

## Appendix - LTE Band 5

### 1. Effective (Isotropic) Radiated Power Output Data

#### 1.1 Test Result

##### 1.1.1 B5\_1.4MHz\_ERP

| Band: 5 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                       |            |           |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                               | 824.7           | 1             | 0      | 22.62                 | -2.65      | 17.82     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.61                 | -2.65      | 17.81     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 22.64                 | -2.65      | 17.84     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 22.58                 | -2.65      | 17.78     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.63                 | -2.65      | 17.83     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 22.67                 | -2.65      | 17.87     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 22.20                 | -2.65      | 17.40     | <=38.45 | Pass    |
|                                    | 836.5           | 1             | 0      | 22.43                 | -2.65      | 17.63     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.59                 | -2.65      | 17.79     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 22.57                 | -2.65      | 17.77     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 22.73                 | -2.65      | 17.93     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.66                 | -2.65      | 17.86     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 22.64                 | -2.65      | 17.84     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 22.14                 | -2.65      | 17.34     | <=38.45 | Pass    |
|                                    | 848.3           | 1             | 0      | 22.59                 | -2.65      | 17.79     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.62                 | -2.65      | 17.82     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 22.63                 | -2.65      | 17.83     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 22.58                 | -2.65      | 17.78     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.62                 | -2.65      | 17.82     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 22.58                 | -2.65      | 17.78     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 21.99                 | -2.65      | 17.19     | <=38.45 | Pass    |
| 16QAM                              | 824.7           | 1             | 0      | 21.63                 | -2.65      | 16.83     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 21.68                 | -2.65      | 16.88     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 21.67                 | -2.65      | 16.87     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 21.96                 | -2.65      | 17.16     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 21.97                 | -2.65      | 17.17     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 21.95                 | -2.65      | 17.15     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 21.48                 | -2.65      | 16.68     | <=38.45 | Pass    |
|                                    | 836.5           | 1             | 0      | 22.24                 | -2.65      | 17.44     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.25                 | -2.65      | 17.45     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 22.27                 | -2.65      | 17.47     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 22.12                 | -2.65      | 17.32     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 22.09                 | -2.65      | 17.29     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 22.06                 | -2.65      | 17.26     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 21.25                 | -2.65      | 16.45     | <=38.45 | Pass    |
|                                    | 848.3           | 1             | 0      | 21.64                 | -2.65      | 16.84     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 21.66                 | -2.65      | 16.86     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 21.67                 | -2.65      | 16.87     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 21.90                 | -2.65      | 17.10     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 21.82                 | -2.65      | 17.02     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 21.83                 | -2.65      | 17.03     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 21.31                 | -2.65      | 16.51     | <=38.45 | Pass    |

Note1: ERP=Conducted Power+Antenna Gain-2.15

##### 1.1.2 B5\_3MHz\_ERP

| Band: 5 / Bandwidth: 3MHz / NTNV             |                 |               |        |                       |            |           |         |         |      |
|----------------------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|------|
| Modulation                                   | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |      |
|                                              |                 | Size          | Offset |                       |            | Result    | Limit   |         |      |
| QPSK                                         | 825.5           | 1             | 0      | 22.60                 | -2.65      | 17.80     | <=38.45 | Pass    |      |
|                                              |                 |               | 7      | 22.59                 | -2.65      | 17.79     | <=38.45 | Pass    |      |
|                                              |                 |               | 14     | 22.56                 | -2.65      | 17.76     | <=38.45 | Pass    |      |
|                                              |                 | 8             | 0      | 22.19                 | -2.65      | 17.39     | <=38.45 | Pass    |      |
|                                              |                 |               | 4      | 22.18                 | -2.65      | 17.38     | <=38.45 | Pass    |      |
|                                              |                 |               | 7      | 22.08                 | -2.65      | 17.28     | <=38.45 | Pass    |      |
|                                              |                 | 15            | 0      | 22.11                 | -2.65      | 17.31     | <=38.45 | Pass    |      |
|                                              |                 | 836.5         | 1      | 0                     | 22.52      | -2.65     | 17.72   | <=38.45 | Pass |
|                                              |                 |               |        | 7                     | 22.60      | -2.65     | 17.80   | <=38.45 | Pass |
|                                              | 14              |               |        | 22.61                 | -2.65      | 17.81     | <=38.45 | Pass    |      |
|                                              | 8               |               | 0      | 22.14                 | -2.65      | 17.34     | <=38.45 | Pass    |      |
|                                              |                 |               | 4      | 22.19                 | -2.65      | 17.39     | <=38.45 | Pass    |      |
|                                              |                 |               | 7      | 22.20                 | -2.65      | 17.40     | <=38.45 | Pass    |      |
|                                              | 15              | 0             | 22.20  | -2.65                 | 17.40      | <=38.45   | Pass    |         |      |
|                                              | 847.5           | 1             | 0      | 22.52                 | -2.65      | 17.72     | <=38.45 | Pass    |      |
|                                              |                 |               | 7      | 22.48                 | -2.65      | 17.68     | <=38.45 | Pass    |      |
|                                              |                 |               | 14     | 22.46                 | -2.65      | 17.66     | <=38.45 | Pass    |      |
|                                              |                 | 8             | 0      | 22.05                 | -2.65      | 17.25     | <=38.45 | Pass    |      |
|                                              |                 |               | 4      | 22.01                 | -2.65      | 17.21     | <=38.45 | Pass    |      |
|                                              |                 |               | 7      | 22.08                 | -2.65      | 17.28     | <=38.45 | Pass    |      |
|                                              |                 | 15            | 0      | 22.15                 | -2.65      | 17.35     | <=38.45 | Pass    |      |
| 16QAM                                        |                 | 825.5         | 1      | 0                     | 21.91      | -2.65     | 17.11   | <=38.45 | Pass |
|                                              |                 |               |        | 7                     | 21.91      | -2.65     | 17.11   | <=38.45 | Pass |
|                                              | 14              |               |        | 21.88                 | -2.65      | 17.08     | <=38.45 | Pass    |      |
|                                              | 8               |               | 0      | 21.60                 | -2.65      | 16.80     | <=38.45 | Pass    |      |
|                                              |                 |               | 4      | 21.61                 | -2.65      | 16.81     | <=38.45 | Pass    |      |
|                                              |                 |               | 7      | 21.34                 | -2.65      | 16.54     | <=38.45 | Pass    |      |
|                                              | 15              |               | 0      | 21.47                 | -2.65      | 16.67     | <=38.45 | Pass    |      |
|                                              | 836.5           |               | 1      | 0                     | 22.86      | -2.65     | 18.06   | <=38.45 | Pass |
|                                              |                 |               |        | 7                     | 22.91      | -2.65     | 18.11   | <=38.45 | Pass |
|                                              |                 | 14            |        | 22.86                 | -2.65      | 18.06     | <=38.45 | Pass    |      |
|                                              |                 | 8             | 0      | 21.29                 | -2.65      | 16.49     | <=38.45 | Pass    |      |
|                                              |                 |               | 4      | 21.33                 | -2.65      | 16.53     | <=38.45 | Pass    |      |
|                                              |                 |               | 7      | 21.30                 | -2.65      | 16.50     | <=38.45 | Pass    |      |
|                                              | 15              | 0             | 21.25  | -2.65                 | 16.45      | <=38.45   | Pass    |         |      |
|                                              | 847.5           | 1             | 0      | 22.40                 | -2.65      | 17.60     | <=38.45 | Pass    |      |
|                                              |                 |               | 7      | 22.39                 | -2.65      | 17.59     | <=38.45 | Pass    |      |
|                                              |                 |               | 14     | 22.29                 | -2.65      | 17.49     | <=38.45 | Pass    |      |
|                                              |                 | 8             | 0      | 21.38                 | -2.65      | 16.58     | <=38.45 | Pass    |      |
|                                              |                 |               | 4      | 21.35                 | -2.65      | 16.55     | <=38.45 | Pass    |      |
|                                              |                 |               | 7      | 21.44                 | -2.65      | 16.64     | <=38.45 | Pass    |      |
|                                              |                 | 15            | 0      | 21.18                 | -2.65      | 16.38     | <=38.45 | Pass    |      |
| Note1: ERP=Conducted Power+Antenna Gain-2.15 |                 |               |        |                       |            |           |         |         |      |

### 1.1.3 B5\_5MHz\_ERP

| Band: 5 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |           |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                             | 826.5           | 1             | 0      | 22.68                 | -2.65      | 17.88     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.52                 | -2.65      | 17.72     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 22.50                 | -2.65      | 17.70     | <=38.45 | Pass    |
|                                  |                 | 12            | 0      | 22.11                 | -2.65      | 17.31     | <=38.45 | Pass    |
|                                  |                 |               | 6      | 22.12                 | -2.65      | 17.32     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.10                 | -2.65      | 17.30     | <=38.45 | Pass    |

|       |       |    |    |       |       |       |         |      |
|-------|-------|----|----|-------|-------|-------|---------|------|
| 16QAM | 836.5 | 25 | 0  | 22.12 | -2.65 | 17.32 | <=38.45 | Pass |
|       |       |    | 0  | 22.66 | -2.65 | 17.86 | <=38.45 | Pass |
|       |       |    | 13 | 22.68 | -2.65 | 17.88 | <=38.45 | Pass |
|       |       | 1  | 24 | 22.65 | -2.65 | 17.85 | <=38.45 | Pass |
|       |       |    | 0  | 22.11 | -2.65 | 17.31 | <=38.45 | Pass |
|       |       |    | 6  | 22.14 | -2.65 | 17.34 | <=38.45 | Pass |
|       |       |    | 13 | 22.17 | -2.65 | 17.37 | <=38.45 | Pass |
|       |       | 12 | 0  | 22.15 | -2.65 | 17.35 | <=38.45 | Pass |
|       |       |    | 0  | 22.54 | -2.65 | 17.74 | <=38.45 | Pass |
|       |       |    | 13 | 22.60 | -2.65 | 17.80 | <=38.45 | Pass |
|       | 846.5 | 1  | 24 | 22.51 | -2.65 | 17.71 | <=38.45 | Pass |
|       |       |    | 0  | 22.13 | -2.65 | 17.33 | <=38.45 | Pass |
|       |       |    | 6  | 22.08 | -2.65 | 17.28 | <=38.45 | Pass |
|       |       | 12 | 13 | 22.07 | -2.65 | 17.27 | <=38.45 | Pass |
|       |       |    | 0  | 22.09 | -2.65 | 17.29 | <=38.45 | Pass |
|       |       | 25 | 0  | 22.29 | -2.65 | 17.49 | <=38.45 | Pass |
|       |       |    | 13 | 22.23 | -2.65 | 17.43 | <=38.45 | Pass |
|       |       |    | 24 | 22.35 | -2.65 | 17.55 | <=38.45 | Pass |
|       |       | 1  | 0  | 21.44 | -2.65 | 16.64 | <=38.45 | Pass |
|       |       |    | 6  | 21.20 | -2.65 | 16.40 | <=38.45 | Pass |
|       |       |    | 13 | 21.19 | -2.65 | 16.39 | <=38.45 | Pass |
| 16QAM | 826.5 | 12 | 0  | 21.37 | -2.65 | 16.57 | <=38.45 | Pass |
|       |       |    | 0  | 22.29 | -2.65 | 17.49 | <=38.45 | Pass |
|       |       |    | 13 | 22.25 | -2.65 | 17.45 | <=38.45 | Pass |
|       |       | 1  | 24 | 22.22 | -2.65 | 17.42 | <=38.45 | Pass |
|       |       |    | 0  | 21.22 | -2.65 | 16.42 | <=38.45 | Pass |
|       |       |    | 6  | 21.28 | -2.65 | 16.48 | <=38.45 | Pass |
|       |       | 12 | 13 | 21.28 | -2.65 | 16.48 | <=38.45 | Pass |
|       |       |    | 0  | 21.21 | -2.65 | 16.41 | <=38.45 | Pass |
|       |       | 25 | 0  | 21.20 | -2.65 | 16.40 | <=38.45 | Pass |
|       |       |    | 13 | 21.22 | -2.65 | 16.42 | <=38.45 | Pass |
|       |       |    | 24 | 21.21 | -2.65 | 16.41 | <=38.45 | Pass |
|       | 836.5 | 1  | 0  | 21.19 | -2.65 | 16.39 | <=38.45 | Pass |
|       |       |    | 6  | 21.20 | -2.65 | 16.40 | <=38.45 | Pass |
|       |       |    | 13 | 21.14 | -2.65 | 16.34 | <=38.45 | Pass |
|       |       | 12 | 0  | 21.25 | -2.65 | 16.45 | <=38.45 | Pass |
|       |       |    | 0  | 22.29 | -2.65 | 17.49 | <=38.45 | Pass |
|       |       |    | 13 | 22.23 | -2.65 | 17.43 | <=38.45 | Pass |
|       |       | 1  | 24 | 22.35 | -2.65 | 17.55 | <=38.45 | Pass |
|       |       |    | 0  | 21.44 | -2.65 | 16.64 | <=38.45 | Pass |
|       |       |    | 6  | 21.20 | -2.65 | 16.40 | <=38.45 | Pass |
|       |       | 12 | 13 | 21.19 | -2.65 | 16.39 | <=38.45 | Pass |
|       |       |    | 0  | 21.37 | -2.65 | 16.57 | <=38.45 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.4 B5\_10MHz\_ERP

| Band: 5 / Bandwidth: 10MHz / NTV |                 |               |        |                       |            |           |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                             | 829             | 1             | 0      | 22.69                 | -2.65      | 17.89     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 22.63                 | -2.65      | 17.83     | <=38.45 | Pass    |
|                                  |                 |               | 49     | 22.67                 | -2.65      | 17.87     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 22.01                 | -2.65      | 17.21     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.12                 | -2.65      | 17.32     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 22.13                 | -2.65      | 17.33     | <=38.45 | Pass    |
|                                  |                 | 50            | 0      | 22.18                 | -2.65      | 17.38     | <=38.45 | Pass    |
|                                  |                 |               | 0      | 22.72                 | -2.65      | 17.92     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 22.72                 | -2.65      | 17.92     | <=38.45 | Pass    |
|                                  | 836.5           | 1             | 49     | 22.74                 | -2.65      | 17.94     | <=38.45 | Pass    |
|                                  |                 |               | 0      | 22.11                 | -2.65      | 17.31     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.26                 | -2.65      | 17.46     | <=38.45 | Pass    |
|                                  |                 | 25            | 25     | 22.07                 | -2.65      | 17.27     | <=38.45 | Pass    |
|                                  |                 |               | 0      | 22.21                 | -2.65      | 17.41     | <=38.45 | Pass    |
|                                  |                 |               | 0      | 22.51                 | -2.65      | 17.71     | <=38.45 | Pass    |
|                                  |                 | 50            | 0      | 22.21                 | -2.65      | 17.41     | <=38.45 | Pass    |
|                                  |                 |               | 0      | 22.51                 | -2.65      | 17.71     | <=38.45 | Pass    |
|                                  |                 |               | 0      | 22.51                 | -2.65      | 17.71     | <=38.45 | Pass    |

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|       |       |    |       |       |       |         |         |      |
|-------|-------|----|-------|-------|-------|---------|---------|------|
| 16QAM |       | 25 | 25    | 22.38 | -2.65 | 17.58   | <=38.45 | Pass |
|       |       |    | 49    | 22.50 | -2.65 | 17.70   | <=38.45 | Pass |
|       |       |    | 0     | 22.14 | -2.65 | 17.34   | <=38.45 | Pass |
|       |       |    | 13    | 21.99 | -2.65 | 17.19   | <=38.45 | Pass |
|       |       |    | 25    | 22.13 | -2.65 | 17.33   | <=38.45 | Pass |
|       | 50    | 0  | 22.02 | -2.65 | 17.22 | <=38.45 | Pass    |      |
|       |       |    | 21.66 | -2.65 | 16.86 | <=38.45 | Pass    |      |
|       |       |    | 21.62 | -2.65 | 16.82 | <=38.45 | Pass    |      |
|       |       |    | 21.68 | -2.65 | 16.88 | <=38.45 | Pass    |      |
|       |       |    | 21.43 | -2.65 | 16.63 | <=38.45 | Pass    |      |
|       | 829   | 1  | 21.33 | -2.65 | 16.53 | <=38.45 | Pass    |      |
|       |       |    | 21.60 | -2.65 | 16.80 | <=38.45 | Pass    |      |
|       |       |    | 21.28 | -2.65 | 16.48 | <=38.45 | Pass    |      |
|       |       |    | 22.32 | -2.65 | 17.52 | <=38.45 | Pass    |      |
|       |       |    | 22.37 | -2.65 | 17.57 | <=38.45 | Pass    |      |
|       | 836.5 | 1  | 22.32 | -2.65 | 17.52 | <=38.45 | Pass    |      |
|       |       |    | 21.34 | -2.65 | 16.54 | <=38.45 | Pass    |      |
|       |       |    | 21.33 | -2.65 | 16.53 | <=38.45 | Pass    |      |
|       |       |    | 21.43 | -2.65 | 16.63 | <=38.45 | Pass    |      |
|       |       |    | 21.33 | -2.65 | 16.53 | <=38.45 | Pass    |      |
|       | 844   | 1  | 21.33 | -2.65 | 16.53 | <=38.45 | Pass    |      |
|       |       |    | 22.30 | -2.65 | 17.50 | <=38.45 | Pass    |      |
|       |       |    | 22.27 | -2.65 | 17.47 | <=38.45 | Pass    |      |
|       |       |    | 22.36 | -2.65 | 17.56 | <=38.45 | Pass    |      |
|       |       |    | 21.22 | -2.65 | 16.42 | <=38.45 | Pass    |      |
|       |       | 25 | 13    | -2.65 | 16.29 | <=38.45 | Pass    |      |
|       |       |    | 21.20 | -2.65 | 16.40 | <=38.45 | Pass    |      |
|       |       |    | 21.15 | -2.65 | 16.35 | <=38.45 | Pass    |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B5\_1.4MHz

| Band: 5 / Bandwidth: 1.4MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 824.7           | 6             | 0      | 20         | 3.27          | -24.748          | -0.0300               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -6.337           | -0.0077               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | 25.034           | 0.0304                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | 44.904           | 0.0544                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | 10.114           | 0.0123                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | 21.586           | 0.0262                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | 30.012           | 0.0364                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.85          | 35.763           | 0.0434                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.85          | 44.875           | 0.0544                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.85          | -3.848           | -0.0047               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.85          | -4.506           | -0.0055               | -2.5 to 2.5 | Pass    |
|                             | 836.5           | 6             | 0      | 20         | 3.27          | -33.045          | -0.0395               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.85          | -26.479          | -0.0317               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.43          | -26.107          | -0.0312               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.85          | -43.631          | -0.0522               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.85          | -33.216          | -0.0397               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.85          | -9.327           | -0.0112               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.85          | -26.751          | -0.0320               | -2.5 to 2.5 | Pass    |

|       |       |   |   |     |      |         |         |             |      |
|-------|-------|---|---|-----|------|---------|---------|-------------|------|
|       |       |   |   | 10  | 3.85 | -38.667 | -0.0462 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | 3.777   | 0.0045  | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | -2.532  | -0.0030 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | -4.721  | -0.0056 | -2.5 to 2.5 | Pass |
|       |       |   |   | 20  | 3.27 | 12.774  | 0.0151  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.85 | 13.762  | 0.0162  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.43 | 15.507  | 0.0183  | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.85 | 20.127  | 0.0237  | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.85 | 23.475  | 0.0277  | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.85 | 23.618  | 0.0278  | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | 26.436  | 0.0312  | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | 25.692  | 0.0303  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | 29.984  | 0.0353  | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | 28.539  | 0.0336  | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | 30.141  | 0.0355  | -2.5 to 2.5 | Pass |
| 16QAM | 848.3 | 6 | 0 | 20  | 3.27 | -0.815  | -0.0010 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.85 | -12.188 | -0.0148 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.43 | -22.445 | -0.0272 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.85 | -28.481 | -0.0345 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.85 | -31.457 | -0.0381 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.85 | -35.591 | -0.0432 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | -40.627 | -0.0493 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | -0.086  | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | -1.659  | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | -5.207  | -0.0063 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | -6.509  | -0.0079 | -2.5 to 2.5 | Pass |
|       | 836.5 | 6 | 0 | 20  | 3.27 | -10.042 | -0.0120 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.85 | -8.368  | -0.0100 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.43 | -9.499  | -0.0114 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.85 | -10.543 | -0.0126 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.85 | -9.041  | -0.0108 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.85 | -12.345 | -0.0148 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | -9.942  | -0.0119 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | -7.739  | -0.0093 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | -11.945 | -0.0143 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | -10.886 | -0.0130 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | -10.529 | -0.0126 | -2.5 to 2.5 | Pass |
|       | 848.3 | 6 | 0 | 20  | 3.27 | 32.530  | 0.0383  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.85 | 33.388  | 0.0394  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.43 | 32.187  | 0.0379  | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.85 | 31.242  | 0.0368  | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.85 | 29.812  | 0.0351  | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.85 | 31.428  | 0.0370  | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.85 | 30.956  | 0.0365  | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.85 | 31.800  | 0.0375  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.85 | 32.873  | 0.0388  | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.85 | 33.031  | 0.0389  | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.85 | 31.686  | 0.0374  | -2.5 to 2.5 | Pass |

## 2.1.2 B5\_3MHz

| Band: 5 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 825.5           | 15            | 0      | 20         | 3.27          | 2.575            | 0.0031                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | -17.095          | -0.0207               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | -27.580          | -0.0334               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | -32.115          | -0.0389               | -2.5 to 2.5 | Pass    |

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Version: 1/00

|       |       |    |   |     |      |         |         |             |      |
|-------|-------|----|---|-----|------|---------|---------|-------------|------|
|       |       |    |   | -20 | 3.85 | -35.648 | -0.0432 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -37.208 | -0.0451 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -38.595 | -0.0468 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -35.620 | -0.0431 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -35.462 | -0.0430 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -36.192 | -0.0438 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -33.803 | -0.0409 | -2.5 to 2.5 | Pass |
|       | 836.5 | 15 | 0 | 20  | 3.27 | 8.698   | 0.0104  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 5.879   | 0.0070  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 6.080   | 0.0073  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 10.428  | 0.0125  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 10.943  | 0.0131  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 13.633  | 0.0163  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 14.405  | 0.0172  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 14.491  | 0.0173  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 14.277  | 0.0171  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 14.119  | 0.0169  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 17.009  | 0.0203  | -2.5 to 2.5 | Pass |
|       | 847.5 | 15 | 0 | 20  | 3.27 | 7.339   | 0.0087  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 6.108   | 0.0072  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 8.225   | 0.0097  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 10.457  | 0.0123  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 11.644  | 0.0137  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 13.804  | 0.0163  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 16.608  | 0.0196  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 19.569  | 0.0231  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 20.013  | 0.0236  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 18.725  | 0.0221  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 21.229  | 0.0250  | -2.5 to 2.5 | Pass |
| 16QAM | 825.5 | 15 | 0 | 20  | 3.27 | -32.272 | -0.0391 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | -35.262 | -0.0427 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | -37.537 | -0.0455 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | -38.495 | -0.0466 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | -39.368 | -0.0477 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | -41.528 | -0.0503 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | -41.313 | -0.0500 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | -40.212 | -0.0487 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | -39.067 | -0.0473 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | -40.298 | -0.0488 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | -41.885 | -0.0507 | -2.5 to 2.5 | Pass |
|       | 836.5 | 15 | 0 | 20  | 3.27 | 19.641  | 0.0235  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 18.897  | 0.0226  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 12.617  | 0.0151  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 12.202  | 0.0146  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 8.183   | 0.0098  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 8.454   | 0.0101  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 6.881   | 0.0082  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 3.734   | 0.0045  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 3.85 | 4.549   | 0.0054  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 3.85 | 5.050   | 0.0060  | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 3.85 | 5.879   | 0.0070  | -2.5 to 2.5 | Pass |
|       | 847.5 | 15 | 0 | 20  | 3.27 | 20.514  | 0.0242  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 3.85 | 17.452  | 0.0206  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 4.43 | 16.136  | 0.0190  | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 3.85 | 14.391  | 0.0170  | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 3.85 | 11.559  | 0.0136  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 3.85 | 13.547  | 0.0160  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 3.85 | 11.573  | 0.0137  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 3.85 | 12.188  | 0.0144  | -2.5 to 2.5 | Pass |

|  |  |  |  |    |      |        |        |             |      |
|--|--|--|--|----|------|--------|--------|-------------|------|
|  |  |  |  | 30 | 3.85 | 12.503 | 0.0148 | -2.5 to 2.5 | Pass |
|  |  |  |  | 40 | 3.85 | 9.913  | 0.0117 | -2.5 to 2.5 | Pass |
|  |  |  |  | 50 | 3.85 | 7.610  | 0.0090 | -2.5 to 2.5 | Pass |

