

## ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

**Applicant:** ASUSTeK COMPUTER INC.  
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan  
**Product Name:** ASUS Phone (Mobile Phone)  
**Brand Name:** ASUS  
**Model No.:** ASUS\_I003D  
**Model Difference:** N/A  
**Report Number:** ER/2020/30083  
**FCC ID** MSQI003D  
**IC:** 3568A-I003D  
**FCC Rule Part:** 2, 22H & 24E & 27 C & 90S  
**ISED Rule:** RSS-130, 132, 133, 139, 195, 199  
**Issue Date:** Sep. 04, 2020  
**Date of Test:** Jun. 01, 2020 ~ Jul. 21, 2020  
**Date of EUT Received:** May 06, 2020

**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 tested as described in this report is in compliance with conducted and radiated emission limits.

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

**Approved By:**

Jazz Huang

**Jazz Huang / Asst. Supervisor**



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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## Revision History

| Report Number | Revision | Description | Issue Date    | Remark                    |
|---------------|----------|-------------|---------------|---------------------------|
| ER/2020/30083 | Rev.00   | Original.   | Sep. 04, 2020 | Revised By: Violetta Tang |
|               |          |             |               |                           |

**Note:**

## 1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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# 1 GENERAL PRODUCT INFORMATION

## 1.1 Product Description

General:

|                   |                                                                                                                                                                            |                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Product Name:     | ASUS Phone (Mobile Phone)                                                                                                                                                  |                                            |
| Brand Name:       | ASUS                                                                                                                                                                       |                                            |
| Model No.:        | ASUS_I003D                                                                                                                                                                 |                                            |
| Model Difference: | N/A                                                                                                                                                                        |                                            |
| Hardware Version: | R2.0B                                                                                                                                                                      |                                            |
| Software Version: | Android Q                                                                                                                                                                  |                                            |
| AJ Dongle:        | Model No.: F370002, Supplier: MEILU                                                                                                                                        |                                            |
| Fan Dongle:       | Model No.: I003, Supplier: ASUS                                                                                                                                            |                                            |
| USB Cable:        | Model No.: LA9U2015-CS-R, Supplier: ASAP                                                                                                                                   |                                            |
| Power Supply:     | 3.85Vdc from Rechargeable Li-polymer Battery<br>or 5V / 9V / 12V / 15V / 20V from AC/DC Adapter                                                                            |                                            |
|                   | Battery:                                                                                                                                                                   | Model No.: C11P1903, Supplier: SCUD        |
|                   | Adapter:                                                                                                                                                                   | Model No.: A299-200150U-US, Supplier: AOHA |
| IMEI:             | 355306110093475 / 355306110093483 (2/3G Conducted)<br>355306110093970 / 355306110093988 (4G Conducted)<br>355306110093731 (2/3G Radiated)<br>355306110094390 (4G Radiated) |                                            |

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## 1.2 Operation Frequency Range

| Operating Frequency (MHz) |                 |
|---------------------------|-----------------|
| GSM/GPRS/EDGE 850         | 824.2 - 848.8   |
| GSM/GPRS/EDGE 1900        | 1850.2 - 1909.8 |
| WCDMA / HSPA+ Band II     | 1852.4 - 1907.6 |
| WCDMA / HSPA+ Band IV     | 1712.4 - 1752.6 |
| WCDMA / HSPA+ Band V      | 826.4 - 846.6   |

| LTE Band | BW (MHz) | Operation Frequency (MHz) | LTE Band  | BW (MHz) | Operation Frequency (MHz) |
|----------|----------|---------------------------|-----------|----------|---------------------------|
| 2        | 1.4      | 1850.7 - 1909.3           | 25        | 1.4      | 1850.7 - 1914.3           |
|          | 3        | 1851.5 - 1908.5           |           | 3        | 1851.5 - 1913.5           |
|          | 5        | 1852.5 - 1907.5           |           | 5        | 1852.5 - 1912.5           |
|          | 10       | 1855.0 - 1905.0           |           | 10       | 1855.0 - 1910.0           |
|          | 15       | 1857.5 - 1902.5           |           | 15       | 1857.5 - 1907.5           |
|          | 20       | 1860.0 - 1900.0           |           | 20       | 1860.0 - 1905.0           |
| 4        | 1.4      | 1710.7 - 1754.3           | 26        | 1.4      | 824.7 - 848.3             |
|          | 3        | 1711.5 - 1753.5           |           | 3        | 825.5 - 847.5             |
|          | 5        | 1712.5 - 1752.5           |           | 5        | 826.5 - 846.5             |
|          | 10       | 1715.0 - 1750.0           |           | 10       | 829.0 - 844.0             |
|          | 15       | 1717.5 - 1747.5           |           | 15       | 831.5 - 841.5             |
|          | 20       | 1720.0 - 1745.0           |           | 15       | 831.5 - 841.5             |
| 5        | 1.4      | 824.7 - 848.3             | 26 Part90 | 1.4      | 814.7 - 823.3             |
|          | 3        | 825.5 - 847.5             |           | 3        | 815.5 - 822.5             |
|          | 5        | 826.5 - 846.5             |           | 5        | 816.5 - 821.5             |
|          | 10       | 829.0 - 844.0             |           | 10       | 819.0                     |
| 7        | 5        | 2502.5 - 2567.5           | 30        | 5        | 2307.5 - 2312.5           |
|          | 10       | 2505.0 - 2565.0           |           | 10       | 2310.0                    |
|          | 15       | 2507.5 - 2562.5           | 38        | 5        | 2572.5 - 2617.5           |
|          | 20       | 2510.0 - 2560.0           |           | 10       | 2575.0 - 2615.0           |
| 12       | 1.4      | 699.7 - 715.3             |           | 15       | 2577.5 - 2612.5           |
|          | 3        | 700.5 - 714.5             |           | 20       | 2580.0 - 2610.0           |
|          | 5        | 701.5 - 713.5             | 41        | 5        | 2498.5 - 2687.5           |
|          | 10       | 704.0 - 711.0             |           | 10       | 2501.0 - 2685.0           |
| 13       | 5        | 779.5 - 784.5             |           | 15       | 2503.5 - 2682.5           |
|          | 10       | 782                       |           | 20       | 2506.0 - 2680.0           |
| 17       | 5        | 706.5 - 713.5             |           |          |                           |
|          | 10       | 709 - 711                 |           |          |                           |

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

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| LTE Band | BW (MHz) | Operation Frequency (MHz) | LTE Band | BW (MHz) | Operation Frequency (MHz) |
|----------|----------|---------------------------|----------|----------|---------------------------|
| 66       | 1.4      | 1710.7 - 1779.3           | 71       | 5        | 665.5 - 695.5             |
|          | 3        | 1711.5 - 1778.5           |          | 10       | 688.0 - 693.0             |
|          | 5        | 1712.5 - 1777.5           |          | 15       | 670.5 - 690.5             |
|          | 10       | 1715.0 - 1775.0           |          | 20       | 673.0 - 688.0             |
|          | 15       | 1717.5 - 1772.5           |          |          |                           |
|          | 20       | 1720.0 - 1770.0           |          |          |                           |

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### 1.3 Antenna Designation

| Antenna Type                                                                                                                     | Antenna Model No. |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------|
| PIFA                                                                                                                             | Ant0              |
|                                                                                                                                  | Ant1              |
|                                                                                                                                  | Ant2              |
| Note: The EUT equipped with 7 WWAN antenna, however, transmission of 2G / 3G / 4GLTE bands are available by Ant0, Ant1 and Ant2. |                   |

| Operating Frequency (MHz) |                 | Ant 0 Peak Gain (dBi) | Ant 1 Peak Gain (dBi) | Ant 2 Peak Gain (dBi) |
|---------------------------|-----------------|-----------------------|-----------------------|-----------------------|
| GSM / GPRS / EDGE 850     | 824.2 ~ 848.8   | -1.8                  | N/A                   | -2.2                  |
| GSM / GPRS / EDGE 1900    | 1850.2 ~ 1909.8 | N/A                   | -1.0                  | N/A                   |
| WCDMA / HSPA Band II      | 1852.4 ~ 1907.6 | N/A                   | -1.0                  | N/A                   |
| WCDMA / HSPA Band IV      | 1712.4 ~ 1752.6 | N/A                   | 0.7                   | N/A                   |
| WCDMA / HSPA Band V       | 826.4 ~ 846.6   | -1.8                  | N/A                   | -2.2                  |
| LTE-Band 2                | 1850.7 ~ 1909.3 | N/A                   | -1.0                  | N/A                   |
| LTE-Band 4                | 1710.7 ~ 1754.3 | N/A                   | 0.7                   | N/A                   |
| LTE-Band 5                | 824.7 ~ 848.3   | -1.8                  | N/A                   | -2.2                  |
| LTE-Band 7                | 2502.5 ~ 2567.5 | N/A                   | -0.5                  | N/A                   |
| LTE-Band 12               | 699.7 ~ 715.3   | -3.8                  | N/A                   | -5.3                  |
| LTE-Band 13               | 779.5 ~ 784.5   | -1.6                  | N/A                   | -3.4                  |
| LTE-Band 17               | 706.5 ~ 713.5   | -3.9                  | N/A                   | -5.3                  |
| LTE-Band 25               | 1850.7 ~ 1914.3 | N/A                   | -0.7                  | N/A                   |
| LTE-Band 26               | 824.7 ~ 848.3   | -1.1                  | N/A                   | -2.2                  |
| LTE-Band 26 Part 90       | 814.7 ~ 823.3   | -1.1                  | N/A                   | -2.2                  |
| LTE-Band 30               | 2307.5 ~ 2312.5 | N/A                   | -2.7                  | N/A                   |
| LTE-Band 38               | 2572.5 ~ 2617.5 | N/A                   | -2.3                  | N/A                   |
| LTE-Band 41               | 2498.5 ~ 2687.5 | N/A                   | -3.0                  | N/A                   |
| LTE-Band 66               | 1710.7 ~ 1779.3 | N/A                   | -1.1                  | N/A                   |
| LTE-Band 71               | 665.5 ~ 695.5   | -4.0                  | N/A                   | -6.2                  |

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

|               | ERP / EIRP (dBm) |      | W     | 99%    | Type of Emission |
|---------------|------------------|------|-------|--------|------------------|
| GSM 850       | 28.47            | ERP  | 0.703 | 0.2472 | 247KGXW          |
| GPRS 850      | 28.53            | ERP  | 0.713 | 0.2451 | 245KGXW          |
| EDGE 850      | 22.77            | ERP  | 0.189 | 0.2463 | 246KG7W          |
| GSM 1900      | 29.50            | EIRP | 0.891 | 0.2457 | 246KGXW          |
| GPRS 1900     | 29.55            | EIRP | 0.902 | 0.2459 | 246KGXW          |
| EDGE 1900     | 24.84            | EIRP | 0.305 | 0.2452 | 245KG7W          |
|               | ERP / EIRP (dBm) |      | W     | 99%    | Type of Emission |
| WCDMA Band II | 22.11            | EIRP | 0.163 | 4.1438 | 4M14F9W          |
| HSDPA Band II | 21.17            | EIRP | 0.131 | 4.1409 | 4M14F9W          |
| HSUPA Band II | 21.18            | EIRP | 0.131 | 4.1406 | 4M14F9W          |
| WCDMA Band IV | 23.67            | EIRP | 0.233 | 4.1424 | 4M14F9W          |
| HSDPA Band IV | 22.69            | EIRP | 0.186 | 4.1497 | 4M15F9W          |
| HSUPA Band IV | 22.74            | EIRP | 0.188 | 4.1328 | 4M13F9W          |
| WCDMA Band V  | 19.23            | ERP  | 0.084 | 4.1474 | 4M15F9W          |
| HSDPA Band V  | 19.16            | ERP  | 0.082 | 4.1341 | 4M13F9W          |
| HSUPA Band V  | 18.20            | ERP  | 0.066 | 4.1416 | 4M14F9W          |

| LTE Band | BW  | Modulation | ERP / EIRP (dBm) |      | (W)   | 99%    | Type of Emission |
|----------|-----|------------|------------------|------|-------|--------|------------------|
| 2        | 1.4 | QPSK       | 22.57            | EIRP | 0.181 | 1.0956 | 1M10G7D          |
|          |     | 16QAM      | 22.09            | EIRP | 0.162 | 1.0999 | 1M10D7W          |
|          |     | 64QAM      | 21.50            | EIRP | 0.141 | 1.0962 | 1M10D7W          |
|          |     | 256QAM     | 18.49            | EIRP | 0.071 | 1.0892 | 1M09D7W          |
| 2        | 3   | QPSK       | 22.31            | EIRP | 0.170 | 2.6935 | 2M69G7D          |
|          |     | 16QAM      | 21.88            | EIRP | 0.154 | 2.7117 | 2M71D7W          |
|          |     | 64QAM      | 21.49            | EIRP | 0.141 | 2.7038 | 2M70D7W          |
|          |     | 256QAM     | 18.49            | EIRP | 0.071 | 2.7047 | 2M70D7W          |
| 2        | 5   | QPSK       | 22.39            | EIRP | 0.173 | 4.4939 | 4M49G7D          |
|          |     | 16QAM      | 21.97            | EIRP | 0.157 | 4.4902 | 4M49D7W          |
|          |     | 64QAM      | 21.49            | EIRP | 0.141 | 4.5039 | 4M50D7W          |
|          |     | 256QAM     | 18.49            | EIRP | 0.071 | 4.4868 | 4M49D7W          |
| 2        | 10  | QPSK       | 22.51            | EIRP | 0.178 | 9.0053 | 9M01G7D          |
|          |     | 16QAM      | 22.00            | EIRP | 0.158 | 8.9633 | 8M96D7W          |
|          |     | 64QAM      | 21.48            | EIRP | 0.141 | 8.9975 | 9M00D7W          |
|          |     | 256QAM     | 18.49            | EIRP | 0.071 | 8.9716 | 8M97D7W          |
| 2        | 15  | QPSK       | 22.58            | EIRP | 0.181 | 13.501 | 13M5G7D          |
|          |     | 16QAM      | 22.03            | EIRP | 0.160 | 13.475 | 13M5D7W          |
|          |     | 64QAM      | 21.49            | EIRP | 0.141 | 13.479 | 13M5D7W          |
|          |     | 256QAM     | 18.49            | EIRP | 0.071 | 13.462 | 13M5D7W          |
| 2        | 20  | QPSK       | 22.59            | EIRP | 0.182 | 17.947 | 17M9G7D          |
|          |     | 16QAM      | 22.10            | EIRP | 0.162 | 17.968 | 18M0D7W          |
|          |     | 64QAM      | 21.49            | EIRP | 0.141 | 17.939 | 17M9D7W          |
|          |     | 256QAM     | 18.48            | EIRP | 0.070 | 17.933 | 17M9D7W          |
| LTE Band | BW  | Modulation | ERP / EIRP (dBm) |      | (W)   | 99%    | Type of Emission |
| 4        | 1.4 | QPSK       | 24.04            | EIRP | 0.254 | 1.0958 | 1M10G7D          |
|          |     | 16QAM      | 23.36            | EIRP | 0.217 | 1.1001 | 1M10D7W          |
|          |     | 64QAM      | 23.19            | EIRP | 0.208 | 4.5039 | 4M50D7W          |
|          |     | 256QAM     | 20.17            | EIRP | 0.104 | 1.0893 | 1M09D7W          |
| 4        | 3   | QPSK       | 23.62            | EIRP | 0.230 | 2.6984 | 2M70G7D          |
|          |     | 16QAM      | 23.45            | EIRP | 0.221 | 2.6989 | 2M70D7W          |
|          |     | 64QAM      | 23.20            | EIRP | 0.209 | 2.7024 | 2M70D7W          |
|          |     | 256QAM     | 20.19            | EIRP | 0.104 | 2.7051 | 2M71D7W          |
| 4        | 5   | QPSK       | 23.76            | EIRP | 0.238 | 4.4941 | 4M49G7D          |
|          |     | 16QAM      | 23.62            | EIRP | 0.230 | 4.4874 | 4M49D7W          |
|          |     | 64QAM      | 23.19            | EIRP | 0.208 | 4.5039 | 4M50D7W          |
|          |     | 256QAM     | 20.19            | EIRP | 0.104 | 4.4871 | 4M49D7W          |
| 4        | 10  | QPSK       | 23.89            | EIRP | 0.245 | 9.0072 | 9M01G7D          |
|          |     | 16QAM      | 23.65            | EIRP | 0.232 | 8.9536 | 8M95D7W          |
|          |     | 64QAM      | 23.19            | EIRP | 0.208 | 8.9994 | 9M00D7W          |
|          |     | 256QAM     | 20.19            | EIRP | 0.104 | 8.9795 | 8M98D7W          |
| 4        | 15  | QPSK       | 23.97            | EIRP | 0.249 | 13.502 | 13M5G7D          |
|          |     | 16QAM      | 23.70            | EIRP | 0.234 | 13.468 | 13M5D7W          |
|          |     | 64QAM      | 23.19            | EIRP | 0.103 | 13.487 | 13M5D7W          |
|          |     | 256QAM     | 20.11            | EIRP | 0.103 | 13.471 | 13M5D7W          |
| 4        | 20  | QPSK       | 24.08            | EIRP | 0.256 | 17.944 | 17M9G7D          |
|          |     | 16QAM      | 23.84            | EIRP | 0.242 | 17.942 | 17M9D7W          |
|          |     | 64QAM      | 23.19            | EIRP | 0.208 | 17.932 | 17M9D7W          |
|          |     | 256QAM     | 20.13            | EIRP | 0.103 | 17.921 | 17M9D7W          |

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| LTE Band | BW  | Modulation | ERP / EIRP (dBm) |      | (W)   | 99%    | Type of Emission |
|----------|-----|------------|------------------|------|-------|--------|------------------|
| 5        | 1.4 | QPSK       | 19.12            | ERP  | 0.082 | 1.0956 | 1M10G7D          |
|          |     | 16QAM      | 18.35            | ERP  | 0.068 | 1.0986 | 1M10D7W          |
|          |     | 64QAM      | 18.53            | ERP  | 0.071 | 1.0964 | 1M10D7W          |
|          |     | 256QAM     | 16.36            | ERP  | 0.043 | 1.0882 | 1M09D7W          |
| 5        | 3   | QPSK       | 18.92            | ERP  | 0.078 | 2.6972 | 2M70G7D          |
|          |     | 16QAM      | 18.59            | ERP  | 0.072 | 2.7131 | 2M71D7W          |
|          |     | 64QAM      | 18.54            | ERP  | 0.071 | 2.7018 | 2M70D7W          |
|          |     | 256QAM     | 16.44            | ERP  | 0.044 | 2.7054 | 2M71D7W          |
| 5        | 5   | QPSK       | 19.06            | ERP  | 0.081 | 4.4917 | 4M49G7D          |
|          |     | 16QAM      | 18.63            | ERP  | 0.073 | 4.4845 | 4M48D7W          |
|          |     | 64QAM      | 18.54            | ERP  | 0.071 | 4.4966 | 4M50D7W          |
|          |     | 256QAM     | 16.52            | ERP  | 0.045 | 4.4882 | 4M49D7W          |
| 5        | 10  | QPSK       | 19.14            | ERP  | 0.082 | 9.0134 | 9M01G7D          |
|          |     | 16QAM      | 18.80            | ERP  | 0.076 | 8.9620 | 8M96D7W          |
|          |     | 64QAM      | 18.54            | ERP  | 0.071 | 8.9981 | 9M00D7W          |
|          |     | 256QAM     | 16.55            | ERP  | 0.045 | 8.9767 | 8M98D7W          |
| LTE Band | BW  | Modulation | ERP / EIRP (dBm) |      | (W)   | 99%    | Type of Emission |
| 7        | 5   | QPSK       | 21.97            | EIRP | 0.157 | 4.4954 | 4M50G7D          |
|          |     | 16QAM      | 21.30            | EIRP | 0.135 | 4.4863 | 4M49D7W          |
|          |     | 64QAM      | 21.00            | EIRP | 0.126 | 4.5048 | 4M50D7W          |
|          |     | 256QAM     | 17.99            | EIRP | 0.063 | 4.4914 | 4M49D7W          |
| 7        | 10  | QPSK       | 22.04            | EIRP | 0.160 | 9.0049 | 9M00G7D          |
|          |     | 16QAM      | 21.25            | EIRP | 0.133 | 8.9692 | 8M97D7W          |
|          |     | 64QAM      | 20.99            | EIRP | 0.126 | 8.9985 | 9M00D7W          |
|          |     | 256QAM     | 17.95            | EIRP | 0.062 | 8.9844 | 8M98D7W          |
| 7        | 15  | QPSK       | 22.14            | EIRP | 0.164 | 13.471 | 13M5G7D          |
|          |     | 16QAM      | 21.44            | EIRP | 0.139 | 13.477 | 13M5D7W          |
|          |     | 64QAM      | 20.99            | EIRP | 0.126 | 13.476 | 13M5D7W          |
|          |     | 256QAM     | 17.98            | EIRP | 0.063 | 13.470 | 13M5D7W          |
| 7        | 20  | QPSK       | 22.21            | EIRP | 0.166 | 17.948 | 17M9G7D          |
|          |     | 16QAM      | 21.60            | EIRP | 0.145 | 17.914 | 17M9D7W          |
|          |     | 64QAM      | 20.99            | EIRP | 0.126 | 17.932 | 17M9D7W          |
|          |     | 256QAM     | 18.00            | EIRP | 0.063 | 17.941 | 17M9D7W          |

| LTE Band | BW  | Modulation | ERP / EIRP (dBm) |     | (W)   | 99%    | Type of Emission |
|----------|-----|------------|------------------|-----|-------|--------|------------------|
| 12       | 1.4 | QPSK       | 16.84            | ERP | 0.048 | 1.0942 | 1M09G7D          |
|          |     | 16QAM      | 16.21            | ERP | 0.042 | 1.0984 | 1M10D7W          |
|          |     | 64QAM      | 16.28            | ERP | 0.042 | 1.0968 | 1M10D7W          |
|          |     | 256QAM     | 15.46            | ERP | 0.035 | 1.0899 | 1M09D7W          |
| 12       | 3   | QPSK       | 16.88            | ERP | 0.049 | 2.6957 | 2M70G7D          |
|          |     | 16QAM      | 16.34            | ERP | 0.043 | 2.7160 | 2M72D7W          |
|          |     | 64QAM      | 16.33            | ERP | 0.043 | 2.7047 | 2M70D7W          |
|          |     | 256QAM     | 13.42            | ERP | 0.022 | 2.7030 | 2M70D7W          |
| 12       | 5   | QPSK       | 16.91            | ERP | 0.049 | 4.4915 | 4M49G7D          |
|          |     | 16QAM      | 16.39            | ERP | 0.044 | 4.4853 | 4M49D7W          |
|          |     | 64QAM      | 16.36            | ERP | 0.043 | 4.4991 | 4M50D7W          |
|          |     | 256QAM     | 13.50            | ERP | 0.022 | 4.4900 | 4M49D7W          |
| 12       | 10  | QPSK       | 16.97            | ERP | 0.050 | 8.9997 | 9M00G7D          |
|          |     | 16QAM      | 16.50            | ERP | 0.045 | 8.9612 | 8M96D7W          |
|          |     | 64QAM      | 16.43            | ERP | 0.044 | 8.9879 | 8M99D7W          |
|          |     | 256QAM     | 13.51            | ERP | 0.022 | 8.9680 | 8M97D7W          |
| LTE Band | BW  | Modulation | ERP / EIRP (dBm) |     | (W)   | 99%    | Type of Emission |
| 13       | 5   | QPSK       | 19.51            | ERP | 0.089 | 4.5003 | 4M50G7D          |
|          |     | 16QAM      | 18.69            | ERP | 0.074 | 4.4973 | 4M50D7W          |
|          |     | 64QAM      | 18.66            | ERP | 0.073 | 4.5040 | 4M50D7W          |
|          |     | 256QAM     | 15.75            | ERP | 0.038 | 4.4934 | 4M49D7W          |
| 13       | 10  | QPSK       | 19.65            | ERP | 0.092 | 8.9649 | 8M96G7D          |
|          |     | 16QAM      | 18.79            | ERP | 0.076 | 8.9345 | 8M93D7W          |
|          |     | 64QAM      | 18.74            | ERP | 0.075 | 8.9687 | 8M97D7W          |
|          |     | 256QAM     | 15.61            | ERP | 0.036 | 8.9291 | 8M93D7W          |
| LTE Band | BW  | Modulation | ERP / EIRP (dBm) |     | (W)   | 99%    | Type of Emission |
| 17       | 5   | QPSK       | 16.79            | ERP | 0.048 | 4.4931 | 4M49G7D          |
|          |     | 16QAM      | 16.20            | ERP | 0.042 | 4.5286 | 4M53D7W          |
|          |     | 64QAM      | 15.96            | ERP | 0.039 | 4.5264 | 4M53D7W          |
|          |     | 256QAM     | 13.40            | ERP | 0.039 | 4.4884 | 4M49D7W          |
| 17       | 10  | QPSK       | 16.99            | ERP | 0.050 | 8.9928 | 8M99G7D          |
|          |     | 16QAM      | 16.54            | ERP | 0.045 | 8.9552 | 8M96D7W          |
|          |     | 64QAM      | 16.45            | ERP | 0.044 | 8.9882 | 8M99D7W          |
|          |     | 256QAM     | 13.42            | ERP | 0.039 | 8.9696 | 8M97D7W          |

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| LTE Band | BW  | Modulation | ERP / EIRP (dBm)     |      | (W)   | 99%    | Type of Emission |
|----------|-----|------------|----------------------|------|-------|--------|------------------|
| 25       | 1.4 | QPSK       | 22.35                | EIRP | 0.172 | 1.0961 | 1M10G7D          |
|          |     | 16QAM      | 22.10                | EIRP | 0.162 | 1.1013 | 1M10D7W          |
|          |     | 64QAM      | 21.47                | EIRP | 0.140 | 1.0947 | 1M09D7W          |
|          |     | 256QAM     | 18.51                | EIRP | 0.071 | 1.0885 | 1M09D7W          |
| 25       | 3   | QPSK       | 22.49                | EIRP | 0.177 | 2.6942 | 2M69G7D          |
|          |     | 16QAM      | 22.26                | EIRP | 0.168 | 2.7145 | 2M71D7W          |
|          |     | 64QAM      | 21.65                | EIRP | 0.146 | 2.7055 | 2M71D7W          |
|          |     | 256QAM     | 18.50                | EIRP | 0.071 | 2.7042 | 2M70D7W          |
| 25       | 5   | QPSK       | 22.62                | EIRP | 0.183 | 4.4933 | 4M49G7D          |
|          |     | 16QAM      | 22.37                | EIRP | 0.173 | 4.4867 | 4M49D7W          |
|          |     | 64QAM      | 21.76                | EIRP | 0.150 | 4.5039 | 4M50D7W          |
|          |     | 256QAM     | 18.59                | EIRP | 0.072 | 4.4876 | 4M49D7W          |
| 25       | 10  | QPSK       | 22.69                | EIRP | 0.186 | 8.9998 | 9M00G7D          |
|          |     | 16QAM      | 22.37                | EIRP | 0.173 | 8.9643 | 8M96D7W          |
|          |     | 64QAM      | 21.78                | EIRP | 0.151 | 8.9894 | 8M99D7W          |
|          |     | 256QAM     | 18.68                | EIRP | 0.074 | 8.9748 | 8M97D7W          |
| 25       | 15  | QPSK       | 22.71                | EIRP | 0.187 | 13.470 | 13M5G7D          |
|          |     | 16QAM      | 22.37                | EIRP | 0.173 | 13.473 | 13M5D7W          |
|          |     | 64QAM      | 21.79                | EIRP | 0.151 | 13.484 | 13M5D7W          |
|          |     | 256QAM     | 18.68                | EIRP | 0.074 | 13.447 | 13M4D7W          |
| 25       | 20  | QPSK       | 22.88                | EIRP | 0.194 | 17.953 | 18M0G7D          |
|          |     | 16QAM      | 22.40                | EIRP | 0.174 | 17.929 | 17M9D7W          |
|          |     | 64QAM      | 21.79                | EIRP | 0.151 | 17.938 | 17M9D7W          |
|          |     | 256QAM     | 18.79                | EIRP | 0.076 | 17.944 | 17M9D7W          |
| LTE Band | BW  | Modulation | ERP / EIRP (dBm)     |      | (W)   | 99%    | Type of Emission |
| 26       | 1.4 | QPSK       | 19.91                | ERP  | 0.098 | 1.0944 | 1M09G7D          |
|          |     | 16QAM      | 18.95                | ERP  | 0.079 | 1.0992 | 1M10D7W          |
|          |     | 64QAM      | 18.55                | ERP  | 0.072 | 1.0979 | 1M10D7W          |
|          |     | 256QAM     | 15.73                | ERP  | 0.037 | 1.0893 | 1M09D7W          |
| 26       | 3   | QPSK       | 20.00                | ERP  | 0.100 | 2.6962 | 2M70G7D          |
|          |     | 16QAM      | 18.83                | ERP  | 0.076 | 2.7132 | 2M71D7W          |
|          |     | 64QAM      | 18.67                | ERP  | 0.074 | 2.7035 | 2M70D7W          |
|          |     | 256QAM     | 15.82                | ERP  | 0.038 | 2.7025 | 2M70D7W          |
| 26       | 5   | QPSK       | 20.00                | ERP  | 0.100 | 4.4915 | 4M49G7D          |
|          |     | 16QAM      | 19.25                | ERP  | 0.084 | 4.4872 | 4M49D7W          |
|          |     | 64QAM      | 18.79                | ERP  | 0.076 | 4.5008 | 4M50D7W          |
|          |     | 256QAM     | 15.97                | ERP  | 0.040 | 4.4859 | 4M49D7W          |
| 26       | 10  | QPSK       | 20.18                | ERP  | 0.104 | 9.0138 | 9M01G7D          |
|          |     | 16QAM      | 19.37                | ERP  | 0.086 | 8.9578 | 8M96D7W          |
|          |     | 64QAM      | 18.91                | ERP  | 0.078 | 8.9966 | 9M00D7W          |
|          |     | 256QAM     | 16.12                | ERP  | 0.041 | 8.9746 | 8M97D7W          |
| 26       | 15  | QPSK       | 20.28                | ERP  | 0.107 | 13.483 | 13M5G7D          |
|          |     | 16QAM      | 19.18                | ERP  | 0.083 | 13.457 | 13M5D7W          |
|          |     | 64QAM      | 19.05                | ERP  | 0.080 | 13.463 | 13M5D7W          |
|          |     | 256QAM     | 16.17                | ERP  | 0.041 | 13.466 | 13M5D7W          |
| LTE Band | BW  | Modulation | ERP / EIRP (dBm)     |      | (W)   | 99%    | Type of Emission |
| 26       | 1.4 | QPSK       | 20.03                | ERP  | 0.101 | 1.0948 | 1M09G7D          |
|          |     | 16QAM      | 19.03                | ERP  | 0.080 | 1.0997 | 1M10D7W          |
|          |     | 64QAM      | 18.83                | ERP  | 0.076 | 1.0964 | 1M10D7W          |
|          |     | 256QAM     | 15.82                | ERP  | 0.038 | 1.0896 | 1M09D7W          |
| 26       | 3   | QPSK       | 20.09                | ERP  | 0.102 | 2.6976 | 2M70G7D          |
|          |     | 16QAM      | 19.40                | ERP  | 0.087 | 2.7094 | 2M71D7W          |
|          |     | 64QAM      | 19.00                | ERP  | 0.079 | 2.7015 | 2M70D7W          |
|          |     | 256QAM     | 15.88                | ERP  | 0.039 | 2.7048 | 2M70D7W          |
| 26       | 5   | QPSK       | 20.14                | ERP  | 0.103 | 4.4919 | 4M49G7D          |
|          |     | 16QAM      | 19.34                | ERP  | 0.086 | 4.4882 | 4M49D7W          |
|          |     | 64QAM      | 19.05                | ERP  | 0.080 | 4.5023 | 4M50D7W          |
|          |     | 256QAM     | 15.98                | ERP  | 0.040 | 4.4856 | 4M49D7W          |
| 26       | 10  | QPSK       | 20.13                | ERP  | 0.103 | 8.9722 | 8M97G7D          |
|          |     | 16QAM      | 19.38                | ERP  | 0.087 | 8.9951 | 9M00D7W          |
|          |     | 64QAM      | 17.65                | ERP  | 0.058 | 8.9448 | 8M94D7W          |
|          |     | 256QAM     | 15.29                | ERP  | 0.034 | 8.9581 | 8M96D7W          |
| LTE Band | BW  | Modulation | ERP / EIRP (dBm/MHz) |      | (W)   | 99%    | Type of Emission |
| 30       | 5   | QPSK       | 20.77                | EIRP | 0.119 | 4.4977 | 4M50G7D          |
|          |     | 16QAM      | 19.80                | EIRP | 0.095 | 4.4934 | 4M49D7W          |
|          |     | 64QAM      | 18.80                | EIRP | 0.076 | 4.5019 | 4M50D7W          |
|          |     | 256QAM     | 15.69                | EIRP | 0.037 | 4.4892 | 4M49D7W          |
| 30       | 10  | QPSK       | 20.65                | EIRP | 0.116 | 8.9975 | 9M00G7D          |
|          |     | 16QAM      | 19.79                | EIRP | 0.095 | 8.9521 | 8M95D7W          |
|          |     | 64QAM      | 18.79                | EIRP | 0.076 | 8.9873 | 8M99D7W          |
|          |     | 256QAM     | 15.64                | EIRP | 0.037 | 8.9576 | 8M96D7W          |
| LTE Band | BW  | Modulation | ERP / EIRP (dBm)     |      | (W)   | 99%    | Type of Emission |
| 38       | 5   | QPSK       | 21.39                | EIRP | 0.138 | 4.5048 | 4M50G7D          |
|          |     | 16QAM      | 20.37                | EIRP | 0.109 | 4.5204 | 4M52D7W          |
|          |     | 64QAM      | 20.20                | EIRP | 0.105 | 4.5074 | 4M51D7W          |
|          |     | 256QAM     | 17.01                | EIRP | 0.105 | 4.4792 | 4M48D7W          |
| 38       | 10  | QPSK       | 21.41                | EIRP | 0.138 | 8.9818 | 8M98G7D          |
|          |     | 16QAM      | 20.41                | EIRP | 0.110 | 8.9781 | 8M98D7W          |
|          |     | 64QAM      | 20.19                | EIRP | 0.104 | 8.9794 | 8M98D7W          |
|          |     | 256QAM     | 17.08                | EIRP | 0.104 | 8.9719 | 8M97D7W          |
| 38       | 15  | QPSK       | 21.41                | EIRP | 0.138 | 13.475 | 13M5G7D          |
|          |     | 16QAM      | 20.46                | EIRP | 0.111 | 13.490 | 13M5D7W          |
|          |     | 64QAM      | 20.19                | EIRP | 0.104 | 13.482 | 13M5D7W          |
|          |     | 256QAM     | 17.19                | EIRP | 0.104 | 13.469 | 13M5D7W          |
| 38       | 20  | QPSK       | 21.41                | EIRP | 0.138 | 17.935 | 17M9G7D          |
|          |     | 16QAM      | 20.53                | EIRP | 0.113 | 17.904 | 17M9D7W          |
|          |     | 64QAM      | 20.18                | EIRP | 0.104 | 17.909 | 17M9D7W          |
|          |     | 256QAM     | 17.20                | EIRP | 0.104 | 17.906 | 17M9D7W          |

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| LTE Band | BW  | Modulation | ERP / EIRP (dBm) |      | (W)   | 99%    | Type of Emission |
|----------|-----|------------|------------------|------|-------|--------|------------------|
| 41       | 5   | QPSK       | 20.59            | EIRP | 0.115 | 4.4955 | 4M50G7D          |
|          |     | 16QAM      | 19.50            | EIRP | 0.089 | 4.4942 | 4M49D7W          |
|          |     | 64QAM      | 19.48            | EIRP | 0.089 | 4.5145 | 4M51D7W          |
|          |     | 256QAM     | 16.48            | EIRP | 0.044 | 4.4756 | 4M48D7W          |
| 41       | 10  | QPSK       | 20.59            | EIRP | 0.115 | 8.9768 | 8M98G7D          |
|          |     | 16QAM      | 19.60            | EIRP | 0.091 | 8.9635 | 8M96D7W          |
|          |     | 64QAM      | 19.49            | EIRP | 0.089 | 8.9831 | 8M98D7W          |
|          |     | 256QAM     | 16.49            | EIRP | 0.045 | 8.9736 | 8M97D7W          |
| 41       | 15  | QPSK       | 20.66            | EIRP | 0.116 | 13.489 | 13M5G7D          |
|          |     | 16QAM      | 19.60            | EIRP | 0.091 | 13.476 | 13M5D7W          |
|          |     | 64QAM      | 19.49            | EIRP | 0.089 | 13.496 | 13M5D7W          |
|          |     | 256QAM     | 16.49            | EIRP | 0.045 | 13.476 | 13M5D7W          |
| 41       | 20  | QPSK       | 20.72            | EIRP | 0.118 | 17.932 | 17M9G7D          |
|          |     | 16QAM      | 19.63            | EIRP | 0.092 | 17.889 | 17M9D7W          |
|          |     | 64QAM      | 19.48            | EIRP | 0.089 | 17.894 | 17M9D7W          |
|          |     | 256QAM     | 16.46            | EIRP | 0.044 | 17.900 | 17M9D7W          |
| LTE Band | BW  | Modulation | ERP / EIRP (dBm) |      | (W)   | 99%    | Type of Emission |
| 66       | 1.4 | QPSK       | 22.14            | EIRP | 0.164 | 1.0959 | 1M10G7D          |
|          |     | 16QAM      | 21.33            | EIRP | 0.136 | 1.1009 | 1M10D7W          |
|          |     | 64QAM      | 21.26            | EIRP | 0.134 | 1.0964 | 1M10D7W          |
|          |     | 256QAM     | 18.38            | EIRP | 0.069 | 1.0896 | 1M09D7W          |
| 66       | 3   | QPSK       | 22.19            | EIRP | 0.166 | 2.6965 | 2M70G7D          |
|          |     | 16QAM      | 21.48            | EIRP | 0.141 | 2.7158 | 2M72D7W          |
|          |     | 64QAM      | 21.40            | EIRP | 0.138 | 2.7038 | 2M70D7W          |
|          |     | 256QAM     | 18.34            | EIRP | 0.068 | 2.7034 | 2M70D7W          |
| 66       | 5   | QPSK       | 22.31            | EIRP | 0.170 | 4.4911 | 4M49G7D          |
|          |     | 16QAM      | 21.50            | EIRP | 0.141 | 4.4877 | 4M49D7W          |
|          |     | 64QAM      | 21.39            | EIRP | 0.138 | 4.5011 | 4M50D7W          |
|          |     | 256QAM     | 18.39            | EIRP | 0.069 | 4.4885 | 4M49D7W          |
| 66       | 10  | QPSK       | 22.35            | EIRP | 0.172 | 9.0112 | 9M01G7D          |
|          |     | 16QAM      | 21.55            | EIRP | 0.143 | 8.9574 | 8M96D7W          |
|          |     | 64QAM      | 21.39            | EIRP | 0.138 | 8.9843 | 8M98D7W          |
|          |     | 256QAM     | 18.35            | EIRP | 0.068 | 8.9684 | 8M97D7W          |
| 66       | 15  | QPSK       | 22.44            | EIRP | 0.175 | 13.468 | 13M5G7D          |
|          |     | 16QAM      | 21.62            | EIRP | 0.145 | 13.474 | 13M5D7W          |
|          |     | 64QAM      | 21.40            | EIRP | 0.138 | 13.472 | 13M5D7W          |
|          |     | 256QAM     | 18.40            | EIRP | 0.069 | 13.457 | 13M5D7W          |
| 66       | 20  | QPSK       | 22.47            | EIRP | 0.177 | 17.936 | 17M9G7D          |
|          |     | 16QAM      | 21.67            | EIRP | 0.147 | 17.929 | 17M9D7W          |
|          |     | 64QAM      | 21.39            | EIRP | 0.138 | 17.947 | 17M9D7W          |
|          |     | 256QAM     | 18.34            | EIRP | 0.068 | 17.925 | 17M9D7W          |

| LTE Band | BW | Modulation | ERP / EIRP (dBm) |     | (W)   | 99%    | Type of Emission |
|----------|----|------------|------------------|-----|-------|--------|------------------|
| 71       | 5  | QPSK       | 17.40            | ERP | 0.055 | 4.4922 | 4M49G7D          |
|          |    | 16QAM      | 16.40            | ERP | 0.044 | 4.4870 | 4M49D7W          |
|          |    | 64QAM      | 16.28            | ERP | 0.042 | 4.5000 | 4M50D7W          |
|          |    | 256QAM     | 13.33            | ERP | 0.022 | 4.4908 | 4M49D7W          |
| 71       | 10 | QPSK       | 17.50            | ERP | 0.056 | 9.0063 | 9M01G7D          |
|          |    | 16QAM      | 16.41            | ERP | 0.044 | 8.9652 | 8M97D7W          |
|          |    | 64QAM      | 16.29            | ERP | 0.043 | 8.9868 | 8M99D7W          |
|          |    | 256QAM     | 13.32            | ERP | 0.021 | 8.9643 | 8M96D7W          |
| 71       | 15 | QPSK       | 17.54            | ERP | 0.057 | 13.494 | 13M5G7D          |
|          |    | 16QAM      | 16.44            | ERP | 0.044 | 13.495 | 13M5D7W          |
|          |    | 64QAM      | 16.35            | ERP | 0.043 | 13.467 | 13M5D7W          |
|          |    | 256QAM     | 13.30            | ERP | 0.021 | 13.477 | 13M5D7W          |
| 71       | 20 | QPSK       | 17.60            | ERP | 0.058 | 17.927 | 17M9G7D          |
|          |    | 16QAM      | 16.56            | ERP | 0.045 | 17.914 | 17M9D7W          |
|          |    | 64QAM      | 16.34            | ERP | 0.043 | 17.921 | 17M9D7W          |
|          |    | 256QAM     | 13.35            | ERP | 0.022 | 17.912 | 17M9D7W          |

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## 1.5 Test Methodology of Applied Standards

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

ISED RSS-130 Issue 2 Feb. 2019,

ISED RSS-132 Issue 3 Jan. 2013

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018

ISED RSS-139 Issue 3 July 16, 2015

ISED RSS-195 Issue 2 Apr. 24, 2014

ISED RSS-199 Issue 3 Dec. 2016

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

KDB412172 D01 Determining ERP and EIRP v01r01

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

## 1.6 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0027

ISED CAB identifier: TW3702

## 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\*9m\*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 hand-held 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 according to the requirements in Section 8 and 13.

### 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. Following shows an offset computation in physical test.

|                         | RF cable loss (dB) | Attenuation factor(dB) | offset(dB) |
|-------------------------|--------------------|------------------------|------------|
| Low Band (Below 1GHz)   | 3.8                | 10                     | 13.8       |
| High Band (Above 1 GHz) | 4.4                | 10                     | 14.4       |

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## 2.5 Final Amplifier Voltage and Current Information:

| Test Mode              | DC voltage (V) | DC current (mA) |
|------------------------|----------------|-----------------|
| GSM 850                | 3.85           | 428             |
| GSM 1900               |                | 422             |
| WCDMA B2               |                | 417             |
| WCDMA B4               |                | 402             |
| WCDMA B5               |                | 408             |
| LTE Band 2             |                | 580             |
| LTE Band 4             |                | 589             |
| LTE Band 5             |                | 587             |
| LTE Band 7             |                | 581             |
| LTE Band 12            |                | 595             |
| LTE Band 13            |                | 584             |
| LTE Band 17            |                | 591             |
| LTE Band 25            |                | 595             |
| LTE Band 26            |                | 589             |
| LTE Band 26 (Part 90S) |                | 568             |
| LTE Band 30            |                | 445             |
| LTE Band 38            |                | 599             |
| LTE Band 41            |                | 595             |
| LTE Band 66            |                | 583             |
| LTE Band 71            |                | 591             |

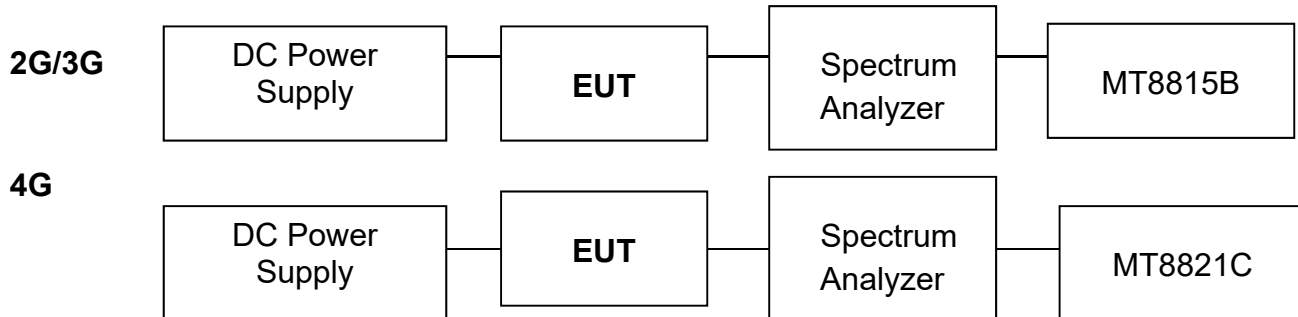
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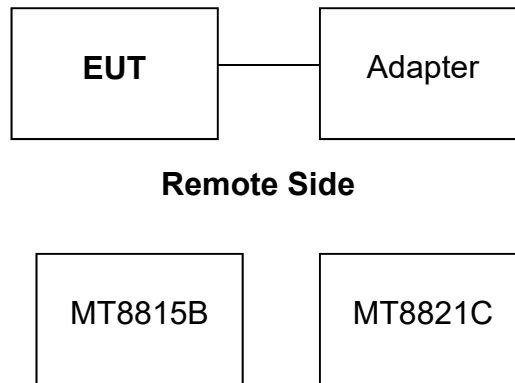
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## 2.6 Configuration of Tested System

**Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)**



**Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)**



**Table 2-1 Equipment Used in**

| Item | Equipment                    | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord  |
|------|------------------------------|-----------|----------------|------------|------------|-------------|
| 1.   | Radio Communication Analyzer | Anritsu   | MT8815B        | 6200711454 | shielded   | Un-shielded |
| 2.   | Radio Communication Analyzer | Anritsu   | MT8821C        | 6261786084 | shielded   | Un-shielded |

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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)(10)<br>§27.50(a)(3)<br>§27.50(c)(10)<br>§27.50(d)(4)<br>§27.50(h)(2)<br>§90.635       | RSS-130 §4.6    RSS-132 §5.4<br>RSS-133 §6.4    RSS-139 §6.5<br>RSS-195 §5.5    RSS-199 §4.4                  | 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>§27.53(c)(2),(4)<br>§27.53(a)<br>§27.53(g)<br>§27.53(h)<br>§27.53(m)(4)(6)<br>§90.691   | RSS-GEN §6.13<br>RSS-130 §4.7    RSS-132 §5.5<br>RSS-133 §6.5    RSS-139 §6.6<br>RSS-195 §5.6    RSS-199 §4.5 | 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(a)<br>§27.53(c)(f)<br>§27.53(g)<br>§27.53(h)<br>§27.53(m)(4)<br>§90.691(a)(1)(2) | RSS-GEN §6.13<br>RSS-130 §4.7    RSS-132 §5.5<br>RSS-133 §6.5    RSS-139 §6.6<br>RSS-195 §5.6    RSS-199 §4.5 | Field Strength of Spurious Radiation                                                  | Compliant |
| §24.232(d)<br>§27.50(B)                                                                                                        | RSS-130 §4.6.1    RSS-132 §5.4<br>RSS-133 §6.4    RSS-139 §6.4<br>RSS-195 §5.5    RSS-199 §4.4                | Peak to Average Ratio                                                                 | Compliant |
| §2.1055(a)(1)<br>§22.355<br>§24.235<br>§27.54<br>§90.213                                                                       | RSS-130 §4.5    RSS-132 §5.3<br>RSS-133 §6.3    RSS-139 §6.5<br>RSS-195 §5.4    RSS-199 §4.3                  | Frequency Stability                                                                   | Compliant |

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## 4 DESCRIPTION OF TEST MODES

### 4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Transmissions of each frequency bands are available by 4 antennas below, only one antenna can be enabled at any given time by each band, the EUT does not support MIMO mode.
3. Evaluation has been done on Upper and Lower antenna, the Lower antenna results higher EIRP and Emissions, therefore, only measurement results of the Lower antenna are demonstrated in this test report.

| Mode              | Bands             | Upper Antenna | Lower Antenna |
|-------------------|-------------------|---------------|---------------|
| GSM / GPRS / EDGE | 850               | 2             | 0             |
|                   | 1900              | N/A           | 1             |
| WDCMA / HSPA      | Band II           | N/A           | 1             |
|                   | Band IV           | N/A           | 1             |
|                   | Band V            | 2             | 0             |
| LTE               | Band 2            | N/A           | 1             |
|                   | Band 4            | N/A           | 1             |
|                   | Band 5            | 2             | 0             |
|                   | Band 7            | N/A           | 1             |
|                   | Band 12           | 2             | 0             |
|                   | Band 13           | 2             | 0             |
|                   | Band 17           | 2             | 0             |
|                   | Band 25           | N/A           | 1             |
|                   | Band 26           | 2             | 0             |
|                   | Band 26 (Part 90) | 2             | 0             |
|                   | Band 30           | N/A           | 1             |
|                   | Band 38           | N/A           | 1             |
|                   | Band 41           | N/A           | 1             |
|                   | Band 66           | N/A           | 1             |
|                   | Band 71           | 2             | 0             |

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4. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

| BAND                   | H PLAN | E1 PLAN | E2 PLAN |
|------------------------|--------|---------|---------|
| GSM/GPRS/EDGE 850      |        | V       |         |
| GSM/GPRS/EDGE 1900     |        | V       |         |
| WCDMA/HSPA Band II     |        | V       |         |
| WCDMA/HSPA Band IV     |        | V       |         |
| WCDMA/HSPA Band V      |        | V       |         |
| LTE Band 2             |        | V       |         |
| LTE Band 4             |        | V       |         |
| LTE Band 5             |        | V       |         |
| LTE Band 7             |        | V       |         |
| LTE Band 12            |        | V       |         |
| LTE Band 13            |        | V       |         |
| LTE Band 17            |        | V       |         |
| LTE Band 25            |        | V       |         |
| LTE Band 26            |        | V       |         |
| LTE Band 26 (Part 90S) |        | V       |         |
| LTE Band 30            |        | V       |         |
| LTE Bnad 38            |        | V       |         |
| LTE Band 41            |        | V       |         |
| LTE Band 66            |        | V       |         |
| LTE Band 71            |        | V       |         |

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## 4.2 Measurement Configuration

| Test Items            | GSM Bands | Test Channel |   |   |
|-----------------------|-----------|--------------|---|---|
|                       |           | L            | M | H |
| ERP                   | 850       | v            | v | v |
| EIRP                  | 1900      | v            | v | v |
| FREQUENCY STABILITY   | 850       | -            | v | - |
|                       | 1900      | -            | v | - |
| OCCUPIED BANDWIDTH    | 850       | v            | v | v |
|                       | 1900      | v            | v | v |
| PEAK TO AVERAGE RATIO | 850       | v            | v | v |
|                       | 1900      | v            | v | v |
| BAND EDGE             | 850       | v            | - | v |
|                       | 1900      | v            | - | v |
| CONDCUDED EMISSION    | 850       | v            | v | v |
|                       | 1900      | v            | v | v |
| RADIATED EMISSION     | 850       | v            | v | v |
|                       | 1900      | v            | v | v |

| Test Items            | WCDMA / HSPA Bands | Test Channel |   |   |
|-----------------------|--------------------|--------------|---|---|
|                       |                    | L            | M | H |
| ERP                   | Band V             | v            | v | v |
| EIRP                  | Bnad II            | v            | v | v |
|                       | Band IV            | v            | v | v |
| FREQUENCY STABILITY   | Bnad II            | -            | v | - |
|                       | Band IV            | -            | v | - |
|                       | Band V             | -            | v | - |
| OCCUPIED BANDWIDTH    | Bnad II            | v            | v | v |
|                       | Band IV            | v            | v | v |
|                       | Band V             | v            | v | v |
| PEAK TO AVERAGE RATIO | Bnad II            | v            | v | v |
|                       | Band IV            | v            | v | v |
|                       | Band V             | v            | v | v |
| BAND EDGE             | Bnad II            | v            | - | v |
|                       | Band IV            | v            | - | v |
|                       | Band V             | v            | - | v |
| CONDCUDED EMISSION    | Bnad II            | v            | v | v |
|                       | Band IV            | v            | v | v |
|                       | Band V             | v            | v | v |
| RADIATED EMISSION     | Bnad II            | v            | v | v |
|                       | Band IV            | v            | v | v |
|                       | Band V             | v            | v | v |

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| Test Items          | Band   | Test Channel |   |   | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      |
|---------------------|--------|--------------|---|---|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|
|                     |        | L            | M | H | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full |
| Max. Output Power   | 2      | V            | V | 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    | V    | V    |
|                     | 5      | V            | V | V | V               | V | V | V  | -  | -  | V          | V     | V     | V      | V    | V    | V    |
|                     | 7      | V            | V | 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    | V    | V    |
|                     | 13     | V            | V | V | -               | - | V | V  | -  | -  | V          | V     | V     | V      | V    | V    | V    |
|                     | 17     | V            | V | 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    | V    | V    |
|                     | 26     | V            | V | 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    | V    | V    |
|                     | 30     | V            | V | V | -               | - | V | V  | -  | -  | V          | V     | V     | V      | V    | V    | V    |
|                     | 38     | V            | V | V | -               | - | V | V  | V  | V  | V          | V     | V     | V      | V    | V    | V    |
|                     | 41     | V            | V | 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    | V    | V    |
|                     | 71     | V            | V | V | -               | - | V | V  | V  | V  | V          | V     | V     | V      | V    | V    | V    |
| Frequency Stability | 2      | -            | V | - |                 |   | V |    |    |    | V          | -     | -     | -      | -    | -    | V    |
|                     | 4      | -            | V | - |                 |   | V |    |    |    | V          | -     | -     | -      | -    | -    | V    |
|                     | 5      | -            | V | - |                 |   | V |    | -  | -  | V          | -     | -     | -      | -    | -    | V    |
|                     | 7      | -            | V | - | -               | - | V |    |    |    | V          | -     | -     | -      | -    | -    | V    |
|                     | 12     | -            | V | - |                 |   | V |    | -  | -  | V          | -     | -     | -      | -    | -    | V    |
|                     | 13     | -            | V | - | -               | - | V |    | -  | -  | V          | -     | -     | -      | -    | -    | V    |
|                     | 17     | -            | V | - | -               | - | V |    | -  | -  | V          | -     | -     | -      | -    | -    | V    |
|                     | 25     | -            | V | - |                 |   | V |    |    |    | V          | -     | -     | -      | -    | -    | V    |
|                     | 26     | -            | V | - |                 |   | V |    | -  | -  | V          | -     | -     | -      | -    | -    | V    |
|                     | 26 P90 | -            | V | - |                 |   | V |    | -  | -  | V          | -     | -     | -      | -    | -    | V    |
|                     | 30     | -            | V | - | -               | - | V |    | -  | -  | V          | -     | -     | -      | -    | -    | V    |
|                     | 38     | -            | V | - | -               | - | V |    |    |    | V          | -     | -     | -      | -    | -    | V    |
|                     | 41     | -            | V | - | -               | - | V |    |    |    | V          | -     | -     | -      | -    | -    | V    |
|                     | 66     | -            | V | - |                 |   | V |    |    |    | V          | -     | -     | -      | -    | -    | V    |
|                     | 71     | -            | V | - | -               | - | V |    |    |    | V          | -     | -     | -      | -    | -    | V    |

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| Test Items             | Band   | Test Channel |   |   | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      |
|------------------------|--------|--------------|---|---|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|
|                        |        | L            | M | H | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full |
| 26dB and 99% Bandwidth | 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    |
|                        | 7      | 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    |
|                        | 17     | 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    |
|                        | 30     | V            | V | V | -               | - | V | V  | -  | -  | V          | V     | V     | V      | -    | -    | V    |
|                        | 38     | V            | V | V | -               | - | V | V  | V  | V  | V          | V     | V     | V      | -    | -    | V    |
|                        | 41     | 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    |
|                        | 71     | V            | V | V | -               | - | V | V  | V  | V  | V          | V     | V     | V      | -    | -    | V    |
| Peak-to-Average Ratio  | 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    |
|                        | 7      | 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    |
|                        | 17     | 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    |
|                        | 30     | V            | V | V | -               | - | V | V  | -  | -  |            |       |       | V      | -    | -    | V    |
|                        | 38     | V            | V | V | -               | - | V | V  | V  | V  |            |       |       | V      | -    | -    | V    |
|                        | 41     | V            | V | V | -               | - | V | V  | V  | V  |            |       |       | V      | -    | -    | V    |
|                        | 66     | V            | V | V | V               | V | V | V  | V  | V  |            |       |       | V      | -    | -    | V    |
|                        | 71     | V            | V | V | -               | - | V | V  | V  | V  |            |       |       | V      | -    | -    | V    |

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| Test Items         | Band   | Test Channel |   |   | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      |
|--------------------|--------|--------------|---|---|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|
|                    |        | L            | M | H | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full |
| Band Edge          | 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    |
|                    | 7      | 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    |
|                    | 17     | 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    |
|                    | 30     | V            | - | V | -               | - | V | V  | -  | -  | V          | -     | -     | -      | V    | V    | V    |
|                    | 38     | V            | - | V | -               | - | V | V  | V  | V  | V          | -     | -     | -      | V    | V    | V    |
|                    | 41     | V            | - | V | -               | - | V | V  | V  | V  | V          | -     | -     | -      | V    | V    | V    |
|                    | 66     | V            | - | V | V               | V | V | V  | V  | V  | V          | -     | -     | -      | V    | V    | V    |
|                    | 71     | V            | - | V | -               | - | V | V  | V  | V  | V          | -     | -     | -      | V    | V    | V    |
| 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    | -    | -    |
|                    | 7      | 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    | -    | -    |
|                    | 17     | 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    | -    | -    |
|                    | 30     | V            | V | V | -               | - | V | V  | -  | -  | V          | -     | -     | -      | V    | -    | -    |
|                    | 38     | V            | V | V | -               | - | V | V  | V  | V  | V          | -     | -     | -      | V    | -    | -    |
|                    | 41     | V            | V | V | -               | - | V | V  | V  | V  | V          | -     | -     | -      | V    | -    | -    |
|                    | 66     | V            | V | V | V               | V | V | V  | V  | V  | V          | -     | -     | -      | V    | -    | -    |
|                    | 71     | V            | V | V | -               | - | V | V  | V  | V  | V          | -     | -     | -      | V    | -    | -    |

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| Test Items        | Band   | Test Channel |   |   | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      |
|-------------------|--------|--------------|---|---|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|
|                   |        | L            | M | H | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full |
| Radiated Emission | 2      | V            | V | V |                 |   | V |    |    |    | V          |       |       |        | V    |      |      |
|                   | 4      | V            | V | V |                 |   | V |    |    |    | V          |       |       |        | V    |      |      |
|                   | 5      | V            | V | V |                 |   | V |    | -  | -  | V          |       |       |        | V    |      |      |
|                   | 7      | V            | V | V | -               | - | V |    |    |    | V          |       |       |        | V    |      |      |
|                   | 12     | V            | V | V |                 |   | V |    | -  | -  | V          |       |       |        | V    |      |      |
|                   | 13     | V            | V | V | -               | - | V |    | -  | -  | V          |       |       |        | V    |      |      |
|                   | 17     | 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    |      |      |
|                   | 30     | V            | V | V | -               | - | V |    | -  | -  | V          |       |       |        | V    |      |      |
|                   | 38     | V            | V | V | -               | - | V |    |    |    | V          |       |       |        | V    |      |      |
|                   | 41     | V            | V | V | -               | - | V |    |    |    | V          |       |       |        | V    |      |      |
|                   | 66     | V            | V | V |                 |   | V |    |    |    | V          |       |       |        | V    |      |      |
|                   | 71     | V            | V | V | -               | - | V |    |    |    | V          |       |       |        | V    |      |      |

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## 5 MEASUREMENT UNCERTAINTY

| Test Items                                                  | Uncertainty                                                                |
|-------------------------------------------------------------|----------------------------------------------------------------------------|
| RF Power Output                                             | +/- 1.10 dB                                                                |
| ERP/ EIRP measurement                                       | Vertical Polarization = +/- 4.74dB<br>Horizontal Polarization = +/- 4.62dB |
| 99% Occupied Bandwidth                                      | +/- 5.19 Hz                                                                |
| Out of Band Emissions at Antenna<br>Terminals and Band Edge | +/- 0.70 dB                                                                |
| Peak to Average Ratio                                       | +/- 0.70 dB                                                                |
| Frequency Stability vs. Temperature                         | +/- 5.19 Hz                                                                |
| Frequency Stability vs. Voltage                             | +/- 5.19 Hz                                                                |
| Temperature                                                 | +/- 0.65 °C                                                                |
| Humidity                                                    | +/- 4.6 %                                                                  |
| DC / AC Power Source                                        | DC= +/- 0.13%, AC= +/- 0.2%                                                |

### Radiated Spurious Emission:

|                                                              |                            |
|--------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Vertical</b> ) | 9kHz – 30MHz: +/- 2.87 dB  |
|                                                              | 30MHz - 180MHz: +/- 3.37dB |
|                                                              | 180MHz -417MHz: +/- 3.19dB |
|                                                              | 0.417GHz-1GHz: +/- 3.19dB  |
|                                                              | 1GHz - 18GHz: +/- 4.04dB   |
|                                                              | 18GHz - 40GHz: +/- 4.04dB  |

|                                                                |                            |
|----------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Horizontal</b> ) | 9kHz – 30MHz: +/- 2.87 dB  |
|                                                                | 30MHz - 167MHz: +/- 4.22dB |
|                                                                | 167MHz -500MHz: +/- 3.44dB |
|                                                                | 0.5GHz-1GHz: +/- 3.39dB    |
|                                                                | 1GHz - 18GHz: +/- 4.08dB   |
|                                                                | 18GHz - 40GHz: +/- 4.08dB  |

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 MAXIMUM OUTPUT POWER

### 6.1 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.

#### 6.1.1 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 (a)**

(3) for mobile and portable stations compliant with 3GPP LTE standards transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band are limited to 250 mW/ 5MHz EIRP but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

##### **FCC 27.50 (b)**

(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)**

(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 27, 50(h)**

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

##### **FCC 90.635(b)**

Mobile station is limited to 100W ERP

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**RSS-130 §4.6**

The e.i.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.

The e.i.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment operating in 698-756 and 777-787 MHz.

**RSS-132 §5.4**

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment in operating in the Bands 824-849 and 869-894MHz shall not exceed 11.5 watts.

**RSS-133 §6.4**

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510.

According to section 5.1.2 of SRSP-510, Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

**RSS-139 §6.5**

The equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters in the Bands 1710-1780MHz shall not exceed one watt.

**RSS-195 §5.5**

The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

**RSS-199 §4.4**

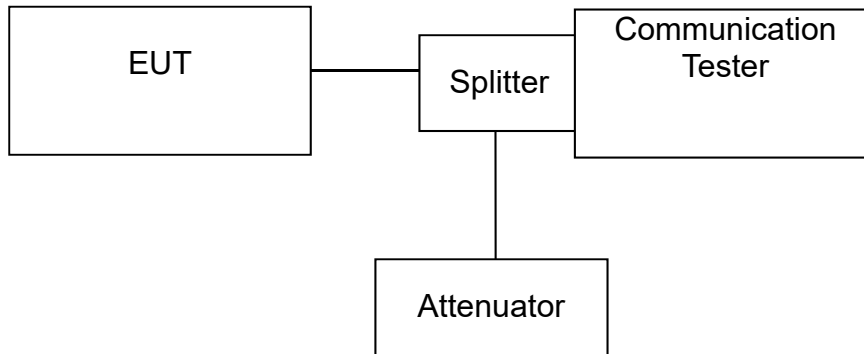
For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

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## 6.2 Test Set-up



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

## 6.3 Output Power Measurement Applicable Guidance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power. 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. All LTE bands conducted average power is obtained from the simulator telecommunication test set.

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

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

- ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as  $P_T$ , typically dBW, dBm, or power spectral density (PSD)2), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
- $P_T$  = transmitter output power, expressed in dBW, dBm, or PSD;
- $G_T$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- $L_C$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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## 6.5 Measurement Equipment Used

### 2/3G

| Conducted Emission (measured at antenna port) Test Site |              |              |               |            |            |
|---------------------------------------------------------|--------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                                          | MFR          | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| DC Power Supply                                         | Agilent      | E3640A       | MY40000811    | 12/23/2019 | 12/22/2020 |
| Radio Communication Analyzer                            | Anritsu      | MT8815B      | 6200711454    | 04/01/2020 | 03/31/2021 |
| Attenuator                                              | Mini-Circuit | BW-S10W2+    | 2             | 01/02/2020 | 01/01/2021 |

### 4G

| Conducted Emission (measured at antenna port) Test Site |               |              |                |            |            |
|---------------------------------------------------------|---------------|--------------|----------------|------------|------------|
| EQUIPMENT TYPE                                          | MFR           | MODEL NUMBER | SERIAL NUMBER  | LAST CAL.  | CAL DUE.   |
| PXA Spectrum Analyzer                                   | Agilent       | N9030A       | MY53120760     | 04/21/2020 | 04/20/2021 |
| Radio Communication Analyzer                            | Anritsu       | MT8821C      | 6261786084     | 01/18/2020 | 01/17/2021 |
| Attenuator                                              | Mini-Circuit  | BW-S10W2+    | 2              | 01/02/2020 | 01/01/2021 |
| DC Block                                                | Mini-Circuits | BLK-18-S+    | 1              | 01/02/2020 | 01/01/2021 |
| Splitter                                                | RF-LAMBAD     | RFLT2W1G18G  | 11-JSPF412-018 | 01/02/2020 | 01/01/2021 |

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## 6.6 Measurement Results

GSM/GPRS/EDGE (GMSK; 8-PSK) Result:

| EUT Mode  | Freq. (MHz) | CH  | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----------|-------------|-----|----------------------------|--------------------|-----------|------------|-------------|-------------|
| GSM 850   | 824.2       | 128 | 32.04                      | -1.80              | 28.09     | 30.24      | 38.50       | -8.26       |
|           | 836.6       | 190 | 32.42                      | -1.80              | 28.47     | 30.62      | 38.50       | -7.88       |
|           | 848.8       | 251 | 32.21                      | -1.80              | 28.26     | 30.41      | 38.50       | -8.09       |
| GSM 1900  | 1850.2      | 512 | 30.13                      | -1.00              | 26.98     | 29.13      | 33.00       | -3.87       |
|           | 1880.0      | 661 | 30.50                      | -1.00              | 27.35     | 29.50      | 33.00       | -3.50       |
|           | 1909.8      | 810 | 30.22                      | -1.00              | 27.07     | 29.22      | 33.00       | -3.78       |
| GPRS 850  | 824.2       | 128 | 32.18                      | -1.80              | 28.23     | 30.38      | 38.50       | -8.12       |
|           | 836.6       | 190 | 32.48                      | -1.80              | 28.53     | 30.68      | 38.50       | -7.82       |
|           | 848.8       | 251 | 32.27                      | -1.80              | 28.32     | 30.47      | 38.50       | -8.03       |
| GPRS 1900 | 1850.2      | 512 | 30.26                      | -1.00              | 27.11     | 29.26      | 33.00       | -3.74       |
|           | 1880.0      | 661 | 30.55                      | -1.00              | 27.40     | 29.55      | 33.00       | -3.45       |
|           | 1909.8      | 810 | 30.23                      | -1.00              | 27.08     | 29.23      | 33.00       | -3.77       |
| EDGE 850  | 824.2       | 128 | 26.52                      | -1.80              | 22.57     | 24.72      | 38.50       | -13.78      |
|           | 836.6       | 190 | 26.72                      | -1.80              | 22.77     | 24.92      | 38.50       | -13.58      |
|           | 848.8       | 251 | 26.42                      | -1.80              | 22.47     | 24.62      | 38.50       | -13.88      |
| EDGE 1900 | 1850.2      | 512 | 25.80                      | -1.00              | 22.65     | 24.80      | 33.00       | -8.20       |
|           | 1880.0      | 661 | 25.84                      | -1.00              | 22.69     | 24.84      | 33.00       | -8.16       |
|           | 1909.8      | 810 | 25.71                      | -1.00              | 22.56     | 24.71      | 33.00       | -8.29       |

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| EUT Mode  | Frequency (MHz) | CH  | Average Burst Power (1DN 1UP) Class 8 (dBm) | Average Burst Power (1DN 2UP) Class 10 (dBm) |
|-----------|-----------------|-----|---------------------------------------------|----------------------------------------------|
| GPRS 850  | 824.2           | 128 | 32.18                                       | 31.83                                        |
|           | 836.6           | 190 | 32.48                                       | 32.20                                        |
|           | 848.8           | 251 | 32.27                                       | 32.00                                        |
| GPRS 1900 | 1850.2          | 512 | 30.26                                       | 29.98                                        |
|           | 1880.0          | 661 | 30.55                                       | 30.39                                        |
|           | 1909.8          | 810 | 30.23                                       | 30.10                                        |
| EDGE 850  | 824.2           | 128 | 26.52                                       | 26.10                                        |
|           | 836.6           | 190 | 26.72                                       | 26.34                                        |
|           | 848.8           | 251 | 26.42                                       | 26.30                                        |
| EDGE 1900 | 1850.2          | 512 | 25.80                                       | 25.32                                        |
|           | 1880.0          | 661 | 25.84                                       | 25.82                                        |
|           | 1909.8          | 810 | 25.71                                       | 25.50                                        |

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## 6.7 WCDMA & HSPA Measurement Results:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of **24.50 dBm (+1.7/-3.7)**. RMC 12.2kps is used for this testing.

### WCDMA/HSUPA/HSDPA Band II Result:

| EUT Mode | Freq. (MHz) | CH   | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|----------|-------------|------|----------------------------|--------------------|-----------|------------|-------------|-------------|
| WCDMA    | 1852.4      | 9262 | 23.09                      | -1.00              | 19.94     | 22.09      | 33.00       | -10.91      |
|          | 1880.0      | 9400 | 23.11                      | -1.00              | 19.96     | 22.11      | 33.00       | -10.89      |
|          | 1907.6      | 9538 | 23.04                      | -1.00              | 19.89     | 22.04      | 33.00       | -10.96      |
| HSDPA    | 1852.4      | 9262 | 22.17                      | -1.00              | 19.02     | 21.17      | 33.00       | -11.83      |
|          | 1880.0      | 9400 | 22.14                      | -1.00              | 18.99     | 21.14      | 33.00       | -11.86      |
|          | 1907.6      | 9538 | 22.05                      | -1.00              | 18.90     | 21.05      | 33.00       | -11.95      |
| HSUPA    | 1852.4      | 9262 | 22.18                      | -1.00              | 19.03     | 21.18      | 33.00       | -11.82      |
|          | 1880.0      | 9400 | 22.10                      | -1.00              | 18.95     | 21.10      | 33.00       | -11.90      |
|          | 1907.6      | 9538 | 22.03                      | -1.00              | 18.88     | 21.03      | 33.00       | -11.97      |

### WCDMA/HSUPA/HSDPA Band IV Result:

| EUT Mode | Freq. (MHz) | CH   | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|----------|-------------|------|----------------------------|--------------------|-----------|------------|-------------|-------------|
| WCDMA    | 1712.4      | 1312 | 22.96                      | 0.70               | 21.51     | 23.66      | 30.00       | -6.34       |
|          | 1732.6      | 1413 | 22.93                      | 0.70               | 21.48     | 23.63      | 30.00       | -6.37       |
|          | 1752.6      | 1513 | 22.97                      | 0.70               | 21.52     | 23.67      | 30.00       | -6.33       |
| HSDPA    | 1712.4      | 1312 | 21.98                      | 0.70               | 20.53     | 22.68      | 30.00       | -7.32       |
|          | 1732.6      | 1413 | 21.99                      | 0.70               | 20.54     | 22.69      | 30.00       | -7.31       |
|          | 1752.6      | 1513 | 21.98                      | 0.70               | 20.53     | 22.68      | 30.00       | -7.32       |
| HSUPA    | 1712.4      | 1312 | 22.04                      | 0.70               | 20.59     | 22.74      | 30.00       | -7.26       |
|          | 1732.6      | 1413 | 21.89                      | 0.70               | 20.44     | 22.59      | 30.00       | -7.41       |
|          | 1752.6      | 1513 | 21.96                      | 0.70               | 20.51     | 22.66      | 30.00       | -7.34       |

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WCDMA/HSUPA/HSDPA Band V Result:

| EUT Mode | Freq. (MHz) | CH   | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|----------|-------------|------|----------------------------|--------------------|-----------|------------|-------------|-------------|
| WCDMA    | 826.4       | 4132 | 23.18                      | -1.80              | 19.23     | 21.38      | 38.50       | -17.12      |
|          | 836.6       | 4183 | 23.13                      | -1.80              | 19.18     | 21.33      | 38.50       | -17.17      |
|          | 846.6       | 4233 | 23.09                      | -1.80              | 19.14     | 21.29      | 38.50       | -17.21      |
| HSDPA    | 826.4       | 4132 | 22.15                      | -1.80              | 18.20     | 20.35      | 38.50       | -18.15      |
|          | 836.6       | 4183 | 22.07                      | -1.80              | 18.12     | 20.27      | 38.50       | -18.23      |
|          | 846.6       | 4233 | 23.11                      | -1.80              | 19.16     | 21.31      | 38.50       | -17.19      |
| HSUPA    | 826.4       | 4132 | 22.15                      | -1.80              | 18.20     | 20.35      | 38.50       | -18.15      |
|          | 836.6       | 4183 | 22.10                      | -1.80              | 18.15     | 20.30      | 38.50       | -18.20      |
|          | 846.6       | 4233 | 22.03                      | -1.80              | 18.08     | 20.23      | 38.50       | -18.27      |

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### 6.7.1 HSPA (HSDPA & HSUPA) Release 6:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing.

### 6.7.2 HSDPA SUB-TEST Setting

Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

| Sub-test | $\beta_c$         | $\beta_d$         | $\beta_d$<br>(SF) | $\beta_c/\beta_d$ | $\beta_{HS}$<br>(Note 1,<br>Note 2) | CM (dB)<br>(Note 3) | MPR<br>(dB)<br>(Note 3) | RMC<br>(Kbps) |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------------|---------------------|-------------------------|---------------|
| 1        | 2/15              | 15/15             | 64                | 2/15              | 4/15                                | 0.0                 | 0.0                     | 12.2          |
| 2        | 12/15<br>(Note 4) | 15/15<br>(Note 4) | 64                | 12/15<br>(Note 4) | 24/15                               | 1.0                 | 0.0                     | 12.2          |
| 3        | 15/15             | 8/15              | 64                | 15/8              | 30/15                               | 1.5                 | 0.5                     | 12.2          |
| 4        | 15/15             | 4/15              | 64                | 15/4              | 30/15                               | 1.5                 | 0.5                     | 12.2          |

**Note:** The recommended HSDPA MPRs are implemented as per following sub-tests.

| Mode     | Sub test | Avg. Power (dBm) |       |       | Mode     | Sub test | Avg. Power (dBm) |       |       |
|----------|----------|------------------|-------|-------|----------|----------|------------------|-------|-------|
|          |          | Channel          |       |       |          |          | Channel          |       |       |
|          |          | 9262             | 9400  | 9538  |          |          | 1312             | 1413  | 1513  |
| HSDPA II | 1        | 22.17            | 22.14 | 22.05 | HSDPA IV | 1        | 21.98            | 21.99 | 21.98 |
|          | 2        | 22.15            | 22.15 | 22.03 |          | 2        | 22.03            | 21.96 | 21.95 |
|          | 3        | 21.63            | 21.62 | 21.56 |          | 3        | 21.51            | 21.52 | 21.46 |
|          | 4        | 21.86            | 21.66 | 21.57 |          | 4        | 21.47            | 21.50 | 21.47 |

|  |         |          |                  |       |       |  |  |  |  |
|--|---------|----------|------------------|-------|-------|--|--|--|--|
|  | Mode    | Sub test | Avg. Power (dBm) |       |       |  |  |  |  |
|  |         |          | Channel          |       |       |  |  |  |  |
|  |         |          | 4132             | 4183  | 4233  |  |  |  |  |
|  | HSDPA V | 1        | 22.15            | 22.07 | 23.11 |  |  |  |  |
|  |         | 2        | 22.21            | 22.36 | 23.10 |  |  |  |  |
|  |         | 3        | 21.64            | 21.86 | 23.13 |  |  |  |  |
|  |         | 4        | 21.67            | 21.77 | 23.12 |  |  |  |  |

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### 6.7.3 HSPA SUB-TEST Setting

Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

| Sub-test | $\beta_c$      | $\beta_d$      | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{HS}$ | $\beta_{ec}$ | $\beta_{ed}$                                   | $\beta_{ed}$ (SF) | $\beta_{ed}$ (Code s) | CM (dB) | MPR (dB) | AG Index | E-TFCI | RMC (Kbps) |
|----------|----------------|----------------|----------------|-------------------|--------------|--------------|------------------------------------------------|-------------------|-----------------------|---------|----------|----------|--------|------------|
| 1        | 11/15 (Note 3) | 15/15 (Note 3) | 64             | 11/15 (Note 3)    | 22/15        | 209/225      | 1309/225                                       | 4                 | 1                     | 1.0     | 0.0      | 20       | 75     | 12.2       |
| 2        | 6/15           | 15/15          | 64             | 6/15              | 12/15        | 12/15        | 94/75                                          | 4                 | 1                     | 3.0     | 2.0      | 12       | 67     | 12.2       |
| 3        | 15/15          | 9/15           | 64             | 15/9              | 30/15        | 30/15        | $\beta_{ed1}$ : 47/15<br>$\beta_{ed2}$ : 47/15 | 4<br>4            | 2                     | 2.0     | 1.0      | 15       | 92     | 12.2       |
| 4        | 2/15           | 15/15          | 64             | 2/15              | 4/15         | 2/15         | 56/75                                          | 4                 | 1                     | 3.0     | 2.0      | 17       | 71     | 12.2       |
| 5        | 15/15 (Note 4) | 15/15 (Note 4) | 64             | 15/15 (Note 4)    | 30/15        | 24/15        | 134/15                                         | 4                 | 1                     | 1.0     | 0.0      | 21       | 81     | 12.2       |

**Note:** The recommended HSUPA MPRs are implemented as per following sub-tests.

| Mode     | Sub test | Avg. Power (dBm) |       |       | Mode     | Sub test | Avg. Power (dBm) |       |       |
|----------|----------|------------------|-------|-------|----------|----------|------------------|-------|-------|
|          |          | Channel          |       |       |          |          | Channel          |       |       |
|          |          | 9262             | 9400  | 9538  |          |          | 1312             | 1413  | 1513  |
| HSUPA II | 1        | 22.18            | 22.10 | 22.03 | HSUPA IV | 1        | 22.04            | 21.89 | 21.96 |
|          | 2        | 21.63            | 21.64 | 21.55 |          | 2        | 21.50            | 21.49 | 21.48 |
|          | 3        | 22.16            | 22.14 | 21.98 |          | 3        | 21.98            | 21.97 | 21.94 |
|          | 4        | 22.18            | 22.11 | 22.04 |          | 4        | 21.96            | 21.95 | 21.97 |
|          | 5        | 22.13            | 22.07 | 22.05 |          | 5        | 21.93            | 21.93 | 21.92 |

|  |         |          |                  |       |       |
|--|---------|----------|------------------|-------|-------|
|  | Mode    | Sub test | Avg. Power (dBm) |       |       |
|  |         |          | Channel          |       |       |
|  |         | 4132     | 4183             | 4233  |       |
|  | HSUPA V | 1        | 22.15            | 22.10 | 22.03 |
|  |         | 2        | 21.66            | 21.59 | 21.61 |
|  |         | 3        | 22.14            | 22.05 | 22.12 |
|  |         | 4        | 22.15            | 22.09 | 22.08 |
|  |         | 5        | 22.18            | 22.05 | 22.06 |

### 6.7.4 WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm then record the read. The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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## Minimum Communications Power Measurement PCS 1900 band

| PCL                | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Output power (dBm) | 30.48 | 28.63 | 26.66 | 24.68 | 22.65 | 20.65 | 18.71 | 16.65 | 14.71 |

| PCL                | 9     | 10    | 11   | 12   | 13   | 14  | 15   |
|--------------------|-------|-------|------|------|------|-----|------|
| Output power (dBm) | 12.64 | 10.67 | 8.77 | 6.74 | 4.67 | 2.6 | 1.12 |

Note: The EUT output power was controlled by simulator. Set Radio Communication Analyzer MT8815B PCL as above, and get the mobile phone output power reading.

