



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

Report No.: SZCR240200059401  
Rev.: 01  
Page: 1 of 144

# Appendix B.8

## LTE Band 5



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Report No.: SZCR240200059401

Rev.: 01

Page: 2 of 144

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

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

#### 1.1.1 Test Result\_Ant4

| 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      | 24.40                 | -5.1       | 17.15     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 24.49                 | -5.1       | 17.24     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 24.39                 | -5.1       | 17.14     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 24.46                 | -5.1       | 17.21     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 24.50                 | -5.1       | 17.25     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 24.46                 | -5.1       | 17.21     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 23.48                 | -5.1       | 16.23     | <=38.45 | Pass    |
|                                    |                 |               | 0      | 24.48                 | -5.1       | 17.23     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 24.50                 | -5.1       | 17.25     | <=38.45 | Pass    |
|                                    | 836.5           | 1             | 0      | 24.62                 | -5.1       | 17.37     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 24.52                 | -5.1       | 17.27     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 24.50                 | -5.1       | 17.25     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 24.52                 | -5.1       | 17.27     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 24.53                 | -5.1       | 17.28     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 24.52                 | -5.1       | 17.27     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 23.54                 | -5.1       | 16.29     | <=38.45 | Pass    |
|                                    |                 |               | 0      | 24.43                 | -5.1       | 17.18     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 24.56                 | -5.1       | 17.31     | <=38.45 | Pass    |
|                                    | 848.3           | 1             | 0      | 24.43                 | -5.1       | 17.18     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 24.56                 | -5.1       | 17.31     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 24.43                 | -5.1       | 17.18     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 24.53                 | -5.1       | 17.28     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 24.52                 | -5.1       | 17.27     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 24.48                 | -5.1       | 17.23     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 23.54                 | -5.1       | 16.29     | <=38.45 | Pass    |
| 16QAM                              | 824.7           | 1             | 0      | 23.54                 | -5.1       | 16.29     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.63                 | -5.1       | 16.38     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 23.51                 | -5.1       | 16.26     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 23.38                 | -5.1       | 16.13     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.43                 | -5.1       | 16.18     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 23.39                 | -5.1       | 16.14     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 22.54                 | -5.1       | 15.29     | <=38.45 | Pass    |
|                                    |                 |               | 0      | 23.44                 | -5.1       | 16.19     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.55                 | -5.1       | 16.30     | <=38.45 | Pass    |
|                                    | 836.5           | 1             | 0      | 23.51                 | -5.1       | 16.26     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.55                 | -5.1       | 16.30     | <=38.45 | Pass    |
|                                    |                 |               | 5      | 23.51                 | -5.1       | 16.26     | <=38.45 | Pass    |
|                                    |                 | 3             | 0      | 23.55                 | -5.1       | 16.30     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.53                 | -5.1       | 16.28     | <=38.45 | Pass    |
|                                    |                 |               | 3      | 23.51                 | -5.1       | 16.26     | <=38.45 | Pass    |
|                                    |                 | 6             | 0      | 22.51                 | -5.1       | 15.26     | <=38.45 | Pass    |
|                                    |                 |               | 0      | 23.37                 | -5.1       | 16.12     | <=38.45 | Pass    |
|                                    |                 |               | 2      | 23.48                 | -5.1       | 16.23     | <=38.45 | Pass    |
|                                    | 848.3           | 1             | 5      | 23.36                 | -5.1       | 16.11     | <=38.45 | Pass    |
|                                    |                 |               | 0      | 23.62                 | -5.1       | 16.37     | <=38.45 | Pass    |