### 2.1.3 B5\_5MHz

| Band: 5 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 826.5           | 25            | 0      | 20         | 3.27          | -0.443           | -0.0005               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | -29.511          | -0.0357               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | -13.204          | -0.0160               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | -26.150          | -0.0316               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.85          | -26.164          | -0.0317               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.85          | -26.078          | -0.0316               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.85          | -30.956          | -0.0375               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.85          | -30.456          | -0.0368               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.85          | -25.377          | -0.0307               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.85          | -23.732          | -0.0287               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.85          | -22.144          | -0.0268               | -2.5 to 2.5 | Pass    |
|                           | 836.5           | 25            | 0      | 20         | 3.27          | 10.443           | 0.0125                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | 6.723            | 0.0080                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | 4.849            | 0.0058                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | 0.887            | 0.0011                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.85          | -1.760           | -0.0021               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.85          | -2.518           | -0.0030               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.85          | -8.469           | -0.0101               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.85          | -19.512          | -0.0233               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.85          | -31.843          | -0.0381               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.85          | -40.483          | -0.0484               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.85          | -47.565          | -0.0569               | -2.5 to 2.5 | Pass    |
|                           | 846.5           | 25            | 0      | 20         | 3.27          | 0.372            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | -2.947           | -0.0035               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | -3.190           | -0.0038               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | -8.812           | -0.0104               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.85          | -8.712           | -0.0103               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.85          | -11.573          | -0.0137               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.85          | -9.613           | -0.0114               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.85          | -10.414          | -0.0123               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.85          | -9.499           | -0.0112               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.85          | -11.201          | -0.0132               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.85          | -12.002          | -0.0142               | -2.5 to 2.5 | Pass    |
| 16QAM                     | 826.5           | 25            | 0      | 20         | 3.27          | -18.911          | -0.0229               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | -15.149          | -0.0183               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | -11.230          | -0.0136               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | -7.310           | -0.0088               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.85          | -1.230           | -0.0015               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 3.85          | 1.860            | 0.0023                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 3.85          | 4.377            | 0.0053                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 3.85          | 7.811            | 0.0095                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 3.85          | 11.644           | 0.0141                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 3.85          | 12.903           | 0.0156                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 3.85          | 17.166           | 0.0208                | -2.5 to 2.5 | Pass    |
|                           | 836.5           | 25            | 0      | 20         | 3.27          | -3.977           | -0.0048               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 3.85          | -5.236           | -0.0063               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 4.43          | -6.480           | -0.0077               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 3.85          | -7.825           | -0.0094               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 3.85          | -9.527           | -0.0114               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            |               |                  |                       |             |         |

|  |       |    |   |     |      |         |         |             |      |
|--|-------|----|---|-----|------|---------|---------|-------------|------|
|  |       |    |   | -10 | 3.85 | -8.655  | -0.0103 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.85 | -11.201 | -0.0134 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.85 | -12.302 | -0.0147 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.85 | -11.287 | -0.0135 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.85 | -14.834 | -0.0177 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | -14.334 | -0.0171 | -2.5 to 2.5 | Pass |
|  | 846.5 | 25 | 0 | 20  | 3.27 | -11.358 | -0.0134 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 3.85 | -9.799  | -0.0116 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 4.43 | -13.905 | -0.0164 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 3.85 | -12.074 | -0.0143 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.85 | -13.690 | -0.0162 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.85 | -12.589 | -0.0149 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.85 | -13.046 | -0.0154 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.85 | -13.189 | -0.0156 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.85 | -13.547 | -0.0160 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.85 | -14.849 | -0.0175 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | -15.235 | -0.0180 | -2.5 to 2.5 | Pass |

## 2.1.4 B5\_10MHz

| Band: 5 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 829             | 50            | 0      | 20         | 3.27          | -33.145          | -0.0400               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -35.219          | -0.0425               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | 1.416            | 0.0017                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -35.691          | -0.0431               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -6.952           | -0.0084               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -21.229          | -0.0256               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -29.283          | -0.0353               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -35.849          | -0.0432               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -37.479          | -0.0452               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -37.465          | -0.0452               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | -38.753          | -0.0467               | -2.5 to 2.5 | Pass    |
|                            | 836.5           | 50            | 0      | 20         | 3.27          | 3.848            | 0.0046                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | 4.950            | 0.0059                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | 3.748            | 0.0045                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | 4.177            | 0.0050                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | 3.819            | 0.0046                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | 2.618            | 0.0031                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | 2.174            | 0.0026                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | 4.206            | 0.0050                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | 5.293            | 0.0063                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | 6.266            | 0.0075                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | 8.183            | 0.0098                | -2.5 to 2.5 | Pass    |
|                            | 844             | 50            | 0      | 20         | 3.27          | -3.104           | -0.0037               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -8.683           | -0.0103               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.43          | -7.668           | -0.0091               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.85          | -8.426           | -0.0100               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.85          | -8.755           | -0.0104               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.85          | -4.606           | -0.0055               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.85          | -5.593           | -0.0066               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.85          | -4.249           | -0.0050               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.85          | -2.861           | -0.0034               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.85          | -0.744           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.85          | 0.930            | 0.0011                | -2.5 to 2.5 | Pass    |
| 16QAM                      | 829             | 50            | 0      | 20         | 3.27          | -38.223          | -0.0461               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.85          | -40.040          | -0.0483               | -2.5 to 2.5 | Pass    |

|  |       |    |   |     |      |         |         |             |      |
|--|-------|----|---|-----|------|---------|---------|-------------|------|
|  |       |    |   |     | 4.43 | -41.428 | -0.0500 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 3.85 | 0.343   | 0.0004  | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.85 | 0.072   | 0.0001  | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.85 | -1.073  | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.85 | -0.958  | -0.0012 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.85 | -0.687  | -0.0008 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.85 | -2.489  | -0.0030 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.85 | -1.817  | -0.0022 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | -0.930  | -0.0011 | -2.5 to 2.5 | Pass |
|  | 836.5 | 50 | 0 | 20  | 3.27 | 10.858  | 0.0130  | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 3.85 | 13.733  | 0.0164  | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 4.43 | 17.667  | 0.0211  | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 3.85 | 17.295  | 0.0207  | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.85 | 19.898  | 0.0238  | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.85 | 24.018  | 0.0287  | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.85 | 23.732  | 0.0284  | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.85 | 27.452  | 0.0328  | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.85 | 25.463  | 0.0304  | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.85 | 15.907  | 0.0190  | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | 9.985   | 0.0119  | -2.5 to 2.5 | Pass |
|  | 844   | 50 | 0 | 20  | 3.27 | 2.389   | 0.0028  | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 3.85 | -3.047  | -0.0036 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 4.43 | -3.419  | -0.0041 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 3.85 | -4.120  | -0.0049 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 3.85 | -7.668  | -0.0091 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 3.85 | -6.237  | -0.0074 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 3.85 | -5.951  | -0.0071 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 3.85 | -4.034  | -0.0048 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 3.85 | -2.632  | -0.0031 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 3.85 | -3.176  | -0.0038 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 3.85 | -3.633  | -0.0043 | -2.5 to 2.5 | Pass |

### 3. Modulation Characteristics

#### 3.1 Test Result

##### 3.1.1 B5\_1.4MHz

| Band: 5 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                            |       |         |
|------------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                    |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                               | 836.5           | 6             | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                              | 836.5           | 6             | 0      | Refer To Test Graph        |       | Pass    |

##### 3.1.2 B5\_3MHz

| Band: 5 / Bandwidth: 3MHz / NTVN |                 |               |        |                            |       |         |
|----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                  |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                             | 836.5           | 15            | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                            | 836.5           | 15            | 0      | Refer To Test Graph        |       | Pass    |

##### 3.1.3 B5\_5MHz

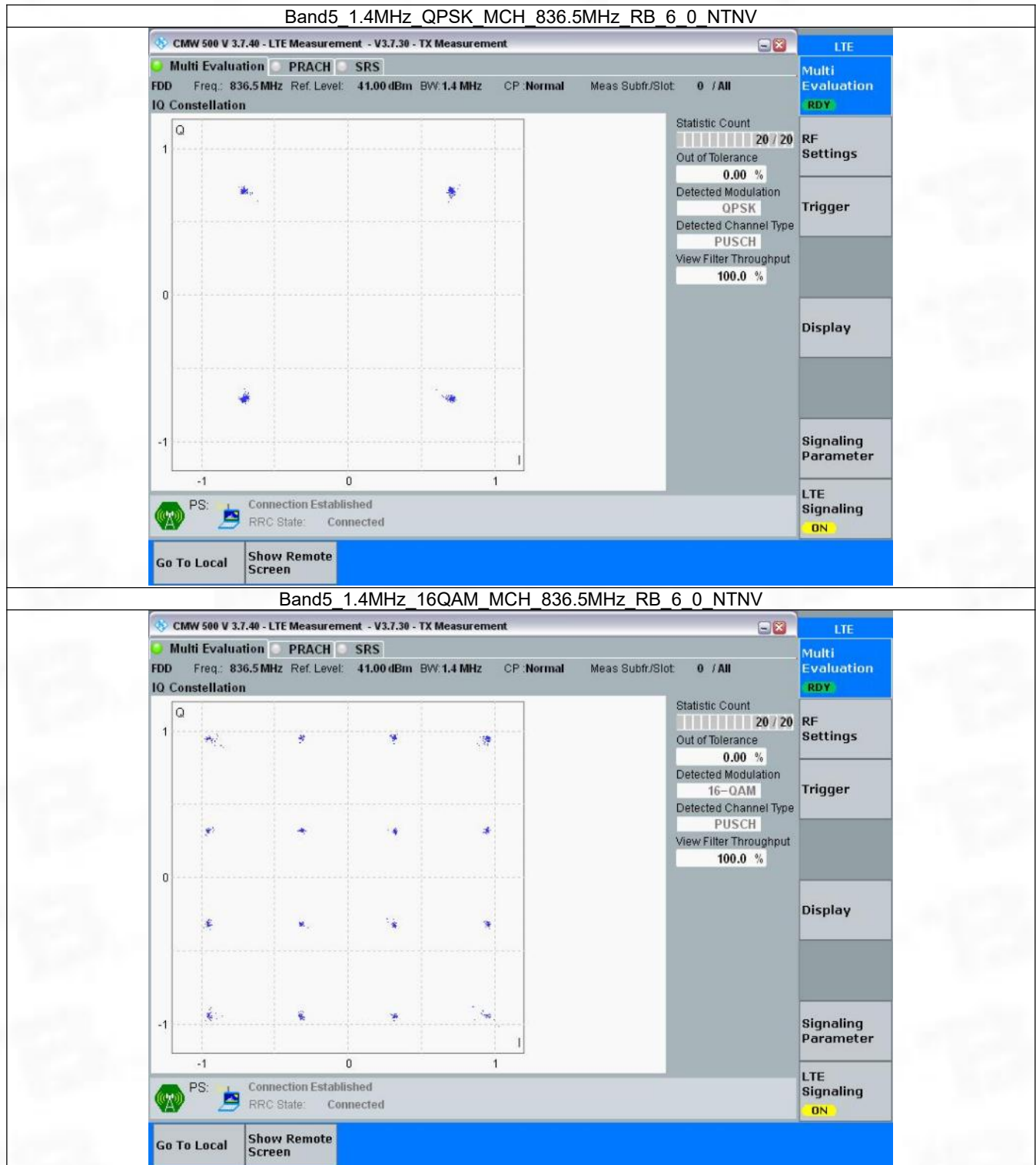
| Band: 5 / Bandwidth: 5MHz / NTV |                 |               |        |                            |       |         |
|---------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                 |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                            | 836.5           | 25            | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                           | 836.5           | 25            | 0      | Refer To Test Graph        |       | Pass    |

### 3.1.4 B5\_10MHz

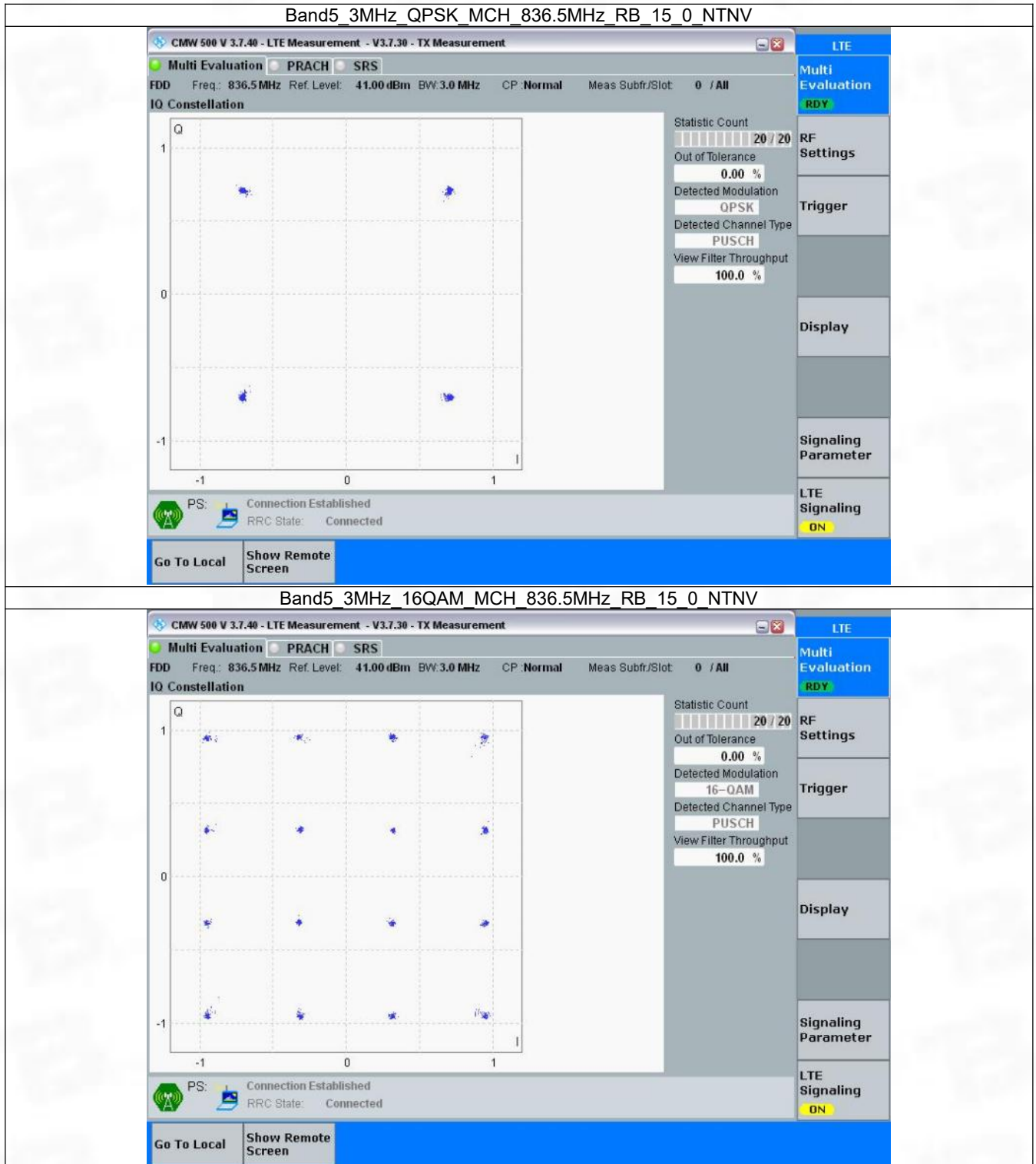
| Band: 5 / Bandwidth: 10MHz / NTNV |                 |               |        |                            |       |         |
|-----------------------------------|-----------------|---------------|--------|----------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Modulation Characteristics |       | Verdict |
|                                   |                 | Size          | Offset | Result                     | Limit |         |
| QPSK                              | 836.5           | 50            | 0      | Refer To Test Graph        |       | Pass    |
| 16QAM                             | 836.5           | 50            | 0      | Refer To Test Graph        |       | Pass    |

## 3.2 Test Graph

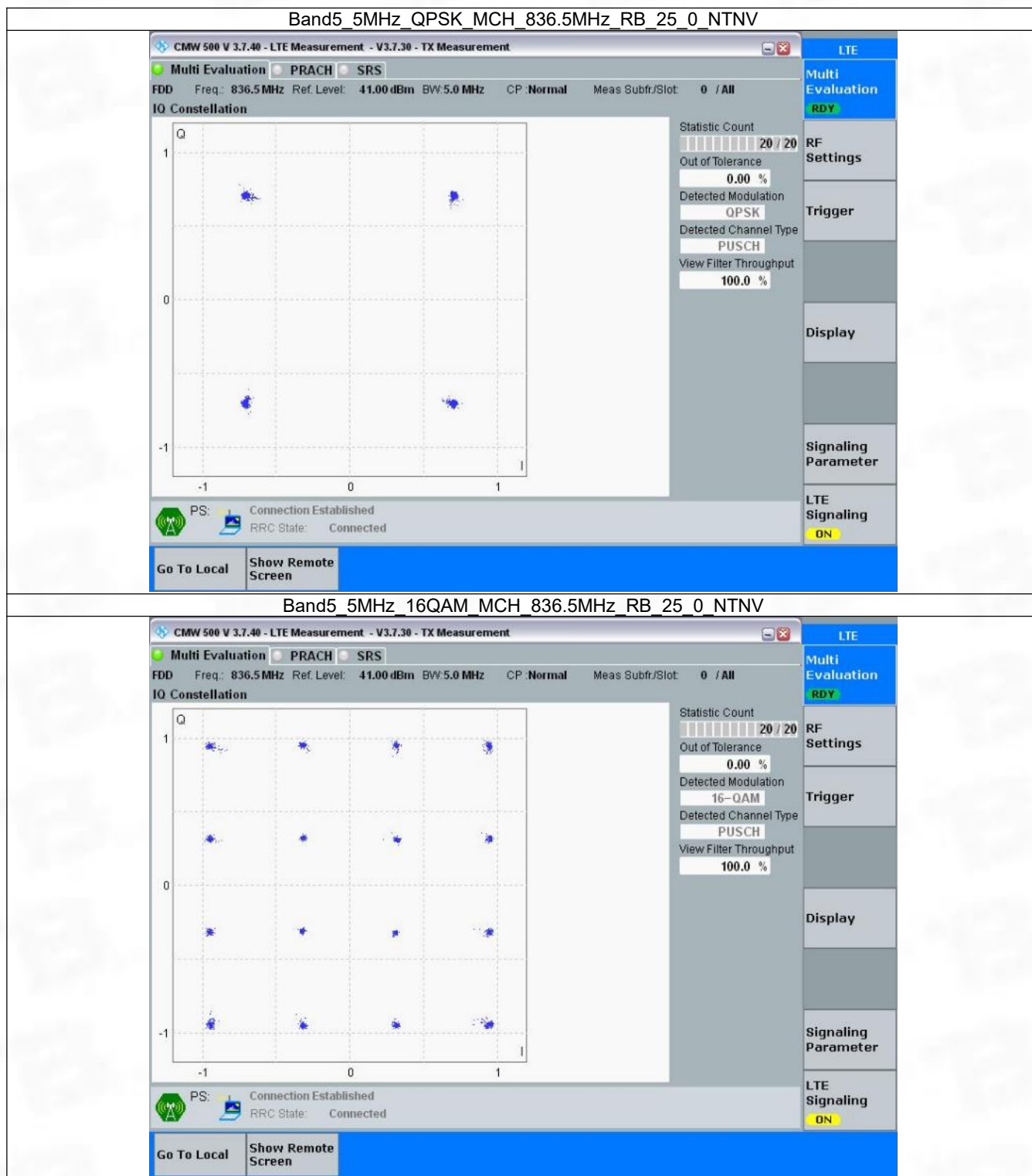
### 3.2.1 B5\_1.4MHz



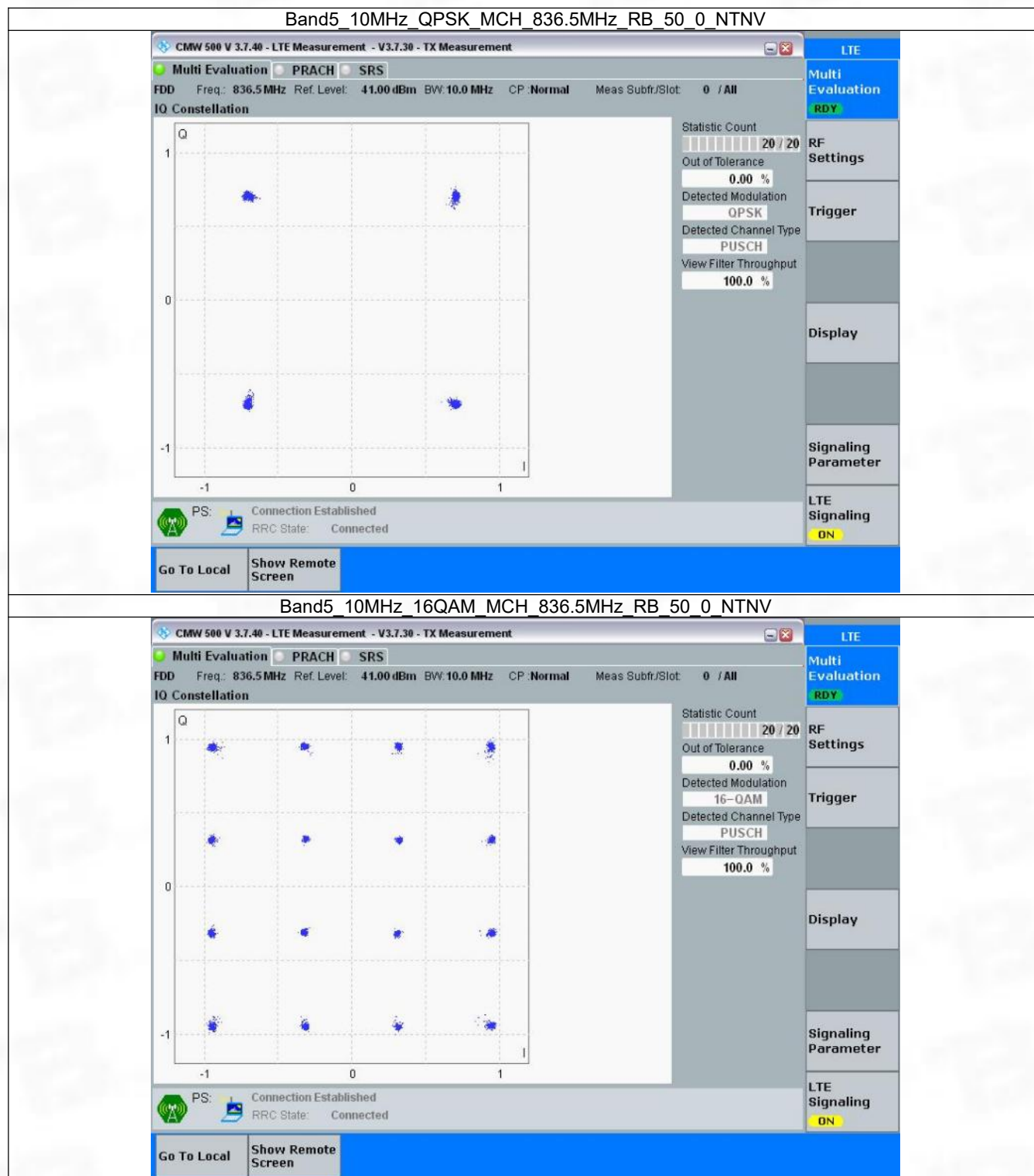
### 3.2.2 B5\_3MHz



### 3.2.3 B5\_5MHz



### 3.2.4 B5\_10MHz



## 4. 99% & 26dB Bandwidth

### 4.1 Test Result

#### 4.1.1 Band5\_OBW

| Band: 5 / NTNV  |            |                 |               |        |                              |       |         |
|-----------------|------------|-----------------|---------------|--------|------------------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result                       | Limit |         |
| 1.4             | QPSK       | 824.7           | 6             | 0      | 1.091                        | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.089                        | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.090                        | /     | Pass    |
|                 | 16QAM      | 824.7           | 6             | 0      | 1.092                        | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.085                        | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.089                        | /     | Pass    |
| 3               | QPSK       | 825.5           | 15            | 0      | 2.691                        | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.690                        | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 2.694                        | /     | Pass    |
|                 | 16QAM      | 825.5           | 15            | 0      | 2.689                        | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.689                        | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 2.693                        | /     | Pass    |
| 5               | QPSK       | 826.5           | 25            | 0      | 4.509                        | /     | Pass    |
|                 |            | 836.5           | 25            | 0      | 4.518                        | /     | Pass    |
|                 |            | 846.5           | 25            | 0      | 4.543                        | /     | Pass    |
|                 | 16QAM      | 826.5           | 25            | 0      | 4.530                        | /     | Pass    |
|                 |            | 836.5           | 25            | 0      | 4.532                        | /     | Pass    |
|                 |            | 846.5           | 25            | 0      | 4.517                        | /     | Pass    |
| 10              | QPSK       | 829             | 50            | 0      | 8.968                        | /     | Pass    |
|                 |            | 836.5           | 50            | 0      | 8.958                        | /     | Pass    |
|                 |            | 844             | 50            | 0      | 8.969                        | /     | Pass    |
|                 | 16QAM      | 829             | 50            | 0      | 8.947                        | /     | Pass    |
|                 |            | 836.5           | 50            | 0      | 8.972                        | /     | Pass    |
|                 |            | 844             | 50            | 0      | 8.947                        | /     | Pass    |