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## 6.8 LTE Measurement Results:

| Antenna gain (dBi)                                  |               | -1                 |            |            |              |                               |                          |                        |                |
|-----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |               |                    |            |            |              |                               |                          |                        |                |
| BW<br>(MHz)                                         | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 1.4                                                 | 18607         | 1850.7             | QPSK       | 1          | 0            | 23.35                         | 22.35                    | 33                     | -10.65         |
|                                                     |               |                    |            | 1          | 5            | 23.48                         | 22.48                    | 33                     | -10.52         |
|                                                     |               |                    |            | 3          | 2            | 23.57                         | 22.57                    | 33                     | -10.43         |
|                                                     |               |                    |            | 6          | 0            | 22.56                         | 21.56                    | 33                     | -11.44         |
|                                                     | 18900         | 1880               | QPSK       | 1          | 0            | 23.35                         | 22.35                    | 33                     | -10.65         |
|                                                     |               |                    |            | 1          | 5            | 23.38                         | 22.38                    | 33                     | -10.62         |
|                                                     |               |                    |            | 3          | 2            | 23.39                         | 22.39                    | 33                     | -10.61         |
|                                                     |               |                    |            | 6          | 0            | 22.48                         | 21.48                    | 33                     | -11.52         |
|                                                     | 19193         | 1909.3             | QPSK       | 1          | 0            | 23.17                         | 22.17                    | 33                     | -10.83         |
|                                                     |               |                    |            | 1          | 5            | 23.25                         | 22.25                    | 33                     | -10.75         |
|                                                     |               |                    |            | 3          | 2            | 23.39                         | 22.39                    | 33                     | -10.61         |
|                                                     |               |                    |            | 6          | 0            | 22.42                         | 21.42                    | 33                     | -11.58         |
|                                                     | 18607         | 1850.7             | 16QAM      | 1          | 0            | 22.92                         | 21.92                    | 33                     | -11.08         |
|                                                     |               |                    |            | 1          | 5            | 23.09                         | 22.09                    | 33                     | -10.91         |
|                                                     |               |                    |            | 3          | 2            | 22.61                         | 21.61                    | 33                     | -11.39         |
|                                                     |               |                    |            | 6          | 0            | 21.64                         | 20.64                    | 33                     | -12.36         |
|                                                     | 18900         | 1880               | 16QAM      | 1          | 0            | 22.47                         | 21.47                    | 33                     | -11.53         |
|                                                     |               |                    |            | 1          | 5            | 22.61                         | 21.61                    | 33                     | -11.39         |
|                                                     |               |                    |            | 3          | 2            | 22.58                         | 21.58                    | 33                     | -11.42         |
|                                                     |               |                    |            | 6          | 0            | 21.50                         | 20.50                    | 33                     | -12.5          |
|                                                     | 19193         | 1909.3             | 16QAM      | 1          | 0            | 22.58                         | 21.58                    | 33                     | -11.42         |
|                                                     |               |                    |            | 1          | 5            | 22.42                         | 21.42                    | 33                     | -11.58         |
|                                                     |               |                    |            | 3          | 2            | 22.33                         | 21.33                    | 33                     | -11.67         |
|                                                     |               |                    |            | 6          | 0            | 21.43                         | 20.43                    | 33                     | -12.57         |
|                                                     | 18607         | 1850.7             | 64QAM      | 1          | 0            | 22.49                         | 21.49                    | 33                     | -11.51         |
|                                                     |               |                    |            | 1          | 5            | 22.41                         | 21.41                    | 33                     | -11.59         |
|                                                     |               |                    |            | 3          | 2            | 22.41                         | 21.41                    | 33                     | -11.59         |
|                                                     |               |                    |            | 6          | 0            | 21.48                         | 20.48                    | 33                     | -12.52         |
|                                                     | 18900         | 1880               | 64QAM      | 1          | 0            | 22.42                         | 21.42                    | 33                     | -11.58         |
|                                                     |               |                    |            | 1          | 5            | 22.41                         | 21.41                    | 33                     | -11.59         |
|                                                     |               |                    |            | 3          | 2            | 22.39                         | 21.39                    | 33                     | -11.61         |
|                                                     |               |                    |            | 6          | 0            | 21.50                         | 20.50                    | 33                     | -12.5          |
|                                                     | 19193         | 1909.3             | 64QAM      | 1          | 0            | 22.47                         | 21.47                    | 33                     | -11.53         |
|                                                     |               |                    |            | 1          | 5            | 22.50                         | 21.50                    | 33                     | -11.5          |
|                                                     |               |                    |            | 3          | 2            | 22.36                         | 21.36                    | 33                     | -11.64         |
|                                                     |               |                    |            | 6          | 0            | 21.31                         | 20.31                    | 33                     | -12.69         |
|                                                     | 18607         | 1850.7             | 256QAM     | 1          | 0            | 19.49                         | 18.49                    | 33                     | -14.51         |
|                                                     |               |                    |            | 1          | 5            | 19.48                         | 18.48                    | 33                     | -14.52         |
|                                                     |               |                    |            | 3          | 2            | 19.44                         | 18.44                    | 33                     | -14.56         |
|                                                     |               |                    |            | 6          | 0            | 19.42                         | 18.42                    | 33                     | -14.58         |
|                                                     | 18900         | 1880               | 256QAM     | 1          | 0            | 19.45                         | 18.45                    | 33                     | -14.55         |
|                                                     |               |                    |            | 1          | 5            | 19.46                         | 18.46                    | 33                     | -14.54         |
|                                                     |               |                    |            | 3          | 2            | 19.41                         | 18.41                    | 33                     | -14.59         |
|                                                     |               |                    |            | 6          | 0            | 19.35                         | 18.35                    | 33                     | -14.65         |
|                                                     | 19193         | 1909.3             | 256QAM     | 1          | 0            | 19.48                         | 18.48                    | 33                     | -14.52         |
|                                                     |               |                    |            | 1          | 5            | 19.36                         | 18.36                    | 33                     | -14.64         |
|                                                     |               |                    |            | 3          | 2            | 19.33                         | 18.33                    | 33                     | -14.67         |
|                                                     |               |                    |            | 6          | 0            | 19.32                         | 18.32                    | 33                     | -14.68         |

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| Antenna gain (dBi)                                  |               | -1                 |            |            |              |                               |                          |                        |                |
|-----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| LTE Band 2 Uplink frequency band : 1850 to 1910 MHz |               |                    |            |            |              |                               |                          |                        |                |
| BW<br>(MHz)                                         | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 3                                                   | 18615         | 1851.5             | QPSK       | 1          | 0            | 23.31                         | 22.31                    | 33                     | -10.69         |
|                                                     |               |                    |            | 1          | 14           | 23.10                         | 22.10                    | 33                     | -10.9          |
|                                                     |               |                    |            | 8          | 4            | 22.17                         | 21.17                    | 33                     | -11.83         |
|                                                     |               |                    |            | 15         | 0            | 22.31                         | 21.31                    | 33                     | -11.69         |
|                                                     | 18900         | 1880               | QPSK       | 1          | 0            | 23.03                         | 22.03                    | 33                     | -10.97         |
|                                                     |               |                    |            | 1          | 14           | 23.21                         | 22.21                    | 33                     | -10.79         |
|                                                     |               |                    |            | 8          | 4            | 22.04                         | 21.04                    | 33                     | -11.96         |
|                                                     |               |                    |            | 15         | 0            | 22.26                         | 21.26                    | 33                     | -11.74         |
|                                                     | 19185         | 1908.5             | QPSK       | 1          | 0            | 23.03                         | 22.03                    | 33                     | -10.97         |
|                                                     |               |                    |            | 1          | 14           | 23.12                         | 22.12                    | 33                     | -10.88         |
|                                                     |               |                    |            | 8          | 4            | 22.06                         | 21.06                    | 33                     | -11.94         |
|                                                     |               |                    |            | 15         | 0            | 22.32                         | 21.32                    | 33                     | -11.68         |
|                                                     | 18615         | 1851.5             | 16QAM      | 1          | 0            | 22.54                         | 21.54                    | 33                     | -11.46         |
|                                                     |               |                    |            | 1          | 14           | 22.11                         | 21.11                    | 33                     | -11.89         |
|                                                     |               |                    |            | 8          | 4            | 21.43                         | 20.43                    | 33                     | -12.57         |
|                                                     |               |                    |            | 15         | 0            | 21.17                         | 20.17                    | 33                     | -12.83         |
|                                                     | 18900         | 1880               | 16QAM      | 1          | 0            | 22.37                         | 21.37                    | 33                     | -11.63         |
|                                                     |               |                    |            | 1          | 14           | 22.22                         | 21.22                    | 33                     | -11.78         |
|                                                     |               |                    |            | 8          | 4            | 21.02                         | 20.02                    | 33                     | -12.98         |
|                                                     |               |                    |            | 15         | 0            | 21.37                         | 20.37                    | 33                     | -12.63         |
|                                                     | 19185         | 1908.5             | 16QAM      | 1          | 0            | 22.88                         | 21.88                    | 33                     | -11.12         |
|                                                     |               |                    |            | 1          | 14           | 22.38                         | 21.38                    | 33                     | -11.62         |
|                                                     |               |                    |            | 8          | 4            | 21.25                         | 20.25                    | 33                     | -12.75         |
|                                                     |               |                    |            | 15         | 0            | 21.20                         | 20.20                    | 33                     | -12.8          |
|                                                     | 18615         | 1851.5             | 64QAM      | 1          | 0            | 22.27                         | 21.27                    | 33                     | -11.73         |
|                                                     |               |                    |            | 1          | 14           | 22.36                         | 21.36                    | 33                     | -11.64         |
|                                                     |               |                    |            | 8          | 4            | 21.22                         | 20.22                    | 33                     | -12.78         |
|                                                     |               |                    |            | 15         | 0            | 21.38                         | 20.38                    | 33                     | -12.62         |
|                                                     | 18900         | 1880               | 64QAM      | 1          | 0            | 22.49                         | 21.49                    | 33                     | -11.51         |
|                                                     |               |                    |            | 1          | 14           | 21.97                         | 20.97                    | 33                     | -12.03         |
|                                                     |               |                    |            | 8          | 4            | 21.37                         | 20.37                    | 33                     | -12.63         |
|                                                     |               |                    |            | 15         | 0            | 21.33                         | 20.33                    | 33                     | -12.67         |
|                                                     | 19185         | 1908.5             | 64QAM      | 1          | 0            | 22.35                         | 21.35                    | 33                     | -11.65         |
|                                                     |               |                    |            | 1          | 14           | 21.97                         | 20.97                    | 33                     | -12.03         |
|                                                     |               |                    |            | 8          | 4            | 21.00                         | 20.00                    | 33                     | -13            |
|                                                     |               |                    |            | 15         | 0            | 21.16                         | 20.16                    | 33                     | -12.84         |
|                                                     | 18615         | 1851.5             | 256QAM     | 1          | 0            | 19.49                         | 18.49                    | 33                     | -14.51         |
|                                                     |               |                    |            | 1          | 14           | 19.33                         | 18.33                    | 33                     | -14.67         |
|                                                     |               |                    |            | 8          | 4            | 19.28                         | 18.28                    | 33                     | -14.72         |
|                                                     |               |                    |            | 15         | 0            | 19.22                         | 18.22                    | 33                     | -14.78         |
|                                                     | 18900         | 1880               | 256QAM     | 1          | 0            | 19.44                         | 18.44                    | 33                     | -14.56         |
|                                                     |               |                    |            | 1          | 14           | 19.48                         | 18.48                    | 33                     | -14.52         |
|                                                     |               |                    |            | 8          | 4            | 19.32                         | 18.32                    | 33                     | -14.68         |
|                                                     |               |                    |            | 15         | 0            | 19.29                         | 18.29                    | 33                     | -14.71         |
|                                                     | 19185         | 1908.5             | 256QAM     | 1          | 0            | 19.47                         | 18.47                    | 33                     | -14.53         |
|                                                     |               |                    |            | 1          | 14           | 19.44                         | 18.44                    | 33                     | -14.56         |
|                                                     |               |                    |            | 8          | 4            | 19.23                         | 18.23                    | 33                     | -14.77         |
|                                                     |               |                    |            | 15         | 0            | 19.32                         | 18.32                    | 33                     | -14.68         |

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| Antenna gain (dBi)                                  |            | -1              |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2 Uplink frequency band : 1850 to 1910 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5                                                   | 18625      | 1852.5          | QPSK       | 1       | 0         | 23.39                   | 22.39              | 33               | -10.61      |
|                                                     |            |                 |            | 1       | 24        | 23.22                   | 22.22              | 33               | -10.78      |
|                                                     |            |                 |            | 12      | 6         | 22.31                   | 21.31              | 33               | -11.69      |
|                                                     |            |                 |            | 25      | 0         | 22.42                   | 21.42              | 33               | -11.58      |
|                                                     | 18900      | 1880            | QPSK       | 1       | 0         | 23.06                   | 22.06              | 33               | -10.94      |
|                                                     |            |                 |            | 1       | 24        | 23.26                   | 22.26              | 33               | -10.74      |
|                                                     |            |                 |            | 12      | 6         | 22.15                   | 21.15              | 33               | -11.85      |
|                                                     |            |                 |            | 25      | 0         | 22.37                   | 21.37              | 33               | -11.63      |
|                                                     | 19175      | 1907.5          | QPSK       | 1       | 0         | 23.04                   | 22.04              | 33               | -10.96      |
|                                                     |            |                 |            | 1       | 24        | 23.27                   | 22.27              | 33               | -10.73      |
|                                                     |            |                 |            | 12      | 6         | 22.23                   | 21.23              | 33               | -11.77      |
|                                                     |            |                 |            | 25      | 0         | 22.38                   | 21.38              | 33               | -11.62      |
|                                                     | 18625      | 1852.5          | 16QAM      | 1       | 0         | 22.62                   | 21.62              | 33               | -11.38      |
|                                                     |            |                 |            | 1       | 24        | 22.25                   | 21.25              | 33               | -11.75      |
|                                                     |            |                 |            | 12      | 6         | 21.55                   | 20.55              | 33               | -12.45      |
|                                                     |            |                 |            | 25      | 0         | 21.22                   | 20.22              | 33               | -12.78      |
|                                                     | 18900      | 1880            | 16QAM      | 1       | 0         | 22.44                   | 21.44              | 33               | -11.56      |
|                                                     |            |                 |            | 1       | 24        | 22.28                   | 21.28              | 33               | -11.72      |
|                                                     |            |                 |            | 12      | 6         | 21.08                   | 20.08              | 33               | -12.92      |
|                                                     |            |                 |            | 25      | 0         | 21.37                   | 20.37              | 33               | -12.63      |
|                                                     | 19175      | 1907.5          | 16QAM      | 1       | 0         | 22.97                   | 21.97              | 33               | -11.03      |
|                                                     |            |                 |            | 1       | 24        | 22.45                   | 21.45              | 33               | -11.55      |
|                                                     |            |                 |            | 12      | 6         | 21.38                   | 20.38              | 33               | -12.62      |
|                                                     |            |                 |            | 25      | 0         | 21.34                   | 20.34              | 33               | -12.66      |
|                                                     | 18625      | 1852.5          | 64QAM      | 1       | 0         | 22.27                   | 21.27              | 33               | -11.73      |
|                                                     |            |                 |            | 1       | 24        | 22.36                   | 21.36              | 33               | -11.64      |
|                                                     |            |                 |            | 12      | 6         | 21.38                   | 20.38              | 33               | -12.62      |
|                                                     |            |                 |            | 25      | 0         | 21.50                   | 20.50              | 33               | -12.5       |
|                                                     | 18900      | 1880            | 64QAM      | 1       | 0         | 22.49                   | 21.49              | 33               | -11.51      |
|                                                     |            |                 |            | 1       | 24        | 22.04                   | 21.04              | 33               | -11.96      |
|                                                     |            |                 |            | 12      | 6         | 21.40                   | 20.40              | 33               | -12.6       |
|                                                     |            |                 |            | 25      | 0         | 21.35                   | 20.35              | 33               | -12.65      |
|                                                     | 19175      | 1907.5          | 64QAM      | 1       | 0         | 22.49                   | 21.49              | 33               | -11.51      |
|                                                     |            |                 |            | 1       | 24        | 22.00                   | 21.00              | 33               | -12         |
|                                                     |            |                 |            | 12      | 6         | 21.18                   | 20.18              | 33               | -12.82      |
|                                                     |            |                 |            | 25      | 0         | 21.28                   | 20.28              | 33               | -12.72      |
|                                                     | 18625      | 1852.5          | 256QAM     | 1       | 0         | 19.48                   | 18.48              | 33               | -14.52      |
|                                                     |            |                 |            | 1       | 24        | 19.47                   | 18.47              | 33               | -14.53      |
|                                                     |            |                 |            | 12      | 6         | 19.36                   | 18.36              | 33               | -14.64      |
|                                                     |            |                 |            | 25      | 0         | 19.33                   | 18.33              | 33               | -14.67      |
|                                                     | 18900      | 1880            | 256QAM     | 1       | 0         | 19.49                   | 18.49              | 33               | -14.51      |
|                                                     |            |                 |            | 1       | 24        | 19.45                   | 18.45              | 33               | -14.55      |
|                                                     |            |                 |            | 12      | 6         | 19.23                   | 18.23              | 33               | -14.77      |
|                                                     |            |                 |            | 25      | 0         | 19.22                   | 18.22              | 33               | -14.78      |
|                                                     | 19175      | 1907.5          | 256QAM     | 1       | 0         | 19.49                   | 18.49              | 33               | -14.51      |
|                                                     |            |                 |            | 1       | 24        | 19.47                   | 18.47              | 33               | -14.53      |
|                                                     |            |                 |            | 12      | 6         | 19.31                   | 18.31              | 33               | -14.69      |
|                                                     |            |                 |            | 25      | 0         | 19.28                   | 18.28              | 33               | -14.72      |

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| Antenna gain (dBi)                                  |            | -1              |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2 Uplink frequency band : 1850 to 1910 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                  | 18650      | 1855            | QPSK       | 1       | 0         | 23.51                   | 22.51              | 33               | -10.49      |
|                                                     |            |                 |            | 1       | 49        | 23.40                   | 22.40              | 33               | -10.6       |
|                                                     |            |                 |            | 25      | 12        | 22.42                   | 21.42              | 33               | -11.58      |
|                                                     |            |                 |            | 50      | 0         | 22.57                   | 21.57              | 33               | -11.43      |
|                                                     | 18900      | 1880            | QPSK       | 1       | 0         | 23.10                   | 22.10              | 33               | -10.9       |
|                                                     |            |                 |            | 1       | 49        | 23.31                   | 22.31              | 33               | -10.69      |
|                                                     |            |                 |            | 25      | 12        | 22.33                   | 21.33              | 33               | -11.67      |
|                                                     |            |                 |            | 50      | 0         | 22.50                   | 21.50              | 33               | -11.5       |
|                                                     | 19150      | 1905            | QPSK       | 1       | 0         | 23.22                   | 22.22              | 33               | -10.78      |
|                                                     |            |                 |            | 1       | 49        | 23.38                   | 22.38              | 33               | -10.62      |
|                                                     |            |                 |            | 25      | 12        | 22.37                   | 21.37              | 33               | -11.63      |
|                                                     |            |                 |            | 50      | 0         | 22.52                   | 21.52              | 33               | -11.48      |
|                                                     | 18650      | 1855            | 16QAM      | 1       | 0         | 22.62                   | 21.62              | 33               | -11.38      |
|                                                     |            |                 |            | 1       | 49        | 22.41                   | 21.41              | 33               | -11.59      |
|                                                     |            |                 |            | 25      | 12        | 21.62                   | 20.62              | 33               | -12.38      |
|                                                     |            |                 |            | 50      | 0         | 21.34                   | 20.34              | 33               | -12.66      |
|                                                     | 18900      | 1880            | 16QAM      | 1       | 0         | 22.59                   | 21.59              | 33               | -11.41      |
|                                                     |            |                 |            | 1       | 49        | 22.34                   | 21.34              | 33               | -11.66      |
|                                                     |            |                 |            | 25      | 12        | 21.21                   | 20.21              | 33               | -12.79      |
|                                                     |            |                 |            | 50      | 0         | 21.37                   | 20.37              | 33               | -12.63      |
|                                                     | 19150      | 1905            | 16QAM      | 1       | 0         | 23.00                   | 22.00              | 33               | -11         |
|                                                     |            |                 |            | 1       | 49        | 22.51                   | 21.51              | 33               | -11.49      |
|                                                     |            |                 |            | 25      | 12        | 21.46                   | 20.46              | 33               | -12.54      |
|                                                     |            |                 |            | 50      | 0         | 21.41                   | 20.41              | 33               | -12.59      |
|                                                     | 18650      | 1855            | 64QAM      | 1       | 0         | 22.31                   | 21.31              | 33               | -11.69      |
|                                                     |            |                 |            | 1       | 49        | 22.39                   | 21.39              | 33               | -11.61      |
|                                                     |            |                 |            | 25      | 12        | 21.46                   | 20.46              | 33               | -12.54      |
|                                                     |            |                 |            | 50      | 0         | 21.53                   | 20.53              | 33               | -12.47      |
|                                                     | 18900      | 1880            | 64QAM      | 1       | 0         | 22.48                   | 21.48              | 33               | -11.52      |
|                                                     |            |                 |            | 1       | 49        | 22.12                   | 21.12              | 33               | -11.88      |
|                                                     |            |                 |            | 25      | 12        | 21.45                   | 20.45              | 33               | -12.55      |
|                                                     |            |                 |            | 50      | 0         | 21.38                   | 20.38              | 33               | -12.62      |
|                                                     | 19150      | 1905            | 64QAM      | 1       | 0         | 22.48                   | 21.48              | 33               | -11.52      |
|                                                     |            |                 |            | 1       | 49        | 22.12                   | 21.12              | 33               | -11.88      |
|                                                     |            |                 |            | 25      | 12        | 21.23                   | 20.23              | 33               | -12.77      |
|                                                     |            |                 |            | 50      | 0         | 21.47                   | 20.47              | 33               | -12.53      |
|                                                     | 18650      | 1855            | 256QAM     | 1       | 0         | 19.49                   | 18.49              | 33               | -14.51      |
|                                                     |            |                 |            | 1       | 49        | 19.44                   | 18.44              | 33               | -14.56      |
|                                                     |            |                 |            | 25      | 12        | 19.01                   | 18.01              | 33               | -14.99      |
|                                                     |            |                 |            | 50      | 0         | 19.10                   | 18.10              | 33               | -14.9       |
|                                                     | 18900      | 1880            | 256QAM     | 1       | 0         | 19.48                   | 18.48              | 33               | -14.52      |
|                                                     |            |                 |            | 1       | 49        | 19.44                   | 18.44              | 33               | -14.56      |
|                                                     |            |                 |            | 25      | 12        | 19.03                   | 18.03              | 33               | -14.97      |
|                                                     |            |                 |            | 50      | 0         | 19.05                   | 18.05              | 33               | -14.95      |
|                                                     | 19150      | 1905            | 256QAM     | 1       | 0         | 19.47                   | 18.47              | 33               | -14.53      |
|                                                     |            |                 |            | 1       | 49        | 19.44                   | 18.44              | 33               | -14.56      |
|                                                     |            |                 |            | 25      | 12        | 19.11                   | 18.11              | 33               | -14.89      |
|                                                     |            |                 |            | 50      | 0         | 19.03                   | 18.03              | 33               | -14.97      |

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| Antenna gain (dBi)                                  |            | -1              |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2 Uplink frequency band : 1850 to 1910 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                  | 18675      | 1857.5          | QPSK       | 1       | 0         | 23.58                   | 22.58              | 33               | -10.42      |
|                                                     |            |                 |            | 1       | 74        | 23.52                   | 22.52              | 33               | -10.48      |
|                                                     |            |                 |            | 36      | 18        | 22.61                   | 21.61              | 33               | -11.39      |
|                                                     |            |                 |            | 75      | 0         | 22.64                   | 21.64              | 33               | -11.36      |
|                                                     | 18900      | 1880            | QPSK       | 1       | 0         | 23.27                   | 22.27              | 33               | -10.73      |
|                                                     |            |                 |            | 1       | 74        | 23.38                   | 22.38              | 33               | -10.62      |
|                                                     |            |                 |            | 36      | 18        | 22.48                   | 21.48              | 33               | -11.52      |
|                                                     |            |                 |            | 75      | 0         | 22.61                   | 21.61              | 33               | -11.39      |
|                                                     | 19125      | 1902.5          | QPSK       | 1       | 0         | 23.38                   | 22.38              | 33               | -10.62      |
|                                                     |            |                 |            | 1       | 74        | 23.55                   | 22.55              | 33               | -10.45      |
|                                                     |            |                 |            | 36      | 18        | 22.41                   | 21.41              | 33               | -11.59      |
|                                                     |            |                 |            | 75      | 0         | 22.55                   | 21.55              | 33               | -11.45      |
|                                                     | 18675      | 1857.5          | 16QAM      | 1       | 0         | 22.71                   | 21.71              | 33               | -11.29      |
|                                                     |            |                 |            | 1       | 74        | 22.54                   | 21.54              | 33               | -11.46      |
|                                                     |            |                 |            | 36      | 18        | 21.69                   | 20.69              | 33               | -12.31      |
|                                                     |            |                 |            | 75      | 0         | 21.52                   | 20.52              | 33               | -12.48      |
|                                                     | 18900      | 1880            | 16QAM      | 1       | 0         | 22.59                   | 21.59              | 33               | -11.41      |
|                                                     |            |                 |            | 1       | 74        | 22.38                   | 21.38              | 33               | -11.62      |
|                                                     |            |                 |            | 36      | 18        | 21.38                   | 20.38              | 33               | -12.62      |
|                                                     |            |                 |            | 75      | 0         | 21.48                   | 20.48              | 33               | -12.52      |
|                                                     | 19125      | 1902.5          | 16QAM      | 1       | 0         | 23.03                   | 22.03              | 33               | -10.97      |
|                                                     |            |                 |            | 1       | 74        | 22.63                   | 21.63              | 33               | -11.37      |
|                                                     |            |                 |            | 36      | 18        | 21.55                   | 20.55              | 33               | -12.45      |
|                                                     |            |                 |            | 75      | 0         | 21.60                   | 20.60              | 33               | -12.4       |
|                                                     | 18675      | 1857.5          | 64QAM      | 1       | 0         | 22.49                   | 21.49              | 33               | -11.51      |
|                                                     |            |                 |            | 1       | 74        | 22.39                   | 21.39              | 33               | -11.61      |
|                                                     |            |                 |            | 36      | 18        | 21.46                   | 20.46              | 33               | -12.54      |
|                                                     |            |                 |            | 75      | 0         | 21.66                   | 20.66              | 33               | -12.34      |
|                                                     | 18900      | 1880            | 64QAM      | 1       | 0         | 22.46                   | 21.46              | 33               | -11.54      |
|                                                     |            |                 |            | 1       | 74        | 22.23                   | 21.23              | 33               | -11.77      |
|                                                     |            |                 |            | 36      | 18        | 21.50                   | 20.50              | 33               | -12.5       |
|                                                     |            |                 |            | 75      | 0         | 21.48                   | 20.48              | 33               | -12.52      |
|                                                     | 19125      | 1902.5          | 64QAM      | 1       | 0         | 22.48                   | 21.48              | 33               | -11.52      |
|                                                     |            |                 |            | 1       | 74        | 22.30                   | 21.30              | 33               | -11.7       |
|                                                     |            |                 |            | 36      | 18        | 21.42                   | 20.42              | 33               | -12.58      |
|                                                     |            |                 |            | 75      | 0         | 21.49                   | 20.49              | 33               | -12.51      |
|                                                     | 18675      | 1857.5          | 256QAM     | 1       | 0         | 19.47                   | 18.47              | 33               | -14.53      |
|                                                     |            |                 |            | 1       | 74        | 19.46                   | 18.46              | 33               | -14.54      |
|                                                     |            |                 |            | 36      | 18        | 19.11                   | 18.11              | 33               | -14.89      |
|                                                     |            |                 |            | 75      | 0         | 19.13                   | 18.13              | 33               | -14.87      |
|                                                     | 18900      | 1880            | 256QAM     | 1       | 0         | 19.49                   | 18.49              | 33               | -14.51      |
|                                                     |            |                 |            | 1       | 74        | 19.43                   | 18.43              | 33               | -14.57      |
|                                                     |            |                 |            | 36      | 18        | 19.21                   | 18.21              | 33               | -14.79      |
|                                                     |            |                 |            | 75      | 0         | 19.08                   | 18.08              | 33               | -14.92      |
|                                                     | 19125      | 1902.5          | 256QAM     | 1       | 0         | 19.49                   | 18.49              | 33               | -14.51      |
|                                                     |            |                 |            | 1       | 74        | 19.47                   | 18.47              | 33               | -14.53      |
|                                                     |            |                 |            | 36      | 18        | 19.05                   | 18.05              | 33               | -14.95      |
|                                                     |            |                 |            | 75      | 0         | 19.06                   | 18.06              | 33               | -14.94      |

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| Antenna gain (dBi)                                  |            | -1              |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2 Uplink frequency band : 1850 to 1910 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                  | 18700      | 1860            | QPSK       | 1       | 0         | 23.59                   | 22.59              | 33               | -10.41      |
|                                                     |            |                 |            | 1       | 99        | 23.52                   | 22.52              | 33               | -10.48      |
|                                                     |            |                 |            | 50      | 25        | 22.72                   | 21.72              | 33               | -11.28      |
|                                                     |            |                 |            | 100     | 0         | 22.71                   | 21.71              | 33               | -11.29      |
|                                                     | 18900      | 1880            | QPSK       | 1       | 0         | 23.44                   | 22.44              | 33               | -10.56      |
|                                                     |            |                 |            | 1       | 99        | 23.38                   | 22.38              | 33               | -10.62      |
|                                                     |            |                 |            | 50      | 25        | 22.63                   | 21.63              | 33               | -11.37      |
|                                                     |            |                 |            | 100     | 0         | 22.55                   | 21.55              | 33               | -11.45      |
|                                                     | 19100      | 1900            | QPSK       | 1       | 0         | 23.56                   | 22.56              | 33               | -10.44      |
|                                                     |            |                 |            | 1       | 99        | 23.44                   | 22.44              | 33               | -10.56      |
|                                                     |            |                 |            | 50      | 25        | 22.58                   | 21.58              | 33               | -11.42      |
|                                                     |            |                 |            | 100     | 0         | 22.61                   | 21.61              | 33               | -11.39      |
|                                                     | 18700      | 1860            | 16QAM      | 1       | 0         | 22.75                   | 21.75              | 33               | -11.25      |
|                                                     |            |                 |            | 1       | 99        | 22.61                   | 21.61              | 33               | -11.39      |
|                                                     |            |                 |            | 50      | 25        | 21.71                   | 20.71              | 33               | -12.29      |
|                                                     |            |                 |            | 100     | 0         | 21.64                   | 20.64              | 33               | -12.36      |
|                                                     | 18900      | 1880            | 16QAM      | 1       | 0         | 22.74                   | 21.74              | 33               | -11.26      |
|                                                     |            |                 |            | 1       | 99        | 22.45                   | 21.45              | 33               | -11.55      |
|                                                     |            |                 |            | 50      | 25        | 21.55                   | 20.55              | 33               | -12.45      |
|                                                     |            |                 |            | 100     | 0         | 21.54                   | 20.54              | 33               | -12.46      |
|                                                     | 19100      | 1900            | 16QAM      | 1       | 0         | 23.10                   | 22.10              | 33               | -10.9       |
|                                                     |            |                 |            | 1       | 99        | 22.63                   | 21.63              | 33               | -11.37      |
|                                                     |            |                 |            | 50      | 25        | 21.55                   | 20.55              | 33               | -12.45      |
|                                                     |            |                 |            | 100     | 0         | 21.66                   | 20.66              | 33               | -12.34      |
|                                                     | 18700      | 1860            | 64QAM      | 1       | 0         | 22.49                   | 21.49              | 33               | -11.51      |
|                                                     |            |                 |            | 1       | 99        | 22.47                   | 21.47              | 33               | -11.53      |
|                                                     |            |                 |            | 50      | 25        | 21.58                   | 20.58              | 33               | -12.42      |
|                                                     |            |                 |            | 100     | 0         | 21.66                   | 20.66              | 33               | -12.34      |
|                                                     | 18900      | 1880            | 64QAM      | 1       | 0         | 22.43                   | 21.43              | 33               | -11.57      |
|                                                     |            |                 |            | 1       | 99        | 22.38                   | 21.38              | 33               | -11.62      |
|                                                     |            |                 |            | 50      | 25        | 21.59                   | 20.59              | 33               | -12.41      |
|                                                     |            |                 |            | 100     | 0         | 21.52                   | 20.52              | 33               | -12.48      |
|                                                     | 19100      | 1900            | 64QAM      | 1       | 0         | 22.46                   | 21.46              | 33               | -11.54      |
|                                                     |            |                 |            | 1       | 99        | 22.35                   | 21.35              | 33               | -11.65      |
|                                                     |            |                 |            | 50      | 25        | 21.56                   | 20.56              | 33               | -12.44      |
|                                                     |            |                 |            | 100     | 0         | 21.60                   | 20.60              | 33               | -12.4       |
|                                                     | 18700      | 1860            | 256QAM     | 1       | 0         | 19.46                   | 18.46              | 33               | -14.54      |
|                                                     |            |                 |            | 1       | 99        | 19.47                   | 18.47              | 33               | -14.53      |
|                                                     |            |                 |            | 50      | 25        | 19.15                   | 18.15              | 33               | -14.85      |
|                                                     |            |                 |            | 100     | 0         | 19.09                   | 18.09              | 33               | -14.91      |
|                                                     | 18900      | 1880            | 256QAM     | 1       | 0         | 19.48                   | 18.48              | 33               | -14.52      |
|                                                     |            |                 |            | 1       | 99        | 19.47                   | 18.47              | 33               | -14.53      |
|                                                     |            |                 |            | 50      | 25        | 19.16                   | 18.16              | 33               | -14.84      |
|                                                     |            |                 |            | 100     | 0         | 19.11                   | 18.11              | 33               | -14.89      |
|                                                     | 19100      | 1900            | 256QAM     | 1       | 0         | 19.46                   | 18.46              | 33               | -14.54      |
|                                                     |            |                 |            | 1       | 99        | 19.47                   | 18.47              | 33               | -14.53      |
|                                                     |            |                 |            | 50      | 25        | 19.18                   | 18.18              | 33               | -14.82      |
|                                                     |            |                 |            | 100     | 0         | 19.17                   | 18.17              | 33               | -14.83      |

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| Antenna gain (dBi)                                  |            | 0.7             |            |         |           |                         |                    |                  |             |  |  |  |  |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|--|--|--|--|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |  |  |  |  |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |  |  |  |  |
| 1.4                                                 | 19957      | 1710.7          | QPSK       | 1       | 0         | 23.16                   | 23.86              | 30               | -6.14       |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 23.23                   | 23.93              | 30               | -6.07       |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 23.27                   | 23.97              | 30               | -6.03       |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 22.30                   | 23.00              | 30               | -7          |  |  |  |  |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 23.12                   | 23.82              | 30               | -6.18       |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 23.23                   | 23.93              | 30               | -6.07       |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 23.31                   | 24.01              | 30               | -5.99       |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 22.29                   | 22.99              | 30               | -7.01       |  |  |  |  |
|                                                     | 20393      | 1754.3          | QPSK       | 1       | 0         | 23.19                   | 23.89              | 30               | -6.11       |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 23.26                   | 23.96              | 30               | -6.04       |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 23.34                   | 24.04              | 30               | -5.96       |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 22.31                   | 23.01              | 30               | -6.99       |  |  |  |  |
|                                                     | 19957      | 1710.7          | 16QAM      | 1       | 0         | 22.48                   | 23.18              | 30               | -6.82       |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 22.66                   | 23.36              | 30               | -6.64       |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 22.29                   | 22.99              | 30               | -7.01       |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 21.45                   | 22.15              | 30               | -7.85       |  |  |  |  |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 22.48                   | 23.18              | 30               | -6.82       |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 22.46                   | 23.16              | 30               | -6.84       |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 22.26                   | 22.96              | 30               | -7.04       |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 21.29                   | 21.99              | 30               | -8.01       |  |  |  |  |
|                                                     | 20393      | 1754.3          | 16QAM      | 1       | 0         | 22.16                   | 22.86              | 30               | -7.14       |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 22.41                   | 23.11              | 30               | -6.89       |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 22.37                   | 23.07              | 30               | -6.93       |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 21.29                   | 21.99              | 30               | -8.01       |  |  |  |  |
|                                                     | 19957      | 1710.7          | 64QAM      | 1       | 0         | 22.47                   | 23.17              | 30               | -6.83       |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 22.46                   | 23.16              | 30               | -6.84       |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 22.34                   | 23.04              | 30               | -6.96       |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 21.25                   | 21.95              | 30               | -8.05       |  |  |  |  |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 22.49                   | 23.19              | 30               | -6.81       |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 22.16                   | 22.86              | 30               | -7.14       |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 22.40                   | 23.10              | 30               | -6.9        |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 21.27                   | 21.97              | 30               | -8.03       |  |  |  |  |
|                                                     | 20393      | 1754.3          | 64QAM      | 1       | 0         | 22.44                   | 23.14              | 30               | -6.86       |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 22.47                   | 23.17              | 30               | -6.83       |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 22.14                   | 22.84              | 30               | -7.16       |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 21.36                   | 22.06              | 30               | -7.94       |  |  |  |  |
|                                                     | 19957      | 1710.7          | 256QAM     | 1       | 0         | 19.47                   | 20.17              | 30               | -9.83       |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 19.46                   | 20.16              | 30               | -9.84       |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 19.33                   | 20.03              | 30               | -9.97       |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 18.54                   | 19.24              | 30               | -10.76      |  |  |  |  |
|                                                     | 20175      | 1732.5          | 256QAM     | 1       | 0         | 19.47                   | 20.17              | 30               | -9.83       |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 19.27                   | 19.97              | 30               | -10.03      |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 19.00                   | 19.70              | 30               | -10.3       |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 18.47                   | 19.17              | 30               | -10.83      |  |  |  |  |
|                                                     | 20393      | 1754.3          | 256QAM     | 1       | 0         | 19.30                   | 20.00              | 30               | -10         |  |  |  |  |
|                                                     |            |                 |            | 1       | 5         | 19.17                   | 19.87              | 30               | -10.13      |  |  |  |  |
|                                                     |            |                 |            | 3       | 2         | 19.10                   | 19.80              | 30               | -10.2       |  |  |  |  |
|                                                     |            |                 |            | 6       | 0         | 18.68                   | 19.38              | 30               | -10.62      |  |  |  |  |

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| Antenna gain (dBi)                                  |            | 0.7             |            |         |           |                         |                    |                  |             |  |  |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|--|--|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |  |  |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |  |  |
| 3                                                   | 19965      | 1711.5          | QPSK       | 1       | 0         | 22.89                   | 23.59              | 30               | -6.41       |  |  |
|                                                     |            |                 |            | 1       | 14        | 22.78                   | 23.48              | 30               | -6.52       |  |  |
|                                                     |            |                 |            | 8       | 4         | 21.91                   | 22.61              | 30               | -7.39       |  |  |
|                                                     |            |                 |            | 15      | 0         | 21.78                   | 22.48              | 30               | -7.52       |  |  |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 22.92                   | 23.62              | 30               | -6.38       |  |  |
|                                                     |            |                 |            | 1       | 14        | 22.84                   | 23.54              | 30               | -6.46       |  |  |
|                                                     |            |                 |            | 8       | 4         | 21.76                   | 22.46              | 30               | -7.54       |  |  |
|                                                     |            |                 |            | 15      | 0         | 22.07                   | 22.77              | 30               | -7.23       |  |  |
|                                                     | 20385      | 1753.5          | QPSK       | 1       | 0         | 22.75                   | 23.45              | 30               | -6.55       |  |  |
|                                                     |            |                 |            | 1       | 14        | 22.56                   | 23.26              | 30               | -6.74       |  |  |
|                                                     |            |                 |            | 8       | 4         | 22.13                   | 22.83              | 30               | -7.17       |  |  |
|                                                     |            |                 |            | 15      | 0         | 21.99                   | 22.69              | 30               | -7.31       |  |  |
|                                                     | 19965      | 1711.5          | 16QAM      | 1       | 0         | 22.75                   | 23.45              | 30               | -6.55       |  |  |
|                                                     |            |                 |            | 1       | 14        | 21.95                   | 22.65              | 30               | -7.35       |  |  |
|                                                     |            |                 |            | 8       | 4         | 21.08                   | 21.78              | 30               | -8.22       |  |  |
|                                                     |            |                 |            | 15      | 0         | 20.88                   | 21.58              | 30               | -8.42       |  |  |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 22.08                   | 22.78              | 30               | -7.22       |  |  |
|                                                     |            |                 |            | 1       | 14        | 22.20                   | 22.90              | 30               | -7.1        |  |  |
|                                                     |            |                 |            | 8       | 4         | 20.87                   | 21.57              | 30               | -8.43       |  |  |
|                                                     |            |                 |            | 15      | 0         | 20.86                   | 21.56              | 30               | -8.44       |  |  |
|                                                     | 20385      | 1753.5          | 16QAM      | 1       | 0         | 22.23                   | 22.93              | 30               | -7.07       |  |  |
|                                                     |            |                 |            | 1       | 14        | 22.29                   | 22.99              | 30               | -7.01       |  |  |
|                                                     |            |                 |            | 8       | 4         | 21.23                   | 21.93              | 30               | -8.07       |  |  |
|                                                     |            |                 |            | 15      | 0         | 21.07                   | 21.77              | 30               | -8.23       |  |  |
|                                                     | 19965      | 1711.5          | 64QAM      | 1       | 0         | 21.90                   | 22.60              | 30               | -7.4        |  |  |
|                                                     |            |                 |            | 1       | 14        | 22.03                   | 22.73              | 30               | -7.27       |  |  |
|                                                     |            |                 |            | 8       | 4         | 21.03                   | 21.73              | 30               | -8.27       |  |  |
|                                                     |            |                 |            | 15      | 0         | 20.74                   | 21.44              | 30               | -8.56       |  |  |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 22.50                   | 23.20              | 30               | -6.8        |  |  |
|                                                     |            |                 |            | 1       | 14        | 21.93                   | 22.63              | 30               | -7.37       |  |  |
|                                                     |            |                 |            | 8       | 4         | 20.75                   | 21.45              | 30               | -8.55       |  |  |
|                                                     |            |                 |            | 15      | 0         | 20.99                   | 21.69              | 30               | -8.31       |  |  |
|                                                     | 20385      | 1753.5          | 64QAM      | 1       | 0         | 22.49                   | 23.19              | 30               | -6.81       |  |  |
|                                                     |            |                 |            | 1       | 14        | 21.99                   | 22.69              | 30               | -7.31       |  |  |
|                                                     |            |                 |            | 8       | 4         | 20.88                   | 21.58              | 30               | -8.42       |  |  |
|                                                     |            |                 |            | 15      | 0         | 20.91                   | 21.61              | 30               | -8.39       |  |  |
|                                                     | 19965      | 1711.5          | 256QAM     | 1       | 0         | 19.48                   | 20.18              | 30               | -9.82       |  |  |
|                                                     |            |                 |            | 1       | 14        | 19.23                   | 19.93              | 30               | -10.07      |  |  |
|                                                     |            |                 |            | 8       | 4         | 18.87                   | 19.57              | 30               | -10.43      |  |  |
|                                                     |            |                 |            | 15      | 0         | 18.56                   | 19.26              | 30               | -10.74      |  |  |
|                                                     | 20175      | 1732.5          | 256QAM     | 1       | 0         | 19.49                   | 20.19              | 30               | -9.81       |  |  |
|                                                     |            |                 |            | 1       | 14        | 19.42                   | 20.12              | 30               | -9.88       |  |  |
|                                                     |            |                 |            | 8       | 4         | 18.61                   | 19.31              | 30               | -10.69      |  |  |
|                                                     |            |                 |            | 15      | 0         | 18.55                   | 19.25              | 30               | -10.75      |  |  |
|                                                     | 20385      | 1753.5          | 256QAM     | 1       | 0         | 19.48                   | 20.18              | 30               | -9.82       |  |  |
|                                                     |            |                 |            | 1       | 14        | 19.34                   | 20.04              | 30               | -9.96       |  |  |
|                                                     |            |                 |            | 8       | 4         | 18.75                   | 19.45              | 30               | -10.55      |  |  |
|                                                     |            |                 |            | 15      | 0         | 18.78                   | 19.48              | 30               | -10.52      |  |  |

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| Antenna gain (dBi)                                  |            | 0.7             |            |         |           |                         |                    |                  |             |  |  |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|--|--|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |  |  |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |  |  |
| 5                                                   | 19975      | 1712.5          | QPSK       | 1       | 0         | 23.02                   | 23.72              | 30               | -6.28       |  |  |
|                                                     |            |                 |            | 1       | 24        | 23.06                   | 23.76              | 30               | -6.24       |  |  |
|                                                     |            |                 |            | 12      | 6         | 22.20                   | 22.90              | 30               | -7.1        |  |  |
|                                                     |            |                 |            | 25      | 0         | 21.99                   | 22.69              | 30               | -7.31       |  |  |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 23.00                   | 23.70              | 30               | -6.3        |  |  |
|                                                     |            |                 |            | 1       | 24        | 23.02                   | 23.72              | 30               | -6.28       |  |  |
|                                                     |            |                 |            | 12      | 6         | 21.89                   | 22.59              | 30               | -7.41       |  |  |
|                                                     |            |                 |            | 25      | 0         | 22.15                   | 22.85              | 30               | -7.15       |  |  |
|                                                     | 20375      | 1752.5          | QPSK       | 1       | 0         | 23.03                   | 23.73              | 30               | -6.27       |  |  |
|                                                     |            |                 |            | 1       | 24        | 22.81                   | 23.51              | 30               | -6.49       |  |  |
|                                                     |            |                 |            | 12      | 6         | 22.35                   | 23.05              | 30               | -6.95       |  |  |
|                                                     |            |                 |            | 25      | 0         | 22.20                   | 22.90              | 30               | -7.1        |  |  |
|                                                     | 19975      | 1712.5          | 16QAM      | 1       | 0         | 22.92                   | 23.62              | 30               | -6.38       |  |  |
|                                                     |            |                 |            | 1       | 24        | 22.21                   | 22.91              | 30               | -7.09       |  |  |
|                                                     |            |                 |            | 12      | 6         | 21.18                   | 21.88              | 30               | -8.12       |  |  |
|                                                     |            |                 |            | 25      | 0         | 21.18                   | 21.88              | 30               | -8.12       |  |  |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 22.25                   | 22.95              | 30               | -7.05       |  |  |
|                                                     |            |                 |            | 1       | 24        | 22.26                   | 22.96              | 30               | -7.04       |  |  |
|                                                     |            |                 |            | 12      | 6         | 21.10                   | 21.80              | 30               | -8.2        |  |  |
|                                                     |            |                 |            | 25      | 0         | 20.97                   | 21.67              | 30               | -8.33       |  |  |
|                                                     | 20375      | 1752.5          | 16QAM      | 1       | 0         | 22.29                   | 22.99              | 30               | -7.01       |  |  |
|                                                     |            |                 |            | 1       | 24        | 22.42                   | 23.12              | 30               | -6.88       |  |  |
|                                                     |            |                 |            | 12      | 6         | 21.29                   | 21.99              | 30               | -8.01       |  |  |
|                                                     |            |                 |            | 25      | 0         | 21.11                   | 21.81              | 30               | -8.19       |  |  |
|                                                     | 19975      | 1712.5          | 64QAM      | 1       | 0         | 22.10                   | 22.80              | 30               | -7.2        |  |  |
|                                                     |            |                 |            | 1       | 24        | 22.11                   | 22.81              | 30               | -7.19       |  |  |
|                                                     |            |                 |            | 12      | 6         | 21.23                   | 21.93              | 30               | -8.07       |  |  |
|                                                     |            |                 |            | 25      | 0         | 21.02                   | 21.72              | 30               | -8.28       |  |  |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 22.49                   | 23.19              | 30               | -6.81       |  |  |
|                                                     |            |                 |            | 1       | 24        | 21.95                   | 22.65              | 30               | -7.35       |  |  |
|                                                     |            |                 |            | 12      | 6         | 21.02                   | 21.72              | 30               | -8.28       |  |  |
|                                                     |            |                 |            | 25      | 0         | 21.14                   | 21.84              | 30               | -8.16       |  |  |
|                                                     | 20375      | 1752.5          | 64QAM      | 1       | 0         | 22.47                   | 23.17              | 30               | -6.83       |  |  |
|                                                     |            |                 |            | 1       | 24        | 22.14                   | 22.84              | 30               | -7.16       |  |  |
|                                                     |            |                 |            | 12      | 6         | 21.00                   | 21.70              | 30               | -8.3        |  |  |
|                                                     |            |                 |            | 25      | 0         | 21.10                   | 21.80              | 30               | -8.2        |  |  |
|                                                     | 19975      | 1712.5          | 256QAM     | 1       | 0         | 19.49                   | 20.19              | 30               | -9.81       |  |  |
|                                                     |            |                 |            | 1       | 24        | 19.47                   | 20.17              | 30               | -9.83       |  |  |
|                                                     |            |                 |            | 12      | 6         | 18.91                   | 19.61              | 30               | -10.39      |  |  |
|                                                     |            |                 |            | 25      | 0         | 18.86                   | 19.56              | 30               | -10.44      |  |  |
|                                                     | 20175      | 1732.5          | 256QAM     | 1       | 0         | 19.49                   | 20.19              | 30               | -9.81       |  |  |
|                                                     |            |                 |            | 1       | 24        | 19.44                   | 20.14              | 30               | -9.86       |  |  |
|                                                     |            |                 |            | 12      | 6         | 18.84                   | 19.54              | 30               | -10.46      |  |  |
|                                                     |            |                 |            | 25      | 0         | 18.74                   | 19.44              | 30               | -10.56      |  |  |
|                                                     | 20375      | 1752.5          | 256QAM     | 1       | 0         | 19.48                   | 20.18              | 30               | -9.82       |  |  |
|                                                     |            |                 |            | 1       | 24        | 19.46                   | 20.16              | 30               | -9.84       |  |  |
|                                                     |            |                 |            | 12      | 6         | 19.01                   | 19.71              | 30               | -10.29      |  |  |
|                                                     |            |                 |            | 25      | 0         | 18.85                   | 19.55              | 30               | -10.45      |  |  |

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| Antenna gain (dBi)                                  |            | 0.7             |            |         |           |                         |                    |                  |             |  |  |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|--|--|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |  |  |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |  |  |
| 10                                                  | 20000      | 1715            | QPSK       | 1       | 0         | 23.15                   | 23.85              | 30               | -6.15       |  |  |
|                                                     |            |                 |            | 1       | 49        | 23.19                   | 23.89              | 30               | -6.11       |  |  |
|                                                     |            |                 |            | 25      | 12        | 22.20                   | 22.90              | 30               | -7.1        |  |  |
|                                                     |            |                 |            | 50      | 0         | 22.15                   | 22.85              | 30               | -7.15       |  |  |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 23.13                   | 23.83              | 30               | -6.17       |  |  |
|                                                     |            |                 |            | 1       | 49        | 23.02                   | 23.72              | 30               | -6.28       |  |  |
|                                                     |            |                 |            | 25      | 12        | 22.07                   | 22.77              | 30               | -7.23       |  |  |
|                                                     |            |                 |            | 50      | 0         | 22.25                   | 22.95              | 30               | -7.05       |  |  |
|                                                     | 20375      | 1750            | QPSK       | 1       | 0         | 23.07                   | 23.77              | 30               | -6.23       |  |  |
|                                                     |            |                 |            | 1       | 49        | 23.00                   | 23.70              | 30               | -6.3        |  |  |
|                                                     |            |                 |            | 25      | 12        | 22.36                   | 23.06              | 30               | -6.94       |  |  |
|                                                     |            |                 |            | 50      | 0         | 22.33                   | 23.03              | 30               | -6.97       |  |  |
|                                                     | 20000      | 1715            | 16QAM      | 1       | 0         | 22.95                   | 23.65              | 30               | -6.35       |  |  |
|                                                     |            |                 |            | 1       | 49        | 22.32                   | 23.02              | 30               | -6.98       |  |  |
|                                                     |            |                 |            | 25      | 12        | 21.25                   | 21.95              | 30               | -8.05       |  |  |
|                                                     |            |                 |            | 50      | 0         | 21.25                   | 21.95              | 30               | -8.05       |  |  |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 22.38                   | 23.08              | 30               | -6.92       |  |  |
|                                                     |            |                 |            | 1       | 49        | 22.43                   | 23.13              | 30               | -6.87       |  |  |
|                                                     |            |                 |            | 25      | 12        | 21.18                   | 21.88              | 30               | -8.12       |  |  |
|                                                     |            |                 |            | 50      | 0         | 21.05                   | 21.75              | 30               | -8.25       |  |  |
|                                                     | 20375      | 1750            | 16QAM      | 1       | 0         | 22.37                   | 23.07              | 30               | -6.93       |  |  |
|                                                     |            |                 |            | 1       | 49        | 22.51                   | 23.21              | 30               | -6.79       |  |  |
|                                                     |            |                 |            | 25      | 12        | 21.38                   | 22.08              | 30               | -7.92       |  |  |
|                                                     |            |                 |            | 50      | 0         | 21.13                   | 21.83              | 30               | -8.17       |  |  |
|                                                     | 20000      | 1715            | 64QAM      | 1       | 0         | 22.29                   | 22.99              | 30               | -7.01       |  |  |
|                                                     |            |                 |            | 1       | 49        | 22.14                   | 22.84              | 30               | -7.16       |  |  |
|                                                     |            |                 |            | 25      | 12        | 21.28                   | 21.98              | 30               | -8.02       |  |  |
|                                                     |            |                 |            | 50      | 0         | 21.14                   | 21.84              | 30               | -8.16       |  |  |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 22.48                   | 23.18              | 30               | -6.82       |  |  |
|                                                     |            |                 |            | 1       | 49        | 22.00                   | 22.70              | 30               | -7.3        |  |  |
|                                                     |            |                 |            | 25      | 12        | 21.17                   | 21.87              | 30               | -8.13       |  |  |
|                                                     |            |                 |            | 50      | 0         | 21.20                   | 21.90              | 30               | -8.1        |  |  |
|                                                     | 20375      | 1750            | 64QAM      | 1       | 0         | 22.49                   | 23.19              | 30               | -6.81       |  |  |
|                                                     |            |                 |            | 1       | 49        | 22.33                   | 23.03              | 30               | -6.97       |  |  |
|                                                     |            |                 |            | 25      | 12        | 21.16                   | 21.86              | 30               | -8.14       |  |  |
|                                                     |            |                 |            | 50      | 0         | 21.21                   | 21.91              | 30               | -8.09       |  |  |
|                                                     | 20000      | 1715            | 256QAM     | 1       | 0         | 19.47                   | 20.17              | 30               | -9.83       |  |  |
|                                                     |            |                 |            | 1       | 49        | 19.49                   | 20.19              | 30               | -9.81       |  |  |
|                                                     |            |                 |            | 25      | 12        | 19.00                   | 19.70              | 30               | -10.3       |  |  |
|                                                     |            |                 |            | 50      | 0         | 18.97                   | 19.67              | 30               | -10.33      |  |  |
|                                                     | 20175      | 1732.5          | 256QAM     | 1       | 0         | 19.44                   | 20.14              | 30               | -9.86       |  |  |
|                                                     |            |                 |            | 1       | 49        | 19.46                   | 20.16              | 30               | -9.84       |  |  |
|                                                     |            |                 |            | 25      | 12        | 19.02                   | 19.72              | 30               | -10.28      |  |  |
|                                                     |            |                 |            | 50      | 0         | 18.92                   | 19.62              | 30               | -10.38      |  |  |
|                                                     | 20375      | 1750            | 256QAM     | 1       | 0         | 19.49                   | 20.19              | 30               | -9.81       |  |  |
|                                                     |            |                 |            | 1       | 49        | 19.47                   | 20.17              | 30               | -9.83       |  |  |
|                                                     |            |                 |            | 25      | 12        | 19.07                   | 19.77              | 30               | -10.23      |  |  |
|                                                     |            |                 |            | 50      | 0         | 18.96                   | 19.66              | 30               | -10.34      |  |  |

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| Antenna gain (dBi)                                  |            | 0.7             |            |         |           |                         |                    |                  |             |  |  |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|--|--|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |  |  |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |  |  |
| 15                                                  | 20025      | 1717.5          | QPSK       | 1       | 0         | 23.27                   | 23.97              | 30               | -6.03       |  |  |
|                                                     |            |                 |            | 1       | 74        | 23.26                   | 23.96              | 30               | -6.04       |  |  |
|                                                     |            |                 |            | 36      | 18        | 22.20                   | 22.90              | 30               | -7.1        |  |  |
|                                                     |            |                 |            | 75      | 0         | 22.19                   | 22.89              | 30               | -7.11       |  |  |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 23.19                   | 23.89              | 30               | -6.11       |  |  |
|                                                     |            |                 |            | 1       | 74        | 23.12                   | 23.82              | 30               | -6.18       |  |  |
|                                                     |            |                 |            | 36      | 18        | 22.24                   | 22.94              | 30               | -7.06       |  |  |
|                                                     |            |                 |            | 75      | 0         | 22.37                   | 23.07              | 30               | -6.93       |  |  |
|                                                     | 20325      | 1747.5          | QPSK       | 1       | 0         | 23.24                   | 23.94              | 30               | -6.06       |  |  |
|                                                     |            |                 |            | 1       | 74        | 23.04                   | 23.74              | 30               | -6.26       |  |  |
|                                                     |            |                 |            | 36      | 18        | 22.38                   | 23.08              | 30               | -6.92       |  |  |
|                                                     |            |                 |            | 75      | 0         | 22.34                   | 23.04              | 30               | -6.96       |  |  |
|                                                     | 20025      | 1717.5          | 16QAM      | 1       | 0         | 23.00                   | 23.70              | 30               | -6.3        |  |  |
|                                                     |            |                 |            | 1       | 74        | 22.41                   | 23.11              | 30               | -6.89       |  |  |
|                                                     |            |                 |            | 36      | 18        | 21.38                   | 22.08              | 30               | -7.92       |  |  |
|                                                     |            |                 |            | 75      | 0         | 21.40                   | 22.10              | 30               | -7.9        |  |  |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 22.51                   | 23.21              | 30               | -6.79       |  |  |
|                                                     |            |                 |            | 1       | 74        | 22.43                   | 23.13              | 30               | -6.87       |  |  |
|                                                     |            |                 |            | 36      | 18        | 21.35                   | 22.05              | 30               | -7.95       |  |  |
|                                                     |            |                 |            | 75      | 0         | 21.22                   | 21.92              | 30               | -8.08       |  |  |
|                                                     | 20325      | 1747.5          | 16QAM      | 1       | 0         | 22.49                   | 23.19              | 30               | -6.81       |  |  |
|                                                     |            |                 |            | 1       | 74        | 22.70                   | 23.40              | 30               | -6.6        |  |  |
|                                                     |            |                 |            | 36      | 18        | 21.49                   | 22.19              | 30               | -7.81       |  |  |
|                                                     |            |                 |            | 75      | 0         | 21.27                   | 21.97              | 30               | -8.03       |  |  |
|                                                     | 20025      | 1717.5          | 64QAM      | 1       | 0         | 22.47                   | 23.17              | 30               | -6.83       |  |  |
|                                                     |            |                 |            | 1       | 74        | 22.16                   | 22.86              | 30               | -7.14       |  |  |
|                                                     |            |                 |            | 36      | 18        | 21.40                   | 22.10              | 30               | -7.9        |  |  |
|                                                     |            |                 |            | 75      | 0         | 21.27                   | 21.97              | 30               | -8.03       |  |  |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 22.48                   | 23.18              | 30               | -6.82       |  |  |
|                                                     |            |                 |            | 1       | 74        | 22.16                   | 22.86              | 30               | -7.14       |  |  |
|                                                     |            |                 |            | 36      | 18        | 21.26                   | 21.96              | 30               | -8.04       |  |  |
|                                                     |            |                 |            | 75      | 0         | 21.23                   | 21.93              | 30               | -8.07       |  |  |
|                                                     | 20325      | 1747.5          | 64QAM      | 1       | 0         | 22.49                   | 23.19              | 30               | -6.81       |  |  |
|                                                     |            |                 |            | 1       | 74        | 22.38                   | 23.08              | 30               | -6.92       |  |  |
|                                                     |            |                 |            | 36      | 18        | 21.20                   | 21.90              | 30               | -8.1        |  |  |
|                                                     |            |                 |            | 75      | 0         | 21.30                   | 22.00              | 30               | -8          |  |  |
|                                                     | 20025      | 1717.5          | 256QAM     | 1       | 0         | 19.32                   | 20.02              | 30               | -9.98       |  |  |
|                                                     |            |                 |            | 1       | 74        | 19.29                   | 19.99              | 30               | -10.01      |  |  |
|                                                     |            |                 |            | 36      | 18        | 18.58                   | 19.28              | 30               | -10.72      |  |  |
|                                                     |            |                 |            | 75      | 0         | 18.50                   | 19.20              | 30               | -10.8       |  |  |
|                                                     | 20175      | 1732.5          | 256QAM     | 1       | 0         | 19.31                   | 20.01              | 30               | -9.99       |  |  |
|                                                     |            |                 |            | 1       | 74        | 19.41                   | 20.11              | 30               | -9.89       |  |  |
|                                                     |            |                 |            | 36      | 18        | 18.57                   | 19.27              | 30               | -10.73      |  |  |
|                                                     |            |                 |            | 75      | 0         | 18.53                   | 19.23              | 30               | -10.77      |  |  |
|                                                     | 20325      | 1747.5          | 256QAM     | 1       | 0         | 19.35                   | 20.05              | 30               | -9.95       |  |  |
|                                                     |            |                 |            | 1       | 74        | 19.23                   | 19.93              | 30               | -10.07      |  |  |
|                                                     |            |                 |            | 36      | 18        | 18.60                   | 19.30              | 30               | -10.7       |  |  |
|                                                     |            |                 |            | 75      | 0         | 18.50                   | 19.20              | 30               | -10.8       |  |  |

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| Antenna gain (dBi)                                  |            | 0.7             |            |         |           |                         |                    |                  |             |  |  |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|--|--|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |                 |            |         |           |                         |                    |                  |             |  |  |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |  |  |
| 20                                                  | 20050      | 1720            | QPSK       | 1       | 0         | 23.38                   | 24.08              | 30               | -5.92       |  |  |
|                                                     |            |                 |            | 1       | 99        | 23.37                   | 24.07              | 30               | -5.93       |  |  |
|                                                     |            |                 |            | 50      | 25        | 22.39                   | 23.09              | 30               | -6.91       |  |  |
|                                                     |            |                 |            | 100     | 0         | 22.35                   | 23.05              | 30               | -6.95       |  |  |
|                                                     | 20175      | 1732.5          | QPSK       | 1       | 0         | 23.36                   | 24.06              | 30               | -5.94       |  |  |
|                                                     |            |                 |            | 1       | 99        | 23.17                   | 23.87              | 30               | -6.13       |  |  |
|                                                     |            |                 |            | 50      | 25        | 22.35                   | 23.05              | 30               | -6.95       |  |  |
|                                                     |            |                 |            | 100     | 0         | 22.38                   | 23.08              | 30               | -6.92       |  |  |
|                                                     | 20300      | 1745            | QPSK       | 1       | 0         | 23.34                   | 24.04              | 30               | -5.96       |  |  |
|                                                     |            |                 |            | 1       | 99        | 23.21                   | 23.91              | 30               | -6.09       |  |  |
|                                                     |            |                 |            | 50      | 25        | 22.41                   | 23.11              | 30               | -6.89       |  |  |
|                                                     |            |                 |            | 100     | 0         | 22.40                   | 23.10              | 30               | -6.9        |  |  |
|                                                     | 20050      | 1720            | 16QAM      | 1       | 0         | 23.14                   | 23.84              | 30               | -6.16       |  |  |
|                                                     |            |                 |            | 1       | 99        | 22.44                   | 23.14              | 30               | -6.86       |  |  |
|                                                     |            |                 |            | 50      | 25        | 21.42                   | 22.12              | 30               | -7.88       |  |  |
|                                                     |            |                 |            | 100     | 0         | 21.45                   | 22.15              | 30               | -7.85       |  |  |
|                                                     | 20175      | 1732.5          | 16QAM      | 1       | 0         | 22.56                   | 23.26              | 30               | -6.74       |  |  |
|                                                     |            |                 |            | 1       | 99        | 22.43                   | 23.13              | 30               | -6.87       |  |  |
|                                                     |            |                 |            | 50      | 25        | 21.40                   | 22.10              | 30               | -7.9        |  |  |
|                                                     |            |                 |            | 100     | 0         | 21.31                   | 22.01              | 30               | -7.99       |  |  |
|                                                     | 20300      | 1745            | 16QAM      | 1       | 0         | 22.60                   | 23.30              | 30               | -6.7        |  |  |
|                                                     |            |                 |            | 1       | 99        | 22.80                   | 23.50              | 30               | -6.5        |  |  |
|                                                     |            |                 |            | 50      | 25        | 21.50                   | 22.20              | 30               | -7.8        |  |  |
|                                                     |            |                 |            | 100     | 0         | 21.43                   | 22.13              | 30               | -7.87       |  |  |
|                                                     | 20050      | 1720            | 64QAM      | 1       | 0         | 22.47                   | 23.17              | 30               | -6.83       |  |  |
|                                                     |            |                 |            | 1       | 99        | 22.29                   | 22.99              | 30               | -7.01       |  |  |
|                                                     |            |                 |            | 50      | 25        | 21.46                   | 22.16              | 30               | -7.84       |  |  |
|                                                     |            |                 |            | 100     | 0         | 21.46                   | 22.16              | 30               | -7.84       |  |  |
|                                                     | 20175      | 1732.5          | 64QAM      | 1       | 0         | 22.48                   | 23.18              | 30               | -6.82       |  |  |
|                                                     |            |                 |            | 1       | 99        | 22.29                   | 22.99              | 30               | -7.01       |  |  |
|                                                     |            |                 |            | 50      | 25        | 21.36                   | 22.06              | 30               | -7.94       |  |  |
|                                                     |            |                 |            | 100     | 0         | 21.31                   | 22.01              | 30               | -7.99       |  |  |
|                                                     | 20300      | 1745            | 64QAM      | 1       | 0         | 22.49                   | 23.19              | 30               | -6.81       |  |  |
|                                                     |            |                 |            | 1       | 99        | 22.48                   | 23.18              | 30               | -6.82       |  |  |
|                                                     |            |                 |            | 50      | 25        | 21.34                   | 22.04              | 30               | -7.96       |  |  |
|                                                     |            |                 |            | 100     | 0         | 21.34                   | 22.04              | 30               | -7.96       |  |  |
|                                                     | 20050      | 1720            | 256QAM     | 1       | 0         | 19.36                   | 20.06              | 30               | -9.94       |  |  |
|                                                     |            |                 |            | 1       | 99        | 19.31                   | 20.01              | 30               | -9.99       |  |  |
|                                                     |            |                 |            | 50      | 25        | 18.62                   | 19.32              | 30               | -10.68      |  |  |
|                                                     |            |                 |            | 100     | 0         | 18.68                   | 19.38              | 30               | -10.62      |  |  |
|                                                     | 20175      | 1732.5          | 256QAM     | 1       | 0         | 19.38                   | 20.08              | 30               | -9.92       |  |  |
|                                                     |            |                 |            | 1       | 99        | 19.43                   | 20.13              | 30               | -9.87       |  |  |
|                                                     |            |                 |            | 50      | 25        | 18.61                   | 19.31              | 30               | -10.69      |  |  |
|                                                     |            |                 |            | 100     | 0         | 18.69                   | 19.39              | 30               | -10.61      |  |  |
|                                                     | 20300      | 1745            | 256QAM     | 1       | 0         | 19.41                   | 20.11              | 30               | -9.89       |  |  |
|                                                     |            |                 |            | 1       | 99        | 19.36                   | 20.06              | 30               | -9.94       |  |  |
|                                                     |            |                 |            | 50      | 25        | 18.62                   | 19.32              | 30               | -10.68      |  |  |
|                                                     |            |                 |            | 100     | 0         | 18.67                   | 19.37              | 30               | -10.63      |  |  |

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| Antenna gain (dBi)                                |            | -1.8            |            |         |           |                         |                   |                    |                 |             |
|---------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                 |             |
| BW (MHz)                                          | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4                                               | 20407      | 824.7           | QPSK       | 1       | 0         | 23.01                   | 19.06             | 21.21              | 38.45           | -19.39      |
|                                                   |            |                 |            | 1       | 5         | 23.03                   | 19.08             | 21.23              | 38.45           | -19.37      |
|                                                   |            |                 |            | 3       | 2         | 23.07                   | 19.12             | 21.27              | 38.45           | -19.33      |
|                                                   |            |                 |            | 6       | 0         | 22.11                   | 18.16             | 20.31              | 38.45           | -20.29      |
|                                                   | 20525      | 836.5           | QPSK       | 1       | 0         | 22.87                   | 18.92             | 21.07              | 38.45           | -19.53      |
|                                                   |            |                 |            | 1       | 5         | 22.92                   | 18.97             | 21.12              | 38.45           | -19.48      |
|                                                   |            |                 |            | 3       | 2         | 23.03                   | 19.08             | 21.23              | 38.45           | -19.37      |
|                                                   |            |                 |            | 6       | 0         | 21.97                   | 18.02             | 20.17              | 38.45           | -20.43      |
|                                                   | 20643      | 848.3           | QPSK       | 1       | 0         | 22.68                   | 18.73             | 20.88              | 38.45           | -19.72      |
|                                                   |            |                 |            | 1       | 5         | 22.87                   | 18.92             | 21.07              | 38.45           | -19.53      |
|                                                   |            |                 |            | 3       | 2         | 22.58                   | 18.63             | 20.78              | 38.45           | -19.82      |
|                                                   |            |                 |            | 6       | 0         | 21.70                   | 17.75             | 19.90              | 38.45           | -20.70      |
|                                                   | 20407      | 824.7           | 16QAM      | 1       | 0         | 22.30                   | 18.35             | 20.50              | 38.45           | -20.10      |
|                                                   |            |                 |            | 1       | 5         | 22.24                   | 18.29             | 20.44              | 38.45           | -20.16      |
|                                                   |            |                 |            | 3       | 2         | 22.25                   | 18.30             | 20.45              | 38.45           | -20.15      |
|                                                   |            |                 |            | 6       | 0         | 21.12                   | 17.17             | 19.32              | 38.45           | -21.28      |
|                                                   | 20525      | 836.5           | 16QAM      | 1       | 0         | 21.88                   | 17.93             | 20.08              | 38.45           | -20.52      |
|                                                   |            |                 |            | 1       | 5         | 21.94                   | 17.99             | 20.14              | 38.45           | -20.46      |
|                                                   |            |                 |            | 3       | 2         | 22.15                   | 18.20             | 20.35              | 38.45           | -20.25      |
|                                                   |            |                 |            | 6       | 0         | 21.04                   | 17.09             | 19.24              | 38.45           | -21.36      |
|                                                   | 20643      | 848.3           | 16QAM      | 1       | 0         | 22.23                   | 18.28             | 20.43              | 38.45           | -20.17      |
|                                                   |            |                 |            | 1       | 5         | 21.91                   | 17.96             | 20.11              | 38.45           | -20.49      |
|                                                   |            |                 |            | 3       | 2         | 21.68                   | 17.73             | 19.88              | 38.45           | -20.72      |
|                                                   |            |                 |            | 6       | 0         | 20.69                   | 16.74             | 18.89              | 38.45           | -21.71      |
|                                                   | 20407      | 824.7           | 64QAM      | 1       | 0         | 22.31                   | 18.36             | 20.51              | 38.45           | -20.09      |
|                                                   |            |                 |            | 1       | 5         | 22.48                   | 18.53             | 20.68              | 38.45           | -19.92      |
|                                                   |            |                 |            | 3       | 2         | 22.18                   | 18.23             | 20.38              | 38.45           | -20.22      |
|                                                   |            |                 |            | 6       | 0         | 21.11                   | 17.16             | 19.31              | 38.45           | -21.29      |
|                                                   | 20525      | 836.5           | 64QAM      | 1       | 0         | 22.43                   | 18.48             | 20.63              | 38.45           | -19.97      |
|                                                   |            |                 |            | 1       | 5         | 22.12                   | 18.17             | 20.32              | 38.45           | -20.28      |
|                                                   |            |                 |            | 3       | 2         | 22.02                   | 18.07             | 20.22              | 38.45           | -20.38      |
|                                                   |            |                 |            | 6       | 0         | 20.98                   | 17.03             | 19.18              | 38.45           | -21.42      |
|                                                   | 20643      | 848.3           | 64QAM      | 1       | 0         | 21.97                   | 18.02             | 20.17              | 38.45           | -20.43      |
|                                                   |            |                 |            | 1       | 5         | 21.74                   | 17.79             | 19.94              | 38.45           | -20.66      |
|                                                   |            |                 |            | 3       | 2         | 21.75                   | 17.80             | 19.95              | 38.45           | -20.65      |
|                                                   |            |                 |            | 6       | 0         | 20.68                   | 16.73             | 18.88              | 38.45           | -21.72      |
|                                                   | 20407      | 824.7           | 256QAM     | 1       | 0         | 19.90                   | 15.95             | 18.10              | 38.45           | -22.50      |
|                                                   |            |                 |            | 1       | 5         | 20.31                   | 16.36             | 18.51              | 38.45           | -22.09      |
|                                                   |            |                 |            | 3       | 2         | 19.70                   | 15.75             | 17.90              | 38.45           | -22.70      |
|                                                   |            |                 |            | 6       | 0         | 19.62                   | 15.67             | 17.82              | 38.45           | -22.78      |
|                                                   | 20525      | 836.5           | 256QAM     | 1       | 0         | 20.22                   | 16.27             | 18.42              | 38.45           | -22.18      |
|                                                   |            |                 |            | 1       | 5         | 20.06                   | 16.11             | 18.26              | 38.45           | -22.34      |
|                                                   |            |                 |            | 3       | 2         | 19.73                   | 15.78             | 17.93              | 38.45           | -22.67      |
|                                                   |            |                 |            | 6       | 0         | 19.56                   | 15.61             | 17.76              | 38.45           | -22.84      |
|                                                   | 20643      | 848.3           | 256QAM     | 1       | 0         | 20.16                   | 16.21             | 18.36              | 38.45           | -22.24      |
|                                                   |            |                 |            | 1       | 5         | 20.09                   | 16.14             | 18.29              | 38.45           | -22.31      |
|                                                   |            |                 |            | 3       | 2         | 19.59                   | 15.64             | 17.79              | 38.45           | -22.81      |
|                                                   |            |                 |            | 6       | 0         | 19.58                   | 15.63             | 17.78              | 38.45           | -22.82      |

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| Antenna gain (dBi)                                |               | -1.8               |            |            |              |                               |                         |                          |                       |                |
|---------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|-----------------------|----------------|
| LTE Band 5 Uplink frequency band : 824 to 849 MHz |               |                    |            |            |              |                               |                         |                          |                       |                |
| BW<br>(MHz)                                       | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | ERP<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | ERP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 3                                                 | 20415         | 825.5              | QPSK       | 1          | 0            | 22.70                         | 18.75                   | 20.90                    | 38.45                 | -19.70         |
|                                                   |               |                    |            | 1          | 14           | 22.71                         | 18.76                   | 20.91                    | 38.45                 | -19.69         |
|                                                   |               |                    |            | 8          | 4            | 21.90                         | 17.95                   | 20.10                    | 38.45                 | -20.50         |
|                                                   |               |                    |            | 15         | 0            | 21.88                         | 17.93                   | 20.08                    | 38.45                 | -20.52         |
|                                                   | 20525         | 836.5              | QPSK       | 1          | 0            | 22.84                         | 18.89                   | 21.04                    | 38.45                 | -19.56         |
|                                                   |               |                    |            | 1          | 14           | 22.87                         | 18.92                   | 21.07                    | 38.45                 | -19.53         |
|                                                   |               |                    |            | 8          | 4            | 22.04                         | 18.09                   | 20.24                    | 38.45                 | -20.36         |
|                                                   |               |                    |            | 15         | 0            | 21.86                         | 17.91                   | 20.06                    | 38.45                 | -20.54         |
|                                                   | 20635         | 847.5              | QPSK       | 1          | 0            | 22.75                         | 18.80                   | 20.95                    | 38.45                 | -19.65         |
|                                                   |               |                    |            | 1          | 14           | 22.58                         | 18.63                   | 20.78                    | 38.45                 | -19.82         |
|                                                   |               |                    |            | 8          | 4            | 21.75                         | 17.80                   | 19.95                    | 38.45                 | -20.65         |
|                                                   |               |                    |            | 15         | 0            | 22.02                         | 18.07                   | 20.22                    | 38.45                 | -20.38         |
|                                                   | 20415         | 825.5              | 16QAM      | 1          | 0            | 22.28                         | 18.33                   | 20.48                    | 38.45                 | -20.12         |
|                                                   |               |                    |            | 1          | 14           | 21.72                         | 17.77                   | 19.92                    | 38.45                 | -20.68         |
|                                                   |               |                    |            | 8          | 4            | 21.02                         | 17.07                   | 19.22                    | 38.45                 | -21.38         |
|                                                   |               |                    |            | 15         | 0            | 20.89                         | 16.94                   | 19.09                    | 38.45                 | -21.51         |
|                                                   | 20525         | 836.5              | 16QAM      | 1          | 0            | 22.54                         | 18.59                   | 20.74                    | 38.45                 | -19.86         |
|                                                   |               |                    |            | 1          | 14           | 22.23                         | 18.28                   | 20.43                    | 38.45                 | -20.17         |
|                                                   |               |                    |            | 8          | 4            | 20.79                         | 16.84                   | 18.99                    | 38.45                 | -21.61         |
|                                                   |               |                    |            | 15         | 0            | 20.89                         | 16.94                   | 19.09                    | 38.45                 | -21.51         |
|                                                   | 20635         | 847.5              | 16QAM      | 1          | 0            | 22.12                         | 18.17                   | 20.32                    | 38.45                 | -20.28         |
|                                                   |               |                    |            | 1          | 14           | 21.96                         | 18.01                   | 20.16                    | 38.45                 | -20.44         |
|                                                   |               |                    |            | 8          | 4            | 20.82                         | 16.87                   | 19.02                    | 38.45                 | -21.58         |
|                                                   |               |                    |            | 15         | 0            | 20.91                         | 16.96                   | 19.11                    | 38.45                 | -21.49         |
|                                                   | 20415         | 825.5              | 64QAM      | 1          | 0            | 22.38                         | 18.43                   | 20.58                    | 38.45                 | -20.02         |
|                                                   |               |                    |            | 1          | 14           | 22.46                         | 18.51                   | 20.66                    | 38.45                 | -19.94         |
|                                                   |               |                    |            | 8          | 4            | 21.19                         | 17.24                   | 19.39                    | 38.45                 | -21.21         |
|                                                   |               |                    |            | 15         | 0            | 20.92                         | 16.97                   | 19.12                    | 38.45                 | -21.48         |
|                                                   | 20525         | 836.5              | 64QAM      | 1          | 0            | 22.49                         | 18.54                   | 20.69                    | 38.45                 | -19.91         |
|                                                   |               |                    |            | 1          | 14           | 22.10                         | 18.15                   | 20.30                    | 38.45                 | -20.30         |
|                                                   |               |                    |            | 8          | 4            | 21.02                         | 17.07                   | 19.22                    | 38.45                 | -21.38         |
|                                                   |               |                    |            | 15         | 0            | 20.99                         | 17.04                   | 19.19                    | 38.45                 | -21.41         |
|                                                   | 20635         | 847.5              | 64QAM      | 1          | 0            | 22.33                         | 18.38                   | 20.53                    | 38.45                 | -20.07         |
|                                                   |               |                    |            | 1          | 14           | 21.71                         | 17.76                   | 19.91                    | 38.45                 | -20.69         |
|                                                   |               |                    |            | 8          | 4            | 21.07                         | 17.12                   | 19.27                    | 38.45                 | -21.33         |
|                                                   |               |                    |            | 15         | 0            | 20.68                         | 16.73                   | 18.88                    | 38.45                 | -21.72         |
|                                                   | 20415         | 825.5              | 256QAM     | 1          | 0            | 20.07                         | 16.12                   | 18.27                    | 38.45                 | -22.33         |
|                                                   |               |                    |            | 1          | 14           | 20.35                         | 16.40                   | 18.55                    | 38.45                 | -22.05         |
|                                                   |               |                    |            | 8          | 4            | 19.85                         | 15.90                   | 18.05                    | 38.45                 | -22.55         |
|                                                   |               |                    |            | 15         | 0            | 19.78                         | 15.83                   | 17.98                    | 38.45                 | -22.62         |
|                                                   | 20525         | 836.5              | 256QAM     | 1          | 0            | 20.39                         | 16.44                   | 18.59                    | 38.45                 | -22.01         |
|                                                   |               |                    |            | 1          | 14           | 20.17                         | 16.22                   | 18.37                    | 38.45                 | -22.23         |
|                                                   |               |                    |            | 8          | 4            | 19.76                         | 15.81                   | 17.96                    | 38.45                 | -22.64         |
|                                                   |               |                    |            | 15         | 0            | 19.63                         | 15.68                   | 17.83                    | 38.45                 | -22.77         |
|                                                   | 20635         | 847.5              | 256QAM     | 1          | 0            | 20.30                         | 16.35                   | 18.50                    | 38.45                 | -22.10         |
|                                                   |               |                    |            | 1          | 14           | 20.23                         | 16.28                   | 18.43                    | 38.45                 | -22.17         |
|                                                   |               |                    |            | 8          | 4            | 19.68                         | 15.73                   | 17.88                    | 38.45                 | -22.72         |
|                                                   |               |                    |            | 15         | 0            | 19.74                         | 15.79                   | 17.94                    | 38.45                 | -22.66         |

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| Antenna gain (dBi)                                |               | -1.8               |            |            |              |                               |                         |                          |                       |                |
|---------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|-----------------------|----------------|
| LTE Band 5 Uplink frequency band : 824 to 849 MHz |               |                    |            |            |              |                               |                         |                          |                       |                |
| BW<br>(MHz)                                       | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | ERP<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | ERP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 5                                                 | 20425         | 826.5              | QPSK       | 1          | 0            | 22.89                         | 18.94                   | 21.09                    | 38.45                 | -19.51         |
|                                                   |               |                    |            | 1          | 24           | 22.76                         | 18.81                   | 20.96                    | 38.45                 | -19.64         |
|                                                   |               |                    |            | 12         | 6            | 21.92                         | 17.97                   | 20.12                    | 38.45                 | -20.48         |
|                                                   |               |                    |            | 25         | 0            | 22.05                         | 18.10                   | 20.25                    | 38.45                 | -20.35         |
|                                                   | 20525         | 836.5              | QPSK       | 1          | 0            | 23.01                         | 19.06                   | 21.21                    | 38.45                 | -19.39         |
|                                                   |               |                    |            | 1          | 24           | 22.98                         | 19.03                   | 21.18                    | 38.45                 | -19.42         |
|                                                   |               |                    |            | 12         | 6            | 22.05                         | 18.10                   | 20.25                    | 38.45                 | -20.35         |
|                                                   |               |                    |            | 25         | 0            | 22.05                         | 18.10                   | 20.25                    | 38.45                 | -20.35         |
|                                                   | 20625         | 846.5              | QPSK       | 1          | 0            | 22.82                         | 18.87                   | 21.02                    | 38.45                 | -19.58         |
|                                                   |               |                    |            | 1          | 24           | 22.68                         | 18.73                   | 20.88                    | 38.45                 | -19.72         |
|                                                   |               |                    |            | 12         | 6            | 21.85                         | 17.90                   | 20.05                    | 38.45                 | -20.55         |
|                                                   |               |                    |            | 25         | 0            | 22.02                         | 18.07                   | 20.22                    | 38.45                 | -20.38         |
|                                                   | 20425         | 826.5              | 16QAM      | 1          | 0            | 22.28                         | 18.33                   | 20.48                    | 38.45                 | -20.12         |
|                                                   |               |                    |            | 1          | 24           | 21.89                         | 17.94                   | 20.09                    | 38.45                 | -20.51         |
|                                                   |               |                    |            | 12         | 6            | 21.08                         | 17.13                   | 19.28                    | 38.45                 | -21.32         |
|                                                   |               |                    |            | 25         | 0            | 21.02                         | 17.07                   | 19.22                    | 38.45                 | -21.38         |
|                                                   | 20525         | 836.5              | 16QAM      | 1          | 0            | 22.58                         | 18.63                   | 20.78                    | 38.45                 | -19.82         |
|                                                   |               |                    |            | 1          | 24           | 22.35                         | 18.40                   | 20.55                    | 38.45                 | -20.05         |
|                                                   |               |                    |            | 12         | 6            | 20.92                         | 16.97                   | 19.12                    | 38.45                 | -21.48         |
|                                                   |               |                    |            | 25         | 0            | 21.05                         | 17.10                   | 19.25                    | 38.45                 | -21.35         |
|                                                   | 20625         | 846.5              | 16QAM      | 1          | 0            | 22.25                         | 18.30                   | 20.45                    | 38.45                 | -20.15         |
|                                                   |               |                    |            | 1          | 24           | 22.11                         | 18.16                   | 20.31                    | 38.45                 | -20.29         |
|                                                   |               |                    |            | 12         | 6            | 20.98                         | 17.03                   | 19.18                    | 38.45                 | -21.42         |
|                                                   |               |                    |            | 25         | 0            | 20.93                         | 16.98                   | 19.13                    | 38.45                 | -21.47         |
|                                                   | 20425         | 826.5              | 64QAM      | 1          | 0            | 22.49                         | 18.54                   | 20.69                    | 38.45                 | -19.91         |
|                                                   |               |                    |            | 1          | 24           | 22.46                         | 18.51                   | 20.66                    | 38.45                 | -19.94         |
|                                                   |               |                    |            | 12         | 6            | 21.27                         | 17.32                   | 19.47                    | 38.45                 | -21.13         |
|                                                   |               |                    |            | 25         | 0            | 22.44                         | 18.49                   | 20.64                    | 38.45                 | -19.96         |
|                                                   | 20525         | 836.5              | 64QAM      | 1          | 0            | 22.35                         | 18.40                   | 20.55                    | 38.45                 | -20.05         |
|                                                   |               |                    |            | 1          | 24           | 22.19                         | 18.24                   | 20.39                    | 38.45                 | -20.21         |
|                                                   |               |                    |            | 12         | 6            | 21.12                         | 17.17                   | 19.32                    | 38.45                 | -21.28         |
|                                                   |               |                    |            | 25         | 0            | 21.17                         | 17.22                   | 19.37                    | 38.45                 | -21.23         |
|                                                   | 20625         | 846.5              | 64QAM      | 1          | 0            | 22.45                         | 18.50                   | 20.65                    | 38.45                 | -19.95         |
|                                                   |               |                    |            | 1          | 24           | 21.85                         | 17.90                   | 20.05                    | 38.45                 | -20.55         |
|                                                   |               |                    |            | 12         | 6            | 21.07                         | 17.12                   | 19.27                    | 38.45                 | -21.33         |
|                                                   |               |                    |            | 25         | 0            | 20.87                         | 16.92                   | 19.07                    | 38.45                 | -21.53         |
|                                                   | 20425         | 826.5              | 256QAM     | 1          | 0            | 20.41                         | 16.46                   | 18.61                    | 38.45                 | -21.99         |
|                                                   |               |                    |            | 1          | 24           | 20.35                         | 16.40                   | 18.55                    | 38.45                 | -22.05         |
|                                                   |               |                    |            | 12         | 6            | 19.91                         | 15.96                   | 18.11                    | 38.45                 | -22.49         |
|                                                   |               |                    |            | 25         | 0            | 19.82                         | 15.87                   | 18.02                    | 38.45                 | -22.58         |
|                                                   | 20525         | 836.5              | 256QAM     | 1          | 0            | 20.44                         | 16.49                   | 18.64                    | 38.45                 | -21.96         |
|                                                   |               |                    |            | 1          | 24           | 20.23                         | 16.28                   | 18.43                    | 38.45                 | -22.17         |
|                                                   |               |                    |            | 12         | 6            | 19.80                         | 15.85                   | 18.00                    | 38.45                 | -22.60         |
|                                                   |               |                    |            | 25         | 0            | 19.81                         | 15.86                   | 18.01                    | 38.45                 | -22.59         |
|                                                   | 20625         | 846.5              | 256QAM     | 1          | 0            | 20.47                         | 16.52                   | 18.67                    | 38.45                 | -21.93         |
|                                                   |               |                    |            | 1          | 24           | 20.28                         | 16.33                   | 18.48                    | 38.45                 | -22.12         |
|                                                   |               |                    |            | 12         | 6            | 19.74                         | 15.79                   | 17.94                    | 38.45                 | -22.66         |
|                                                   |               |                    |            | 25         | 0            | 19.83                         | 15.88                   | 18.03                    | 38.45                 | -22.57         |

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| Antenna gain (dBi)                                |               | -1.8               |            |            |              |                               |                         |                          |                       |                |
|---------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|-----------------------|----------------|
| LTE Band 5 Uplink frequency band : 824 to 849 MHz |               |                    |            |            |              |                               |                         |                          |                       |                |
| BW<br>(MHz)                                       | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | ERP<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | ERP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 10                                                | 20450         | 829                | QPSK       | 1          | 0            | 23.03                         | 19.08                   | 21.23                    | 38.45                 | -19.37         |
|                                                   |               |                    |            | 1          | 49           | 22.87                         | 18.92                   | 21.07                    | 38.45                 | -19.53         |
|                                                   |               |                    |            | 25         | 12           | 22.11                         | 18.16                   | 20.31                    | 38.45                 | -20.29         |
|                                                   |               |                    |            | 50         | 0            | 22.22                         | 18.27                   | 20.42                    | 38.45                 | -20.18         |
|                                                   | 20525         | 836.5              | QPSK       | 1          | 0            | 23.09                         | 19.14                   | 21.29                    | 38.45                 | -19.31         |
|                                                   |               |                    |            | 1          | 49           | 23.07                         | 19.12                   | 21.27                    | 38.45                 | -19.33         |
|                                                   |               |                    |            | 25         | 12           | 22.07                         | 18.12                   | 20.27                    | 38.45                 | -20.33         |
|                                                   |               |                    |            | 50         | 0            | 22.17                         | 18.22                   | 20.37                    | 38.45                 | -20.23         |
|                                                   | 20600         | 844                | QPSK       | 1          | 0            | 22.98                         | 19.03                   | 21.18                    | 38.45                 | -19.42         |
|                                                   |               |                    |            | 1          | 49           | 22.54                         | 18.59                   | 20.74                    | 38.45                 | -19.86         |
|                                                   |               |                    |            | 25         | 12           | 22.00                         | 18.05                   | 20.20                    | 38.45                 | -20.40         |
|                                                   |               |                    |            | 50         | 0            | 22.05                         | 18.10                   | 20.25                    | 38.45                 | -20.35         |
|                                                   | 20450         | 829                | 16QAM      | 1          | 0            | 22.36                         | 18.41                   | 20.56                    | 38.45                 | -20.04         |
|                                                   |               |                    |            | 1          | 49           | 21.92                         | 17.97                   | 20.12                    | 38.45                 | -20.48         |
|                                                   |               |                    |            | 25         | 12           | 21.15                         | 17.20                   | 19.35                    | 38.45                 | -21.25         |
|                                                   |               |                    |            | 50         | 0            | 21.21                         | 17.26                   | 19.41                    | 38.45                 | -21.19         |
|                                                   | 20525         | 836.5              | 16QAM      | 1          | 0            | 22.75                         | 18.80                   | 20.95                    | 38.45                 | -19.65         |
|                                                   |               |                    |            | 1          | 49           | 22.35                         | 18.40                   | 20.55                    | 38.45                 | -20.05         |
|                                                   |               |                    |            | 25         | 12           | 21.08                         | 17.13                   | 19.28                    | 38.45                 | -21.32         |
|                                                   |               |                    |            | 50         | 0            | 21.08                         | 17.13                   | 19.28                    | 38.45                 | -21.32         |
|                                                   | 20600         | 844                | 16QAM      | 1          | 0            | 22.33                         | 18.38                   | 20.53                    | 38.45                 | -20.07         |
|                                                   |               |                    |            | 1          | 49           | 22.28                         | 18.33                   | 20.48                    | 38.45                 | -20.12         |
|                                                   |               |                    |            | 25         | 12           | 21.09                         | 17.14                   | 19.29                    | 38.45                 | -21.31         |
|                                                   |               |                    |            | 50         | 0            | 21.03                         | 17.08                   | 19.23                    | 38.45                 | -21.37         |
|                                                   | 20450         | 829                | 64QAM      | 1          | 0            | 22.48                         | 18.53                   | 20.68                    | 38.45                 | -19.92         |
|                                                   |               |                    |            | 1          | 49           | 22.49                         | 18.54                   | 20.69                    | 38.45                 | -19.91         |
|                                                   |               |                    |            | 25         | 12           | 21.27                         | 17.32                   | 19.47                    | 38.45                 | -21.13         |
|                                                   |               |                    |            | 50         | 0            | 21.16                         | 17.21                   | 19.36                    | 38.45                 | -21.24         |
|                                                   | 20525         | 836.5              | 64QAM      | 1          | 0            | 22.47                         | 18.52                   | 20.67                    | 38.45                 | -19.93         |
|                                                   |               |                    |            | 1          | 49           | 22.25                         | 18.30                   | 20.45                    | 38.45                 | -20.15         |
|                                                   |               |                    |            | 25         | 12           | 21.15                         | 17.20                   | 19.35                    | 38.45                 | -21.25         |
|                                                   |               |                    |            | 50         | 0            | 21.21                         | 17.26                   | 19.41                    | 38.45                 | -21.19         |
|                                                   | 20600         | 844                | 64QAM      | 1          | 0            | 22.46                         | 18.51                   | 20.66                    | 38.45                 | -19.94         |
|                                                   |               |                    |            | 1          | 49           | 21.86                         | 17.91                   | 20.06                    | 38.45                 | -20.54         |
|                                                   |               |                    |            | 25         | 12           | 21.15                         | 17.20                   | 19.35                    | 38.45                 | -21.25         |
|                                                   |               |                    |            | 50         | 0            | 21.06                         | 17.11                   | 19.26                    | 38.45                 | -21.34         |
|                                                   | 20450         | 829                | 256QAM     | 1          | 0            | 20.34                         | 16.39                   | 18.54                    | 38.45                 | -22.06         |
|                                                   |               |                    |            | 1          | 49           | 20.50                         | 16.55                   | 18.70                    | 38.45                 | -21.90         |
|                                                   |               |                    |            | 25         | 12           | 19.93                         | 15.98                   | 18.13                    | 38.45                 | -22.47         |
|                                                   |               |                    |            | 50         | 0            | 19.98                         | 16.03                   | 18.18                    | 38.45                 | -22.42         |
|                                                   | 20525         | 836.5              | 256QAM     | 1          | 0            | 20.44                         | 16.49                   | 18.64                    | 38.45                 | -21.96         |
|                                                   |               |                    |            | 1          | 49           | 20.40                         | 16.45                   | 18.60                    | 38.45                 | -22.00         |
|                                                   |               |                    |            | 25         | 12           | 19.86                         | 15.91                   | 18.06                    | 38.45                 | -22.54         |
|                                                   |               |                    |            | 50         | 0            | 19.81                         | 15.86                   | 18.01                    | 38.45                 | -22.59         |
|                                                   | 20600         | 844                | 256QAM     | 1          | 0            | 20.47                         | 16.52                   | 18.67                    | 38.45                 | -21.93         |
|                                                   |               |                    |            | 1          | 49           | 20.43                         | 16.48                   | 18.63                    | 38.45                 | -21.97         |
|                                                   |               |                    |            | 25         | 12           | 19.81                         | 15.86                   | 18.01                    | 38.45                 | -22.59         |
|                                                   |               |                    |            | 50         | 0            | 19.91                         | 15.96                   | 18.11                    | 38.45                 | -22.49         |

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| Antenna gain (dBi)                                  |               | -0.5               |            |            |              |                               |                          |                        |                |
|-----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz |               |                    |            |            |              |                               |                          |                        |                |
| BW<br>(MHz)                                         | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 5                                                   | 20775         | 2502.5             | QPSK       | 1          | 0            | 22.43                         | 21.93                    | 33                     | -11.07         |
|                                                     |               |                    |            | 1          | 24           | 22.45                         | 21.95                    | 33                     | -11.05         |
|                                                     |               |                    |            | 12         | 6            | 21.62                         | 21.12                    | 33                     | -11.88         |
|                                                     |               |                    |            | 25         | 0            | 21.56                         | 21.06                    | 33                     | -11.94         |
|                                                     | 21100         | 2535               | QPSK       | 1          | 0            | 22.37                         | 21.87                    | 33                     | -11.13         |
|                                                     |               |                    |            | 1          | 24           | 22.41                         | 21.91                    | 33                     | -11.09         |
|                                                     |               |                    |            | 12         | 6            | 21.60                         | 21.10                    | 33                     | -11.9          |
|                                                     |               |                    |            | 25         | 0            | 21.63                         | 21.13                    | 33                     | -11.87         |
|                                                     | 21375         | 2567.5             | QPSK       | 1          | 0            | 22.46                         | 21.96                    | 33                     | -11.04         |
|                                                     |               |                    |            | 1          | 24           | 22.47                         | 21.97                    | 33                     | -11.03         |
|                                                     |               |                    |            | 12         | 6            | 21.66                         | 21.16                    | 33                     | -11.84         |
|                                                     |               |                    |            | 25         | 0            | 21.68                         | 21.18                    | 33                     | -11.82         |
|                                                     | 20775         | 2502.5             | 16QAM      | 1          | 0            | 21.74                         | 21.24                    | 33                     | -11.76         |
|                                                     |               |                    |            | 1          | 24           | 21.66                         | 21.16                    | 33                     | -11.84         |
|                                                     |               |                    |            | 12         | 6            | 20.65                         | 20.15                    | 33                     | -12.85         |
|                                                     |               |                    |            | 25         | 0            | 20.54                         | 20.04                    | 33                     | -12.96         |
|                                                     | 21100         | 2535               | 16QAM      | 1          | 0            | 21.80                         | 21.30                    | 33                     | -11.7          |
|                                                     |               |                    |            | 1          | 24           | 21.70                         | 21.20                    | 33                     | -11.8          |
|                                                     |               |                    |            | 12         | 6            | 20.65                         | 20.15                    | 33                     | -12.85         |
|                                                     |               |                    |            | 25         | 0            | 20.62                         | 20.12                    | 33                     | -12.88         |
|                                                     | 21375         | 2567.5             | 16QAM      | 1          | 0            | 21.66                         | 21.16                    | 33                     | -11.84         |
|                                                     |               |                    |            | 1          | 24           | 21.64                         | 21.14                    | 33                     | -11.86         |
|                                                     |               |                    |            | 12         | 6            | 20.68                         | 20.18                    | 33                     | -12.82         |
|                                                     |               |                    |            | 25         | 0            | 20.68                         | 20.18                    | 33                     | -12.82         |
|                                                     | 20775         | 2502.5             | 64QAM      | 1          | 0            | 21.50                         | 21.00                    | 33                     | -12            |
|                                                     |               |                    |            | 1          | 24           | 21.46                         | 20.96                    | 33                     | -12.04         |
|                                                     |               |                    |            | 12         | 6            | 20.59                         | 20.09                    | 33                     | -12.91         |
|                                                     |               |                    |            | 25         | 0            | 20.63                         | 20.13                    | 33                     | -12.87         |
|                                                     | 21100         | 2535               | 64QAM      | 1          | 0            | 21.48                         | 20.98                    | 33                     | -12.02         |
|                                                     |               |                    |            | 1          | 24           | 21.44                         | 20.94                    | 33                     | -12.06         |
|                                                     |               |                    |            | 12         | 6            | 20.54                         | 20.04                    | 33                     | -12.96         |
|                                                     |               |                    |            | 25         | 0            | 20.50                         | 20.00                    | 33                     | -13            |
|                                                     | 21375         | 2567.5             | 64QAM      | 1          | 0            | 21.48                         | 20.98                    | 33                     | -12.02         |
|                                                     |               |                    |            | 1          | 24           | 21.47                         | 20.97                    | 33                     | -12.03         |
|                                                     |               |                    |            | 12         | 6            | 20.57                         | 20.07                    | 33                     | -12.93         |
|                                                     |               |                    |            | 25         | 0            | 20.61                         | 20.11                    | 33                     | -12.89         |
|                                                     | 20775         | 2502.5             | 256QAM     | 1          | 0            | 18.49                         | 17.99                    | 33                     | -15.01         |
|                                                     |               |                    |            | 1          | 24           | 18.43                         | 17.93                    | 33                     | -15.07         |
|                                                     |               |                    |            | 12         | 6            | 18.18                         | 17.68                    | 33                     | -15.32         |
|                                                     |               |                    |            | 25         | 0            | 18.30                         | 17.80                    | 33                     | -15.2          |
|                                                     | 21100         | 2535               | 256QAM     | 1          | 0            | 18.47                         | 17.97                    | 33                     | -15.03         |
|                                                     |               |                    |            | 1          | 24           | 18.41                         | 17.91                    | 33                     | -15.09         |
|                                                     |               |                    |            | 12         | 6            | 18.08                         | 17.58                    | 33                     | -15.42         |
|                                                     |               |                    |            | 25         | 0            | 18.10                         | 17.60                    | 33                     | -15.4          |
|                                                     | 21375         | 2567.5             | 256QAM     | 1          | 0            | 18.41                         | 17.91                    | 33                     | -15.09         |
|                                                     |               |                    |            | 1          | 24           | 18.35                         | 17.85                    | 33                     | -15.15         |
|                                                     |               |                    |            | 12         | 6            | 18.04                         | 17.54                    | 33                     | -15.46         |
|                                                     |               |                    |            | 25         | 0            | 18.17                         | 17.67                    | 33                     | -15.33         |

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| Antenna gain (dBi)                                  |            | -0.5            |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                  | 20800      | 2505            | QPSK       | 1       | 0         | 22.29                   | 21.79              | 33               | -11.21      |
|                                                     |            |                 |            | 1       | 49        | 22.53                   | 22.03              | 33               | -10.97      |
|                                                     |            |                 |            | 25      | 12        | 21.45                   | 20.95              | 33               | -12.05      |
|                                                     |            |                 |            | 50      | 0         | 21.46                   | 20.96              | 33               | -12.04      |
|                                                     | 21100      | 2535            | QPSK       | 1       | 0         | 22.28                   | 21.78              | 33               | -11.22      |
|                                                     |            |                 |            | 1       | 49        | 22.39                   | 21.89              | 33               | -11.11      |
|                                                     |            |                 |            | 25      | 12        | 21.45                   | 20.95              | 33               | -12.05      |
|                                                     |            |                 |            | 50      | 0         | 21.48                   | 20.98              | 33               | -12.02      |
|                                                     | 21350      | 2565            | QPSK       | 1       | 0         | 22.24                   | 21.74              | 33               | -11.26      |
|                                                     |            |                 |            | 1       | 49        | 22.54                   | 22.04              | 33               | -10.96      |
|                                                     |            |                 |            | 25      | 12        | 21.47                   | 20.97              | 33               | -12.03      |
|                                                     |            |                 |            | 50      | 0         | 21.48                   | 20.98              | 33               | -12.02      |
|                                                     | 20800      | 2505            | 16QAM      | 1       | 0         | 21.47                   | 20.97              | 33               | -12.03      |
|                                                     |            |                 |            | 1       | 49        | 21.43                   | 20.93              | 33               | -12.07      |
|                                                     |            |                 |            | 25      | 12        | 20.47                   | 19.97              | 33               | -13.03      |
|                                                     |            |                 |            | 50      | 0         | 20.31                   | 19.81              | 33               | -13.19      |
|                                                     | 21100      | 2535            | 16QAM      | 1       | 0         | 21.52                   | 21.02              | 33               | -11.98      |
|                                                     |            |                 |            | 1       | 49        | 21.50                   | 21.00              | 33               | -12         |
|                                                     |            |                 |            | 25      | 12        | 20.48                   | 19.98              | 33               | -13.02      |
|                                                     |            |                 |            | 50      | 0         | 20.48                   | 19.98              | 33               | -13.02      |
|                                                     | 21350      | 2565            | 16QAM      | 1       | 0         | 21.33                   | 20.83              | 33               | -12.17      |
|                                                     |            |                 |            | 1       | 49        | 21.75                   | 21.25              | 33               | -11.75      |
|                                                     |            |                 |            | 25      | 12        | 20.48                   | 19.98              | 33               | -13.02      |
|                                                     |            |                 |            | 50      | 0         | 20.28                   | 19.78              | 33               | -13.22      |
|                                                     | 20800      | 2505            | 64QAM      | 1       | 0         | 21.48                   | 20.98              | 33               | -12.02      |
|                                                     |            |                 |            | 1       | 49        | 21.25                   | 20.75              | 33               | -12.25      |
|                                                     |            |                 |            | 25      | 12        | 20.46                   | 19.96              | 33               | -13.04      |
|                                                     |            |                 |            | 50      | 0         | 20.47                   | 19.97              | 33               | -13.03      |
|                                                     | 21100      | 2535            | 64QAM      | 1       | 0         | 21.32                   | 20.82              | 33               | -12.18      |
|                                                     |            |                 |            | 1       | 49        | 21.49                   | 20.99              | 33               | -12.01      |
|                                                     |            |                 |            | 25      | 12        | 20.34                   | 19.84              | 33               | -13.16      |
|                                                     |            |                 |            | 50      | 0         | 20.67                   | 20.17              | 33               | -12.83      |
|                                                     | 21350      | 2565            | 64QAM      | 1       | 0         | 21.32                   | 20.82              | 33               | -12.18      |
|                                                     |            |                 |            | 1       | 49        | 21.24                   | 20.74              | 33               | -12.26      |
|                                                     |            |                 |            | 25      | 12        | 20.40                   | 19.90              | 33               | -13.1       |
|                                                     |            |                 |            | 50      | 0         | 20.59                   | 20.09              | 33               | -12.91      |
|                                                     | 20800      | 2505            | 256QAM     | 1       | 0         | 18.38                   | 17.88              | 33               | -15.12      |
|                                                     |            |                 |            | 1       | 49        | 18.42                   | 17.92              | 33               | -15.08      |
|                                                     |            |                 |            | 25      | 12        | 18.04                   | 17.54              | 33               | -15.46      |
|                                                     |            |                 |            | 50      | 0         | 18.03                   | 17.53              | 33               | -15.47      |
|                                                     | 21100      | 2535            | 256QAM     | 1       | 0         | 18.32                   | 17.82              | 33               | -15.18      |
|                                                     |            |                 |            | 1       | 49        | 18.45                   | 17.95              | 33               | -15.05      |
|                                                     |            |                 |            | 25      | 12        | 17.94                   | 17.44              | 33               | -15.56      |
|                                                     |            |                 |            | 50      | 0         | 17.98                   | 17.48              | 33               | -15.52      |
|                                                     | 21350      | 2565            | 256QAM     | 1       | 0         | 18.30                   | 17.80              | 33               | -15.2       |
|                                                     |            |                 |            | 1       | 49        | 18.45                   | 17.95              | 33               | -15.05      |
|                                                     |            |                 |            | 25      | 12        | 17.93                   | 17.43              | 33               | -15.57      |
|                                                     |            |                 |            | 50      | 0         | 17.97                   | 17.47              | 33               | -15.53      |

