

# TEST REPORT

FCC Test for RF4439d-25A  
Certification

**APPLICANT**  
SAMSUNG Electronics Co., Ltd.

**REPORT NO.**  
HCT-RF-2108-FC031

**DATE OF ISSUE**  
August 24, 2021

**Tested by**  
Kyung Soo Kang



**Technical Manager**  
Jong Seok Lee



**HCT CO., LTD.**  
*BongJai Huh*  
BongJai Huh / CEO

**HCT Co., Ltd.**

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA  
Tel. +82 31 634 6300 Fax. +82 31 645 6401

# TEST REPORT

FCC Test for  
RF4439d-25A

**REPORT NO.**

HCT-RF-2108-FC031

**DATE OF ISSUE**

August 24, 2021

**Additional Model**

-

**Applicant****SAMSUNG Electronics Co., Ltd.**

129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

**EUT Type**

RRU(RF4439d)

**Model Name**

RF4439d-25A

**FCC ID**

A3LRF4439D-25A

**Date of Test**

July 26, 2021 ~ August 24, 2021

**FCC Rule Parts:**

CFR 47 Part 2, Part 24, Part 27

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test results were applied only to the test methods required by the standard.

## REVISION HISTORY

The revision history for this test report is shown in table.

| Revision No. | Date of Issue   | Description     |
|--------------|-----------------|-----------------|
| 0            | August 24, 2021 | Initial Release |

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

If this report is required to confirmation of authenticity, please contact to [www.hct.co.kr](http://www.hct.co.kr)

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## 1. GENERAL INFORMATION

### 1.1. APPLICANT INFORMATION

|                 |                                                                               |
|-----------------|-------------------------------------------------------------------------------|
| Company Name    | Samsung Electronics Co., Ltd.                                                 |
| Company Address | 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,<br>Rep. of Korea |

### 1.2. PRODUCT INFORMATION

|                   |                                   |         |                        |                         |
|-------------------|-----------------------------------|---------|------------------------|-------------------------|
| EUT Type          | RRU(RF4439d)                      |         |                        |                         |
| EUT Serial Number | S617703329                        |         |                        |                         |
| Power Supply      | -48 VDC                           |         |                        |                         |
| Output Power      | Band                              | Carrier | Bandwidth              | Power                   |
|                   | (2 Port) B2 LTE                   | 1       | 5 MHz                  | 40 W/path, Total: 80 W  |
|                   | (2 Port) B2 LTE                   | 1       | 10 MHz                 | 60 W/path, Total: 120 W |
|                   | (2 Port) B2 LTE                   | 1       | 15 MHz                 | 60 W/path, Total: 120 W |
|                   | (2 Port) B2 LTE                   | 1       | 20 MHz                 | 60 W/path, Total: 120 W |
|                   | (4 Port) B2 LTE                   | 1       | 5 MHz                  | 20 W/path, Total: 80 W  |
|                   | (4 Port) B2 LTE                   | 1       | 10 MHz                 | 40 W/path, Total: 160 W |
|                   | (4 Port) B2 LTE                   | 1       | 15 MHz                 | 40 W/path, Total: 160 W |
|                   | (4 Port) B2 LTE                   | 1       | 20 MHz                 | 40 W/path, Total: 160 W |
|                   | (2 Port) B66 LTE                  | 1       | 5 MHz                  | 40 W/path, Total: 80 W  |
|                   | (2 Port) B66 LTE                  | 1       | 10 MHz                 | 80 W/path, Total: 160 W |
|                   | (2 Port) B66 LTE                  | 1       | 15 MHz                 | 80 W/path, Total: 160 W |
|                   | (2 Port) B66 LTE                  | 1       | 20 MHz                 | 80 W/path, Total: 160 W |
|                   | (4 Port) B66 LTE                  | 1       | 5 MHz                  | 20 W/path, Total: 80 W  |
|                   | (4 Port) B66 LTE                  | 1       | 10 MHz                 | 40 W/path, Total: 160 W |
|                   | (4 Port) B66 LTE                  | 1       | 15 MHz                 | 60 W/path, Total: 240 W |
|                   | (4 Port) B66 LTE                  | 1       | 20 MHz                 | 60 W/path, Total: 240 W |
|                   | (2 Port) B2 LTE + B2 LTE          | 2       | 5 MHz + 5 MHz          | 60 W/path, Total: 120 W |
|                   | (2 Port) B2 LTE + B2 LTE          | 2       | 5 MHz + 20 MHz         | 60 W/path, Total: 120 W |
|                   | (2 Port) B2 LTE + B2 LTE          | 2       | 10 MHz + 20 MHz        | 60 W/path, Total: 120 W |
|                   | (4 Port) B2 LTE + B2 LTE          | 2       | 5 MHz + 5 MHz          | 40 W/path, Total: 160 W |
|                   | (4 Port) B2 LTE + B2 LTE          | 2       | 5 MHz + 20 MHz         | 40 W/path, Total: 160 W |
|                   | (4 Port) B2 LTE + B2 LTE          | 2       | 10 MHz + 20 MHz        | 40 W/path, Total: 160 W |
|                   | (2 Port) B66 LTE + B66 LTE        | 2       | 5 MHz + 5 MHz          | 80 W/path, Total: 160 W |
|                   | (2 Port) B66 LTE + B66 LTE        | 2       | 5 MHz + 20 MHz         | 80 W/path, Total: 160 W |
|                   | (2 Port) B66 LTE + B66 LTE        | 2       | 20 MHz + 20 MHz        | 80 W/path, Total: 160 W |
|                   | (4 Port) B66 LTE + B66 LTE        | 2       | 5 MHz + 10 MHz         | 60 W/path, Total: 240 W |
|                   | (4 Port) B66 LTE + B66 LTE        | 2       | 5 MHz + 20 MHz         | 60 W/path, Total: 240 W |
|                   | (4 Port) B66 LTE + B66 LTE        | 2       | 20 MHz + 20 MHz        | 60 W/path, Total: 240 W |
|                   | (2 Port) B2 LTE + B2 LTE + B2 LTE | 3       | 5 MHz + 5 MHz + 5 MHz  | 60 W/path, Total: 120 W |
|                   | (2 Port) B2 LTE + B2 LTE + B2 LTE | 3       | 5 MHz + 5 MHz + 20 MHz | 60 W/path, Total: 120 W |
|                   | (4 Port) B2 LTE + B2 LTE + B2     | 3       | 5 MHz + 5 MHz + 5 MHz  | 40 W/path, Total: 160 W |

|                     |                                                |                                                                                                         |                                 |                         |                     |               |
|---------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|---------------------|---------------|
|                     | LTE                                            |                                                                                                         |                                 |                         |                     |               |
|                     | (4 Port) B2 LTE + B2 LTE + B2 LTE              | 3                                                                                                       | 5 MHz + 5 MHz + 20 MHz          | 40 W/path, Total: 160 W |                     |               |
|                     | (2 Port) B66 LTE + B66 LTE + B66 LTE           | 3                                                                                                       | 5 MHz + 5 MHz + 5 MHz           | 80 W/path, Total: 160 W |                     |               |
|                     | (2 Port) B66 LTE + B66 LTE + B66 LTE           | 3                                                                                                       | 5 MHz + 5 MHz + 20 MHz          | 80 W/path, Total: 160 W |                     |               |
|                     | (2 Port) B66 LTE + B66 LTE + B66 LTE           | 3                                                                                                       | 5 MHz + 15 MHz + 20 MHz         | 80 W/path, Total: 160 W |                     |               |
|                     | (4 Port) B66 LTE + B66 LTE + B66 LTE           | 3                                                                                                       | 5 MHz + 5 MHz + 5 MHz           | 60 W/path, Total: 240 W |                     |               |
|                     | (4 Port) B66 LTE + B66 LTE + B66 LTE           | 3                                                                                                       | 5 MHz + 5 MHz + 20 MHz          | 60 W/path, Total: 240 W |                     |               |
|                     | (4 Port) B66 LTE + B66 LTE + B66 LTE           | 3                                                                                                       | 5 MHz + 15 MHz + 20 MHz         | 60 W/path, Total: 240 W |                     |               |
|                     | (2 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE | 4                                                                                                       | 5 MHz + 5 MHz + 5 MHz + 5 MHz   | 80 W/path, Total: 160 W |                     |               |
|                     | (2 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE | 4                                                                                                       | 5 MHz + 5 MHz + 5 MHz + 20 MHz  | 80 W/path, Total: 160 W |                     |               |
|                     | (2 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE | 4                                                                                                       | 5 MHz + 5 MHz + 10 MHz + 20 MHz | 80 W/path, Total: 160 W |                     |               |
|                     | (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE | 4                                                                                                       | 5 MHz + 5 MHz + 5 MHz + 5 MHz   | 60 W/path, Total: 240 W |                     |               |
|                     | (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE | 4                                                                                                       | 5 MHz + 5 MHz + 5 MHz + 20 MHz  | 60 W/path, Total: 240 W |                     |               |
|                     | (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE | 4                                                                                                       | 5 MHz + 5 MHz + 10 MHz + 20 MHz | 60 W/path, Total: 240 W |                     |               |
|                     | Frequency Range                                | Band 2 : 1 930 MHz ~ 1 990 MHz (@ Ant 1, 2, 3, 4)<br>Band 66 : 2 110 MHz ~ 2 180 MHz (@ Ant 5, 6, 7, 8) |                                 |                         |                     |               |
| Emission Designator | Mode                                           | Bandwidth                                                                                               | Emission Designator             |                         |                     |               |
|                     |                                                |                                                                                                         | QPSK (G7D)                      | Conducted (W)           | 16/64/256 QAM (W7D) | Conducted (W) |
|                     | (2 Port) B2 LTE                                | 5 MHz                                                                                                   | 4M50G7D                         | 74.15                   | 4M51W7D             | 74.34         |
|                     | (2 Port) B2 LTE                                | 10 MHz                                                                                                  | 9M02G7D                         | 108.12                  | 9M03W7D             | 109.27        |
|                     | (2 Port) B2 LTE                                | 15 MHz                                                                                                  | 13M5G7D                         | 109.17                  | 13M5W7D             | 109.30        |
|                     | (2 Port) B2 LTE                                | 20 MHz                                                                                                  | 18M0G7D                         | 107.92                  | 18M0W7D             | 108.68        |
|                     | (4 Port) B2 LTE                                | 5 MHz                                                                                                   | 4M51G7D                         | 76.05                   | 4M51W7D             | 75.70         |
|                     | (4 Port) B2 LTE                                | 10 MHz                                                                                                  | 9M03G7D                         | 145.91                  | 9M03W7D             | 146.98        |
|                     | (4 Port) B2 LTE                                | 15 MHz                                                                                                  | 13M5G7D                         | 154.34                  | 13M5W7D             | 154.76        |
|                     | (4 Port) B2 LTE                                | 20 MHz                                                                                                  | 18M0G7D                         | 155.78                  | 18M0W7D             | 156.06        |
|                     | (2 Port) B66 LTE                               | 5 MHz                                                                                                   | 4M51G7D                         | 72.93                   | 4M51W7D             | 72.55         |
|                     | (2 Port) B66 LTE                               | 10 MHz                                                                                                  | 9M01G7D                         | 144.36                  | 9M03W7D             | 145.58        |
|                     | (2 Port) B66 LTE                               | 15 MHz                                                                                                  | 13M5G7D                         | 145.15                  | 13M6W7D             | 145.96        |
|                     | (2 Port) B66 LTE                               | 20 MHz                                                                                                  | 17M9G7D                         | 145.52                  | 18M0W7D             | 146.54        |
|                     | (4 Port) B66 LTE                               | 5 MHz                                                                                                   | 4M51G7D                         | 82.66                   | 4M52W7D             | 84.07         |
|                     | (4 Port) B66 LTE                               | 10 MHz                                                                                                  | 9M02G7D                         | 172.44                  | 9M04W7D             | 171.43        |
|                     | (4 Port) B66 LTE                               | 15 MHz                                                                                                  | 13M5G7D                         | 258.61                  | 13M6W7D             | 258.55        |
|                     | (4 Port) B66 LTE                               | 20 MHz                                                                                                  | 18M0G7D                         | 225.67                  | 18M0W7D             | 228.18        |
|                     | (2 Port) B2 LTE + B2 LTE (Contiguous)          | 5 MHz + 5 MHz                                                                                           | 9M48G7D                         | 111.51                  | 9M50W7D             | 113.32        |
|                     | (2 Port) B2 LTE + B2 LTE                       | 5 MHz + 20 MHz                                                                                          | 23M7G7D                         | 111.52                  | 23M7W7D             | 111.13        |

|                                                         |                                  |         |        |         |        |
|---------------------------------------------------------|----------------------------------|---------|--------|---------|--------|
| (Contiguous)                                            |                                  |         |        |         |        |
| (2 Port) B2 LTE + B2 LTE<br>(Contiguous)                | 10 MHz +20 MHz                   | 28M4G7D | 110.66 | 28M5W7D | 111.21 |
| (4 Port) B2 LTE + B2 LTE<br>(Contiguous)                | 5 MHz + 5 MHz                    | 9M50G7D | 153.38 | 9M51W7D | 154.10 |
| (4 Port) B2 LTE + B2 LTE<br>(Contiguous)                | 5 MHz +20 MHz                    | 23M7G7D | 152.34 | 23M7W7D | 152.94 |
| (4 Port) B2 LTE + B2 LTE<br>(Contiguous)                | 10 MHz +20 MHz                   | 28M4G7D | 152.80 | 28M5W7D | 153.81 |
| (2 Port) B66 LTE + B66 LTE<br>(Contiguous)              | 5 MHz + 5 MHz                    | 9M48G7D | 178.71 | 9M49W7D | 179.81 |
| (2 Port) B66 LTE + B66 LTE<br>(Contiguous)              | 5 MHz +20 MHz                    | 23M7G7D | 173.77 | 23M7W7D | 173.70 |
| (2 Port) B66 LTE + B66 LTE<br>(Contiguous)              | 20 MHz +20 MHz                   | 37M9G7D | 144.36 | 38M0W7D | 146.45 |
| (4 Port) B66 LTE + B66 LTE<br>(Contiguous)              | 5 MHz + 10 MHz                   | 14M2G7D | 214.01 | 14M2W7D | 219.65 |
| (4 Port) B66 LTE + B66 LTE<br>(Contiguous)              | 5 MHz +20 MHz                    | 23M7G7D | 219.99 | 23M8W7D | 223.14 |
| (4 Port) B66 LTE + B66 LTE<br>(Contiguous)              | 20 MHz +20 MHz                   | 37M9G7D | 216.28 | 37M9W7D | 219.59 |
| (2 Port) B2 LTE + B2 LTE + B2<br>LTE<br>(Contiguous)    | 5 MHz + 5 MHz +<br>5 MHz         | 14M5G7D | 110.14 | 14M5W7D | 111.49 |
| (2 Port) B2 LTE + B2 LTE + B2<br>LTE<br>(Contiguous)    | 5 MHz + 5 MHz +<br>20 MHz        | 28M7G7D | 110.23 | 28M7W7D | 111.26 |
| (4 Port) B2 LTE + B2 LTE + B2<br>LTE<br>(Contiguous)    | 5 MHz + 5 MHz +<br>5 MHz         | 14M5G7D | 150.79 | 14M5W7D | 151.83 |
| (4 Port) B2 LTE + B2 LTE + B2<br>LTE<br>(Contiguous)    | 5 MHz + 5 MHz +<br>20 MHz        | 28M7G7D | 157.02 | 28M7W7D | 156.90 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE<br>(Contiguous) | 5 MHz + 5 MHz +<br>5 MHz         | 14M5G7D | 177.42 | 14M5W7D | 177.76 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE<br>(Contiguous) | 5 MHz + 5 MHz +<br>20 MHz        | 28M6G7D | 143.67 | 28M7W7D | 145.74 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE<br>(Contiguous) | 5 MHz + 15 MHz<br>+ 20 MHz       | 38M6G7D | 143.08 | 38M7W7D | 144.37 |
| (4 Port) B66 LTE + B66 LTE +<br>B66 LTE<br>(Contiguous) | 5 MHz + 5 MHz +<br>5 MHz         | 14M5G7D | 222.61 | 14M5W7D | 224.22 |
| (4 Port) B66 LTE + B66 LTE +<br>B66 LTE<br>(Contiguous) | 5 MHz + 5 MHz +<br>20 MHz        | 28M7G7D | 224.95 | 28M7W7D | 227.82 |
| (4 Port) B66 LTE + B66 LTE +<br>B66 LTE<br>(Contiguous) | 5 MHz + 15 MHz<br>+ 20 MHz       | 38M7G7D | 221.28 | 38M7W7D | 222.39 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE + B66 LTE       | 5 MHz + 5 MHz +<br>5 MHz + 5 MHz | 19M5G7D | 179.88 | 19M5W7D | 181.56 |

|                                                              |                                 |         |        |         |        |  |
|--------------------------------------------------------------|---------------------------------|---------|--------|---------|--------|--|
|                                                              | (Contiguous)                    |         |        |         |        |  |
| (2 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (Contiguous)  | 5 MHz + 5 MHz + 5 MHz + 20 MHz  | 33M6G7D | 144.35 | 33M6W7D | 145.32 |  |
| (2 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (Contiguous)  | 5 MHz + 5 MHz + 10 MHz + 20 MHz | 38M6G7D | 147.19 | 38M7W7D | 148.14 |  |
| (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (Contiguous)  | 5 MHz + 5 MHz + 5 MHz + 5 MHz   | 19M5G7D | 224.06 | 19M5W7D | 224.07 |  |
| (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (Contiguous)  | 5 MHz + 5 MHz + 5 MHz + 20 MHz  | 33M7G7D | 222.75 | 33M7W7D | 223.48 |  |
| (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (Contiguous)  | 5 MHz + 5 MHz + 10 MHz + 20 MHz | 38M6G7D | 221.94 | 38M6W7D | 220.18 |  |
| (2 Port) B2 LTE + B2 LTE (Non-Contiguous)                    | 5 MHz + 5 MHz                   | 9M00G7D | 107.75 | 9M03W7D | 107.48 |  |
| (2 Port) B2 LTE + B2 LTE (Non-Contiguous)                    | 5 MHz + 20 MHz                  | 22M5G7D | 100.72 | 22M5W7D | 101.66 |  |
| (2 Port) B2 LTE + B2 LTE (Non-Contiguous)                    | 10 MHz + 20 MHz                 | 27M0G7D | 105.37 | 27M0W7D | 106.11 |  |
| (4 Port) B2 LTE + B2 LTE (Non-Contiguous)                    | 5 MHz + 5 MHz                   | 9M01G7D | 152.33 | 9M03W7D | 152.95 |  |
| (4 Port) B2 LTE + B2 LTE (Non-Contiguous)                    | 5 MHz + 20 MHz                  | 22M5G7D | 140.61 | 22M5W7D | 140.90 |  |
| (4 Port) B2 LTE + B2 LTE (Non-Contiguous)                    | 10 MHz + 20 MHz                 | 27M0G7D | 145.11 | 27M0W7D | 145.00 |  |
| (2 Port) B66 LTE + B66 LTE (Non-Contiguous)                  | 5 MHz + 5 MHz                   | 9M00G7D | 172.20 | 9M01W7D | 174.69 |  |
| (2 Port) B66 LTE + B66 LTE (Non-Contiguous)                  | 5 MHz + 20 MHz                  | 22M4G7D | 166.86 | 22M5W7D | 174.73 |  |
| (2 Port) B66 LTE + B66 LTE (Non-Contiguous)                  | 20 MHz + 20 MHz                 | 35M9G7D | 146.49 | 36M0W7D | 147.46 |  |
| (4 Port) B66 LTE + B66 LTE (Non-Contiguous)                  | 5 MHz + 10 MHz                  | 13M5G7D | 221.82 | 13M5W7D | 225.09 |  |
| (4 Port) B66 LTE + B66 LTE (Non-Contiguous)                  | 5 MHz + 20 MHz                  | 22M5G7D | 228.82 | 22M5W7D | 228.35 |  |
| (4 Port) B66 LTE + B66 LTE (Non-Contiguous)                  | 20 MHz + 20 MHz                 | 35M9G7D | 222.46 | 36M0W7D | 221.64 |  |
| (2 Port) B2 LTE + B2 LTE + B2 LTE (1C + 2C) (Non-Contiguous) | 5 MHz + 5 MHz + 5 MHz           | 14M0G7D | 106.44 | 14M0W7D | 107.83 |  |
| (2 Port) B2 LTE + B2 LTE + B2 LTE (2C + 1C) (Non-Contiguous) | 5 MHz + 5 MHz + 5 MHz           | 14M0G7D | 109.05 | 14M0W7D | 108.99 |  |
| (2 Port) B2 LTE + B2 LTE + B2 LTE (1C + 2C) (Non-Contiguous) | 5 MHz + 5 MHz + 20 MHz          | 28M2G7D | 102.49 | 28M2W7D | 103.08 |  |
| (2 Port) B2 LTE + B2 LTE + B2 LTE (2C + 1C) (Non-Contiguous) | 5 MHz + 5 MHz + 20 MHz          | 28M2G7D | 107.71 | 28M2W7D | 108.44 |  |
| (4 Port) B2 LTE + B2 LTE + B2                                | 5 MHz + 5 MHz +                 | 14M0G7D | 149.04 | 14M0W7D | 150.03 |  |



|                                                                                 |                                  |         |        |         |        |
|---------------------------------------------------------------------------------|----------------------------------|---------|--------|---------|--------|
| LTE (1C + 2C)<br>(Non-Contiguous)                                               | 5 MHz                            |         |        |         |        |
| (4 Port) B2 LTE + B2 LTE + B2<br>LTE (2C + 1C)<br>(Non-Contiguous)              | 5 MHz + 5 MHz +<br>5 MHz         | 14M0G7D | 148.27 | 14M0W7D | 149.01 |
| (4 Port) B2 LTE + B2 LTE + B2<br>LTE (1C + 2C)<br>(Non-Contiguous)              | 5 MHz + 5 MHz +<br>20 MHz        | 28M2G7D | 141.72 | 28M2W7D | 141.73 |
| (4 Port) B2 LTE + B2 LTE + B2<br>LTE (2C + 1C)<br>(Non-Contiguous)              | 5 MHz + 5 MHz +<br>20 MHz        | 28M2G7D | 145.82 | 28M2W7D | 147.18 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE (1C + 2C)<br>(Non-Contiguous)           | 5 MHz + 5 MHz +<br>5 MHz         | 14M0G7D | 170.12 | 14M0W7D | 174.60 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE (2C + 1C)<br>(Non-Contiguous)           | 5 MHz + 5 MHz +<br>5 MHz         | 14M0G7D | 156.69 | 14M0W7D | 158.81 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE (1C + 2C)<br>(Non-Contiguous)           | 5 MHz + 5 MHz +<br>20 MHz        | 28M2G7D | 138.71 | 28M2W7D | 139.37 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE (2C + 1C)<br>(Non-Contiguous)           | 5 MHz + 5 MHz +<br>20 MHz        | 28M1G7D | 141.28 | 28M2W7D | 143.08 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE (1C + 2C)<br>(Non-Contiguous)           | 5 MHz + 15 MHz<br>+ 20 MHz       | 37M2G7D | 145.79 | 37M2W7D | 147.29 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE (2C + 1C)<br>(Non-Contiguous)           | 5 MHz + 15 MHz<br>+ 20 MHz       | 37M6G7D | 145.89 | 37M7W7D | 147.17 |
| (4 Port) B66 LTE + B66 LTE +<br>B66 LTE (1C + 2C)<br>(Non-Contiguous)           | 5 MHz + 5 MHz +<br>5 MHz         | 14M0G7D | 222.34 | 14M0W7D | 222.82 |
| (4 Port) B66 LTE + B66 LTE +<br>B66 LTE (2C + 1C)<br>(Non-Contiguous)           | 5 MHz + 5 MHz +<br>5 MHz         | 14M0G7D | 226.70 | 14M0W7D | 229.49 |
| (4 Port) B66 LTE + B66 LTE +<br>B66 LTE (1C + 2C)<br>(Non-Contiguous)           | 5 MHz + 5 MHz +<br>20 MHz        | 28M2G7D | 218.83 | 28M2W7D | 218.25 |
| (4 Port) B66 LTE + B66 LTE +<br>B66 LTE (2C + 1C)<br>(Non-Contiguous)           | 5 MHz + 5 MHz +<br>20 MHz        | 28M2G7D | 222.37 | 28M2W7D | 220.57 |
| (4 Port) B66 LTE + B66 LTE +<br>B66 LTE (1C + 2C)<br>(Non-Contiguous)           | 5 MHz + 15 MHz<br>+ 20 MHz       | 37M2G7D | 222.95 | 37M2W7D | 223.14 |
| (4 Port) B66 LTE + B66 LTE +<br>B66 LTE (2C + 1C)<br>(Non-Contiguous)           | 5 MHz + 15 MHz<br>+ 20 MHz       | 37M6G7D | 224.14 | 37M7W7D | 224.93 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE + B66 LTE (1C + 3C)<br>(Non-Contiguous) | 5 MHz + 5 MHz +<br>5 MHz + 5 MHz | 19M0G7D | 173.64 | 19M0W7D | 175.41 |
| (2 Port) B66 LTE + B66 LTE +<br>B66 LTE + B66 LTE (3C + 1C)<br>(Non-Contiguous) | 5 MHz + 5 MHz +<br>5 MHz + 5 MHz | 18M9G7D | 168.30 | 19M0W7D | 171.76 |

|                 |                                                                           |                                 |         |        |         |        |
|-----------------|---------------------------------------------------------------------------|---------------------------------|---------|--------|---------|--------|
|                 | (2 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (1C + 3C) (Non-Contiguous) | 5 MHz + 5 MHz + 5 MHz + 20 MHz  | 33M2G7D | 141.77 | 33M2W7D | 142.26 |
|                 | (2 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (3C + 1C) (Non-Contiguous) | 5 MHz + 5 MHz + 5 MHz + 20 MHz  | 33M1G7D | 141.47 | 33M2W7D | 142.02 |
|                 | (2 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (1C + 3C) (Non-Contiguous) | 5 MHz + 5 MHz + 10 MHz + 20 MHz | 38M1G7D | 143.28 | 38M1W7D | 143.96 |
|                 | (2 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (3C + 1C) (Non-Contiguous) | 5 MHz + 5 MHz + 10 MHz + 20 MHz | 38M1G7D | 144.50 | 38M1W7D | 146.06 |
|                 | (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (1C + 3C) (Non-Contiguous) | 5 MHz + 5 MHz + 5 MHz + 5 MHz   | 18M9G7D | 218.60 | 19M0W7D | 218.65 |
|                 | (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (3C + 1C) (Non-Contiguous) | 5 MHz + 5 MHz + 5 MHz + 5 MHz   | 18M9G7D | 222.77 | 19M0W7D | 221.84 |
|                 | (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (1C + 3C) (Non-Contiguous) | 5 MHz + 5 MHz + 5 MHz + 20 MHz  | 33M2G7D | 217.48 | 33M2W7D | 220.04 |
|                 | (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (3C + 1C) (Non-Contiguous) | 5 MHz + 5 MHz + 5 MHz + 20 MHz  | 33M2G7D | 218.67 | 33M2W7D | 219.79 |
|                 | (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (1C + 3C) (Non-Contiguous) | 5 MHz + 5 MHz + 10 MHz + 20 MHz | 38M1G7D | 214.68 | 38M2W7D | 214.71 |
|                 | (4 Port) B66 LTE + B66 LTE + B66 LTE + B66 LTE (3C + 1C) (Non-Contiguous) | 5 MHz + 5 MHz + 10 MHz + 20 MHz | 38M2G7D | 215.97 | 38M1W7D | 217.08 |
| Modulation Type | QPSK, 16QAM, 64QAM, 256QAM                                                |                                 |         |        |         |        |

### 1.3. TEST INFORMATION

|                       |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| FCC Rule Parts        | CFR 47 Part 2, Part 24, Part 27                                                                              |
| Measurement standards | ANSI C63.26-2015, KDB 662911 D01 v02r01, KDB 971168 D01 v03r01                                               |
| Place of Test         | HCT CO., LTD.<br>74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do,<br>17383, Rep. of KOREA |

## 2. FACILITIES AND ACCREDITATIONS

### 2.1. FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA.

The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22.

Detailed description of test facility was submitted to the Commission and accepted dated April 02, 2018 (Registration Number: KR0032).

### 2.2. EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 3. TEST SPECIFICATIONS

#### 3.1. STANDARDS

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 2, Part 24, Part 27

| Description                    | Reference                         | Results   |
|--------------------------------|-----------------------------------|-----------|
| RF Output Power                | § 2.1046, § 24.232, § 27.50(d)(2) | Compliant |
| PAPR                           | § 24.232(d), § 27.50(d)(5)        | Compliant |
| Occupied Bandwidth             | § 2.1049                          | Compliant |
| Out-of-band Unwanted Emissions | § 2.1051, § 24.238, § 27.53(h)    | Compliant |
| Spurious Unwanted Emissions    |                                   | Compliant |
| Radiated Emissions             | § 2.1053, § 24.238, § 27.53(h)    | Compliant |
| Frequency Stability            | § 2.1055, § 24.235, § 27.54       | Compliant |

### 3.2. ADDITIONAL DESCRIPTIONS ABOUT TEST

- The EUT was operated in a manner representative of the typical usage of the equipment.
- During all testing, system components were manipulated within the confines of typical usage to maximize each emission.
- All LTE modulation types (QPSK, 16QAM, 64QAM, 256QAM) have been tested.
- The dummy loads were connected to the RF output ports for radiated spurious emission testing.
- The device was operating at 100% duty cycle
- The tests results in plots are already including the actual value of loss for the attenuator and cable combination. Please check correction factors below table.
- ANT 0/1/2/3 in this report is indicated the test results of the antenna number of each frequency bands like below.

| ANT  | Antenna Number and Band |            |
|------|-------------------------|------------|
| ANT0 | Ant 1 (B66)             | Ant 5 (B2) |
| ANT1 | Ant 2 (B66)             | Ant 6 (B2) |
| ANT2 | Ant 3 (B66)             | Ant 7 (B2) |
| ANT3 | Ant 4 (B66)             | Ant 8 (B2) |

# ANT0

Correction factor table

| Frequency (MHz) | Factor (dB) | Frequency (MHz) | Factor (dB) |
|-----------------|-------------|-----------------|-------------|
| 500             | 33.650      | 4 000           | 39.033      |
| 600             | 33.864      | 5 000           | 38.985      |
| 700             | 33.995      | 6 000           | 39.394      |
| 800             | 34.134      | 7 000           | 39.526      |
| 900             | 34.323      | 8 000           | 39.696      |
| 1 000           | 34.504      | 9 000           | 40.425      |
| 1 100           | 34.547      | 10 000          | 40.309      |
| 1 200           | 34.659      | 11 000          | 41.101      |
| 1 300           | 34.782      | 12 000          | 41.053      |
| 1 400           | 34.916      | 13 000          | 40.806      |
| 1 500           | 35.037      | 14 000          | 41.279      |
| 1 600           | 35.167      | 15 000          | 41.353      |
| 1 700           | 35.223      | 16 000          | 42.032      |
| 1 800           | 35.322      | 17 000          | 42.408      |
| 1 900           | 35.474      | 18 000          | 42.739      |
| 2 000           | 35.646      | 19 000          | 42.530      |
| 2 100           | 35.841      | 20 000          | 44.425      |
| 2 200           | 36.034      | 21 000          | 44.517      |
| 2 300           | 36.391      | 22 000          | 44.144      |
| 2 400           | 36.408      | 23 000          | 44.497      |
| 2 500           | 36.443      | 24 000          | 46.247      |
| 2 600           | 36.427      | 25 000          | 49.764      |
| 2 700           | 36.495      | 26 000          | 46.257      |
| 2 800           | 36.596      | -               | -           |
| 2 900           | 36.660      | -               | -           |
| 3 000           | 36.605      | -               | -           |

# ANT1

Correction factor table

| Frequency (MHz) | Factor (dB) | Frequency (MHz) | Factor (dB) |
|-----------------|-------------|-----------------|-------------|
| 500             | 31.123      | 4 000           | 37.395      |
| 600             | 31.353      | 5 000           | 37.873      |
| 700             | 31.552      | 6 000           | 38.766      |
| 800             | 31.717      | 7 000           | 39.293      |
| 900             | 31.943      | 8 000           | 40.021      |
| 1 000           | 32.172      | 9 000           | 40.708      |
| 1 100           | 32.245      | 10 000          | 41.802      |
| 1 200           | 32.418      | 11 000          | 42.968      |
| 1 300           | 32.561      | 12 000          | 43.840      |
| 1 400           | 32.726      | 13 000          | 42.946      |
| 1 500           | 32.888      | 14 000          | 43.425      |
| 1 600           | 33.021      | 15 000          | 43.615      |
| 1 700           | 33.112      | 16 000          | 44.577      |
| 1 800           | 33.275      | 17 000          | 43.882      |
| 1 900           | 33.432      | 18 000          | 44.061      |
| 2 000           | 33.550      | 19 000          | 43.562      |
| 2 100           | 33.656      | 20 000          | 44.994      |
| 2 200           | 33.743      | 21 000          | 45.649      |
| 2 300           | 33.897      | 22 000          | 45.513      |
| 2 400           | 33.904      | 23 000          | 46.111      |
| 2 500           | 34.107      | 24 000          | 46.237      |
| 2 600           | 34.188      | 25 000          | 46.735      |
| 2 700           | 34.259      | 26 000          | 49.801      |
| 2 800           | 34.467      | -               | -           |
| 2 900           | 34.545      | -               | -           |
| 3 000           | 34.572      | -               | -           |

## ANT2

Correction factor table

| Frequency (MHz) | Factor (dB) | Frequency (MHz) | Factor (dB) |
|-----------------|-------------|-----------------|-------------|
| 500             | 33.557      | 4 000           | 38.751      |
| 600             | 33.782      | 5 000           | 38.732      |
| 700             | 33.930      | 6 000           | 39.001      |
| 800             | 34.084      | 7 000           | 39.230      |
| 900             | 34.287      | 8 000           | 39.259      |
| 1 000           | 34.484      | 9 000           | 39.739      |
| 1 100           | 34.529      | 10 000          | 39.761      |
| 1 200           | 34.650      | 11 000          | 40.159      |
| 1 300           | 34.786      | 12 000          | 40.342      |
| 1 400           | 34.938      | 13 000          | 40.187      |
| 1 500           | 35.048      | 14 000          | 40.749      |
| 1 600           | 35.185      | 15 000          | 40.529      |
| 1 700           | 35.252      | 16 000          | 41.728      |
| 1 800           | 35.332      | 17 000          | 41.104      |
| 1 900           | 35.499      | 18 000          | 42.201      |
| 2 000           | 35.652      | 19 000          | 41.170      |
| 2 100           | 35.781      | 20 000          | 43.137      |
| 2 200           | 35.937      | 21 000          | 43.402      |
| 2 300           | 36.224      | 22 000          | 45.137      |
| 2 400           | 36.240      | 23 000          | 43.489      |
| 2 500           | 36.266      | 24 000          | 46.028      |
| 2 600           | 36.237      | 25 000          | 47.221      |
| 2 700           | 36.349      | 26 000          | 44.850      |
| 2 800           | 36.405      | -               | -           |
| 2 900           | 36.461      | -               | -           |
| 3 000           | 36.395      | -               | -           |



# ANT3

Correction factor table

| Frequency (MHz) | Factor (dB) | Frequency (MHz) | Factor (dB) |
|-----------------|-------------|-----------------|-------------|
| 500             | 33.427      | 4 000           | 38.641      |
| 600             | 33.624      | 5 000           | 38.701      |
| 700             | 33.760      | 6 000           | 39.068      |
| 800             | 33.880      | 7 000           | 38.871      |
| 900             | 34.073      | 8 000           | 38.981      |
| 1 000           | 34.239      | 9 000           | 39.680      |
| 1 100           | 34.293      | 10 000          | 39.697      |
| 1 200           | 34.418      | 11 000          | 40.241      |
| 1 300           | 34.531      | 12 000          | 40.442      |
| 1 400           | 34.651      | 13 000          | 41.828      |
| 1 500           | 34.795      | 14 000          | 42.621      |
| 1 600           | 34.903      | 15 000          | 41.702      |
| 1 700           | 34.965      | 16 000          | 42.338      |
| 1 800           | 35.092      | 17 000          | 42.170      |
| 1 900           | 35.244      | 18 000          | 42.809      |
| 2 000           | 35.412      | 19 000          | 42.366      |
| 2 100           | 35.562      | 20 000          | 44.353      |
| 2 200           | 35.697      | 21 000          | 45.127      |
| 2 300           | 35.915      | 22 000          | 45.994      |
| 2 400           | 35.912      | 23 000          | 46.962      |
| 2 500           | 36.000      | 24 000          | 48.471      |
| 2 600           | 35.964      | 25 000          | 49.924      |
| 2 700           | 35.984      | 26 000          | 47.484      |
| 2 800           | 36.143      | -               | -           |
| 2 900           | 36.147      | -               | -           |
| 3 000           | 36.106      | -               | -           |

### 3.3. MAXIMUM MEASUREMENT UNCERTAINTY

| Description          | Condition       | Uncertainty   |
|----------------------|-----------------|---------------|
| Radiated Disturbance | 9 kHz ~ 30 MHz  | $\pm 3.40$ dB |
|                      | 30 MHz ~ 1 GHz  | $\pm 4.80$ dB |
|                      | 1 GHz ~ 18 GHz  | $\pm 5.70$ dB |
|                      | 18 GHz ~ 40 GHz | $\pm 5.05$ dB |

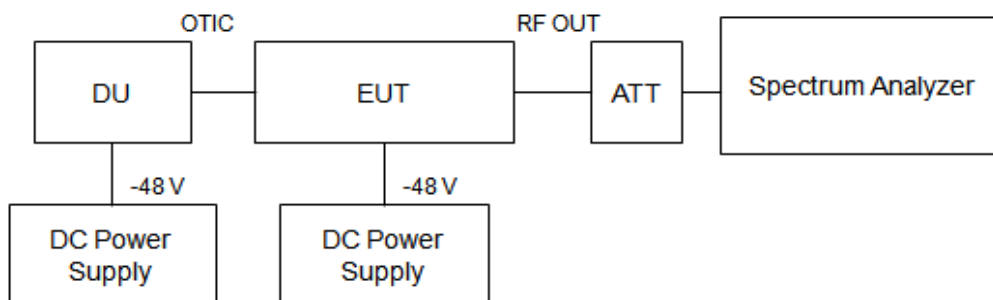
Coverage factor  $k=2$ , Confidence levels of 95 %

### 3.4. STANDARDS ENVIRONMENTAL TEST CONDITIONS

|                    |                        |
|--------------------|------------------------|
| Temperature :      | +15 °C to +35 °C       |
| Relative humidity: | 30 % to 60 %           |
| Air pressure       | 860 mbar to 1 060 mbar |

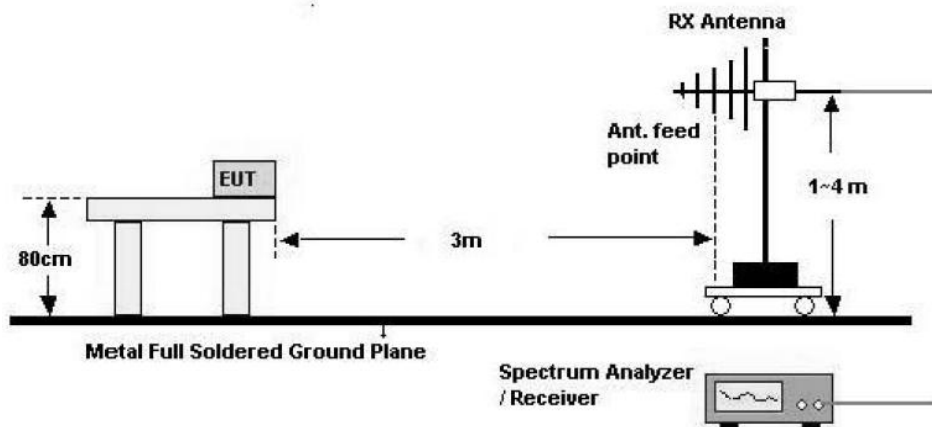
## 3.5. TEST DIAGRAMS

### Conducted Test

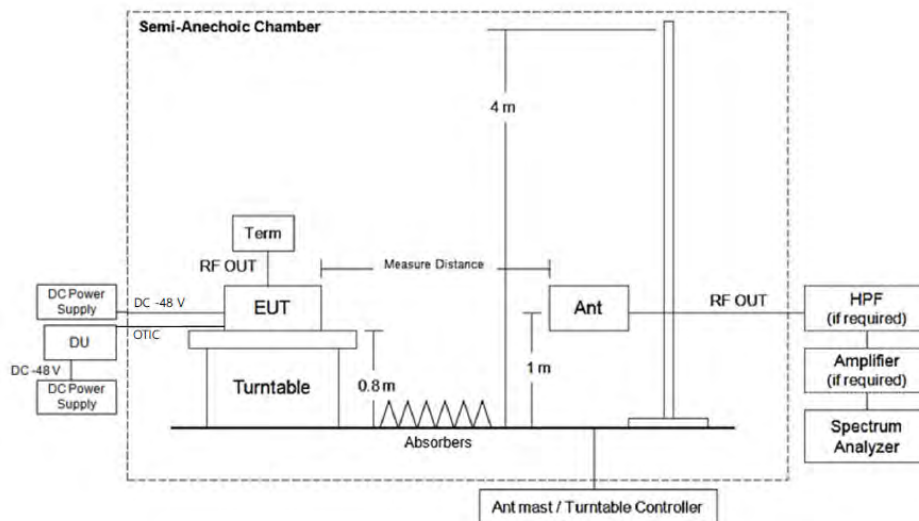


### Radiated Test

30 MHz ~ 1 GHz

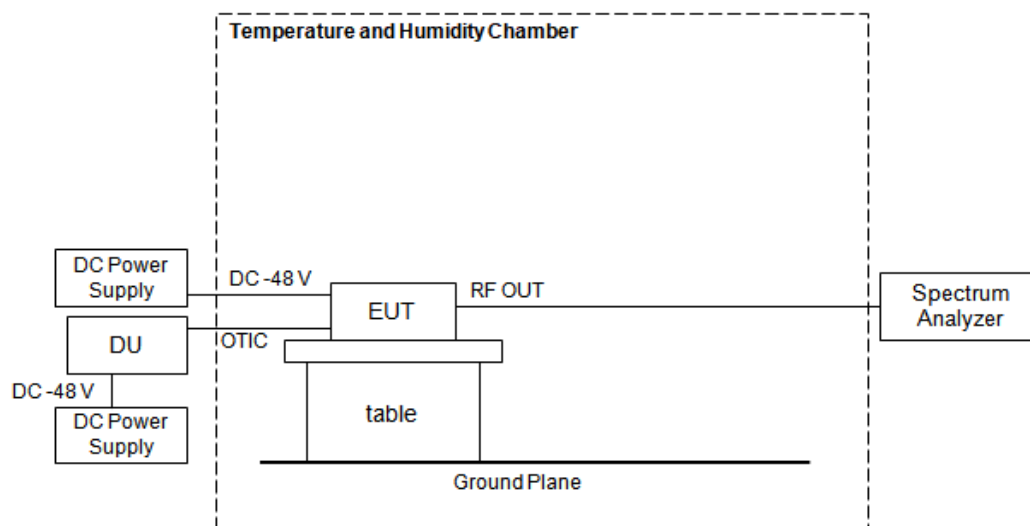


Above 1 GHz



※ EUT position is adopted by placement of floor-standing refer to section 5.5.2.3.2 of ANSI C63.26-2015

## Frequency Stability



**Note:** All modulations(QPSK, 16QAM, 64QAM, 256QAM) were investigated and the worst case configuration channel results are reported.

#### 4. TEST EQUIPMENTS

| Equipment                             | Model                       | Manufacturer           | Serial No.             | Due to Calibration | Calibration Interval |
|---------------------------------------|-----------------------------|------------------------|------------------------|--------------------|----------------------|
| MXA Signal Analyzer                   | N9020A                      | Agilent                | MY46471250             | 2022-08-11         | Annual               |
| PXA Signal Analyzer                   | N9030A                      | Keysight               | US51350313             | 2022-03-30         | Annual               |
| 30 dB Attenuator                      | WA93-30-33                  | Weinschel Associates   | 0137                   | 2022-03-30         | Annual               |
| 30 dB Attenuator                      | WA93-30-33                  | Weinschel Associates   | 0190                   | 2022-03-30         | Annual               |
| 30 dB Attenuator                      | WA93-30-33                  | Weinschel Associates   | 0155                   | 2022-04-01         | Annual               |
| 30 dB Attenuator                      | WA93-30-33                  | Weinschel Associates   | 0149                   | 2022-04-01         | Annual               |
| DC Power Supply                       | 6674A                       | Hewlett Packard        | 3637A01843             | 2022-06-30         | Annual               |
| DC Power Supply                       | PWR1600L                    | KIKUSUI                | RL002213               | 2021-10-14         | Annual               |
| Temperature and Humidity Chamber      | NY-THR18750                 | NANGYEUL CO., LTD.     | NY-200912201A          | 2022-01-14         | Annual               |
| Amp & Filter Bank Switch Controller   | FBSM-01B                    | TNM system             | TM20090002             | N/A                | N/A                  |
| Controller(Antenna mast & Turn Table) | CO3000                      | Innco systems          | CO3000/1251/48920320/P | N/A                | N/A                  |
| Antenna Position Tower                | MA4640/800-XP-ET            | Innco systems          | N/A                    | N/A                | N/A                  |
| Turn Table                            | DS2000-S                    | Innco systems          | N/A                    | N/A                | N/A                  |
| Turn Table                            | Turn Table                  | Ets                    | N/A                    | N/A                | N/A                  |
| Loop Antenna                          | FMZB 1513                   | Schwarzbeck            | 1513-333               | 2022-03-19         | Biennial             |
| Hybrid Antenna                        | VULB 9168                   | Schwarzbeck            | 01039                  | 2022-08-02         | Biennial             |
| Horn Antenna                          | BBHA 9120D                  | Schwarzbeck            | 02296                  | 2022-06-28         | Biennial             |
| Horn Antenna(15 GHz ~ 40 GHz)         | BBHA9170                    | Schwarzbeck            | BBHA9170342            | 2022-10-13         | Biennial             |
| Spectrum Analyzer                     | FSP40                       | Rohde & Schwarz        | 100843                 | 2022-05-27         | Annual               |
| HPF(3 ~ 18 GHz) + LNA(0.1 ~ 18 GHz)   | FBSR-04C                    | TNM system             | N/A                    | 2021-09-23         | Annual               |
| Low Noise Amplifier                   | LLAU1183540Q                | LTC Microwave          | 100                    | 2021-09-23         | Annual               |
| High Pass Filter                      | WHKX12-2805-3000-18000-40SS | Wainwright Instruments | 45                     | 2021-09-23         | Annual               |
| Power Amplifier                       | CBL18265035                 | CERNEX                 | 22966                  | 2021-12-04         | Annual               |
| Power Amplifier                       | CBL26405040                 | CERNEX                 | 25956                  | 2022-03-23         | Annual               |

#### Note:

- Equipment listed above that calibrated during the testing period was set for test after the calibration.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date, or will be tested after the calibration is completed.

## 5. TEST RESULT

### 5.1. RF OUTPUT POWER and PSD

#### Test Requirements:

#### § 2.1046 Measurements required: RF power output.

- (a) For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in § 2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.
- (b) For single sideband, independent sideband, and single channel, controlled carrier radiotelephone transmitters the procedure specified in paragraph (a) of this section shall be employed and, in addition, the transmitter shall be modulated during the test as specified and applicable in § 2.1046 (b) (1-5). In all tests, the input level of the modulating signal shall be such as to develop rated peak envelope power or carrier power, as appropriate, for the transmitter.
- (c) For measurements conducted pursuant to paragraphs (a) and (b) of this section, all calculations and methods used by the applicant for determining carrier power or peak envelope power, as appropriate, on the basis of measured power in the radio frequency load attached to the transmitter output terminals shall be shown. Under the test conditions specified, no components of the emission spectrum shall exceed the limits specified in the applicable rule parts as necessary for meeting occupied bandwidth or emission limitations.

#### § 24.232 Power and antenna height limits.

- (a) (1) Base stations with an emission bandwidth of 1 MHz or less are limited to 1640 watts equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.
- (2) Base stations with an emission bandwidth greater than 1 MHz are limited to 1640 watts/MHz equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.
- (3) Base station antenna heights may exceed 300 meters HAAT with a corresponding reduction in power; see Tables 1 and 2 of this section.
- (4) The service area boundary limit and microwave protection criteria specified in § § 24.236 and 24.237 apply.

Table 1—Reduced Power for Base Station Antenna Heights Over 300 Meters, With Emission Bandwidth of 1 MHz or Less

| HAAT in meters | Maximum EIRP<br>watts |
|----------------|-----------------------|
| ≤300           | 1640                  |
| ≤500           | 1070                  |
| ≤1000          | 490                   |
| ≤1500          | 270                   |
| ≤2000          | 160                   |

Table 2—Reduced Power for Base Station Antenna Heights Over 300 Meters, With Emission Bandwidth Greater Than 1 MHz

| HAAT in meters | Maximum EIRP<br>watts/MHz |
|----------------|---------------------------|
| ≤300           | 1640                      |
| ≤500           | 1070                      |
| ≤1000          | 490                       |
| ≤1500          | 270                       |
| ≤2000          | 160                       |

- (b) (1) Base stations that are located in counties with population densities of 100 persons or fewer per square mile, based upon the most recently available population statistics from the Bureau of the Census, with an emission bandwidth of 1 MHz or less are limited to 3280 watts equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT.
- (2) Base stations that are located in counties with population densities of 100 persons or fewer per square mile, based upon the most recently available population statistics from the Bureau of the Census, with an emission bandwidth greater than 1 MHz are limited to 3280 watts/MHz equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT.
- (3) Base station antenna heights may exceed 300 meters HAAT with a corresponding reduction in power; see Tables 3 and 4 of this section.
- (4) The service area boundary limit and microwave protection criteria specified in § § 24.236 and 24.237 apply.
- (5) Operation under this paragraph (b) at power limits greater than permitted under paragraph (a) of this section must be coordinated in advance with all broadband PCS licensees authorized to operate on adjacent frequency blocks within 120 kilometers (75 miles) of the base station and is limited to base stations located more than 120 kilometers (75 miles) from the Canadian border and more than 75 kilometers (45 miles) from the Mexican border.

Table 3—Reduced Power for Base Station Antenna Heights Over 300 Meters, With Emission Bandwidth of 1 MHz or Less

| HAAT in meters | Maximum EIRP<br>watts |
|----------------|-----------------------|
| ≤300           | 3280                  |
| ≤500           | 2140                  |
| ≤1000          | 980                   |
| ≤1500          | 540                   |
| ≤2000          | 320                   |

Table 4—Reduced Power for Base Station Antenna Heights Over 300 Meters, With Emission Bandwidth Greater Than 1 MHz

| HAAT in meters | Maximum EIRP<br>watts/MHz |
|----------------|---------------------------|
| $\leq 300$     | 3280                      |
| $\leq 500$     | 2140                      |
| $\leq 1000$    | 980                       |
| $\leq 1500$    | 540                       |
| $\leq 2000$    | 320                       |

- (c) Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.
- (d) Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
- (e) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

#### § 27.50 Power limits and duty cycle.

- (d) (2) The power of each fixed or base station transmitting in the 1995-2000 MHz, the 2110-2155 MHz 2155-2180 MHz band, or 2180-2200 MHz band and situated in any geographic location other than that described in paragraph (d)(1) of this section is limited to:
  - (ii) An EIRP of 1640 watts/MHz when transmitting with an emission bandwidth greater than 1 MHz.
- (5) Equipment employed must be authorized in accordance with the provisions of § 24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

#### Test Procedures:

The measurement is performed in accordance with Section 5.2.4.4.1 of ANSI C63.26.

The EUT is considered to transmit continuously if it can be configured to transmit at a burst duty cycle of greater than or equal to 98% throughout the duration of the measurement. If this condition can be achieved, then the following procedure can be used to measure the average output power of the EUT.

- a) Set span to  $2 \times$  to  $3 \times$  the OBW.
- b) Set RBW = 1% to 5% of the OBW.
- c) Set VBW  $\geq 3 \times$  RBW.



- d) Set number of measurement points in sweep  $\geq 2 \times \text{span} / \text{RBW}$ .
- e) Sweep time:
  - 1) Set = auto-couple, or
  - 2) Set  $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$  for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.
- f) Detector = power averaging (rms).
- g) If the EUT can be configured to transmit continuously, then set the trigger to free run.
- h) If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full-power transmissions).
- i) Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over multiple symbols, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.
- j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function, with the band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

The measurement is performed in accordance with Section 5.2.4.5 of ANSI C63.26.

Some regulatory requirements specify the RF output power limits in terms of maximum or average PSD, (i.e., the output power or unwanted emissions power limits are defined within a specified reference bandwidth).

When average PSD limits are specified, the same fundamental measurement condition applies as previously discussed (i.e., averaging is to be performed only over durations of active transmissions at maximum output power level). Thus, when performing this measurement, the EUT must either be configured to transmit continuously at full power while the compliance measurement is performed, or else the measurement instrumentation must be configured to acquire data only over durations when the EUT is actively transmitting at full power. In circumstances where neither of these conditions can be realized, then alternative procedures are provided for both constant duty cycle and non-constant duty cycle transmissions.

The PSD is measured following the same procedures described in 5.2.4.4 for measuring the total average power, but with the RBW set to the reference bandwidth specified by the applicable regulatory requirement, and by using the marker function to identify the maximum PSD instead of summing the power across the OBW. If the fundamental measurement condition cannot be realized, then one of the alternative procedures in 5.2.4.4.2 or 5.2.4.4.3 should be selected, based on whether the transmitter duty cycle is constant (variations  $\leq \pm 2\%$ ) or non-constant (variations  $> \pm 2\%$ ), respectively.

**Note:** The results of the Conducted output power and PSD test shown above the frequency measured values are very small and similar trend for each port, so we are attached only the worst case plot.

**Test Results:**
**Tabular Data of RF output power**
**(2 Port) B2 LTE 5 MHz 1 Carrier**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1932.50         | 45.06                | 32.09          |
|      |        | Middle | 1960.00         | 45.47                | 35.27          |
|      |        | High   | 1987.50         | 45.56                | 35.96          |
|      | 16QAM  | Low    | 1932.50         | 45.05                | 31.97          |
|      |        | Middle | 1960.00         | 45.67                | 36.90          |
|      |        | High   | 1987.50         | 45.67                | 36.91          |
|      | 64QAM  | Low    | 1932.50         | 45.10                | 32.34          |
|      |        | Middle | 1960.00         | 45.52                | 35.67          |
|      |        | High   | 1987.50         | 45.60                | 36.31          |
|      | 256QAM | Low    | 1932.50         | 45.08                | 32.22          |
|      |        | Middle | 1960.00         | 45.56                | 35.94          |
|      |        | High   | 1987.50         | 45.67                | 36.92          |
| 1    | QPSK   | Low    | 1932.50         | 45.18                | 32.97          |
|      |        | Middle | 1960.00         | 45.58                | 36.14          |
|      |        | High   | 1987.50         | 45.82                | 38.19          |
|      | 16QAM  | Low    | 1932.50         | 45.17                | 32.90          |
|      |        | Middle | 1960.00         | 45.52                | 35.64          |
|      |        | High   | 1987.50         | 45.68                | 37.00          |
|      | 64QAM  | Low    | 1932.50         | 45.11                | 32.41          |
|      |        | Middle | 1960.00         | 45.59                | 36.23          |
|      |        | High   | 1987.50         | 45.76                | 37.65          |
|      | 256QAM | Low    | 1932.50         | 45.17                | 32.92          |
|      |        | Middle | 1960.00         | 45.62                | 36.49          |
|      |        | High   | 1987.50         | 45.73                | 37.42          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |       |       |        |
|-----------------|-------------------------|-------|-------|--------|
|                 | QPSK                    | 16QAM | 64QAM | 256QAM |
|                 | W                       |       |       |        |
| 1932.50         | 65.06                   | 64.87 | 64.76 | 65.14  |
| 1960.00         | 71.41                   | 72.54 | 71.90 | 72.44  |
| 1987.50         | 74.15                   | 73.91 | 73.96 | 74.34  |

## (2 Port) B2 LTE 10 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1935.00         | 46.86                | 48.52          |
|      |        | Middle | 1960.00         | 47.22                | 52.74          |
|      |        | High   | 1985.00         | 47.30                | 53.77          |
|      | 16QAM  | Low    | 1935.00         | 46.83                | 48.18          |
|      |        | Middle | 1960.00         | 47.20                | 52.44          |
|      |        | High   | 1985.00         | 47.31                | 53.86          |
|      | 64QAM  | Low    | 1935.00         | 46.86                | 48.57          |
|      |        | Middle | 1960.00         | 47.22                | 52.76          |
|      |        | High   | 1985.00         | 47.34                | 54.24          |
|      | 256QAM | Low    | 1935.00         | 46.83                | 48.18          |
|      |        | Middle | 1960.00         | 47.25                | 53.04          |
|      |        | High   | 1985.00         | 47.32                | 53.91          |
| 1    | QPSK   | Low    | 1935.00         | 46.81                | 48.01          |
|      |        | Middle | 1960.00         | 47.29                | 53.55          |
|      |        | High   | 1985.00         | 47.35                | 54.35          |
|      | 16QAM  | Low    | 1935.00         | 46.85                | 48.47          |
|      |        | Middle | 1960.00         | 47.28                | 53.51          |
|      |        | High   | 1985.00         | 47.39                | 54.87          |
|      | 64QAM  | Low    | 1935.00         | 46.82                | 48.07          |
|      |        | Middle | 1960.00         | 47.30                | 53.73          |
|      |        | High   | 1985.00         | 47.41                | 55.03          |
|      | 256QAM | Low    | 1935.00         | 46.84                | 48.25          |
|      |        | Middle | 1960.00         | 47.22                | 52.77          |
|      |        | High   | 1985.00         | 47.32                | 53.90          |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1935.00         | 96.53                   | 96.66  | 96.65  | 96.44  |
| 1960.00         | 106.29                  | 105.95 | 106.49 | 105.81 |
| 1985.00         | 108.12                  | 108.73 | 109.27 | 107.82 |

## (2 Port) B2 LTE 15 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1937.50         | 46.83                | 48.17          |
|      |        | Middle | 1960.00         | 47.27                | 53.33          |
|      |        | High   | 1982.50         | 47.31                | 53.79          |
|      | 16QAM  | Low    | 1937.50         | 46.90                | 48.99          |
|      |        | Middle | 1960.00         | 47.29                | 53.64          |
|      |        | High   | 1982.50         | 47.34                | 54.23          |
|      | 64QAM  | Low    | 1937.50         | 46.87                | 48.69          |
|      |        | Middle | 1960.00         | 47.24                | 52.97          |
|      |        | High   | 1982.50         | 47.38                | 54.74          |
|      | 256QAM | Low    | 1937.50         | 46.84                | 48.36          |
|      |        | Middle | 1960.00         | 47.23                | 52.78          |
|      |        | High   | 1982.50         | 47.35                | 54.35          |
| 1    | QPSK   | Low    | 1937.50         | 46.82                | 48.13          |
|      |        | Middle | 1960.00         | 47.29                | 53.57          |
|      |        | High   | 1982.50         | 47.43                | 55.37          |
|      | 16QAM  | Low    | 1937.50         | 46.81                | 47.97          |
|      |        | Middle | 1960.00         | 47.26                | 53.16          |
|      |        | High   | 1982.50         | 47.36                | 54.40          |
|      | 64QAM  | Low    | 1937.50         | 46.83                | 48.21          |
|      |        | Middle | 1960.00         | 47.29                | 53.58          |
|      |        | High   | 1982.50         | 47.37                | 54.56          |
|      | 256QAM | Low    | 1937.50         | 46.81                | 48.02          |
|      |        | Middle | 1960.00         | 47.23                | 52.87          |
|      |        | High   | 1982.50         | 47.39                | 54.87          |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1937.50         | 96.30                   | 96.96  | 96.89  | 96.38  |
| 1960.00         | 106.90                  | 106.81 | 106.55 | 105.65 |
| 1982.50         | 109.17                  | 108.63 | 109.30 | 109.22 |

## (2 Port) B2 LTE 20 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1940.00         | 46.86                | 48.56          |
|      |        | Middle | 1960.00         | 47.28                | 53.41          |
|      |        | High   | 1980.00         | 47.29                | 53.59          |
|      | 16QAM  | Low    | 1940.00         | 46.99                | 49.97          |
|      |        | Middle | 1960.00         | 47.24                | 52.98          |
|      |        | High   | 1980.00         | 47.31                | 53.85          |
|      | 64QAM  | Low    | 1940.00         | 46.88                | 48.81          |
|      |        | Middle | 1960.00         | 47.26                | 53.20          |
|      |        | High   | 1980.00         | 47.29                | 53.52          |
|      | 256QAM | Low    | 1940.00         | 46.94                | 49.39          |
|      |        | Middle | 1960.00         | 47.24                | 53.03          |
|      |        | High   | 1980.00         | 47.33                | 54.11          |
| 1    | QPSK   | Low    | 1940.00         | 46.96                | 49.67          |
|      |        | Middle | 1960.00         | 47.20                | 52.48          |
|      |        | High   | 1980.00         | 47.35                | 54.33          |
|      | 16QAM  | Low    | 1940.00         | 46.92                | 49.20          |
|      |        | Middle | 1960.00         | 47.22                | 52.67          |
|      |        | High   | 1980.00         | 47.39                | 54.83          |
|      | 64QAM  | Low    | 1940.00         | 46.93                | 49.29          |
|      |        | Middle | 1960.00         | 47.30                | 53.69          |
|      |        | High   | 1980.00         | 47.38                | 54.73          |
|      | 256QAM | Low    | 1940.00         | 46.90                | 49.01          |
|      |        | Middle | 1960.00         | 47.26                | 53.16          |
|      |        | High   | 1980.00         | 47.34                | 54.24          |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1940.00         | 98.24                   | 99.17  | 98.11  | 98.40  |
| 1960.00         | 105.89                  | 105.65 | 106.89 | 106.19 |
| 1980.00         | 107.92                  | 108.68 | 108.25 | 108.35 |

## (4 Port) B2 LTE 5 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1932.50         | 42.17                | 16.50          |
|      |        | Middle | 1960.00         | 42.73                | 18.75          |
|      |        | High   | 1987.50         | 42.95                | 19.73          |
|      | 16QAM  | Low    | 1932.50         | 42.11                | 16.27          |
|      |        | Middle | 1960.00         | 42.81                | 19.09          |
|      |        | High   | 1987.50         | 42.92                | 19.59          |
|      | 64QAM  | Low    | 1932.50         | 42.09                | 16.17          |
|      |        | Middle | 1960.00         | 42.73                | 18.75          |
|      |        | High   | 1987.50         | 42.76                | 18.86          |
|      | 256QAM | Low    | 1932.50         | 42.07                | 16.10          |
|      |        | Middle | 1960.00         | 42.71                | 18.67          |
|      |        | High   | 1987.50         | 42.92                | 19.60          |
| 1    | QPSK   | Low    | 1932.50         | 42.05                | 16.03          |
|      |        | Middle | 1960.00         | 42.74                | 18.79          |
|      |        | High   | 1987.50         | 42.97                | 19.83          |
|      | 16QAM  | Low    | 1932.50         | 42.07                | 16.11          |
|      |        | Middle | 1960.00         | 42.63                | 18.30          |
|      |        | High   | 1987.50         | 42.95                | 19.72          |
|      | 64QAM  | Low    | 1932.50         | 42.09                | 16.20          |
|      |        | Middle | 1960.00         | 42.74                | 18.78          |
|      |        | High   | 1987.50         | 42.94                | 19.69          |
|      | 256QAM | Low    | 1932.50         | 42.13                | 16.34          |
|      |        | Middle | 1960.00         | 42.68                | 18.54          |
|      |        | High   | 1987.50         | 42.81                | 19.12          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 1932.50         | 42.06                | 16.07          |
|      |        | Middle | 1960.00         | 42.30                | 16.99          |
|      |        | High   | 1987.50         | 42.54                | 17.93          |
|      | 16QAM  | Low    | 1932.50         | 42.06                | 16.08          |
|      |        | Middle | 1960.00         | 42.31                | 17.04          |
|      |        | High   | 1987.50         | 42.54                | 17.95          |
|      | 64QAM  | Low    | 1932.50         | 42.06                | 16.08          |
|      |        | Middle | 1960.00         | 42.39                | 17.35          |
|      |        | High   | 1987.50         | 42.47                | 17.66          |
|      | 256QAM | Low    | 1932.50         | 42.10                | 16.21          |
|      |        | Middle | 1960.00         | 42.58                | 18.11          |
|      |        | High   | 1987.50         | 42.39                | 17.34          |
| 3    | QPSK   | Low    | 1932.50         | 42.06                | 16.07          |
|      |        | Middle | 1960.00         | 42.45                | 17.60          |
|      |        | High   | 1987.50         | 42.68                | 18.55          |
|      | 16QAM  | Low    | 1932.50         | 42.12                | 16.29          |
|      |        | Middle | 1960.00         | 42.43                | 17.48          |
|      |        | High   | 1987.50         | 42.66                | 18.44          |
|      | 64QAM  | Low    | 1932.50         | 42.09                | 16.17          |
|      |        | Middle | 1960.00         | 42.44                | 17.54          |
|      |        | High   | 1987.50         | 42.58                | 18.11          |
|      | 256QAM | Low    | 1932.50         | 42.11                | 16.24          |
|      |        | Middle | 1960.00         | 42.45                | 17.57          |
|      |        | High   | 1987.50         | 42.58                | 18.11          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |       |       |        |
|-----------------|-------------------------|-------|-------|--------|
|                 | QPSK                    | 16QAM | 64QAM | 256QAM |
|                 | W                       |       |       |        |
| 1932.50         | 64.66                   | 64.75 | 64.61 | 64.88  |
| 1960.00         | 72.13                   | 71.91 | 72.42 | 72.90  |
| 1987.50         | 76.05                   | 75.70 | 74.32 | 74.17  |

## (4 Port) B2 LTE 10 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1935.00         | 45.32                | 34.04          |
|      |        | Middle | 1960.00         | 45.62                | 36.50          |
|      |        | High   | 1985.00         | 45.76                | 37.69          |
|      | 16QAM  | Low    | 1935.00         | 45.29                | 33.84          |
|      |        | Middle | 1960.00         | 45.70                | 37.17          |
|      |        | High   | 1985.00         | 45.80                | 37.99          |
|      | 64QAM  | Low    | 1935.00         | 45.29                | 33.84          |
|      |        | Middle | 1960.00         | 45.68                | 37.01          |
|      |        | High   | 1985.00         | 45.78                | 37.88          |
|      | 256QAM | Low    | 1935.00         | 45.28                | 33.70          |
|      |        | Middle | 1960.00         | 45.68                | 37.03          |
|      |        | High   | 1985.00         | 45.82                | 38.20          |
| 1    | QPSK   | Low    | 1935.00         | 45.13                | 32.57          |
|      |        | Middle | 1960.00         | 45.70                | 37.18          |
|      |        | High   | 1985.00         | 45.83                | 38.31          |
|      | 16QAM  | Low    | 1935.00         | 45.18                | 32.94          |
|      |        | Middle | 1960.00         | 45.66                | 36.80          |
|      |        | High   | 1985.00         | 45.88                | 38.75          |
|      | 64QAM  | Low    | 1935.00         | 45.10                | 32.36          |
|      |        | Middle | 1960.00         | 45.76                | 37.65          |
|      |        | High   | 1985.00         | 45.77                | 37.75          |
|      | 256QAM | Low    | 1935.00         | 45.13                | 32.62          |
|      |        | Middle | 1960.00         | 45.69                | 37.06          |
|      |        | High   | 1985.00         | 45.84                | 38.34          |



| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 1935.00         | 45.04                | 31.92          |
|      |        | Middle | 1960.00         | 45.31                | 33.97          |
|      |        | High   | 1985.00         | 45.42                | 34.83          |
|      | 16QAM  | Low    | 1935.00         | 45.07                | 32.13          |
|      |        | Middle | 1960.00         | 45.29                | 33.80          |
|      |        | High   | 1985.00         | 45.44                | 34.99          |
|      | 64QAM  | Low    | 1935.00         | 45.05                | 32.00          |
|      |        | Middle | 1960.00         | 45.35                | 34.29          |
|      |        | High   | 1985.00         | 45.41                | 34.79          |
|      | 256QAM | Low    | 1935.00         | 45.04                | 31.93          |
|      |        | Middle | 1960.00         | 45.28                | 33.71          |
|      |        | High   | 1985.00         | 45.44                | 35.01          |
| 3    | QPSK   | Low    | 1935.00         | 45.06                | 32.08          |
|      |        | Middle | 1960.00         | 45.45                | 35.03          |
|      |        | High   | 1985.00         | 45.45                | 35.08          |
|      | 16QAM  | Low    | 1935.00         | 45.06                | 32.08          |
|      |        | Middle | 1960.00         | 45.50                | 35.51          |
|      |        | High   | 1985.00         | 45.47                | 35.24          |
|      | 64QAM  | Low    | 1935.00         | 45.09                | 32.26          |
|      |        | Middle | 1960.00         | 45.50                | 35.51          |
|      |        | High   | 1985.00         | 45.45                | 35.03          |
|      | 256QAM | Low    | 1935.00         | 45.06                | 32.05          |
|      |        | Middle | 1960.00         | 45.46                | 35.18          |
|      |        | High   | 1985.00         | 45.48                | 35.29          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1935.00         | 130.61                  | 130.99 | 130.46 | 130.30 |
| 1960.00         | 142.68                  | 143.28 | 144.46 | 142.97 |
| 1985.00         | 145.91                  | 146.98 | 145.46 | 146.85 |

## (4 Port) B2 LTE 15 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1937.50         | 45.26                | 33.61          |
|      |        | Middle | 1960.00         | 45.49                | 35.40          |
|      |        | High   | 1982.50         | 45.61                | 36.37          |
|      | 16QAM  | Low    | 1937.50         | 45.16                | 32.78          |
|      |        | Middle | 1960.00         | 45.60                | 36.33          |
|      |        | High   | 1982.50         | 45.64                | 36.61          |
|      | 64QAM  | Low    | 1937.50         | 45.25                | 33.53          |
|      |        | Middle | 1960.00         | 45.50                | 35.48          |
|      |        | High   | 1982.50         | 45.60                | 36.32          |
|      | 256QAM | Low    | 1937.50         | 45.27                | 33.67          |
|      |        | Middle | 1960.00         | 45.54                | 35.79          |
|      |        | High   | 1982.50         | 45.64                | 36.68          |
| 1    | QPSK   | Low    | 1937.50         | 45.45                | 35.05          |
|      |        | Middle | 1960.00         | 45.86                | 38.56          |
|      |        | High   | 1982.50         | 46.10                | 40.73          |
|      | 16QAM  | Low    | 1937.50         | 45.52                | 35.63          |
|      |        | Middle | 1960.00         | 45.95                | 39.38          |
|      |        | High   | 1982.50         | 46.10                | 40.75          |
|      | 64QAM  | Low    | 1937.50         | 45.46                | 35.16          |
|      |        | Middle | 1960.00         | 45.85                | 38.44          |
|      |        | High   | 1982.50         | 46.04                | 40.19          |
|      | 256QAM | Low    | 1937.50         | 45.42                | 34.84          |
|      |        | Middle | 1960.00         | 45.84                | 38.34          |
|      |        | High   | 1982.50         | 46.09                | 40.63          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 1937.50         | 45.31                | 33.98          |
|      |        | Middle | 1960.00         | 45.73                | 37.38          |
|      |        | High   | 1982.50         | 45.85                | 38.46          |
|      | 16QAM  | Low    | 1937.50         | 45.40                | 34.67          |
|      |        | Middle | 1960.00         | 45.71                | 37.23          |
|      |        | High   | 1982.50         | 45.84                | 38.37          |
|      | 64QAM  | Low    | 1937.50         | 45.29                | 33.81          |
|      |        | Middle | 1960.00         | 45.77                | 37.78          |
|      |        | High   | 1982.50         | 45.92                | 39.08          |
|      | 256QAM | Low    | 1937.50         | 45.27                | 33.68          |
|      |        | Middle | 1960.00         | 45.74                | 37.47          |
|      |        | High   | 1982.50         | 45.87                | 38.62          |
| 3    | QPSK   | Low    | 1937.50         | 45.26                | 33.57          |
|      |        | Middle | 1960.00         | 45.74                | 37.53          |
|      |        | High   | 1982.50         | 45.89                | 38.78          |
|      | 16QAM  | Low    | 1937.50         | 45.35                | 34.25          |
|      |        | Middle | 1960.00         | 45.79                | 37.91          |
|      |        | High   | 1982.50         | 45.83                | 38.26          |
|      | 64QAM  | Low    | 1937.50         | 45.24                | 33.43          |
|      |        | Middle | 1960.00         | 45.75                | 37.62          |
|      |        | High   | 1982.50         | 45.89                | 38.81          |
|      | 256QAM | Low    | 1937.50         | 45.18                | 32.97          |
|      |        | Middle | 1960.00         | 45.74                | 37.46          |
|      |        | High   | 1982.50         | 45.89                | 38.83          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1937.50         | 136.22                  | 137.32 | 135.92 | 135.16 |
| 1960.00         | 148.86                  | 150.86 | 149.32 | 149.06 |
| 1982.50         | 154.34                  | 153.99 | 154.40 | 154.76 |