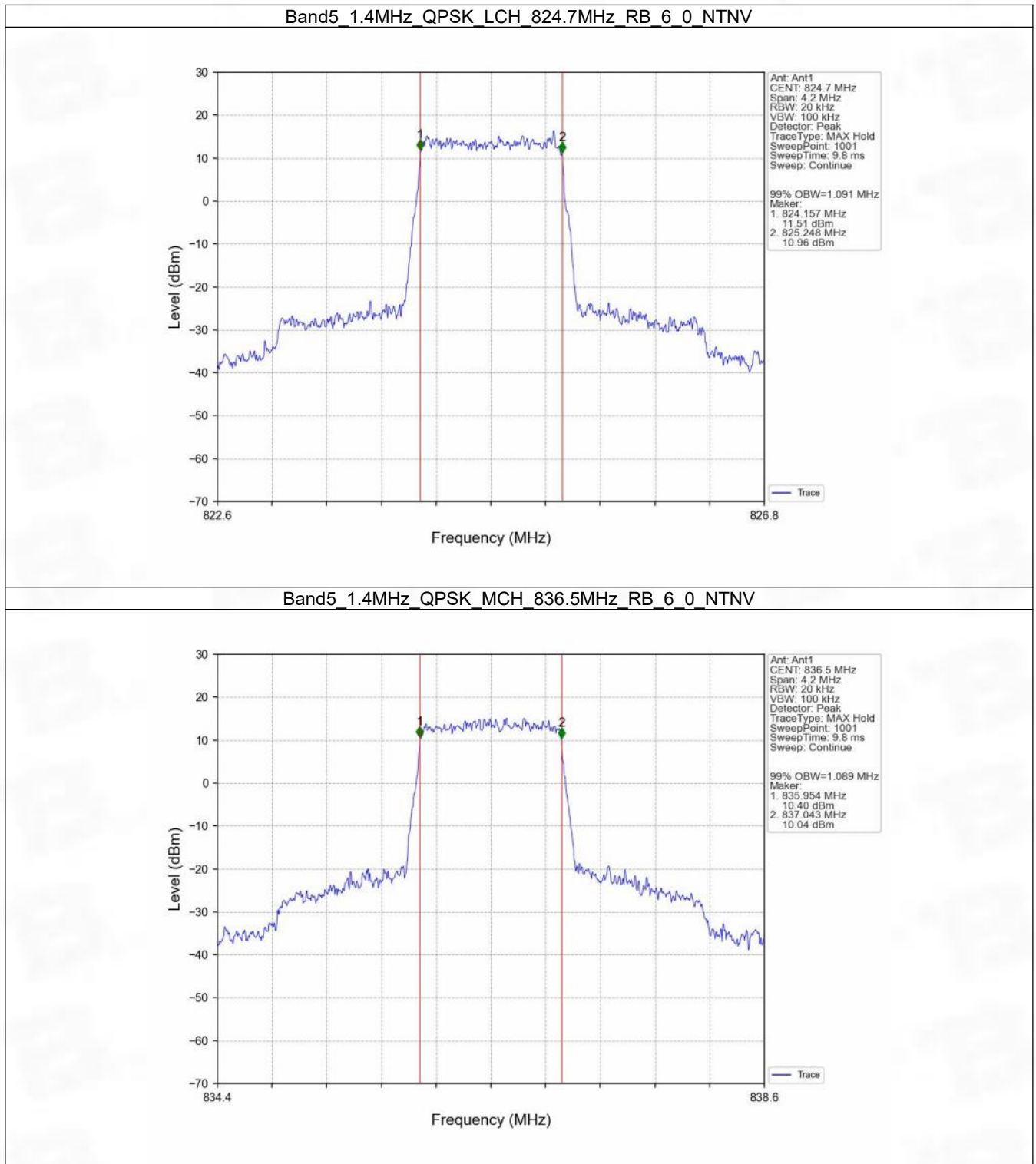
#### 4.1.2 Band5\_XDB

| Band: 5 / NTNV  |            |                 |               |        |                      |       |         |
|-----------------|------------|-----------------|---------------|--------|----------------------|-------|---------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | RB Allocation |        | 26dB Bandwidth (MHz) |       | Verdict |
|                 |            |                 | Size          | Offset | Result               | Limit |         |
| 1.4             | QPSK       | 824.7           | 6             | 0      | 1.226                | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.241                | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.239                | /     | Pass    |
|                 | 16QAM      | 824.7           | 6             | 0      | 1.242                | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.226                | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.238                | /     | Pass    |
| 3               | QPSK       | 825.5           | 15            | 0      | 2.990                | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.987                | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 2.966                | /     | Pass    |
|                 | 16QAM      | 825.5           | 15            | 0      | 3.010                | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.994                | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 3.019                | /     | Pass    |
| 5               | QPSK       | 826.5           | 25            | 0      | 4.987                | /     | Pass    |
|                 |            | 836.5           | 25            | 0      | 4.979                | /     | Pass    |
|                 |            | 846.5           | 25            | 0      | 4.990                | /     | Pass    |

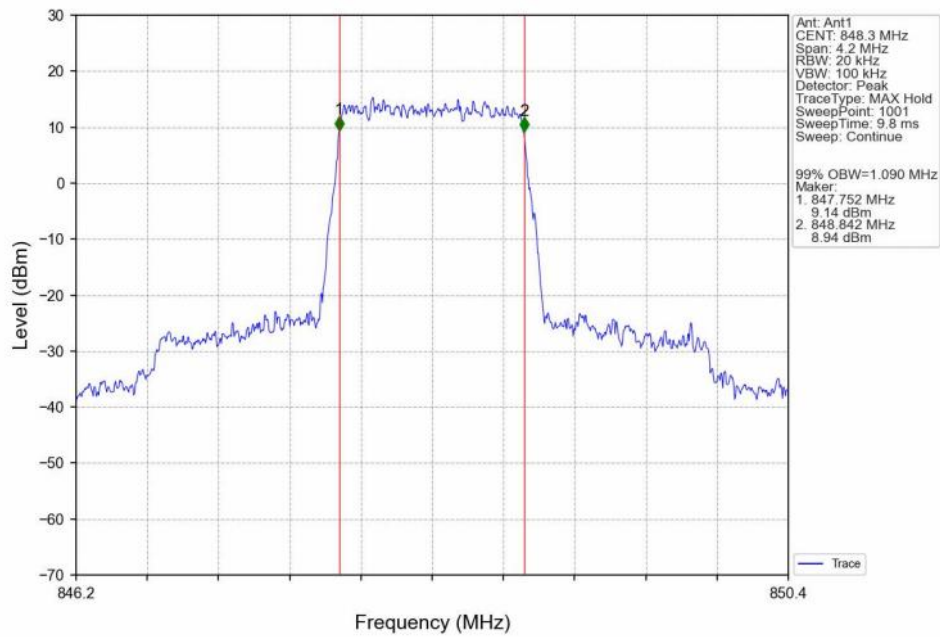
|    |       |       |    |   |       |   |      |
|----|-------|-------|----|---|-------|---|------|
|    | 16QAM | 826.5 | 25 | 0 | 5.007 | / | Pass |
|    |       | 836.5 | 25 | 0 | 4.998 | / | Pass |
|    |       | 846.5 | 25 | 0 | 4.974 | / | Pass |
| 10 | QPSK  | 829   | 50 | 0 | 9.711 | / | Pass |
|    |       | 836.5 | 50 | 0 | 9.686 | / | Pass |
|    |       | 844   | 50 | 0 | 9.744 | / | Pass |
|    | 16QAM | 829   | 50 | 0 | 9.810 | / | Pass |
|    |       | 836.5 | 50 | 0 | 9.725 | / | Pass |
|    |       | 844   | 50 | 0 | 9.700 | / | Pass |

## 4.2 Test Graph

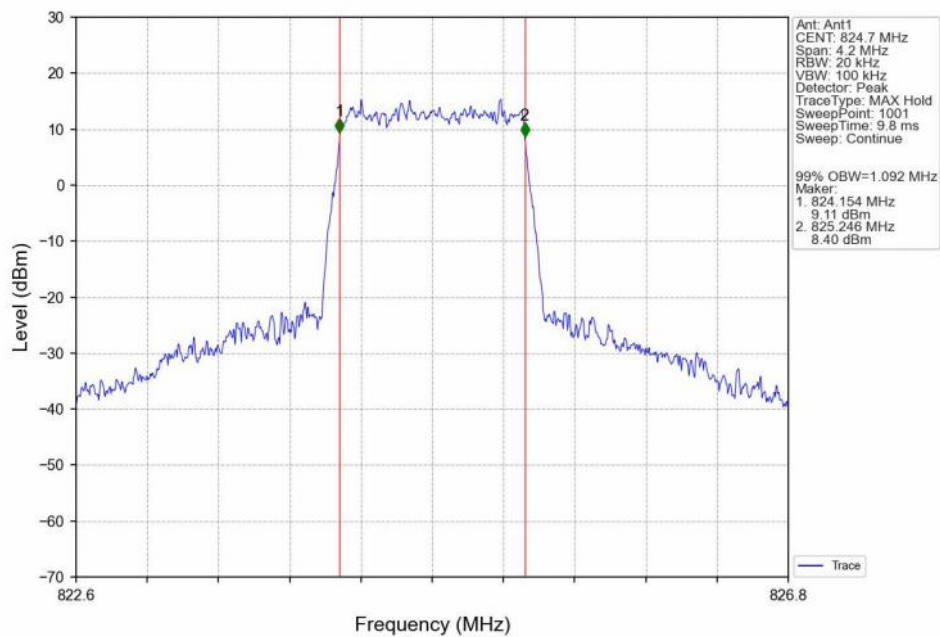
### 4.2.1 Band5\_OBW



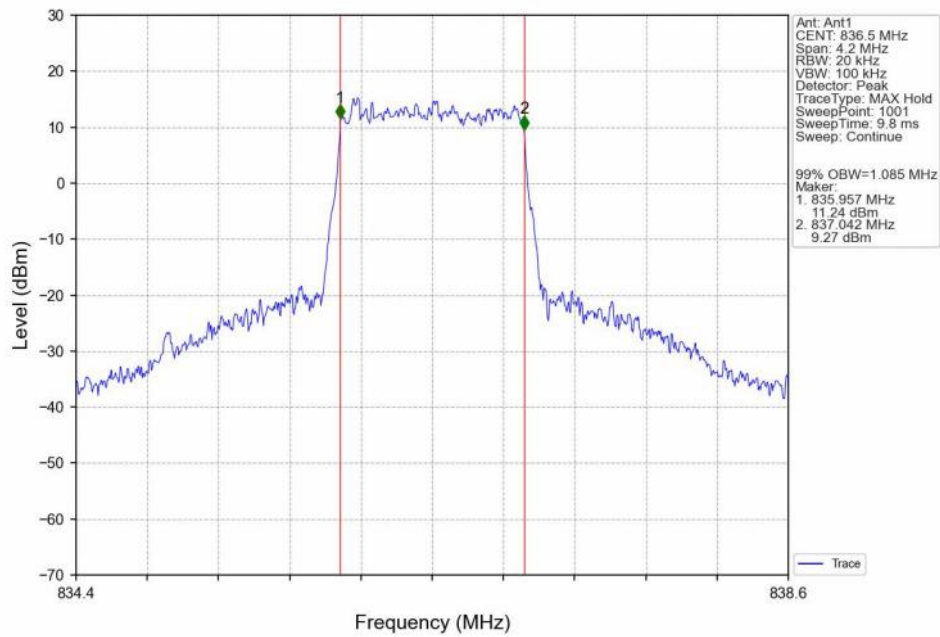
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



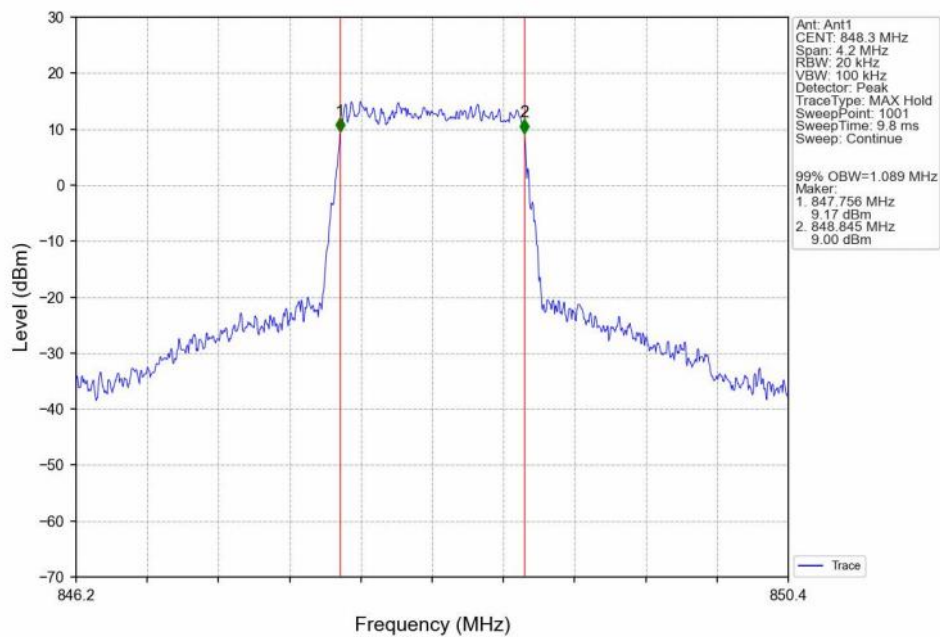
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



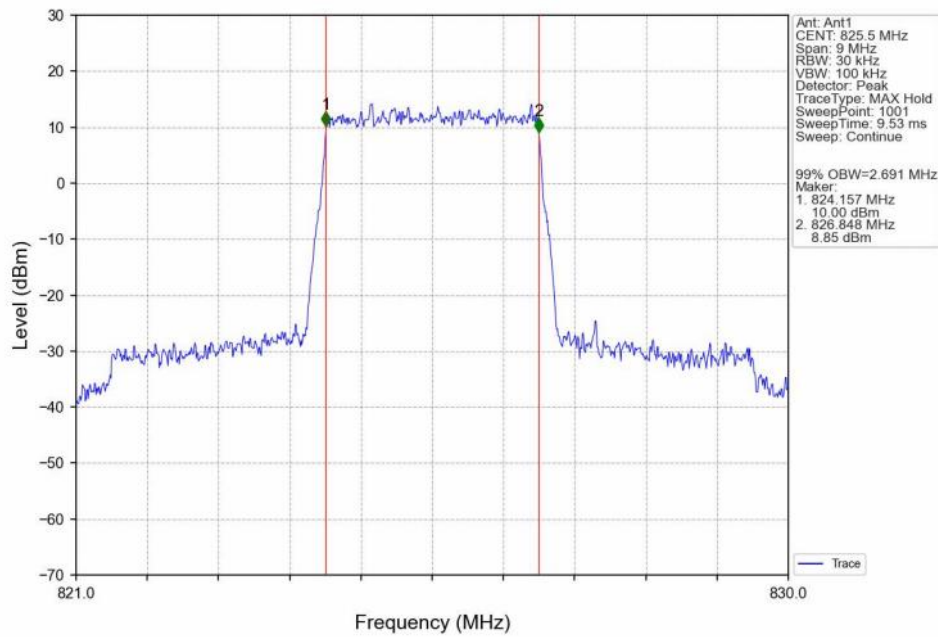
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



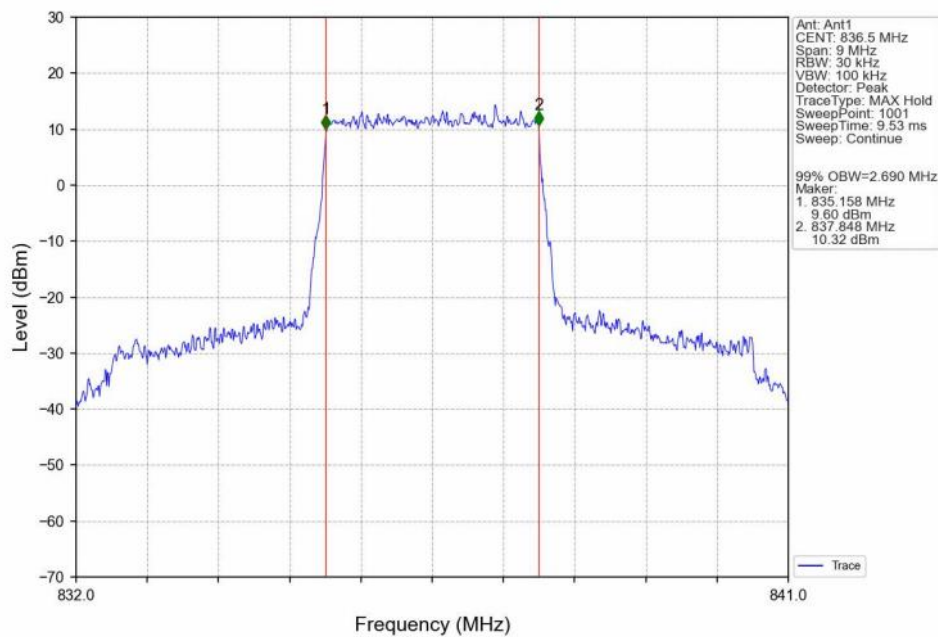
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



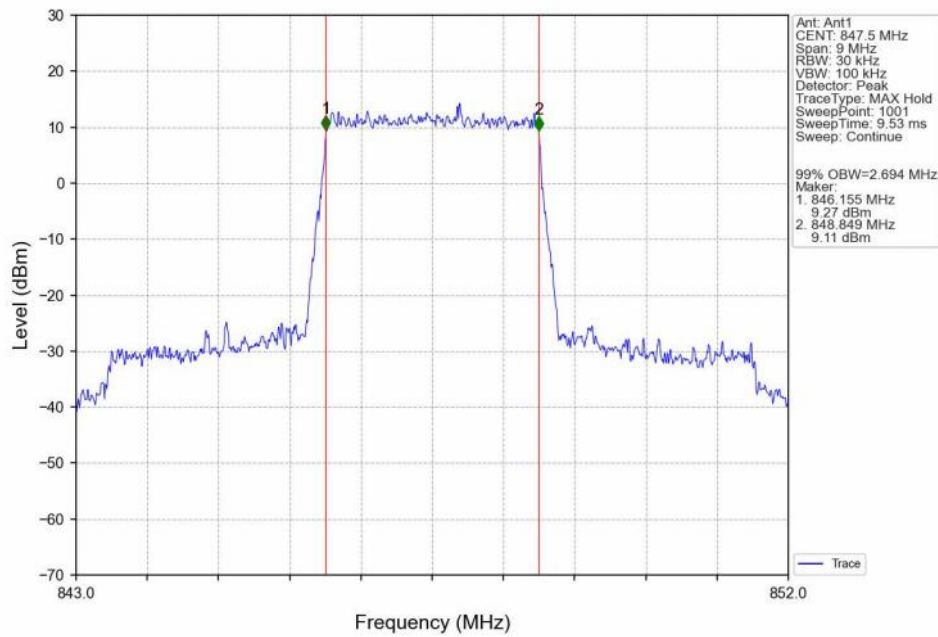
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



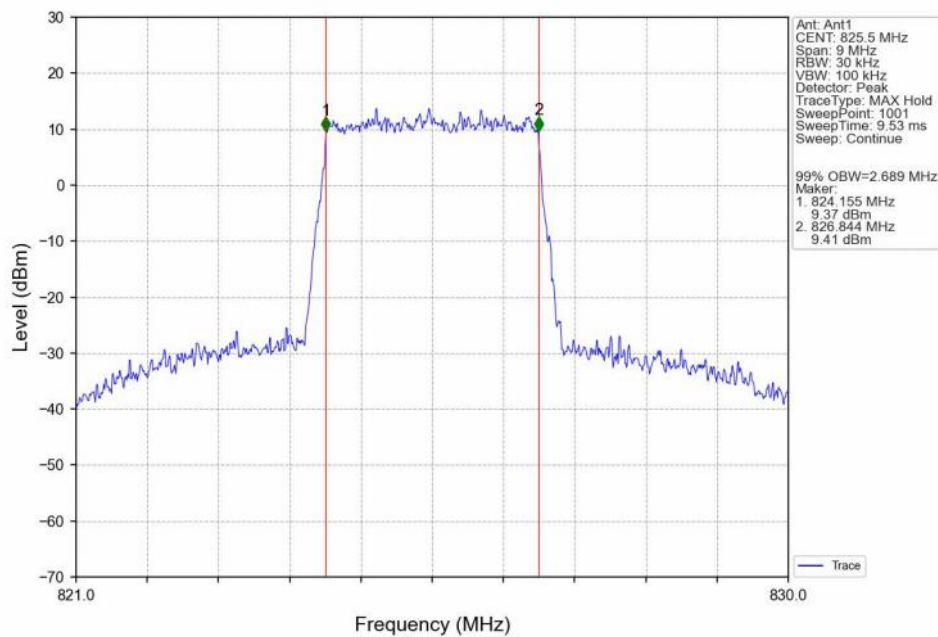
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



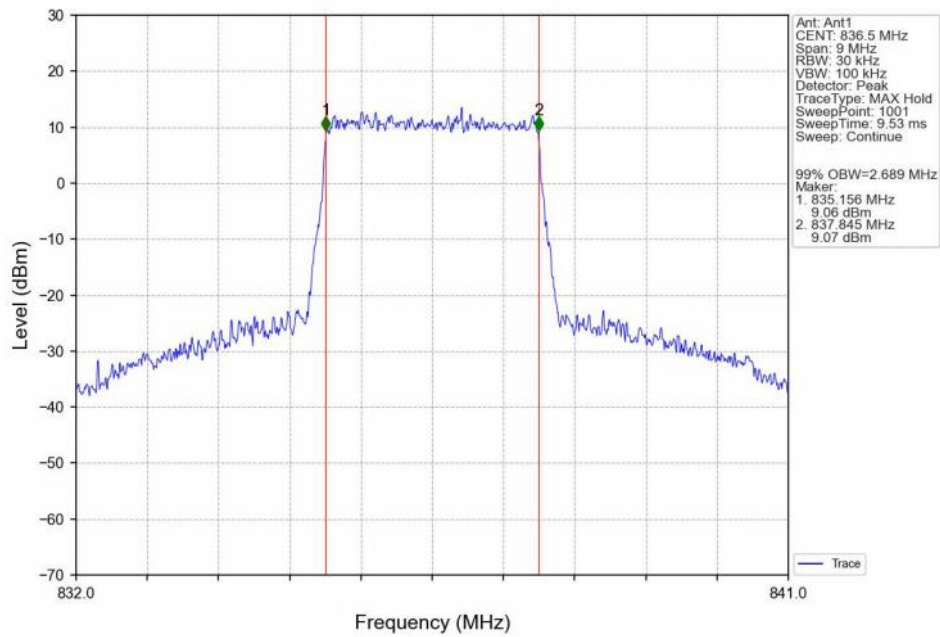
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



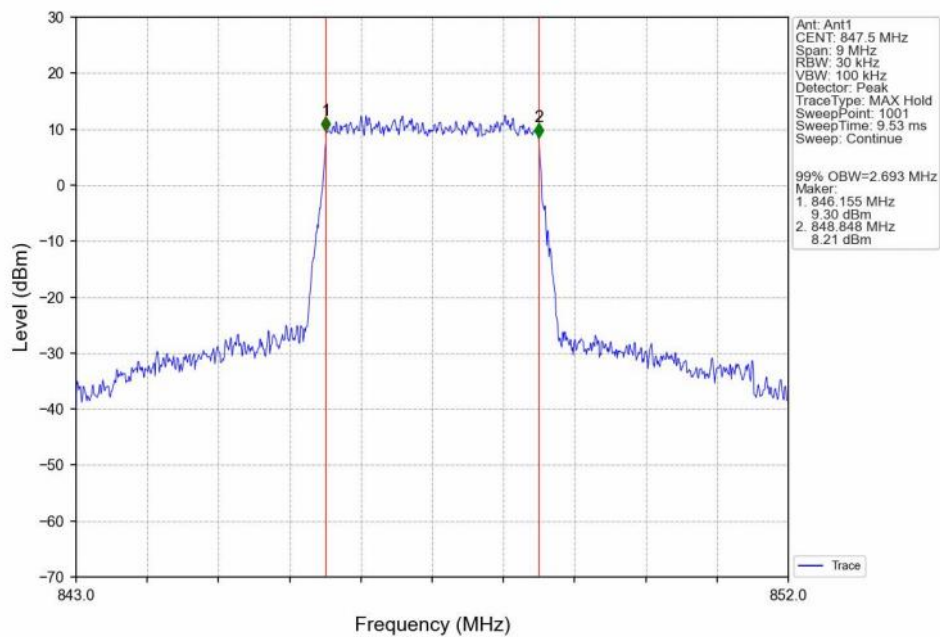
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



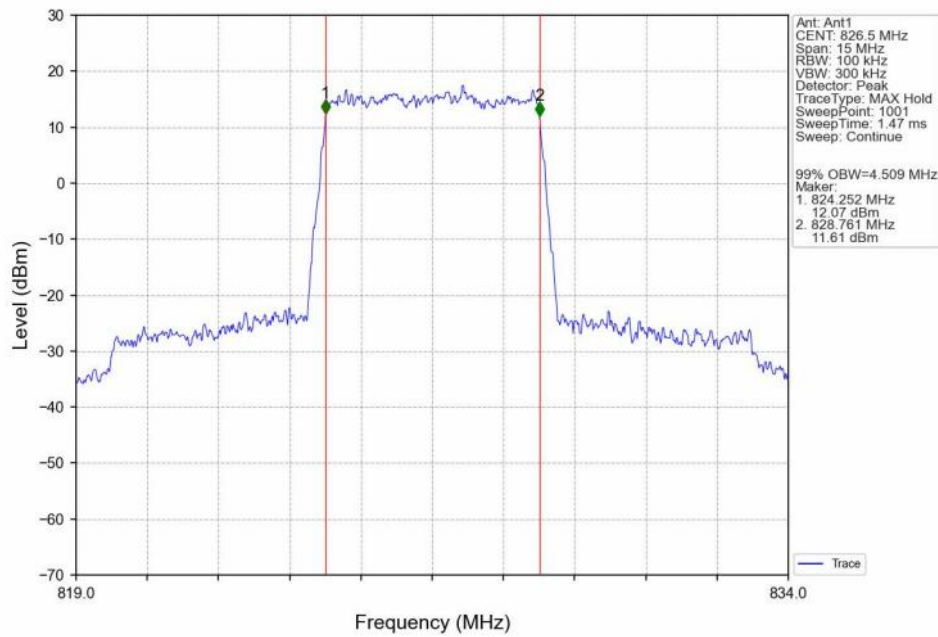
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



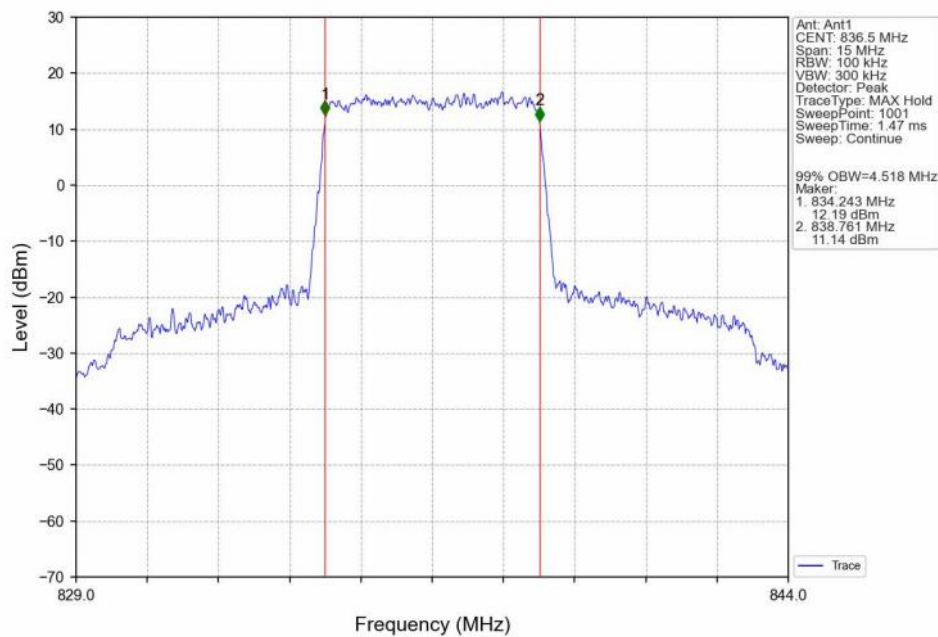
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