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| Antenna gain (dBi)                                  |            | -0.5            |            |         |           |                         |                    |                  |             |
|-----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                            | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                  | 20825      | 2507.5          | QPSK       | 1       | 0         | 22.37                   | 21.87              | 33               | -11.13      |
|                                                     |            |                 |            | 1       | 74        | 22.64                   | 22.14              | 33               | -10.86      |
|                                                     |            |                 |            | 36      | 18        | 21.55                   | 21.05              | 33               | -11.95      |
|                                                     |            |                 |            | 75      | 0         | 21.48                   | 20.98              | 33               | -12.02      |
|                                                     | 21100      | 2535            | QPSK       | 1       | 0         | 22.42                   | 21.92              | 33               | -11.08      |
|                                                     |            |                 |            | 1       | 74        | 22.53                   | 22.03              | 33               | -10.97      |
|                                                     |            |                 |            | 36      | 18        | 21.56                   | 21.06              | 33               | -11.94      |
|                                                     |            |                 |            | 75      | 0         | 21.65                   | 21.15              | 33               | -11.85      |
|                                                     | 21375      | 2562.5          | QPSK       | 1       | 0         | 22.33                   | 21.83              | 33               | -11.17      |
|                                                     |            |                 |            | 1       | 74        | 22.61                   | 22.11              | 33               | -10.89      |
|                                                     |            |                 |            | 36      | 18        | 21.57                   | 21.07              | 33               | -11.93      |
|                                                     |            |                 |            | 75      | 0         | 21.51                   | 21.01              | 33               | -11.99      |
|                                                     | 20825      | 2507.5          | 16QAM      | 1       | 0         | 21.53                   | 21.03              | 33               | -11.97      |
|                                                     |            |                 |            | 1       | 74        | 21.59                   | 21.09              | 33               | -11.91      |
|                                                     |            |                 |            | 36      | 18        | 20.48                   | 19.98              | 33               | -13.02      |
|                                                     |            |                 |            | 75      | 0         | 20.37                   | 19.87              | 33               | -13.13      |
|                                                     | 21100      | 2535            | 16QAM      | 1       | 0         | 21.71                   | 21.21              | 33               | -11.79      |
|                                                     |            |                 |            | 1       | 74        | 21.53                   | 21.03              | 33               | -11.97      |
|                                                     |            |                 |            | 36      | 18        | 20.56                   | 20.06              | 33               | -12.94      |
|                                                     |            |                 |            | 75      | 0         | 20.54                   | 20.04              | 33               | -12.96      |
|                                                     | 21375      | 2562.5          | 16QAM      | 1       | 0         | 21.48                   | 20.98              | 33               | -12.02      |
|                                                     |            |                 |            | 1       | 74        | 21.94                   | 21.44              | 33               | -11.56      |
|                                                     |            |                 |            | 36      | 18        | 20.50                   | 20.00              | 33               | -13         |
|                                                     |            |                 |            | 75      | 0         | 20.47                   | 19.97              | 33               | -13.03      |
|                                                     | 20825      | 2507.5          | 64QAM      | 1       | 0         | 21.47                   | 20.97              | 33               | -12.03      |
|                                                     |            |                 |            | 1       | 74        | 21.37                   | 20.87              | 33               | -12.13      |
|                                                     |            |                 |            | 36      | 18        | 20.52                   | 20.02              | 33               | -12.98      |
|                                                     |            |                 |            | 75      | 0         | 20.51                   | 20.01              | 33               | -12.99      |
|                                                     | 21100      | 2535            | 64QAM      | 1       | 0         | 21.46                   | 20.96              | 33               | -12.04      |
|                                                     |            |                 |            | 1       | 74        | 21.49                   | 20.99              | 33               | -12.01      |
|                                                     |            |                 |            | 36      | 18        | 20.45                   | 19.95              | 33               | -13.05      |
|                                                     |            |                 |            | 75      | 0         | 20.68                   | 20.18              | 33               | -12.82      |
|                                                     | 21375      | 2562.5          | 64QAM      | 1       | 0         | 21.44                   | 20.94              | 33               | -12.06      |
|                                                     |            |                 |            | 1       | 74        | 21.36                   | 20.86              | 33               | -12.14      |
|                                                     |            |                 |            | 36      | 18        | 20.50                   | 20.00              | 33               | -13         |
|                                                     |            |                 |            | 75      | 0         | 20.64                   | 20.14              | 33               | -12.86      |
|                                                     | 20825      | 2507.5          | 256QAM     | 1       | 0         | 18.31                   | 17.81              | 33               | -15.19      |
|                                                     |            |                 |            | 1       | 74        | 18.46                   | 17.96              | 33               | -15.04      |
|                                                     |            |                 |            | 36      | 18        | 18.02                   | 17.52              | 33               | -15.48      |
|                                                     |            |                 |            | 75      | 0         | 17.93                   | 17.43              | 33               | -15.57      |
|                                                     | 21100      | 2535            | 256QAM     | 1       | 0         | 18.18                   | 17.68              | 33               | -15.32      |
|                                                     |            |                 |            | 1       | 74        | 18.48                   | 17.98              | 33               | -15.02      |
|                                                     |            |                 |            | 36      | 18        | 17.95                   | 17.45              | 33               | -15.55      |
|                                                     |            |                 |            | 75      | 0         | 17.85                   | 17.35              | 33               | -15.65      |
|                                                     | 21375      | 2562.5          | 256QAM     | 1       | 0         | 18.34                   | 17.84              | 33               | -15.16      |
|                                                     |            |                 |            | 1       | 74        | 18.44                   | 17.94              | 33               | -15.06      |
|                                                     |            |                 |            | 36      | 18        | 17.97                   | 17.47              | 33               | -15.53      |
|                                                     |            |                 |            | 75      | 0         | 17.93                   | 17.43              | 33               | -15.57      |

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| Antenna gain (dBi)                                  |               | -0.5               |            |            |              |                               |                          |                        |                |
|-----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz |               |                    |            |            |              |                               |                          |                        |                |
| BW<br>(MHz)                                         | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 20                                                  | 20850         | 2510               | QPSK       | 1          | 0            | 22.55                         | 22.05                    | 33                     | -10.95         |
|                                                     |               |                    |            | 1          | 99           | 22.70                         | 22.20                    | 33                     | -10.8          |
|                                                     |               |                    |            | 50         | 25           | 21.61                         | 21.11                    | 33                     | -11.89         |
|                                                     |               |                    |            | 100        | 0            | 21.58                         | 21.08                    | 33                     | -11.92         |
|                                                     | 21100         | 2535               | QPSK       | 1          | 0            | 22.51                         | 22.01                    | 33                     | -10.99         |
|                                                     |               |                    |            | 1          | 99           | 22.60                         | 22.10                    | 33                     | -10.9          |
|                                                     |               |                    |            | 50         | 25           | 21.62                         | 21.12                    | 33                     | -11.88         |
|                                                     |               |                    |            | 100        | 0            | 21.68                         | 21.18                    | 33                     | -11.82         |
|                                                     | 21350         | 2560               | QPSK       | 1          | 0            | 22.50                         | 22.00                    | 33                     | -11            |
|                                                     |               |                    |            | 1          | 99           | 22.71                         | 22.21                    | 33                     | -10.79         |
|                                                     |               |                    |            | 50         | 25           | 21.67                         | 21.17                    | 33                     | -11.83         |
|                                                     |               |                    |            | 100        | 0            | 21.62                         | 21.12                    | 33                     | -11.88         |
|                                                     | 20850         | 2510               | 16QAM      | 1          | 0            | 21.58                         | 21.08                    | 33                     | -11.92         |
|                                                     |               |                    |            | 1          | 99           | 21.73                         | 21.23                    | 33                     | -11.77         |
|                                                     |               |                    |            | 50         | 25           | 20.57                         | 20.07                    | 33                     | -12.93         |
|                                                     |               |                    |            | 100        | 0            | 20.54                         | 20.04                    | 33                     | -12.96         |
|                                                     | 21100         | 2535               | 16QAM      | 1          | 0            | 21.86                         | 21.36                    | 33                     | -11.64         |
|                                                     |               |                    |            | 1          | 99           | 21.63                         | 21.13                    | 33                     | -11.87         |
|                                                     |               |                    |            | 50         | 25           | 20.71                         | 20.21                    | 33                     | -12.79         |
|                                                     |               |                    |            | 100        | 0            | 20.67                         | 20.17                    | 33                     | -12.83         |
|                                                     | 21350         | 2560               | 16QAM      | 1          | 0            | 21.61                         | 21.11                    | 33                     | -11.89         |
|                                                     |               |                    |            | 1          | 99           | 22.10                         | 21.60                    | 33                     | -11.4          |
|                                                     |               |                    |            | 50         | 25           | 20.67                         | 20.17                    | 33                     | -12.83         |
|                                                     |               |                    |            | 100        | 0            | 20.64                         | 20.14                    | 33                     | -12.86         |
|                                                     | 20850         | 2510               | 64QAM      | 1          | 0            | 21.49                         | 20.99                    | 33                     | -12.01         |
|                                                     |               |                    |            | 1          | 99           | 21.42                         | 20.92                    | 33                     | -12.08         |
|                                                     |               |                    |            | 50         | 25           | 20.57                         | 20.07                    | 33                     | -12.93         |
|                                                     |               |                    |            | 100        | 0            | 20.59                         | 20.09                    | 33                     | -12.91         |
|                                                     | 21100         | 2535               | 64QAM      | 1          | 0            | 21.48                         | 20.98                    | 33                     | -12.02         |
|                                                     |               |                    |            | 1          | 99           | 21.43                         | 20.93                    | 33                     | -12.07         |
|                                                     |               |                    |            | 50         | 25           | 20.60                         | 20.10                    | 33                     | -12.9          |
|                                                     |               |                    |            | 100        | 0            | 20.77                         | 20.27                    | 33                     | -12.73         |
|                                                     | 21350         | 2560               | 64QAM      | 1          | 0            | 21.44                         | 20.94                    | 33                     | -12.06         |
|                                                     |               |                    |            | 1          | 99           | 21.46                         | 20.96                    | 33                     | -12.04         |
|                                                     |               |                    |            | 50         | 25           | 20.68                         | 20.18                    | 33                     | -12.82         |
|                                                     |               |                    |            | 100        | 0            | 20.66                         | 20.16                    | 33                     | -12.84         |
|                                                     | 20850         | 2510               | 256QAM     | 1          | 0            | 18.40                         | 17.90                    | 33                     | -15.1          |
|                                                     |               |                    |            | 1          | 99           | 18.50                         | 18.00                    | 33                     | -15            |
|                                                     |               |                    |            | 50         | 25           | 18.04                         | 17.54                    | 33                     | -15.46         |
|                                                     |               |                    |            | 100        | 0            | 18.00                         | 17.50                    | 33                     | -15.5          |
|                                                     | 21100         | 2535               | 256QAM     | 1          | 0            | 18.36                         | 17.86                    | 33                     | -15.14         |
|                                                     |               |                    |            | 1          | 99           | 18.48                         | 17.98                    | 33                     | -15.02         |
|                                                     |               |                    |            | 50         | 25           | 18.02                         | 17.52                    | 33                     | -15.48         |
|                                                     |               |                    |            | 100        | 0            | 17.87                         | 17.37                    | 33                     | -15.63         |
|                                                     | 21350         | 2560               | 256QAM     | 1          | 0            | 18.40                         | 17.90                    | 33                     | -15.1          |
|                                                     |               |                    |            | 1          | 99           | 18.49                         | 17.99                    | 33                     | -15.01         |
|                                                     |               |                    |            | 50         | 25           | 18.03                         | 17.53                    | 33                     | -15.47         |
|                                                     |               |                    |            | 100        | 0            | 17.98                         | 17.48                    | 33                     | -15.52         |

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| Antenna gain (dBi)                                 |               | -3.8               |            |            |              |                               |                         |                          |                       |                |  |  |
|----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|-----------------------|----------------|--|--|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz |               |                    |            |            |              |                               |                         |                          |                       |                |  |  |
| BW<br>(MHz)                                        | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | ERP<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | ERP<br>Limit<br>(dBm) | Margin<br>(dB) |  |  |
| 1.4                                                | 23017         | 699.7              | QPSK       | 1          | 0            | 22.70                         | 16.75                   | 18.90                    | 34.77                 | -18.02         |  |  |
|                                                    |               |                    |            | 1          | 5            | 22.70                         | 16.75                   | 18.90                    | 34.77                 | -18.02         |  |  |
|                                                    |               |                    |            | 3          | 2            | 22.79                         | 16.84                   | 18.99                    | 34.77                 | -17.93         |  |  |
|                                                    |               |                    |            | 6          | 0            | 21.72                         | 15.77                   | 17.92                    | 34.77                 | -19.00         |  |  |
|                                                    | 23095         | 707.5              | QPSK       | 1          | 0            | 22.66                         | 16.71                   | 18.86                    | 34.77                 | -18.06         |  |  |
|                                                    |               |                    |            | 1          | 5            | 22.78                         | 16.83                   | 18.98                    | 34.77                 | -17.94         |  |  |
|                                                    |               |                    |            | 3          | 2            | 22.76                         | 16.81                   | 18.96                    | 34.77                 | -17.96         |  |  |
|                                                    |               |                    |            | 6          | 0            | 21.70                         | 15.75                   | 17.90                    | 34.77                 | -19.02         |  |  |
|                                                    | 23173         | 715.5              | QPSK       | 1          | 0            | 22.59                         | 16.64                   | 18.79                    | 34.77                 | -18.13         |  |  |
|                                                    |               |                    |            | 1          | 5            | 22.59                         | 16.64                   | 18.79                    | 34.77                 | -18.13         |  |  |
|                                                    |               |                    |            | 3          | 2            | 22.67                         | 16.72                   | 18.87                    | 34.77                 | -18.05         |  |  |
|                                                    |               |                    |            | 6          | 0            | 21.62                         | 15.67                   | 17.82                    | 34.77                 | -19.10         |  |  |
|                                                    | 23017         | 699.7              | 16QAM      | 1          | 0            | 21.77                         | 15.82                   | 17.97                    | 34.77                 | -18.95         |  |  |
|                                                    |               |                    |            | 1          | 5            | 21.88                         | 15.93                   | 18.08                    | 34.77                 | -18.84         |  |  |
|                                                    |               |                    |            | 3          | 2            | 21.85                         | 15.90                   | 18.05                    | 34.77                 | -18.87         |  |  |
|                                                    |               |                    |            | 6          | 0            | 20.84                         | 14.89                   | 17.04                    | 34.77                 | -19.88         |  |  |
|                                                    | 23095         | 707.5              | 16QAM      | 1          | 0            | 22.16                         | 16.21                   | 18.36                    | 34.77                 | -18.56         |  |  |
|                                                    |               |                    |            | 1          | 5            | 21.89                         | 15.94                   | 18.09                    | 34.77                 | -18.83         |  |  |
|                                                    |               |                    |            | 3          | 2            | 21.94                         | 15.99                   | 18.14                    | 34.77                 | -18.78         |  |  |
|                                                    |               |                    |            | 6          | 0            | 20.79                         | 14.84                   | 16.99                    | 34.77                 | -19.93         |  |  |
|                                                    | 23173         | 715.5              | 16QAM      | 1          | 0            | 21.73                         | 15.78                   | 17.93                    | 34.77                 | -18.99         |  |  |
|                                                    |               |                    |            | 1          | 5            | 21.81                         | 15.86                   | 18.01                    | 34.77                 | -18.91         |  |  |
|                                                    |               |                    |            | 3          | 2            | 21.70                         | 15.75                   | 17.90                    | 34.77                 | -19.02         |  |  |
|                                                    |               |                    |            | 6          | 0            | 20.89                         | 14.94                   | 17.09                    | 34.77                 | -19.83         |  |  |
|                                                    | 23017         | 699.7              | 64QAM      | 1          | 0            | 22.23                         | 16.28                   | 18.43                    | 34.77                 | -18.49         |  |  |
|                                                    |               |                    |            | 1          | 5            | 21.93                         | 15.98                   | 18.13                    | 34.77                 | -18.79         |  |  |
|                                                    |               |                    |            | 3          | 2            | 21.74                         | 15.79                   | 17.94                    | 34.77                 | -18.98         |  |  |
|                                                    |               |                    |            | 6          | 0            | 20.63                         | 14.68                   | 16.83                    | 34.77                 | -20.09         |  |  |
|                                                    | 23095         | 707.5              | 64QAM      | 1          | 0            | 21.87                         | 15.92                   | 18.07                    | 34.77                 | -18.85         |  |  |
|                                                    |               |                    |            | 1          | 5            | 21.92                         | 15.97                   | 18.12                    | 34.77                 | -18.80         |  |  |
|                                                    |               |                    |            | 3          | 2            | 21.95                         | 16.00                   | 18.15                    | 34.77                 | -18.77         |  |  |
|                                                    |               |                    |            | 6          | 0            | 20.84                         | 14.89                   | 17.04                    | 34.77                 | -19.88         |  |  |
|                                                    | 23173         | 715.5              | 64QAM      | 1          | 0            | 22.12                         | 16.17                   | 18.32                    | 34.77                 | -18.60         |  |  |
|                                                    |               |                    |            | 1          | 5            | 21.62                         | 15.67                   | 17.82                    | 34.77                 | -19.10         |  |  |
|                                                    |               |                    |            | 3          | 2            | 21.75                         | 15.80                   | 17.95                    | 34.77                 | -18.97         |  |  |
|                                                    |               |                    |            | 6          | 0            | 20.61                         | 14.66                   | 16.81                    | 34.77                 | -20.11         |  |  |
|                                                    | 23017         | 699.7              | 256QAM     | 1          | 0            | 19.17                         | 13.22                   | 15.37                    | 34.77                 | -21.55         |  |  |
|                                                    |               |                    |            | 1          | 5            | 19.17                         | 13.22                   | 15.37                    | 34.77                 | -21.55         |  |  |
|                                                    |               |                    |            | 3          | 2            | 18.97                         | 13.02                   | 15.17                    | 34.77                 | -21.75         |  |  |
|                                                    |               |                    |            | 6          | 0            | 18.28                         | 12.33                   | 14.48                    | 34.77                 | -22.44         |  |  |
|                                                    | 23095         | 707.5              | 256QAM     | 1          | 0            | 19.26                         | 13.31                   | 15.46                    | 34.77                 | -21.46         |  |  |
|                                                    |               |                    |            | 1          | 5            | 19.13                         | 13.18                   | 15.33                    | 34.77                 | -21.59         |  |  |
|                                                    |               |                    |            | 3          | 2            | 19.03                         | 13.08                   | 15.23                    | 34.77                 | -21.69         |  |  |
|                                                    |               |                    |            | 6          | 0            | 18.06                         | 12.11                   | 14.26                    | 34.77                 | -22.66         |  |  |
|                                                    | 23173         | 715.5              | 256QAM     | 1          | 0            | 19.22                         | 13.27                   | 15.42                    | 34.77                 | -21.50         |  |  |
|                                                    |               |                    |            | 1          | 5            | 19.08                         | 13.13                   | 15.28                    | 34.77                 | -21.64         |  |  |
|                                                    |               |                    |            | 3          | 2            | 19.04                         | 13.09                   | 15.24                    | 34.77                 | -21.68         |  |  |
|                                                    |               |                    |            | 6          | 0            | 18.11                         | 12.16                   | 14.31                    | 34.77                 | -22.61         |  |  |

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| Antenna gain (dBi)                                 |               | -3.8               |            |            |              |                               |                         |                          |                       |                |
|----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|-----------------------|----------------|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz |               |                    |            |            |              |                               |                         |                          |                       |                |
| BW<br>(MHz)                                        | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | ERP<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | ERP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 3                                                  | 23025         | 700.5              | QPSK       | 1          | 0            | 22.68                         | 16.73                   | 18.88                    | 34.77                 | -18.04         |
|                                                    |               |                    |            | 1          | 14           | 22.51                         | 16.56                   | 18.71                    | 34.77                 | -18.21         |
|                                                    |               |                    |            | 8          | 4            | 21.75                         | 15.80                   | 17.95                    | 34.77                 | -18.97         |
|                                                    |               |                    |            | 15         | 0            | 21.74                         | 15.79                   | 17.94                    | 34.77                 | -18.98         |
|                                                    | 23095         | 707.5              | QPSK       | 1          | 0            | 22.55                         | 16.60                   | 18.75                    | 34.77                 | -18.17         |
|                                                    |               |                    |            | 1          | 14           | 22.57                         | 16.62                   | 18.77                    | 34.77                 | -18.15         |
|                                                    |               |                    |            | 8          | 4            | 21.74                         | 15.79                   | 17.94                    | 34.77                 | -18.98         |
|                                                    |               |                    |            | 15         | 0            | 21.57                         | 15.62                   | 17.77                    | 34.77                 | -19.15         |
|                                                    | 23165         | 714.5              | QPSK       | 1          | 0            | 22.83                         | 16.88                   | 19.03                    | 34.77                 | -17.89         |
|                                                    |               |                    |            | 1          | 14           | 22.55                         | 16.60                   | 18.75                    | 34.77                 | -18.17         |
|                                                    |               |                    |            | 8          | 4            | 21.56                         | 15.61                   | 17.76                    | 34.77                 | -19.16         |
|                                                    |               |                    |            | 15         | 0            | 21.65                         | 15.70                   | 17.85                    | 34.77                 | -19.07         |
|                                                    | 23025         | 700.5              | 16QAM      | 1          | 0            | 21.73                         | 15.78                   | 17.93                    | 34.77                 | -18.99         |
|                                                    |               |                    |            | 1          | 14           | 22.29                         | 16.34                   | 18.49                    | 34.77                 | -18.43         |
|                                                    |               |                    |            | 8          | 4            | 20.72                         | 14.77                   | 16.92                    | 34.77                 | -20.00         |
|                                                    |               |                    |            | 15         | 0            | 20.70                         | 14.75                   | 16.90                    | 34.77                 | -20.02         |
|                                                    | 23095         | 707.5              | 16QAM      | 1          | 0            | 22.24                         | 16.29                   | 18.44                    | 34.77                 | -18.48         |
|                                                    |               |                    |            | 1          | 14           | 21.72                         | 15.77                   | 17.92                    | 34.77                 | -19.00         |
|                                                    |               |                    |            | 8          | 4            | 20.52                         | 14.57                   | 16.72                    | 34.77                 | -20.20         |
|                                                    |               |                    |            | 15         | 0            | 20.67                         | 14.72                   | 16.87                    | 34.77                 | -20.05         |
|                                                    | 23165         | 714.5              | 16QAM      | 1          | 0            | 21.62                         | 15.67                   | 17.82                    | 34.77                 | -19.10         |
|                                                    |               |                    |            | 1          | 14           | 21.78                         | 15.83                   | 17.98                    | 34.77                 | -18.94         |
|                                                    |               |                    |            | 8          | 4            | 20.67                         | 14.72                   | 16.87                    | 34.77                 | -20.05         |
|                                                    |               |                    |            | 15         | 0            | 20.74                         | 14.79                   | 16.94                    | 34.77                 | -19.98         |
|                                                    | 23025         | 700.5              | 64QAM      | 1          | 0            | 22.15                         | 16.20                   | 18.35                    | 34.77                 | -18.57         |
|                                                    |               |                    |            | 1          | 14           | 22.18                         | 16.23                   | 18.38                    | 34.77                 | -18.54         |
|                                                    |               |                    |            | 8          | 4            | 20.83                         | 14.88                   | 17.03                    | 34.77                 | -19.89         |
|                                                    |               |                    |            | 15         | 0            | 20.86                         | 14.91                   | 17.06                    | 34.77                 | -19.86         |
|                                                    | 23095         | 707.5              | 64QAM      | 1          | 0            | 21.90                         | 15.95                   | 18.10                    | 34.77                 | -18.82         |
|                                                    |               |                    |            | 1          | 14           | 22.13                         | 16.18                   | 18.33                    | 34.77                 | -18.59         |
|                                                    |               |                    |            | 8          | 4            | 20.69                         | 14.74                   | 16.89                    | 34.77                 | -20.03         |
|                                                    |               |                    |            | 15         | 0            | 20.63                         | 14.68                   | 16.83                    | 34.77                 | -20.09         |
|                                                    | 23165         | 714.5              | 64QAM      | 1          | 0            | 22.15                         | 16.20                   | 18.35                    | 34.77                 | -18.57         |
|                                                    |               |                    |            | 1          | 14           | 22.28                         | 16.33                   | 18.48                    | 34.77                 | -18.44         |
|                                                    |               |                    |            | 8          | 4            | 20.66                         | 14.71                   | 16.86                    | 34.77                 | -20.06         |
|                                                    |               |                    |            | 15         | 0            | 20.72                         | 14.77                   | 16.92                    | 34.77                 | -20.00         |
|                                                    | 23025         | 700.5              | 256QAM     | 1          | 0            | 19.17                         | 13.22                   | 15.37                    | 34.77                 | -21.55         |
|                                                    |               |                    |            | 1          | 14           | 19.22                         | 13.27                   | 15.42                    | 34.77                 | -21.50         |
|                                                    |               |                    |            | 8          | 4            | 18.34                         | 12.39                   | 14.54                    | 34.77                 | -22.38         |
|                                                    |               |                    |            | 15         | 0            | 18.37                         | 12.42                   | 14.57                    | 34.77                 | -22.35         |
|                                                    | 23095         | 707.5              | 256QAM     | 1          | 0            | 19.37                         | 13.42                   | 15.57                    | 34.77                 | -21.35         |
|                                                    |               |                    |            | 1          | 14           | 19.18                         | 13.23                   | 15.38                    | 34.77                 | -21.54         |
|                                                    |               |                    |            | 8          | 4            | 18.23                         | 12.28                   | 14.43                    | 34.77                 | -22.49         |
|                                                    |               |                    |            | 15         | 0            | 18.17                         | 12.22                   | 14.37                    | 34.77                 | -22.55         |
|                                                    | 23165         | 714.5              | 256QAM     | 1          | 0            | 19.27                         | 13.32                   | 15.47                    | 34.77                 | -21.45         |
|                                                    |               |                    |            | 1          | 14           | 19.14                         | 13.19                   | 15.34                    | 34.77                 | -21.58         |
|                                                    |               |                    |            | 8          | 4            | 18.07                         | 12.12                   | 14.27                    | 34.77                 | -22.65         |
|                                                    |               |                    |            | 15         | 0            | 18.30                         | 12.35                   | 14.50                    | 34.77                 | -22.42         |

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| Antenna gain (dBi)                                 |            | -3.8            |            |         |           |                         |                   |                    |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |                 |            |         |           |                         |                   |                    |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                  | 23035      | 701.5           | QPSK       | 1       | 0         | 22.70                   | 16.75             | 18.90              | 34.77           | -18.02      |
|                                                    |            |                 |            | 1       | 24        | 22.63                   | 16.68             | 18.83              | 34.77           | -18.09      |
|                                                    |            |                 |            | 12      | 6         | 21.82                   | 15.87             | 18.02              | 34.77           | -18.90      |
|                                                    |            |                 |            | 25      | 0         | 21.93                   | 15.98             | 18.13              | 34.77           | -18.79      |
|                                                    | 23095      | 707.5           | QPSK       | 1       | 0         | 22.64                   | 16.69             | 18.84              | 34.77           | -18.08      |
|                                                    |            |                 |            | 1       | 24        | 22.70                   | 16.75             | 18.90              | 34.77           | -18.02      |
|                                                    |            |                 |            | 12      | 6         | 21.80                   | 15.85             | 18.00              | 34.77           | -18.92      |
|                                                    |            |                 |            | 25      | 0         | 21.63                   | 15.68             | 17.83              | 34.77           | -19.09      |
|                                                    | 23155      | 713.5           | QPSK       | 1       | 0         | 22.86                   | 16.91             | 19.06              | 34.77           | -17.86      |
|                                                    |            |                 |            | 1       | 24        | 22.51                   | 16.56             | 18.71              | 34.77           | -18.21      |
|                                                    |            |                 |            | 12      | 6         | 21.75                   | 15.80             | 17.95              | 34.77           | -18.97      |
|                                                    |            |                 |            | 25      | 0         | 21.69                   | 15.74             | 17.89              | 34.77           | -19.03      |
|                                                    | 23035      | 701.5           | 16QAM      | 1       | 0         | 21.88                   | 15.93             | 18.08              | 34.77           | -18.84      |
|                                                    |            |                 |            | 1       | 24        | 22.34                   | 16.39             | 18.54              | 34.77           | -18.38      |
|                                                    |            |                 |            | 12      | 6         | 20.91                   | 14.96             | 17.11              | 34.77           | -19.81      |
|                                                    |            |                 |            | 25      | 0         | 20.76                   | 14.81             | 16.96              | 34.77           | -19.96      |
|                                                    | 23095      | 707.5           | 16QAM      | 1       | 0         | 22.25                   | 16.30             | 18.45              | 34.77           | -18.47      |
|                                                    |            |                 |            | 1       | 24        | 21.82                   | 15.87             | 18.02              | 34.77           | -18.90      |
|                                                    |            |                 |            | 12      | 6         | 20.50                   | 14.55             | 16.70              | 34.77           | -20.22      |
|                                                    |            |                 |            | 25      | 0         | 20.81                   | 14.86             | 17.01              | 34.77           | -19.91      |
|                                                    | 23155      | 713.5           | 16QAM      | 1       | 0         | 21.65                   | 15.70             | 17.85              | 34.77           | -19.07      |
|                                                    |            |                 |            | 1       | 24        | 21.96                   | 16.01             | 18.16              | 34.77           | -18.76      |
|                                                    |            |                 |            | 12      | 6         | 20.78                   | 14.83             | 16.98              | 34.77           | -19.94      |
|                                                    |            |                 |            | 25      | 0         | 20.80                   | 14.85             | 17.00              | 34.77           | -19.92      |
|                                                    | 23035      | 701.5           | 64QAM      | 1       | 0         | 22.20                   | 16.25             | 18.40              | 34.77           | -18.52      |
|                                                    |            |                 |            | 1       | 24        | 22.31                   | 16.36             | 18.51              | 34.77           | -18.41      |
|                                                    |            |                 |            | 12      | 6         | 20.96                   | 15.01             | 17.16              | 34.77           | -19.76      |
|                                                    |            |                 |            | 25      | 0         | 20.88                   | 14.93             | 17.08              | 34.77           | -19.84      |
|                                                    | 23095      | 707.5           | 64QAM      | 1       | 0         | 21.94                   | 15.99             | 18.14              | 34.77           | -18.78      |
|                                                    |            |                 |            | 1       | 24        | 22.25                   | 16.30             | 18.45              | 34.77           | -18.47      |
|                                                    |            |                 |            | 12      | 6         | 20.78                   | 14.83             | 16.98              | 34.77           | -19.94      |
|                                                    |            |                 |            | 25      | 0         | 20.77                   | 14.82             | 16.97              | 34.77           | -19.95      |
|                                                    | 23155      | 713.5           | 64QAM      | 1       | 0         | 22.24                   | 16.29             | 18.44              | 34.77           | -18.48      |
|                                                    |            |                 |            | 1       | 24        | 22.30                   | 16.35             | 18.50              | 34.77           | -18.42      |
|                                                    |            |                 |            | 12      | 6         | 20.74                   | 14.79             | 16.94              | 34.77           | -19.98      |
|                                                    |            |                 |            | 25      | 0         | 20.83                   | 14.88             | 17.03              | 34.77           | -19.89      |
|                                                    | 23035      | 701.5           | 256QAM     | 1       | 0         | 19.32                   | 13.37             | 15.52              | 34.77           | -21.40      |
|                                                    |            |                 |            | 1       | 24        | 19.32                   | 13.37             | 15.52              | 34.77           | -21.40      |
|                                                    |            |                 |            | 12      | 6         | 18.39                   | 12.44             | 14.59              | 34.77           | -22.33      |
|                                                    |            |                 |            | 25      | 0         | 18.38                   | 12.43             | 14.58              | 34.77           | -22.34      |
|                                                    | 23095      | 707.5           | 256QAM     | 1       | 0         | 19.42                   | 13.47             | 15.62              | 34.77           | -21.30      |
|                                                    |            |                 |            | 1       | 24        | 19.35                   | 13.40             | 15.55              | 34.77           | -21.37      |
|                                                    |            |                 |            | 12      | 6         | 18.33                   | 12.38             | 14.53              | 34.77           | -22.39      |
|                                                    |            |                 |            | 25      | 0         | 18.24                   | 12.29             | 14.44              | 34.77           | -22.48      |
|                                                    | 23155      | 713.5           | 256QAM     | 1       | 0         | 19.45                   | 13.50             | 15.65              | 34.77           | -21.27      |
|                                                    |            |                 |            | 1       | 24        | 19.27                   | 13.32             | 15.47              | 34.77           | -21.45      |
|                                                    |            |                 |            | 12      | 6         | 18.15                   | 12.20             | 14.35              | 34.77           | -22.57      |
|                                                    |            |                 |            | 25      | 0         | 18.37                   | 12.42             | 14.57              | 34.77           | -22.35      |

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| Antenna gain (dBi)                                 |            | -3.8            |            |         |           |                         |                   |                    |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |                 |            |         |           |                         |                   |                    |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                 | 23060      | 704             | QPSK       | 1       | 0         | 22.82                   | 16.87             | 19.02              | 34.77           | -17.90      |
|                                                    |            |                 |            | 1       | 49        | 22.72                   | 16.77             | 18.92              | 34.77           | -18.00      |
|                                                    |            |                 |            | 25      | 12        | 21.88                   | 15.93             | 18.08              | 34.77           | -18.84      |
|                                                    |            |                 |            | 50      | 0         | 21.97                   | 16.02             | 18.17              | 34.77           | -18.75      |
|                                                    | 23095      | 707.5           | QPSK       | 1       | 0         | 22.79                   | 16.84             | 18.99              | 34.77           | -17.93      |
|                                                    |            |                 |            | 1       | 49        | 22.78                   | 16.83             | 18.98              | 34.77           | -17.94      |
|                                                    |            |                 |            | 25      | 12        | 21.85                   | 15.90             | 18.05              | 34.77           | -18.87      |
|                                                    |            |                 |            | 50      | 0         | 21.80                   | 15.85             | 18.00              | 34.77           | -18.92      |
|                                                    | 23130      | 711             | QPSK       | 1       | 0         | 22.92                   | 16.97             | 19.12              | 34.77           | -17.80      |
|                                                    |            |                 |            | 1       | 49        | 22.67                   | 16.72             | 18.87              | 34.77           | -18.05      |
|                                                    |            |                 |            | 25      | 12        | 21.77                   | 15.82             | 17.97              | 34.77           | -18.95      |
|                                                    |            |                 |            | 50      | 0         | 21.81                   | 15.86             | 18.01              | 34.77           | -18.91      |
|                                                    | 23060      | 704             | 16QAM      | 1       | 0         | 22.01                   | 16.06             | 18.21              | 34.77           | -18.71      |
|                                                    |            |                 |            | 1       | 49        | 22.45                   | 16.50             | 18.65              | 34.77           | -18.27      |
|                                                    |            |                 |            | 25      | 12        | 20.94                   | 14.99             | 17.14              | 34.77           | -19.78      |
|                                                    |            |                 |            | 50      | 0         | 20.93                   | 14.98             | 17.13              | 34.77           | -19.79      |
|                                                    | 23095      | 707.5           | 16QAM      | 1       | 0         | 22.34                   | 16.39             | 18.54              | 34.77           | -18.38      |
|                                                    |            |                 |            | 1       | 49        | 22.00                   | 16.05             | 18.20              | 34.77           | -18.72      |
|                                                    |            |                 |            | 25      | 12        | 20.69                   | 14.74             | 16.89              | 34.77           | -20.03      |
|                                                    |            |                 |            | 50      | 0         | 20.89                   | 14.94             | 17.09              | 34.77           | -19.83      |
|                                                    | 23130      | 711             | 16QAM      | 1       | 0         | 21.81                   | 15.86             | 18.01              | 34.77           | -18.91      |
|                                                    |            |                 |            | 1       | 49        | 22.14                   | 16.19             | 18.34              | 34.77           | -18.58      |
|                                                    |            |                 |            | 25      | 12        | 20.80                   | 14.85             | 17.00              | 34.77           | -19.92      |
|                                                    |            |                 |            | 50      | 0         | 20.85                   | 14.90             | 17.05              | 34.77           | -19.87      |
|                                                    | 23060      | 704             | 64QAM      | 1       | 0         | 22.24                   | 16.29             | 18.44              | 34.77           | -18.48      |
|                                                    |            |                 |            | 1       | 49        | 22.34                   | 16.39             | 18.54              | 34.77           | -18.38      |
|                                                    |            |                 |            | 25      | 12        | 20.97                   | 15.02             | 17.17              | 34.77           | -19.75      |
|                                                    |            |                 |            | 50      | 0         | 21.01                   | 15.06             | 17.21              | 34.77           | -19.71      |
|                                                    | 23095      | 707.5           | 64QAM      | 1       | 0         | 22.00                   | 16.05             | 18.20              | 34.77           | -18.72      |
|                                                    |            |                 |            | 1       | 49        | 22.26                   | 16.31             | 18.46              | 34.77           | -18.46      |
|                                                    |            |                 |            | 25      | 12        | 20.90                   | 14.95             | 17.10              | 34.77           | -19.82      |
|                                                    |            |                 |            | 50      | 0         | 20.91                   | 14.96             | 17.11              | 34.77           | -19.81      |
|                                                    | 23130      | 711             | 64QAM      | 1       | 0         | 22.31                   | 16.36             | 18.51              | 34.77           | -18.41      |
|                                                    |            |                 |            | 1       | 49        | 22.38                   | 16.43             | 18.58              | 34.77           | -18.34      |
|                                                    |            |                 |            | 25      | 12        | 20.85                   | 14.90             | 17.05              | 34.77           | -19.87      |
|                                                    |            |                 |            | 50      | 0         | 20.87                   | 14.92             | 17.07              | 34.77           | -19.85      |
|                                                    | 23060      | 704             | 256QAM     | 1       | 0         | 19.37                   | 13.42             | 15.57              | 34.77           | -21.35      |
|                                                    |            |                 |            | 1       | 49        | 19.36                   | 13.41             | 15.56              | 34.77           | -21.36      |
|                                                    |            |                 |            | 25      | 12        | 18.50                   | 12.55             | 14.70              | 34.77           | -22.22      |
|                                                    |            |                 |            | 50      | 0         | 18.44                   | 12.49             | 14.64              | 34.77           | -22.28      |
|                                                    | 23095      | 707.5           | 256QAM     | 1       | 0         | 19.44                   | 13.49             | 15.64              | 34.77           | -21.28      |
|                                                    |            |                 |            | 1       | 49        | 19.39                   | 13.44             | 15.59              | 34.77           | -21.33      |
|                                                    |            |                 |            | 25      | 12        | 18.33                   | 12.38             | 14.53              | 34.77           | -22.39      |
|                                                    |            |                 |            | 50      | 0         | 18.37                   | 12.42             | 14.57              | 34.77           | -22.35      |
|                                                    | 23130      | 711             | 256QAM     | 1       | 0         | 19.46                   | 13.51             | 15.66              | 34.77           | -21.26      |
|                                                    |            |                 |            | 1       | 49        | 19.41                   | 13.46             | 15.61              | 34.77           | -21.31      |
|                                                    |            |                 |            | 25      | 12        | 18.32                   | 12.37             | 14.52              | 34.77           | -22.40      |
|                                                    |            |                 |            | 50      | 0         | 18.38                   | 12.43             | 14.58              | 34.77           | -22.34      |

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| Antenna gain (dBi)                                 |               | -1.6               |            |            |              |                               |                         |                          |                       |                |
|----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|-----------------------|----------------|
| LTE Band 13_Uplink frequency band : 777 to 787 MHz |               |                    |            |            |              |                               |                         |                          |                       |                |
| BW<br>(MHz)                                        | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | ERP<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | ERP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 5                                                  | 23205         | 779.5              | QPSK       | 1          | 0            | 22.98                         | 19.23                   | 21.38                    | 34.77                 | -15.54         |
|                                                    |               |                    |            | 1          | 24           | 22.77                         | 19.02                   | 21.17                    | 34.77                 | -15.75         |
|                                                    |               |                    |            | 12         | 6            | 22.35                         | 18.60                   | 20.75                    | 34.77                 | -16.17         |
|                                                    |               |                    |            | 25         | 0            | 22.32                         | 18.57                   | 20.72                    | 34.77                 | -16.20         |
|                                                    | 23230         | 782                | QPSK       | 1          | 0            | 22.98                         | 19.23                   | 21.38                    | 34.77                 | -15.54         |
|                                                    |               |                    |            | 1          | 24           | 22.82                         | 19.07                   | 21.22                    | 34.77                 | -15.70         |
|                                                    |               |                    |            | 12         | 6            | 22.32                         | 18.57                   | 20.72                    | 34.77                 | -16.20         |
|                                                    |               |                    |            | 25         | 0            | 22.49                         | 18.74                   | 20.89                    | 34.77                 | -16.03         |
|                                                    | 23255         | 784.5              | QPSK       | 1          | 0            | 23.26                         | 19.51                   | 21.66                    | 34.77                 | -15.26         |
|                                                    |               |                    |            | 1          | 24           | 23.07                         | 19.32                   | 21.47                    | 34.77                 | -15.45         |
|                                                    |               |                    |            | 12         | 6            | 22.31                         | 18.56                   | 20.71                    | 34.77                 | -16.21         |
|                                                    |               |                    |            | 25         | 0            | 22.42                         | 18.67                   | 20.82                    | 34.77                 | -16.10         |
|                                                    | 23205         | 779.5              | 16QAM      | 1          | 0            | 22.33                         | 18.58                   | 20.73                    | 34.77                 | -16.19         |
|                                                    |               |                    |            | 1          | 24           | 22.34                         | 18.59                   | 20.74                    | 34.77                 | -16.18         |
|                                                    |               |                    |            | 12         | 6            | 21.39                         | 17.64                   | 19.79                    | 34.77                 | -17.13         |
|                                                    |               |                    |            | 25         | 0            | 21.37                         | 17.62                   | 19.77                    | 34.77                 | -17.15         |
|                                                    | 23230         | 782                | 16QAM      | 1          | 0            | 22.36                         | 18.61                   | 20.76                    | 34.77                 | -16.16         |
|                                                    |               |                    |            | 1          | 24           | 22.40                         | 18.65                   | 20.80                    | 34.77                 | -16.12         |
|                                                    |               |                    |            | 12         | 6            | 21.44                         | 17.69                   | 19.84                    | 34.77                 | -17.08         |
|                                                    |               |                    |            | 25         | 0            | 21.33                         | 17.58                   | 19.73                    | 34.77                 | -17.19         |
|                                                    | 23255         | 784.5              | 16QAM      | 1          | 0            | 22.44                         | 18.69                   | 20.84                    | 34.77                 | -16.08         |
|                                                    |               |                    |            | 1          | 24           | 22.44                         | 18.69                   | 20.84                    | 34.77                 | -16.08         |
|                                                    |               |                    |            | 12         | 6            | 21.36                         | 17.61                   | 19.76                    | 34.77                 | -17.16         |
|                                                    |               |                    |            | 25         | 0            | 21.49                         | 17.74                   | 19.89                    | 34.77                 | -17.03         |
|                                                    | 23205         | 779.5              | 64QAM      | 1          | 0            | 22.22                         | 18.47                   | 20.62                    | 34.77                 | -16.30         |
|                                                    |               |                    |            | 1          | 24           | 22.35                         | 18.60                   | 20.75                    | 34.77                 | -16.17         |
|                                                    |               |                    |            | 12         | 6            | 21.35                         | 17.60                   | 19.75                    | 34.77                 | -17.17         |
|                                                    |               |                    |            | 25         | 0            | 21.37                         | 17.62                   | 19.77                    | 34.77                 | -17.15         |
|                                                    | 23230         | 782                | 64QAM      | 1          | 0            | 22.32                         | 18.57                   | 20.72                    | 34.77                 | -16.20         |
|                                                    |               |                    |            | 1          | 24           | 22.33                         | 18.58                   | 20.73                    | 34.77                 | -16.19         |
|                                                    |               |                    |            | 12         | 6            | 21.36                         | 17.61                   | 19.76                    | 34.77                 | -17.16         |
|                                                    |               |                    |            | 25         | 0            | 21.48                         | 17.73                   | 19.88                    | 34.77                 | -17.04         |
|                                                    | 23255         | 784.5              | 64QAM      | 1          | 0            | 22.41                         | 18.66                   | 20.81                    | 34.77                 | -16.11         |
|                                                    |               |                    |            | 1          | 24           | 22.39                         | 18.64                   | 20.79                    | 34.77                 | -16.13         |
|                                                    |               |                    |            | 12         | 6            | 21.35                         | 17.60                   | 19.75                    | 34.77                 | -17.17         |
|                                                    |               |                    |            | 25         | 0            | 21.32                         | 17.57                   | 19.72                    | 34.77                 | -17.20         |
|                                                    | 23205         | 779.5              | 256QAM     | 1          | 0            | 19.50                         | 15.75                   | 17.90                    | 34.77                 | -19.02         |
|                                                    |               |                    |            | 1          | 24           | 19.33                         | 15.58                   | 17.73                    | 34.77                 | -19.19         |
|                                                    |               |                    |            | 12         | 6            | 18.46                         | 14.71                   | 16.86                    | 34.77                 | -20.06         |
|                                                    |               |                    |            | 25         | 0            | 18.46                         | 14.71                   | 16.86                    | 34.77                 | -20.06         |
|                                                    | 23230         | 782                | 256QAM     | 1          | 0            | 19.47                         | 15.72                   | 17.87                    | 34.77                 | -19.05         |
|                                                    |               |                    |            | 1          | 24           | 19.34                         | 15.59                   | 17.74                    | 34.77                 | -19.18         |
|                                                    |               |                    |            | 12         | 6            | 18.40                         | 14.65                   | 16.80                    | 34.77                 | -20.12         |
|                                                    |               |                    |            | 25         | 0            | 18.34                         | 14.59                   | 16.74                    | 34.77                 | -20.18         |
|                                                    | 23255         | 784.5              | 256QAM     | 1          | 0            | 19.39                         | 15.64                   | 17.79                    | 34.77                 | -19.13         |
|                                                    |               |                    |            | 1          | 24           | 19.46                         | 15.71                   | 17.86                    | 34.77                 | -19.06         |
|                                                    |               |                    |            | 12         | 6            | 18.35                         | 14.60                   | 16.75                    | 34.77                 | -20.17         |
|                                                    |               |                    |            | 25         | 0            | 18.33                         | 14.58                   | 16.73                    | 34.77                 | -20.19         |

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| Antenna gain (dBi)                                 | -1.6       |                 |            |         |           |                         |                   |                    |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 13_Uplink frequency band : 777 to 787 MHz |            |                 |            |         |           |                         |                   |                    |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                 | 23230      | 782             | QPSK       | 1       | 0         | 23.10                   | 19.35             | 21.50              | 34.77           | -15.42      |
|                                                    |            |                 |            | 1       | 49        | 23.40                   | 19.65             | 21.80              | 34.77           | -15.12      |
|                                                    |            |                 |            | 25      | 12        | 22.27                   | 18.52             | 20.67              | 34.77           | -16.25      |
|                                                    |            |                 |            | 50      | 0         | 22.16                   | 18.41             | 20.56              | 34.77           | -16.36      |
|                                                    | 23230      | 782             | 16QAM      | 1       | 0         | 22.54                   | 18.79             | 20.94              | 34.77           | -15.98      |
|                                                    |            |                 |            | 1       | 49        | 22.45                   | 18.70             | 20.85              | 34.77           | -16.07      |
|                                                    |            |                 |            | 25      | 12        | 21.20                   | 17.45             | 19.60              | 34.77           | -17.32      |
|                                                    |            |                 |            | 50      | 0         | 21.24                   | 17.49             | 19.64              | 34.77           | -17.28      |
|                                                    | 23230      | 782             | 64QAM      | 1       | 0         | 22.49                   | 18.74             | 20.89              | 34.77           | -16.03      |
|                                                    |            |                 |            | 1       | 49        | 22.29                   | 18.54             | 20.69              | 34.77           | -16.23      |
|                                                    |            |                 |            | 25      | 12        | 21.27                   | 17.52             | 19.67              | 34.77           | -17.25      |
|                                                    |            |                 |            | 50      | 0         | 21.06                   | 17.31             | 19.46              | 34.77           | -17.46      |
|                                                    | 23230      | 782             | 256QAM     | 1       | 0         | 19.36                   | 15.61             | 17.76              | 34.77           | -19.16      |
|                                                    |            |                 |            | 1       | 49        | 19.35                   | 15.60             | 17.75              | 34.77           | -19.17      |
|                                                    |            |                 |            | 25      | 12        | 18.94                   | 15.19             | 17.34              | 34.77           | -19.58      |
|                                                    |            |                 |            | 50      | 0         | 18.98                   | 15.23             | 17.38              | 34.77           | -19.54      |

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| Antenna gain (dBi)                                 |               | -3.9               |            |            |              |                               |                         |                          |                       |                |
|----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|-----------------------|----------------|
| LTE Band 17_Uplink frequency band : 704 to 716 MHz |               |                    |            |            |              |                               |                         |                          |                       |                |
| BW<br>(MHz)                                        | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | ERP<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | ERP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 5                                                  | 23755         | 706.5              | QPSK       | 1          | 0            | 22.63                         | 16.58                   | 18.73                    | 34.77                 | -18.19         |
|                                                    |               |                    |            | 1          | 24           | 22.84                         | 16.79                   | 18.94                    | 34.77                 | -17.98         |
|                                                    |               |                    |            | 12         | 6            | 21.82                         | 15.77                   | 17.92                    | 34.77                 | -19.00         |
|                                                    |               |                    |            | 25         | 0            | 21.84                         | 15.79                   | 17.94                    | 34.77                 | -18.98         |
|                                                    | 23790         | 710                | QPSK       | 1          | 0            | 22.69                         | 16.64                   | 18.79                    | 34.77                 | -18.13         |
|                                                    |               |                    |            | 1          | 24           | 22.81                         | 16.76                   | 18.91                    | 34.77                 | -18.01         |
|                                                    |               |                    |            | 12         | 6            | 21.71                         | 15.66                   | 17.81                    | 34.77                 | -19.11         |
|                                                    |               |                    |            | 25         | 0            | 21.83                         | 15.78                   | 17.93                    | 34.77                 | -18.99         |
|                                                    | 23825         | 713.5              | QPSK       | 1          | 0            | 22.63                         | 16.58                   | 18.73                    | 34.77                 | -18.19         |
|                                                    |               |                    |            | 1          | 24           | 22.76                         | 16.71                   | 18.86                    | 34.77                 | -18.06         |
|                                                    |               |                    |            | 12         | 6            | 21.79                         | 15.74                   | 17.89                    | 34.77                 | -19.03         |
|                                                    |               |                    |            | 25         | 0            | 21.72                         | 15.67                   | 17.82                    | 34.77                 | -19.10         |
|                                                    | 23755         | 706.5              | 16QAM      | 1          | 0            | 22.25                         | 16.20                   | 18.35                    | 34.77                 | -18.57         |
|                                                    |               |                    |            | 1          | 24           | 22.22                         | 16.17                   | 18.32                    | 34.77                 | -18.60         |
|                                                    |               |                    |            | 12         | 6            | 20.89                         | 14.84                   | 16.99                    | 34.77                 | -19.93         |
|                                                    |               |                    |            | 25         | 0            | 20.86                         | 14.81                   | 16.96                    | 34.77                 | -19.96         |
|                                                    | 23790         | 710                | 16QAM      | 1          | 0            | 22.13                         | 16.08                   | 18.23                    | 34.77                 | -18.69         |
|                                                    |               |                    |            | 1          | 24           | 21.82                         | 15.77                   | 17.92                    | 34.77                 | -19.00         |
|                                                    |               |                    |            | 12         | 6            | 20.81                         | 14.76                   | 16.91                    | 34.77                 | -20.01         |
|                                                    |               |                    |            | 25         | 0            | 20.77                         | 14.72                   | 16.87                    | 34.77                 | -20.05         |
|                                                    | 23825         | 713.5              | 16QAM      | 1          | 0            | 22.20                         | 16.15                   | 18.30                    | 34.77                 | -18.62         |
|                                                    |               |                    |            | 1          | 24           | 21.87                         | 15.82                   | 17.97                    | 34.77                 | -18.95         |
|                                                    |               |                    |            | 12         | 6            | 20.88                         | 14.83                   | 16.98                    | 34.77                 | -19.94         |
|                                                    |               |                    |            | 25         | 0            | 20.78                         | 14.73                   | 16.88                    | 34.77                 | -20.04         |
|                                                    | 23755         | 706.5              | 64QAM      | 1          | 0            | 21.81                         | 15.76                   | 17.91                    | 34.77                 | -19.01         |
|                                                    |               |                    |            | 1          | 24           | 21.93                         | 15.88                   | 18.03                    | 34.77                 | -18.89         |
|                                                    |               |                    |            | 12         | 6            | 20.88                         | 14.83                   | 16.98                    | 34.77                 | -19.94         |
|                                                    |               |                    |            | 25         | 0            | 20.83                         | 14.78                   | 16.93                    | 34.77                 | -19.99         |
|                                                    | 23790         | 710                | 64QAM      | 1          | 0            | 21.84                         | 15.79                   | 17.94                    | 34.77                 | -18.98         |
|                                                    |               |                    |            | 1          | 24           | 21.76                         | 15.71                   | 17.86                    | 34.77                 | -19.06         |
|                                                    |               |                    |            | 12         | 6            | 20.88                         | 14.83                   | 16.98                    | 34.77                 | -19.94         |
|                                                    |               |                    |            | 25         | 0            | 20.83                         | 14.78                   | 16.93                    | 34.77                 | -19.99         |
|                                                    | 23825         | 713.5              | 64QAM      | 1          | 0            | 21.97                         | 15.92                   | 18.07                    | 34.77                 | -18.85         |
|                                                    |               |                    |            | 1          | 24           | 22.01                         | 15.96                   | 18.11                    | 34.77                 | -18.81         |
|                                                    |               |                    |            | 12         | 6            | 20.75                         | 14.70                   | 16.85                    | 34.77                 | -20.07         |
|                                                    |               |                    |            | 25         | 0            | 20.70                         | 14.65                   | 16.80                    | 34.77                 | -20.12         |
|                                                    | 23755         | 706.5              | 256QAM     | 1          | 0            | 19.24                         | 13.19                   | 15.34                    | 34.77                 | -21.58         |
|                                                    |               |                    |            | 1          | 24           | 19.29                         | 13.24                   | 15.39                    | 34.77                 | -21.53         |
|                                                    |               |                    |            | 12         | 6            | 18.95                         | 12.90                   | 15.05                    | 34.77                 | -21.87         |
|                                                    |               |                    |            | 25         | 0            | 18.69                         | 12.64                   | 14.79                    | 34.77                 | -22.13         |
|                                                    | 23790         | 710                | 256QAM     | 1          | 0            | 19.32                         | 13.27                   | 15.42                    | 34.77                 | -21.50         |
|                                                    |               |                    |            | 1          | 24           | 19.28                         | 13.23                   | 15.38                    | 34.77                 | -21.54         |
|                                                    |               |                    |            | 12         | 6            | 18.79                         | 12.74                   | 14.89                    | 34.77                 | -22.03         |
|                                                    |               |                    |            | 25         | 0            | 18.67                         | 12.62                   | 14.77                    | 34.77                 | -22.15         |
|                                                    | 23825         | 713.5              | 256QAM     | 1          | 0            | 19.45                         | 13.40                   | 15.55                    | 34.77                 | -21.37         |
|                                                    |               |                    |            | 1          | 24           | 19.26                         | 13.21                   | 15.36                    | 34.77                 | -21.56         |
|                                                    |               |                    |            | 12         | 6            | 18.78                         | 12.73                   | 14.88                    | 34.77                 | -22.04         |
|                                                    |               |                    |            | 25         | 0            | 18.75                         | 12.70                   | 14.85                    | 34.77                 | -22.07         |

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| Antenna gain (dBi)                                 |               | -3.9               |            |            |              |                               |                         |                          |                       |                |
|----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|-----------------------|----------------|
| LTE Band 17_Uplink frequency band : 704 to 716 MHz |               |                    |            |            |              |                               |                         |                          |                       |                |
| BW<br>(MHz)                                        | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | ERP<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | ERP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 10                                                 | 23780         | 709                | QPSK       | 1          | 0            | 22.90                         | 16.85                   | 19.00                    | 34.77                 | -17.92         |
|                                                    |               |                    |            | 1          | 49           | 23.02                         | 16.97                   | 19.12                    | 34.77                 | -17.80         |
|                                                    |               |                    |            | 25         | 12           | 22.17                         | 16.12                   | 18.27                    | 34.77                 | -18.65         |
|                                                    |               |                    |            | 50         | 0            | 22.15                         | 16.10                   | 18.25                    | 34.77                 | -18.67         |
|                                                    | 23790         | 710                | QPSK       | 1          | 0            | 22.95                         | 16.90                   | 19.05                    | 34.77                 | -17.87         |
|                                                    |               |                    |            | 1          | 49           | 23.01                         | 16.96                   | 19.11                    | 34.77                 | -17.81         |
|                                                    |               |                    |            | 25         | 12           | 22.09                         | 16.04                   | 18.19                    | 34.77                 | -18.73         |
|                                                    |               |                    |            | 50         | 0            | 22.05                         | 16.00                   | 18.15                    | 34.77                 | -18.77         |
|                                                    | 23800         | 711                | QPSK       | 1          | 0            | 23.03                         | 16.98                   | 19.13                    | 34.77                 | -17.79         |
|                                                    |               |                    |            | 1          | 49           | 23.04                         | 16.99                   | 19.14                    | 34.77                 | -17.78         |
|                                                    |               |                    |            | 25         | 12           | 22.03                         | 15.98                   | 18.13                    | 34.77                 | -18.79         |
|                                                    |               |                    |            | 50         | 0            | 22.04                         | 15.99                   | 18.14                    | 34.77                 | -18.78         |
|                                                    | 23780         | 709                | 16QAM      | 1          | 0            | 22.52                         | 16.47                   | 18.62                    | 34.77                 | -18.30         |
|                                                    |               |                    |            | 1          | 49           | 22.59                         | 16.54                   | 18.69                    | 34.77                 | -18.23         |
|                                                    |               |                    |            | 25         | 12           | 21.08                         | 15.03                   | 17.18                    | 34.77                 | -19.74         |
|                                                    |               |                    |            | 50         | 0            | 21.11                         | 15.06                   | 17.21                    | 34.77                 | -19.71         |
|                                                    | 23790         | 710                | 16QAM      | 1          | 0            | 22.52                         | 16.47                   | 18.62                    | 34.77                 | -18.30         |
|                                                    |               |                    |            | 1          | 49           | 22.59                         | 16.54                   | 18.69                    | 34.77                 | -18.23         |
|                                                    |               |                    |            | 25         | 12           | 20.94                         | 14.89                   | 17.04                    | 34.77                 | -19.88         |
|                                                    |               |                    |            | 50         | 0            | 21.02                         | 14.97                   | 17.12                    | 34.77                 | -19.80         |
|                                                    | 23800         | 711                | 16QAM      | 1          | 0            | 22.30                         | 16.25                   | 18.40                    | 34.77                 | -18.52         |
|                                                    |               |                    |            | 1          | 49           | 22.36                         | 16.31                   | 18.46                    | 34.77                 | -18.46         |
|                                                    |               |                    |            | 25         | 12           | 21.06                         | 15.01                   | 17.16                    | 34.77                 | -19.76         |
|                                                    |               |                    |            | 50         | 0            | 21.06                         | 15.01                   | 17.16                    | 34.77                 | -19.76         |
|                                                    | 23780         | 709                | 64QAM      | 1          | 0            | 22.49                         | 16.44                   | 18.59                    | 34.77                 | -18.33         |
|                                                    |               |                    |            | 1          | 49           | 22.32                         | 16.27                   | 18.42                    | 34.77                 | -18.50         |
|                                                    |               |                    |            | 25         | 12           | 21.10                         | 15.05                   | 17.20                    | 34.77                 | -19.72         |
|                                                    |               |                    |            | 50         | 0            | 21.07                         | 15.02                   | 17.17                    | 34.77                 | -19.75         |
|                                                    | 23790         | 710                | 64QAM      | 1          | 0            | 22.27                         | 16.22                   | 18.37                    | 34.77                 | -18.55         |
|                                                    |               |                    |            | 1          | 49           | 22.15                         | 16.10                   | 18.25                    | 34.77                 | -18.67         |
|                                                    |               |                    |            | 25         | 12           | 21.16                         | 15.11                   | 17.26                    | 34.77                 | -19.66         |
|                                                    |               |                    |            | 50         | 0            | 21.11                         | 15.06                   | 17.21                    | 34.77                 | -19.71         |
|                                                    | 23800         | 711                | 64QAM      | 1          | 0            | 22.50                         | 16.45                   | 18.60                    | 34.77                 | -18.32         |
|                                                    |               |                    |            | 1          | 49           | 22.48                         | 16.43                   | 18.58                    | 34.77                 | -18.34         |
|                                                    |               |                    |            | 25         | 12           | 21.07                         | 15.02                   | 17.17                    | 34.77                 | -19.75         |
|                                                    |               |                    |            | 50         | 0            | 21.12                         | 15.07                   | 17.22                    | 34.77                 | -19.70         |
|                                                    | 23780         | 709                | 256QAM     | 1          | 0            | 19.38                         | 13.33                   | 15.48                    | 34.77                 | -21.44         |
|                                                    |               |                    |            | 1          | 49           | 19.37                         | 13.32                   | 15.47                    | 34.77                 | -21.45         |
|                                                    |               |                    |            | 25         | 12           | 18.98                         | 12.93                   | 15.08                    | 34.77                 | -21.84         |
|                                                    |               |                    |            | 50         | 0            | 18.82                         | 12.77                   | 14.92                    | 34.77                 | -22.00         |
|                                                    | 23790         | 710                | 256QAM     | 1          | 0            | 19.39                         | 13.34                   | 15.49                    | 34.77                 | -21.43         |
|                                                    |               |                    |            | 1          | 49           | 19.39                         | 13.34                   | 15.49                    | 34.77                 | -21.43         |
|                                                    |               |                    |            | 25         | 12           | 18.83                         | 12.78                   | 14.93                    | 34.77                 | -21.99         |
|                                                    |               |                    |            | 50         | 0            | 18.85                         | 12.80                   | 14.95                    | 34.77                 | -21.97         |
|                                                    | 23800         | 711                | 256QAM     | 1          | 0            | 19.47                         | 13.42                   | 15.57                    | 34.77                 | -21.35         |
|                                                    |               |                    |            | 1          | 49           | 19.33                         | 13.28                   | 15.43                    | 34.77                 | -21.49         |
|                                                    |               |                    |            | 25         | 12           | 18.86                         | 12.81                   | 14.96                    | 34.77                 | -21.96         |
|                                                    |               |                    |            | 50         | 0            | 18.81                         | 12.76                   | 14.91                    | 34.77                 | -22.01         |

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| Antenna gain (dBi)                                   |            | -0.7            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 25 Uplink frequency band : 1850 to 1915 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3                                                    | 26055      | 1851.5          | QPSK       | 1       | 0         | 23.19                   | 22.49              | 33               | -10.51      |
|                                                      |            |                 |            | 1       | 14        | 23.05                   | 22.35              | 33               | -10.65      |
|                                                      |            |                 |            | 8       | 4         | 22.42                   | 21.72              | 33               | -11.28      |
|                                                      |            |                 |            | 15      | 0         | 22.29                   | 21.59              | 33               | -11.41      |
|                                                      | 26365      | 1882.5          | QPSK       | 1       | 0         | 23.02                   | 22.32              | 33               | -10.68      |
|                                                      |            |                 |            | 1       | 14        | 23.09                   | 22.39              | 33               | -10.61      |
|                                                      |            |                 |            | 8       | 4         | 22.21                   | 21.51              | 33               | -11.49      |
|                                                      |            |                 |            | 15      | 0         | 22.17                   | 21.47              | 33               | -11.53      |
|                                                      | 26675      | 1913.5          | QPSK       | 1       | 0         | 22.98                   | 22.28              | 33               | -10.72      |
|                                                      |            |                 |            | 1       | 14        | 22.99                   | 22.29              | 33               | -10.71      |
|                                                      |            |                 |            | 8       | 4         | 22.25                   | 21.55              | 33               | -11.45      |
|                                                      |            |                 |            | 15      | 0         | 22.09                   | 21.39              | 33               | -11.61      |
|                                                      | 26055      | 1851.5          | 16QAM      | 1       | 0         | 22.96                   | 22.26              | 33               | -10.74      |
|                                                      |            |                 |            | 1       | 14        | 22.20                   | 21.50              | 33               | -11.5       |
|                                                      |            |                 |            | 8       | 4         | 21.24                   | 20.54              | 33               | -12.46      |
|                                                      |            |                 |            | 15      | 0         | 21.22                   | 20.52              | 33               | -12.48      |
|                                                      | 26365      | 1882.5          | 16QAM      | 1       | 0         | 22.26                   | 21.56              | 33               | -11.44      |
|                                                      |            |                 |            | 1       | 14        | 22.53                   | 21.83              | 33               | -11.17      |
|                                                      |            |                 |            | 8       | 4         | 20.99                   | 20.29              | 33               | -12.71      |
|                                                      |            |                 |            | 15      | 0         | 21.26                   | 20.56              | 33               | -12.44      |
|                                                      | 26675      | 1913.5          | 16QAM      | 1       | 0         | 22.25                   | 21.55              | 33               | -11.45      |
|                                                      |            |                 |            | 1       | 14        | 22.08                   | 21.38              | 33               | -11.62      |
|                                                      |            |                 |            | 8       | 4         | 21.28                   | 20.58              | 33               | -12.42      |
|                                                      |            |                 |            | 15      | 0         | 21.28                   | 20.58              | 33               | -12.42      |
|                                                      | 26055      | 1851.5          | 64QAM      | 1       | 0         | 21.89                   | 21.19              | 33               | -11.81      |
|                                                      |            |                 |            | 1       | 14        | 22.35                   | 21.65              | 33               | -11.35      |
|                                                      |            |                 |            | 8       | 4         | 21.12                   | 20.42              | 33               | -12.58      |
|                                                      |            |                 |            | 15      | 0         | 21.19                   | 20.49              | 33               | -12.51      |
|                                                      | 26365      | 1882.5          | 64QAM      | 1       | 0         | 22.17                   | 21.47              | 33               | -11.53      |
|                                                      |            |                 |            | 1       | 14        | 22.04                   | 21.34              | 33               | -11.66      |
|                                                      |            |                 |            | 8       | 4         | 21.00                   | 20.30              | 33               | -12.7       |
|                                                      |            |                 |            | 15      | 0         | 21.02                   | 20.32              | 33               | -12.68      |
|                                                      | 26675      | 1913.5          | 64QAM      | 1       | 0         | 22.06                   | 21.36              | 33               | -11.64      |
|                                                      |            |                 |            | 1       | 14        | 21.93                   | 21.23              | 33               | -11.77      |
|                                                      |            |                 |            | 8       | 4         | 21.16                   | 20.46              | 33               | -12.54      |
|                                                      |            |                 |            | 15      | 0         | 20.95                   | 20.25              | 33               | -12.75      |
|                                                      | 26055      | 1851.5          | 256QAM     | 1       | 0         | 19.20                   | 18.50              | 33               | -14.5       |
|                                                      |            |                 |            | 1       | 14        | 19.03                   | 18.33              | 33               | -14.67      |
|                                                      |            |                 |            | 8       | 4         | 18.16                   | 17.46              | 33               | -15.54      |
|                                                      |            |                 |            | 15      | 0         | 17.95                   | 17.25              | 33               | -15.75      |
|                                                      | 26365      | 1882.5          | 256QAM     | 1       | 0         | 19.11                   | 18.41              | 33               | -14.59      |
|                                                      |            |                 |            | 1       | 14        | 19.02                   | 18.32              | 33               | -14.68      |
|                                                      |            |                 |            | 8       | 4         | 18.26                   | 17.56              | 33               | -15.44      |
|                                                      |            |                 |            | 15      | 0         | 18.05                   | 17.35              | 33               | -15.65      |
|                                                      | 26675      | 1913.5          | 256QAM     | 1       | 0         | 18.93                   | 18.23              | 33               | -14.77      |
|                                                      |            |                 |            | 1       | 14        | 18.91                   | 18.21              | 33               | -14.79      |
|                                                      |            |                 |            | 8       | 4         | 18.08                   | 17.38              | 33               | -15.62      |
|                                                      |            |                 |            | 15      | 0         | 17.88                   | 17.18              | 33               | -15.82      |

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| Antenna gain (dBi)                                   |            | -0.7            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 25 Uplink frequency band : 1850 to 1915 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5                                                    | 26065      | 1852.5          | QPSK       | 1       | 0         | 23.32                   | 22.62              | 33               | -10.38      |
|                                                      |            |                 |            | 1       | 24        | 23.05                   | 22.35              | 33               | -10.65      |
|                                                      |            |                 |            | 12      | 6         | 22.52                   | 21.82              | 33               | -11.18      |
|                                                      |            |                 |            | 25      | 0         | 22.34                   | 21.64              | 33               | -11.36      |
|                                                      | 26365      | 1882.5          | QPSK       | 1       | 0         | 23.03                   | 22.33              | 33               | -10.67      |
|                                                      |            |                 |            | 1       | 24        | 23.12                   | 22.42              | 33               | -10.58      |
|                                                      |            |                 |            | 12      | 6         | 22.31                   | 21.61              | 33               | -11.39      |
|                                                      |            |                 |            | 25      | 0         | 22.35                   | 21.65              | 33               | -11.35      |
|                                                      | 26665      | 1912.5          | QPSK       | 1       | 0         | 23.13                   | 22.43              | 33               | -10.57      |
|                                                      |            |                 |            | 1       | 24        | 23.09                   | 22.39              | 33               | -10.61      |
|                                                      |            |                 |            | 12      | 6         | 22.39                   | 21.69              | 33               | -11.31      |
|                                                      |            |                 |            | 25      | 0         | 22.09                   | 21.39              | 33               | -11.61      |
|                                                      | 26065      | 1852.5          | 16QAM      | 1       | 0         | 23.07                   | 22.37              | 33               | -10.63      |
|                                                      |            |                 |            | 1       | 24        | 22.29                   | 21.59              | 33               | -11.41      |
|                                                      |            |                 |            | 12      | 6         | 21.40                   | 20.70              | 33               | -12.3       |
|                                                      |            |                 |            | 25      | 0         | 21.37                   | 20.67              | 33               | -12.33      |
|                                                      | 26365      | 1882.5          | 16QAM      | 1       | 0         | 22.40                   | 21.70              | 33               | -11.3       |
|                                                      |            |                 |            | 1       | 24        | 22.55                   | 21.85              | 33               | -11.15      |
|                                                      |            |                 |            | 12      | 6         | 21.16                   | 20.46              | 33               | -12.54      |
|                                                      |            |                 |            | 25      | 0         | 21.36                   | 20.66              | 33               | -12.34      |
|                                                      | 26665      | 1912.5          | 16QAM      | 1       | 0         | 22.35                   | 21.65              | 33               | -11.35      |
|                                                      |            |                 |            | 1       | 24        | 22.18                   | 21.48              | 33               | -11.52      |
|                                                      |            |                 |            | 12      | 6         | 21.37                   | 20.67              | 33               | -12.33      |
|                                                      |            |                 |            | 25      | 0         | 21.45                   | 20.75              | 33               | -12.25      |
|                                                      | 26065      | 1852.5          | 64QAM      | 1       | 0         | 22.00                   | 21.30              | 33               | -11.7       |
|                                                      |            |                 |            | 1       | 24        | 22.46                   | 21.76              | 33               | -11.24      |
|                                                      |            |                 |            | 12      | 6         | 21.24                   | 20.54              | 33               | -12.46      |
|                                                      |            |                 |            | 25      | 0         | 21.19                   | 20.49              | 33               | -12.51      |
|                                                      | 26365      | 1882.5          | 64QAM      | 1       | 0         | 22.26                   | 21.56              | 33               | -11.44      |
|                                                      |            |                 |            | 1       | 24        | 22.16                   | 21.46              | 33               | -11.54      |
|                                                      |            |                 |            | 12      | 6         | 21.16                   | 20.46              | 33               | -12.54      |
|                                                      |            |                 |            | 25      | 0         | 21.21                   | 20.51              | 33               | -12.49      |
|                                                      | 26665      | 1912.5          | 64QAM      | 1       | 0         | 22.19                   | 21.49              | 33               | -11.51      |
|                                                      |            |                 |            | 1       | 24        | 22.12                   | 21.42              | 33               | -11.58      |
|                                                      |            |                 |            | 12      | 6         | 21.21                   | 20.51              | 33               | -12.49      |
|                                                      |            |                 |            | 25      | 0         | 21.10                   | 20.40              | 33               | -12.6       |
|                                                      | 26065      | 1852.5          | 256QAM     | 1       | 0         | 19.29                   | 18.59              | 33               | -14.41      |
|                                                      |            |                 |            | 1       | 24        | 19.09                   | 18.39              | 33               | -14.61      |
|                                                      |            |                 |            | 12      | 6         | 18.23                   | 17.53              | 33               | -15.47      |
|                                                      |            |                 |            | 25      | 0         | 18.08                   | 17.38              | 33               | -15.62      |
|                                                      | 26365      | 1882.5          | 256QAM     | 1       | 0         | 19.16                   | 18.46              | 33               | -14.54      |
|                                                      |            |                 |            | 1       | 24        | 19.04                   | 18.34              | 33               | -14.66      |
|                                                      |            |                 |            | 12      | 6         | 18.29                   | 17.59              | 33               | -15.41      |
|                                                      |            |                 |            | 25      | 0         | 18.21                   | 17.51              | 33               | -15.49      |
|                                                      | 26665      | 1912.5          | 256QAM     | 1       | 0         | 18.98                   | 18.28              | 33               | -14.72      |
|                                                      |            |                 |            | 1       | 24        | 19.06                   | 18.36              | 33               | -14.64      |
|                                                      |            |                 |            | 12      | 6         | 18.27                   | 17.57              | 33               | -15.43      |
|                                                      |            |                 |            | 25      | 0         | 18.06                   | 17.36              | 33               | -15.64      |

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| Antenna gain (dBi)                                   |            | -0.7            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 25_Uplink frequency band : 1850 to 1915 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                   | 26090      | 1855            | QPSK       | 1       | 0         | 23.39                   | 22.69              | 33               | -10.31      |
|                                                      |            |                 |            | 1       | 49        | 23.12                   | 22.42              | 33               | -10.58      |
|                                                      |            |                 |            | 25      | 12        | 22.59                   | 21.89              | 33               | -11.11      |
|                                                      |            |                 |            | 50      | 0         | 22.36                   | 21.66              | 33               | -11.34      |
|                                                      | 26365      | 1882.5          | QPSK       | 1       | 0         | 23.12                   | 22.42              | 33               | -10.58      |
|                                                      |            |                 |            | 1       | 49        | 23.29                   | 22.59              | 33               | -10.41      |
|                                                      |            |                 |            | 25      | 12        | 22.31                   | 21.61              | 33               | -11.39      |
|                                                      |            |                 |            | 50      | 0         | 22.45                   | 21.75              | 33               | -11.25      |
|                                                      | 26640      | 1910            | QPSK       | 1       | 0         | 23.13                   | 22.43              | 33               | -10.57      |
|                                                      |            |                 |            | 1       | 49        | 23.25                   | 22.55              | 33               | -10.45      |
|                                                      |            |                 |            | 25      | 12        | 22.47                   | 21.77              | 33               | -11.23      |
|                                                      |            |                 |            | 50      | 0         | 22.27                   | 21.57              | 33               | -11.43      |
|                                                      | 26090      | 1855            | 16QAM      | 1       | 0         | 23.07                   | 22.37              | 33               | -10.63      |
|                                                      |            |                 |            | 1       | 49        | 22.41                   | 21.71              | 33               | -11.29      |
|                                                      |            |                 |            | 25      | 12        | 21.52                   | 20.82              | 33               | -12.18      |
|                                                      |            |                 |            | 50      | 0         | 21.56                   | 20.86              | 33               | -12.14      |
|                                                      | 26365      | 1882.5          | 16QAM      | 1       | 0         | 22.51                   | 21.81              | 33               | -11.19      |
|                                                      |            |                 |            | 1       | 49        | 22.67                   | 21.97              | 33               | -11.03      |
|                                                      |            |                 |            | 25      | 12        | 21.29                   | 20.59              | 33               | -12.41      |
|                                                      |            |                 |            | 50      | 0         | 21.42                   | 20.72              | 33               | -12.28      |
|                                                      | 26640      | 1910            | 16QAM      | 1       | 0         | 22.35                   | 21.65              | 33               | -11.35      |
|                                                      |            |                 |            | 1       | 49        | 22.24                   | 21.54              | 33               | -11.46      |
|                                                      |            |                 |            | 25      | 12        | 21.54                   | 20.84              | 33               | -12.16      |
|                                                      |            |                 |            | 50      | 0         | 21.47                   | 20.77              | 33               | -12.23      |
|                                                      | 26090      | 1855            | 64QAM      | 1       | 0         | 22.18                   | 21.48              | 33               | -11.52      |
|                                                      |            |                 |            | 1       | 49        | 22.48                   | 21.78              | 33               | -11.22      |
|                                                      |            |                 |            | 25      | 12        | 21.32                   | 20.62              | 33               | -12.38      |
|                                                      |            |                 |            | 50      | 0         | 21.30                   | 20.60              | 33               | -12.4       |
|                                                      | 26365      | 1882.5          | 64QAM      | 1       | 0         | 22.42                   | 21.72              | 33               | -11.28      |
|                                                      |            |                 |            | 1       | 49        | 22.30                   | 21.60              | 33               | -11.4       |
|                                                      |            |                 |            | 25      | 12        | 21.29                   | 20.59              | 33               | -12.41      |
|                                                      |            |                 |            | 50      | 0         | 21.36                   | 20.66              | 33               | -12.34      |
|                                                      | 26640      | 1910            | 64QAM      | 1       | 0         | 22.29                   | 21.59              | 33               | -11.41      |
|                                                      |            |                 |            | 1       | 49        | 22.30                   | 21.60              | 33               | -11.4       |
|                                                      |            |                 |            | 25      | 12        | 21.27                   | 20.57              | 33               | -12.43      |
|                                                      |            |                 |            | 50      | 0         | 21.25                   | 20.55              | 33               | -12.45      |
|                                                      | 26090      | 1855            | 256QAM     | 1       | 0         | 19.38                   | 18.68              | 33               | -14.32      |
|                                                      |            |                 |            | 1       | 49        | 19.19                   | 18.49              | 33               | -14.51      |
|                                                      |            |                 |            | 25      | 12        | 18.30                   | 17.60              | 33               | -15.4       |
|                                                      |            |                 |            | 50      | 0         | 18.26                   | 17.56              | 33               | -15.44      |
|                                                      | 26365      | 1882.5          | 256QAM     | 1       | 0         | 19.19                   | 18.49              | 33               | -14.51      |
|                                                      |            |                 |            | 1       | 49        | 19.16                   | 18.46              | 33               | -14.54      |
|                                                      |            |                 |            | 25      | 12        | 18.35                   | 17.65              | 33               | -15.35      |
|                                                      |            |                 |            | 50      | 0         | 18.35                   | 17.65              | 33               | -15.35      |
|                                                      | 26640      | 1910            | 256QAM     | 1       | 0         | 19.14                   | 18.44              | 33               | -14.56      |
|                                                      |            |                 |            | 1       | 49        | 19.13                   | 18.43              | 33               | -14.57      |
|                                                      |            |                 |            | 25      | 12        | 18.30                   | 17.60              | 33               | -15.4       |
|                                                      |            |                 |            | 50      | 0         | 18.16                   | 17.46              | 33               | -15.54      |

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| Antenna gain (dBi)                                   |            | -0.7            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 25 Uplink frequency band : 1850 to 1915 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                   | 26115      | 1857.5          | QPSK       | 1       | 0         | 23.41                   | 22.71              | 33               | -10.29      |
|                                                      |            |                 |            | 1       | 74        | 23.16                   | 22.46              | 33               | -10.54      |
|                                                      |            |                 |            | 36      | 18        | 22.62                   | 21.92              | 33               | -11.08      |
|                                                      |            |                 |            | 75      | 0         | 22.53                   | 21.83              | 33               | -11.17      |
|                                                      | 26365      | 1882.5          | QPSK       | 1       | 0         | 23.31                   | 22.61              | 33               | -10.39      |
|                                                      |            |                 |            | 1       | 74        | 23.29                   | 22.59              | 33               | -10.41      |
|                                                      |            |                 |            | 36      | 18        | 22.37                   | 21.67              | 33               | -11.33      |
|                                                      |            |                 |            | 75      | 0         | 22.47                   | 21.77              | 33               | -11.23      |
|                                                      | 26615      | 1907.5          | QPSK       | 1       | 0         | 23.30                   | 22.60              | 33               | -10.4       |
|                                                      |            |                 |            | 1       | 74        | 23.30                   | 22.60              | 33               | -10.4       |
|                                                      |            |                 |            | 36      | 18        | 22.52                   | 21.82              | 33               | -11.18      |
|                                                      |            |                 |            | 75      | 0         | 22.32                   | 21.62              | 33               | -11.38      |
|                                                      | 26115      | 1857.5          | 16QAM      | 1       | 0         | 23.07                   | 22.37              | 33               | -10.63      |
|                                                      |            |                 |            | 1       | 74        | 22.42                   | 21.72              | 33               | -11.28      |
|                                                      |            |                 |            | 36      | 18        | 21.54                   | 20.84              | 33               | -12.16      |
|                                                      |            |                 |            | 75      | 0         | 21.67                   | 20.97              | 33               | -12.03      |
|                                                      | 26365      | 1882.5          | 16QAM      | 1       | 0         | 22.68                   | 21.98              | 33               | -11.02      |
|                                                      |            |                 |            | 1       | 74        | 22.72                   | 22.02              | 33               | -10.98      |
|                                                      |            |                 |            | 36      | 18        | 21.48                   | 20.78              | 33               | -12.22      |
|                                                      |            |                 |            | 75      | 0         | 21.48                   | 20.78              | 33               | -12.22      |
|                                                      | 26615      | 1907.5          | 16QAM      | 1       | 0         | 22.54                   | 21.84              | 33               | -11.16      |
|                                                      |            |                 |            | 1       | 74        | 22.29                   | 21.59              | 33               | -11.41      |
|                                                      |            |                 |            | 36      | 18        | 21.56                   | 20.86              | 33               | -12.14      |
|                                                      |            |                 |            | 75      | 0         | 21.54                   | 20.84              | 33               | -12.16      |
|                                                      | 26115      | 1857.5          | 64QAM      | 1       | 0         | 22.29                   | 21.59              | 33               | -11.41      |
|                                                      |            |                 |            | 1       | 74        | 22.47                   | 21.77              | 33               | -11.23      |
|                                                      |            |                 |            | 36      | 18        | 21.49                   | 20.79              | 33               | -12.21      |
|                                                      |            |                 |            | 75      | 0         | 21.47                   | 20.77              | 33               | -12.23      |
|                                                      | 26365      | 1882.5          | 64QAM      | 1       | 0         | 22.49                   | 21.79              | 33               | -11.21      |
|                                                      |            |                 |            | 1       | 74        | 22.35                   | 21.65              | 33               | -11.35      |
|                                                      |            |                 |            | 36      | 18        | 21.34                   | 20.64              | 33               | -12.36      |
|                                                      |            |                 |            | 75      | 0         | 21.44                   | 20.74              | 33               | -12.26      |
|                                                      | 26615      | 1907.5          | 64QAM      | 1       | 0         | 22.47                   | 21.77              | 33               | -11.23      |
|                                                      |            |                 |            | 1       | 74        | 22.45                   | 21.75              | 33               | -11.25      |
|                                                      |            |                 |            | 36      | 18        | 21.44                   | 20.74              | 33               | -12.26      |
|                                                      |            |                 |            | 75      | 0         | 21.33                   | 20.63              | 33               | -12.37      |
|                                                      | 26115      | 1857.5          | 256QAM     | 1       | 0         | 19.38                   | 18.68              | 33               | -14.32      |
|                                                      |            |                 |            | 1       | 74        | 19.35                   | 18.65              | 33               | -14.35      |
|                                                      |            |                 |            | 36      | 18        | 18.37                   | 17.67              | 33               | -15.33      |
|                                                      |            |                 |            | 75      | 0         | 18.27                   | 17.57              | 33               | -15.43      |
|                                                      | 26365      | 1882.5          | 256QAM     | 1       | 0         | 19.31                   | 18.61              | 33               | -14.39      |
|                                                      |            |                 |            | 1       | 74        | 19.34                   | 18.64              | 33               | -14.36      |
|                                                      |            |                 |            | 36      | 18        | 18.36                   | 17.66              | 33               | -15.34      |
|                                                      |            |                 |            | 75      | 0         | 18.36                   | 17.66              | 33               | -15.34      |
|                                                      | 26615      | 1907.5          | 256QAM     | 1       | 0         | 19.20                   | 18.50              | 33               | -14.5       |
|                                                      |            |                 |            | 1       | 74        | 19.28                   | 18.58              | 33               | -14.42      |
|                                                      |            |                 |            | 36      | 18        | 18.38                   | 17.68              | 33               | -15.32      |
|                                                      |            |                 |            | 75      | 0         | 18.27                   | 17.57              | 33               | -15.43      |

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| Antenna gain (dBi)                                   |            | -0.7            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 25 Uplink frequency band : 1850 to 1915 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                   | 26140      | 1860            | QPSK       | 1       | 0         | 23.58                   | 22.88              | 33               | -10.12      |
|                                                      |            |                 |            | 1       | 99        | 23.35                   | 22.65              | 33               | -10.35      |
|                                                      |            |                 |            | 50      | 25        | 22.64                   | 21.94              | 33               | -11.06      |
|                                                      |            |                 |            | 100     | 0         | 22.57                   | 21.87              | 33               | -11.13      |
|                                                      | 26365      | 1882.5          | QPSK       | 1       | 0         | 23.48                   | 22.78              | 33               | -10.22      |
|                                                      |            |                 |            | 1       | 99        | 23.45                   | 22.75              | 33               | -10.25      |
|                                                      |            |                 |            | 50      | 25        | 22.55                   | 21.85              | 33               | -11.15      |
|                                                      |            |                 |            | 100     | 0         | 22.61                   | 21.91              | 33               | -11.09      |
|                                                      | 26590      | 1905            | QPSK       | 1       | 0         | 23.38                   | 22.68              | 33               | -10.32      |
|                                                      |            |                 |            | 1       | 99        | 23.37                   | 22.67              | 33               | -10.33      |
|                                                      |            |                 |            | 50      | 25        | 22.49                   | 21.79              | 33               | -11.21      |
|                                                      |            |                 |            | 100     | 0         | 22.49                   | 21.79              | 33               | -11.21      |
|                                                      | 26140      | 1860            | 16QAM      | 1       | 0         | 23.10                   | 22.40              | 33               | -10.6       |
|                                                      |            |                 |            | 1       | 99        | 22.55                   | 21.85              | 33               | -11.15      |
|                                                      |            |                 |            | 50      | 25        | 21.64                   | 20.94              | 33               | -12.06      |
|                                                      |            |                 |            | 100     | 0         | 21.72                   | 21.02              | 33               | -11.98      |
|                                                      | 26365      | 1882.5          | 16QAM      | 1       | 0         | 22.78                   | 22.08              | 33               | -10.92      |
|                                                      |            |                 |            | 1       | 99        | 22.83                   | 22.13              | 33               | -10.87      |
|                                                      |            |                 |            | 50      | 25        | 21.65                   | 20.95              | 33               | -12.05      |
|                                                      |            |                 |            | 100     | 0         | 21.54                   | 20.84              | 33               | -12.16      |
|                                                      | 26590      | 1905            | 16QAM      | 1       | 0         | 22.54                   | 21.84              | 33               | -11.16      |
|                                                      |            |                 |            | 1       | 99        | 22.47                   | 21.77              | 33               | -11.23      |
|                                                      |            |                 |            | 50      | 25        | 21.56                   | 20.86              | 33               | -12.14      |
|                                                      |            |                 |            | 100     | 0         | 21.55                   | 20.85              | 33               | -12.15      |
|                                                      | 26140      | 1860            | 64QAM      | 1       | 0         | 22.47                   | 21.77              | 33               | -11.23      |
|                                                      |            |                 |            | 1       | 99        | 22.48                   | 21.78              | 33               | -11.22      |
|                                                      |            |                 |            | 50      | 25        | 21.64                   | 20.94              | 33               | -12.06      |
|                                                      |            |                 |            | 100     | 0         | 21.59                   | 20.89              | 33               | -12.11      |
|                                                      | 26365      | 1882.5          | 64QAM      | 1       | 0         | 22.49                   | 21.79              | 33               | -11.21      |
|                                                      |            |                 |            | 1       | 99        | 22.47                   | 21.77              | 33               | -11.23      |
|                                                      |            |                 |            | 50      | 25        | 21.48                   | 20.78              | 33               | -12.22      |
|                                                      |            |                 |            | 100     | 0         | 21.50                   | 20.80              | 33               | -12.2       |
|                                                      | 26590      | 1905            | 64QAM      | 1       | 0         | 22.47                   | 21.77              | 33               | -11.23      |
|                                                      |            |                 |            | 1       | 99        | 22.43                   | 21.73              | 33               | -11.27      |
|                                                      |            |                 |            | 50      | 25        | 21.53                   | 20.83              | 33               | -12.17      |
|                                                      |            |                 |            | 100     | 0         | 21.51                   | 20.81              | 33               | -12.19      |
|                                                      | 26140      | 1860            | 256QAM     | 1       | 0         | 19.43                   | 18.73              | 33               | -14.27      |
|                                                      |            |                 |            | 1       | 99        | 19.49                   | 18.79              | 33               | -14.21      |
|                                                      |            |                 |            | 50      | 25        | 18.41                   | 17.71              | 33               | -15.29      |
|                                                      |            |                 |            | 100     | 0         | 18.41                   | 17.71              | 33               | -15.29      |
|                                                      | 26365      | 1882.5          | 256QAM     | 1       | 0         | 19.34                   | 18.64              | 33               | -14.36      |
|                                                      |            |                 |            | 1       | 99        | 19.45                   | 18.75              | 33               | -14.25      |
|                                                      |            |                 |            | 50      | 25        | 18.37                   | 17.67              | 33               | -15.33      |
|                                                      |            |                 |            | 100     | 0         | 18.44                   | 17.74              | 33               | -15.26      |
|                                                      | 26590      | 1905            | 256QAM     | 1       | 0         | 19.36                   | 18.66              | 33               | -14.34      |
|                                                      |            |                 |            | 1       | 99        | 19.47                   | 18.77              | 33               | -14.23      |
|                                                      |            |                 |            | 50      | 25        | 18.42                   | 17.72              | 33               | -15.28      |
|                                                      |            |                 |            | 100     | 0         | 18.36                   | 17.66              | 33               | -15.34      |

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| Antenna gain (dBi)                                 |               | -1.1               |            |            |              |                               |                         |                          |                       |                |  |  |
|----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|-----------------------|----------------|--|--|
| LTE Band 26_Uplink frequency band : 824 to 849 MHz |               |                    |            |            |              |                               |                         |                          |                       |                |  |  |
| BW<br>(MHz)                                        | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | ERP<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | ERP<br>Limit<br>(dBm) | Margin<br>(dB) |  |  |
| 1.4                                                | 26797         | 824.7              | QPSK       | 1          | 0            | 23.11                         | 19.86                   | 22.01                    | 38.45                 | -18.59         |  |  |
|                                                    |               |                    |            | 1          | 5            | 23.06                         | 19.81                   | 21.96                    | 38.45                 | -18.64         |  |  |
|                                                    |               |                    |            | 3          | 2            | 23.16                         | 19.91                   | 22.06                    | 38.45                 | -18.54         |  |  |
|                                                    |               |                    |            | 6          | 0            | 22.20                         | 18.95                   | 21.10                    | 38.45                 | -19.50         |  |  |
|                                                    | 26915         | 836.5              | QPSK       | 1          | 0            | 23.07                         | 19.82                   | 21.97                    | 38.45                 | -18.63         |  |  |
|                                                    |               |                    |            | 1          | 5            | 23.08                         | 19.83                   | 21.98                    | 38.45                 | -18.62         |  |  |
|                                                    |               |                    |            | 3          | 2            | 23.10                         | 19.85                   | 22.00                    | 38.45                 | -18.60         |  |  |
|                                                    |               |                    |            | 6          | 0            | 22.15                         | 18.90                   | 21.05                    | 38.45                 | -19.55         |  |  |
|                                                    | 27033         | 848.3              | QPSK       | 1          | 0            | 22.97                         | 19.72                   | 21.87                    | 38.45                 | -18.73         |  |  |
|                                                    |               |                    |            | 1          | 5            | 22.81                         | 19.56                   | 21.71                    | 38.45                 | -18.89         |  |  |
|                                                    |               |                    |            | 3          | 2            | 22.68                         | 19.43                   | 21.58                    | 38.45                 | -19.02         |  |  |
|                                                    |               |                    |            | 6          | 0            | 22.24                         | 18.99                   | 21.14                    | 38.45                 | -19.46         |  |  |
|                                                    | 26797         | 824.7              | 16QAM      | 1          | 0            | 22.04                         | 18.79                   | 20.94                    | 38.45                 | -19.66         |  |  |
|                                                    |               |                    |            | 1          | 5            | 21.92                         | 18.67                   | 20.82                    | 38.45                 | -19.78         |  |  |
|                                                    |               |                    |            | 3          | 2            | 22.16                         | 18.91                   | 21.06                    | 38.45                 | -19.54         |  |  |
|                                                    |               |                    |            | 6          | 0            | 21.19                         | 17.94                   | 20.09                    | 38.45                 | -20.51         |  |  |
|                                                    | 26915         | 836.5              | 16QAM      | 1          | 0            | 22.12                         | 18.87                   | 21.02                    | 38.45                 | -19.58         |  |  |
|                                                    |               |                    |            | 1          | 5            | 22.02                         | 18.77                   | 20.92                    | 38.45                 | -19.68         |  |  |
|                                                    |               |                    |            | 3          | 2            | 22.20                         | 18.95                   | 21.10                    | 38.45                 | -19.50         |  |  |
|                                                    |               |                    |            | 6          | 0            | 21.16                         | 17.91                   | 20.06                    | 38.45                 | -20.54         |  |  |
|                                                    | 27033         | 848.3              | 16QAM      | 1          | 0            | 21.97                         | 18.72                   | 20.87                    | 38.45                 | -19.73         |  |  |
|                                                    |               |                    |            | 1          | 5            | 21.73                         | 18.48                   | 20.63                    | 38.45                 | -19.97         |  |  |
|                                                    |               |                    |            | 3          | 2            | 21.56                         | 18.31                   | 20.46                    | 38.45                 | -20.14         |  |  |
|                                                    |               |                    |            | 6          | 0            | 21.55                         | 18.30                   | 20.45                    | 38.45                 | -20.15         |  |  |
|                                                    | 26797         | 824.7              | 64QAM      | 1          | 0            | 21.05                         | 17.80                   | 19.95                    | 38.45                 | -20.65         |  |  |
|                                                    |               |                    |            | 1          | 5            | 20.95                         | 17.70                   | 19.85                    | 38.45                 | -20.75         |  |  |
|                                                    |               |                    |            | 3          | 2            | 21.01                         | 17.76                   | 19.91                    | 38.45                 | -20.69         |  |  |
|                                                    |               |                    |            | 6          | 0            | 19.88                         | 16.63                   | 18.78                    | 38.45                 | -21.82         |  |  |
|                                                    | 26915         | 836.5              | 64QAM      | 1          | 0            | 21.27                         | 18.02                   | 20.17                    | 38.45                 | -20.43         |  |  |
|                                                    |               |                    |            | 1          | 5            | 21.07                         | 17.82                   | 19.97                    | 38.45                 | -20.63         |  |  |
|                                                    |               |                    |            | 3          | 2            | 21.21                         | 17.96                   | 20.11                    | 38.45                 | -20.49         |  |  |
|                                                    |               |                    |            | 6          | 0            | 20.11                         | 16.86                   | 19.01                    | 38.45                 | -21.59         |  |  |
|                                                    | 27033         | 848.3              | 64QAM      | 1          | 0            | 21.80                         | 18.55                   | 20.70                    | 38.45                 | -19.90         |  |  |
|                                                    |               |                    |            | 1          | 5            | 21.68                         | 18.43                   | 20.58                    | 38.45                 | -20.02         |  |  |
|                                                    |               |                    |            | 3          | 2            | 21.59                         | 18.34                   | 20.49                    | 38.45                 | -20.11         |  |  |
|                                                    |               |                    |            | 6          | 0            | 20.63                         | 17.38                   | 19.53                    | 38.45                 | -21.07         |  |  |
|                                                    | 26797         | 824.7              | 256QAM     | 1          | 0            | 18.31                         | 15.06                   | 17.21                    | 38.45                 | -23.39         |  |  |
|                                                    |               |                    |            | 1          | 5            | 18.35                         | 15.10                   | 17.25                    | 38.45                 | -23.35         |  |  |
|                                                    |               |                    |            | 3          | 2            | 18.41                         | 15.16                   | 17.31                    | 38.45                 | -23.29         |  |  |
|                                                    |               |                    |            | 6          | 0            | 18.32                         | 15.07                   | 17.22                    | 38.45                 | -23.38         |  |  |
|                                                    | 26915         | 836.5              | 256QAM     | 1          | 0            | 18.24                         | 14.99                   | 17.14                    | 38.45                 | -23.46         |  |  |
|                                                    |               |                    |            | 1          | 5            | 18.37                         | 15.12                   | 17.27                    | 38.45                 | -23.33         |  |  |
|                                                    |               |                    |            | 3          | 2            | 18.27                         | 15.02                   | 17.17                    | 38.45                 | -23.43         |  |  |
|                                                    |               |                    |            | 6          | 0            | 18.24                         | 14.99                   | 17.14                    | 38.45                 | -23.46         |  |  |
|                                                    | 27033         | 848.3              | 256QAM     | 1          | 0            | 18.88                         | 15.63                   | 17.78                    | 38.45                 | -22.82         |  |  |
|                                                    |               |                    |            | 1          | 5            | 18.94                         | 15.69                   | 17.84                    | 38.45                 | -22.76         |  |  |
|                                                    |               |                    |            | 3          | 2            | 18.98                         | 15.73                   | 17.88                    | 38.45                 | -22.72         |  |  |
|                                                    |               |                    |            | 6          | 0            | 18.04                         | 14.79                   | 16.94                    | 38.45                 | -23.66         |  |  |