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 3 of 144

|       |       |                                              |   |       |       |       |         |         |      |  |
|-------|-------|----------------------------------------------|---|-------|-------|-------|---------|---------|------|--|
|       |       | 6                                            | 2 | 23.66 | -5.1  | 16.41 | <=38.45 | Pass    |      |  |
|       |       |                                              | 3 | 23.60 | -5.1  | 16.35 | <=38.45 | Pass    |      |  |
|       |       |                                              | 0 | 22.57 | -5.1  | 15.32 | <=38.45 | Pass    |      |  |
| 64QAM | 824.7 | 1                                            | 0 | 22.56 | -5.1  | 15.31 | <=38.45 | Pass    |      |  |
|       |       |                                              | 2 | 22.69 | -5.1  | 15.44 | <=38.45 | Pass    |      |  |
|       |       |                                              | 5 | 22.48 | -5.1  | 15.23 | <=38.45 | Pass    |      |  |
|       |       | 3                                            | 0 | 22.73 | -5.1  | 15.48 | <=38.45 | Pass    |      |  |
|       |       |                                              | 2 | 22.73 | -5.1  | 15.48 | <=38.45 | Pass    |      |  |
|       |       |                                              | 3 | 22.70 | -5.1  | 15.45 | <=38.45 | Pass    |      |  |
|       |       | 6                                            | 0 | 21.66 | -5.1  | 14.41 | <=38.45 | Pass    |      |  |
|       |       | 836.5                                        | 1 | 0     | 22.36 | -5.1  | 15.11   | <=38.45 | Pass |  |
|       |       |                                              |   | 2     | 22.44 | -5.1  | 15.19   | <=38.45 | Pass |  |
|       | 5     |                                              |   | 22.41 | -5.1  | 15.16 | <=38.45 | Pass    |      |  |
|       | 3     |                                              | 0 | 22.51 | -5.1  | 15.26 | <=38.45 | Pass    |      |  |
|       |       |                                              | 2 | 22.54 | -5.1  | 15.29 | <=38.45 | Pass    |      |  |
|       |       |                                              | 3 | 22.52 | -5.1  | 15.27 | <=38.45 | Pass    |      |  |
|       | 6     |                                              | 0 | 21.56 | -5.1  | 14.31 | <=38.45 | Pass    |      |  |
|       | 848.3 |                                              | 1 | 0     | 22.76 | -5.1  | 15.51   | <=38.45 | Pass |  |
|       |       |                                              |   | 2     | 22.92 | -5.1  | 15.67   | <=38.45 | Pass |  |
|       |       | 5                                            |   | 22.78 | -5.1  | 15.53 | <=38.45 | Pass    |      |  |
|       |       | 3                                            | 0 | 22.72 | -5.1  | 15.47 | <=38.45 | Pass    |      |  |
|       |       |                                              | 2 | 22.72 | -5.1  | 15.47 | <=38.45 | Pass    |      |  |
|       |       |                                              | 3 | 22.68 | -5.1  | 15.43 | <=38.45 | Pass    |      |  |
|       |       | 6                                            | 0 | 21.48 | -5.1  | 14.23 | <=38.45 | Pass    |      |  |
|       |       | Note1: ERP=Conducted Power+Antenna Gain-2.15 |   |       |       |       |         |         |      |  |



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401  
Rev.: 01  
Page: 4 of 144