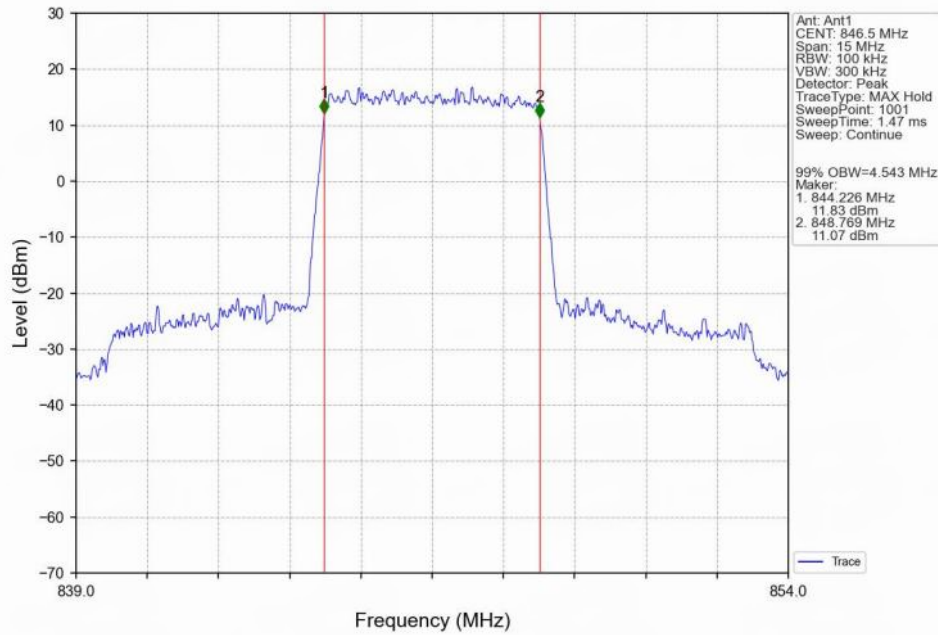
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



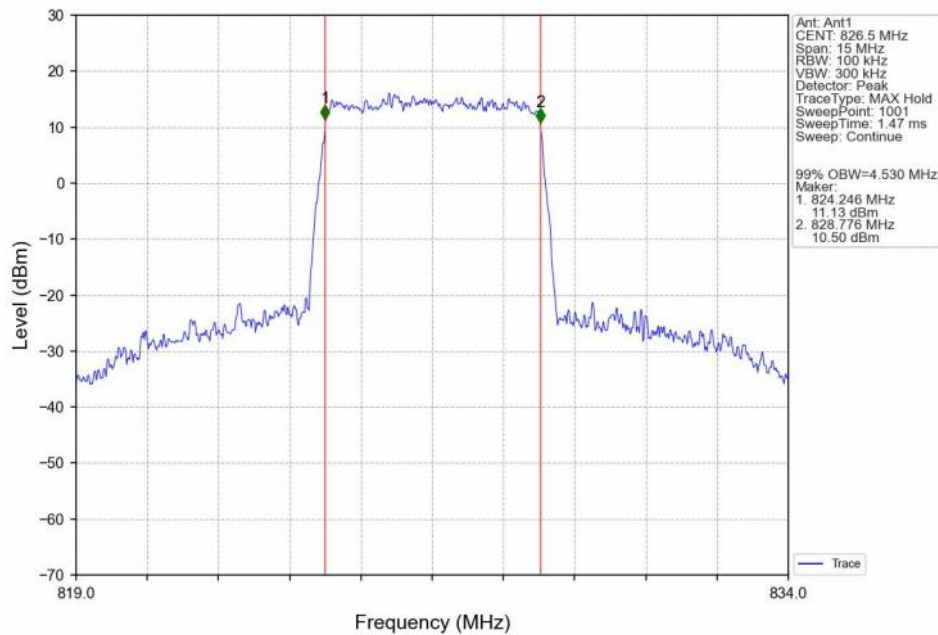
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



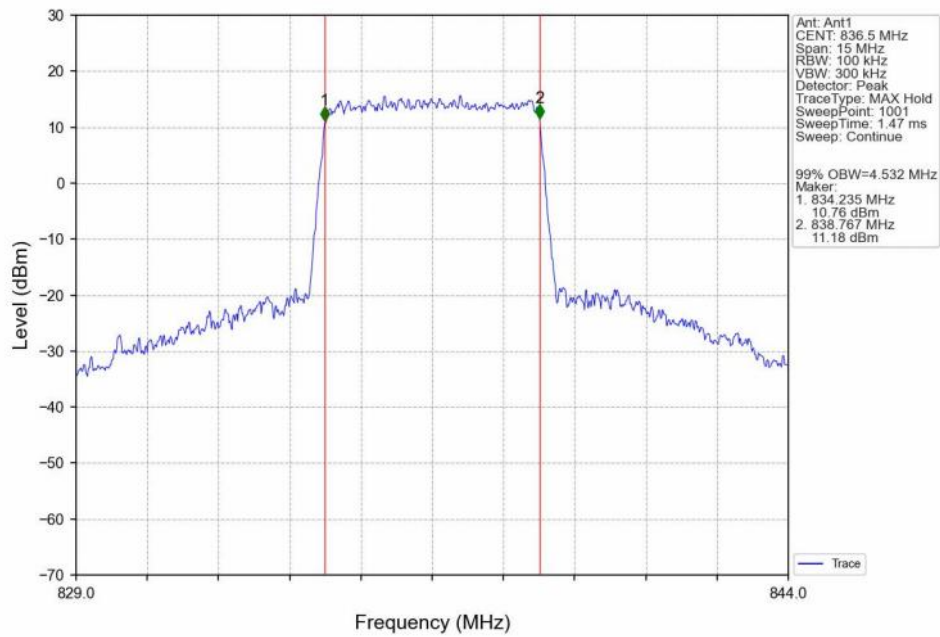
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



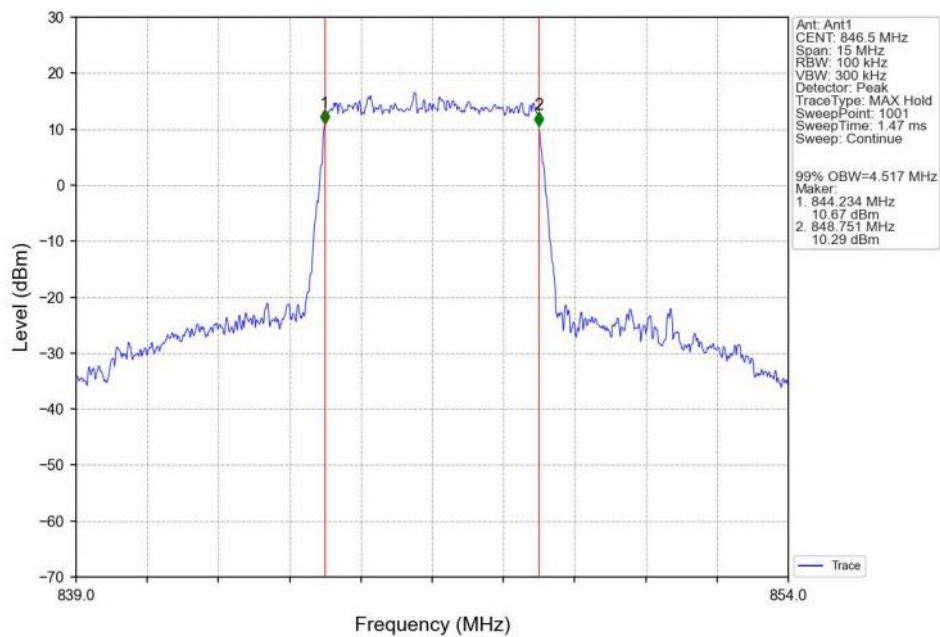
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



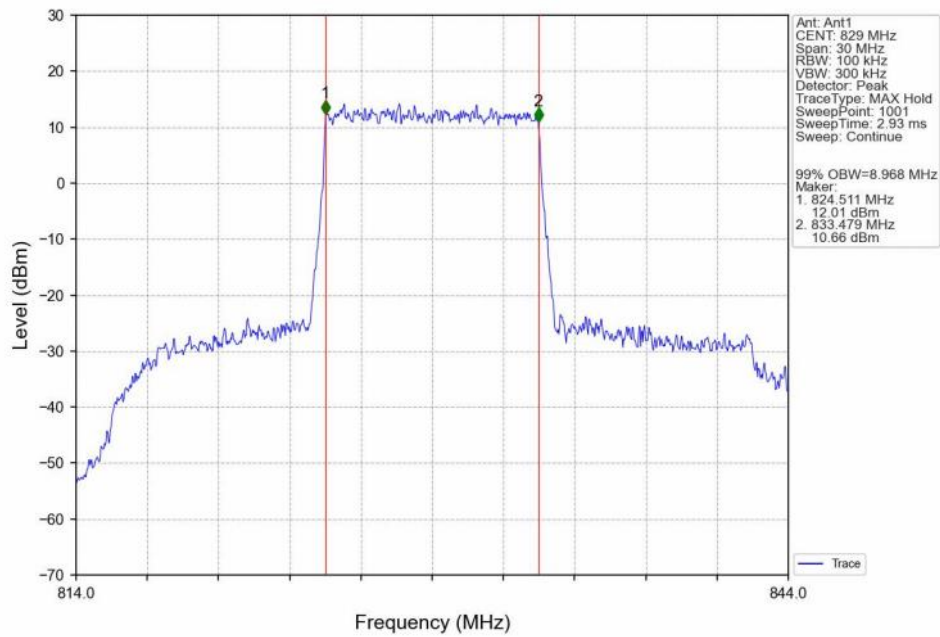
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



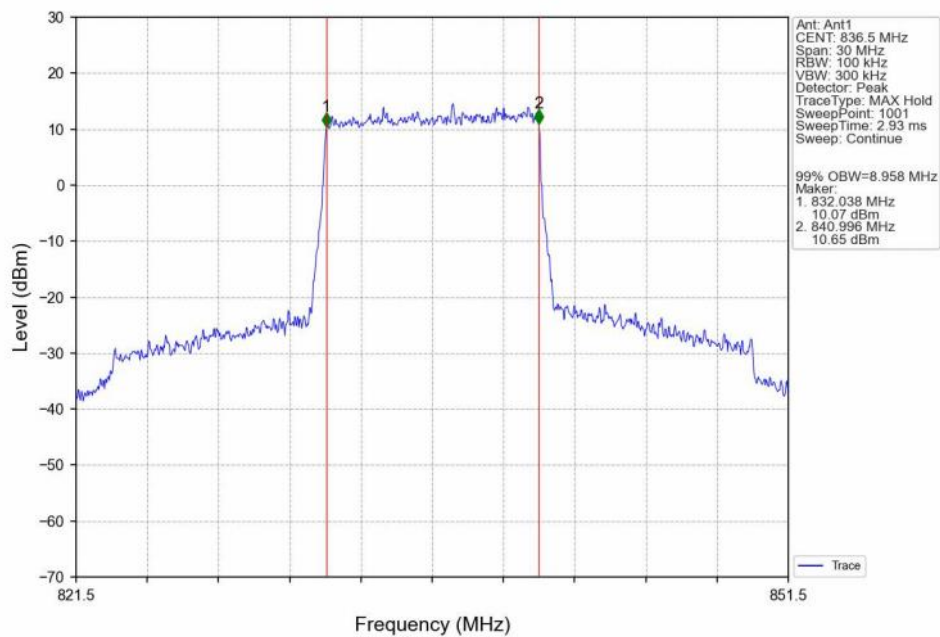
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



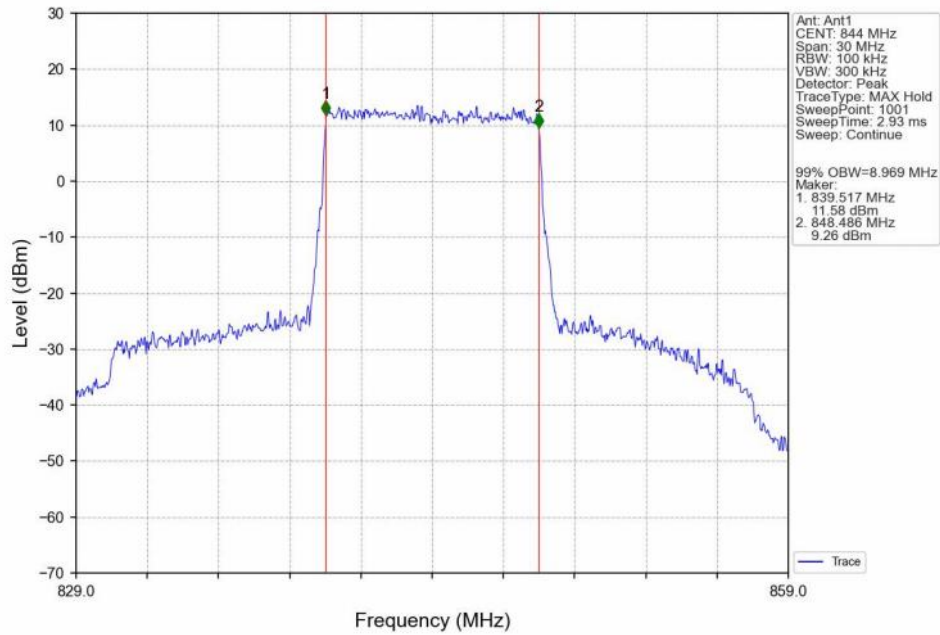
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



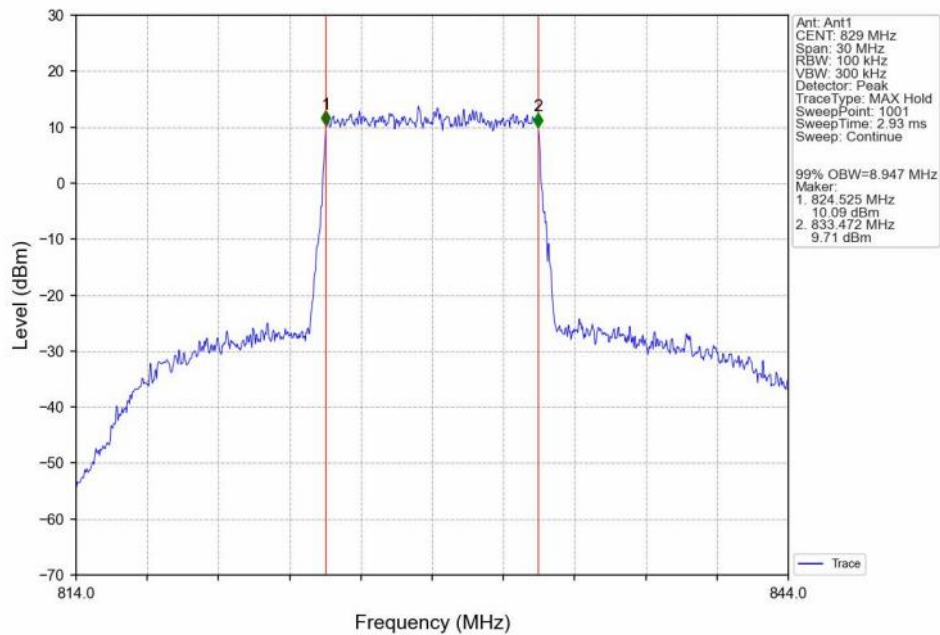
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



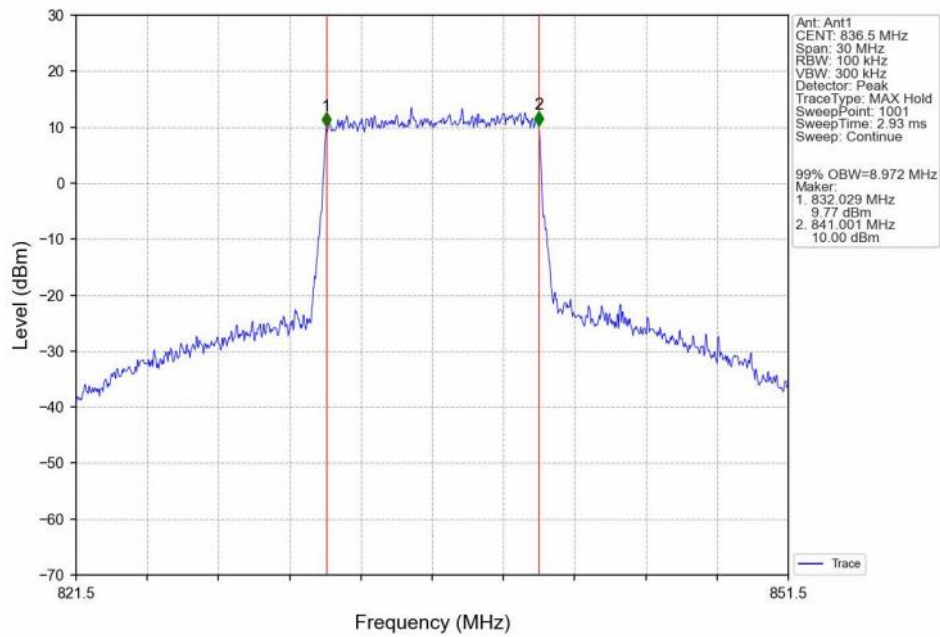
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



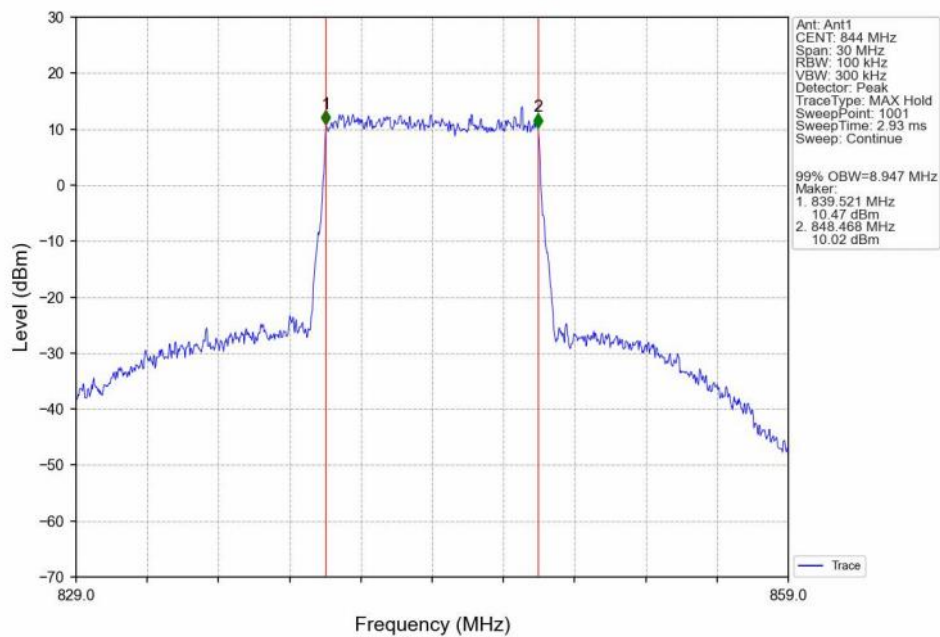
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



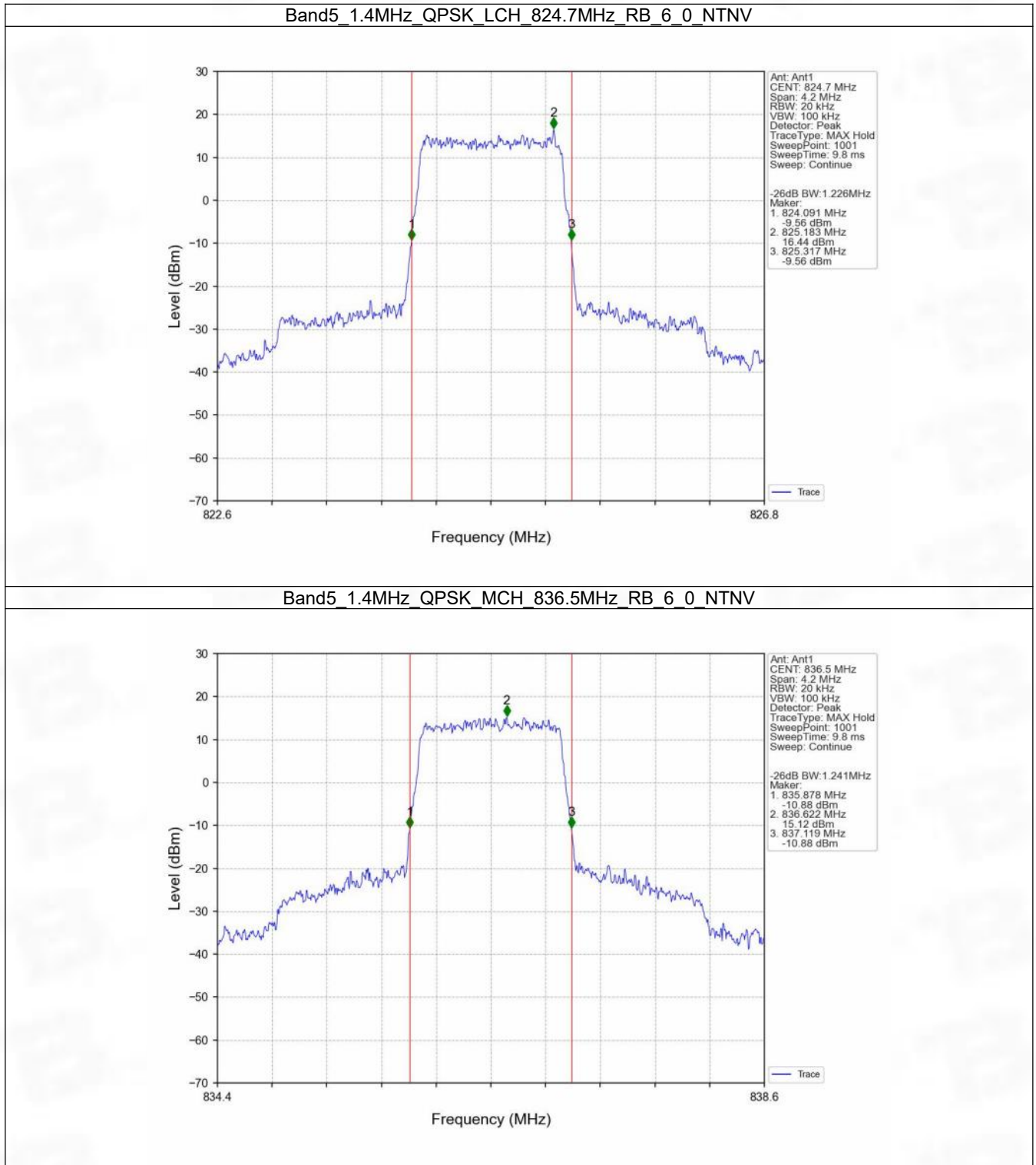
Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



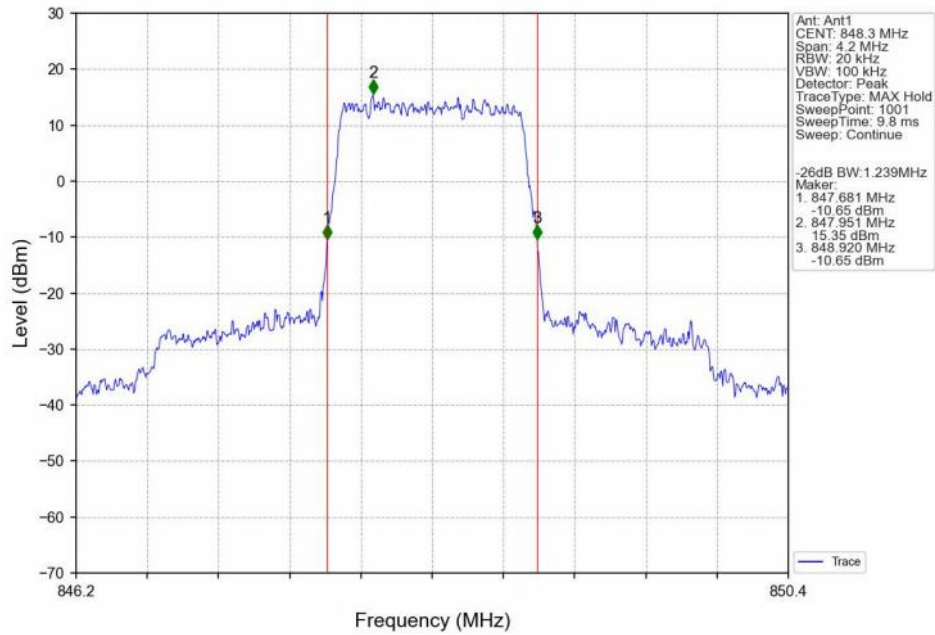
Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