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| Antenna gain (dBi)                                 |               | -1.1               |            |            |              |                               |                         |                          |                       |                |
|----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|-----------------------|----------------|
| LTE Band 26_Uplink frequency band : 824 to 849 MHz |               |                    |            |            |              |                               |                         |                          |                       |                |
| BW<br>(MHz)                                        | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | ERP<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | ERP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 3                                                  | 26805         | 825.5              | QPSK       | 1          | 0            | 23.19                         | 19.94                   | 22.09                    | 38.45                 | -18.51         |
|                                                    |               |                    |            | 1          | 14           | 23.25                         | 20.00                   | 22.15                    | 38.45                 | -18.45         |
|                                                    |               |                    |            | 8          | 4            | 22.36                         | 19.11                   | 21.26                    | 38.45                 | -19.34         |
|                                                    |               |                    |            | 15         | 0            | 22.30                         | 19.05                   | 21.20                    | 38.45                 | -19.40         |
|                                                    | 26915         | 836.5              | QPSK       | 1          | 0            | 23.14                         | 19.89                   | 22.04                    | 38.45                 | -18.56         |
|                                                    |               |                    |            | 1          | 14           | 23.17                         | 19.92                   | 22.07                    | 38.45                 | -18.53         |
|                                                    |               |                    |            | 8          | 4            | 22.25                         | 19.00                   | 21.15                    | 38.45                 | -19.45         |
|                                                    |               |                    |            | 15         | 0            | 22.25                         | 19.00                   | 21.15                    | 38.45                 | -19.45         |
|                                                    | 27025         | 847.5              | QPSK       | 1          | 0            | 23.13                         | 19.88                   | 22.03                    | 38.45                 | -18.57         |
|                                                    |               |                    |            | 1          | 14           | 22.85                         | 19.60                   | 21.75                    | 38.45                 | -18.85         |
|                                                    |               |                    |            | 8          | 4            | 22.33                         | 19.08                   | 21.23                    | 38.45                 | -19.37         |
|                                                    |               |                    |            | 15         | 0            | 22.33                         | 19.08                   | 21.23                    | 38.45                 | -19.37         |
|                                                    | 26805         | 825.5              | 16QAM      | 1          | 0            | 22.00                         | 18.75                   | 20.90                    | 38.45                 | -19.70         |
|                                                    |               |                    |            | 1          | 14           | 22.02                         | 18.77                   | 20.92                    | 38.45                 | -19.68         |
|                                                    |               |                    |            | 8          | 4            | 21.32                         | 18.07                   | 20.22                    | 38.45                 | -20.38         |
|                                                    |               |                    |            | 15         | 0            | 21.28                         | 18.03                   | 20.18                    | 38.45                 | -20.42         |
|                                                    | 26915         | 836.5              | 16QAM      | 1          | 0            | 22.08                         | 18.83                   | 20.98                    | 38.45                 | -19.62         |
|                                                    |               |                    |            | 1          | 14           | 22.08                         | 18.83                   | 20.98                    | 38.45                 | -19.62         |
|                                                    |               |                    |            | 8          | 4            | 21.39                         | 18.14                   | 20.29                    | 38.45                 | -20.31         |
|                                                    |               |                    |            | 15         | 0            | 21.28                         | 18.03                   | 20.18                    | 38.45                 | -20.42         |
|                                                    | 27025         | 847.5              | 16QAM      | 1          | 0            | 22.08                         | 18.83                   | 20.98                    | 38.45                 | -19.62         |
|                                                    |               |                    |            | 1          | 14           | 21.55                         | 18.30                   | 20.45                    | 38.45                 | -20.15         |
|                                                    |               |                    |            | 8          | 4            | 20.71                         | 17.46                   | 19.61                    | 38.45                 | -20.99         |
|                                                    |               |                    |            | 15         | 0            | 20.59                         | 17.34                   | 19.49                    | 38.45                 | -21.11         |
|                                                    | 26805         | 825.5              | 64QAM      | 1          | 0            | 21.07                         | 17.82                   | 19.97                    | 38.45                 | -20.63         |
|                                                    |               |                    |            | 1          | 14           | 20.95                         | 17.70                   | 19.85                    | 38.45                 | -20.75         |
|                                                    |               |                    |            | 8          | 4            | 19.89                         | 16.64                   | 18.79                    | 38.45                 | -21.81         |
|                                                    |               |                    |            | 15         | 0            | 19.92                         | 16.67                   | 18.82                    | 38.45                 | -21.78         |
|                                                    | 26915         | 836.5              | 64QAM      | 1          | 0            | 21.27                         | 18.02                   | 20.17                    | 38.45                 | -20.43         |
|                                                    |               |                    |            | 1          | 14           | 21.33                         | 18.08                   | 20.23                    | 38.45                 | -20.37         |
|                                                    |               |                    |            | 8          | 4            | 20.37                         | 17.12                   | 19.27                    | 38.45                 | -21.33         |
|                                                    |               |                    |            | 15         | 0            | 20.33                         | 17.08                   | 19.23                    | 38.45                 | -21.37         |
|                                                    | 27025         | 847.5              | 64QAM      | 1          | 0            | 21.92                         | 18.67                   | 20.82                    | 38.45                 | -19.78         |
|                                                    |               |                    |            | 1          | 14           | 21.58                         | 18.33                   | 20.48                    | 38.45                 | -20.12         |
|                                                    |               |                    |            | 8          | 4            | 20.67                         | 17.42                   | 19.57                    | 38.45                 | -21.03         |
|                                                    |               |                    |            | 15         | 0            | 20.73                         | 17.48                   | 19.63                    | 38.45                 | -20.97         |
|                                                    | 26805         | 825.5              | 256QAM     | 1          | 0            | 18.49                         | 15.24                   | 17.39                    | 38.45                 | -23.21         |
|                                                    |               |                    |            | 1          | 14           | 18.40                         | 15.15                   | 17.30                    | 38.45                 | -23.30         |
|                                                    |               |                    |            | 8          | 4            | 18.42                         | 15.17                   | 17.32                    | 38.45                 | -23.28         |
|                                                    |               |                    |            | 15         | 0            | 18.41                         | 15.16                   | 17.31                    | 38.45                 | -23.29         |
|                                                    | 26915         | 836.5              | 256QAM     | 1          | 0            | 18.40                         | 15.15                   | 17.30                    | 38.45                 | -23.30         |
|                                                    |               |                    |            | 1          | 14           | 18.35                         | 15.10                   | 17.25                    | 38.45                 | -23.35         |
|                                                    |               |                    |            | 8          | 4            | 18.43                         | 15.18                   | 17.33                    | 38.45                 | -23.27         |
|                                                    |               |                    |            | 15         | 0            | 18.39                         | 15.14                   | 17.29                    | 38.45                 | -23.31         |
|                                                    | 27025         | 847.5              | 256QAM     | 1          | 0            | 19.07                         | 15.82                   | 17.97                    | 38.45                 | -22.63         |
|                                                    |               |                    |            | 1          | 14           | 18.94                         | 15.69                   | 17.84                    | 38.45                 | -22.76         |
|                                                    |               |                    |            | 8          | 4            | 18.15                         | 14.90                   | 17.05                    | 38.45                 | -23.55         |
|                                                    |               |                    |            | 15         | 0            | 18.17                         | 14.92                   | 17.07                    | 38.45                 | -23.53         |

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| Antenna gain (dBi)                                 | -1.1       |                 |            |         |           |                         |                   |                    |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 26 Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5                                                  | 26815      | 826.5           | QPSK       | 1       | 0         | 23.22                   | 19.97             | 22.12              | 38.45           | -18.48      |
|                                                    |            |                 |            | 1       | 24        | 23.25                   | 20.00             | 22.15              | 38.45           | -18.45      |
|                                                    |            |                 |            | 12      | 6         | 22.35                   | 19.10             | 21.25              | 38.45           | -19.35      |
|                                                    |            |                 |            | 25      | 0         | 22.34                   | 19.09             | 21.24              | 38.45           | -19.36      |
|                                                    | 26915      | 836.5           | QPSK       | 1       | 0         | 23.18                   | 19.93             | 22.08              | 38.45           | -18.52      |
|                                                    |            |                 |            | 1       | 24        | 23.20                   | 19.95             | 22.10              | 38.45           | -18.50      |
|                                                    |            |                 |            | 12      | 6         | 22.27                   | 19.02             | 21.17              | 38.45           | -19.43      |
|                                                    |            |                 |            | 25      | 0         | 22.27                   | 19.02             | 21.17              | 38.45           | -19.43      |
|                                                    | 27015      | 846.5           | QPSK       | 1       | 0         | 23.24                   | 19.99             | 22.14              | 38.45           | -18.46      |
|                                                    |            |                 |            | 1       | 24        | 23.00                   | 19.75             | 21.90              | 38.45           | -18.70      |
|                                                    |            |                 |            | 12      | 6         | 22.43                   | 19.18             | 21.33              | 38.45           | -19.27      |
|                                                    |            |                 |            | 25      | 0         | 22.34                   | 19.09             | 21.24              | 38.45           | -19.36      |
|                                                    | 26815      | 826.5           | 16QAM      | 1       | 0         | 22.38                   | 19.13             | 21.28              | 38.45           | -19.32      |
|                                                    |            |                 |            | 1       | 24        | 22.48                   | 19.23             | 21.38              | 38.45           | -19.22      |
|                                                    |            |                 |            | 12      | 6         | 21.28                   | 18.03             | 20.18              | 38.45           | -20.42      |
|                                                    |            |                 |            | 25      | 0         | 21.34                   | 18.09             | 20.24              | 38.45           | -20.36      |
|                                                    | 26915      | 836.5           | 16QAM      | 1       | 0         | 22.50                   | 19.25             | 21.40              | 38.45           | -19.20      |
|                                                    |            |                 |            | 1       | 24        | 22.18                   | 18.93             | 21.08              | 38.45           | -19.52      |
|                                                    |            |                 |            | 12      | 6         | 21.21                   | 17.96             | 20.11              | 38.45           | -20.49      |
|                                                    |            |                 |            | 25      | 0         | 21.23                   | 17.98             | 20.13              | 38.45           | -20.47      |
|                                                    | 27015      | 846.5           | 16QAM      | 1       | 0         | 22.10                   | 18.85             | 21.00              | 38.45           | -19.60      |
|                                                    |            |                 |            | 1       | 24        | 21.50                   | 18.25             | 20.40              | 38.45           | -20.20      |
|                                                    |            |                 |            | 12      | 6         | 20.87                   | 17.62             | 19.77              | 38.45           | -20.83      |
|                                                    |            |                 |            | 25      | 0         | 20.73                   | 17.48             | 19.63              | 38.45           | -20.97      |
|                                                    | 26815      | 826.5           | 64QAM      | 1       | 0         | 21.13                   | 17.88             | 20.03              | 38.45           | -20.57      |
|                                                    |            |                 |            | 1       | 24        | 20.66                   | 17.41             | 19.56              | 38.45           | -21.04      |
|                                                    |            |                 |            | 12      | 6         | 19.89                   | 16.64             | 18.79              | 38.45           | -21.81      |
|                                                    |            |                 |            | 25      | 0         | 19.73                   | 16.48             | 18.63              | 38.45           | -21.97      |
|                                                    | 26915      | 836.5           | 64QAM      | 1       | 0         | 21.00                   | 17.75             | 19.90              | 38.45           | -20.70      |
|                                                    |            |                 |            | 1       | 24        | 21.14                   | 17.89             | 20.04              | 38.45           | -20.56      |
|                                                    |            |                 |            | 12      | 6         | 20.26                   | 17.01             | 19.16              | 38.45           | -21.44      |
|                                                    |            |                 |            | 25      | 0         | 20.30                   | 17.05             | 19.20              | 38.45           | -21.40      |
|                                                    | 27015      | 846.5           | 64QAM      | 1       | 0         | 22.04                   | 18.79             | 20.94              | 38.45           | -19.66      |
|                                                    |            |                 |            | 1       | 24        | 21.57                   | 18.32             | 20.47              | 38.45           | -20.13      |
|                                                    |            |                 |            | 12      | 6         | 20.76                   | 17.51             | 19.66              | 38.45           | -20.94      |
|                                                    |            |                 |            | 25      | 0         | 20.86                   | 17.61             | 19.76              | 38.45           | -20.84      |
|                                                    | 26815      | 826.5           | 256QAM     | 1       | 0         | 18.42                   | 15.17             | 17.32              | 38.45           | -23.28      |
|                                                    |            |                 |            | 1       | 24        | 18.31                   | 15.06             | 17.21              | 38.45           | -23.39      |
|                                                    |            |                 |            | 12      | 6         | 18.38                   | 15.13             | 17.28              | 38.45           | -23.32      |
|                                                    |            |                 |            | 25      | 0         | 18.40                   | 15.15             | 17.30              | 38.45           | -23.30      |
|                                                    | 26915      | 836.5           | 256QAM     | 1       | 0         | 18.35                   | 15.10             | 17.25              | 38.45           | -23.35      |
|                                                    |            |                 |            | 1       | 24        | 18.35                   | 15.10             | 17.25              | 38.45           | -23.35      |
|                                                    |            |                 |            | 12      | 6         | 18.28                   | 15.03             | 17.18              | 38.45           | -23.42      |
|                                                    |            |                 |            | 25      | 0         | 18.33                   | 15.08             | 17.23              | 38.45           | -23.37      |
|                                                    | 27015      | 846.5           | 256QAM     | 1       | 0         | 19.22                   | 15.97             | 18.12              | 38.45           | -22.48      |
|                                                    |            |                 |            | 1       | 24        | 19.05                   | 15.80             | 17.95              | 38.45           | -22.65      |
|                                                    |            |                 |            | 12      | 6         | 18.20                   | 14.95             | 17.10              | 38.45           | -23.50      |
|                                                    |            |                 |            | 25      | 0         | 18.27                   | 15.02             | 17.17              | 38.45           | -23.43      |

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| Antenna gain (dBi)                                 | -1.1       |                 |            |         |           |                         |                   |                    |                 |             |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 26 Uplink frequency band : 824 to 849 MHz |            |                 |            |         |           |                         |                   |                    |                 |             |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                 | 26840      | 829             | QPSK       | 1       | 0         | 23.17                   | 19.92             | 22.07              | 38.45           | -18.53      |
|                                                    |            |                 |            | 1       | 49        | 22.96                   | 19.71             | 21.86              | 38.45           | -18.74      |
|                                                    |            |                 |            | 25      | 12        | 22.36                   | 19.11             | 21.26              | 38.45           | -19.34      |
|                                                    |            |                 |            | 50      | 0         | 22.30                   | 19.05             | 21.20              | 38.45           | -19.40      |
|                                                    | 26915      | 836.5           | QPSK       | 1       | 0         | 23.11                   | 19.86             | 22.01              | 38.45           | -18.59      |
|                                                    |            |                 |            | 1       | 49        | 23.30                   | 20.05             | 22.20              | 38.45           | -18.40      |
|                                                    |            |                 |            | 25      | 12        | 22.14                   | 18.89             | 21.04              | 38.45           | -19.56      |
|                                                    |            |                 |            | 50      | 0         | 22.22                   | 18.97             | 21.12              | 38.45           | -19.48      |
|                                                    | 26990      | 844             | QPSK       | 1       | 0         | 23.43                   | 20.18             | 22.33              | 38.45           | -18.27      |
|                                                    |            |                 |            | 1       | 49        | 23.15                   | 19.90             | 22.05              | 38.45           | -18.55      |
|                                                    |            |                 |            | 25      | 12        | 22.49                   | 19.24             | 21.39              | 38.45           | -19.21      |
|                                                    |            |                 |            | 50      | 0         | 22.44                   | 19.19             | 21.34              | 38.45           | -19.26      |
|                                                    | 26840      | 829             | 16QAM      | 1       | 0         | 22.52                   | 19.27             | 21.42              | 38.45           | -19.18      |
|                                                    |            |                 |            | 1       | 49        | 22.16                   | 18.91             | 21.06              | 38.45           | -19.54      |
|                                                    |            |                 |            | 25      | 12        | 21.34                   | 18.09             | 20.24              | 38.45           | -20.36      |
|                                                    |            |                 |            | 50      | 0         | 21.22                   | 17.97             | 20.12              | 38.45           | -20.48      |
|                                                    | 26915      | 836.5           | 16QAM      | 1       | 0         | 22.62                   | 19.37             | 21.52              | 38.45           | -19.08      |
|                                                    |            |                 |            | 1       | 49        | 22.32                   | 19.07             | 21.22              | 38.45           | -19.38      |
|                                                    |            |                 |            | 25      | 12        | 21.14                   | 17.89             | 20.04              | 38.45           | -20.56      |
|                                                    |            |                 |            | 50      | 0         | 21.25                   | 18.00             | 20.15              | 38.45           | -20.45      |
|                                                    | 26990      | 844             | 16QAM      | 1       | 0         | 22.21                   | 18.96             | 21.11              | 38.45           | -19.49      |
|                                                    |            |                 |            | 1       | 49        | 22.21                   | 18.96             | 21.11              | 38.45           | -19.49      |
|                                                    |            |                 |            | 25      | 12        | 20.93                   | 17.68             | 19.83              | 38.45           | -20.77      |
|                                                    |            |                 |            | 50      | 0         | 20.88                   | 17.63             | 19.78              | 38.45           | -20.82      |
|                                                    | 26840      | 829             | 64QAM      | 1       | 0         | 21.40                   | 18.15             | 20.30              | 38.45           | -20.30      |
|                                                    |            |                 |            | 1       | 49        | 21.29                   | 18.04             | 20.19              | 38.45           | -20.41      |
|                                                    |            |                 |            | 25      | 12        | 20.01                   | 16.76             | 18.91              | 38.45           | -21.69      |
|                                                    |            |                 |            | 50      | 0         | 20.07                   | 16.82             | 18.97              | 38.45           | -21.63      |
|                                                    | 26915      | 836.5           | 64QAM      | 1       | 0         | 20.90                   | 17.65             | 19.80              | 38.45           | -20.80      |
|                                                    |            |                 |            | 1       | 49        | 20.64                   | 17.39             | 19.54              | 38.45           | -21.06      |
|                                                    |            |                 |            | 25      | 12        | 20.19                   | 16.94             | 19.09              | 38.45           | -21.51      |
|                                                    |            |                 |            | 50      | 0         | 20.25                   | 17.00             | 19.15              | 38.45           | -21.45      |
|                                                    | 26990      | 844             | 64QAM      | 1       | 0         | 22.16                   | 18.91             | 21.06              | 38.45           | -19.54      |
|                                                    |            |                 |            | 1       | 49        | 21.54                   | 18.29             | 20.44              | 38.45           | -20.16      |
|                                                    |            |                 |            | 25      | 12        | 20.83                   | 17.58             | 19.73              | 38.45           | -20.87      |
|                                                    |            |                 |            | 50      | 0         | 21.02                   | 17.77             | 19.92              | 38.45           | -20.68      |
|                                                    | 26840      | 829             | 256QAM     | 1       | 0         | 18.23                   | 14.98             | 17.13              | 38.45           | -23.47      |
|                                                    |            |                 |            | 1       | 49        | 18.41                   | 15.16             | 17.31              | 38.45           | -23.29      |
|                                                    |            |                 |            | 25      | 12        | 18.34                   | 15.09             | 17.24              | 38.45           | -23.36      |
|                                                    |            |                 |            | 50      | 0         | 18.32                   | 15.07             | 17.22              | 38.45           | -23.38      |
|                                                    | 26915      | 836.5           | 256QAM     | 1       | 0         | 18.28                   | 15.03             | 17.18              | 38.45           | -23.42      |
|                                                    |            |                 |            | 1       | 49        | 18.43                   | 15.18             | 17.33              | 38.45           | -23.27      |
|                                                    |            |                 |            | 25      | 12        | 18.33                   | 15.08             | 17.23              | 38.45           | -23.37      |
|                                                    |            |                 |            | 50      | 0         | 18.39                   | 15.14             | 17.29              | 38.45           | -23.31      |
|                                                    | 26990      | 844             | 256QAM     | 1       | 0         | 19.37                   | 16.12             | 18.27              | 38.45           | -22.33      |
|                                                    |            |                 |            | 1       | 49        | 19.13                   | 15.88             | 18.03              | 38.45           | -22.57      |
|                                                    |            |                 |            | 25      | 12        | 18.31                   | 15.06             | 17.21              | 38.45           | -23.39      |
|                                                    |            |                 |            | 50      | 0         | 18.37                   | 15.12             | 17.27              | 38.45           | -23.33      |

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| Antenna gain (dBi)                                 |               | -1.1               |            |            |              |                               |                         |                          |                       |                |
|----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|-----------------------|----------------|
| LTE Band 26_Uplink frequency band : 824 to 849 MHz |               |                    |            |            |              |                               |                         |                          |                       |                |
| BW<br>(MHz)                                        | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | ERP<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | ERP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 15                                                 | 26865         | 831.5              | QPSK       | 1          | 0            | 23.53                         | 20.28                   | 22.43                    | 38.45                 | -18.17         |
|                                                    |               |                    |            | 1          | 74           | 23.43                         | 20.18                   | 22.33                    | 38.45                 | -18.27         |
|                                                    |               |                    |            | 36         | 18           | 22.57                         | 19.32                   | 21.47                    | 38.45                 | -19.13         |
|                                                    |               |                    |            | 75         | 0            | 22.59                         | 19.34                   | 21.49                    | 38.45                 | -19.11         |
|                                                    | 26915         | 836.5              | QPSK       | 1          | 0            | 23.09                         | 19.84                   | 21.99                    | 38.45                 | -18.61         |
|                                                    |               |                    |            | 1          | 74           | 22.59                         | 19.34                   | 21.49                    | 38.45                 | -19.11         |
|                                                    |               |                    |            | 36         | 18           | 22.20                         | 18.95                   | 21.10                    | 38.45                 | -19.50         |
|                                                    |               |                    |            | 75         | 0            | 22.25                         | 19.00                   | 21.15                    | 38.45                 | -19.45         |
|                                                    | 26965         | 841.5              | QPSK       | 1          | 0            | 23.46                         | 20.21                   | 22.36                    | 38.45                 | -18.24         |
|                                                    |               |                    |            | 1          | 74           | 23.17                         | 19.92                   | 22.07                    | 38.45                 | -18.53         |
|                                                    |               |                    |            | 36         | 18           | 22.58                         | 19.33                   | 21.48                    | 38.45                 | -19.12         |
|                                                    |               |                    |            | 75         | 0            | 22.53                         | 19.28                   | 21.43                    | 38.45                 | -19.17         |
|                                                    | 26865         | 831.5              | 16QAM      | 1          | 0            | 22.43                         | 19.18                   | 21.33                    | 38.45                 | -19.27         |
|                                                    |               |                    |            | 1          | 74           | 22.19                         | 18.94                   | 21.09                    | 38.45                 | -19.51         |
|                                                    |               |                    |            | 36         | 18           | 21.07                         | 17.82                   | 19.97                    | 38.45                 | -20.63         |
|                                                    |               |                    |            | 75         | 0            | 21.11                         | 17.86                   | 20.01                    | 38.45                 | -20.59         |
|                                                    | 26915         | 836.5              | 16QAM      | 1          | 0            | 22.07                         | 18.82                   | 20.97                    | 38.45                 | -19.63         |
|                                                    |               |                    |            | 1          | 74           | 22.02                         | 18.77                   | 20.92                    | 38.45                 | -19.68         |
|                                                    |               |                    |            | 36         | 18           | 21.21                         | 17.96                   | 20.11                    | 38.45                 | -20.49         |
|                                                    |               |                    |            | 75         | 0            | 21.19                         | 17.94                   | 20.09                    | 38.45                 | -20.51         |
|                                                    | 26965         | 841.5              | 16QAM      | 1          | 0            | 22.33                         | 19.08                   | 21.23                    | 38.45                 | -19.37         |
|                                                    |               |                    |            | 1          | 74           | 21.56                         | 18.31                   | 20.46                    | 38.45                 | -20.14         |
|                                                    |               |                    |            | 36         | 18           | 21.01                         | 17.76                   | 19.91                    | 38.45                 | -20.69         |
|                                                    |               |                    |            | 75         | 0            | 21.05                         | 17.80                   | 19.95                    | 38.45                 | -20.65         |
|                                                    | 26865         | 831.5              | 64QAM      | 1          | 0            | 22.30                         | 19.05                   | 21.20                    | 38.45                 | -19.40         |
|                                                    |               |                    |            | 1          | 74           | 22.10                         | 18.85                   | 21.00                    | 38.45                 | -19.60         |
|                                                    |               |                    |            | 36         | 18           | 21.09                         | 17.84                   | 19.99                    | 38.45                 | -20.61         |
|                                                    |               |                    |            | 75         | 0            | 21.12                         | 17.87                   | 20.02                    | 38.45                 | -20.58         |
|                                                    | 26915         | 836.5              | 64QAM      | 1          | 0            | 21.21                         | 17.96                   | 20.11                    | 38.45                 | -20.49         |
|                                                    |               |                    |            | 1          | 74           | 20.57                         | 17.32                   | 19.47                    | 38.45                 | -21.13         |
|                                                    |               |                    |            | 36         | 18           | 20.22                         | 16.97                   | 19.12                    | 38.45                 | -21.48         |
|                                                    |               |                    |            | 75         | 0            | 20.26                         | 17.01                   | 19.16                    | 38.45                 | -21.44         |
|                                                    | 26965         | 841.5              | 64QAM      | 1          | 0            | 22.16                         | 18.91                   | 21.06                    | 38.45                 | -19.54         |
|                                                    |               |                    |            | 1          | 74           | 21.61                         | 18.36                   | 20.51                    | 38.45                 | -20.09         |
|                                                    |               |                    |            | 36         | 18           | 21.01                         | 17.76                   | 19.91                    | 38.45                 | -20.69         |
|                                                    |               |                    |            | 75         | 0            | 21.04                         | 17.79                   | 19.94                    | 38.45                 | -20.66         |
|                                                    | 26865         | 831.5              | 256QAM     | 1          | 0            | 19.42                         | 16.17                   | 18.32                    | 38.45                 | -22.28         |
|                                                    |               |                    |            | 1          | 74           | 19.39                         | 16.14                   | 18.29                    | 38.45                 | -22.31         |
|                                                    |               |                    |            | 36         | 18           | 18.29                         | 15.04                   | 17.19                    | 38.45                 | -23.41         |
|                                                    |               |                    |            | 75         | 0            | 18.31                         | 15.06                   | 17.21                    | 38.45                 | -23.39         |
|                                                    | 26915         | 836.5              | 256QAM     | 1          | 0            | 18.27                         | 15.02                   | 17.17                    | 38.45                 | -23.43         |
|                                                    |               |                    |            | 1          | 74           | 18.45                         | 15.20                   | 17.35                    | 38.45                 | -23.25         |
|                                                    |               |                    |            | 36         | 18           | 18.33                         | 15.08                   | 17.23                    | 38.45                 | -23.37         |
|                                                    |               |                    |            | 75         | 0            | 18.36                         | 15.11                   | 17.26                    | 38.45                 | -23.34         |
|                                                    | 26965         | 841.5              | 256QAM     | 1          | 0            | 19.39                         | 16.14                   | 18.29                    | 38.45                 | -22.31         |
|                                                    |               |                    |            | 1          | 74           | 19.32                         | 16.07                   | 18.22                    | 38.45                 | -22.38         |
|                                                    |               |                    |            | 36         | 18           | 18.36                         | 15.11                   | 17.26                    | 38.45                 | -23.34         |
|                                                    |               |                    |            | 75         | 0            | 18.37                         | 15.12                   | 17.27                    | 38.45                 | -23.33         |

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| Antenna gain (dBi)                                          |            | -1.1            |            |         |           |                         |                   |                    |                 |             |  |  |
|-------------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|--|--|
| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz |            |                 |            |         |           |                         |                   |                    |                 |             |  |  |
| BW (MHz)                                                    | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |  |  |
| 1.4                                                         | 26697      | 814.7           | QPSK       | 1       | 0         | 23.06                   | 19.81             | 21.96              | 50              | -30.19      |  |  |
|                                                             |            |                 |            | 1       | 5         | 23.00                   | 19.75             | 21.90              | 50              | -30.25      |  |  |
|                                                             |            |                 |            | 3       | 2         | 22.94                   | 19.69             | 21.84              | 50              | -30.31      |  |  |
|                                                             |            |                 |            | 6       | 0         | 22.26                   | 19.01             | 21.16              | 50              | -30.99      |  |  |
|                                                             | 26740      | 819             | QPSK       | 1       | 0         | 23.19                   | 19.94             | 22.09              | 50              | -30.06      |  |  |
|                                                             |            |                 |            | 1       | 5         | 23.23                   | 19.98             | 22.13              | 50              | -30.02      |  |  |
|                                                             |            |                 |            | 3       | 2         | 23.23                   | 19.98             | 22.13              | 50              | -30.02      |  |  |
|                                                             |            |                 |            | 6       | 0         | 22.29                   | 19.04             | 21.19              | 50              | -30.96      |  |  |
|                                                             | 26783      | 823.3           | QPSK       | 1       | 0         | 23.14                   | 19.89             | 22.04              | 50              | -30.11      |  |  |
|                                                             |            |                 |            | 1       | 5         | 23.11                   | 19.86             | 22.01              | 50              | -30.14      |  |  |
|                                                             |            |                 |            | 3       | 2         | 23.28                   | 20.03             | 22.18              | 50              | -29.97      |  |  |
|                                                             |            |                 |            | 6       | 0         | 22.21                   | 18.96             | 21.11              | 50              | -31.04      |  |  |
|                                                             | 26697      | 814.7           | 16QAM      | 1       | 0         | 22.00                   | 18.75             | 20.90              | 50              | -31.25      |  |  |
|                                                             |            |                 |            | 1       | 5         | 21.80                   | 18.55             | 20.70              | 50              | -31.45      |  |  |
|                                                             |            |                 |            | 3       | 2         | 21.71                   | 18.46             | 20.61              | 50              | -31.54      |  |  |
|                                                             |            |                 |            | 6       | 0         | 21.45                   | 18.20             | 20.35              | 50              | -31.80      |  |  |
|                                                             | 26740      | 819             | 16QAM      | 1       | 0         | 22.17                   | 18.92             | 21.07              | 50              | -31.08      |  |  |
|                                                             |            |                 |            | 1       | 5         | 22.02                   | 18.77             | 20.92              | 50              | -31.23      |  |  |
|                                                             |            |                 |            | 3       | 2         | 22.28                   | 19.03             | 21.18              | 50              | -30.97      |  |  |
|                                                             |            |                 |            | 6       | 0         | 21.38                   | 18.13             | 20.28              | 50              | -31.87      |  |  |
|                                                             | 26783      | 823.3           | 16QAM      | 1       | 0         | 21.98                   | 18.73             | 20.88              | 50              | -31.27      |  |  |
|                                                             |            |                 |            | 1       | 5         | 21.94                   | 18.69             | 20.84              | 50              | -31.31      |  |  |
|                                                             |            |                 |            | 3       | 2         | 22.23                   | 18.98             | 21.13              | 50              | -31.02      |  |  |
|                                                             |            |                 |            | 6       | 0         | 21.22                   | 17.97             | 20.12              | 50              | -32.03      |  |  |
|                                                             | 26697      | 814.7           | 64QAM      | 1       | 0         | 22.08                   | 18.83             | 20.98              | 50              | -31.17      |  |  |
|                                                             |            |                 |            | 1       | 5         | 21.68                   | 18.43             | 20.58              | 50              | -31.57      |  |  |
|                                                             |            |                 |            | 3       | 2         | 21.70                   | 18.45             | 20.60              | 50              | -31.55      |  |  |
|                                                             |            |                 |            | 6       | 0         | 21.64                   | 18.39             | 20.54              | 50              | -31.61      |  |  |
|                                                             | 26740      | 819             | 64QAM      | 1       | 0         | 21.28                   | 18.03             | 20.18              | 50              | -31.97      |  |  |
|                                                             |            |                 |            | 1       | 5         | 21.15                   | 17.90             | 20.05              | 50              | -32.10      |  |  |
|                                                             |            |                 |            | 3       | 2         | 21.34                   | 18.09             | 20.24              | 50              | -31.91      |  |  |
|                                                             |            |                 |            | 6       | 0         | 20.10                   | 16.85             | 19.00              | 50              | -33.15      |  |  |
|                                                             | 26783      | 823.3           | 64QAM      | 1       | 0         | 21.30                   | 18.05             | 20.20              | 50              | -31.95      |  |  |
|                                                             |            |                 |            | 1       | 5         | 21.00                   | 17.75             | 19.90              | 50              | -32.25      |  |  |
|                                                             |            |                 |            | 3       | 2         | 21.08                   | 17.83             | 19.98              | 50              | -32.17      |  |  |
|                                                             |            |                 |            | 6       | 0         | 20.19                   | 16.94             | 19.09              | 50              | -33.06      |  |  |
|                                                             | 26697      | 814.7           | 256QAM     | 1       | 0         | 18.93                   | 15.68             | 17.83              | 50              | -34.32      |  |  |
|                                                             |            |                 |            | 1       | 5         | 18.99                   | 15.74             | 17.89              | 50              | -34.26      |  |  |
|                                                             |            |                 |            | 3       | 2         | 19.07                   | 15.82             | 17.97              | 50              | -34.18      |  |  |
|                                                             |            |                 |            | 6       | 0         | 18.10                   | 14.85             | 17.00              | 50              | -35.15      |  |  |
|                                                             | 26740      | 819             | 256QAM     | 1       | 0         | 18.49                   | 15.24             | 17.39              | 50              | -34.76      |  |  |
|                                                             |            |                 |            | 1       | 5         | 18.36                   | 15.11             | 17.26              | 50              | -34.89      |  |  |
|                                                             |            |                 |            | 3       | 2         | 18.51                   | 15.26             | 17.41              | 50              | -34.74      |  |  |
|                                                             |            |                 |            | 6       | 0         | 18.27                   | 15.02             | 17.17              | 50              | -34.98      |  |  |
|                                                             | 26783      | 823.3           | 256QAM     | 1       | 0         | 18.33                   | 15.08             | 17.23              | 50              | -34.92      |  |  |
|                                                             |            |                 |            | 1       | 5         | 18.34                   | 15.09             | 17.24              | 50              | -34.91      |  |  |
|                                                             |            |                 |            | 3       | 2         | 18.47                   | 15.22             | 17.37              | 50              | -34.78      |  |  |
|                                                             |            |                 |            | 6       | 0         | 18.23                   | 14.98             | 17.13              | 50              | -35.02      |  |  |

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| Antenna gain (dBi)                                          |            | -1.1            |            |         |           |                         |                   |                    |                 |             |  |
|-------------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|--|
| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz |            |                 |            |         |           |                         |                   |                    |                 |             |  |
| BW (MHz)                                                    | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |  |
| 3                                                           | 26705      | 815.5           | QPSK       | 1       | 0         | 23.21                   | 19.96             | 22.11              | 50              | -30.04      |  |
|                                                             |            |                 |            | 1       | 14        | 23.11                   | 19.86             | 22.01              | 50              | -30.14      |  |
|                                                             |            |                 |            | 8       | 4         | 22.59                   | 19.34             | 21.49              | 50              | -30.66      |  |
|                                                             |            |                 |            | 15      | 0         | 22.37                   | 19.12             | 21.27              | 50              | -30.88      |  |
|                                                             | 26740      | 819             | QPSK       | 1       | 0         | 23.34                   | 20.09             | 22.24              | 50              | -29.91      |  |
|                                                             |            |                 |            | 1       | 14        | 23.28                   | 20.03             | 22.18              | 50              | -29.97      |  |
|                                                             |            |                 |            | 8       | 4         | 22.33                   | 19.08             | 21.23              | 50              | -30.92      |  |
|                                                             |            |                 |            | 15      | 0         | 22.37                   | 19.12             | 21.27              | 50              | -30.88      |  |
|                                                             | 26775      | 822.5           | QPSK       | 1       | 0         | 23.23                   | 19.98             | 22.13              | 50              | -30.02      |  |
|                                                             |            |                 |            | 1       | 14        | 23.25                   | 20.00             | 22.15              | 50              | -30.00      |  |
|                                                             |            |                 |            | 8       | 4         | 22.35                   | 19.10             | 21.25              | 50              | -30.90      |  |
|                                                             |            |                 |            | 15      | 0         | 22.35                   | 19.10             | 21.25              | 50              | -30.90      |  |
|                                                             | 26705      | 815.5           | 16QAM      | 1       | 0         | 22.15                   | 18.90             | 21.05              | 50              | -31.10      |  |
|                                                             |            |                 |            | 1       | 14        | 21.82                   | 18.57             | 20.72              | 50              | -31.43      |  |
|                                                             |            |                 |            | 8       | 4         | 20.86                   | 17.61             | 19.76              | 50              | -32.39      |  |
|                                                             |            |                 |            | 15      | 0         | 20.98                   | 17.73             | 19.88              | 50              | -32.27      |  |
|                                                             | 26740      | 819             | 16QAM      | 1       | 0         | 22.65                   | 19.40             | 21.55              | 50              | -30.60      |  |
|                                                             |            |                 |            | 1       | 14        | 22.14                   | 18.89             | 21.04              | 50              | -31.11      |  |
|                                                             |            |                 |            | 8       | 4         | 21.34                   | 18.09             | 20.24              | 50              | -31.91      |  |
|                                                             |            |                 |            | 15      | 0         | 21.39                   | 18.14             | 20.29              | 50              | -31.86      |  |
|                                                             | 26775      | 822.5           | 16QAM      | 1       | 0         | 22.12                   | 18.87             | 21.02              | 50              | -31.13      |  |
|                                                             |            |                 |            | 1       | 14        | 22.48                   | 19.23             | 21.38              | 50              | -30.77      |  |
|                                                             |            |                 |            | 8       | 4         | 21.43                   | 18.18             | 20.33              | 50              | -31.82      |  |
|                                                             |            |                 |            | 15      | 0         | 21.39                   | 18.14             | 20.29              | 50              | -31.86      |  |
|                                                             | 26705      | 815.5           | 64QAM      | 1       | 0         | 22.25                   | 19.00             | 21.15              | 50              | -31.00      |  |
|                                                             |            |                 |            | 1       | 14        | 21.76                   | 18.51             | 20.66              | 50              | -31.49      |  |
|                                                             |            |                 |            | 8       | 4         | 20.92                   | 17.67             | 19.82              | 50              | -32.33      |  |
|                                                             |            |                 |            | 15      | 0         | 20.92                   | 17.67             | 19.82              | 50              | -32.33      |  |
|                                                             | 26740      | 819             | 64QAM      | 1       | 0         | 21.32                   | 18.07             | 20.22              | 50              | -31.93      |  |
|                                                             |            |                 |            | 1       | 14        | 21.39                   | 18.14             | 20.29              | 50              | -31.86      |  |
|                                                             |            |                 |            | 8       | 4         | 20.27                   | 17.02             | 19.17              | 50              | -32.98      |  |
|                                                             |            |                 |            | 15      | 0         | 20.32                   | 17.07             | 19.22              | 50              | -32.93      |  |
|                                                             | 26775      | 822.5           | 64QAM      | 1       | 0         | 21.30                   | 18.05             | 20.20              | 50              | -31.95      |  |
|                                                             |            |                 |            | 1       | 14        | 21.26                   | 18.01             | 20.16              | 50              | -31.99      |  |
|                                                             |            |                 |            | 8       | 4         | 20.41                   | 17.16             | 19.31              | 50              | -32.84      |  |
|                                                             |            |                 |            | 15      | 0         | 20.46                   | 17.21             | 19.36              | 50              | -32.79      |  |
|                                                             | 26705      | 815.5           | 256QAM     | 1       | 0         | 19.12                   | 15.87             | 18.02              | 50              | -34.13      |  |
|                                                             |            |                 |            | 1       | 14        | 19.13                   | 15.88             | 18.03              | 50              | -34.12      |  |
|                                                             |            |                 |            | 8       | 4         | 18.11                   | 14.86             | 17.01              | 50              | -35.14      |  |
|                                                             |            |                 |            | 15      | 0         | 18.11                   | 14.86             | 17.01              | 50              | -35.14      |  |
|                                                             | 26740      | 819             | 256QAM     | 1       | 0         | 18.40                   | 15.15             | 17.30              | 50              | -34.85      |  |
|                                                             |            |                 |            | 1       | 14        | 18.40                   | 15.15             | 17.30              | 50              | -34.85      |  |
|                                                             |            |                 |            | 8       | 4         | 18.39                   | 15.14             | 17.29              | 50              | -34.86      |  |
|                                                             |            |                 |            | 15      | 0         | 18.42                   | 15.17             | 17.32              | 50              | -34.83      |  |
|                                                             | 26775      | 822.5           | 256QAM     | 1       | 0         | 18.44                   | 15.19             | 17.34              | 50              | -34.81      |  |
|                                                             |            |                 |            | 1       | 14        | 18.50                   | 15.25             | 17.40              | 50              | -34.75      |  |
|                                                             |            |                 |            | 8       | 4         | 18.43                   | 15.18             | 17.33              | 50              | -34.82      |  |
|                                                             |            |                 |            | 15      | 0         | 18.34                   | 15.09             | 17.24              | 50              | -34.91      |  |

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| Antenna gain (dBi)                                          |            | -1.1            |            |         |           |                         |                   |                    |                 |             |  |  |  |
|-------------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|--|--|--|
| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz |            |                 |            |         |           |                         |                   |                    |                 |             |  |  |  |
| BW (MHz)                                                    | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |  |  |  |
| 5                                                           | 26715      | 816.5           | QPSK       | 1       | 0         | 23.39                   | 20.14             | 22.29              | 50              | -29.86      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 23.25                   | 20.00             | 22.15              | 50              | -30.00      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 22.64                   | 19.39             | 21.54              | 50              | -30.61      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 22.56                   | 19.31             | 21.46              | 50              | -30.69      |  |  |  |
|                                                             | 26740      | 819             | QPSK       | 1       | 0         | 23.39                   | 20.14             | 22.29              | 50              | -29.86      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 23.29                   | 20.04             | 22.19              | 50              | -29.96      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 22.37                   | 19.12             | 21.27              | 50              | -30.88      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 22.39                   | 19.14             | 21.29              | 50              | -30.86      |  |  |  |
|                                                             | 26765      | 821.5           | QPSK       | 1       | 0         | 23.25                   | 20.00             | 22.15              | 50              | -30.00      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 23.20                   | 19.95             | 22.10              | 50              | -30.05      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 22.33                   | 19.08             | 21.23              | 50              | -30.92      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 22.40                   | 19.15             | 21.30              | 50              | -30.85      |  |  |  |
|                                                             | 26715      | 816.5           | 16QAM      | 1       | 0         | 22.28                   | 19.03             | 21.18              | 50              | -30.97      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 22.01                   | 18.76             | 20.91              | 50              | -31.24      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 20.98                   | 17.73             | 19.88              | 50              | -32.27      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 21.04                   | 17.79             | 19.94              | 50              | -32.21      |  |  |  |
|                                                             | 26740      | 819             | 16QAM      | 1       | 0         | 22.59                   | 19.34             | 21.49              | 50              | -30.66      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 22.36                   | 19.11             | 21.26              | 50              | -30.89      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 21.42                   | 18.17             | 20.32              | 50              | -31.83      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 21.34                   | 18.09             | 20.24              | 50              | -31.91      |  |  |  |
|                                                             | 26765      | 821.5           | 16QAM      | 1       | 0         | 22.39                   | 19.14             | 21.29              | 50              | -30.86      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 22.56                   | 19.31             | 21.46              | 50              | -30.69      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 21.33                   | 18.08             | 20.23              | 50              | -31.92      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 21.36                   | 18.11             | 20.26              | 50              | -31.89      |  |  |  |
|                                                             | 26715      | 816.5           | 64QAM      | 1       | 0         | 22.30                   | 19.05             | 21.20              | 50              | -30.95      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 21.92                   | 18.67             | 20.82              | 50              | -31.33      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 21.09                   | 17.84             | 19.99              | 50              | -32.16      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 21.01                   | 17.76             | 19.91              | 50              | -32.24      |  |  |  |
|                                                             | 26740      | 819             | 64QAM      | 1       | 0         | 21.00                   | 17.75             | 19.90              | 50              | -32.25      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 21.43                   | 18.18             | 20.33              | 50              | -31.82      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 20.22                   | 16.97             | 19.12              | 50              | -33.03      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 20.14                   | 16.89             | 19.04              | 50              | -33.11      |  |  |  |
|                                                             | 26765      | 821.5           | 64QAM      | 1       | 0         | 21.35                   | 18.10             | 20.25              | 50              | -31.90      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 21.15                   | 17.90             | 20.05              | 50              | -32.10      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 20.19                   | 16.94             | 19.09              | 50              | -33.06      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 20.27                   | 17.02             | 19.17              | 50              | -32.98      |  |  |  |
|                                                             | 26715      | 816.5           | 256QAM     | 1       | 0         | 19.23                   | 15.98             | 18.13              | 50              | -34.02      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 19.19                   | 15.94             | 18.09              | 50              | -34.06      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 18.25                   | 15.00             | 17.15              | 50              | -35.00      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 18.15                   | 14.90             | 17.05              | 50              | -35.10      |  |  |  |
|                                                             | 26740      | 819             | 256QAM     | 1       | 0         | 18.56                   | 15.31             | 17.46              | 50              | -34.69      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 18.43                   | 15.18             | 17.33              | 50              | -34.82      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 18.39                   | 15.14             | 17.29              | 50              | -34.86      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 18.36                   | 15.11             | 17.26              | 50              | -34.89      |  |  |  |
|                                                             | 26765      | 821.5           | 256QAM     | 1       | 0         | 18.40                   | 15.15             | 17.30              | 50              | -34.85      |  |  |  |
|                                                             |            |                 |            | 1       | 24        | 18.34                   | 15.09             | 17.24              | 50              | -34.91      |  |  |  |
|                                                             |            |                 |            | 12      | 6         | 18.40                   | 15.15             | 17.30              | 50              | -34.85      |  |  |  |
|                                                             |            |                 |            | 25      | 0         | 18.39                   | 15.14             | 17.29              | 50              | -34.86      |  |  |  |

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| Antenna gain (dBi)                                          |            | -1.1            |            |         |           |                         |                   |                    |                 |             |
|-------------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz |            |                 |            |         |           |                         |                   |                    |                 |             |
| BW (MHz)                                                    | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10                                                          | 26740      | 819             | QPSK       | 1       | 0         | 23.38                   | 20.13             | 22.28              | 50              | -29.87      |
|                                                             |            |                 |            | 1       | 49        | 23.30                   | 20.05             | 22.20              | 50              | -29.95      |
|                                                             |            |                 |            | 25      | 12        | 22.38                   | 19.13             | 21.28              | 50              | -30.87      |
|                                                             |            |                 |            | 50      | 0         | 22.44                   | 19.19             | 21.34              | 50              | -30.81      |
|                                                             | 26740      | 819             | 16QAM      | 1       | 0         | 22.63                   | 19.38             | 21.53              | 50              | -30.62      |
|                                                             |            |                 |            | 1       | 49        | 22.13                   | 18.88             | 21.03              | 50              | -31.12      |
|                                                             |            |                 |            | 25      | 12        | 21.37                   | 18.12             | 20.27              | 50              | -31.88      |
|                                                             |            |                 |            | 50      | 0         | 21.35                   | 18.10             | 20.25              | 50              | -31.90      |
|                                                             | 26740      | 819             | 64QAM      | 1       | 0         | 20.87                   | 17.62             | 19.77              | 50              | -32.38      |
|                                                             |            |                 |            | 1       | 49        | 20.90                   | 17.65             | 19.80              | 50              | -32.35      |
|                                                             |            |                 |            | 25      | 12        | 20.22                   | 16.97             | 19.12              | 50              | -33.03      |
|                                                             |            |                 |            | 50      | 0         | 20.03                   | 16.78             | 18.93              | 50              | -33.22      |
|                                                             | 26740      | 819             | 256QAM     | 1       | 0         | 18.45                   | 15.20             | 17.35              | 50              | -34.80      |
|                                                             |            |                 |            | 1       | 49        | 18.54                   | 15.29             | 17.44              | 50              | -34.71      |
|                                                             |            |                 |            | 25      | 12        | 18.41                   | 15.16             | 17.31              | 50              | -34.84      |
|                                                             |            |                 |            | 50      | 0         | 18.45                   | 15.20             | 17.35              | 50              | -34.80      |

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Antenna gain (dBi)

-2.7

LTE Band 30\_Uplink frequency band : 2305 to 2315 MHz

| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm/5MHz) | EIRP Average (dBm/5MHz) | EIRP Limit (dBm/5MHz) | Margin (dB) |
|----------|------------|-----------------|------------|---------|-----------|------------------------------|-------------------------|-----------------------|-------------|
| 5        | 27685      | 2307.5          | QPSK       | 1       | 0         | 23.29                        | 20.59                   | 24                    | -3.41       |
|          |            |                 |            | 1       | 24        | 23.47                        | 20.77                   | 24                    | -3.23       |
|          |            |                 |            | 12      | 6         | 22.47                        | 19.77                   | 24                    | -4.23       |
|          |            |                 |            | 25      | 0         | 22.48                        | 19.78                   | 24                    | -4.22       |
|          | 27710      | 2310            | QPSK       | 1       | 0         | 23.37                        | 20.67                   | 24                    | -3.33       |
|          |            |                 |            | 1       | 24        | 23.42                        | 20.72                   | 24                    | -3.28       |
|          |            |                 |            | 12      | 6         | 22.53                        | 19.83                   | 24                    | -4.17       |
|          |            |                 |            | 25      | 0         | 22.51                        | 19.81                   | 24                    | -4.19       |
|          | 27735      | 2312.5          | QPSK       | 1       | 0         | 23.24                        | 20.54                   | 24                    | -3.46       |
|          |            |                 |            | 1       | 24        | 23.36                        | 20.66                   | 24                    | -3.34       |
|          |            |                 |            | 12      | 6         | 22.49                        | 19.79                   | 24                    | -4.21       |
|          |            |                 |            | 25      | 0         | 22.54                        | 19.84                   | 24                    | -4.16       |
|          | 27685      | 2307.5          | 16QAM      | 1       | 0         | 22.49                        | 19.79                   | 24                    | -4.21       |
|          |            |                 |            | 1       | 24        | 22.47                        | 19.77                   | 24                    | -4.23       |
|          |            |                 |            | 12      | 6         | 21.46                        | 18.76                   | 24                    | -5.24       |
|          |            |                 |            | 25      | 0         | 21.49                        | 18.79                   | 24                    | -5.21       |
|          | 27710      | 2310            | 16QAM      | 1       | 0         | 22.46                        | 19.76                   | 24                    | -4.24       |
|          |            |                 |            | 1       | 24        | 22.48                        | 19.78                   | 24                    | -4.22       |
|          |            |                 |            | 12      | 6         | 21.51                        | 18.81                   | 24                    | -5.19       |
|          |            |                 |            | 25      | 0         | 21.54                        | 18.84                   | 24                    | -5.16       |
|          | 27735      | 2312.5          | 16QAM      | 1       | 0         | 22.50                        | 19.80                   | 24                    | -4.2        |
|          |            |                 |            | 1       | 24        | 22.49                        | 19.79                   | 24                    | -4.21       |
|          |            |                 |            | 12      | 6         | 21.56                        | 18.86                   | 24                    | -5.14       |
|          |            |                 |            | 25      | 0         | 21.55                        | 18.85                   | 24                    | -5.15       |
|          | 27685      | 2307.5          | 64QAM      | 1       | 0         | 21.49                        | 18.79                   | 24                    | -5.21       |
|          |            |                 |            | 1       | 24        | 21.44                        | 18.74                   | 24                    | -5.26       |
|          |            |                 |            | 12      | 6         | 21.49                        | 18.79                   | 24                    | -5.21       |
|          |            |                 |            | 25      | 0         | 21.42                        | 18.72                   | 24                    | -5.28       |
|          | 27710      | 2310            | 64QAM      | 1       | 0         | 21.44                        | 18.74                   | 24                    | -5.26       |
|          |            |                 |            | 1       | 24        | 21.50                        | 18.80                   | 24                    | -5.2        |
|          |            |                 |            | 12      | 6         | 20.57                        | 17.87                   | 24                    | -6.13       |
|          |            |                 |            | 25      | 0         | 20.55                        | 17.85                   | 24                    | -6.15       |
|          | 27735      | 2312.5          | 64QAM      | 1       | 0         | 21.50                        | 18.80                   | 24                    | -5.2        |
|          |            |                 |            | 1       | 24        | 21.49                        | 18.79                   | 24                    | -5.21       |
|          |            |                 |            | 12      | 6         | 20.56                        | 17.86                   | 24                    | -6.14       |
|          |            |                 |            | 25      | 0         | 20.49                        | 17.79                   | 24                    | -6.21       |
|          | 27685      | 2307.5          | 256QAM     | 1       | 0         | 18.39                        | 15.69                   | 24                    | -8.31       |
|          |            |                 |            | 1       | 24        | 18.29                        | 15.59                   | 24                    | -8.41       |
|          |            |                 |            | 12      | 6         | 17.35                        | 14.65                   | 24                    | -9.35       |
|          |            |                 |            | 25      | 0         | 17.21                        | 14.51                   | 24                    | -9.49       |
|          | 27710      | 2310            | 256QAM     | 1       | 0         | 18.39                        | 15.69                   | 24                    | -8.31       |
|          |            |                 |            | 1       | 24        | 18.23                        | 15.53                   | 24                    | -8.47       |
|          |            |                 |            | 12      | 6         | 17.31                        | 14.61                   | 24                    | -9.39       |
|          |            |                 |            | 25      | 0         | 18.22                        | 15.52                   | 24                    | -8.48       |
|          | 27735      | 2312.5          | 256QAM     | 1       | 0         | 18.27                        | 15.57                   | 24                    | -8.43       |
|          |            |                 |            | 1       | 24        | 18.37                        | 15.67                   | 24                    | -8.33       |
|          |            |                 |            | 12      | 6         | 17.30                        | 14.60                   | 24                    | -9.4        |
|          |            |                 |            | 25      | 0         | 17.26                        | 14.56                   | 24                    | -9.44       |

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| Antenna gain (dBi)                                   |            | -2.7            |            |         |           |                              |                         |                       |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|------------------------------|-------------------------|-----------------------|-------------|
| LTE Band 30_Uplink frequency band : 2305 to 2315 MHz |            |                 |            |         |           |                              |                         |                       |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm/5MHz) | EIRP Average (dBm/5MHz) | EIRP Limit (dBm/5MHz) | Margin (dB) |
| 10                                                   | 27710      | 2310            | QPSK       | 1       | 0         | 23.31                        | 20.61                   | 24                    | -3.39       |
|                                                      |            |                 |            | 1       | 49        | 23.35                        | 20.65                   | 24                    | -3.35       |
|                                                      |            |                 |            | 25      | 12        | 22.49                        | 19.79                   | 24                    | -4.21       |
|                                                      |            |                 |            | 50      | 0         | 22.50                        | 19.80                   | 24                    | -4.2        |
|                                                      | 27710      | 2310            | 16QAM      | 1       | 0         | 22.49                        | 19.79                   | 24                    | -4.21       |
|                                                      |            |                 |            | 1       | 49        | 22.44                        | 19.74                   | 24                    | -4.26       |
|                                                      |            |                 |            | 25      | 12        | 21.62                        | 18.92                   | 24                    | -5.08       |
|                                                      |            |                 |            | 50      | 0         | 21.39                        | 18.69                   | 24                    | -5.31       |
|                                                      | 27710      | 2310            | 64QAM      | 1       | 0         | 21.49                        | 18.79                   | 24                    | -5.21       |
|                                                      |            |                 |            | 1       | 49        | 21.47                        | 18.77                   | 24                    | -5.23       |
|                                                      |            |                 |            | 25      | 12        | 20.51                        | 17.81                   | 24                    | -6.19       |
|                                                      |            |                 |            | 50      | 0         | 20.55                        | 17.85                   | 24                    | -6.15       |
|                                                      | 27710      | 2310            | 256QAM     | 1       | 0         | 18.34                        | 15.64                   | 24                    | -8.36       |
|                                                      |            |                 |            | 1       | 49        | 18.25                        | 15.55                   | 24                    | -8.45       |
|                                                      |            |                 |            | 25      | 12        | 17.55                        | 14.85                   | 24                    | -9.15       |
|                                                      |            |                 |            | 50      | 0         | 17.45                        | 14.75                   | 24                    | -9.25       |

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| Antenna gain (dBi)                                   |               | -2.3               |            |            |              |                               |                          |                        |                |
|------------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| LTE Band 38_Uplink frequency band : 2570 to 2620 MHz |               |                    |            |            |              |                               |                          |                        |                |
| BW<br>(MHz)                                          | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 5                                                    | 37775         | 2572.5             | QPSK       | 1          | 0            | 23.38                         | 21.08                    | 33                     | -11.92         |
|                                                      |               |                    |            | 1          | 24           | 23.26                         | 20.96                    | 33                     | -12.04         |
|                                                      |               |                    |            | 12         | 6            | 22.25                         | 19.95                    | 33                     | -13.05         |
|                                                      |               |                    |            | 25         | 0            | 22.30                         | 20.00                    | 33                     | -13            |
|                                                      | 38000         | 2595               | QPSK       | 1          | 0            | 23.26                         | 20.96                    | 33                     | -12.04         |
|                                                      |               |                    |            | 1          | 24           | 23.32                         | 21.02                    | 33                     | -11.98         |
|                                                      |               |                    |            | 12         | 6            | 22.34                         | 20.04                    | 33                     | -12.96         |
|                                                      |               |                    |            | 25         | 0            | 22.45                         | 20.15                    | 33                     | -12.85         |
|                                                      | 38225         | 2617.5             | QPSK       | 1          | 0            | 23.69                         | 21.39                    | 33                     | -11.61         |
|                                                      |               |                    |            | 1          | 24           | 23.18                         | 20.88                    | 33                     | -12.12         |
|                                                      |               |                    |            | 12         | 6            | 22.13                         | 19.83                    | 33                     | -13.17         |
|                                                      |               |                    |            | 25         | 0            | 22.27                         | 19.97                    | 33                     | -13.03         |
|                                                      | 37775         | 2572.5             | 16QAM      | 1          | 0            | 22.45                         | 20.15                    | 33                     | -12.85         |
|                                                      |               |                    |            | 1          | 24           | 22.67                         | 20.37                    | 33                     | -12.63         |
|                                                      |               |                    |            | 12         | 6            | 21.78                         | 19.48                    | 33                     | -13.52         |
|                                                      |               |                    |            | 25         | 0            | 21.60                         | 19.30                    | 33                     | -13.7          |
|                                                      | 38000         | 2595               | 16QAM      | 1          | 0            | 22.55                         | 20.25                    | 33                     | -12.75         |
|                                                      |               |                    |            | 1          | 24           | 22.59                         | 20.29                    | 33                     | -12.71         |
|                                                      |               |                    |            | 12         | 6            | 21.51                         | 19.21                    | 33                     | -13.79         |
|                                                      |               |                    |            | 25         | 0            | 21.68                         | 19.38                    | 33                     | -13.62         |
|                                                      | 38225         | 2617.5             | 16QAM      | 1          | 0            | 22.41                         | 20.11                    | 33                     | -12.89         |
|                                                      |               |                    |            | 1          | 24           | 22.54                         | 20.24                    | 33                     | -12.76         |
|                                                      |               |                    |            | 12         | 6            | 21.55                         | 19.25                    | 33                     | -13.75         |
|                                                      |               |                    |            | 25         | 0            | 21.65                         | 19.35                    | 33                     | -13.65         |
|                                                      | 37775         | 2572.5             | 64QAM      | 1          | 0            | 22.50                         | 20.20                    | 33                     | -12.8          |
|                                                      |               |                    |            | 1          | 24           | 22.46                         | 20.16                    | 33                     | -12.84         |
|                                                      |               |                    |            | 12         | 6            | 21.56                         | 19.26                    | 33                     | -13.74         |
|                                                      |               |                    |            | 25         | 0            | 21.83                         | 19.53                    | 33                     | -13.47         |
|                                                      | 38000         | 2595               | 64QAM      | 1          | 0            | 22.49                         | 20.19                    | 33                     | -12.81         |
|                                                      |               |                    |            | 1          | 24           | 22.45                         | 20.15                    | 33                     | -12.85         |
|                                                      |               |                    |            | 12         | 6            | 21.66                         | 19.36                    | 33                     | -13.64         |
|                                                      |               |                    |            | 25         | 0            | 21.71                         | 19.41                    | 33                     | -13.59         |
|                                                      | 38225         | 2617.5             | 64QAM      | 1          | 0            | 22.48                         | 20.18                    | 33                     | -12.82         |
|                                                      |               |                    |            | 1          | 24           | 22.29                         | 19.99                    | 33                     | -13.01         |
|                                                      |               |                    |            | 12         | 6            | 21.81                         | 19.51                    | 33                     | -13.49         |
|                                                      |               |                    |            | 25         | 0            | 21.48                         | 19.18                    | 33                     | -13.82         |
|                                                      | 37775         | 2572.5             | 256QAM     | 1          | 0            | 19.31                         | 17.01                    | 33                     | -15.99         |
|                                                      |               |                    |            | 1          | 24           | 19.20                         | 16.90                    | 33                     | -16.1          |
|                                                      |               |                    |            | 12         | 6            | 17.95                         | 15.65                    | 33                     | -17.35         |
|                                                      |               |                    |            | 25         | 0            | 18.25                         | 15.95                    | 33                     | -17.05         |
|                                                      | 38000         | 2595               | 256QAM     | 1          | 0            | 19.26                         | 16.96                    | 33                     | -16.04         |
|                                                      |               |                    |            | 1          | 24           | 19.09                         | 16.79                    | 33                     | -16.21         |
|                                                      |               |                    |            | 12         | 6            | 18.13                         | 15.83                    | 33                     | -17.17         |
|                                                      |               |                    |            | 25         | 0            | 18.31                         | 16.01                    | 33                     | -16.99         |
|                                                      | 38225         | 2617.5             | 256QAM     | 1          | 0            | 19.28                         | 16.98                    | 33                     | -16.02         |
|                                                      |               |                    |            | 1          | 24           | 19.14                         | 16.84                    | 33                     | -16.16         |
|                                                      |               |                    |            | 12         | 6            | 18.13                         | 15.83                    | 33                     | -17.17         |
|                                                      |               |                    |            | 25         | 0            | 18.38                         | 16.08                    | 33                     | -16.92         |

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| Antenna gain (dBi)                                   |            | -2.3            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 38_Uplink frequency band : 2570 to 2620 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                   | 37800      | 2575            | QPSK       | 1       | 0         | 23.56                   | 21.26              | 33               | -11.74      |
|                                                      |            |                 |            | 1       | 49        | 23.41                   | 21.11              | 33               | -11.89      |
|                                                      |            |                 |            | 25      | 12        | 22.41                   | 20.11              | 33               | -12.89      |
|                                                      |            |                 |            | 50      | 0         | 22.34                   | 20.04              | 33               | -12.96      |
|                                                      | 38000      | 2595            | QPSK       | 1       | 0         | 23.43                   | 21.13              | 33               | -11.87      |
|                                                      |            |                 |            | 1       | 49        | 23.40                   | 21.10              | 33               | -11.9       |
|                                                      |            |                 |            | 25      | 12        | 22.47                   | 20.17              | 33               | -12.83      |
|                                                      |            |                 |            | 50      | 0         | 22.46                   | 20.16              | 33               | -12.84      |
|                                                      | 38200      | 2615            | QPSK       | 1       | 0         | 23.71                   | 21.41              | 33               | -11.59      |
|                                                      |            |                 |            | 1       | 49        | 23.25                   | 20.95              | 33               | -12.05      |
|                                                      |            |                 |            | 25      | 12        | 22.28                   | 19.98              | 33               | -13.02      |
|                                                      |            |                 |            | 50      | 0         | 22.44                   | 20.14              | 33               | -12.86      |
|                                                      | 37800      | 2575            | 16QAM      | 1       | 0         | 22.46                   | 20.16              | 33               | -12.84      |
|                                                      |            |                 |            | 1       | 49        | 22.67                   | 20.37              | 33               | -12.63      |
|                                                      |            |                 |            | 25      | 12        | 21.79                   | 19.49              | 33               | -13.51      |
|                                                      |            |                 |            | 50      | 0         | 21.67                   | 19.37              | 33               | -13.63      |
|                                                      | 38000      | 2595            | 16QAM      | 1       | 0         | 22.66                   | 20.36              | 33               | -12.64      |
|                                                      |            |                 |            | 1       | 49        | 22.59                   | 20.29              | 33               | -12.71      |
|                                                      |            |                 |            | 25      | 12        | 21.63                   | 19.33              | 33               | -13.67      |
|                                                      |            |                 |            | 50      | 0         | 21.80                   | 19.50              | 33               | -13.5       |
|                                                      | 38200      | 2615            | 16QAM      | 1       | 0         | 22.55                   | 20.25              | 33               | -12.75      |
|                                                      |            |                 |            | 1       | 49        | 22.71                   | 20.41              | 33               | -12.59      |
|                                                      |            |                 |            | 25      | 12        | 21.72                   | 19.42              | 33               | -13.58      |
|                                                      |            |                 |            | 50      | 0         | 21.69                   | 19.39              | 33               | -13.61      |
|                                                      | 37800      | 2575            | 64QAM      | 1       | 0         | 22.49                   | 20.19              | 33               | -12.81      |
|                                                      |            |                 |            | 1       | 49        | 22.47                   | 20.17              | 33               | -12.83      |
|                                                      |            |                 |            | 25      | 12        | 21.73                   | 19.43              | 33               | -13.57      |
|                                                      |            |                 |            | 50      | 0         | 21.83                   | 19.53              | 33               | -13.47      |
|                                                      | 38000      | 2595            | 64QAM      | 1       | 0         | 22.48                   | 20.18              | 33               | -12.82      |
|                                                      |            |                 |            | 1       | 49        | 22.44                   | 20.14              | 33               | -12.86      |
|                                                      |            |                 |            | 25      | 12        | 21.77                   | 19.47              | 33               | -13.53      |
|                                                      |            |                 |            | 50      | 0         | 21.75                   | 19.45              | 33               | -13.55      |
|                                                      | 38200      | 2615            | 64QAM      | 1       | 0         | 22.40                   | 20.10              | 33               | -12.9       |
|                                                      |            |                 |            | 1       | 49        | 22.43                   | 20.13              | 33               | -12.87      |
|                                                      |            |                 |            | 25      | 12        | 21.88                   | 19.58              | 33               | -13.42      |
|                                                      |            |                 |            | 50      | 0         | 21.59                   | 19.29              | 33               | -13.71      |
|                                                      | 37800      | 2575            | 256QAM     | 1       | 0         | 19.38                   | 17.08              | 33               | -15.92      |
|                                                      |            |                 |            | 1       | 49        | 19.32                   | 17.02              | 33               | -15.98      |
|                                                      |            |                 |            | 25      | 12        | 18.11                   | 15.81              | 33               | -17.19      |
|                                                      |            |                 |            | 50      | 0         | 18.34                   | 16.04              | 33               | -16.96      |
|                                                      | 38000      | 2595            | 256QAM     | 1       | 0         | 19.34                   | 17.04              | 33               | -15.96      |
|                                                      |            |                 |            | 1       | 49        | 19.21                   | 16.91              | 33               | -16.09      |
|                                                      |            |                 |            | 25      | 12        | 18.32                   | 16.02              | 33               | -16.98      |
|                                                      |            |                 |            | 50      | 0         | 18.38                   | 16.08              | 33               | -16.92      |
|                                                      | 38200      | 2615            | 256QAM     | 1       | 0         | 19.38                   | 17.08              | 33               | -15.92      |
|                                                      |            |                 |            | 1       | 49        | 19.23                   | 16.93              | 33               | -16.07      |
|                                                      |            |                 |            | 25      | 12        | 18.26                   | 15.96              | 33               | -17.04      |
|                                                      |            |                 |            | 50      | 0         | 18.43                   | 16.13              | 33               | -16.87      |

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| Antenna gain (dBi)                                   |            | -2.3            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 38_Uplink frequency band : 2570 to 2620 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                   | 37825      | 2577.5          | QPSK       | 1       | 0         | 23.68                   | 21.38              | 33               | -11.62      |
|                                                      |            |                 |            | 1       | 74        | 23.59                   | 21.29              | 33               | -11.71      |
|                                                      |            |                 |            | 36      | 19        | 22.60                   | 20.30              | 33               | -12.7       |
|                                                      |            |                 |            | 75      | 0         | 22.50                   | 20.20              | 33               | -12.8       |
|                                                      | 38000      | 2595            | QPSK       | 1       | 0         | 23.52                   | 21.22              | 33               | -11.78      |
|                                                      |            |                 |            | 1       | 74        | 23.47                   | 21.17              | 33               | -11.83      |
|                                                      |            |                 |            | 36      | 19        | 22.58                   | 20.28              | 33               | -12.72      |
|                                                      |            |                 |            | 75      | 0         | 22.53                   | 20.23              | 33               | -12.77      |
|                                                      | 38175      | 2612.5          | QPSK       | 1       | 0         | 23.71                   | 21.41              | 33               | -11.59      |
|                                                      |            |                 |            | 1       | 74        | 23.40                   | 21.10              | 33               | -11.9       |
|                                                      |            |                 |            | 36      | 19        | 22.39                   | 20.09              | 33               | -12.91      |
|                                                      |            |                 |            | 75      | 0         | 22.49                   | 20.19              | 33               | -12.81      |
|                                                      | 37825      | 2577.5          | 16QAM      | 1       | 0         | 22.63                   | 20.33              | 33               | -12.67      |
|                                                      |            |                 |            | 1       | 74        | 22.76                   | 20.46              | 33               | -12.54      |
|                                                      |            |                 |            | 36      | 19        | 21.88                   | 19.58              | 33               | -13.42      |
|                                                      |            |                 |            | 75      | 0         | 21.73                   | 19.43              | 33               | -13.57      |
|                                                      | 38000      | 2595            | 16QAM      | 1       | 0         | 22.73                   | 20.43              | 33               | -12.57      |
|                                                      |            |                 |            | 1       | 74        | 22.70                   | 20.40              | 33               | -12.6       |
|                                                      |            |                 |            | 36      | 19        | 21.81                   | 19.51              | 33               | -13.49      |
|                                                      |            |                 |            | 75      | 0         | 21.84                   | 19.54              | 33               | -13.46      |
|                                                      | 38175      | 2612.5          | 16QAM      | 1       | 0         | 22.65                   | 20.35              | 33               | -12.65      |
|                                                      |            |                 |            | 1       | 74        | 22.72                   | 20.42              | 33               | -12.58      |
|                                                      |            |                 |            | 36      | 19        | 21.81                   | 19.51              | 33               | -13.49      |
|                                                      |            |                 |            | 75      | 0         | 21.83                   | 19.53              | 33               | -13.47      |
|                                                      | 37825      | 2577.5          | 64QAM      | 1       | 0         | 22.46                   | 20.16              | 33               | -12.84      |
|                                                      |            |                 |            | 1       | 74        | 22.45                   | 20.15              | 33               | -12.85      |
|                                                      |            |                 |            | 36      | 19        | 21.79                   | 19.49              | 33               | -13.51      |
|                                                      |            |                 |            | 75      | 0         | 21.97                   | 19.67              | 33               | -13.33      |
|                                                      | 38000      | 2595            | 64QAM      | 1       | 0         | 22.47                   | 20.17              | 33               | -12.83      |
|                                                      |            |                 |            | 1       | 74        | 22.46                   | 20.16              | 33               | -12.84      |
|                                                      |            |                 |            | 36      | 19        | 21.80                   | 19.50              | 33               | -13.5       |
|                                                      |            |                 |            | 75      | 0         | 21.82                   | 19.52              | 33               | -13.48      |
|                                                      | 38175      | 2612.5          | 64QAM      | 1       | 0         | 22.49                   | 20.19              | 33               | -12.81      |
|                                                      |            |                 |            | 1       | 74        | 22.43                   | 20.13              | 33               | -12.87      |
|                                                      |            |                 |            | 36      | 19        | 21.94                   | 19.64              | 33               | -13.36      |
|                                                      |            |                 |            | 75      | 0         | 21.75                   | 19.45              | 33               | -13.55      |
|                                                      | 37825      | 2577.5          | 256QAM     | 1       | 0         | 19.40                   | 17.10              | 33               | -15.9       |
|                                                      |            |                 |            | 1       | 74        | 19.44                   | 17.14              | 33               | -15.86      |
|                                                      |            |                 |            | 36      | 19        | 18.23                   | 15.93              | 33               | -17.07      |
|                                                      |            |                 |            | 75      | 0         | 18.45                   | 16.15              | 33               | -16.85      |
|                                                      | 38000      | 2595            | 256QAM     | 1       | 0         | 19.49                   | 17.19              | 33               | -15.81      |
|                                                      |            |                 |            | 1       | 74        | 19.40                   | 17.10              | 33               | -15.9       |
|                                                      |            |                 |            | 36      | 19        | 18.42                   | 16.12              | 33               | -16.88      |
|                                                      |            |                 |            | 75      | 0         | 18.40                   | 16.10              | 33               | -16.9       |
|                                                      | 38175      | 2612.5          | 256QAM     | 1       | 0         | 19.49                   | 17.19              | 33               | -15.81      |
|                                                      |            |                 |            | 1       | 74        | 19.36                   | 17.06              | 33               | -15.94      |
|                                                      |            |                 |            | 36      | 19        | 18.29                   | 15.99              | 33               | -17.01      |
|                                                      |            |                 |            | 75      | 0         | 18.45                   | 16.15              | 33               | -16.85      |

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| Antenna gain (dBi)                                   |            | -2.3            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 38_Uplink frequency band : 2570 to 2620 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                   | 37850      | 2580            | QPSK       | 1       | 0         | 23.71                   | 21.41              | 33               | -11.59      |
|                                                      |            |                 |            | 1       | 99        | 23.59                   | 21.29              | 33               | -11.71      |
|                                                      |            |                 |            | 50      | 25        | 22.71                   | 20.41              | 33               | -12.59      |
|                                                      |            |                 |            | 100     | 0         | 22.67                   | 20.37              | 33               | -12.63      |
|                                                      | 38000      | 2595            | QPSK       | 1       | 0         | 23.66                   | 21.36              | 33               | -11.64      |
|                                                      |            |                 |            | 1       | 99        | 23.52                   | 21.22              | 33               | -11.78      |
|                                                      |            |                 |            | 50      | 25        | 22.64                   | 20.34              | 33               | -12.66      |
|                                                      |            |                 |            | 100     | 0         | 22.64                   | 20.34              | 33               | -12.66      |
|                                                      | 38150      | 2610            | QPSK       | 1       | 0         | 23.69                   | 21.39              | 33               | -11.61      |
|                                                      |            |                 |            | 1       | 99        | 23.53                   | 21.23              | 33               | -11.77      |
|                                                      |            |                 |            | 50      | 25        | 22.53                   | 20.23              | 33               | -12.77      |
|                                                      |            |                 |            | 100     | 0         | 22.62                   | 20.32              | 33               | -12.68      |
|                                                      | 37850      | 2580            | 16QAM      | 1       | 0         | 22.81                   | 20.51              | 33               | -12.49      |
|                                                      |            |                 |            | 1       | 99        | 22.79                   | 20.49              | 33               | -12.51      |
|                                                      |            |                 |            | 50      | 25        | 21.91                   | 19.61              | 33               | -13.39      |
|                                                      |            |                 |            | 100     | 0         | 21.83                   | 19.53              | 33               | -13.47      |
|                                                      | 38000      | 2595            | 16QAM      | 1       | 0         | 22.80                   | 20.50              | 33               | -12.5       |
|                                                      |            |                 |            | 1       | 99        | 22.83                   | 20.53              | 33               | -12.47      |
|                                                      |            |                 |            | 50      | 25        | 21.84                   | 19.54              | 33               | -13.46      |
|                                                      |            |                 |            | 100     | 0         | 21.95                   | 19.65              | 33               | -13.35      |
|                                                      | 38150      | 2610            | 16QAM      | 1       | 0         | 22.77                   | 20.47              | 33               | -12.53      |
|                                                      |            |                 |            | 1       | 99        | 22.72                   | 20.42              | 33               | -12.58      |
|                                                      |            |                 |            | 50      | 25        | 21.86                   | 19.56              | 33               | -13.44      |
|                                                      |            |                 |            | 100     | 0         | 21.83                   | 19.53              | 33               | -13.47      |
|                                                      | 37850      | 2580            | 64QAM      | 1       | 0         | 22.48                   | 20.18              | 33               | -12.82      |
|                                                      |            |                 |            | 1       | 99        | 22.45                   | 20.15              | 33               | -12.85      |
|                                                      |            |                 |            | 50      | 25        | 21.90                   | 19.60              | 33               | -13.4       |
|                                                      |            |                 |            | 100     | 0         | 21.97                   | 19.67              | 33               | -13.33      |
|                                                      | 38000      | 2595            | 64QAM      | 1       | 0         | 22.46                   | 20.16              | 33               | -12.84      |
|                                                      |            |                 |            | 1       | 99        | 22.43                   | 20.13              | 33               | -12.87      |
|                                                      |            |                 |            | 50      | 25        | 21.81                   | 19.51              | 33               | -13.49      |
|                                                      |            |                 |            | 100     | 0         | 21.86                   | 19.56              | 33               | -13.44      |
|                                                      | 38150      | 2610            | 64QAM      | 1       | 0         | 22.47                   | 20.17              | 33               | -12.83      |
|                                                      |            |                 |            | 1       | 99        | 22.48                   | 20.18              | 33               | -12.82      |
|                                                      |            |                 |            | 50      | 25        | 21.98                   | 19.68              | 33               | -13.32      |
|                                                      |            |                 |            | 100     | 0         | 21.87                   | 19.57              | 33               | -13.43      |
|                                                      | 37850      | 2580            | 256QAM     | 1       | 0         | 19.47                   | 17.17              | 33               | -15.83      |
|                                                      |            |                 |            | 1       | 99        | 19.49                   | 17.19              | 33               | -15.81      |
|                                                      |            |                 |            | 50      | 25        | 18.41                   | 16.11              | 33               | -16.89      |
|                                                      |            |                 |            | 100     | 0         | 18.53                   | 16.23              | 33               | -16.77      |
|                                                      | 38000      | 2595            | 256QAM     | 1       | 0         | 19.50                   | 17.20              | 33               | -15.8       |
|                                                      |            |                 |            | 1       | 99        | 19.46                   | 17.16              | 33               | -15.84      |
|                                                      |            |                 |            | 50      | 25        | 18.57                   | 16.27              | 33               | -16.73      |
|                                                      |            |                 |            | 100     | 0         | 18.45                   | 16.15              | 33               | -16.85      |
|                                                      | 38150      | 2610            | 256QAM     | 1       | 0         | 19.47                   | 17.17              | 33               | -15.83      |
|                                                      |            |                 |            | 1       | 99        | 19.43                   | 17.13              | 33               | -15.87      |
|                                                      |            |                 |            | 50      | 25        | 18.48                   | 16.18              | 33               | -16.82      |
|                                                      |            |                 |            | 100     | 0         | 18.45                   | 16.15              | 33               | -16.85      |

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Antenna gain (dBi)

-3

LTE Band 41\_Uplink frequency band : 2496 to 2690 MHz

| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
|----------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| 5        | 39675      | 2498.5          | QPSK       | 1       | 0         | 23.49                   | 20.49              | 33               | -12.51      |
|          |            |                 |            | 1       | 24        | 23.18                   | 20.18              | 33               | -12.82      |
|          |            |                 |            | 12      | 6         | 22.20                   | 19.20              | 33               | -13.8       |
|          |            |                 |            | 25      | 0         | 22.52                   | 19.52              | 33               | -13.48      |
|          | 40620      | 2593            | QPSK       | 1       | 0         | 23.18                   | 20.18              | 33               | -12.82      |
|          |            |                 |            | 1       | 24        | 23.22                   | 20.22              | 33               | -12.78      |
|          |            |                 |            | 12      | 6         | 22.12                   | 19.12              | 33               | -13.88      |
|          |            |                 |            | 25      | 0         | 22.33                   | 19.33              | 33               | -13.67      |
|          | 41565      | 2687.5          | QPSK       | 1       | 0         | 23.59                   | 20.59              | 33               | -12.41      |
|          |            |                 |            | 1       | 24        | 23.38                   | 20.38              | 33               | -12.62      |
|          |            |                 |            | 12      | 6         | 22.24                   | 19.24              | 33               | -13.76      |
|          |            |                 |            | 25      | 0         | 22.37                   | 19.37              | 33               | -13.63      |
|          | 39675      | 2498.5          | 16QAM      | 1       | 0         | 22.50                   | 19.50              | 33               | -13.5       |
|          |            |                 |            | 1       | 24        | 22.30                   | 19.30              | 33               | -13.7       |
|          |            |                 |            | 12      | 6         | 21.73                   | 18.73              | 33               | -14.27      |
|          |            |                 |            | 25      | 0         | 21.79                   | 18.79              | 33               | -14.21      |
|          | 40620      | 2593            | 16QAM      | 1       | 0         | 22.43                   | 19.43              | 33               | -13.57      |
|          |            |                 |            | 1       | 24        | 22.28                   | 19.28              | 33               | -13.72      |
|          |            |                 |            | 12      | 6         | 21.68                   | 18.68              | 33               | -14.32      |
|          |            |                 |            | 25      | 0         | 21.73                   | 18.73              | 33               | -14.27      |
|          | 41565      | 2687.5          | 16QAM      | 1       | 0         | 22.43                   | 19.43              | 33               | -13.57      |
|          |            |                 |            | 1       | 24        | 22.46                   | 19.46              | 33               | -13.54      |
|          |            |                 |            | 12      | 6         | 21.66                   | 18.66              | 33               | -14.34      |
|          |            |                 |            | 25      | 0         | 21.86                   | 18.86              | 33               | -14.14      |
|          | 39675      | 2498.5          | 64QAM      | 1       | 0         | 22.44                   | 19.44              | 33               | -13.56      |
|          |            |                 |            | 1       | 24        | 22.41                   | 19.41              | 33               | -13.59      |
|          |            |                 |            | 12      | 6         | 21.39                   | 18.39              | 33               | -14.61      |
|          |            |                 |            | 25      | 0         | 21.23                   | 18.23              | 33               | -14.77      |
|          | 40620      | 2593            | 64QAM      | 1       | 0         | 22.48                   | 19.48              | 33               | -13.52      |
|          |            |                 |            | 1       | 24        | 22.30                   | 19.30              | 33               | -13.7       |
|          |            |                 |            | 12      | 6         | 21.53                   | 18.53              | 33               | -14.47      |
|          |            |                 |            | 25      | 0         | 21.66                   | 18.66              | 33               | -14.34      |
|          | 41565      | 2687.5          | 64QAM      | 1       | 0         | 22.32                   | 19.32              | 33               | -13.68      |
|          |            |                 |            | 1       | 24        | 22.46                   | 19.46              | 33               | -13.54      |
|          |            |                 |            | 12      | 6         | 21.55                   | 18.55              | 33               | -14.45      |
|          |            |                 |            | 25      | 0         | 21.40                   | 18.40              | 33               | -14.6       |
|          | 39675      | 2498.5          | 256QAM     | 1       | 0         | 19.44                   | 16.44              | 33               | -16.56      |
|          |            |                 |            | 1       | 24        | 19.48                   | 16.48              | 33               | -16.52      |
|          |            |                 |            | 12      | 6         | 18.55                   | 15.55              | 33               | -17.45      |
|          |            |                 |            | 25      | 0         | 18.87                   | 15.87              | 33               | -17.13      |
|          | 40620      | 2593            | 256QAM     | 1       | 0         | 19.44                   | 16.44              | 33               | -16.56      |
|          |            |                 |            | 1       | 24        | 19.48                   | 16.48              | 33               | -16.52      |
|          |            |                 |            | 12      | 6         | 18.61                   | 15.61              | 33               | -17.39      |
|          |            |                 |            | 25      | 0         | 18.64                   | 15.64              | 33               | -17.36      |
|          | 41565      | 2687.5          | 256QAM     | 1       | 0         | 19.24                   | 16.24              | 33               | -16.76      |
|          |            |                 |            | 1       | 24        | 19.46                   | 16.46              | 33               | -16.54      |
|          |            |                 |            | 12      | 6         | 18.64                   | 15.64              | 33               | -17.36      |
|          |            |                 |            | 25      | 0         | 18.52                   | 15.52              | 33               | -17.48      |

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| Antenna gain (dBi)                                   |            | -3              |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 41 Uplink frequency band : 2496 to 2690 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                   | 39700      | 2501            | QPSK       | 1       | 0         | 23.49                   | 20.49              | 33               | -12.51      |
|                                                      |            |                 |            | 1       | 49        | 23.24                   | 20.24              | 33               | -12.76      |
|                                                      |            |                 |            | 25      | 12        | 22.38                   | 19.38              | 33               | -13.62      |
|                                                      |            |                 |            | 50      | 0         | 22.55                   | 19.55              | 33               | -13.45      |
|                                                      | 40620      | 2593            | QPSK       | 1       | 0         | 23.33                   | 20.33              | 33               | -12.67      |
|                                                      |            |                 |            | 1       | 49        | 23.37                   | 20.37              | 33               | -12.63      |
|                                                      |            |                 |            | 25      | 12        | 22.24                   | 19.24              | 33               | -13.76      |
|                                                      |            |                 |            | 50      | 0         | 22.39                   | 19.39              | 33               | -13.61      |
|                                                      | 41540      | 2685            | QPSK       | 1       | 0         | 23.59                   | 20.59              | 33               | -12.41      |
|                                                      |            |                 |            | 1       | 49        | 23.40                   | 20.40              | 33               | -12.6       |
|                                                      |            |                 |            | 25      | 12        | 22.32                   | 19.32              | 33               | -13.68      |
|                                                      |            |                 |            | 50      | 0         | 22.45                   | 19.45              | 33               | -13.55      |
|                                                      | 39700      | 2501            | 16QAM      | 1       | 0         | 22.44                   | 19.44              | 33               | -13.56      |
|                                                      |            |                 |            | 1       | 49        | 22.32                   | 19.32              | 33               | -13.68      |
|                                                      |            |                 |            | 25      | 12        | 21.82                   | 18.82              | 33               | -14.18      |
|                                                      |            |                 |            | 50      | 0         | 21.93                   | 18.93              | 33               | -14.07      |
|                                                      | 40620      | 2593            | 16QAM      | 1       | 0         | 22.53                   | 19.53              | 33               | -13.47      |
|                                                      |            |                 |            | 1       | 49        | 22.27                   | 19.27              | 33               | -13.73      |
|                                                      |            |                 |            | 25      | 12        | 21.78                   | 18.78              | 33               | -14.22      |
|                                                      |            |                 |            | 50      | 0         | 21.86                   | 18.86              | 33               | -14.14      |
|                                                      | 41540      | 2685            | 16QAM      | 1       | 0         | 22.60                   | 19.60              | 33               | -13.4       |
|                                                      |            |                 |            | 1       | 49        | 22.37                   | 19.37              | 33               | -13.63      |
|                                                      |            |                 |            | 25      | 12        | 21.77                   | 18.77              | 33               | -14.23      |
|                                                      |            |                 |            | 50      | 0         | 21.87                   | 18.87              | 33               | -14.13      |
|                                                      | 39700      | 2501            | 64QAM      | 1       | 0         | 22.48                   | 19.48              | 33               | -13.52      |
|                                                      |            |                 |            | 1       | 49        | 22.46                   | 19.46              | 33               | -13.54      |
|                                                      |            |                 |            | 25      | 12        | 21.55                   | 18.55              | 33               | -14.45      |
|                                                      |            |                 |            | 50      | 0         | 21.42                   | 18.42              | 33               | -14.58      |
|                                                      | 40620      | 2593            | 64QAM      | 1       | 0         | 22.49                   | 19.49              | 33               | -13.51      |
|                                                      |            |                 |            | 1       | 49        | 22.38                   | 19.38              | 33               | -13.62      |
|                                                      |            |                 |            | 25      | 12        | 21.65                   | 18.65              | 33               | -14.35      |
|                                                      |            |                 |            | 50      | 0         | 21.72                   | 18.72              | 33               | -14.28      |
|                                                      | 41540      | 2685            | 64QAM      | 1       | 0         | 22.48                   | 19.48              | 33               | -13.52      |
|                                                      |            |                 |            | 1       | 49        | 22.49                   | 19.49              | 33               | -13.51      |
|                                                      |            |                 |            | 25      | 12        | 21.58                   | 18.58              | 33               | -14.42      |
|                                                      |            |                 |            | 50      | 0         | 21.56                   | 18.56              | 33               | -14.44      |
|                                                      | 39700      | 2501            | 256QAM     | 1       | 0         | 19.44                   | 16.44              | 33               | -16.56      |
|                                                      |            |                 |            | 1       | 49        | 19.49                   | 16.49              | 33               | -16.51      |
|                                                      |            |                 |            | 25      | 12        | 18.69                   | 15.69              | 33               | -17.31      |
|                                                      |            |                 |            | 50      | 0         | 18.88                   | 15.88              | 33               | -17.12      |
|                                                      | 40620      | 2593            | 256QAM     | 1       | 0         | 19.45                   | 16.45              | 33               | -16.55      |
|                                                      |            |                 |            | 1       | 49        | 19.48                   | 16.48              | 33               | -16.52      |
|                                                      |            |                 |            | 25      | 12        | 18.76                   | 15.76              | 33               | -17.24      |
|                                                      |            |                 |            | 50      | 0         | 18.74                   | 15.74              | 33               | -17.26      |
|                                                      | 41540      | 2685            | 256QAM     | 1       | 0         | 19.40                   | 16.40              | 33               | -16.6       |
|                                                      |            |                 |            | 1       | 49        | 19.47                   | 16.47              | 33               | -16.53      |
|                                                      |            |                 |            | 25      | 12        | 18.70                   | 15.70              | 33               | -17.3       |
|                                                      |            |                 |            | 50      | 0         | 18.70                   | 15.70              | 33               | -17.3       |

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| Antenna gain (dBi)                                   |            | -3              |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 41 Uplink frequency band : 2496 to 2690 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                   | 39725      | 2503.5          | QPSK       | 1       | 0         | 23.58                   | 20.58              | 33               | -12.42      |
|                                                      |            |                 |            | 1       | 74        | 23.33                   | 20.33              | 33               | -12.67      |
|                                                      |            |                 |            | 36      | 18        | 22.49                   | 19.49              | 33               | -13.51      |
|                                                      |            |                 |            | 75      | 0         | 22.71                   | 19.71              | 33               | -13.29      |
|                                                      | 40620      | 2593            | QPSK       | 1       | 0         | 23.50                   | 20.50              | 33               | -12.5       |
|                                                      |            |                 |            | 1       | 74        | 23.46                   | 20.46              | 33               | -12.54      |
|                                                      |            |                 |            | 36      | 18        | 22.30                   | 19.30              | 33               | -13.7       |
|                                                      |            |                 |            | 75      | 0         | 22.51                   | 19.51              | 33               | -13.49      |
|                                                      | 41515      | 2682.5          | QPSK       | 1       | 0         | 23.66                   | 20.66              | 33               | -12.34      |
|                                                      |            |                 |            | 1       | 74        | 23.57                   | 20.57              | 33               | -12.43      |
|                                                      |            |                 |            | 36      | 18        | 22.46                   | 19.46              | 33               | -13.54      |
|                                                      |            |                 |            | 75      | 0         | 22.52                   | 19.52              | 33               | -13.48      |
|                                                      | 39725      | 2503.5          | 16QAM      | 1       | 0         | 22.35                   | 19.35              | 33               | -13.65      |
|                                                      |            |                 |            | 1       | 74        | 22.32                   | 19.32              | 33               | -13.68      |
|                                                      |            |                 |            | 36      | 18        | 21.87                   | 18.87              | 33               | -14.13      |
|                                                      |            |                 |            | 75      | 0         | 21.93                   | 18.93              | 33               | -14.07      |
|                                                      | 40620      | 2593            | 16QAM      | 1       | 0         | 22.56                   | 19.56              | 33               | -13.44      |
|                                                      |            |                 |            | 1       | 74        | 22.33                   | 19.33              | 33               | -13.67      |
|                                                      |            |                 |            | 36      | 18        | 21.87                   | 18.87              | 33               | -14.13      |
|                                                      |            |                 |            | 75      | 0         | 21.96                   | 18.96              | 33               | -14.04      |
|                                                      | 41515      | 2682.5          | 16QAM      | 1       | 0         | 22.60                   | 19.60              | 33               | -13.4       |
|                                                      |            |                 |            | 1       | 74        | 22.37                   | 19.37              | 33               | -13.63      |
|                                                      |            |                 |            | 36      | 18        | 21.94                   | 18.94              | 33               | -14.06      |
|                                                      |            |                 |            | 75      | 0         | 21.88                   | 18.88              | 33               | -14.12      |
|                                                      | 39725      | 2503.5          | 64QAM      | 1       | 0         | 22.49                   | 19.49              | 33               | -13.51      |
|                                                      |            |                 |            | 1       | 74        | 22.47                   | 19.47              | 33               | -13.53      |
|                                                      |            |                 |            | 36      | 18        | 21.70                   | 18.70              | 33               | -14.3       |
|                                                      |            |                 |            | 75      | 0         | 21.60                   | 18.60              | 33               | -14.4       |
|                                                      | 40620      | 2593            | 64QAM      | 1       | 0         | 22.45                   | 19.45              | 33               | -13.55      |
|                                                      |            |                 |            | 1       | 74        | 22.49                   | 19.49              | 33               | -13.51      |
|                                                      |            |                 |            | 36      | 18        | 21.66                   | 18.66              | 33               | -14.34      |
|                                                      |            |                 |            | 75      | 0         | 21.78                   | 18.78              | 33               | -14.22      |
|                                                      | 41515      | 2682.5          | 64QAM      | 1       | 0         | 22.49                   | 19.49              | 33               | -13.51      |
|                                                      |            |                 |            | 1       | 74        | 22.48                   | 19.48              | 33               | -13.52      |
|                                                      |            |                 |            | 36      | 18        | 21.60                   | 18.60              | 33               | -14.4       |
|                                                      |            |                 |            | 75      | 0         | 21.62                   | 18.62              | 33               | -14.38      |
|                                                      | 39725      | 2503.5          | 256QAM     | 1       | 0         | 19.44                   | 16.44              | 33               | -16.56      |
|                                                      |            |                 |            | 1       | 74        | 19.49                   | 16.49              | 33               | -16.51      |
|                                                      |            |                 |            | 36      | 18        | 18.85                   | 15.85              | 33               | -17.15      |
|                                                      |            |                 |            | 75      | 0         | 18.92                   | 15.92              | 33               | -17.08      |
|                                                      | 40620      | 2593            | 256QAM     | 1       | 0         | 19.48                   | 16.48              | 33               | -16.52      |
|                                                      |            |                 |            | 1       | 74        | 19.46                   | 16.46              | 33               | -16.54      |
|                                                      |            |                 |            | 36      | 18        | 18.86                   | 15.86              | 33               | -17.14      |
|                                                      |            |                 |            | 75      | 0         | 18.88                   | 15.88              | 33               | -17.12      |
|                                                      | 41515      | 2682.5          | 256QAM     | 1       | 0         | 19.45                   | 16.45              | 33               | -16.55      |
|                                                      |            |                 |            | 1       | 74        | 18.45                   | 15.45              | 33               | -17.55      |
|                                                      |            |                 |            | 36      | 18        | 18.84                   | 15.84              | 33               | -17.16      |
|                                                      |            |                 |            | 75      | 0         | 18.73                   | 15.73              | 33               | -17.27      |