## (4 Port) B2 LTE 20 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1940.00         | 45.18                | 32.95          |
|      |        | Middle | 1960.00         | 45.69                | 37.09          |
|      |        | High   | 1980.00         | 45.62                | 36.45          |
|      | 16QAM  | Low    | 1940.00         | 45.20                | 33.12          |
|      |        | Middle | 1960.00         | 45.60                | 36.35          |
|      |        | High   | 1980.00         | 45.78                | 37.88          |
|      | 64QAM  | Low    | 1940.00         | 45.16                | 32.78          |
|      |        | Middle | 1960.00         | 45.65                | 36.71          |
|      |        | High   | 1980.00         | 45.68                | 37.03          |
|      | 256QAM | Low    | 1940.00         | 45.25                | 33.47          |
|      |        | Middle | 1960.00         | 45.70                | 37.14          |
|      |        | High   | 1980.00         | 45.73                | 37.41          |
| 1    | QPSK   | Low    | 1940.00         | 45.44                | 34.99          |
|      |        | Middle | 1960.00         | 45.93                | 39.16          |
|      |        | High   | 1980.00         | 46.14                | 41.16          |
|      | 16QAM  | Low    | 1940.00         | 45.46                | 35.13          |
|      |        | Middle | 1960.00         | 45.97                | 39.49          |
|      |        | High   | 1980.00         | 46.14                | 41.09          |
|      | 64QAM  | Low    | 1940.00         | 45.39                | 34.56          |
|      |        | Middle | 1960.00         | 45.93                | 39.20          |
|      |        | High   | 1980.00         | 46.11                | 40.83          |
|      | 256QAM | Low    | 1940.00         | 45.40                | 34.71          |
|      |        | Middle | 1960.00         | 45.92                | 39.06          |
|      |        | High   | 1980.00         | 46.14                | 41.13          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 1940.00         | 45.34                | 34.22          |
|      |        | Middle | 1960.00         | 45.70                | 37.14          |
|      |        | High   | 1980.00         | 45.92                | 39.11          |
|      | 16QAM  | Low    | 1940.00         | 45.36                | 34.36          |
|      |        | Middle | 1960.00         | 45.79                | 37.90          |
|      |        | High   | 1980.00         | 45.83                | 38.32          |
|      | 64QAM  | Low    | 1940.00         | 45.31                | 33.95          |
|      |        | Middle | 1960.00         | 45.73                | 37.39          |
|      |        | High   | 1980.00         | 45.86                | 38.52          |
|      | 256QAM | Low    | 1940.00         | 45.35                | 34.28          |
|      |        | Middle | 1960.00         | 45.75                | 37.59          |
|      |        | High   | 1980.00         | 45.86                | 38.59          |
| 3    | QPSK   | Low    | 1940.00         | 45.44                | 35.03          |
|      |        | Middle | 1960.00         | 45.77                | 37.77          |
|      |        | High   | 1980.00         | 45.92                | 39.06          |
|      | 16QAM  | Low    | 1940.00         | 45.39                | 34.62          |
|      |        | Middle | 1960.00         | 45.80                | 38.04          |
|      |        | High   | 1980.00         | 45.89                | 38.78          |
|      | 64QAM  | Low    | 1940.00         | 45.42                | 34.82          |
|      |        | Middle | 1960.00         | 45.77                | 37.74          |
|      |        | High   | 1980.00         | 45.87                | 38.60          |
|      | 256QAM | Low    | 1940.00         | 45.40                | 34.67          |
|      |        | Middle | 1960.00         | 45.78                | 37.83          |
|      |        | High   | 1980.00         | 45.90                | 38.89          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1940.00         | 137.20                  | 137.23 | 136.11 | 137.11 |
| 1960.00         | 151.17                  | 151.77 | 151.05 | 151.62 |
| 1980.00         | 155.78                  | 156.06 | 154.98 | 156.02 |

**(2 Port) B66 LTE 5 MHz 1 Carrier**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2112.50         | 45.33                | 34.11          |
|      |        | Middle | 2145.00         | 45.40                | 34.71          |
|      |        | High   | 2177.50         | 45.56                | 36.00          |
|      | 16QAM  | Low    | 2112.50         | 45.30                | 33.92          |
|      |        | Middle | 2145.00         | 45.52                | 35.68          |
|      |        | High   | 2177.50         | 45.50                | 35.48          |
|      | 64QAM  | Low    | 2112.50         | 45.23                | 33.36          |
|      |        | Middle | 2145.00         | 45.52                | 35.62          |
|      |        | High   | 2177.50         | 45.60                | 36.27          |
|      | 256QAM | Low    | 2112.50         | 45.23                | 33.34          |
|      |        | Middle | 2145.00         | 45.48                | 35.29          |
|      |        | High   | 2177.50         | 45.53                | 35.74          |
| 1    | QPSK   | Low    | 2112.50         | 45.51                | 35.58          |
|      |        | Middle | 2145.00         | 45.69                | 37.10          |
|      |        | High   | 2177.50         | 45.67                | 36.93          |
|      | 16QAM  | Low    | 2112.50         | 45.42                | 34.84          |
|      |        | Middle | 2145.00         | 45.57                | 36.06          |
|      |        | High   | 2177.50         | 45.61                | 36.42          |
|      | 64QAM  | Low    | 2112.50         | 45.50                | 35.46          |
|      |        | Middle | 2145.00         | 45.60                | 36.30          |
|      |        | High   | 2177.50         | 45.60                | 36.28          |
|      | 256QAM | Low    | 2112.50         | 45.48                | 35.35          |
|      |        | Middle | 2145.00         | 45.57                | 36.06          |
|      |        | High   | 2177.50         | 45.62                | 36.51          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |       |       |        |
|-----------------|-------------------------|-------|-------|--------|
|                 | QPSK                    | 16QAM | 64QAM | 256QAM |
|                 | W                       |       |       |        |
| 2112.50         | 69.69                   | 68.76 | 68.82 | 68.70  |
| 2145.00         | 71.81                   | 71.74 | 71.92 | 71.35  |
| 2177.50         | 72.93                   | 71.90 | 72.55 | 72.25  |

**(2 Port) B66 LTE 10 MHz 1 Carrier**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2115.00         | 48.41                | 69.34          |
|      |        | Middle | 2145.00         | 48.56                | 71.78          |
|      |        | High   | 2175.00         | 48.50                | 70.86          |
|      | 16QAM  | Low    | 2115.00         | 48.45                | 69.98          |
|      |        | Middle | 2145.00         | 48.57                | 72.01          |
|      |        | High   | 2175.00         | 48.57                | 71.96          |
|      | 64QAM  | Low    | 2115.00         | 48.38                | 68.80          |
|      |        | Middle | 2145.00         | 48.52                | 71.14          |
|      |        | High   | 2175.00         | 48.56                | 71.81          |
|      | 256QAM | Low    | 2115.00         | 48.43                | 69.60          |
|      |        | Middle | 2145.00         | 48.54                | 71.48          |
|      |        | High   | 2175.00         | 48.54                | 71.37          |
| 1    | QPSK   | Low    | 2115.00         | 48.62                | 72.81          |
|      |        | Middle | 2145.00         | 48.59                | 72.28          |
|      |        | High   | 2175.00         | 48.66                | 73.50          |
|      | 16QAM  | Low    | 2115.00         | 48.52                | 71.12          |
|      |        | Middle | 2145.00         | 48.62                | 72.76          |
|      |        | High   | 2175.00         | 48.67                | 73.62          |
|      | 64QAM  | Low    | 2115.00         | 48.59                | 72.24          |
|      |        | Middle | 2145.00         | 48.64                | 73.08          |
|      |        | High   | 2175.00         | 48.61                | 72.58          |
|      | 256QAM | Low    | 2115.00         | 48.62                | 72.76          |
|      |        | Middle | 2145.00         | 48.62                | 72.85          |
|      |        | High   | 2175.00         | 48.60                | 72.44          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2115.00         | 142.16                  | 141.11 | 141.05 | 142.36 |
| 2145.00         | 144.06                  | 144.77 | 144.22 | 144.33 |
| 2175.00         | 144.36                  | 145.58 | 144.39 | 143.81 |

**(2 Port) B66 LTE 15 MHz 1 Carrier**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2117.50         | 48.47                | 70.39          |
|      |        | Middle | 2145.00         | 48.48                | 70.39          |
|      |        | High   | 2172.50         | 48.49                | 70.70          |
|      | 16QAM  | Low    | 2117.50         | 48.55                | 71.65          |
|      |        | Middle | 2145.00         | 48.61                | 72.53          |
|      |        | High   | 2172.50         | 48.54                | 71.38          |
|      | 64QAM  | Low    | 2117.50         | 48.49                | 70.62          |
|      |        | Middle | 2145.00         | 48.57                | 71.91          |
|      |        | High   | 2172.50         | 48.61                | 72.63          |
|      | 256QAM | Low    | 2117.50         | 48.45                | 69.94          |
|      |        | Middle | 2145.00         | 48.61                | 72.64          |
|      |        | High   | 2172.50         | 48.54                | 71.48          |
| 1    | QPSK   | Low    | 2117.50         | 48.64                | 73.08          |
|      |        | Middle | 2145.00         | 48.65                | 73.30          |
|      |        | High   | 2172.50         | 48.72                | 74.46          |
|      | 16QAM  | Low    | 2117.50         | 48.70                | 74.18          |
|      |        | Middle | 2145.00         | 48.64                | 73.13          |
|      |        | High   | 2172.50         | 48.62                | 72.71          |
|      | 64QAM  | Low    | 2117.50         | 48.63                | 72.88          |
|      |        | Middle | 2145.00         | 48.67                | 73.55          |
|      |        | High   | 2172.50         | 48.65                | 73.27          |
|      | 256QAM | Low    | 2117.50         | 48.59                | 72.36          |
|      |        | Middle | 2145.00         | 48.65                | 73.32          |
|      |        | High   | 2172.50         | 48.61                | 72.68          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2117.50         | 143.47                  | 145.83 | 143.50 | 142.30 |
| 2145.00         | 143.69                  | 145.66 | 145.47 | 145.96 |
| 2172.50         | 145.15                  | 144.10 | 145.89 | 144.16 |



## (2 Port) B66 LTE 20 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2120.00         | 48.42                | 69.57          |
|      |        | Middle | 2145.00         | 48.57                | 71.91          |
|      |        | High   | 2170.00         | 48.56                | 71.75          |
|      | 16QAM  | Low    | 2120.00         | 48.48                | 70.52          |
|      |        | Middle | 2145.00         | 48.59                | 72.24          |
|      |        | High   | 2170.00         | 48.60                | 72.43          |
|      | 64QAM  | Low    | 2120.00         | 48.55                | 71.70          |
|      |        | Middle | 2145.00         | 48.56                | 71.83          |
|      |        | High   | 2170.00         | 48.49                | 70.65          |
|      | 256QAM | Low    | 2120.00         | 48.51                | 71.02          |
|      |        | Middle | 2145.00         | 48.58                | 72.18          |
|      |        | High   | 2170.00         | 48.56                | 71.80          |
| 1    | QPSK   | Low    | 2120.00         | 48.64                | 73.15          |
|      |        | Middle | 2145.00         | 48.65                | 73.30          |
|      |        | High   | 2170.00         | 48.68                | 73.77          |
|      | 16QAM  | Low    | 2120.00         | 48.69                | 73.91          |
|      |        | Middle | 2145.00         | 48.70                | 74.18          |
|      |        | High   | 2170.00         | 48.70                | 74.11          |
|      | 64QAM  | Low    | 2120.00         | 48.62                | 72.71          |
|      |        | Middle | 2145.00         | 48.61                | 72.66          |
|      |        | High   | 2170.00         | 48.63                | 72.93          |
|      | 256QAM | Low    | 2120.00         | 48.65                | 73.35          |
|      |        | Middle | 2145.00         | 48.60                | 72.44          |
|      |        | High   | 2170.00         | 48.67                | 73.69          |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2120.00         | 142.72                  | 144.43 | 144.41 | 144.38 |
| 2145.00         | 145.21                  | 146.43 | 144.49 | 144.62 |
| 2170.00         | 145.52                  | 146.54 | 143.58 | 145.49 |

## (4 Port) B66 LTE 5 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2112.50         | 43.10                | 20.44          |
|      |        | Middle | 2145.00         | 43.13                | 20.54          |
|      |        | High   | 2177.50         | 42.61                | 18.25          |
|      | 16QAM  | Low    | 2112.50         | 42.98                | 19.87          |
|      |        | Middle | 2145.00         | 43.26                | 21.20          |
|      |        | High   | 2177.50         | 42.56                | 18.03          |
|      | 64QAM  | Low    | 2112.50         | 43.06                | 20.21          |
|      |        | Middle | 2145.00         | 43.31                | 21.45          |
|      |        | High   | 2177.50         | 42.66                | 18.45          |
|      | 256QAM | Low    | 2112.50         | 43.05                | 20.19          |
|      |        | Middle | 2145.00         | 43.26                | 21.16          |
|      |        | High   | 2177.50         | 42.65                | 18.41          |
| 1    | QPSK   | Low    | 2112.50         | 42.72                | 18.69          |
|      |        | Middle | 2145.00         | 43.24                | 21.07          |
|      |        | High   | 2177.50         | 42.65                | 18.42          |
|      | 16QAM  | Low    | 2112.50         | 42.73                | 18.74          |
|      |        | Middle | 2145.00         | 43.19                | 20.82          |
|      |        | High   | 2177.50         | 42.62                | 18.27          |
|      | 64QAM  | Low    | 2112.50         | 42.80                | 19.06          |
|      |        | Middle | 2145.00         | 43.26                | 21.19          |
|      |        | High   | 2177.50         | 42.65                | 18.43          |
|      | 256QAM | Low    | 2112.50         | 42.73                | 18.74          |
|      |        | Middle | 2145.00         | 43.15                | 20.65          |
|      |        | High   | 2177.50         | 42.69                | 18.60          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2112.50         | 42.43                | 17.49          |
|      |        | Middle | 2145.00         | 43.07                | 20.28          |
|      |        | High   | 2177.50         | 42.66                | 18.43          |
|      | 16QAM  | Low    | 2112.50         | 42.43                | 17.51          |
|      |        | Middle | 2145.00         | 42.96                | 19.75          |
|      |        | High   | 2177.50         | 42.57                | 18.09          |
|      | 64QAM  | Low    | 2112.50         | 42.48                | 17.68          |
|      |        | Middle | 2145.00         | 43.15                | 20.66          |
|      |        | High   | 2177.50         | 42.57                | 18.07          |
|      | 256QAM | Low    | 2112.50         | 42.52                | 17.87          |
|      |        | Middle | 2145.00         | 43.13                | 20.56          |
|      |        | High   | 2177.50         | 42.57                | 18.08          |
| 3    | QPSK   | Low    | 2112.50         | 42.68                | 18.52          |
|      |        | Middle | 2145.00         | 43.17                | 20.77          |
|      |        | High   | 2177.50         | 42.62                | 18.27          |
|      | 16QAM  | Low    | 2112.50         | 42.65                | 18.41          |
|      |        | Middle | 2145.00         | 43.08                | 20.33          |
|      |        | High   | 2177.50         | 42.68                | 18.51          |
|      | 64QAM  | Low    | 2112.50         | 42.64                | 18.35          |
|      |        | Middle | 2145.00         | 43.17                | 20.77          |
|      |        | High   | 2177.50         | 42.60                | 18.18          |
|      | 256QAM | Low    | 2112.50         | 42.70                | 18.64          |
|      |        | Middle | 2145.00         | 43.28                | 21.26          |
|      |        | High   | 2177.50         | 42.49                | 17.75          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |       |       |        |
|-----------------|-------------------------|-------|-------|--------|
|                 | QPSK                    | 16QAM | 64QAM | 256QAM |
|                 | W                       |       |       |        |
| 2112.50         | 75.14                   | 74.53 | 75.31 | 75.45  |
| 2145.00         | 82.66                   | 82.10 | 84.07 | 83.62  |
| 2177.50         | 73.37                   | 72.91 | 73.13 | 72.84  |

## (4 Port) B66 LTE 10 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2115.00         | 45.87                | 38.61          |
|      |        | Middle | 2145.00         | 46.35                | 43.16          |
|      |        | High   | 2175.00         | 46.46                | 44.22          |
|      | 16QAM  | Low    | 2115.00         | 45.96                | 39.41          |
|      |        | Middle | 2145.00         | 46.35                | 43.18          |
|      |        | High   | 2175.00         | 46.47                | 44.35          |
|      | 64QAM  | Low    | 2115.00         | 45.96                | 39.40          |
|      |        | Middle | 2145.00         | 46.34                | 43.05          |
|      |        | High   | 2175.00         | 46.39                | 43.53          |
|      | 256QAM | Low    | 2115.00         | 45.92                | 39.10          |
|      |        | Middle | 2145.00         | 46.40                | 43.67          |
|      |        | High   | 2175.00         | 46.37                | 43.31          |
| 1    | QPSK   | Low    | 2115.00         | 45.83                | 38.30          |
|      |        | Middle | 2145.00         | 46.28                | 42.44          |
|      |        | High   | 2175.00         | 46.22                | 41.84          |
|      | 16QAM  | Low    | 2115.00         | 45.83                | 38.26          |
|      |        | Middle | 2145.00         | 46.24                | 42.10          |
|      |        | High   | 2175.00         | 46.25                | 42.22          |
|      | 64QAM  | Low    | 2115.00         | 45.74                | 37.51          |
|      |        | Middle | 2145.00         | 46.25                | 42.13          |
|      |        | High   | 2175.00         | 46.27                | 42.37          |
|      | 256QAM | Low    | 2115.00         | 45.79                | 37.93          |
|      |        | Middle | 2145.00         | 46.23                | 42.00          |
|      |        | High   | 2175.00         | 46.31                | 42.74          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2115.00         | 45.66                | 36.82          |
|      |        | Middle | 2145.00         | 46.28                | 42.43          |
|      |        | High   | 2175.00         | 46.14                | 41.08          |
|      | 16QAM  | Low    | 2115.00         | 45.74                | 37.53          |
|      |        | Middle | 2145.00         | 46.28                | 42.42          |
|      |        | High   | 2175.00         | 46.08                | 40.58          |
|      | 64QAM  | Low    | 2115.00         | 45.68                | 36.98          |
|      |        | Middle | 2145.00         | 46.21                | 41.79          |
|      |        | High   | 2175.00         | 46.15                | 41.16          |
|      | 256QAM | Low    | 2115.00         | 45.68                | 36.99          |
|      |        | Middle | 2145.00         | 46.27                | 42.32          |
|      |        | High   | 2175.00         | 46.04                | 40.14          |
| 3    | QPSK   | Low    | 2115.00         | 45.93                | 39.13          |
|      |        | Middle | 2145.00         | 46.47                | 44.40          |
|      |        | High   | 2175.00         | 46.35                | 43.14          |
|      | 16QAM  | Low    | 2115.00         | 45.98                | 39.62          |
|      |        | Middle | 2145.00         | 46.35                | 43.13          |
|      |        | High   | 2175.00         | 46.46                | 44.28          |
|      | 64QAM  | Low    | 2115.00         | 45.92                | 39.09          |
|      |        | Middle | 2145.00         | 46.42                | 43.88          |
|      |        | High   | 2175.00         | 46.42                | 43.84          |
|      | 256QAM | Low    | 2115.00         | 45.90                | 38.86          |
|      |        | Middle | 2145.00         | 46.38                | 43.44          |
|      |        | High   | 2175.00         | 46.44                | 44.05          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2115.00         | 152.86                  | 154.82 | 152.99 | 152.88 |
| 2145.00         | 172.44                  | 170.84 | 170.86 | 171.42 |
| 2175.00         | 170.28                  | 171.43 | 170.91 | 170.24 |

## (4 Port) B66 LTE 15 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2117.50         | 47.74                | 59.37          |
|      |        | Middle | 2145.00         | 48.21                | 66.19          |
|      |        | High   | 2172.50         | 47.28                | 53.48          |
|      | 16QAM  | Low    | 2117.50         | 47.73                | 59.27          |
|      |        | Middle | 2145.00         | 48.19                | 65.93          |
|      |        | High   | 2172.50         | 47.34                | 54.18          |
|      | 64QAM  | Low    | 2117.50         | 47.80                | 60.26          |
|      |        | Middle | 2145.00         | 48.20                | 66.08          |
|      |        | High   | 2172.50         | 47.28                | 53.41          |
|      | 256QAM | Low    | 2117.50         | 47.82                | 60.52          |
|      |        | Middle | 2145.00         | 48.23                | 66.48          |
|      |        | High   | 2172.50         | 47.28                | 53.41          |
| 1    | QPSK   | Low    | 2117.50         | 47.70                | 58.90          |
|      |        | Middle | 2145.00         | 48.00                | 63.07          |
|      |        | High   | 2172.50         | 47.43                | 55.34          |
|      | 16QAM  | Low    | 2117.50         | 47.70                | 58.87          |
|      |        | Middle | 2145.00         | 47.94                | 62.20          |
|      |        | High   | 2172.50         | 47.40                | 54.95          |
|      | 64QAM  | Low    | 2117.50         | 47.65                | 58.20          |
|      |        | Middle | 2145.00         | 47.96                | 62.56          |
|      |        | High   | 2172.50         | 47.37                | 54.63          |
|      | 256QAM | Low    | 2117.50         | 47.63                | 57.89          |
|      |        | Middle | 2145.00         | 47.93                | 62.14          |
|      |        | High   | 2172.50         | 47.39                | 54.82          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2117.50         | 47.62                | 57.85          |
|      |        | Middle | 2145.00         | 48.00                | 63.04          |
|      |        | High   | 2172.50         | 47.42                | 55.20          |
|      | 16QAM  | Low    | 2117.50         | 47.64                | 58.12          |
|      |        | Middle | 2145.00         | 47.95                | 62.45          |
|      |        | High   | 2172.50         | 47.44                | 55.53          |
|      | 64QAM  | Low    | 2117.50         | 47.62                | 57.88          |
|      |        | Middle | 2145.00         | 48.00                | 63.07          |
|      |        | High   | 2172.50         | 47.43                | 55.36          |
|      | 256QAM | Low    | 2117.50         | 47.70                | 58.83          |
|      |        | Middle | 2145.00         | 48.00                | 63.14          |
|      |        | High   | 2172.50         | 47.41                | 55.13          |
| 3    | QPSK   | Low    | 2117.50         | 47.94                | 62.27          |
|      |        | Middle | 2145.00         | 48.22                | 66.31          |
|      |        | High   | 2172.50         | 47.43                | 55.30          |
|      | 16QAM  | Low    | 2117.50         | 47.96                | 62.49          |
|      |        | Middle | 2145.00         | 48.20                | 66.10          |
|      |        | High   | 2172.50         | 47.45                | 55.59          |
|      | 64QAM  | Low    | 2117.50         | 47.87                | 61.21          |
|      |        | Middle | 2145.00         | 48.17                | 65.67          |
|      |        | High   | 2172.50         | 47.40                | 54.93          |
|      | 256QAM | Low    | 2117.50         | 47.93                | 62.06          |
|      |        | Middle | 2145.00         | 48.25                | 66.79          |
|      |        | High   | 2172.50         | 47.36                | 54.50          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2117.50         | 238.40                  | 238.74 | 237.54 | 239.30 |
| 2145.00         | 258.61                  | 256.68 | 257.39 | 258.55 |
| 2172.50         | 219.31                  | 220.25 | 218.32 | 217.85 |

## (4 Port) B66 LTE 20 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2120.00         | 47.43                | 55.32          |
|      |        | Middle | 2145.00         | 47.61                | 57.68          |
|      |        | High   | 2170.00         | 47.69                | 58.80          |
|      | 16QAM  | Low    | 2120.00         | 47.43                | 55.35          |
|      |        | Middle | 2145.00         | 47.78                | 59.95          |
|      |        | High   | 2170.00         | 47.80                | 60.20          |
|      | 64QAM  | Low    | 2120.00         | 47.49                | 56.17          |
|      |        | Middle | 2145.00         | 47.62                | 57.81          |
|      |        | High   | 2170.00         | 47.73                | 59.25          |
|      | 256QAM | Low    | 2120.00         | 47.50                | 56.21          |
|      |        | Middle | 2145.00         | 47.64                | 58.12          |
|      |        | High   | 2170.00         | 47.74                | 59.36          |
| 1    | QPSK   | Low    | 2120.00         | 47.41                | 55.02          |
|      |        | Middle | 2145.00         | 47.40                | 54.98          |
|      |        | High   | 2170.00         | 47.50                | 56.26          |
|      | 16QAM  | Low    | 2120.00         | 47.20                | 52.48          |
|      |        | Middle | 2145.00         | 47.41                | 55.12          |
|      |        | High   | 2170.00         | 47.59                | 57.45          |
|      | 64QAM  | Low    | 2120.00         | 47.36                | 54.48          |
|      |        | Middle | 2145.00         | 47.42                | 55.20          |
|      |        | High   | 2170.00         | 47.43                | 55.32          |
|      | 256QAM | Low    | 2120.00         | 47.30                | 53.72          |
|      |        | Middle | 2145.00         | 47.42                | 55.16          |
|      |        | High   | 2170.00         | 47.44                | 55.50          |



| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2120.00         | 47.65                | 58.22          |
|      |        | Middle | 2145.00         | 47.56                | 57.07          |
|      |        | High   | 2170.00         | 47.42                | 55.23          |
|      | 16QAM  | Low    | 2120.00         | 47.63                | 58.00          |
|      |        | Middle | 2145.00         | 47.57                | 57.13          |
|      |        | High   | 2170.00         | 47.50                | 56.20          |
|      | 64QAM  | Low    | 2120.00         | 47.60                | 57.48          |
|      |        | Middle | 2145.00         | 47.62                | 57.82          |
|      |        | High   | 2170.00         | 47.45                | 55.65          |
|      | 256QAM | Low    | 2120.00         | 47.58                | 57.29          |
|      |        | Middle | 2145.00         | 47.58                | 57.23          |
|      |        | High   | 2170.00         | 47.46                | 55.76          |
| 3    | QPSK   | Low    | 2120.00         | 47.57                | 57.11          |
|      |        | Middle | 2145.00         | 47.37                | 54.59          |
|      |        | High   | 2170.00         | 47.32                | 53.99          |
|      | 16QAM  | Low    | 2120.00         | 47.46                | 55.77          |
|      |        | Middle | 2145.00         | 47.38                | 54.68          |
|      |        | High   | 2170.00         | 47.35                | 54.34          |
|      | 64QAM  | Low    | 2120.00         | 47.59                | 57.40          |
|      |        | Middle | 2145.00         | 47.38                | 54.71          |
|      |        | High   | 2170.00         | 47.28                | 53.51          |
|      | 256QAM | Low    | 2120.00         | 47.58                | 57.28          |
|      |        | Middle | 2145.00         | 47.38                | 54.68          |
|      |        | High   | 2170.00         | 47.32                | 53.93          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2120.00         | 225.67                  | 221.59 | 225.52 | 224.50 |
| 2145.00         | 224.31                  | 226.88 | 225.54 | 225.18 |
| 2170.00         | 224.28                  | 228.18 | 223.73 | 224.55 |

# Tabular Data of RF Contiguous output power

## (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1935.00         | 46.83                | 48.19          |
|      |        | Middle | 1960.00         | 47.25                | 53.09          |
|      |        | High   | 1985.00         | 47.31                | 53.83          |
|      | 16QAM  | Low    | 1935.00         | 46.79                | 47.75          |
|      |        | Middle | 1960.00         | 47.20                | 52.48          |
|      |        | High   | 1985.00         | 47.38                | 54.70          |
|      | 64QAM  | Low    | 1935.00         | 46.82                | 48.08          |
|      |        | Middle | 1960.00         | 47.22                | 52.72          |
|      |        | High   | 1985.00         | 47.29                | 53.58          |
|      | 256QAM | Low    | 1935.00         | 46.85                | 48.42          |
|      |        | Middle | 1960.00         | 47.18                | 52.24          |
|      |        | High   | 1985.00         | 47.35                | 54.33          |
| 1    | QPSK   | Low    | 1935.00         | 46.86                | 48.53          |
|      |        | Middle | 1960.00         | 47.50                | 56.23          |
|      |        | High   | 1985.00         | 47.61                | 57.68          |
|      | 16QAM  | Low    | 1935.00         | 46.87                | 48.64          |
|      |        | Middle | 1960.00         | 47.51                | 56.36          |
|      |        | High   | 1985.00         | 47.68                | 58.61          |
|      | 64QAM  | Low    | 1935.00         | 46.90                | 48.98          |
|      |        | Middle | 1960.00         | 47.50                | 56.23          |
|      |        | High   | 1985.00         | 47.70                | 58.88          |
|      | 256QAM | Low    | 1935.00         | 46.92                | 49.20          |
|      |        | Middle | 1960.00         | 47.48                | 55.98          |
|      |        | High   | 1985.00         | 47.69                | 58.75          |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1935.00         | 96.73                   | 96.40  | 97.06  | 97.62  |
| 1960.00         | 109.32                  | 108.85 | 108.96 | 108.22 |
| 1985.00         | 111.51                  | 113.32 | 112.47 | 113.08 |

**(2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1942.50         | 46.81                | 47.92          |
|      |        | Middle | 1960.00         | 47.23                | 52.78          |
|      |        | High   | 1977.50         | 47.44                | 55.48          |
|      | 16QAM  | Low    | 1942.50         | 46.88                | 48.81          |
|      |        | Middle | 1960.00         | 47.28                | 53.41          |
|      |        | High   | 1977.50         | 47.40                | 54.98          |
|      | 64QAM  | Low    | 1942.50         | 46.82                | 48.05          |
|      |        | Middle | 1960.00         | 47.29                | 53.59          |
|      |        | High   | 1977.50         | 47.38                | 54.76          |
|      | 256QAM | Low    | 1942.50         | 46.84                | 48.35          |
|      |        | Middle | 1960.00         | 47.26                | 53.25          |
|      |        | High   | 1977.50         | 47.41                | 55.14          |
| 1    | QPSK   | Low    | 1942.50         | 46.85                | 48.42          |
|      |        | Middle | 1960.00         | 47.21                | 52.55          |
|      |        | High   | 1977.50         | 47.49                | 56.04          |
|      | 16QAM  | Low    | 1942.50         | 46.83                | 48.14          |
|      |        | Middle | 1960.00         | 47.16                | 52.04          |
|      |        | High   | 1977.50         | 47.44                | 55.45          |
|      | 64QAM  | Low    | 1942.50         | 46.82                | 48.13          |
|      |        | Middle | 1960.00         | 47.21                | 52.58          |
|      |        | High   | 1977.50         | 47.43                | 55.30          |
|      | 256QAM | Low    | 1942.50         | 46.86                | 48.51          |
|      |        | Middle | 1960.00         | 47.16                | 52.01          |
|      |        | High   | 1977.50         | 47.48                | 55.99          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1942.50         | 96.34                   | 96.95  | 96.18  | 96.86  |
| 1960.00         | 105.34                  | 105.44 | 106.17 | 105.26 |
| 1977.50         | 111.52                  | 110.43 | 110.06 | 111.13 |

**(2 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1945.00         | 46.93                | 49.35          |
|      |        | Middle | 1960.00         | 47.32                | 53.98          |
|      |        | High   | 1975.00         | 47.42                | 55.22          |
|      | 16QAM  | Low    | 1945.00         | 46.99                | 49.99          |
|      |        | Middle | 1960.00         | 47.32                | 53.96          |
|      |        | High   | 1975.00         | 47.41                | 55.07          |
|      | 64QAM  | Low    | 1945.00         | 46.93                | 49.33          |
|      |        | Middle | 1960.00         | 47.31                | 53.81          |
|      |        | High   | 1975.00         | 47.41                | 55.03          |
|      | 256QAM | Low    | 1945.00         | 46.95                | 49.51          |
|      |        | Middle | 1960.00         | 47.31                | 53.86          |
|      |        | High   | 1975.00         | 47.41                | 55.08          |
| 1    | QPSK   | Low    | 1945.00         | 46.93                | 49.33          |
|      |        | Middle | 1960.00         | 47.29                | 53.62          |
|      |        | High   | 1975.00         | 47.44                | 55.44          |
|      | 16QAM  | Low    | 1945.00         | 46.93                | 49.27          |
|      |        | Middle | 1960.00         | 47.22                | 52.69          |
|      |        | High   | 1975.00         | 47.46                | 55.69          |
|      | 64QAM  | Low    | 1945.00         | 46.96                | 49.67          |
|      |        | Middle | 1960.00         | 47.28                | 53.51          |
|      |        | High   | 1975.00         | 47.47                | 55.81          |
|      | 256QAM | Low    | 1945.00         | 46.94                | 49.39          |
|      |        | Middle | 1960.00         | 47.26                | 53.16          |
|      |        | High   | 1975.00         | 47.49                | 56.13          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1945.00         | 98.68                   | 99.27  | 99.00  | 98.90  |
| 1960.00         | 107.59                  | 106.65 | 107.32 | 107.03 |
| 1975.00         | 110.66                  | 110.76 | 110.84 | 111.21 |

## (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1935.00         | 45.14                | 32.68          |
|      |        | Middle | 1960.00         | 45.58                | 36.17          |
|      |        | High   | 1985.00         | 45.62                | 36.48          |
|      | 16QAM  | Low    | 1935.00         | 45.13                | 32.58          |
|      |        | Middle | 1960.00         | 45.60                | 36.33          |
|      |        | High   | 1985.00         | 45.74                | 37.48          |
|      | 64QAM  | Low    | 1935.00         | 45.18                | 32.95          |
|      |        | Middle | 1960.00         | 45.57                | 36.06          |
|      |        | High   | 1985.00         | 45.69                | 37.08          |
|      | 256QAM | Low    | 1935.00         | 45.23                | 33.37          |
|      |        | Middle | 1960.00         | 45.59                | 36.22          |
|      |        | High   | 1985.00         | 45.69                | 37.06          |
| 1    | QPSK   | Low    | 1935.00         | 45.38                | 34.48          |
|      |        | Middle | 1960.00         | 45.93                | 39.17          |
|      |        | High   | 1985.00         | 46.15                | 41.22          |
|      | 16QAM  | Low    | 1935.00         | 45.29                | 33.82          |
|      |        | Middle | 1960.00         | 45.94                | 39.26          |
|      |        | High   | 1985.00         | 46.18                | 41.53          |
|      | 64QAM  | Low    | 1935.00         | 45.32                | 34.01          |
|      |        | Middle | 1960.00         | 46.00                | 39.81          |
|      |        | High   | 1985.00         | 46.19                | 41.64          |
|      | 256QAM | Low    | 1935.00         | 45.30                | 33.88          |
|      |        | Middle | 1960.00         | 45.94                | 39.31          |
|      |        | High   | 1985.00         | 46.09                | 40.67          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 1935.00         | 45.21                | 33.19          |
|      |        | Middle | 1960.00         | 45.72                | 37.29          |
|      |        | High   | 1985.00         | 45.82                | 38.24          |
|      | 16QAM  | Low    | 1935.00         | 45.16                | 32.79          |
|      |        | Middle | 1960.00         | 45.74                | 37.52          |
|      |        | High   | 1985.00         | 45.77                | 37.77          |
|      | 64QAM  | Low    | 1935.00         | 45.22                | 33.23          |
|      |        | Middle | 1960.00         | 45.71                | 37.26          |
|      |        | High   | 1985.00         | 45.88                | 38.73          |
|      | 256QAM | Low    | 1935.00         | 45.22                | 33.29          |
|      |        | Middle | 1960.00         | 45.73                | 37.37          |
|      |        | High   | 1985.00         | 45.86                | 38.50          |
| 3    | QPSK   | Low    | 1935.00         | 45.21                | 33.21          |
|      |        | Middle | 1960.00         | 45.65                | 36.72          |
|      |        | High   | 1985.00         | 45.73                | 37.44          |
|      | 16QAM  | Low    | 1935.00         | 45.17                | 32.92          |
|      |        | Middle | 1960.00         | 45.65                | 36.75          |
|      |        | High   | 1985.00         | 45.63                | 36.53          |
|      | 64QAM  | Low    | 1935.00         | 45.18                | 32.93          |
|      |        | Middle | 1960.00         | 45.65                | 36.76          |
|      |        | High   | 1985.00         | 45.64                | 36.66          |
|      | 256QAM | Low    | 1935.00         | 45.23                | 33.38          |
|      |        | Middle | 1960.00         | 45.63                | 36.58          |
|      |        | High   | 1985.00         | 45.66                | 36.78          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1935.00         | 133.57                  | 132.12 | 133.11 | 133.91 |
| 1960.00         | 149.35                  | 149.87 | 149.89 | 149.48 |
| 1985.00         | 153.38                  | 153.31 | 154.10 | 153.01 |

**(4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1942.50         | 45.09                | 32.31          |
|      |        | Middle | 1960.00         | 45.41                | 34.79          |
|      |        | High   | 1977.50         | 45.62                | 36.46          |
|      | 16QAM  | Low    | 1942.50         | 45.10                | 32.37          |
|      |        | Middle | 1960.00         | 45.41                | 34.78          |
|      |        | High   | 1977.50         | 45.49                | 35.42          |
|      | 64QAM  | Low    | 1942.50         | 45.07                | 32.17          |
|      |        | Middle | 1960.00         | 45.45                | 35.04          |
|      |        | High   | 1977.50         | 45.65                | 36.69          |
|      | 256QAM | Low    | 1942.50         | 45.05                | 32.02          |
|      |        | Middle | 1960.00         | 45.39                | 34.63          |
|      |        | High   | 1977.50         | 45.66                | 36.77          |
| 1    | QPSK   | Low    | 1942.50         | 45.39                | 34.56          |
|      |        | Middle | 1960.00         | 45.82                | 38.19          |
|      |        | High   | 1977.50         | 46.04                | 40.21          |
|      | 16QAM  | Low    | 1942.50         | 45.33                | 34.14          |
|      |        | Middle | 1960.00         | 45.81                | 38.12          |
|      |        | High   | 1977.50         | 46.05                | 40.23          |
|      | 64QAM  | Low    | 1942.50         | 45.41                | 34.73          |
|      |        | Middle | 1960.00         | 45.83                | 38.31          |
|      |        | High   | 1977.50         | 46.00                | 39.84          |
|      | 256QAM | Low    | 1942.50         | 45.36                | 34.37          |
|      |        | Middle | 1960.00         | 45.80                | 38.00          |
|      |        | High   | 1977.50         | 46.06                | 40.34          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 1942.50         | 45.19                | 33.05          |
|      |        | Middle | 1960.00         | 45.67                | 36.86          |
|      |        | High   | 1977.50         | 45.78                | 37.86          |
|      | 16QAM  | Low    | 1942.50         | 45.13                | 32.58          |
|      |        | Middle | 1960.00         | 45.62                | 36.45          |
|      |        | High   | 1977.50         | 45.74                | 37.53          |
|      | 64QAM  | Low    | 1942.50         | 45.18                | 32.94          |
|      |        | Middle | 1960.00         | 45.61                | 36.40          |
|      |        | High   | 1977.50         | 45.78                | 37.88          |
|      | 256QAM | Low    | 1942.50         | 45.14                | 32.64          |
|      |        | Middle | 1960.00         | 45.56                | 35.97          |
|      |        | High   | 1977.50         | 45.78                | 37.89          |
| 3    | QPSK   | Low    | 1942.50         | 45.11                | 32.41          |
|      |        | Middle | 1960.00         | 45.53                | 35.70          |
|      |        | High   | 1977.50         | 45.78                | 37.81          |
|      | 16QAM  | Low    | 1942.50         | 45.09                | 32.32          |
|      |        | Middle | 1960.00         | 45.62                | 36.52          |
|      |        | High   | 1977.50         | 45.74                | 37.47          |
|      | 64QAM  | Low    | 1942.50         | 45.10                | 32.34          |
|      |        | Middle | 1960.00         | 45.51                | 35.60          |
|      |        | High   | 1977.50         | 45.73                | 37.45          |
|      | 256QAM | Low    | 1942.50         | 45.09                | 32.28          |
|      |        | Middle | 1960.00         | 45.51                | 35.59          |
|      |        | High   | 1977.50         | 45.79                | 37.94          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1942.50         | 132.34                  | 131.41 | 132.18 | 131.32 |
| 1960.00         | 145.55                  | 145.86 | 145.35 | 144.18 |
| 1977.50         | 152.34                  | 150.66 | 151.86 | 152.94 |



**(4 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1945.00         | 45.11                | 32.43          |
|      |        | Middle | 1960.00         | 45.43                | 34.93          |
|      |        | High   | 1975.00         | 45.62                | 36.51          |
|      | 16QAM  | Low    | 1945.00         | 45.14                | 32.67          |
|      |        | Middle | 1960.00         | 45.54                | 35.82          |
|      |        | High   | 1975.00         | 45.47                | 35.21          |
|      | 64QAM  | Low    | 1945.00         | 45.09                | 32.30          |
|      |        | Middle | 1960.00         | 45.45                | 35.08          |
|      |        | High   | 1975.00         | 45.63                | 36.52          |
|      | 256QAM | Low    | 1945.00         | 45.12                | 32.55          |
|      |        | Middle | 1960.00         | 45.45                | 35.10          |
|      |        | High   | 1975.00         | 45.71                | 37.20          |
| 1    | QPSK   | Low    | 1945.00         | 45.55                | 35.88          |
|      |        | Middle | 1960.00         | 45.88                | 38.76          |
|      |        | High   | 1975.00         | 46.04                | 40.16          |
|      | 16QAM  | Low    | 1945.00         | 45.40                | 34.67          |
|      |        | Middle | 1960.00         | 45.81                | 38.06          |
|      |        | High   | 1975.00         | 46.06                | 40.38          |
|      | 64QAM  | Low    | 1945.00         | 45.48                | 35.30          |
|      |        | Middle | 1960.00         | 45.83                | 38.28          |
|      |        | High   | 1975.00         | 46.01                | 39.94          |
|      | 256QAM | Low    | 1945.00         | 45.48                | 35.34          |
|      |        | Middle | 1960.00         | 45.86                | 38.55          |
|      |        | High   | 1975.00         | 46.01                | 39.90          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 1945.00         | 45.24                | 33.43          |
|      |        | Middle | 1960.00         | 45.66                | 36.83          |
|      |        | High   | 1975.00         | 45.80                | 38.00          |
|      | 16QAM  | Low    | 1945.00         | 45.24                | 33.39          |
|      |        | Middle | 1960.00         | 45.59                | 36.24          |
|      |        | High   | 1975.00         | 45.81                | 38.09          |
|      | 64QAM  | Low    | 1945.00         | 45.28                | 33.70          |
|      |        | Middle | 1960.00         | 45.63                | 36.54          |
|      |        | High   | 1975.00         | 45.74                | 37.51          |
|      | 256QAM | Low    | 1945.00         | 45.28                | 33.75          |
|      |        | Middle | 1960.00         | 45.67                | 36.86          |
|      |        | High   | 1975.00         | 45.78                | 37.87          |
| 3    | QPSK   | Low    | 1945.00         | 45.26                | 33.57          |
|      |        | Middle | 1960.00         | 45.69                | 37.06          |
|      |        | High   | 1975.00         | 45.81                | 38.12          |
|      | 16QAM  | Low    | 1945.00         | 45.29                | 33.81          |
|      |        | Middle | 1960.00         | 45.75                | 37.61          |
|      |        | High   | 1975.00         | 45.92                | 39.08          |
|      | 64QAM  | Low    | 1945.00         | 45.26                | 33.55          |
|      |        | Middle | 1960.00         | 45.80                | 38.01          |
|      |        | High   | 1975.00         | 45.75                | 37.62          |
|      | 256QAM | Low    | 1945.00         | 45.24                | 33.39          |
|      |        | Middle | 1960.00         | 45.73                | 37.38          |
|      |        | High   | 1975.00         | 45.89                | 38.83          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1945.00         | 135.30                  | 134.54 | 134.85 | 135.03 |
| 1960.00         | 147.58                  | 147.73 | 147.92 | 147.89 |
| 1975.00         | 152.80                  | 152.77 | 151.59 | 153.81 |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2115.00         | 49.03                | 79.89          |
|      |        | Middle | 2145.00         | 49.43                | 87.78          |
|      |        | High   | 2175.00         | 49.59                | 90.93          |
|      | 16QAM  | Low    | 2115.00         | 49.08                | 80.84          |
|      |        | Middle | 2145.00         | 49.40                | 87.06          |
|      |        | High   | 2175.00         | 49.61                | 91.50          |
|      | 64QAM  | Low    | 2115.00         | 49.07                | 80.63          |
|      |        | Middle | 2145.00         | 49.32                | 85.45          |
|      |        | High   | 2175.00         | 49.60                | 91.14          |
|      | 256QAM | Low    | 2115.00         | 49.09                | 81.13          |
|      |        | Middle | 2145.00         | 49.43                | 87.76          |
|      |        | High   | 2175.00         | 49.57                | 90.57          |
| 1    | QPSK   | Low    | 2115.00         | 48.87                | 77.14          |
|      |        | Middle | 2145.00         | 49.28                | 84.66          |
|      |        | High   | 2175.00         | 49.43                | 87.78          |
|      | 16QAM  | Low    | 2115.00         | 48.88                | 77.34          |
|      |        | Middle | 2145.00         | 49.20                | 83.27          |
|      |        | High   | 2175.00         | 49.46                | 88.31          |
|      | 64QAM  | Low    | 2115.00         | 48.77                | 75.39          |
|      |        | Middle | 2145.00         | 49.21                | 83.44          |
|      |        | High   | 2175.00         | 49.44                | 87.90          |
|      | 256QAM | Low    | 2115.00         | 48.73                | 74.70          |
|      |        | Middle | 2145.00         | 49.23                | 83.77          |
|      |        | High   | 2175.00         | 49.48                | 88.63          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2115.00         | 157.04                  | 158.18 | 156.02 | 155.83 |
| 2145.00         | 172.45                  | 170.33 | 168.89 | 171.53 |
| 2175.00         | 178.71                  | 179.81 | 179.04 | 179.21 |

**(2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2122.50         | 48.79                | 75.63          |
|      |        | Middle | 2145.00         | 49.16                | 82.39          |
|      |        | High   | 2167.50         | 49.44                | 87.98          |
|      | 16QAM  | Low    | 2122.50         | 48.92                | 77.89          |
|      |        | Middle | 2145.00         | 49.34                | 85.90          |
|      |        | High   | 2167.50         | 49.47                | 88.47          |
|      | 64QAM  | Low    | 2122.50         | 48.82                | 76.21          |
|      |        | Middle | 2145.00         | 49.20                | 83.08          |
|      |        | High   | 2167.50         | 49.46                | 88.29          |
|      | 256QAM | Low    | 2122.50         | 48.84                | 76.52          |
|      |        | Middle | 2145.00         | 49.25                | 84.14          |
|      |        | High   | 2167.50         | 49.45                | 88.04          |
| 1    | QPSK   | Low    | 2122.50         | 48.86                | 76.93          |
|      |        | Middle | 2145.00         | 49.18                | 82.85          |
|      |        | High   | 2167.50         | 49.33                | 85.78          |
|      | 16QAM  | Low    | 2122.50         | 48.83                | 76.38          |
|      |        | Middle | 2145.00         | 49.17                | 82.58          |
|      |        | High   | 2167.50         | 49.28                | 84.76          |
|      | 64QAM  | Low    | 2122.50         | 48.86                | 76.93          |
|      |        | Middle | 2145.00         | 49.15                | 82.30          |
|      |        | High   | 2167.50         | 49.32                | 85.41          |
|      | 256QAM | Low    | 2122.50         | 48.84                | 76.61          |
|      |        | Middle | 2145.00         | 49.18                | 82.79          |
|      |        | High   | 2167.50         | 49.25                | 84.06          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2122.50         | 152.56                  | 154.28 | 153.14 | 153.14 |
| 2145.00         | 165.25                  | 168.49 | 165.38 | 166.94 |
| 2167.50         | 173.77                  | 173.23 | 173.70 | 172.11 |

## (2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2130.00         | 48.42                | 69.44          |
|      |        | Middle | 2145.00         | 48.54                | 71.43          |
|      |        | High   | 2160.00         | 48.53                | 71.24          |
|      | 16QAM  | Low    | 2130.00         | 48.55                | 71.68          |
|      |        | Middle | 2145.00         | 48.62                | 72.83          |
|      |        | High   | 2160.00         | 48.51                | 71.02          |
|      | 64QAM  | Low    | 2130.00         | 48.54                | 71.40          |
|      |        | Middle | 2145.00         | 48.55                | 71.56          |
|      |        | High   | 2160.00         | 48.53                | 71.30          |
|      | 256QAM | Low    | 2130.00         | 48.52                | 71.20          |
|      |        | Middle | 2145.00         | 48.55                | 71.61          |
|      |        | High   | 2160.00         | 48.53                | 71.29          |
| 1    | QPSK   | Low    | 2130.00         | 48.67                | 73.60          |
|      |        | Middle | 2145.00         | 48.63                | 72.93          |
|      |        | High   | 2160.00         | 48.60                | 72.51          |
|      | 16QAM  | Low    | 2130.00         | 48.69                | 74.03          |
|      |        | Middle | 2145.00         | 48.67                | 73.62          |
|      |        | High   | 2160.00         | 48.61                | 72.61          |
|      | 64QAM  | Low    | 2130.00         | 48.66                | 73.52          |
|      |        | Middle | 2145.00         | 48.61                | 72.61          |
|      |        | High   | 2160.00         | 48.58                | 72.14          |
|      | 256QAM | Low    | 2130.00         | 48.64                | 73.11          |
|      |        | Middle | 2145.00         | 48.63                | 72.98          |
|      |        | High   | 2160.00         | 48.59                | 72.29          |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2130.00         | 143.04                  | 145.71 | 144.92 | 144.32 |
| 2145.00         | 144.36                  | 146.45 | 144.18 | 144.60 |
| 2160.00         | 143.75                  | 143.64 | 143.45 | 143.58 |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2117.50         | 47.23                | 52.89          |
|      |        | Middle | 2145.00         | 47.22                | 52.66          |
|      |        | High   | 2172.50         | 47.21                | 52.54          |
|      | 16QAM  | Low    | 2117.50         | 47.35                | 54.31          |
|      |        | Middle | 2145.00         | 47.25                | 53.08          |
|      |        | High   | 2172.50         | 47.23                | 52.89          |
|      | 64QAM  | Low    | 2117.50         | 47.28                | 53.39          |
|      |        | Middle | 2145.00         | 47.21                | 52.54          |
|      |        | High   | 2172.50         | 47.19                | 52.40          |
|      | 256QAM | Low    | 2117.50         | 47.25                | 53.11          |
|      |        | Middle | 2145.00         | 47.24                | 53.00          |
|      |        | High   | 2172.50         | 47.18                | 52.28          |
| 1    | QPSK   | Low    | 2117.50         | 47.18                | 52.19          |
|      |        | Middle | 2145.00         | 47.34                | 54.16          |
|      |        | High   | 2172.50         | 47.32                | 53.96          |
|      | 16QAM  | Low    | 2117.50         | 47.19                | 52.35          |
|      |        | Middle | 2145.00         | 47.43                | 55.36          |
|      |        | High   | 2172.50         | 47.35                | 54.30          |
|      | 64QAM  | Low    | 2117.50         | 47.15                | 51.86          |
|      |        | Middle | 2145.00         | 47.33                | 54.01          |
|      |        | High   | 2172.50         | 47.33                | 54.11          |
|      | 256QAM | Low    | 2117.50         | 47.15                | 51.94          |
|      |        | Middle | 2145.00         | 47.32                | 53.90          |
|      |        | High   | 2172.50         | 47.29                | 53.54          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2117.50         | 47.20                | 52.44          |
|      |        | Middle | 2145.00         | 47.35                | 54.38          |
|      |        | High   | 2172.50         | 47.33                | 54.05          |
|      | 16QAM  | Low    | 2117.50         | 47.24                | 52.99          |
|      |        | Middle | 2145.00         | 47.54                | 56.69          |
|      |        | High   | 2172.50         | 47.31                | 53.88          |
|      | 64QAM  | Low    | 2117.50         | 47.21                | 52.60          |
|      |        | Middle | 2145.00         | 47.35                | 54.36          |
|      |        | High   | 2172.50         | 47.31                | 53.80          |
|      | 256QAM | Low    | 2117.50         | 47.20                | 52.46          |
|      |        | Middle | 2145.00         | 47.37                | 54.60          |
|      |        | High   | 2172.50         | 47.37                | 54.56          |
| 3    | QPSK   | Low    | 2117.50         | 46.96                | 49.65          |
|      |        | Middle | 2145.00         | 47.10                | 51.27          |
|      |        | High   | 2172.50         | 47.28                | 53.46          |
|      | 16QAM  | Low    | 2117.50         | 46.96                | 49.68          |
|      |        | Middle | 2145.00         | 47.37                | 54.53          |
|      |        | High   | 2172.50         | 47.23                | 52.88          |
|      | 64QAM  | Low    | 2117.50         | 46.89                | 48.84          |
|      |        | Middle | 2145.00         | 47.15                | 51.88          |
|      |        | High   | 2172.50         | 47.24                | 53.03          |
|      | 256QAM | Low    | 2117.50         | 46.90                | 48.94          |
|      |        | Middle | 2145.00         | 47.11                | 51.42          |
|      |        | High   | 2172.50         | 47.21                | 52.61          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2117.50         | 207.18                  | 209.33 | 206.70 | 206.45 |
| 2145.00         | 212.47                  | 219.65 | 212.80 | 212.92 |
| 2172.50         | 214.01                  | 213.95 | 213.34 | 213.00 |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2122.50         | 47.08                | 51.06          |
|      |        | Middle | 2145.00         | 47.16                | 51.99          |
|      |        | High   | 2167.50         | 47.24                | 53.00          |
|      | 16QAM  | Low    | 2122.50         | 47.12                | 51.50          |
|      |        | Middle | 2145.00         | 47.36                | 54.48          |
|      |        | High   | 2167.50         | 47.23                | 52.83          |
|      | 64QAM  | Low    | 2122.50         | 47.09                | 51.12          |
|      |        | Middle | 2145.00         | 47.25                | 53.11          |
|      |        | High   | 2167.50         | 47.27                | 53.36          |
|      | 256QAM | Low    | 2122.50         | 47.07                | 50.94          |
|      |        | Middle | 2145.00         | 47.26                | 53.27          |
|      |        | High   | 2167.50         | 47.21                | 52.59          |
| 1    | QPSK   | Low    | 2122.50         | 47.20                | 52.44          |
|      |        | Middle | 2145.00         | 47.37                | 54.59          |
|      |        | High   | 2167.50         | 47.37                | 54.60          |
|      | 16QAM  | Low    | 2122.50         | 47.13                | 51.68          |
|      |        | Middle | 2145.00         | 47.37                | 54.53          |
|      |        | High   | 2167.50         | 47.38                | 54.71          |
|      | 64QAM  | Low    | 2122.50         | 47.22                | 52.72          |
|      |        | Middle | 2145.00         | 47.40                | 54.95          |
|      |        | High   | 2167.50         | 47.39                | 54.82          |
|      | 256QAM | Low    | 2122.50         | 47.20                | 52.54          |
|      |        | Middle | 2145.00         | 47.40                | 54.97          |
|      |        | High   | 2167.50         | 47.39                | 54.79          |



| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2122.50         | 47.29                | 53.62          |
|      |        | Middle | 2145.00         | 47.60                | 57.60          |
|      |        | High   | 2167.50         | 47.44                | 55.40          |
|      | 16QAM  | Low    | 2122.50         | 47.33                | 54.01          |
|      |        | Middle | 2145.00         | 47.60                | 57.54          |
|      |        | High   | 2167.50         | 47.42                | 55.25          |
|      | 64QAM  | Low    | 2122.50         | 47.33                | 54.11          |
|      |        | Middle | 2145.00         | 47.65                | 58.25          |
|      |        | High   | 2167.50         | 47.43                | 55.39          |
|      | 256QAM | Low    | 2122.50         | 47.27                | 53.28          |
|      |        | Middle | 2145.00         | 47.62                | 57.82          |
|      |        | High   | 2167.50         | 47.51                | 56.40          |
| 3    | QPSK   | Low    | 2122.50         | 47.16                | 51.95          |
|      |        | Middle | 2145.00         | 47.47                | 55.82          |
|      |        | High   | 2167.50         | 47.37                | 54.55          |
|      | 16QAM  | Low    | 2122.50         | 47.16                | 51.95          |
|      |        | Middle | 2145.00         | 47.51                | 56.31          |
|      |        | High   | 2167.50         | 47.42                | 55.16          |
|      | 64QAM  | Low    | 2122.50         | 47.14                | 51.75          |
|      |        | Middle | 2145.00         | 47.54                | 56.81          |
|      |        | High   | 2167.50         | 47.49                | 56.09          |
|      | 256QAM | Low    | 2122.50         | 47.15                | 51.90          |
|      |        | Middle | 2145.00         | 47.56                | 57.08          |
|      |        | High   | 2167.50         | 47.46                | 55.71          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2122.50         | 209.08                  | 209.14 | 209.71 | 208.67 |
| 2145.00         | 219.99                  | 222.86 | 223.12 | 223.14 |
| 2167.50         | 217.55                  | 217.95 | 219.65 | 219.49 |

## (4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2130.00         | 47.37                | 54.58          |
|      |        | Middle | 2145.00         | 47.22                | 52.78          |
|      |        | High   | 2160.00         | 47.15                | 51.87          |
|      | 16QAM  | Low    | 2130.00         | 47.36                | 54.40          |
|      |        | Middle | 2145.00         | 47.27                | 53.38          |
|      |        | High   | 2160.00         | 47.24                | 53.00          |
|      | 64QAM  | Low    | 2130.00         | 47.39                | 54.80          |
|      |        | Middle | 2145.00         | 47.27                | 53.36          |
|      |        | High   | 2160.00         | 47.43                | 55.30          |
|      | 256QAM | Low    | 2130.00         | 47.35                | 54.38          |
|      |        | Middle | 2145.00         | 47.21                | 52.57          |
|      |        | High   | 2160.00         | 47.17                | 52.14          |
| 1    | QPSK   | Low    | 2130.00         | 47.35                | 54.38          |
|      |        | Middle | 2145.00         | 47.31                | 53.86          |
|      |        | High   | 2160.00         | 47.29                | 53.62          |
|      | 16QAM  | Low    | 2130.00         | 47.33                | 54.09          |
|      |        | Middle | 2145.00         | 47.29                | 53.59          |
|      |        | High   | 2160.00         | 47.34                | 54.24          |
|      | 64QAM  | Low    | 2130.00         | 47.34                | 54.18          |
|      |        | Middle | 2145.00         | 47.31                | 53.83          |
|      |        | High   | 2160.00         | 47.45                | 55.60          |
|      | 256QAM | Low    | 2130.00         | 47.33                | 54.08          |
|      |        | Middle | 2145.00         | 47.35                | 54.31          |
|      |        | High   | 2160.00         | 47.36                | 54.41          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2130.00         | 47.37                | 54.54          |
|      |        | Middle | 2145.00         | 47.40                | 54.92          |
|      |        | High   | 2160.00         | 47.36                | 54.41          |
|      | 16QAM  | Low    | 2130.00         | 47.40                | 55.00          |
|      |        | Middle | 2145.00         | 47.41                | 55.09          |
|      |        | High   | 2160.00         | 47.36                | 54.43          |
|      | 64QAM  | Low    | 2130.00         | 47.38                | 54.74          |
|      |        | Middle | 2145.00         | 47.43                | 55.31          |
|      |        | High   | 2160.00         | 47.41                | 55.09          |
|      | 256QAM | Low    | 2130.00         | 47.37                | 54.54          |
|      |        | Middle | 2145.00         | 47.42                | 55.21          |
|      |        | High   | 2160.00         | 47.44                | 55.50          |
| 3    | QPSK   | Low    | 2130.00         | 47.23                | 52.80          |
|      |        | Middle | 2145.00         | 47.31                | 53.79          |
|      |        | High   | 2160.00         | 47.30                | 53.72          |
|      | 16QAM  | Low    | 2130.00         | 47.26                | 53.26          |
|      |        | Middle | 2145.00         | 47.27                | 53.39          |
|      |        | High   | 2160.00         | 47.31                | 53.85          |
|      | 64QAM  | Low    | 2130.00         | 47.26                | 53.19          |
|      |        | Middle | 2145.00         | 47.33                | 54.04          |
|      |        | High   | 2160.00         | 47.29                | 53.59          |
|      | 256QAM | Low    | 2130.00         | 47.20                | 52.53          |
|      |        | Middle | 2145.00         | 47.31                | 53.83          |
|      |        | High   | 2160.00         | 47.35                | 54.39          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2130.00         | 216.28                  | 216.75 | 216.90 | 215.52 |
| 2145.00         | 215.35                  | 215.46 | 216.53 | 215.91 |
| 2160.00         | 213.61                  | 215.52 | 219.59 | 216.44 |

**(2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1937.50         | 46.88                | 48.72          |
|      |        | Middle | 1960.00         | 47.31                | 53.80          |
|      |        | High   | 1982.50         | 47.37                | 54.54          |
|      | 16QAM  | Low    | 1937.50         | 46.93                | 49.29          |
|      |        | Middle | 1960.00         | 47.29                | 53.59          |
|      |        | High   | 1982.50         | 47.40                | 54.90          |
|      | 64QAM  | Low    | 1937.50         | 46.89                | 48.89          |
|      |        | Middle | 1960.00         | 47.32                | 53.98          |
|      |        | High   | 1982.50         | 47.35                | 54.38          |
|      | 256QAM | Low    | 1937.50         | 46.92                | 49.16          |
|      |        | Middle | 1960.00         | 47.34                | 54.16          |
|      |        | High   | 1982.50         | 47.33                | 54.04          |
| 1    | QPSK   | Low    | 1937.50         | 46.89                | 48.90          |
|      |        | Middle | 1960.00         | 47.37                | 54.64          |
|      |        | High   | 1982.50         | 47.45                | 55.60          |
|      | 16QAM  | Low    | 1937.50         | 46.90                | 49.01          |
|      |        | Middle | 1960.00         | 47.37                | 54.56          |
|      |        | High   | 1982.50         | 47.53                | 56.58          |
|      | 64QAM  | Low    | 1937.50         | 46.89                | 48.92          |
|      |        | Middle | 1960.00         | 47.32                | 53.99          |
|      |        | High   | 1982.50         | 47.40                | 54.92          |
|      | 256QAM | Low    | 1937.50         | 46.91                | 49.08          |
|      |        | Middle | 1960.00         | 47.34                | 54.14          |
|      |        | High   | 1982.50         | 47.45                | 55.55          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1937.50         | 97.62                   | 98.31  | 97.81  | 98.24  |
| 1960.00         | 108.44                  | 108.16 | 107.97 | 108.30 |
| 1982.50         | 110.14                  | 111.49 | 109.29 | 109.59 |

**(2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [3 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1945.00         | 47.20                | 52.47          |
|      |        | Middle | 1960.00         | 47.20                | 52.46          |
|      |        | High   | 1975.00         | 47.37                | 54.59          |
|      | 16QAM  | Low    | 1945.00         | 47.21                | 52.55          |
|      |        | Middle | 1960.00         | 47.21                | 52.63          |
|      |        | High   | 1975.00         | 47.42                | 55.20          |
|      | 64QAM  | Low    | 1945.00         | 47.26                | 53.20          |
|      |        | Middle | 1960.00         | 47.21                | 52.63          |
|      |        | High   | 1975.00         | 47.40                | 54.93          |
|      | 256QAM | Low    | 1945.00         | 47.27                | 53.38          |
|      |        | Middle | 1960.00         | 47.23                | 52.83          |
|      |        | High   | 1975.00         | 47.46                | 55.71          |
| 1    | QPSK   | Low    | 1945.00         | 47.07                | 50.96          |
|      |        | Middle | 1960.00         | 47.27                | 53.38          |
|      |        | High   | 1975.00         | 47.45                | 55.64          |
|      | 16QAM  | Low    | 1945.00         | 47.07                | 50.91          |
|      |        | Middle | 1960.00         | 47.25                | 53.04          |
|      |        | High   | 1975.00         | 47.43                | 55.30          |
|      | 64QAM  | Low    | 1945.00         | 47.05                | 50.70          |
|      |        | Middle | 1960.00         | 47.28                | 53.47          |
|      |        | High   | 1975.00         | 47.47                | 55.86          |
|      | 256QAM | Low    | 1945.00         | 47.07                | 50.96          |
|      |        | Middle | 1960.00         | 47.28                | 53.43          |
|      |        | High   | 1975.00         | 47.45                | 55.55          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1945.00         | 103.43                  | 103.46 | 103.90 | 104.34 |
| 1960.00         | 105.84                  | 105.67 | 106.10 | 106.27 |
| 1975.00         | 110.23                  | 110.49 | 110.79 | 111.26 |

**(4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1937.50         | 45.27                | 33.68          |
|      |        | Middle | 1960.00         | 45.61                | 36.38          |
|      |        | High   | 1982.50         | 45.45                | 35.04          |
|      | 16QAM  | Low    | 1937.50         | 45.18                | 32.96          |
|      |        | Middle | 1960.00         | 45.54                | 35.80          |
|      |        | High   | 1982.50         | 45.67                | 36.92          |
|      | 64QAM  | Low    | 1937.50         | 45.20                | 33.11          |
|      |        | Middle | 1960.00         | 45.59                | 36.22          |
|      |        | High   | 1982.50         | 45.43                | 34.90          |
|      | 256QAM | Low    | 1937.50         | 45.23                | 33.35          |
|      |        | Middle | 1960.00         | 45.55                | 35.91          |
|      |        | High   | 1982.50         | 45.44                | 34.99          |
| 1    | QPSK   | Low    | 1937.50         | 45.38                | 34.52          |
|      |        | Middle | 1960.00         | 45.87                | 38.65          |
|      |        | High   | 1982.50         | 45.99                | 39.73          |
|      | 16QAM  | Low    | 1937.50         | 45.33                | 34.15          |
|      |        | Middle | 1960.00         | 45.90                | 38.93          |
|      |        | High   | 1982.50         | 46.02                | 40.03          |
|      | 64QAM  | Low    | 1937.50         | 45.40                | 34.64          |
|      |        | Middle | 1960.00         | 45.94                | 39.24          |
|      |        | High   | 1982.50         | 46.02                | 39.95          |
|      | 256QAM | Low    | 1937.50         | 45.37                | 34.46          |
|      |        | Middle | 1960.00         | 45.91                | 38.96          |
|      |        | High   | 1982.50         | 45.95                | 39.37          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 1937.50         | 45.33                | 34.12          |
|      |        | Middle | 1960.00         | 45.78                | 37.82          |
|      |        | High   | 1982.50         | 45.74                | 37.51          |
|      | 16QAM  | Low    | 1937.50         | 45.29                | 33.82          |
|      |        | Middle | 1960.00         | 45.59                | 36.23          |
|      |        | High   | 1982.50         | 45.73                | 37.45          |
|      | 64QAM  | Low    | 1937.50         | 45.30                | 33.89          |
|      |        | Middle | 1960.00         | 45.78                | 37.88          |
|      |        | High   | 1982.50         | 45.71                | 37.26          |
|      | 256QAM | Low    | 1937.50         | 45.25                | 33.52          |
|      |        | Middle | 1960.00         | 45.73                | 37.37          |
|      |        | High   | 1982.50         | 45.71                | 37.23          |
| 3    | QPSK   | Low    | 1937.50         | 45.76                | 37.67          |
|      |        | Middle | 1960.00         | 45.79                | 37.93          |
|      |        | High   | 1982.50         | 45.81                | 38.07          |
|      | 16QAM  | Low    | 1937.50         | 45.77                | 37.78          |
|      |        | Middle | 1960.00         | 45.52                | 35.64          |
|      |        | High   | 1982.50         | 45.73                | 37.43          |
|      | 64QAM  | Low    | 1937.50         | 45.81                | 38.12          |
|      |        | Middle | 1960.00         | 45.70                | 37.14          |
|      |        | High   | 1982.50         | 45.78                | 37.86          |
|      | 256QAM | Low    | 1937.50         | 45.79                | 37.95          |
|      |        | Middle | 1960.00         | 45.75                | 37.57          |
|      |        | High   | 1982.50         | 45.82                | 38.23          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1937.50         | 139.99                  | 138.72 | 139.77 | 139.28 |
| 1960.00         | 150.79                  | 146.60 | 150.48 | 149.80 |
| 1982.50         | 150.35                  | 151.83 | 149.97 | 149.82 |