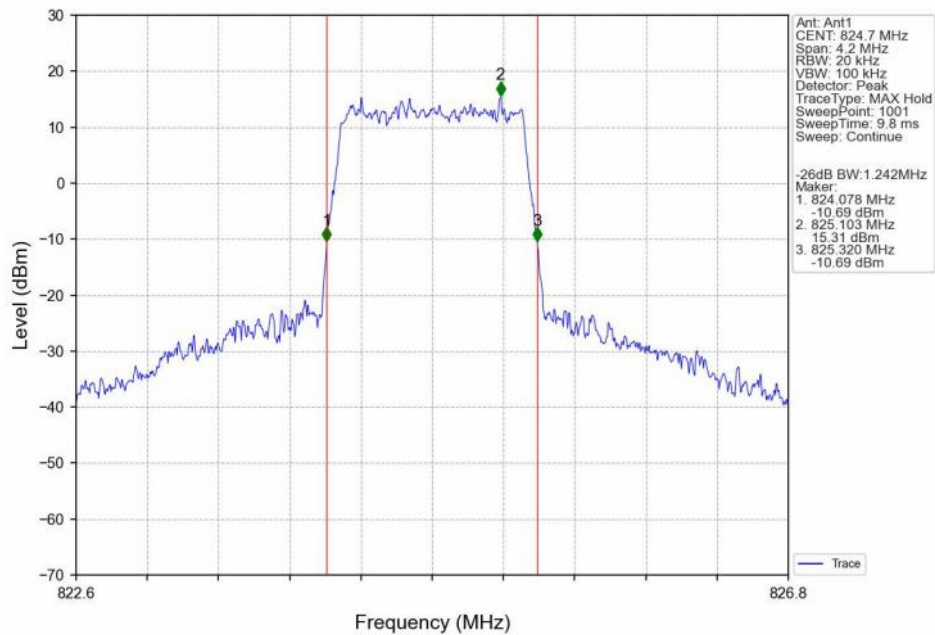
#### 4.2.2 Band5\_XDB



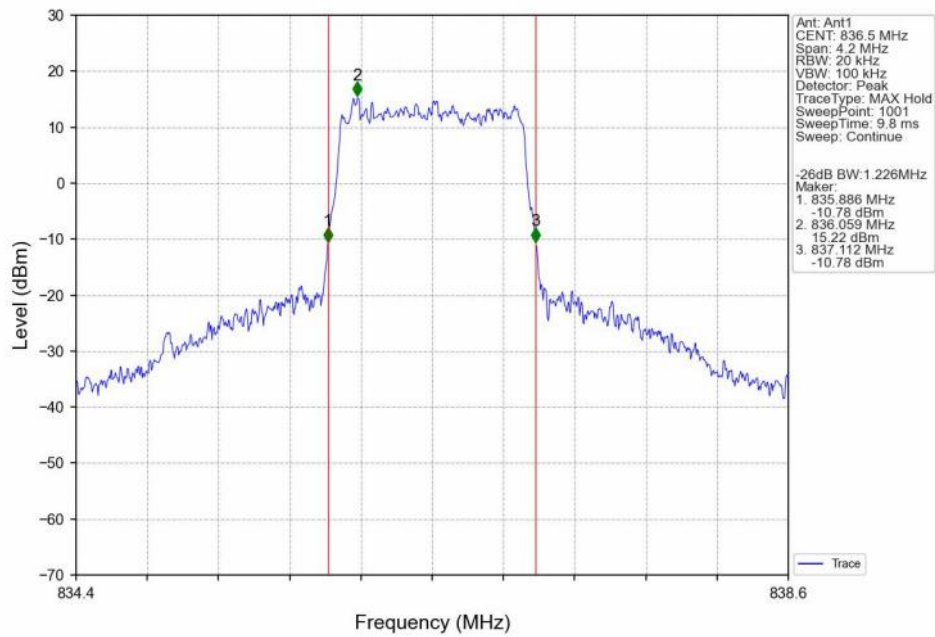
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



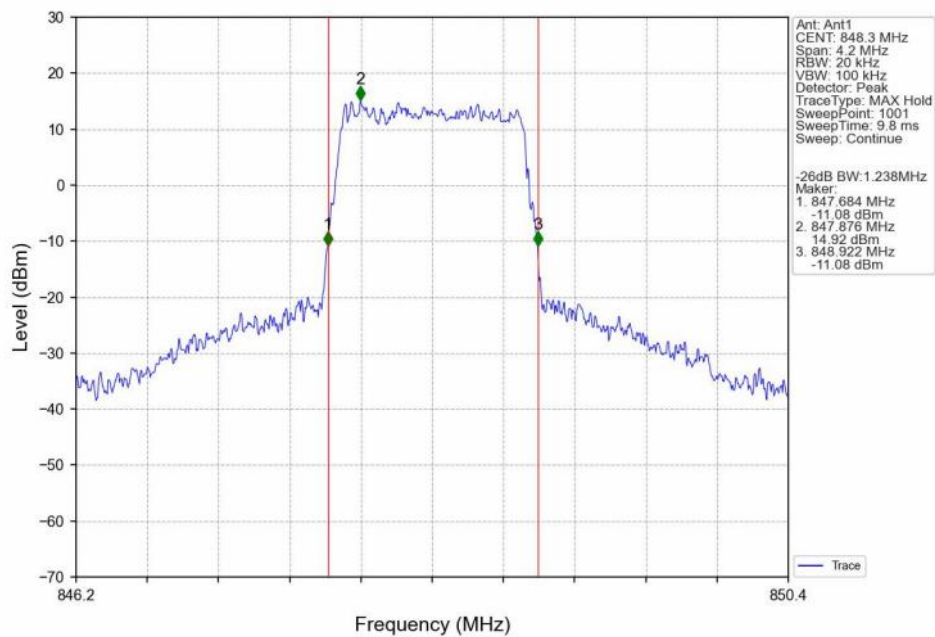
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



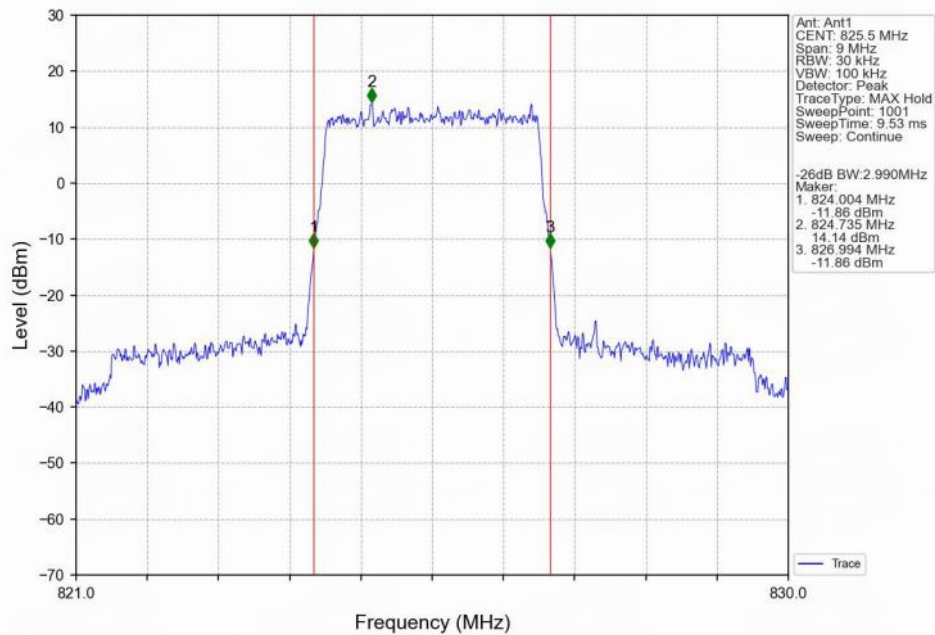
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



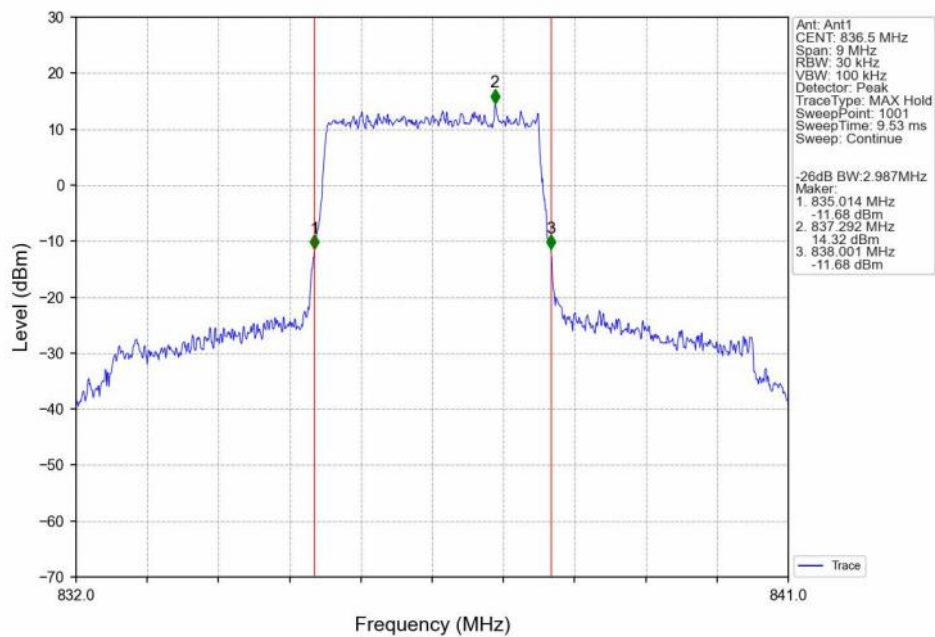
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



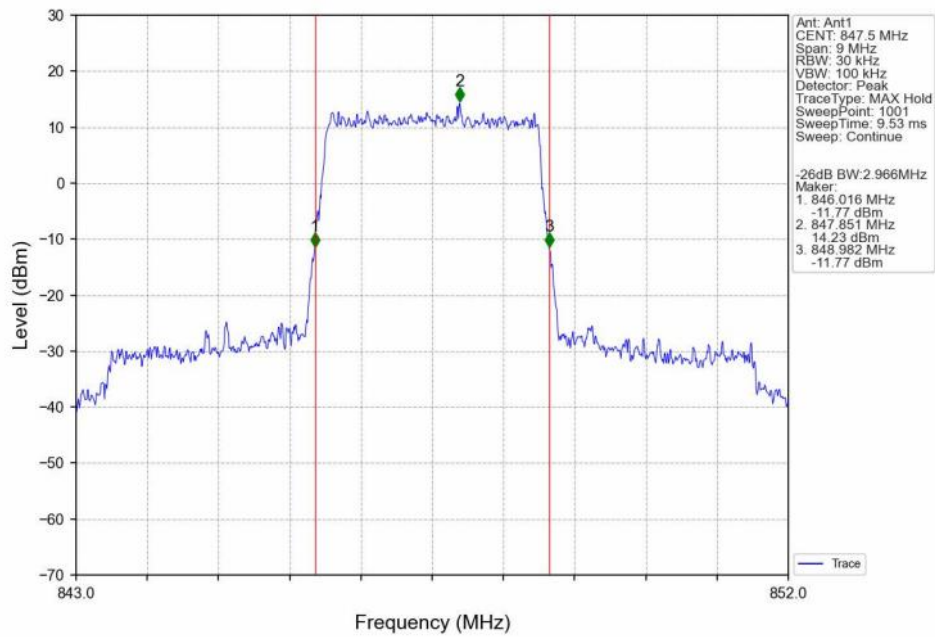
Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



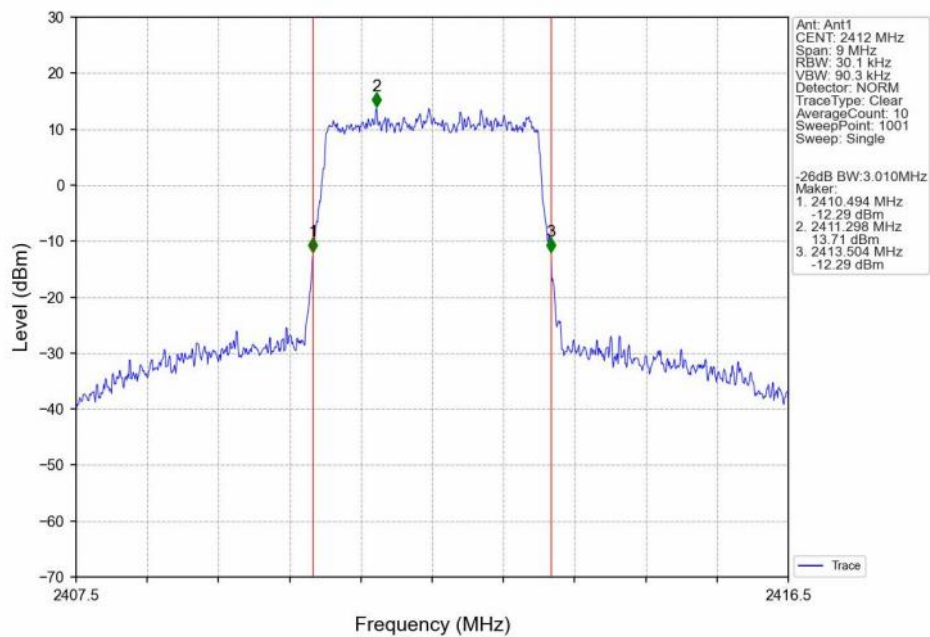
Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



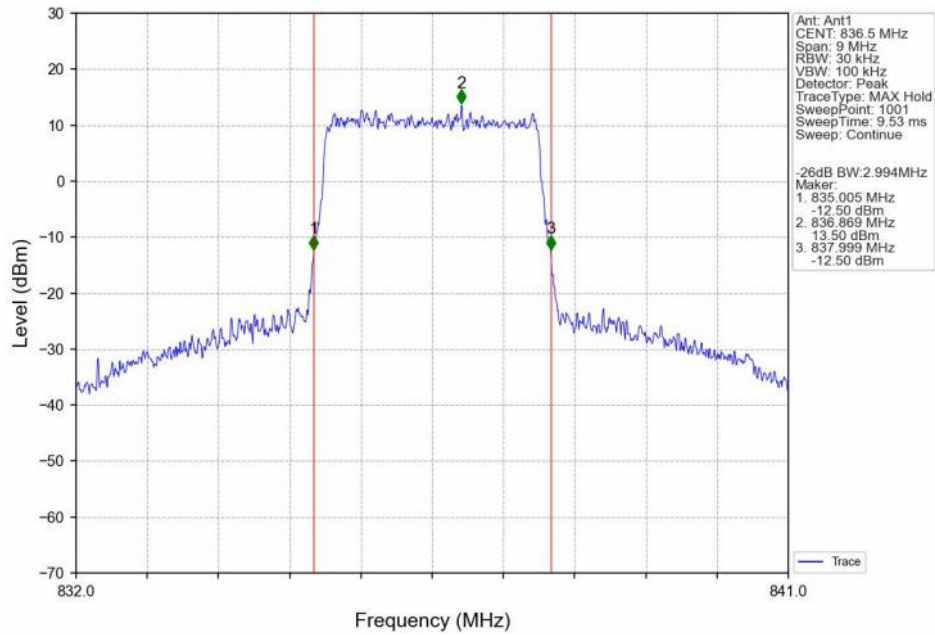
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



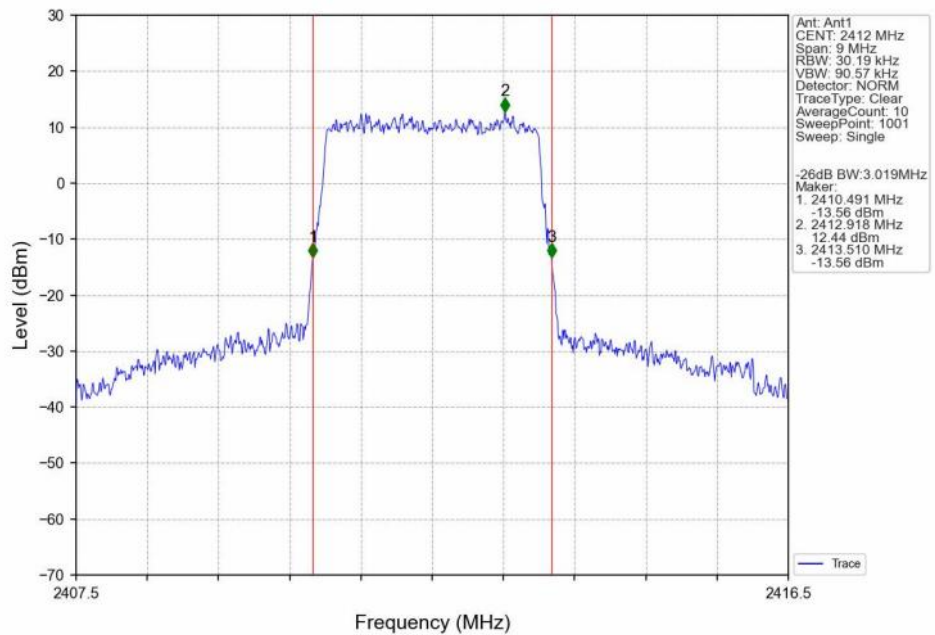
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



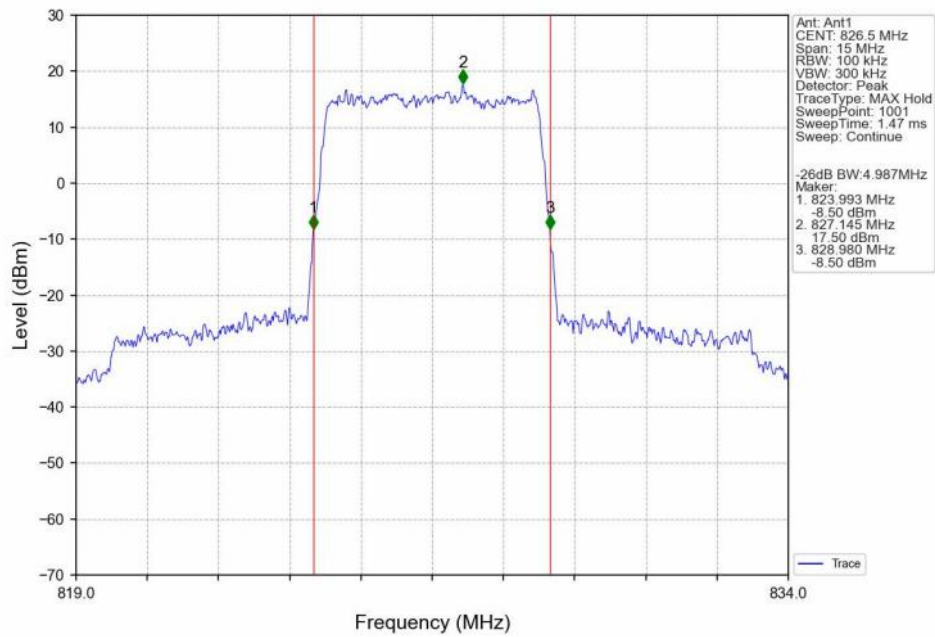
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



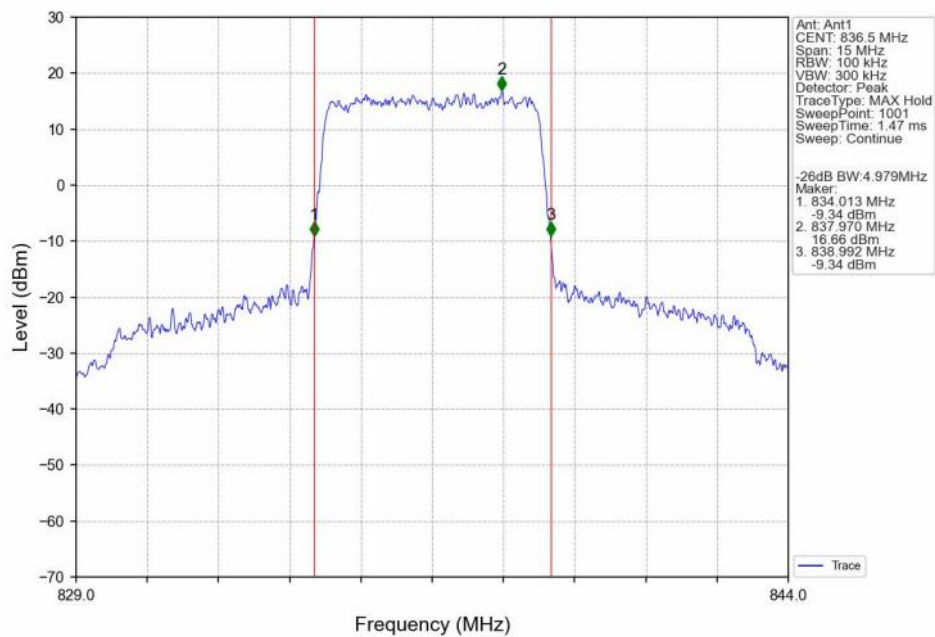
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



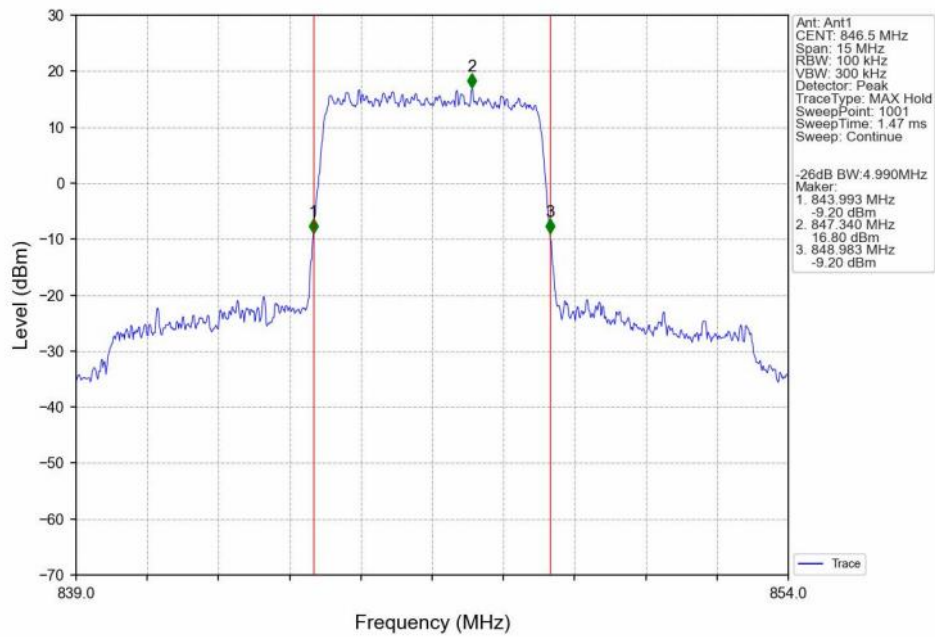
Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



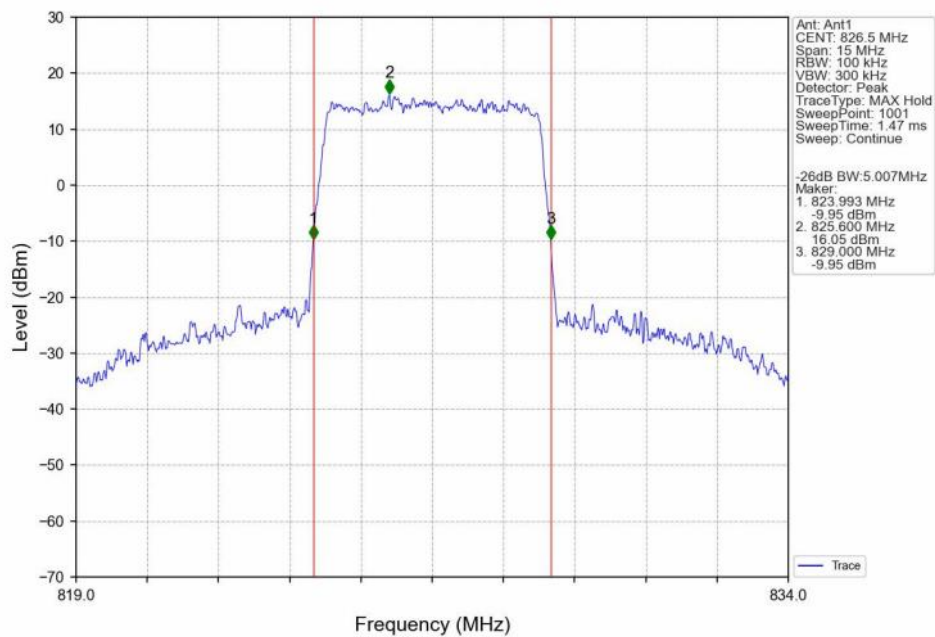
Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



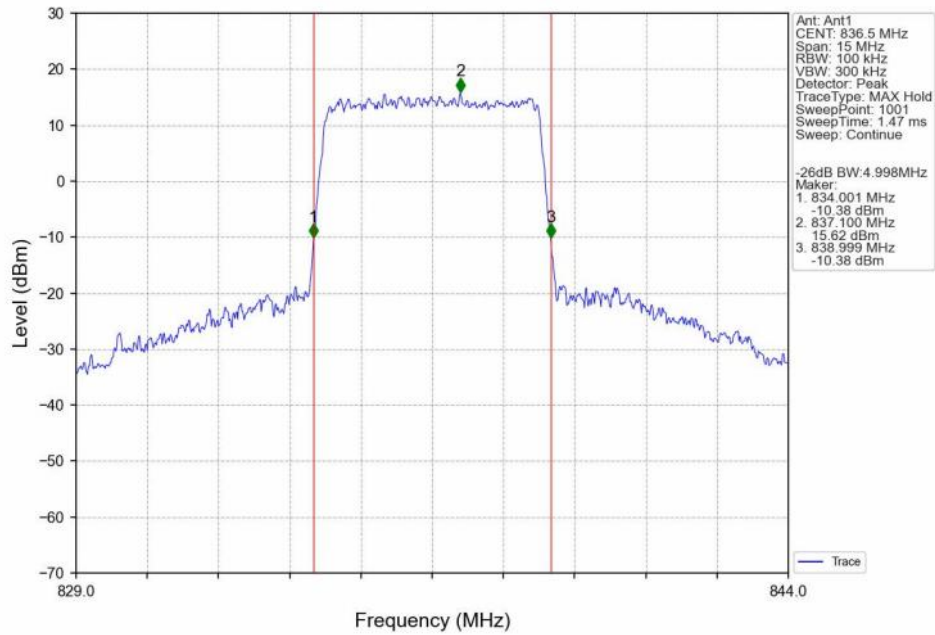
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