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| Antenna gain (dBi)                                   |            | -3              |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 41 Uplink frequency band : 2496 to 2690 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                   | 39750      | 2506            | QPSK       | 1       | 0         | 23.66                   | 20.66              | 33               | -12.34      |
|                                                      |            |                 |            | 1       | 99        | 23.52                   | 20.52              | 33               | -12.48      |
|                                                      |            |                 |            | 50      | 25        | 22.58                   | 19.58              | 33               | -13.42      |
|                                                      |            |                 |            | 100     | 0         | 22.73                   | 19.73              | 33               | -13.27      |
|                                                      | 40620      | 2593            | QPSK       | 1       | 0         | 23.65                   | 20.65              | 33               | -12.35      |
|                                                      |            |                 |            | 1       | 99        | 23.51                   | 20.51              | 33               | -12.49      |
|                                                      |            |                 |            | 50      | 25        | 22.36                   | 19.36              | 33               | -13.64      |
|                                                      |            |                 |            | 100     | 0         | 22.68                   | 19.68              | 33               | -13.32      |
|                                                      | 41490      | 2680            | QPSK       | 1       | 0         | 23.72                   | 20.72              | 33               | -12.28      |
|                                                      |            |                 |            | 1       | 99        | 23.68                   | 20.68              | 33               | -12.32      |
|                                                      |            |                 |            | 50      | 25        | 22.55                   | 19.55              | 33               | -13.45      |
|                                                      |            |                 |            | 100     | 0         | 22.67                   | 19.67              | 33               | -13.33      |
|                                                      | 39750      | 2506            | 16QAM      | 1       | 0         | 22.54                   | 19.54              | 33               | -13.46      |
|                                                      |            |                 |            | 1       | 99        | 22.41                   | 19.41              | 33               | -13.59      |
|                                                      |            |                 |            | 50      | 25        | 21.94                   | 18.94              | 33               | -14.06      |
|                                                      |            |                 |            | 100     | 0         | 21.95                   | 18.95              | 33               | -14.05      |
|                                                      | 40620      | 2593            | 16QAM      | 1       | 0         | 22.58                   | 19.58              | 33               | -13.42      |
|                                                      |            |                 |            | 1       | 99        | 22.42                   | 19.42              | 33               | -13.58      |
|                                                      |            |                 |            | 50      | 25        | 21.89                   | 18.89              | 33               | -14.11      |
|                                                      |            |                 |            | 100     | 0         | 21.96                   | 18.96              | 33               | -14.04      |
|                                                      | 41490      | 2680            | 16QAM      | 1       | 0         | 22.63                   | 19.63              | 33               | -13.37      |
|                                                      |            |                 |            | 1       | 99        | 22.50                   | 19.50              | 33               | -13.5       |
|                                                      |            |                 |            | 50      | 25        | 21.97                   | 18.97              | 33               | -14.03      |
|                                                      |            |                 |            | 100     | 0         | 21.91                   | 18.91              | 33               | -14.09      |
|                                                      | 39750      | 2506            | 64QAM      | 1       | 0         | 22.47                   | 19.47              | 33               | -13.53      |
|                                                      |            |                 |            | 1       | 99        | 22.48                   | 19.48              | 33               | -13.52      |
|                                                      |            |                 |            | 50      | 25        | 21.80                   | 18.80              | 33               | -14.2       |
|                                                      |            |                 |            | 100     | 0         | 21.64                   | 18.64              | 33               | -14.36      |
|                                                      | 40620      | 2593            | 64QAM      | 1       | 0         | 22.44                   | 19.44              | 33               | -13.56      |
|                                                      |            |                 |            | 1       | 99        | 22.42                   | 19.42              | 33               | -13.58      |
|                                                      |            |                 |            | 50      | 25        | 21.72                   | 18.72              | 33               | -14.28      |
|                                                      |            |                 |            | 100     | 0         | 21.79                   | 18.79              | 33               | -14.21      |
|                                                      | 41490      | 2680            | 64QAM      | 1       | 0         | 22.48                   | 19.48              | 33               | -13.52      |
|                                                      |            |                 |            | 1       | 99        | 22.48                   | 19.48              | 33               | -13.52      |
|                                                      |            |                 |            | 50      | 25        | 21.68                   | 18.68              | 33               | -14.32      |
|                                                      |            |                 |            | 100     | 0         | 21.80                   | 18.80              | 33               | -14.2       |
|                                                      | 39750      | 2506            | 256QAM     | 1       | 0         | 19.31                   | 16.31              | 33               | -16.69      |
|                                                      |            |                 |            | 1       | 99        | 19.43                   | 16.43              | 33               | -16.57      |
|                                                      |            |                 |            | 50      | 25        | 18.68                   | 15.68              | 33               | -17.32      |
|                                                      |            |                 |            | 100     | 0         | 18.62                   | 15.62              | 33               | -17.38      |
|                                                      | 40620      | 2593            | 256QAM     | 1       | 0         | 19.46                   | 16.46              | 33               | -16.54      |
|                                                      |            |                 |            | 1       | 99        | 19.44                   | 16.44              | 33               | -16.56      |
|                                                      |            |                 |            | 50      | 25        | 18.66                   | 15.66              | 33               | -17.34      |
|                                                      |            |                 |            | 100     | 0         | 18.65                   | 15.65              | 33               | -17.35      |
|                                                      | 41490      | 2680            | 256QAM     | 1       | 0         | 19.31                   | 16.31              | 33               | -16.69      |
|                                                      |            |                 |            | 1       | 99        | 19.35                   | 16.35              | 33               | -16.65      |
|                                                      |            |                 |            | 50      | 25        | 18.70                   | 15.70              | 33               | -17.3       |
|                                                      |            |                 |            | 100     | 0         | 18.56                   | 15.56              | 33               | -17.44      |

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| Antenna gain (dBi)                                   |               | -1.1               |            |            |              |                               |                          |                        |                |
|------------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |               |                    |            |            |              |                               |                          |                        |                |
| BW<br>(MHz)                                          | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 1.4                                                  | 131979        | 1710.7             | QPSK       | 1          | 0            | 23.24                         | 22.14                    | 30                     | -7.86          |
|                                                      |               |                    |            | 1          | 5            | 23.01                         | 21.91                    | 30                     | -8.09          |
|                                                      |               |                    |            | 3          | 2            | 22.09                         | 20.99                    | 30                     | -9.01          |
|                                                      |               |                    |            | 6          | 0            | 21.99                         | 20.89                    | 30                     | -9.11          |
|                                                      | 132322        | 1745               | QPSK       | 1          | 0            | 23.11                         | 22.01                    | 30                     | -7.99          |
|                                                      |               |                    |            | 1          | 5            | 22.82                         | 21.72                    | 30                     | -8.28          |
|                                                      |               |                    |            | 3          | 2            | 21.87                         | 20.77                    | 30                     | -9.23          |
|                                                      |               |                    |            | 6          | 0            | 21.87                         | 20.77                    | 30                     | -9.23          |
|                                                      | 132665        | 1779.3             | QPSK       | 1          | 0            | 22.93                         | 21.83                    | 30                     | -8.17          |
|                                                      |               |                    |            | 1          | 5            | 22.69                         | 21.59                    | 30                     | -8.41          |
|                                                      |               |                    |            | 3          | 2            | 22.11                         | 21.01                    | 30                     | -8.99          |
|                                                      |               |                    |            | 6          | 0            | 22.14                         | 21.04                    | 30                     | -8.96          |
|                                                      | 131979        | 1710.7             | 16QAM      | 1          | 0            | 21.68                         | 20.58                    | 30                     | -9.42          |
|                                                      |               |                    |            | 1          | 5            | 21.88                         | 20.78                    | 30                     | -9.22          |
|                                                      |               |                    |            | 3          | 2            | 20.87                         | 19.77                    | 30                     | -10.23         |
|                                                      |               |                    |            | 6          | 0            | 20.79                         | 19.69                    | 30                     | -10.31         |
|                                                      | 132322        | 1745               | 16QAM      | 1          | 0            | 22.36                         | 21.26                    | 30                     | -8.74          |
|                                                      |               |                    |            | 1          | 5            | 22.43                         | 21.33                    | 30                     | -8.67          |
|                                                      |               |                    |            | 3          | 2            | 20.81                         | 19.71                    | 30                     | -10.29         |
|                                                      |               |                    |            | 6          | 0            | 20.72                         | 19.62                    | 30                     | -10.38         |
|                                                      | 132665        | 1779.3             | 16QAM      | 1          | 0            | 22.01                         | 20.91                    | 30                     | -9.09          |
|                                                      |               |                    |            | 1          | 5            | 22.04                         | 20.94                    | 30                     | -9.06          |
|                                                      |               |                    |            | 3          | 2            | 21.09                         | 19.99                    | 30                     | -10.01         |
|                                                      |               |                    |            | 6          | 0            | 21.13                         | 20.03                    | 30                     | -9.97          |
|                                                      | 131979        | 1710.7             | 64QAM      | 1          | 0            | 22.36                         | 21.26                    | 30                     | -8.74          |
|                                                      |               |                    |            | 1          | 5            | 22.19                         | 21.09                    | 30                     | -8.91          |
|                                                      |               |                    |            | 3          | 2            | 20.93                         | 19.83                    | 30                     | -10.17         |
|                                                      |               |                    |            | 6          | 0            | 20.97                         | 19.87                    | 30                     | -10.13         |
|                                                      | 132322        | 1745               | 64QAM      | 1          | 0            | 22.23                         | 21.13                    | 30                     | -8.87          |
|                                                      |               |                    |            | 1          | 5            | 22.32                         | 21.22                    | 30                     | -8.78          |
|                                                      |               |                    |            | 3          | 2            | 20.90                         | 19.80                    | 30                     | -10.2          |
|                                                      |               |                    |            | 6          | 0            | 20.83                         | 19.73                    | 30                     | -10.27         |
|                                                      | 132665        | 1779.3             | 64QAM      | 1          | 0            | 22.19                         | 21.09                    | 30                     | -8.91          |
|                                                      |               |                    |            | 1          | 5            | 21.89                         | 20.79                    | 30                     | -9.21          |
|                                                      |               |                    |            | 3          | 2            | 21.01                         | 19.91                    | 30                     | -10.09         |
|                                                      |               |                    |            | 6          | 0            | 21.11                         | 20.01                    | 30                     | -9.99          |
|                                                      | 131979        | 1710.7             | 256QAM     | 1          | 0            | 19.48                         | 18.38                    | 30                     | -11.62         |
|                                                      |               |                    |            | 1          | 5            | 19.20                         | 18.10                    | 30                     | -11.9          |
|                                                      |               |                    |            | 3          | 2            | 18.63                         | 17.53                    | 30                     | -12.47         |
|                                                      |               |                    |            | 6          | 0            | 18.61                         | 17.51                    | 30                     | -12.49         |
|                                                      | 132322        | 1745               | 256QAM     | 1          | 0            | 19.40                         | 18.30                    | 30                     | -11.7          |
|                                                      |               |                    |            | 1          | 5            | 19.43                         | 18.33                    | 30                     | -11.67         |
|                                                      |               |                    |            | 3          | 2            | 18.72                         | 17.62                    | 30                     | -12.38         |
|                                                      |               |                    |            | 6          | 0            | 18.53                         | 17.43                    | 30                     | -12.57         |
|                                                      | 132665        | 1779.3             | 256QAM     | 1          | 0            | 19.43                         | 18.33                    | 30                     | -11.67         |
|                                                      |               |                    |            | 1          | 5            | 19.25                         | 18.15                    | 30                     | -11.85         |
|                                                      |               |                    |            | 3          | 2            | 18.57                         | 17.47                    | 30                     | -12.53         |
|                                                      |               |                    |            | 6          | 0            | 18.56                         | 17.46                    | 30                     | -12.54         |

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| Antenna gain (dBi)                                   |               | -1.1               |            |            |              |                               |                          |                        |                |
|------------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |               |                    |            |            |              |                               |                          |                        |                |
| BW<br>(MHz)                                          | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm) | EIRP<br>Average<br>(dBm) | EIRP<br>Limit<br>(dBm) | Margin<br>(dB) |
| 3                                                    | 131987        | 1711.5             | QPSK       | 1          | 0            | 23.29                         | 22.19                    | 30                     | -7.81          |
|                                                      |               |                    |            | 1          | 14           | 23.07                         | 21.97                    | 30                     | -8.03          |
|                                                      |               |                    |            | 8          | 4            | 22.12                         | 21.02                    | 30                     | -8.98          |
|                                                      |               |                    |            | 15         | 0            | 22.09                         | 20.99                    | 30                     | -9.01          |
|                                                      | 132322        | 1745               | QPSK       | 1          | 0            | 23.27                         | 22.17                    | 30                     | -7.83          |
|                                                      |               |                    |            | 1          | 14           | 22.86                         | 21.76                    | 30                     | -8.24          |
|                                                      |               |                    |            | 8          | 4            | 21.93                         | 20.83                    | 30                     | -9.17          |
|                                                      |               |                    |            | 15         | 0            | 21.95                         | 20.85                    | 30                     | -9.15          |
|                                                      | 132657        | 1778.5             | QPSK       | 1          | 0            | 23.04                         | 21.94                    | 30                     | -8.06          |
|                                                      |               |                    |            | 1          | 14           | 22.82                         | 21.72                    | 30                     | -8.28          |
|                                                      |               |                    |            | 8          | 4            | 22.22                         | 21.12                    | 30                     | -8.88          |
|                                                      |               |                    |            | 15         | 0            | 22.15                         | 21.05                    | 30                     | -8.95          |
|                                                      | 131987        | 1711.5             | 16QAM      | 1          | 0            | 21.80                         | 20.70                    | 30                     | -9.3           |
|                                                      |               |                    |            | 1          | 14           | 21.93                         | 20.83                    | 30                     | -9.17          |
|                                                      |               |                    |            | 8          | 4            | 21.06                         | 19.96                    | 30                     | -10.04         |
|                                                      |               |                    |            | 15         | 0            | 20.84                         | 19.74                    | 30                     | -10.26         |
|                                                      | 132322        | 1745               | 16QAM      | 1          | 0            | 22.48                         | 21.38                    | 30                     | -8.62          |
|                                                      |               |                    |            | 1          | 14           | 22.58                         | 21.48                    | 30                     | -8.52          |
|                                                      |               |                    |            | 8          | 4            | 20.91                         | 19.81                    | 30                     | -10.19         |
|                                                      |               |                    |            | 15         | 0            | 20.90                         | 19.80                    | 30                     | -10.2          |
|                                                      | 132657        | 1778.5             | 16QAM      | 1          | 0            | 22.20                         | 21.10                    | 30                     | -8.9           |
|                                                      |               |                    |            | 1          | 14           | 22.11                         | 21.01                    | 30                     | -8.99          |
|                                                      |               |                    |            | 8          | 4            | 21.11                         | 20.01                    | 30                     | -9.99          |
|                                                      |               |                    |            | 15         | 0            | 21.16                         | 20.06                    | 30                     | -9.94          |
|                                                      | 131987        | 1711.5             | 64QAM      | 1          | 0            | 22.50                         | 21.40                    | 30                     | -8.6           |
|                                                      |               |                    |            | 1          | 14           | 22.34                         | 21.24                    | 30                     | -8.76          |
|                                                      |               |                    |            | 8          | 4            | 21.05                         | 19.95                    | 30                     | -10.05         |
|                                                      |               |                    |            | 15         | 0            | 21.01                         | 19.91                    | 30                     | -10.09         |
|                                                      | 132322        | 1745               | 64QAM      | 1          | 0            | 22.24                         | 21.14                    | 30                     | -8.86          |
|                                                      |               |                    |            | 1          | 14           | 22.35                         | 21.25                    | 30                     | -8.75          |
|                                                      |               |                    |            | 8          | 4            | 21.01                         | 19.91                    | 30                     | -10.09         |
|                                                      |               |                    |            | 15         | 0            | 20.90                         | 19.80                    | 30                     | -10.2          |
|                                                      | 132657        | 1778.5             | 64QAM      | 1          | 0            | 22.19                         | 21.09                    | 30                     | -8.91          |
|                                                      |               |                    |            | 1          | 14           | 22.02                         | 20.92                    | 30                     | -9.08          |
|                                                      |               |                    |            | 8          | 4            | 21.05                         | 19.95                    | 30                     | -10.05         |
|                                                      |               |                    |            | 15         | 0            | 21.25                         | 20.15                    | 30                     | -9.85          |
|                                                      | 131987        | 1711.5             | 256QAM     | 1          | 0            | 19.44                         | 18.34                    | 30                     | -11.66         |
|                                                      |               |                    |            | 1          | 14           | 19.04                         | 17.94                    | 30                     | -12.06         |
|                                                      |               |                    |            | 8          | 4            | 18.45                         | 17.35                    | 30                     | -12.65         |
|                                                      |               |                    |            | 15         | 0            | 19.36                         | 18.26                    | 30                     | -11.74         |
|                                                      | 132322        | 1745               | 256QAM     | 1          | 0            | 19.25                         | 18.15                    | 30                     | -11.85         |
|                                                      |               |                    |            | 1          | 14           | 18.53                         | 17.43                    | 30                     | -12.57         |
|                                                      |               |                    |            | 8          | 4            | 18.46                         | 17.36                    | 30                     | -12.64         |
|                                                      |               |                    |            | 15         | 0            | 19.33                         | 18.23                    | 30                     | -11.77         |
|                                                      | 132657        | 1778.5             | 256QAM     | 1          | 0            | 19.33                         | 18.23                    | 30                     | -11.77         |
|                                                      |               |                    |            | 1          | 14           | 19.18                         | 18.08                    | 30                     | -11.92         |
|                                                      |               |                    |            | 8          | 4            | 18.44                         | 17.34                    | 30                     | -12.66         |
|                                                      |               |                    |            | 15         | 0            | 18.43                         | 17.33                    | 30                     | -12.67         |

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| Antenna gain (dBi)                                   |            | -1.1            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5                                                    | 131997     | 1712.5          | QPSK       | 1       | 0         | 23.38                   | 22.28              | 30               | -7.72       |
|                                                      |            |                 |            | 1       | 24        | 23.18                   | 22.08              | 30               | -7.92       |
|                                                      |            |                 |            | 12      | 6         | 22.15                   | 21.05              | 30               | -8.95       |
|                                                      |            |                 |            | 25      | 0         | 22.18                   | 21.08              | 30               | -8.92       |
|                                                      | 132322     | 1745            | QPSK       | 1       | 0         | 23.41                   | 22.31              | 30               | -7.69       |
|                                                      |            |                 |            | 1       | 24        | 23.00                   | 21.90              | 30               | -8.1        |
|                                                      |            |                 |            | 12      | 6         | 22.06                   | 20.96              | 30               | -9.04       |
|                                                      |            |                 |            | 25      | 0         | 22.00                   | 20.90              | 30               | -9.1        |
|                                                      | 132647     | 1777.5          | QPSK       | 1       | 0         | 23.10                   | 22.00              | 30               | -8          |
|                                                      |            |                 |            | 1       | 24        | 22.93                   | 21.83              | 30               | -8.17       |
|                                                      |            |                 |            | 12      | 6         | 22.34                   | 21.24              | 30               | -8.76       |
|                                                      |            |                 |            | 25      | 0         | 22.17                   | 21.07              | 30               | -8.93       |
|                                                      | 131997     | 1712.5          | 16QAM      | 1       | 0         | 21.97                   | 20.87              | 30               | -9.13       |
|                                                      |            |                 |            | 1       | 24        | 22.10                   | 21.00              | 30               | -9          |
|                                                      |            |                 |            | 12      | 6         | 21.11                   | 20.01              | 30               | -9.99       |
|                                                      |            |                 |            | 25      | 0         | 20.94                   | 19.84              | 30               | -10.16      |
|                                                      | 132322     | 1745            | 16QAM      | 1       | 0         | 22.48                   | 21.38              | 30               | -8.62       |
|                                                      |            |                 |            | 1       | 24        | 22.60                   | 21.50              | 30               | -8.5        |
|                                                      |            |                 |            | 12      | 6         | 21.09                   | 19.99              | 30               | -10.01      |
|                                                      |            |                 |            | 25      | 0         | 21.05                   | 19.95              | 30               | -10.05      |
|                                                      | 132647     | 1777.5          | 16QAM      | 1       | 0         | 22.36                   | 21.26              | 30               | -8.74       |
|                                                      |            |                 |            | 1       | 24        | 22.21                   | 21.11              | 30               | -8.89       |
|                                                      |            |                 |            | 12      | 6         | 21.26                   | 20.16              | 30               | -9.84       |
|                                                      |            |                 |            | 25      | 0         | 21.19                   | 20.09              | 30               | -9.91       |
|                                                      | 131997     | 1712.5          | 64QAM      | 1       | 0         | 22.49                   | 21.39              | 30               | -8.61       |
|                                                      |            |                 |            | 1       | 24        | 22.42                   | 21.32              | 30               | -8.68       |
|                                                      |            |                 |            | 12      | 6         | 21.13                   | 20.03              | 30               | -9.97       |
|                                                      |            |                 |            | 25      | 0         | 21.09                   | 19.99              | 30               | -10.01      |
|                                                      | 132322     | 1745            | 64QAM      | 1       | 0         | 22.31                   | 21.21              | 30               | -8.79       |
|                                                      |            |                 |            | 1       | 24        | 22.41                   | 21.31              | 30               | -8.69       |
|                                                      |            |                 |            | 12      | 6         | 21.19                   | 20.09              | 30               | -9.91       |
|                                                      |            |                 |            | 25      | 0         | 20.94                   | 19.84              | 30               | -10.16      |
|                                                      | 132647     | 1777.5          | 64QAM      | 1       | 0         | 22.21                   | 21.11              | 30               | -8.89       |
|                                                      |            |                 |            | 1       | 24        | 22.05                   | 20.95              | 30               | -9.05       |
|                                                      |            |                 |            | 12      | 6         | 21.22                   | 20.12              | 30               | -9.88       |
|                                                      |            |                 |            | 25      | 0         | 21.31                   | 20.21              | 30               | -9.79       |
|                                                      | 131997     | 1712.5          | 256QAM     | 1       | 0         | 19.49                   | 18.39              | 30               | -11.61      |
|                                                      |            |                 |            | 1       | 24        | 19.12                   | 18.02              | 30               | -11.98      |
|                                                      |            |                 |            | 12      | 6         | 18.59                   | 17.49              | 30               | -12.51      |
|                                                      |            |                 |            | 25      | 0         | 18.59                   | 17.49              | 30               | -12.51      |
|                                                      | 132322     | 1745            | 256QAM     | 1       | 0         | 19.46                   | 18.36              | 30               | -11.64      |
|                                                      |            |                 |            | 1       | 24        | 19.42                   | 18.32              | 30               | -11.68      |
|                                                      |            |                 |            | 12      | 6         | 18.63                   | 17.53              | 30               | -12.47      |
|                                                      |            |                 |            | 25      | 0         | 18.46                   | 17.36              | 30               | -12.64      |
|                                                      | 132647     | 1777.5          | 256QAM     | 1       | 0         | 19.41                   | 18.31              | 30               | -11.69      |
|                                                      |            |                 |            | 1       | 24        | 19.31                   | 18.21              | 30               | -11.79      |
|                                                      |            |                 |            | 12      | 6         | 18.45                   | 17.35              | 30               | -12.65      |
|                                                      |            |                 |            | 25      | 0         | 18.60                   | 17.50              | 30               | -12.5       |

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| Antenna gain (dBi)                                   |            | -1.1            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10                                                   | 132022     | 1715            | QPSK       | 1       | 0         | 23.43                   | 22.33              | 30               | -7.67       |
|                                                      |            |                 |            | 1       | 49        | 23.22                   | 22.12              | 30               | -7.88       |
|                                                      |            |                 |            | 25      | 12        | 22.19                   | 21.09              | 30               | -8.91       |
|                                                      |            |                 |            | 50      | 0         | 22.30                   | 21.20              | 30               | -8.8        |
|                                                      | 132322     | 1745            | QPSK       | 1       | 0         | 23.45                   | 22.35              | 30               | -7.65       |
|                                                      |            |                 |            | 1       | 49        | 23.08                   | 21.98              | 30               | -8.02       |
|                                                      |            |                 |            | 25      | 12        | 22.19                   | 21.09              | 30               | -8.91       |
|                                                      |            |                 |            | 50      | 0         | 22.15                   | 21.05              | 30               | -8.95       |
|                                                      | 132622     | 1775            | QPSK       | 1       | 0         | 23.28                   | 22.18              | 30               | -7.82       |
|                                                      |            |                 |            | 1       | 49        | 23.02                   | 21.92              | 30               | -8.08       |
|                                                      |            |                 |            | 25      | 12        | 22.45                   | 21.35              | 30               | -8.65       |
|                                                      |            |                 |            | 50      | 0         | 22.23                   | 21.13              | 30               | -8.87       |
|                                                      | 132022     | 1715            | 16QAM      | 1       | 0         | 22.16                   | 21.06              | 30               | -8.94       |
|                                                      |            |                 |            | 1       | 49        | 22.17                   | 21.07              | 30               | -8.93       |
|                                                      |            |                 |            | 25      | 12        | 21.27                   | 20.17              | 30               | -9.83       |
|                                                      |            |                 |            | 50      | 0         | 21.13                   | 20.03              | 30               | -9.97       |
|                                                      | 132322     | 1745            | 16QAM      | 1       | 0         | 22.60                   | 21.50              | 30               | -8.5        |
|                                                      |            |                 |            | 1       | 49        | 22.65                   | 21.55              | 30               | -8.45       |
|                                                      |            |                 |            | 25      | 12        | 21.18                   | 20.08              | 30               | -9.92       |
|                                                      |            |                 |            | 50      | 0         | 21.24                   | 20.14              | 30               | -9.86       |
|                                                      | 132622     | 1775            | 16QAM      | 1       | 0         | 22.44                   | 21.34              | 30               | -8.66       |
|                                                      |            |                 |            | 1       | 49        | 22.24                   | 21.14              | 30               | -8.86       |
|                                                      |            |                 |            | 25      | 12        | 21.36                   | 20.26              | 30               | -9.74       |
|                                                      |            |                 |            | 50      | 0         | 21.20                   | 20.10              | 30               | -9.9        |
|                                                      | 132022     | 1715            | 64QAM      | 1       | 0         | 22.47                   | 21.37              | 30               | -8.63       |
|                                                      |            |                 |            | 1       | 49        | 22.49                   | 21.39              | 30               | -8.61       |
|                                                      |            |                 |            | 25      | 12        | 21.24                   | 20.14              | 30               | -9.86       |
|                                                      |            |                 |            | 50      | 0         | 21.28                   | 20.18              | 30               | -9.82       |
|                                                      | 132322     | 1745            | 64QAM      | 1       | 0         | 22.35                   | 21.25              | 30               | -8.75       |
|                                                      |            |                 |            | 1       | 49        | 22.47                   | 21.37              | 30               | -8.63       |
|                                                      |            |                 |            | 25      | 12        | 21.33                   | 20.23              | 30               | -9.77       |
|                                                      |            |                 |            | 50      | 0         | 21.08                   | 19.98              | 30               | -10.02      |
|                                                      | 132622     | 1775            | 64QAM      | 1       | 0         | 22.34                   | 21.24              | 30               | -8.76       |
|                                                      |            |                 |            | 1       | 49        | 22.22                   | 21.12              | 30               | -8.88       |
|                                                      |            |                 |            | 25      | 12        | 21.36                   | 20.26              | 30               | -9.74       |
|                                                      |            |                 |            | 50      | 0         | 21.37                   | 20.27              | 30               | -9.73       |
|                                                      | 132022     | 1715            | 256QAM     | 1       | 0         | 19.40                   | 18.30              | 30               | -11.7       |
|                                                      |            |                 |            | 1       | 49        | 19.19                   | 18.09              | 30               | -11.91      |
|                                                      |            |                 |            | 25      | 12        | 18.49                   | 17.39              | 30               | -12.61      |
|                                                      |            |                 |            | 50      | 0         | 18.68                   | 17.58              | 30               | -12.42      |
|                                                      | 132322     | 1745            | 256QAM     | 1       | 0         | 19.45                   | 18.35              | 30               | -11.65      |
|                                                      |            |                 |            | 1       | 49        | 19.38                   | 18.28              | 30               | -11.72      |
|                                                      |            |                 |            | 25      | 12        | 18.56                   | 17.46              | 30               | -12.54      |
|                                                      |            |                 |            | 50      | 0         | 18.51                   | 17.41              | 30               | -12.59      |
|                                                      | 132622     | 1775            | 256QAM     | 1       | 0         | 19.41                   | 18.31              | 30               | -11.69      |
|                                                      |            |                 |            | 1       | 49        | 19.33                   | 18.23              | 30               | -11.77      |
|                                                      |            |                 |            | 25      | 12        | 18.43                   | 17.33              | 30               | -12.67      |
|                                                      |            |                 |            | 50      | 0         | 18.62                   | 17.52              | 30               | -12.48      |

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| Antenna gain (dBi)                                   |            | -1.1            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15                                                   | 132047     | 1717.5          | QPSK       | 1       | 0         | 23.50                   | 22.40              | 30               | -7.6        |
|                                                      |            |                 |            | 1       | 74        | 23.35                   | 22.25              | 30               | -7.75       |
|                                                      |            |                 |            | 36      | 18        | 22.34                   | 21.24              | 30               | -8.76       |
|                                                      |            |                 |            | 75      | 0         | 22.42                   | 21.32              | 30               | -8.68       |
|                                                      | 132322     | 1745            | QPSK       | 1       | 0         | 23.54                   | 22.44              | 30               | -7.56       |
|                                                      |            |                 |            | 1       | 74        | 23.10                   | 22.00              | 30               | -8          |
|                                                      |            |                 |            | 36      | 18        | 22.28                   | 21.18              | 30               | -8.82       |
|                                                      |            |                 |            | 75      | 0         | 22.29                   | 21.19              | 30               | -8.81       |
|                                                      | 132597     | 1772.5          | QPSK       | 1       | 0         | 23.42                   | 22.32              | 30               | -7.68       |
|                                                      |            |                 |            | 1       | 74        | 23.12                   | 22.02              | 30               | -7.98       |
|                                                      |            |                 |            | 36      | 18        | 22.49                   | 21.39              | 30               | -8.61       |
|                                                      |            |                 |            | 75      | 0         | 22.30                   | 21.20              | 30               | -8.8        |
|                                                      | 132047     | 1717.5          | 16QAM      | 1       | 0         | 22.31                   | 21.21              | 30               | -8.79       |
|                                                      |            |                 |            | 1       | 74        | 22.24                   | 21.14              | 30               | -8.86       |
|                                                      |            |                 |            | 36      | 18        | 21.32                   | 20.22              | 30               | -9.78       |
|                                                      |            |                 |            | 75      | 0         | 21.28                   | 20.18              | 30               | -9.82       |
|                                                      | 132322     | 1745            | 16QAM      | 1       | 0         | 22.64                   | 21.54              | 30               | -8.46       |
|                                                      |            |                 |            | 1       | 74        | 22.72                   | 21.62              | 30               | -8.38       |
|                                                      |            |                 |            | 36      | 18        | 21.37                   | 20.27              | 30               | -9.73       |
|                                                      |            |                 |            | 75      | 0         | 21.34                   | 20.24              | 30               | -9.76       |
|                                                      | 132597     | 1772.5          | 16QAM      | 1       | 0         | 22.44                   | 21.34              | 30               | -8.66       |
|                                                      |            |                 |            | 1       | 74        | 22.28                   | 21.18              | 30               | -8.82       |
|                                                      |            |                 |            | 36      | 18        | 21.48                   | 20.38              | 30               | -9.62       |
|                                                      |            |                 |            | 75      | 0         | 21.28                   | 20.18              | 30               | -9.82       |
|                                                      | 132047     | 1717.5          | 64QAM      | 1       | 0         | 22.48                   | 21.38              | 30               | -8.62       |
|                                                      |            |                 |            | 1       | 74        | 22.46                   | 21.36              | 30               | -8.64       |
|                                                      |            |                 |            | 36      | 18        | 21.33                   | 20.23              | 30               | -9.77       |
|                                                      |            |                 |            | 75      | 0         | 21.33                   | 20.23              | 30               | -9.77       |
|                                                      | 132322     | 1745            | 64QAM      | 1       | 0         | 22.41                   | 21.31              | 30               | -8.69       |
|                                                      |            |                 |            | 1       | 74        | 22.49                   | 21.39              | 30               | -8.61       |
|                                                      |            |                 |            | 36      | 18        | 21.33                   | 20.23              | 30               | -9.77       |
|                                                      |            |                 |            | 75      | 0         | 21.27                   | 20.17              | 30               | -9.83       |
|                                                      | 132597     | 1772.5          | 64QAM      | 1       | 0         | 22.50                   | 21.40              | 30               | -8.6        |
|                                                      |            |                 |            | 1       | 74        | 22.33                   | 21.23              | 30               | -8.77       |
|                                                      |            |                 |            | 36      | 18        | 21.52                   | 20.42              | 30               | -9.58       |
|                                                      |            |                 |            | 75      | 0         | 21.45                   | 20.35              | 30               | -9.65       |
|                                                      | 132047     | 1717.5          | 256QAM     | 1       | 0         | 19.45                   | 18.35              | 30               | -11.65      |
|                                                      |            |                 |            | 1       | 74        | 19.32                   | 18.22              | 30               | -11.78      |
|                                                      |            |                 |            | 36      | 18        | 18.66                   | 17.56              | 30               | -12.44      |
|                                                      |            |                 |            | 75      | 0         | 18.74                   | 17.64              | 30               | -12.36      |
|                                                      | 132322     | 1745            | 256QAM     | 1       | 0         | 19.50                   | 18.40              | 30               | -11.6       |
|                                                      |            |                 |            | 1       | 74        | 19.50                   | 18.40              | 30               | -11.6       |
|                                                      |            |                 |            | 36      | 18        | 18.61                   | 17.51              | 30               | -12.49      |
|                                                      |            |                 |            | 75      | 0         | 18.57                   | 17.47              | 30               | -12.53      |
|                                                      | 132597     | 1772.5          | 256QAM     | 1       | 0         | 19.41                   | 18.31              | 30               | -11.69      |
|                                                      |            |                 |            | 1       | 74        | 19.36                   | 18.26              | 30               | -11.74      |
|                                                      |            |                 |            | 36      | 18        | 18.61                   | 17.51              | 30               | -12.49      |
|                                                      |            |                 |            | 75      | 0         | 18.62                   | 17.52              | 30               | -12.48      |

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| Antenna gain (dBi)                                   |            | -1.1            |            |         |           |                         |                    |                  |             |
|------------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 66 Uplink frequency band : 1710 to 1780 MHz |            |                 |            |         |           |                         |                    |                  |             |
| BW (MHz)                                             | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20                                                   | 132072     | 1720            | QPSK       | 1       | 0         | 23.55                   | 22.45              | 30               | -7.55       |
|                                                      |            |                 |            | 1       | 99        | 23.41                   | 22.31              | 30               | -7.69       |
|                                                      |            |                 |            | 50      | 25        | 22.47                   | 21.37              | 30               | -8.63       |
|                                                      |            |                 |            | 100     | 0         | 22.44                   | 21.34              | 30               | -8.66       |
|                                                      | 132322     | 1745            | QPSK       | 1       | 0         | 23.57                   | 22.47              | 30               | -7.53       |
|                                                      |            |                 |            | 1       | 99        | 23.19                   | 22.09              | 30               | -7.91       |
|                                                      |            |                 |            | 50      | 25        | 22.49                   | 21.39              | 30               | -8.61       |
|                                                      |            |                 |            | 100     | 0         | 22.41                   | 21.31              | 30               | -8.69       |
|                                                      | 132572     | 1770            | QPSK       | 1       | 0         | 23.45                   | 22.35              | 30               | -7.65       |
|                                                      |            |                 |            | 1       | 99        | 23.28                   | 22.18              | 30               | -7.82       |
|                                                      |            |                 |            | 50      | 25        | 22.57                   | 21.47              | 30               | -8.53       |
|                                                      |            |                 |            | 100     | 0         | 22.42                   | 21.32              | 30               | -8.68       |
|                                                      | 132072     | 1720            | 16QAM      | 1       | 0         | 22.38                   | 21.28              | 30               | -8.72       |
|                                                      |            |                 |            | 1       | 99        | 22.41                   | 21.31              | 30               | -8.69       |
|                                                      |            |                 |            | 50      | 25        | 21.43                   | 20.33              | 30               | -9.67       |
|                                                      |            |                 |            | 100     | 0         | 21.42                   | 20.32              | 30               | -9.68       |
|                                                      | 132322     | 1745            | 16QAM      | 1       | 0         | 22.64                   | 21.54              | 30               | -8.46       |
|                                                      |            |                 |            | 1       | 99        | 22.77                   | 21.67              | 30               | -8.33       |
|                                                      |            |                 |            | 50      | 25        | 21.44                   | 20.34              | 30               | -9.66       |
|                                                      |            |                 |            | 100     | 0         | 21.51                   | 20.41              | 30               | -9.59       |
|                                                      | 132572     | 1770            | 16QAM      | 1       | 0         | 22.56                   | 21.46              | 30               | -8.54       |
|                                                      |            |                 |            | 1       | 99        | 22.33                   | 21.23              | 30               | -8.77       |
|                                                      |            |                 |            | 50      | 25        | 21.55                   | 20.45              | 30               | -9.55       |
|                                                      |            |                 |            | 100     | 0         | 21.42                   | 20.32              | 30               | -9.68       |
|                                                      | 132072     | 1720            | 64QAM      | 1       | 0         | 22.49                   | 21.39              | 30               | -8.61       |
|                                                      |            |                 |            | 1       | 99        | 22.45                   | 21.35              | 30               | -8.65       |
|                                                      |            |                 |            | 50      | 25        | 21.50                   | 20.40              | 30               | -9.6        |
|                                                      |            |                 |            | 100     | 0         | 21.46                   | 20.36              | 30               | -9.64       |
|                                                      | 132322     | 1745            | 64QAM      | 1       | 0         | 22.46                   | 21.36              | 30               | -8.64       |
|                                                      |            |                 |            | 1       | 99        | 22.45                   | 21.35              | 30               | -8.65       |
|                                                      |            |                 |            | 50      | 25        | 21.50                   | 20.40              | 30               | -9.6        |
|                                                      |            |                 |            | 100     | 0         | 21.46                   | 20.36              | 30               | -9.64       |
|                                                      | 132572     | 1770            | 64QAM      | 1       | 0         | 22.41                   | 21.31              | 30               | -8.69       |
|                                                      |            |                 |            | 1       | 99        | 22.43                   | 21.33              | 30               | -8.67       |
|                                                      |            |                 |            | 50      | 25        | 21.57                   | 20.47              | 30               | -9.53       |
|                                                      |            |                 |            | 100     | 0         | 21.48                   | 20.38              | 30               | -9.62       |
|                                                      | 132072     | 1720            | 256QAM     | 1       | 0         | 19.44                   | 18.34              | 30               | -11.66      |
|                                                      |            |                 |            | 1       | 99        | 19.30                   | 18.20              | 30               | -11.8       |
|                                                      |            |                 |            | 50      | 25        | 18.55                   | 17.45              | 30               | -12.55      |
|                                                      |            |                 |            | 100     | 0         | 18.58                   | 17.48              | 30               | -12.52      |
|                                                      | 132322     | 1745            | 256QAM     | 1       | 0         | 19.34                   | 18.24              | 30               | -11.76      |
|                                                      |            |                 |            | 1       | 99        | 19.32                   | 18.22              | 30               | -11.78      |
|                                                      |            |                 |            | 50      | 25        | 18.55                   | 17.45              | 30               | -12.55      |
|                                                      |            |                 |            | 100     | 0         | 18.42                   | 17.32              | 30               | -12.68      |
|                                                      | 132572     | 1770            | 256QAM     | 1       | 0         | 19.27                   | 18.17              | 30               | -11.83      |
|                                                      |            |                 |            | 1       | 99        | 19.18                   | 18.08              | 30               | -11.92      |
|                                                      |            |                 |            | 50      | 25        | 18.56                   | 17.46              | 30               | -12.54      |
|                                                      |            |                 |            | 100     | 0         | 18.48                   | 17.38              | 30               | -12.62      |

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| Antenna gain (dBi)                                 |            | -4              |            |         |           |                               |                         |                          |                       |                     |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------------|-------------------------|--------------------------|-----------------------|---------------------|
| LTE Band 71_Uplink frequency band : 663 to 698 MHz |            |                 |            |         |           |                               |                         |                          |                       |                     |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm/10MHz) | ERP Average (dBm/10MHz) | EIRP Average (dBm/10MHz) | ERP Limit (dBm/10MHz) | Margin (dBm/10M Hz) |
| 5                                                  | 133147     | 665.5           | QPSK       | 1       | 0         | 23.44                         | 17.29                   | 19.44                    | 34.77                 | -17.48              |
|                                                    |            |                 |            | 1       | 24        | 23.28                         | 17.13                   | 19.28                    | 34.77                 | -17.64              |
|                                                    |            |                 |            | 12      | 6         | 22.33                         | 16.18                   | 18.33                    | 34.77                 | -18.59              |
|                                                    |            |                 |            | 25      | 0         | 22.51                         | 16.36                   | 18.51                    | 34.77                 | -18.41              |
|                                                    | 133297     | 680.5           | QPSK       | 1       | 0         | 23.55                         | 17.40                   | 19.55                    | 34.77                 | -17.37              |
|                                                    |            |                 |            | 1       | 24        | 22.91                         | 16.76                   | 18.91                    | 34.77                 | -18.01              |
|                                                    |            |                 |            | 12      | 6         | 22.52                         | 16.37                   | 18.52                    | 34.77                 | -18.40              |
|                                                    |            |                 |            | 25      | 0         | 22.26                         | 16.11                   | 18.26                    | 34.77                 | -18.66              |
|                                                    | 133447     | 695.5           | QPSK       | 1       | 0         | 23.42                         | 17.27                   | 19.42                    | 34.77                 | -17.50              |
|                                                    |            |                 |            | 1       | 24        | 22.99                         | 16.84                   | 18.99                    | 34.77                 | -17.93              |
|                                                    |            |                 |            | 12      | 6         | 22.34                         | 16.19                   | 18.34                    | 34.77                 | -18.58              |
|                                                    |            |                 |            | 25      | 0         | 22.32                         | 16.17                   | 18.32                    | 34.77                 | -18.60              |
|                                                    | 133147     | 665.5           | 16QAM      | 1       | 0         | 22.55                         | 16.40                   | 18.55                    | 34.77                 | -18.37              |
|                                                    |            |                 |            | 1       | 24        | 22.09                         | 15.94                   | 18.09                    | 34.77                 | -18.83              |
|                                                    |            |                 |            | 12      | 6         | 21.29                         | 15.14                   | 17.29                    | 34.77                 | -19.63              |
|                                                    |            |                 |            | 25      | 0         | 21.42                         | 15.27                   | 17.42                    | 34.77                 | -19.50              |
|                                                    | 133297     | 680.5           | 16QAM      | 1       | 0         | 22.28                         | 16.13                   | 18.28                    | 34.77                 | -18.64              |
|                                                    |            |                 |            | 1       | 24        | 21.83                         | 15.68                   | 17.83                    | 34.77                 | -19.09              |
|                                                    |            |                 |            | 12      | 6         | 21.44                         | 15.29                   | 17.44                    | 34.77                 | -19.48              |
|                                                    |            |                 |            | 25      | 0         | 21.45                         | 15.30                   | 17.45                    | 34.77                 | -19.47              |
|                                                    | 133447     | 695.5           | 16QAM      | 1       | 0         | 22.26                         | 16.11                   | 18.26                    | 34.77                 | -18.66              |
|                                                    |            |                 |            | 1       | 24        | 22.00                         | 15.85                   | 18.00                    | 34.77                 | -18.92              |
|                                                    |            |                 |            | 12      | 6         | 21.26                         | 15.11                   | 17.26                    | 34.77                 | -19.66              |
|                                                    |            |                 |            | 25      | 0         | 21.32                         | 15.17                   | 17.32                    | 34.77                 | -19.60              |
|                                                    | 133147     | 665.5           | 64QAM      | 1       | 0         | 22.38                         | 16.23                   | 18.38                    | 34.77                 | -18.54              |
|                                                    |            |                 |            | 1       | 24        | 21.82                         | 15.67                   | 17.82                    | 34.77                 | -19.10              |
|                                                    |            |                 |            | 12      | 6         | 21.27                         | 15.12                   | 17.27                    | 34.77                 | -19.65              |
|                                                    |            |                 |            | 25      | 0         | 21.35                         | 15.20                   | 17.35                    | 34.77                 | -19.57              |
|                                                    | 133297     | 680.5           | 64QAM      | 1       | 0         | 22.43                         | 16.28                   | 18.43                    | 34.77                 | -18.49              |
|                                                    |            |                 |            | 1       | 24        | 21.98                         | 15.83                   | 17.98                    | 34.77                 | -18.94              |
|                                                    |            |                 |            | 12      | 6         | 21.23                         | 15.08                   | 17.23                    | 34.77                 | -19.69              |
|                                                    |            |                 |            | 25      | 0         | 21.24                         | 15.09                   | 17.24                    | 34.77                 | -19.68              |
|                                                    | 133447     | 695.5           | 64QAM      | 1       | 0         | 22.31                         | 16.16                   | 18.31                    | 34.77                 | -18.61              |
|                                                    |            |                 |            | 1       | 24        | 22.07                         | 15.92                   | 18.07                    | 34.77                 | -18.85              |
|                                                    |            |                 |            | 12      | 6         | 21.18                         | 15.03                   | 17.18                    | 34.77                 | -19.74              |
|                                                    |            |                 |            | 25      | 0         | 21.12                         | 14.97                   | 17.12                    | 34.77                 | -19.80              |
|                                                    | 133147     | 665.5           | 256QAM     | 1       | 0         | 19.42                         | 13.27                   | 15.42                    | 34.77                 | -21.50              |
|                                                    |            |                 |            | 1       | 24        | 19.48                         | 13.33                   | 15.48                    | 34.77                 | -21.44              |
|                                                    |            |                 |            | 12      | 6         | 18.91                         | 12.76                   | 14.91                    | 34.77                 | -22.01              |
|                                                    |            |                 |            | 25      | 0         | 18.25                         | 12.10                   | 14.25                    | 34.77                 | -22.67              |
|                                                    | 133297     | 680.5           | 256QAM     | 1       | 0         | 19.48                         | 13.33                   | 15.48                    | 34.77                 | -21.44              |
|                                                    |            |                 |            | 1       | 24        | 19.46                         | 13.31                   | 15.46                    | 34.77                 | -21.46              |
|                                                    |            |                 |            | 12      | 6         | 18.74                         | 12.59                   | 14.74                    | 34.77                 | -22.18              |
|                                                    |            |                 |            | 25      | 0         | 18.59                         | 12.44                   | 14.59                    | 34.77                 | -22.33              |
|                                                    | 133447     | 695.5           | 256QAM     | 1       | 0         | 19.47                         | 13.32                   | 15.47                    | 34.77                 | -21.45              |
|                                                    |            |                 |            | 1       | 24        | 19.34                         | 13.19                   | 15.34                    | 34.77                 | -21.58              |
|                                                    |            |                 |            | 12      | 6         | 18.55                         | 12.40                   | 14.55                    | 34.77                 | -22.37              |
|                                                    |            |                 |            | 25      | 0         | 18.71                         | 12.56                   | 14.71                    | 34.77                 | -22.21              |

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| Antenna gain (dBi)                                 |            | -4              |            |         |           |                               |                         |                          |                       |                     |  |  |  |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------------|-------------------------|--------------------------|-----------------------|---------------------|--|--|--|
| LTE Band 71_Uplink frequency band : 663 to 698 MHz |            |                 |            |         |           |                               |                         |                          |                       |                     |  |  |  |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm/10MHz) | ERP Average (dBm/10MHz) | EIRP Average (dBm/10MHz) | ERP Limit (dBm/10MHz) | Margin (dBm/10M Hz) |  |  |  |
| 10                                                 | 133172     | 668             | QPSK       | 1       | 0         | 23.63                         | 17.48                   | 19.63                    | 34.77                 | -17.29              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 23.29                         | 17.14                   | 19.29                    | 34.77                 | -17.63              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 22.45                         | 16.30                   | 18.45                    | 34.77                 | -18.47              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 22.69                         | 16.54                   | 18.69                    | 34.77                 | -18.23              |  |  |  |
|                                                    | 133297     | 680.5           | QPSK       | 1       | 0         | 23.65                         | 17.50                   | 19.65                    | 34.77                 | -17.27              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 23.02                         | 16.87                   | 19.02                    | 34.77                 | -17.90              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 22.52                         | 16.37                   | 18.52                    | 34.77                 | -18.40              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 22.45                         | 16.30                   | 18.45                    | 34.77                 | -18.47              |  |  |  |
|                                                    | 133422     | 693             | QPSK       | 1       | 0         | 23.57                         | 17.42                   | 19.57                    | 34.77                 | -17.35              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 23.07                         | 16.92                   | 19.07                    | 34.77                 | -17.85              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 22.40                         | 16.25                   | 18.40                    | 34.77                 | -18.52              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 22.33                         | 16.18                   | 18.33                    | 34.77                 | -18.59              |  |  |  |
|                                                    | 133172     | 668             | 16QAM      | 1       | 0         | 22.56                         | 16.41                   | 18.56                    | 34.77                 | -18.36              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 22.28                         | 16.13                   | 18.28                    | 34.77                 | -18.64              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 21.40                         | 15.25                   | 17.40                    | 34.77                 | -19.52              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 21.60                         | 15.45                   | 17.60                    | 34.77                 | -19.32              |  |  |  |
|                                                    | 133297     | 680.5           | 16QAM      | 1       | 0         | 22.46                         | 16.31                   | 18.46                    | 34.77                 | -18.46              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 21.98                         | 15.83                   | 17.98                    | 34.77                 | -18.94              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 21.47                         | 15.32                   | 17.47                    | 34.77                 | -19.45              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 21.47                         | 15.32                   | 17.47                    | 34.77                 | -19.45              |  |  |  |
|                                                    | 133422     | 693             | 16QAM      | 1       | 0         | 22.37                         | 16.22                   | 18.37                    | 34.77                 | -18.55              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 22.19                         | 16.04                   | 18.19                    | 34.77                 | -18.73              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 21.35                         | 15.20                   | 17.35                    | 34.77                 | -19.57              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 21.35                         | 15.20                   | 17.35                    | 34.77                 | -19.57              |  |  |  |
|                                                    | 133172     | 668             | 64QAM      | 1       | 0         | 22.43                         | 16.28                   | 18.43                    | 34.77                 | -18.49              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 21.98                         | 15.83                   | 17.98                    | 34.77                 | -18.94              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 21.39                         | 15.24                   | 17.39                    | 34.77                 | -19.53              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 21.38                         | 15.23                   | 17.38                    | 34.77                 | -19.54              |  |  |  |
|                                                    | 133297     | 680.5           | 64QAM      | 1       | 0         | 22.43                         | 16.28                   | 18.43                    | 34.77                 | -18.49              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 22.03                         | 15.88                   | 18.03                    | 34.77                 | -18.89              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 21.29                         | 15.14                   | 17.29                    | 34.77                 | -19.63              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 21.39                         | 15.24                   | 17.39                    | 34.77                 | -19.53              |  |  |  |
|                                                    | 133422     | 693             | 64QAM      | 1       | 0         | 22.44                         | 16.29                   | 18.44                    | 34.77                 | -18.48              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 22.11                         | 15.96                   | 18.11                    | 34.77                 | -18.81              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 21.19                         | 15.04                   | 17.19                    | 34.77                 | -19.73              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 21.19                         | 15.04                   | 17.19                    | 34.77                 | -19.73              |  |  |  |
|                                                    | 133172     | 668             | 256QAM     | 1       | 0         | 19.07                         | 12.92                   | 15.07                    | 34.77                 | -21.85              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 19.20                         | 13.05                   | 15.20                    | 34.77                 | -21.72              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 18.51                         | 12.36                   | 14.51                    | 34.77                 | -22.41              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 18.04                         | 11.89                   | 14.04                    | 34.77                 | -22.88              |  |  |  |
|                                                    | 133297     | 680.5           | 256QAM     | 1       | 0         | 19.47                         | 13.32                   | 15.47                    | 34.77                 | -21.45              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 19.29                         | 13.14                   | 15.29                    | 34.77                 | -21.63              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 18.41                         | 12.26                   | 14.41                    | 34.77                 | -22.51              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 18.38                         | 12.23                   | 14.38                    | 34.77                 | -22.54              |  |  |  |
|                                                    | 133422     | 693             | 256QAM     | 1       | 0         | 19.44                         | 13.29                   | 15.44                    | 34.77                 | -21.48              |  |  |  |
|                                                    |            |                 |            | 1       | 49        | 19.10                         | 12.95                   | 15.10                    | 34.77                 | -21.82              |  |  |  |
|                                                    |            |                 |            | 25      | 12        | 18.23                         | 12.08                   | 14.23                    | 34.77                 | -22.69              |  |  |  |
|                                                    |            |                 |            | 50      | 0         | 18.40                         | 12.25                   | 14.40                    | 34.77                 | -22.52              |  |  |  |

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| Antenna gain (dBi)                                 |               | -4                 |            |            |              |                                     |                               |                                |                              |                           |
|----------------------------------------------------|---------------|--------------------|------------|------------|--------------|-------------------------------------|-------------------------------|--------------------------------|------------------------------|---------------------------|
| LTE Band 71_Uplink frequency band : 663 to 698 MHz |               |                    |            |            |              |                                     |                               |                                |                              |                           |
| BW<br>(MHz)                                        | UL<br>Channel | Frequency<br>(MHz) | Modulation | RB<br>Size | RB<br>Offset | Conducted<br>Average<br>(dBm/10MHz) | ERP<br>Average<br>(dBm/10MHz) | EIRP<br>Average<br>(dBm/10MHz) | EIRP<br>Limit<br>(dBm/10MHz) | Margin<br>(dBm/10M<br>Hz) |
| 15                                                 | 133197        | 670.5              | QPSK       | 1          | 0            | 23.67                               | 17.52                         | 19.67                          | 34.77                        | -17.25                    |
|                                                    |               |                    |            | 1          | 74           | 23.47                               | 17.32                         | 19.47                          | 34.77                        | -17.45                    |
|                                                    |               |                    |            | 36         | 18           | 22.61                               | 16.46                         | 18.61                          | 34.77                        | -18.31                    |
|                                                    |               |                    |            | 75         | 0            | 22.72                               | 16.57                         | 18.72                          | 34.77                        | -18.20                    |
|                                                    | 133297        | 680.5              | QPSK       | 1          | 0            | 23.69                               | 17.54                         | 19.69                          | 34.77                        | -17.23                    |
|                                                    |               |                    |            | 1          | 74           | 23.13                               | 16.98                         | 19.13                          | 34.77                        | -17.79                    |
|                                                    |               |                    |            | 36         | 18           | 22.59                               | 16.44                         | 18.59                          | 34.77                        | -18.33                    |
|                                                    |               |                    |            | 75         | 0            | 22.60                               | 16.45                         | 18.60                          | 34.77                        | -18.32                    |
|                                                    | 133397        | 690.5              | QPSK       | 1          | 0            | 23.59                               | 17.44                         | 19.59                          | 34.77                        | -17.33                    |
|                                                    |               |                    |            | 1          | 74           | 23.18                               | 17.03                         | 19.18                          | 34.77                        | -17.74                    |
|                                                    |               |                    |            | 36         | 18           | 22.49                               | 16.34                         | 18.49                          | 34.77                        | -18.43                    |
|                                                    |               |                    |            | 75         | 0            | 22.39                               | 16.24                         | 18.39                          | 34.77                        | -18.53                    |
|                                                    | 133197        | 670.5              | 16QAM      | 1          | 0            | 22.59                               | 16.44                         | 18.59                          | 34.77                        | -18.33                    |
|                                                    |               |                    |            | 1          | 74           | 22.41                               | 16.26                         | 18.41                          | 34.77                        | -18.51                    |
|                                                    |               |                    |            | 36         | 18           | 21.45                               | 15.30                         | 17.45                          | 34.77                        | -19.47                    |
|                                                    |               |                    |            | 75         | 0            | 21.65                               | 15.50                         | 17.65                          | 34.77                        | -19.27                    |
|                                                    | 133297        | 680.5              | 16QAM      | 1          | 0            | 22.54                               | 16.39                         | 18.54                          | 34.77                        | -18.38                    |
|                                                    |               |                    |            | 1          | 74           | 22.09                               | 15.94                         | 18.09                          | 34.77                        | -18.83                    |
|                                                    |               |                    |            | 36         | 18           | 21.62                               | 15.47                         | 17.62                          | 34.77                        | -19.30                    |
|                                                    |               |                    |            | 75         | 0            | 21.59                               | 15.44                         | 17.59                          | 34.77                        | -19.33                    |
|                                                    | 133397        | 690.5              | 16QAM      | 1          | 0            | 22.49                               | 16.34                         | 18.49                          | 34.77                        | -18.43                    |
|                                                    |               |                    |            | 1          | 74           | 22.22                               | 16.07                         | 18.22                          | 34.77                        | -18.70                    |
|                                                    |               |                    |            | 36         | 18           | 21.39                               | 15.24                         | 17.39                          | 34.77                        | -19.53                    |
|                                                    |               |                    |            | 75         | 0            | 21.36                               | 15.21                         | 17.36                          | 34.77                        | -19.56                    |
|                                                    | 133197        | 670.5              | 64QAM      | 1          | 0            | 22.43                               | 16.28                         | 18.43                          | 34.77                        | -18.49                    |
|                                                    |               |                    |            | 1          | 74           | 22.13                               | 15.98                         | 18.13                          | 34.77                        | -18.79                    |
|                                                    |               |                    |            | 36         | 18           | 21.48                               | 15.33                         | 17.48                          | 34.77                        | -19.44                    |
|                                                    |               |                    |            | 75         | 0            | 21.57                               | 15.42                         | 17.57                          | 34.77                        | -19.35                    |
|                                                    | 133297        | 680.5              | 64QAM      | 1          | 0            | 22.47                               | 16.32                         | 18.47                          | 34.77                        | -18.45                    |
|                                                    |               |                    |            | 1          | 74           | 22.05                               | 15.90                         | 18.05                          | 34.77                        | -18.87                    |
|                                                    |               |                    |            | 36         | 18           | 21.44                               | 15.29                         | 17.44                          | 34.77                        | -19.48                    |
|                                                    |               |                    |            | 75         | 0            | 21.57                               | 15.42                         | 17.57                          | 34.77                        | -19.35                    |
|                                                    | 133397        | 690.5              | 64QAM      | 1          | 0            | 22.50                               | 16.35                         | 18.50                          | 34.77                        | -18.42                    |
|                                                    |               |                    |            | 1          | 74           | 22.24                               | 16.09                         | 18.24                          | 34.77                        | -18.68                    |
|                                                    |               |                    |            | 36         | 18           | 21.33                               | 15.18                         | 17.33                          | 34.77                        | -19.59                    |
|                                                    |               |                    |            | 75         | 0            | 21.25                               | 15.10                         | 17.25                          | 34.77                        | -19.67                    |
|                                                    | 133197        | 670.5              | 256QAM     | 1          | 0            | 19.05                               | 12.90                         | 15.05                          | 34.77                        | -21.87                    |
|                                                    |               |                    |            | 1          | 74           | 19.13                               | 12.98                         | 15.13                          | 34.77                        | -21.79                    |
|                                                    |               |                    |            | 36         | 18           | 18.35                               | 12.20                         | 14.35                          | 34.77                        | -22.57                    |
|                                                    |               |                    |            | 75         | 0            | 18.02                               | 11.87                         | 14.02                          | 34.77                        | -22.90                    |
|                                                    | 133297        | 680.5              | 256QAM     | 1          | 0            | 19.45                               | 13.30                         | 15.45                          | 34.77                        | -21.47                    |
|                                                    |               |                    |            | 1          | 74           | 19.26                               | 13.11                         | 15.26                          | 34.77                        | -21.66                    |
|                                                    |               |                    |            | 36         | 18           | 18.33                               | 12.18                         | 14.33                          | 34.77                        | -22.59                    |
|                                                    |               |                    |            | 75         | 0            | 18.34                               | 12.19                         | 14.34                          | 34.77                        | -22.58                    |
|                                                    | 133397        | 690.5              | 256QAM     | 1          | 0            | 19.33                               | 13.18                         | 15.33                          | 34.77                        | -21.59                    |
|                                                    |               |                    |            | 1          | 74           | 19.05                               | 12.90                         | 15.05                          | 34.77                        | -21.87                    |
|                                                    |               |                    |            | 36         | 18           | 18.22                               | 12.07                         | 14.22                          | 34.77                        | -22.70                    |
|                                                    |               |                    |            | 75         | 0            | 18.22                               | 12.07                         | 14.22                          | 34.77                        | -22.70                    |

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| Antenna gain (dBi)                                 |            | -4              |            |         |           |                               |                         |                          |                       |                     |
|----------------------------------------------------|------------|-----------------|------------|---------|-----------|-------------------------------|-------------------------|--------------------------|-----------------------|---------------------|
| LTE Band 71_Uplink frequency band : 663 to 698 MHz |            |                 |            |         |           |                               |                         |                          |                       |                     |
| BW (MHz)                                           | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm/10MHz) | ERP Average (dBm/10MHz) | EIRP Average (dBm/10MHz) | ERP Limit (dBm/10MHz) | Margin (dBm/10M Hz) |
| 20                                                 | 133222     | 673             | QPSK       | 1       | 0         | 23.71                         | 17.56                   | 19.71                    | 34.77                 | -17.21              |
|                                                    |            |                 |            | 1       | 99        | 23.51                         | 17.36                   | 19.51                    | 34.77                 | -17.41              |
|                                                    |            |                 |            | 50      | 25        | 22.78                         | 16.63                   | 18.78                    | 34.77                 | -18.14              |
|                                                    |            |                 |            | 100     | 0         | 22.79                         | 16.64                   | 18.79                    | 34.77                 | -18.13              |
|                                                    | 133297     | 680.5           | QPSK       | 1       | 0         | 23.70                         | 17.55                   | 19.70                    | 34.77                 | -17.22              |
|                                                    |            |                 |            | 1       | 99        | 23.24                         | 17.09                   | 19.24                    | 34.77                 | -17.68              |
|                                                    |            |                 |            | 50      | 25        | 22.66                         | 16.51                   | 18.66                    | 34.77                 | -18.26              |
|                                                    |            |                 |            | 100     | 0         | 22.66                         | 16.51                   | 18.66                    | 34.77                 | -18.26              |
|                                                    | 133372     | 688             | QPSK       | 1       | 0         | 23.75                         | 17.60                   | 19.75                    | 34.77                 | -17.17              |
|                                                    |            |                 |            | 1       | 99        | 23.36                         | 17.21                   | 19.36                    | 34.77                 | -17.56              |
|                                                    |            |                 |            | 50      | 25        | 22.56                         | 16.41                   | 18.56                    | 34.77                 | -18.36              |
|                                                    |            |                 |            | 100     | 0         | 22.56                         | 16.41                   | 18.56                    | 34.77                 | -18.36              |
|                                                    | 133222     | 673             | 16QAM      | 1       | 0         | 22.71                         | 16.56                   | 18.71                    | 34.77                 | -18.21              |
|                                                    |            |                 |            | 1       | 99        | 22.45                         | 16.30                   | 18.45                    | 34.77                 | -18.47              |
|                                                    |            |                 |            | 50      | 25        | 21.62                         | 15.47                   | 17.62                    | 34.77                 | -19.30              |
|                                                    |            |                 |            | 100     | 0         | 21.79                         | 15.64                   | 17.79                    | 34.77                 | -19.13              |
|                                                    | 133297     | 680.5           | 16QAM      | 1       | 0         | 22.61                         | 16.46                   | 18.61                    | 34.77                 | -18.31              |
|                                                    |            |                 |            | 1       | 99        | 22.23                         | 16.08                   | 18.23                    | 34.77                 | -18.69              |
|                                                    |            |                 |            | 50      | 25        | 21.64                         | 15.49                   | 17.64                    | 34.77                 | -19.28              |
|                                                    |            |                 |            | 100     | 0         | 21.62                         | 15.47                   | 17.62                    | 34.77                 | -19.30              |
|                                                    | 133372     | 688             | 16QAM      | 1       | 0         | 22.60                         | 16.45                   | 18.60                    | 34.77                 | -18.32              |
|                                                    |            |                 |            | 1       | 99        | 22.31                         | 16.16                   | 18.31                    | 34.77                 | -18.61              |
|                                                    |            |                 |            | 50      | 25        | 21.49                         | 15.34                   | 17.49                    | 34.77                 | -19.43              |
|                                                    |            |                 |            | 100     | 0         | 21.37                         | 15.22                   | 17.37                    | 34.77                 | -19.55              |
|                                                    | 133222     | 673             | 64QAM      | 1       | 0         | 22.49                         | 16.34                   | 18.49                    | 34.77                 | -18.43              |
|                                                    |            |                 |            | 1       | 99        | 22.31                         | 16.16                   | 18.31                    | 34.77                 | -18.61              |
|                                                    |            |                 |            | 50      | 25        | 21.55                         | 15.40                   | 17.55                    | 34.77                 | -19.37              |
|                                                    |            |                 |            | 100     | 0         | 21.75                         | 15.60                   | 17.75                    | 34.77                 | -19.17              |
|                                                    | 133297     | 680.5           | 64QAM      | 1       | 0         | 22.47                         | 16.32                   | 18.47                    | 34.77                 | -18.45              |
|                                                    |            |                 |            | 1       | 99        | 22.05                         | 15.90                   | 18.05                    | 34.77                 | -18.87              |
|                                                    |            |                 |            | 50      | 25        | 21.52                         | 15.37                   | 17.52                    | 34.77                 | -19.40              |
|                                                    |            |                 |            | 100     | 0         | 21.61                         | 15.46                   | 17.61                    | 34.77                 | -19.31              |
|                                                    | 133372     | 688             | 64QAM      | 1       | 0         | 22.43                         | 16.28                   | 18.43                    | 34.77                 | -18.49              |
|                                                    |            |                 |            | 1       | 99        | 22.25                         | 16.10                   | 18.25                    | 34.77                 | -18.67              |
|                                                    |            |                 |            | 50      | 25        | 21.45                         | 15.30                   | 17.45                    | 34.77                 | -19.47              |
|                                                    |            |                 |            | 100     | 0         | 21.27                         | 15.12                   | 17.27                    | 34.77                 | -19.65              |
|                                                    | 133222     | 673             | 256QAM     | 1       | 0         | 19.22                         | 13.07                   | 15.22                    | 34.77                 | -21.70              |
|                                                    |            |                 |            | 1       | 99        | 19.35                         | 13.20                   | 15.35                    | 34.77                 | -21.57              |
|                                                    |            |                 |            | 50      | 25        | 18.48                         | 12.33                   | 14.48                    | 34.77                 | -22.44              |
|                                                    |            |                 |            | 100     | 0         | 18.31                         | 12.16                   | 14.31                    | 34.77                 | -22.61              |
|                                                    | 133297     | 680.5           | 256QAM     | 1       | 0         | 19.47                         | 13.32                   | 15.47                    | 34.77                 | -21.45              |
|                                                    |            |                 |            | 1       | 99        | 19.41                         | 13.26                   | 15.41                    | 34.77                 | -21.51              |
|                                                    |            |                 |            | 50      | 25        | 18.54                         | 12.39                   | 14.54                    | 34.77                 | -22.38              |
|                                                    |            |                 |            | 100     | 0         | 18.61                         | 12.46                   | 14.61                    | 34.77                 | -22.31              |
|                                                    | 133372     | 688             | 256QAM     | 1       | 0         | 19.50                         | 13.35                   | 15.50                    | 34.77                 | -21.42              |
|                                                    |            |                 |            | 1       | 99        | 19.21                         | 13.06                   | 15.21                    | 34.77                 | -21.71              |
|                                                    |            |                 |            | 50      | 25        | 18.48                         | 12.33                   | 14.48                    | 34.77                 | -22.44              |
|                                                    |            |                 |            | 100     | 0         | 18.50                         | 12.35                   | 14.50                    | 34.77                 | -22.42              |

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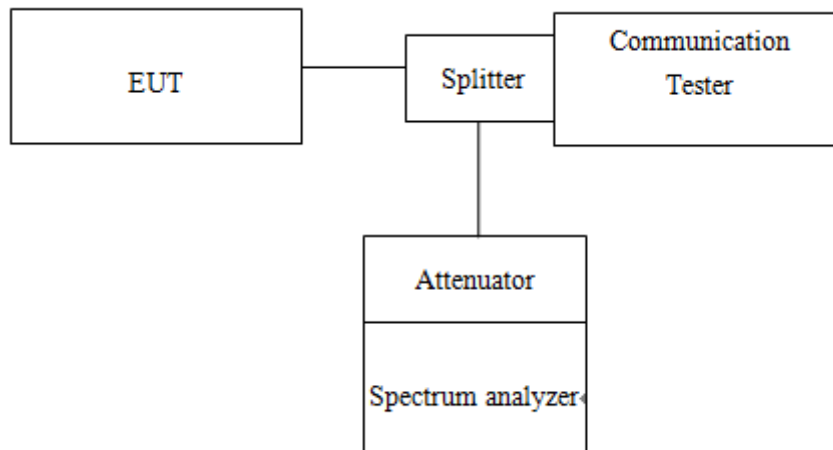
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## 7 OCCUPIED BANDWIDTH MEASUREMENT

### 7.1 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.

### 7.2 Test Set-up



### 7.3 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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## 7.4 Measurement Equipment Used

### 2/3G

| Conducted Emission (measured at antenna port) Test Site |               |              |                |            |            |
|---------------------------------------------------------|---------------|--------------|----------------|------------|------------|
| EQUIPMENT TYPE                                          | MFR           | MODEL NUMBER | SERIAL NUMBER  | LAST CAL.  | CAL DUE.   |
| PXA Spectrum Analyzer                                   | Agilent       | N9030A       | MY53120760     | 04/21/2020 | 04/20/2021 |
| DC Power Supply                                         | Agilent       | E3640A       | MY40000811     | 12/23/2019 | 12/22/2020 |
| Radio Communication Analyzer                            | Anritsu       | MT8815B      | 6200711454     | 04/01/2020 | 03/31/2021 |
| Attenuator                                              | Mini-Circuit  | BW-S10W2+    | 2              | 01/02/2020 | 01/01/2021 |
| DC Block                                                | Mini-Circuits | BLK-18-S+    | 1              | 01/02/2020 | 01/01/2021 |
| Splitter                                                | RF-LAMBAD     | RFLT2W1G18G  | 11-JSPF412-018 | 01/02/2020 | 01/01/2021 |

### 4G

| Conducted Emission (measured at antenna port) Test Site |               |              |                |            |            |
|---------------------------------------------------------|---------------|--------------|----------------|------------|------------|
| EQUIPMENT TYPE                                          | MFR           | MODEL NUMBER | SERIAL NUMBER  | LAST CAL.  | CAL DUE.   |
| PXA Spectrum Analyzer                                   | Agilent       | N9030A       | MY53120760     | 04/21/2020 | 04/20/2021 |
| Radio Communication Analyzer                            | Anritsu       | MT8821C      | 6261786084     | 01/18/2020 | 01/17/2021 |
| Attenuator                                              | Mini-Circuit  | BW-S10W2+    | 2              | 01/02/2020 | 01/01/2021 |
| DC Block                                                | Mini-Circuits | BLK-18-S+    | 1              | 01/02/2020 | 01/01/2021 |
| Splitter                                                | RF-LAMBAD     | RFLT2W1G18G  | 11-JSPF412-018 | 01/02/2020 | 01/01/2021 |

## 7.5 Measurement Result

| Freq. (MHz) | CH  | 99% BW (MHz) |          |          | 26 dB BW (MHz) |          |          |
|-------------|-----|--------------|----------|----------|----------------|----------|----------|
|             |     | GSM 850      | GPRS 850 | EDGE 850 | GSM 850        | GPRS 850 | EDGE 850 |
| 824.2       | 128 | 0.24720      | 0.24436  | 0.24627  | 0.3105         | 0.3176   | 0.3211   |
| 836.6       | 190 | 0.24438      | 0.24512  | 0.24383  | 0.3176         | 0.3225   | 0.3203   |
| 848.8       | 251 | 0.24435      | 0.24497  | 0.24433  | 0.3230         | 0.3178   | 0.3149   |

| Freq. (MHz) | CH  | 99% BW (MHz) |           |           | 26 dB BW (MHz) |           |           |
|-------------|-----|--------------|-----------|-----------|----------------|-----------|-----------|
|             |     | GSM 1900     | GPRS 1900 | EDGE 1900 | GSM 1900       | GPRS 1900 | EDGE 1900 |
| 1850.2      | 512 | 0.24565      | 0.24293   | 0.24019   | 0.3149         | 0.3198    | 0.3159    |
| 1880.0      | 661 | 0.24172      | 0.24593   | 0.24394   | 0.3171         | 0.3144    | 0.3171    |
| 1909.8      | 810 | 0.24670      | 0.23988   | 0.24521   | 0.3172         | 0.3166    | 0.3161    |

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| Freq.<br>(MHz) | CH   | 99% BW (MHz) |         |         | 26 dB BW (MHz) |       |       |
|----------------|------|--------------|---------|---------|----------------|-------|-------|
|                |      | WCDMA        | HSDPA   | HSUPA   | WCDMA          | HSDPA | HSUPA |
|                |      | II           | II      | II      | II             | II    | II    |
| 1852.40        | 9262 | 4.14380      | 4.13010 | 4.13990 | 4.678          | 4.689 | 4.684 |
| 1880.00        | 9400 | 4.13820      | 4.14090 | 4.14060 | 4.687          | 4.706 | 4.673 |
| 1907.60        | 9538 | 4.13450      | 4.12430 | 4.12850 | 4.688          | 4.688 | 4.685 |

| Freq.<br>(MHz) | CH   | 99% BW (MHz) |         |         | 26 dB BW (MHz) |       |       |
|----------------|------|--------------|---------|---------|----------------|-------|-------|
|                |      | WCDMA        | HSDPA   | HSUPA   | WCDMA          | HSDPA | HSUPA |
|                |      | IV           | IV      | IV      | IV             | IV    | IV    |
| 1712.40        | 1312 | 4.14240      | 4.14600 | 4.13280 | 4.691          | 4.690 | 4.682 |
| 1732.60        | 1413 | 4.13840      | 4.14030 | 4.12210 | 4.685          | 4.679 | 4.690 |
| 1752.60        | 1513 | 4.13870      | 4.14970 | 4.13030 | 4.681          | 4.681 | 4.674 |

| Freq.<br>(MHz) | CH   | 99% BW (MHz) |         |         | 26 dB BW (MHz) |       |       |
|----------------|------|--------------|---------|---------|----------------|-------|-------|
|                |      | WCDMA        | HSDPA   | HSUPA   | WCDMA          | HSDPA | HSUPA |
|                |      | V            | V       | V       | V              | V     | V     |
| 826.40         | 4132 | 4.14740      | 4.13410 | 4.14160 | 4.702          | 4.682 | 4.690 |
| 836.60         | 4183 | 4.13060      | 4.13120 | 4.13860 | 4.672          | 4.695 | 4.685 |
| 846.60         | 4233 | 4.13240      | 4.11600 | 4.12770 | 4.682          | 4.668 | 4.674 |

| LTE BAND 2 Channel bandwidth: 1.4MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1850.7                               | 18607 | 1.0940       | 1.0974 | 1.0953 | 1.0871 | 1.243          | 1.237 | 1.243 | 1.229  |
| 1880.0                               | 18900 | 1.0956       | 1.0999 | 1.0962 | 1.0892 | 1.239          | 1.243 | 1.241 | 1.233  |
| 1909.3                               | 19193 | 1.0908       | 1.0983 | 1.0943 | 1.0887 | 1.238          | 1.241 | 1.250 | 1.232  |

| LTE BAND 2 Channel bandwidth: 3MHz |       |              |        |        |        |                |       |       |        |
|------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                    |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1851.5                             | 18615 | 2.6926       | 2.7117 | 2.7037 | 2.7004 | 2.993          | 3.043 | 2.993 | 3.003  |
| 1880.0                             | 18900 | 2.6933       | 2.7108 | 2.7038 | 2.7035 | 2.984          | 3.043 | 2.998 | 3.014  |
| 1908.5                             | 19185 | 2.6935       | 2.7097 | 2.7037 | 2.7047 | 2.982          | 3.033 | 2.993 | 3.005  |

| LTE BAND 2 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                    |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1852.5                             | 18625 | 4.4939       | 4.4902 | 4.5039 | 4.4868 | 4.974          | 4.910 | 4.970 | 4.919  |
| 1880.0                             | 18900 | 4.4898       | 4.4878 | 4.5028 | 4.4857 | 4.996          | 4.923 | 4.961 | 4.914  |
| 1907.5                             | 19175 | 4.4917       | 4.4898 | 4.5008 | 4.4856 | 4.979          | 4.920 | 4.954 | 4.912  |

| LTE BAND 2 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1855.0                              | 18650 | 8.9872       | 8.9567 | 8.9847 | 8.9716 | 9.847          | 9.792 | 9.792 | 9.839  |
| 1880.0                              | 18900 | 9.0045       | 8.9528 | 8.9808 | 8.9678 | 9.826          | 9.796 | 9.784 | 9.749  |
| 1905.0                              | 19150 | 9.0053       | 8.9633 | 8.9975 | 8.9543 | 9.818          | 9.810 | 9.850 | 9.717  |

| LTE BAND 2 Channel bandwidth: 15MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1857.5                              | 18675 | 13.436       | 13.466 | 13.473 | 13.462 | 14.26          | 14.66 | 14.81 | 14.62  |
| 1880.0                              | 18900 | 13.501       | 13.475 | 13.479 | 13.450 | 14.67          | 14.68 | 14.70 | 14.63  |
| 1902.5                              | 19125 | 13.468       | 13.449 | 13.459 | 13.448 | 14.66          | 14.63 | 14.75 | 14.72  |

| LTE BAND 2 Channel bandwidth: 20MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1860.0                              | 18700 | 17.906       | 17.937 | 17.922 | 17.933 | 19.46          | 19.46 | 19.38 | 19.34  |
| 1880.0                              | 18900 | 17.947       | 17.968 | 17.939 | 17.911 | 19.51          | 19.53 | 19.53 | 19.26  |
| 1900.0                              | 19100 | 17.928       | 17.954 | 17.929 | 17.924 | 19.41          | 19.48 | 19.48 | 19.35  |

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| LTE BAND 4 Channel bandwidth: 1.4MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1710.7                               | 19957 | 1.0951       | 1.0996 | 1.0928 | 1.0889 | 1.233          | 1.229 | 1.242 | 1.231  |
| 1732.5                               | 20175 | 1.0929       | 1.1001 | 1.0959 | 1.0893 | 1.240          | 1.237 | 1.244 | 1.233  |
| 1754.3                               | 20393 | 1.0958       | 1.1001 | 1.0994 | 1.0884 | 1.235          | 1.233 | 1.243 | 1.235  |

| LTE BAND 4 Channel bandwidth: 3MHz |       |              |        |        |        |                |       |       |        |
|------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                    |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1711.5                             | 19965 | 2.6939       | 2.6950 | 2.7021 | 2.6980 | 2.981          | 3.007 | 3.020 | 3.008  |
| 1732.5                             | 20175 | 2.6980       | 2.6984 | 2.7024 | 2.7051 | 2.972          | 3.009 | 3.001 | 3.017  |
| 1753.5                             | 20385 | 2.6984       | 2.6989 | 2.7007 | 2.6983 | 2.974          | 2.999 | 3.003 | 3.006  |

| LTE BAND 4 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                    |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1712.5                             | 19957 | 4.4901       | 4.4873 | 4.5039 | 4.4871 | 4.976          | 4.923 | 4.961 | 4.922  |
| 1732.5                             | 20175 | 4.4915       | 4.4845 | 4.5009 | 4.4855 | 4.988          | 4.922 | 4.953 | 4.912  |
| 1752.5                             | 20375 | 4.4941       | 4.4874 | 4.4997 | 4.4868 | 4.972          | 4.920 | 4.977 | 4.917  |

| LTE BAND 4 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1715.0                              | 20000 | 8.9792       | 8.9507 | 8.9785 | 8.9795 | 9.842          | 9.829 | 9.830 | 9.784  |
| 1732.5                              | 20175 | 9.0018       | 8.9499 | 8.9796 | 8.9708 | 9.762          | 9.811 | 9.824 | 9.702  |
| 1750.0                              | 20350 | 9.0072       | 8.9536 | 8.9994 | 8.9590 | 9.759          | 9.790 | 9.839 | 9.714  |

| LTE BAND 4 Channel bandwidth: 15MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1717.5                              | 20025 | 13.465       | 13.462 | 13.468 | 13.471 | 14.70          | 14.68 | 14.75 | 14.61  |
| 1732.5                              | 20175 | 13.502       | 13.468 | 13.467 | 13.452 | 14.63          | 14.63 | 14.74 | 14.62  |
| 1747.5                              | 20325 | 13.477       | 13.466 | 13.487 | 13.448 | 14.74          | 14.63 | 14.67 | 14.58  |

| LTE BAND 4 Channel bandwidth: 20MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1720.0                              | 20050 | 17.944       | 17.942 | 17.932 | 17.921 | 19.44          | 19.33 | 19.45 | 19.31  |
| 1732.5                              | 20175 | 17.925       | 17.910 | 17.903 | 17.915 | 19.40          | 19.31 | 19.50 | 19.41  |
| 1745.0                              | 20300 | 17.915       | 17.902 | 17.922 | 17.913 | 19.41          | 19.34 | 19.50 | 19.28  |

| LTE BAND 5 Channel bandwidth: 1.4MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 824.7                                | 20407 | 1.0956       | 1.0971 | 1.0948 | 1.0880 | 1.236          | 1.237 | 1.250 | 1.231  |
| 836.5                                | 20525 | 1.0920       | 1.0986 | 1.0948 | 1.0872 | 1.240          | 1.235 | 1.241 | 1.226  |
| 848.3                                | 20643 | 1.0940       | 1.0962 | 1.0964 | 1.0882 | 1.236          | 1.237 | 1.251 | 1.229  |

| LTE BAND 5 Channel bandwidth: 3MHz |       |              |        |        |        |                |       |       |        |
|------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                    |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 825.5                              | 20415 | 2.6938       | 2.7131 | 2.7018 | 2.7020 | 2.984          | 3.046 | 2.991 | 3.015  |
| 836.5                              | 20525 | 2.6972       | 2.7080 | 2.6976 | 2.7054 | 2.997          | 3.042 | 2.988 | 3.008  |
| 847.5                              | 20635 | 2.6954       | 2.7085 | 2.6964 | 2.7048 | 2.994          | 3.044 | 3.005 | 3.022  |

| LTE BAND 5 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                    |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 826.5                              | 20425 | 4.4917       | 4.4845 | 4.4966 | 4.4882 | 4.997          | 4.909 | 4.967 | 4.910  |
| 836.5                              | 20525 | 4.4885       | 4.4810 | 4.4889 | 4.4831 | 4.968          | 4.905 | 4.966 | 4.906  |
| 846.5                              | 20625 | 4.4879       | 4.4760 | 4.4905 | 4.4854 | 4.973          | 4.903 | 4.935 | 4.902  |

| LTE BAND 5 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 829.0                               | 20450 | 9.0134       | 8.9620 | 8.9981 | 8.9767 | 9.838          | 9.766 | 9.865 | 9.809  |
| 836.5                               | 20525 | 8.9838       | 8.9432 | 8.9617 | 8.9534 | 9.738          | 9.758 | 9.747 | 9.768  |
| 844.0                               | 20600 | 8.9959       | 8.9406 | 8.9730 | 8.9533 | 9.816          | 9.767 | 9.822 | 9.762  |

| LTE BAND 7 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                    |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2502.5                             | 20775 | 4.4834       | 4.4863 | 4.5048 | 4.4885 | 4.813          | 4.932 | 4.990 | 4.912  |
| 2535.0                             | 21100 | 4.4889       | 4.4859 | 4.4981 | 4.4914 | 4.988          | 4.924 | 4.952 | 4.918  |
| 2567.5                             | 21425 | 4.4954       | 4.4859 | 4.4981 | 4.4903 | 4.984          | 4.938 | 4.944 | 4.910  |

| LTE BAND 7 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2505.0                              | 20800 | 9.0049       | 8.9692 | 8.9931 | 8.9844 | 9.839          | 9.842 | 9.815 | 9.748  |
| 2535.0                              | 21100 | 8.9882       | 8.9506 | 8.9985 | 8.9635 | 9.797          | 9.782 | 9.768 | 9.724  |
| 2565.0                              | 21400 | 8.9867       | 8.9512 | 8.9753 | 8.9644 | 9.805          | 9.790 | 9.850 | 9.766  |

| LTE BAND 7 Channel bandwidth: 15MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2507.5                              | 20825 | 13.463       | 13.461 | 13.467 | 13.470 | 14.70          | 14.71 | 14.75 | 14.65  |
| 2535.0                              | 21100 | 13.471       | 13.477 | 13.466 | 13.457 | 14.72          | 14.73 | 14.76 | 14.74  |
| 2562.5                              | 21375 | 13.467       | 13.473 | 13.476 | 13.450 | 14.69          | 14.69 | 14.77 | 14.58  |

| LTE BAND 7 Channel bandwidth: 20MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2510.0                              | 20850 | 17.920       | 17.914 | 17.923 | 17.941 | 19.56          | 19.39 | 19.44 | 19.36  |
| 2535.0                              | 21100 | 17.929       | 17.910 | 17.927 | 17.925 | 19.47          | 19.46 | 19.48 | 19.36  |
| 2560.0                              | 21350 | 17.948       | 17.911 | 17.932 | 17.883 | 19.45          | 19.39 | 19.47 | 19.36  |

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| LTE BAND 12 Channel bandwidth: 1.4MHz |       |              |        |        |        |                |       |       |        |
|---------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                       |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 699.7                                 | 23017 | 1.0942       | 1.0984 | 1.0952 | 1.0899 | 1.233          | 1.237 | 1.242 | 1.230  |
| 707.5                                 | 23095 | 1.0908       | 1.0983 | 1.0959 | 1.0886 | 1.241          | 1.239 | 1.249 | 1.232  |
| 715.3                                 | 23173 | 1.0931       | 1.0983 | 1.0968 | 1.0894 | 1.240          | 1.240 | 1.248 | 1.231  |
|                                       |       |              |        |        |        |                |       |       |        |
| LTE BAND 12 Channel bandwidth: 5MHz   |       |              |        |        |        |                |       |       |        |
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                       |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 701.5                                 | 23035 | 4.4911       | 4.4853 | 4.4991 | 4.4841 | 4.974          | 4.897 | 4.949 | 4.898  |
| 707.5                                 | 23095 | 4.4915       | 4.4810 | 4.4942 | 4.4843 | 4.958          | 4.902 | 4.949 | 4.919  |
| 713.5                                 | 23155 | 4.4910       | 4.4814 | 4.4983 | 4.4900 | 4.965          | 4.902 | 4.946 | 4.915  |

| LTE BAND 12 Channel bandwidth: 3MHz  |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 700.5                                | 23025 | 2.6930       | 2.7119 | 2.7032 | 2.7030 | 2.997          | 3.052 | 2.994 | 3.011  |
| 707.5                                | 23095 | 2.6938       | 2.7149 | 2.7047 | 2.6973 | 2.982          | 3.039 | 3.005 | 3.008  |
| 714.5                                | 23165 | 2.6957       | 2.7160 | 2.6970 | 2.6961 | 2.988          | 3.035 | 2.994 | 3.011  |
|                                      |       |              |        |        |        |                |       |       |        |
| LTE BAND 12 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 704.0                                | 23060 | 8.9696       | 8.9487 | 8.9879 | 8.9680 | 9.771          | 9.750 | 9.813 | 9.780  |
| 707.5                                | 23095 | 8.9997       | 8.9612 | 8.9807 | 8.9672 | 9.796          | 9.842 | 9.823 | 9.698  |
| 711.0                                | 23130 | 8.9953       | 8.9469 | 8.9805 | 8.9583 | 9.792          | 9.799 | 9.815 | 9.761  |

| LTE BAND 13 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 779.5                               | 23205 | 4.4842       | 4.4847 | 4.4926 | 4.4892 | 4.957          | 4.915 | 4.958 | 4.898  |
| 782.0                               | 23230 | 4.4839       | 4.4815 | 4.4944 | 4.4808 | 4.973          | 4.946 | 4.942 | 4.923  |
| 784.5                               | 23255 | 4.5003       | 4.4973 | 4.5040 | 4.4934 | 5.001          | 4.953 | 4.953 | 4.910  |

| LTE BAND 13 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 782.0                                | 23230 | 8.9649       | 8.9345 | 8.9687 | 8.9291 | 9.741          | 9.766 | 9.803 | 9.739  |

| LTE BAND 17 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 706.5                               | 23755 | 4.4870       | 4.4860 | 4.5264 | 4.4829 | 4.964          | 4.901 | 4.960 | 4.904  |
| 710.0                               | 23790 | 4.4894       | 4.4853 | 4.5029 | 4.4884 | 4.977          | 4.910 | 4.947 | 4.906  |
| 713.5                               | 23825 | 4.4931       | 4.5286 | 4.4977 | 4.4870 | 4.978          | 4.815 | 4.953 | 4.893  |

| LTE BAND 17 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 709.0                                | 23780 | 8.9810       | 8.9374 | 8.9718 | 8.9551 | 9.786          | 9.785 | 9.795 | 9.726  |
| 710.0                                | 23790 | 8.9890       | 8.9552 | 8.9725 | 8.9503 | 9.800          | 9.794 | 9.799 | 9.777  |
| 711.0                                | 23800 | 8.9928       | 8.9545 | 8.9882 | 8.9696 | 9.784          | 9.762 | 9.828 | 9.778  |

| LTE BAND 25 Channel bandwidth: 1.4MHz |       |              |        |        |        |                |       |       |        |
|---------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                       |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1850.7                                | 26047 | 1.0951       | 1.1001 | 1.0946 | 1.0877 | 1.244          | 1.236 | 1.239 | 1.235  |
| 1882.5                                | 26365 | 1.0944       | 1.0983 | 1.0944 | 1.0882 | 1.241          | 1.242 | 1.247 | 1.234  |
| 1914.3                                | 26683 | 1.0961       | 1.1013 | 1.0947 | 1.0885 | 1.239          | 1.242 | 1.236 | 1.229  |

| LTE BAND 25 Channel bandwidth: 3MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1851.5                              | 26055 | 2.6938       | 2.7145 | 2.7008 | 2.7005 | 2.980          | 3.022 | 2.988 | 3.001  |
| 1882.5                              | 26365 | 2.6938       | 2.7091 | 2.7055 | 2.7040 | 2.987          | 3.030 | 2.990 | 3.009  |
| 1913.5                              | 26675 | 2.6942       | 2.7142 | 2.7003 | 2.7042 | 2.989          | 3.042 | 2.996 | 3.028  |

| LTE BAND 25 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1852.5                              | 26065 | 4.4904       | 4.4867 | 4.5039 | 4.4848 | 4.970          | 4.905 | 4.945 | 4.909  |
| 1882.5                              | 26365 | 4.4933       | 4.4805 | 4.4962 | 4.4842 | 4.981          | 4.933 | 4.956 | 4.898  |
| 1912.5                              | 26665 | 4.4904       | 4.4863 | 4.5025 | 4.4876 | 4.975          | 4.899 | 4.952 | 4.921  |

| LTE BAND 25 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1855.0                               | 26090 | 8.9903       | 8.9643 | 8.9575 | 8.9748 | 9.800          | 9.806 | 9.804 | 9.776  |
| 1882.5                               | 26365 | 8.9973       | 8.9583 | 8.9894 | 8.9570 | 9.805          | 9.757 | 9.840 | 9.778  |
| 1910.0                               | 26640 | 8.9998       | 8.9541 | 8.9739 | 8.9593 | 9.819          | 9.774 | 9.794 | 9.811  |

| LTE BAND 25 Channel bandwidth: 15MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1857.5                               | 26115 | 13.468       | 13.473 | 13.484 | 13.435 | 14.64          | 14.59 | 14.80 | 14.66  |
| 1882.5                               | 26365 | 13.470       | 13.468 | 13.478 | 13.447 | 14.69          | 14.65 | 14.75 | 14.75  |
| 1907.5                               | 26615 | 13.458       | 13.469 | 13.473 | 13.445 | 14.65          | 14.66 | 14.82 | 14.55  |

| LTE BAND 25 Channel bandwidth: 20MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1860.0                               | 26140 | 17.896       | 17.912 | 17.932 | 17.944 | 19.34          | 19.41 | 19.45 | 19.37  |
| 1882.5                               | 26365 | 17.953       | 17.929 | 17.938 | 17.924 | 19.36          | 19.41 | 19.36 | 19.38  |
| 1905.0                               | 26590 | 17.911       | 17.886 | 17.911 | 17.898 | 19.37          | 19.37 | 19.42 | 19.37  |