## 1.2 B5\_3MHz\_ERP

### 1.2.1 Test Result

| 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      | 24.48                 | -5.1       | 17.23     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 24.57                 | -5.1       | 17.32     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 24.44                 | -5.1       | 17.19     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 23.42                 | -5.1       | 16.17     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 23.46                 | -5.1       | 16.21     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 23.41                 | -5.1       | 16.16     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 23.42                 | -5.1       | 16.17     | <=38.45 | Pass    |
|                                  | 836.5           | 1             | 0      | 24.50                 | -5.1       | 17.25     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 24.65                 | -5.1       | 17.40     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 24.51                 | -5.1       | 17.26     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 23.50                 | -5.1       | 16.25     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 23.56                 | -5.1       | 16.31     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 23.51                 | -5.1       | 16.26     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 23.52                 | -5.1       | 16.27     | <=38.45 | Pass    |
|                                  | 847.5           | 1             | 0      | 24.58                 | -5.1       | 17.33     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 24.68                 | -5.1       | 17.43     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 24.54                 | -5.1       | 17.29     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 23.51                 | -5.1       | 16.26     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 23.55                 | -5.1       | 16.30     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 23.49                 | -5.1       | 16.24     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 23.49                 | -5.1       | 16.24     | <=38.45 | Pass    |
| 16QAM                            | 825.5           | 1             | 0      | 24.00                 | -5.1       | 16.75     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 24.07                 | -5.1       | 16.82     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 23.94                 | -5.1       | 16.69     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 22.61                 | -5.1       | 15.36     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 22.68                 | -5.1       | 15.43     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 22.63                 | -5.1       | 15.38     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 22.54                 | -5.1       | 15.29     | <=38.45 | Pass    |
|                                  | 836.5           | 1             | 0      | 23.65                 | -5.1       | 16.40     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 23.79                 | -5.1       | 16.54     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 23.68                 | -5.1       | 16.43     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 22.48                 | -5.1       | 15.23     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 22.59                 | -5.1       | 15.34     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 22.54                 | -5.1       | 15.29     | <=38.45 | Pass    |
|                                  |                 | 15            | 0      | 22.52                 | -5.1       | 15.27     | <=38.45 | Pass    |
|                                  | 847.5           | 1             | 0      | 23.58                 | -5.1       | 16.33     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 23.64                 | -5.1       | 16.39     | <=38.45 | Pass    |
|                                  |                 |               | 14     | 23.45                 | -5.1       | 16.20     | <=38.45 | Pass    |
|                                  |                 | 8             | 0      | 22.62                 | -5.1       | 15.37     | <=38.45 | Pass    |
|                                  |                 |               | 4      | 22.66                 | -5.1       | 15.41     | <=38.45 | Pass    |
|                                  |                 |               | 7      | 22.58                 | -5.1       | 15.33     | <=38.45 | Pass    |



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 5 of 144

|       |       |    |    |       |      |       |         |      |
|-------|-------|----|----|-------|------|-------|---------|------|
| 64QAM | 825.5 | 15 | 0  | 22.57 | -5.1 | 15.32 | <=38.45 | Pass |
|       |       | 1  | 0  | 22.73 | -5.1 | 15.48 | <=38.45 | Pass |
|       |       |    | 7  | 22.84 | -5.1 | 15.59 | <=38.45 | Pass |
|       |       |    | 14 | 22.70 | -5.1 | 15.45 | <=38.45 | Pass |
|       |       |    | 0  | 21.56 | -5.1 | 14.31 | <=38.45 | Pass |
|       |       | 8  | 4  | 21.59 | -5.1 | 14.34 | <=38.45 | Pass |
|       |       |    | 7  | 21.58 | -5.1 | 14.33 | <=38.45 | Pass |
|       |       | 15 | 0  | 21.41 | -5.1 | 14.16 | <=38.45 | Pass |
|       | 836.5 | 1  | 0  | 22.57 | -5.1 | 15.32 | <=38.45 | Pass |
|       |       |    | 7  | 22.75 | -5.1 | 15.50 | <=38.45 | Pass |
|       |       |    | 14 | 22.63 | -5.1 | 15.38 | <=38.45 | Pass |
|       |       | 8  | 0  | 21.41 | -5.1 | 14.16 | <=38.45 | Pass |
|       |       |    | 4  | 21.46 | -5.1 | 14.21 | <=38.45 | Pass |
|       |       |    | 7  | 21.43 | -5.1 | 14.18 | <=38.45 | Pass |
|       |       | 15 | 0  | 21.62 | -5.1 | 14.37 | <=38.45 | Pass |
|       | 847.5 | 1  | 0  | 22.46 | -5.1 | 15.21 | <=38.45 | Pass |
|       |       |    | 7  | 22.48 | -5.1 | 15.23 | <=38.45 | Pass |
|       |       |    | 14 | 22.34 | -5.1 | 15.09 | <=38.45 | Pass |
|       |       | 8  | 0  | 21.52 | -5.1 | 14.27 | <=38.45 | Pass |
|       |       |    | 4  | 21.53 | -5.1 | 14.28 | <=38.45 | Pass |
|       |       |    | 7  | 21.47 | -5.1 | 14.22 | <=38.45 | Pass |
|       |       | 15 | 0  | 21.49 | -5.1 | 14.24 | <=38.45 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15