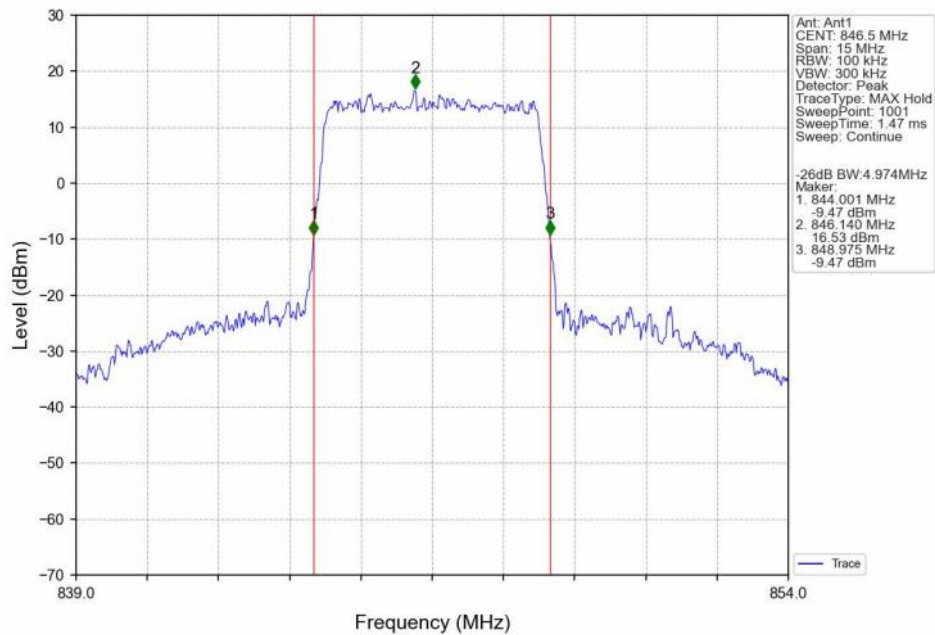
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



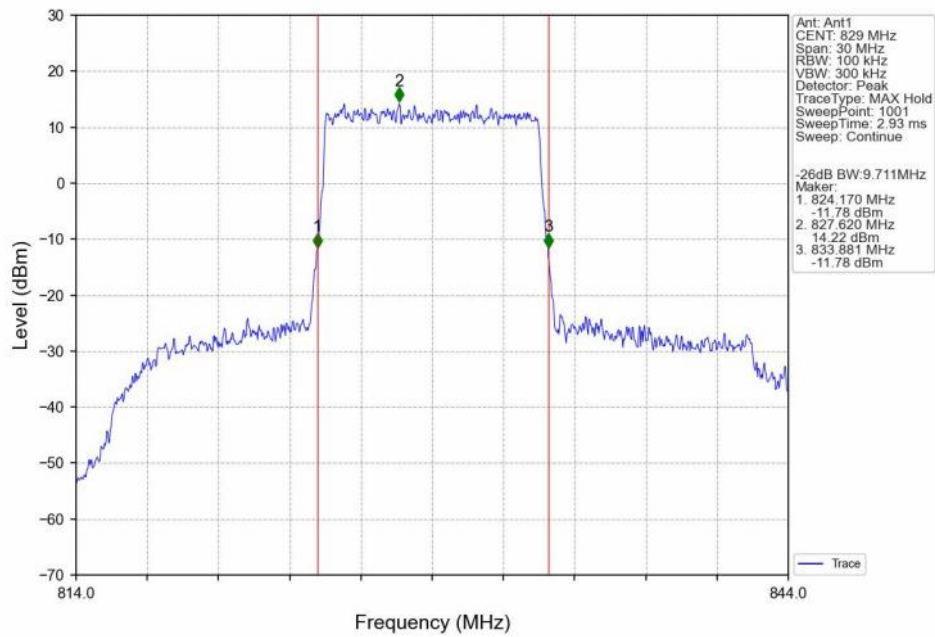
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



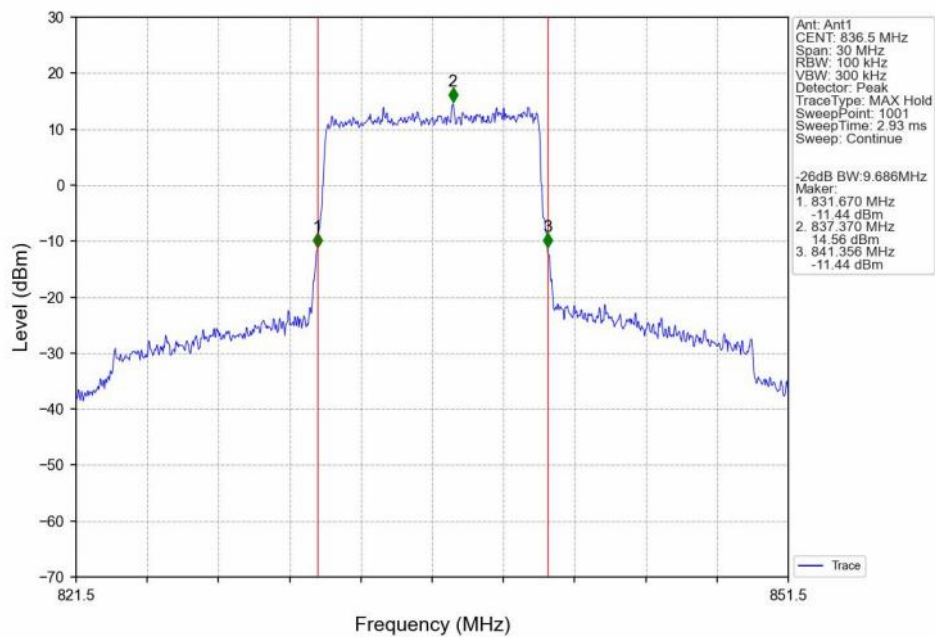
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



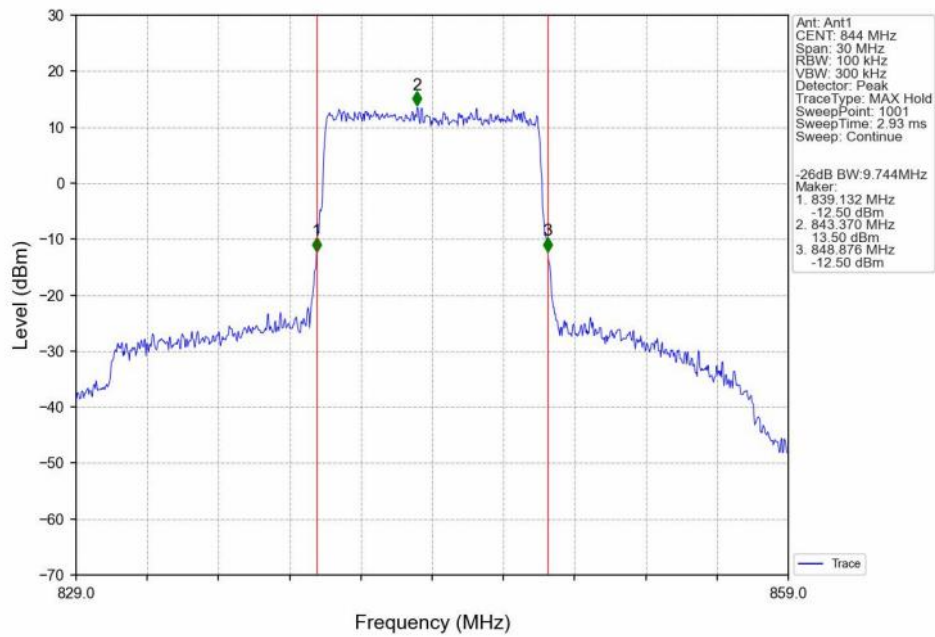
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



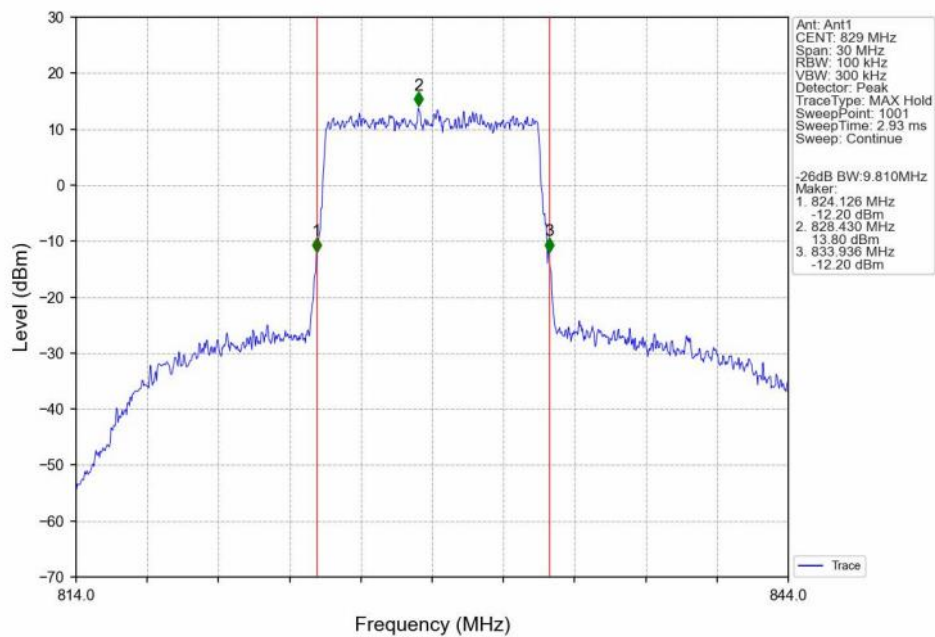
Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



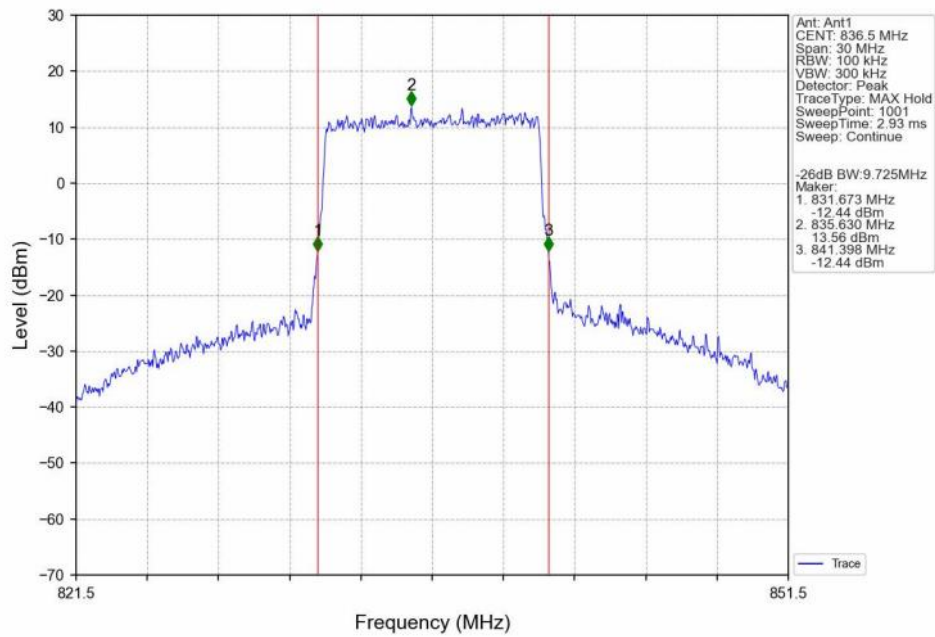
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



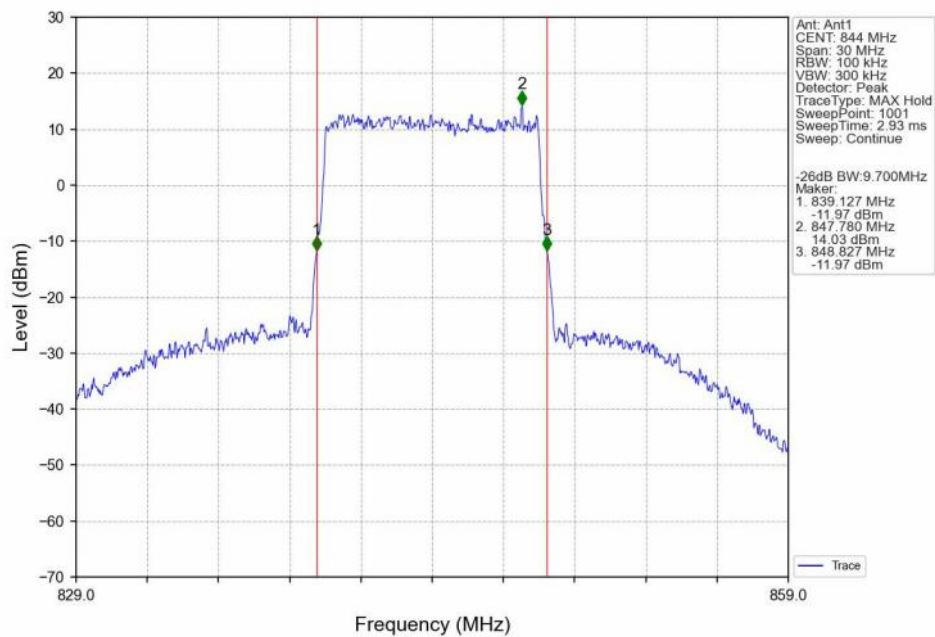
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



## 5. Peak-Average Ratio

### 5.1 Test Result

#### 5.1.1 B5\_1.4MHz

| Band: 5 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                         |           |         |
|------------------------------------|-----------------|---------------|--------|-------------------------|-----------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |           | Verdict |
|                                    |                 | Size          | Offset | Result                  | Limit     |         |
| QPSK                               | 824.7           | 6             | 0      | 5.03                    | $\leq 13$ | Pass    |
|                                    | 836.5           | 6             | 0      | 4.61                    | $\leq 13$ | Pass    |
|                                    | 848.3           | 6             | 0      | 4.87                    | $\leq 13$ | Pass    |
| 16QAM                              | 824.7           | 6             | 0      | 5.72                    | $\leq 13$ | Pass    |
|                                    | 836.5           | 6             | 0      | 5.44                    | $\leq 13$ | Pass    |
|                                    | 848.3           | 6             | 0      | 5.44                    | $\leq 13$ | Pass    |

#### 5.1.2 B5\_3MHz

| Band: 5 / Bandwidth: 3MHz / NTNV |                 |               |        |                         |           |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-----------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |           | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit     |         |
| QPSK                             | 825.5           | 15            | 0      | 5.20                    | $\leq 13$ | Pass    |
|                                  | 836.5           | 15            | 0      | 4.80                    | $\leq 13$ | Pass    |
|                                  | 847.5           | 15            | 0      | 5.02                    | $\leq 13$ | Pass    |
| 16QAM                            | 825.5           | 15            | 0      | 6.01                    | $\leq 13$ | Pass    |
|                                  | 836.5           | 15            | 0      | 5.57                    | $\leq 13$ | Pass    |
|                                  | 847.5           | 15            | 0      | 5.87                    | $\leq 13$ | Pass    |

#### 5.1.3 B5\_5MHz

| Band: 5 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |           |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-----------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |           | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit     |         |
| QPSK                             | 826.5           | 25            | 0      | 5.31                    | $\leq 13$ | Pass    |
|                                  | 836.5           | 25            | 0      | 5.05                    | $\leq 13$ | Pass    |
|                                  | 846.5           | 25            | 0      | 5.34                    | $\leq 13$ | Pass    |
| 16QAM                            | 826.5           | 25            | 0      | 6.06                    | $\leq 13$ | Pass    |
|                                  | 836.5           | 25            | 0      | 5.73                    | $\leq 13$ | Pass    |
|                                  | 846.5           | 25            | 0      | 5.97                    | $\leq 13$ | Pass    |

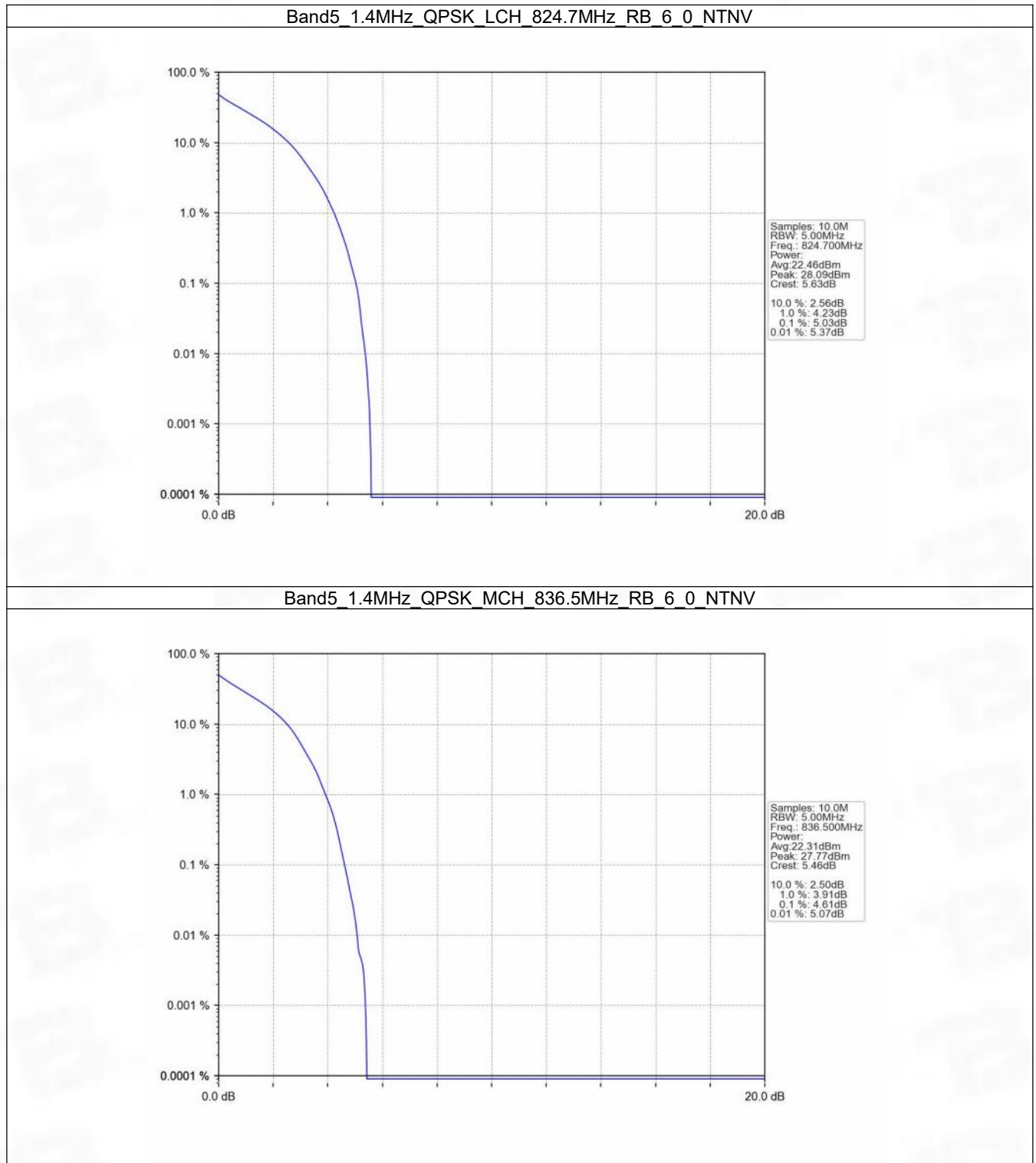
#### 5.1.4 B5\_10MHz

| Band: 5 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |           |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-----------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |           | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit     |         |
| QPSK                              | 829             | 50            | 0      | 5.33                    | $\leq 13$ | Pass    |
|                                   | 836.5           | 50            | 0      | 5.15                    | $\leq 13$ | Pass    |
|                                   | 844             | 50            | 0      | 5.29                    | $\leq 13$ | Pass    |
| 16QAM                             | 829             | 50            | 0      | 6.07                    | $\leq 13$ | Pass    |
|                                   | 836.5           | 50            | 0      | 5.89                    | $\leq 13$ | Pass    |

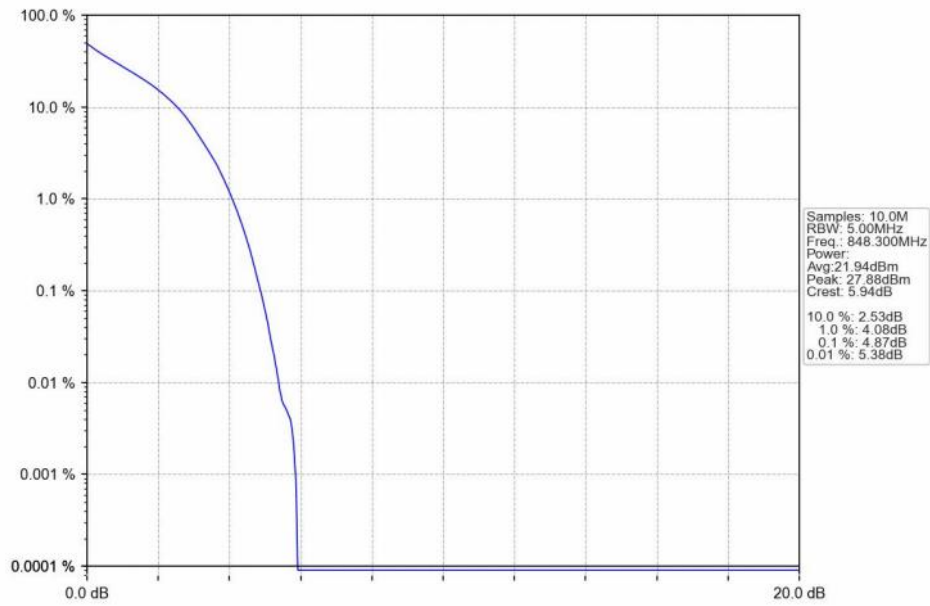
|  |     |    |   |      |      |      |
|--|-----|----|---|------|------|------|
|  | 844 | 50 | 0 | 5.97 | <=13 | Pass |
|--|-----|----|---|------|------|------|

## 5.2 Test Graph

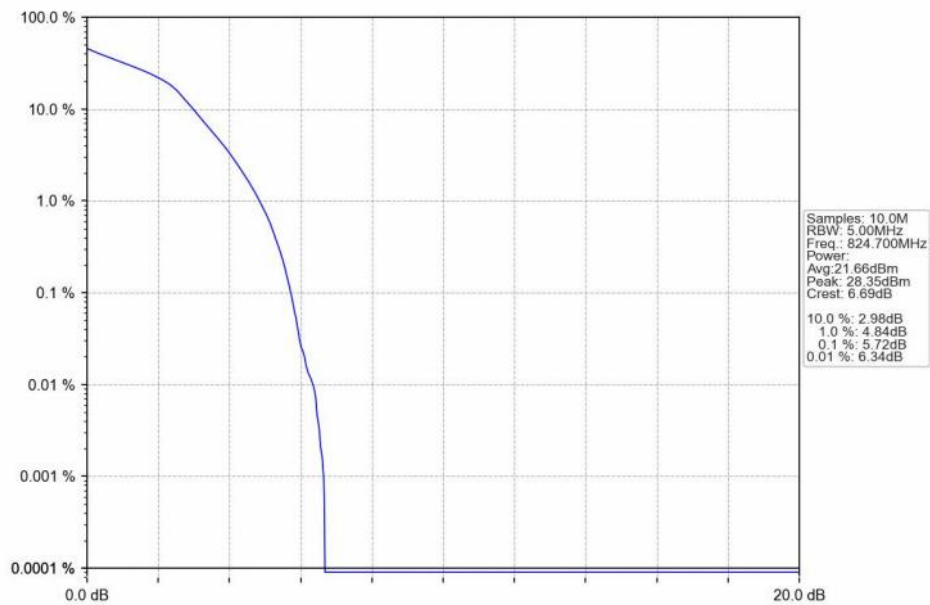
### 5.2.1 B5\_1.4MHz



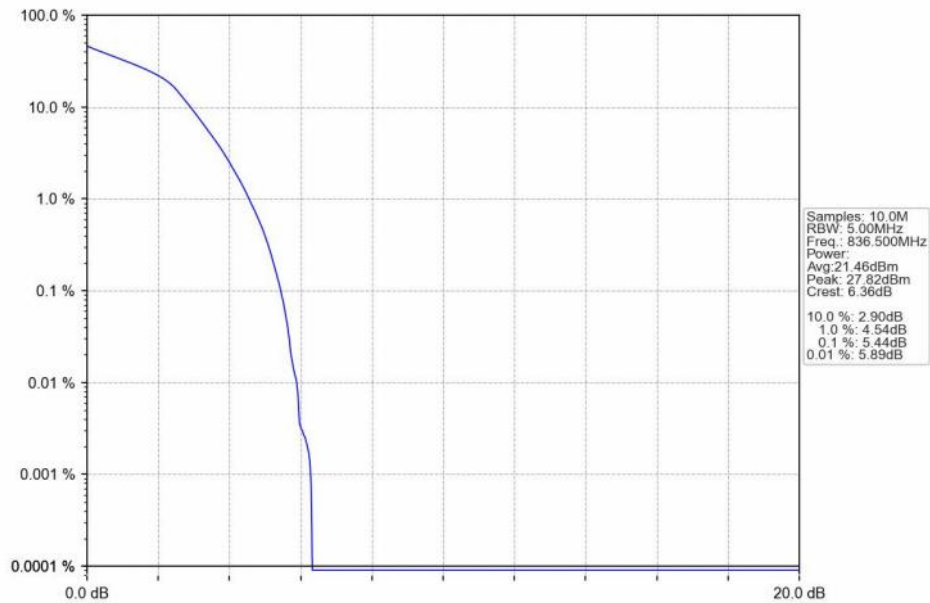
Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