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| LTE BAND 26 Channel bandwidth: 1.4MHz |       |              |        |        |        |                |       |       |        |
|---------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                       |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 824.7                                 | 26797 | 1.0934       | 1.0992 | 1.0979 | 1.0893 | 1.243          | 1.236 | 1.244 | 1.232  |
| 836.5                                 | 26915 | 1.0938       | 1.0992 | 1.0976 | 1.0888 | 1.233          | 1.235 | 1.243 | 1.231  |
| 848.3                                 | 27033 | 1.0944       | 1.0988 | 1.0960 | 1.0892 | 1.235          | 1.238 | 1.245 | 1.231  |

| LTE BAND 26 Channel bandwidth: 3MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 825.5                               | 26805 | 2.6927       | 2.7119 | 2.7011 | 2.6988 | 2.989          | 3.005 | 3.002 | 3.027  |
| 836.5                               | 26915 | 2.6947       | 2.7125 | 2.7035 | 2.6975 | 2.997          | 2.996 | 3.002 | 3.024  |
| 847.5                               | 27025 | 2.6962       | 2.7132 | 2.7017 | 2.7025 | 3.003          | 3.038 | 2.974 | 3.018  |

| LTE BAND 26 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 826.5                               | 26815 | 4.4915       | 4.4810 | 4.5008 | 4.4818 | 4.981          | 4.946 | 4.931 | 4.909  |
| 836.5                               | 26915 | 4.4913       | 4.4872 | 4.4979 | 4.4851 | 4.975          | 4.897 | 4.944 | 4.920  |
| 846.5                               | 27015 | 4.4863       | 4.4836 | 4.4969 | 4.4859 | 4.997          | 4.911 | 4.945 | 4.904  |

| LTE BAND 26 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 829.0                                | 26840 | 8.9817       | 8.9539 | 8.9859 | 8.9746 | 9.800          | 9.791 | 9.852 | 9.820  |
| 836.5                                | 26915 | 8.9691       | 8.9329 | 8.9669 | 8.9511 | 9.784          | 9.778 | 9.826 | 9.675  |
| 844.0                                | 26990 | 9.0138       | 8.9578 | 8.9966 | 8.9567 | 9.761          | 9.798 | 9.826 | 9.790  |

| LTE BAND 26 Channel bandwidth: 15MHz |       |              |        |        |        |                |        |        |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|--------|--------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |        |        |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM  | 64QAM  | 256QAM |
| 831.5                                | 26865 | 13.483       | 13.453 | 13.463 | 13.466 | 14.650         | 14.823 | 14.641 | 14.599 |
| 836.5                                | 26915 | 13.462       | 13.425 | 13.436 | 13.446 | 14.563         | 14.558 | 14.756 | 14.590 |
| 841.5                                | 26965 | 13.482       | 13.457 | 13.455 | 13.427 | 14.596         | 14.632 | 14.569 | 14.609 |

| LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz |       |              |        |        |        |                |       |       |        |
|----------------------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                                     | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                                    |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 814.7                                              | 26697 | 1.0920       | 1.0997 | 1.0964 | 1.0896 | 1.239          | 1.234 | 1.248 | 1.232  |
| 819.0                                              | 26740 | 1.0925       | 1.0997 | 1.0960 | 1.0883 | 1.226          | 1.237 | 1.250 | 1.229  |
| 823.3                                              | 26783 | 1.0948       | 1.0973 | 1.0959 | 1.0881 | 1.237          | 1.241 | 1.247 | 1.231  |

| LTE BAND 26 for part 90S Channel bandwidth: 3MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                                   | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                                  |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 815.5                                            | 26705 | 2.6933       | 2.7088 | 2.6989 | 2.7015 | 2.994          | 3.045 | 2.990 | 3.019  |
| 819.0                                            | 26740 | 2.6961       | 2.7094 | 2.7013 | 2.7029 | 2.977          | 3.038 | 2.990 | 3.008  |
| 822.5                                            | 26775 | 2.6976       | 2.7066 | 2.7015 | 2.7048 | 2.973          | 3.036 | 2.970 | 2.995  |

| LTE BAND 26 for part 90S Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                                   | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                                  |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 816.5                                            | 26715 | 4.4919       | 4.4882 | 4.5017 | 4.4849 | 4.993          | 4.924 | 4.937 | 4.921  |
| 819.0                                            | 26740 | 4.4904       | 4.4868 | 4.4946 | 4.4821 | 4.961          | 4.916 | 4.963 | 4.889  |
| 821.5                                            | 26765 | 4.4902       | 4.4820 | 4.5023 | 4.4856 | 4.988          | 4.888 | 4.941 | 4.919  |

| LTE BAND 26 for part 90S Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|---------------------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                                    | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                                   |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 819.0                                             | 26740 | 8.9722       | 8.9951 | 8.9448 | 8.9581 | 9.796          | 9.805 | 9.769 | 9.721  |

| LTE BAND 30 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2307.5                              | 27685 | 4.4977       | 4.4885 | 4.4952 | 4.4878 | 5.012          | 4.927 | 4.970 | 4.914  |
| 2310.0                              | 27710 | 4.4935       | 4.4934 | 4.5005 | 4.4864 | 4.991          | 4.936 | 4.953 | 4.926  |
| 2312.5                              | 27735 | 4.4936       | 4.4934 | 4.5019 | 4.4892 | 4.988          | 4.933 | 4.961 | 4.911  |

| LTE BAND 30 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2310.0                               | 27710 | 8.9975       | 8.9521 | 8.9873 | 8.9576 | 9.807          | 9.770 | 9.827 | 9.737  |

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| LTE BAND 38 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2572.5                              | 37775 | 4.4989       | 4.4949 | 4.5074 | 4.4756 | 4.986          | 4.931 | 4.941 | 4.877  |
| 2595.0                              | 38000 | 4.4980       | 4.4975 | 4.5045 | 4.4792 | 4.975          | 4.922 | 4.974 | 4.914  |
| 2617.5                              | 38225 | 4.5048       | 4.5204 | 4.5071 | 4.4753 | 4.963          | 4.984 | 4.985 | 4.876  |

| LTE BAND 38 Channel bandwidth: 15MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2577.5                               | 37825 | 13.475       | 13.484 | 13.470 | 13.468 | 14.58          | 14.61 | 14.66 | 14.77  |
| 2595.0                               | 38000 | 13.475       | 13.487 | 13.481 | 13.465 | 14.53          | 14.56 | 14.70 | 14.48  |
| 2612.5                               | 38175 | 13.464       | 13.490 | 13.482 | 13.469 | 14.56          | 14.60 | 14.63 | 14.60  |

| LTE BAND 41 Channel bandwidth: 5MHz |       |              |        |        |        |                |       |       |        |
|-------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2498.5                              | 39675 | 4.4953       | 4.4942 | 4.5127 | 4.4728 | 4.972          | 4.933 | 4.958 | 4.891  |
| 2593.0                              | 40620 | 4.4955       | 4.4911 | 4.5070 | 4.4756 | 4.976          | 4.924 | 4.975 | 4.892  |
| 2687.5                              | 41565 | 4.4947       | 4.4942 | 4.5145 | 4.4729 | 4.955          | 4.941 | 4.954 | 4.894  |

| LTE BAND 41 Channel bandwidth: 15MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2503.5                               | 39725 | 13.483       | 13.476 | 13.494 | 13.466 | 14.64          | 14.57 | 14.66 | 14.70  |
| 2593.0                               | 40620 | 13.489       | 13.468 | 13.496 | 13.476 | 14.67          | 14.60 | 14.67 | 14.72  |
| 2682.5                               | 41515 | 13.463       | 13.453 | 13.471 | 13.461 | 14.60          | 14.68 | 14.63 | 14.47  |

| LTE BAND 66 Channel bandwidth: 1.4MHz |        |              |        |        |        |                |       |       |        |
|---------------------------------------|--------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                        | CH     | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                       |        | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1710.7                                | 131979 | 1.0959       | 1.0978 | 1.0964 | 1.0893 | 1.241          | 1.241 | 1.246 | 1.237  |
| 1745.0                                | 132322 | 1.0950       | 1.1002 | 1.0962 | 1.0893 | 1.235          | 1.244 | 1.245 | 1.232  |
| 1779.3                                | 132665 | 1.0920       | 1.1009 | 1.0954 | 1.0896 | 1.236          | 1.235 | 1.247 | 1.230  |

| LTE BAND 66 Channel bandwidth: 5MHz |        |              |        |        |        |                |       |       |        |
|-------------------------------------|--------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH     | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |        | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1712.5                              | 131997 | 4.4911       | 4.4868 | 4.4982 | 4.4864 | 4.978          | 4.921 | 4.937 | 4.894  |
| 1745.0                              | 132322 | 4.4908       | 4.4856 | 4.4989 | 4.4885 | 4.977          | 4.911 | 4.969 | 4.914  |
| 1777.5                              | 132647 | 4.4891       | 4.4877 | 4.5011 | 4.4877 | 4.965          | 4.902 | 4.963 | 4.912  |

| LTE BAND 66 Channel bandwidth: 15MHz |        |              |        |        |        |                |       |       |        |
|--------------------------------------|--------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |        | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1717.5                               | 132047 | 13.466       | 13.474 | 13.472 | 13.457 | 14.65          | 14.64 | 14.69 | 14.59  |
| 1745.0                               | 132322 | 13.468       | 13.467 | 13.466 | 13.446 | 14.70          | 14.61 | 14.69 | 14.62  |
| 1772.5                               | 132597 | 13.459       | 13.457 | 13.463 | 13.444 | 14.63          | 14.64 | 14.70 | 14.54  |

| LTE BAND 38 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2575.0                               | 37800 | 8.9818       | 8.9724 | 8.9794 | 8.9718 | 9.768          | 9.786 | 9.807 | 9.777  |
| 2595.0                               | 38000 | 8.9707       | 8.9781 | 8.9729 | 8.9719 | 9.748          | 9.809 | 9.819 | 9.701  |
| 2615.0                               | 38200 | 8.9735       | 8.9753 | 8.9601 | 8.9713 | 9.766          | 9.732 | 9.779 | 9.741  |

| LTE BAND 38 Channel bandwidth: 20MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2580.0                               | 37850 | 17.928       | 17.880 | 17.905 | 17.871 | 19.42          | 19.31 | 19.34 | 19.34  |
| 2595.0                               | 38000 | 17.935       | 17.893 | 17.909 | 17.906 | 19.52          | 19.25 | 19.50 | 19.28  |
| 2610.0                               | 38150 | 17.931       | 17.904 | 17.900 | 17.894 | 19.52          | 19.23 | 19.42 | 19.25  |

| LTE BAND 41 Channel bandwidth: 10MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2501.0                               | 39700 | 8.9768       | 8.9613 | 8.9815 | 8.9736 | 9.705          | 9.753 | 9.788 | 9.731  |
| 2593.0                               | 40620 | 8.9742       | 8.9622 | 8.9754 | 8.9709 | 9.721          | 9.768 | 9.750 | 9.706  |
| 2685.0                               | 41540 | 8.9661       | 8.9635 | 8.9831 | 8.9707 | 9.762          | 9.734 | 9.805 | 9.789  |

| LTE BAND 41 Channel bandwidth: 20MHz |       |              |        |        |        |                |       |       |        |
|--------------------------------------|-------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 2506.0                               | 39750 | 17.920       | 17.880 | 17.880 | 17.882 | 19.46          | 19.33 | 19.46 | 19.23  |
| 2593.0                               | 40620 | 17.932       | 17.889 | 0.000  | 17.900 | 19.53          | 19.28 | 19.33 | 19.29  |
| 2680.0                               | 41490 | 17.888       | 17.861 | 17.868 | 17.883 | 19.38          | 19.30 | 19.35 | 19.13  |

| LTE BAND 66 Channel bandwidth: 3MHz |        |              |        |        |        |                |       |       |        |
|-------------------------------------|--------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                      | CH     | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                     |        | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1711.5                              | 131987 | 2.6965       | 2.7152 | 2.7032 | 2.6988 | 2.985          | 3.046 | 3.012 | 3.024  |
| 1745.0                              | 132322 | 2.6921       | 2.7068 | 2.6999 | 2.7027 | 2.979          | 3.013 | 2.982 | 3.002  |
| 1778.5                              | 132657 | 2.6957       | 2.7158 | 2.7038 | 2.7034 | 2.977          | 3.032 | 3.006 | 3.011  |

| LTE BAND 66 Channel bandwidth: 10MHz |        |              |        |        |        |                |       |       |        |
|--------------------------------------|--------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |        | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1715.0                               | 132022 | 8.9927       | 8.9541 | 8.9843 | 8.9577 | 9.806          | 9.797 | 9.777 | 9.744  |
| 1745.0                               | 132322 | 8.9825       | 8.9555 | 8.9822 | 8.9684 | 9.790          | 9.811 | 9.790 | 9.772  |
| 1775.0                               | 132622 | 9.0112       | 8.9574 | 8.9708 | 8.9550 | 9.832          | 9.754 | 9.836 | 9.797  |

| LTE BAND 66 Channel bandwidth: 20MHz |        |              |        |        |        |                |       |       |        |
|--------------------------------------|--------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |        | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 1720.0                               | 132072 | 17.936       | 17.929 | 17.936 | 17.924 | 19.50          | 19.35 | 19.56 | 19.25  |
| 1745.0                               | 132322 | 17.920       | 17.922 | 17.923 | 17.916 | 19.49          | 19.41 | 19.41 | 19.44  |
| 1770.0                               | 132572 | 17.932       | 17.929 | 17.947 | 17.925 | 19.51          | 19.38 | 19.46 | 19.37  |

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| LTE BAND 71 Channel bandwidth: 5MHz  |        |              |        |        |        |                |       |       |        |
|--------------------------------------|--------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |        | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 665.5                                | 133147 | 4.4922       | 4.4838 | 4.4933 | 4.4864 | 4.990          | 4.936 | 4.946 | 4.902  |
| 680.5                                | 133297 | 4.4879       | 4.4870 | 4.5000 | 4.4908 | 4.963          | 4.923 | 4.968 | 4.903  |
| 695.5                                | 133447 | 4.4850       | 4.4843 | 4.4951 | 4.4900 | 4.983          | 4.907 | 4.962 | 4.919  |
|                                      |        |              |        |        |        |                |       |       |        |
| LTE BAND 71 Channel bandwidth: 15MHz |        |              |        |        |        |                |       |       |        |
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |        | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 670.5                                | 133197 | 13.494       | 13.495 | 13.463 | 13.477 | 14.66          | 14.55 | 14.70 | 14.61  |
| 680.5                                | 133297 | 13.465       | 13.445 | 13.457 | 13.442 | 14.73          | 14.65 | 14.57 | 14.67  |
| 690.5                                | 133397 | 13.463       | 13.461 | 13.467 | 13.455 | 14.77          | 14.60 | 14.75 | 14.68  |

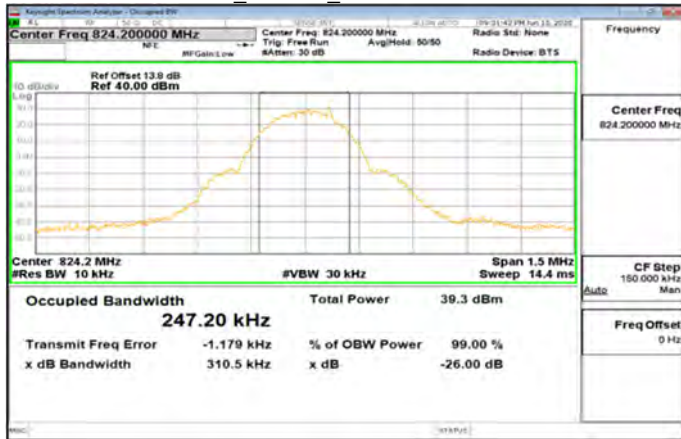
| LTE BAND 71 Channel bandwidth: 10MHz |        |              |        |        |        |                |       |       |        |
|--------------------------------------|--------|--------------|--------|--------|--------|----------------|-------|-------|--------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |        | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 688.0                                | 133172 | 9.0063       | 8.9652 | 8.9860 | 8.9643 | 9.853          | 9.817 | 9.809 | 9.701  |
| 680.5                                | 133297 | 8.9867       | 8.9501 | 8.9758 | 8.9496 | 9.845          | 9.805 | 9.815 | 9.818  |
| 693.0                                | 133422 | 8.9816       | 8.9524 | 8.9868 | 8.9557 | 9.782          | 9.777 | 9.834 | 9.774  |
|                                      |        |              |        |        |        |                |       |       |        |
| LTE BAND 71 Channel bandwidth: 20MHz |        |              |        |        |        |                |       |       |        |
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz) |        |        |        | 26 dB BW (MHz) |       |       |        |
|                                      |        | QPSK         | 16QAM  | 64QAM  | 256QAM | QPSK           | 16QAM | 64QAM | 256QAM |
| 673.0                                | 133222 | 17.915       | 17.898 | 17.921 | 17.909 | 19.54          | 19.34 | 19.46 | 19.32  |
| 680.5                                | 133297 | 17.881       | 17.871 | 17.880 | 17.879 | 19.50          | 19.33 | 19.34 | 19.36  |
| 688.0                                | 133372 | 17.927       | 17.914 | 17.903 | 17.896 | 19.40          | 19.33 | 19.38 | 19.28  |

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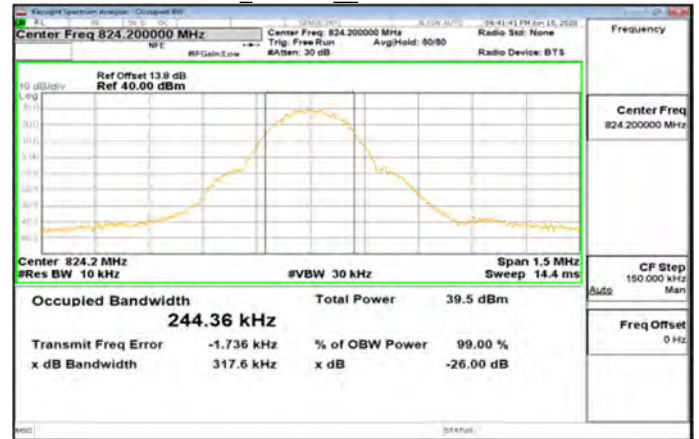
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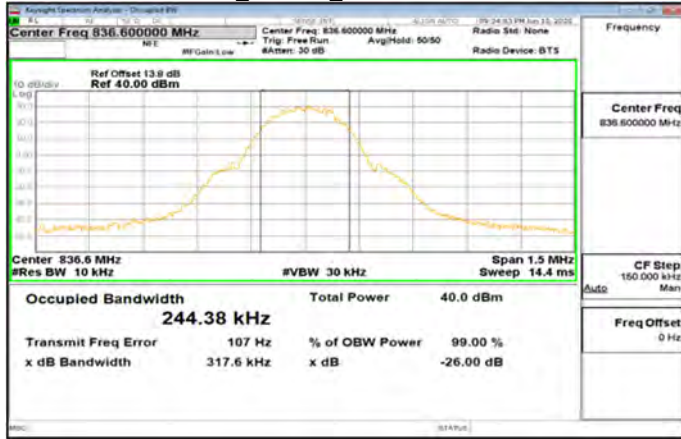
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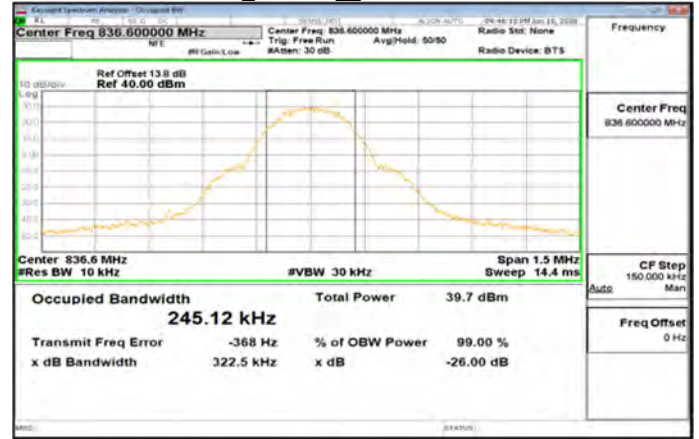
GPRS 850MHz\_LowCH128-824.2



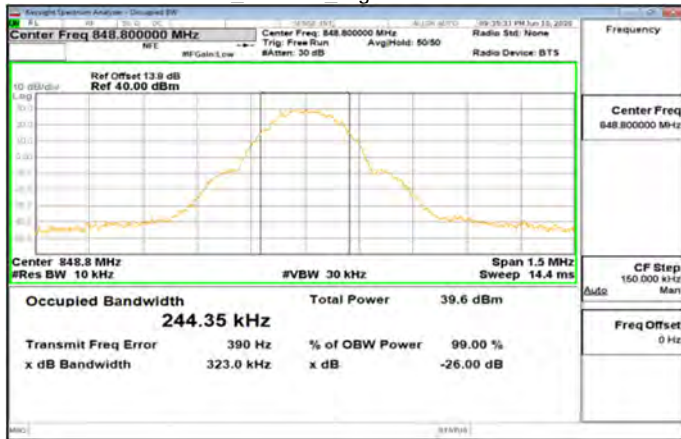
GSM 850MHz\_MidCH190-836.6



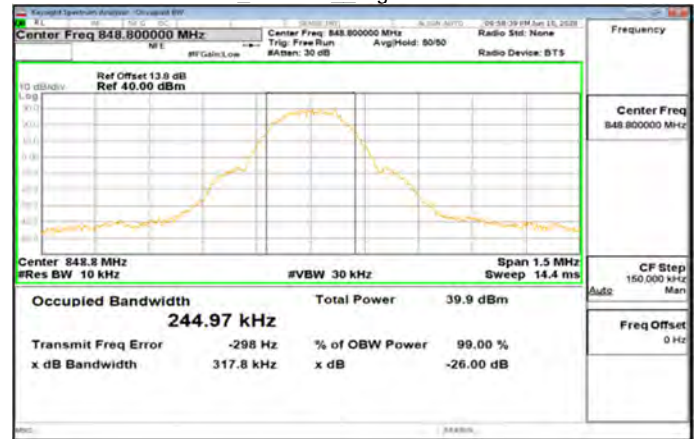
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GSM 850MHz\_HighCH251-848.8



GPRS 850MHz\_HighCH251-848.8

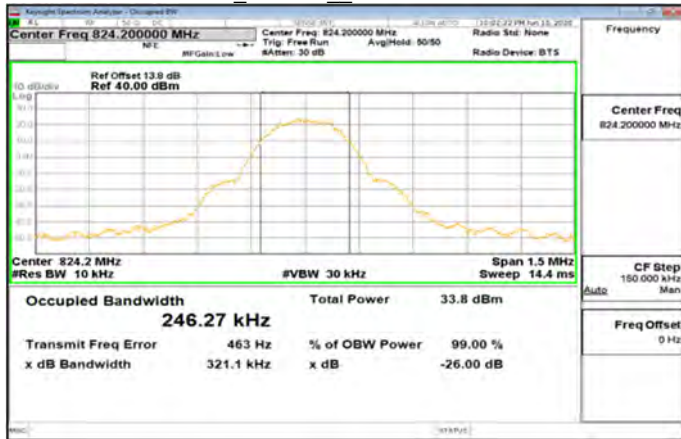


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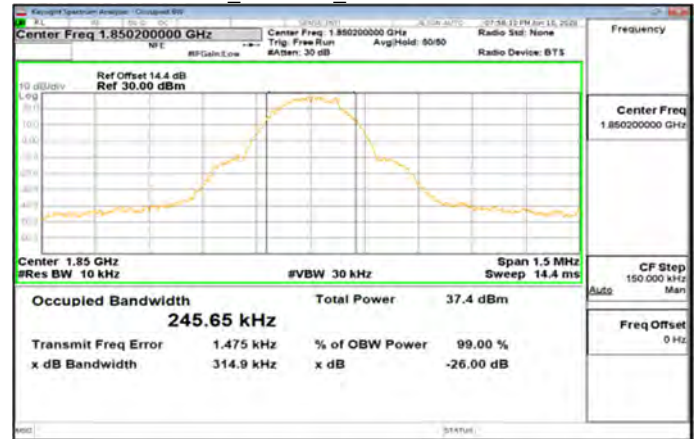
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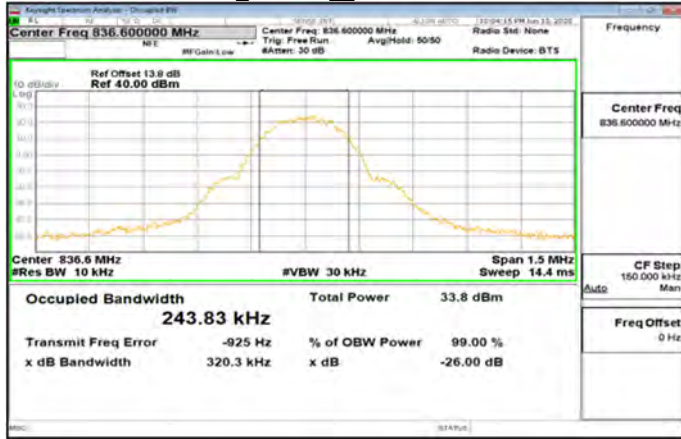
EDGE 850MHz LowCH128-824.2



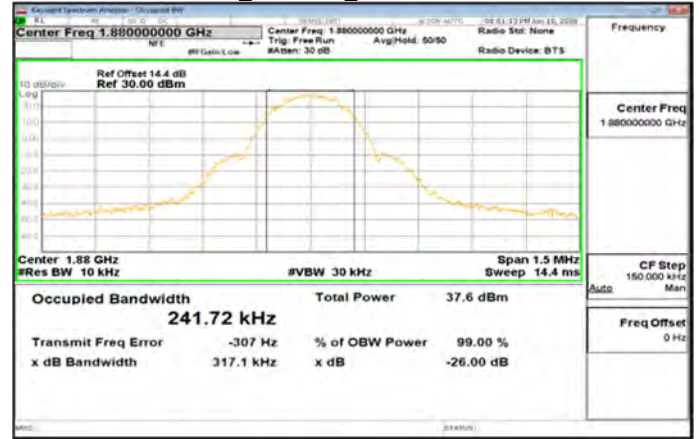
GSM 1900MHz LowCH512-1850.2



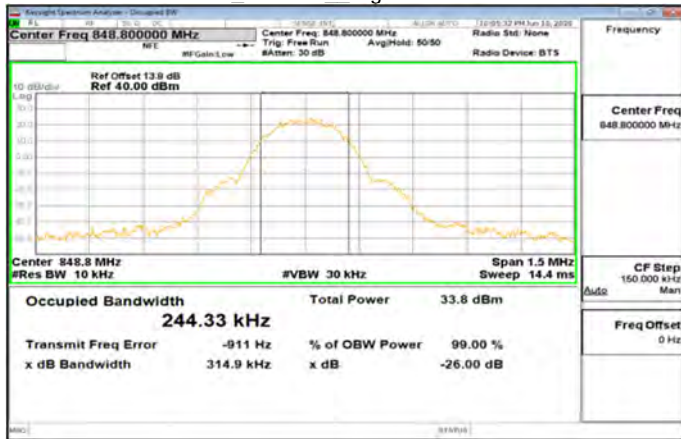
EDGE 850MHz MidCH190-836.6



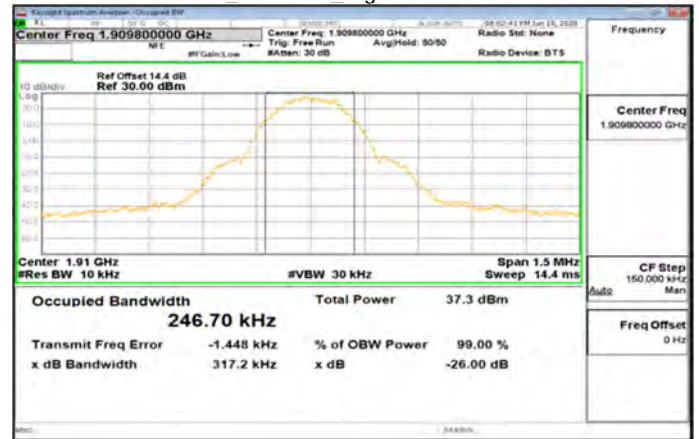
GSM 1900MHz MidCH661-1880



EDGE 850MHz HighCH251-848.8



GSM 1900MHz HighCH810-1909.8

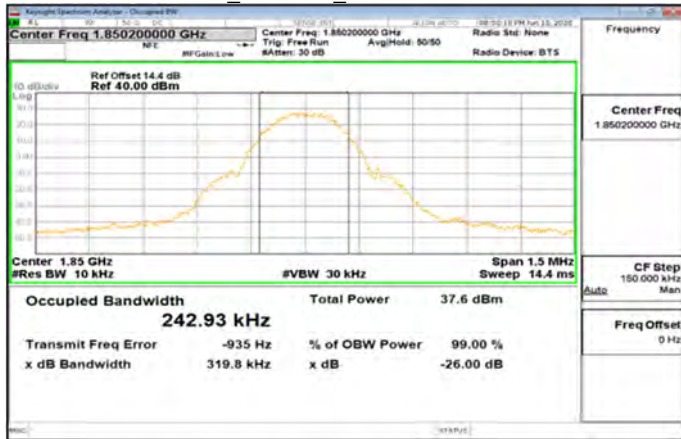


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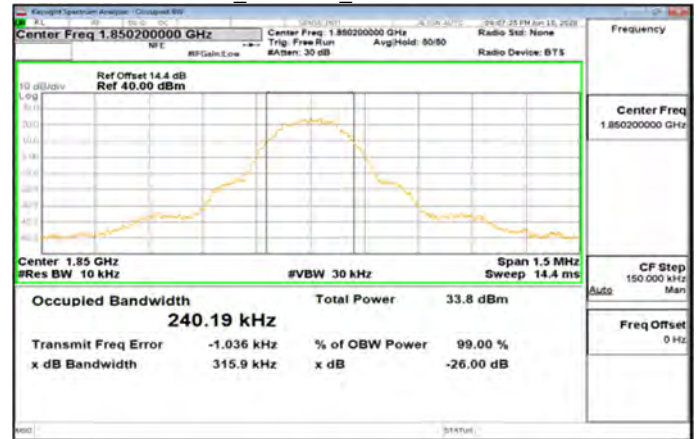
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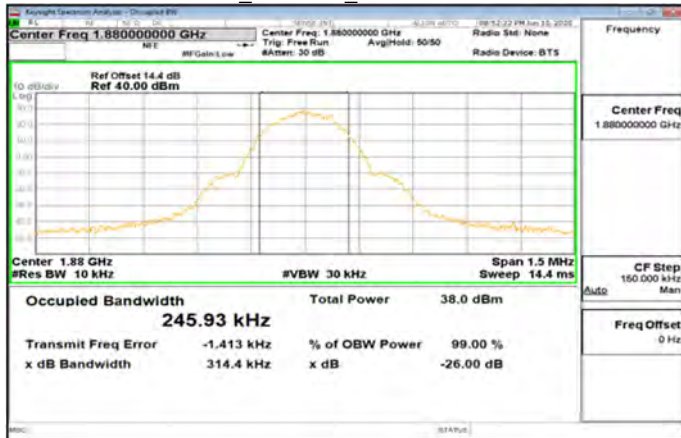
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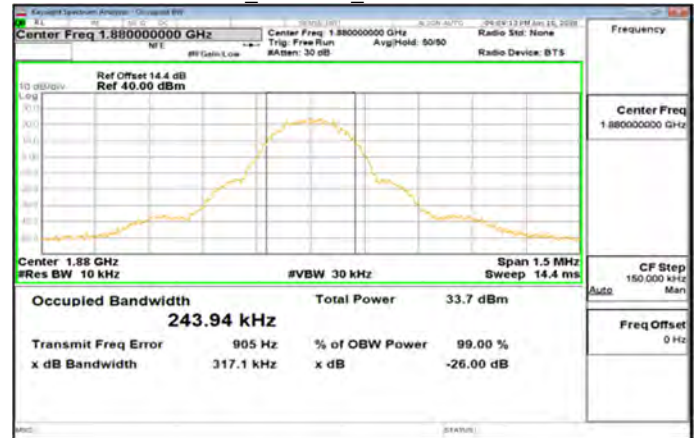
EDGE\_1900MHz\_LowCH512-1850.2



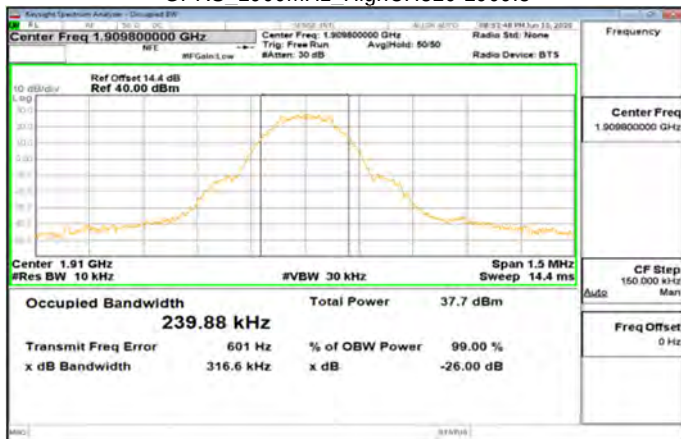
GPRS\_1900MHz\_MidCH661-1880



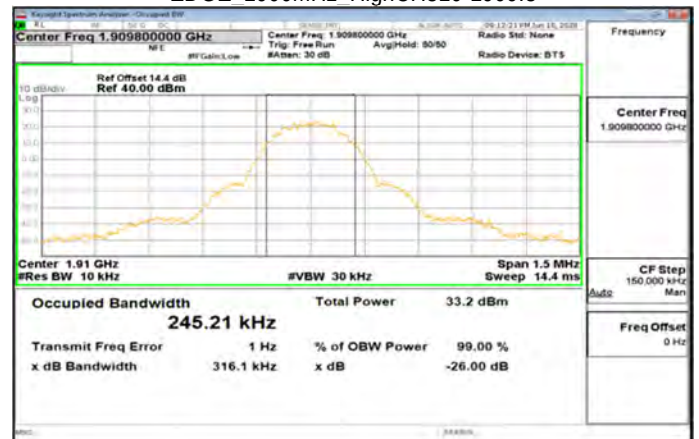
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GPRS\_1900MHz\_HighCH810-1909.8



EDGE\_1900MHz\_HighCH810-1909.8

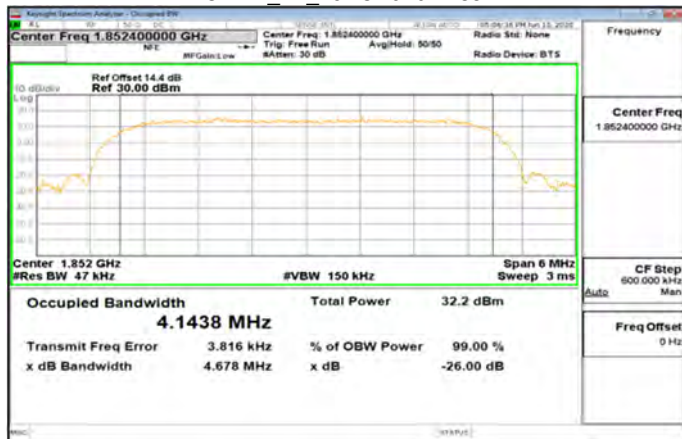


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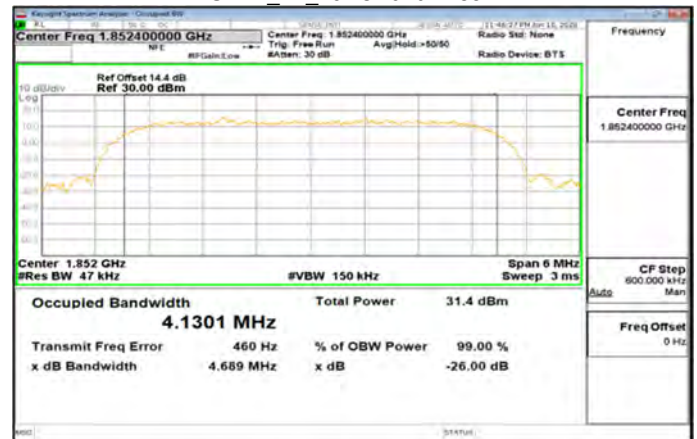
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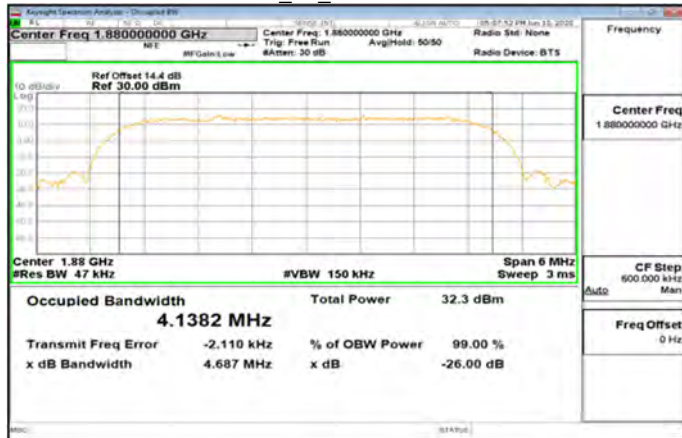
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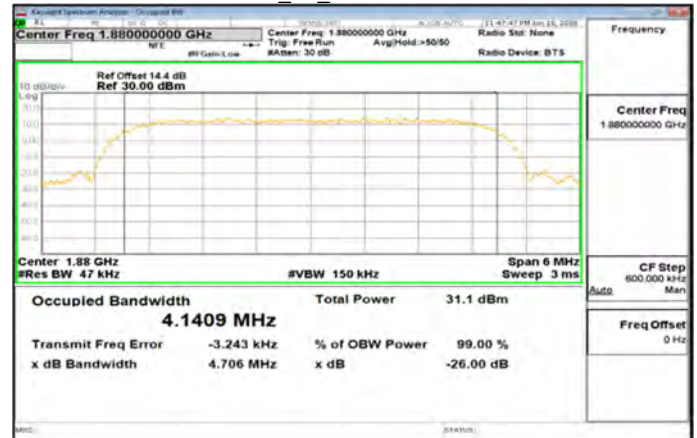
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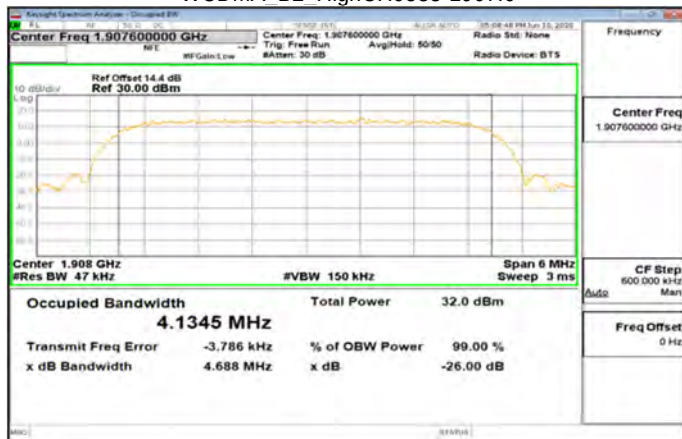
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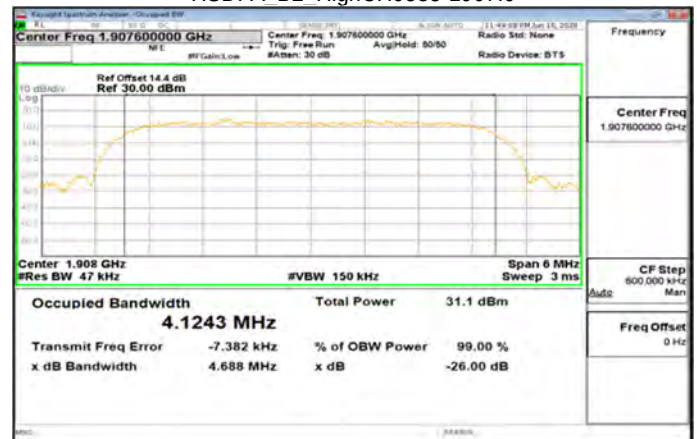
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HSDPA\_B2\_HighCH9538-1907.6

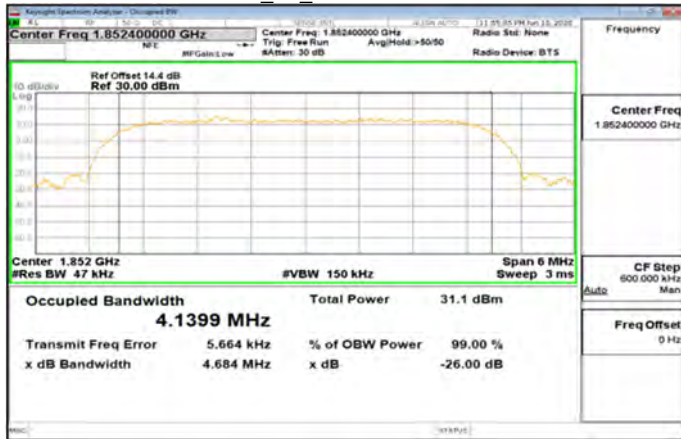


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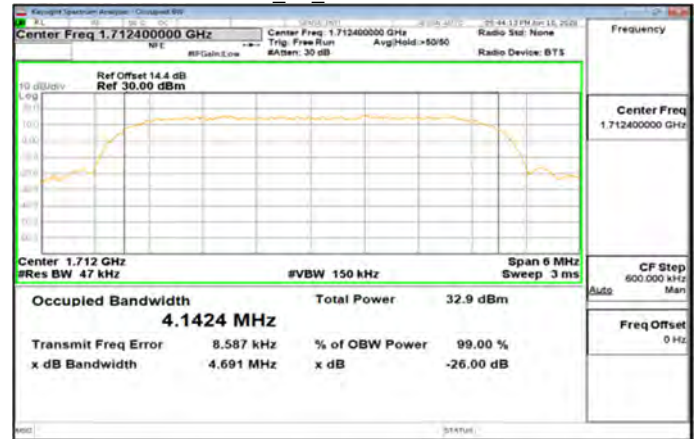
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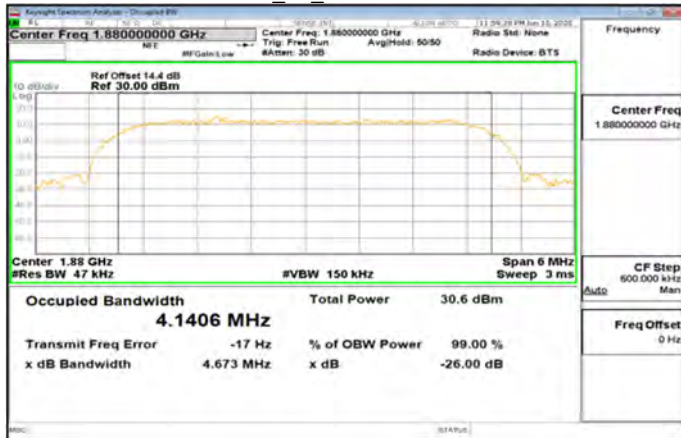
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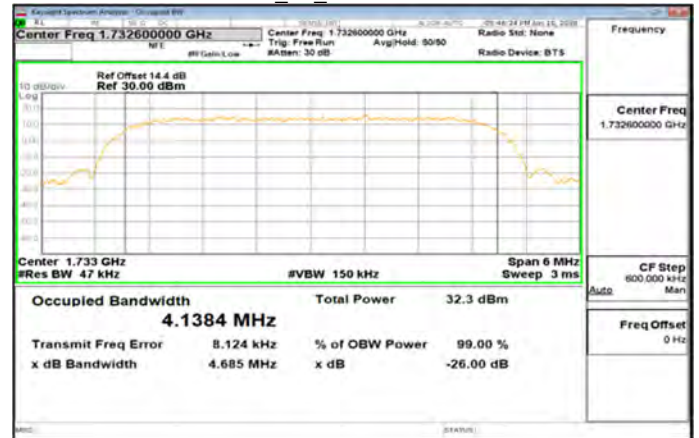
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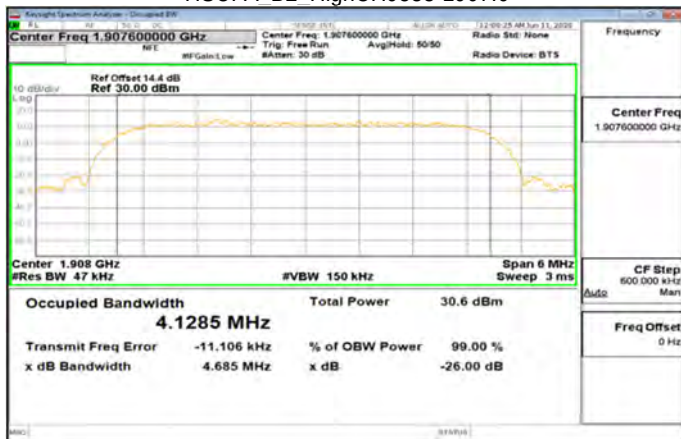
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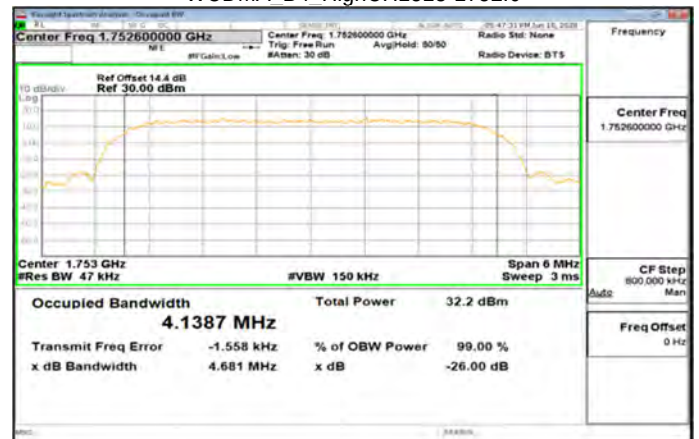
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HSUPA\_B2\_HighCH9538-1907.6



WCDMA\_B4\_HighCH1513-1752.6

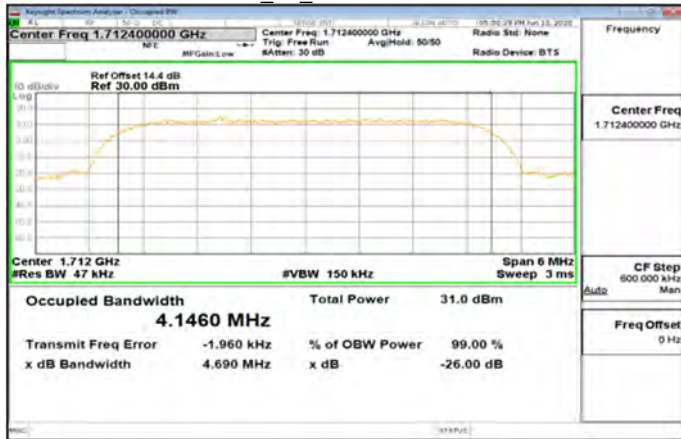


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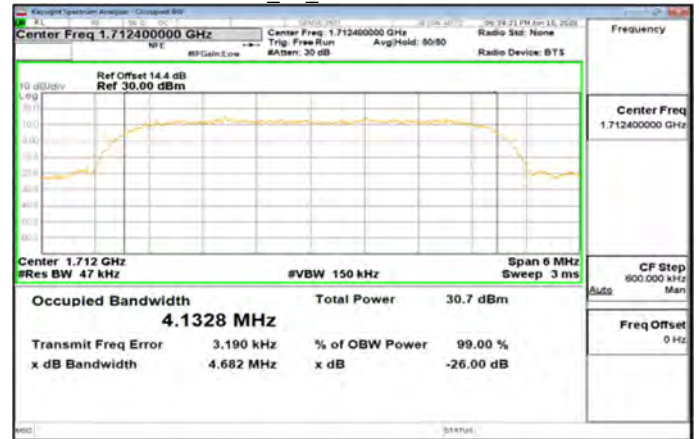
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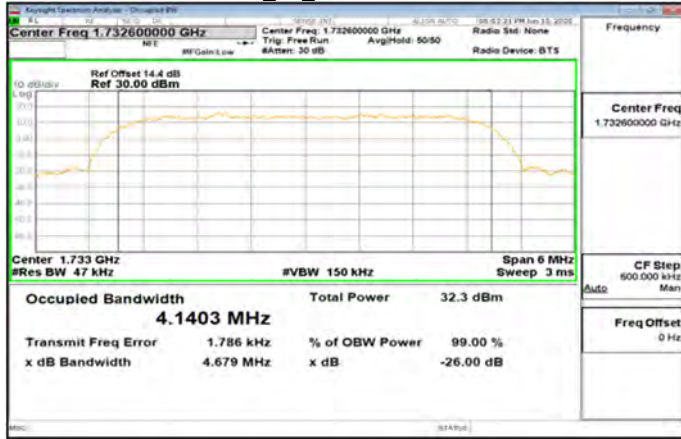
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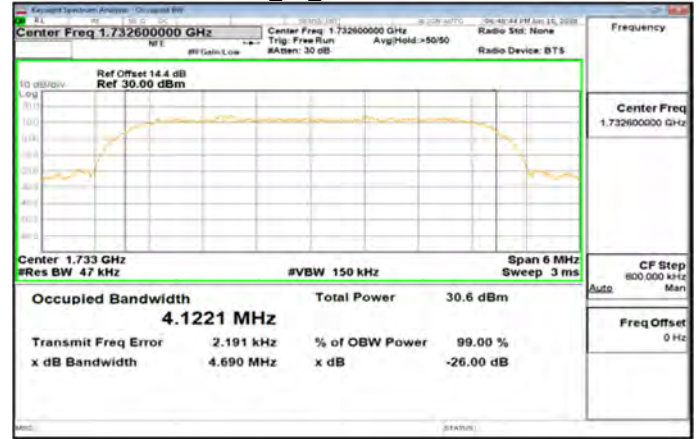
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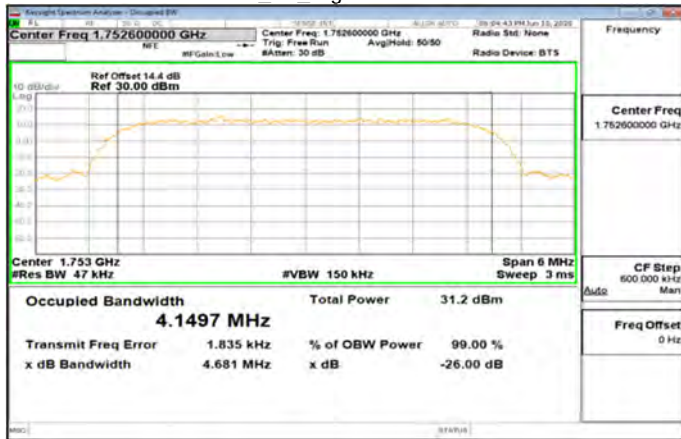
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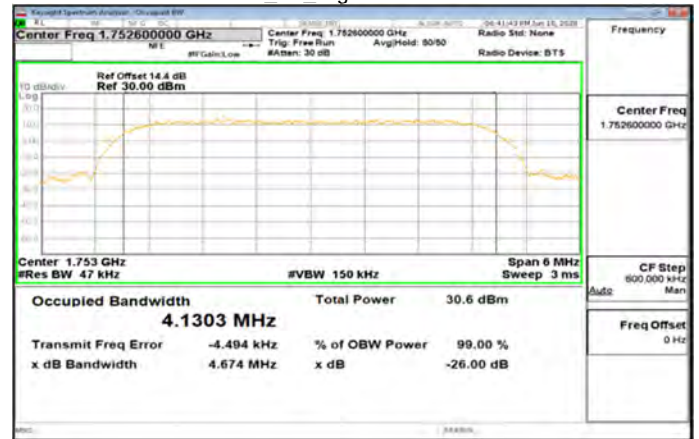
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HSDPA\_B4\_HighCH1513-1752.6



HSUPA\_B4\_HighCH1513-1752.6

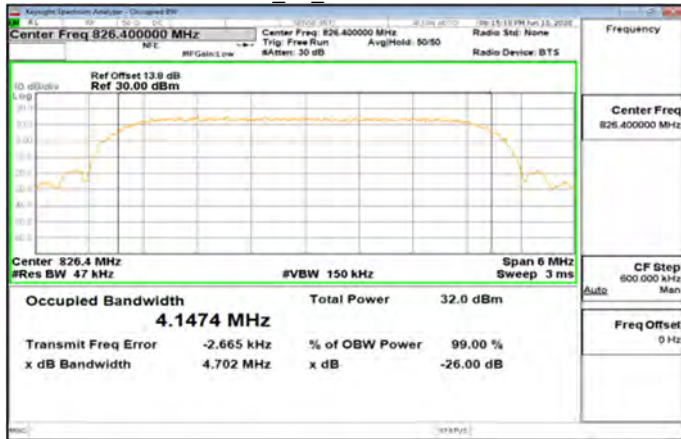


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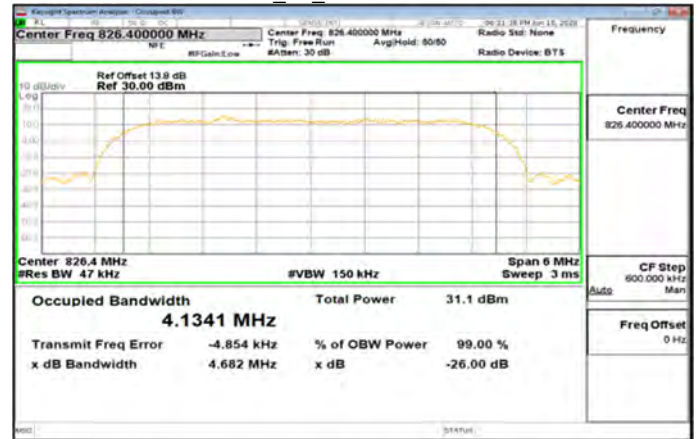
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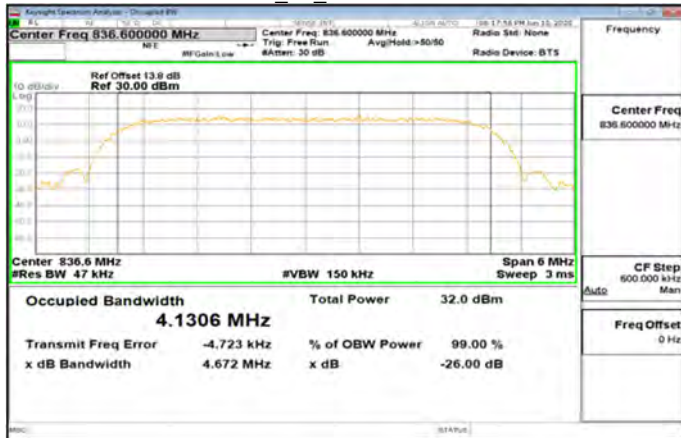
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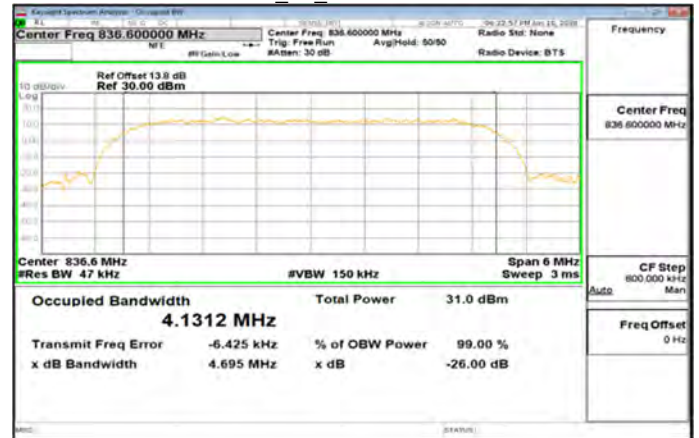
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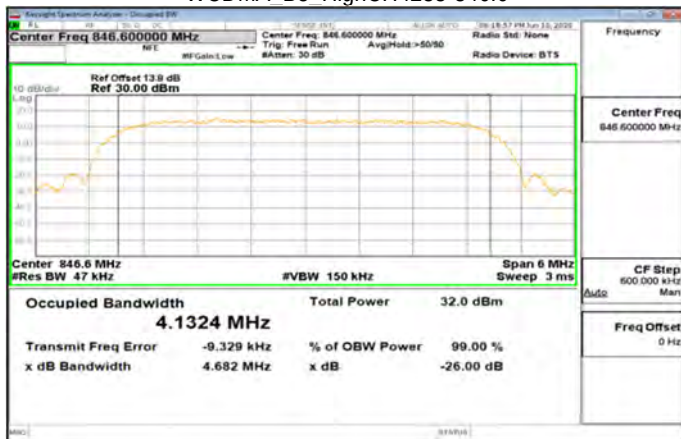
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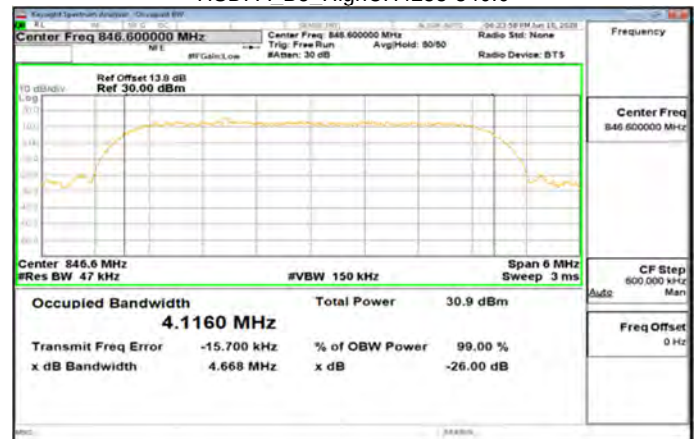
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HSDPA\_B5\_HighCH4233-846.6

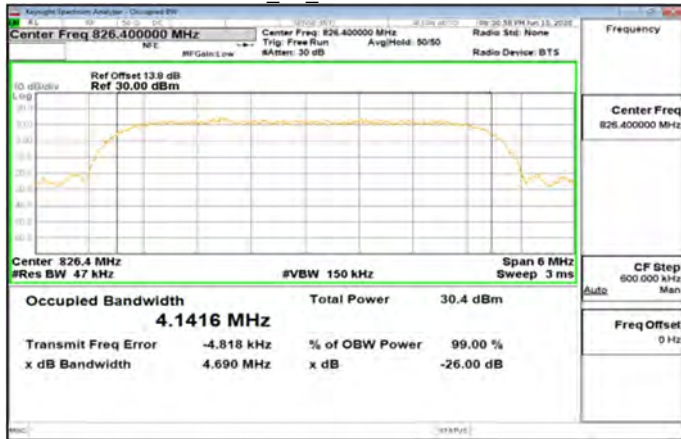


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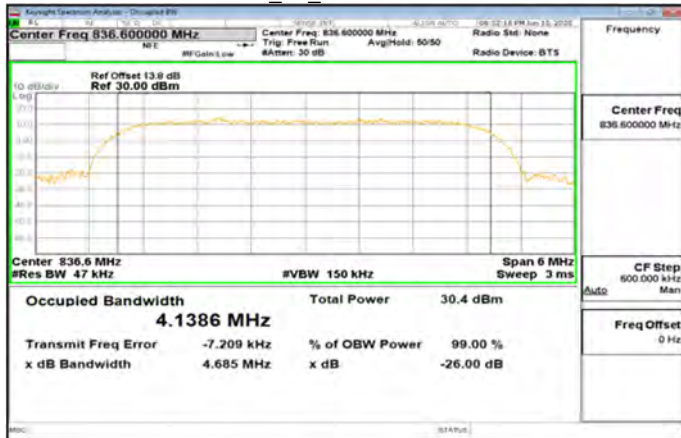
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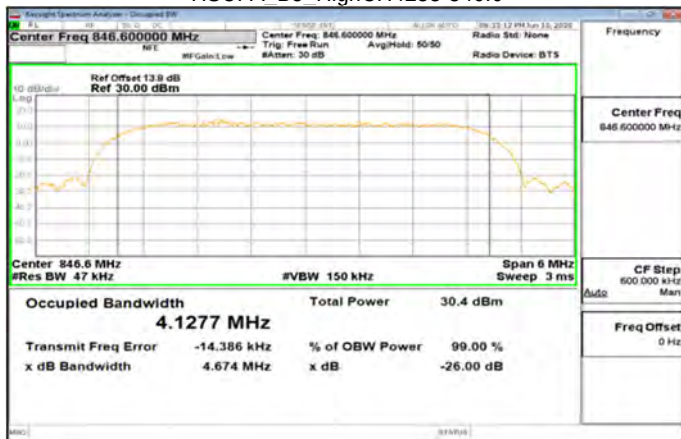
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HSUPA\_B5\_MidCH4183-836.6



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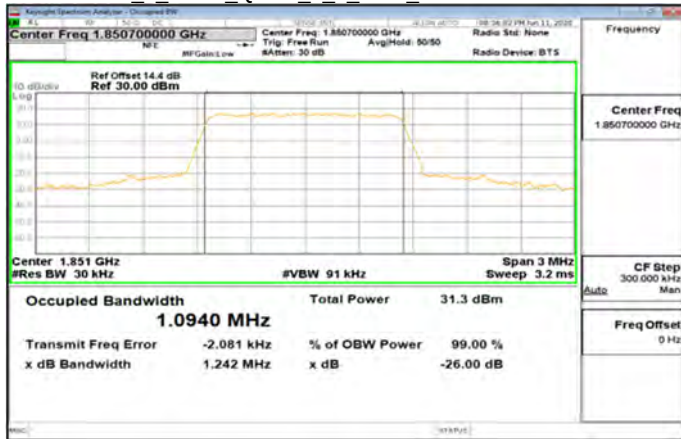


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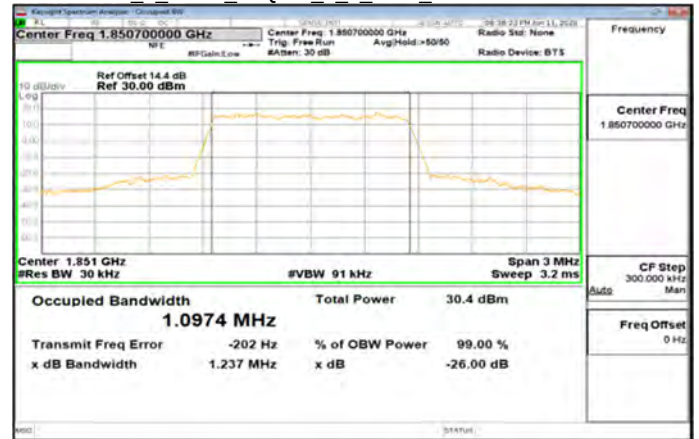
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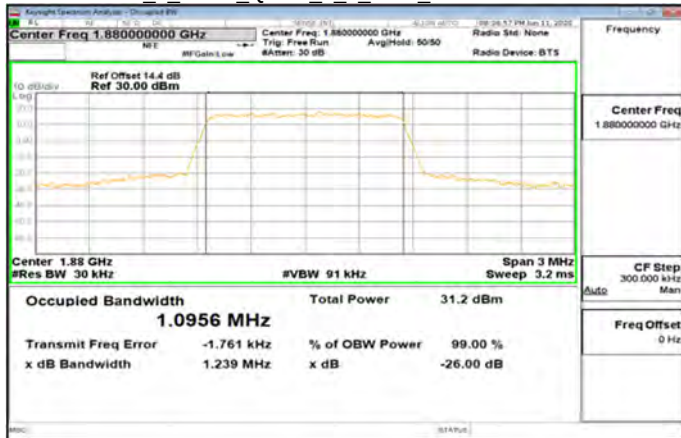
Band2 1 4MHz\_QPSK 6 0 Main\_LowCH18607-1850.7



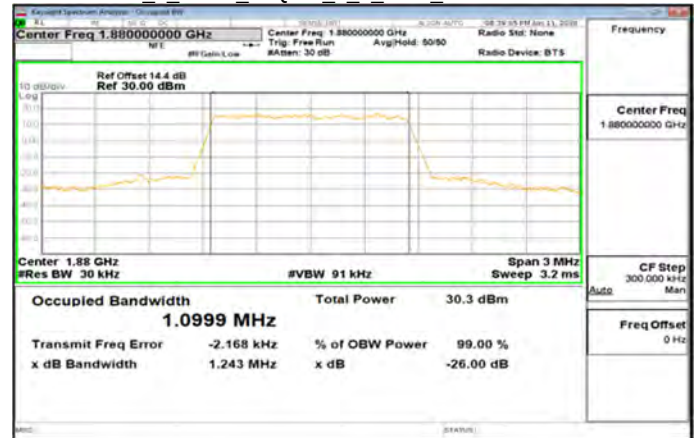
Band2 1 4MHz\_16QAM 6 0 Main\_LowCH18607-1850.7



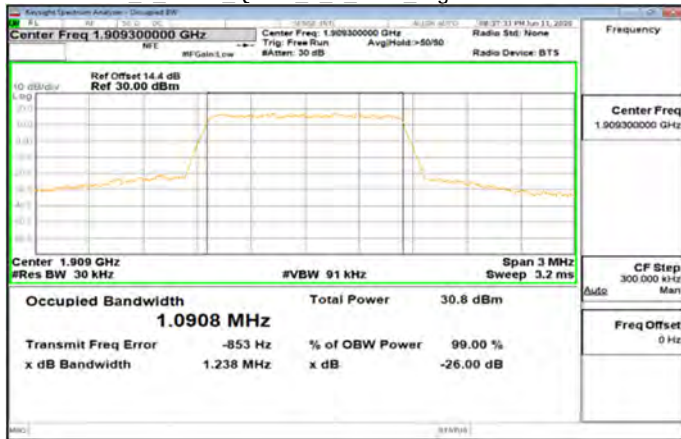
Band2 1 4MHz\_QPSK 6 0 Main\_MidCH18900-1880



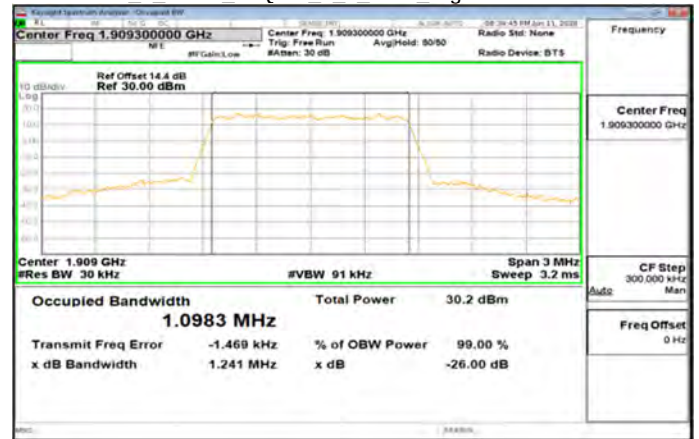
Band2 1 4MHz\_16QAM 6 0 Main\_MidCH18900-1880



Band2 1 4MHz\_QPSK 6 0 Main\_HighCH19193-1909.3



Band2 1 4MHz\_16QAM 6 0 Main\_HighCH19193-1909.3

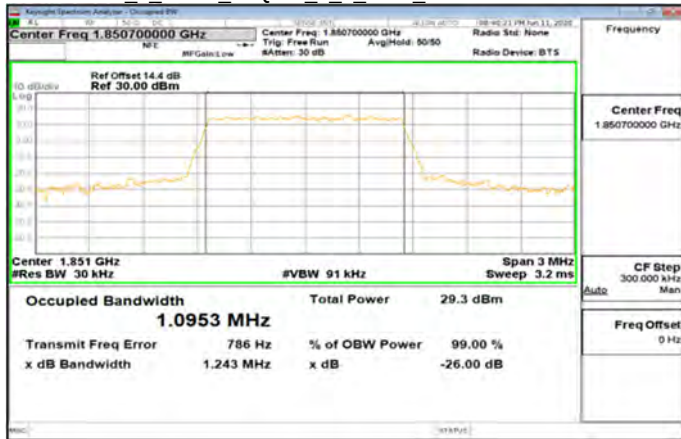


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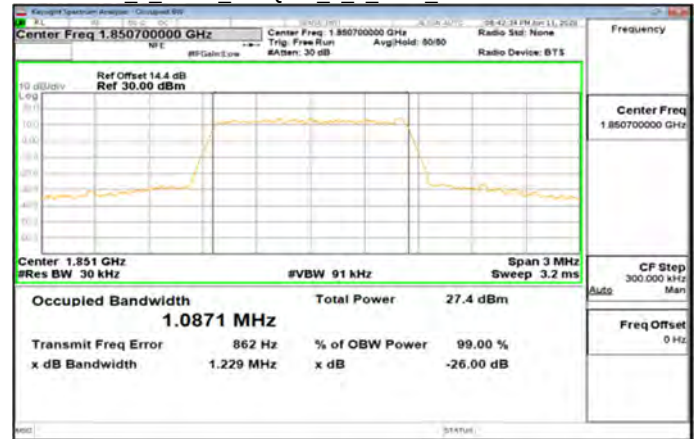
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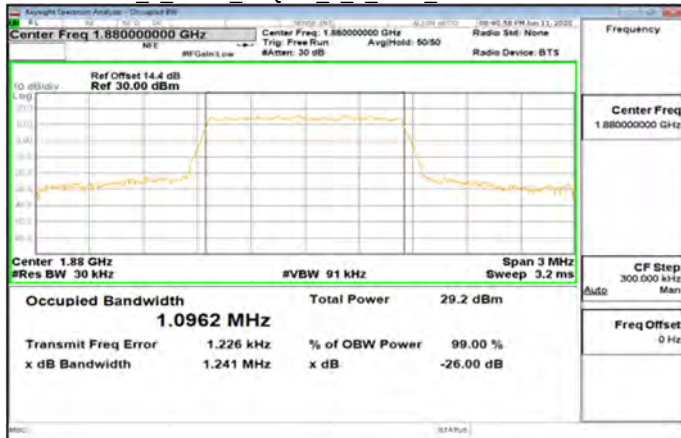
Band2\_1\_4MHz\_64QAM\_6\_0\_Main\_LowCH18607-1850.7



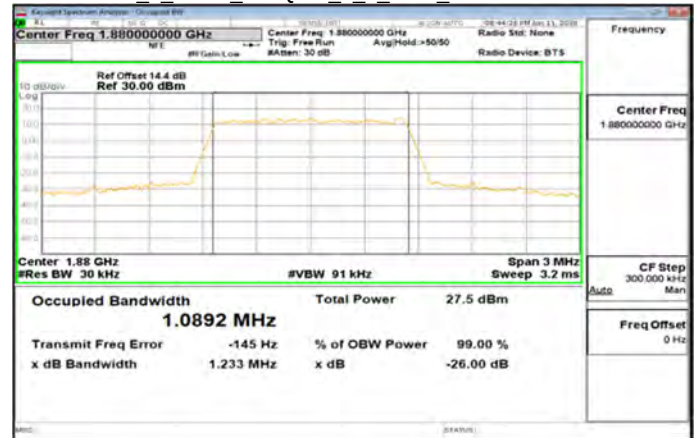
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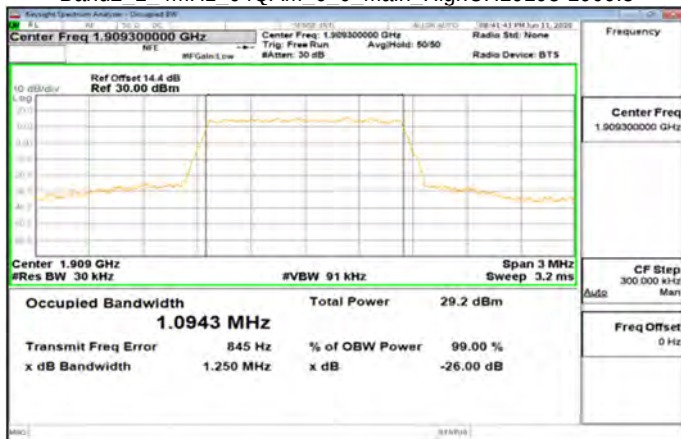
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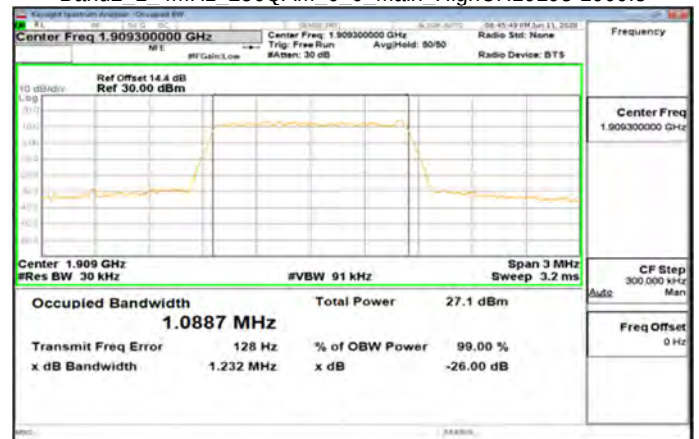
Band2\_1\_4MHz\_256QAM\_6\_0\_Main\_MidCH18900-1880



Band2\_1\_4MHz\_64QAM\_6\_0\_Main\_HighCH19193-1909.3



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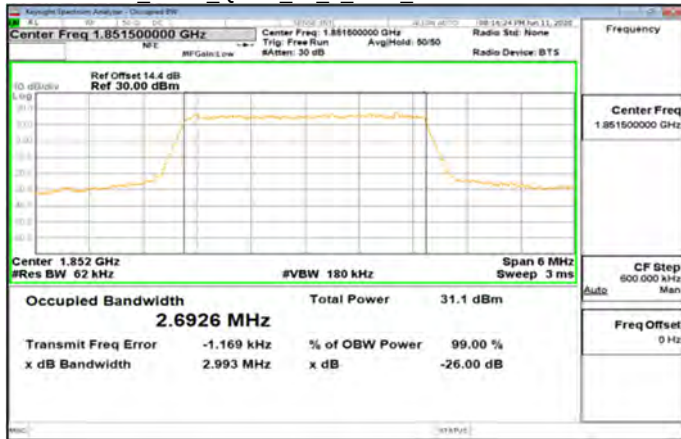


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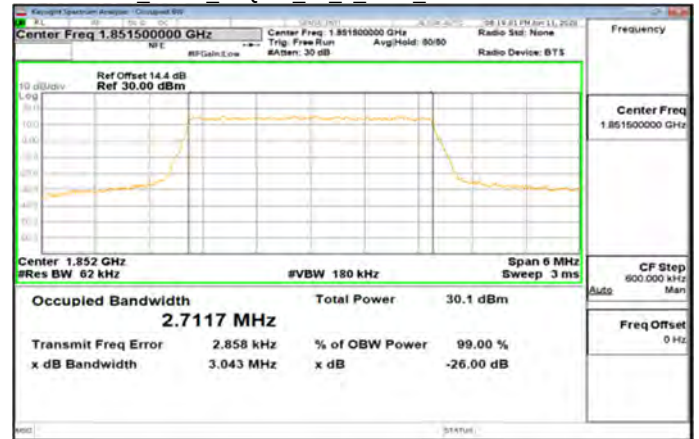
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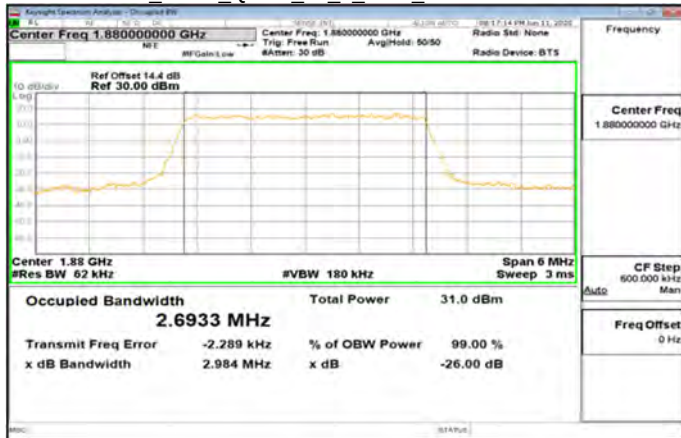
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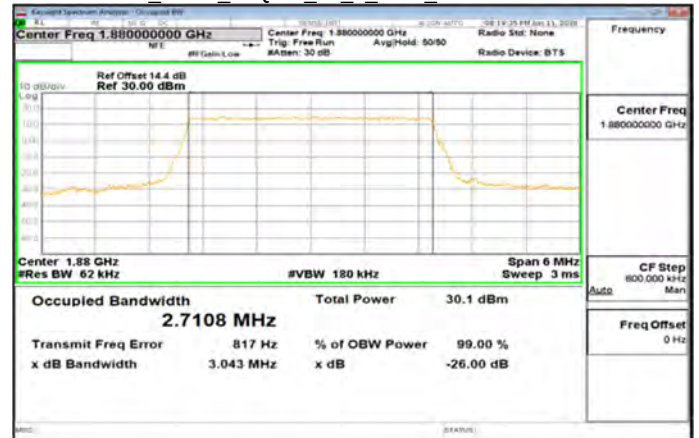
Band2 3MHz 16QAM 15 0 Main LowCH18615-1851.5



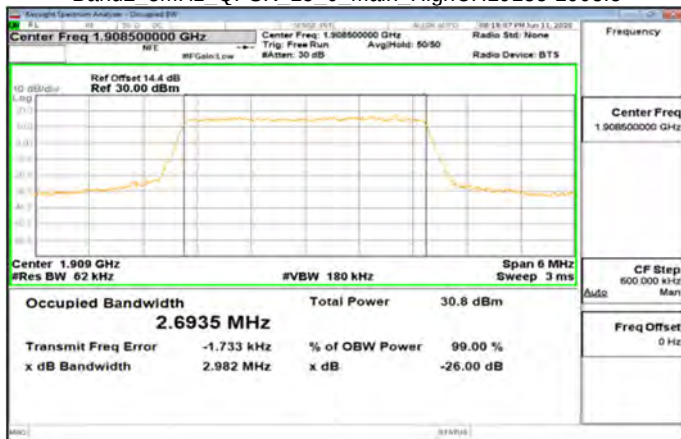
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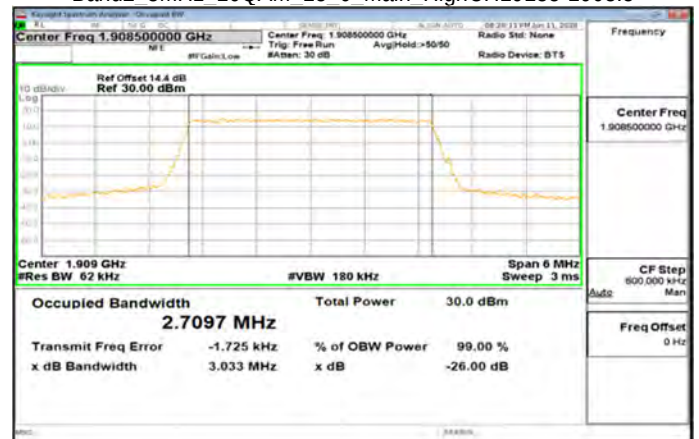
Band2 3MHz 16QAM 15 0 Main MidCH18900-1880



Band2 3MHz QPSK 15 0 Main HighCH19185-1908.5



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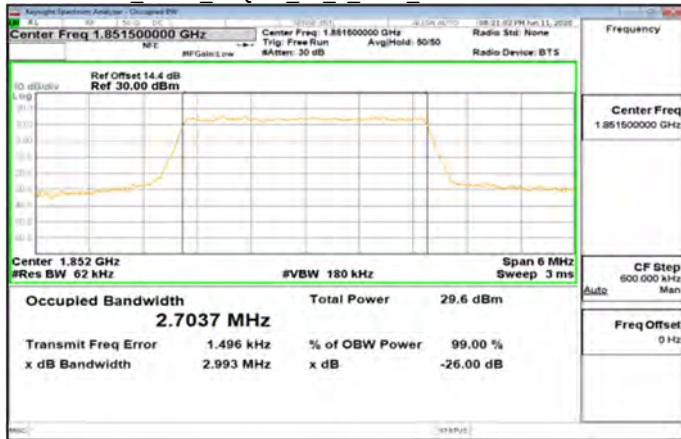


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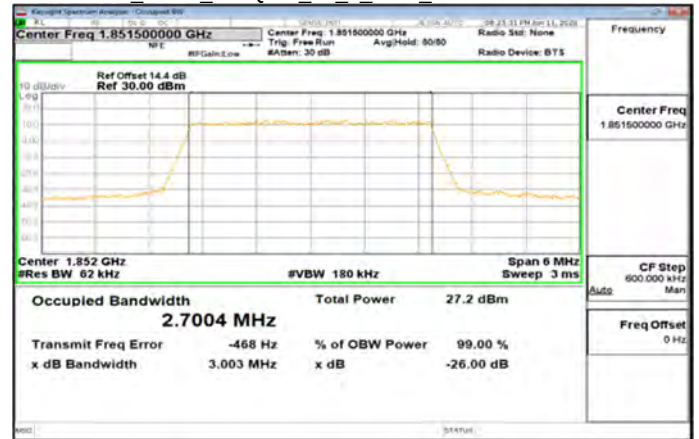
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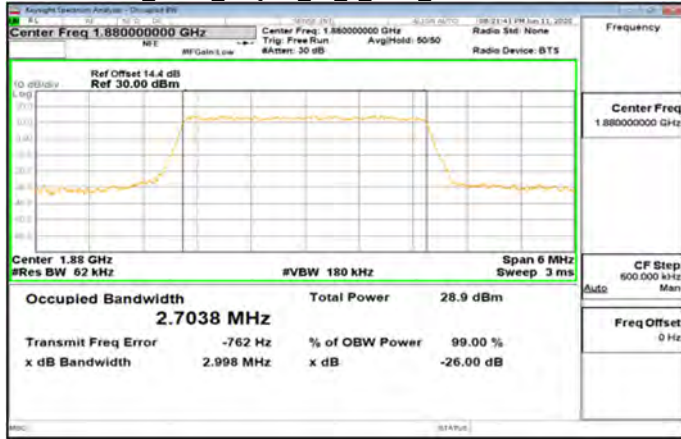
Band2 3MHz 64QAM 15 0 Main LowCH18615-1851.5



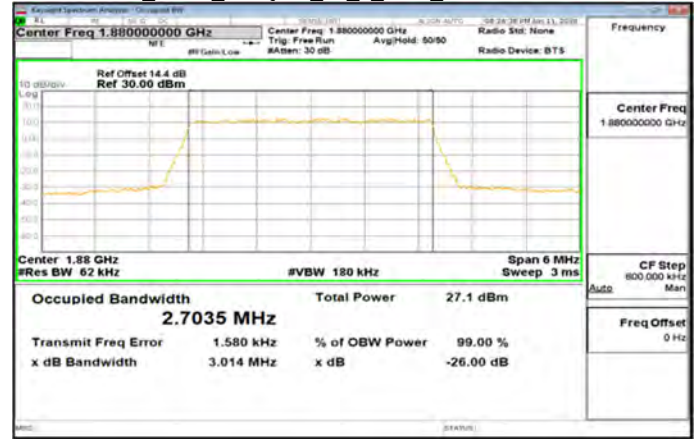
Band2 3MHz 256QAM 15 0 Main LowCH18615-1851.5



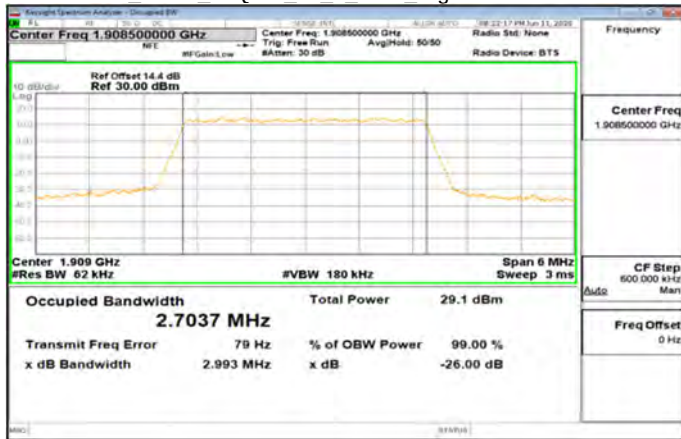
Band2 3MHz 64QAM 15 0 Main MidCH18900-1880



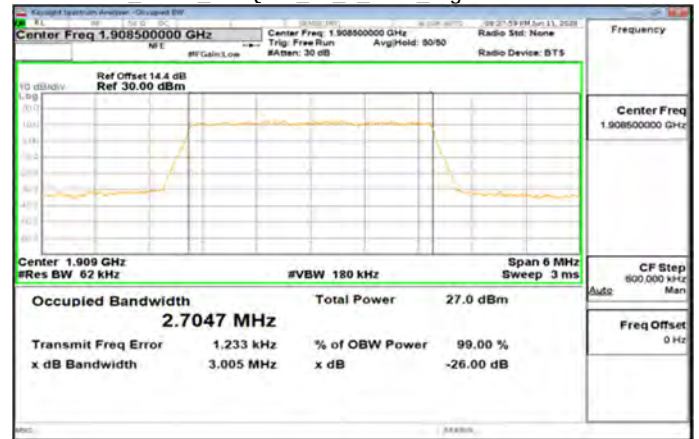
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Band2 3MHz 64QAM 15 0 Main HighCH19185-1908.5



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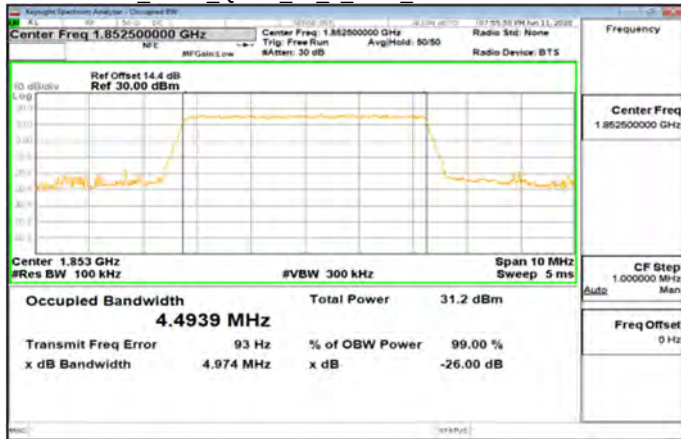


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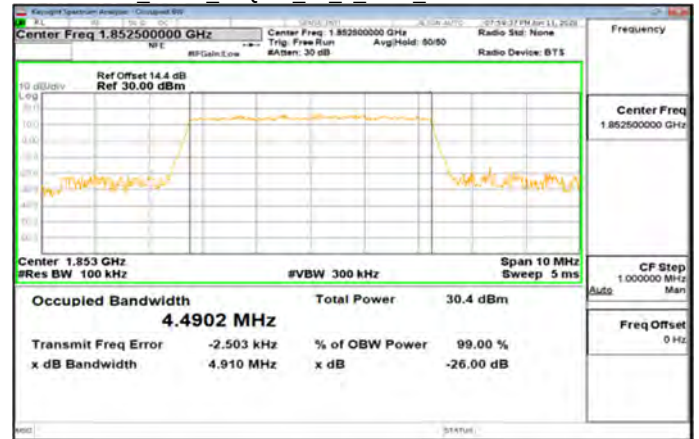
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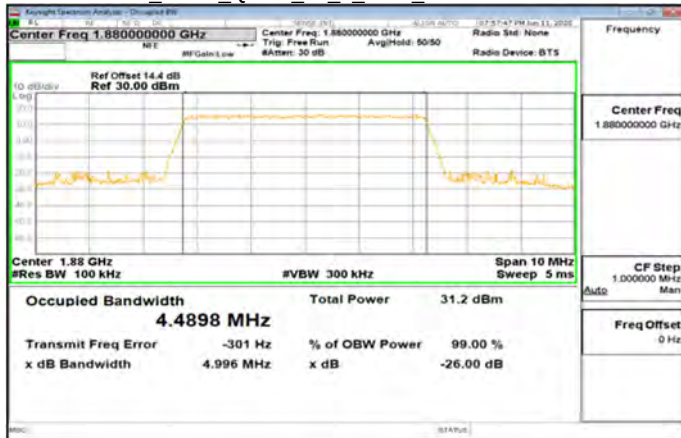
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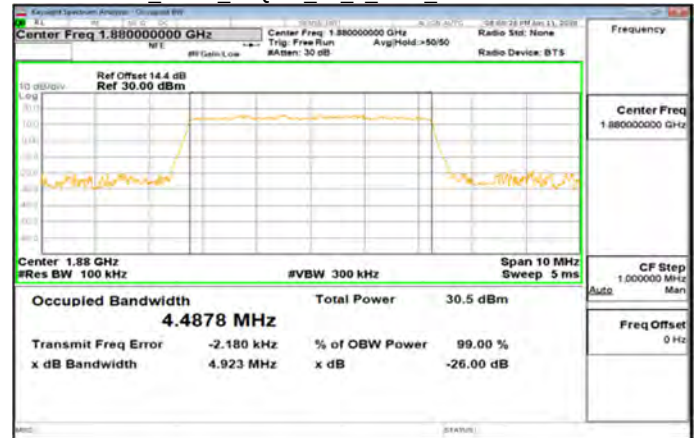
Band2\_5MHz\_16QAM\_25\_0\_Main\_LowCH18625-1852.5



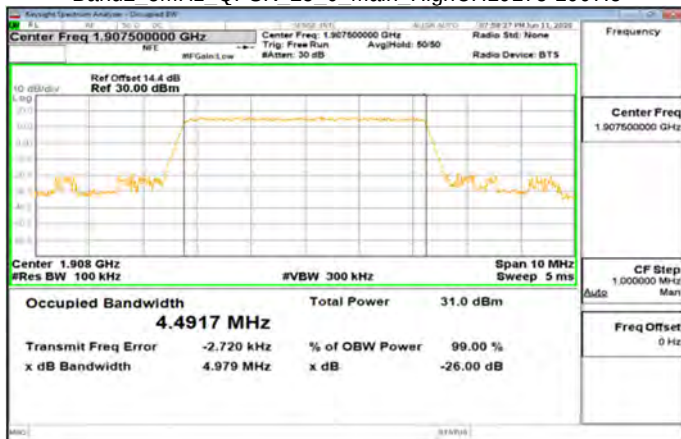
Band2\_5MHz\_QPSK\_25\_0\_Main\_MidCH18900-1880



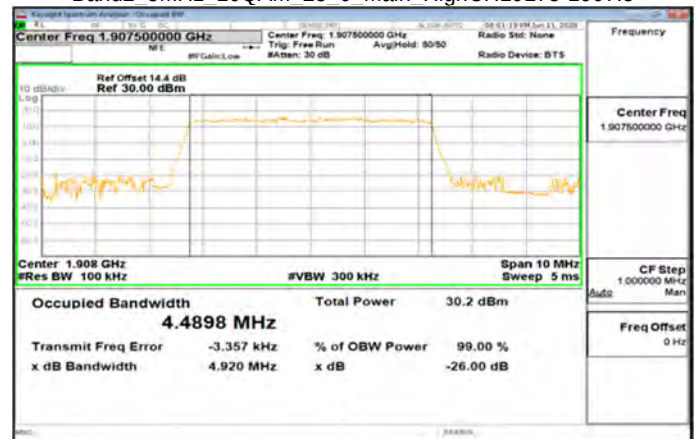
Band2\_5MHz\_16QAM\_25\_0\_Main\_MidCH18900-1880



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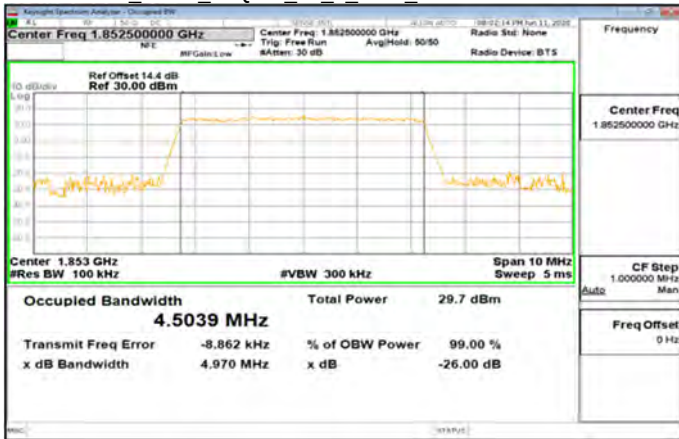


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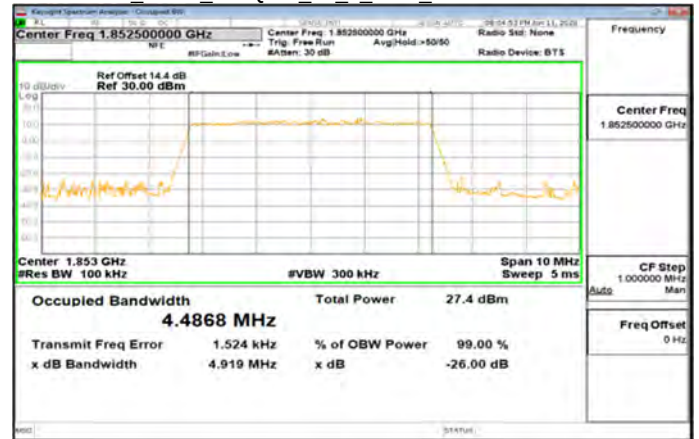
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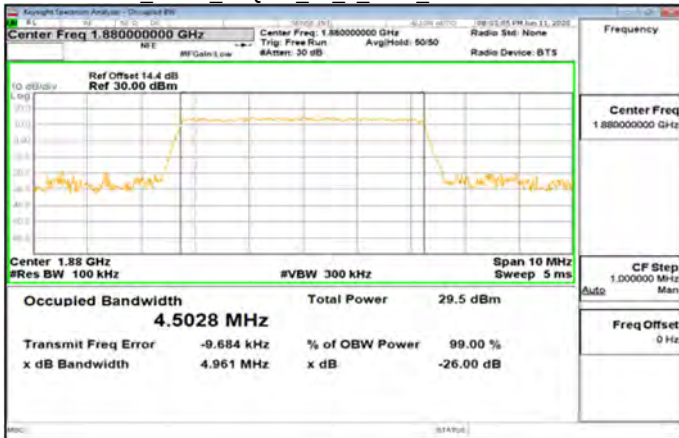
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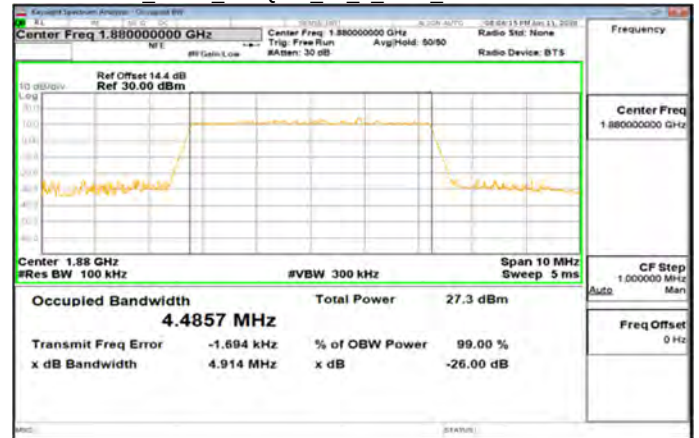
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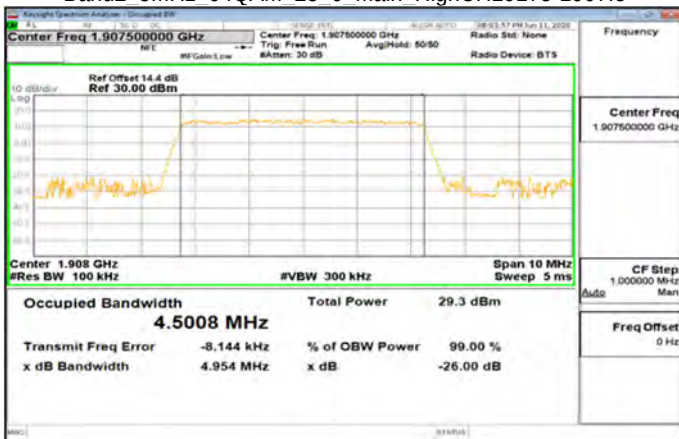
Band2 5MHz 64QAM 25 0 Main MidCH18900-1880