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Report No.: SZCR240200059401  
Rev.: 01  
Page: 6 of 144

## 1.3 B5\_5MHz\_ERP

### 1.3.1 Test Result

| 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      | 24.39                 | -5.1       | 17.14     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 24.50                 | -5.1       | 17.25     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 24.40                 | -5.1       | 17.15     | <=38.45 | Pass    |
|                                  |                 | 12            | 0      | 23.40                 | -5.1       | 16.15     | <=38.45 | Pass    |
|                                  |                 |               | 6      | 23.45                 | -5.1       | 16.20     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.43                 | -5.1       | 16.18     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 23.38                 | -5.1       | 16.13     | <=38.45 | Pass    |
|                                  | 836.5           | 1             | 0      | 24.45                 | -5.1       | 17.20     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 24.51                 | -5.1       | 17.26     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 24.46                 | -5.1       | 17.21     | <=38.45 | Pass    |
|                                  |                 | 12            | 0      | 23.50                 | -5.1       | 16.25     | <=38.45 | Pass    |
|                                  |                 |               | 6      | 23.55                 | -5.1       | 16.30     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.43                 | -5.1       | 16.18     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 23.49                 | -5.1       | 16.24     | <=38.45 | Pass    |
|                                  | 846.5           | 1             | 0      | 24.51                 | -5.1       | 17.26     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 24.57                 | -5.1       | 17.32     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 24.40                 | -5.1       | 17.15     | <=38.45 | Pass    |
|                                  |                 | 12            | 0      | 23.53                 | -5.1       | 16.28     | <=38.45 | Pass    |
|                                  |                 |               | 6      | 23.56                 | -5.1       | 16.31     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.47                 | -5.1       | 16.22     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 23.48                 | -5.1       | 16.23     | <=38.45 | Pass    |
| 16QAM                            | 826.5           | 1             | 0      | 23.23                 | -5.1       | 15.98     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.31                 | -5.1       | 16.06     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 23.24                 | -5.1       | 15.99     | <=38.45 | Pass    |
|                                  |                 | 12            | 0      | 22.38                 | -5.1       | 15.13     | <=38.45 | Pass    |
|                                  |                 |               | 6      | 22.48                 | -5.1       | 15.23     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.46                 | -5.1       | 15.21     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 22.47                 | -5.1       | 15.22     | <=38.45 | Pass    |
|                                  | 836.5           | 1             | 0      | 23.66                 | -5.1       | 16.41     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.73                 | -5.1       | 16.48     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 23.69                 | -5.1       | 16.44     | <=38.45 | Pass    |
|                                  |                 | 12            | 0      | 22.55                 | -5.1       | 15.30     | <=38.45 | Pass    |
|                                  |                 |               | 6      | 22.63                 | -5.1       | 15.38     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.50                 | -5.1       | 15.25     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 22.53                 | -5.1       | 15.28     | <=38.45 | Pass    |
|                                  | 846.5           | 1             | 0      | 23.55                 | -5.1       | 16.30     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.62                 | -5.1       | 16.37     | <=38.45 | Pass    |
|                                  |                 |               | 24     | 23.46                 | -5.1       | 16.21     | <=38.45 | Pass    |
|                                  |                 | 12            | 0      | 22.55                 | -5.1       | 15.30     | <=38.45 | Pass    |
|                                  |                 |               | 6      | 22.58                 | -5.1       | 15.33     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.49                 | -5.1       | 15.24     | <=38.45 | Pass    |



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Report No.: SZCR240200059401