**(4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [3 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 1945.00         | 45.15                | 32.70          |
|      |        | Middle | 1960.00         | 45.34                | 34.21          |
|      |        | High   | 1975.00         | 45.80                | 38.05          |
|      | 16QAM  | Low    | 1945.00         | 45.10                | 32.35          |
|      |        | Middle | 1960.00         | 45.53                | 35.74          |
|      |        | High   | 1975.00         | 45.82                | 38.23          |
|      | 64QAM  | Low    | 1945.00         | 45.14                | 32.67          |
|      |        | Middle | 1960.00         | 45.35                | 34.25          |
|      |        | High   | 1975.00         | 45.85                | 38.46          |
|      | 256QAM | Low    | 1945.00         | 45.13                | 32.61          |
|      |        | Middle | 1960.00         | 45.39                | 34.63          |
|      |        | High   | 1975.00         | 45.85                | 38.42          |
| 1    | QPSK   | Low    | 1945.00         | 45.39                | 34.57          |
|      |        | Middle | 1960.00         | 45.85                | 38.48          |
|      |        | High   | 1975.00         | 46.10                | 40.74          |
|      | 16QAM  | Low    | 1945.00         | 45.33                | 34.15          |
|      |        | Middle | 1960.00         | 45.84                | 38.37          |
|      |        | High   | 1975.00         | 46.12                | 40.94          |
|      | 64QAM  | Low    | 1945.00         | 45.31                | 33.97          |
|      |        | Middle | 1960.00         | 45.86                | 38.59          |
|      |        | High   | 1975.00         | 46.08                | 40.55          |
|      | 256QAM | Low    | 1945.00         | 45.37                | 34.47          |
|      |        | Middle | 1960.00         | 45.81                | 38.14          |
|      |        | High   | 1975.00         | 46.12                | 40.89          |



| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 1945.00         | 45.21                | 33.17          |
|      |        | Middle | 1960.00         | 45.57                | 36.07          |
|      |        | High   | 1975.00         | 45.91                | 38.97          |
|      | 16QAM  | Low    | 1945.00         | 45.16                | 32.84          |
|      |        | Middle | 1960.00         | 45.59                | 36.22          |
|      |        | High   | 1975.00         | 45.89                | 38.86          |
|      | 64QAM  | Low    | 1945.00         | 45.15                | 32.77          |
|      |        | Middle | 1960.00         | 45.55                | 35.87          |
|      |        | High   | 1975.00         | 45.89                | 38.82          |
|      | 256QAM | Low    | 1945.00         | 45.17                | 32.87          |
|      |        | Middle | 1960.00         | 45.52                | 35.69          |
|      |        | High   | 1975.00         | 45.85                | 38.45          |
| 3    | QPSK   | Low    | 1945.00         | 45.16                | 32.84          |
|      |        | Middle | 1960.00         | 45.66                | 36.79          |
|      |        | High   | 1975.00         | 45.94                | 39.27          |
|      | 16QAM  | Low    | 1945.00         | 45.15                | 32.75          |
|      |        | Middle | 1960.00         | 45.70                | 37.12          |
|      |        | High   | 1975.00         | 45.90                | 38.87          |
|      | 64QAM  | Low    | 1945.00         | 45.13                | 32.55          |
|      |        | Middle | 1960.00         | 45.65                | 36.76          |
|      |        | High   | 1975.00         | 45.85                | 38.49          |
|      | 256QAM | Low    | 1945.00         | 45.12                | 32.54          |
|      |        | Middle | 1960.00         | 45.69                | 37.03          |
|      |        | High   | 1975.00         | 45.88                | 38.76          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1945.00         | 133.28                  | 132.09 | 131.97 | 132.48 |
| 1960.00         | 145.54                  | 147.45 | 145.47 | 145.49 |
| 1975.00         | 157.02                  | 156.90 | 156.32 | 156.52 |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2117.50         | 48.80                | 75.81          |
|      |        | Middle | 2145.00         | 49.32                | 85.53          |
|      |        | High   | 2172.50         | 49.58                | 90.82          |
|      | 16QAM  | Low    | 2117.50         | 48.99                | 79.32          |
|      |        | Middle | 2145.00         | 49.36                | 86.40          |
|      |        | High   | 2172.50         | 49.58                | 90.72          |
|      | 64QAM  | Low    | 2117.50         | 48.90                | 77.68          |
|      |        | Middle | 2145.00         | 49.34                | 85.82          |
|      |        | High   | 2172.50         | 49.58                | 90.70          |
|      | 256QAM | Low    | 2117.50         | 48.91                | 77.79          |
|      |        | Middle | 2145.00         | 49.37                | 86.50          |
|      |        | High   | 2172.50         | 49.60                | 91.24          |
| 1    | QPSK   | Low    | 2117.50         | 48.85                | 76.67          |
|      |        | Middle | 2145.00         | 49.20                | 83.10          |
|      |        | High   | 2172.50         | 49.38                | 86.60          |
|      | 16QAM  | Low    | 2117.50         | 48.98                | 79.01          |
|      |        | Middle | 2145.00         | 49.20                | 83.21          |
|      |        | High   | 2172.50         | 49.38                | 86.76          |
|      | 64QAM  | Low    | 2117.50         | 48.88                | 77.30          |
|      |        | Middle | 2145.00         | 49.21                | 83.33          |
|      |        | High   | 2172.50         | 49.35                | 86.16          |
|      | 256QAM | Low    | 2117.50         | 48.85                | 76.70          |
|      |        | Middle | 2145.00         | 49.24                | 84.00          |
|      |        | High   | 2172.50         | 49.37                | 86.52          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2117.50         | 152.47                  | 158.34 | 154.98 | 154.49 |
| 2145.00         | 168.63                  | 169.61 | 169.15 | 170.50 |
| 2172.50         | 177.42                  | 177.48 | 176.86 | 177.76 |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [3 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2125.00         | 48.38                | 68.85          |
|      |        | Middle | 2145.00         | 48.47                | 70.39          |
|      |        | High   | 2165.00         | 48.46                | 70.19          |
|      | 16QAM  | Low    | 2125.00         | 48.27                | 67.08          |
|      |        | Middle | 2145.00         | 48.51                | 71.04          |
|      |        | High   | 2165.00         | 48.47                | 70.26          |
|      | 64QAM  | Low    | 2125.00         | 48.32                | 67.97          |
|      |        | Middle | 2145.00         | 48.51                | 71.01          |
|      |        | High   | 2165.00         | 48.47                | 70.23          |
|      | 256QAM | Low    | 2125.00         | 48.25                | 66.82          |
|      |        | Middle | 2145.00         | 48.56                | 71.85          |
|      |        | High   | 2165.00         | 48.45                | 70.03          |
| 1    | QPSK   | Low    | 2125.00         | 48.41                | 69.41          |
|      |        | Middle | 2145.00         | 48.65                | 73.28          |
|      |        | High   | 2165.00         | 48.64                | 73.16          |
|      | 16QAM  | Low    | 2125.00         | 48.38                | 68.90          |
|      |        | Middle | 2145.00         | 48.66                | 73.40          |
|      |        | High   | 2165.00         | 48.63                | 72.96          |
|      | 64QAM  | Low    | 2125.00         | 48.40                | 69.12          |
|      |        | Middle | 2145.00         | 48.61                | 72.61          |
|      |        | High   | 2165.00         | 48.69                | 73.91          |
|      | 256QAM | Low    | 2125.00         | 48.43                | 69.74          |
|      |        | Middle | 2145.00         | 48.69                | 73.89          |
|      |        | High   | 2165.00         | 48.62                | 72.69          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2125.00         | 138.26                  | 135.98 | 137.09 | 136.56 |
| 2145.00         | 143.67                  | 144.44 | 143.62 | 145.74 |
| 2165.00         | 143.36                  | 143.22 | 144.14 | 142.73 |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [3 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2130.00         | 48.43                | 69.63          |
|      |        | Middle | 2145.00         | 48.38                | 68.87          |
|      |        | High   | 2160.00         | 48.47                | 70.37          |
|      | 16QAM  | Low    | 2130.00         | 48.53                | 71.30          |
|      |        | Middle | 2145.00         | 48.44                | 69.79          |
|      |        | High   | 2160.00         | 48.48                | 70.40          |
|      | 64QAM  | Low    | 2130.00         | 48.51                | 70.99          |
|      |        | Middle | 2145.00         | 48.45                | 69.98          |
|      |        | High   | 2160.00         | 48.47                | 70.31          |
|      | 256QAM | Low    | 2130.00         | 48.50                | 70.79          |
|      |        | Middle | 2145.00         | 48.41                | 69.39          |
|      |        | High   | 2160.00         | 48.46                | 70.23          |
| 1    | QPSK   | Low    | 2130.00         | 48.54                | 71.37          |
|      |        | Middle | 2145.00         | 48.70                | 74.15          |
|      |        | High   | 2160.00         | 48.62                | 72.71          |
|      | 16QAM  | Low    | 2130.00         | 48.49                | 70.66          |
|      |        | Middle | 2145.00         | 48.73                | 74.58          |
|      |        | High   | 2160.00         | 48.61                | 72.58          |
|      | 64QAM  | Low    | 2130.00         | 48.49                | 70.66          |
|      |        | Middle | 2145.00         | 48.67                | 73.65          |
|      |        | High   | 2160.00         | 48.59                | 72.23          |
|      | 256QAM | Low    | 2130.00         | 48.47                | 70.29          |
|      |        | Middle | 2145.00         | 48.69                | 73.98          |
|      |        | High   | 2160.00         | 48.56                | 71.73          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2130.00         | 141.00                  | 141.97 | 141.66 | 141.09 |
| 2145.00         | 143.02                  | 144.37 | 143.64 | 143.37 |
| 2160.00         | 143.08                  | 142.98 | 142.54 | 141.96 |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2117.50         | 47.16                | 51.95          |
|      |        | Middle | 2145.00         | 47.31                | 53.80          |
|      |        | High   | 2172.50         | 47.30                | 53.77          |
|      | 16QAM  | Low    | 2117.50         | 47.34                | 54.16          |
|      |        | Middle | 2145.00         | 47.39                | 54.84          |
|      |        | High   | 2172.50         | 47.36                | 54.45          |
|      | 64QAM  | Low    | 2117.50         | 47.15                | 51.94          |
|      |        | Middle | 2145.00         | 47.35                | 54.30          |
|      |        | High   | 2172.50         | 47.36                | 54.48          |
|      | 256QAM | Low    | 2117.50         | 47.19                | 52.41          |
|      |        | Middle | 2145.00         | 47.38                | 54.65          |
|      |        | High   | 2172.50         | 47.37                | 54.51          |
| 1    | QPSK   | Low    | 2117.50         | 47.31                | 53.78          |
|      |        | Middle | 2145.00         | 47.45                | 55.58          |
|      |        | High   | 2172.50         | 47.46                | 55.72          |
|      | 16QAM  | Low    | 2117.50         | 47.35                | 54.35          |
|      |        | Middle | 2145.00         | 47.40                | 54.93          |
|      |        | High   | 2172.50         | 47.46                | 55.76          |
|      | 64QAM  | Low    | 2117.50         | 47.31                | 53.85          |
|      |        | Middle | 2145.00         | 47.46                | 55.69          |
|      |        | High   | 2172.50         | 47.48                | 55.95          |
|      | 256QAM | Low    | 2117.50         | 47.39                | 54.84          |
|      |        | Middle | 2145.00         | 47.42                | 55.26          |
|      |        | High   | 2172.50         | 47.43                | 55.32          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2117.50         | 47.44                | 55.44          |
|      |        | Middle | 2145.00         | 47.66                | 58.28          |
|      |        | High   | 2172.50         | 47.45                | 55.59          |
|      | 16QAM  | Low    | 2117.50         | 47.51                | 56.32          |
|      |        | Middle | 2145.00         | 47.67                | 58.47          |
|      |        | High   | 2172.50         | 47.49                | 56.12          |
|      | 64QAM  | Low    | 2117.50         | 47.42                | 55.25          |
|      |        | Middle | 2145.00         | 47.67                | 58.44          |
|      |        | High   | 2172.50         | 47.45                | 55.60          |
|      | 256QAM | Low    | 2117.50         | 47.48                | 55.98          |
|      |        | Middle | 2145.00         | 47.69                | 58.78          |
|      |        | High   | 2172.50         | 47.46                | 55.67          |
| 3    | QPSK   | Low    | 2117.50         | 47.45                | 55.62          |
|      |        | Middle | 2145.00         | 47.40                | 54.95          |
|      |        | High   | 2172.50         | 47.32                | 54.00          |
|      | 16QAM  | Low    | 2117.50         | 47.34                | 54.23          |
|      |        | Middle | 2145.00         | 47.48                | 55.99          |
|      |        | High   | 2172.50         | 47.33                | 54.11          |
|      | 64QAM  | Low    | 2117.50         | 47.39                | 54.83          |
|      |        | Middle | 2145.00         | 47.45                | 55.63          |
|      |        | High   | 2172.50         | 47.29                | 53.59          |
|      | 256QAM | Low    | 2117.50         | 47.37                | 54.53          |
|      |        | Middle | 2145.00         | 47.39                | 54.85          |
|      |        | High   | 2172.50         | 47.33                | 54.05          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2117.50         | 216.78                  | 219.06 | 215.87 | 217.75 |
| 2145.00         | 222.61                  | 224.22 | 224.06 | 223.54 |
| 2172.50         | 219.07                  | 220.44 | 219.62 | 219.55 |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [3 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2125.00         | 47.10                | 51.35          |
|      |        | Middle | 2145.00         | 47.34                | 54.20          |
|      |        | High   | 2165.00         | 47.32                | 53.91          |
|      | 16QAM  | Low    | 2125.00         | 47.18                | 52.23          |
|      |        | Middle | 2145.00         | 47.44                | 55.51          |
|      |        | High   | 2165.00         | 47.34                | 54.16          |
|      | 64QAM  | Low    | 2125.00         | 47.14                | 51.75          |
|      |        | Middle | 2145.00         | 47.40                | 54.93          |
|      |        | High   | 2165.00         | 47.35                | 54.29          |
|      | 256QAM | Low    | 2125.00         | 47.11                | 51.45          |
|      |        | Middle | 2145.00         | 47.42                | 55.23          |
|      |        | High   | 2165.00         | 47.34                | 54.25          |
| 1    | QPSK   | Low    | 2125.00         | 47.17                | 52.18          |
|      |        | Middle | 2145.00         | 47.48                | 55.94          |
|      |        | High   | 2165.00         | 47.46                | 55.69          |
|      | 16QAM  | Low    | 2125.00         | 47.21                | 52.65          |
|      |        | Middle | 2145.00         | 47.52                | 56.45          |
|      |        | High   | 2165.00         | 47.48                | 55.96          |
|      | 64QAM  | Low    | 2125.00         | 47.22                | 52.67          |
|      |        | Middle | 2145.00         | 47.52                | 56.49          |
|      |        | High   | 2165.00         | 47.50                | 56.26          |
|      | 256QAM | Low    | 2125.00         | 47.16                | 52.06          |
|      |        | Middle | 2145.00         | 47.50                | 56.23          |
|      |        | High   | 2165.00         | 47.46                | 55.74          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2125.00         | 47.36                | 54.40          |
|      |        | Middle | 2145.00         | 47.63                | 57.94          |
|      |        | High   | 2165.00         | 47.56                | 56.98          |
|      | 16QAM  | Low    | 2125.00         | 47.38                | 54.70          |
|      |        | Middle | 2145.00         | 47.66                | 58.32          |
|      |        | High   | 2165.00         | 47.57                | 57.12          |
|      | 64QAM  | Low    | 2125.00         | 47.33                | 54.14          |
|      |        | Middle | 2145.00         | 47.68                | 58.61          |
|      |        | High   | 2165.00         | 47.54                | 56.74          |
|      | 256QAM | Low    | 2125.00         | 47.33                | 54.08          |
|      |        | Middle | 2145.00         | 47.65                | 58.14          |
|      |        | High   | 2165.00         | 47.54                | 56.82          |
| 3    | QPSK   | Low    | 2125.00         | 47.24                | 52.91          |
|      |        | Middle | 2145.00         | 47.55                | 56.87          |
|      |        | High   | 2165.00         | 47.51                | 56.36          |
|      | 16QAM  | Low    | 2125.00         | 47.22                | 52.78          |
|      |        | Middle | 2145.00         | 47.60                | 57.53          |
|      |        | High   | 2165.00         | 47.48                | 55.96          |
|      | 64QAM  | Low    | 2125.00         | 47.18                | 52.22          |
|      |        | Middle | 2145.00         | 47.55                | 56.94          |
|      |        | High   | 2165.00         | 47.48                | 56.04          |
|      | 256QAM | Low    | 2125.00         | 47.16                | 51.98          |
|      |        | Middle | 2145.00         | 47.56                | 57.02          |
|      |        | High   | 2165.00         | 47.46                | 55.69          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2125.00         | 210.83                  | 212.36 | 210.78 | 209.56 |
| 2145.00         | 224.95                  | 227.82 | 226.97 | 226.63 |
| 2165.00         | 222.95                  | 223.21 | 223.33 | 222.51 |



**(4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 15 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2130.00         | 47.23                | 52.89          |
|      |        | Middle | 2145.00         | 47.25                | 53.11          |
|      |        | High   | 2160.00         | 47.26                | 53.17          |
|      | 16QAM  | Low    | 2130.00         | 47.26                | 53.19          |
|      |        | Middle | 2145.00         | 47.25                | 53.06          |
|      |        | High   | 2160.00         | 47.30                | 53.67          |
|      | 64QAM  | Low    | 2130.00         | 47.30                | 53.64          |
|      |        | Middle | 2145.00         | 47.24                | 52.92          |
|      |        | High   | 2160.00         | 47.24                | 53.02          |
|      | 256QAM | Low    | 2130.00         | 47.28                | 53.43          |
|      |        | Middle | 2145.00         | 47.26                | 53.20          |
|      |        | High   | 2160.00         | 47.28                | 53.41          |
| 1    | QPSK   | Low    | 2130.00         | 47.25                | 53.04          |
|      |        | Middle | 2145.00         | 47.43                | 55.30          |
|      |        | High   | 2160.00         | 47.36                | 54.43          |
|      | 16QAM  | Low    | 2130.00         | 47.30                | 53.69          |
|      |        | Middle | 2145.00         | 47.48                | 56.00          |
|      |        | High   | 2160.00         | 47.33                | 54.04          |
|      | 64QAM  | Low    | 2130.00         | 47.25                | 53.10          |
|      |        | Middle | 2145.00         | 47.42                | 55.20          |
|      |        | High   | 2160.00         | 47.31                | 53.81          |
|      | 256QAM | Low    | 2130.00         | 47.24                | 53.02          |
|      |        | Middle | 2145.00         | 47.42                | 55.14          |
|      |        | High   | 2160.00         | 47.31                | 53.81          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2130.00         | 47.52                | 56.52          |
|      |        | Middle | 2145.00         | 47.52                | 56.45          |
|      |        | High   | 2160.00         | 47.49                | 56.16          |
|      | 16QAM  | Low    | 2130.00         | 47.56                | 56.98          |
|      |        | Middle | 2145.00         | 47.54                | 56.78          |
|      |        | High   | 2160.00         | 47.54                | 56.81          |
|      | 64QAM  | Low    | 2130.00         | 47.53                | 56.57          |
|      |        | Middle | 2145.00         | 47.52                | 56.51          |
|      |        | High   | 2160.00         | 47.57                | 57.08          |
|      | 256QAM | Low    | 2130.00         | 47.54                | 56.79          |
|      |        | Middle | 2145.00         | 47.54                | 56.70          |
|      |        | High   | 2160.00         | 47.53                | 56.64          |
| 3    | QPSK   | Low    | 2130.00         | 47.33                | 54.08          |
|      |        | Middle | 2145.00         | 47.51                | 56.42          |
|      |        | High   | 2160.00         | 47.45                | 55.59          |
|      | 16QAM  | Low    | 2130.00         | 47.32                | 53.94          |
|      |        | Middle | 2145.00         | 47.52                | 56.55          |
|      |        | High   | 2160.00         | 47.45                | 55.63          |
|      | 64QAM  | Low    | 2130.00         | 47.31                | 53.78          |
|      |        | Middle | 2145.00         | 47.49                | 56.14          |
|      |        | High   | 2160.00         | 47.51                | 56.32          |
|      | 256QAM | Low    | 2130.00         | 47.38                | 54.65          |
|      |        | Middle | 2145.00         | 47.53                | 56.68          |
|      |        | High   | 2160.00         | 47.49                | 56.07          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2130.00         | 216.53                  | 217.79 | 217.09 | 217.89 |
| 2145.00         | 221.28                  | 222.39 | 220.76 | 221.72 |
| 2160.00         | 219.35                  | 220.14 | 220.24 | 219.92 |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2120.00         | 49.16                | 82.45          |
|      |        | Middle | 2145.00         | 49.37                | 86.44          |
|      |        | High   | 2170.00         | 49.57                | 90.55          |
|      | 16QAM  | Low    | 2120.00         | 49.19                | 82.99          |
|      |        | Middle | 2145.00         | 49.43                | 87.78          |
|      |        | High   | 2170.00         | 49.66                | 92.53          |
|      | 64QAM  | Low    | 2120.00         | 49.20                | 83.12          |
|      |        | Middle | 2145.00         | 49.39                | 86.84          |
|      |        | High   | 2170.00         | 49.61                | 91.37          |
|      | 256QAM | Low    | 2120.00         | 49.15                | 82.17          |
|      |        | Middle | 2145.00         | 49.43                | 87.72          |
|      |        | High   | 2170.00         | 49.61                | 91.45          |
| 1    | QPSK   | Low    | 2120.00         | 49.05                | 80.32          |
|      |        | Middle | 2145.00         | 49.37                | 86.48          |
|      |        | High   | 2170.00         | 49.51                | 89.33          |
|      | 16QAM  | Low    | 2120.00         | 49.09                | 81.17          |
|      |        | Middle | 2145.00         | 49.31                | 85.39          |
|      |        | High   | 2170.00         | 49.49                | 89.02          |
|      | 64QAM  | Low    | 2120.00         | 49.01                | 79.63          |
|      |        | Middle | 2145.00         | 49.31                | 85.33          |
|      |        | High   | 2170.00         | 49.44                | 87.82          |
|      | 256QAM | Low    | 2120.00         | 49.04                | 80.26          |
|      |        | Middle | 2145.00         | 49.29                | 85.00          |
|      |        | High   | 2170.00         | 49.50                | 89.15          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2120.00         | 162.77                  | 164.16 | 162.76 | 162.43 |
| 2145.00         | 172.92                  | 173.17 | 172.17 | 172.72 |
| 2170.00         | 179.88                  | 181.56 | 179.19 | 180.60 |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2127.50         | 48.27                | 67.14          |
|      |        | Middle | 2145.00         | 48.52                | 71.20          |
|      |        | High   | 2162.50         | 48.49                | 70.65          |
|      | 16QAM  | Low    | 2127.50         | 48.32                | 67.94          |
|      |        | Middle | 2145.00         | 48.55                | 71.70          |
|      |        | High   | 2162.50         | 48.50                | 70.71          |
|      | 64QAM  | Low    | 2127.50         | 48.35                | 68.41          |
|      |        | Middle | 2145.00         | 48.53                | 71.32          |
|      |        | High   | 2162.50         | 48.50                | 70.71          |
|      | 256QAM | Low    | 2127.50         | 48.31                | 67.75          |
|      |        | Middle | 2145.00         | 48.50                | 70.83          |
|      |        | High   | 2162.50         | 48.49                | 70.70          |
| 1    | QPSK   | Low    | 2127.50         | 48.51                | 70.93          |
|      |        | Middle | 2145.00         | 48.64                | 73.15          |
|      |        | High   | 2162.50         | 48.64                | 73.16          |
|      | 16QAM  | Low    | 2127.50         | 48.47                | 70.27          |
|      |        | Middle | 2145.00         | 48.67                | 73.62          |
|      |        | High   | 2162.50         | 48.59                | 72.29          |
|      | 64QAM  | Low    | 2127.50         | 48.49                | 70.63          |
|      |        | Middle | 2145.00         | 48.67                | 73.60          |
|      |        | High   | 2162.50         | 48.65                | 73.35          |
|      | 256QAM | Low    | 2127.50         | 48.49                | 70.60          |
|      |        | Middle | 2145.00         | 48.67                | 73.64          |
|      |        | High   | 2162.50         | 48.64                | 73.06          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2127.50         | 138.07                  | 138.21 | 139.04 | 138.35 |
| 2145.00         | 144.35                  | 145.32 | 144.92 | 144.47 |
| 2162.50         | 143.81                  | 143.01 | 144.07 | 143.76 |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2130.00         | 48.46                | 70.21          |
|      |        | Middle | 2145.00         | 48.57                | 72.01          |
|      |        | High   | 2160.00         | 48.59                | 72.23          |
|      | 16QAM  | Low    | 2130.00         | 48.43                | 69.63          |
|      |        | Middle | 2145.00         | 48.61                | 72.68          |
|      |        | High   | 2160.00         | 48.59                | 72.33          |
|      | 64QAM  | Low    | 2130.00         | 48.40                | 69.25          |
|      |        | Middle | 2145.00         | 48.58                | 72.13          |
|      |        | High   | 2160.00         | 48.55                | 71.66          |
|      | 256QAM | Low    | 2130.00         | 48.36                | 68.63          |
|      |        | Middle | 2145.00         | 48.56                | 71.85          |
|      |        | High   | 2160.00         | 48.57                | 71.96          |
| 1    | QPSK   | Low    | 2130.00         | 48.54                | 71.48          |
|      |        | Middle | 2145.00         | 48.76                | 75.18          |
|      |        | High   | 2160.00         | 48.71                | 74.32          |
|      | 16QAM  | Low    | 2130.00         | 48.57                | 71.99          |
|      |        | Middle | 2145.00         | 48.78                | 75.46          |
|      |        | High   | 2160.00         | 48.73                | 74.71          |
|      | 64QAM  | Low    | 2130.00         | 48.56                | 71.86          |
|      |        | Middle | 2145.00         | 48.75                | 74.97          |
|      |        | High   | 2160.00         | 48.69                | 73.98          |
|      | 256QAM | Low    | 2130.00         | 48.53                | 71.32          |
|      |        | Middle | 2145.00         | 48.78                | 75.47          |
|      |        | High   | 2160.00         | 48.68                | 73.86          |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2130.00         | 141.69                  | 141.63 | 141.11 | 139.95 |
| 2145.00         | 147.19                  | 148.14 | 147.10 | 147.32 |
| 2160.00         | 146.55                  | 147.04 | 145.64 | 145.82 |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2120.00         | 47.20                | 52.43          |
|      |        | Middle | 2145.00         | 47.29                | 53.53          |
|      |        | High   | 2170.00         | 47.30                | 53.65          |
|      | 16QAM  | Low    | 2120.00         | 47.23                | 52.78          |
|      |        | Middle | 2145.00         | 47.37                | 54.55          |
|      |        | High   | 2170.00         | 47.30                | 53.65          |
|      | 64QAM  | Low    | 2120.00         | 47.20                | 52.46          |
|      |        | Middle | 2145.00         | 47.33                | 54.09          |
|      |        | High   | 2170.00         | 47.29                | 53.59          |
|      | 256QAM | Low    | 2120.00         | 47.26                | 53.17          |
|      |        | Middle | 2145.00         | 47.33                | 54.05          |
|      |        | High   | 2170.00         | 47.22                | 52.70          |
| 1    | QPSK   | Low    | 2120.00         | 47.37                | 54.53          |
|      |        | Middle | 2145.00         | 47.44                | 55.48          |
|      |        | High   | 2170.00         | 47.43                | 55.32          |
|      | 16QAM  | Low    | 2120.00         | 47.37                | 54.63          |
|      |        | Middle | 2145.00         | 47.42                | 55.18          |
|      |        | High   | 2170.00         | 47.47                | 55.80          |
|      | 64QAM  | Low    | 2120.00         | 47.33                | 54.11          |
|      |        | Middle | 2145.00         | 47.41                | 55.08          |
|      |        | High   | 2170.00         | 47.42                | 55.20          |
|      | 256QAM | Low    | 2120.00         | 47.32                | 54.00          |
|      |        | Middle | 2145.00         | 47.36                | 54.43          |
|      |        | High   | 2170.00         | 47.41                | 55.04          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2120.00         | 47.38                | 54.76          |
|      |        | Middle | 2145.00         | 47.65                | 58.21          |
|      |        | High   | 2170.00         | 47.45                | 55.55          |
|      | 16QAM  | Low    | 2120.00         | 47.39                | 54.83          |
|      |        | Middle | 2145.00         | 47.66                | 58.40          |
|      |        | High   | 2170.00         | 47.44                | 55.49          |
|      | 64QAM  | Low    | 2120.00         | 47.48                | 56.01          |
|      |        | Middle | 2145.00         | 47.62                | 57.81          |
|      |        | High   | 2170.00         | 47.42                | 55.26          |
|      | 256QAM | Low    | 2120.00         | 47.46                | 55.71          |
|      |        | Middle | 2145.00         | 47.64                | 58.13          |
|      |        | High   | 2170.00         | 47.37                | 54.60          |
| 3    | QPSK   | Low    | 2120.00         | 47.30                | 53.67          |
|      |        | Middle | 2145.00         | 47.55                | 56.85          |
|      |        | High   | 2170.00         | 47.44                | 55.46          |
|      | 16QAM  | Low    | 2120.00         | 47.33                | 54.08          |
|      |        | Middle | 2145.00         | 47.48                | 55.94          |
|      |        | High   | 2170.00         | 47.39                | 54.78          |
|      | 64QAM  | Low    | 2120.00         | 47.32                | 53.95          |
|      |        | Middle | 2145.00         | 47.49                | 56.05          |
|      |        | High   | 2170.00         | 47.32                | 53.99          |
|      | 256QAM | Low    | 2120.00         | 47.37                | 54.54          |
|      |        | Middle | 2145.00         | 47.48                | 56.03          |
|      |        | High   | 2170.00         | 47.37                | 54.61          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2120.00         | 215.39                  | 216.31 | 216.53 | 217.42 |
| 2145.00         | 224.06                  | 224.07 | 223.03 | 222.63 |
| 2170.00         | 219.99                  | 219.71 | 218.03 | 216.96 |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2127.50         | 47.13                | 51.64          |
|      |        | Middle | 2145.00         | 47.21                | 52.59          |
|      |        | High   | 2162.50         | 47.22                | 52.77          |
|      | 16QAM  | Low    | 2127.50         | 47.07                | 50.91          |
|      |        | Middle | 2145.00         | 47.27                | 53.38          |
|      |        | High   | 2162.50         | 47.24                | 52.97          |
|      | 64QAM  | Low    | 2127.50         | 47.08                | 51.11          |
|      |        | Middle | 2145.00         | 47.26                | 53.22          |
|      |        | High   | 2162.50         | 47.22                | 52.77          |
|      | 256QAM | Low    | 2127.50         | 47.14                | 51.72          |
|      |        | Middle | 2145.00         | 47.25                | 53.11          |
|      |        | High   | 2162.50         | 47.29                | 53.62          |
| 1    | QPSK   | Low    | 2127.50         | 47.26                | 53.24          |
|      |        | Middle | 2145.00         | 47.46                | 55.72          |
|      |        | High   | 2162.50         | 47.37                | 54.56          |
|      | 16QAM  | Low    | 2127.50         | 47.21                | 52.66          |
|      |        | Middle | 2145.00         | 47.45                | 55.63          |
|      |        | High   | 2162.50         | 47.35                | 54.38          |
|      | 64QAM  | Low    | 2127.50         | 47.29                | 53.58          |
|      |        | Middle | 2145.00         | 47.40                | 54.90          |
|      |        | High   | 2162.50         | 47.31                | 53.83          |
|      | 256QAM | Low    | 2127.50         | 47.26                | 53.16          |
|      |        | Middle | 2145.00         | 47.38                | 54.68          |
|      |        | High   | 2162.50         | 47.36                | 54.48          |



| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2127.50         | 47.46                | 55.68          |
|      |        | Middle | 2145.00         | 47.62                | 57.81          |
|      |        | High   | 2162.50         | 47.58                | 57.28          |
|      | 16QAM  | Low    | 2127.50         | 47.39                | 54.79          |
|      |        | Middle | 2145.00         | 47.64                | 58.01          |
|      |        | High   | 2162.50         | 47.54                | 56.70          |
|      | 64QAM  | Low    | 2127.50         | 47.46                | 55.68          |
|      |        | Middle | 2145.00         | 47.60                | 57.54          |
|      |        | High   | 2162.50         | 47.56                | 56.99          |
|      | 256QAM | Low    | 2127.50         | 47.45                | 55.59          |
|      |        | Middle | 2145.00         | 47.58                | 57.35          |
|      |        | High   | 2162.50         | 47.63                | 58.01          |
| 3    | QPSK   | Low    | 2127.50         | 47.29                | 53.62          |
|      |        | Middle | 2145.00         | 47.53                | 56.64          |
|      |        | High   | 2162.50         | 47.50                | 56.27          |
|      | 16QAM  | Low    | 2127.50         | 47.30                | 53.77          |
|      |        | Middle | 2145.00         | 47.52                | 56.45          |
|      |        | High   | 2162.50         | 47.50                | 56.20          |
|      | 64QAM  | Low    | 2127.50         | 47.35                | 54.34          |
|      |        | Middle | 2145.00         | 47.49                | 56.05          |
|      |        | High   | 2162.50         | 47.51                | 56.39          |
|      | 256QAM | Low    | 2127.50         | 47.32                | 54.00          |
|      |        | Middle | 2145.00         | 47.50                | 56.27          |
|      |        | High   | 2162.50         | 47.51                | 56.42          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2127.50         | 214.17                  | 212.13 | 214.71 | 214.48 |
| 2145.00         | 222.75                  | 223.48 | 221.72 | 221.41 |
| 2162.50         | 220.89                  | 220.24 | 219.98 | 222.52 |

**(4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 0    | QPSK   | Low    | 2130.00         | 47.06                | 50.82          |
|      |        | Middle | 2145.00         | 47.24                | 53.00          |
|      |        | High   | 2160.00         | 47.22                | 52.75          |
|      | 16QAM  | Low    | 2130.00         | 47.07                | 50.90          |
|      |        | Middle | 2145.00         | 47.22                | 52.76          |
|      |        | High   | 2160.00         | 47.24                | 52.97          |
|      | 64QAM  | Low    | 2130.00         | 47.01                | 50.20          |
|      |        | Middle | 2145.00         | 47.25                | 53.13          |
|      |        | High   | 2160.00         | 47.27                | 53.36          |
|      | 256QAM | Low    | 2130.00         | 47.04                | 50.61          |
|      |        | Middle | 2145.00         | 47.26                | 53.15          |
|      |        | High   | 2160.00         | 47.25                | 53.13          |
| 1    | QPSK   | Low    | 2130.00         | 47.19                | 52.41          |
|      |        | Middle | 2145.00         | 47.42                | 55.17          |
|      |        | High   | 2160.00         | 47.32                | 53.90          |
|      | 16QAM  | Low    | 2130.00         | 47.19                | 52.36          |
|      |        | Middle | 2145.00         | 47.37                | 54.54          |
|      |        | High   | 2160.00         | 47.33                | 54.03          |
|      | 64QAM  | Low    | 2130.00         | 47.15                | 51.93          |
|      |        | Middle | 2145.00         | 47.36                | 54.41          |
|      |        | High   | 2160.00         | 47.31                | 53.81          |
|      | 256QAM | Low    | 2130.00         | 47.19                | 52.31          |
|      |        | Middle | 2145.00         | 47.35                | 54.30          |
|      |        | High   | 2160.00         | 47.32                | 53.91          |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm) | Calculated (W) |
|------|--------|--------|-----------------|----------------------|----------------|
| 2    | QPSK   | Low    | 2130.00         | 47.40                | 54.95          |
|      |        | Middle | 2145.00         | 47.57                | 57.16          |
|      |        | High   | 2160.00         | 47.55                | 56.87          |
|      | 16QAM  | Low    | 2130.00         | 47.35                | 54.30          |
|      |        | Middle | 2145.00         | 47.54                | 56.74          |
|      |        | High   | 2160.00         | 47.57                | 57.17          |
|      | 64QAM  | Low    | 2130.00         | 47.34                | 54.20          |
|      |        | Middle | 2145.00         | 47.55                | 56.85          |
|      |        | High   | 2160.00         | 47.53                | 56.58          |
|      | 256QAM | Low    | 2130.00         | 47.33                | 54.13          |
|      |        | Middle | 2145.00         | 47.52                | 56.51          |
|      |        | High   | 2160.00         | 47.53                | 56.65          |
| 3    | QPSK   | Low    | 2130.00         | 47.35                | 54.28          |
|      |        | Middle | 2145.00         | 47.53                | 56.61          |
|      |        | High   | 2160.00         | 47.46                | 55.67          |
|      | 16QAM  | Low    | 2130.00         | 47.26                | 53.25          |
|      |        | Middle | 2145.00         | 47.49                | 56.14          |
|      |        | High   | 2160.00         | 47.48                | 55.91          |
|      | 64QAM  | Low    | 2130.00         | 47.24                | 52.95          |
|      |        | Middle | 2145.00         | 47.46                | 55.72          |
|      |        | High   | 2160.00         | 47.44                | 55.41          |
|      | 256QAM | Low    | 2130.00         | 47.33                | 54.01          |
|      |        | Middle | 2145.00         | 47.47                | 55.90          |
|      |        | High   | 2160.00         | 47.48                | 55.95          |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2130.00         | 212.45                  | 210.81 | 209.28 | 211.06 |
| 2145.00         | 221.94                  | 220.18 | 220.10 | 219.85 |
| 2160.00         | 219.19                  | 220.08 | 219.17 | 219.64 |

**Tabular Data of RF Non-Contiguous output power**
**(2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B2 LTE 5 MHz       |                         | B2 LTE 5 MHz       |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50            | 44.22                   | 1987.50            | 44.36                   | 47.30                    | 53.73             |
|      | 16QAM  | 1932.50            | 44.21                   | 1987.50            | 44.35                   | 47.29                    | 53.62             |
|      | 64QAM  | 1932.50            | 44.35                   | 1987.50            | 44.29                   | 47.33                    | 54.11             |
|      | 256QAM | 1932.50            | 44.21                   | 1987.50            | 44.33                   | 47.28                    | 53.41             |
| 1    | QPSK   | 1932.50            | 44.30                   | 1987.50            | 44.32                   | 47.32                    | 54.01             |
|      | 16QAM  | 1932.50            | 44.15                   | 1987.50            | 44.37                   | 47.27                    | 53.38             |
|      | 64QAM  | 1932.50            | 44.19                   | 1987.50            | 44.33                   | 47.27                    | 53.36             |
|      | 256QAM | 1932.50            | 44.14                   | 1987.50            | 44.38                   | 47.27                    | 53.36             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1932.5+1987.5   | 107.75                  | 107.00 | 107.48 | 106.78 |

**(2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B2 LTE 5 MHz       |                         | B2 LTE 20 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50            | 39.89                   | 1980.00            | 46.14                   | 47.07                    | 50.90             |
|      | 16QAM  | 1932.50            | 40.05                   | 1980.00            | 46.16                   | 47.12                    | 51.48             |
|      | 64QAM  | 1932.50            | 39.92                   | 1980.00            | 46.21                   | 47.13                    | 51.63             |
|      | 256QAM | 1932.50            | 39.84                   | 1980.00            | 46.18                   | 47.09                    | 51.12             |
| 1    | QPSK   | 1932.50            | 39.83                   | 1980.00            | 46.04                   | 46.97                    | 49.81             |
|      | 16QAM  | 1932.50            | 39.90                   | 1980.00            | 46.03                   | 46.98                    | 49.89             |
|      | 64QAM  | 1932.50            | 39.90                   | 1980.00            | 46.05                   | 46.99                    | 50.02             |
|      | 256QAM | 1932.50            | 39.86                   | 1980.00            | 46.06                   | 46.99                    | 50.03             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1932.5+1980.0   | 100.72                  | 101.38 | 101.66 | 101.16 |

**(2 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B2 LTE 10 MHz      |                         | B2 LTE 20 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1935.00            | 42.48                   | 1980.00            | 45.52                   | 47.27                    | 53.35             |
|      | 16QAM  | 1935.00            | 42.49                   | 1980.00            | 45.53                   | 47.28                    | 53.46             |
|      | 64QAM  | 1935.00            | 42.48                   | 1980.00            | 45.55                   | 47.29                    | 53.60             |
|      | 256QAM | 1935.00            | 42.47                   | 1980.00            | 45.55                   | 47.29                    | 53.54             |
| 1    | QPSK   | 1935.00            | 42.42                   | 1980.00            | 45.39                   | 47.16                    | 52.02             |
|      | 16QAM  | 1935.00            | 42.35                   | 1980.00            | 45.50                   | 47.21                    | 52.65             |
|      | 64QAM  | 1935.00            | 42.42                   | 1980.00            | 45.42                   | 47.18                    | 52.28             |
|      | 256QAM | 1935.00            | 42.35                   | 1980.00            | 45.48                   | 47.20                    | 52.49             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1935.0+1980.0   | 105.37                  | 106.11 | 105.89 | 106.04 |

**(4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B2 LTE 5 MHz       |                         | B2 LTE 5 MHz       |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50            | 42.73                   | 1987.50            | 42.74                   | 45.75                    | 37.56             |
|      | 16QAM  | 1932.50            | 42.66                   | 1987.50            | 42.99                   | 45.84                    | 38.34             |
|      | 64QAM  | 1932.50            | 42.73                   | 1987.50            | 42.89                   | 45.82                    | 38.22             |
|      | 256QAM | 1932.50            | 42.74                   | 1987.50            | 42.76                   | 45.76                    | 37.67             |
| 1    | QPSK   | 1932.50            | 42.90                   | 1987.50            | 42.99                   | 45.96                    | 39.41             |
|      | 16QAM  | 1932.50            | 42.96                   | 1987.50            | 42.99                   | 45.99                    | 39.71             |
|      | 64QAM  | 1932.50            | 42.79                   | 1987.50            | 42.98                   | 45.90                    | 38.86             |
|      | 256QAM | 1932.50            | 42.80                   | 1987.50            | 43.04                   | 45.93                    | 39.18             |
| 2    | QPSK   | 1932.50            | 42.61                   | 1987.50            | 42.86                   | 45.75                    | 37.55             |
|      | 16QAM  | 1932.50            | 42.67                   | 1987.50            | 42.72                   | 45.70                    | 37.20             |
|      | 64QAM  | 1932.50            | 42.70                   | 1987.50            | 42.71                   | 45.72                    | 37.29             |
|      | 256QAM | 1932.50            | 42.73                   | 1987.50            | 42.88                   | 45.82                    | 38.17             |
| 3    | QPSK   | 1932.50            | 42.66                   | 1987.50            | 42.87                   | 45.78                    | 37.81             |
|      | 16QAM  | 1932.50            | 42.58                   | 1987.50            | 42.88                   | 45.74                    | 37.53             |
|      | 64QAM  | 1932.50            | 42.63                   | 1987.50            | 42.87                   | 45.76                    | 37.70             |
|      | 256QAM | 1932.50            | 42.65                   | 1987.50            | 42.91                   | 45.79                    | 37.92             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1932.5+1987.5   | 152.33                  | 152.79 | 152.08 | 152.95 |

**(4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B2 LTE 5 MHz       |                         | B2 LTE 20 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50            | 38.29                   | 1980.00            | 44.41                   | 45.36                    | 34.36             |
|      | 16QAM  | 1932.50            | 38.46                   | 1980.00            | 44.41                   | 45.40                    | 34.64             |
|      | 64QAM  | 1932.50            | 38.34                   | 1980.00            | 44.48                   | 45.43                    | 34.90             |
|      | 256QAM | 1932.50            | 38.41                   | 1980.00            | 44.50                   | 45.45                    | 35.11             |
| 1    | QPSK   | 1932.50            | 38.52                   | 1980.00            | 44.66                   | 45.61                    | 36.37             |
|      | 16QAM  | 1932.50            | 38.44                   | 1980.00            | 44.61                   | 45.55                    | 35.88             |
|      | 64QAM  | 1932.50            | 38.51                   | 1980.00            | 44.60                   | 45.55                    | 35.91             |
|      | 256QAM | 1932.50            | 38.53                   | 1980.00            | 44.62                   | 45.57                    | 36.07             |
| 2    | QPSK   | 1932.50            | 38.38                   | 1980.00            | 44.53                   | 45.47                    | 35.26             |
|      | 16QAM  | 1932.50            | 38.44                   | 1980.00            | 44.51                   | 45.47                    | 35.21             |
|      | 64QAM  | 1932.50            | 38.38                   | 1980.00            | 44.53                   | 45.47                    | 35.25             |
|      | 256QAM | 1932.50            | 38.31                   | 1980.00            | 44.50                   | 45.44                    | 34.97             |
| 3    | QPSK   | 1932.50            | 38.19                   | 1980.00            | 44.48                   | 45.39                    | 34.62             |
|      | 16QAM  | 1932.50            | 38.19                   | 1980.00            | 44.49                   | 45.40                    | 34.68             |
|      | 64QAM  | 1932.50            | 38.25                   | 1980.00            | 44.46                   | 45.39                    | 34.62             |
|      | 256QAM | 1932.50            | 38.20                   | 1980.00            | 44.49                   | 45.41                    | 34.75             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1932.5+1980.0   | 140.61                  | 140.42 | 140.69 | 140.90 |



**(4 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B2 LTE 10 MHz      |                         | B2 LTE 20 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1935.00            | 40.75                   | 1980.00            | 43.87                   | 45.60                    | 36.28             |
|      | 16QAM  | 1935.00            | 40.84                   | 1980.00            | 43.87                   | 45.63                    | 36.52             |
|      | 64QAM  | 1935.00            | 40.80                   | 1980.00            | 43.85                   | 45.60                    | 36.30             |
|      | 256QAM | 1935.00            | 40.74                   | 1980.00            | 43.85                   | 45.57                    | 36.10             |
| 1    | QPSK   | 1935.00            | 40.91                   | 1980.00            | 44.04                   | 45.77                    | 37.72             |
|      | 16QAM  | 1935.00            | 40.81                   | 1980.00            | 44.04                   | 45.73                    | 37.38             |
|      | 64QAM  | 1935.00            | 40.95                   | 1980.00            | 44.01                   | 45.76                    | 37.63             |
|      | 256QAM | 1935.00            | 40.94                   | 1980.00            | 44.00                   | 45.74                    | 37.52             |
| 2    | QPSK   | 1935.00            | 40.65                   | 1980.00            | 43.78                   | 45.50                    | 35.51             |
|      | 16QAM  | 1935.00            | 40.69                   | 1980.00            | 43.77                   | 45.51                    | 35.53             |
|      | 64QAM  | 1935.00            | 40.66                   | 1980.00            | 43.80                   | 45.52                    | 35.64             |
|      | 256QAM | 1935.00            | 40.66                   | 1980.00            | 43.83                   | 45.54                    | 35.79             |
| 3    | QPSK   | 1935.00            | 40.62                   | 1980.00            | 43.82                   | 45.51                    | 35.60             |
|      | 16QAM  | 1935.00            | 40.62                   | 1980.00            | 43.77                   | 45.49                    | 35.37             |
|      | 64QAM  | 1935.00            | 40.65                   | 1980.00            | 43.75                   | 45.48                    | 35.34             |
|      | 256QAM | 1935.00            | 40.59                   | 1980.00            | 43.83                   | 45.51                    | 35.59             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 1935.0+1980.0   | 145.11                  | 144.81 | 144.91 | 145.00 |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B66 LTE 5 MHz      |                         | B66 LTE 5 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2112.50            | 46.27                   | 2177.50            | 46.48                   | 49.39                    | 86.81             |
|      | 16QAM  | 2112.50            | 46.43                   | 2177.50            | 46.55                   | 49.50                    | 89.12             |
|      | 64QAM  | 2112.50            | 46.22                   | 2177.50            | 46.49                   | 49.37                    | 86.42             |
|      | 256QAM | 2112.50            | 46.29                   | 2177.50            | 46.57                   | 49.44                    | 87.91             |
| 1    | QPSK   | 2112.50            | 46.06                   | 2177.50            | 46.53                   | 49.31                    | 85.38             |
|      | 16QAM  | 2112.50            | 46.11                   | 2177.50            | 46.51                   | 49.32                    | 85.56             |
|      | 64QAM  | 2112.50            | 46.14                   | 2177.50            | 46.47                   | 49.32                    | 85.44             |
|      | 256QAM | 2112.50            | 46.15                   | 2177.50            | 46.45                   | 49.31                    | 85.33             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2112.5+2177.5   | 172.20                  | 174.69 | 171.86 | 173.25 |

**(2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B66 LTE 20 MHz     |                         | B66 LTE 5 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2120.00            | 48.22                   | 2177.50            | 42.36                   | 49.23                    | 83.69             |
|      | 16QAM  | 2120.00            | 48.51                   | 2177.50            | 42.76                   | 49.53                    | 89.83             |
|      | 64QAM  | 2120.00            | 48.29                   | 2177.50            | 42.56                   | 49.32                    | 85.46             |
|      | 256QAM | 2120.00            | 48.41                   | 2177.50            | 42.52                   | 49.40                    | 87.18             |
| 1    | QPSK   | 2120.00            | 48.19                   | 2177.50            | 42.38                   | 49.20                    | 83.17             |
|      | 16QAM  | 2120.00            | 48.24                   | 2177.50            | 42.59                   | 49.29                    | 84.90             |
|      | 64QAM  | 2120.00            | 48.16                   | 2177.50            | 42.38                   | 49.18                    | 82.79             |
|      | 256QAM | 2120.00            | 48.19                   | 2177.50            | 42.37                   | 49.20                    | 83.15             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | Output Power(Conducted) |        |        |        |
|-----------------|-------------------------|--------|--------|--------|
|                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                 | W                       |        |        |        |
| 2120.0+2177.5   | 166.86                  | 174.73 | 168.25 | 170.34 |

**(2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B66 LTE 20 MHz     |                         | B66 LTE 20 MHz     |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2120.00            | 45.76                   | 2170.00            | 45.48                   | 48.64                    | 73.06             |
|      | 16QAM  | 2120.00            | 45.76                   | 2170.00            | 45.57                   | 48.68                    | 73.72             |
|      | 64QAM  | 2120.00            | 45.72                   | 2170.00            | 45.50                   | 48.62                    | 72.76             |
|      | 256QAM | 2120.00            | 45.72                   | 2170.00            | 45.52                   | 48.63                    | 72.99             |
| 1    | QPSK   | 2120.00            | 45.68                   | 2170.00            | 45.61                   | 48.66                    | 73.43             |
|      | 16QAM  | 2120.00            | 45.71                   | 2170.00            | 45.62                   | 48.68                    | 73.73             |
|      | 64QAM  | 2120.00            | 45.65                   | 2170.00            | 45.65                   | 48.66                    | 73.52             |
|      | 256QAM | 2120.00            | 45.72                   | 2170.00            | 45.64                   | 48.69                    | 73.98             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz)   | Output Power(Conducted) |        |        |        |
|-------------------|-------------------------|--------|--------|--------|
|                   | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                   | W                       |        |        |        |
| 2120.00 + 2170.00 | 146.49                  | 147.46 | 146.28 | 146.97 |

**(4 Port) B66 LTE 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B66 LTE 10 MHz     |                         | B66 LTE 5 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2115.00            | 45.64                   | 2177.50            | 42.56                   | 47.38                    | 54.66             |
|      | 16QAM  | 2115.00            | 45.78                   | 2177.50            | 42.62                   | 47.49                    | 56.13             |
|      | 64QAM  | 2115.00            | 45.73                   | 2177.50            | 42.62                   | 47.46                    | 55.68             |
|      | 256QAM | 2115.00            | 45.70                   | 2177.50            | 42.56                   | 47.42                    | 55.21             |
| 1    | QPSK   | 2115.00            | 45.72                   | 2177.50            | 42.58                   | 47.43                    | 55.39             |
|      | 16QAM  | 2115.00            | 45.75                   | 2177.50            | 42.59                   | 47.46                    | 55.78             |
|      | 64QAM  | 2115.00            | 45.80                   | 2177.50            | 42.67                   | 47.52                    | 56.55             |
|      | 256QAM | 2115.00            | 45.68                   | 2177.50            | 42.55                   | 47.40                    | 55.01             |
| 2    | QPSK   | 2115.00            | 45.85                   | 2177.50            | 42.59                   | 47.53                    | 56.61             |
|      | 16QAM  | 2115.00            | 45.92                   | 2177.50            | 42.60                   | 47.58                    | 57.32             |
|      | 64QAM  | 2115.00            | 45.91                   | 2177.50            | 42.60                   | 47.57                    | 57.18             |
|      | 256QAM | 2115.00            | 45.91                   | 2177.50            | 42.66                   | 47.59                    | 57.40             |
| 3    | QPSK   | 2115.00            | 45.67                   | 2177.50            | 42.62                   | 47.42                    | 55.15             |
|      | 16QAM  | 2115.00            | 45.72                   | 2177.50            | 42.67                   | 47.47                    | 55.86             |
|      | 64QAM  | 2115.00            | 45.62                   | 2177.50            | 42.63                   | 47.39                    | 54.80             |
|      | 256QAM | 2115.00            | 45.68                   | 2177.50            | 42.52                   | 47.39                    | 54.87             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)   | Output Power(Conducted) |        |        |        |
|-------------------|-------------------------|--------|--------|--------|
|                   | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                   | W                       |        |        |        |
| 2115.00 + 2177.50 | 221.82                  | 225.09 | 224.20 | 222.49 |

**(4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B66 LTE 20 MHz     |                         | B66 LTE 5 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2120.00            | 46.75                   | 2177.50            | 40.48                   | 47.67                    | 58.44             |
|      | 16QAM  | 2120.00            | 46.64                   | 2177.50            | 40.42                   | 47.57                    | 57.17             |
|      | 64QAM  | 2120.00            | 46.73                   | 2177.50            | 40.44                   | 47.64                    | 58.10             |
|      | 256QAM | 2120.00            | 46.70                   | 2177.50            | 40.43                   | 47.62                    | 57.87             |
| 1    | QPSK   | 2120.00            | 46.57                   | 2177.50            | 40.39                   | 47.51                    | 56.35             |
|      | 16QAM  | 2120.00            | 46.53                   | 2177.50            | 40.39                   | 47.48                    | 55.93             |
|      | 64QAM  | 2120.00            | 46.56                   | 2177.50            | 40.32                   | 47.49                    | 56.09             |
|      | 256QAM | 2120.00            | 46.54                   | 2177.50            | 40.27                   | 47.46                    | 55.73             |
| 2    | QPSK   | 2120.00            | 46.78                   | 2177.50            | 40.45                   | 47.69                    | 58.70             |
|      | 16QAM  | 2120.00            | 46.75                   | 2177.50            | 40.43                   | 47.66                    | 58.33             |
|      | 64QAM  | 2120.00            | 46.79                   | 2177.50            | 40.43                   | 47.70                    | 58.85             |
|      | 256QAM | 2120.00            | 46.78                   | 2177.50            | 40.43                   | 47.69                    | 58.72             |
| 3    | QPSK   | 2120.00            | 46.48                   | 2177.50            | 40.36                   | 47.43                    | 55.32             |
|      | 16QAM  | 2120.00            | 46.54                   | 2177.50            | 40.30                   | 47.46                    | 55.76             |
|      | 64QAM  | 2120.00            | 46.47                   | 2177.50            | 40.41                   | 47.43                    | 55.30             |
|      | 256QAM | 2120.00            | 46.50                   | 2177.50            | 40.38                   | 47.45                    | 55.63             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)   | Output Power(Conducted) |        |        |        |
|-------------------|-------------------------|--------|--------|--------|
|                   | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                   | W                       |        |        |        |
| 2120.00 + 2177.50 | 228.82                  | 227.19 | 228.35 | 227.96 |

**(4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | B66 LTE 20 MHz     |                         | B66 LTE 20 MHz     |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2120.00            | 44.40                   | 2170.00            | 44.24                   | 47.33                    | 54.06             |
|      | 16QAM  | 2120.00            | 44.52                   | 2170.00            | 44.31                   | 47.43                    | 55.27             |
|      | 64QAM  | 2120.00            | 44.47                   | 2170.00            | 44.26                   | 47.38                    | 54.70             |
|      | 256QAM | 2120.00            | 44.43                   | 2170.00            | 44.29                   | 47.37                    | 54.59             |
| 1    | QPSK   | 2120.00            | 44.42                   | 2170.00            | 44.39                   | 47.42                    | 55.19             |
|      | 16QAM  | 2120.00            | 44.43                   | 2170.00            | 44.34                   | 47.40                    | 54.89             |
|      | 64QAM  | 2120.00            | 44.41                   | 2170.00            | 44.46                   | 47.44                    | 55.52             |
|      | 256QAM | 2120.00            | 44.33                   | 2170.00            | 44.31                   | 47.33                    | 54.07             |
| 2    | QPSK   | 2120.00            | 44.66                   | 2170.00            | 44.48                   | 47.58                    | 57.31             |
|      | 16QAM  | 2120.00            | 44.62                   | 2170.00            | 44.42                   | 47.53                    | 56.60             |
|      | 64QAM  | 2120.00            | 44.59                   | 2170.00            | 44.40                   | 47.51                    | 56.32             |
|      | 256QAM | 2120.00            | 44.67                   | 2170.00            | 44.50                   | 47.60                    | 57.49             |
| 3    | QPSK   | 2120.00            | 44.47                   | 2170.00            | 44.46                   | 47.47                    | 55.90             |
|      | 16QAM  | 2120.00            | 44.37                   | 2170.00            | 44.40                   | 47.39                    | 54.88             |
|      | 64QAM  | 2120.00            | 44.33                   | 2170.00            | 44.45                   | 47.40                    | 54.99             |
|      | 256QAM | 2120.00            | 44.41                   | 2170.00            | 44.35                   | 47.39                    | 54.81             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)   | Output Power(Conducted) |        |        |        |
|-------------------|-------------------------|--------|--------|--------|
|                   | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                   | W                       |        |        |        |
| 2120.00 + 2170.00 | 222.46                  | 221.64 | 221.54 | 220.96 |

**(2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

| Ant. | Mod    | B2 LTE 5 MHz       |                         | B2 LTE 5 MHz + B2 LTE 5 MHz |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|-----------------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)          | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50            | 42.45                   | 1982.50 + 1987.50           | 45.45                   | 47.22                    | 52.69             |
|      | 16QAM  | 1932.50            | 42.61                   | 1982.50 + 1987.50           | 45.58                   | 47.36                    | 54.40             |
|      | 64QAM  | 1932.50            | 42.58                   | 1982.50 + 1987.50           | 45.50                   | 47.29                    | 53.56             |
|      | 256QAM | 1932.50            | 42.61                   | 1982.50 + 1987.50           | 45.51                   | 47.31                    | 53.79             |
| 1    | QPSK   | 1932.50            | 42.40                   | 1982.50 + 1987.50           | 45.61                   | 47.30                    | 53.75             |
|      | 16QAM  | 1932.50            | 42.33                   | 1982.50 + 1987.50           | 45.60                   | 47.28                    | 53.43             |
|      | 64QAM  | 1932.50            | 42.39                   | 1982.50 + 1987.50           | 45.64                   | 47.32                    | 53.94             |
|      | 256QAM | 1932.50            | 42.32                   | 1982.50 + 1987.50           | 45.62                   | 47.29                    | 53.54             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 1932.50 + 1982.50 + 1987.50 | 106.44                  | 107.83 | 107.51 | 107.34 |



**(2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

| Ant. | Mod    | B2 LTE 5 MHz + B2 LTE 5 MHz |                         | B2 LTE 5 MHz       |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|-----------------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz)          | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50 + 1937.50           | 45.72                   | 1987.50            | 42.59                   | 47.44                    | 55.48             |
|      | 16QAM  | 1932.50 + 1937.50           | 45.61                   | 1987.50            | 42.56                   | 47.36                    | 54.43             |
|      | 64QAM  | 1932.50 + 1937.50           | 45.70                   | 1987.50            | 42.63                   | 47.44                    | 55.43             |
|      | 256QAM | 1932.50 + 1937.50           | 45.59                   | 1987.50            | 42.69                   | 47.39                    | 54.82             |
| 1    | QPSK   | 1932.50 + 1937.50           | 45.51                   | 1987.50            | 42.55                   | 47.29                    | 53.56             |
|      | 16QAM  | 1932.50 + 1937.50           | 45.49                   | 1987.50            | 42.57                   | 47.29                    | 53.52             |
|      | 64QAM  | 1932.50 + 1937.50           | 45.50                   | 1987.50            | 42.58                   | 47.29                    | 53.56             |
|      | 256QAM | 1932.50 + 1937.50           | 45.48                   | 1987.50            | 42.56                   | 47.27                    | 53.34             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 1932.50 + 1937.50 + 1987.50 | 109.05                  | 107.96 | 108.99 | 108.17 |

**(2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

| Ant. | Mod    | B2 LTE 5 MHz       |                         | B2 LTE 20 MHz + B2 LTE 5 MHz |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|------------------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)           | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50            | 39.29                   | 1975.00 + 1987.50            | 46.25                   | 47.04                    | 50.63             |
|      | 16QAM  | 1932.50            | 39.36                   | 1975.00 + 1987.50            | 46.24                   | 47.05                    | 50.73             |
|      | 64QAM  | 1932.50            | 39.28                   | 1975.00 + 1987.50            | 46.28                   | 47.07                    | 50.89             |
|      | 256QAM | 1932.50            | 39.36                   | 1975.00 + 1987.50            | 46.27                   | 47.07                    | 50.97             |
| 1    | QPSK   | 1932.50            | 39.18                   | 1975.00 + 1987.50            | 46.39                   | 47.15                    | 51.85             |
|      | 16QAM  | 1932.50            | 39.17                   | 1975.00 + 1987.50            | 46.37                   | 47.12                    | 51.57             |
|      | 64QAM  | 1932.50            | 39.24                   | 1975.00 + 1987.50            | 46.38                   | 47.15                    | 51.90             |
|      | 256QAM | 1932.50            | 39.25                   | 1975.00 + 1987.50            | 46.40                   | 47.17                    | 52.10             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 1932.50 + 1975.00 + 1987.50 | 102.49                  | 102.31 | 102.79 | 103.08 |

**(2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

| Ant. | Mod    | B2 LTE 5 MHz + B2 LTE 20 MHz |                         | B2 LTE 5 MHz       |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|------------------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz)           | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50 + 1945.00            | 46.60                   | 1987.50            | 39.54                   | 47.38                    | 54.68             |
|      | 16QAM  | 1932.50 + 1945.00            | 46.66                   | 1987.50            | 39.56                   | 47.44                    | 55.43             |
|      | 64QAM  | 1932.50 + 1945.00            | 46.65                   | 1987.50            | 39.51                   | 47.42                    | 55.18             |
|      | 256QAM | 1932.50 + 1945.00            | 46.69                   | 1987.50            | 39.46                   | 47.44                    | 55.46             |
| 1    | QPSK   | 1932.50 + 1945.00            | 46.44                   | 1987.50            | 39.53                   | 47.24                    | 53.02             |
|      | 16QAM  | 1932.50 + 1945.00            | 46.41                   | 1987.50            | 39.64                   | 47.24                    | 53.00             |
|      | 64QAM  | 1932.50 + 1945.00            | 46.42                   | 1987.50            | 39.53                   | 47.22                    | 52.78             |
|      | 256QAM | 1932.50 + 1945.00            | 46.41                   | 1987.50            | 39.52                   | 47.22                    | 52.75             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 1932.50 + 1945.00 + 1987.50 | 107.71                  | 108.44 | 107.97 | 108.22 |

**(4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

| Ant. | Mod    | B2 LTE 5 MHz       |                         | B2 LTE 5 MHz + B2 LTE 5 MHz |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|-----------------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)          | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50            | 40.78                   | 1982.50 + 1987.50           | 43.87                   | 45.60                    | 36.34             |
|      | 16QAM  | 1932.50            | 40.91                   | 1982.50 + 1987.50           | 43.99                   | 45.73                    | 37.37             |
|      | 64QAM  | 1932.50            | 40.88                   | 1982.50 + 1987.50           | 43.98                   | 45.71                    | 37.23             |
|      | 256QAM | 1932.50            | 40.92                   | 1982.50 + 1987.50           | 43.95                   | 45.70                    | 37.19             |
| 1    | QPSK   | 1932.50            | 41.04                   | 1982.50 + 1987.50           | 44.26                   | 45.95                    | 39.37             |
|      | 16QAM  | 1932.50            | 41.09                   | 1982.50 + 1987.50           | 44.20                   | 45.93                    | 39.17             |
|      | 64QAM  | 1932.50            | 40.98                   | 1982.50 + 1987.50           | 44.23                   | 45.91                    | 38.99             |
|      | 256QAM | 1932.50            | 41.11                   | 1982.50 + 1987.50           | 44.19                   | 45.93                    | 39.16             |
| 2    | QPSK   | 1932.50            | 40.82                   | 1982.50 + 1987.50           | 44.01                   | 45.71                    | 37.28             |
|      | 16QAM  | 1932.50            | 40.97                   | 1982.50 + 1987.50           | 43.95                   | 45.72                    | 37.33             |
|      | 64QAM  | 1932.50            | 40.83                   | 1982.50 + 1987.50           | 43.95                   | 45.67                    | 36.93             |
|      | 256QAM | 1932.50            | 40.83                   | 1982.50 + 1987.50           | 43.92                   | 45.65                    | 36.74             |
| 3    | QPSK   | 1932.50            | 40.60                   | 1982.50 + 1987.50           | 43.90                   | 45.57                    | 36.05             |
|      | 16QAM  | 1932.50            | 40.75                   | 1982.50 + 1987.50           | 43.85                   | 45.58                    | 36.16             |
|      | 64QAM  | 1932.50            | 40.63                   | 1982.50 + 1987.50           | 43.91                   | 45.58                    | 36.17             |
|      | 256QAM | 1932.50            | 40.70                   | 1982.50 + 1987.50           | 43.87                   | 45.58                    | 36.11             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 1932.50 + 1982.50 + 1987.50 | 149.04                  | 150.03 | 149.33 | 149.20 |

**(4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

| Ant. | Mod    | B2 LTE 5 MHz + B2 LTE 5 MHz |                         | B2 LTE 5 MHz       |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|-----------------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz)          | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50 + 1937.50           | 43.99                   | 1987.50            | 41.00                   | 45.76                    | 37.64             |
|      | 16QAM  | 1932.50 + 1937.50           | 43.99                   | 1987.50            | 41.04                   | 45.77                    | 37.76             |
|      | 64QAM  | 1932.50 + 1937.50           | 43.99                   | 1987.50            | 41.00                   | 45.76                    | 37.66             |
|      | 256QAM | 1932.50 + 1937.50           | 44.06                   | 1987.50            | 41.05                   | 45.82                    | 38.22             |
| 1    | QPSK   | 1932.50 + 1937.50           | 44.05                   | 1987.50            | 41.24                   | 45.88                    | 38.71             |
|      | 16QAM  | 1932.50 + 1937.50           | 43.97                   | 1987.50            | 41.25                   | 45.83                    | 38.32             |
|      | 64QAM  | 1932.50 + 1937.50           | 44.06                   | 1987.50            | 41.14                   | 45.85                    | 38.43             |
|      | 256QAM | 1932.50 + 1937.50           | 44.07                   | 1987.50            | 41.19                   | 45.87                    | 38.68             |
| 2    | QPSK   | 1932.50 + 1937.50           | 43.77                   | 1987.50            | 40.85                   | 45.56                    | 35.99             |
|      | 16QAM  | 1932.50 + 1937.50           | 43.84                   | 1987.50            | 40.91                   | 45.63                    | 36.52             |
|      | 64QAM  | 1932.50 + 1937.50           | 43.73                   | 1987.50            | 40.85                   | 45.54                    | 35.78             |
|      | 256QAM | 1932.50 + 1937.50           | 43.76                   | 1987.50            | 40.89                   | 45.57                    | 36.08             |
| 3    | QPSK   | 1932.50 + 1937.50           | 43.75                   | 1987.50            | 40.88                   | 45.56                    | 35.94             |
|      | 16QAM  | 1932.50 + 1937.50           | 43.70                   | 1987.50            | 40.92                   | 45.54                    | 35.79             |
|      | 64QAM  | 1932.50 + 1937.50           | 43.69                   | 1987.50            | 40.89                   | 45.52                    | 35.64             |
|      | 256QAM | 1932.50 + 1937.50           | 43.73                   | 1987.50            | 40.93                   | 45.57                    | 36.02             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 1932.50 + 1937.50 + 1987.50 | 148.27                  | 148.39 | 147.52 | 149.01 |

**(4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

| Ant. | Mod    | B2 LTE 5 MHz       |                         | B2 LTE 20 MHz + B2 LTE 5 MHz |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|------------------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)           | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50            | 37.55                   | 1975.00 + 1987.50            | 44.65                   | 45.43                    | 34.90             |
|      | 16QAM  | 1932.50            | 37.57                   | 1975.00 + 1987.50            | 44.73                   | 45.50                    | 35.44             |
|      | 64QAM  | 1932.50            | 37.55                   | 1975.00 + 1987.50            | 44.68                   | 45.45                    | 35.06             |
|      | 256QAM | 1932.50            | 37.59                   | 1975.00 + 1987.50            | 44.70                   | 45.47                    | 35.24             |
| 1    | QPSK   | 1932.50            | 37.72                   | 1975.00 + 1987.50            | 44.86                   | 45.63                    | 36.54             |
|      | 16QAM  | 1932.50            | 37.76                   | 1975.00 + 1987.50            | 44.88                   | 45.65                    | 36.71             |
|      | 64QAM  | 1932.50            | 37.72                   | 1975.00 + 1987.50            | 44.90                   | 45.66                    | 36.85             |
|      | 256QAM | 1932.50            | 37.71                   | 1975.00 + 1987.50            | 44.86                   | 45.63                    | 36.54             |
| 2    | QPSK   | 1932.50            | 37.61                   | 1975.00 + 1987.50            | 44.73                   | 45.50                    | 35.48             |
|      | 16QAM  | 1932.50            | 37.47                   | 1975.00 + 1987.50            | 44.66                   | 45.42                    | 34.83             |
|      | 64QAM  | 1932.50            | 37.61                   | 1975.00 + 1987.50            | 44.72                   | 45.49                    | 35.38             |
|      | 256QAM | 1932.50            | 37.57                   | 1975.00 + 1987.50            | 44.74                   | 45.50                    | 35.49             |
| 3    | QPSK   | 1932.50            | 37.46                   | 1975.00 + 1987.50            | 44.66                   | 45.42                    | 34.80             |
|      | 16QAM  | 1932.50            | 37.46                   | 1975.00 + 1987.50            | 44.60                   | 45.37                    | 34.41             |
|      | 64QAM  | 1932.50            | 37.33                   | 1975.00 + 1987.50            | 44.56                   | 45.31                    | 34.00             |
|      | 256QAM | 1932.50            | 37.47                   | 1975.00 + 1987.50            | 44.61                   | 45.37                    | 34.46             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 1932.50 + 1975.00 + 1987.50 | 141.72                  | 141.40 | 141.30 | 141.73 |

**(4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

| Ant. | Mod    | B2 LTE 5 MHz + B2 LTE 20 MHz |                         | B2 LTE 5 MHz       |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|------------------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz)           | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 1932.50 + 1945.00            | 44.79                   | 1987.50            | 37.93                   | 45.60                    | 36.35             |
|      | 16QAM  | 1932.50 + 1945.00            | 44.99                   | 1987.50            | 38.08                   | 45.79                    | 37.95             |
|      | 64QAM  | 1932.50 + 1945.00            | 44.93                   | 1987.50            | 37.95                   | 45.72                    | 37.34             |
|      | 256QAM | 1932.50 + 1945.00            | 44.89                   | 1987.50            | 37.89                   | 45.68                    | 36.95             |
| 1    | QPSK   | 1932.50 + 1945.00            | 45.04                   | 1987.50            | 38.13                   | 45.85                    | 38.43             |
|      | 16QAM  | 1932.50 + 1945.00            | 45.04                   | 1987.50            | 38.17                   | 45.85                    | 38.49             |
|      | 64QAM  | 1932.50 + 1945.00            | 45.02                   | 1987.50            | 38.10                   | 45.82                    | 38.23             |
|      | 256QAM | 1932.50 + 1945.00            | 45.05                   | 1987.50            | 38.15                   | 45.85                    | 38.50             |
| 2    | QPSK   | 1932.50 + 1945.00            | 44.75                   | 1987.50            | 37.77                   | 45.55                    | 35.86             |
|      | 16QAM  | 1932.50 + 1945.00            | 44.77                   | 1987.50            | 37.66                   | 45.54                    | 35.82             |
|      | 64QAM  | 1932.50 + 1945.00            | 44.70                   | 1987.50            | 37.78                   | 45.50                    | 35.52             |
|      | 256QAM | 1932.50 + 1945.00            | 44.72                   | 1987.50            | 37.78                   | 45.52                    | 35.61             |
| 3    | QPSK   | 1932.50 + 1945.00            | 44.65                   | 1987.50            | 37.81                   | 45.46                    | 35.18             |
|      | 16QAM  | 1932.50 + 1945.00            | 44.61                   | 1987.50            | 37.81                   | 45.43                    | 34.91             |
|      | 64QAM  | 1932.50 + 1945.00            | 44.65                   | 1987.50            | 37.86                   | 45.48                    | 35.30             |
|      | 256QAM | 1932.50 + 1945.00            | 44.59                   | 1987.50            | 37.71                   | 45.40                    | 34.70             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 1932.50 + 1945.00 + 1987.50 | 145.82                  | 147.18 | 146.40 | 145.76 |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

| Ant. | Mod    | B66 LTE 5 MHz      |                         | B66 LTE 5 MHz + B66 LTE 5 MHz |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|-------------------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)            | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2112.50            | 44.34                   | 2172.50 + 2177.50             | 47.75                   | 49.38                    | 86.70             |
|      | 16QAM  | 2112.50            | 44.52                   | 2172.50 + 2177.50             | 47.89                   | 49.53                    | 89.79             |
|      | 64QAM  | 2112.50            | 44.49                   | 2172.50 + 2177.50             | 47.72                   | 49.41                    | 87.36             |
|      | 256QAM | 2112.50            | 44.46                   | 2172.50 + 2177.50             | 47.76                   | 49.42                    | 87.59             |
| 1    | QPSK   | 2112.50            | 44.21                   | 2172.50 + 2177.50             | 47.56                   | 49.21                    | 83.41             |
|      | 16QAM  | 2112.50            | 44.27                   | 2172.50 + 2177.50             | 47.64                   | 49.28                    | 84.80             |
|      | 64QAM  | 2112.50            | 44.29                   | 2172.50 + 2177.50             | 47.52                   | 49.21                    | 83.30             |
|      | 256QAM | 2112.50            | 44.17                   | 2172.50 + 2177.50             | 47.54                   | 49.19                    | 82.93             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2112.50 + 2172.50 + 2177.50 | 170.12                  | 174.60 | 170.67 | 170.53 |



**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

| Ant. | Mod    | B66 LTE 5 MHz + B66 LTE 5 MHz |                         | B66 LTE 5 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|-------------------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz)            | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2112.50 + 2117.50             | 47.14                   | 2177.50            | 44.21                   | 48.93                    | 78.08             |
|      | 16QAM  | 2112.50 + 2117.50             | 47.23                   | 2177.50            | 44.37                   | 49.04                    | 80.18             |
|      | 64QAM  | 2112.50 + 2117.50             | 47.19                   | 2177.50            | 44.30                   | 48.99                    | 79.25             |
|      | 256QAM | 2112.50 + 2117.50             | 47.19                   | 2177.50            | 44.35                   | 49.01                    | 79.57             |
| 1    | QPSK   | 2112.50 + 2117.50             | 47.09                   | 2177.50            | 44.38                   | 48.95                    | 78.61             |
|      | 16QAM  | 2112.50 + 2117.50             | 47.10                   | 2177.50            | 44.24                   | 48.91                    | 77.81             |
|      | 64QAM  | 2112.50 + 2117.50             | 47.07                   | 2177.50            | 44.33                   | 48.92                    | 78.03             |
|      | 256QAM | 2112.50 + 2117.50             | 47.14                   | 2177.50            | 44.39                   | 48.99                    | 79.23             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2112.50 + 2117.50 + 2177.50 | 156.69                  | 158.01 | 157.28 | 158.81 |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

| Ant. | Mod    | B66 LTE 5 MHz      |                         | B66 LTE 20 MHz + B66 LTE 5 MHz |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)             | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2112.50            | 40.68                   | 2165.00 + 2177.50              | 47.51                   | 48.33                    | 68.01             |
|      | 16QAM  | 2112.50            | 40.74                   | 2165.00 + 2177.50              | 47.49                   | 48.33                    | 68.03             |
|      | 64QAM  | 2112.50            | 40.65                   | 2165.00 + 2177.50              | 47.53                   | 48.34                    | 68.30             |
|      | 256QAM | 2112.50            | 40.68                   | 2165.00 + 2177.50              | 47.48                   | 48.31                    | 67.70             |
| 1    | QPSK   | 2112.50            | 40.81                   | 2165.00 + 2177.50              | 47.68                   | 48.49                    | 70.69             |
|      | 16QAM  | 2112.50            | 40.88                   | 2165.00 + 2177.50              | 47.70                   | 48.52                    | 71.19             |
|      | 64QAM  | 2112.50            | 40.85                   | 2165.00 + 2177.50              | 47.70                   | 48.52                    | 71.06             |
|      | 256QAM | 2112.50            | 40.78                   | 2165.00 + 2177.50              | 47.70                   | 48.50                    | 70.87             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2112.50 + 2165.00 + 2177.50 | 138.71                  | 139.23 | 139.37 | 138.58 |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

| Ant. | Mod    | B66 LTE 5 MHz + B66 LTE 20 MHz |                         | B66 LTE 5 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz)             | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2112.50 + 2125.00              | 47.75                   | 2177.50            | 40.63                   | 48.52                    | 71.09             |
|      | 16QAM  | 2112.50 + 2125.00              | 47.79                   | 2177.50            | 40.68                   | 48.56                    | 71.79             |
|      | 64QAM  | 2112.50 + 2125.00              | 47.78                   | 2177.50            | 40.68                   | 48.55                    | 71.66             |
|      | 256QAM | 2112.50 + 2125.00              | 47.79                   | 2177.50            | 40.73                   | 48.57                    | 72.00             |
| 1    | QPSK   | 2112.50 + 2125.00              | 47.68                   | 2177.50            | 40.64                   | 48.46                    | 70.18             |
|      | 16QAM  | 2112.50 + 2125.00              | 47.73                   | 2177.50            | 40.60                   | 48.50                    | 70.72             |
|      | 64QAM  | 2112.50 + 2125.00              | 47.73                   | 2177.50            | 40.67                   | 48.51                    | 70.92             |
|      | 256QAM | 2112.50 + 2125.00              | 47.74                   | 2177.50            | 40.67                   | 48.52                    | 71.08             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2112.50 + 2125.00 + 2177.50 | 141.28                  | 142.52 | 142.59 | 143.08 |

**(2 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

| Ant. | Mod    | B66 LTE 15 MHz     |                         | B66 LTE 20 MHz + B66 LTE 5 MHz |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)             | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2117.50            | 44.45                   | 2165.00 + 2177.50              | 46.49                   | 48.60                    | 72.41             |
|      | 16QAM  | 2117.50            | 44.48                   | 2165.00 + 2177.50              | 46.52                   | 48.63                    | 72.92             |
|      | 64QAM  | 2117.50            | 44.48                   | 2165.00 + 2177.50              | 46.51                   | 48.62                    | 72.82             |
|      | 256QAM | 2117.50            | 44.43                   | 2165.00 + 2177.50              | 46.47                   | 48.58                    | 72.12             |
| 1    | QPSK   | 2117.50            | 44.42                   | 2165.00 + 2177.50              | 46.60                   | 48.66                    | 73.37             |
|      | 16QAM  | 2117.50            | 44.42                   | 2165.00 + 2177.50              | 46.67                   | 48.70                    | 74.10             |
|      | 64QAM  | 2117.50            | 44.51                   | 2165.00 + 2177.50              | 46.65                   | 48.72                    | 74.46             |
|      | 256QAM | 2117.50            | 44.45                   | 2165.00 + 2177.50              | 46.62                   | 48.68                    | 73.74             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2117.50 + 2165.00 + 2177.50 | 145.79                  | 147.03 | 147.29 | 145.87 |