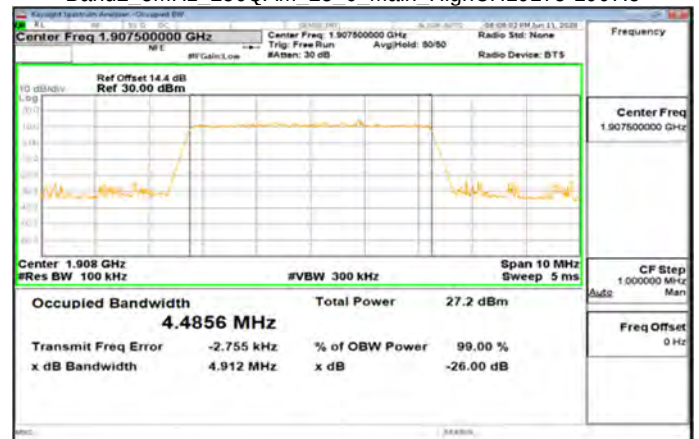
Band2 5MHz 256QAM 25 0 Main MidCH18900-1880



Band2 5MHz 64QAM 25 0 Main HighCH19175-1907.5



Band2 5MHz 256QAM 25 0 Main HighCH19175-1907.5

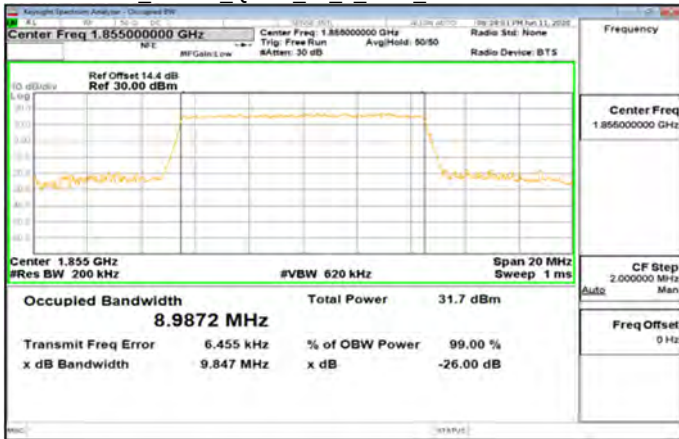


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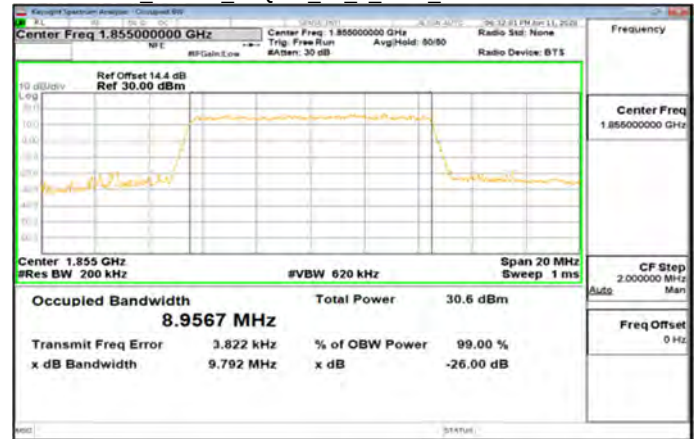
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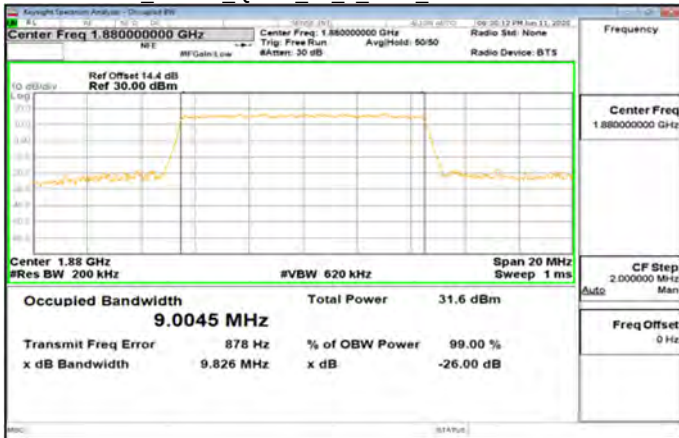
Band2 10MHz QPSK 50 0 Main LowCH18650-1855



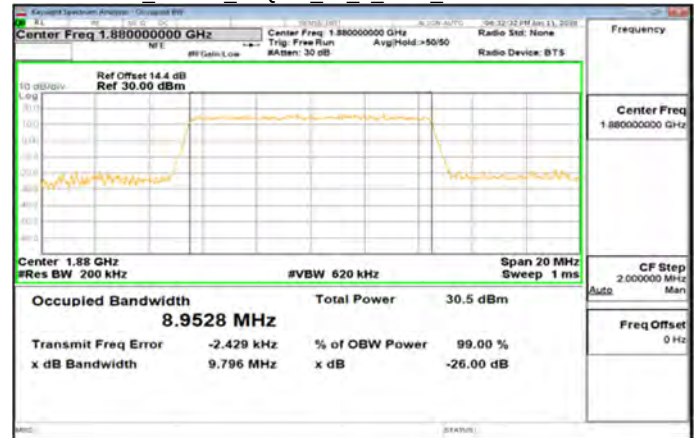
Band2 10MHz 16QAM 50 0 Main LowCH18650-1855



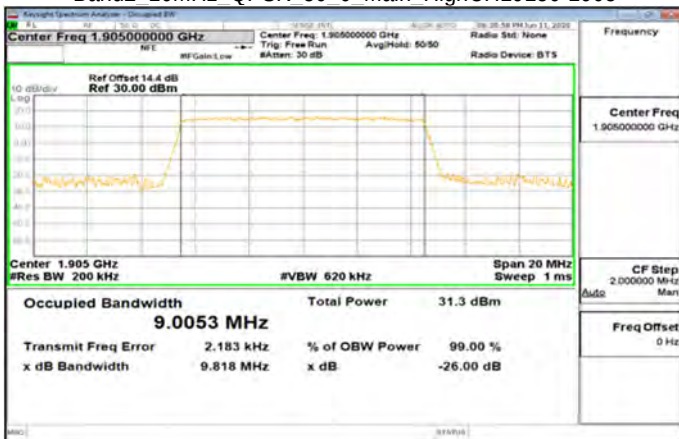
Band2 10MHz QPSK 50 0 Main MidCH18900-1880



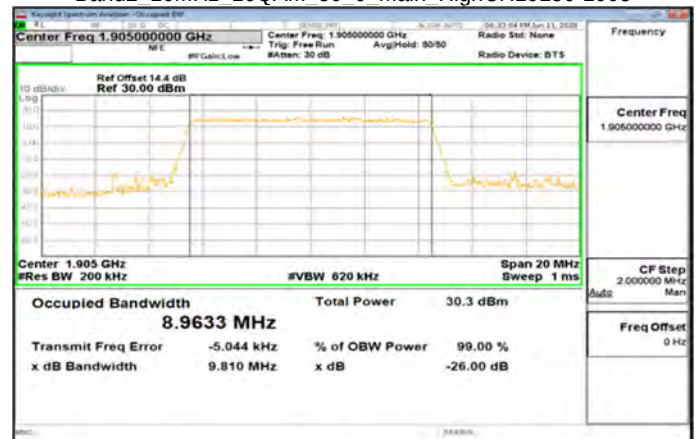
Band2 10MHz 16QAM 50 0 Main MidCH18900-1880



Band2 10MHz QPSK 50 0 Main HighCH19150-1905



Band2 10MHz 16QAM 50 0 Main HighCH19150-1905

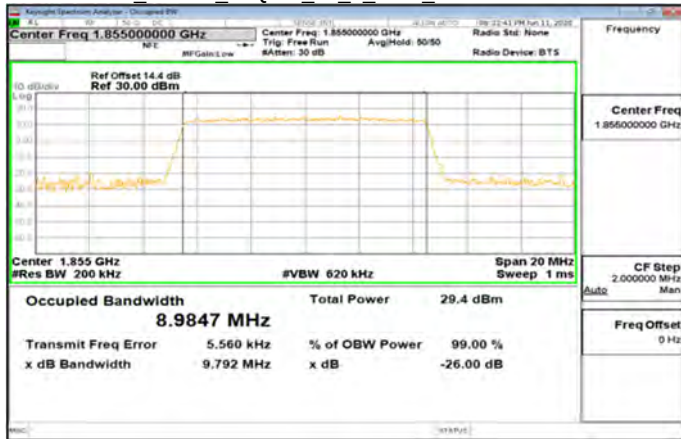


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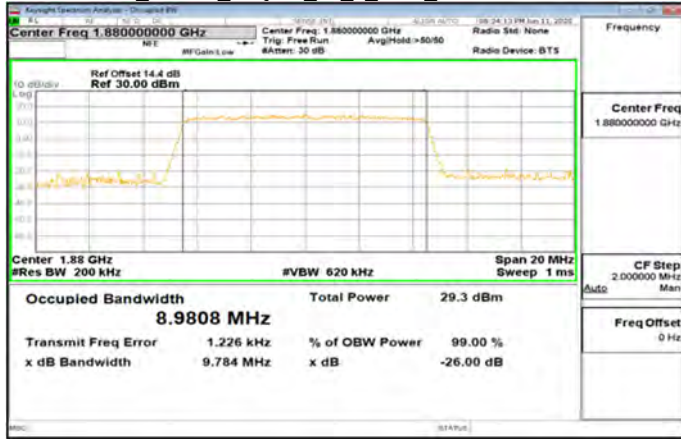
Band2 10MHz 64QAM 50 0 Main LowCH18650-1855



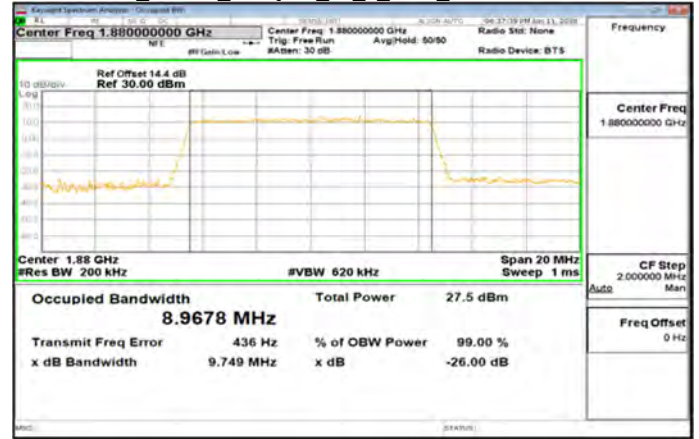
Band2 10MHz 256QAM 50 0 Main LowCH18650-1855



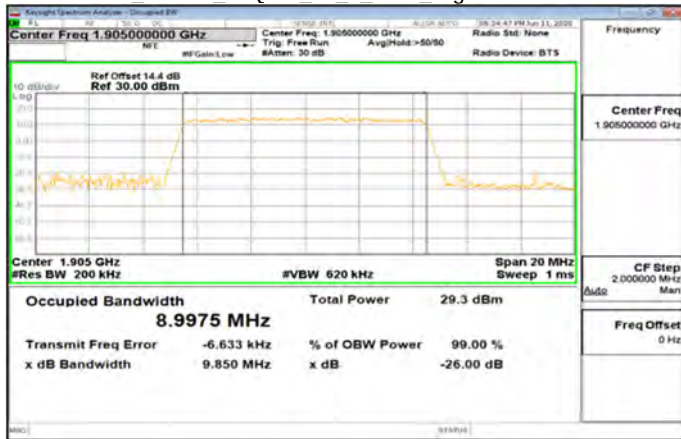
Band2 10MHz 64QAM 50 0 Main MidCH18900-1880



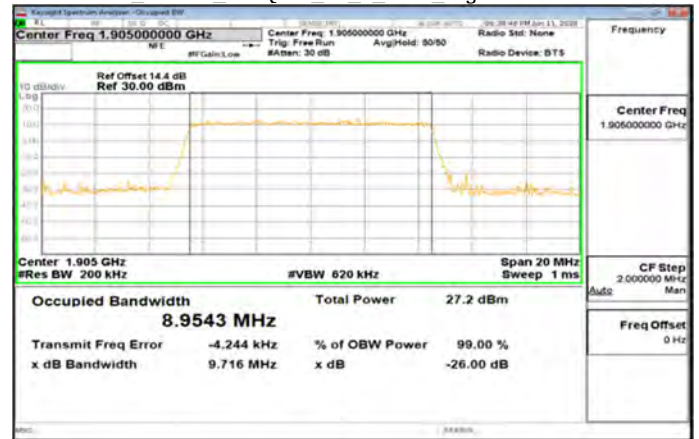
Band2 10MHz 256QAM 50 0 Main MidCH18900-1880



Band2 10MHz 64QAM 50 0 Main HighCH19150-1905



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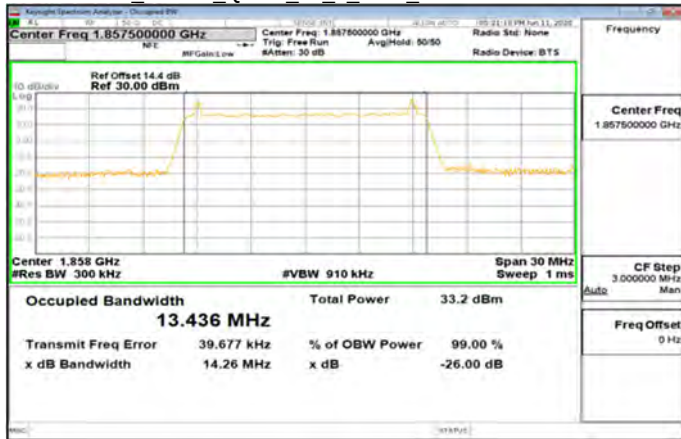


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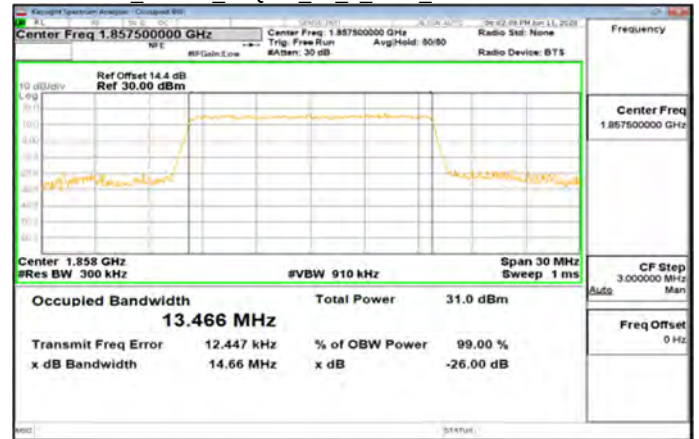
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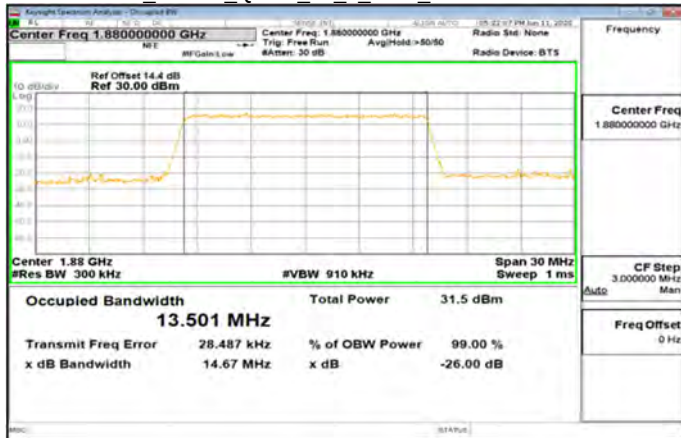
Band2 15MHz\_QPSK\_75\_0 Main\_LowCH18675-1857.5



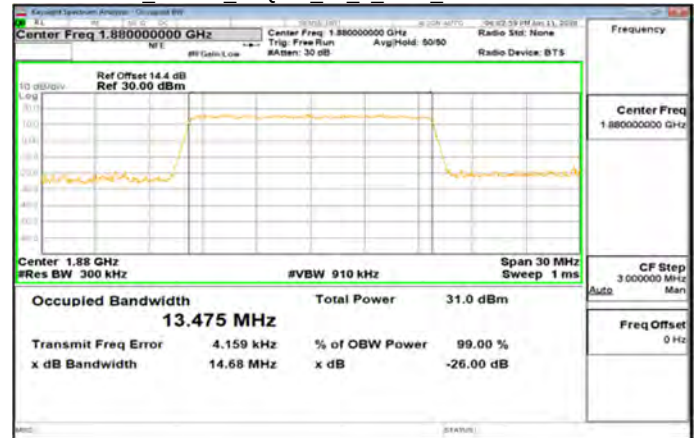
Band2 15MHz\_16QAM\_75\_0 Main\_LowCH18675-1857.5



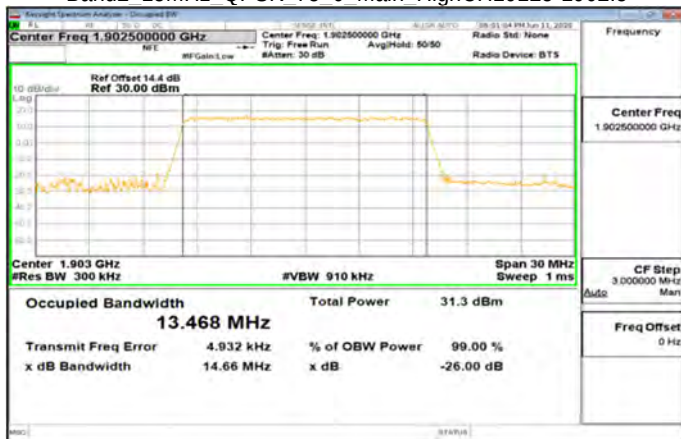
Band2 15MHz\_QPSK\_75\_0 Main\_MidCH18900-1880



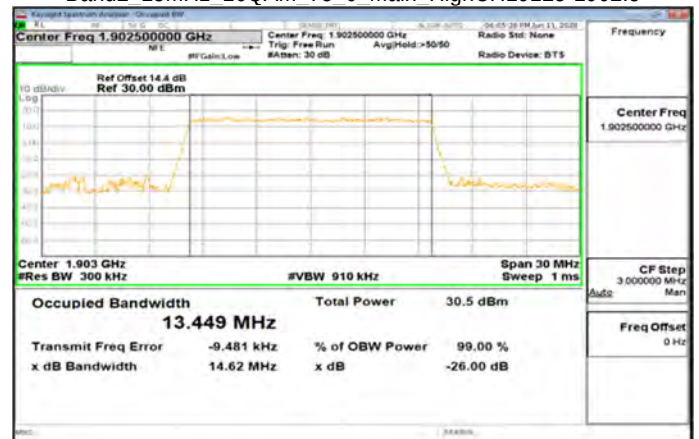
Band2 15MHz\_16QAM\_75\_0 Main\_MidCH18900-1880



Band2 15MHz\_QPSK\_75\_0 Main\_HighCH19125-1902.5



Band2 15MHz\_16QAM\_75\_0 Main\_HighCH19125-1902.5

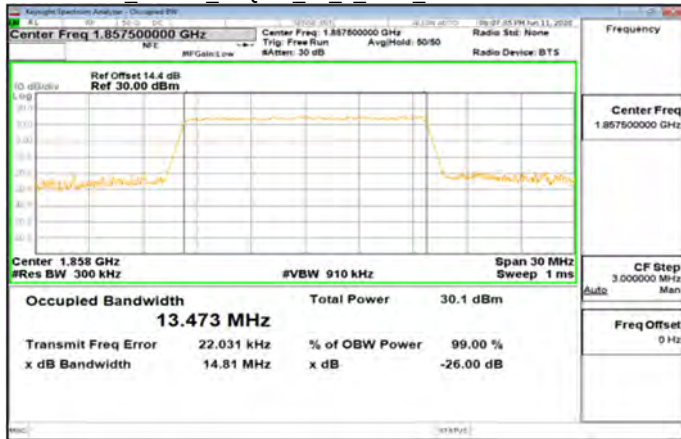


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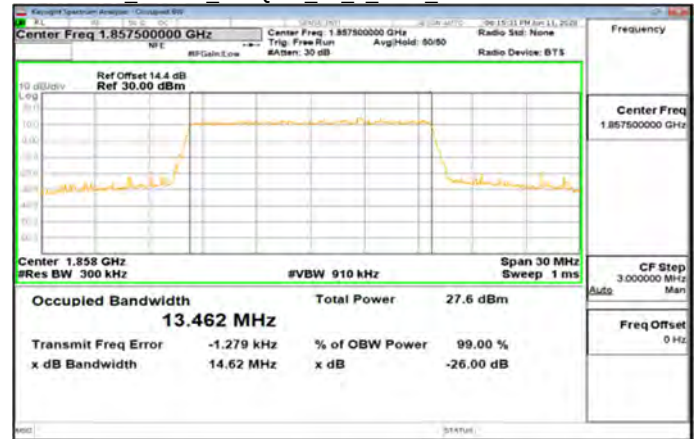
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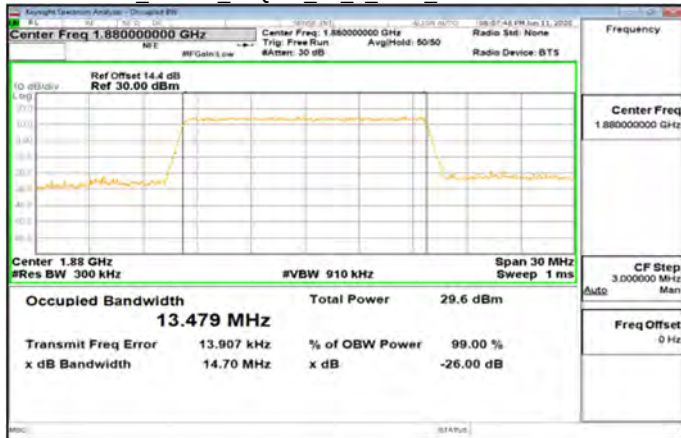
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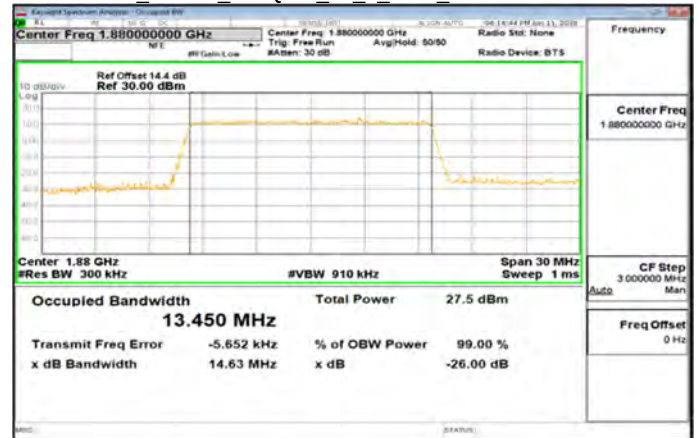
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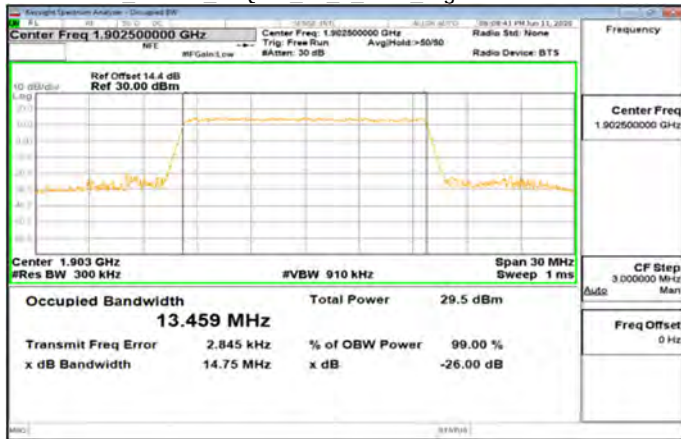
Band2\_15MHz\_64QAM\_75\_0\_Main\_MidCH18900-1880



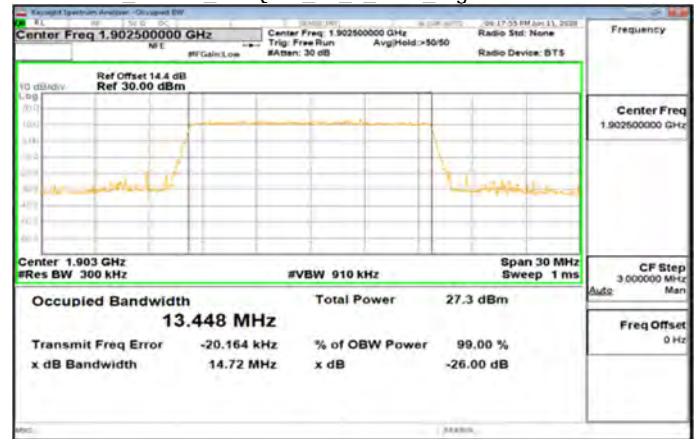
Band2\_15MHz\_256QAM\_75\_0\_Main\_MidCH18900-1880



Band2\_15MHz\_64QAM\_75\_0\_Main\_HighCH19125-1902.5



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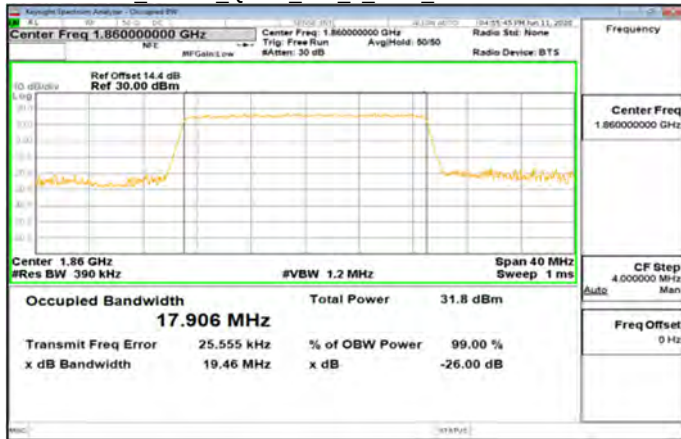


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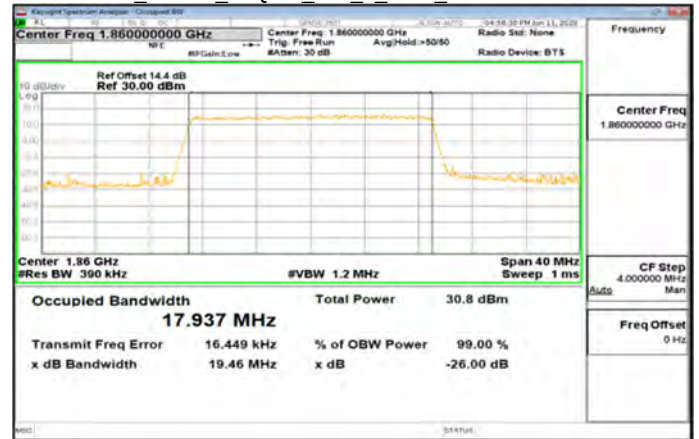
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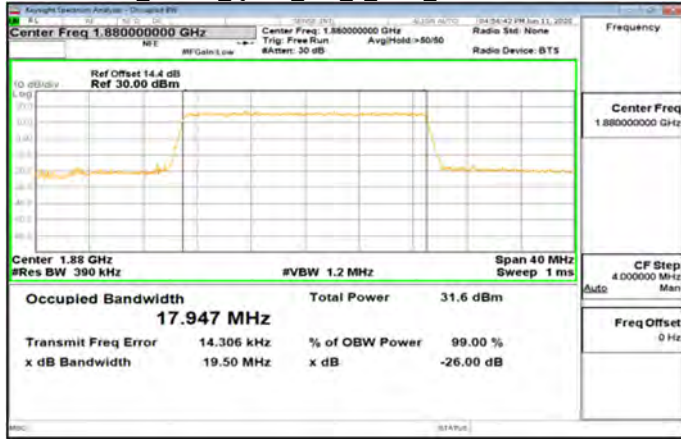
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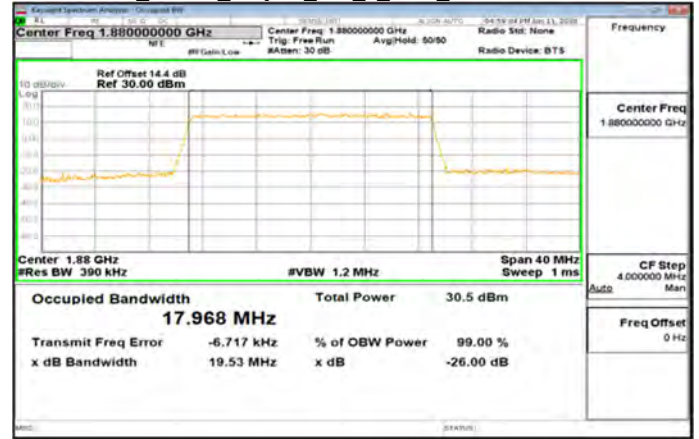
Band2 20MHz\_16QAM\_100\_0\_Main\_LowCH18700-1860



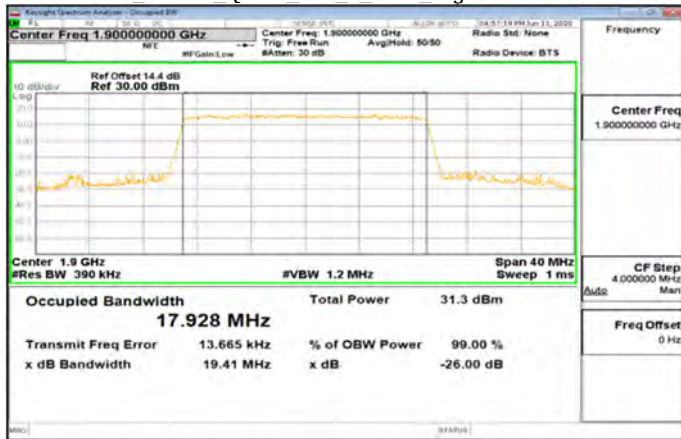
Band2 20MHz\_QPSK\_100\_0\_Main\_MidCH18900-1880



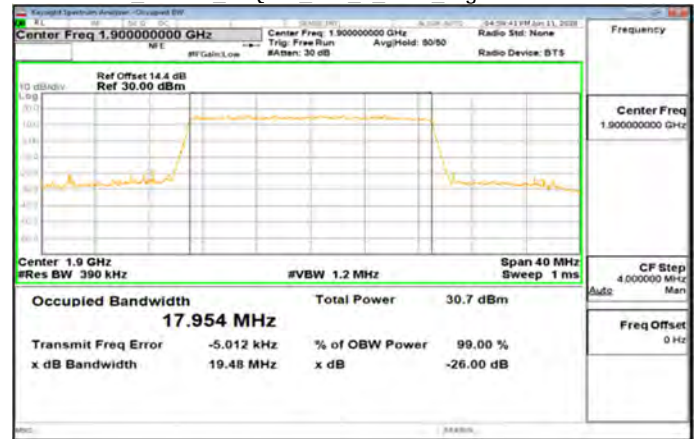
Band2 20MHz\_16QAM\_100\_0\_Main\_MidCH18900-1880



Band2 20MHz\_QPSK\_100\_0\_Main\_HighCH19100-1900



Band2 20MHz\_16QAM\_100\_0\_Main\_HighCH19100-1900

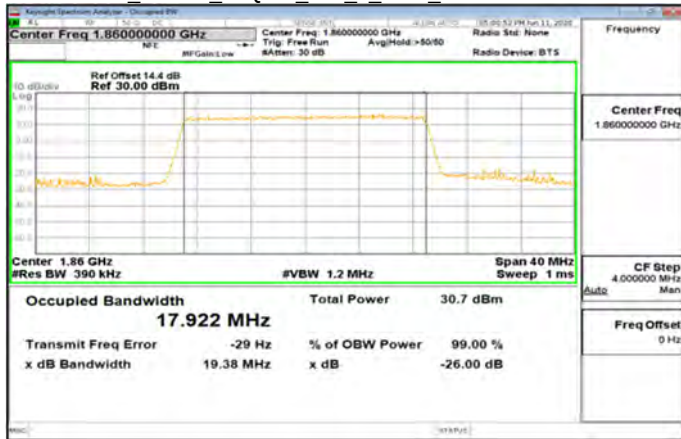


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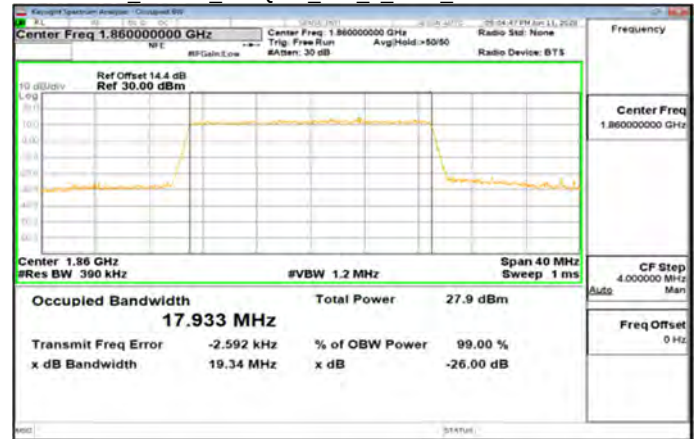
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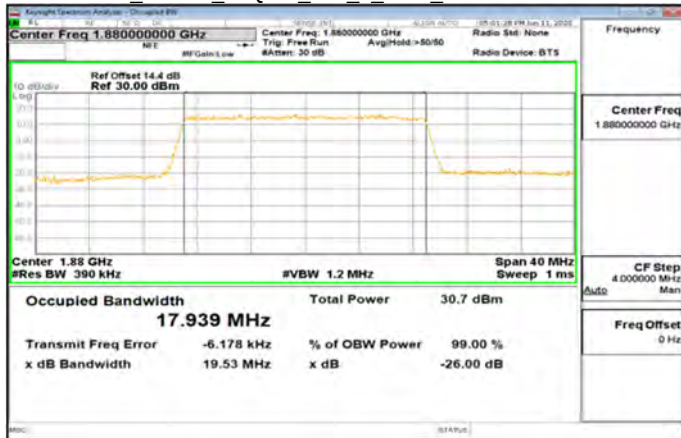
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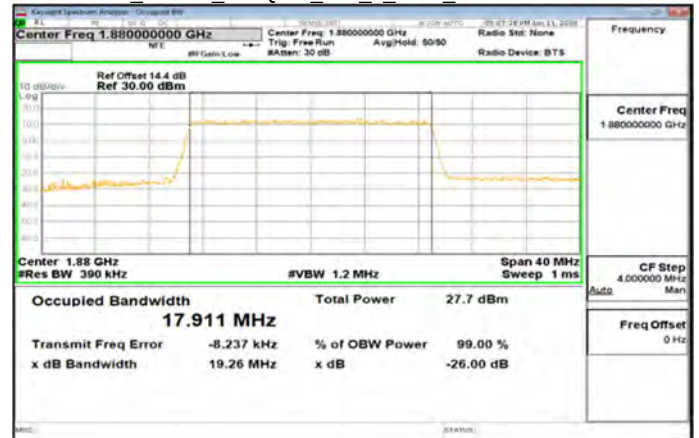
Band2 20MHz\_256QAM\_100\_0\_Main\_LowCH18700-1860



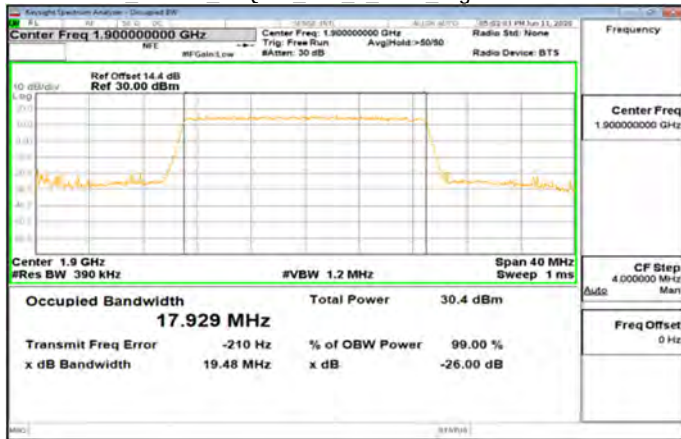
Band2 20MHz\_64QAM\_100\_0\_Main\_MidCH18900-1880



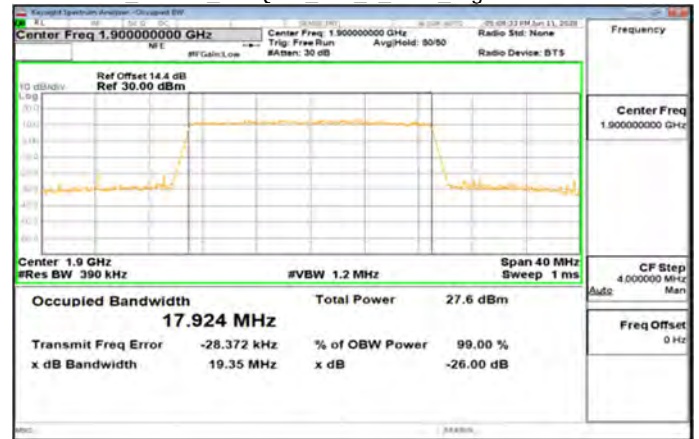
Band2 20MHz\_256QAM\_100\_0\_Main\_MidCH18900-1880



Band2 20MHz\_64QAM\_100\_0\_Main\_HighCH19100-1900



Band2 20MHz\_256QAM\_100\_0\_Main\_HighCH19100-1900

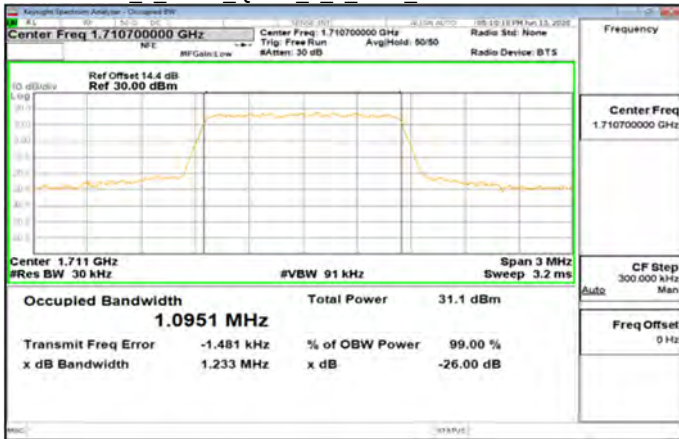


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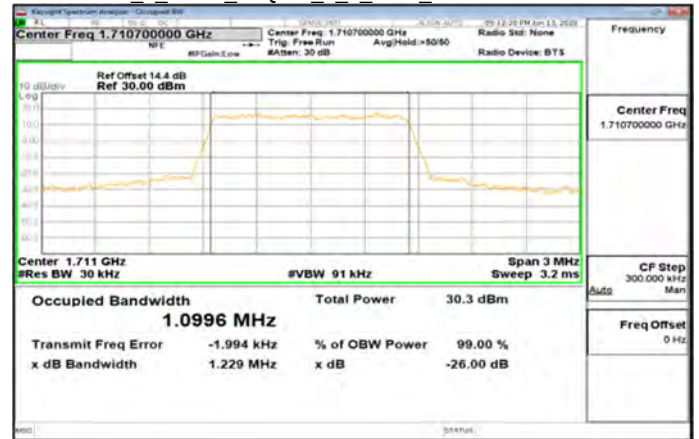
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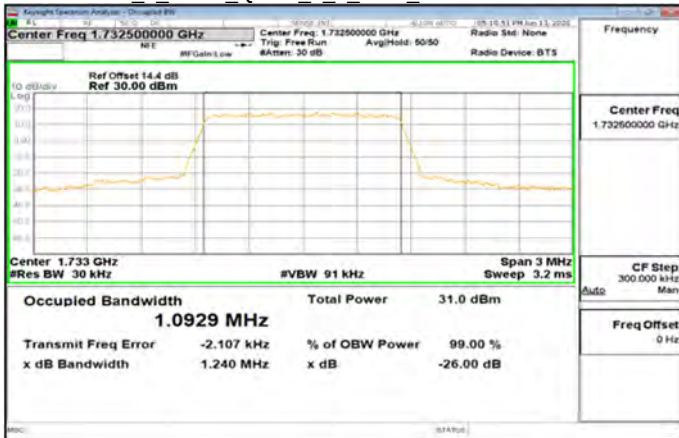
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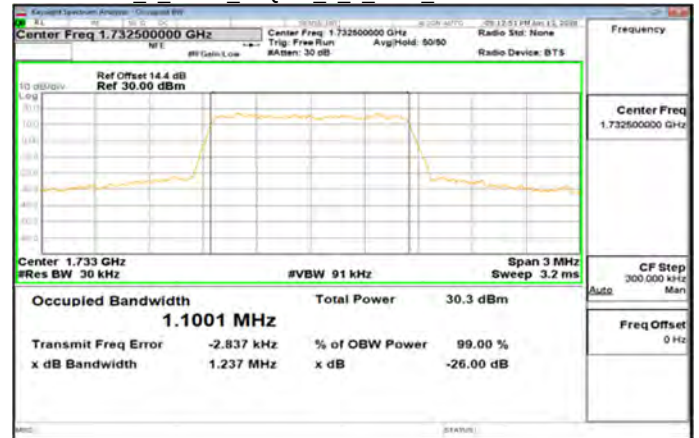
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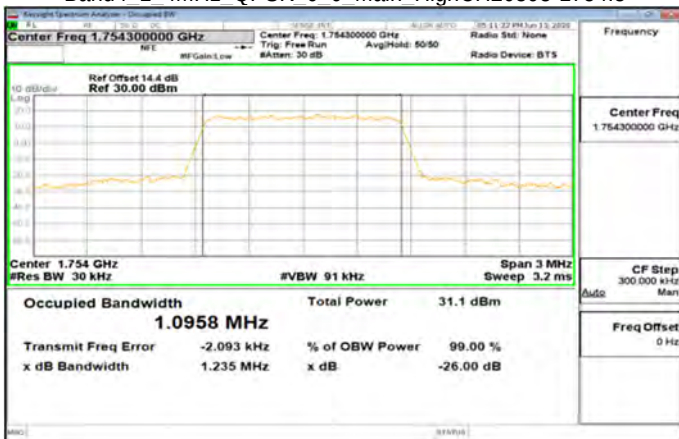
Band4 1 4MHz\_QPSK\_6\_0\_Main\_MidCH20175-1732.5



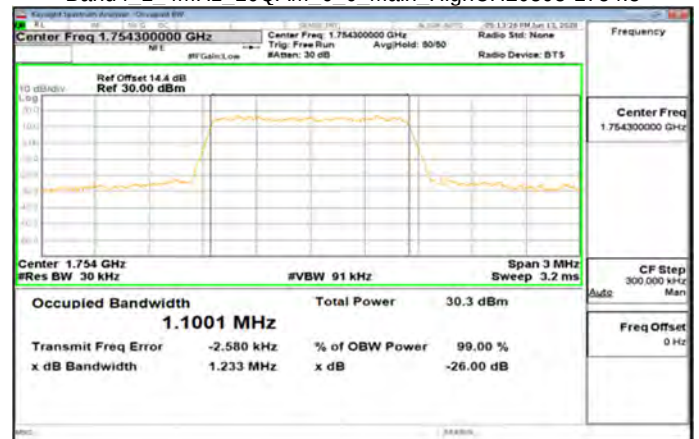
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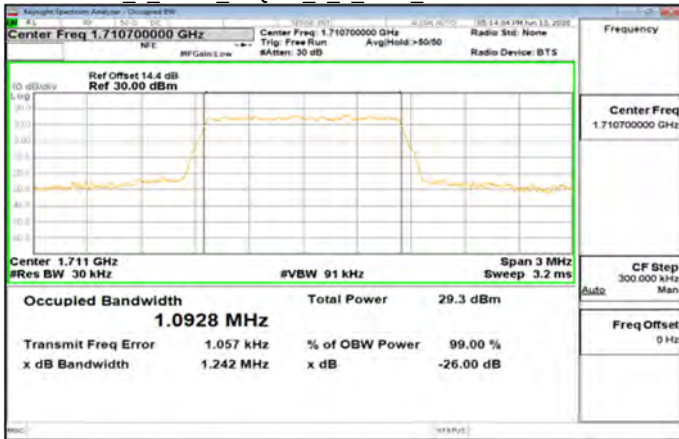


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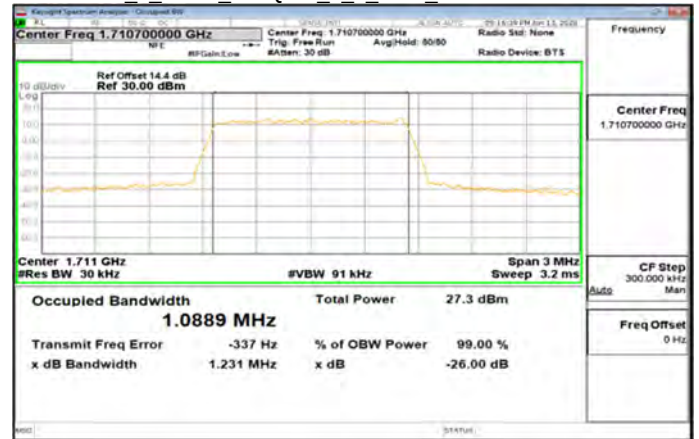
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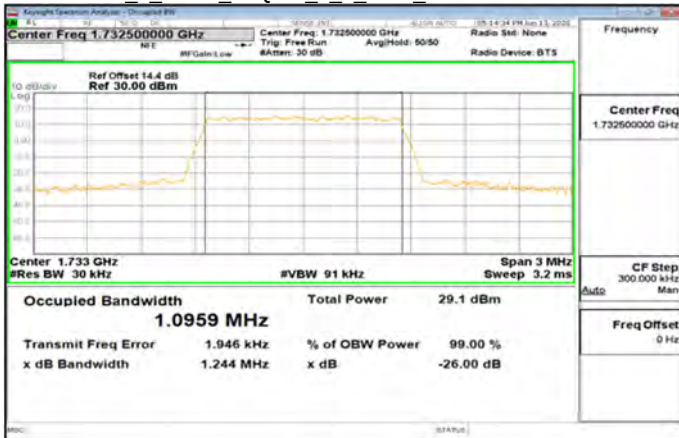
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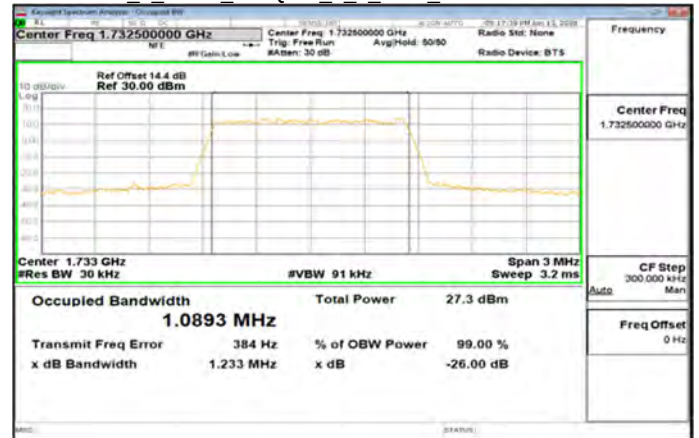
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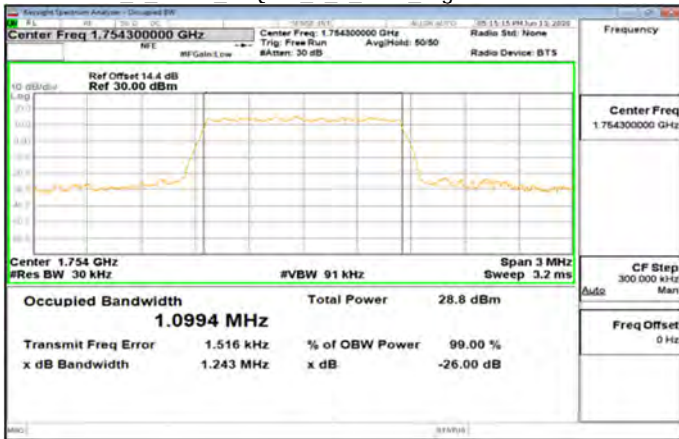
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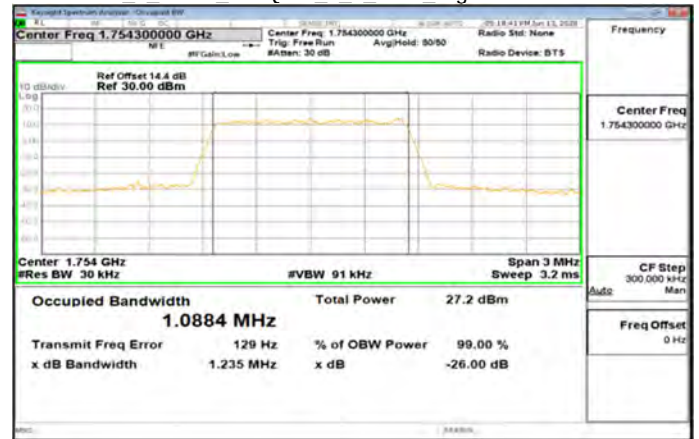
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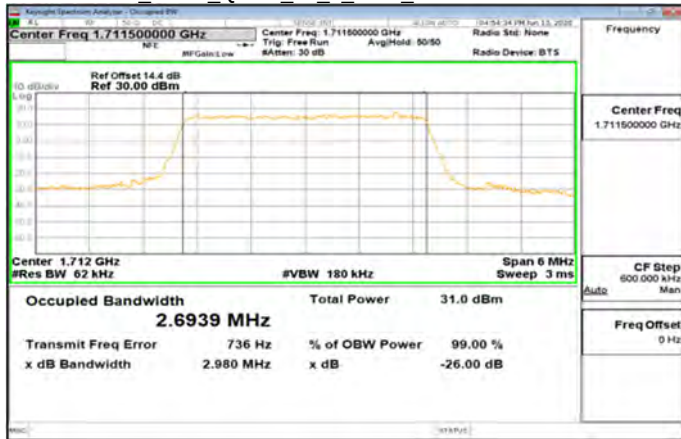


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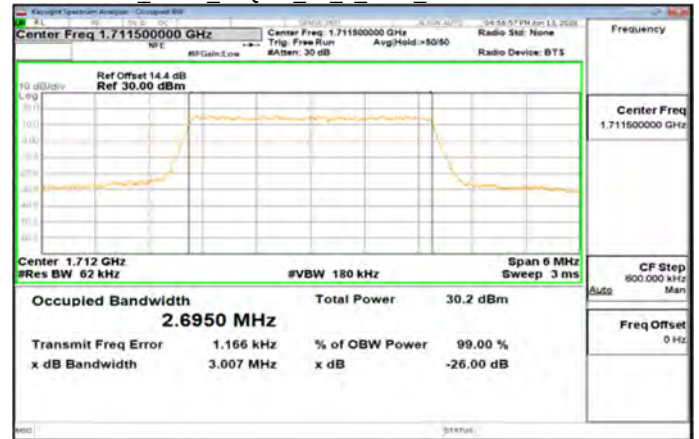
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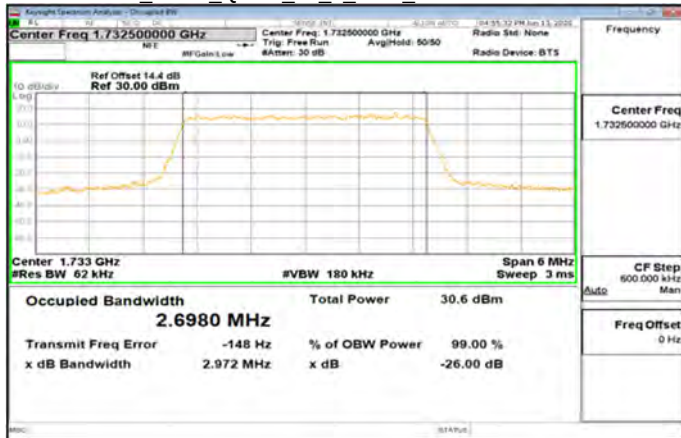
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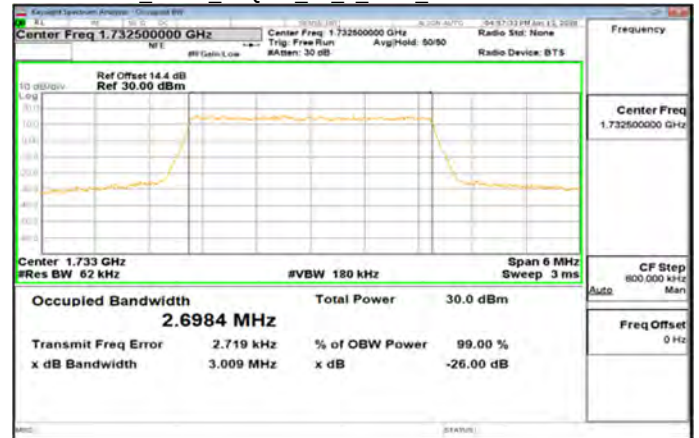
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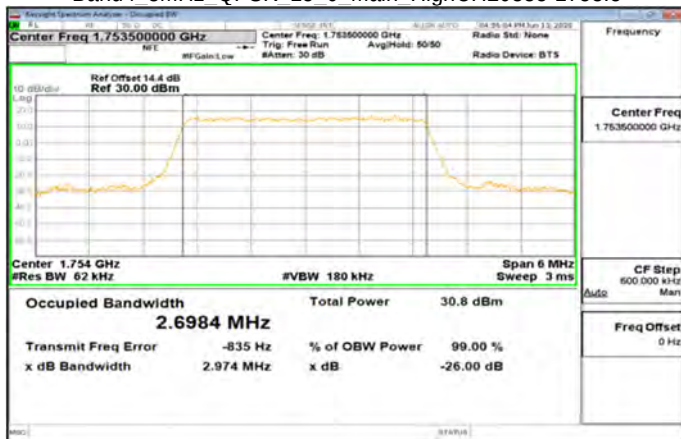
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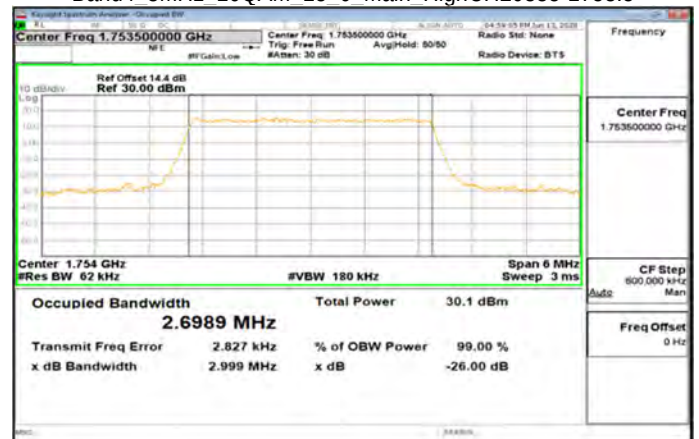
Band4 3MHz\_16QAM\_15\_0\_Main\_MidCH20175-1732.5



Band4 3MHz\_QPSK\_15\_0\_Main\_HighCH20385-1753.5



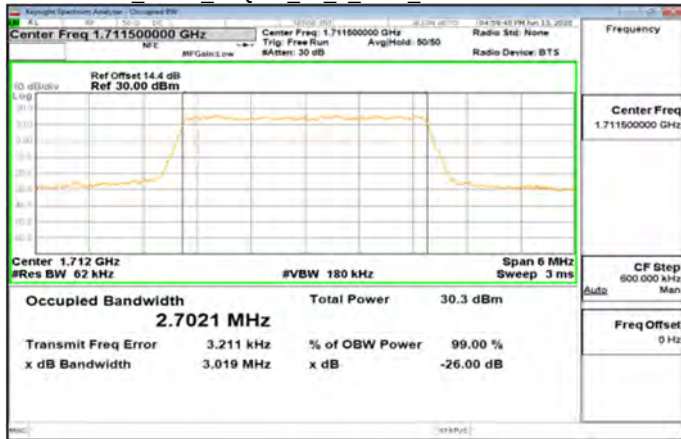
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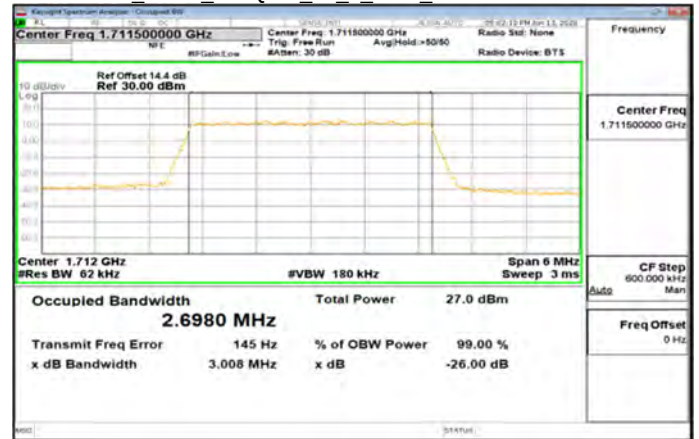
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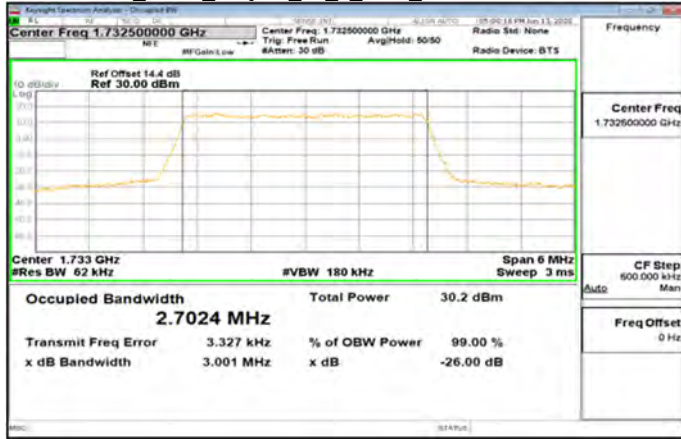
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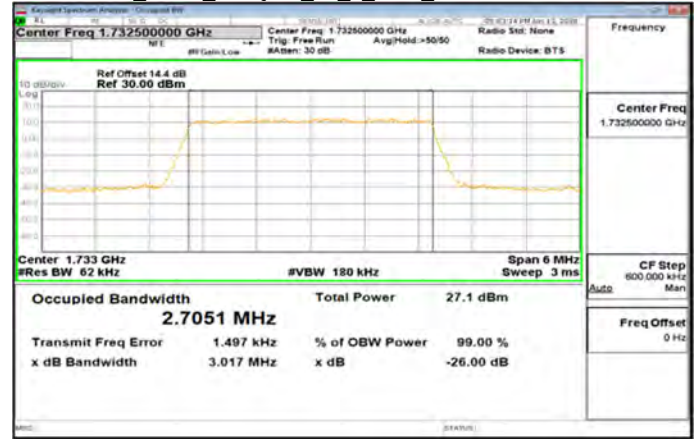
Band4 3MHz 256QAM 15 0 Main LowCH19965-1711.5



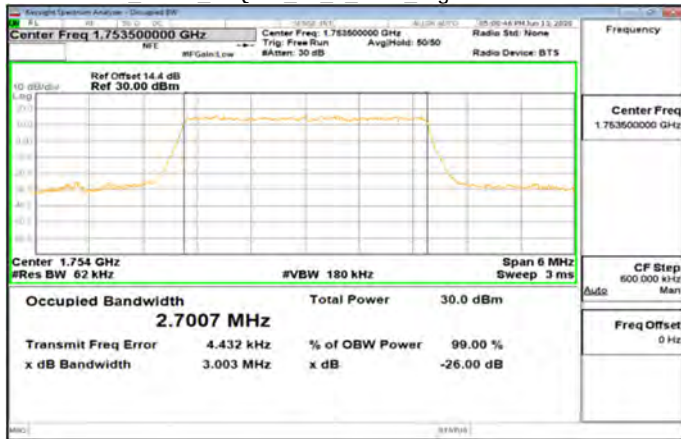
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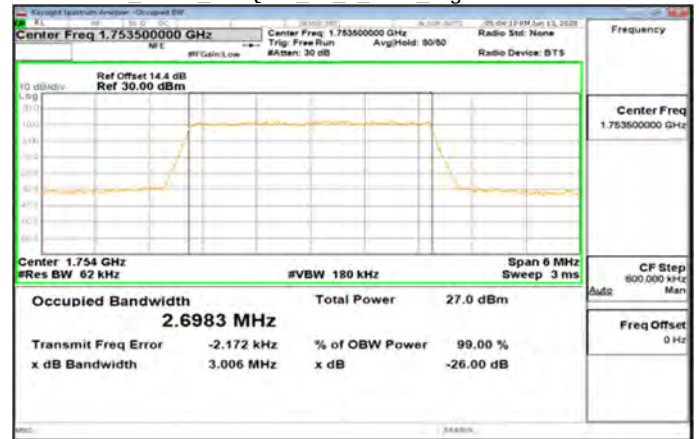
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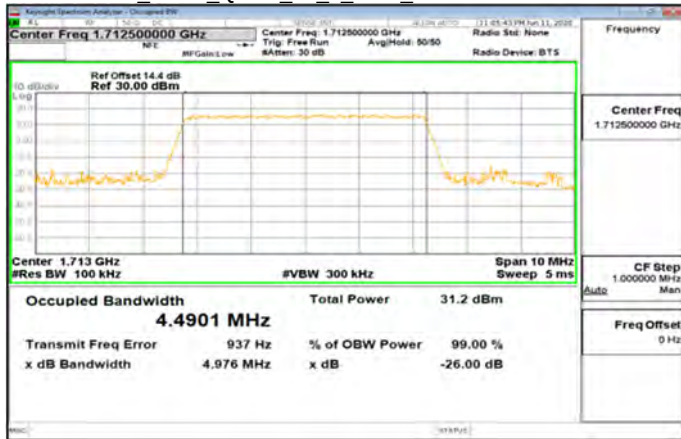


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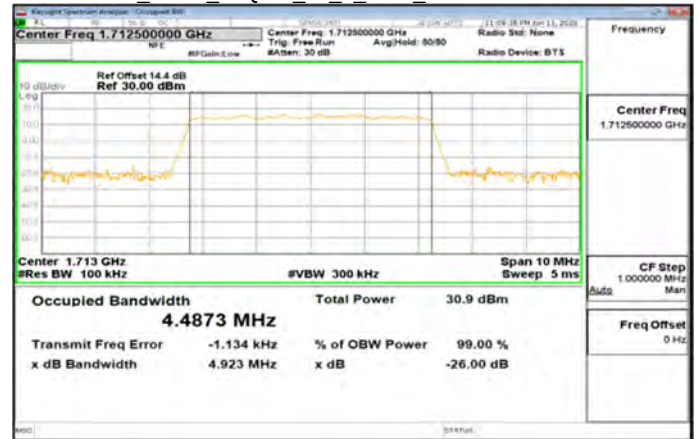
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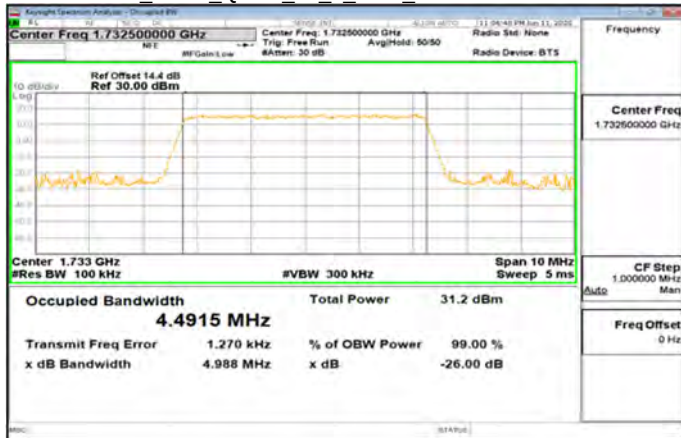
Band4 5MHz QPSK 25 0 Main LowCH19975-1712.5



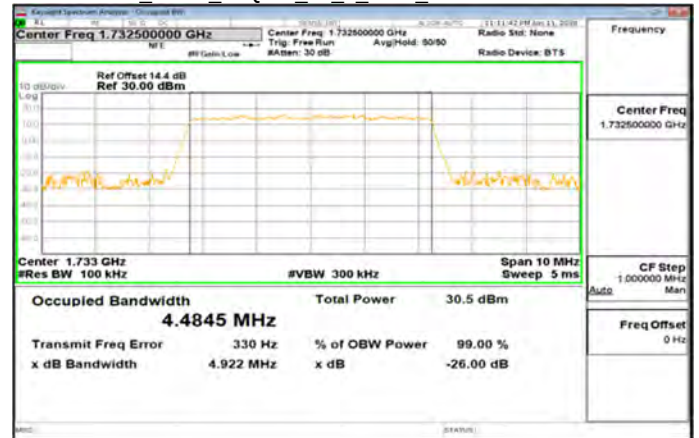
Band4 5MHz 16QAM 25 0 Main LowCH19975-1712.5



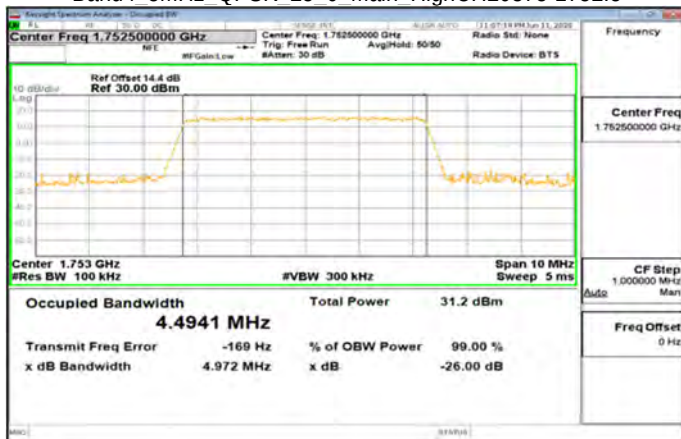
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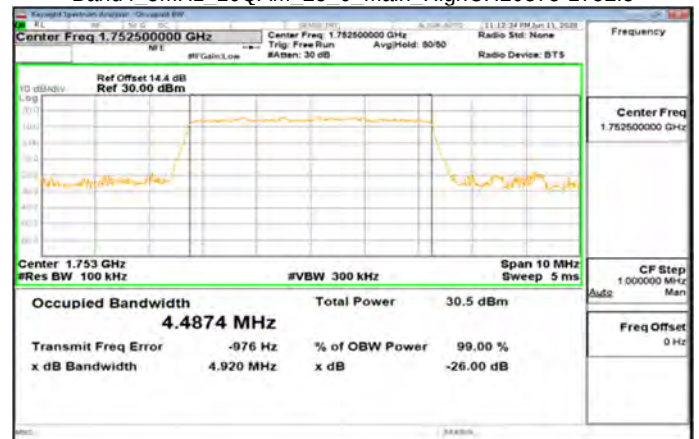
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Band4 5MHz QPSK 25 0 Main HighCH20375-1752.5



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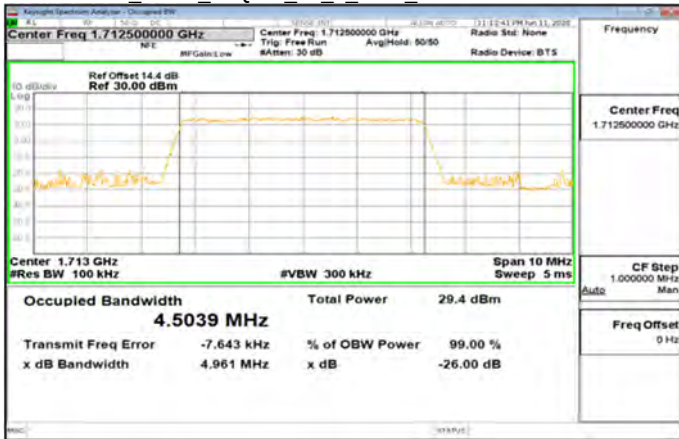


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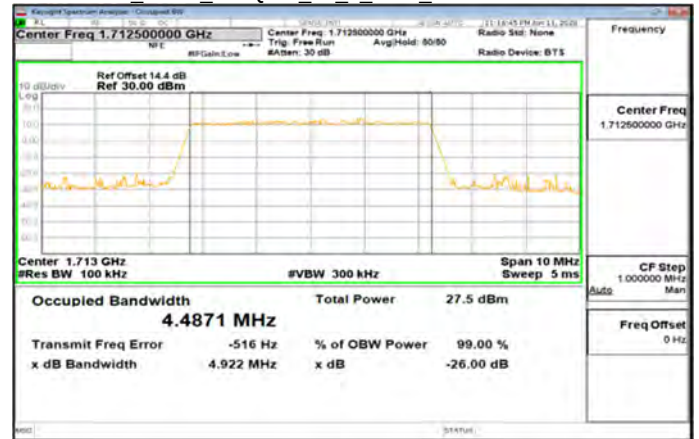
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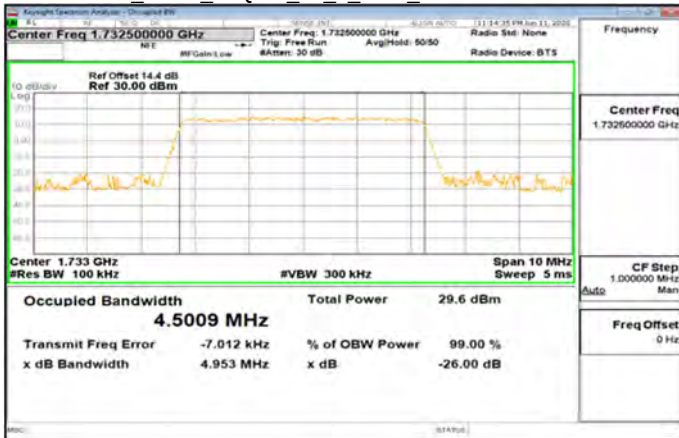
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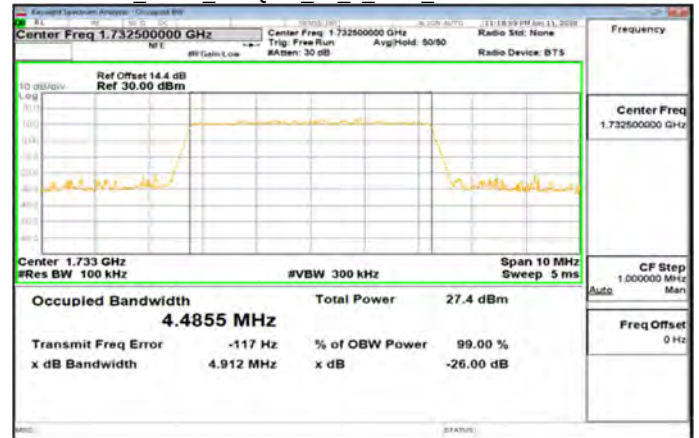
Band4 5MHz 256QAM 25 0 Main LowCH19975-1712.5



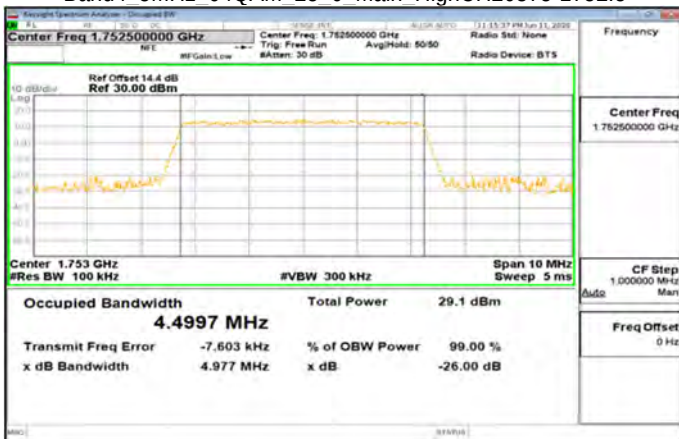
Band4 5MHz 64QAM 25 0 Main MidCH20175-1732.5



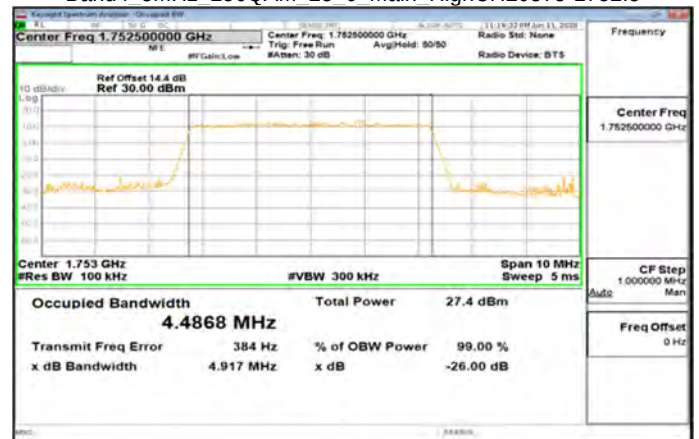
Band4 5MHz 256QAM 25 0 Main MidCH20175-1732.5



Band4 5MHz 64QAM 25 0 Main HighCH20375-1752.5



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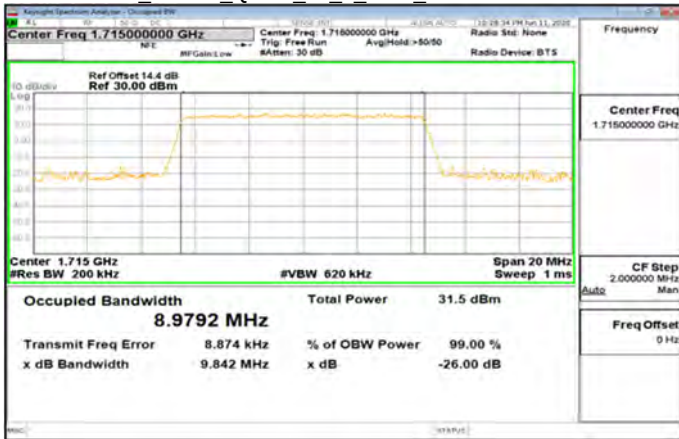


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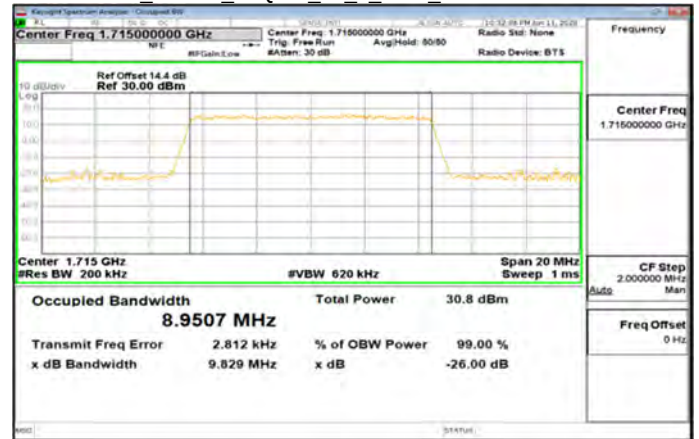
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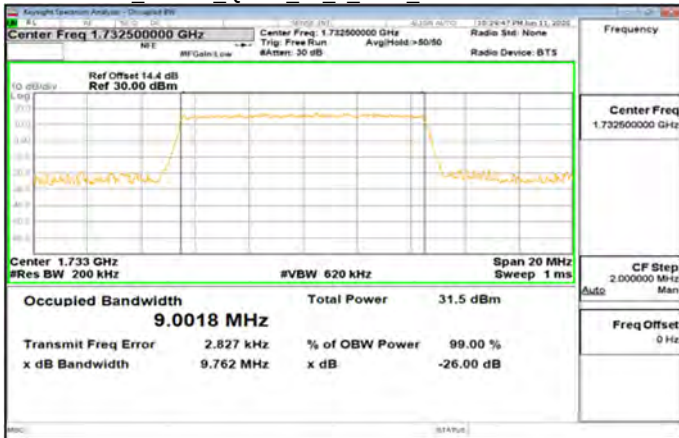
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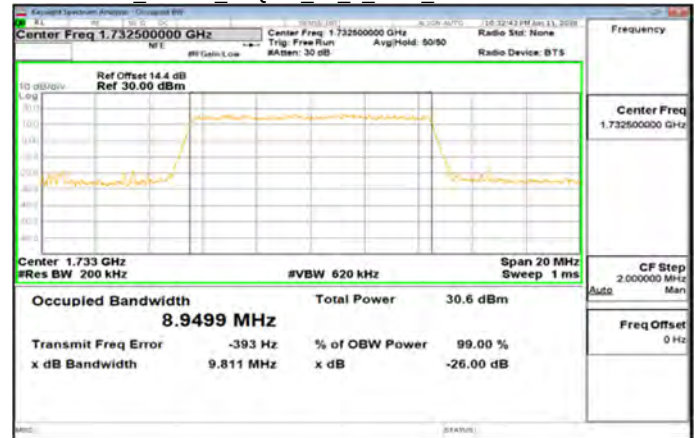
Band4 10MHz 16QAM 50 0 Main LowCH20000-1715



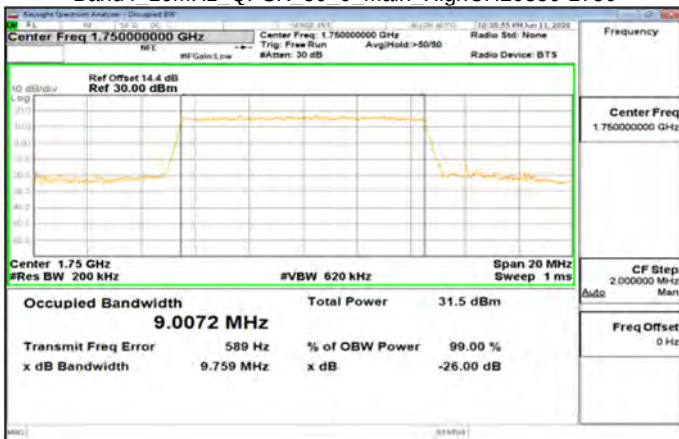
Band4 10MHz QPSK 50 0 Main MidCH20175-1732.5



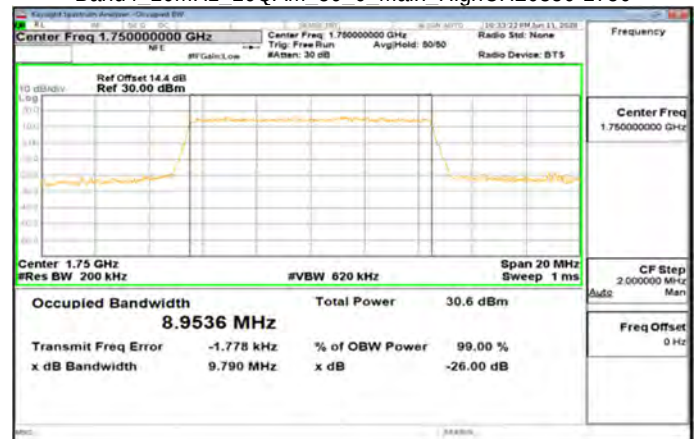
Band4 10MHz 16QAM 50 0 Main MidCH20175-1732.5



Band4 10MHz QPSK 50 0 Main HighCH20350-1750



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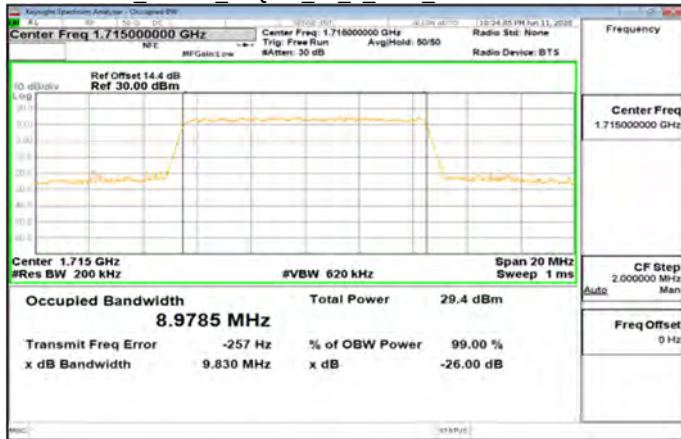


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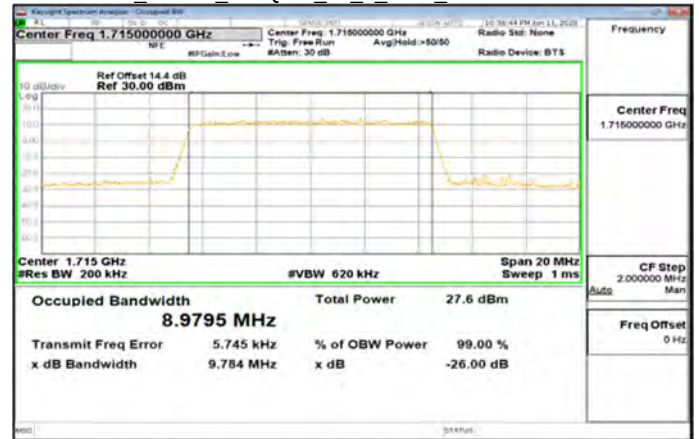
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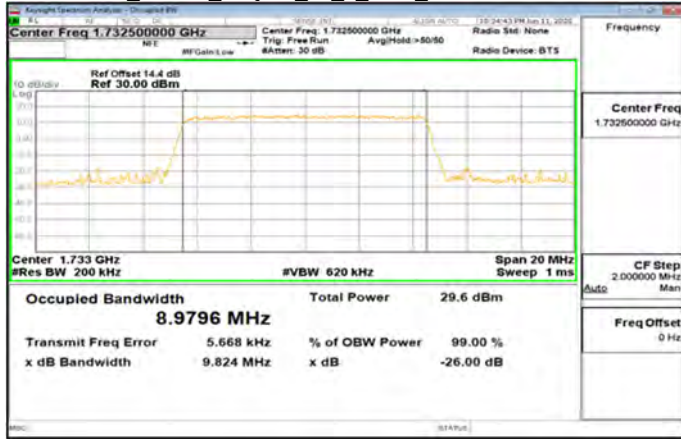
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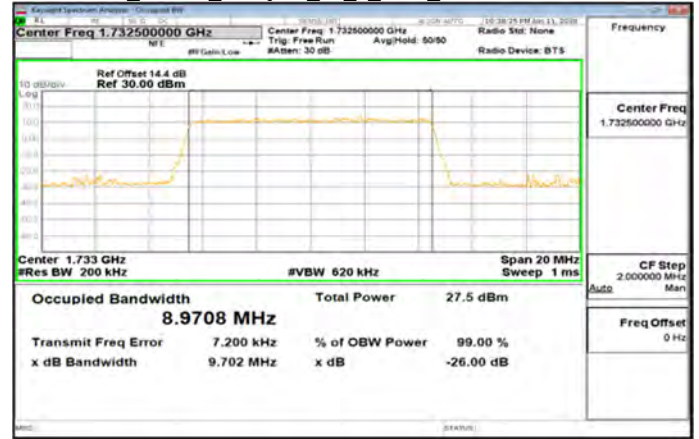
Band4 10MHz 256QAM 50 0 Main LowCH20000-1715



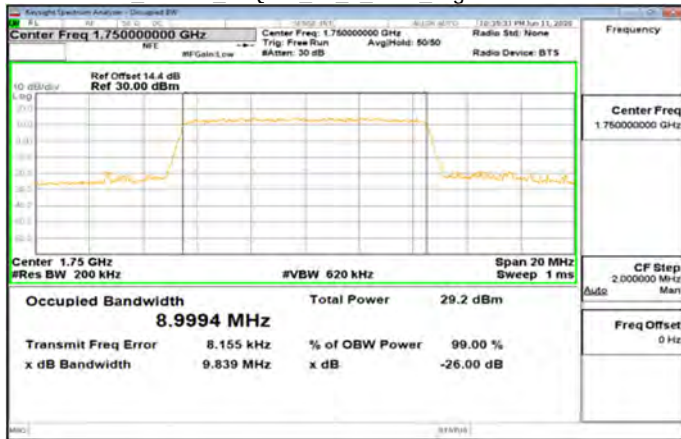
Band4 10MHz 64QAM 50 0 Main MidCH20175-1732.5



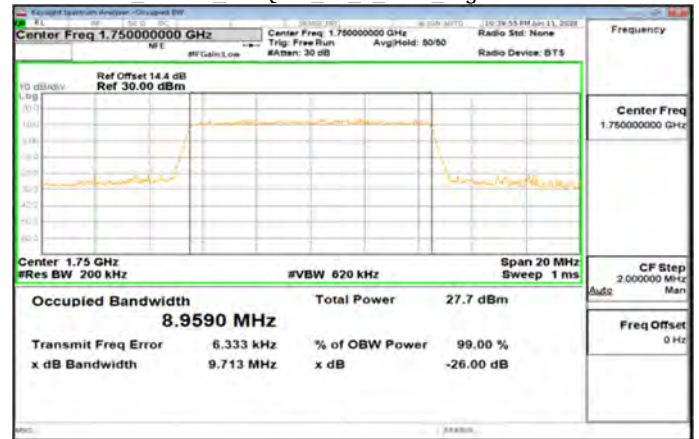
Band4 10MHz 256QAM 50 0 Main MidCH20175-1732.5



Band4 10MHz 64QAM 50 0 Main HighCH20350-1750



Band4 10MHz 256QAM 50 0 Main HighCH20350-1750

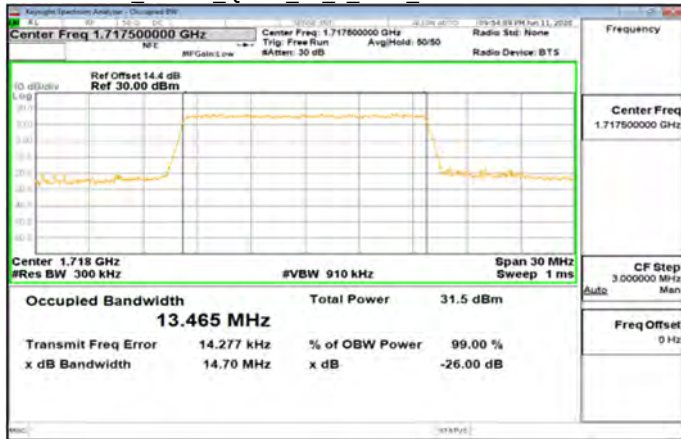


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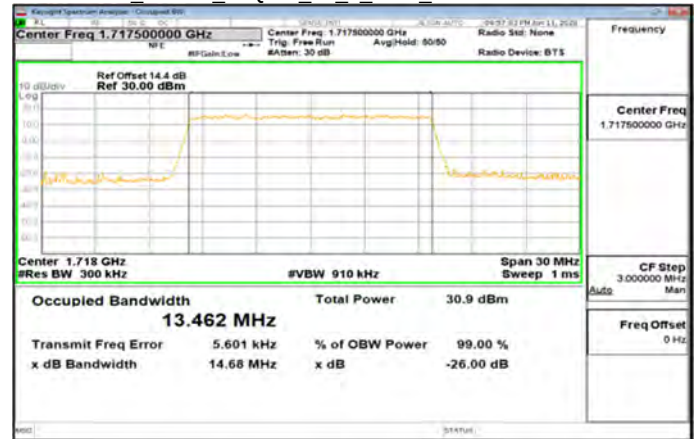
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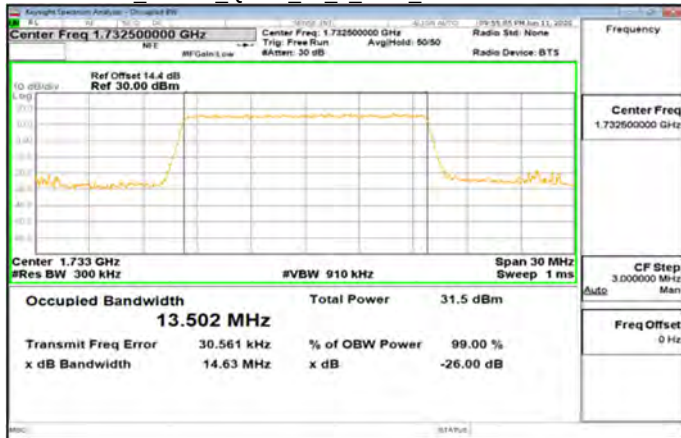
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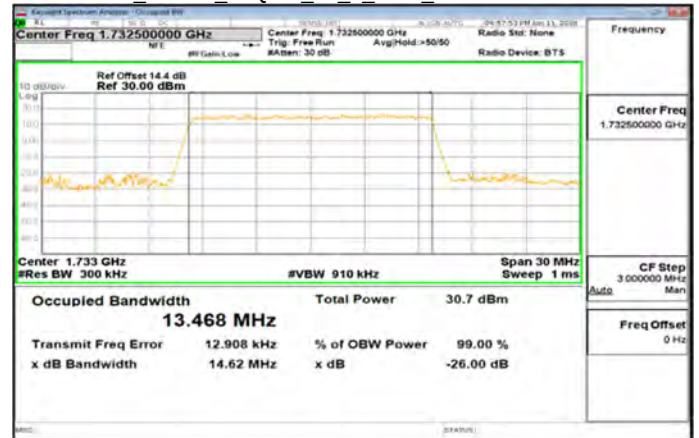
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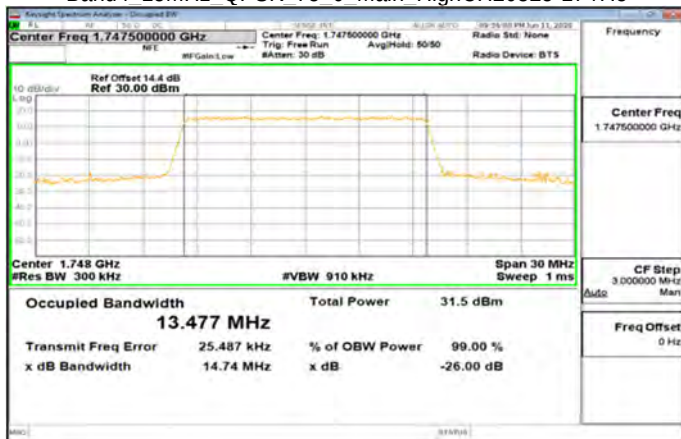
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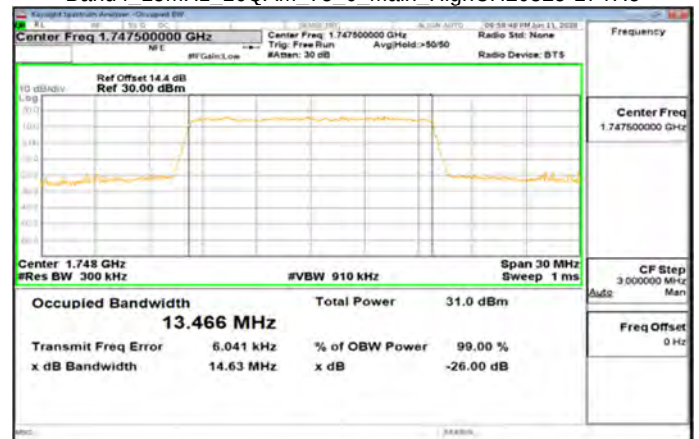
Band4 15MHz\_16QAM\_75\_0\_Main\_MidCH20175-1732.5



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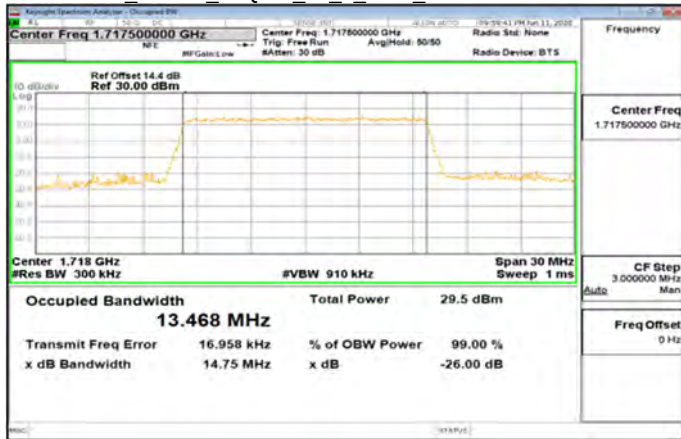