Rev.: 01

Page: 7 of 144

|       |                                              |       |    |       |       |       |         |         |      |
|-------|----------------------------------------------|-------|----|-------|-------|-------|---------|---------|------|
|       |                                              | 25    | 0  | 22.57 | -5.1  | 15.32 | <=38.45 | Pass    |      |
| 64QAM | 826.5                                        | 1     | 0  | 22.37 | -5.1  | 15.12 | <=38.45 | Pass    |      |
|       |                                              |       | 13 | 22.49 | -5.1  | 15.24 | <=38.45 | Pass    |      |
|       |                                              |       | 24 | 22.38 | -5.1  | 15.13 | <=38.45 | Pass    |      |
|       |                                              |       | 0  | 21.30 | -5.1  | 14.05 | <=38.45 | Pass    |      |
|       |                                              | 12    | 6  | 21.37 | -5.1  | 14.12 | <=38.45 | Pass    |      |
|       |                                              |       | 13 | 21.37 | -5.1  | 14.12 | <=38.45 | Pass    |      |
|       |                                              |       | 25 | 0     | 21.38 | -5.1  | 14.13   | <=38.45 | Pass |
|       |                                              | 836.5 | 1  | 0     | 22.61 | -5.1  | 15.36   | <=38.45 | Pass |
|       |                                              |       |    | 13    | 22.71 | -5.1  | 15.46   | <=38.45 | Pass |
|       | 24                                           |       |    | 22.61 | -5.1  | 15.36 | <=38.45 | Pass    |      |
|       | 12                                           |       | 0  | 21.43 | -5.1  | 14.18 | <=38.45 | Pass    |      |
|       |                                              |       | 6  | 21.55 | -5.1  | 14.30 | <=38.45 | Pass    |      |
|       |                                              |       | 13 | 21.44 | -5.1  | 14.19 | <=38.45 | Pass    |      |
|       |                                              |       | 25 | 0     | 21.52 | -5.1  | 14.27   | <=38.45 | Pass |
|       | 846.5                                        |       | 1  | 0     | 22.69 | -5.1  | 15.44   | <=38.45 | Pass |
|       |                                              |       |    | 13    | 22.73 | -5.1  | 15.48   | <=38.45 | Pass |
|       |                                              | 24    |    | 22.59 | -5.1  | 15.34 | <=38.45 | Pass    |      |
|       |                                              | 12    | 0  | 21.60 | -5.1  | 14.35 | <=38.45 | Pass    |      |
|       |                                              |       | 6  | 21.64 | -5.1  | 14.39 | <=38.45 | Pass    |      |
|       |                                              |       | 13 | 21.52 | -5.1  | 14.27 | <=38.45 | Pass    |      |
|       |                                              | 25    | 0  | 21.46 | -5.1  | 14.21 | <=38.45 | Pass    |      |
|       | Note1: ERP=Conducted Power+Antenna Gain-2.15 |       |    |       |       |       |         |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15



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Report No.: SZCR240200059401  
Rev.: 01  
Page: 8 of 144