**(2 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

| Ant. | Mod    | B66 LTE 15 MHz + B66 LTE 20 MHz |                         | B66 LTE 5 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|---------------------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz)              | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2117.50 + 2135.00               | 48.05                   | 2177.50            | 39.53                   | 48.62                    | 72.76             |
|      | 16QAM  | 2117.50 + 2135.00               | 48.13                   | 2177.50            | 39.56                   | 48.69                    | 74.01             |
|      | 64QAM  | 2117.50 + 2135.00               | 48.09                   | 2177.50            | 39.53                   | 48.65                    | 73.36             |
|      | 256QAM | 2117.50 + 2135.00               | 48.07                   | 2177.50            | 39.64                   | 48.65                    | 73.31             |
| 1    | QPSK   | 2117.50 + 2135.00               | 48.05                   | 2177.50            | 39.66                   | 48.64                    | 73.11             |
|      | 16QAM  | 2117.50 + 2135.00               | 48.07                   | 2177.50            | 39.57                   | 48.64                    | 73.15             |
|      | 64QAM  | 2117.50 + 2135.00               | 48.05                   | 2177.50            | 39.54                   | 48.63                    | 72.89             |
|      | 256QAM | 2117.50 + 2135.00               | 48.08                   | 2177.50            | 39.57                   | 48.65                    | 73.25             |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2117.50 + 2135.00 + 2177.50 | 145.89                  | 147.17 | 146.25 | 146.57 |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

| Ant. | Mod    | B66 LTE 5 MHz      |                         | B66 LTE 5 MHz + B66 LTE 5 MHz |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|-------------------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)            | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2112.50            | 42.70                   | 2172.50 + 2177.50             | 45.62                   | 47.41                    | 55.13             |
|      | 16QAM  | 2112.50            | 42.84                   | 2172.50 + 2177.50             | 45.64                   | 47.47                    | 55.91             |
|      | 64QAM  | 2112.50            | 42.71                   | 2172.50 + 2177.50             | 45.61                   | 47.41                    | 55.06             |
|      | 256QAM | 2112.50            | 42.75                   | 2172.50 + 2177.50             | 45.70                   | 47.48                    | 55.96             |
| 1    | QPSK   | 2112.50            | 42.77                   | 2172.50 + 2177.50             | 45.68                   | 47.47                    | 55.87             |
|      | 16QAM  | 2112.50            | 42.81                   | 2172.50 + 2177.50             | 45.66                   | 47.47                    | 55.89             |
|      | 64QAM  | 2112.50            | 42.74                   | 2172.50 + 2177.50             | 45.63                   | 47.43                    | 55.33             |
|      | 256QAM | 2112.50            | 42.77                   | 2172.50 + 2177.50             | 45.64                   | 47.45                    | 55.54             |
| 2    | QPSK   | 2112.50            | 42.84                   | 2172.50 + 2177.50             | 45.65                   | 47.48                    | 55.99             |
|      | 16QAM  | 2112.50            | 42.85                   | 2172.50 + 2177.50             | 45.71                   | 47.52                    | 56.50             |
|      | 64QAM  | 2112.50            | 42.89                   | 2172.50 + 2177.50             | 45.68                   | 47.52                    | 56.46             |
|      | 256QAM | 2112.50            | 42.81                   | 2172.50 + 2177.50             | 45.66                   | 47.48                    | 55.92             |
| 3    | QPSK   | 2112.50            | 42.74                   | 2172.50 + 2177.50             | 45.63                   | 47.43                    | 55.35             |
|      | 16QAM  | 2112.50            | 42.74                   | 2172.50 + 2177.50             | 45.53                   | 47.37                    | 54.52             |
|      | 64QAM  | 2112.50            | 42.77                   | 2172.50 + 2177.50             | 45.59                   | 47.41                    | 55.12             |
|      | 256QAM | 2112.50            | 42.68                   | 2172.50 + 2177.50             | 45.62                   | 47.41                    | 55.04             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2112.50 + 2172.50 + 2177.50 | 222.34                  | 222.82 | 221.98 | 222.47 |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

| Ant. | Mod    | B66 LTE 5 MHz + B66 LTE 5 MHz |                         | B66 LTE 5 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|-------------------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz)            | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2112.50 + 2117.50             | 45.84                   | 2177.50            | 42.65                   | 47.54                    | 56.78             |
|      | 16QAM  | 2112.50 + 2117.50             | 45.83                   | 2177.50            | 42.76                   | 47.57                    | 57.18             |
|      | 64QAM  | 2112.50 + 2117.50             | 45.87                   | 2177.50            | 42.71                   | 47.58                    | 57.32             |
|      | 256QAM | 2112.50 + 2117.50             | 45.88                   | 2177.50            | 42.73                   | 47.60                    | 57.52             |
| 1    | QPSK   | 2112.50 + 2117.50             | 45.74                   | 2177.50            | 42.62                   | 47.47                    | 55.80             |
|      | 16QAM  | 2112.50 + 2117.50             | 45.82                   | 2177.50            | 42.77                   | 47.57                    | 57.10             |
|      | 64QAM  | 2112.50 + 2117.50             | 45.84                   | 2177.50            | 42.70                   | 47.56                    | 56.99             |
|      | 256QAM | 2112.50 + 2117.50             | 45.76                   | 2177.50            | 42.72                   | 47.51                    | 56.37             |
| 2    | QPSK   | 2112.50 + 2117.50             | 45.96                   | 2177.50            | 42.71                   | 47.64                    | 58.10             |
|      | 16QAM  | 2112.50 + 2117.50             | 46.01                   | 2177.50            | 42.70                   | 47.67                    | 58.47             |
|      | 64QAM  | 2112.50 + 2117.50             | 46.00                   | 2177.50            | 42.74                   | 47.68                    | 58.61             |
|      | 256QAM | 2112.50 + 2117.50             | 45.93                   | 2177.50            | 42.70                   | 47.62                    | 57.83             |
| 3    | QPSK   | 2112.50 + 2117.50             | 45.72                   | 2177.50            | 42.71                   | 47.48                    | 56.01             |
|      | 16QAM  | 2112.50 + 2117.50             | 45.79                   | 2177.50            | 42.70                   | 47.52                    | 56.51             |
|      | 64QAM  | 2112.50 + 2117.50             | 45.79                   | 2177.50            | 42.70                   | 47.53                    | 56.57             |
|      | 256QAM | 2112.50 + 2117.50             | 45.73                   | 2177.50            | 42.64                   | 47.46                    | 55.78             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2112.50 + 2117.50 + 2177.50 | 226.70                  | 229.27 | 229.49 | 227.50 |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

| Ant. | Mod    | B66 LTE 5 MHz      |                         | B66 LTE 20 MHz + B66 LTE 5 MHz |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)             | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2112.50            | 39.55                   | 2165.00 + 2177.50              | 46.35                   | 47.17                    | 52.12             |
|      | 16QAM  | 2112.50            | 39.64                   | 2165.00 + 2177.50              | 46.43                   | 47.25                    | 53.14             |
|      | 64QAM  | 2112.50            | 39.64                   | 2165.00 + 2177.50              | 46.39                   | 47.22                    | 52.75             |
|      | 256QAM | 2112.50            | 39.62                   | 2165.00 + 2177.50              | 46.34                   | 47.18                    | 52.25             |
| 1    | QPSK   | 2112.50            | 39.74                   | 2165.00 + 2177.50              | 46.62                   | 47.43                    | 55.31             |
|      | 16QAM  | 2112.50            | 39.72                   | 2165.00 + 2177.50              | 46.64                   | 47.45                    | 55.55             |
|      | 64QAM  | 2112.50            | 39.70                   | 2165.00 + 2177.50              | 46.57                   | 47.38                    | 54.76             |
|      | 256QAM | 2112.50            | 39.67                   | 2165.00 + 2177.50              | 46.58                   | 47.38                    | 54.74             |
| 2    | QPSK   | 2112.50            | 39.79                   | 2165.00 + 2177.50              | 46.69                   | 47.50                    | 56.22             |
|      | 16QAM  | 2112.50            | 39.82                   | 2165.00 + 2177.50              | 46.63                   | 47.46                    | 55.66             |
|      | 64QAM  | 2112.50            | 39.71                   | 2165.00 + 2177.50              | 46.61                   | 47.42                    | 55.16             |
|      | 256QAM | 2112.50            | 39.75                   | 2165.00 + 2177.50              | 46.62                   | 47.43                    | 55.35             |
| 3    | QPSK   | 2112.50            | 39.63                   | 2165.00 + 2177.50              | 46.63                   | 47.42                    | 55.19             |
|      | 16QAM  | 2112.50            | 39.58                   | 2165.00 + 2177.50              | 46.52                   | 47.32                    | 53.90             |
|      | 64QAM  | 2112.50            | 39.69                   | 2165.00 + 2177.50              | 46.54                   | 47.35                    | 54.38             |
|      | 256QAM | 2112.50            | 39.58                   | 2165.00 + 2177.50              | 46.58                   | 47.37                    | 54.53             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2112.50 + 2165.00 + 2177.50 | 218.83                  | 218.25 | 217.05 | 216.87 |



**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

| Ant. | Mod    | B66 LTE 5 MHz + B66 LTE 20 MHz |                         | B66 LTE 5 MHz      |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz)             | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2112.50 + 2125.00              | 46.68                   | 2177.50            | 39.52                   | 47.44                    | 55.46             |
|      | 16QAM  | 2112.50 + 2125.00              | 46.68                   | 2177.50            | 39.57                   | 47.45                    | 55.65             |
|      | 64QAM  | 2112.50 + 2125.00              | 46.63                   | 2177.50            | 39.58                   | 47.41                    | 55.08             |
|      | 256QAM | 2112.50 + 2125.00              | 46.68                   | 2177.50            | 39.55                   | 47.45                    | 55.60             |
| 1    | QPSK   | 2112.50 + 2125.00              | 46.58                   | 2177.50            | 39.59                   | 47.38                    | 54.64             |
|      | 16QAM  | 2112.50 + 2125.00              | 46.53                   | 2177.50            | 39.49                   | 47.32                    | 53.91             |
|      | 64QAM  | 2112.50 + 2125.00              | 46.55                   | 2177.50            | 39.57                   | 47.35                    | 54.29             |
|      | 256QAM | 2112.50 + 2125.00              | 46.55                   | 2177.50            | 39.49                   | 47.33                    | 54.08             |
| 2    | QPSK   | 2112.50 + 2125.00              | 46.84                   | 2177.50            | 39.69                   | 47.61                    | 57.65             |
|      | 16QAM  | 2112.50 + 2125.00              | 46.82                   | 2177.50            | 39.55                   | 47.57                    | 57.11             |
|      | 64QAM  | 2112.50 + 2125.00              | 46.80                   | 2177.50            | 39.65                   | 47.57                    | 57.13             |
|      | 256QAM | 2112.50 + 2125.00              | 46.78                   | 2177.50            | 39.65                   | 47.55                    | 56.84             |
| 3    | QPSK   | 2112.50 + 2125.00              | 46.58                   | 2177.50            | 39.57                   | 47.37                    | 54.62             |
|      | 16QAM  | 2112.50 + 2125.00              | 46.53                   | 2177.50            | 39.40                   | 47.30                    | 53.66             |
|      | 64QAM  | 2112.50 + 2125.00              | 46.54                   | 2177.50            | 39.54                   | 47.33                    | 54.06             |
|      | 256QAM | 2112.50 + 2125.00              | 46.51                   | 2177.50            | 39.49                   | 47.30                    | 53.70             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2112.50 + 2125.00 + 2177.50 | 222.37                  | 220.33 | 220.57 | 220.23 |

**(4 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

| Ant. | Mod    | B66 LTE 15 MHz     |                         | B66 LTE 20 MHz + B66 LTE 5 MHz |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)             | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2117.50            | 43.23                   | 2165.00 + 2177.50              | 45.21                   | 47.34                    | 54.22             |
|      | 16QAM  | 2117.50            | 43.28                   | 2165.00 + 2177.50              | 45.25                   | 47.38                    | 54.72             |
|      | 64QAM  | 2117.50            | 43.34                   | 2165.00 + 2177.50              | 45.22                   | 47.39                    | 54.88             |
|      | 256QAM | 2117.50            | 43.30                   | 2165.00 + 2177.50              | 45.22                   | 47.38                    | 54.65             |
| 1    | QPSK   | 2117.50            | 43.26                   | 2165.00 + 2177.50              | 45.35                   | 47.44                    | 55.44             |
|      | 16QAM  | 2117.50            | 43.25                   | 2165.00 + 2177.50              | 45.38                   | 47.45                    | 55.62             |
|      | 64QAM  | 2117.50            | 43.25                   | 2165.00 + 2177.50              | 45.38                   | 47.45                    | 55.65             |
|      | 256QAM | 2117.50            | 43.19                   | 2165.00 + 2177.50              | 45.30                   | 47.38                    | 54.68             |
| 2    | QPSK   | 2117.50            | 43.42                   | 2165.00 + 2177.50              | 45.45                   | 47.56                    | 57.01             |
|      | 16QAM  | 2117.50            | 43.33                   | 2165.00 + 2177.50              | 45.41                   | 47.50                    | 56.28             |
|      | 64QAM  | 2117.50            | 43.45                   | 2165.00 + 2177.50              | 45.40                   | 47.54                    | 56.79             |
|      | 256QAM | 2117.50            | 43.40                   | 2165.00 + 2177.50              | 45.44                   | 47.55                    | 56.85             |
| 3    | QPSK   | 2117.50            | 43.26                   | 2165.00 + 2177.50              | 45.45                   | 47.50                    | 56.27             |
|      | 16QAM  | 2117.50            | 43.25                   | 2165.00 + 2177.50              | 45.38                   | 47.45                    | 55.64             |
|      | 64QAM  | 2117.50            | 43.26                   | 2165.00 + 2177.50              | 45.39                   | 47.47                    | 55.82             |
|      | 256QAM | 2117.50            | 43.22                   | 2165.00 + 2177.50              | 45.36                   | 47.43                    | 55.34             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2117.50 + 2165.00 + 2177.50 | 222.95                  | 222.27 | 223.14 | 221.52 |

**(4 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

| Ant. | Mod    | B2 LTE 15 MHz + B2 LTE 20 MHz |                         | B2 LTE 5 MHz       |                         | Summation Value<br>(dBm) | Calculated<br>(W) |
|------|--------|-------------------------------|-------------------------|--------------------|-------------------------|--------------------------|-------------------|
|      |        | Frequency<br>(MHz)            | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                          |                   |
| 0    | QPSK   | 2117.50 + 2135.00             | 46.87                   | 2177.50            | 38.17                   | 47.42                    | 55.18             |
|      | 16QAM  | 2117.50 + 2135.00             | 46.88                   | 2177.50            | 38.31                   | 47.45                    | 55.56             |
|      | 64QAM  | 2117.50 + 2135.00             | 46.90                   | 2177.50            | 38.36                   | 47.47                    | 55.87             |
|      | 256QAM | 2117.50 + 2135.00             | 46.89                   | 2177.50            | 38.32                   | 47.45                    | 55.62             |
| 1    | QPSK   | 2117.50 + 2135.00             | 46.79                   | 2177.50            | 38.33                   | 47.37                    | 54.53             |
|      | 16QAM  | 2117.50 + 2135.00             | 46.81                   | 2177.50            | 38.28                   | 47.38                    | 54.74             |
|      | 64QAM  | 2117.50 + 2135.00             | 46.82                   | 2177.50            | 38.30                   | 47.39                    | 54.86             |
|      | 256QAM | 2117.50 + 2135.00             | 46.83                   | 2177.50            | 38.32                   | 47.40                    | 55.01             |
| 2    | QPSK   | 2117.50 + 2135.00             | 47.13                   | 2177.50            | 38.50                   | 47.69                    | 58.72             |
|      | 16QAM  | 2117.50 + 2135.00             | 47.09                   | 2177.50            | 38.37                   | 47.64                    | 58.03             |
|      | 64QAM  | 2117.50 + 2135.00             | 47.07                   | 2177.50            | 38.42                   | 47.62                    | 57.84             |
|      | 256QAM | 2117.50 + 2135.00             | 47.11                   | 2177.50            | 38.44                   | 47.67                    | 58.43             |
| 3    | QPSK   | 2117.50 + 2135.00             | 46.88                   | 2177.50            | 38.41                   | 47.46                    | 55.70             |
|      | 16QAM  | 2117.50 + 2135.00             | 46.88                   | 2177.50            | 38.25                   | 47.44                    | 55.43             |
|      | 64QAM  | 2117.50 + 2135.00             | 46.91                   | 2177.50            | 38.30                   | 47.47                    | 55.86             |
|      | 256QAM | 2117.50 + 2135.00             | 46.91                   | 2177.50            | 38.33                   | 47.47                    | 55.87             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)             | Output Power(Conducted) |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
|                             | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                             | W                       |        |        |        |
| 2117.50 + 2135.00 + 2177.50 | 224.14                  | 223.78 | 224.43 | 224.93 |

(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]  
(1C+3C)

| Ant. | Mod    | B66 LTE 5 MHz      |                         | B66 LTE 5 MHz + B66 LTE 5 MHz<br>+ B66 LTE 5 MHz |                         | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------------------------------------|-------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)                               | Measured Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50            | 43.26                   | 2167.50 + 2172.50 + 2177.50                      | 48.28                   | 49.47                       | 88.44             |
|      | 16QAM  | 2112.50            | 43.31                   | 2167.50 + 2172.50 + 2177.50                      | 48.35                   | 49.53                       | 89.83             |
|      | 64QAM  | 2112.50            | 43.31                   | 2167.50 + 2172.50 + 2177.50                      | 48.35                   | 49.53                       | 89.76             |
|      | 256QAM | 2112.50            | 43.37                   | 2167.50 + 2172.50 + 2177.50                      | 48.36                   | 49.55                       | 90.22             |
| 1    | QPSK   | 2112.50            | 43.01                   | 2167.50 + 2172.50 + 2177.50                      | 48.14                   | 49.30                       | 85.19             |
|      | 16QAM  | 2112.50            | 43.00                   | 2167.50 + 2172.50 + 2177.50                      | 48.13                   | 49.29                       | 84.95             |
|      | 64QAM  | 2112.50            | 43.04                   | 2167.50 + 2172.50 + 2177.50                      | 48.16                   | 49.33                       | 85.64             |
|      | 256QAM | 2112.50            | 42.94                   | 2167.50 + 2172.50 + 2177.50                      | 48.15                   | 49.29                       | 84.99             |

#### Sum Data of Port 0 and Port 1

| Frequency (MHz)                       | Output Power(Conducted) |        |        |        |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                       | W                       |        |        |        |
| 2112.50 + 2167.50 + 2172.50 + 2177.50 | 173.64                  | 174.78 | 175.41 | 175.21 |

(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]  
(3C+1C)

| Ant. | Mod    | B66 LTE 5 MHz + B66 LTE 5 MHz<br>+ B66 LTE 5 MHz |                         | B66 LTE 5 MHz      |                         | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------------------------------------|-------------------------|--------------------|-------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz)                               | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50 + 2117.50 + 2122.50                      | 48.02                   | 2177.50            | 43.40                   | 49.31                       | 85.30             |
|      | 16QAM  | 2112.50 + 2117.50 + 2122.50                      | 48.14                   | 2177.50            | 43.71                   | 49.48                       | 88.64             |
|      | 64QAM  | 2112.50 + 2117.50 + 2122.50                      | 48.10                   | 2177.50            | 43.44                   | 49.38                       | 86.68             |
|      | 256QAM | 2112.50 + 2117.50 + 2122.50                      | 48.10                   | 2177.50            | 43.53                   | 49.40                       | 87.11             |
| 1    | QPSK   | 2112.50 + 2117.50 + 2122.50                      | 47.89                   | 2177.50            | 43.33                   | 49.19                       | 82.99             |
|      | 16QAM  | 2112.50 + 2117.50 + 2122.50                      | 47.89                   | 2177.50            | 43.35                   | 49.20                       | 83.12             |
|      | 64QAM  | 2112.50 + 2117.50 + 2122.50                      | 47.87                   | 2177.50            | 43.34                   | 49.18                       | 82.86             |
|      | 256QAM | 2112.50 + 2117.50 + 2122.50                      | 47.88                   | 2177.50            | 43.38                   | 49.20                       | 83.20             |

#### Sum Data of Port 0 and Port 1

| Frequency (MHz)                       | Output Power(Conducted) |        |        |        |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                       | W                       |        |        |        |
| 2112.50 + 2117.50 + 2122.50 + 2177.50 | 168.30                  | 171.76 | 169.55 | 170.32 |

(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]  
(1C+3C)

| Ant. | Mod    | B66 LTE 5 MHz      |                         | B66 LTE 20 MHz + B66 LTE 5 MHz<br>+ B66 LTE 5 MHz |                         | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|---------------------------------------------------|-------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)                                | Measured Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50            | 40.06                   | 2160.00 + 2172.50 + 2117.50                       | 47.75                   | 48.43                       | 69.73             |
|      | 16QAM  | 2112.50            | 40.07                   | 2160.00 + 2172.50 + 2117.50                       | 47.74                   | 48.43                       | 69.63             |
|      | 64QAM  | 2112.50            | 40.09                   | 2160.00 + 2172.50 + 2117.50                       | 47.74                   | 48.43                       | 69.60             |
|      | 256QAM | 2112.50            | 40.01                   | 2160.00 + 2172.50 + 2117.50                       | 47.73                   | 48.41                       | 69.29             |
| 1    | QPSK   | 2112.50            | 40.13                   | 2160.00 + 2172.50 + 2117.50                       | 47.90                   | 48.58                       | 72.03             |
|      | 16QAM  | 2112.50            | 40.20                   | 2160.00 + 2172.50 + 2117.50                       | 47.93                   | 48.61                       | 72.62             |
|      | 64QAM  | 2112.50            | 40.23                   | 2160.00 + 2172.50 + 2117.50                       | 47.91                   | 48.59                       | 72.26             |
|      | 256QAM | 2112.50            | 40.14                   | 2160.00 + 2172.50 + 2117.50                       | 47.89                   | 48.56                       | 71.81             |

#### Sum Data of Port 0 and Port 1

| Frequency (MHz)                       | Output Power(Conducted) |        |        |        |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                       | W                       |        |        |        |
| 2112.50 + 2160.00 + 2172.50 + 2117.50 | 141.77                  | 142.26 | 141.87 | 141.11 |

(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]  
(3C+1C)

| Ant. | Mod    | B66 LTE 5 MHz + B66 LTE 5 MHz<br>+ B66 LTE 20 MHz |                         | B66 LTE 5 MHz      |                         | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|---------------------------------------------------|-------------------------|--------------------|-------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz)                                | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50+2117.50+2130.00                           | 47.87                   | 2177.50            | 39.93                   | 48.52                       | 71.08             |
|      | 16QAM  | 2112.50+2117.50+2130.00                           | 47.89                   | 2177.50            | 40.01                   | 48.55                       | 71.58             |
|      | 64QAM  | 2112.50+2117.50+2130.00                           | 47.85                   | 2177.50            | 39.86                   | 48.49                       | 70.58             |
|      | 256QAM | 2112.50+2117.50+2130.00                           | 47.93                   | 2177.50            | 39.96                   | 48.57                       | 72.01             |
| 1    | QPSK   | 2112.50+2117.50+2130.00                           | 47.81                   | 2177.50            | 39.96                   | 48.47                       | 70.38             |
|      | 16QAM  | 2112.50+2117.50+2130.00                           | 47.80                   | 2177.50            | 39.98                   | 48.46                       | 70.16             |
|      | 64QAM  | 2112.50+2117.50+2130.00                           | 47.82                   | 2177.50            | 39.90                   | 48.47                       | 70.30             |
|      | 256QAM | 2112.50+2117.50+2130.00                           | 47.79                   | 2177.50            | 39.94                   | 48.45                       | 70.00             |

#### Sum Data of Port 0 and Port 1

| Frequency (MHz)                 | Output Power(Conducted) |        |        |        |
|---------------------------------|-------------------------|--------|--------|--------|
|                                 | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                 | W                       |        |        |        |
| 2112.50+2117.50+2130.00+2177.50 | 141.47                  | 141.75 | 140.88 | 142.02 |

(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C)

| Ant. | Mod    | B66 LTE 5 MHz      |                         | B66 LTE 20 MHz + B66 LTE 10 MHz<br>+ B66 LTE 5 MHz |                            | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|----------------------------------------------------|----------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)                                 | Measured<br>Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50            | 39.59                   | 2155.00 + 2170.00 + 2177.50                        | 47.85                      | 48.46                       | 70.07             |
|      | 16QAM  | 2112.50            | 39.65                   | 2155.00 + 2170.00 + 2177.50                        | 47.90                      | 48.51                       | 70.88             |
|      | 64QAM  | 2112.50            | 39.51                   | 2155.00 + 2170.00 + 2177.50                        | 47.84                      | 48.44                       | 69.80             |
|      | 256QAM | 2112.50            | 39.52                   | 2155.00 + 2170.00 + 2177.50                        | 47.85                      | 48.44                       | 69.86             |
| 1    | QPSK   | 2112.50            | 39.78                   | 2155.00 + 2170.00 + 2177.50                        | 48.04                      | 48.65                       | 73.20             |
|      | 16QAM  | 2112.50            | 39.62                   | 2155.00 + 2170.00 + 2177.50                        | 48.06                      | 48.64                       | 73.07             |
|      | 64QAM  | 2112.50            | 39.77                   | 2155.00 + 2170.00 + 2177.50                        | 48.04                      | 48.65                       | 73.23             |
|      | 256QAM | 2112.50            | 39.69                   | 2155.00 + 2170.00 + 2177.50                        | 48.03                      | 48.62                       | 72.79             |

#### Sum Data of Port 0 and Port 1

| Frequency (MHz)                       | Output Power(Conducted) |        |        |        |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                       | W                       |        |        |        |
| 2112.50 + 2155.00 + 2170.00 + 2177.50 | 143.28                  | 143.96 | 143.04 | 142.66 |



(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C)

| Ant. | Mod    | B66 LTE 5 MHz + B66 LTE 10 MHz<br>+ B66 LTE 20 MHz |                         | B66 LTE 5 MHz      |                         | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|----------------------------------------------------|-------------------------|--------------------|-------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz)                                 | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50 + 2120.00 + 2135.00                        | 48.02                   | 2177.50            | 39.46                   | 48.59                       | 72.20             |
|      | 16QAM  | 2112.50 + 2120.00 + 2135.00                        | 48.06                   | 2177.50            | 39.52                   | 48.63                       | 72.95             |
|      | 64QAM  | 2112.50 + 2120.00 + 2135.00                        | 48.07                   | 2177.50            | 39.54                   | 48.64                       | 73.11             |
|      | 256QAM | 2112.50 + 2120.00 + 2135.00                        | 48.07                   | 2177.50            | 39.50                   | 48.63                       | 72.95             |
| 1    | QPSK   | 2112.50 + 2120.00 + 2135.00                        | 48.01                   | 2177.50            | 39.55                   | 48.59                       | 72.30             |
|      | 16QAM  | 2112.50 + 2120.00 + 2135.00                        | 48.06                   | 2177.50            | 39.62                   | 48.64                       | 73.11             |
|      | 64QAM  | 2112.50 + 2120.00 + 2135.00                        | 48.04                   | 2177.50            | 39.58                   | 48.62                       | 72.80             |
|      | 256QAM | 2112.50 + 2120.00 + 2135.00                        | 47.98                   | 2177.50            | 39.49                   | 48.56                       | 71.74             |

#### Sum Data of Port 0 and Port 1

| Frequency (MHz)                       | Output Power(Conducted) |        |        |        |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                       | W                       |        |        |        |
| 2112.50 + 2120.00 + 2135.00 + 2177.50 | 144.50                  | 146.06 | 145.92 | 144.70 |

(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]  
(1C+3C)

| Ant. | Mod    | B66 LTE 5 MHz      |                         | B66 LTE 5 MHz + B66 LTE 5 MHz<br>+ B66 LTE 5 MHz |                         | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|--------------------------------------------------|-------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)                               | Measured Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50            | 41.44                   | 2167.50 + 2172.50 + 2177.50                      | 45.99                   | 47.30                       | 53.68             |
|      | 16QAM  | 2112.50            | 41.39                   | 2167.50 + 2172.50 + 2177.50                      | 45.96                   | 47.26                       | 53.20             |
|      | 64QAM  | 2112.50            | 41.43                   | 2167.50 + 2172.50 + 2177.50                      | 46.02                   | 47.32                       | 53.90             |
|      | 256QAM | 2112.50            | 41.41                   | 2167.50 + 2172.50 + 2177.50                      | 45.99                   | 47.29                       | 53.55             |
| 1    | QPSK   | 2112.50            | 41.48                   | 2167.50 + 2172.50 + 2177.50                      | 46.09                   | 47.38                       | 54.75             |
|      | 16QAM  | 2112.50            | 41.48                   | 2167.50 + 2172.50 + 2177.50                      | 46.11                   | 47.40                       | 54.92             |
|      | 64QAM  | 2112.50            | 41.47                   | 2167.50 + 2172.50 + 2177.50                      | 46.12                   | 47.40                       | 54.91             |
|      | 256QAM | 2112.50            | 41.47                   | 2167.50 + 2172.50 + 2177.50                      | 46.17                   | 47.44                       | 55.42             |
| 2    | QPSK   | 2112.50            | 41.53                   | 2167.50 + 2172.50 + 2177.50                      | 46.13                   | 47.42                       | 55.27             |
|      | 16QAM  | 2112.50            | 41.58                   | 2167.50 + 2172.50 + 2177.50                      | 46.07                   | 47.39                       | 54.82             |
|      | 64QAM  | 2112.50            | 41.52                   | 2167.50 + 2172.50 + 2177.50                      | 46.11                   | 47.41                       | 55.04             |
|      | 256QAM | 2112.50            | 41.48                   | 2167.50 + 2172.50 + 2177.50                      | 46.12                   | 47.41                       | 55.03             |
| 3    | QPSK   | 2112.50            | 41.43                   | 2167.50 + 2172.50 + 2177.50                      | 46.13                   | 47.40                       | 54.90             |
|      | 16QAM  | 2112.50            | 41.36                   | 2167.50 + 2172.50 + 2177.50                      | 46.06                   | 47.32                       | 53.99             |
|      | 64QAM  | 2112.50            | 41.47                   | 2167.50 + 2172.50 + 2177.50                      | 46.02                   | 47.33                       | 54.02             |
|      | 256QAM | 2112.50            | 41.45                   | 2167.50 + 2172.50 + 2177.50                      | 46.09                   | 47.38                       | 54.65             |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz)                       | Output Power(Conducted) |        |        |        |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                       | W                       |        |        |        |
| 2112.50 + 2167.50 + 2172.50 + 2177.50 | 218.60                  | 216.93 | 217.87 | 218.65 |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]  
(3C+1C)**

| Ant. | Mod    | B66 LTE 5 MHz + B66 LTE 5 MHz<br>+ B66 LTE 5 MHz |                         | B66 LTE 5 MHz      |                         | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------------------------------------|-------------------------|--------------------|-------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz)                               | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50 + 2117.50 + 2122.50                      | 46.13                   | 2177.50            | 41.25                   | 47.35                       | 54.34             |
|      | 16QAM  | 2112.50 + 2117.50 + 2122.50                      | 46.20                   | 2177.50            | 41.38                   | 47.44                       | 55.41             |
|      | 64QAM  | 2112.50 + 2117.50 + 2122.50                      | 46.17                   | 2177.50            | 41.25                   | 47.38                       | 54.70             |
|      | 256QAM | 2112.50 + 2117.50 + 2122.50                      | 46.19                   | 2177.50            | 41.30                   | 47.41                       | 55.08             |
| 1    | QPSK   | 2112.50 + 2117.50 + 2122.50                      | 46.28                   | 2177.50            | 41.34                   | 47.48                       | 56.03             |
|      | 16QAM  | 2112.50 + 2117.50 + 2122.50                      | 46.21                   | 2177.50            | 41.31                   | 47.43                       | 55.29             |
|      | 64QAM  | 2112.50 + 2117.50 + 2122.50                      | 46.19                   | 2177.50            | 41.33                   | 47.42                       | 55.18             |
|      | 256QAM | 2112.50 + 2117.50 + 2122.50                      | 46.12                   | 2177.50            | 41.29                   | 47.36                       | 54.39             |
| 2    | QPSK   | 2112.50 + 2117.50 + 2122.50                      | 46.38                   | 2177.50            | 41.36                   | 47.57                       | 57.16             |
|      | 16QAM  | 2112.50 + 2117.50 + 2122.50                      | 46.33                   | 2177.50            | 41.27                   | 47.51                       | 56.37             |
|      | 64QAM  | 2112.50 + 2117.50 + 2122.50                      | 46.31                   | 2177.50            | 41.34                   | 47.51                       | 56.31             |
|      | 256QAM | 2112.50 + 2117.50 + 2122.50                      | 46.36                   | 2177.50            | 41.33                   | 47.54                       | 56.79             |
| 3    | QPSK   | 2112.50 + 2117.50 + 2122.50                      | 46.17                   | 2177.50            | 41.42                   | 47.42                       | 55.23             |
|      | 16QAM  | 2112.50 + 2117.50 + 2122.50                      | 46.16                   | 2177.50            | 41.29                   | 47.39                       | 54.77             |
|      | 64QAM  | 2112.50 + 2117.50 + 2122.50                      | 46.18                   | 2177.50            | 41.32                   | 47.41                       | 55.04             |
|      | 256QAM | 2112.50 + 2117.50 + 2122.50                      | 46.15                   | 2177.50            | 41.33                   | 47.39                       | 54.84             |

**Sum Data of Port 0, Port 1, Port 2 and Port 3**

| Frequency (MHz)                       | Output Power(Conducted) |        |        |        |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                       | W                       |        |        |        |
| 2112.50 + 2117.50 + 2122.50 + 2177.50 | 222.77                  | 221.84 | 221.23 | 221.11 |

(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]  
(1C+3C)

| Ant. | Mod    | B66 LTE 5 MHz      |                         | B66 LTE 20 MHz + B66 LTE 5 MHz<br>+ B66 LTE 5 MHz |                         | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|---------------------------------------------------|-------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)                                | Measured Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50            | 38.82                   | 2160.00 + 2172.50 + 2177.50                       | 46.46                   | 47.15                       | 51.93             |
|      | 16QAM  | 2112.50            | 38.88                   | 2160.00 + 2172.50 + 2177.50                       | 46.53                   | 47.22                       | 52.71             |
|      | 64QAM  | 2112.50            | 38.92                   | 2160.00 + 2172.50 + 2177.50                       | 46.51                   | 47.20                       | 52.53             |
|      | 256QAM | 2112.50            | 38.92                   | 2160.00 + 2172.50 + 2177.50                       | 46.54                   | 47.23                       | 52.84             |
| 1    | QPSK   | 2112.50            | 38.92                   | 2160.00 + 2172.50 + 2177.50                       | 46.64                   | 47.32                       | 53.92             |
|      | 16QAM  | 2112.50            | 38.96                   | 2160.00 + 2172.50 + 2177.50                       | 46.66                   | 47.34                       | 54.23             |
|      | 64QAM  | 2112.50            | 38.96                   | 2160.00 + 2172.50 + 2177.50                       | 46.68                   | 47.36                       | 54.47             |
|      | 256QAM | 2112.50            | 39.06                   | 2160.00 + 2172.50 + 2177.50                       | 46.70                   | 47.39                       | 54.78             |
| 2    | QPSK   | 2112.50            | 39.19                   | 2160.00 + 2172.50 + 2177.50                       | 46.80                   | 47.49                       | 56.10             |
|      | 16QAM  | 2112.50            | 39.07                   | 2160.00 + 2172.50 + 2177.50                       | 46.74                   | 47.42                       | 55.26             |
|      | 64QAM  | 2112.50            | 39.13                   | 2160.00 + 2172.50 + 2177.50                       | 46.79                   | 47.48                       | 55.95             |
|      | 256QAM | 2112.50            | 39.17                   | 2160.00 + 2172.50 + 2177.50                       | 46.87                   | 47.55                       | 56.88             |
| 3    | QPSK   | 2112.50            | 38.97                   | 2160.00 + 2172.50 + 2177.50                       | 46.78                   | 47.44                       | 55.53             |
|      | 16QAM  | 2112.50            | 38.91                   | 2160.00 + 2172.50 + 2177.50                       | 46.71                   | 47.38                       | 54.65             |
|      | 64QAM  | 2112.50            | 39.04                   | 2160.00 + 2172.50 + 2177.50                       | 46.75                   | 47.43                       | 55.28             |
|      | 256QAM | 2112.50            | 39.00                   | 2160.00 + 2172.50 + 2177.50                       | 46.77                   | 47.45                       | 55.53             |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz)                       | Output Power(Conducted) |        |        |        |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                       | W                       |        |        |        |
| 2112.50 + 2160.00 + 2172.50 + 2177.50 | 217.48                  | 216.86 | 218.23 | 220.04 |

(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]  
(3C+1C)

| Ant. | Mod    | B66 LTE 5 MHz + B66 LTE 5 MHz<br>+ B66 LTE 20 MHz |                         | B66 LTE 5 MHz      |                         | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|---------------------------------------------------|-------------------------|--------------------|-------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz)                                | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50 + 2117.50 + 2130.00                       | 46.68                   | 2177.50            | 38.78                   | 47.33                       | 54.13             |
|      | 16QAM  | 2112.50 + 2117.50 + 2130.00                       | 46.71                   | 2177.50            | 38.82                   | 47.37                       | 54.52             |
|      | 64QAM  | 2112.50 + 2117.50 + 2130.00                       | 46.73                   | 2177.50            | 38.81                   | 47.38                       | 54.73             |
|      | 256QAM | 2112.50 + 2117.50 + 2130.00                       | 46.70                   | 2177.50            | 38.84                   | 47.36                       | 54.42             |
| 1    | QPSK   | 2112.50 + 2117.50 + 2130.00                       | 46.59                   | 2177.50            | 38.80                   | 47.26                       | 53.21             |
|      | 16QAM  | 2112.50 + 2117.50 + 2130.00                       | 46.61                   | 2177.50            | 38.78                   | 47.28                       | 53.40             |
|      | 64QAM  | 2112.50 + 2117.50 + 2130.00                       | 46.62                   | 2177.50            | 38.85                   | 47.29                       | 53.55             |
|      | 256QAM | 2112.50 + 2117.50 + 2130.00                       | 46.63                   | 2177.50            | 38.79                   | 47.29                       | 53.60             |
| 2    | QPSK   | 2112.50 + 2117.50 + 2130.00                       | 46.91                   | 2177.50            | 38.91                   | 47.55                       | 56.84             |
|      | 16QAM  | 2112.50 + 2117.50 + 2130.00                       | 46.94                   | 2177.50            | 38.85                   | 47.57                       | 57.14             |
|      | 64QAM  | 2112.50 + 2117.50 + 2130.00                       | 46.93                   | 2177.50            | 38.90                   | 47.56                       | 57.06             |
|      | 256QAM | 2112.50 + 2117.50 + 2130.00                       | 46.92                   | 2177.50            | 38.98                   | 47.56                       | 57.08             |
| 3    | QPSK   | 2112.50 + 2117.50 + 2130.00                       | 46.70                   | 2177.50            | 38.90                   | 47.36                       | 54.48             |
|      | 16QAM  | 2112.50 + 2117.50 + 2130.00                       | 46.71                   | 2177.50            | 38.87                   | 47.37                       | 54.61             |
|      | 64QAM  | 2112.50 + 2117.50 + 2130.00                       | 46.69                   | 2177.50            | 38.89                   | 47.36                       | 54.45             |
|      | 256QAM | 2112.50 + 2117.50 + 2130.00                       | 46.66                   | 2177.50            | 38.83                   | 47.32                       | 54.00             |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz)                       | Output Power(Conducted) |        |        |        |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                       | W                       |        |        |        |
| 2112.50 + 2117.50 + 2130.00 + 2177.50 | 218.67                  | 219.67 | 219.79 | 219.10 |

(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C)

| Ant. | Mod    | B66 LTE 5 MHz      |                         | B66 LTE 20 MHz + B66 LTE 10 MHz<br>+ B66 LTE 5 MHz |                         | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|--------------------|-------------------------|----------------------------------------------------|-------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz) | Measured Value<br>(dBm) | Frequency<br>(MHz)                                 | Measured Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50            | 38.24                   | 2155.00 + 2170.00 + 2177.50                        | 46.49                   | 47.10                       | 51.26             |
|      | 16QAM  | 2112.50            | 38.25                   | 2155.00 + 2170.00 + 2177.50                        | 46.55                   | 47.15                       | 51.83             |
|      | 64QAM  | 2112.50            | 38.26                   | 2155.00 + 2170.00 + 2177.50                        | 46.55                   | 47.15                       | 51.89             |
|      | 256QAM | 2112.50            | 38.22                   | 2155.00 + 2170.00 + 2177.50                        | 46.51                   | 47.11                       | 51.46             |
| 1    | QPSK   | 2112.50            | 38.37                   | 2155.00 + 2170.00 + 2177.50                        | 46.66                   | 47.26                       | 53.17             |
|      | 16QAM  | 2112.50            | 38.37                   | 2155.00 + 2170.00 + 2177.50                        | 46.67                   | 47.27                       | 53.35             |
|      | 64QAM  | 2112.50            | 38.34                   | 2155.00 + 2170.00 + 2177.50                        | 46.67                   | 47.26                       | 53.24             |
|      | 256QAM | 2112.50            | 38.28                   | 2155.00 + 2170.00 + 2177.50                        | 46.66                   | 47.25                       | 53.11             |
| 2    | QPSK   | 2112.50            | 38.49                   | 2155.00 + 2170.00 + 2177.50                        | 46.83                   | 47.43                       | 55.30             |
|      | 16QAM  | 2112.50            | 38.48                   | 2155.00 + 2170.00 + 2177.50                        | 46.80                   | 47.40                       | 54.96             |
|      | 64QAM  | 2112.50            | 38.53                   | 2155.00 + 2170.00 + 2177.50                        | 46.80                   | 47.41                       | 55.04             |
|      | 256QAM | 2112.50            | 38.46                   | 2155.00 + 2170.00 + 2177.50                        | 46.82                   | 47.41                       | 55.05             |
| 3    | QPSK   | 2112.50            | 38.40                   | 2155.00 + 2170.00 + 2177.50                        | 46.81                   | 47.40                       | 54.95             |
|      | 16QAM  | 2112.50            | 38.37                   | 2155.00 + 2170.00 + 2177.50                        | 46.78                   | 47.37                       | 54.55             |
|      | 64QAM  | 2112.50            | 38.42                   | 2155.00 + 2170.00 + 2177.50                        | 46.75                   | 47.34                       | 54.25             |
|      | 256QAM | 2112.50            | 38.35                   | 2155.00 + 2170.00 + 2177.50                        | 46.75                   | 47.34                       | 54.18             |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz)                       | Output Power(Conducted) |        |        |        |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                       | W                       |        |        |        |
| 2112.50 + 2155.00 + 2170.00 + 2177.50 | 214.68                  | 214.71 | 214.42 | 213.81 |

(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C)

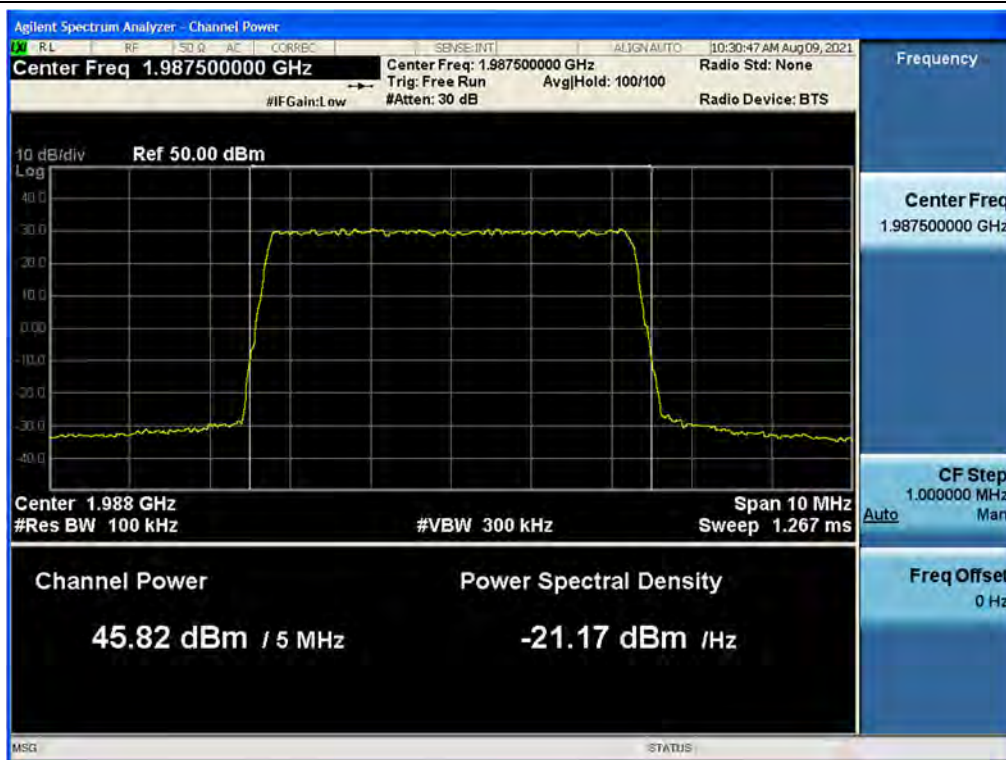
| Ant. | Mod    | B2 LTE 5 MHz + B2 LTE 10 MHz<br>+ B2 LTE 20 MHz |                         | B2 LTE 5 MHz       |                         | Summation<br>Value<br>(dBm) | Calculated<br>(W) |
|------|--------|-------------------------------------------------|-------------------------|--------------------|-------------------------|-----------------------------|-------------------|
|      |        | Frequency<br>(MHz)                              | Measured Value<br>(dBm) | Frequency<br>(MHz) | Measured Value<br>(dBm) |                             |                   |
| 0    | QPSK   | 2112.50 + 2120.00 + 2135.00                     | 46.69                   | 2177.50            | 38.14                   | 47.26                       | 53.21             |
|      | 16QAM  | 2112.50 + 2120.00 + 2135.00                     | 46.70                   | 2177.50            | 38.28                   | 47.28                       | 53.44             |
|      | 64QAM  | 2112.50 + 2120.00 + 2135.00                     | 46.76                   | 2177.50            | 38.26                   | 47.33                       | 54.09             |
|      | 256QAM | 2112.50 + 2120.00 + 2135.00                     | 46.76                   | 2177.50            | 38.19                   | 47.32                       | 54.00             |
| 1    | QPSK   | 2112.50 + 2120.00 + 2135.00                     | 46.63                   | 2177.50            | 38.15                   | 47.21                       | 52.58             |
|      | 16QAM  | 2112.50 + 2120.00 + 2135.00                     | 46.67                   | 2177.50            | 38.14                   | 47.24                       | 52.97             |
|      | 64QAM  | 2112.50 + 2120.00 + 2135.00                     | 46.67                   | 2177.50            | 38.24                   | 47.25                       | 53.08             |
|      | 256QAM | 2112.50 + 2120.00 + 2135.00                     | 46.62                   | 2177.50            | 38.18                   | 47.20                       | 52.53             |
| 2    | QPSK   | 2112.50 + 2120.00 + 2135.00                     | 46.94                   | 2177.50            | 38.29                   | 47.50                       | 56.17             |
|      | 16QAM  | 2112.50 + 2120.00 + 2135.00                     | 46.96                   | 2177.50            | 38.38                   | 47.52                       | 56.49             |
|      | 64QAM  | 2112.50 + 2120.00 + 2135.00                     | 46.92                   | 2177.50            | 38.27                   | 47.47                       | 55.91             |
|      | 256QAM | 2112.50 + 2120.00 + 2135.00                     | 46.94                   | 2177.50            | 38.23                   | 47.49                       | 56.06             |
| 3    | QPSK   | 2112.50 + 2120.00 + 2135.00                     | 46.75                   | 2177.50            | 38.26                   | 47.32                       | 54.00             |
|      | 16QAM  | 2112.50 + 2120.00 + 2135.00                     | 46.76                   | 2177.50            | 38.25                   | 47.34                       | 54.16             |
|      | 64QAM  | 2112.50 + 2120.00 + 2135.00                     | 46.72                   | 2177.50            | 38.25                   | 47.30                       | 53.70             |
|      | 256QAM | 2112.50 + 2120.00 + 2135.00                     | 46.77                   | 2177.50            | 38.27                   | 47.35                       | 54.29             |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz)                       | Output Power(Conducted) |        |        |        |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | QPSK                    | 16QAM  | 64QAM  | 256QAM |
|                                       | W                       |        |        |        |
| 2112.50 + 2120.00 + 2135.00 + 2177.50 | 215.97                  | 217.08 | 216.78 | 216.88 |

## Plot Data of RF Output Power

### Antenna 1 / (2 Port) B2 LTE 5 MHz 1 Carrier / QPSK / High



### Antenna 1 / (2 Port) B2 LTE 10 MHz 1 Carrier / 64QAM / High





## Antenna 1 / (2 Port) B2 LTE 15 MHz 1 Carrier / QPSK / High



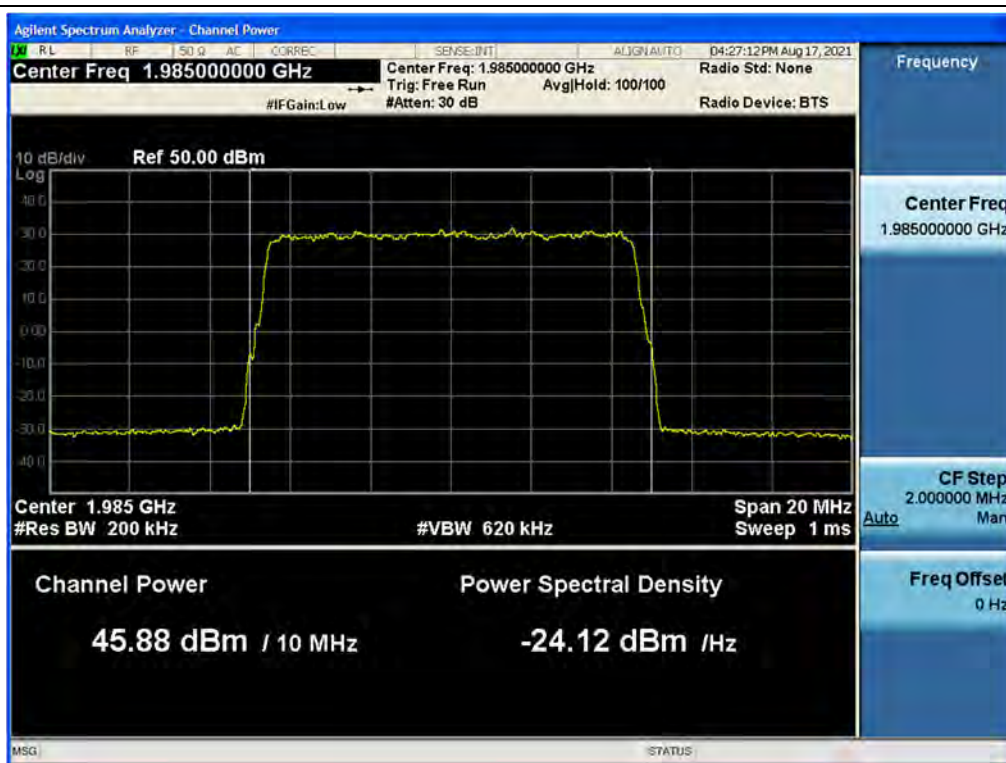
## Antenna 1 / (2 Port) B2 LTE 20 MHz 1 Carrier / 16QAM / High



## Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier / QPSK / High



## Antenna 1 / (4 Port) B2 LTE 10 MHz 1 Carrier / 16QAM / High



## Antenna 1 / (4 Port) B2 LTE 15 MHz 1 Carrier / 16QAM / High

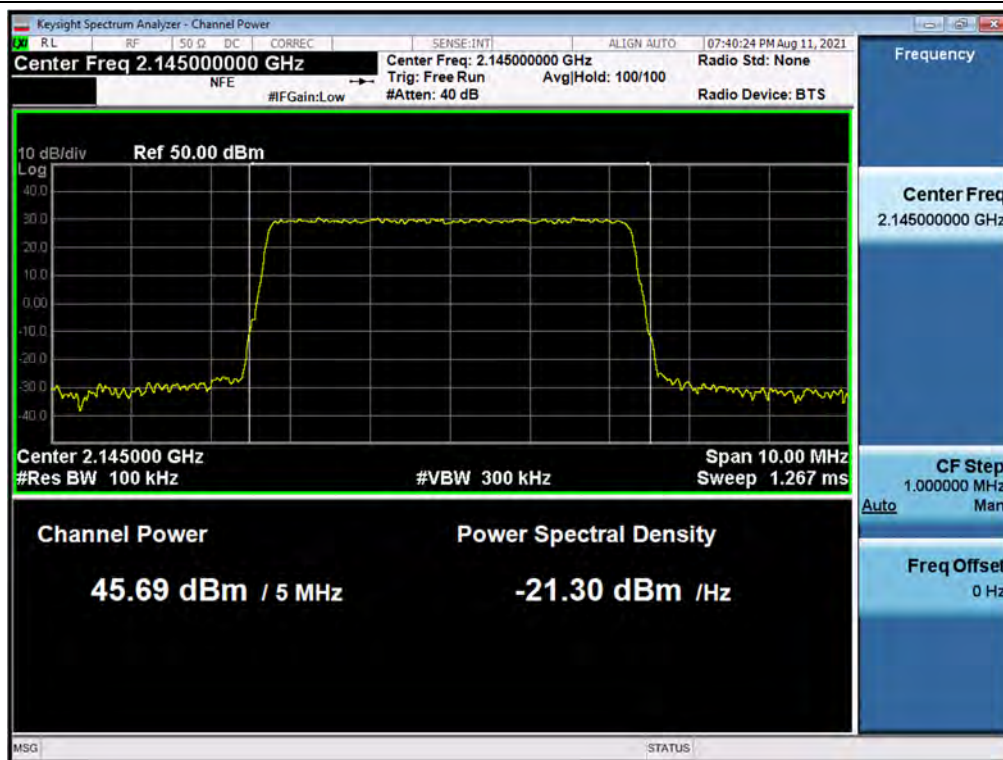


## Antenna 1 / (4 Port) B2 LTE 20 MHz 1 Carrier / QPSK / High

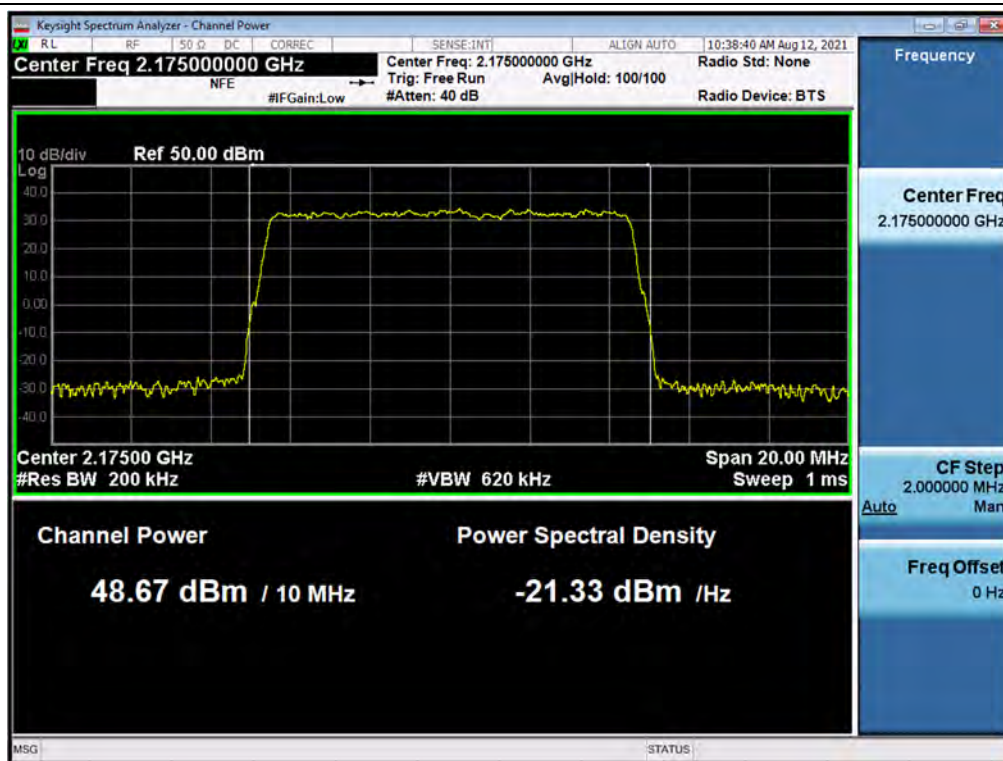




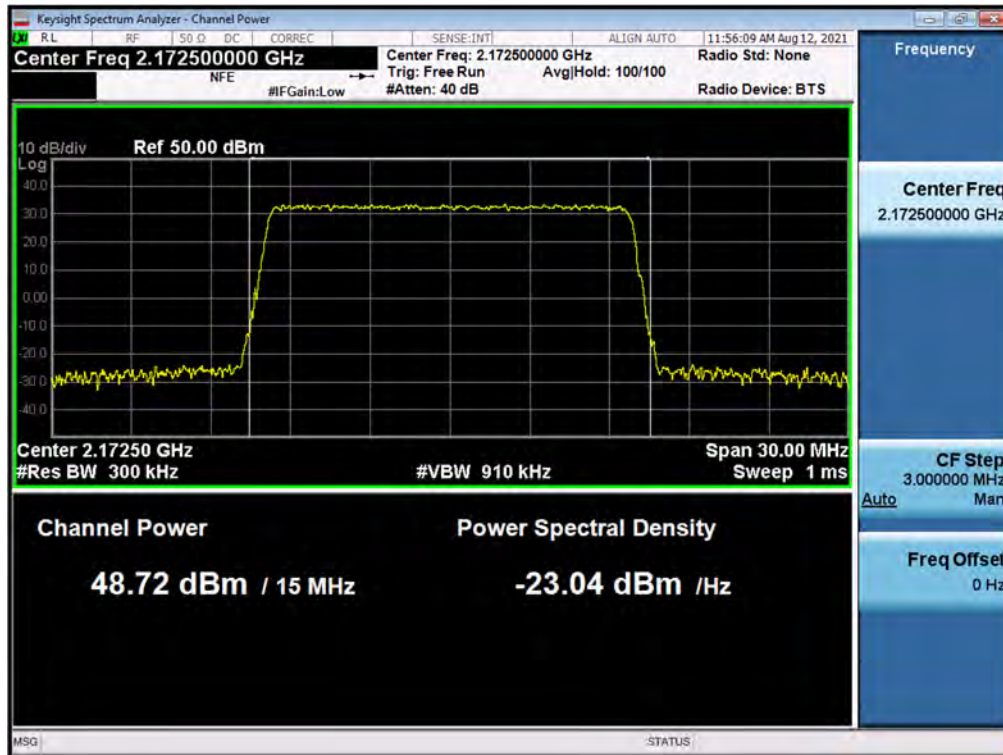
## Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier / QPSK / Middle



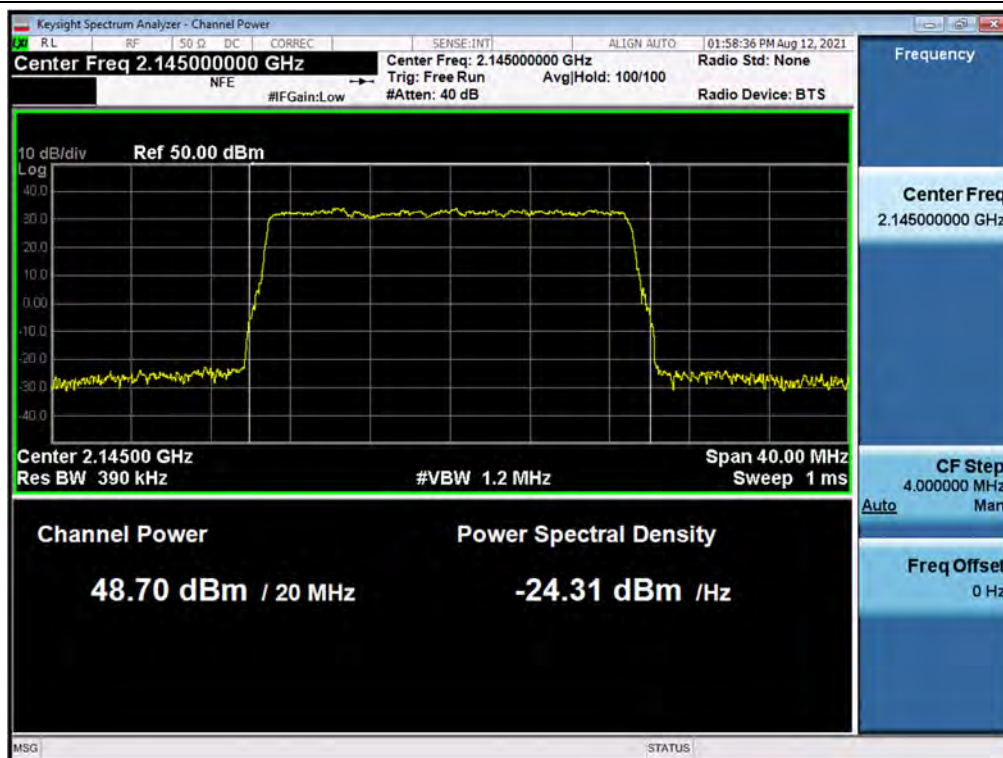
## Antenna 1 / (2 Port) B66 LTE 10 MHz 1 Carrier / 16QAM / High



## Antenna 1 / (2 Port) B66 LTE 15 MHz 1 Carrier / QPSK / High



## Antenna 1 / (2 Port) B66 LTE 20 MHz 1 Carrier / 16QAM / Middle



## Antenna 0 / (4 Port) B66 LTE 5 MHz 1 Carrier / 64QAM / Middle



## Antenna 3 / (4 Port) B66 LTE 10 MHz 1 Carrier / QPSK / Middle

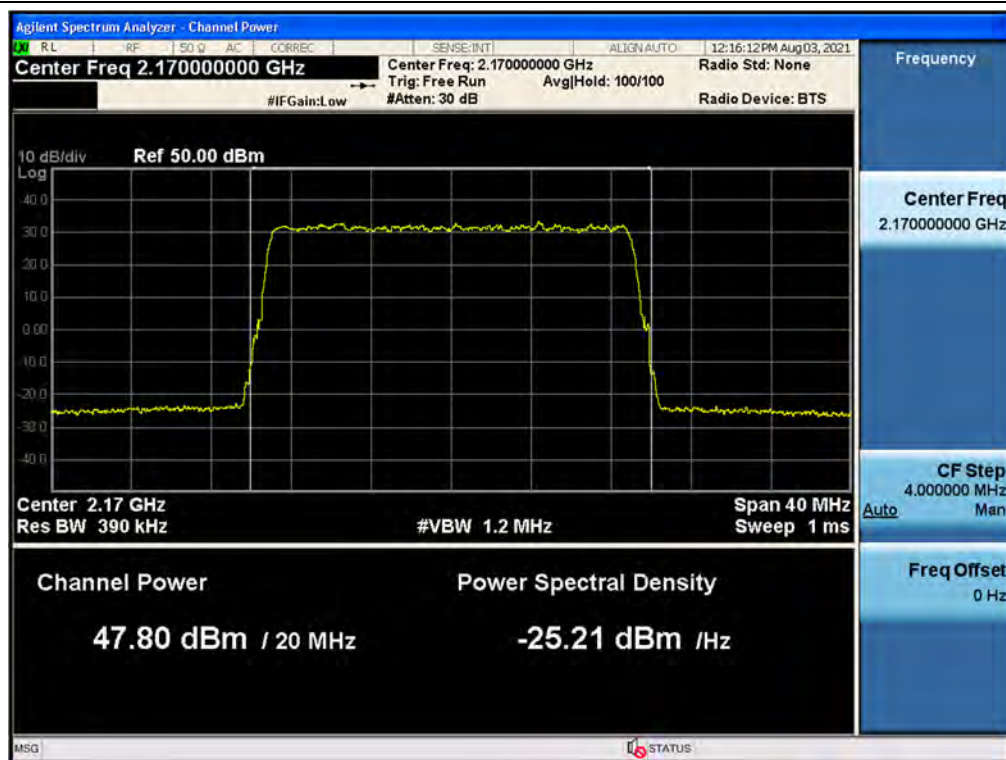




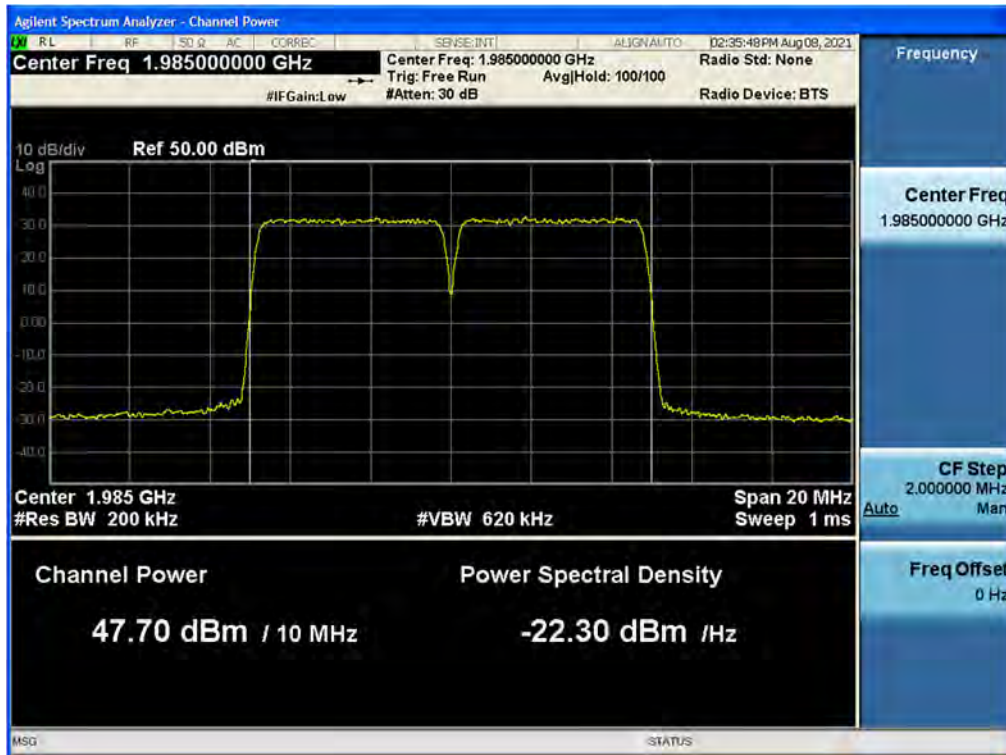
## Antenna 3 / (4 Port) B66 LTE 15 MHz 1 Carrier / 256QAM / Middle



## Antenna 0 / (4 Port) B66 LTE 20 MHz 1 Carrier / 16QAM / High



## Antenna 1 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 64QAM / High



## Antenna 1 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Contiguous / QPSK / High





## Antenna 1 / (2 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / High



## Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 64QAM / High



Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / High



Antenna 1 / (4 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Contiguous / 16QAM / High



## Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 16QAM / High

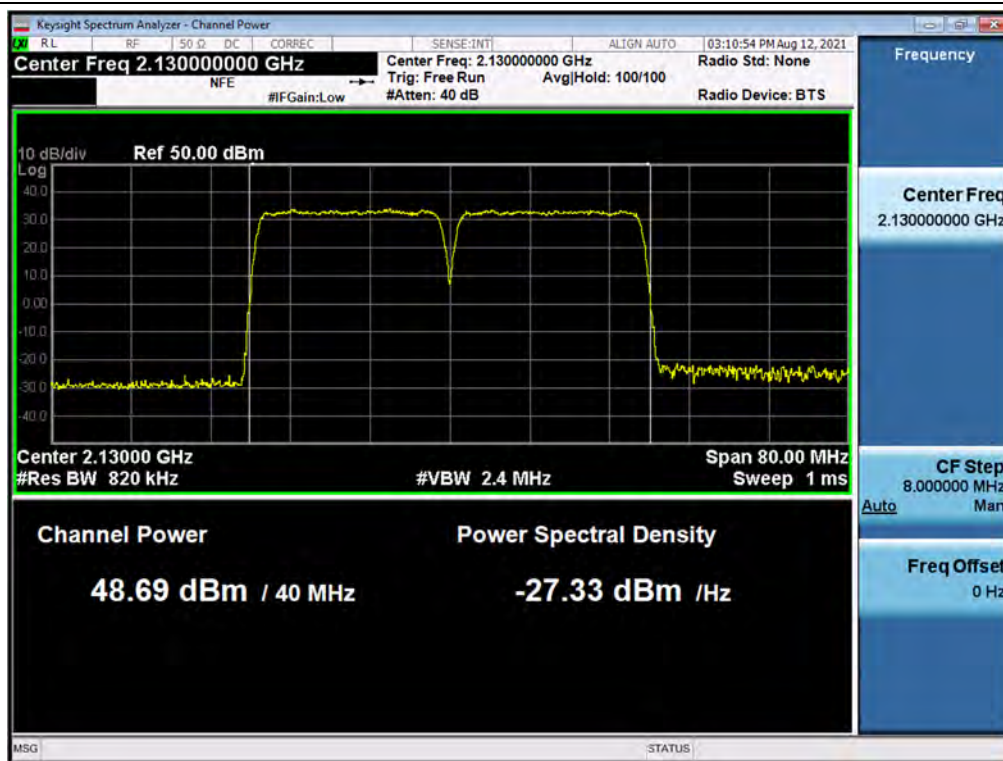


## Antenna 0 / (2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 16QAM / High

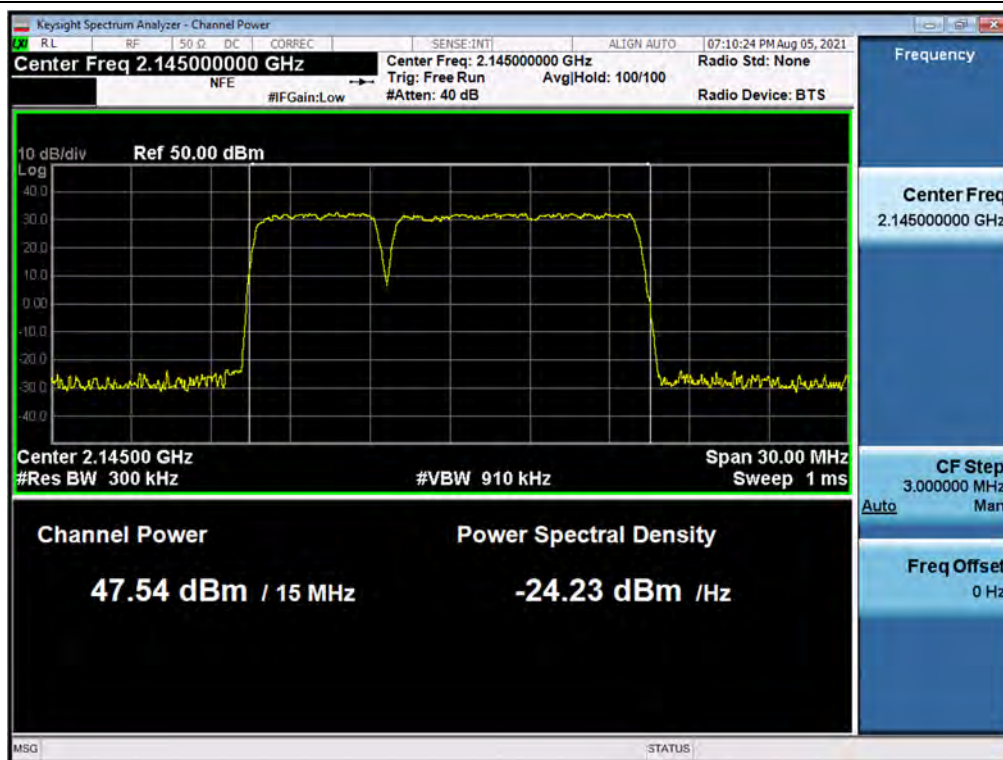




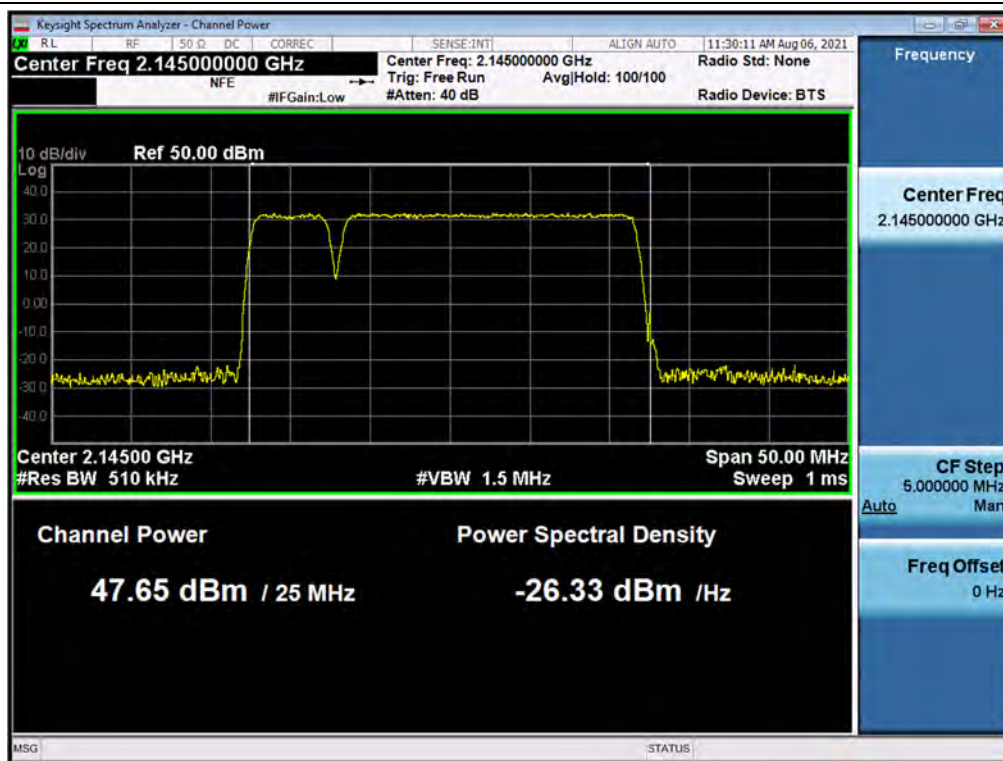
Antenna 1 / (2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier] / Contiguous / 16QAM / Low