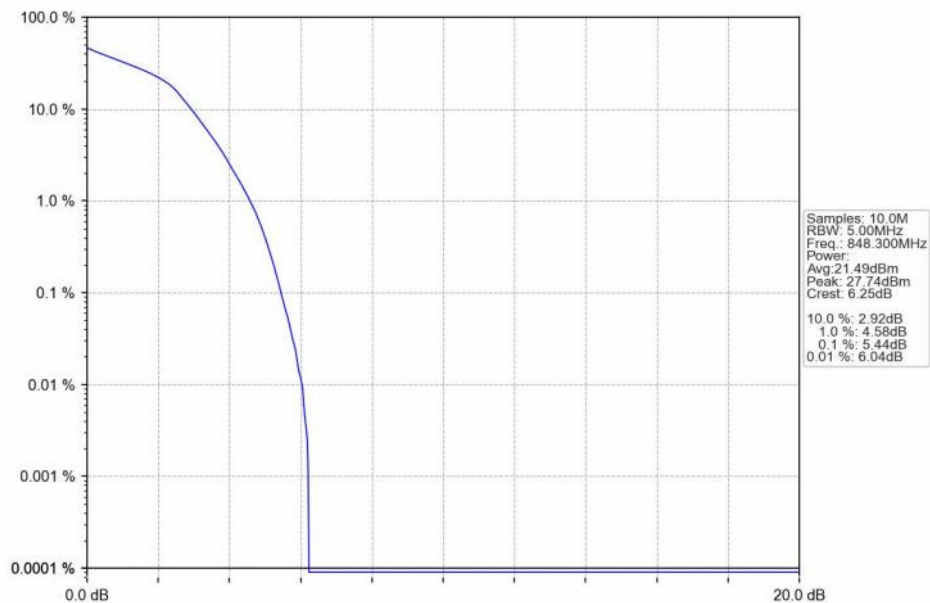
Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



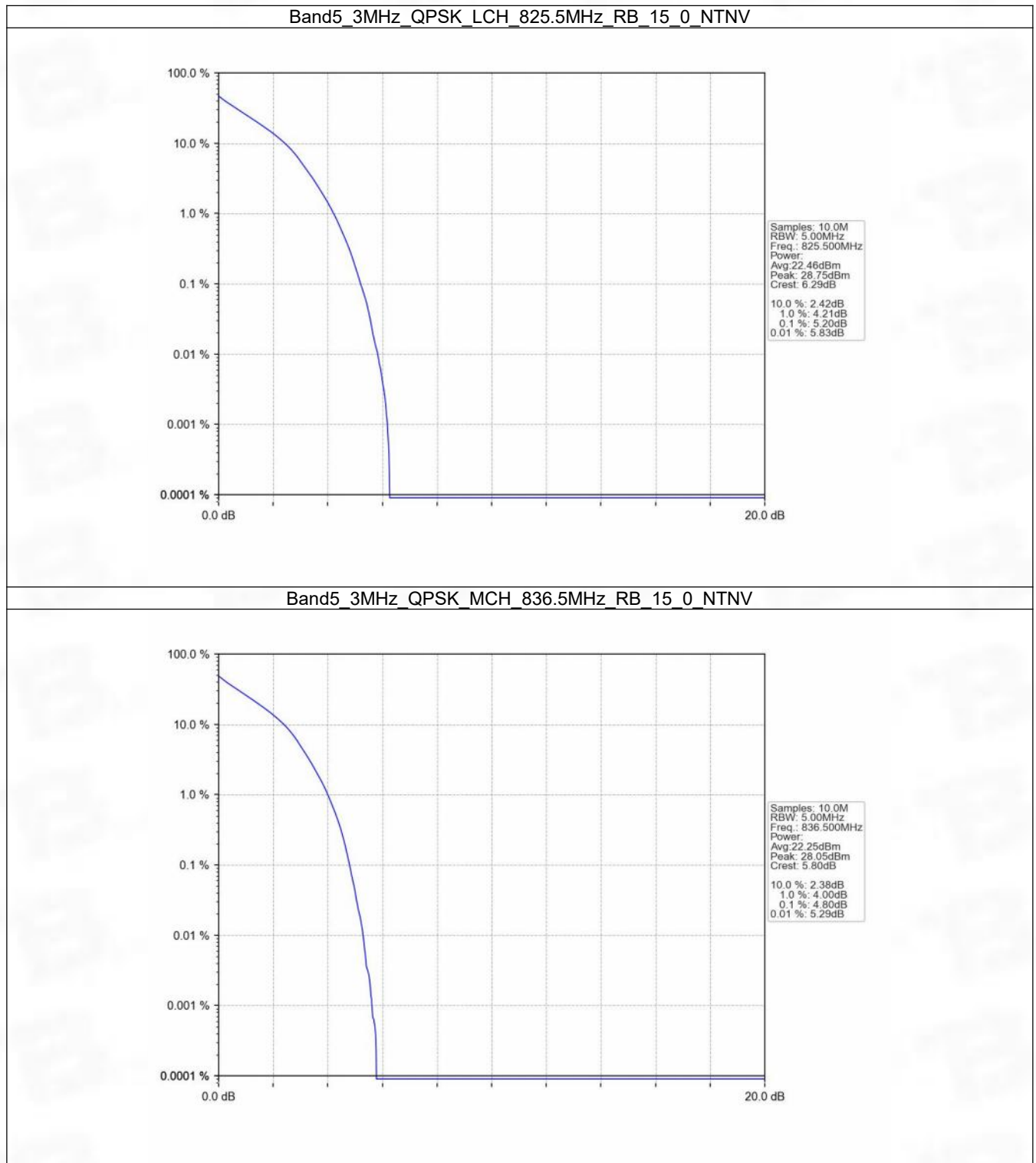
Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



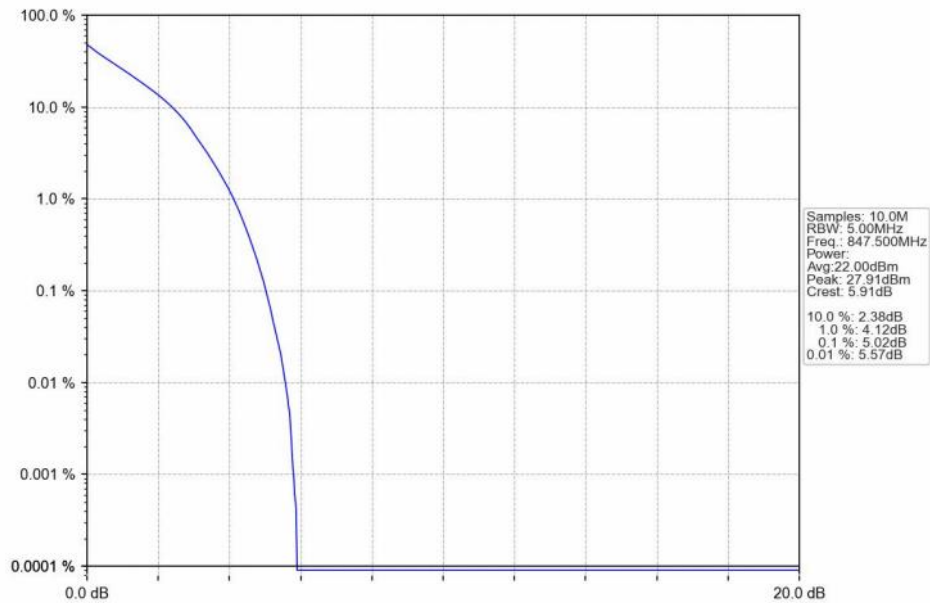
Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



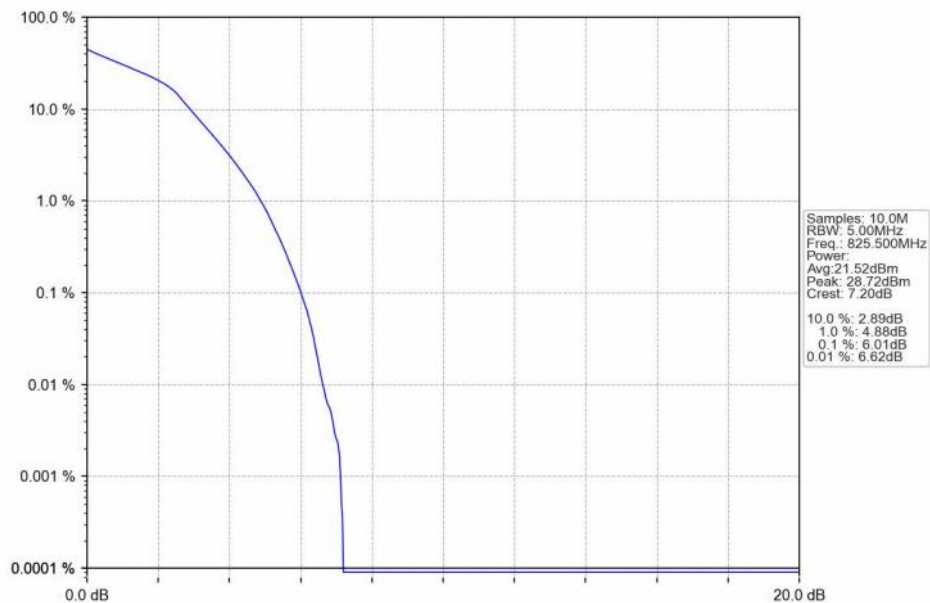
### 5.2.2 B5\_3MHz



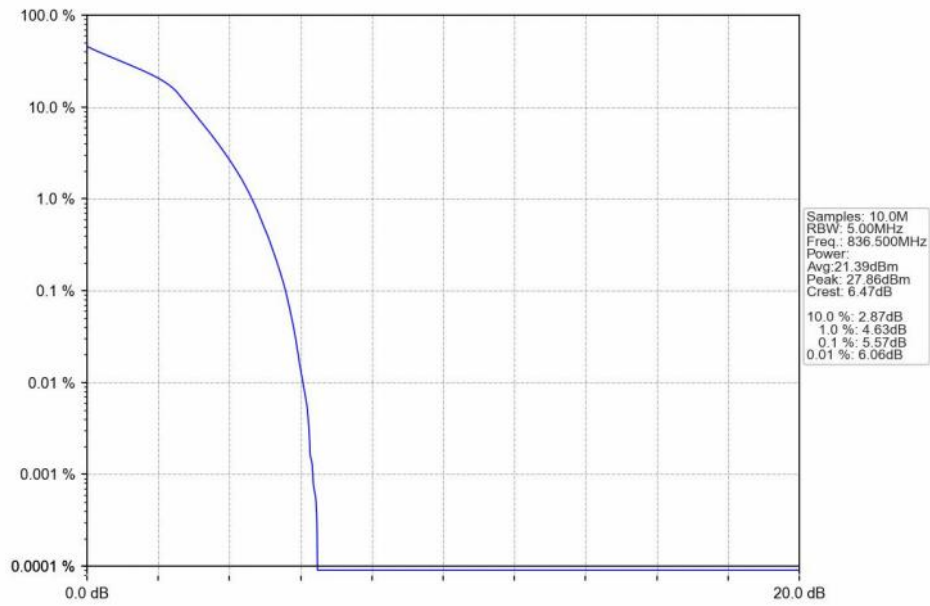
Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



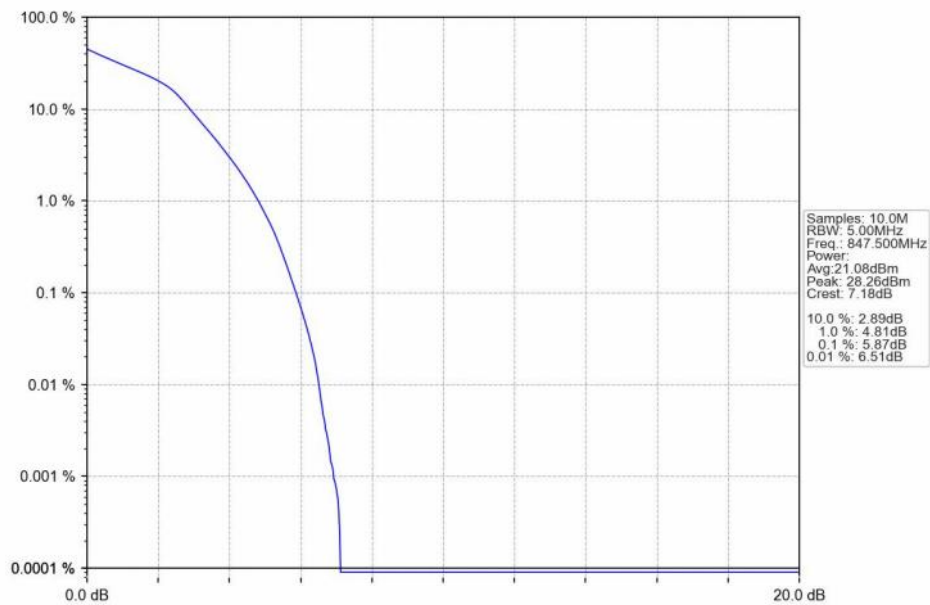
Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



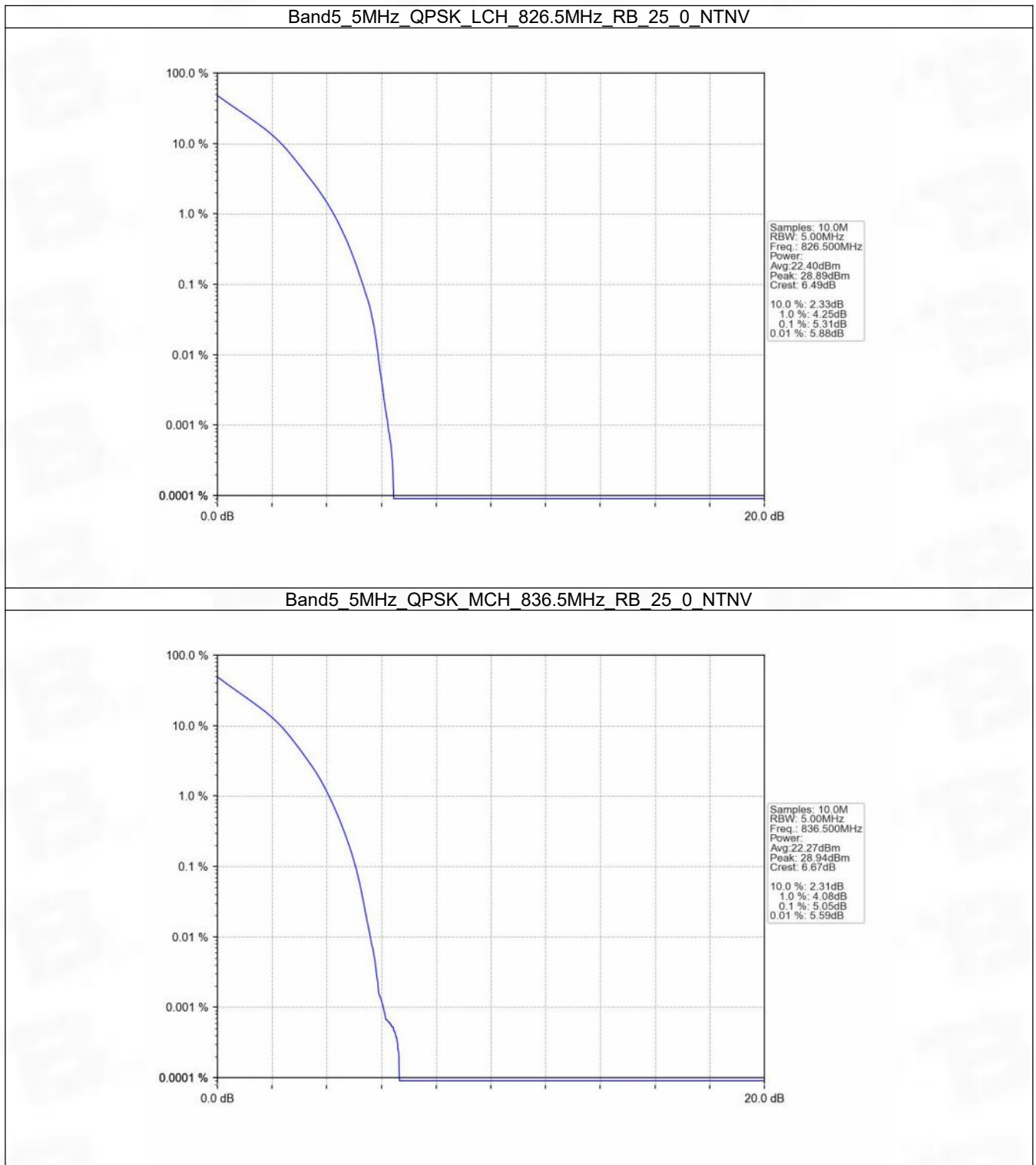
Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



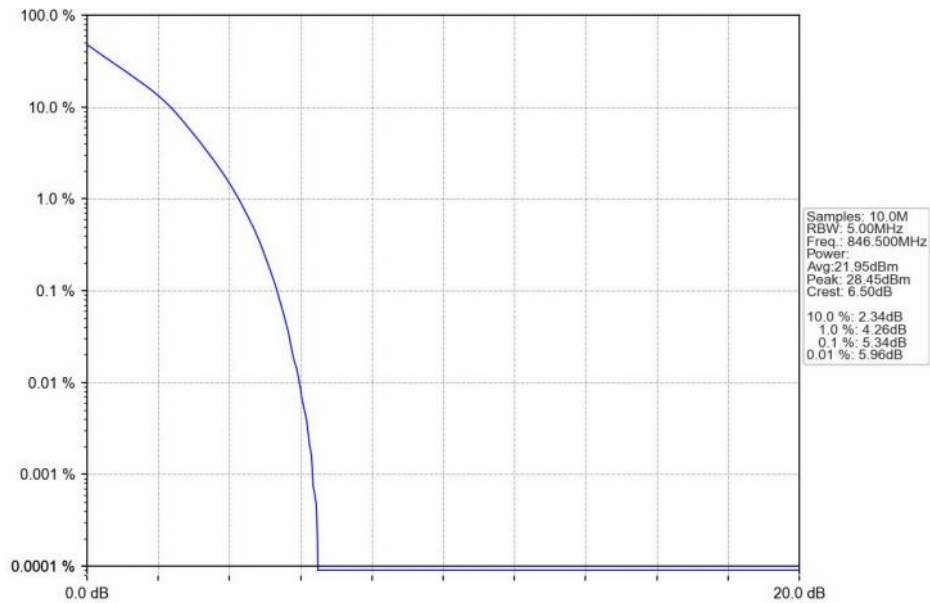
Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



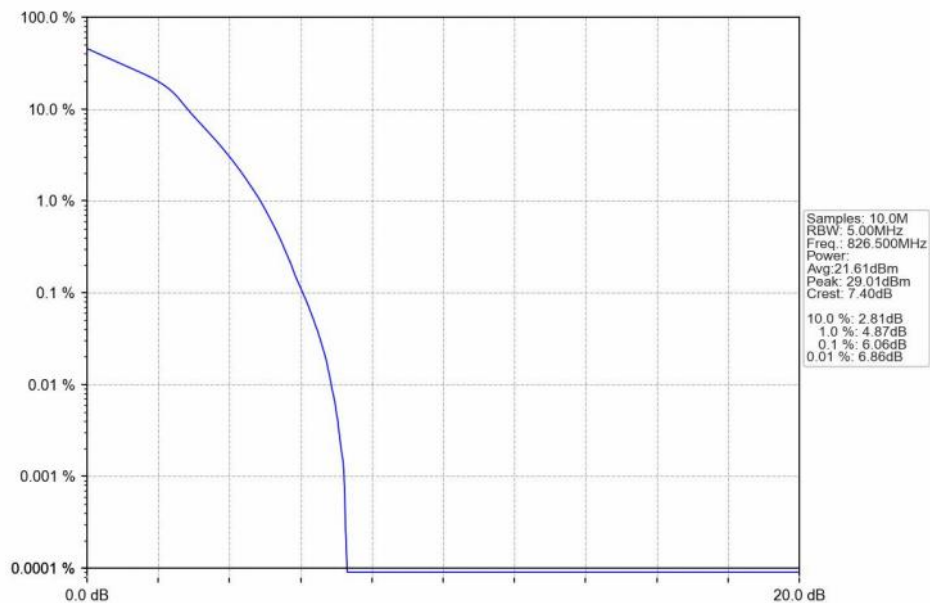
### 5.2.3 B5\_5MHz



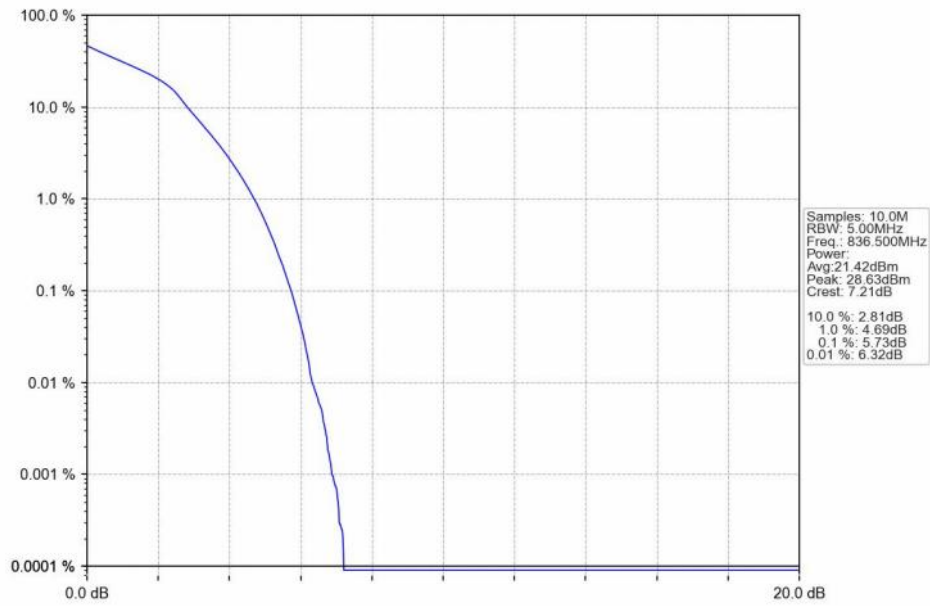
Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



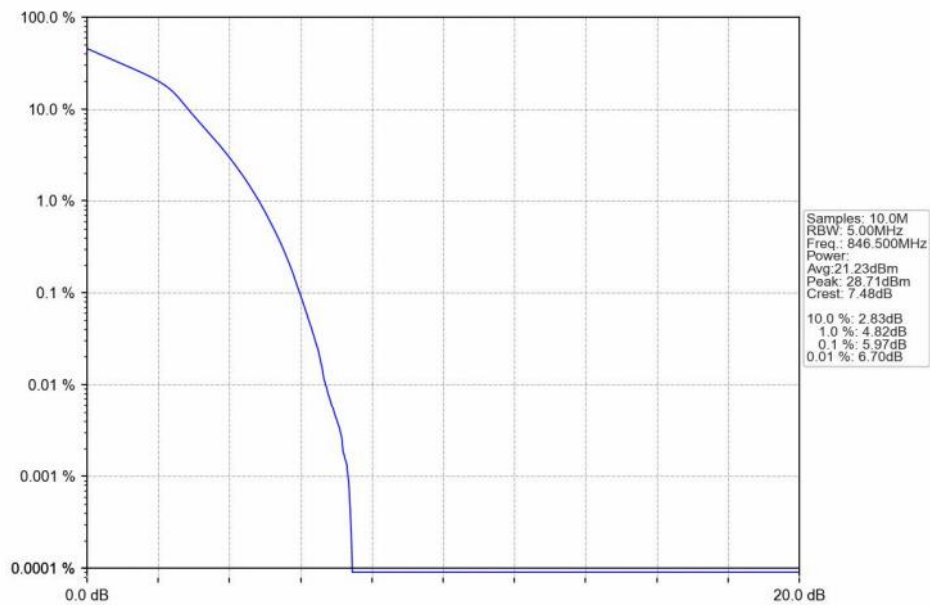
Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



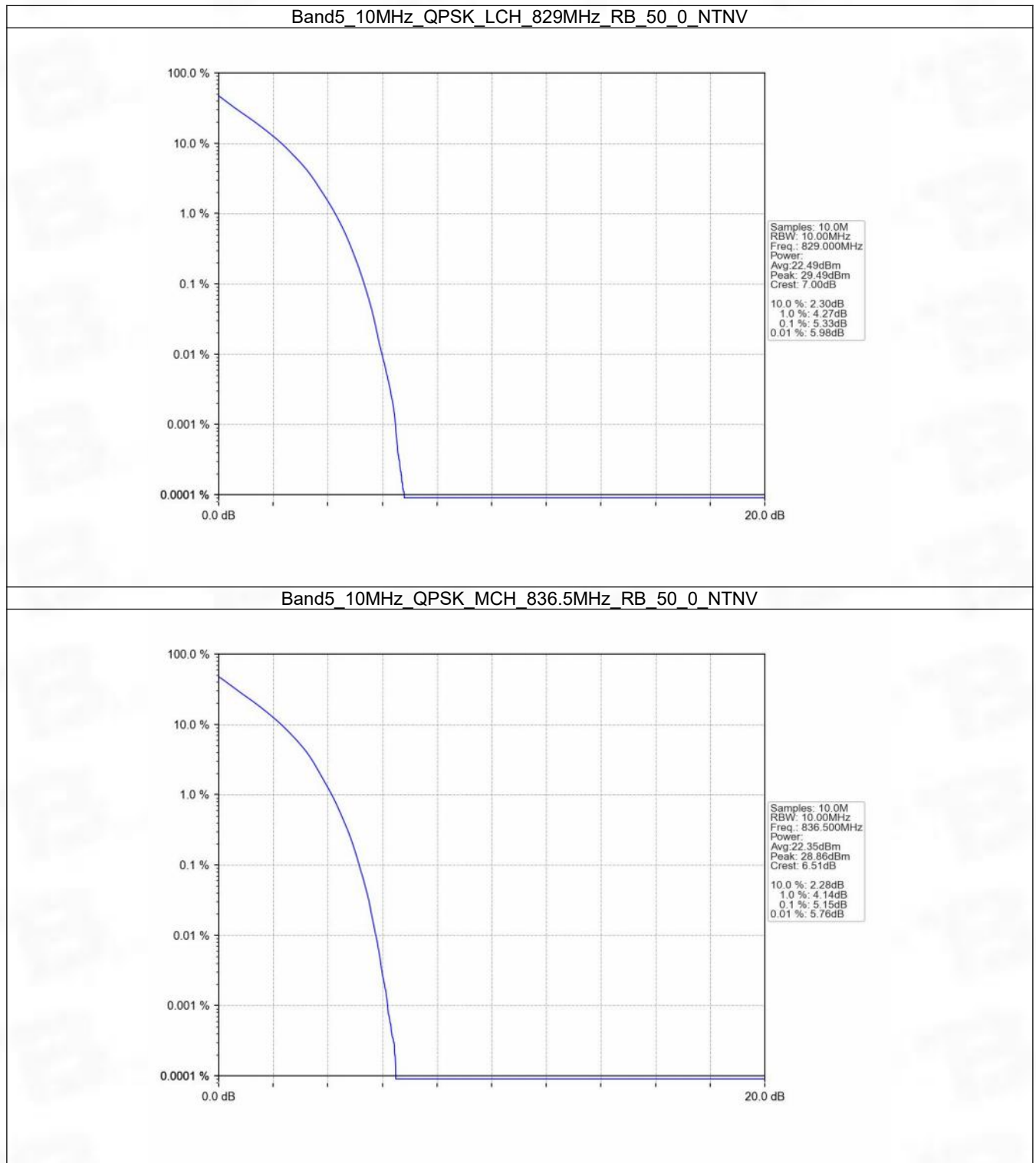
Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