## 1.4 B5\_10MHz\_ERP

### 1.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz / NTN |                 |               |        |                       |            |           |         |         |
|----------------------------------|-----------------|---------------|--------|-----------------------|------------|-----------|---------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|                                  |                 | Size          | Offset |                       |            | Result    | Limit   |         |
| QPSK                             | 829             | 1             | 0      | 24.43                 | -5.1       | 17.18     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 24.60                 | -5.1       | 17.35     | <=38.45 | Pass    |
|                                  |                 |               | 49     | 24.43                 | -5.1       | 17.18     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 23.42                 | -5.1       | 16.17     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.43                 | -5.1       | 16.18     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 23.44                 | -5.1       | 16.19     | <=38.45 | Pass    |
|                                  |                 | 50            | 0      | 23.41                 | -5.1       | 16.16     | <=38.45 | Pass    |
|                                  | 836.5           | 1             | 0      | 24.49                 | -5.1       | 17.24     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 24.68                 | -5.1       | 17.43     | <=38.45 | Pass    |
|                                  |                 |               | 49     | 24.56                 | -5.1       | 17.31     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 23.50                 | -5.1       | 16.25     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.52                 | -5.1       | 16.27     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 23.57                 | -5.1       | 16.32     | <=38.45 | Pass    |
|                                  |                 | 50            | 0      | 23.53                 | -5.1       | 16.28     | <=38.45 | Pass    |
|                                  | 844             | 1             | 0      | 24.59                 | -5.1       | 17.34     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 24.73                 | -5.1       | 17.48     | <=38.45 | Pass    |
|                                  |                 |               | 49     | 24.55                 | -5.1       | 17.30     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 23.62                 | -5.1       | 16.37     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 23.56                 | -5.1       | 16.31     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 23.54                 | -5.1       | 16.29     | <=38.45 | Pass    |
|                                  |                 | 50            | 0      | 23.58                 | -5.1       | 16.33     | <=38.45 | Pass    |
| 16QAM                            | 829             | 1             | 0      | 23.99                 | -5.1       | 16.74     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 24.09                 | -5.1       | 16.84     | <=38.45 | Pass    |
|                                  |                 |               | 49     | 23.91                 | -5.1       | 16.66     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 22.50                 | -5.1       | 15.25     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.55                 | -5.1       | 15.30     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 22.57                 | -5.1       | 15.32     | <=38.45 | Pass    |
|                                  |                 | 50            | 0      | 22.49                 | -5.1       | 15.24     | <=38.45 | Pass    |
|                                  | 836.5           | 1             | 0      | 23.63                 | -5.1       | 16.38     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 23.79                 | -5.1       | 16.54     | <=38.45 | Pass    |
|                                  |                 |               | 49     | 23.71                 | -5.1       | 16.46     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 22.55                 | -5.1       | 15.30     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.61                 | -5.1       | 15.36     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 22.62                 | -5.1       | 15.37     | <=38.45 | Pass    |
|                                  |                 | 50            | 0      | 22.59                 | -5.1       | 15.34     | <=38.45 | Pass    |
|                                  | 844             | 1             | 0      | 23.51                 | -5.1       | 16.26     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 23.70                 | -5.1       | 16.45     | <=38.45 | Pass    |
|                                  |                 |               | 49     | 23.46                 | -5.1       | 16.21     | <=38.45 | Pass    |
|                                  |                 | 25            | 0      | 22.72                 | -5.1       | 15.47     | <=38.45 | Pass    |
|                                  |                 |               | 13     | 22.70                 | -5.1       | 15.45     | <=38.45 | Pass    |
|                                  |                 |               | 25     | 22.64                 | -5.1       | 15.39     | <=38.45 | Pass    |



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Report No.: SZCR240200059401

Rev.: 01

Page: 9 of 144

|       |     |                                              |    |       |       |       |         |         |      |
|-------|-----|----------------------------------------------|----|-------|-------|-------|---------|---------|------|
|       |     | 50                                           | 0  | 22.64 | -5.1  | 15.39 | <=38.45 | Pass    |      |
| 64QAM | 829 | 1                                            | 0  | 22.66 | -5.1  | 15.41 | <=38.45 | Pass    |      |
|       |     |                                              | 25 | 22.82 | -5.1  | 15.57 | <=38.45 | Pass    |      |
|       |     |                                              | 49 | 22.67 | -5.1  | 15.42 | <=38.45 | Pass    |      |
|       |     |                                              | 0  | 21.44 | -5.1  | 14.19 | <=38.45 | Pass    |      |
|       |     | 25                                           | 13 | 21.46 | -5.1  | 14.21 | <=38.45 | Pass    |      |
|       |     |                                              | 25 | 21.49 | -5.1  | 14.24 | <=38.45 | Pass    |      |
|       |     |                                              | 0  | 21.44 | -5.1  | 14.19 | <=38.45 | Pass    |      |
|       |     | 836.5                                        | 1  | 0     | 22.58 | -5.1  | 15.33   | <=38.45 | Pass |
|       |     |                                              |    | 25    | 22.69 | -5.1  | 15.44   | <=38.45 | Pass |
|       | 49  |                                              |    | 22.64 | -5.1  | 15.39 | <=38.45 | Pass    |      |
|       | 25  |                                              | 0  | 21.57 | -5.1  | 14.32 | <=38.45 | Pass    |      |
|       |     |                                              | 13 | 21.63 | -5.1  | 14.38 | <=38.45 | Pass    |      |
|       |     |                                              | 25 | 21.63 | -5.1  | 14.38 | <=38.45 | Pass    |      |
|       |     |                                              | 0  | 21.53 | -5.1  | 14.28 | <=38.45 | Pass    |      |
|       | 844 |                                              | 1  | 0     | 22.54 | -5.1  | 15.29   | <=38.45 | Pass |
|       |     |                                              |    | 25    | 22.71 | -5.1  | 15.46   | <=38.45 | Pass |
|       |     | 49                                           |    | 22.51 | -5.1  | 15.26 | <=38.45 | Pass    |      |
|       |     | 25                                           | 0  | 21.68 | -5.1  | 14.43 | <=38.45 | Pass    |      |
|       |     |                                              | 13 | 21.63 | -5.1  | 14.38 | <=38.45 | Pass    |      |
|       |     |                                              | 25 | 21.62 | -5.1  | 14.37 | <=38.45 | Pass    |      |
|       |     | 50                                           | 0  | 21.61 | -5.1  | 14.36 | <=38.45 | Pass    |      |
|       |     | Note1: ERP=Conducted Power+Antenna Gain-2.15 |    |       |       |       |         |         |      |