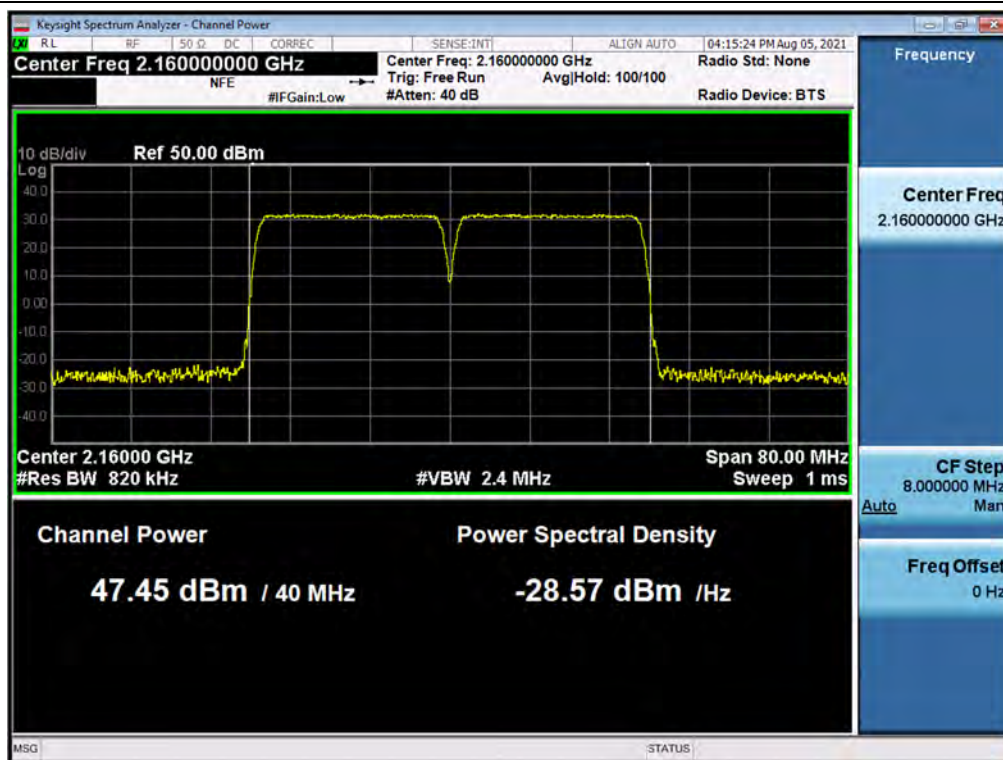
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Contiguous / 16QAM / Middle



Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier] / Contiguous / 64QAM / Middle



Antenna 1 / (4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier] / Contiguous / 64QAM / High



Antenna 1 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] / Contiguous / 16QAM / High

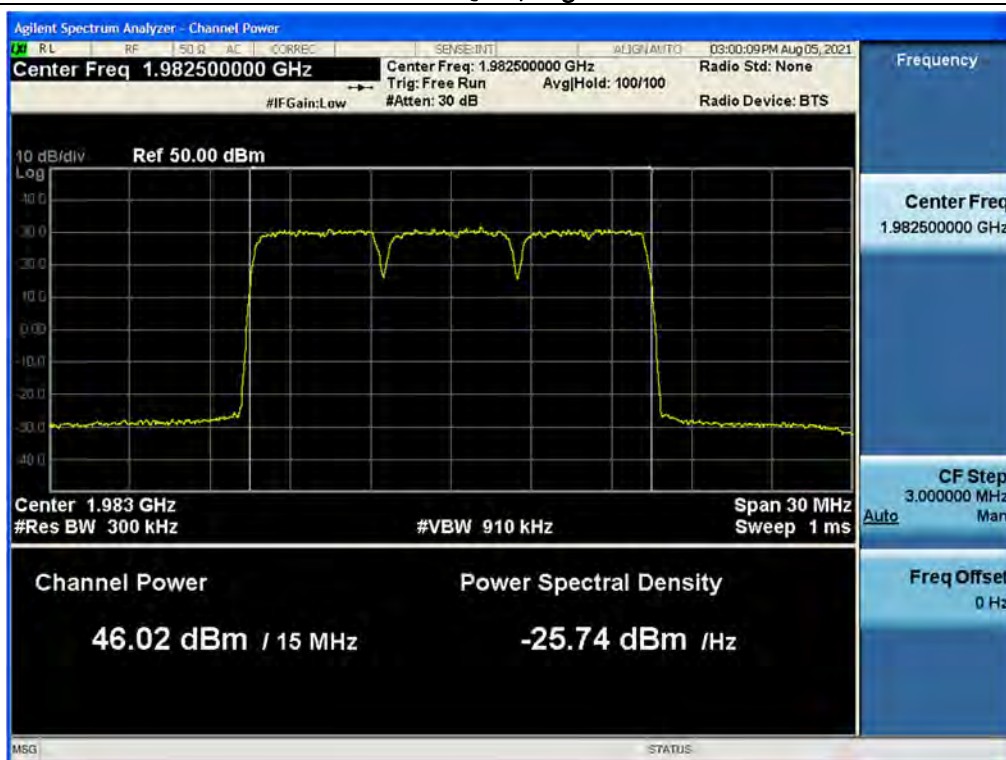


Antenna 1 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [3 Carrier] / Contiguous / 64QAM / High





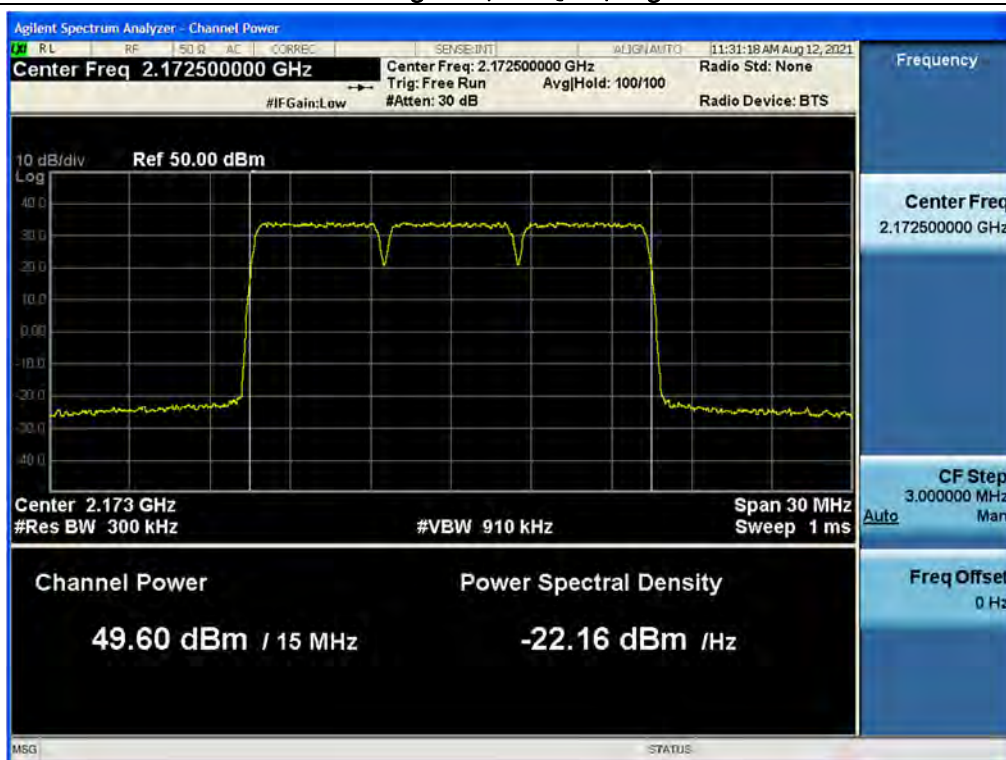
## Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] / Contiguous / 16QAM / High



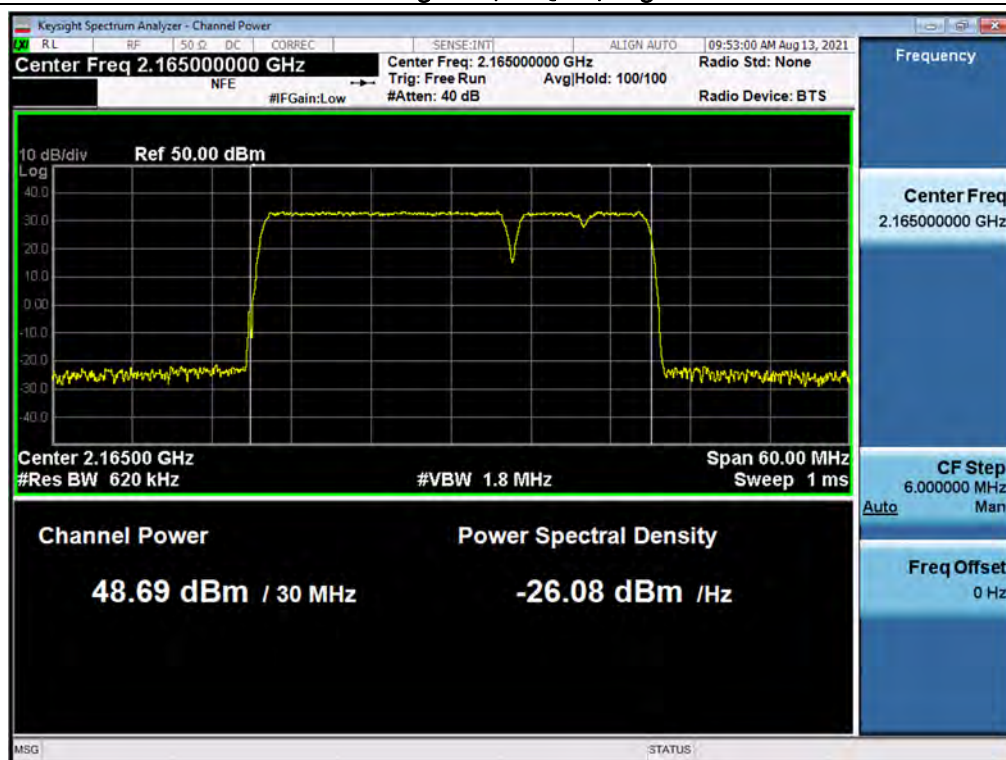
## Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [3 Carrier] / Contiguous / 16QAM / High



Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] /  
Contiguous / 256QAM / High

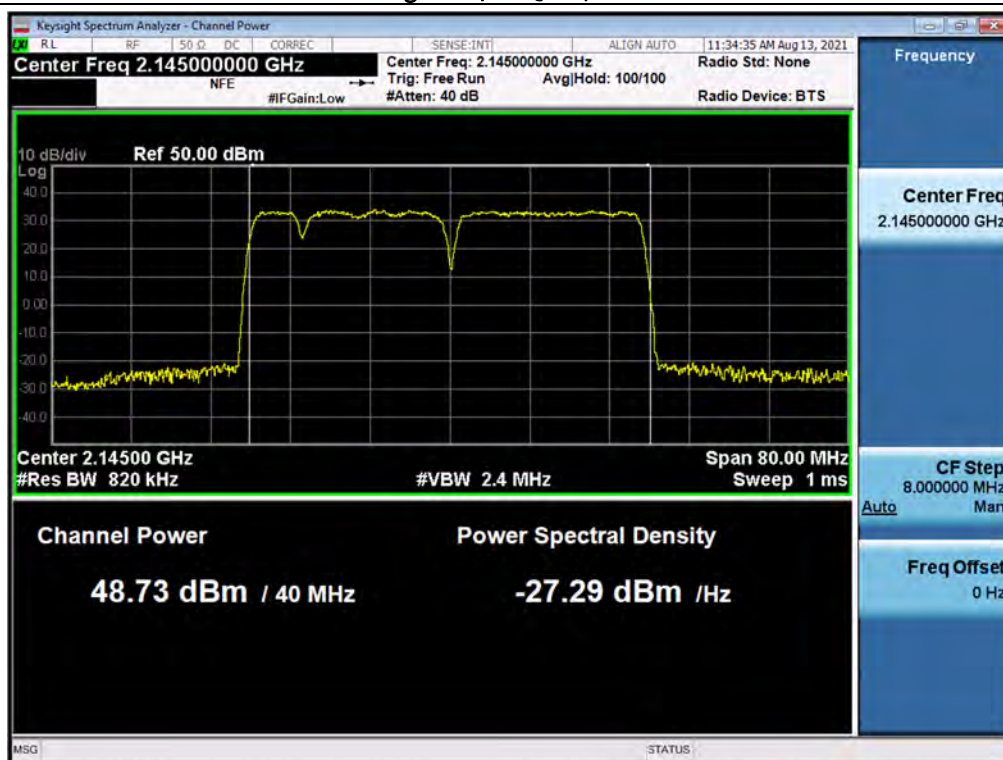


Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [3 Carrier] /  
Contiguous / 64QAM / High

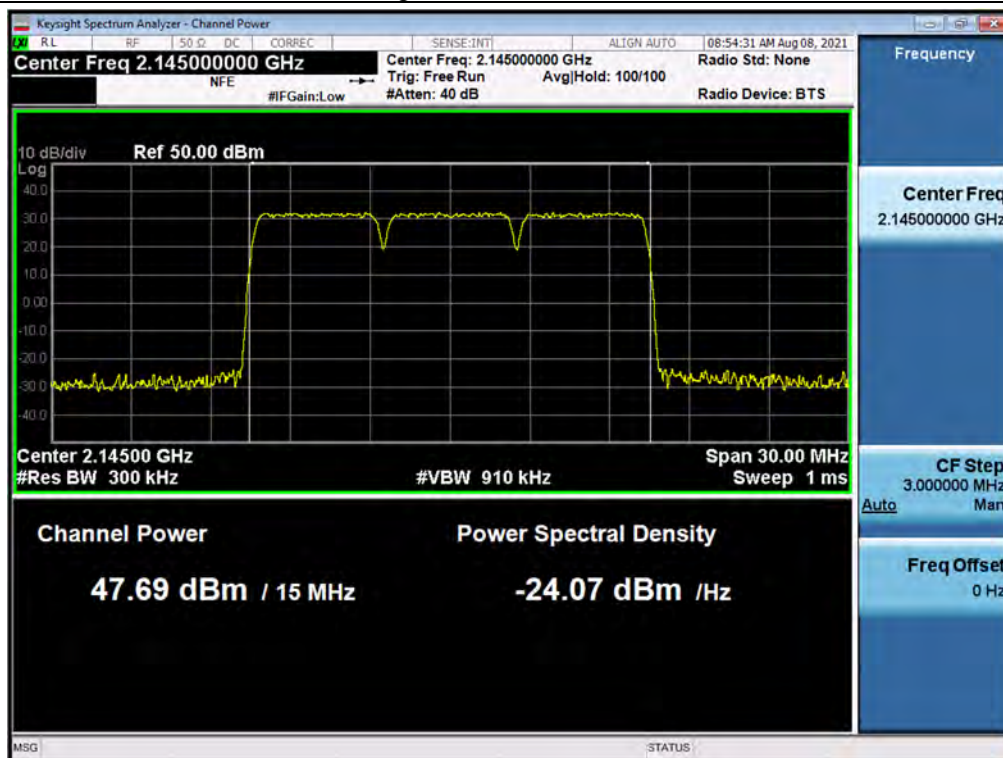




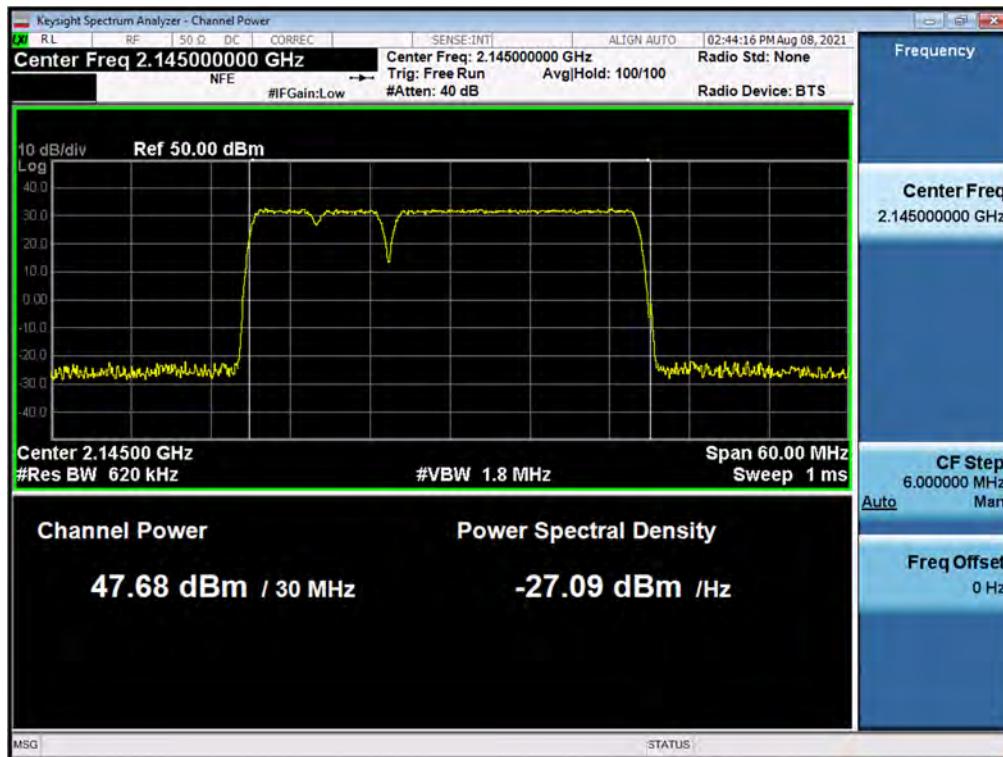
Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [3 Carrier] /  
Contiguous / 16QAM / Middle



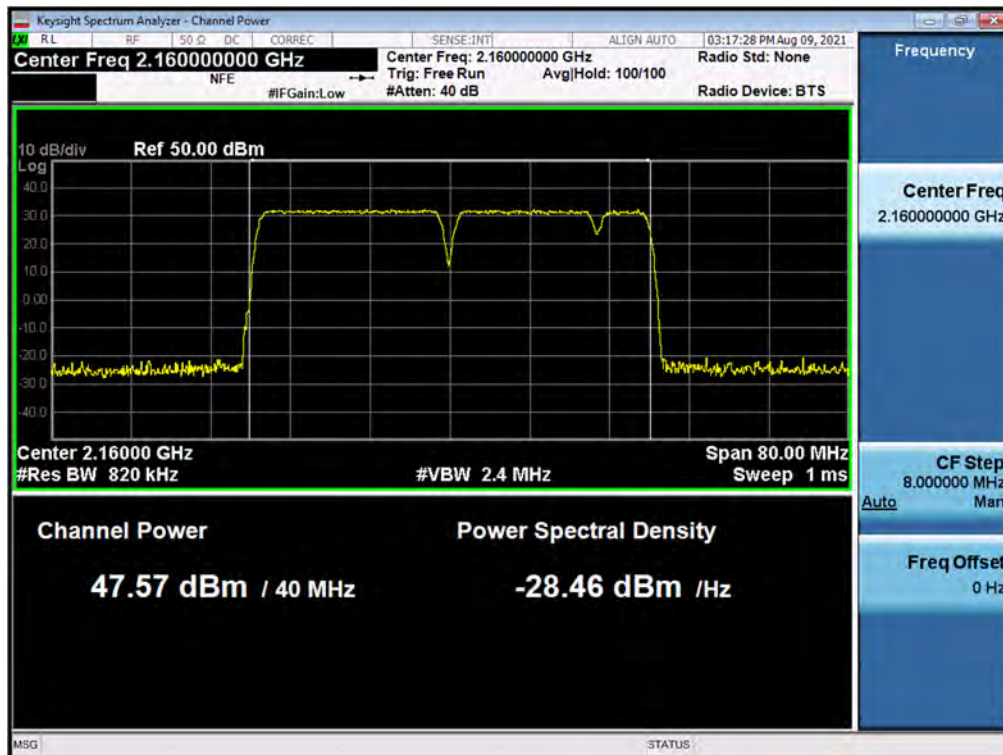
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] /  
Contiguous / 256QAM / Middle



Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [3 Carrier] /  
Contiguous / 64QAM / Middle



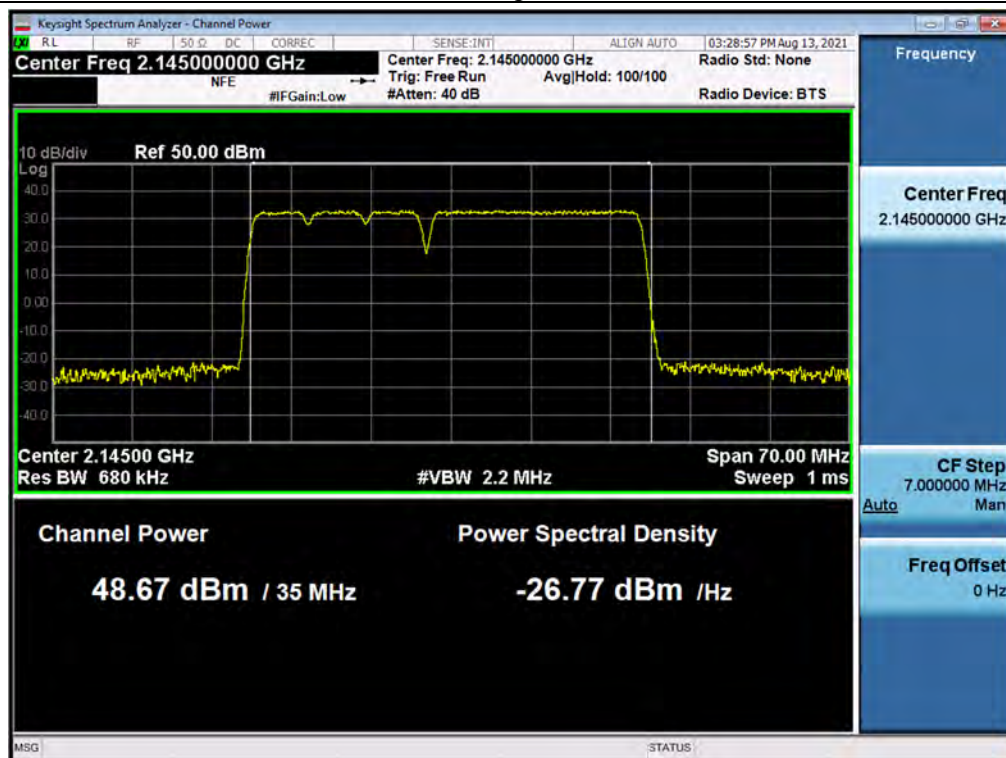
Antenna 2 / (4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 15 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] /  
Contiguous / 64QAM / High



Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] / Contiguous / 16QAM / High

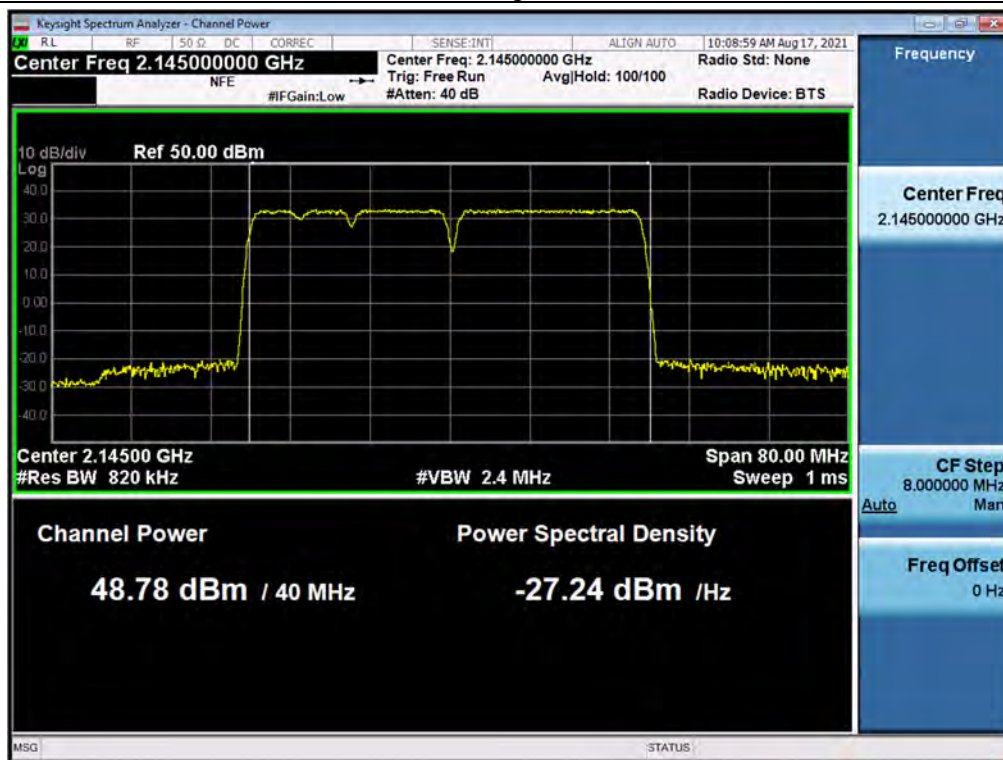


Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] / Contiguous / 256QAM / Middle

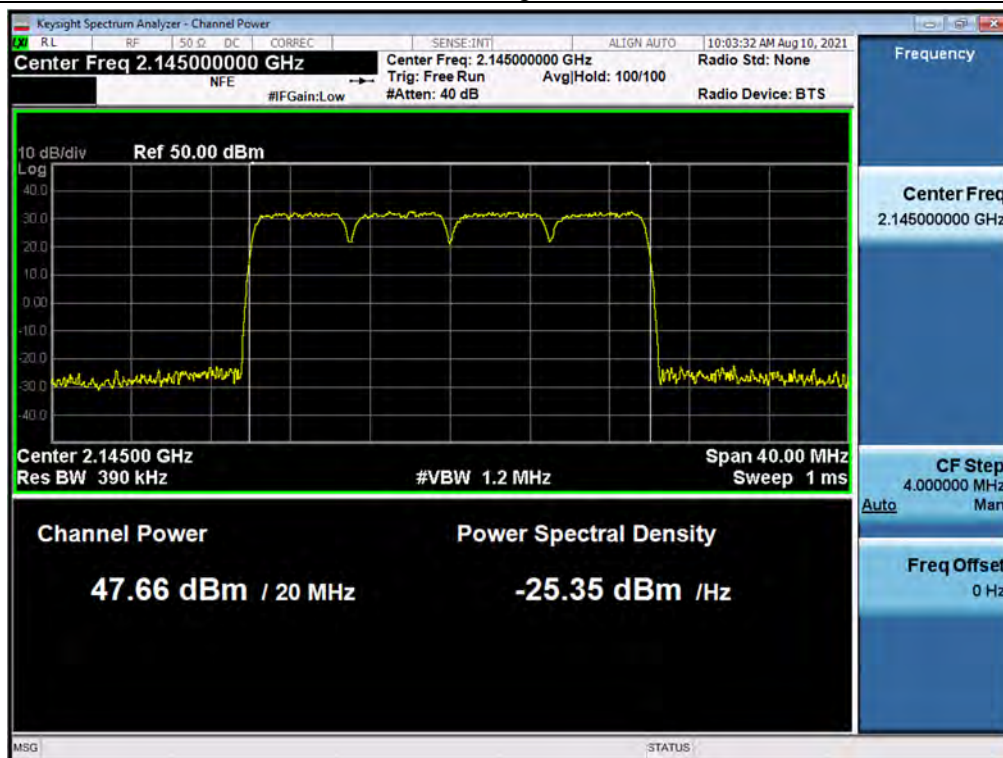




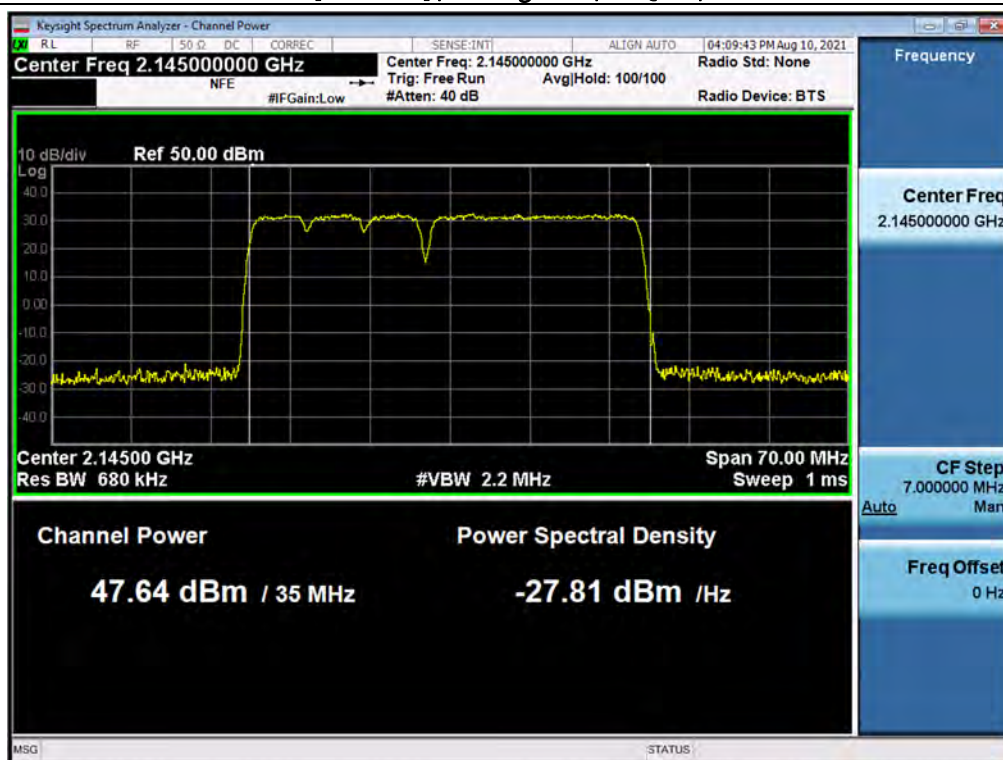
Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] / Contiguous / 256QAM / Middle



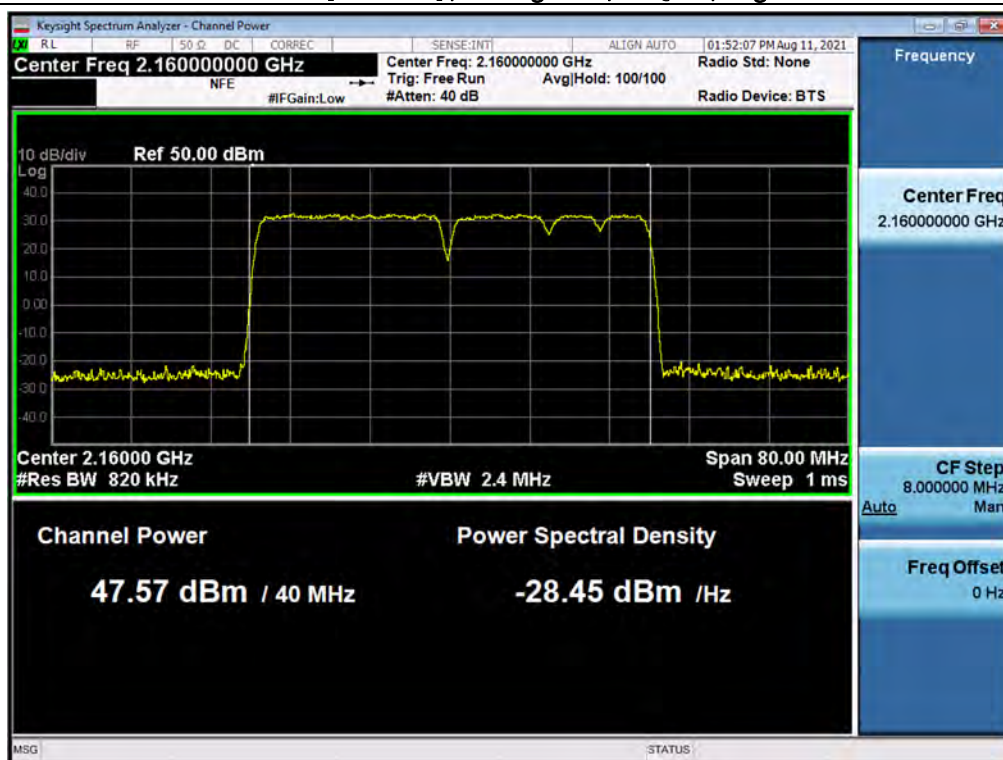
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] / Contiguous / 16QAM / Middle



Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier] / Contiguous / 16QAM / Middle



Antenna 2 / (4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] / Contiguous / 16QAM / High



Antenna 0 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous /  
B2 LTE 5 MHz / 64QAM / Low



Antenna 0 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous /  
B2 LTE 5 MHz / 64QAM / High





## Antenna 0 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B2 LTE 5 MHz / 64QAM / Low



## Antenna 0 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B2 LTE 20 MHz / 64QAM / High



Antenna 0 / (2 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B2 LTE 10 MHz / 64QAM / Low

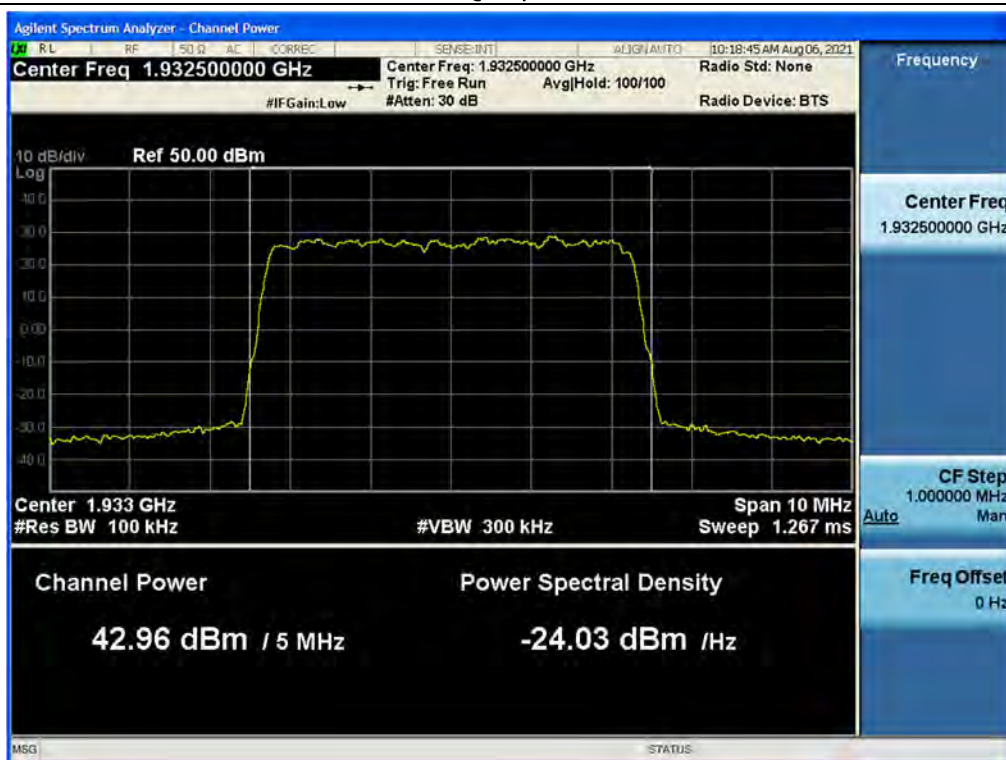


Antenna 0 / (2 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B2 LTE 20 MHz / 64QAM / High

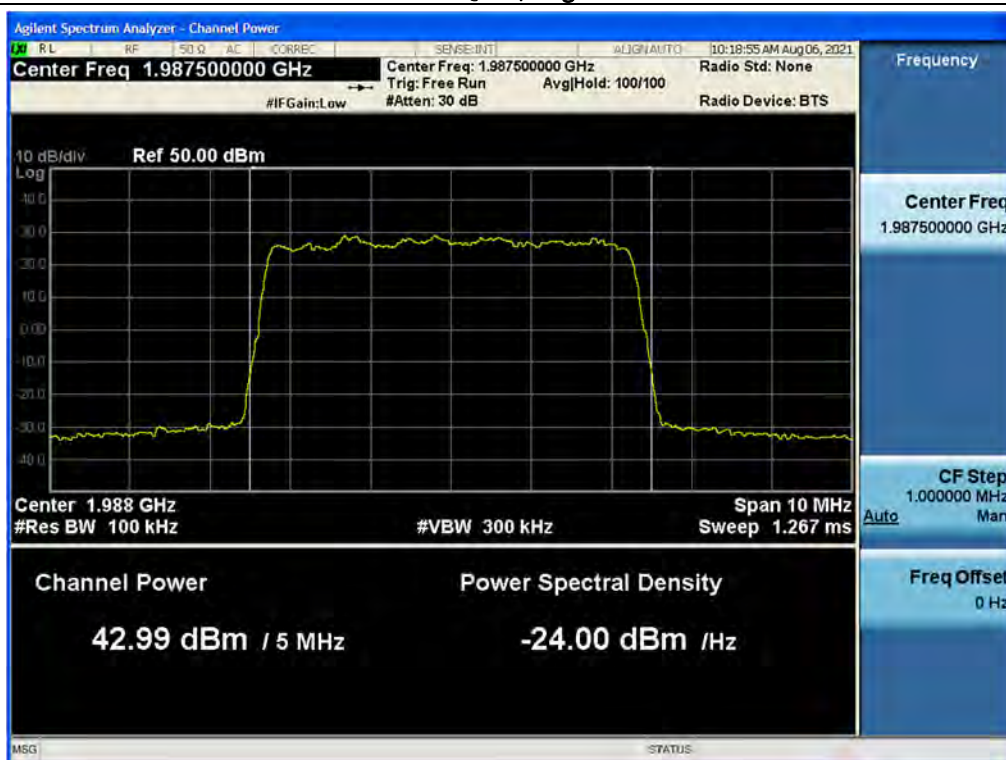




Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B2 LTE 5 MHz / 16QAM / Low



Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B2 LTE 5 MHz / 16QAM / High



## Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B2 LTE 5 MHz / QPSK / Low



## Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B2 LTE 20 MHz / QPSK / High



## Antenna 1 / (4 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B2 LTE 10 MHz / QPSK / Low



## Antenna 1 / (4 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B2 LTE 20 MHz / QPSK / High

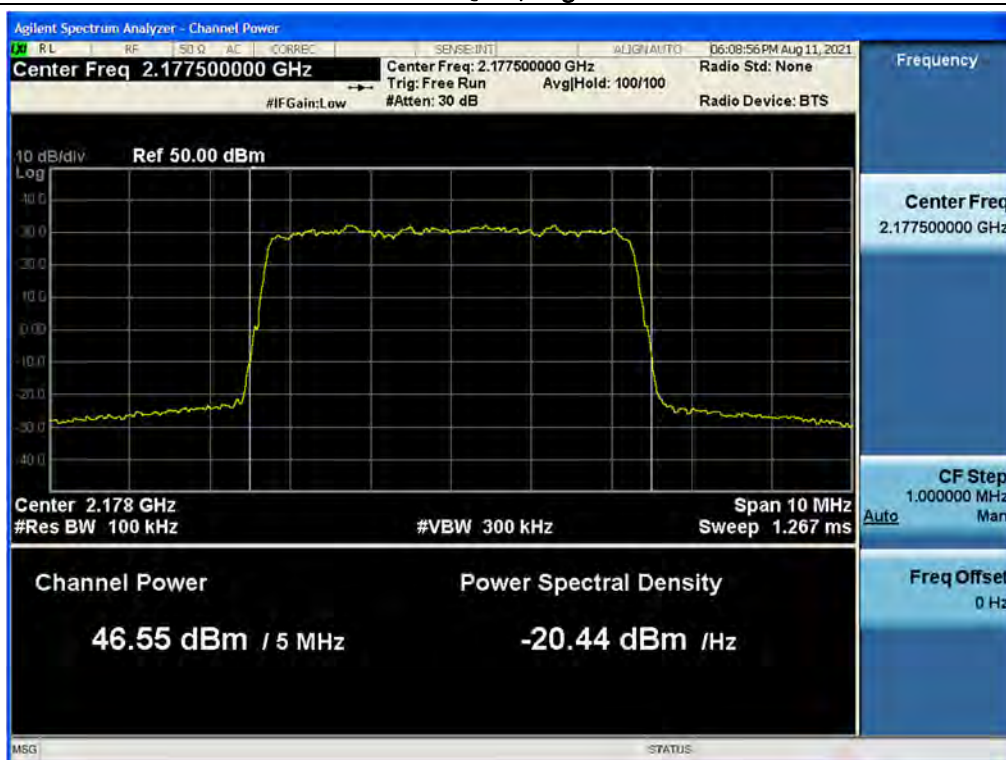




## Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 16QAM / Low



## Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High



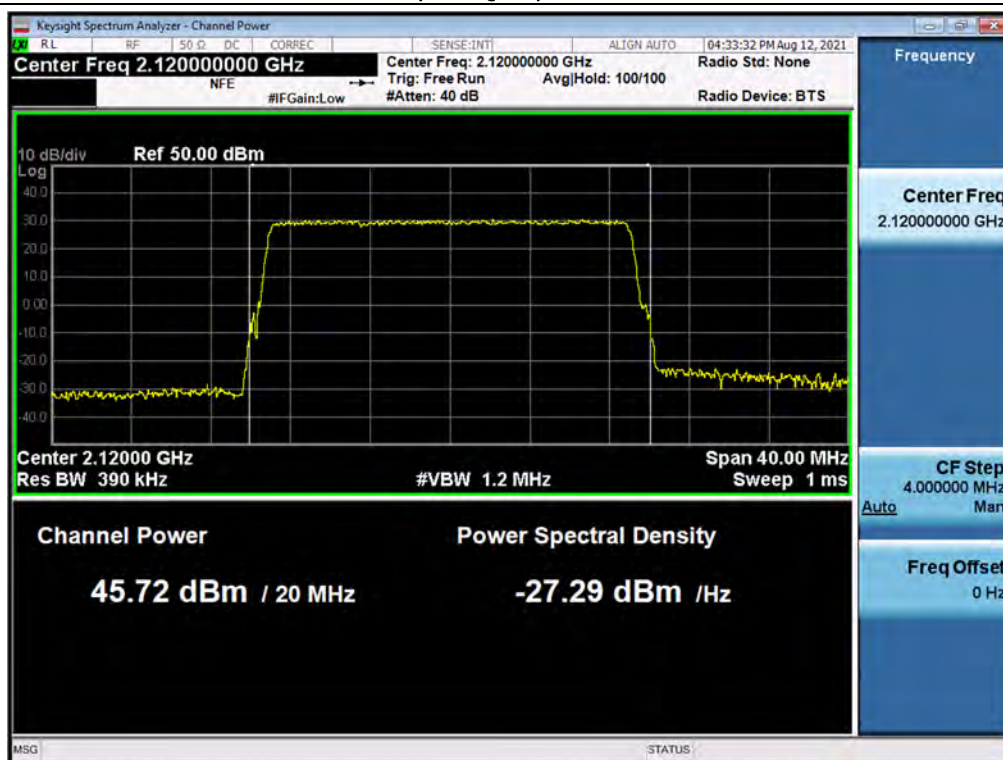
## Antenna 0 / (2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / 16QAM / Low



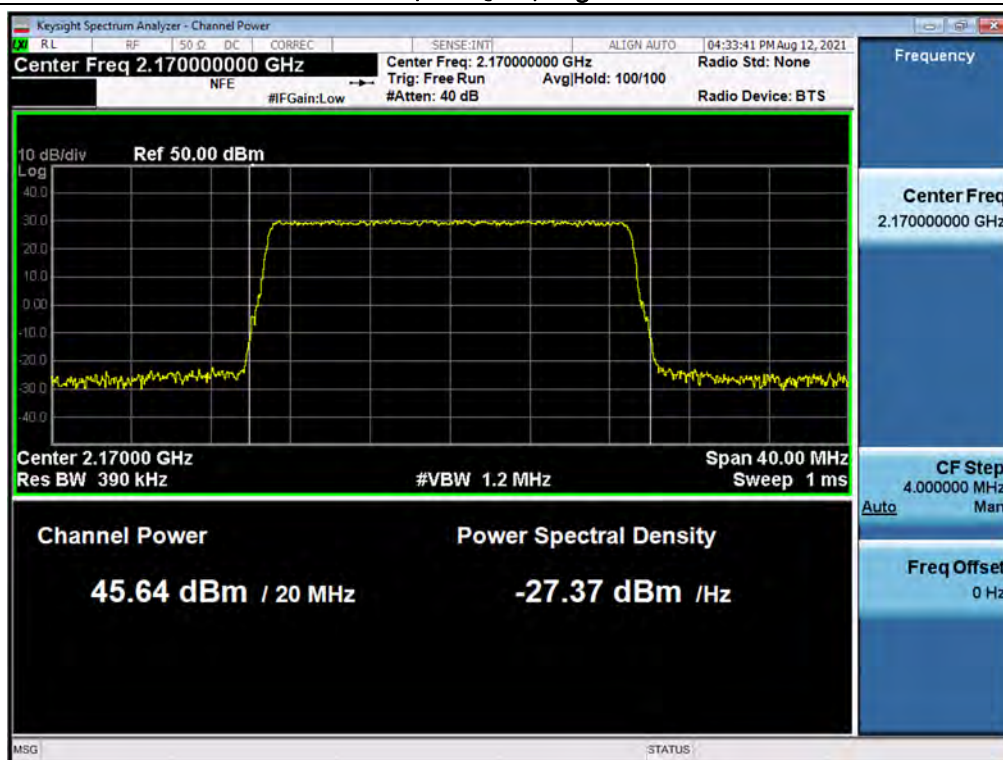
## Antenna 0 / (2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High



Antenna 1 / (2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / 256QAM / Low

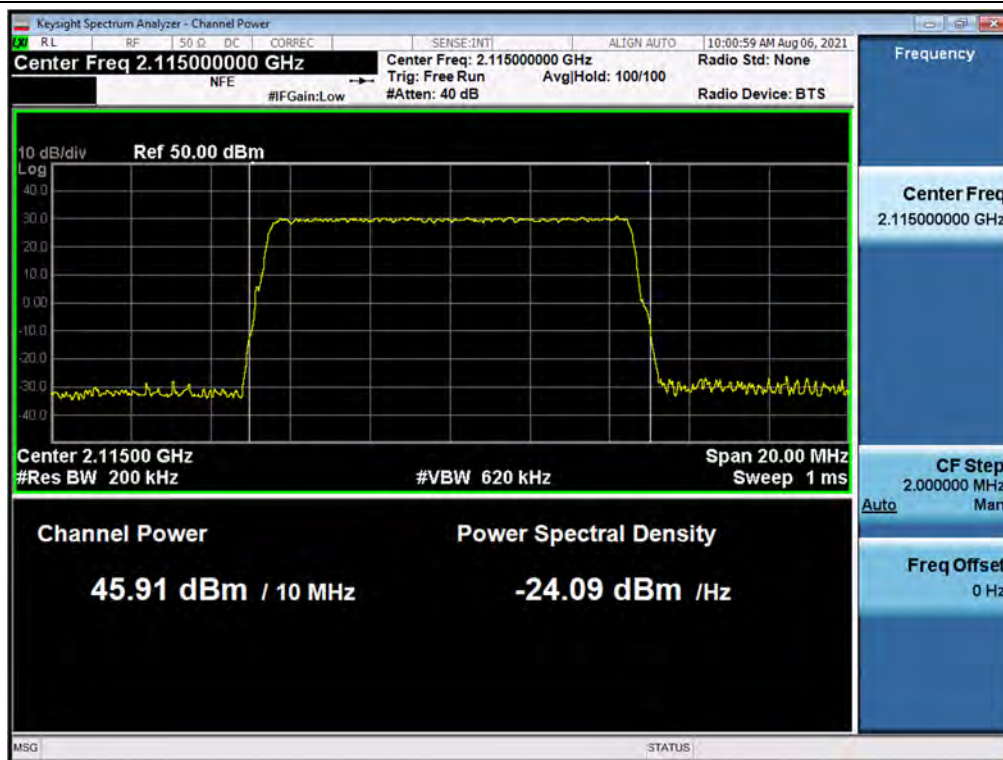


Antenna 1 / (2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / 256QAM / High

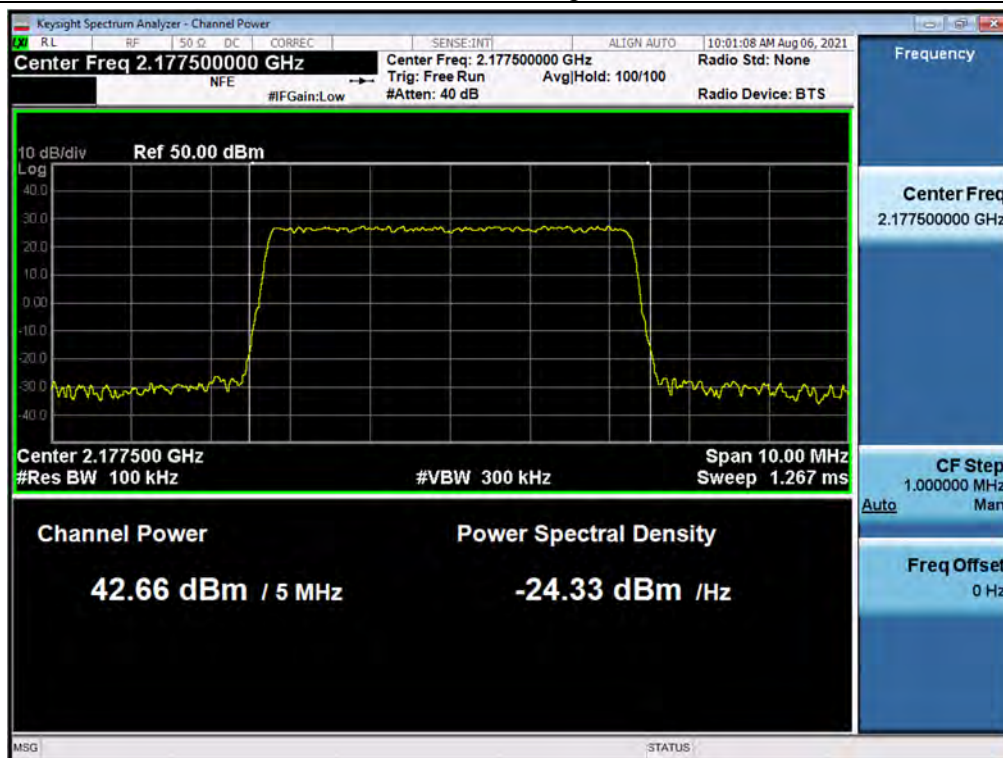




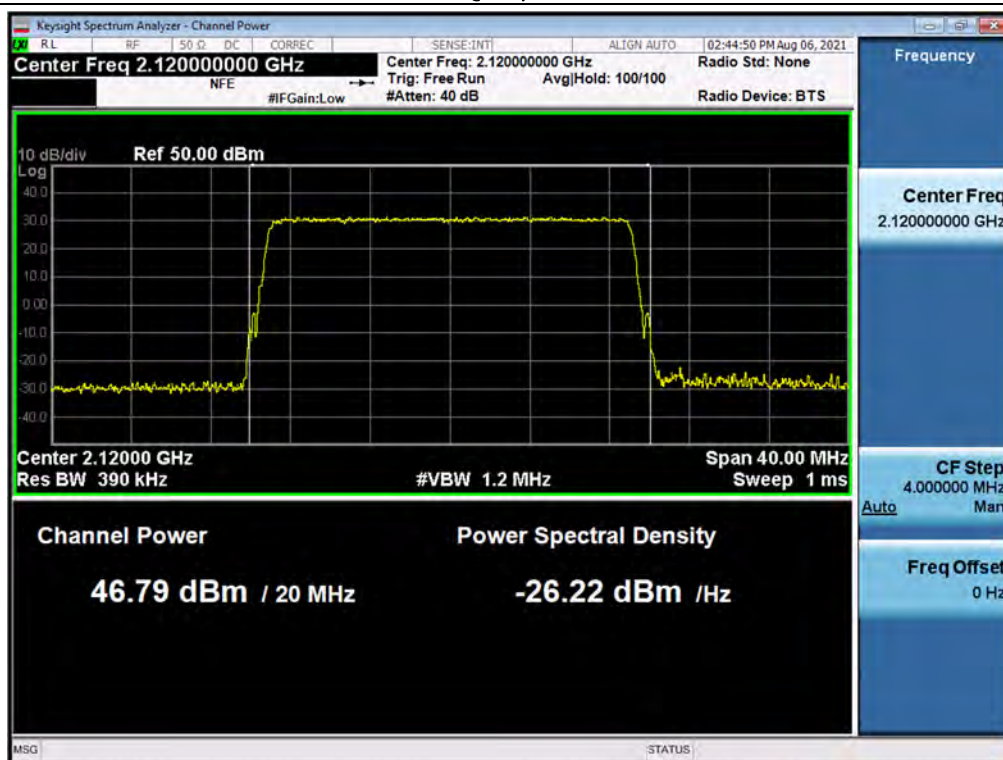
Antenna 2 / (4 Port) B66 LTE 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 10 MHz / 256QAM / Low



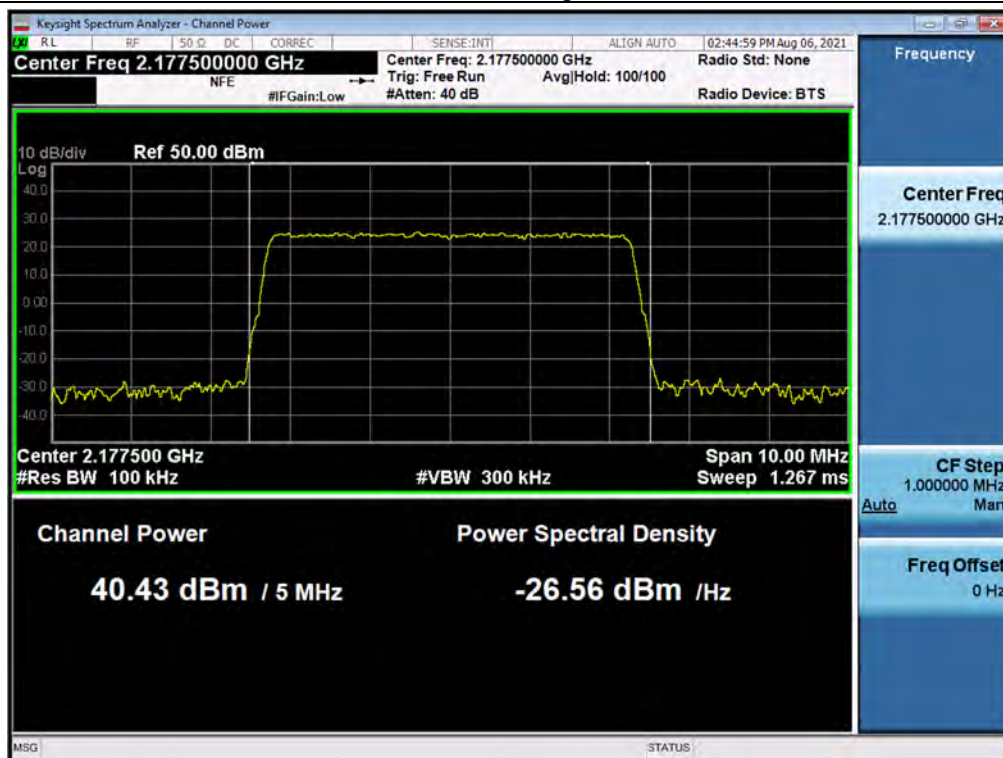
Antenna 2 / (4 Port) B66 LTE 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 256QAM / High



Antenna 2 / (4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / 64QAM / Low

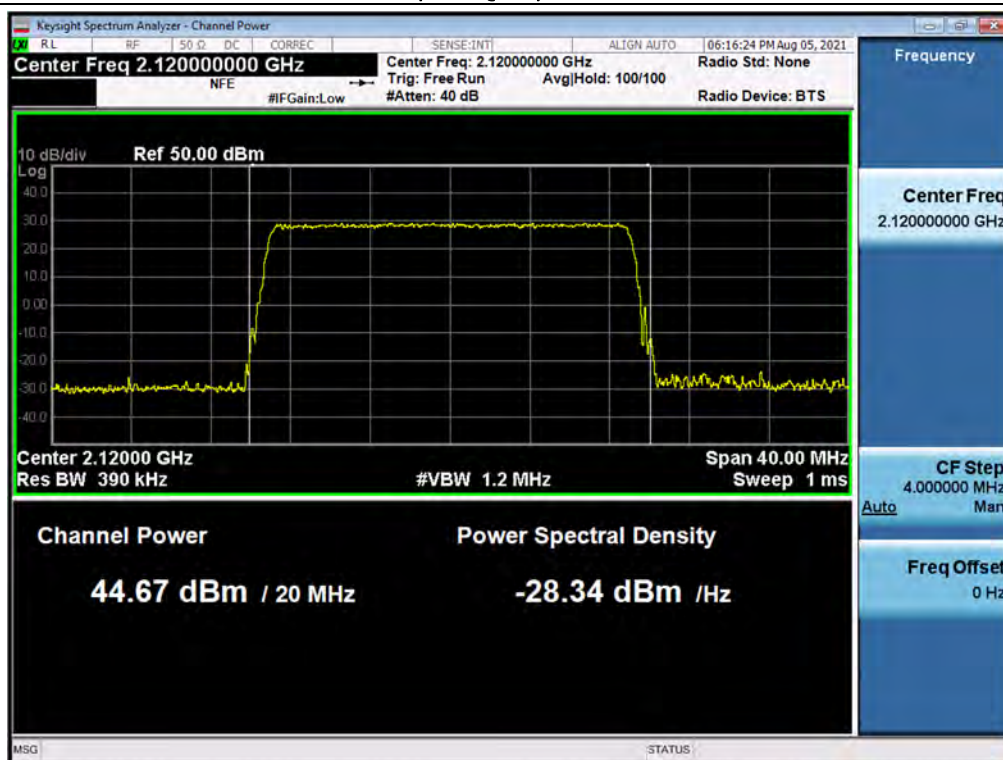


Antenna 2 / (4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 64QAM / High

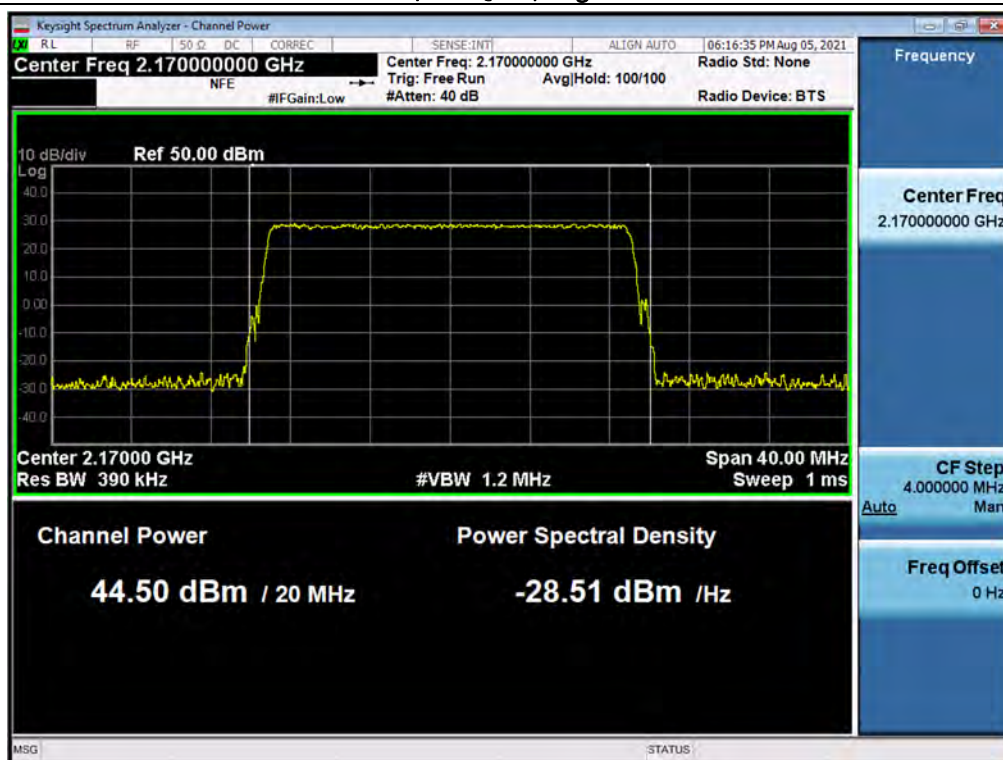




Antenna 2 / (4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / 256QAM / Low



Antenna 2 / (4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / 256QAM / High



Antenna 0 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B2 LTE 5 MHz / 16QAM / Low



Antenna 0 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B2 LTE 5 MHz + B2 LTE 5 MHz / 16QAM / High



Antenna 0 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B2 LTE 5 MHz + B2 LTE 5 MHz / QPSK / Low



Antenna 0 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B2 LTE 5 MHz / QPSK / High





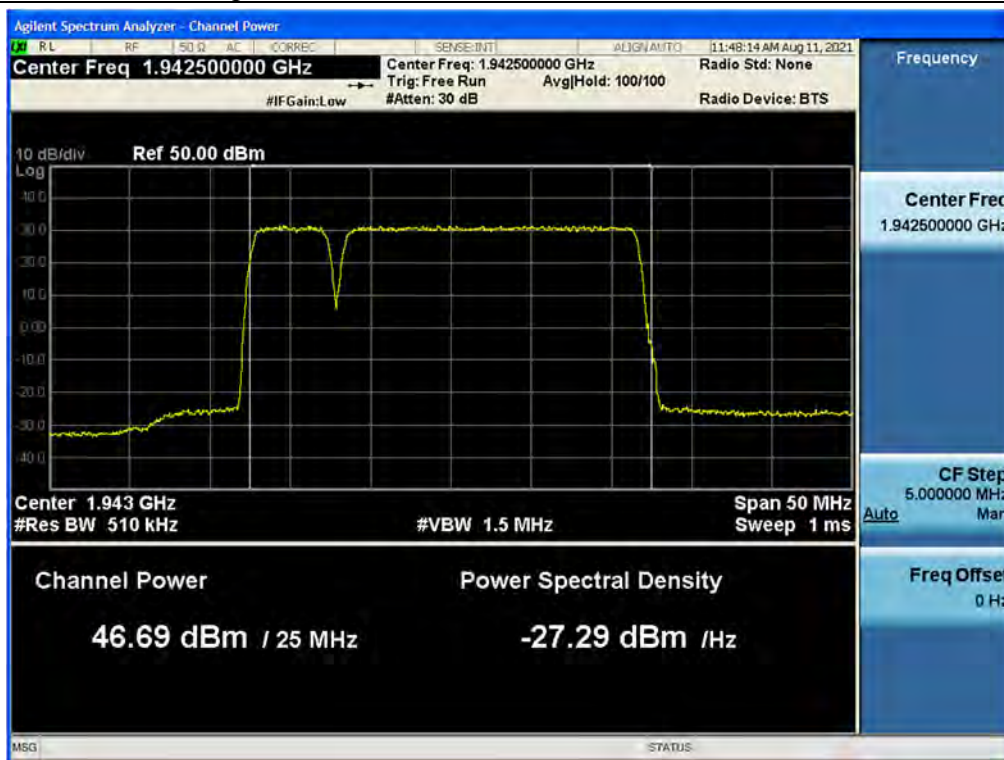
Antenna 1 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B2 LTE 5 MHz / 256QAM / Low



Antenna 1 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B2 LTE 20 MHz + B2 LTE 5 MHz / 256QAM / High



Antenna 0 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B2 LTE 5 MHz + B2 LTE 20 MHz / 256QAM / Low



Antenna 0 / (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B2 LTE 5 MHz / 256QAM / High



Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B2 LTE 5 MHz / QPSK / Low

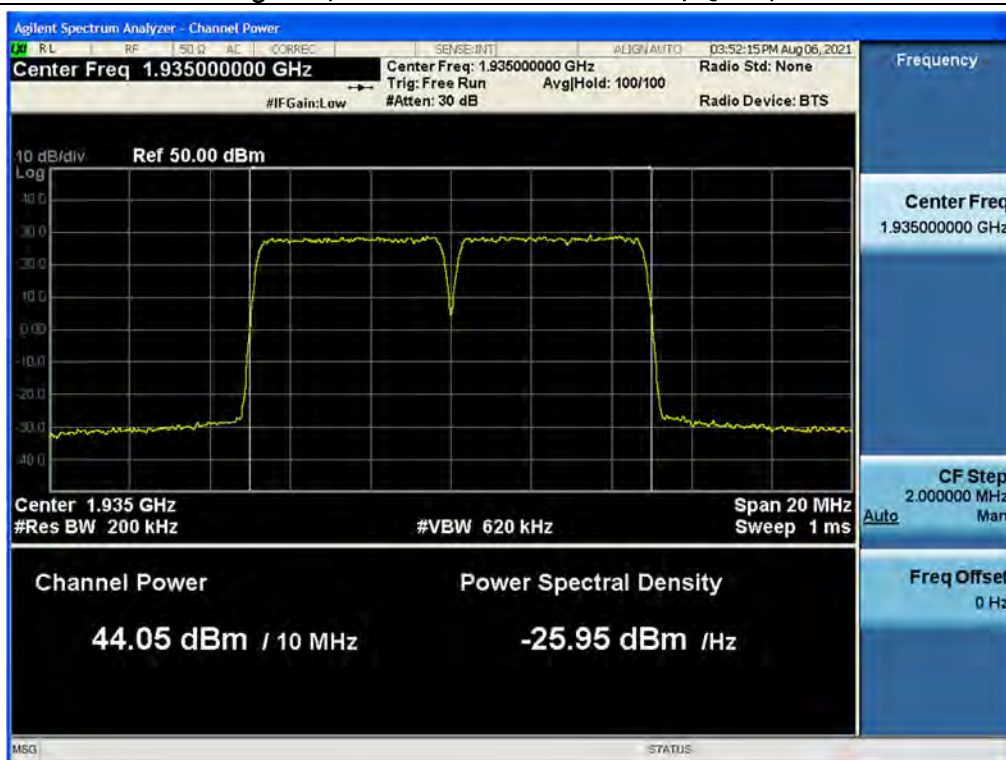


Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B2 LTE 5 MHz + B2 LTE 5 MHz / QPSK / High

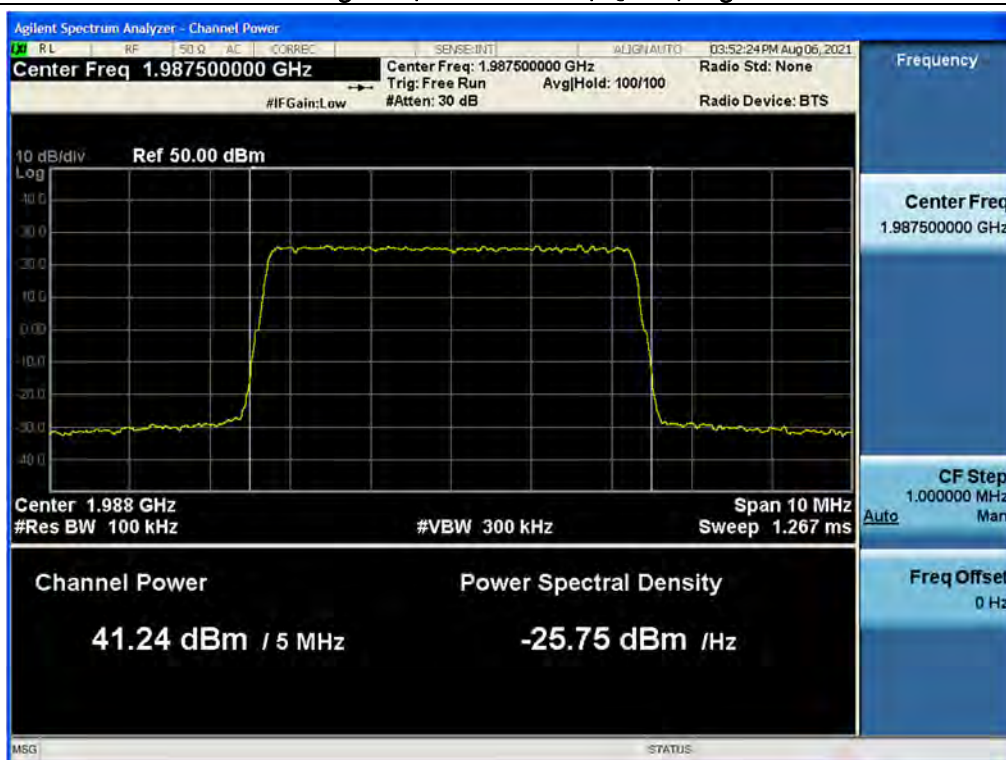




Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B2 LTE 5 MHz + B2 LTE 5 MHz / QPSK / Low



Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B2 LTE 5 MHz / QPSK / High



Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B2 LTE 5 MHz / 64QAM / Low



Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B2 LTE 20 MHz + B2 LTE 5 MHz / 64QAM / High





Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B2 LTE 5 MHz + B2 LTE 20 MHz / 256QAM / Low



Antenna 1 / (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B2 LTE 5 MHz / 256QAM / High



Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 5 MHz / 16QAM / Low



Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 5 MHz / 16QAM / High



Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 5 MHz / 16QAM / Low

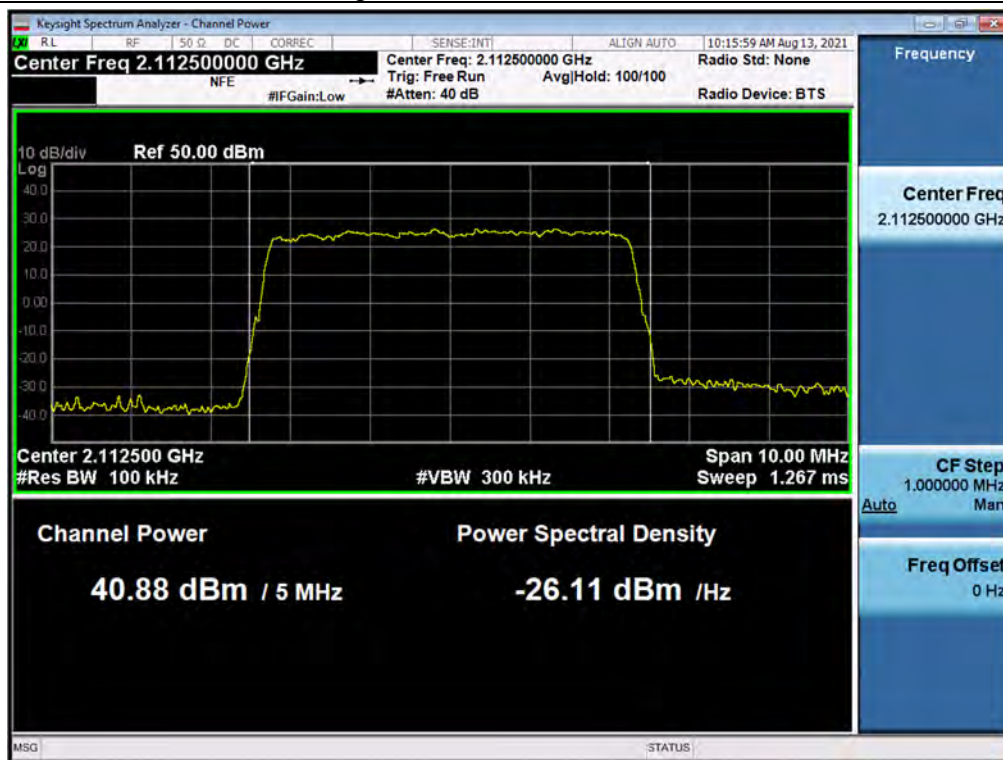


Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High

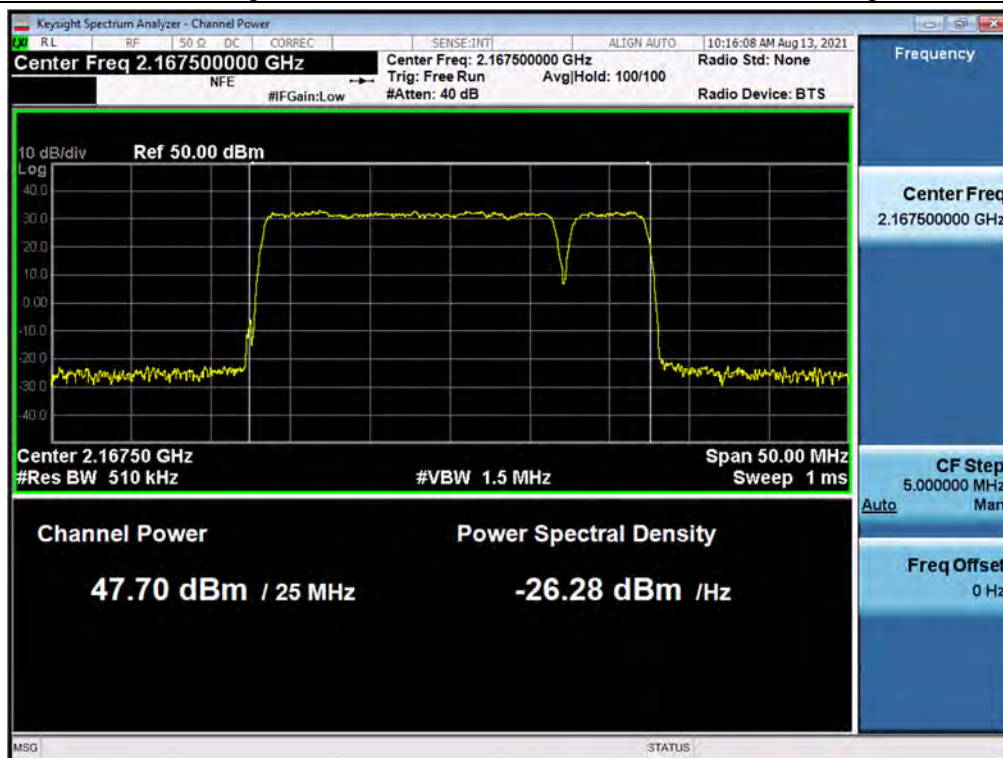




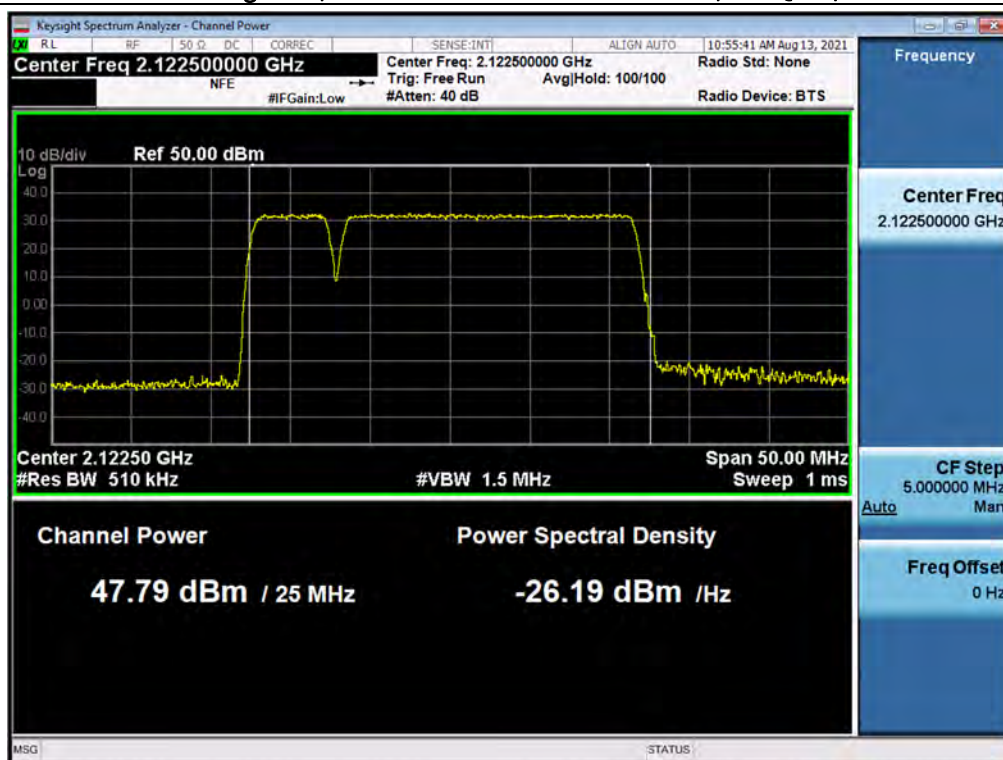
Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 5 MHz / 16QAM / Low