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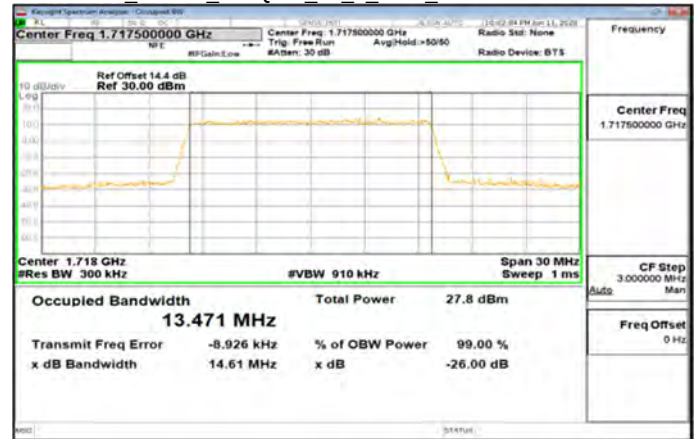
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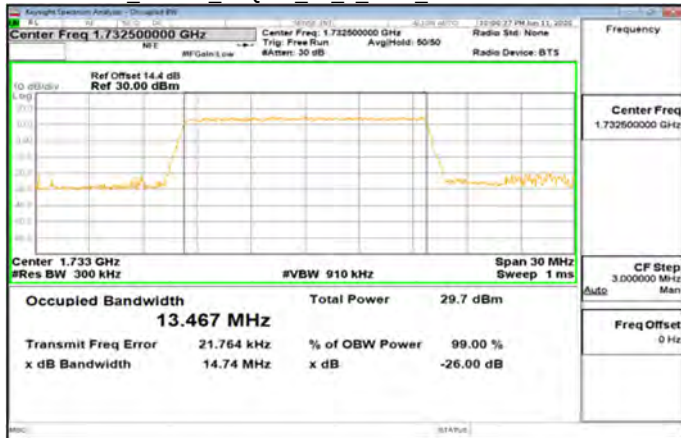
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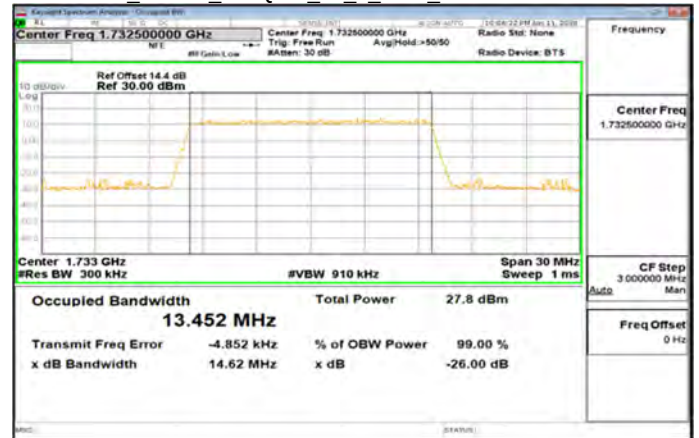
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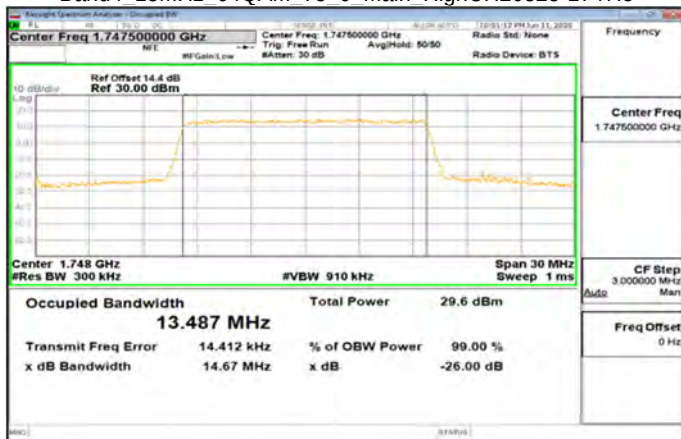
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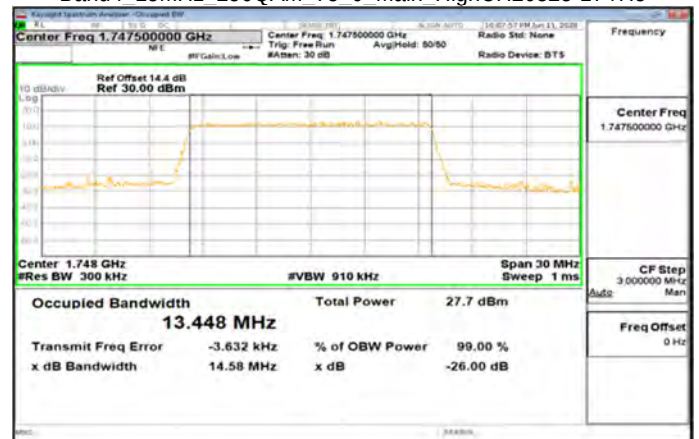
Band4 15MHz 256QAM 75 0 Main MidCH20175-1732.5



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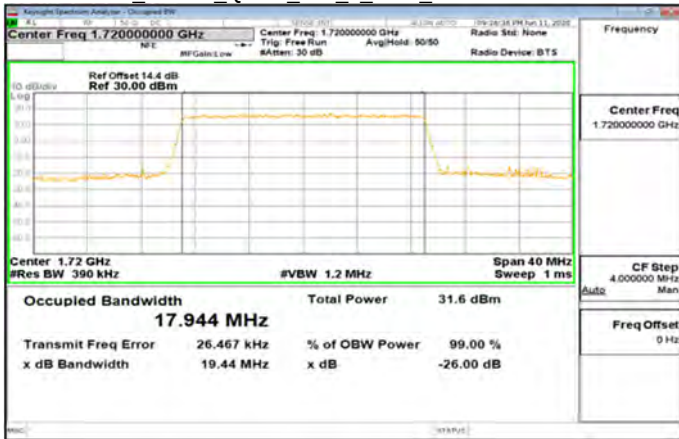


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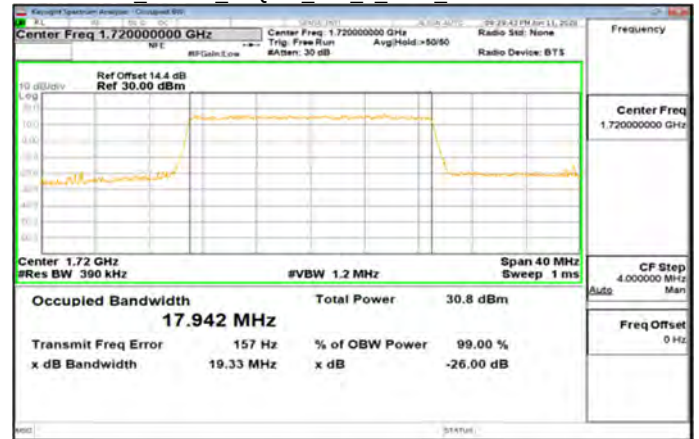
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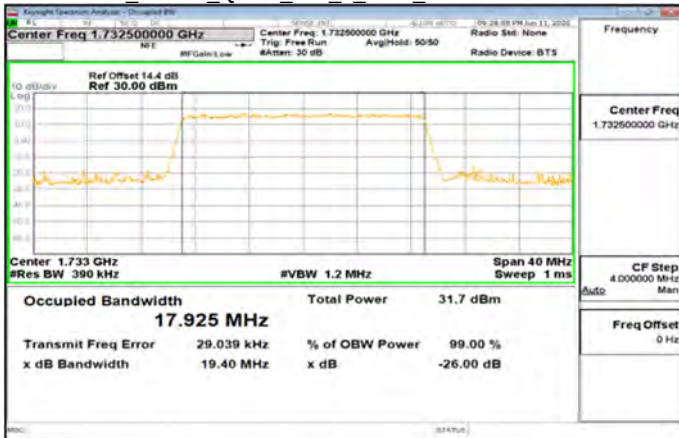
Band4 20MHz\_QPSK\_100\_0\_Main\_LowCH20050-1720



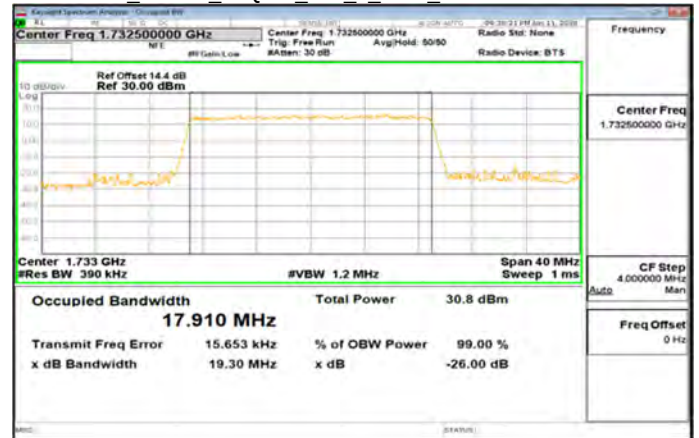
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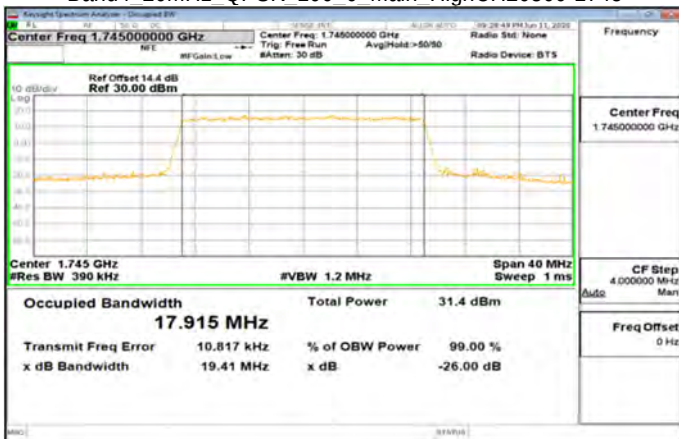
Band4 20MHz\_QPSK\_100\_0\_Main\_MidCH20175-1732.5



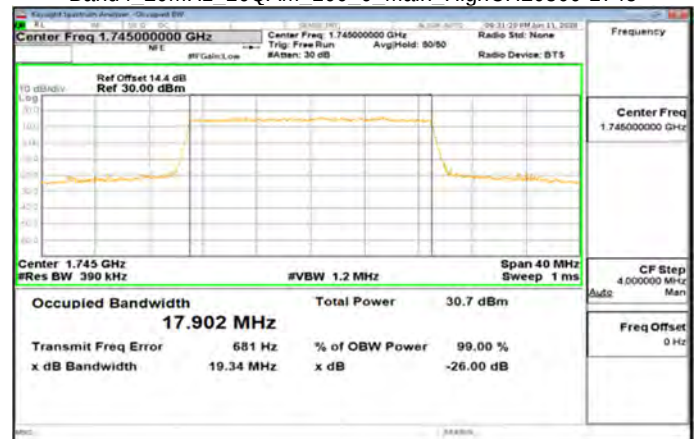
Band4 20MHz\_16QAM\_100\_0\_Main\_MidCH20175-1732.5



Band4 20MHz\_QPSK\_100\_0\_Main\_HighCH20300-1745



Band4 20MHz\_16QAM\_100\_0\_Main\_HighCH20300-1745

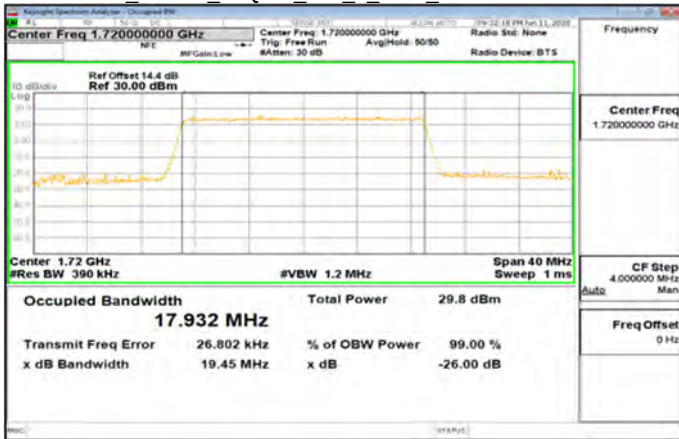


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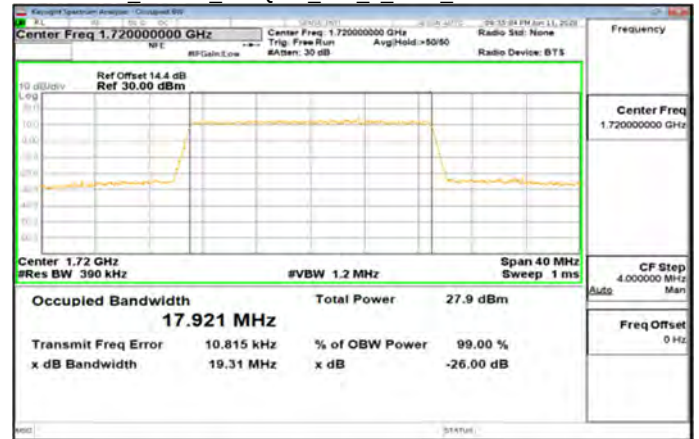
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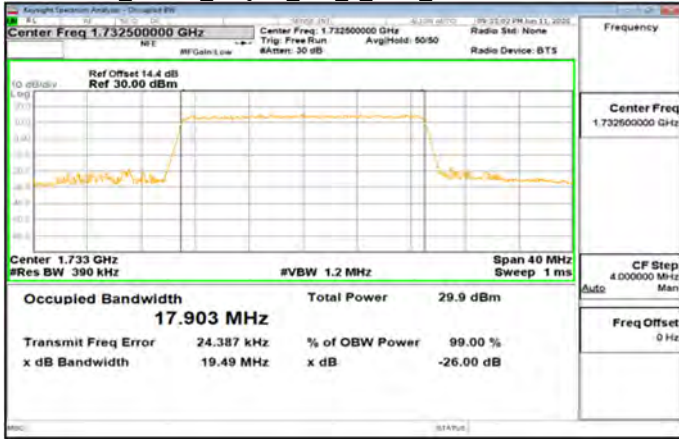
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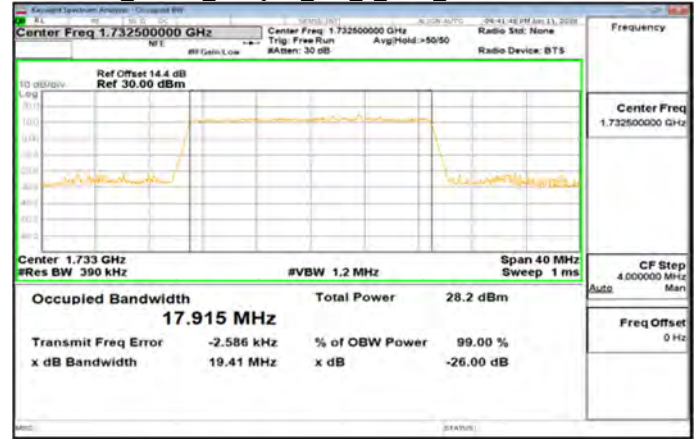
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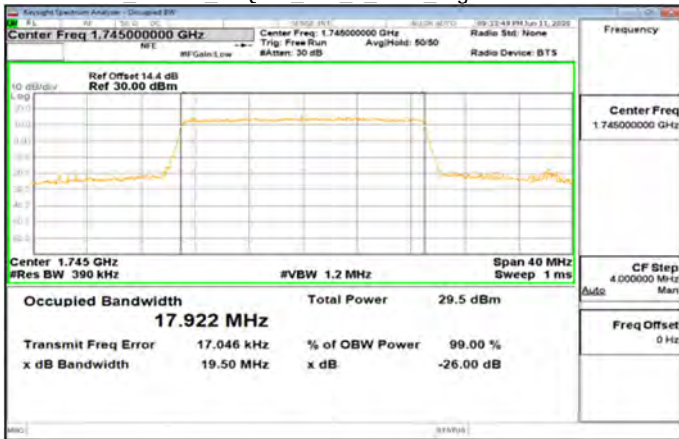
Band4 20MHz\_64QAM\_100\_0\_Main\_MidCH20175-1732.5



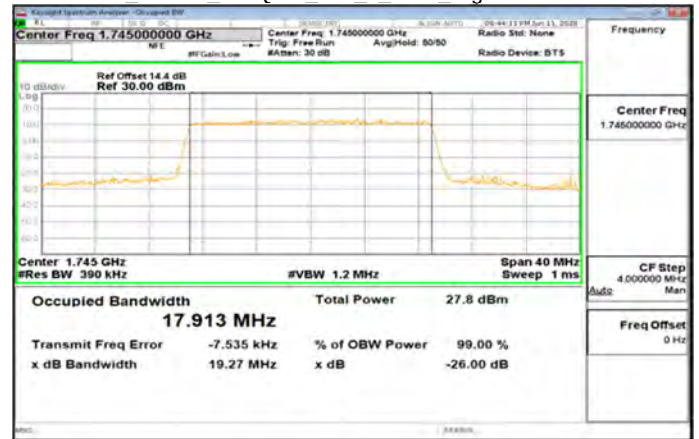
Band4 20MHz\_256QAM\_100\_0\_Main\_MidCH20175-1732.5



Band4 20MHz\_64QAM\_100\_0\_Main\_HighCH20300-1745



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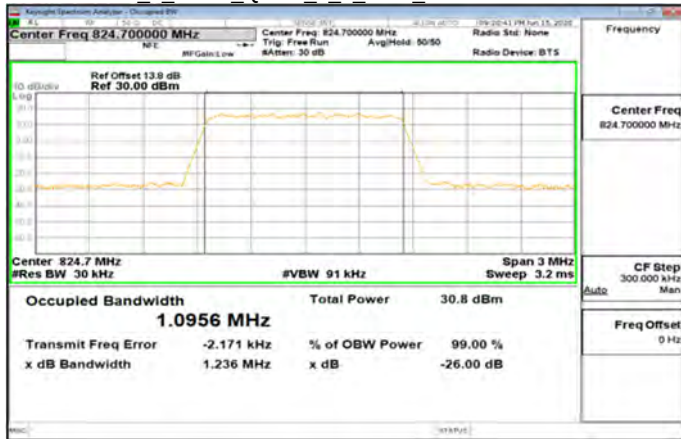


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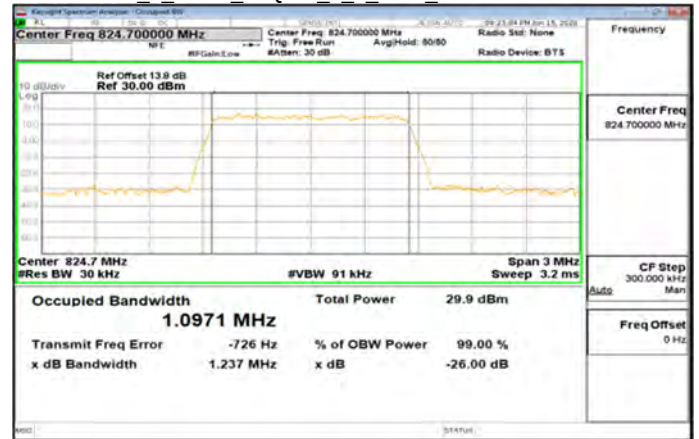
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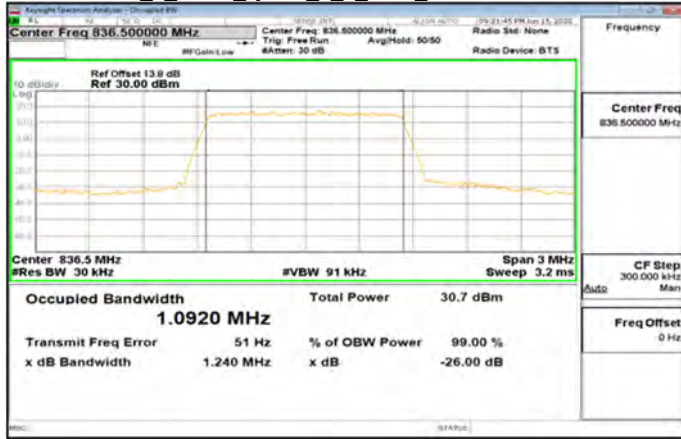
Band5 1 4MHz\_QPSK 6 0 Main\_LowCH20407-824.7



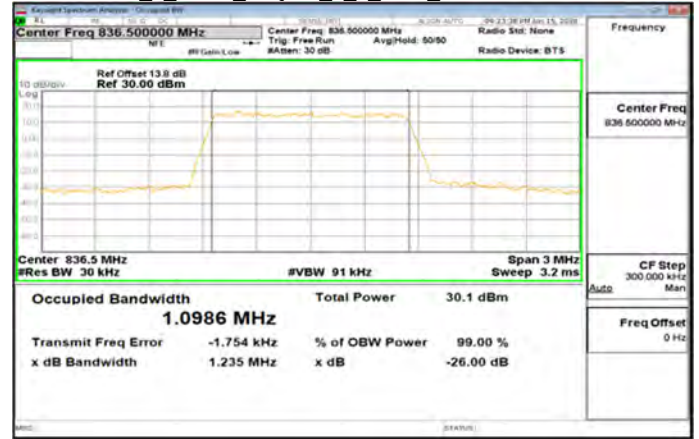
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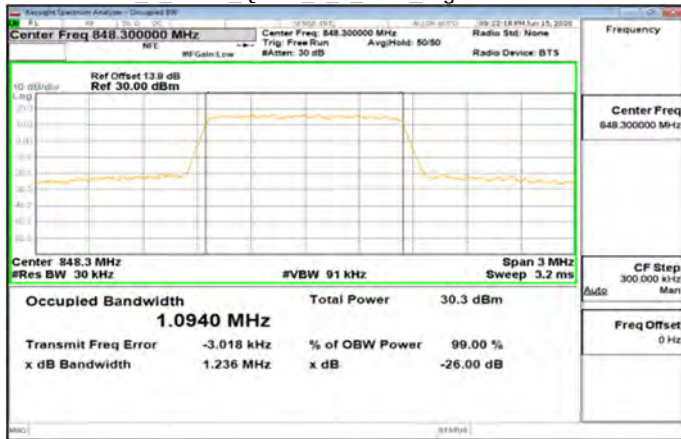
Band5 1 4MHz\_QPSK 6 0 Main\_MidCH20525-836.5



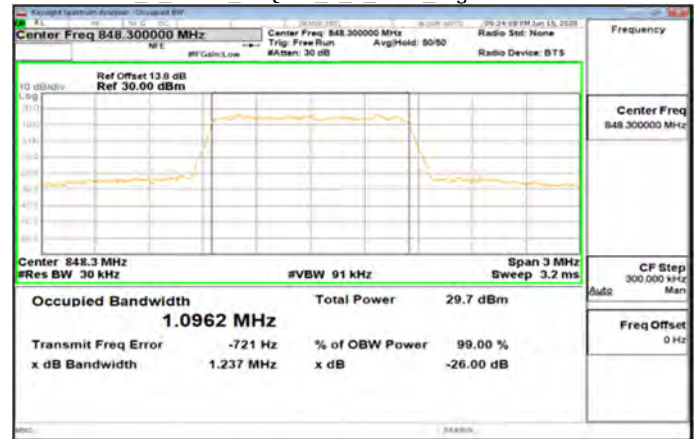
Band5 1 4MHz\_16QAM 6 0 Main\_MidCH20525-836.5



Band5 1 4MHz\_QPSK 6 0 Main\_HighCH20643-848.3



Band5 1 4MHz\_16QAM 6 0 Main\_HighCH20643-848.3

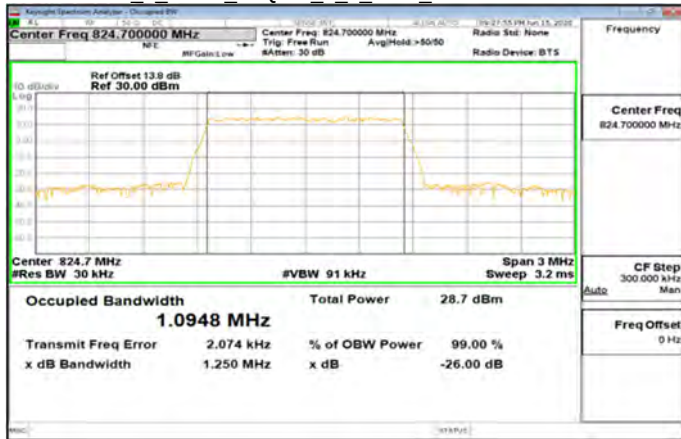


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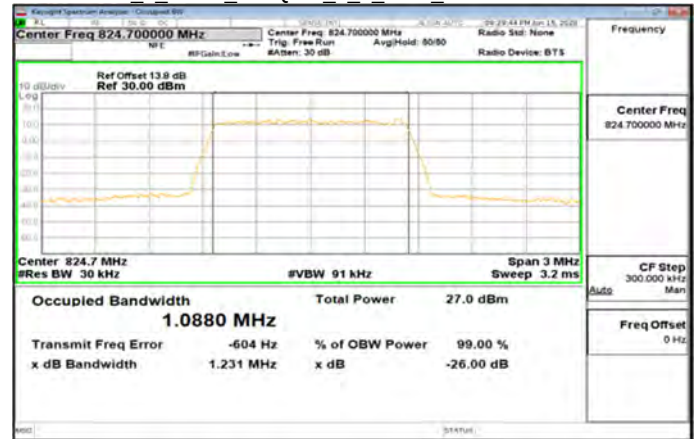
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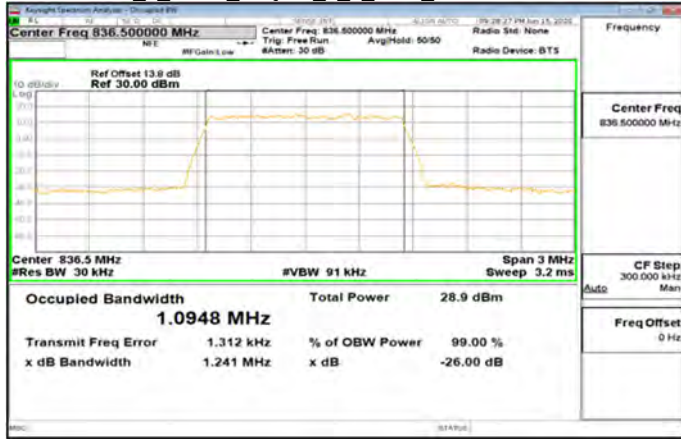
Band5 1 4MHz 64QAM 6 0 Main LowCH20407-824.7



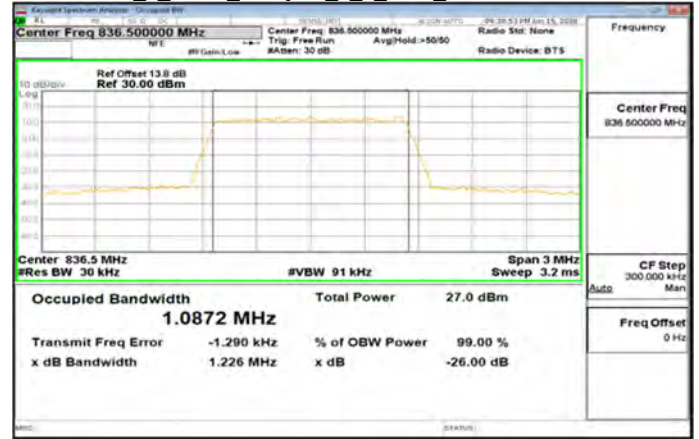
Band5 1 4MHz 256QAM 6 0 Main LowCH20407-824.7



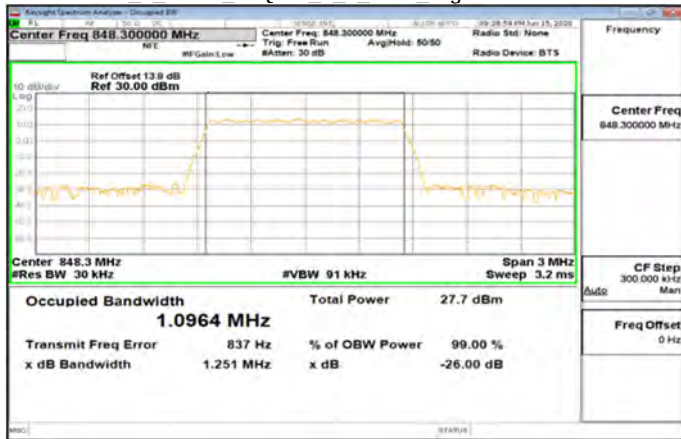
Band5 1 4MHz 64QAM 6 0 Main MidCH20525-836.5



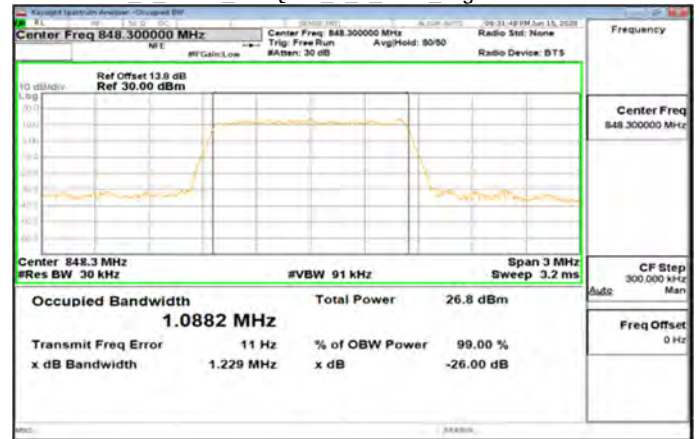
Band5 1 4MHz 256QAM 6 0 Main MidCH20525-836.5



Band5 1 4MHz 64QAM 6 0 Main HighCH20643-848.3



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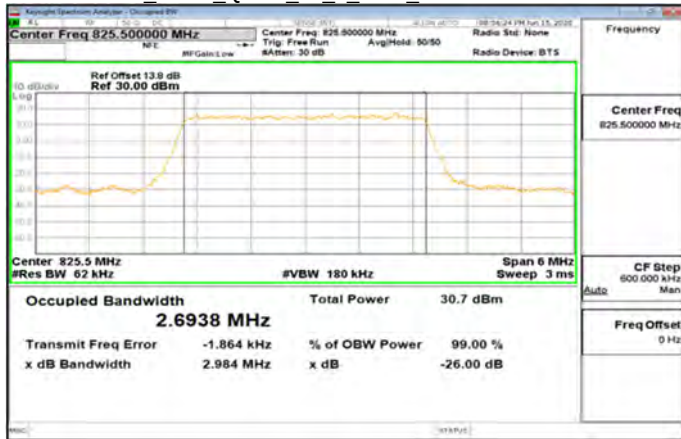


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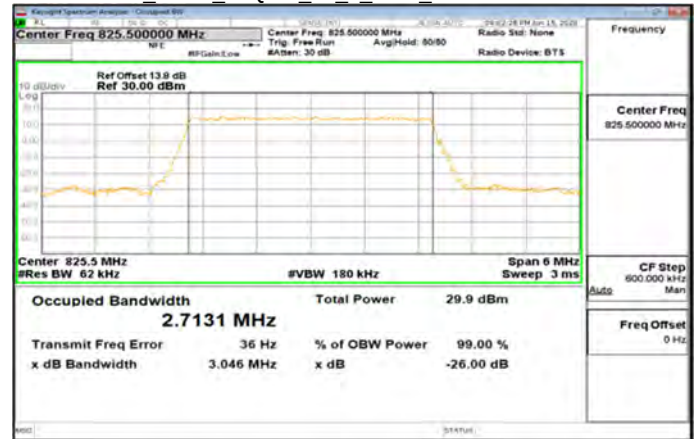
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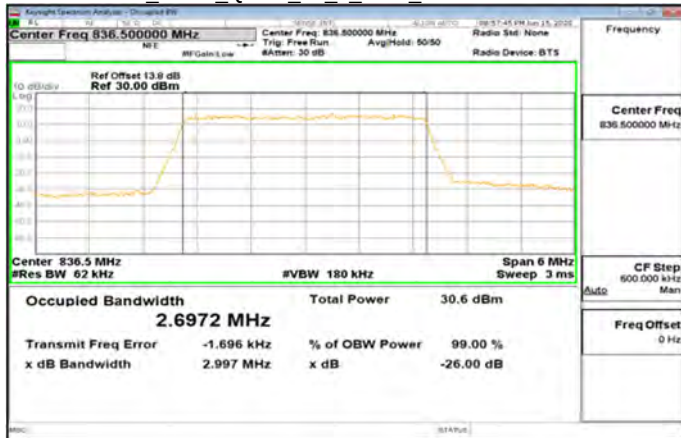
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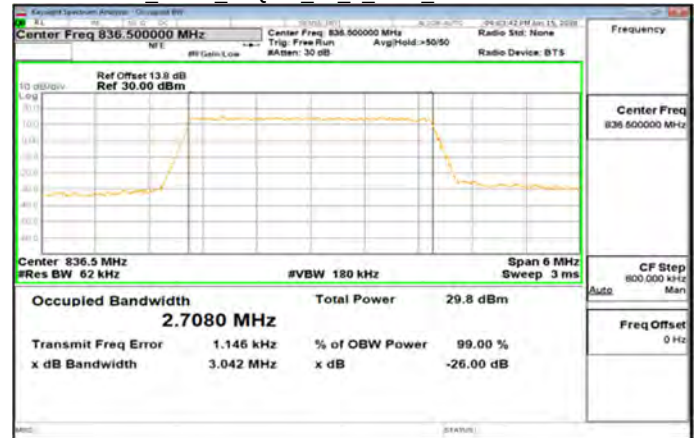
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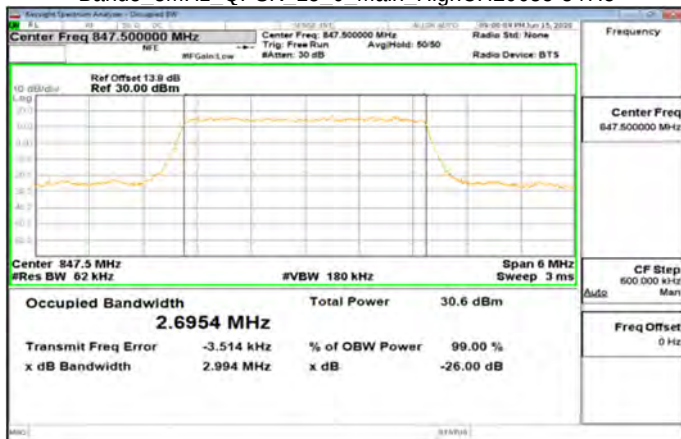
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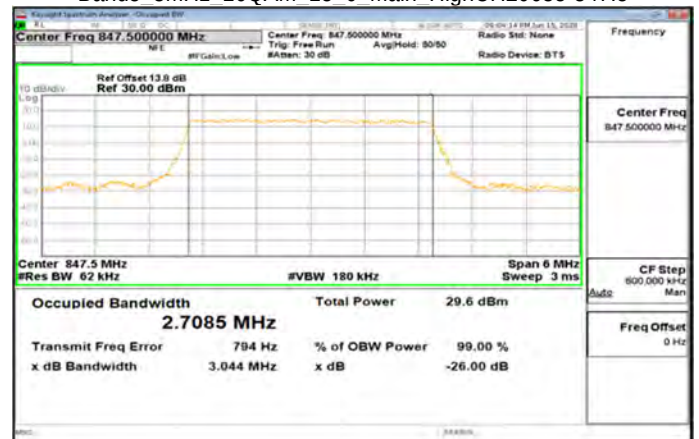
Band5 3MHz\_16QAM\_15\_0\_Main\_MidCH20525-836.5



Band5 3MHz\_QPSK\_15\_0\_Main\_HighCH20635-847.5



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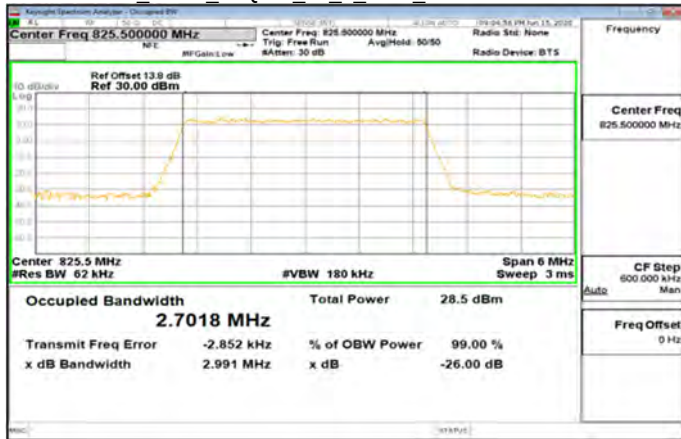


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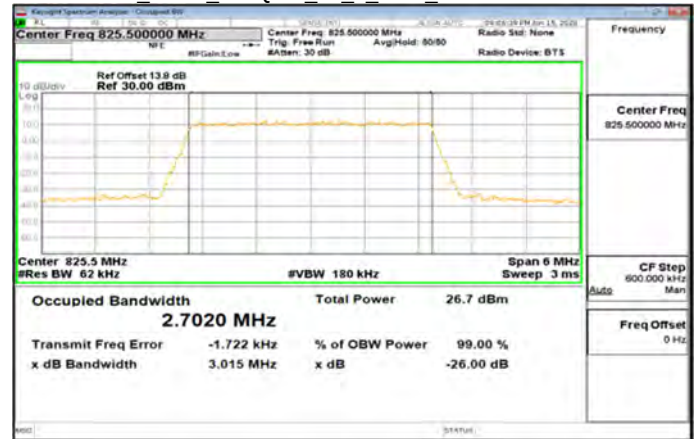
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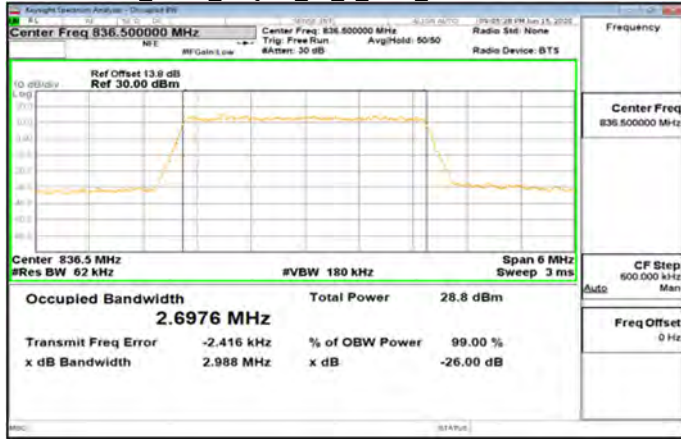
Band5 3MHz 64QAM 15 0 Main LowCH20415-825.5



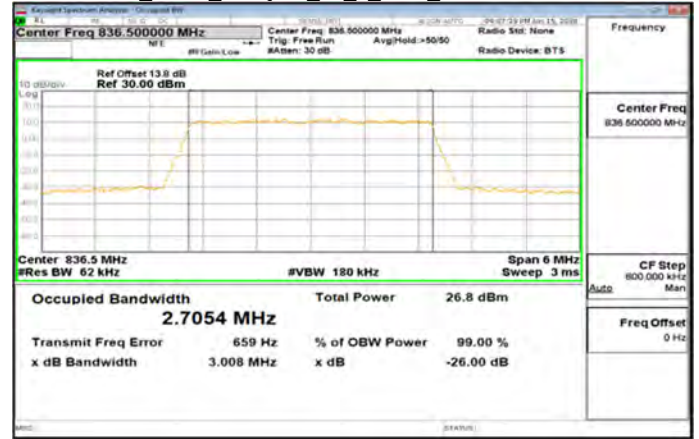
Band5 3MHz 256QAM 15 0 Main LowCH20415-825.5



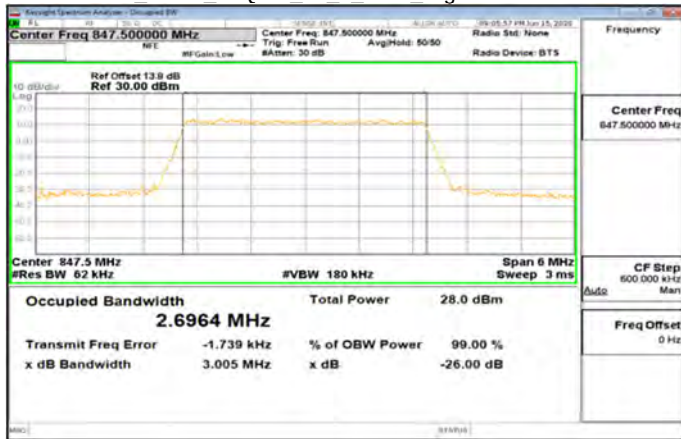
Band5 3MHz 64QAM 15 0 Main MidCH20525-836.5



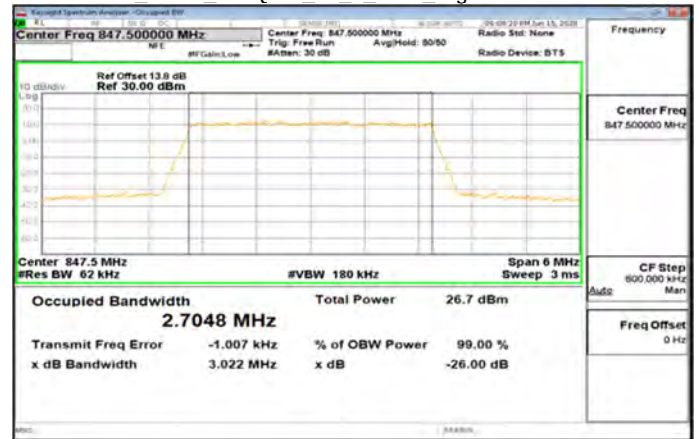
Band5 3MHz 256QAM 15 0 Main MidCH20525-836.5



Band5 3MHz 64QAM 15 0 Main HighCH20635-847.5



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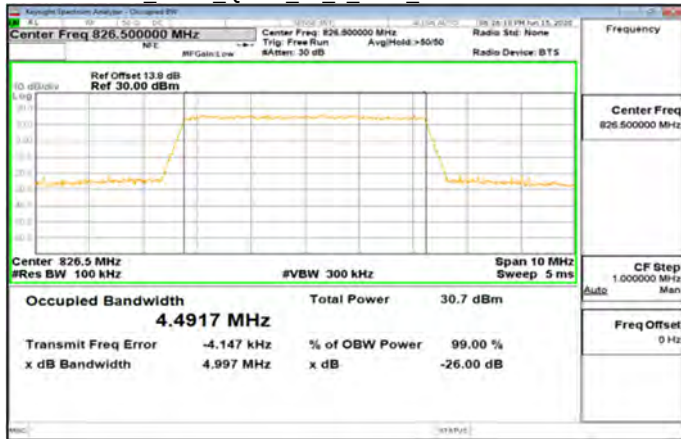


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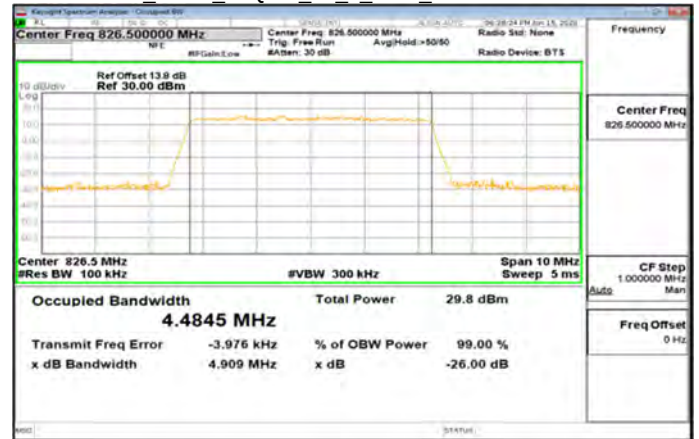
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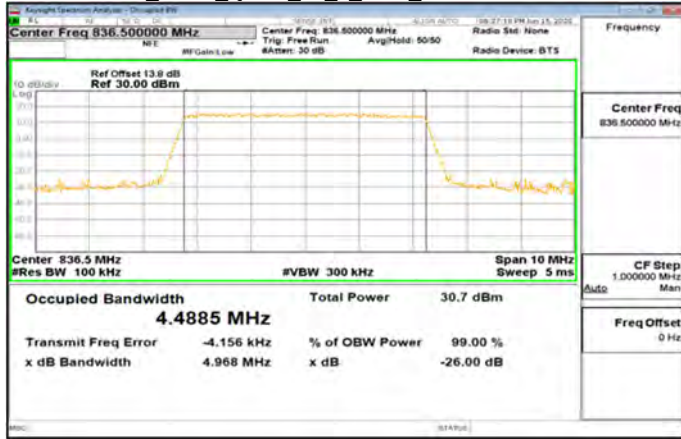
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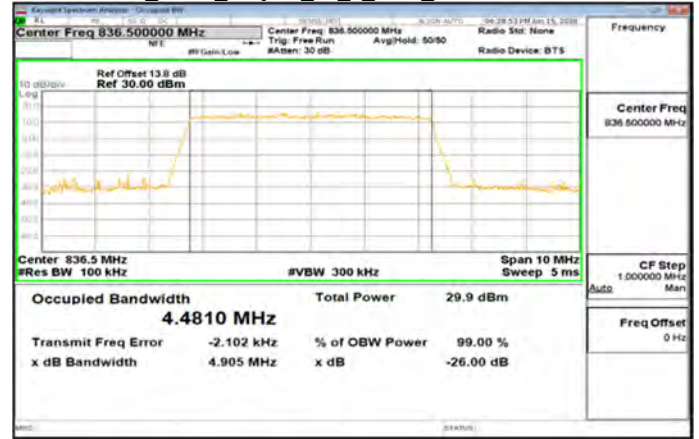
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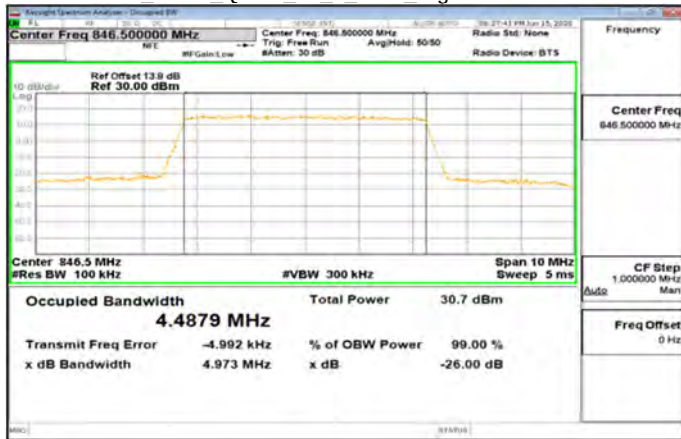
Band5 5MHz\_QPSK\_25\_0\_Main\_MidCH20525-836.5



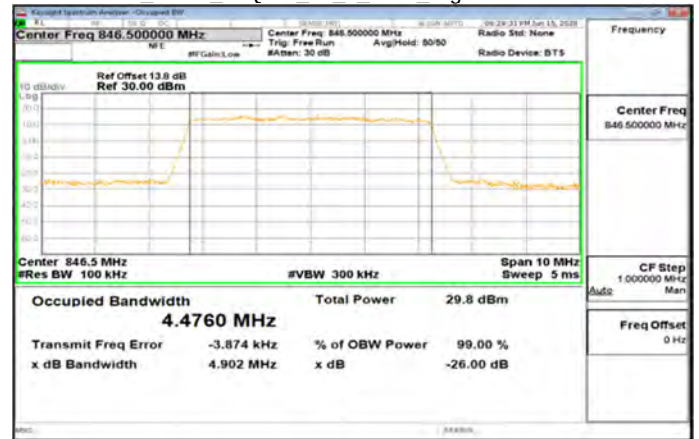
Band5 5MHz\_16QAM\_25\_0\_Main\_MidCH20525-836.5



Band5 5MHz\_QPSK\_25\_0\_Main\_HighCH20625-846.5



Band5 5MHz\_16QAM\_25\_0\_Main\_HighCH20625-846.5

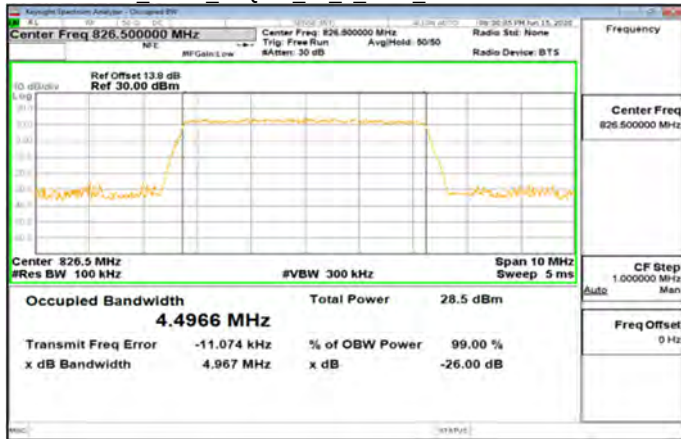


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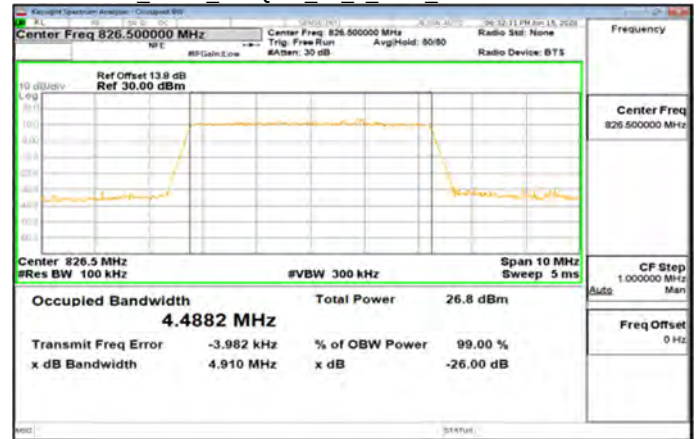
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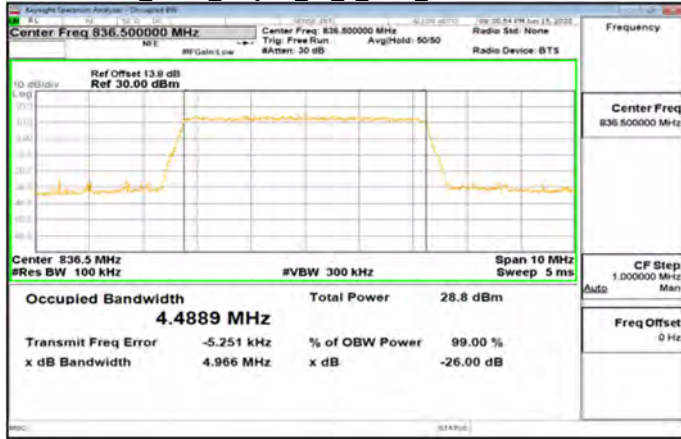
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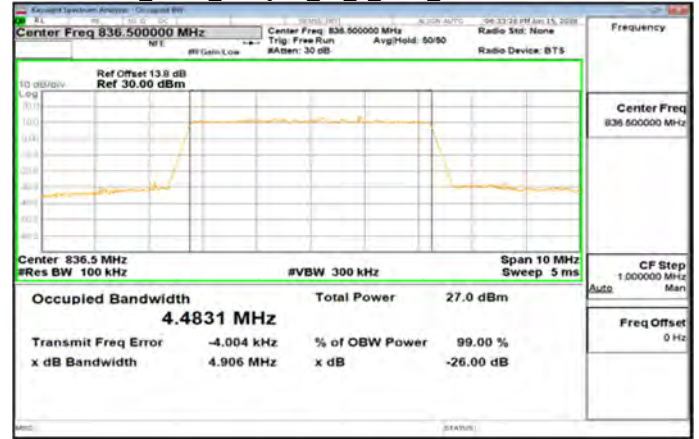
Band5 5MHz 256QAM 25 0 Main LowCH20425-826.5



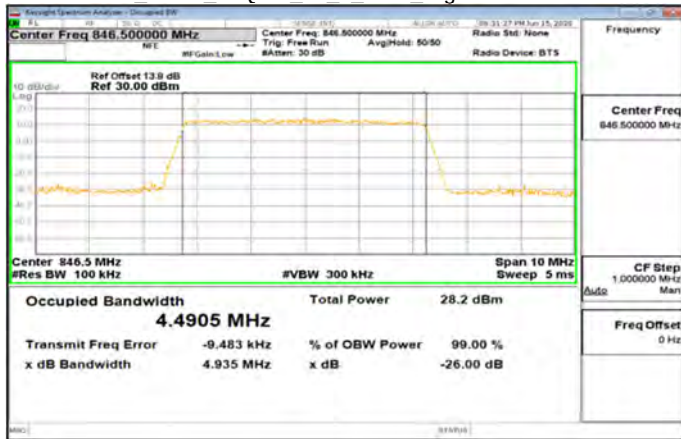
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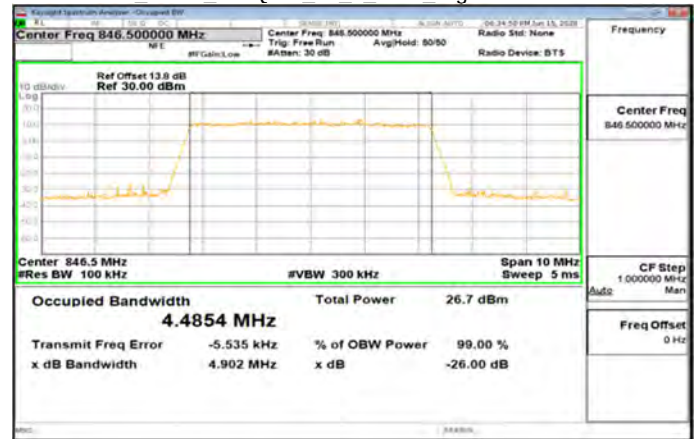
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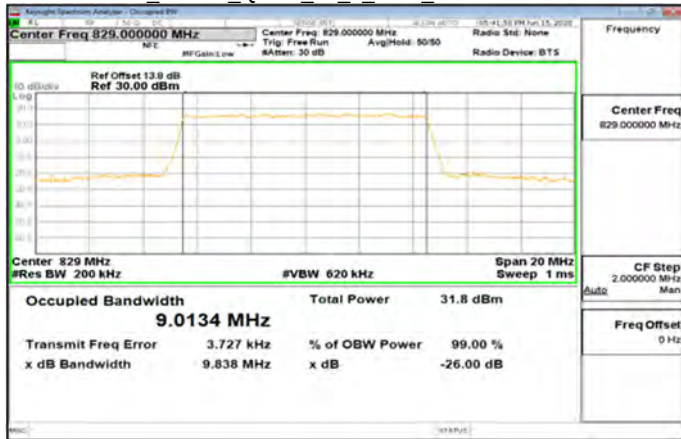


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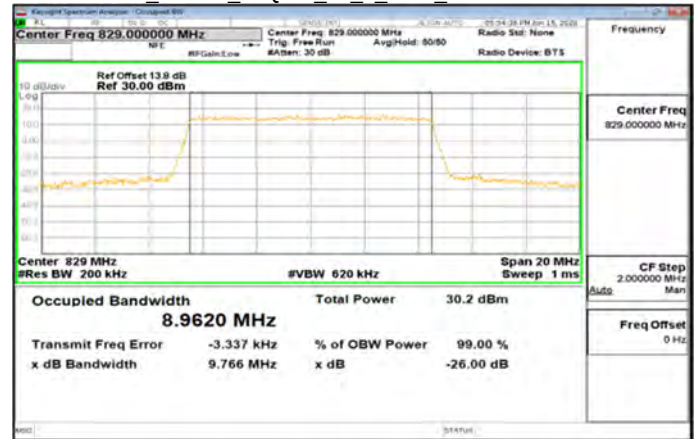
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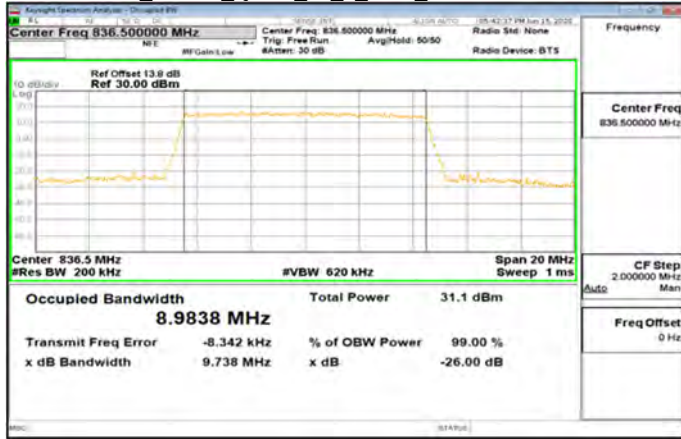
Band5 10MHz\_QPSK 50 0 Main LowCH20450-829



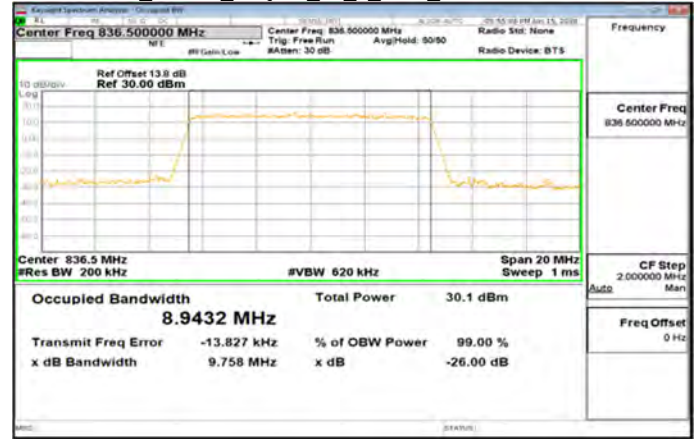
Band5 10MHz\_16QAM 50 0 Main LowCH20450-829



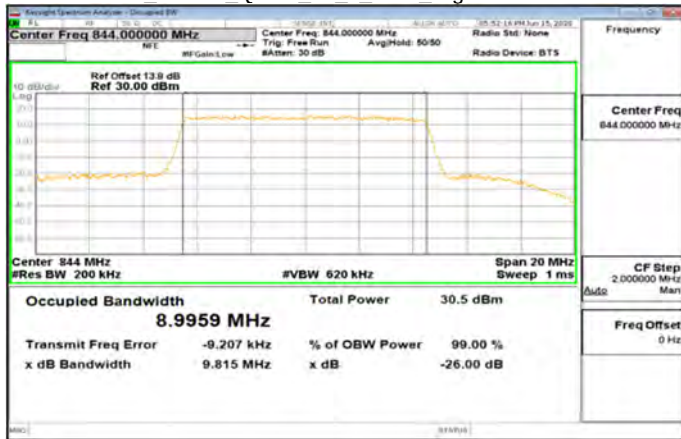
Band5 10MHz\_QPSK 50 0 Main\_MidCH20525-836.5



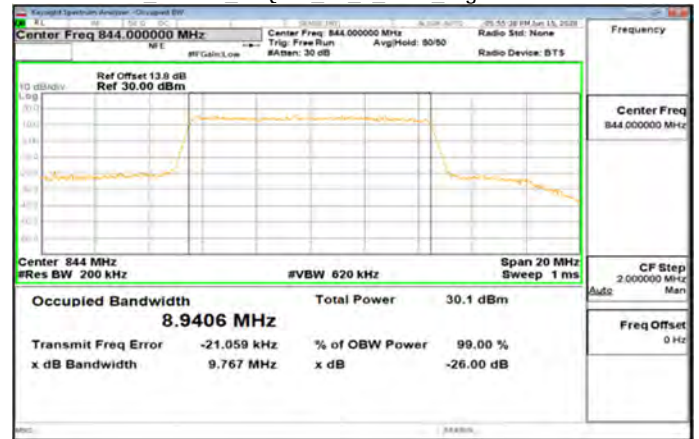
Band5 10MHz\_16QAM 50 0 Main\_MidCH20525-836.5



Band5 10MHz\_QPSK 50 0 Main\_HighCH20600-844



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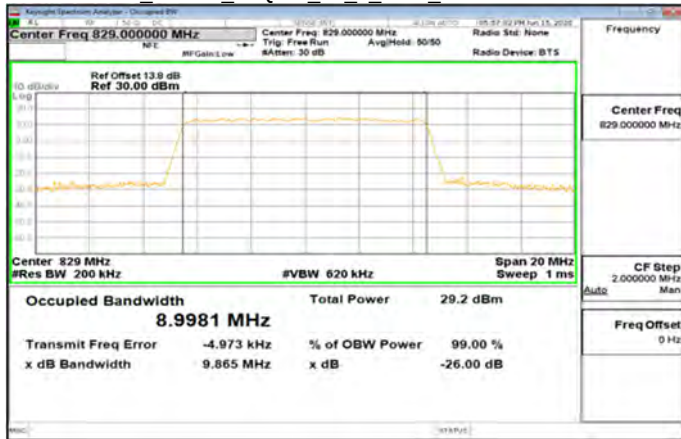


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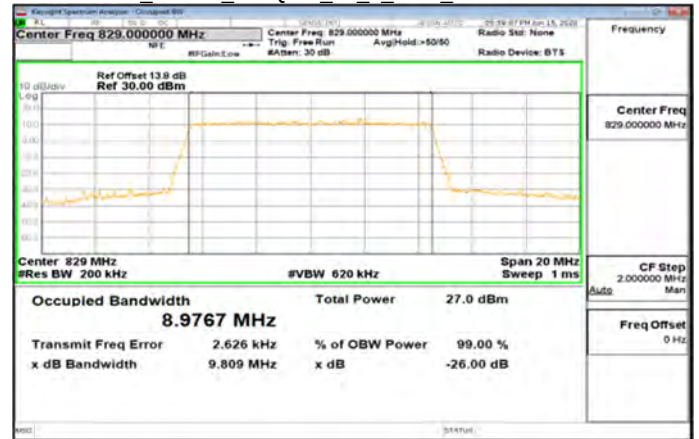
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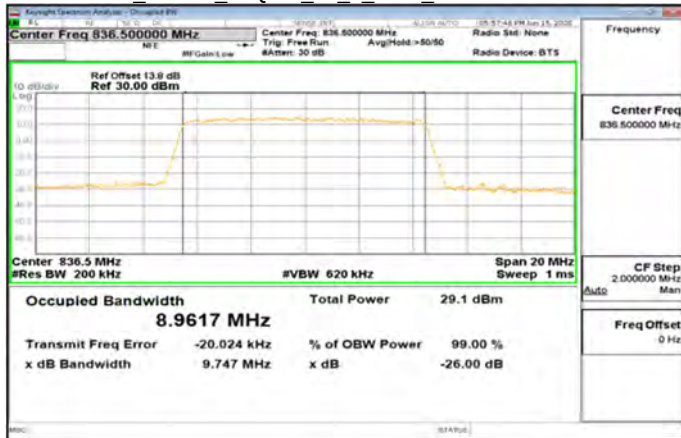
Band5 10MHz 64QAM 50 0 Main LowCH20450-829



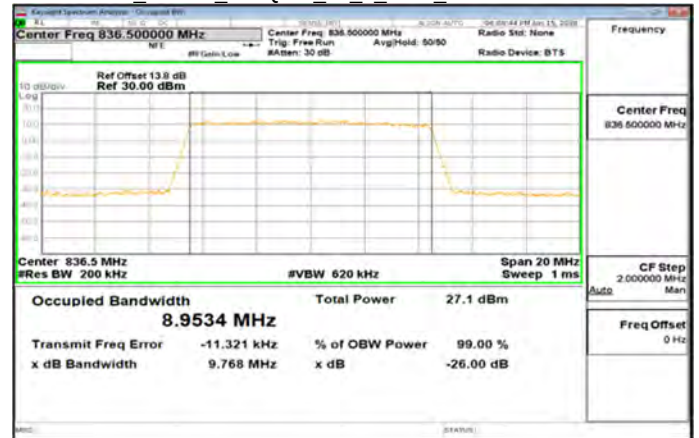
Band5 10MHz 256QAM 50 0 Main LowCH20450-829



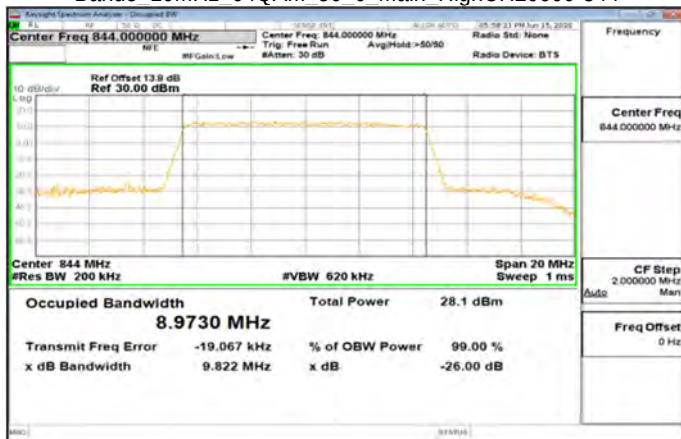
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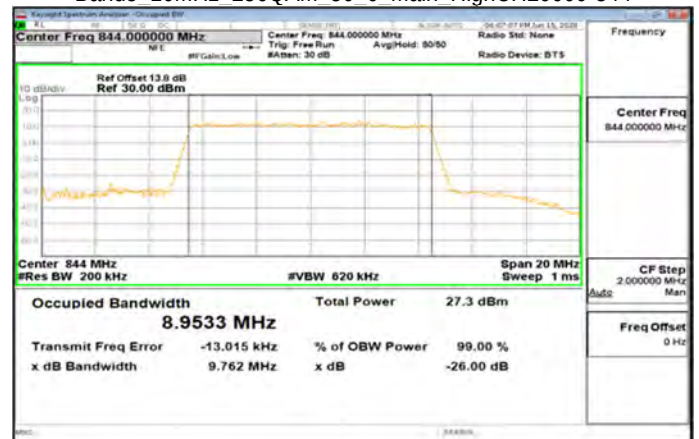
Band5 10MHz 256QAM 50 0 Main MidCH20525-836.5



Band5 10MHz 64QAM 50 0 Main HighCH20600-844



Band5 10MHz 256QAM 50 0 Main HighCH20600-844

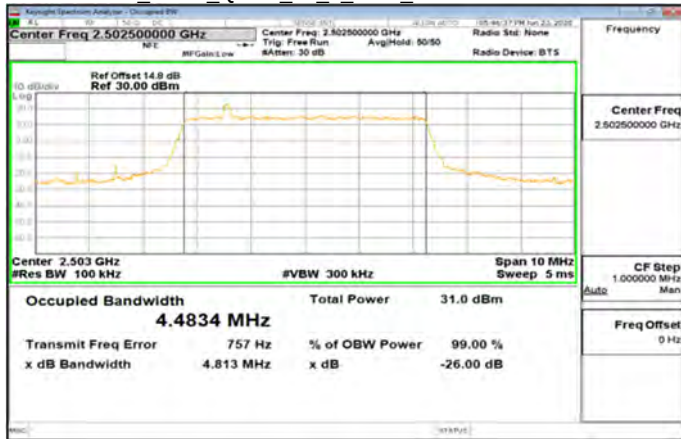


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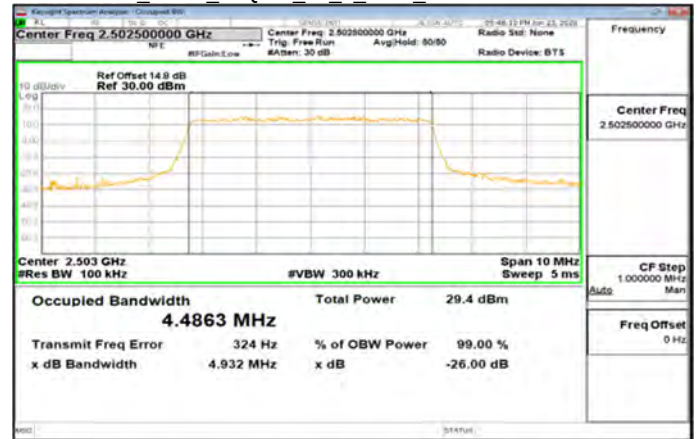
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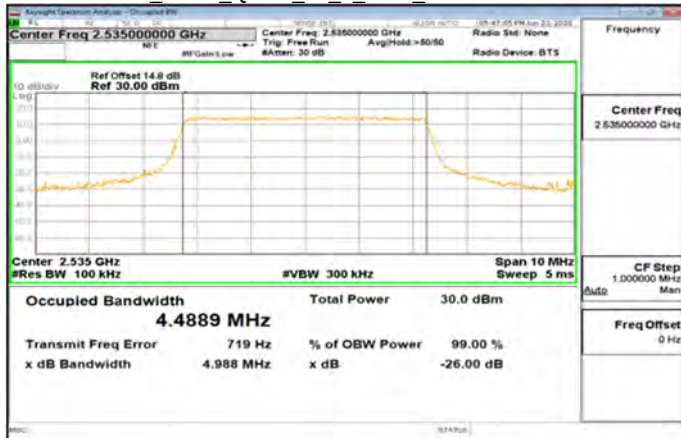
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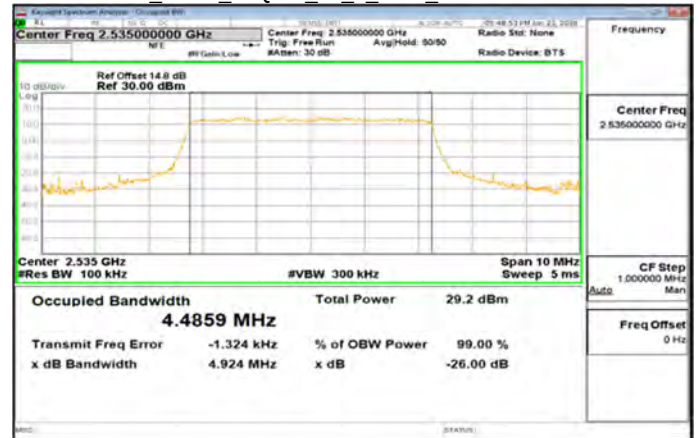
Band7 5MHz 16QAM 25 0 Main LowCH20775-2502.5



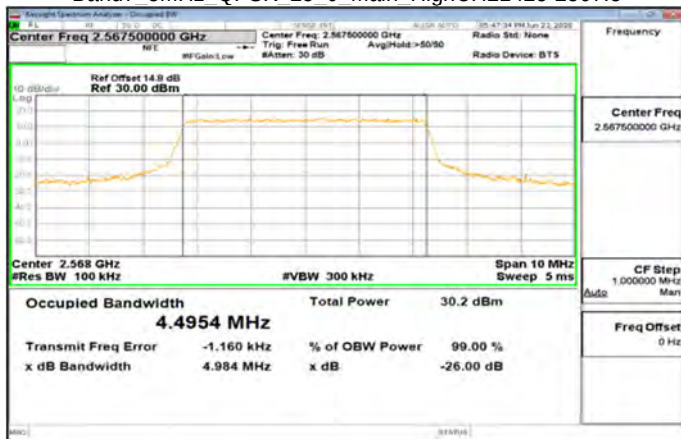
Band7 5MHz QPSK 25 0 Main MidCH21100-2535



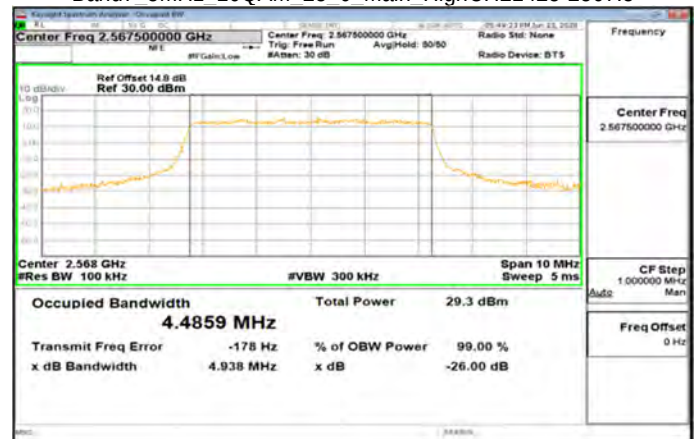
Band7 5MHz 16QAM 25 0 Main MidCH21100-2535



Band7 5MHz QPSK 25 0 Main HighCH21425-2567.5



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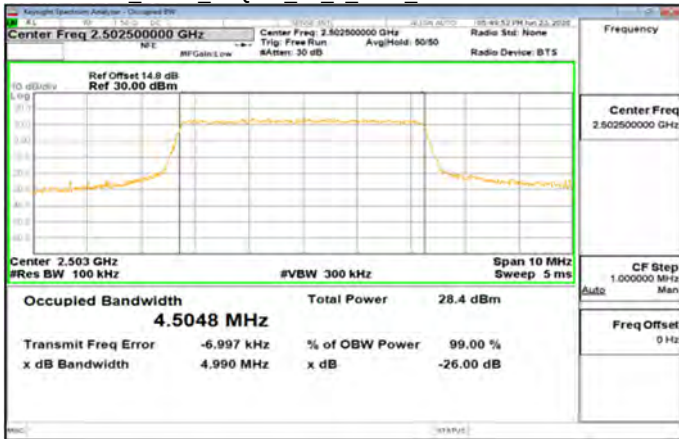


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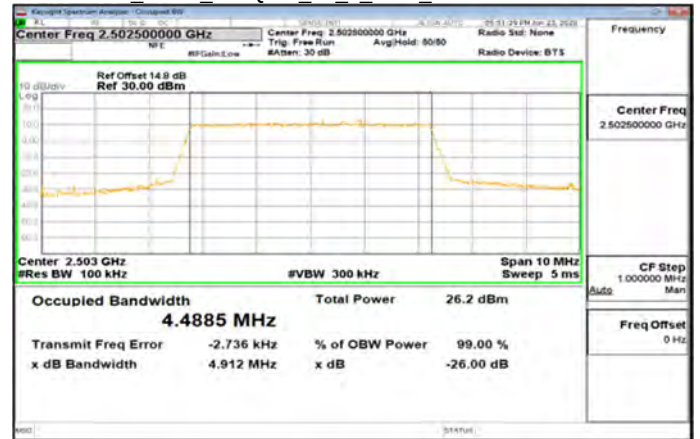
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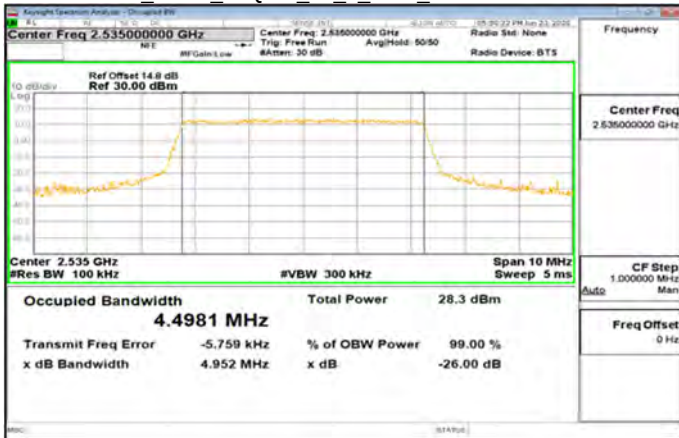
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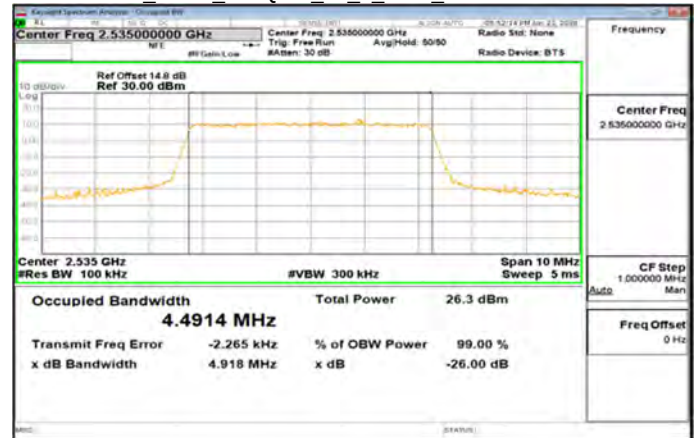
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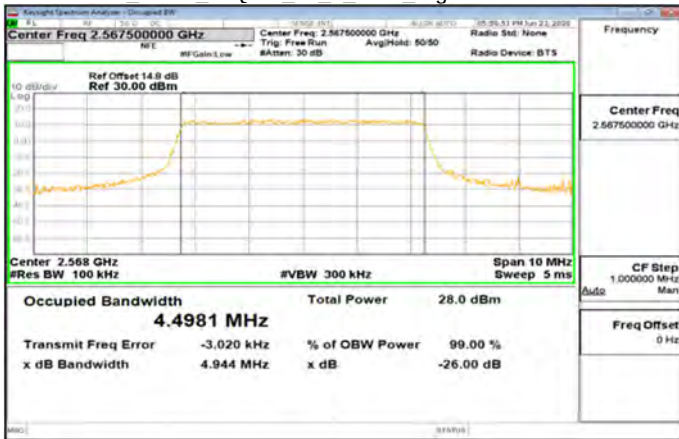
Band7 5MHz 64QAM 25 0 Main MidCH21100-2535



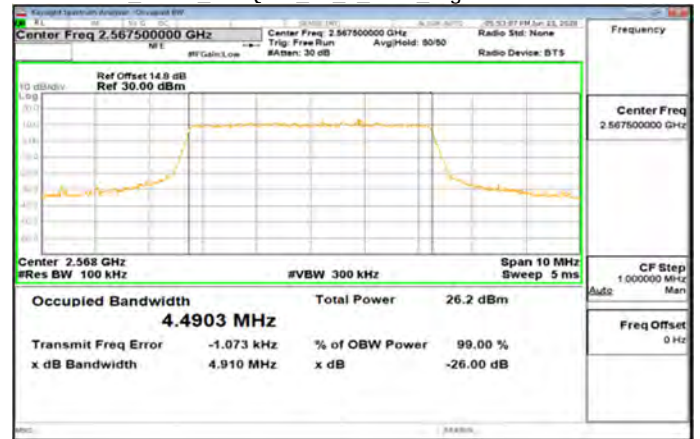
Band7 5MHz 256QAM 25 0 Main MidCH21100-2535



Band7 5MHz 64QAM 25 0 Main HighCH21425-2567.5



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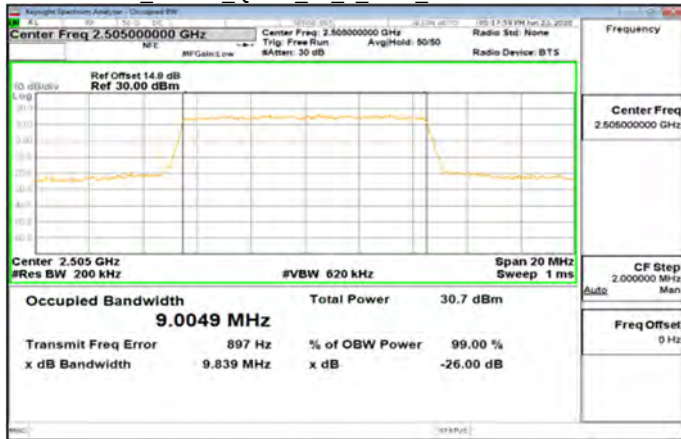


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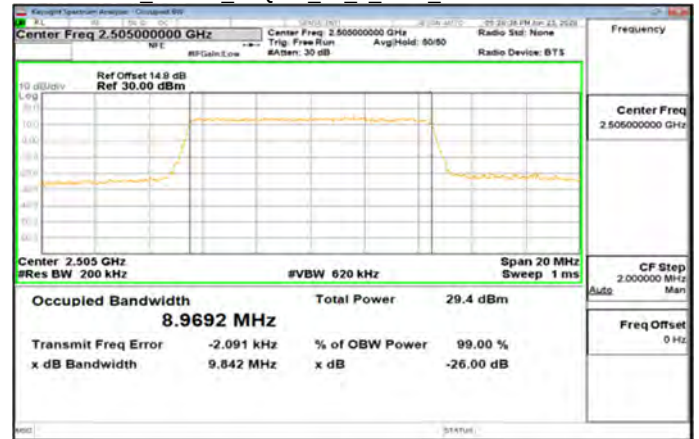
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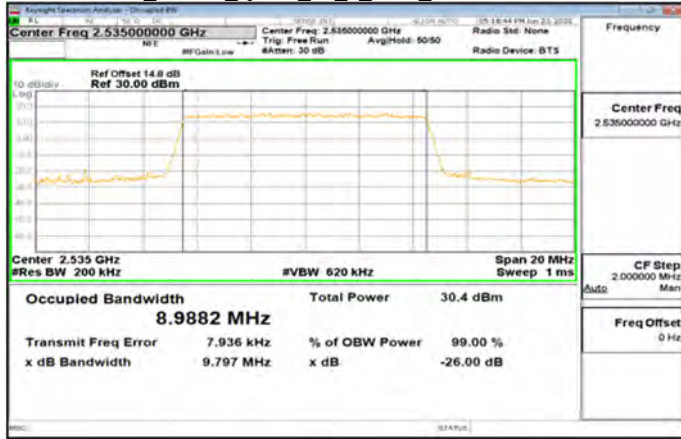
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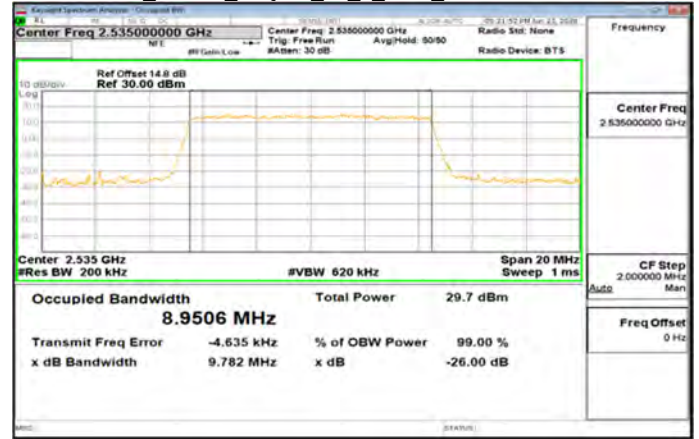
Band7 10MHz 16QAM 50 0 Main LowCH20800-2505



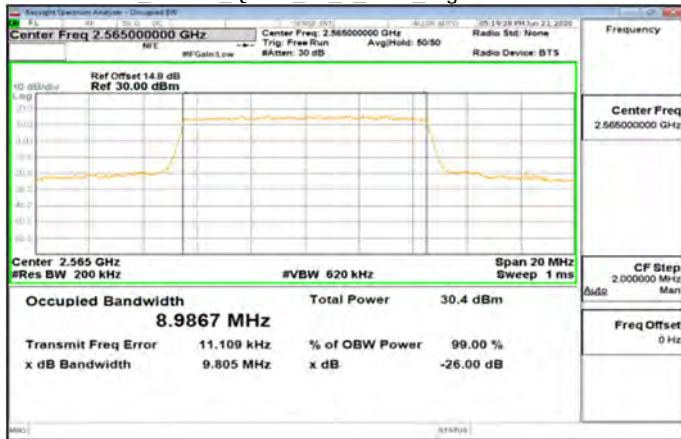
Band7 10MHz QPSK 50 0 Main MidCH21100-2535



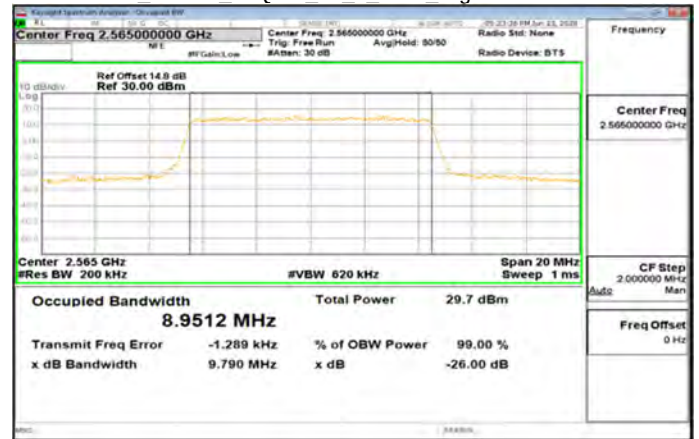
Band7 10MHz 16QAM 50 0 Main MidCH21100-2535



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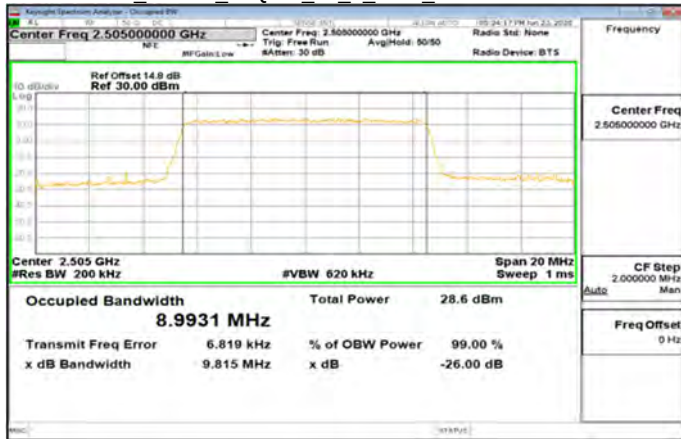


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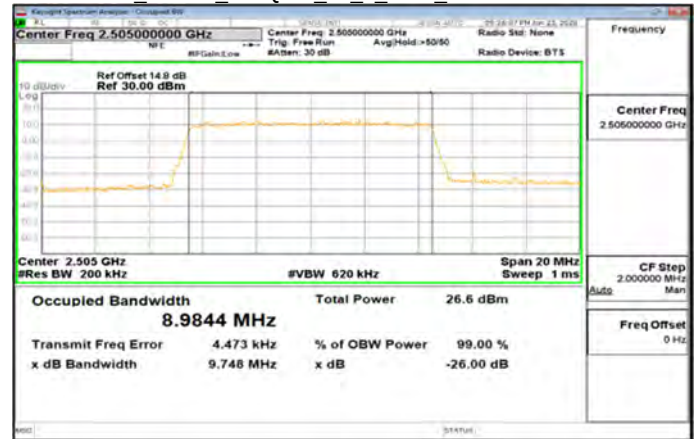
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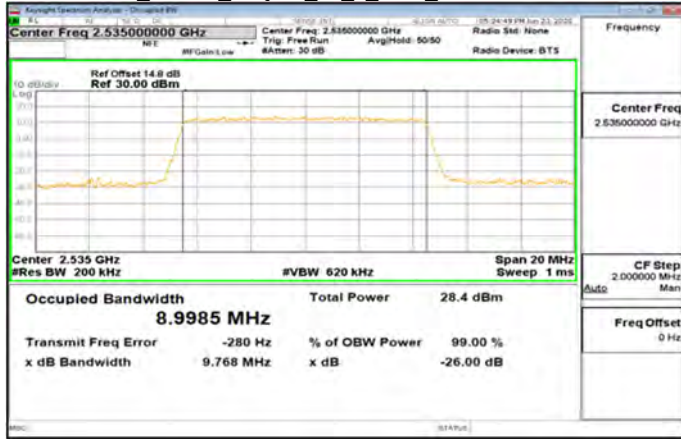
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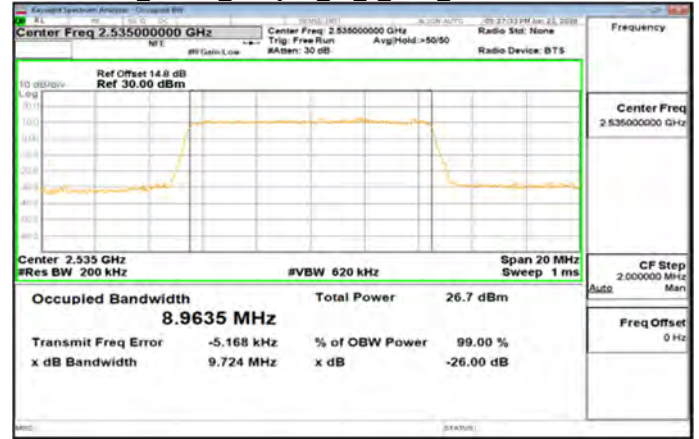
Band7 10MHz 256QAM 50 0 Main LowCH20800-2505



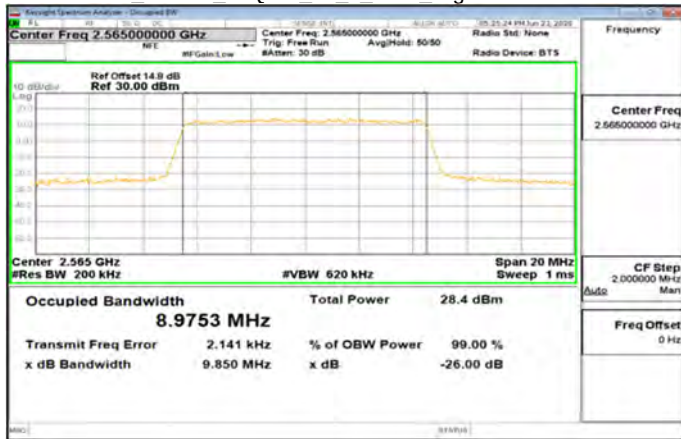
Band7 10MHz 64QAM 50 0 Main MidCH21100-2535



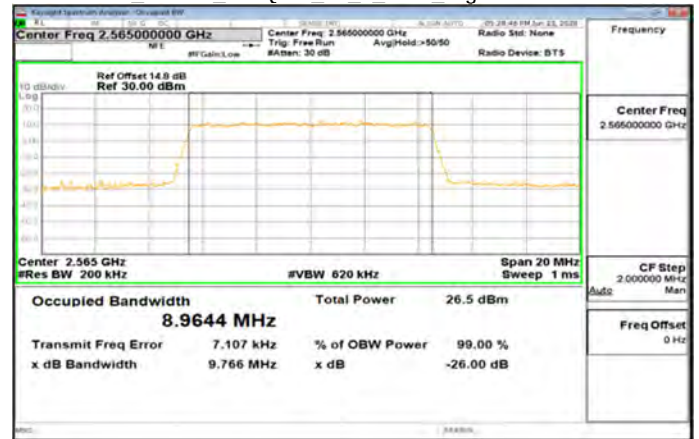
Band7 10MHz 256QAM 50 0 Main MidCH21100-2535



Band7 10MHz 64QAM 50 0 Main HighCH21400-2565



Band7 10MHz 256QAM 50 0 Main HighCH21400-2565

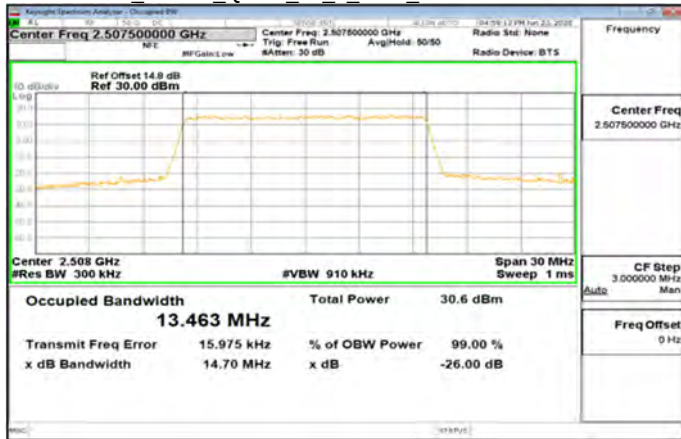


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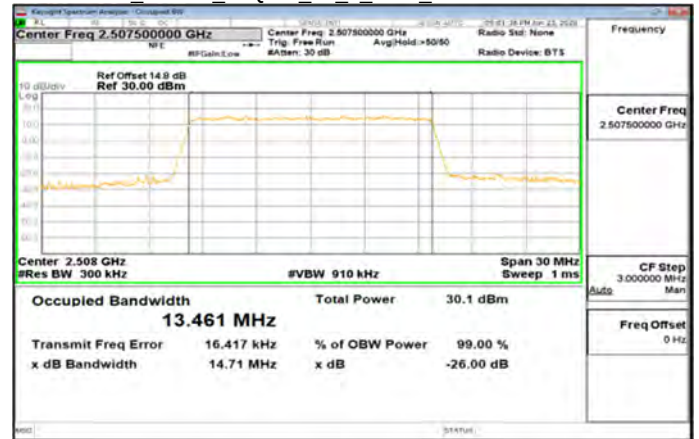
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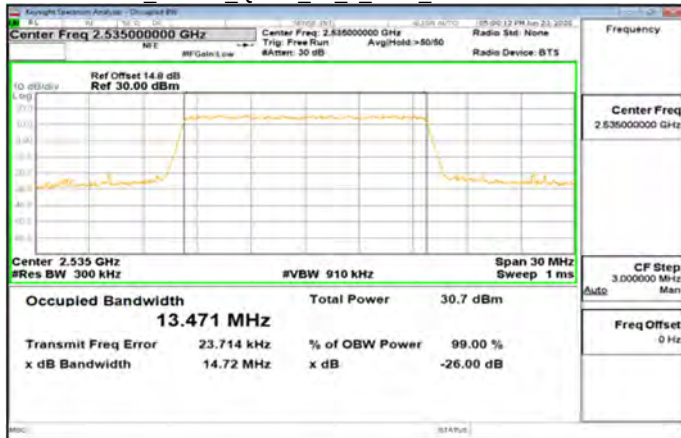
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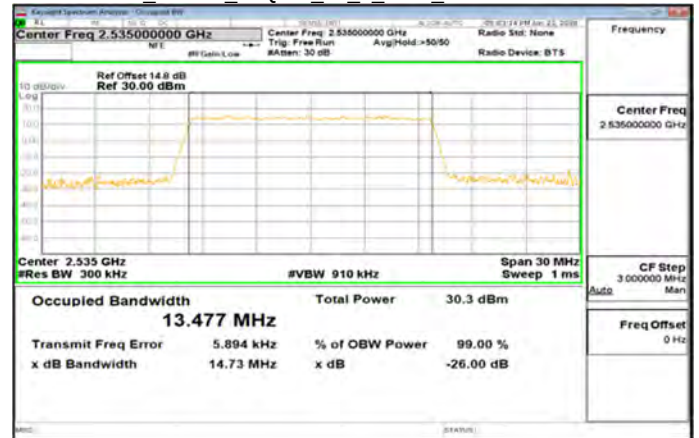
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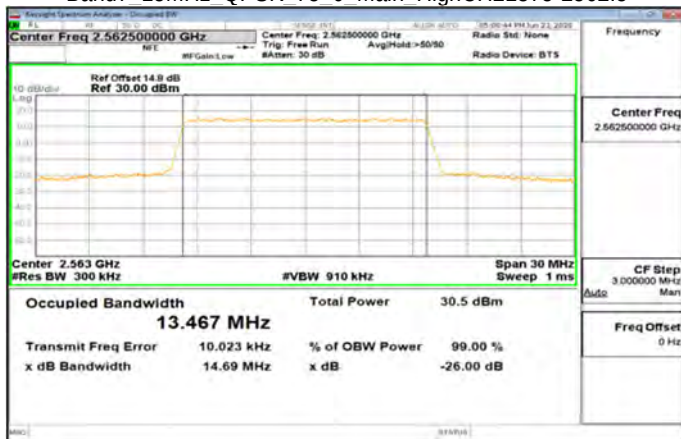
Band7 15MHz\_QPSK\_75\_0 Main\_MidCH21100-2535



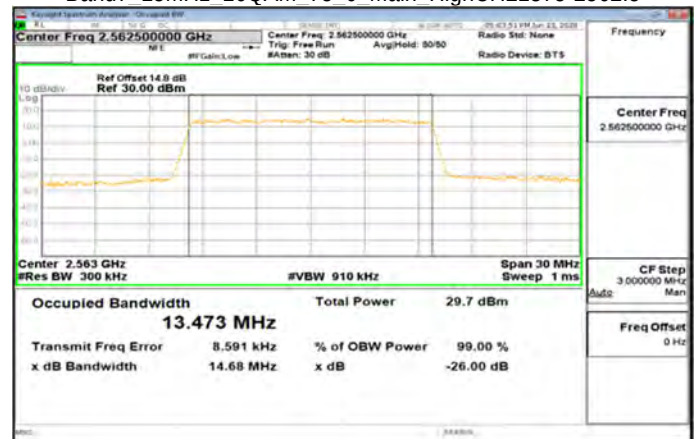
Band7 15MHz\_16QAM\_75\_0 Main\_MidCH21100-2535



Band7 15MHz\_QPSK\_75\_0 Main\_HighCH21375-2562.5



Band7 15MHz\_16QAM\_75\_0 Main\_HighCH21375-2562.5



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