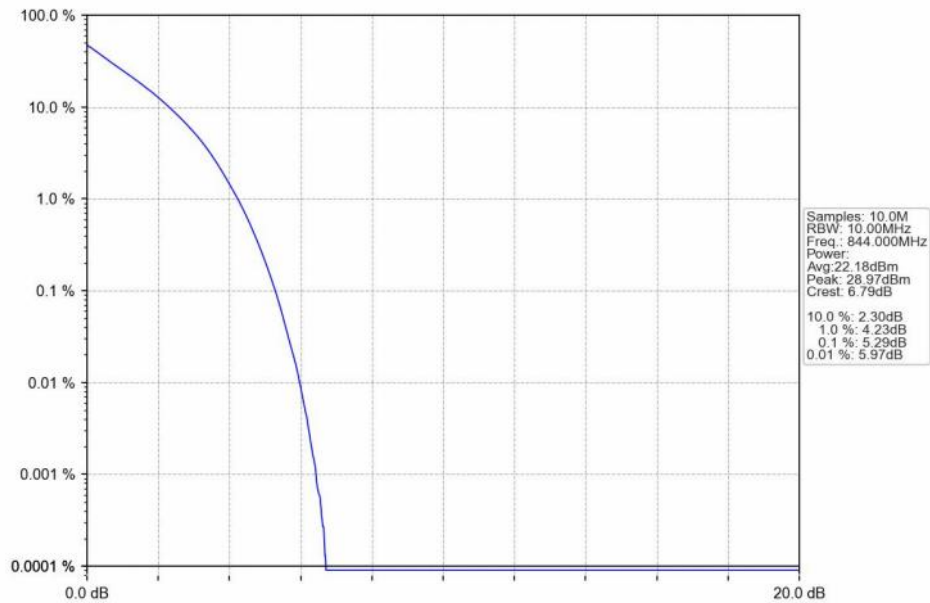
Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



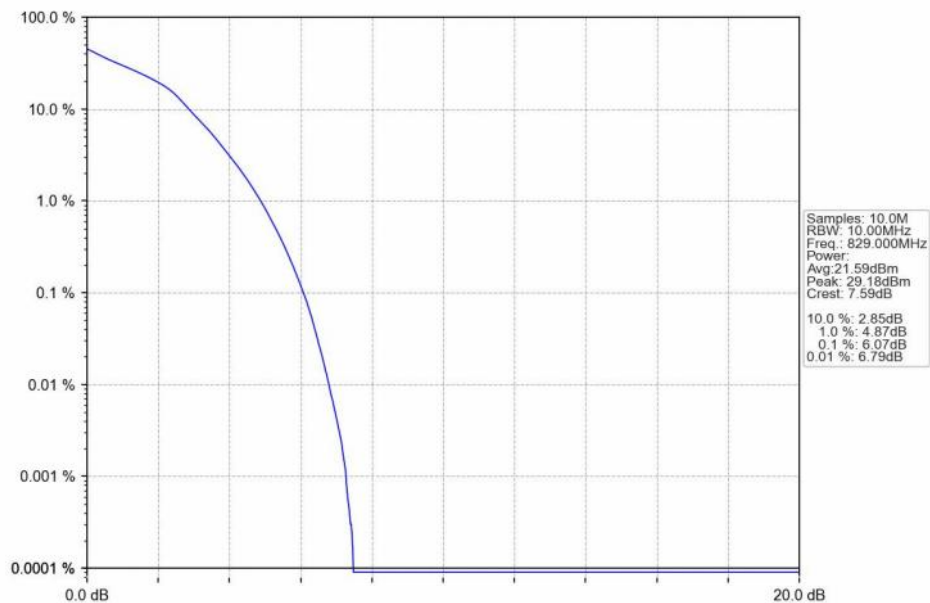
### 5.2.4 B5\_10MHz



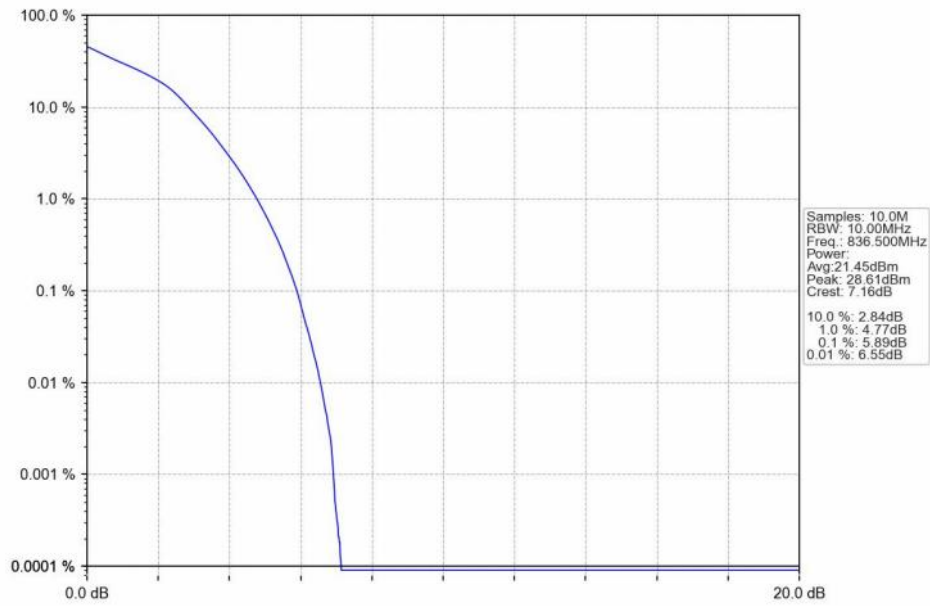
Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



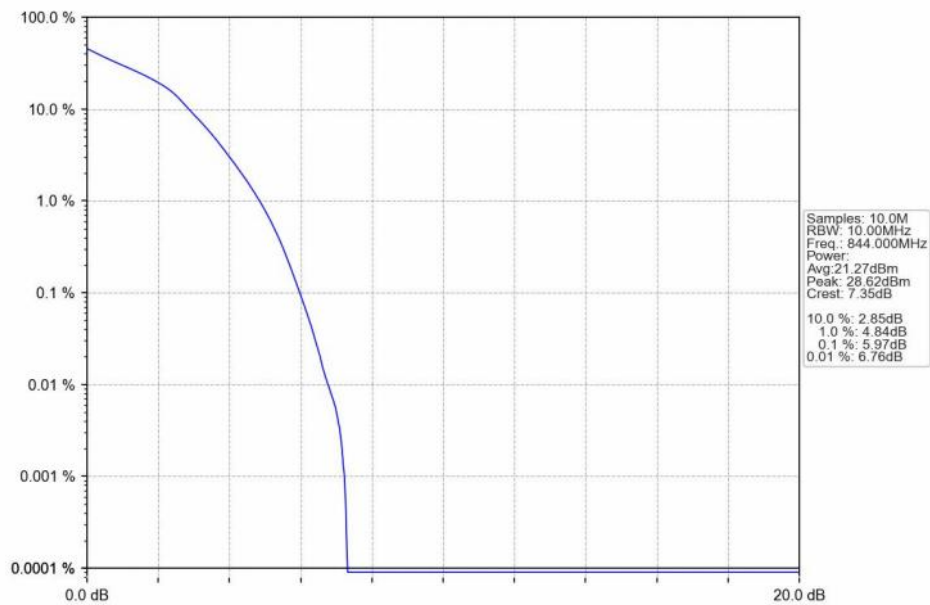
Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



## 6. Spurious Emission

### 6.1 Test Result

#### 6.1.1 B5\_1.4MHz

| Band: 5 / Bandwidth: 1.4MHz / NTNV |                 |               |        |                     |       |
|------------------------------------|-----------------|---------------|--------|---------------------|-------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       |
|                                    |                 | Size          | Offset | Result              | Limit |
| QPSK                               | 824.7           | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 | 6             | 0      | Refer To Test Graph | Pass  |
|                                    | 836.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 |               | 5      | Refer To Test Graph | Pass  |
|                                    |                 | 6             | 0      | Refer To Test Graph | Pass  |
| 16QAM                              | 824.7           | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 | 6             | 0      | Refer To Test Graph | Pass  |
|                                    | 836.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 |               | 5      | Refer To Test Graph | Pass  |
|                                    |                 | 6             | 0      | Refer To Test Graph | Pass  |

#### 6.1.2 B5\_3MHz

| Band: 5 / Bandwidth: 3MHz / NTNV |                 |               |        |                     |       |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       |
|                                  |                 | Size          | Offset | Result              | Limit |
| QPSK                             | 825.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 15            | 0      | Refer To Test Graph | Pass  |
|                                  | 836.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 14     | Refer To Test Graph | Pass  |
|                                  |                 | 15            | 0      | Refer To Test Graph | Pass  |
| 16QAM                            | 825.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 15            | 0      | Refer To Test Graph | Pass  |
|                                  | 836.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 14     | Refer To Test Graph | Pass  |
|                                  |                 | 15            | 0      | Refer To Test Graph | Pass  |

#### 6.1.3 B5\_5MHz

| Band: 5 / Bandwidth: 5MHz / NTNV |                 |               |        |                     |       |
|----------------------------------|-----------------|---------------|--------|---------------------|-------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       |
|                                  |                 | Size          | Offset | Result              | Limit |
| QPSK                             | 826.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 25            | 0      | Refer To Test Graph | Pass  |
|                                  | 836.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                  |                 |               | 24     | Refer To Test Graph | Pass  |
|                                  |                 | 25            | 0      | Refer To Test Graph | Pass  |
| 16QAM                            | 826.5           | 1             | 0      | Refer To Test Graph | Pass  |

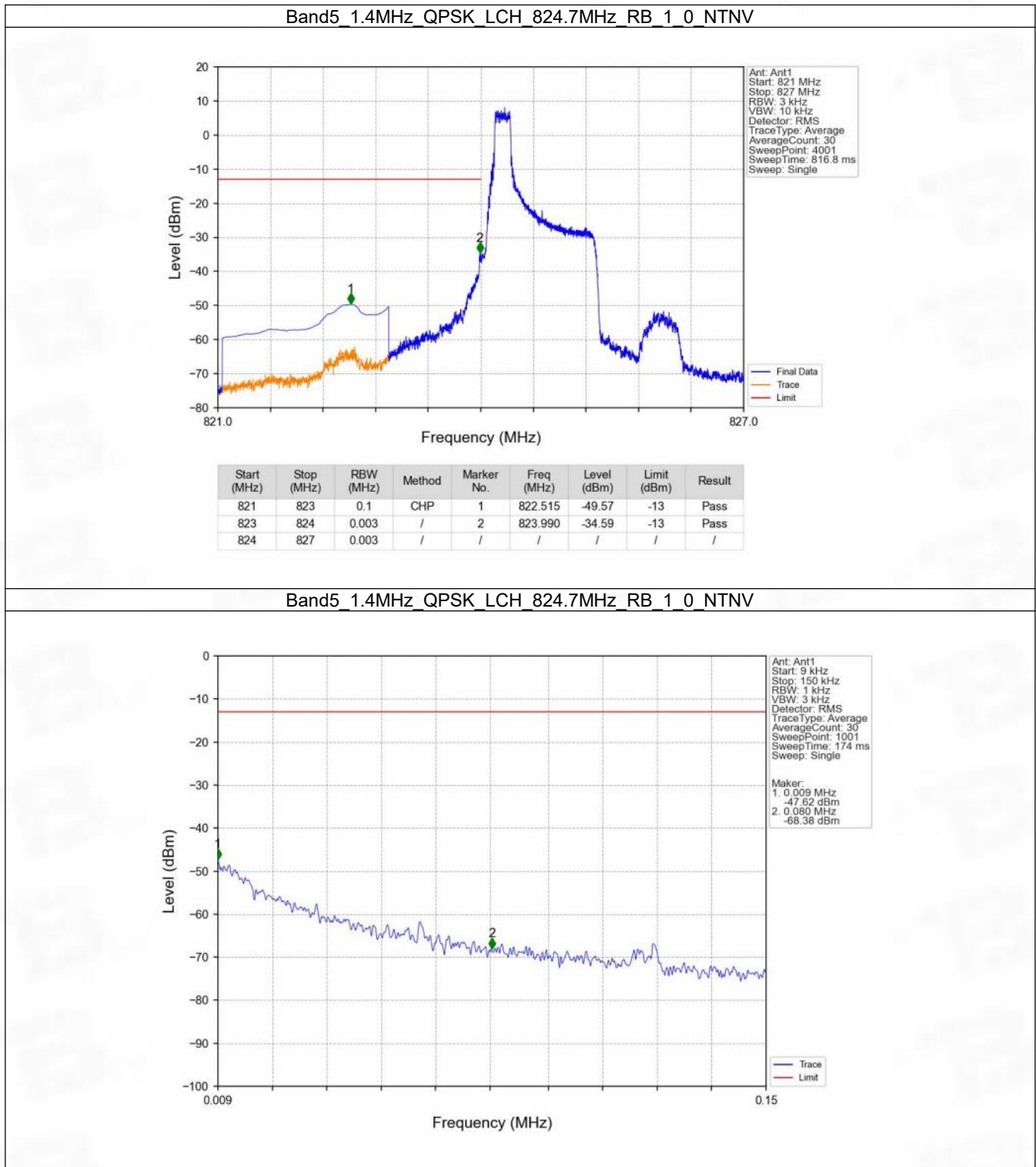
|  |       |    |    |                     |      |
|--|-------|----|----|---------------------|------|
|  | 836.5 | 25 | 0  | Refer To Test Graph | Pass |
|  |       | 1  | 0  | Refer To Test Graph | Pass |
|  | 846.5 | 1  | 0  | Refer To Test Graph | Pass |
|  |       |    | 24 | Refer To Test Graph | Pass |
|  |       | 25 | 0  | Refer To Test Graph | Pass |

#### 6.1.4 B5\_10MHz

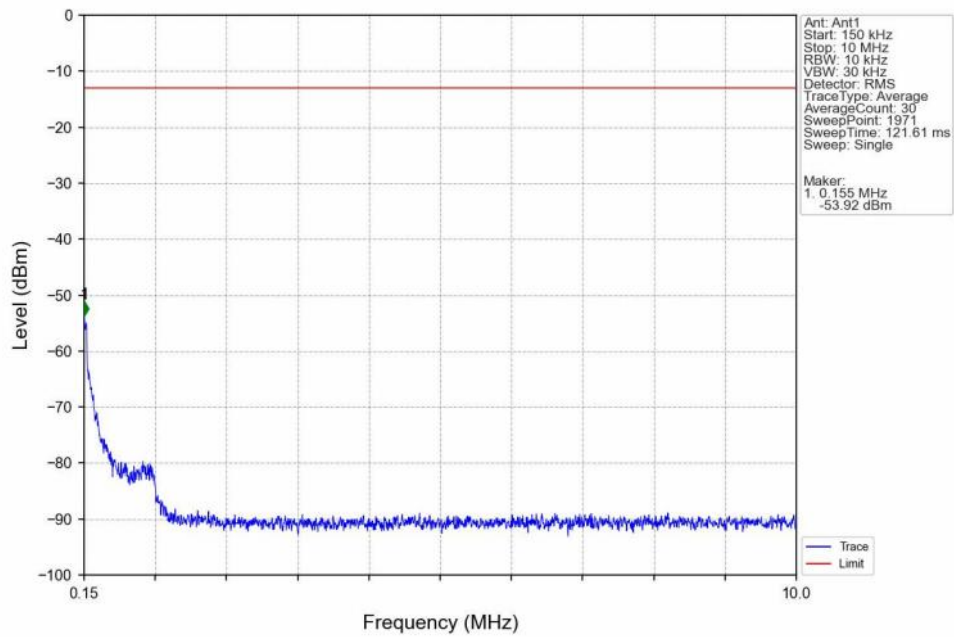
| Band: 5 / Bandwidth: 10MHz / NTNV |                 |               |        |                     |       |
|-----------------------------------|-----------------|---------------|--------|---------------------|-------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Spurious Emission   |       |
|                                   |                 | Size          | Offset | Result              | Limit |
| QPSK                              | 829             | 1             | 0      | Refer To Test Graph | Pass  |
|                                   |                 | 50            | 0      | Refer To Test Graph | Pass  |
|                                   | 836.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                   | 844             | 1             | 0      | Refer To Test Graph | Pass  |
|                                   |                 |               | 49     | Refer To Test Graph | Pass  |
|                                   |                 | 50            | 0      | Refer To Test Graph | Pass  |
| 16QAM                             | 829             | 1             | 0      | Refer To Test Graph | Pass  |
|                                   |                 | 50            | 0      | Refer To Test Graph | Pass  |
|                                   | 836.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                   | 844             | 1             | 0      | Refer To Test Graph | Pass  |
|                                   |                 |               | 49     | Refer To Test Graph | Pass  |
|                                   |                 | 50            | 0      | Refer To Test Graph | Pass  |

## 6.2 Test Graph

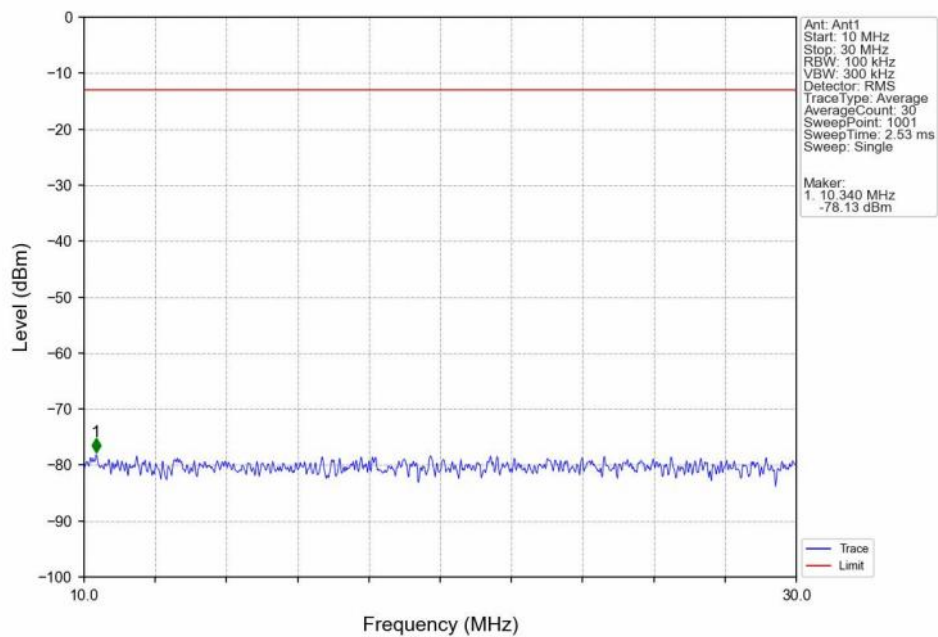
### 6.2.1 B5\_1.4MHz



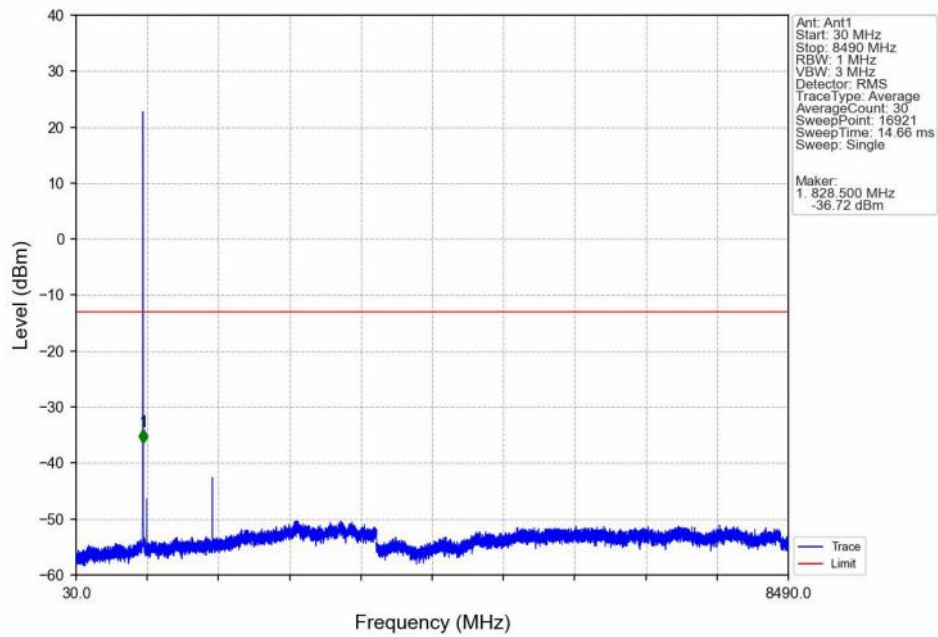
Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_1\_0\_NTNV



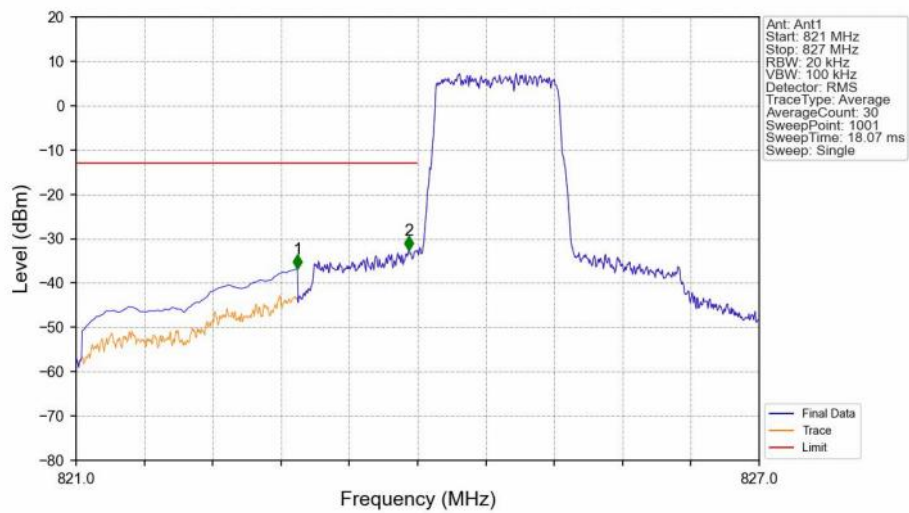
Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_1\_0\_NTNV

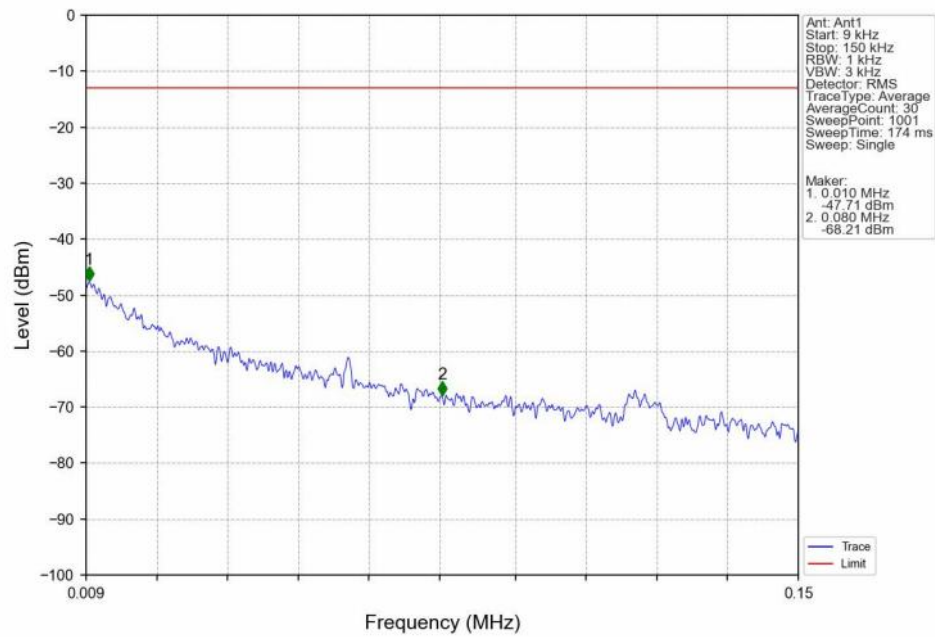


Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 821         | 823        | 0.1       | CHP    | 1          | 822.944    | -36.76      | -13         | Pass   |
| 823         | 824        | 0.02      | /      | 2          | 823.922    | -32.54      | -13         | Pass   |
| 824         | 827        | 0.02      | /      | /          | /          | /           | /           | /      |

Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV