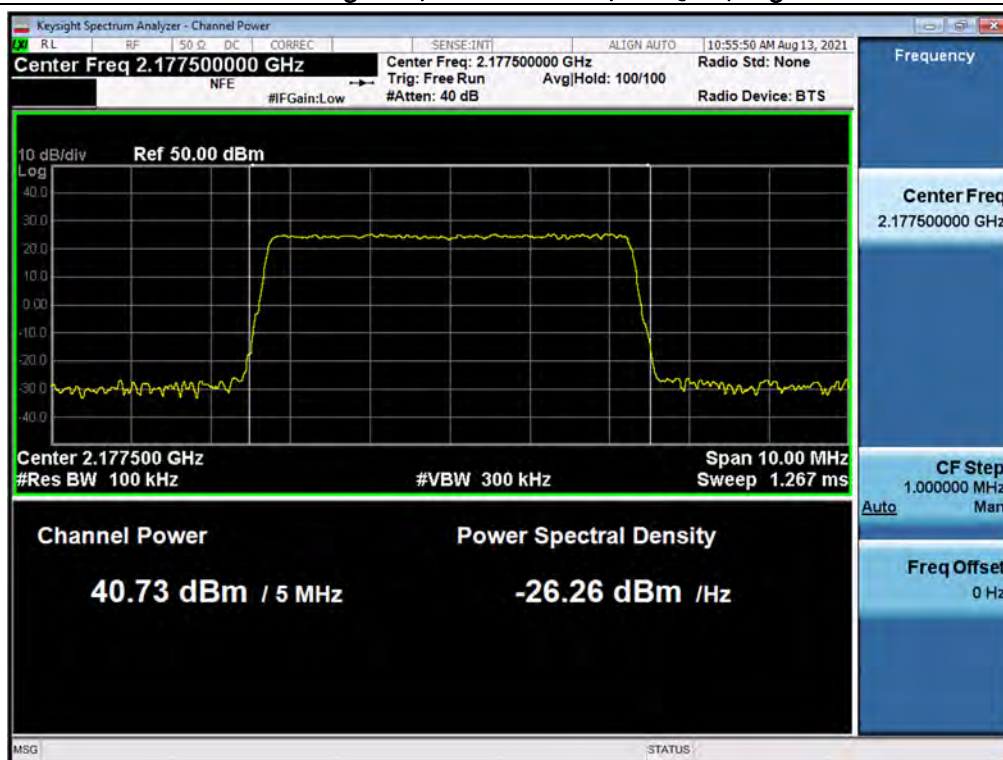
Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 20 MHz + B66 LTE 5 MHz / 16QAM / High



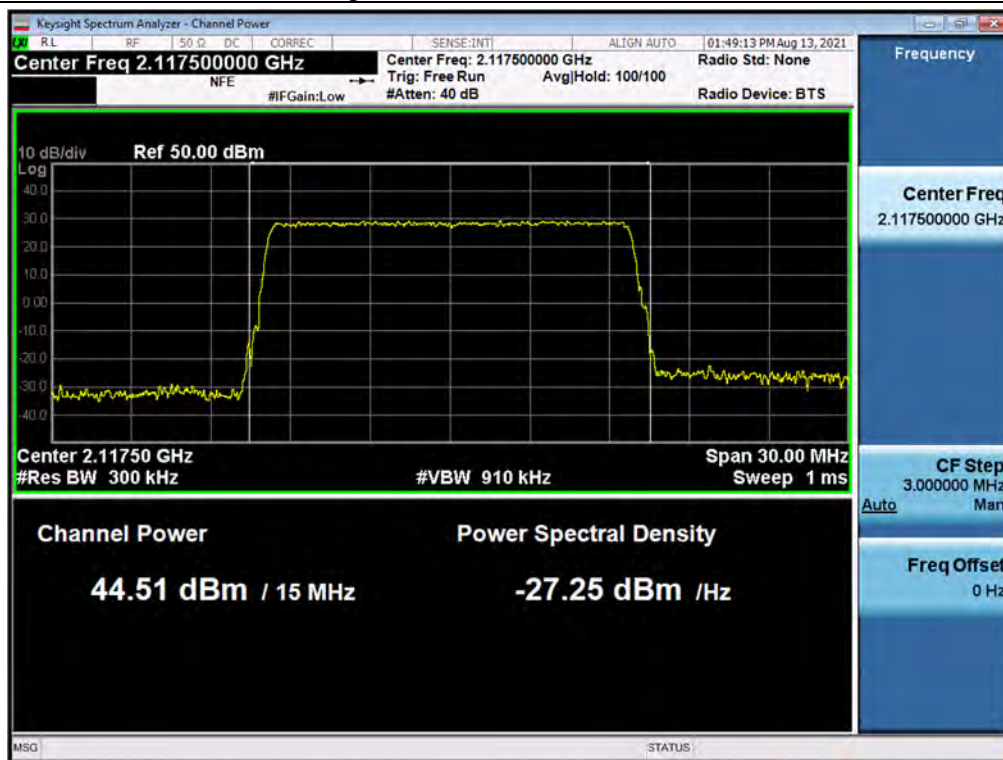
Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 20 MHz / 256QAM / Low



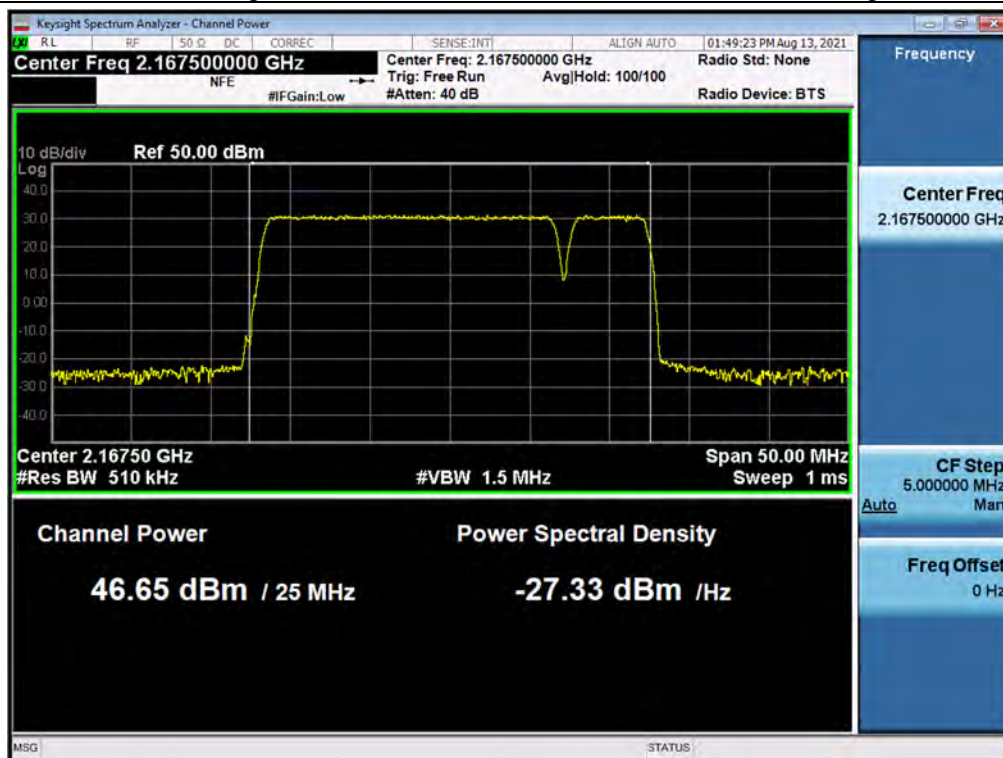
Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 5 MHz / 256QAM / High



Antenna 1 / (2 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 15 MHz / 64QAM / Low

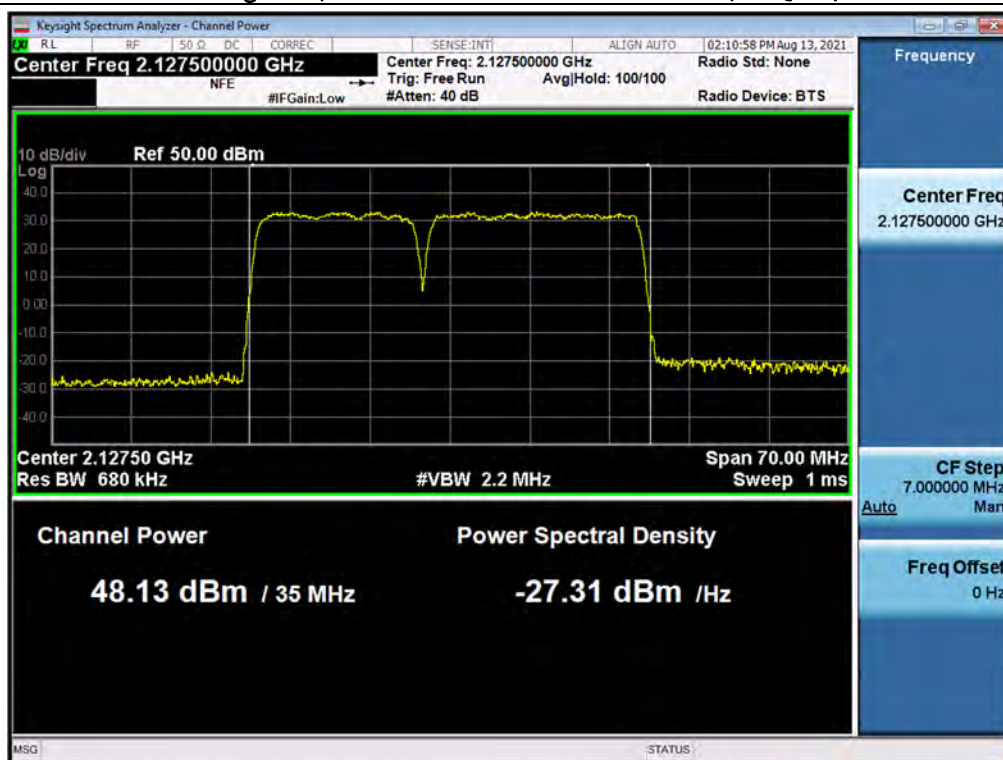


Antenna 1 / (2 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 20 MHz + B66 LTE 5 MHz / 64QAM / High

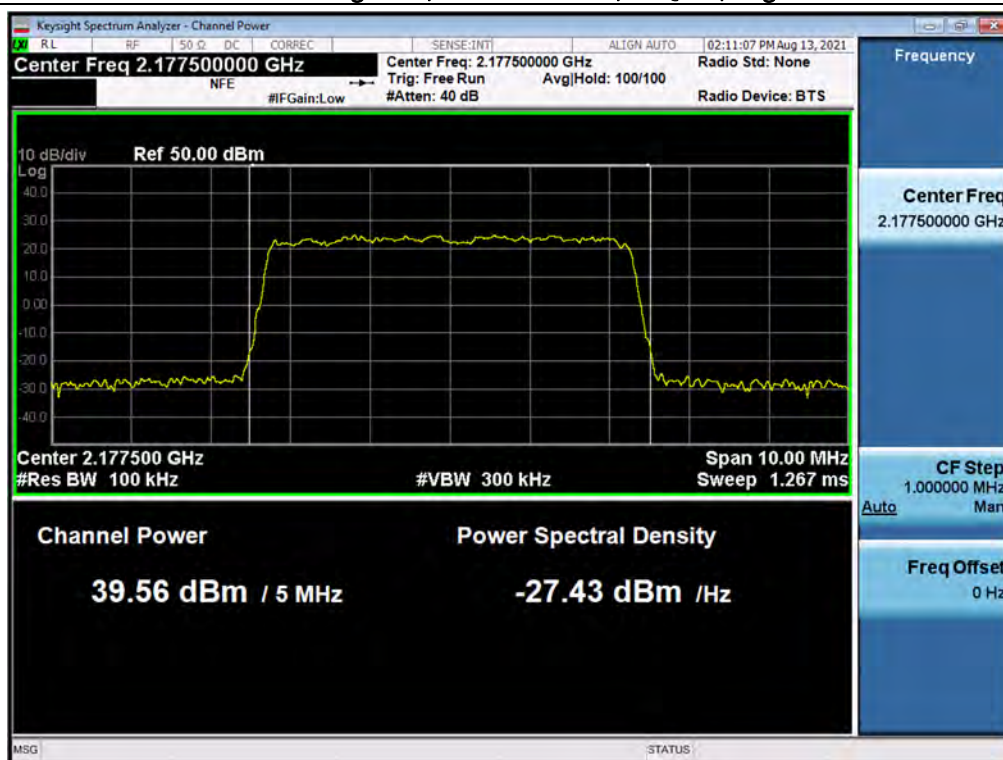




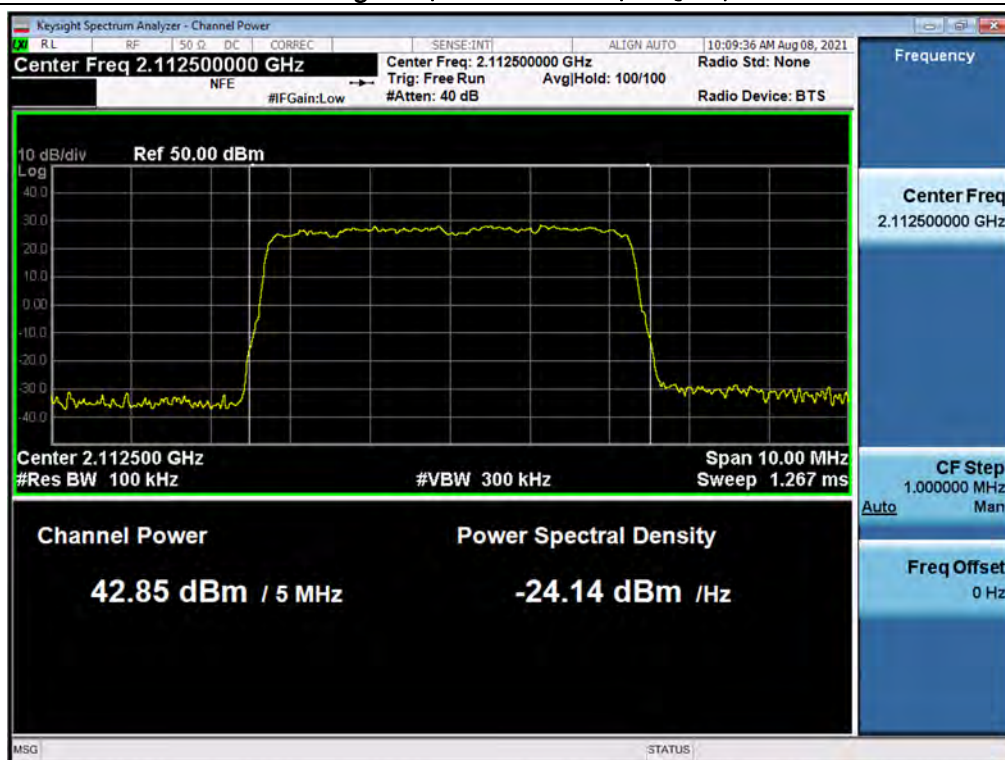
Antenna 0 / (2 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 15 MHz + B66 LTE 20 MHz / 16QAM / Low



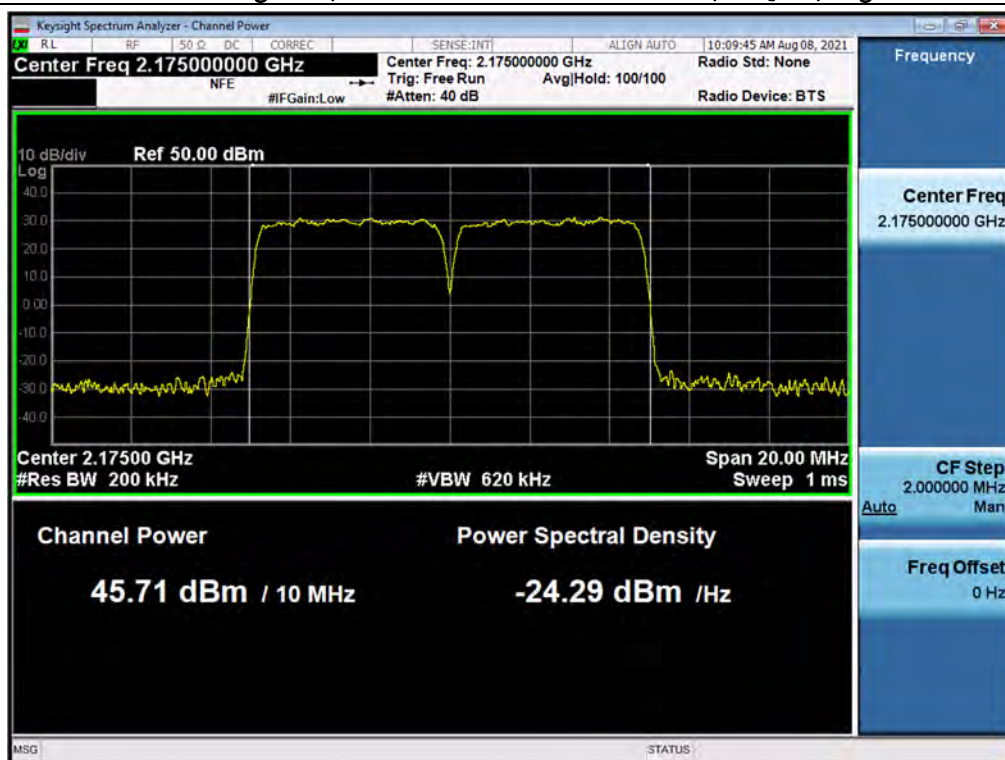
Antenna 0 / (2 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High



Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 5 MHz / 16QAM / Low

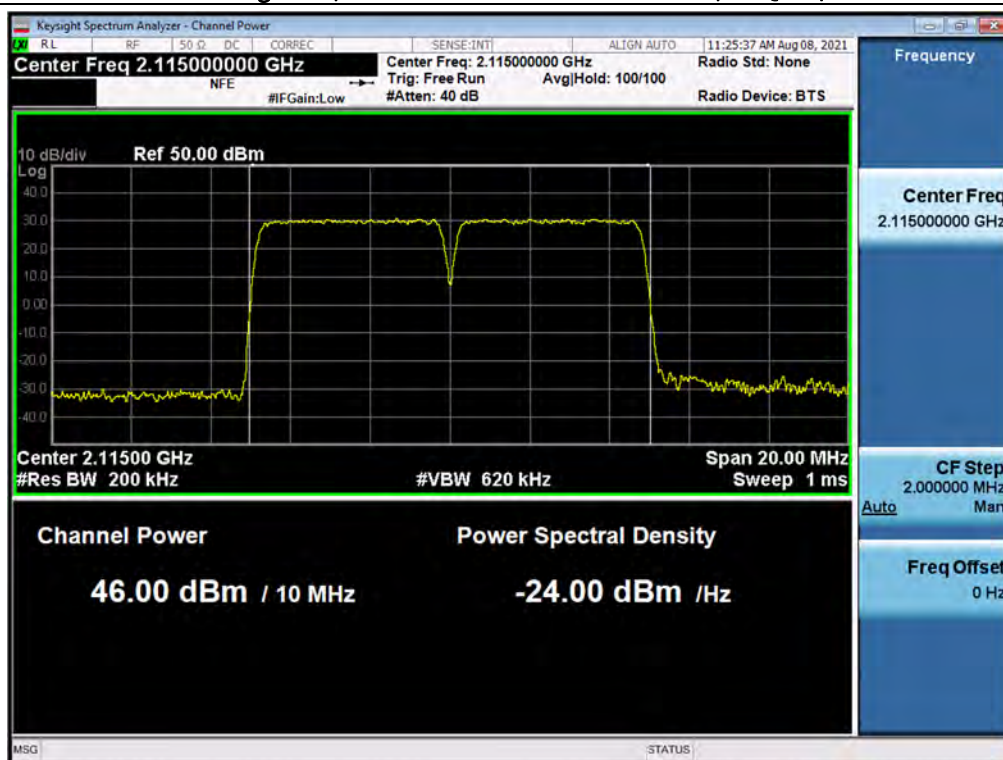


Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 5 MHz / 16QAM / High

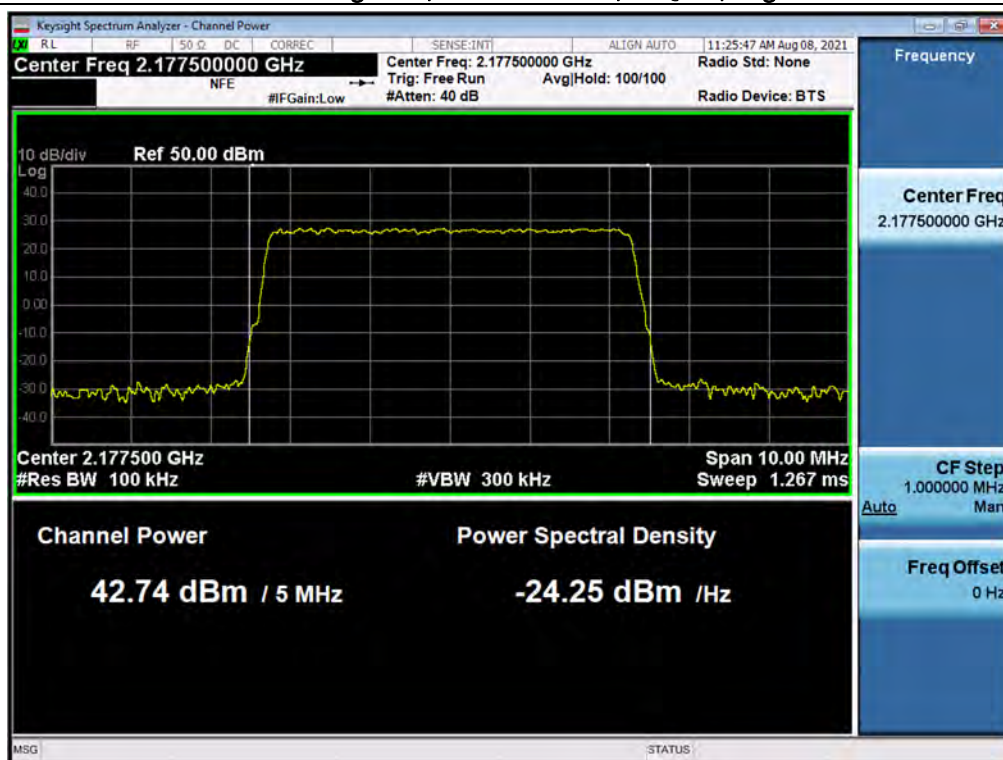




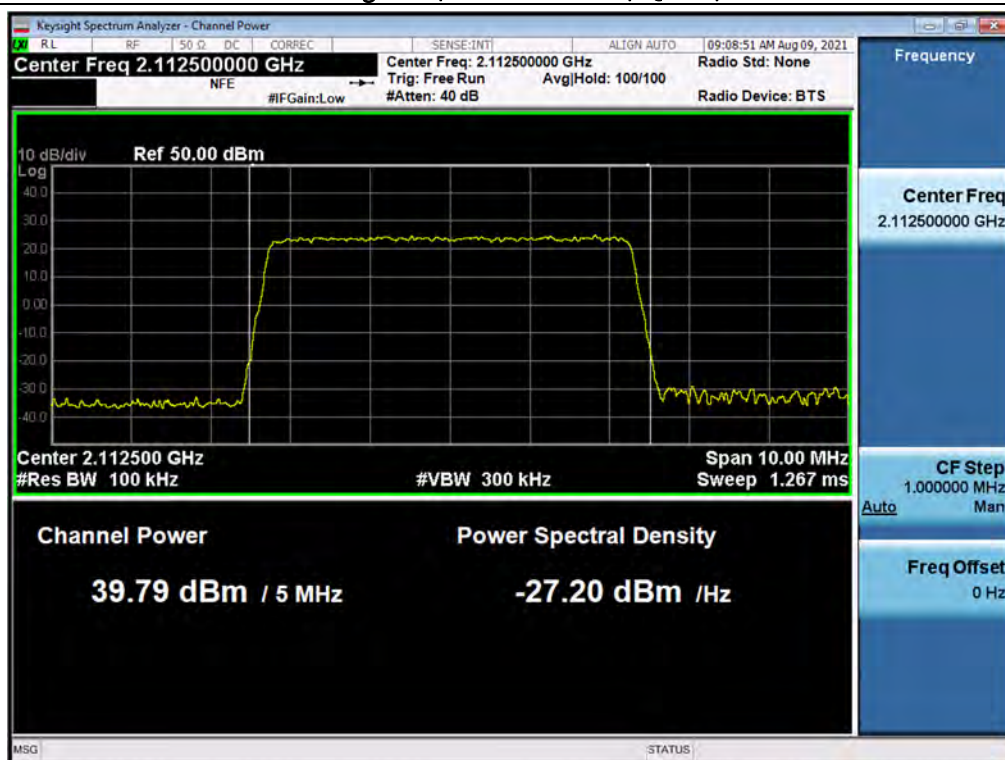
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 5 MHz / 64QAM / Low



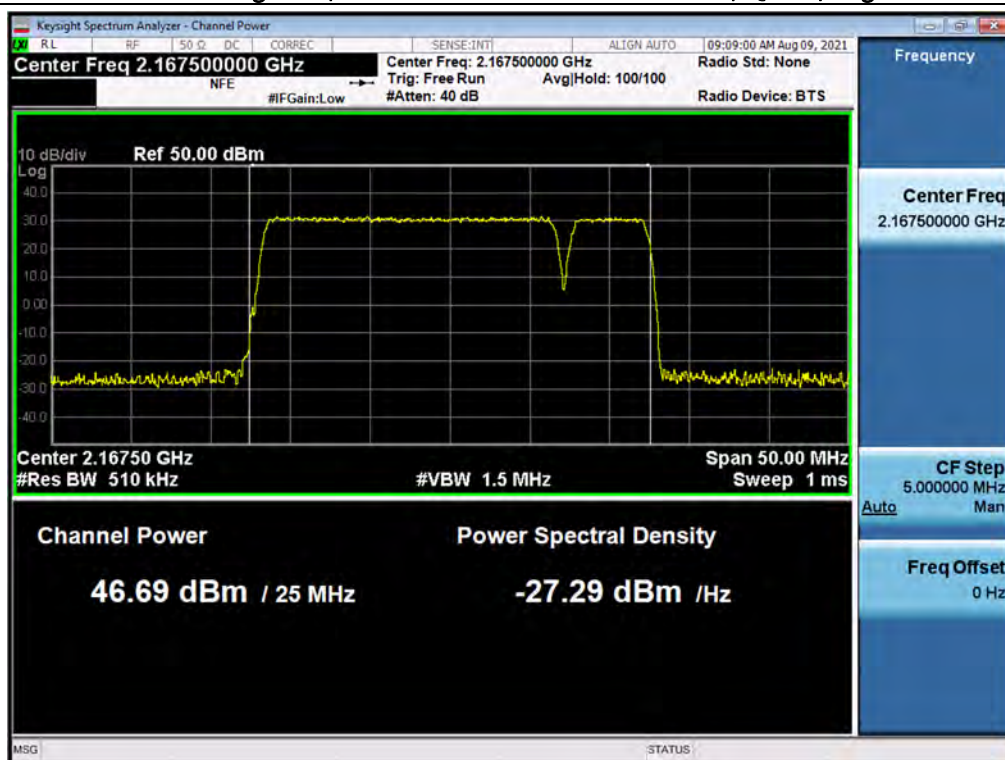
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 5 MHz / 64QAM / High



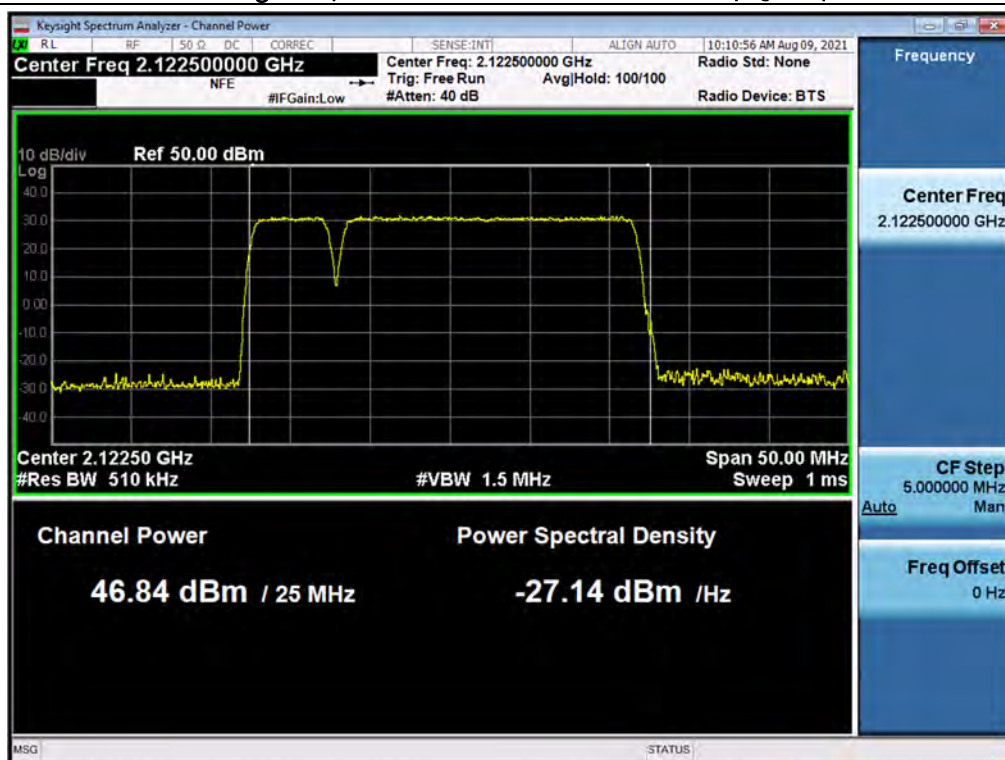
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 5 MHz / QPSK / Low



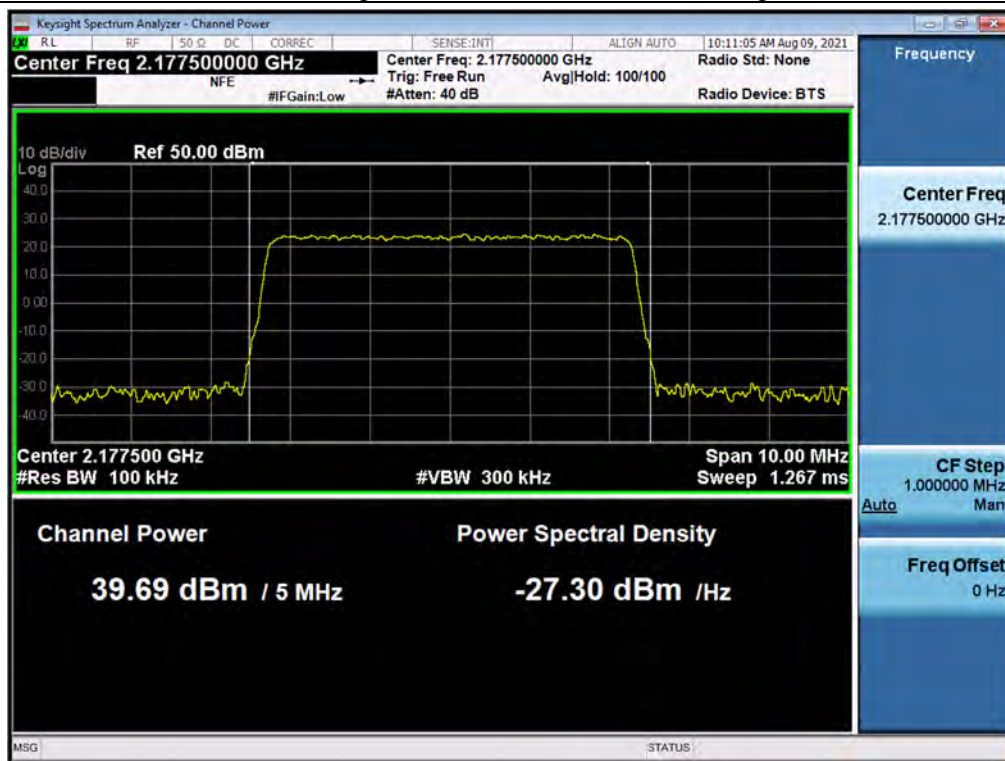
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 20 MHz + B66 LTE 5 MHz / QPSK / High



Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 20 MHz / QPSK / Low

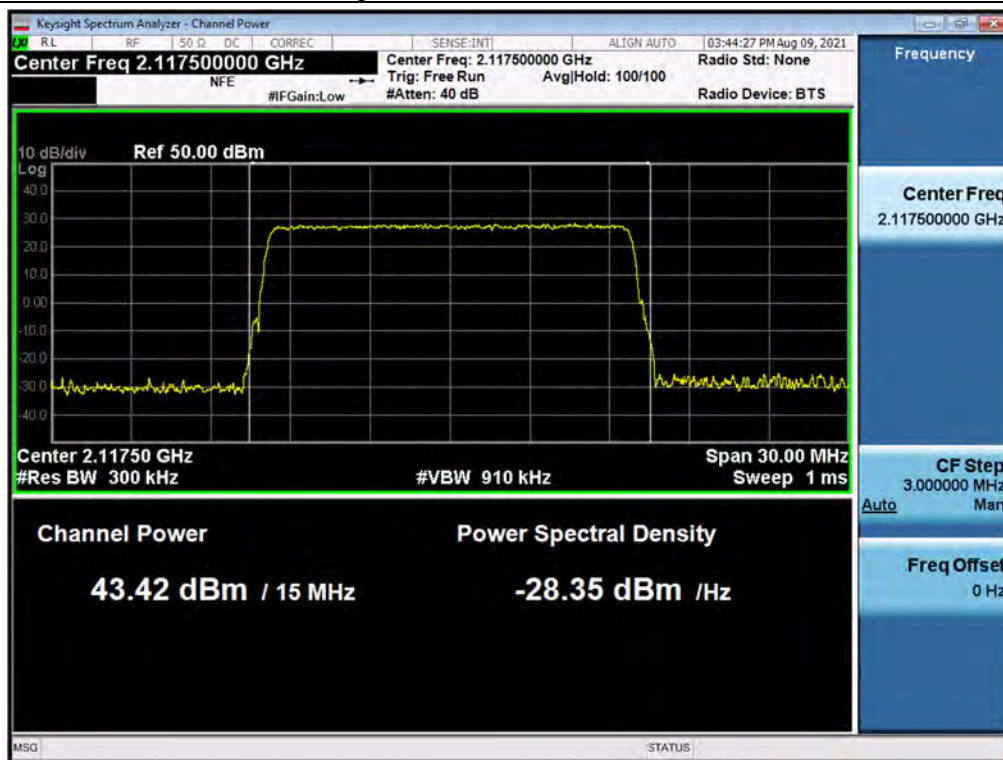


Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 5 MHz / QPSK / High

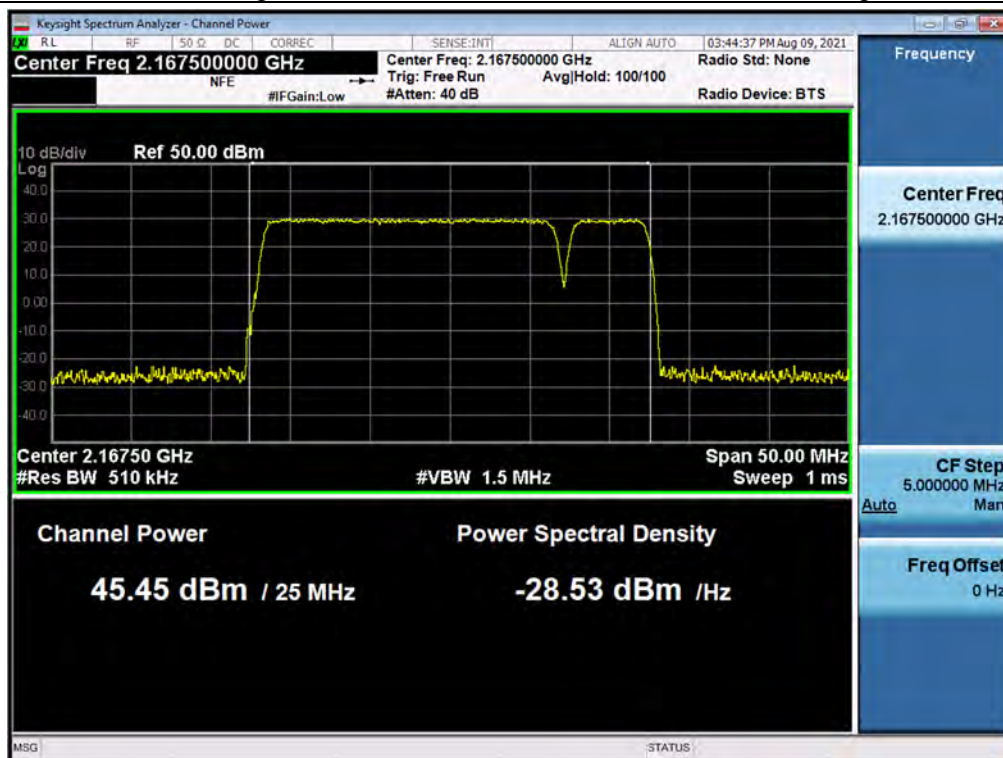




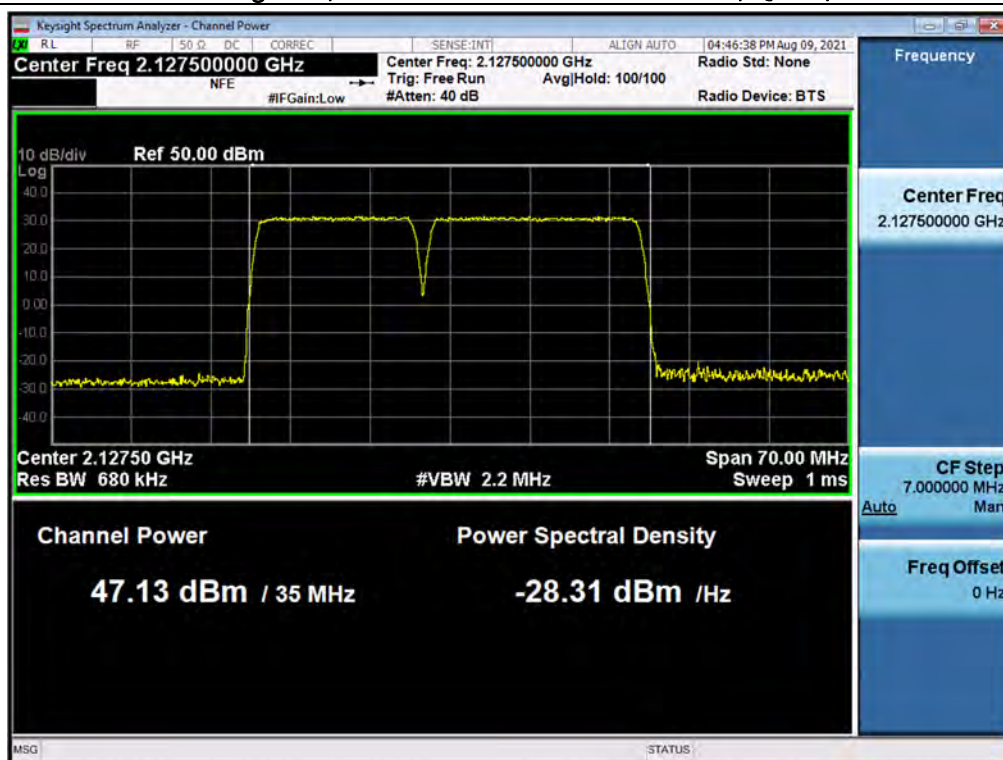
Antenna 2 / (4 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 15 MHz / QPSK / Low



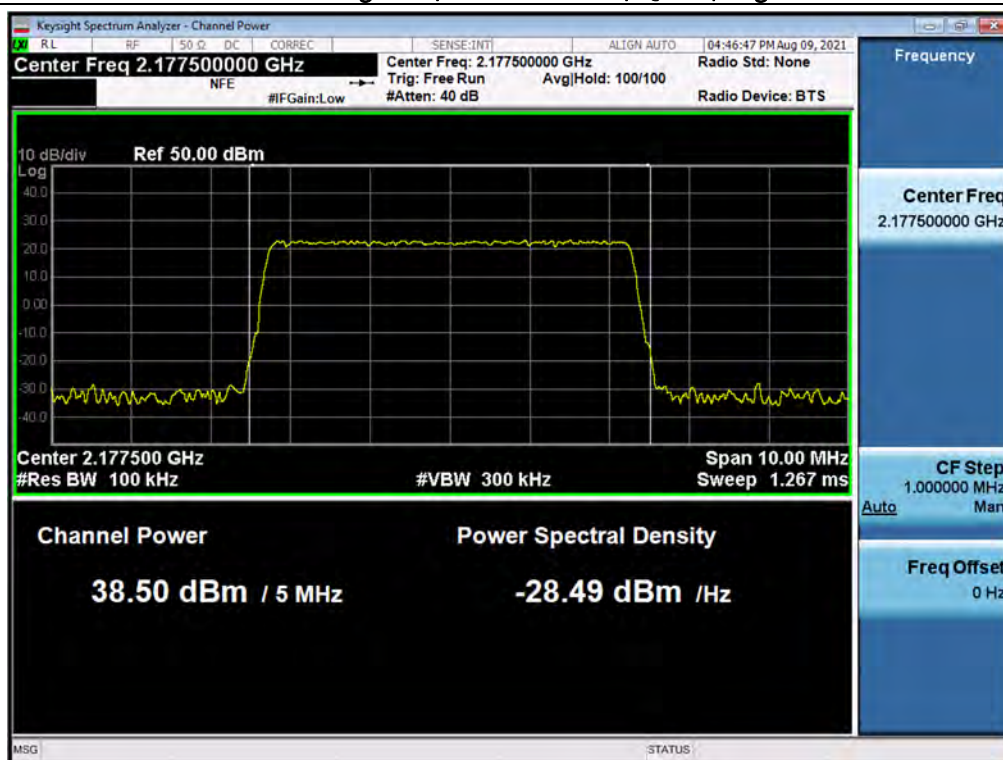
Antenna 2 / (4 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / B66 LTE 20 MHz + B66 LTE 5 MHz / QPSK / High



Antenna 2 / (4 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 15 MHz + B66 LTE 20 MHz / QPSK / Low



Antenna 2 / (4 Port) B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / B66 LTE 5 MHz / QPSK / High



Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 5 MHz / 256QAM / Low



Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 5 MHz + B66 LTE 5 MHz / 256QAM / High





Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 5 MHz + B66 LTE 5 MHz / 16QAM / Low

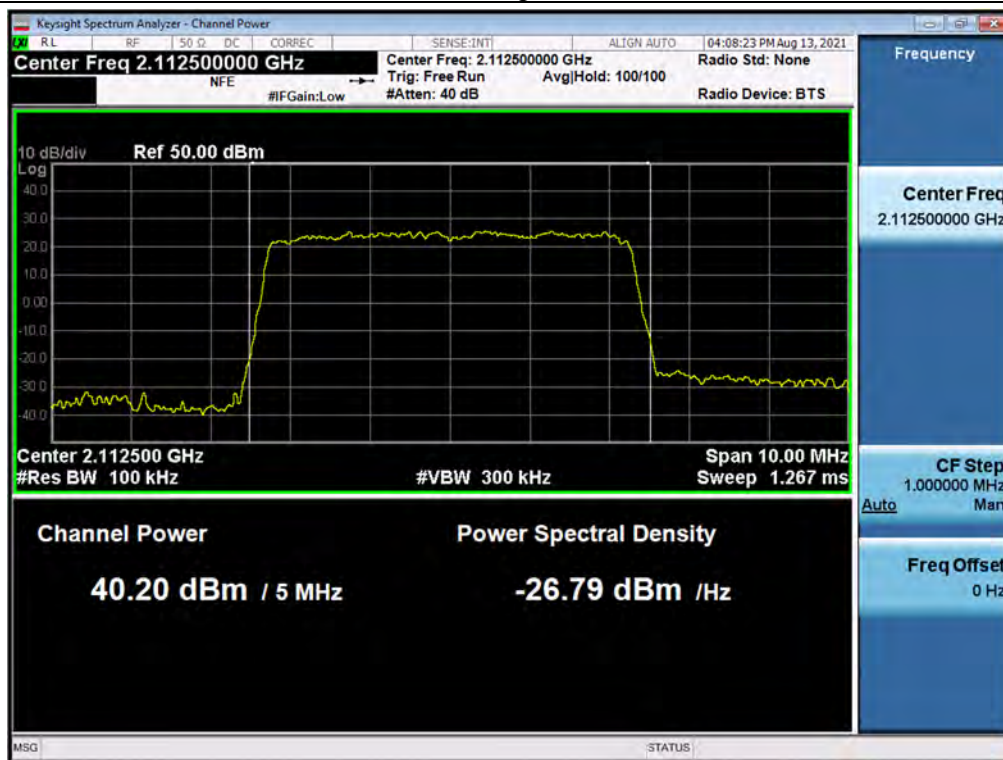


Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High

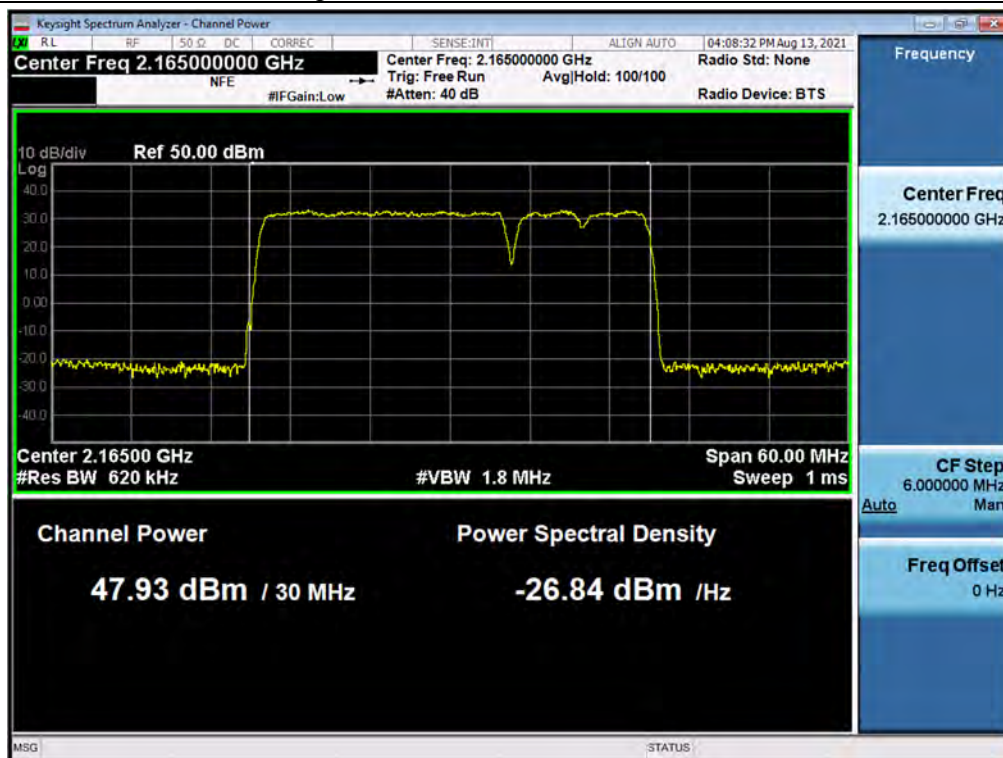




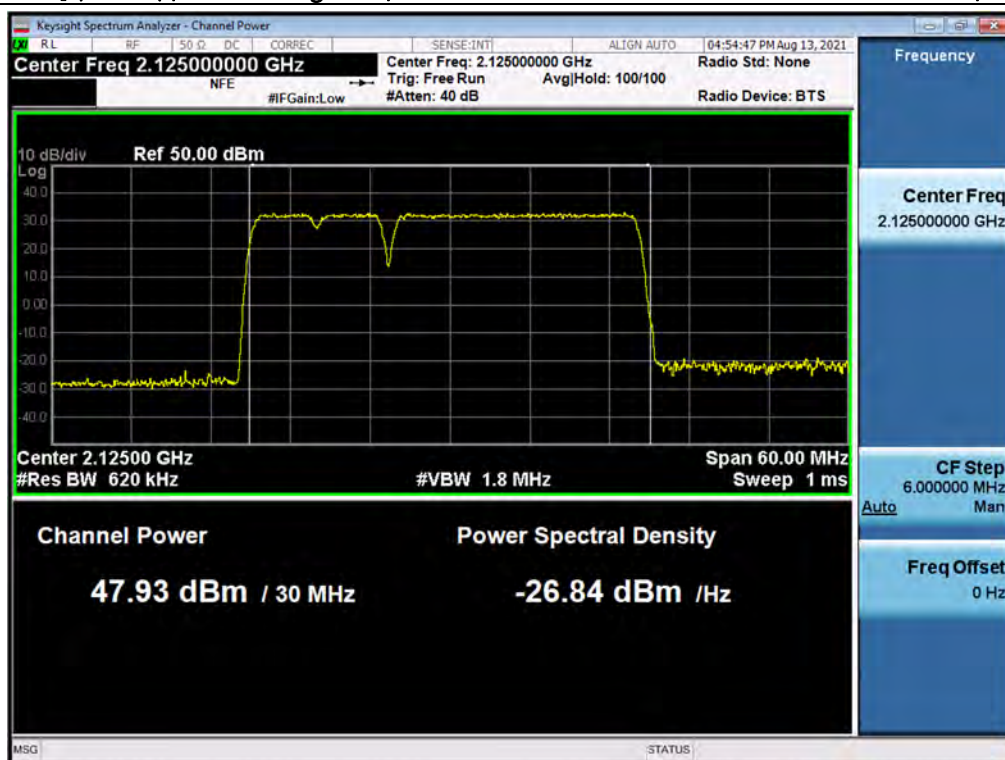
Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 5 MHz / 16QAM / Low



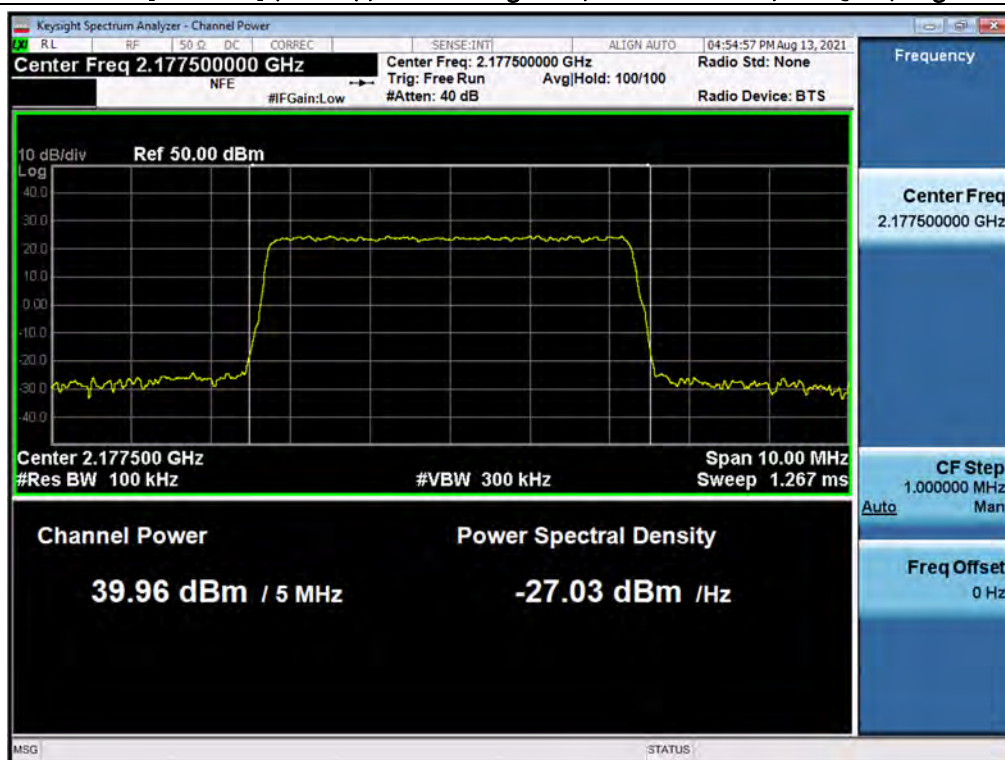
Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 20 MHz + B66 LTE 5 MHz + B66 LTE 5 MHz / 16QAM / High



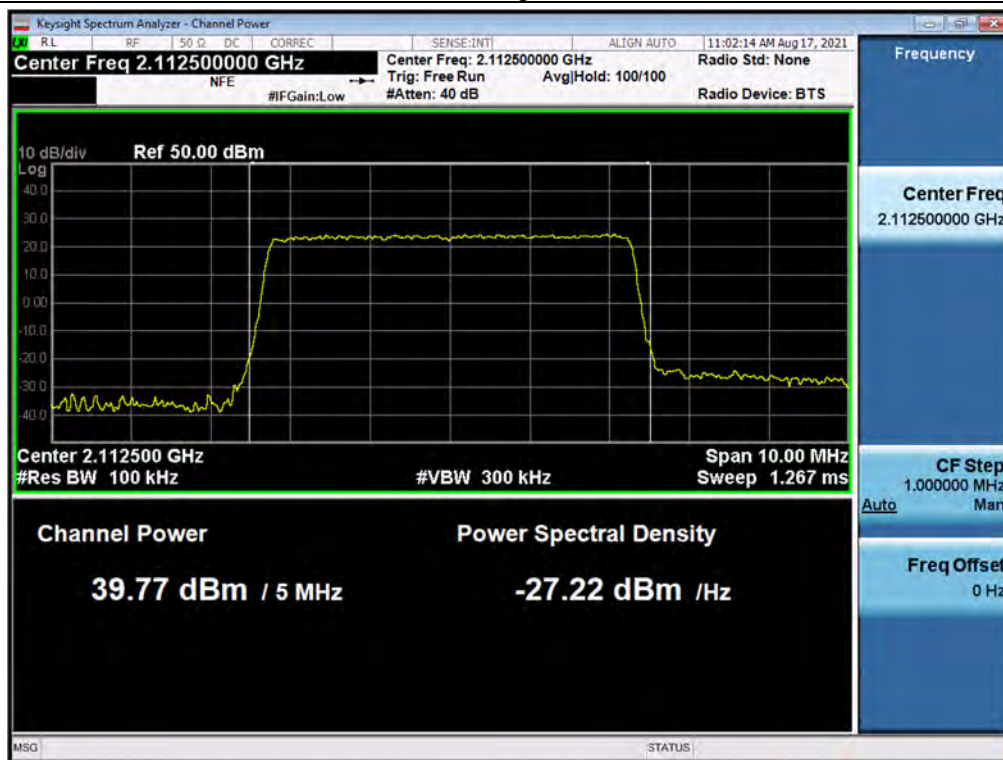
Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 5 MHz + B66 LTE 20 MHz / 256QAM / Low



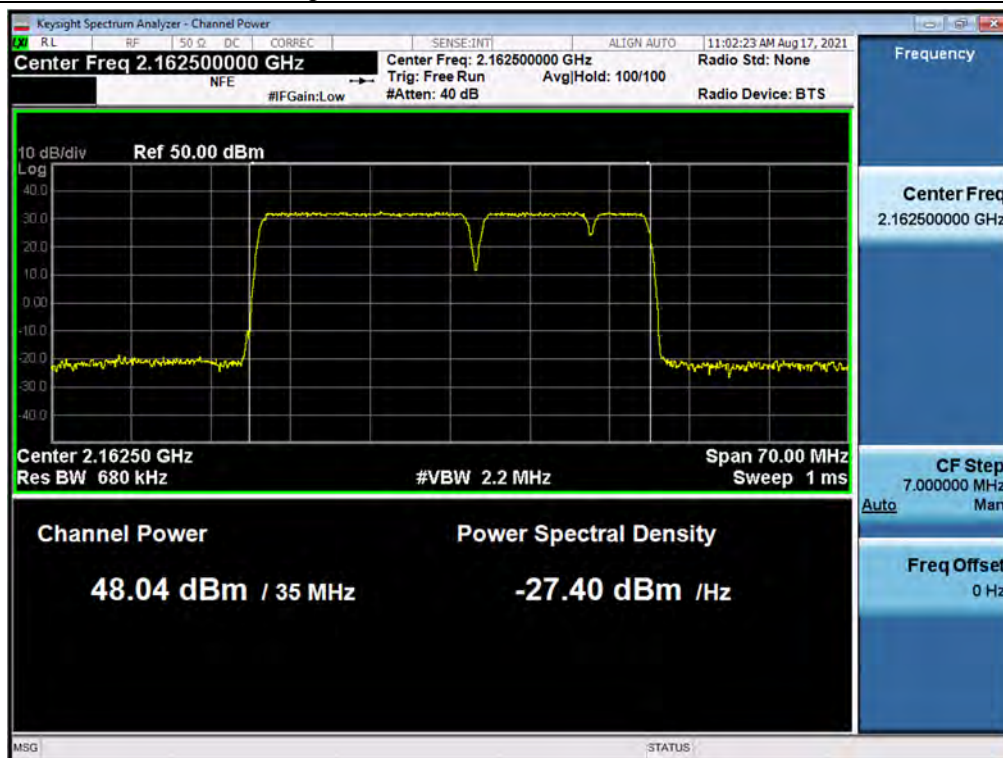
Antenna 0 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz / 256QAM / High



Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 5 MHz / 64QAM / Low

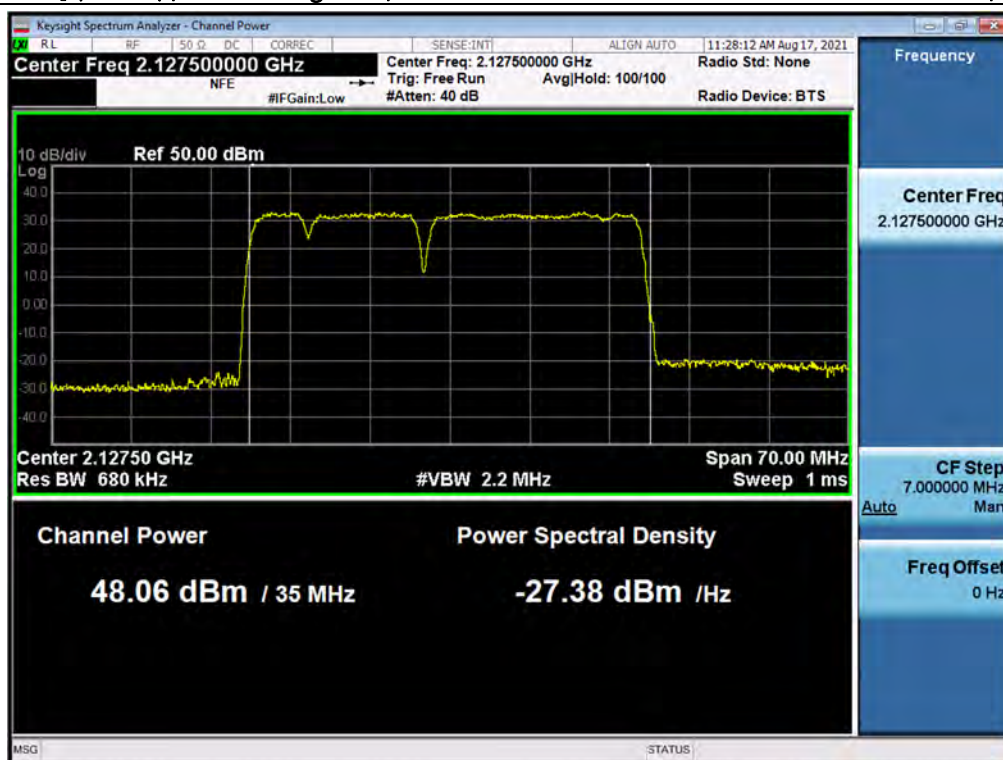


Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 20 MHz + B66 LTE 10 MHz + B66 LTE 5 MHz / 64QAM / High

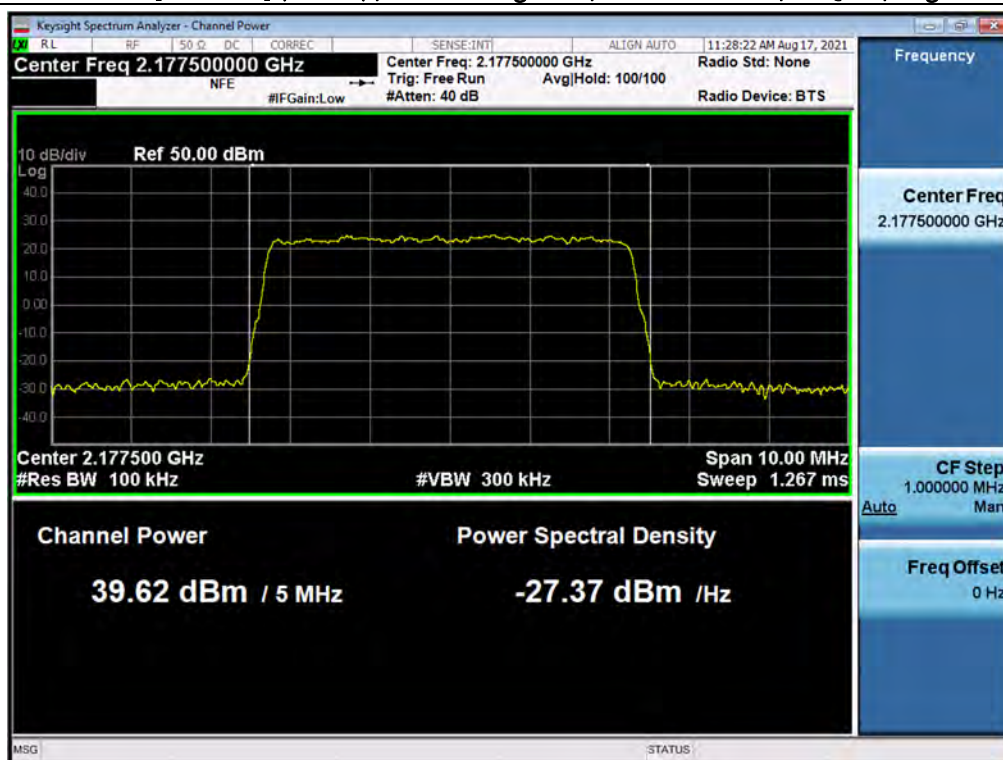




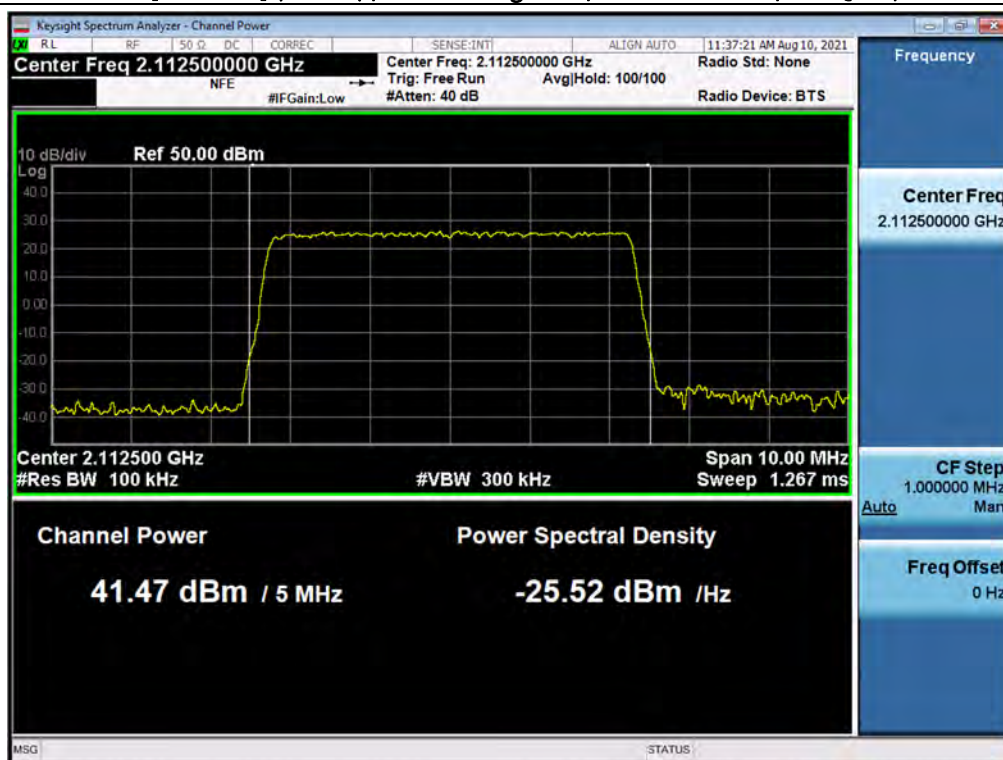
Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 10 MHz + B66 LTE 20 MHz / 16QAM / Low



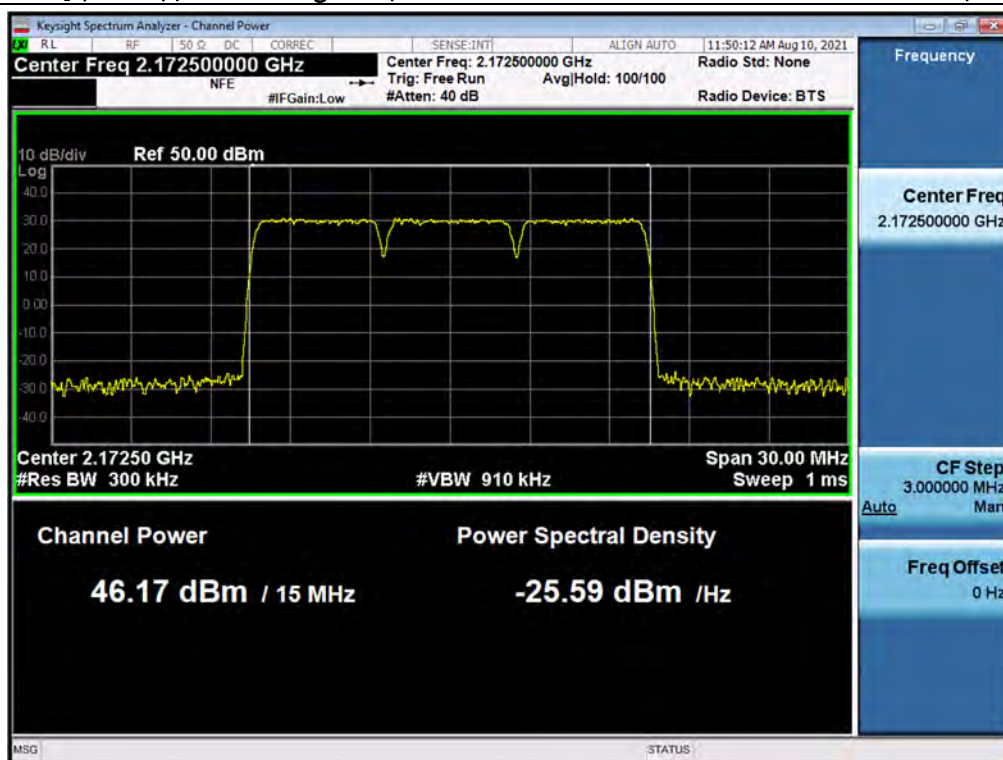
Antenna 1 / (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High



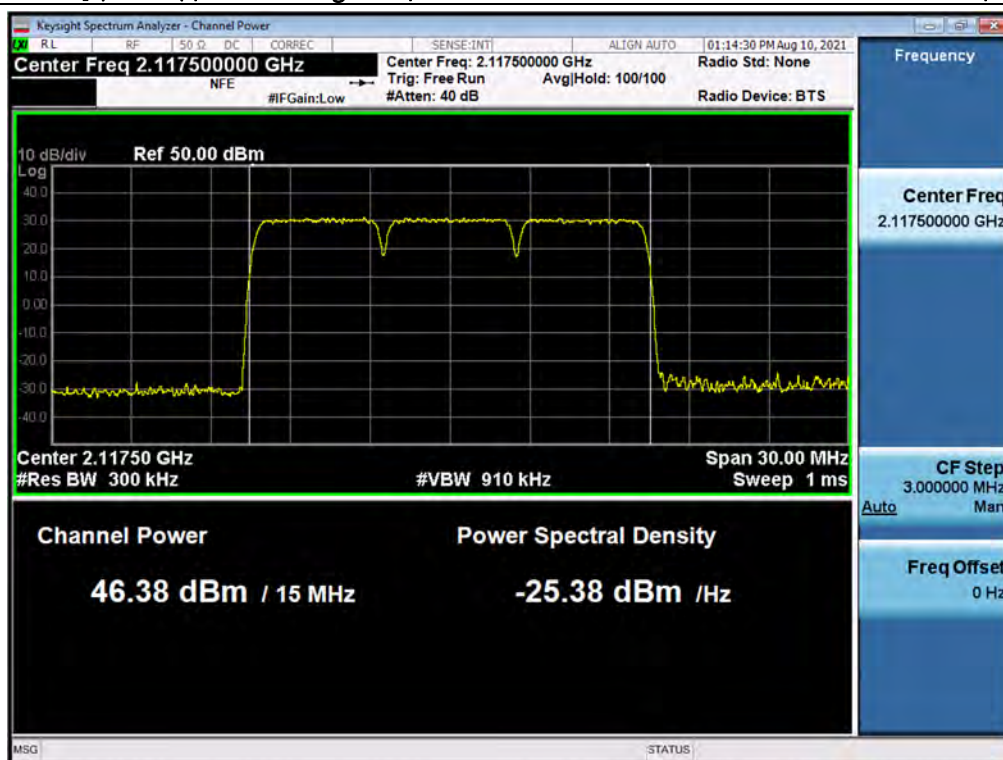
Antenna 1 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 5 MHz / 256QAM / Low



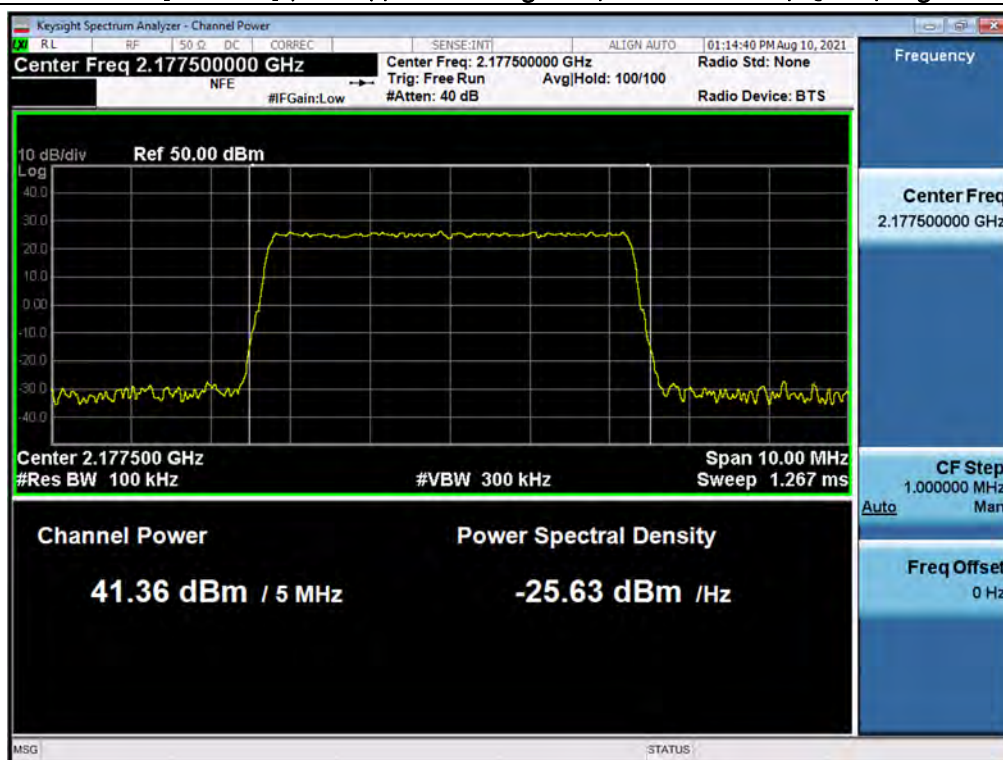
Antenna 1 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 5 MHz + B66 LTE 5 MHz / 256QAM / High



Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 5 MHz + B66 LTE 5 MHz / QPSK / Low

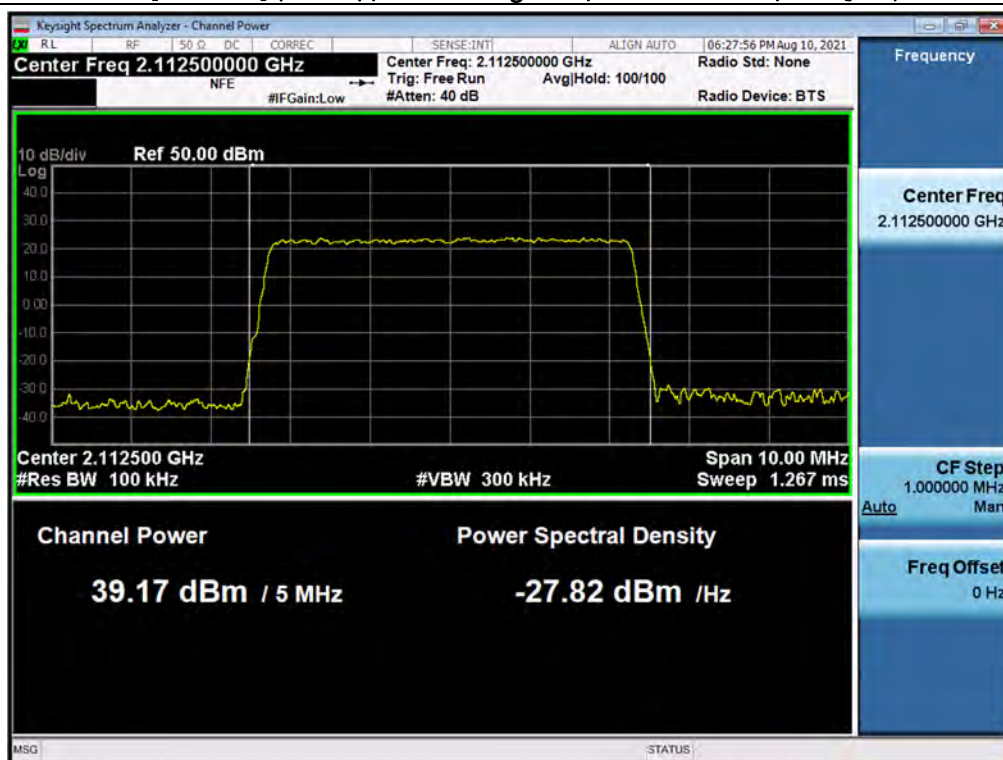


Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz / QPSK / High

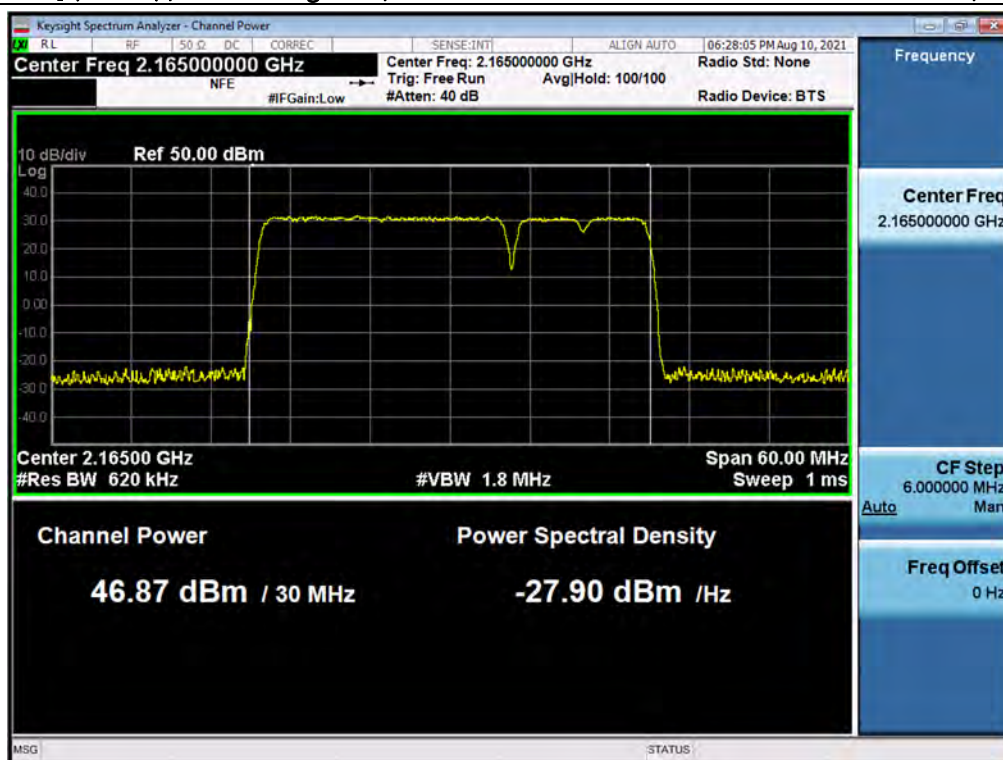




Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 5 MHz / 256QAM / Low

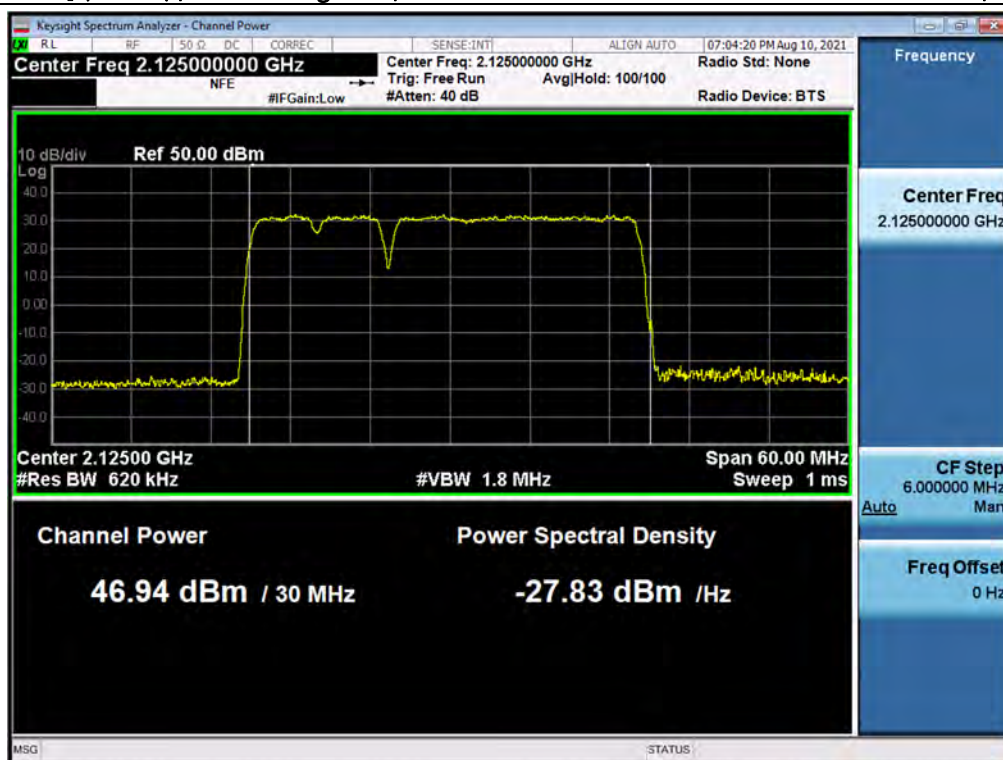


Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 20 MHz + B66 LTE 5 MHz + B66 LTE 5 MHz / 256QAM / High

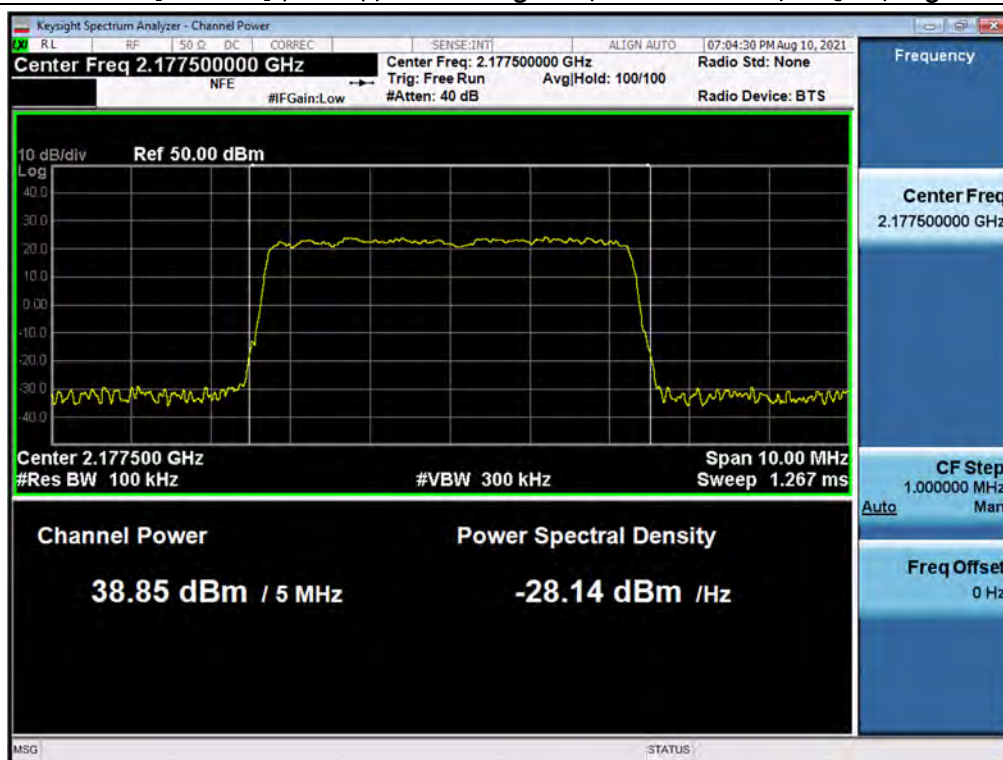




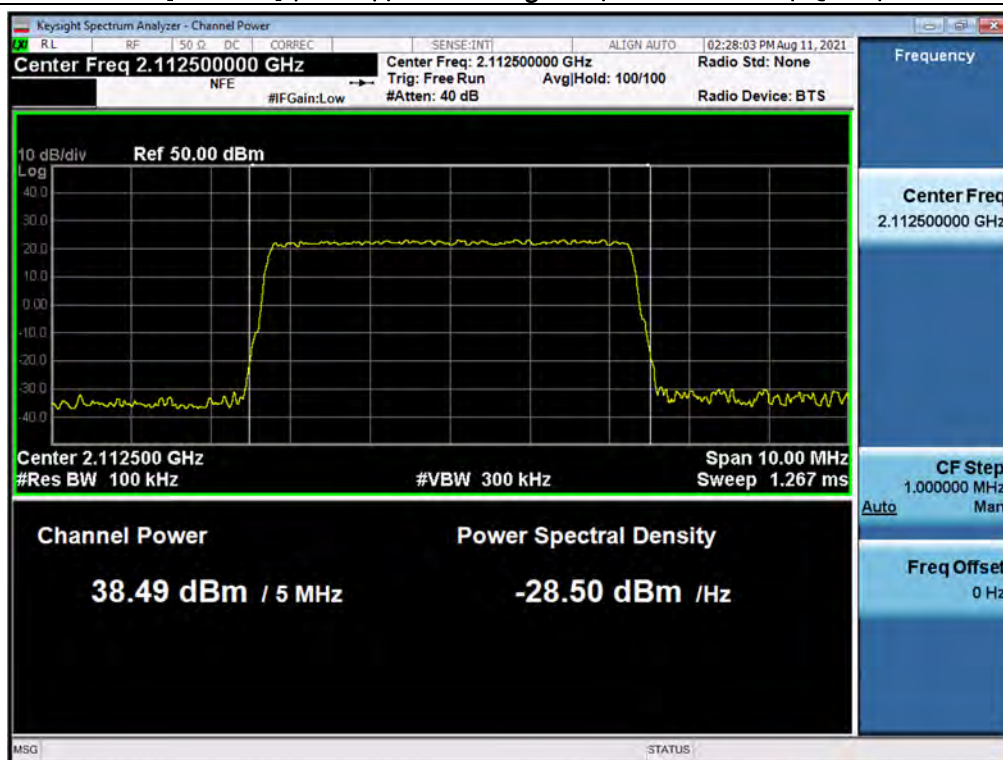
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 5 MHz + B66 LTE 20 MHz / 16QAM / Low



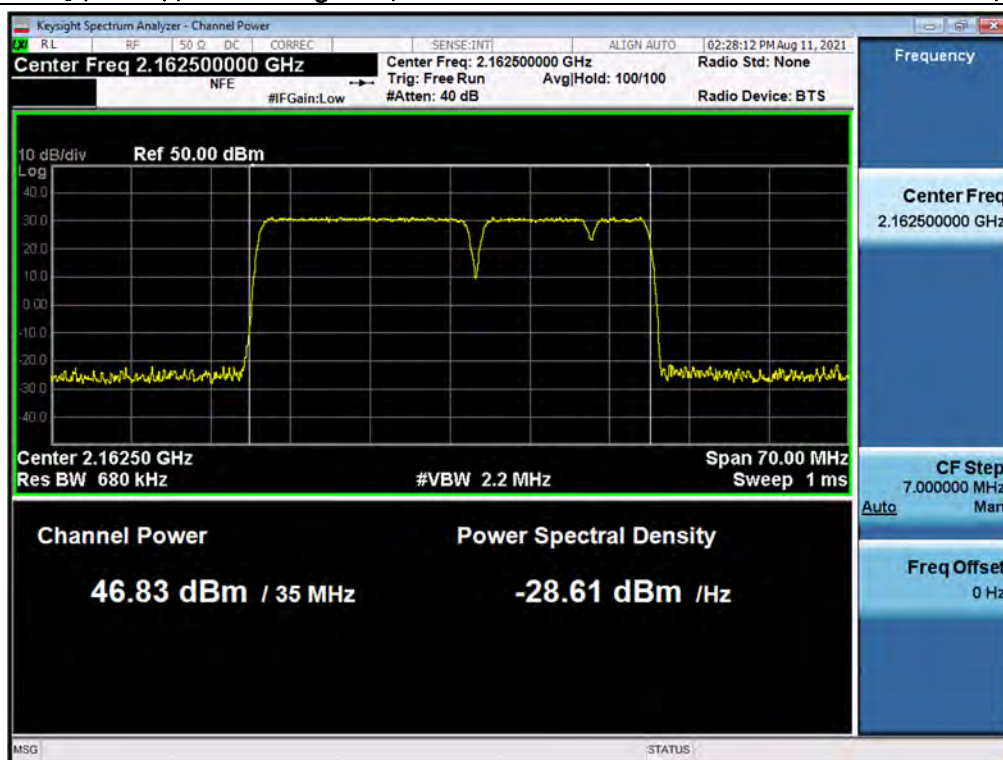
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High



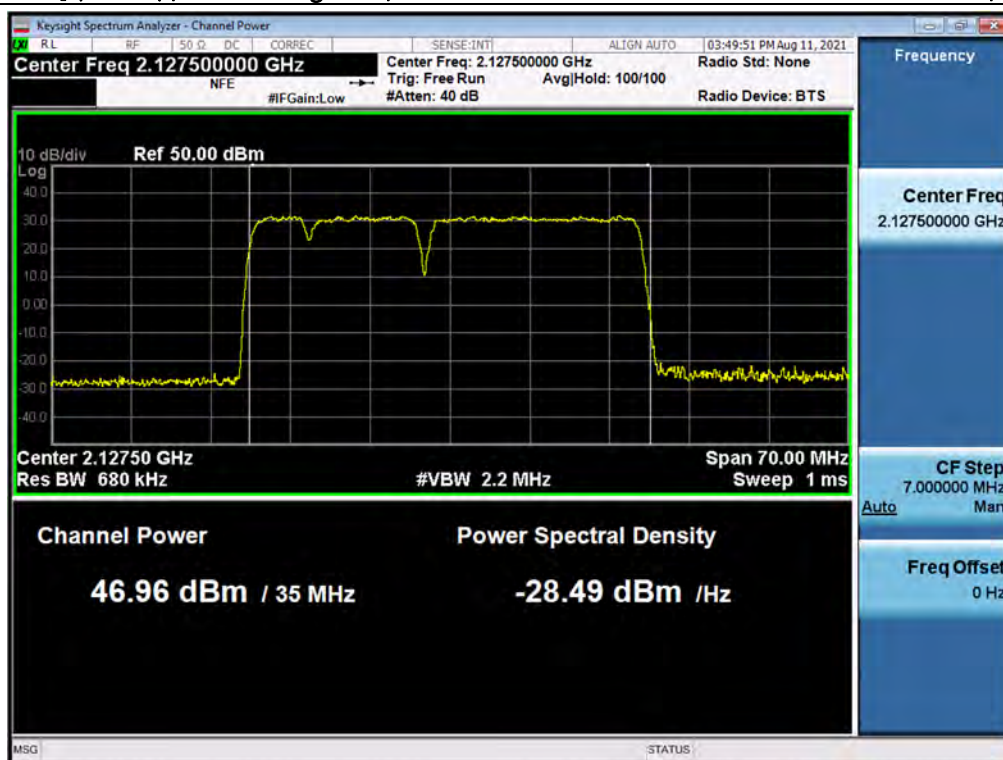
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 5 MHz / QPSK / Low



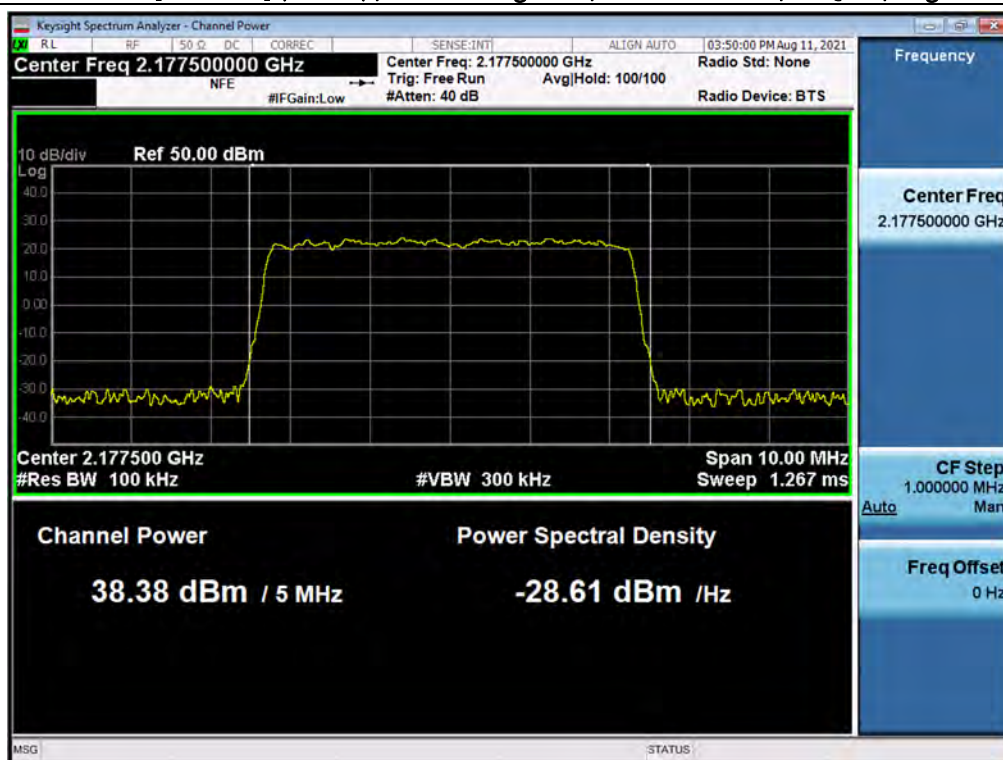
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 LTE 20 MHz + B66 LTE 10 MHz + B66 LTE 5 MHz / QPSK / High



Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz + B66 LTE 10 MHz + B66 LTE 20 MHz / 16QAM / Low



Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High



**Tabular Data of PSD**
**(2 Port) B2 LTE 5 MHz 1 Carrier**

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1933.53            | 39.59                       | 9.10                  |
|      |        | Middle | 1961.04            | 39.99                       | 9.97                  |
|      |        | High   | 1988.14            | 40.15                       | 10.36                 |
|      | 16QAM  | Low    | 1933.23            | 40.11                       | 10.25                 |
|      |        | Middle | 1961.13            | 40.30                       | 10.71                 |
|      |        | High   | 1988.63            | 40.76                       | 11.90                 |
|      | 64QAM  | Low    | 1933.97            | 39.58                       | 9.07                  |
|      |        | Middle | 1960.60            | 39.86                       | 9.68                  |
|      |        | High   | 1986.07            | 40.00                       | 10.00                 |
|      | 256QAM | Low    | 1932.80            | 39.65                       | 9.22                  |
|      |        | Middle | 1960.14            | 40.23                       | 10.54                 |
|      |        | High   | 1986.80            | 40.12                       | 10.28                 |
| 1    | QPSK   | Low    | 1933.99            | 39.62                       | 9.16                  |
|      |        | Middle | 1960.66            | 40.23                       | 10.54                 |
|      |        | High   | 1988.43            | 40.25                       | 10.59                 |
|      | 16QAM  | Low    | 1933.28            | 40.09                       | 10.21                 |
|      |        | Middle | 1961.00            | 40.38                       | 10.92                 |
|      |        | High   | 1988.32            | 40.44                       | 11.07                 |
|      | 64QAM  | Low    | 1931.95            | 39.66                       | 9.24                  |
|      |        | Middle | 1960.64            | 40.08                       | 10.19                 |
|      |        | High   | 1985.95            | 40.27                       | 10.64                 |
|      | 256QAM | Low    | 1932.86            | 39.57                       | 9.05                  |
|      |        | Middle | 1959.46            | 40.23                       | 10.55                 |
|      |        | High   | 1986.78            | 40.26                       | 10.63                 |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1932.86         | 18.26 | 20.46 | 18.32 | 18.27  |
| 1959.46         | 20.52 | 21.63 | 19.87 | 21.09  |
| 1986.78         | 20.95 | 22.98 | 20.64 | 20.91  |



## (2 Port) B2 LTE 10 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1937.20            | 38.34                       | 6.82                  |
|      |        | Middle | 1959.34            | 38.78                       | 7.55                  |
|      |        | High   | 1981.70            | 38.80                       | 7.59                  |
|      | 16QAM  | Low    | 1938.48            | 38.75                       | 7.49                  |
|      |        | Middle | 1959.74            | 39.02                       | 7.98                  |
|      |        | High   | 1984.12            | 39.16                       | 8.24                  |
|      | 64QAM  | Low    | 1935.02            | 38.34                       | 6.82                  |
|      |        | Middle | 1958.00            | 38.75                       | 7.50                  |
|      |        | High   | 1986.38            | 38.88                       | 7.73                  |
|      | 256QAM | Low    | 1938.50            | 38.51                       | 7.10                  |
|      |        | Middle | 1957.60            | 38.98                       | 7.91                  |
|      |        | High   | 1981.92            | 39.21                       | 8.33                  |
| 1    | QPSK   | Low    | 1936.38            | 38.38                       | 6.89                  |
|      |        | Middle | 1962.68            | 38.74                       | 7.48                  |
|      |        | High   | 1982.32            | 39.05                       | 8.04                  |
|      | 16QAM  | Low    | 1934.92            | 38.81                       | 7.61                  |
|      |        | Middle | 1962.24            | 39.07                       | 8.08                  |
|      |        | High   | 1984.92            | 39.26                       | 8.43                  |
|      | 64QAM  | Low    | 1935.82            | 38.29                       | 6.74                  |
|      |        | Middle | 1963.04            | 38.93                       | 7.81                  |
|      |        | High   | 1985.00            | 39.03                       | 8.00                  |
|      | 256QAM | Low    | 1935.94            | 38.26                       | 6.70                  |
|      |        | Middle | 1957.66            | 38.88                       | 7.73                  |
|      |        | High   | 1982.94            | 39.00                       | 7.95                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1935.94         | 13.71 | 15.10 | 13.57 | 13.80  |
| 1957.66         | 15.03 | 16.05 | 15.31 | 15.65  |
| 1982.94         | 15.64 | 16.67 | 15.73 | 16.28  |

## (2 Port) B2 LTE 15 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1943.44            | 36.49                       | 4.45                  |
|      |        | Middle | 1964.92            | 37.08                       | 5.11                  |
|      |        | High   | 1988.11            | 37.12                       | 5.15                  |
|      | 16QAM  | Low    | 1937.41            | 37.35                       | 5.43                  |
|      |        | Middle | 1960.27            | 37.60                       | 5.76                  |
|      |        | High   | 1982.26            | 38.01                       | 6.32                  |
|      | 64QAM  | Low    | 1942.72            | 36.61                       | 4.58                  |
|      |        | Middle | 1956.01            | 37.04                       | 5.06                  |
|      |        | High   | 1977.31            | 37.07                       | 5.10                  |
|      | 256QAM | Low    | 1942.06            | 36.60                       | 4.58                  |
|      |        | Middle | 1958.44            | 37.03                       | 5.05                  |
|      |        | High   | 1982.71            | 37.12                       | 5.15                  |
| 1    | QPSK   | Low    | 1942.87            | 36.86                       | 4.86                  |
|      |        | Middle | 1965.79            | 37.09                       | 5.12                  |
|      |        | High   | 1979.65            | 37.28                       | 5.34                  |
|      | 16QAM  | Low    | 1932.28            | 37.11                       | 5.14                  |
|      |        | Middle | 1955.65            | 37.45                       | 5.56                  |
|      |        | High   | 1982.65            | 37.75                       | 5.96                  |
|      | 64QAM  | Low    | 1937.08            | 36.60                       | 4.57                  |
|      |        | Middle | 1959.49            | 36.99                       | 5.01                  |
|      |        | High   | 1982.02            | 37.29                       | 5.35                  |
|      | 256QAM | Low    | 1942.93            | 36.79                       | 4.78                  |
|      |        | Middle | 1959.07            | 36.93                       | 4.94                  |
|      |        | High   | 1981.12            | 37.38                       | 5.47                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1942.93         | 9.31  | 10.57 | 9.15  | 9.36   |
| 1959.07         | 10.23 | 11.32 | 10.07 | 9.98   |
| 1981.12         | 10.50 | 12.28 | 10.45 | 10.62  |

## (2 Port) B2 LTE 20 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1947.28            | 35.53                       | 3.57                  |
|      |        | Middle | 1964.44            | 35.89                       | 3.88                  |
|      |        | High   | 1978.24            | 35.84                       | 3.84                  |
|      | 16QAM  | Low    | 1944.16            | 35.90                       | 3.89                  |
|      |        | Middle | 1963.20            | 35.90                       | 3.89                  |
|      |        | High   | 1974.04            | 36.28                       | 4.24                  |
|      | 64QAM  | Low    | 1945.32            | 35.52                       | 3.56                  |
|      |        | Middle | 1961.88            | 36.11                       | 4.09                  |
|      |        | High   | 1973.56            | 35.87                       | 3.86                  |
|      | 256QAM | Low    | 1947.88            | 35.61                       | 3.64                  |
|      |        | Middle | 1957.56            | 35.61                       | 3.64                  |
|      |        | High   | 1980.88            | 35.90                       | 3.89                  |
| 1    | QPSK   | Low    | 1945.84            | 35.49                       | 3.54                  |
|      |        | Middle | 1965.08            | 35.90                       | 3.89                  |
|      |        | High   | 1983.72            | 35.80                       | 3.80                  |
|      | 16QAM  | Low    | 1940.84            | 35.52                       | 3.56                  |
|      |        | Middle | 1954.36            | 36.04                       | 4.02                  |
|      |        | High   | 1974.40            | 36.22                       | 4.19                  |
|      | 64QAM  | Low    | 1943.20            | 35.79                       | 3.80                  |
|      |        | Middle | 1957.68            | 35.99                       | 3.97                  |
|      |        | High   | 1986.40            | 35.85                       | 3.85                  |
|      | 256QAM | Low    | 1945.28            | 35.54                       | 3.58                  |
|      |        | Middle | 1965.96            | 35.69                       | 3.71                  |
|      |        | High   | 1982.36            | 35.95                       | 3.94                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1945.28         | 7.11  | 7.46  | 7.36  | 7.23   |
| 1965.96         | 7.77  | 7.92  | 8.05  | 7.34   |
| 1982.36         | 7.64  | 8.43  | 7.71  | 7.83   |



## (4 Port) B2 LTE 5 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1931.55            | 36.51                       | 4.48                  |
|      |        | Middle | 1961.20            | 37.18                       | 5.23                  |
|      |        | High   | 1986.84            | 37.38                       | 5.46                  |
|      | 16QAM  | Low    | 1933.31            | 36.98                       | 4.98                  |
|      |        | Middle | 1960.79            | 37.71                       | 5.90                  |
|      |        | High   | 1986.33            | 37.59                       | 5.75                  |
|      | 64QAM  | Low    | 1933.41            | 36.97                       | 4.98                  |
|      |        | Middle | 1959.01            | 37.27                       | 5.33                  |
|      |        | High   | 1988.22            | 37.36                       | 5.45                  |
|      | 256QAM | Low    | 1934.02            | 36.70                       | 4.68                  |
|      |        | Middle | 1959.02            | 37.20                       | 5.25                  |
|      |        | High   | 1988.54            | 37.42                       | 5.51                  |
| 1    | QPSK   | Low    | 1931.47            | 36.49                       | 4.46                  |
|      |        | Middle | 1961.11            | 37.35                       | 5.43                  |
|      |        | High   | 1986.55            | 37.49                       | 5.61                  |
|      | 16QAM  | Low    | 1932.83            | 37.29                       | 5.35                  |
|      |        | Middle | 1960.94            | 37.60                       | 5.75                  |
|      |        | High   | 1988.70            | 37.87                       | 6.13                  |
|      | 64QAM  | Low    | 1933.40            | 36.92                       | 4.92                  |
|      |        | Middle | 1958.51            | 37.08                       | 5.10                  |
|      |        | High   | 1986.56            | 37.33                       | 5.41                  |
|      | 256QAM | Low    | 1934.07            | 36.43                       | 4.40                  |
|      |        | Middle | 1959.75            | 37.27                       | 5.34                  |
|      |        | High   | 1987.39            | 37.68                       | 5.86                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 1933.67            | 36.58                       | 4.55                  |
|      |        | Middle | 1960.65            | 36.80                       | 4.79                  |
|      |        | High   | 1986.69            | 37.33                       | 5.41                  |
|      | 16QAM  | Low    | 1933.73            | 36.95                       | 4.96                  |
|      |        | Middle | 1961.03            | 37.38                       | 5.47                  |
|      |        | High   | 1988.55            | 37.29                       | 5.36                  |
|      | 64QAM  | Low    | 1933.40            | 36.74                       | 4.72                  |
|      |        | Middle | 1961.61            | 36.93                       | 4.94                  |
|      |        | High   | 1987.98            | 36.98                       | 4.98                  |
|      | 256QAM | Low    | 1933.38            | 36.41                       | 4.37                  |
|      |        | Middle | 1959.35            | 36.97                       | 4.98                  |
|      |        | High   | 1986.86            | 36.91                       | 4.91                  |
| 3    | QPSK   | Low    | 1932.13            | 36.50                       | 4.47                  |
|      |        | Middle | 1959.49            | 37.03                       | 5.05                  |
|      |        | High   | 1986.18            | 37.10                       | 5.13                  |
|      | 16QAM  | Low    | 1933.42            | 36.93                       | 4.94                  |
|      |        | Middle | 1960.83            | 37.41                       | 5.51                  |
|      |        | High   | 1988.48            | 37.56                       | 5.70                  |
|      | 64QAM  | Low    | 1933.37            | 36.47                       | 4.43                  |
|      |        | Middle | 1960.92            | 37.04                       | 5.06                  |
|      |        | High   | 1987.07            | 36.94                       | 4.94                  |
|      | 256QAM | Low    | 1933.49            | 36.59                       | 4.56                  |
|      |        | Middle | 1959.09            | 36.87                       | 4.87                  |
|      |        | High   | 1987.22            | 37.32                       | 5.40                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1933.49         | 17.96 | 20.23 | 19.05 | 18.01  |
| 1959.09         | 20.49 | 22.64 | 20.43 | 20.43  |
| 1987.22         | 21.61 | 22.94 | 20.78 | 21.67  |

## (4 Port) B2 LTE 10 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1937.20            | 36.94                       | 4.94                  |
|      |        | Middle | 1959.10            | 37.30                       | 5.37                  |
|      |        | High   | 1983.82            | 37.29                       | 5.36                  |
|      | 16QAM  | Low    | 1934.84            | 37.14                       | 5.17                  |
|      |        | Middle | 1961.80            | 37.51                       | 5.63                  |
|      |        | High   | 1984.30            | 37.37                       | 5.45                  |
|      | 64QAM  | Low    | 1936.70            | 36.85                       | 4.84                  |
|      |        | Middle | 1963.84            | 37.20                       | 5.25                  |
|      |        | High   | 1982.62            | 37.40                       | 5.50                  |
|      | 256QAM | Low    | 1936.80            | 36.91                       | 4.91                  |
|      |        | Middle | 1960.00            | 37.48                       | 5.60                  |
|      |        | High   | 1982.56            | 37.24                       | 5.30                  |
| 1    | QPSK   | Low    | 1935.20            | 36.63                       | 4.60                  |
|      |        | Middle | 1961.50            | 37.41                       | 5.51                  |
|      |        | High   | 1986.38            | 37.42                       | 5.53                  |
|      | 16QAM  | Low    | 1935.14            | 36.96                       | 4.97                  |
|      |        | Middle | 1959.26            | 37.69                       | 5.87                  |
|      |        | High   | 1984.80            | 37.70                       | 5.88                  |
|      | 64QAM  | Low    | 1936.54            | 36.67                       | 4.64                  |
|      |        | Middle | 1961.60            | 37.31                       | 5.38                  |
|      |        | High   | 1985.82            | 37.33                       | 5.41                  |
|      | 256QAM | Low    | 1937.18            | 36.93                       | 4.93                  |
|      |        | Middle | 1959.54            | 37.15                       | 5.19                  |
|      |        | High   | 1982.28            | 37.30                       | 5.37                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 1937.52            | 36.62                       | 4.59                  |
|      |        | Middle | 1957.88            | 36.86                       | 4.86                  |
|      |        | High   | 1982.78            | 37.00                       | 5.01                  |
|      | 16QAM  | Low    | 1938.78            | 36.96                       | 4.96                  |
|      |        | Middle | 1959.92            | 37.03                       | 5.04                  |
|      |        | High   | 1984.22            | 37.16                       | 5.20                  |
|      | 64QAM  | Low    | 1937.82            | 36.44                       | 4.40                  |
|      |        | Middle | 1960.40            | 36.92                       | 4.92                  |
|      |        | High   | 1984.18            | 37.00                       | 5.02                  |
|      | 256QAM | Low    | 1935.74            | 36.74                       | 4.72                  |
|      |        | Middle | 1958.36            | 36.76                       | 4.74                  |
|      |        | High   | 1985.34            | 36.88                       | 4.88                  |
| 3    | QPSK   | Low    | 1935.80            | 36.56                       | 4.52                  |
|      |        | Middle | 1958.18            | 36.94                       | 4.95                  |
|      |        | High   | 1986.88            | 37.06                       | 5.08                  |
|      | 16QAM  | Low    | 1938.36            | 36.88                       | 4.88                  |
|      |        | Middle | 1962.60            | 37.36                       | 5.45                  |
|      |        | High   | 1985.24            | 37.33                       | 5.41                  |
|      | 64QAM  | Low    | 1936.58            | 36.49                       | 4.46                  |
|      |        | Middle | 1958.10            | 36.92                       | 4.92                  |
|      |        | High   | 1982.94            | 36.99                       | 5.00                  |
|      | 256QAM | Low    | 1936.02            | 36.62                       | 4.59                  |
|      |        | Middle | 1958.12            | 36.94                       | 4.95                  |
|      |        | High   | 1986.08            | 36.96                       | 4.96                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1936.02         | 18.66 | 19.99 | 18.35 | 19.14  |
| 1958.12         | 20.68 | 21.99 | 20.48 | 20.48  |
| 1986.08         | 20.97 | 21.95 | 20.92 | 20.51  |

## (4 Port) B2 LTE 15 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1941.22            | 35.06                       | 3.21                  |
|      |        | Middle | 1962.22            | 35.26                       | 3.36                  |
|      |        | High   | 1983.58            | 35.37                       | 3.45                  |
|      | 16QAM  | Low    | 1937.59            | 35.77                       | 3.77                  |
|      |        | Middle | 1959.88            | 35.76                       | 3.77                  |
|      |        | High   | 1982.56            | 36.31                       | 4.28                  |
|      | 64QAM  | Low    | 1937.38            | 35.19                       | 3.30                  |
|      |        | Middle | 1965.76            | 35.36                       | 3.44                  |
|      |        | High   | 1981.00            | 35.48                       | 3.53                  |
|      | 256QAM | Low    | 1933.93            | 35.00                       | 3.16                  |
|      |        | Middle | 1962.88            | 35.21                       | 3.32                  |
|      |        | High   | 1982.17            | 35.75                       | 3.76                  |
| 1    | QPSK   | Low    | 1942.72            | 35.44                       | 3.50                  |
|      |        | Middle | 1963.30            | 35.75                       | 3.76                  |
|      |        | High   | 1982.98            | 35.87                       | 3.87                  |
|      | 16QAM  | Low    | 1937.44            | 35.94                       | 3.93                  |
|      |        | Middle | 1959.94            | 36.44                       | 4.40                  |
|      |        | High   | 1982.59            | 36.86                       | 4.85                  |
|      | 64QAM  | Low    | 1943.08            | 35.36                       | 3.44                  |
|      |        | Middle | 1964.47            | 35.83                       | 3.83                  |
|      |        | High   | 1982.20            | 35.85                       | 3.85                  |
|      | 256QAM | Low    | 1937.80            | 35.27                       | 3.37                  |
|      |        | Middle | 1961.20            | 35.69                       | 3.71                  |
|      |        | High   | 1984.36            | 35.85                       | 3.85                  |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm/MHz) | Calculated (W/MHz) |
|------|--------|--------|-----------------|--------------------------|--------------------|
| 2    | QPSK   | Low    | 1941.07         | 35.12                    | 3.25               |
|      |        | Middle | 1957.63         | 35.57                    | 3.60               |
|      |        | High   | 1986.37         | 35.50                    | 3.55               |
|      | 16QAM  | Low    | 1937.77         | 35.74                    | 3.75               |
|      |        | Middle | 1959.61         | 36.41                    | 4.38               |
|      |        | High   | 1982.17         | 36.24                    | 4.20               |
|      | 64QAM  | Low    | 1943.02         | 35.04                    | 3.19               |
|      |        | Middle | 1955.47         | 35.65                    | 3.67               |
|      |        | High   | 1985.02         | 35.84                    | 3.84               |
|      | 256QAM | Low    | 1942.78         | 35.10                    | 3.23               |
|      |        | Middle | 1963.18         | 35.57                    | 3.60               |
|      |        | High   | 1978.36         | 35.80                    | 3.80               |
| 3    | QPSK   | Low    | 1939.99         | 35.20                    | 3.31               |
|      |        | Middle | 1961.56         | 35.66                    | 3.69               |
|      |        | High   | 1980.10         | 35.62                    | 3.65               |
|      | 16QAM  | Low    | 1933.03         | 35.78                    | 3.78               |
|      |        | Middle | 1959.76         | 36.14                    | 4.11               |
|      |        | High   | 1982.71         | 36.36                    | 4.32               |
|      | 64QAM  | Low    | 1942.96         | 34.94                    | 3.12               |
|      |        | Middle | 1957.78         | 35.63                    | 3.66               |
|      |        | High   | 1977.19         | 35.76                    | 3.76               |
|      | 256QAM | Low    | 1942.30         | 35.05                    | 3.20               |
|      |        | Middle | 1954.78         | 35.77                    | 3.78               |
|      |        | High   | 1980.88         | 35.82                    | 3.82               |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1942.30         | 13.27 | 15.24 | 13.05 | 12.96  |
| 1954.78         | 14.41 | 16.66 | 14.60 | 14.41  |
| 1980.88         | 14.51 | 17.65 | 14.98 | 15.23  |

## (4 Port) B2 LTE 20 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1943.40            | 33.67                       | 2.33                  |
|      |        | Middle | 1958.48            | 34.13                       | 2.59                  |
|      |        | High   | 1984.96            | 34.08                       | 2.56                  |
|      | 16QAM  | Low    | 1947.32            | 34.29                       | 2.69                  |
|      |        | Middle | 1954.32            | 34.71                       | 2.95                  |
|      |        | High   | 1974.48            | 34.58                       | 2.87                  |
|      | 64QAM  | Low    | 1940.24            | 33.67                       | 2.33                  |
|      |        | Middle | 1955.32            | 34.44                       | 2.78                  |
|      |        | High   | 1978.08            | 34.32                       | 2.70                  |
|      | 256QAM | Low    | 1947.28            | 33.81                       | 2.40                  |
|      |        | Middle | 1966.04            | 34.18                       | 2.62                  |
|      |        | High   | 1976.04            | 34.13                       | 2.59                  |
| 1    | QPSK   | Low    | 1946.40            | 34.12                       | 2.58                  |
|      |        | Middle | 1955.48            | 34.54                       | 2.85                  |
|      |        | High   | 1984.48            | 34.71                       | 2.96                  |
|      | 16QAM  | Low    | 1934.36            | 34.65                       | 2.92                  |
|      |        | Middle | 1954.52            | 34.71                       | 2.96                  |
|      |        | High   | 1974.12            | 34.84                       | 3.05                  |
|      | 64QAM  | Low    | 1948.00            | 34.05                       | 2.54                  |
|      |        | Middle | 1960.48            | 34.34                       | 2.71                  |
|      |        | High   | 1974.72            | 34.44                       | 2.78                  |
|      | 256QAM | Low    | 1946.84            | 34.22                       | 2.64                  |
|      |        | Middle | 1952.60            | 34.45                       | 2.79                  |
|      |        | High   | 1972.52            | 34.72                       | 2.97                  |



| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 1938.44            | 34.40                       | 2.75                  |
|      |        | Middle | 1961.64            | 34.28                       | 2.68                  |
|      |        | High   | 1972.48            | 34.37                       | 2.73                  |
|      | 16QAM  | Low    | 1934.28            | 34.09                       | 2.56                  |
|      |        | Middle | 1954.24            | 34.43                       | 2.77                  |
|      |        | High   | 1974.40            | 34.98                       | 3.14                  |
|      | 64QAM  | Low    | 1943.32            | 33.92                       | 2.47                  |
|      |        | Middle | 1962.40            | 34.34                       | 2.71                  |
|      |        | High   | 1980.44            | 34.34                       | 2.72                  |
|      | 256QAM | Low    | 1940.00            | 33.74                       | 2.36                  |
|      |        | Middle | 1961.20            | 34.35                       | 2.72                  |
|      |        | High   | 1980.84            | 34.33                       | 2.71                  |
| 3    | QPSK   | Low    | 1943.04            | 33.95                       | 2.48                  |
|      |        | Middle | 1964.76            | 34.29                       | 2.69                  |
|      |        | High   | 1973.68            | 34.27                       | 2.67                  |
|      | 16QAM  | Low    | 1947.20            | 34.10                       | 2.57                  |
|      |        | Middle | 1957.84            | 34.57                       | 2.87                  |
|      |        | High   | 1974.36            | 34.51                       | 2.82                  |
|      | 64QAM  | Low    | 1946.56            | 34.11                       | 2.57                  |
|      |        | Middle | 1967.32            | 34.22                       | 2.64                  |
|      |        | High   | 1972.20            | 34.34                       | 2.71                  |
|      | 256QAM | Low    | 1945.72            | 33.91                       | 2.46                  |
|      |        | Middle | 1968.00            | 34.44                       | 2.78                  |
|      |        | High   | 1975.44            | 34.35                       | 2.73                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1945.72         | 10.14 | 10.75 | 9.92  | 9.87   |
| 1968.00         | 10.80 | 11.55 | 10.85 | 10.90  |
| 1975.44         | 10.92 | 11.89 | 10.91 | 10.99  |

## (2 Port) B66 LTE 5 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2113.56            | 39.76                       | 9.45                  |
|      |        | Middle | 2144.99            | 39.83                       | 9.62                  |
|      |        | High   | 2178.35            | 39.98                       | 9.96                  |
|      | 16QAM  | Low    | 2113.24            | 40.14                       | 10.34                 |
|      |        | Middle | 2145.71            | 40.35                       | 10.84                 |
|      |        | High   | 2178.59            | 40.33                       | 10.79                 |
|      | 64QAM  | Low    | 2113.49            | 39.93                       | 9.84                  |
|      |        | Middle | 2146.25            | 40.19                       | 10.46                 |
|      |        | High   | 2178.58            | 39.85                       | 9.66                  |
|      | 256QAM | Low    | 2113.22            | 39.95                       | 9.88                  |
|      |        | Middle | 2143.80            | 39.97                       | 9.93                  |
|      |        | High   | 2176.64            | 39.99                       | 9.98                  |
| 1    | QPSK   | Low    | 2112.22            | 40.12                       | 10.28                 |
|      |        | Middle | 2144.26            | 40.22                       | 10.52                 |
|      |        | High   | 2177.26            | 40.05                       | 10.13                 |
|      | 16QAM  | Low    | 2112.39            | 40.16                       | 10.37                 |
|      |        | Middle | 2146.16            | 40.38                       | 10.91                 |
|      |        | High   | 2176.89            | 40.30                       | 10.71                 |
|      | 64QAM  | Low    | 2113.58            | 39.89                       | 9.74                  |
|      |        | Middle | 2144.94            | 40.08                       | 10.18                 |
|      |        | High   | 2176.15            | 40.17                       | 10.41                 |
|      | 256QAM | Low    | 2111.59            | 39.90                       | 9.78                  |
|      |        | Middle | 2145.40            | 40.09                       | 10.21                 |
|      |        | High   | 2176.19            | 40.05                       | 10.12                 |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2111.59         | 19.73 | 20.71 | 19.59 | 19.66  |
| 2145.40         | 20.14 | 21.76 | 20.64 | 20.14  |
| 2176.19         | 20.08 | 21.49 | 20.08 | 20.10  |

## (2 Port) B66 LTE 10 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2118.02            | 39.94                       | 9.86                  |
|      |        | Middle | 2147.62            | 40.23                       | 10.55                 |
|      |        | High   | 2171.98            | 40.13                       | 10.31                 |
|      | 16QAM  | Low    | 2114.60            | 40.39                       | 10.93                 |
|      |        | Middle | 2144.86            | 40.31                       | 10.73                 |
|      |        | High   | 2174.80            | 40.47                       | 11.14                 |
|      | 64QAM  | Low    | 2117.56            | 39.98                       | 9.94                  |
|      |        | Middle | 2147.96            | 40.03                       | 10.06                 |
|      |        | High   | 2171.26            | 40.05                       | 10.11                 |
|      | 256QAM | Low    | 2115.50            | 39.97                       | 9.93                  |
|      |        | Middle | 2148.24            | 40.07                       | 10.16                 |
|      |        | High   | 2171.66            | 40.22                       | 10.53                 |
| 1    | QPSK   | Low    | 2118.62            | 40.07                       | 10.15                 |
|      |        | Middle | 2146.10            | 40.07                       | 10.15                 |
|      |        | High   | 2173.58            | 40.17                       | 10.41                 |
|      | 16QAM  | Low    | 2118.18            | 40.35                       | 10.83                 |
|      |        | Middle | 2144.70            | 40.63                       | 11.57                 |
|      |        | High   | 2174.78            | 40.56                       | 11.39                 |
|      | 64QAM  | Low    | 2116.96            | 40.12                       | 10.28                 |
|      |        | Middle | 2143.56            | 39.95                       | 9.89                  |
|      |        | High   | 2172.40            | 40.04                       | 10.10                 |
|      | 256QAM | Low    | 2117.76            | 40.00                       | 9.99                  |
|      |        | Middle | 2146.20            | 40.33                       | 10.80                 |
|      |        | High   | 2171.82            | 40.10                       | 10.24                 |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2117.76         | 20.01 | 21.76 | 20.22 | 19.92  |
| 2146.20         | 20.71 | 22.30 | 19.96 | 20.96  |
| 2171.82         | 20.72 | 22.53 | 20.21 | 20.78  |

## (2 Port) B66 LTE 15 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2118.76            | 38.19                       | 6.60                  |
|      |        | Middle | 2145.93            | 38.36                       | 6.85                  |
|      |        | High   | 2169.11            | 38.41                       | 6.93                  |
|      | 16QAM  | Low    | 2117.53            | 39.07                       | 8.07                  |
|      |        | Middle | 2140.38            | 38.82                       | 7.63                  |
|      |        | High   | 2172.86            | 38.81                       | 7.61                  |
|      | 64QAM  | Low    | 2118.16            | 38.14                       | 6.52                  |
|      |        | Middle | 2150.34            | 38.42                       | 6.95                  |
|      |        | High   | 2167.67            | 38.57                       | 7.19                  |
|      | 256QAM | Low    | 2121.97            | 38.23                       | 6.65                  |
|      |        | Middle | 2150.52            | 38.18                       | 6.58                  |
|      |        | High   | 2171.36            | 38.22                       | 6.64                  |
| 1    | QPSK   | Low    | 2122.72            | 38.58                       | 7.21                  |
|      |        | Middle | 2140.50            | 38.61                       | 7.25                  |
|      |        | High   | 2168.57            | 38.44                       | 6.98                  |
|      | 16QAM  | Low    | 2118.13            | 38.90                       | 7.76                  |
|      |        | Middle | 2144.82            | 39.42                       | 8.75                  |
|      |        | High   | 2172.50            | 39.21                       | 8.34                  |
|      | 64QAM  | Low    | 2122.99            | 38.34                       | 6.82                  |
|      |        | Middle | 2140.74            | 38.36                       | 6.85                  |
|      |        | High   | 2172.92            | 38.62                       | 7.27                  |
|      | 256QAM | Low    | 2121.88            | 38.31                       | 6.78                  |
|      |        | Middle | 2141.10            | 38.29                       | 6.74                  |
|      |        | High   | 2172.95            | 38.52                       | 7.12                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2121.88         | 13.82 | 15.83 | 13.34 | 13.44  |
| 2141.10         | 14.10 | 16.38 | 13.80 | 13.33  |
| 2172.95         | 13.91 | 15.95 | 14.47 | 13.76  |

## (2 Port) B66 LTE 20 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2117.64            | 36.96                       | 4.97                  |
|      |        | Middle | 2151.96            | 37.20                       | 5.25                  |
|      |        | High   | 2177.36            | 37.11                       | 5.14                  |
|      | 16QAM  | Low    | 2124.60            | 37.24                       | 5.30                  |
|      |        | Middle | 2139.20            | 37.46                       | 5.57                  |
|      |        | High   | 2164.48            | 37.43                       | 5.54                  |
|      | 64QAM  | Low    | 2118.80            | 37.18                       | 5.22                  |
|      |        | Middle | 2148.28            | 37.01                       | 5.02                  |
|      |        | High   | 2164.00            | 37.02                       | 5.04                  |
|      | 256QAM | Low    | 2119.40            | 37.18                       | 5.23                  |
|      |        | Middle | 2148.60            | 37.13                       | 5.16                  |
|      |        | High   | 2172.08            | 37.11                       | 5.14                  |
| 1    | QPSK   | Low    | 2112.44            | 37.01                       | 5.03                  |
|      |        | Middle | 2137.20            | 37.24                       | 5.30                  |
|      |        | High   | 2165.20            | 37.23                       | 5.28                  |
|      | 16QAM  | Low    | 2123.28            | 37.37                       | 5.46                  |
|      |        | Middle | 2139.24            | 37.75                       | 5.96                  |
|      |        | High   | 2164.16            | 37.42                       | 5.52                  |
|      | 64QAM  | Low    | 2126.28            | 37.28                       | 5.34                  |
|      |        | Middle | 2144.28            | 37.11                       | 5.14                  |
|      |        | High   | 2168.64            | 37.20                       | 5.25                  |
|      | 256QAM | Low    | 2117.96            | 37.32                       | 5.40                  |
|      |        | Middle | 2147.48            | 37.25                       | 5.31                  |
|      |        | High   | 2177.76            | 37.15                       | 5.19                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2117.96         | 10.00 | 10.76 | 10.56 | 10.62  |
| 2147.48         | 10.55 | 11.53 | 10.16 | 10.47  |
| 2177.76         | 10.42 | 11.06 | 10.29 | 10.33  |

## (4 Port) B66 LTE 5 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2112.50            | 37.59                       | 5.75                  |
|      |        | Middle | 2145.00            | 37.78                       | 6.00                  |
|      |        | High   | 2177.50            | 37.11                       | 5.14                  |
|      | 16QAM  | Low    | 2112.50            | 37.94                       | 6.23                  |
|      |        | Middle | 2145.00            | 37.96                       | 6.26                  |
|      |        | High   | 2177.50            | 37.09                       | 5.12                  |
|      | 64QAM  | Low    | 2112.50            | 37.76                       | 5.97                  |
|      |        | Middle | 2145.00            | 37.75                       | 5.96                  |
|      |        | High   | 2177.50            | 37.15                       | 5.19                  |
|      | 256QAM | Low    | 2112.50            | 37.71                       | 5.90                  |
|      |        | Middle | 2145.00            | 37.85                       | 6.10                  |
|      |        | High   | 2177.50            | 37.37                       | 5.46                  |
| 1    | QPSK   | Low    | 2112.50            | 37.31                       | 5.38                  |
|      |        | Middle | 2145.00            | 37.92                       | 6.20                  |
|      |        | High   | 2177.50            | 37.16                       | 5.20                  |
|      | 16QAM  | Low    | 2112.50            | 37.64                       | 5.80                  |
|      |        | Middle | 2145.00            | 38.10                       | 6.45                  |
|      |        | High   | 2177.50            | 37.55                       | 5.69                  |
|      | 64QAM  | Low    | 2112.50            | 37.31                       | 5.38                  |
|      |        | Middle | 2145.00            | 37.95                       | 6.23                  |
|      |        | High   | 2177.50            | 37.36                       | 5.45                  |
|      | 256QAM | Low    | 2112.50            | 37.40                       | 5.50                  |
|      |        | Middle | 2145.00            | 37.62                       | 5.78                  |
|      |        | High   | 2177.50            | 37.03                       | 5.05                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 2112.50            | 37.04                       | 5.06                  |
|      |        | Middle | 2145.00            | 37.70                       | 5.88                  |
|      |        | High   | 2177.50            | 37.07                       | 5.10                  |
|      | 16QAM  | Low    | 2112.50            | 37.39                       | 5.48                  |
|      |        | Middle | 2145.00            | 38.11                       | 6.47                  |
|      |        | High   | 2177.50            | 37.31                       | 5.38                  |
|      | 64QAM  | Low    | 2112.50            | 37.17                       | 5.22                  |
|      |        | Middle | 2145.00            | 37.63                       | 5.79                  |
|      |        | High   | 2177.50            | 36.94                       | 4.95                  |
|      | 256QAM | Low    | 2112.50            | 37.05                       | 5.07                  |
|      |        | Middle | 2145.00            | 37.58                       | 5.73                  |
|      |        | High   | 2177.50            | 37.13                       | 5.16                  |
| 3    | QPSK   | Low    | 2112.50            | 37.32                       | 5.40                  |
|      |        | Middle | 2145.00            | 37.77                       | 5.98                  |
|      |        | High   | 2177.50            | 37.05                       | 5.07                  |
|      | 16QAM  | Low    | 2112.50            | 37.63                       | 5.79                  |
|      |        | Middle | 2145.00            | 37.99                       | 6.29                  |
|      |        | High   | 2177.50            | 37.27                       | 5.34                  |
|      | 64QAM  | Low    | 2112.50            | 37.31                       | 5.38                  |
|      |        | Middle | 2145.00            | 37.71                       | 5.90                  |
|      |        | High   | 2177.50            | 37.09                       | 5.12                  |
|      | 256QAM | Low    | 2112.50            | 37.24                       | 5.29                  |
|      |        | Middle | 2145.00            | 37.75                       | 5.96                  |
|      |        | High   | 2177.50            | 37.18                       | 5.22                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2112.50         | 21.59 | 23.30 | 21.95 | 21.75  |
| 2145.00         | 24.06 | 25.47 | 23.88 | 23.57  |
| 2177.50         | 20.51 | 21.53 | 20.70 | 20.89  |



## (4 Port) B66 LTE 10 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2115.00            | 37.42                       | 5.53                  |
|      |        | Middle | 2145.00            | 38.04                       | 6.36                  |
|      |        | High   | 2175.00            | 38.05                       | 6.38                  |
|      | 16QAM  | Low    | 2115.00            | 37.92                       | 6.20                  |
|      |        | Middle | 2145.00            | 38.10                       | 6.46                  |
|      |        | High   | 2175.00            | 38.33                       | 6.82                  |
|      | 64QAM  | Low    | 2115.00            | 37.61                       | 5.77                  |
|      |        | Middle | 2145.00            | 37.79                       | 6.01                  |
|      |        | High   | 2175.00            | 37.82                       | 6.05                  |
|      | 256QAM | Low    | 2115.00            | 37.46                       | 5.57                  |
|      |        | Middle | 2145.00            | 37.90                       | 6.17                  |
|      |        | High   | 2175.00            | 38.20                       | 6.61                  |
| 1    | QPSK   | Low    | 2115.00            | 37.43                       | 5.54                  |
|      |        | Middle | 2145.00            | 37.84                       | 6.08                  |
|      |        | High   | 2175.00            | 37.75                       | 5.95                  |
|      | 16QAM  | Low    | 2115.00            | 37.67                       | 5.85                  |
|      |        | Middle | 2145.00            | 38.29                       | 6.75                  |
|      |        | High   | 2175.00            | 38.14                       | 6.51                  |
|      | 64QAM  | Low    | 2115.00            | 37.40                       | 5.49                  |
|      |        | Middle | 2145.00            | 37.74                       | 5.94                  |
|      |        | High   | 2175.00            | 37.84                       | 6.08                  |
|      | 256QAM | Low    | 2115.00            | 37.63                       | 5.80                  |
|      |        | Middle | 2145.00            | 37.88                       | 6.14                  |
|      |        | High   | 2175.00            | 37.68                       | 5.86                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 2115.00            | 37.35                       | 5.44                  |
|      |        | Middle | 2145.00            | 37.67                       | 5.85                  |
|      |        | High   | 2175.00            | 37.90                       | 6.16                  |
|      | 16QAM  | Low    | 2115.00            | 37.64                       | 5.81                  |
|      |        | Middle | 2145.00            | 38.00                       | 6.31                  |
|      |        | High   | 2175.00            | 37.89                       | 6.15                  |
|      | 64QAM  | Low    | 2115.00            | 37.37                       | 5.46                  |
|      |        | Middle | 2145.00            | 37.82                       | 6.05                  |
|      |        | High   | 2175.00            | 37.72                       | 5.92                  |
|      | 256QAM | Low    | 2115.00            | 37.44                       | 5.55                  |
|      |        | Middle | 2145.00            | 37.75                       | 5.95                  |
|      |        | High   | 2175.00            | 37.71                       | 5.91                  |
| 3    | QPSK   | Low    | 2115.00            | 37.49                       | 5.61                  |
|      |        | Middle | 2145.00            | 38.12                       | 6.49                  |
|      |        | High   | 2175.00            | 37.86                       | 6.11                  |
|      | 16QAM  | Low    | 2115.00            | 38.03                       | 6.35                  |
|      |        | Middle | 2145.00            | 38.28                       | 6.74                  |
|      |        | High   | 2175.00            | 38.36                       | 6.86                  |
|      | 64QAM  | Low    | 2115.00            | 37.73                       | 5.93                  |
|      |        | Middle | 2145.00            | 37.84                       | 6.08                  |
|      |        | High   | 2175.00            | 38.06                       | 6.40                  |
|      | 256QAM | Low    | 2115.00            | 37.81                       | 6.04                  |
|      |        | Middle | 2145.00            | 37.93                       | 6.21                  |
|      |        | High   | 2175.00            | 37.87                       | 6.12                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2115.00         | 22.11 | 24.20 | 22.65 | 22.96  |
| 2145.00         | 24.79 | 26.26 | 24.08 | 24.47  |
| 2175.00         | 24.61 | 26.34 | 24.45 | 24.49  |

## (4 Port) B66 LTE 15 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2117.50            | 37.45                       | 5.55                  |
|      |        | Middle | 2145.00            | 38.04                       | 6.37                  |
|      |        | High   | 2172.50            | 37.12                       | 5.15                  |
|      | 16QAM  | Low    | 2117.50            | 38.07                       | 6.41                  |
|      |        | Middle | 2145.00            | 38.54                       | 7.15                  |
|      |        | High   | 2172.50            | 37.83                       | 6.06                  |
|      | 64QAM  | Low    | 2117.50            | 37.55                       | 5.68                  |
|      |        | Middle | 2145.00            | 38.10                       | 6.45                  |
|      |        | High   | 2172.50            | 37.17                       | 5.22                  |
|      | 256QAM | Low    | 2117.50            | 37.62                       | 5.78                  |
|      |        | Middle | 2145.00            | 38.03                       | 6.35                  |
|      |        | High   | 2172.50            | 37.08                       | 5.11                  |
| 1    | QPSK   | Low    | 2117.50            | 37.56                       | 5.71                  |
|      |        | Middle | 2145.00            | 37.87                       | 6.12                  |
|      |        | High   | 2172.50            | 37.12                       | 5.15                  |
|      | 16QAM  | Low    | 2117.50            | 38.04                       | 6.37                  |
|      |        | Middle | 2145.00            | 38.61                       | 7.26                  |
|      |        | High   | 2172.50            | 37.80                       | 6.02                  |
|      | 64QAM  | Low    | 2117.50            | 37.48                       | 5.59                  |
|      |        | Middle | 2145.00            | 37.86                       | 6.11                  |
|      |        | High   | 2172.50            | 37.14                       | 5.17                  |
|      | 256QAM | Low    | 2117.50            | 37.58                       | 5.73                  |
|      |        | Middle | 2145.00            | 37.71                       | 5.90                  |
|      |        | High   | 2172.50            | 37.14                       | 5.17                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 2117.50            | 37.57                       | 5.72                  |
|      |        | Middle | 2145.00            | 37.76                       | 5.97                  |
|      |        | High   | 2172.50            | 37.20                       | 5.25                  |
|      | 16QAM  | Low    | 2117.50            | 38.00                       | 6.30                  |
|      |        | Middle | 2145.00            | 38.38                       | 6.88                  |
|      |        | High   | 2172.50            | 37.71                       | 5.91                  |
|      | 64QAM  | Low    | 2117.50            | 37.49                       | 5.61                  |
|      |        | Middle | 2145.00            | 37.71                       | 5.90                  |
|      |        | High   | 2172.50            | 37.16                       | 5.20                  |
|      | 256QAM | Low    | 2117.50            | 37.54                       | 5.67                  |
|      |        | Middle | 2145.00            | 37.72                       | 5.92                  |
|      |        | High   | 2172.50            | 37.01                       | 5.02                  |
| 3    | QPSK   | Low    | 2117.50            | 37.77                       | 5.98                  |
|      |        | Middle | 2145.00            | 37.90                       | 6.16                  |
|      |        | High   | 2172.50            | 37.17                       | 5.21                  |
|      | 16QAM  | Low    | 2117.50            | 38.22                       | 6.64                  |
|      |        | Middle | 2145.00            | 38.67                       | 7.36                  |
|      |        | High   | 2172.50            | 38.13                       | 6.50                  |
|      | 64QAM  | Low    | 2117.50            | 37.88                       | 6.14                  |
|      |        | Middle | 2145.00            | 38.10                       | 6.45                  |
|      |        | High   | 2172.50            | 37.29                       | 5.36                  |
|      | 256QAM | Low    | 2117.50            | 37.62                       | 5.78                  |
|      |        | Middle | 2145.00            | 38.06                       | 6.40                  |
|      |        | High   | 2172.50            | 37.09                       | 5.12                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2117.50         | 22.96 | 25.72 | 23.02 | 22.97  |
| 2145.00         | 24.62 | 28.64 | 24.91 | 24.58  |
| 2172.50         | 20.77 | 24.49 | 20.95 | 20.42  |

## (4 Port) B66 LTE 20 MHz 1 Carrier

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2120.00            | 35.96                       | 3.95                  |
|      |        | Middle | 2145.00            | 36.10                       | 4.07                  |
|      |        | High   | 2170.00            | 36.18                       | 4.15                  |
|      | 16QAM  | Low    | 2120.00            | 36.14                       | 4.12                  |
|      |        | Middle | 2145.00            | 36.49                       | 4.46                  |
|      |        | High   | 2170.00            | 36.75                       | 4.73                  |
|      | 64QAM  | Low    | 2120.00            | 35.95                       | 3.94                  |
|      |        | Middle | 2145.00            | 36.23                       | 4.20                  |
|      |        | High   | 2170.00            | 36.28                       | 4.25                  |
|      | 256QAM | Low    | 2120.00            | 36.16                       | 4.13                  |
|      |        | Middle | 2145.00            | 36.23                       | 4.20                  |
|      |        | High   | 2170.00            | 36.18                       | 4.15                  |
| 1    | QPSK   | Low    | 2120.00            | 35.94                       | 3.93                  |
|      |        | Middle | 2145.00            | 35.78                       | 3.78                  |
|      |        | High   | 2170.00            | 36.02                       | 4.00                  |
|      | 16QAM  | Low    | 2120.00            | 36.36                       | 4.32                  |
|      |        | Middle | 2145.00            | 36.25                       | 4.22                  |
|      |        | High   | 2170.00            | 36.37                       | 4.34                  |
|      | 64QAM  | Low    | 2120.00            | 35.93                       | 3.92                  |
|      |        | Middle | 2145.00            | 35.98                       | 3.96                  |
|      |        | High   | 2170.00            | 36.02                       | 4.00                  |
|      | 256QAM | Low    | 2120.00            | 35.93                       | 3.91                  |
|      |        | Middle | 2145.00            | 36.03                       | 4.01                  |
|      |        | High   | 2170.00            | 35.83                       | 3.83                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 2120.00            | 35.99                       | 3.97                  |
|      |        | Middle | 2145.00            | 36.23                       | 4.20                  |
|      |        | High   | 2170.00            | 36.32                       | 4.28                  |
|      | 16QAM  | Low    | 2120.00            | 36.29                       | 4.25                  |
|      |        | Middle | 2145.00            | 36.61                       | 4.58                  |
|      |        | High   | 2170.00            | 36.55                       | 4.52                  |
|      | 64QAM  | Low    | 2120.00            | 36.22                       | 4.19                  |
|      |        | Middle | 2145.00            | 36.00                       | 3.98                  |
|      |        | High   | 2170.00            | 35.86                       | 3.86                  |
|      | 256QAM | Low    | 2120.00            | 36.15                       | 4.12                  |
|      |        | Middle | 2145.00            | 35.99                       | 3.97                  |
|      |        | High   | 2170.00            | 35.85                       | 3.85                  |
| 3    | QPSK   | Low    | 2120.00            | 36.20                       | 4.16                  |
|      |        | Middle | 2145.00            | 35.89                       | 3.88                  |
|      |        | High   | 2170.00            | 36.24                       | 4.21                  |
|      | 16QAM  | Low    | 2120.00            | 36.11                       | 4.08                  |
|      |        | Middle | 2145.00            | 36.18                       | 4.15                  |
|      |        | High   | 2170.00            | 36.27                       | 4.24                  |
|      | 64QAM  | Low    | 2120.00            | 36.18                       | 4.15                  |
|      |        | Middle | 2145.00            | 36.13                       | 4.10                  |
|      |        | High   | 2170.00            | 35.78                       | 3.78                  |
|      | 256QAM | Low    | 2120.00            | 36.06                       | 4.03                  |
|      |        | Middle | 2145.00            | 35.98                       | 3.97                  |
|      |        | High   | 2170.00            | 35.82                       | 3.82                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2120.00         | 16.01 | 16.77 | 16.19 | 16.19  |
| 2145.00         | 15.93 | 17.41 | 16.24 | 16.15  |
| 2170.00         | 16.64 | 17.83 | 15.89 | 15.64  |

# Tabular Data of Contiguous PSD

## (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1938.20            | 38.22                       | 6.64                  |
|      |        | Middle | 1957.44            | 38.62                       | 7.27                  |
|      |        | High   | 1984.42            | 38.78                       | 7.56                  |
|      | 16QAM  | Low    | 1938.16            | 38.54                       | 7.14                  |
|      |        | Middle | 1957.98            | 38.91                       | 7.78                  |
|      |        | High   | 1983.48            | 39.31                       | 8.54                  |
|      | 64QAM  | Low    | 1937.98            | 38.33                       | 6.80                  |
|      |        | Middle | 1958.26            | 38.65                       | 7.33                  |
|      |        | High   | 1981.46            | 38.76                       | 7.51                  |
|      | 256QAM | Low    | 1938.48            | 38.48                       | 7.04                  |
|      |        | Middle | 1963.48            | 38.81                       | 7.59                  |
|      |        | High   | 1988.14            | 38.99                       | 7.93                  |
| 1    | QPSK   | Low    | 1936.30            | 38.38                       | 6.89                  |
|      |        | Middle | 1961.40            | 39.01                       | 7.95                  |
|      |        | High   | 1989.08            | 39.01                       | 7.96                  |
|      | 16QAM  | Low    | 1932.92            | 38.67                       | 7.37                  |
|      |        | Middle | 1963.74            | 39.08                       | 8.08                  |
|      |        | High   | 1988.50            | 39.67                       | 9.26                  |
|      | 64QAM  | Low    | 1933.30            | 38.39                       | 6.91                  |
|      |        | Middle | 1961.22            | 39.05                       | 8.04                  |
|      |        | High   | 1986.66            | 39.07                       | 8.06                  |
|      | 256QAM | Low    | 1938.54            | 38.28                       | 6.73                  |
|      |        | Middle | 1958.38            | 39.02                       | 7.97                  |
|      |        | High   | 1981.70            | 39.34                       | 8.58                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1938.54         | 13.54 | 14.51 | 13.71 | 13.77  |
| 1958.38         | 15.23 | 15.87 | 15.37 | 15.57  |
| 1981.70         | 15.52 | 17.80 | 15.57 | 16.51  |



## (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1940.50            | 34.56                       | 2.86                  |
|      |        | Middle | 1967.05            | 34.83                       | 3.04                  |
|      |        | High   | 1978.25            | 34.95                       | 3.13                  |
|      | 16QAM  | Low    | 1939.45            | 34.72                       | 2.96                  |
|      |        | Middle | 1966.95            | 35.12                       | 3.25                  |
|      |        | High   | 1973.50            | 35.15                       | 3.27                  |
|      | 64QAM  | Low    | 1950.00            | 34.59                       | 2.87                  |
|      |        | Middle | 1970.20            | 34.91                       | 3.10                  |
|      |        | High   | 1978.10            | 34.91                       | 3.10                  |
|      | 256QAM | Low    | 1950.35            | 34.57                       | 2.87                  |
|      |        | Middle | 1965.85            | 34.78                       | 3.01                  |
|      |        | High   | 1973.75            | 34.88                       | 3.07                  |
| 1    | QPSK   | Low    | 1951.50            | 34.74                       | 2.98                  |
|      |        | Middle | 1949.05            | 34.95                       | 3.13                  |
|      |        | High   | 1979.30            | 35.22                       | 3.32                  |
|      | 16QAM  | Low    | 1939.00            | 34.71                       | 2.96                  |
|      |        | Middle | 1966.55            | 35.31                       | 3.40                  |
|      |        | High   | 1974.35            | 35.27                       | 3.37                  |
|      | 64QAM  | Low    | 1948.45            | 34.57                       | 2.86                  |
|      |        | Middle | 1967.55            | 34.65                       | 2.92                  |
|      |        | High   | 1981.30            | 35.04                       | 3.19                  |
|      | 256QAM | Low    | 1946.85            | 34.64                       | 2.91                  |
|      |        | Middle | 1968.10            | 34.77                       | 3.00                  |
|      |        | High   | 1982.05            | 35.13                       | 3.26                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1938.46         | 5.84  | 5.92  | 5.74  | 5.78   |
| 1950.74         | 6.17  | 6.65  | 6.02  | 6.01   |
| 1988.70         | 6.45  | 6.64  | 6.29  | 6.34   |

## (2 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1951.30            | 33.72                       | 2.35                  |
|      |        | Middle | 1970.86            | 34.22                       | 2.64                  |
|      |        | High   | 1975.48            | 34.41                       | 2.76                  |
|      | 16QAM  | Low    | 1934.26            | 33.95                       | 2.49                  |
|      |        | Middle | 1968.94            | 34.24                       | 2.66                  |
|      |        | High   | 1964.74            | 34.72                       | 2.96                  |
|      | 64QAM  | Low    | 1937.56            | 33.78                       | 2.39                  |
|      |        | Middle | 1962.64            | 33.91                       | 2.46                  |
|      |        | High   | 1973.86            | 34.13                       | 2.59                  |
|      | 256QAM | Low    | 1945.48            | 33.60                       | 2.29                  |
|      |        | Middle | 1970.26            | 34.06                       | 2.55                  |
|      |        | High   | 1975.72            | 34.30                       | 2.69                  |
| 1    | QPSK   | Low    | 1936.30            | 34.09                       | 2.56                  |
|      |        | Middle | 1960.78            | 34.19                       | 2.62                  |
|      |        | High   | 1982.14            | 34.49                       | 2.81                  |
|      | 16QAM  | Low    | 1938.10            | 34.08                       | 2.56                  |
|      |        | Middle | 1950.10            | 34.28                       | 2.68                  |
|      |        | High   | 1964.74            | 34.64                       | 2.91                  |
|      | 64QAM  | Low    | 1937.20            | 33.81                       | 2.41                  |
|      |        | Middle | 1968.04            | 34.05                       | 2.54                  |
|      |        | High   | 1986.10            | 34.18                       | 2.62                  |
|      | 256QAM | Low    | 1950.52            | 33.65                       | 2.31                  |
|      |        | Middle | 1953.10            | 34.21                       | 2.64                  |
|      |        | High   | 1977.28            | 34.24                       | 2.66                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1950.52         | 4.92  | 5.05  | 4.80  | 4.61   |
| 1953.10         | 5.27  | 5.34  | 5.00  | 5.18   |
| 1977.28         | 5.58  | 5.88  | 5.21  | 5.35   |

## (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1936.90            | 36.70                       | 4.68                  |
|      |        | Middle | 1956.84            | 37.14                       | 5.17                  |
|      |        | High   | 1981.34            | 36.98                       | 4.99                  |
|      | 16QAM  | Low    | 1933.58            | 36.88                       | 4.88                  |
|      |        | Middle | 1963.10            | 37.30                       | 5.38                  |
|      |        | High   | 1982.80            | 37.56                       | 5.70                  |
|      | 64QAM  | Low    | 1938.36            | 36.64                       | 4.61                  |
|      |        | Middle | 1961.72            | 37.07                       | 5.09                  |
|      |        | High   | 1986.44            | 37.11                       | 5.15                  |
|      | 256QAM | Low    | 1937.62            | 36.73                       | 4.71                  |
|      |        | Middle | 1958.00            | 37.11                       | 5.14                  |
|      |        | High   | 1988.66            | 37.21                       | 5.26                  |
| 1    | QPSK   | Low    | 1933.84            | 36.76                       | 4.75                  |
|      |        | Middle | 1962.02            | 37.57                       | 5.71                  |
|      |        | High   | 1983.12            | 37.82                       | 6.06                  |
|      | 16QAM  | Low    | 1937.96            | 37.26                       | 5.32                  |
|      |        | Middle | 1957.76            | 37.73                       | 5.93                  |
|      |        | High   | 1983.00            | 37.95                       | 6.24                  |
|      | 64QAM  | Low    | 1936.90            | 36.88                       | 4.88                  |
|      |        | Middle | 1961.36            | 37.48                       | 5.60                  |
|      |        | High   | 1980.96            | 37.57                       | 5.72                  |
|      | 256QAM | Low    | 1937.98            | 36.80                       | 4.79                  |
|      |        | Middle | 1961.12            | 37.79                       | 6.01                  |
|      |        | High   | 1987.34            | 37.80                       | 6.02                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 1936.48            | 36.82                       | 4.80                  |
|      |        | Middle | 1956.80            | 37.18                       | 5.22                  |
|      |        | High   | 1986.28            | 37.42                       | 5.53                  |
|      | 16QAM  | Low    | 1933.34            | 36.80                       | 4.79                  |
|      |        | Middle | 1958.48            | 37.60                       | 5.76                  |
|      |        | High   | 1988.42            | 37.50                       | 5.62                  |
|      | 64QAM  | Low    | 1939.00            | 36.79                       | 4.78                  |
|      |        | Middle | 1963.06            | 37.22                       | 5.27                  |
|      |        | High   | 1983.18            | 37.34                       | 5.42                  |
|      | 256QAM | Low    | 1933.98            | 36.60                       | 4.57                  |
|      |        | Middle | 1963.36            | 37.19                       | 5.23                  |
|      |        | High   | 1985.98            | 37.49                       | 5.61                  |
| 3    | QPSK   | Low    | 1933.54            | 36.76                       | 4.74                  |
|      |        | Middle | 1956.34            | 37.07                       | 5.09                  |
|      |        | High   | 1982.94            | 37.23                       | 5.28                  |
|      | 16QAM  | Low    | 1933.72            | 36.98                       | 4.99                  |
|      |        | Middle | 1961.84            | 37.18                       | 5.22                  |
|      |        | High   | 1981.90            | 37.27                       | 5.33                  |
|      | 64QAM  | Low    | 1933.28            | 36.77                       | 4.75                  |
|      |        | Middle | 1963.76            | 37.13                       | 5.16                  |
|      |        | High   | 1988.62            | 37.16                       | 5.20                  |
|      | 256QAM | Low    | 1937.82            | 36.73                       | 4.71                  |
|      |        | Middle | 1956.70            | 37.26                       | 5.32                  |
|      |        | High   | 1981.36            | 37.31                       | 5.38                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1937.82         | 18.98 | 19.98 | 19.03 | 18.78  |
| 1956.70         | 21.20 | 22.29 | 21.12 | 21.70  |
| 1981.36         | 21.85 | 22.89 | 21.49 | 22.27  |

## (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1950.15            | 32.66                       | 1.84                  |
|      |        | Middle | 1967.45            | 32.83                       | 1.92                  |
|      |        | High   | 1981.30            | 33.18                       | 2.08                  |
|      | 16QAM  | Low    | 1938.60            | 33.03                       | 2.01                  |
|      |        | Middle | 1966.85            | 33.48                       | 2.23                  |
|      |        | High   | 1973.85            | 33.46                       | 2.22                  |
|      | 64QAM  | Low    | 1946.05            | 32.75                       | 1.89                  |
|      |        | Middle | 1949.80            | 33.12                       | 2.05                  |
|      |        | High   | 1977.70            | 33.19                       | 2.08                  |
|      | 256QAM | Low    | 1943.05            | 32.49                       | 1.77                  |
|      |        | Middle | 1959.10            | 33.08                       | 2.03                  |
|      |        | High   | 1981.70            | 33.31                       | 2.14                  |
| 1    | QPSK   | Low    | 1947.80            | 33.18                       | 2.08                  |
|      |        | Middle | 1964.20            | 33.30                       | 2.14                  |
|      |        | High   | 1982.05            | 33.54                       | 2.26                  |
|      | 16QAM  | Low    | 1932.10            | 33.16                       | 2.07                  |
|      |        | Middle | 1967.25            | 33.43                       | 2.20                  |
|      |        | High   | 1985.15            | 33.70                       | 2.35                  |
|      | 64QAM  | Low    | 1932.15            | 32.91                       | 1.95                  |
|      |        | Middle | 1964.05            | 33.29                       | 2.13                  |
|      |        | High   | 1983.15            | 33.98                       | 2.50                  |
|      | 256QAM | Low    | 1933.70            | 33.09                       | 2.04                  |
|      |        | Middle | 1967.05            | 33.29                       | 2.13                  |
|      |        | High   | 1978.10            | 33.80                       | 2.40                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 1951.25            | 32.72                       | 1.87                  |
|      |        | Middle | 1964.95            | 33.32                       | 2.15                  |
|      |        | High   | 1979.40            | 33.40                       | 2.19                  |
|      | 16QAM  | Low    | 1949.15            | 33.28                       | 2.13                  |
|      |        | Middle | 1956.75            | 33.50                       | 2.24                  |
|      |        | High   | 1983.95            | 33.74                       | 2.36                  |
|      | 64QAM  | Low    | 1950.05            | 32.78                       | 1.90                  |
|      |        | Middle | 1966.55            | 33.23                       | 2.10                  |
|      |        | High   | 1975.55            | 33.21                       | 2.10                  |
|      | 256QAM | Low    | 1949.10            | 32.96                       | 1.98                  |
|      |        | Middle | 1955.65            | 33.13                       | 2.06                  |
|      |        | High   | 1982.45            | 33.29                       | 2.13                  |
| 3    | QPSK   | Low    | 1947.05            | 32.88                       | 1.94                  |
|      |        | Middle | 1959.45            | 33.01                       | 2.00                  |
|      |        | High   | 1975.85            | 33.28                       | 2.13                  |
|      | 16QAM  | Low    | 1939.25            | 32.78                       | 1.90                  |
|      |        | Middle | 1966.85            | 33.47                       | 2.22                  |
|      |        | High   | 1974.40            | 33.65                       | 2.32                  |
|      | 64QAM  | Low    | 1949.25            | 32.75                       | 1.88                  |
|      |        | Middle | 1960.40            | 33.00                       | 1.99                  |
|      |        | High   | 1967.35            | 33.34                       | 2.16                  |
|      | 256QAM | Low    | 1949.80            | 32.77                       | 1.89                  |
|      |        | Middle | 1965.10            | 33.17                       | 2.07                  |
|      |        | High   | 1985.20            | 33.29                       | 2.13                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1949.80         | 7.74  | 8.10  | 7.62  | 7.68   |
| 1965.10         | 8.20  | 8.90  | 8.29  | 8.30   |
| 1985.20         | 8.66  | 9.24  | 8.83  | 8.80   |

## (4 Port) B2 LTE 10 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1948.78            | 31.94                       | 1.56                  |
|      |        | Middle | 1971.52            | 32.08                       | 1.62                  |
|      |        | High   | 1982.92            | 32.54                       | 1.79                  |
|      | 16QAM  | Low    | 1937.98            | 32.24                       | 1.67                  |
|      |        | Middle | 1959.52            | 32.90                       | 1.95                  |
|      |        | High   | 1978.72            | 32.34                       | 1.72                  |
|      | 64QAM  | Low    | 1957.84            | 32.01                       | 1.59                  |
|      |        | Middle | 1947.40            | 32.22                       | 1.67                  |
|      |        | High   | 1973.44            | 32.45                       | 1.76                  |
|      | 256QAM | Low    | 1957.66            | 31.94                       | 1.56                  |
|      |        | Middle | 1949.08            | 32.32                       | 1.71                  |
|      |        | High   | 1986.82            | 32.34                       | 1.71                  |
| 1    | QPSK   | Low    | 1954.90            | 32.34                       | 1.71                  |
|      |        | Middle | 1964.32            | 32.62                       | 1.83                  |
|      |        | High   | 1986.64            | 32.76                       | 1.89                  |
|      | 16QAM  | Low    | 1934.92            | 32.69                       | 1.86                  |
|      |        | Middle | 1958.98            | 32.89                       | 1.94                  |
|      |        | High   | 1981.06            | 32.73                       | 1.87                  |
|      | 64QAM  | Low    | 1934.80            | 32.26                       | 1.68                  |
|      |        | Middle | 1969.00            | 32.80                       | 1.91                  |
|      |        | High   | 1981.42            | 32.82                       | 1.91                  |
|      | 256QAM | Low    | 1955.86            | 32.48                       | 1.77                  |
|      |        | Middle | 1968.46            | 32.49                       | 1.77                  |
|      |        | High   | 1976.20            | 32.83                       | 1.92                  |



| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm/MHz) | Calculated (W/MHz) |
|------|--------|--------|-----------------|--------------------------|--------------------|
| 2    | QPSK   | Low    | 1937.02         | 31.97                    | 1.57               |
|      |        | Middle | 1971.10         | 32.36                    | 1.72               |
|      |        | High   | 1975.96         | 32.69                    | 1.86               |
|      | 16QAM  | Low    | 1943.80         | 32.21                    | 1.66               |
|      |        | Middle | 1949.86         | 32.80                    | 1.91               |
|      |        | High   | 1978.90         | 32.39                    | 1.73               |
|      | 64QAM  | Low    | 1956.70         | 32.08                    | 1.61               |
|      |        | Middle | 1967.98         | 32.51                    | 1.78               |
|      |        | High   | 1986.34         | 32.37                    | 1.73               |
|      | 256QAM | Low    | 1951.54         | 32.08                    | 1.61               |
|      |        | Middle | 1972.48         | 32.42                    | 1.75               |
|      |        | High   | 1984.54         | 32.60                    | 1.82               |
| 3    | QPSK   | Low    | 1956.94         | 32.02                    | 1.59               |
|      |        | Middle | 1948.66         | 32.52                    | 1.79               |
|      |        | High   | 1965.52         | 32.80                    | 1.91               |
|      | 16QAM  | Low    | 1938.40         | 32.37                    | 1.73               |
|      |        | Middle | 1959.28         | 32.93                    | 1.96               |
|      |        | High   | 1986.40         | 32.77                    | 1.89               |
|      | 64QAM  | Low    | 1957.00         | 32.07                    | 1.61               |
|      |        | Middle | 1951.30         | 32.36                    | 1.72               |
|      |        | High   | 1972.96         | 32.64                    | 1.84               |
|      | 256QAM | Low    | 1938.28         | 32.02                    | 1.59               |
|      |        | Middle | 1969.48         | 32.63                    | 1.83               |
|      |        | High   | 1981.00         | 32.58                    | 1.81               |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1938.28         | 6.44  | 6.92  | 6.50  | 6.54   |
| 1969.48         | 6.95  | 7.76  | 7.08  | 7.06   |
| 1981.00         | 7.44  | 7.22  | 7.24  | 7.26   |

## (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2118.74            | 40.41                       | 10.99                 |
|      |        | Middle | 2141.76            | 40.91                       | 12.35                 |
|      |        | High   | 2171.80            | 41.26                       | 13.36                 |
|      | 16QAM  | Low    | 2113.56            | 40.78                       | 11.96                 |
|      |        | Middle | 2143.64            | 41.08                       | 12.83                 |
|      |        | High   | 2178.36            | 41.57                       | 14.34                 |
|      | 64QAM  | Low    | 2118.06            | 40.61                       | 11.49                 |
|      |        | Middle | 2148.70            | 40.73                       | 11.82                 |
|      |        | High   | 2178.70            | 40.97                       | 12.49                 |
|      | 256QAM | Low    | 2118.44            | 40.53                       | 11.29                 |
|      |        | Middle | 2146.52            | 40.92                       | 12.35                 |
|      |        | High   | 2171.88            | 41.25                       | 13.32                 |
| 1    | QPSK   | Low    | 2118.30            | 40.38                       | 10.91                 |
|      |        | Middle | 2143.20            | 40.72                       | 11.81                 |
|      |        | High   | 2177.48            | 41.13                       | 12.97                 |
|      | 16QAM  | Low    | 2113.38            | 40.80                       | 12.02                 |
|      |        | Middle | 2142.58            | 40.91                       | 12.33                 |
|      |        | High   | 2173.44            | 41.19                       | 13.14                 |
|      | 64QAM  | Low    | 2118.44            | 40.49                       | 11.18                 |
|      |        | Middle | 2146.86            | 40.79                       | 12.00                 |
|      |        | High   | 2172.38            | 40.88                       | 12.23                 |
|      | 256QAM | Low    | 2118.30            | 40.37                       | 10.88                 |
|      |        | Middle | 2141.72            | 40.67                       | 11.68                 |
|      |        | High   | 2177.26            | 40.93                       | 12.39                 |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2118.30         | 21.91 | 23.98 | 22.68 | 22.17  |
| 2141.72         | 24.16 | 25.16 | 23.82 | 24.03  |
| 2177.26         | 26.34 | 27.49 | 24.73 | 25.71  |

## (2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2131.60            | 36.37                       | 4.34                  |
|      |        | Middle | 2150.35            | 36.65                       | 4.62                  |
|      |        | High   | 2177.10            | 37.03                       | 5.04                  |
|      | 16QAM  | Low    | 2129.70            | 36.63                       | 4.60                  |
|      |        | Middle | 2141.75            | 37.19                       | 5.23                  |
|      |        | High   | 2178.30            | 37.21                       | 5.26                  |
|      | 64QAM  | Low    | 2130.15            | 36.45                       | 4.42                  |
|      |        | Middle | 2134.75            | 36.81                       | 4.80                  |
|      |        | High   | 2163.20            | 37.13                       | 5.16                  |
|      | 256QAM | Low    | 2130.25            | 36.52                       | 4.49                  |
|      |        | Middle | 2142.85            | 36.72                       | 4.70                  |
|      |        | High   | 2172.30            | 37.02                       | 5.04                  |
| 1    | QPSK   | Low    | 2120.15            | 36.41                       | 4.38                  |
|      |        | Middle | 2154.95            | 36.74                       | 4.72                  |
|      |        | High   | 2177.65            | 36.85                       | 4.85                  |
|      | 16QAM  | Low    | 2119.30            | 36.76                       | 4.74                  |
|      |        | Middle | 2135.60            | 36.97                       | 4.97                  |
|      |        | High   | 2159.40            | 37.23                       | 5.28                  |
|      | 64QAM  | Low    | 2132.25            | 36.24                       | 4.21                  |
|      |        | Middle | 2144.70            | 36.73                       | 4.71                  |
|      |        | High   | 2169.10            | 36.83                       | 4.82                  |
|      | 256QAM | Low    | 2113.30            | 36.41                       | 4.37                  |
|      |        | Middle | 2134.35            | 36.72                       | 4.70                  |
|      |        | High   | 2171.30            | 36.89                       | 4.88                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2113.30         | 8.72  | 9.34  | 8.63  | 8.87   |
| 2134.35         | 9.34  | 10.21 | 9.50  | 9.40   |
| 2171.30         | 9.89  | 10.55 | 9.99  | 9.92   |

## (2 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2115.12            | 34.04                       | 2.53                  |
|      |        | Middle | 2150.12            | 33.97                       | 2.49                  |
|      |        | High   | 2162.40            | 33.93                       | 2.47                  |
|      | 16QAM  | Low    | 2123.76            | 34.95                       | 3.13                  |
|      |        | Middle | 2148.60            | 34.58                       | 2.87                  |
|      |        | High   | 2148.24            | 34.28                       | 2.68                  |
|      | 64QAM  | Low    | 2122.80            | 34.18                       | 2.62                  |
|      |        | Middle | 2142.60            | 34.07                       | 2.55                  |
|      |        | High   | 2165.44            | 34.15                       | 2.60                  |
|      | 256QAM | Low    | 2122.08            | 34.20                       | 2.63                  |
|      |        | Middle | 2158.76            | 34.06                       | 2.55                  |
|      |        | High   | 2177.36            | 34.14                       | 2.59                  |
| 1    | QPSK   | Low    | 2122.32            | 34.22                       | 2.64                  |
|      |        | Middle | 2159.48            | 34.21                       | 2.64                  |
|      |        | High   | 2174.00            | 34.15                       | 2.60                  |
|      | 16QAM  | Low    | 2144.24            | 34.73                       | 2.97                  |
|      |        | Middle | 2159.48            | 34.42                       | 2.76                  |
|      |        | High   | 2164.24            | 34.62                       | 2.90                  |
|      | 64QAM  | Low    | 2112.08            | 34.12                       | 2.58                  |
|      |        | Middle | 2130.68            | 34.07                       | 2.56                  |
|      |        | High   | 2145.36            | 34.20                       | 2.63                  |
|      | 256QAM | Low    | 2117.04            | 34.05                       | 2.54                  |
|      |        | Middle | 2149.32            | 34.35                       | 2.72                  |
|      |        | High   | 2148.24            | 34.30                       | 2.69                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2117.04         | 5.18  | 6.10  | 5.20  | 5.18   |
| 2149.32         | 5.13  | 5.64  | 5.11  | 5.27   |
| 2148.24         | 5.07  | 5.58  | 5.23  | 5.29   |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2117.50            | 36.98                       | 4.99                  |
|      |        | Middle | 2145.00            | 36.85                       | 4.84                  |
|      |        | High   | 2172.50            | 36.82                       | 4.81                  |
|      | 16QAM  | Low    | 2117.50            | 37.33                       | 5.41                  |
|      |        | Middle | 2145.00            | 37.67                       | 5.85                  |
|      |        | High   | 2172.50            | 37.22                       | 5.28                  |
|      | 64QAM  | Low    | 2117.50            | 37.10                       | 5.13                  |
|      |        | Middle | 2145.00            | 37.25                       | 5.31                  |
|      |        | High   | 2172.50            | 36.86                       | 4.86                  |
|      | 256QAM | Low    | 2117.50            | 36.95                       | 4.95                  |
|      |        | Middle | 2145.00            | 37.01                       | 5.02                  |
|      |        | High   | 2172.50            | 37.10                       | 5.13                  |
| 1    | QPSK   | Low    | 2117.50            | 36.96                       | 4.97                  |
|      |        | Middle | 2145.00            | 37.17                       | 5.21                  |
|      |        | High   | 2172.50            | 37.05                       | 5.07                  |
|      | 16QAM  | Low    | 2117.50            | 37.61                       | 5.77                  |
|      |        | Middle | 2145.00            | 37.39                       | 5.48                  |
|      |        | High   | 2172.50            | 37.49                       | 5.61                  |
|      | 64QAM  | Low    | 2117.50            | 36.97                       | 4.98                  |
|      |        | Middle | 2145.00            | 37.04                       | 5.05                  |
|      |        | High   | 2172.50            | 37.13                       | 5.16                  |
|      | 256QAM | Low    | 2117.50            | 36.89                       | 4.89                  |
|      |        | Middle | 2145.00            | 37.11                       | 5.14                  |
|      |        | High   | 2172.50            | 36.95                       | 4.95                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 2117.50            | 36.91                       | 4.91                  |
|      |        | Middle | 2145.00            | 37.14                       | 5.17                  |
|      |        | High   | 2172.50            | 37.17                       | 5.21                  |
|      | 16QAM  | Low    | 2117.50            | 37.33                       | 5.41                  |
|      |        | Middle | 2145.00            | 37.55                       | 5.69                  |
|      |        | High   | 2172.50            | 37.54                       | 5.67                  |
|      | 64QAM  | Low    | 2117.50            | 37.00                       | 5.02                  |
|      |        | Middle | 2145.00            | 37.01                       | 5.03                  |
|      |        | High   | 2172.50            | 37.04                       | 5.05                  |
|      | 256QAM | Low    | 2117.50            | 37.06                       | 5.08                  |
|      |        | Middle | 2145.00            | 37.08                       | 5.11                  |
|      |        | High   | 2172.50            | 37.44                       | 5.54                  |
| 3    | QPSK   | Low    | 2117.50            | 36.65                       | 4.62                  |
|      |        | Middle | 2145.00            | 36.90                       | 4.89                  |
|      |        | High   | 2172.50            | 37.04                       | 5.06                  |
|      | 16QAM  | Low    | 2117.50            | 37.01                       | 5.02                  |
|      |        | Middle | 2145.00            | 37.53                       | 5.66                  |
|      |        | High   | 2172.50            | 37.47                       | 5.59                  |
|      | 64QAM  | Low    | 2117.50            | 36.79                       | 4.77                  |
|      |        | Middle | 2145.00            | 36.81                       | 4.80                  |
|      |        | High   | 2172.50            | 36.97                       | 4.98                  |
|      | 256QAM | Low    | 2117.50            | 36.81                       | 4.79                  |
|      |        | Middle | 2145.00            | 36.87                       | 4.86                  |
|      |        | High   | 2172.50            | 36.97                       | 4.98                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2117.50         | 19.49 | 21.61 | 19.89 | 19.72  |
| 2145.00         | 20.11 | 22.69 | 20.19 | 20.13  |
| 2172.50         | 20.14 | 22.15 | 20.05 | 20.61  |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier]**

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2122.50            | 34.67                       | 2.93                  |
|      |        | Middle | 2145.00            | 34.73                       | 2.97                  |
|      |        | High   | 2167.50            | 34.97                       | 3.14                  |
|      | 16QAM  | Low    | 2122.50            | 34.75                       | 2.99                  |
|      |        | Middle | 2145.00            | 35.32                       | 3.41                  |
|      |        | High   | 2167.50            | 35.17                       | 3.29                  |
|      | 64QAM  | Low    | 2122.50            | 34.75                       | 2.99                  |
|      |        | Middle | 2145.00            | 34.88                       | 3.07                  |
|      |        | High   | 2167.50            | 35.10                       | 3.24                  |
|      | 256QAM | Low    | 2122.50            | 34.53                       | 2.83                  |
|      |        | Middle | 2145.00            | 34.99                       | 3.15                  |
|      |        | High   | 2167.50            | 34.68                       | 2.94                  |
| 1    | QPSK   | Low    | 2122.50            | 34.81                       | 3.03                  |
|      |        | Middle | 2145.00            | 34.89                       | 3.09                  |
|      |        | High   | 2167.50            | 34.97                       | 3.14                  |
|      | 16QAM  | Low    | 2122.50            | 35.15                       | 3.28                  |
|      |        | Middle | 2145.00            | 35.37                       | 3.44                  |
|      |        | High   | 2167.50            | 35.34                       | 3.42                  |
|      | 64QAM  | Low    | 2122.50            | 34.66                       | 2.92                  |
|      |        | Middle | 2145.00            | 35.08                       | 3.22                  |
|      |        | High   | 2167.50            | 34.98                       | 3.15                  |
|      | 256QAM | Low    | 2122.50            | 34.87                       | 3.07                  |
|      |        | Middle | 2145.00            | 35.04                       | 3.19                  |
|      |        | High   | 2167.50            | 34.95                       | 3.13                  |



| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 2122.50            | 34.94                       | 3.12                  |
|      |        | Middle | 2145.00            | 35.31                       | 3.40                  |
|      |        | High   | 2167.50            | 35.01                       | 3.17                  |
|      | 16QAM  | Low    | 2122.50            | 35.22                       | 3.33                  |
|      |        | Middle | 2145.00            | 35.65                       | 3.67                  |
|      |        | High   | 2167.50            | 35.29                       | 3.38                  |
|      | 64QAM  | Low    | 2122.50            | 34.85                       | 3.05                  |
|      |        | Middle | 2145.00            | 35.13                       | 3.26                  |
|      |        | High   | 2167.50            | 35.28                       | 3.37                  |
|      | 256QAM | Low    | 2122.50            | 34.87                       | 3.07                  |
|      |        | Middle | 2145.00            | 35.06                       | 3.21                  |
|      |        | High   | 2167.50            | 35.07                       | 3.22                  |
| 3    | QPSK   | Low    | 2122.50            | 34.81                       | 3.03                  |
|      |        | Middle | 2145.00            | 35.32                       | 3.40                  |
|      |        | High   | 2167.50            | 34.98                       | 3.15                  |
|      | 16QAM  | Low    | 2122.50            | 35.08                       | 3.22                  |
|      |        | Middle | 2145.00            | 35.16                       | 3.28                  |
|      |        | High   | 2167.50            | 35.44                       | 3.50                  |
|      | 64QAM  | Low    | 2122.50            | 34.62                       | 2.89                  |
|      |        | Middle | 2145.00            | 34.88                       | 3.08                  |
|      |        | High   | 2167.50            | 35.02                       | 3.17                  |
|      | 256QAM | Low    | 2122.50            | 34.90                       | 3.09                  |
|      |        | Middle | 2145.00            | 35.38                       | 3.45                  |
|      |        | High   | 2167.50            | 35.01                       | 3.17                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2122.50         | 12.11 | 12.81 | 11.85 | 12.06  |
| 2145.00         | 12.86 | 13.80 | 12.63 | 13.00  |
| 2167.50         | 12.60 | 13.59 | 12.93 | 12.45  |

## (4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [2 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2130.00            | 33.10                       | 2.04                  |
|      |        | Middle | 2145.00            | 32.63                       | 1.83                  |
|      |        | High   | 2160.00            | 32.68                       | 1.86                  |
|      | 16QAM  | Low    | 2130.00            | 33.19                       | 2.08                  |
|      |        | Middle | 2145.00            | 33.08                       | 2.03                  |
|      |        | High   | 2160.00            | 33.03                       | 2.01                  |
|      | 64QAM  | Low    | 2130.00            | 32.92                       | 1.96                  |
|      |        | Middle | 2145.00            | 32.85                       | 1.93                  |
|      |        | High   | 2160.00            | 33.23                       | 2.11                  |
|      | 256QAM | Low    | 2130.00            | 32.91                       | 1.96                  |
|      |        | Middle | 2145.00            | 32.85                       | 1.93                  |
|      |        | High   | 2160.00            | 32.93                       | 1.96                  |
| 1    | QPSK   | Low    | 2130.00            | 32.81                       | 1.91                  |
|      |        | Middle | 2145.00            | 32.90                       | 1.95                  |
|      |        | High   | 2160.00            | 32.97                       | 1.98                  |
|      | 16QAM  | Low    | 2130.00            | 33.57                       | 2.27                  |
|      |        | Middle | 2145.00            | 33.06                       | 2.02                  |
|      |        | High   | 2160.00            | 33.20                       | 2.09                  |
|      | 64QAM  | Low    | 2130.00            | 32.73                       | 1.87                  |
|      |        | Middle | 2145.00            | 32.76                       | 1.89                  |
|      |        | High   | 2160.00            | 32.95                       | 1.97                  |
|      | 256QAM | Low    | 2130.00            | 32.75                       | 1.89                  |
|      |        | Middle | 2145.00            | 32.73                       | 1.88                  |
|      |        | High   | 2160.00            | 32.83                       | 1.92                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 2130.00            | 33.00                       | 2.00                  |
|      |        | Middle | 2145.00            | 32.96                       | 1.98                  |
|      |        | High   | 2160.00            | 32.92                       | 1.96                  |
|      | 16QAM  | Low    | 2130.00            | 33.49                       | 2.24                  |
|      |        | Middle | 2145.00            | 33.15                       | 2.07                  |
|      |        | High   | 2160.00            | 33.29                       | 2.14                  |
|      | 64QAM  | Low    | 2130.00            | 32.92                       | 1.96                  |
|      |        | Middle | 2145.00            | 32.98                       | 1.98                  |
|      |        | High   | 2160.00            | 32.92                       | 1.96                  |
|      | 256QAM | Low    | 2130.00            | 32.84                       | 1.92                  |
|      |        | Middle | 2145.00            | 32.99                       | 1.99                  |
|      |        | High   | 2160.00            | 33.05                       | 2.02                  |
| 3    | QPSK   | Low    | 2130.00            | 32.86                       | 1.93                  |
|      |        | Middle | 2145.00            | 33.26                       | 2.12                  |
|      |        | High   | 2160.00            | 32.87                       | 1.94                  |
|      | 16QAM  | Low    | 2130.00            | 33.20                       | 2.09                  |
|      |        | Middle | 2145.00            | 33.17                       | 2.07                  |
|      |        | High   | 2160.00            | 33.18                       | 2.08                  |
|      | 64QAM  | Low    | 2130.00            | 32.77                       | 1.89                  |
|      |        | Middle | 2145.00            | 32.75                       | 1.88                  |
|      |        | High   | 2160.00            | 32.93                       | 1.96                  |
|      | 256QAM | Low    | 2130.00            | 32.72                       | 1.87                  |
|      |        | Middle | 2145.00            | 32.84                       | 1.92                  |
|      |        | High   | 2160.00            | 32.88                       | 1.94                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2130.00         | 7.88  | 8.68  | 7.68  | 7.64   |
| 2145.00         | 7.88  | 8.20  | 7.68  | 7.72   |
| 2160.00         | 7.73  | 8.32  | 8.00  | 7.84   |

## (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1941.70            | 36.56                       | 4.53                  |
|      |        | Middle | 1964.50            | 37.08                       | 5.11                  |
|      |        | High   | 1988.32            | 37.07                       | 5.10                  |
|      | 16QAM  | Low    | 1937.59            | 36.90                       | 4.90                  |
|      |        | Middle | 1956.37            | 37.19                       | 5.23                  |
|      |        | High   | 1977.85            | 37.41                       | 5.51                  |
|      | 64QAM  | Low    | 1937.17            | 36.65                       | 4.63                  |
|      |        | Middle | 1955.50            | 37.09                       | 5.12                  |
|      |        | High   | 1982.83            | 37.10                       | 5.13                  |
|      | 256QAM | Low    | 1936.48            | 36.66                       | 4.63                  |
|      |        | Middle | 1963.87            | 37.03                       | 5.05                  |
|      |        | High   | 1987.51            | 37.10                       | 5.13                  |
| 1    | QPSK   | Low    | 1942.96            | 36.58                       | 4.55                  |
|      |        | Middle | 1964.11            | 36.99                       | 5.00                  |
|      |        | High   | 1983.10            | 37.08                       | 5.11                  |
|      | 16QAM  | Low    | 1938.49            | 37.04                       | 5.06                  |
|      |        | Middle | 1966.09            | 37.31                       | 5.38                  |
|      |        | High   | 1981.81            | 37.38                       | 5.46                  |
|      | 64QAM  | Low    | 1943.35            | 36.59                       | 4.56                  |
|      |        | Middle | 1955.11            | 37.23                       | 5.28                  |
|      |        | High   | 1986.04            | 37.19                       | 5.24                  |
|      | 256QAM | Low    | 1943.44            | 36.78                       | 4.76                  |
|      |        | Middle | 1955.62            | 37.05                       | 5.07                  |
|      |        | High   | 1981.69            | 37.02                       | 5.03                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1943.44         | 9.09  | 9.96  | 9.19  | 9.40   |
| 1955.62         | 10.11 | 10.62 | 10.41 | 10.12  |
| 1981.69         | 10.21 | 10.98 | 10.37 | 10.16  |

## (2 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [3 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1951.78            | 34.12                       | 2.58                  |
|      |        | Middle | 1967.20            | 33.93                       | 2.47                  |
|      |        | High   | 1980.10            | 34.14                       | 2.60                  |
|      | 16QAM  | Low    | 1938.16            | 34.33                       | 2.71                  |
|      |        | Middle | 1958.92            | 34.39                       | 2.75                  |
|      |        | High   | 1974.46            | 34.47                       | 2.80                  |
|      | 64QAM  | Low    | 1938.88            | 34.02                       | 2.52                  |
|      |        | Middle | 1947.94            | 33.91                       | 2.46                  |
|      |        | High   | 1973.62            | 34.03                       | 2.53                  |
|      | 256QAM | Low    | 1954.54            | 33.93                       | 2.47                  |
|      |        | Middle | 1961.56            | 33.98                       | 2.50                  |
|      |        | High   | 1983.70            | 34.23                       | 2.65                  |
| 1    | QPSK   | Low    | 1937.56            | 33.97                       | 2.50                  |
|      |        | Middle | 1968.76            | 34.50                       | 2.82                  |
|      |        | High   | 1984.24            | 34.16                       | 2.60                  |
|      | 16QAM  | Low    | 1938.40            | 34.05                       | 2.54                  |
|      |        | Middle | 1972.24            | 34.14                       | 2.59                  |
|      |        | High   | 1973.62            | 34.54                       | 2.84                  |
|      | 64QAM  | Low    | 1956.04            | 33.86                       | 2.43                  |
|      |        | Middle | 1966.72            | 34.14                       | 2.59                  |
|      |        | High   | 1974.22            | 34.15                       | 2.60                  |
|      | 256QAM | Low    | 1958.38            | 34.09                       | 2.57                  |
|      |        | Middle | 1965.94            | 34.09                       | 2.57                  |
|      |        | High   | 1975.96            | 34.19                       | 2.63                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1958.38         | 5.08  | 5.26  | 4.96  | 5.04   |
| 1965.94         | 5.29  | 5.34  | 5.06  | 5.07   |
| 1975.96         | 5.20  | 5.65  | 5.13  | 5.27   |

## (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier [3 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1933.93            | 34.90                       | 3.09                  |
|      |        | Middle | 1961.62            | 35.28                       | 3.37                  |
|      |        | High   | 1981.90            | 35.02                       | 3.17                  |
|      | 16QAM  | Low    | 1938.34            | 35.15                       | 3.27                  |
|      |        | Middle | 1955.59            | 35.40                       | 3.47                  |
|      |        | High   | 1976.86            | 35.69                       | 3.71                  |
|      | 64QAM  | Low    | 1941.64            | 35.03                       | 3.18                  |
|      |        | Middle | 1960.09            | 35.26                       | 3.36                  |
|      |        | High   | 1983.46            | 35.07                       | 3.22                  |
|      | 256QAM | Low    | 1936.45            | 34.99                       | 3.16                  |
|      |        | Middle | 1959.19            | 35.52                       | 3.56                  |
|      |        | High   | 1987.24            | 35.27                       | 3.37                  |
| 1    | QPSK   | Low    | 1938.01            | 35.00                       | 3.16                  |
|      |        | Middle | 1961.20            | 35.74                       | 3.75                  |
|      |        | High   | 1978.48            | 35.65                       | 3.67                  |
|      | 16QAM  | Low    | 1943.53            | 35.32                       | 3.40                  |
|      |        | Middle | 1966.06            | 35.98                       | 3.97                  |
|      |        | High   | 1982.83            | 36.09                       | 4.06                  |
|      | 64QAM  | Low    | 1943.95            | 35.22                       | 3.33                  |
|      |        | Middle | 1953.61            | 35.59                       | 3.62                  |
|      |        | High   | 1986.10            | 35.82                       | 3.82                  |
|      | 256QAM | Low    | 1943.08            | 35.10                       | 3.24                  |
|      |        | Middle | 1964.80            | 35.67                       | 3.69                  |
|      |        | High   | 1983.55            | 35.62                       | 3.65                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 1938.82            | 35.22                       | 3.33                  |
|      |        | Middle | 1959.76            | 35.32                       | 3.40                  |
|      |        | High   | 1978.78            | 35.28                       | 3.37                  |
|      | 16QAM  | Low    | 1933.45            | 35.24                       | 3.35                  |
|      |        | Middle | 1960.87            | 35.58                       | 3.62                  |
|      |        | High   | 1978.27            | 35.88                       | 3.87                  |
|      | 64QAM  | Low    | 1936.54            | 35.14                       | 3.27                  |
|      |        | Middle | 1965.88            | 35.53                       | 3.57                  |
|      |        | High   | 1981.24            | 35.38                       | 3.45                  |
|      | 256QAM | Low    | 1933.66            | 35.04                       | 3.19                  |
|      |        | Middle | 1965.94            | 35.40                       | 3.47                  |
|      |        | High   | 1987.75            | 35.42                       | 3.49                  |
| 3    | QPSK   | Low    | 1943.08            | 35.46                       | 3.51                  |
|      |        | Middle | 1955.95            | 35.50                       | 3.55                  |
|      |        | High   | 1987.84            | 35.50                       | 3.54                  |
|      | 16QAM  | Low    | 1938.07            | 35.71                       | 3.72                  |
|      |        | Middle | 1965.91            | 35.45                       | 3.50                  |
|      |        | High   | 1978.06            | 35.91                       | 3.90                  |
|      | 64QAM  | Low    | 1943.20            | 35.63                       | 3.66                  |
|      |        | Middle | 1965.16            | 35.50                       | 3.55                  |
|      |        | High   | 1983.40            | 35.36                       | 3.43                  |
|      | 256QAM | Low    | 1936.03            | 35.56                       | 3.60                  |
|      |        | Middle | 1965.01            | 35.35                       | 3.43                  |
|      |        | High   | 1982.32            | 35.77                       | 3.78                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1936.03         | 13.09 | 13.74 | 13.44 | 13.18  |
| 1965.01         | 14.08 | 14.56 | 14.10 | 14.14  |
| 1982.32         | 13.76 | 15.54 | 13.92 | 14.28  |



## (4 Port) B2 LTE 5 MHz 1 Carrier + B2 LTE 5 MHz 1 Carrier + B2 LTE 20 MHz 1 Carrier [3 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 1936.48            | 31.87                       | 1.54                  |
|      |        | Middle | 1948.72            | 32.23                       | 1.67                  |
|      |        | High   | 1972.96            | 32.59                       | 1.82                  |
|      | 16QAM  | Low    | 1938.82            | 32.38                       | 1.73                  |
|      |        | Middle | 1947.58            | 32.35                       | 1.72                  |
|      |        | High   | 1983.34            | 32.78                       | 1.90                  |
|      | 64QAM  | Low    | 1937.80            | 32.02                       | 1.59                  |
|      |        | Middle | 1947.64            | 32.07                       | 1.61                  |
|      |        | High   | 1983.88            | 32.67                       | 1.85                  |
|      | 256QAM | Low    | 1938.16            | 32.14                       | 1.64                  |
|      |        | Middle | 1948.72            | 32.12                       | 1.63                  |
|      |        | High   | 1974.88            | 32.701                      | 1.86                  |
| 1    | QPSK   | Low    | 1938.22            | 32.114                      | 1.63                  |
|      |        | Middle | 1962.64            | 32.593                      | 1.82                  |
|      |        | High   | 1982.20            | 32.904                      | 1.95                  |
|      | 16QAM  | Low    | 1943.56            | 32.510                      | 1.78                  |
|      |        | Middle | 1953.40            | 32.731                      | 1.88                  |
|      |        | High   | 1974.46            | 33.031                      | 2.01                  |
|      | 64QAM  | Low    | 1952.38            | 32.233                      | 1.67                  |
|      |        | Middle | 1958.50            | 32.612                      | 1.82                  |
|      |        | High   | 1976.92            | 32.636                      | 1.83                  |
|      | 256QAM | Low    | 1953.88            | 32.102                      | 1.62                  |
|      |        | Middle | 1966.06            | 32.639                      | 1.84                  |
|      |        | High   | 1983.82            | 33.177                      | 2.08                  |

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm/MHz) | Calculated (W/MHz) |
|------|--------|--------|-----------------|--------------------------|--------------------|
| 2    | QPSK   | Low    | 1954.24         | 31.78                    | 1.51               |
|      |        | Middle | 1967.92         | 32.53                    | 1.79               |
|      |        | High   | 1976.68         | 32.55                    | 1.80               |
|      | 16QAM  | Low    | 1944.34         | 32.43                    | 1.75               |
|      |        | Middle | 1948.72         | 32.48                    | 1.77               |
|      |        | High   | 1973.44         | 32.78                    | 1.90               |
|      | 64QAM  | Low    | 1938.58         | 31.94                    | 1.56               |
|      |        | Middle | 1963.90         | 32.58                    | 1.81               |
|      |        | High   | 1975.96         | 32.58                    | 1.81               |
|      | 256QAM | Low    | 1953.82         | 32.03                    | 1.60               |
|      |        | Middle | 1953.28         | 32.42                    | 1.75               |
|      |        | High   | 1984.48         | 32.84                    | 1.92               |
| 3    | QPSK   | Low    | 1951.72         | 31.82                    | 1.52               |
|      |        | Middle | 1965.82         | 32.47                    | 1.76               |
|      |        | High   | 1977.82         | 32.70                    | 1.86               |
|      | 16QAM  | Low    | 1937.98         | 32.04                    | 1.60               |
|      |        | Middle | 1953.64         | 32.79                    | 1.90               |
|      |        | High   | 1984.36         | 32.83                    | 1.92               |
|      | 64QAM  | Low    | 1954.90         | 31.85                    | 1.53               |
|      |        | Middle | 1970.26         | 32.40                    | 1.74               |
|      |        | High   | 1976.86         | 32.65                    | 1.84               |
|      | 256QAM | Low    | 1953.58         | 32.28                    | 1.69               |
|      |        | Middle | 1965.76         | 32.32                    | 1.71               |
|      |        | High   | 1981.24         | 32.61                    | 1.82               |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 1953.58         | 6.19  | 6.86  | 6.36  | 6.55   |
| 1965.76         | 7.05  | 7.26  | 6.98  | 6.92   |
| 1981.24         | 7.43  | 7.72  | 7.34  | 7.69   |

## (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2112.22            | 38.59                       | 7.23                  |
|      |        | Middle | 2150.58            | 38.99                       | 7.92                  |
|      |        | High   | 2172.65            | 39.34                       | 8.59                  |
|      | 16QAM  | Low    | 2123.80            | 39.14                       | 8.20                  |
|      |        | Middle | 2146.44            | 39.26                       | 8.44                  |
|      |        | High   | 2168.54            | 39.50                       | 8.90                  |
|      | 64QAM  | Low    | 2118.34            | 38.60                       | 7.25                  |
|      |        | Middle | 2146.11            | 39.24                       | 8.40                  |
|      |        | High   | 2172.77            | 39.15                       | 8.23                  |
|      | 256QAM | Low    | 2118.79            | 38.70                       | 7.42                  |
|      |        | Middle | 2151.00            | 39.27                       | 8.46                  |
|      |        | High   | 2167.13            | 39.40                       | 8.70                  |
| 1    | QPSK   | Low    | 2113.39            | 38.53                       | 7.12                  |
|      |        | Middle | 2139.30            | 38.96                       | 7.88                  |
|      |        | High   | 2178.68            | 39.24                       | 8.40                  |
|      | 16QAM  | Low    | 2123.08            | 38.87                       | 7.71                  |
|      |        | Middle | 2140.92            | 39.17                       | 8.27                  |
|      |        | High   | 2173.76            | 39.26                       | 8.43                  |
|      | 64QAM  | Low    | 2118.67            | 38.61                       | 7.26                  |
|      |        | Middle | 2139.69            | 38.88                       | 7.73                  |
|      |        | High   | 2173.64            | 39.18                       | 8.28                  |
|      | 256QAM | Low    | 2118.22            | 38.76                       | 7.52                  |
|      |        | Middle | 2149.38            | 39.04                       | 8.01                  |
|      |        | High   | 2168.72            | 39.11                       | 8.14                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2118.22         | 14.36 | 15.92 | 14.51 | 14.94  |
| 2149.38         | 15.80 | 16.71 | 16.13 | 16.47  |
| 2168.72         | 16.99 | 17.33 | 16.52 | 16.84  |

## (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [3 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2122.00            | 35.34                       | 3.42                  |
|      |        | Middle | 2146.98            | 35.25                       | 3.35                  |
|      |        | High   | 2164.34            | 35.08                       | 3.22                  |
|      | 16QAM  | Low    | 2118.76            | 35.31                       | 3.39                  |
|      |        | Middle | 2133.00            | 35.44                       | 3.50                  |
|      |        | High   | 2154.38            | 35.87                       | 3.87                  |
|      | 64QAM  | Low    | 2128.30            | 34.97                       | 3.14                  |
|      |        | Middle | 2157.00            | 35.24                       | 3.34                  |
|      |        | High   | 2155.58            | 35.14                       | 3.26                  |
|      | 256QAM | Low    | 2134.78            | 35.13                       | 3.26                  |
|      |        | Middle | 2156.94            | 35.30                       | 3.39                  |
|      |        | High   | 2177.12            | 35.37                       | 3.44                  |
| 1    | QPSK   | Low    | 2136.88            | 35.11                       | 3.24                  |
|      |        | Middle | 2155.92            | 35.39                       | 3.46                  |
|      |        | High   | 2161.22            | 35.72                       | 3.73                  |
|      | 16QAM  | Low    | 2133.64            | 35.33                       | 3.41                  |
|      |        | Middle | 2144.40            | 35.86                       | 3.86                  |
|      |        | High   | 2158.40            | 36.03                       | 4.01                  |
|      | 64QAM  | Low    | 2128.36            | 35.14                       | 3.26                  |
|      |        | Middle | 2154.54            | 35.42                       | 3.49                  |
|      |        | High   | 2178.32            | 35.55                       | 3.59                  |
|      | 256QAM | Low    | 2126.20            | 35.25                       | 3.35                  |
|      |        | Middle | 2133.30            | 35.27                       | 3.37                  |
|      |        | High   | 2162.00            | 35.30                       | 3.39                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2126.20         | 6.66  | 6.81  | 6.41  | 6.61   |
| 2133.30         | 6.80  | 7.36  | 6.83  | 6.75   |
| 2162.00         | 6.95  | 7.88  | 6.85  | 6.83   |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 15 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [3 Carrier]**

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2123.76            | 34.01                       | 2.52                  |
|      |        | Middle | 2147.64            | 34.12                       | 2.58                  |
|      |        | High   | 2151.92            | 34.00                       | 2.51                  |
|      | 16QAM  | Low    | 2122.16            | 34.69                       | 2.95                  |
|      |        | Middle | 2128.68            | 34.27                       | 2.68                  |
|      |        | High   | 2162.24            | 34.51                       | 2.82                  |
|      | 64QAM  | Low    | 2127.20            | 34.00                       | 2.51                  |
|      |        | Middle | 2127.88            | 33.94                       | 2.48                  |
|      |        | High   | 2157.36            | 34.07                       | 2.56                  |
|      | 256QAM | Low    | 2112.64            | 34.01                       | 2.52                  |
|      |        | Middle | 2160.36            | 33.95                       | 2.48                  |
|      |        | High   | 2154.56            | 34.08                       | 2.56                  |
| 1    | QPSK   | Low    | 2120.08            | 34.10                       | 2.57                  |
|      |        | Middle | 2157.72            | 34.28                       | 2.68                  |
|      |        | High   | 2147.76            | 34.06                       | 2.55                  |
|      | 16QAM  | Low    | 2122.56            | 34.49                       | 2.81                  |
|      |        | Middle | 2137.32            | 34.71                       | 2.96                  |
|      |        | High   | 2167.68            | 34.76                       | 2.99                  |
|      | 64QAM  | Low    | 2112.56            | 33.95                       | 2.48                  |
|      |        | Middle | 2148.52            | 34.20                       | 2.63                  |
|      |        | High   | 2161.92            | 34.11                       | 2.58                  |
|      | 256QAM | Low    | 2137.68            | 34.01                       | 2.52                  |
|      |        | Middle | 2151.24            | 34.32                       | 2.70                  |
|      |        | High   | 2178.00            | 34.00                       | 2.51                  |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2137.68         | 5.09  | 5.76  | 5.00  | 5.04   |
| 2151.24         | 5.26  | 5.64  | 5.11  | 5.19   |
| 2178.00         | 5.06  | 5.82  | 5.13  | 5.08   |

## (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2117.50            | 36.79                       | 4.77                  |
|      |        | Middle | 2145.00            | 36.97                       | 4.97                  |
|      |        | High   | 2172.50            | 37.09                       | 5.12                  |
|      | 16QAM  | Low    | 2117.50            | 37.28                       | 5.34                  |
|      |        | Middle | 2145.00            | 37.48                       | 5.59                  |
|      |        | High   | 2172.50            | 37.49                       | 5.61                  |
|      | 64QAM  | Low    | 2117.50            | 36.92                       | 4.92                  |
|      |        | Middle | 2145.00            | 37.29                       | 5.36                  |
|      |        | High   | 2172.50            | 37.02                       | 5.04                  |
|      | 256QAM | Low    | 2117.50            | 36.94                       | 4.95                  |
|      |        | Middle | 2145.00            | 37.08                       | 5.10                  |
|      |        | High   | 2172.50            | 37.25                       | 5.31                  |
| 1    | QPSK   | Low    | 2117.50            | 37.04                       | 5.06                  |
|      |        | Middle | 2145.00            | 37.19                       | 5.24                  |
|      |        | High   | 2172.50            | 37.33                       | 5.41                  |
|      | 16QAM  | Low    | 2117.50            | 37.48                       | 5.60                  |
|      |        | Middle | 2145.00            | 37.53                       | 5.66                  |
|      |        | High   | 2172.50            | 37.55                       | 5.68                  |
|      | 64QAM  | Low    | 2117.50            | 37.25                       | 5.31                  |
|      |        | Middle | 2145.00            | 37.14                       | 5.17                  |
|      |        | High   | 2172.50            | 37.03                       | 5.05                  |
|      | 256QAM | Low    | 2117.50            | 36.95                       | 4.95                  |
|      |        | Middle | 2145.00            | 37.13                       | 5.17                  |
|      |        | High   | 2172.50            | 37.23                       | 5.29                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 2117.50            | 37.27                       | 5.34                  |
|      |        | Middle | 2145.00            | 37.43                       | 5.54                  |
|      |        | High   | 2172.50            | 37.42                       | 5.52                  |
|      | 16QAM  | Low    | 2117.50            | 37.74                       | 5.94                  |
|      |        | Middle | 2145.00            | 37.67                       | 5.84                  |
|      |        | High   | 2172.50            | 37.53                       | 5.66                  |
|      | 64QAM  | Low    | 2117.50            | 37.25                       | 5.31                  |
|      |        | Middle | 2145.00            | 37.53                       | 5.66                  |
|      |        | High   | 2172.50            | 37.22                       | 5.28                  |
|      | 256QAM | Low    | 2117.50            | 37.22                       | 5.27                  |
|      |        | Middle | 2145.00            | 37.59                       | 5.74                  |
|      |        | High   | 2172.50            | 37.08                       | 5.11                  |
| 3    | QPSK   | Low    | 2117.50            | 37.13                       | 5.17                  |
|      |        | Middle | 2145.00            | 37.16                       | 5.19                  |
|      |        | High   | 2172.50            | 37.03                       | 5.05                  |
|      | 16QAM  | Low    | 2117.50            | 37.75                       | 5.96                  |
|      |        | Middle | 2145.00            | 37.55                       | 5.69                  |
|      |        | High   | 2172.50            | 37.25                       | 5.30                  |
|      | 64QAM  | Low    | 2117.50            | 37.20                       | 5.25                  |
|      |        | Middle | 2145.00            | 37.08                       | 5.11                  |
|      |        | High   | 2172.50            | 37.26                       | 5.32                  |
|      | 256QAM | Low    | 2117.50            | 37.16                       | 5.20                  |
|      |        | Middle | 2145.00            | 37.11                       | 5.14                  |
|      |        | High   | 2172.50            | 37.04                       | 5.05                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2117.50         | 20.34 | 22.85 | 20.79 | 20.37  |
| 2145.00         | 20.94 | 22.79 | 21.30 | 21.15  |
| 2172.50         | 21.09 | 22.25 | 20.69 | 20.76  |



## (4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [3 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2125.00            | 34.18                       | 2.62                  |
|      |        | Middle | 2145.00            | 34.18                       | 2.62                  |
|      |        | High   | 2165.00            | 34.16                       | 2.60                  |
|      | 16QAM  | Low    | 2125.00            | 34.14                       | 2.59                  |
|      |        | Middle | 2145.00            | 34.50                       | 2.82                  |
|      |        | High   | 2165.00            | 34.18                       | 2.62                  |
|      | 64QAM  | Low    | 2125.00            | 33.85                       | 2.43                  |
|      |        | Middle | 2145.00            | 34.16                       | 2.61                  |
|      |        | High   | 2165.00            | 34.15                       | 2.60                  |
|      | 256QAM | Low    | 2125.00            | 33.89                       | 2.45                  |
|      |        | Middle | 2145.00            | 34.05                       | 2.54                  |
|      |        | High   | 2165.00            | 34.17                       | 2.61                  |
| 1    | QPSK   | Low    | 2125.00            | 33.95                       | 2.48                  |
|      |        | Middle | 2145.00            | 34.16                       | 2.61                  |
|      |        | High   | 2165.00            | 34.28                       | 2.68                  |
|      | 16QAM  | Low    | 2125.00            | 34.34                       | 2.72                  |
|      |        | Middle | 2145.00            | 34.29                       | 2.69                  |
|      |        | High   | 2165.00            | 34.66                       | 2.92                  |
|      | 64QAM  | Low    | 2125.00            | 34.13                       | 2.59                  |
|      |        | Middle | 2145.00            | 34.33                       | 2.71                  |
|      |        | High   | 2165.00            | 34.42                       | 2.76                  |
|      | 256QAM | Low    | 2125.00            | 33.96                       | 2.49                  |
|      |        | Middle | 2145.00            | 34.14                       | 2.59                  |
|      |        | High   | 2165.00            | 34.20                       | 2.63                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 2125.00            | 34.33                       | 2.71                  |
|      |        | Middle | 2145.00            | 34.57                       | 2.86                  |
|      |        | High   | 2165.00            | 34.36                       | 2.73                  |
|      | 16QAM  | Low    | 2125.00            | 34.65                       | 2.92                  |
|      |        | Middle | 2145.00            | 34.67                       | 2.93                  |
|      |        | High   | 2165.00            | 34.68                       | 2.93                  |
|      | 64QAM  | Low    | 2125.00            | 34.14                       | 2.59                  |
|      |        | Middle | 2145.00            | 34.45                       | 2.78                  |
|      |        | High   | 2165.00            | 34.32                       | 2.70                  |
|      | 256QAM | Low    | 2125.00            | 34.22                       | 2.64                  |
|      |        | Middle | 2145.00            | 34.43                       | 2.77                  |
|      |        | High   | 2165.00            | 34.47                       | 2.80                  |
| 3    | QPSK   | Low    | 2125.00            | 33.97                       | 2.49                  |
|      |        | Middle | 2145.00            | 34.34                       | 2.72                  |
|      |        | High   | 2165.00            | 34.20                       | 2.63                  |
|      | 16QAM  | Low    | 2125.00            | 34.44                       | 2.78                  |
|      |        | Middle | 2145.00            | 34.70                       | 2.95                  |
|      |        | High   | 2165.00            | 35.01                       | 3.17                  |
|      | 64QAM  | Low    | 2125.00            | 33.90                       | 2.45                  |
|      |        | Middle | 2145.00            | 34.31                       | 2.70                  |
|      |        | High   | 2165.00            | 34.21                       | 2.64                  |
|      | 256QAM | Low    | 2125.00            | 34.02                       | 2.52                  |
|      |        | Middle | 2145.00            | 34.42                       | 2.76                  |
|      |        | High   | 2165.00            | 34.29                       | 2.68                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2125.00         | 10.31 | 11.01 | 10.06 | 10.10  |
| 2145.00         | 10.81 | 11.39 | 10.80 | 10.67  |
| 2165.00         | 10.64 | 11.65 | 10.70 | 10.73  |

## (4 Port) B66 LTE 20 MHz 1 Carrier + B66 LTE 15 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [3 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2130.00            | 32.92                       | 1.96                  |
|      |        | Middle | 2145.00            | 32.75                       | 1.88                  |
|      |        | High   | 2160.00            | 32.71                       | 1.87                  |
|      | 16QAM  | Low    | 2130.00            | 33.34                       | 2.16                  |
|      |        | Middle | 2145.00            | 33.46                       | 2.22                  |
|      |        | High   | 2160.00            | 33.85                       | 2.42                  |
|      | 64QAM  | Low    | 2130.00            | 32.99                       | 1.99                  |
|      |        | Middle | 2145.00            | 32.86                       | 1.93                  |
|      |        | High   | 2160.00            | 33.06                       | 2.02                  |
|      | 256QAM | Low    | 2130.00            | 32.94                       | 1.97                  |
|      |        | Middle | 2145.00            | 32.96                       | 1.98                  |
|      |        | High   | 2160.00            | 32.85                       | 1.93                  |
| 1    | QPSK   | Low    | 2130.00            | 32.85                       | 1.93                  |
|      |        | Middle | 2145.00            | 32.90                       | 1.95                  |
|      |        | High   | 2160.00            | 32.87                       | 1.94                  |
|      | 16QAM  | Low    | 2130.00            | 33.54                       | 2.26                  |
|      |        | Middle | 2145.00            | 33.84                       | 2.42                  |
|      |        | High   | 2160.00            | 33.62                       | 2.30                  |
|      | 64QAM  | Low    | 2130.00            | 32.90                       | 1.95                  |
|      |        | Middle | 2145.00            | 33.11                       | 2.05                  |
|      |        | High   | 2160.00            | 32.96                       | 1.98                  |
|      | 256QAM | Low    | 2130.00            | 32.68                       | 1.85                  |
|      |        | Middle | 2145.00            | 32.98                       | 1.98                  |
|      |        | High   | 2160.00            | 32.80                       | 1.91                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 2130.00            | 33.09                       | 2.04                  |
|      |        | Middle | 2145.00            | 33.08                       | 2.03                  |
|      |        | High   | 2160.00            | 33.42                       | 2.20                  |
|      | 16QAM  | Low    | 2130.00            | 33.78                       | 2.39                  |
|      |        | Middle | 2145.00            | 33.54                       | 2.26                  |
|      |        | High   | 2160.00            | 33.58                       | 2.28                  |
|      | 64QAM  | Low    | 2130.00            | 33.02                       | 2.00                  |
|      |        | Middle | 2145.00            | 33.03                       | 2.01                  |
|      |        | High   | 2160.00            | 33.08                       | 2.03                  |
|      | 256QAM | Low    | 2130.00            | 33.00                       | 1.99                  |
|      |        | Middle | 2145.00            | 33.12                       | 2.05                  |
|      |        | High   | 2160.00            | 33.08                       | 2.03                  |
| 3    | QPSK   | Low    | 2130.00            | 32.81                       | 1.91                  |
|      |        | Middle | 2145.00            | 33.03                       | 2.01                  |
|      |        | High   | 2160.00            | 33.06                       | 2.02                  |
|      | 16QAM  | Low    | 2130.00            | 33.44                       | 2.21                  |
|      |        | Middle | 2145.00            | 33.41                       | 2.19                  |
|      |        | High   | 2160.00            | 33.44                       | 2.21                  |
|      | 64QAM  | Low    | 2130.00            | 32.86                       | 1.93                  |
|      |        | Middle | 2145.00            | 32.97                       | 1.98                  |
|      |        | High   | 2160.00            | 33.02                       | 2.00                  |
|      | 256QAM | Low    | 2130.00            | 32.87                       | 1.94                  |
|      |        | Middle | 2145.00            | 33.02                       | 2.00                  |
|      |        | High   | 2160.00            | 32.85                       | 1.93                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2130.00         | 7.83  | 9.01  | 7.88  | 7.75   |
| 2145.00         | 7.87  | 9.10  | 7.97  | 8.02   |
| 2160.00         | 8.02  | 9.21  | 8.04  | 7.79   |

## (2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2116.48            | 37.71                       | 5.90                  |
|      |        | Middle | 2138.84            | 37.86                       | 6.11                  |
|      |        | High   | 2168.88            | 38.02                       | 6.34                  |
|      | 16QAM  | Low    | 2123.76            | 37.99                       | 6.29                  |
|      |        | Middle | 2143.04            | 38.07                       | 6.40                  |
|      |        | High   | 2173.52            | 38.46                       | 7.01                  |
|      | 64QAM  | Low    | 2122.64            | 37.71                       | 5.90                  |
|      |        | Middle | 2142.52            | 38.04                       | 6.37                  |
|      |        | High   | 2167.28            | 38.15                       | 6.53                  |
|      | 256QAM | Low    | 2126.92            | 37.65                       | 5.82                  |
|      |        | Middle | 2142.12            | 37.96                       | 6.25                  |
|      |        | High   | 2177.36            | 38.18                       | 6.58                  |
| 1    | QPSK   | Low    | 2126.80            | 37.61                       | 5.77                  |
|      |        | Middle | 2137.44            | 37.84                       | 6.08                  |
|      |        | High   | 2176.28            | 37.90                       | 6.17                  |
|      | 16QAM  | Low    | 2128.68            | 38.04                       | 6.37                  |
|      |        | Middle | 2153.44            | 38.29                       | 6.75                  |
|      |        | High   | 2163.64            | 38.19                       | 6.59                  |
|      | 64QAM  | Low    | 2117.16            | 37.43                       | 5.54                  |
|      |        | Middle | 2138.76            | 37.78                       | 5.99                  |
|      |        | High   | 2174.04            | 37.89                       | 6.15                  |
|      | 256QAM | Low    | 2126.76            | 37.49                       | 5.61                  |
|      |        | Middle | 2141.88            | 37.81                       | 6.03                  |
|      |        | High   | 2166.84            | 37.97                       | 6.27                  |

## Sum Data of Port 0 and Port 1

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2126.76         | 11.67 | 12.67 | 11.44 | 11.43  |
| 2141.88         | 12.19 | 13.15 | 12.37 | 12.29  |
| 2166.84         | 12.51 | 13.60 | 12.68 | 12.85  |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier]**

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2132.75            | 34.46                       | 2.79                  |
|      |        | Middle | 2156.90            | 34.73                       | 2.97                  |
|      |        | High   | 2161.31            | 34.52                       | 2.83                  |
|      | 16QAM  | Low    | 2118.82            | 34.71                       | 2.96                  |
|      |        | Middle | 2156.34            | 35.14                       | 3.27                  |
|      |        | High   | 2158.51            | 35.10                       | 3.23                  |
|      | 64QAM  | Low    | 2113.29            | 34.76                       | 2.99                  |
|      |        | Middle | 2133.52            | 34.84                       | 3.05                  |
|      |        | High   | 2157.25            | 34.60                       | 2.88                  |
|      | 256QAM | Low    | 2113.92            | 34.44                       | 2.78                  |
|      |        | Middle | 2148.78            | 34.91                       | 3.10                  |
|      |        | High   | 2148.29            | 34.58                       | 2.87                  |
| 1    | QPSK   | Low    | 2129.53            | 34.48                       | 2.81                  |
|      |        | Middle | 2152.91            | 34.87                       | 3.07                  |
|      |        | High   | 2158.93            | 34.65                       | 2.92                  |
|      | 16QAM  | Low    | 2118.40            | 34.94                       | 3.12                  |
|      |        | Middle | 2146.61            | 35.09                       | 3.23                  |
|      |        | High   | 2162.15            | 34.99                       | 3.16                  |
|      | 64QAM  | Low    | 2135.13            | 34.62                       | 2.90                  |
|      |        | Middle | 2158.02            | 34.80                       | 3.02                  |
|      |        | High   | 2161.73            | 34.83                       | 3.04                  |
|      | 256QAM | Low    | 2133.03            | 34.71                       | 2.96                  |
|      |        | Middle | 2160.47            | 34.92                       | 3.10                  |
|      |        | High   | 2162.85            | 34.67                       | 2.93                  |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2133.03         | 5.60  | 6.08  | 5.90  | 5.74   |
| 2160.47         | 6.04  | 6.49  | 6.07  | 6.20   |
| 2162.85         | 5.75  | 6.39  | 5.92  | 5.80   |

**(2 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier]**

| Ant. | Mod    | Ch     | Frequency (MHz) | Measured Value (dBm/MHz) | Calculated (W/MHz) |
|------|--------|--------|-----------------|--------------------------|--------------------|
| 0    | QPSK   | Low    | 2132.75         | 34.46                    | 2.79               |
|      |        | Middle | 2156.90         | 34.73                    | 2.97               |
|      |        | High   | 2161.31         | 34.52                    | 2.83               |
|      | 16QAM  | Low    | 2118.82         | 34.71                    | 2.96               |
|      |        | Middle | 2156.34         | 35.14                    | 3.27               |
|      |        | High   | 2158.51         | 35.10                    | 3.23               |
|      | 64QAM  | Low    | 2113.29         | 34.76                    | 2.99               |
|      |        | Middle | 2133.52         | 34.84                    | 3.05               |
|      |        | High   | 2157.25         | 34.60                    | 2.88               |
|      | 256QAM | Low    | 2113.92         | 34.44                    | 2.78               |
|      |        | Middle | 2148.78         | 34.91                    | 3.10               |
|      |        | High   | 2148.29         | 34.58                    | 2.87               |
| 1    | QPSK   | Low    | 2129.53         | 34.48                    | 2.81               |
|      |        | Middle | 2152.91         | 34.87                    | 3.07               |
|      |        | High   | 2158.93         | 34.65                    | 2.92               |
|      | 16QAM  | Low    | 2118.40         | 34.94                    | 3.12               |
|      |        | Middle | 2146.61         | 35.09                    | 3.23               |
|      |        | High   | 2162.15         | 34.99                    | 3.16               |
|      | 64QAM  | Low    | 2135.13         | 34.62                    | 2.90               |
|      |        | Middle | 2158.02         | 34.80                    | 3.02               |
|      |        | High   | 2161.73         | 34.83                    | 3.04               |
|      | 256QAM | Low    | 2133.03         | 34.71                    | 2.96               |
|      |        | Middle | 2160.47         | 34.92                    | 3.10               |
|      |        | High   | 2162.85         | 34.67                    | 2.93               |

**Sum Data of Port 0 and Port 1**

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2133.03         | 5.60  | 6.08  | 5.90  | 5.74   |
| 2160.47         | 6.04  | 6.49  | 6.07  | 6.20   |
| 2162.85         | 5.75  | 6.39  | 5.92  | 5.80   |



**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [4 Carrier]**

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2120.00            | 35.71                       | 3.73                  |
|      |        | Middle | 2145.00            | 35.81                       | 3.81                  |
|      |        | High   | 2170.00            | 35.73                       | 3.74                  |
|      | 16QAM  | Low    | 2120.00            | 36.04                       | 4.02                  |
|      |        | Middle | 2145.00            | 36.20                       | 4.17                  |
|      |        | High   | 2170.00            | 36.18                       | 4.15                  |
|      | 64QAM  | Low    | 2120.00            | 35.74                       | 3.75                  |
|      |        | Middle | 2145.00            | 35.81                       | 3.81                  |
|      |        | High   | 2170.00            | 35.70                       | 3.72                  |
|      | 256QAM | Low    | 2120.00            | 35.71                       | 3.72                  |
|      |        | Middle | 2145.00            | 35.76                       | 3.77                  |
|      |        | High   | 2170.00            | 35.89                       | 3.88                  |
| 1    | QPSK   | Low    | 2120.00            | 35.77                       | 3.78                  |
|      |        | Middle | 2145.00            | 35.83                       | 3.83                  |
|      |        | High   | 2170.00            | 35.98                       | 3.97                  |
|      | 16QAM  | Low    | 2120.00            | 36.16                       | 4.13                  |
|      |        | Middle | 2145.00            | 36.18                       | 4.15                  |
|      |        | High   | 2170.00            | 36.23                       | 4.20                  |
|      | 64QAM  | Low    | 2120.00            | 36.05                       | 4.03                  |
|      |        | Middle | 2145.00            | 35.81                       | 3.81                  |
|      |        | High   | 2170.00            | 35.82                       | 3.82                  |
|      | 256QAM | Low    | 2120.00            | 35.97                       | 3.96                  |
|      |        | Middle | 2145.00            | 35.69                       | 3.71                  |
|      |        | High   | 2170.00            | 35.91                       | 3.90                  |

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 2    | QPSK   | Low    | 2120.00            | 35.85                       | 3.85                  |
|      |        | Middle | 2145.00            | 36.04                       | 4.02                  |
|      |        | High   | 2170.00            | 35.88                       | 3.87                  |
|      | 16QAM  | Low    | 2120.00            | 36.17                       | 4.14                  |
|      |        | Middle | 2145.00            | 36.36                       | 4.32                  |
|      |        | High   | 2170.00            | 36.50                       | 4.47                  |
|      | 64QAM  | Low    | 2120.00            | 35.83                       | 3.82                  |
|      |        | Middle | 2145.00            | 36.13                       | 4.10                  |
|      |        | High   | 2170.00            | 35.72                       | 3.74                  |
|      | 256QAM | Low    | 2120.00            | 35.97                       | 3.96                  |
|      |        | Middle | 2145.00            | 36.14                       | 4.12                  |
|      |        | High   | 2170.00            | 35.82                       | 3.82                  |
| 3    | QPSK   | Low    | 2120.00            | 35.71                       | 3.72                  |
|      |        | Middle | 2145.00            | 35.94                       | 3.92                  |
|      |        | High   | 2170.00            | 35.97                       | 3.95                  |
|      | 16QAM  | Low    | 2120.00            | 36.40                       | 4.37                  |
|      |        | Middle | 2145.00            | 36.29                       | 4.26                  |
|      |        | High   | 2170.00            | 36.13                       | 4.10                  |
|      | 64QAM  | Low    | 2120.00            | 35.83                       | 3.83                  |
|      |        | Middle | 2145.00            | 36.18                       | 4.14                  |
|      |        | High   | 2170.00            | 35.73                       | 3.74                  |
|      | 256QAM | Low    | 2120.00            | 35.76                       | 3.77                  |
|      |        | Middle | 2145.00            | 36.12                       | 4.09                  |
|      |        | High   | 2170.00            | 35.91                       | 3.90                  |

#### Sum Data of Port 0, Port 1, Port 2 and Port 3

| Frequency (MHz) | PSD   |       |       |        |
|-----------------|-------|-------|-------|--------|
|                 | QPSK  | 16QAM | 64QAM | 256QAM |
|                 | W/MHz |       |       |        |
| 2120.00         | 15.08 | 16.65 | 15.42 | 15.40  |
| 2145.00         | 15.58 | 16.90 | 15.86 | 15.68  |
| 2170.00         | 15.53 | 16.92 | 15.02 | 15.50  |

**(4 Port) B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier + B66 LTE 20 MHz 1 Carrier [4 Carrier]**

| Ant. | Mod    | Ch     | Frequency<br>(MHz) | Measured Value<br>(dBm/MHz) | Calculated<br>(W/MHz) |
|------|--------|--------|--------------------|-----------------------------|-----------------------|
| 0    | QPSK   | Low    | 2127.50            | 33.26                       | 2.12                  |
|      |        | Middle | 2145.00            | 33.50                       | 2.24                  |
|      |        | High   | 2162.50            | 33.50                       | 2.24                  |
|      | 16QAM  | Low    | 2127.50            | 33.43                       | 2.20                  |
|      |        | Middle | 2145.00            | 33.58                       | 2.28                  |
|      |        | High   | 2162.50            | 33.42                       | 2.20                  |
|      | 64QAM  | Low    | 2127.50            | 33.25                       | 2.11                  |
|      |        | Middle | 2145.00            | 33.21                       | 2.09                  |
|      |        | High   | 2162.50            | 33.40                       | 2.19                  |
|      | 256QAM | Low    | 2127.50            | 33.34                       | 2.16                  |
|      |        | Middle | 2145.00            | 33.43                       | 2.20                  |
|      |        | High   | 2162.50            | 33.53                       | 2.25                  |
| 1    | QPSK   | Low    | 2127.50            | 33.30                       | 2.14                  |
|      |        | Middle | 2145.00            | 33.58                       | 2.28                  |
|      |        | High   | 2162.50            | 33.48                       | 2.23                  |
|      | 16QAM  | Low    | 2127.50            | 33.49                       | 2.24                  |
|      |        | Middle | 2145.00            | 33.67                       | 2.33                  |
|      |        | High   | 2162.50            | 33.97                       | 2.49                  |
|      | 64QAM  | Low    | 2127.50            | 33.20                       | 2.09                  |
|      |        | Middle | 2145.00            | 33.49                       | 2.23                  |
|      |        | High   | 2162.50            | 33.47                       | 2.22                  |
|      | 256QAM | Low    | 2127.50            | 33.38                       | 2.18                  |
|      |        | Middle | 2145.00            | 33.28                       | 2.13                  |
|      |        | High   | 2162.50            | 33.39                       | 2.18                  |