Note1: ERP=Conducted Power+Antenna Gain-2.15



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Report No.: SZCR240200059401

Rev.: 01

Page: 10 of 144

## 2. Frequency Stability

### 2.1 B5\_1.4MHz

#### 2.1.1 Test Result

| 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         | 3.6           | -5.980           | -0.0073               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.84          | -7.181           | -0.0087               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.3           | -2.503           | -0.0030               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.84          | -5.593           | -0.0068               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.84          | -5.894           | -0.0071               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.84          | -4.921           | -0.0060               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.84          | -4.749           | -0.0058               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.84          | -8.440           | -0.0102               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.84          | -6.323           | -0.0077               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.84          | -5.651           | -0.0069               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.84          | -11.673          | -0.0142               | -2.5 to 2.5 | Pass    |
|                             | 836.5           | 6             | 0      | 20         | 3.6           | -7.496           | -0.0090               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.84          | -6.423           | -0.0077               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.3           | -5.879           | -0.0070               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.84          | -6.423           | -0.0077               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.84          | -7.095           | -0.0085               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.84          | -2.646           | -0.0032               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.84          | -6.008           | -0.0072               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.84          | -8.211           | -0.0098               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.84          | 0.730            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.84          | -8.168           | -0.0098               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.84          | -5.479           | -0.0065               | -2.5 to 2.5 | Pass    |
|                             | 848.3           | 6             | 0      | 20         | 3.6           | -8.326           | -0.0098               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.84          | -14.834          | -0.0175               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.3           | -15.821          | -0.0187               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.84          | -14.105          | -0.0166               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.84          | -13.804          | -0.0163               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.84          | -12.689          | -0.0150               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 3.84          | -10.829          | -0.0128               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 3.84          | -14.191          | -0.0167               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 3.84          | -8.698           | -0.0103               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 3.84          | -7.782           | -0.0092               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 3.84          | -8.397           | -0.0099               | -2.5 to 2.5 | Pass    |
| 16QAM                       | 824.7           | 6             | 0      | 20         | 3.6           | -4.506           | -0.0055               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 3.84          | -7.739           | -0.0094               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 4.3           | -5.093           | -0.0062               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 3.84          | -10.428          | -0.0126               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 3.84          | -7.138           | -0.0087               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 3.84          | -10.014          | -0.0121               | -2.5 to 2.5 | Pass    |



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Report No.: SZCR240200059401

Rev.: 01

Page: 11 of 144

|       |       |   |   |     |      |         |         |             |      |
|-------|-------|---|---|-----|------|---------|---------|-------------|------|
| 64QAM |       |   |   | 0   | 3.84 | -4.148  | -0.0050 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.84 | -7.253  | -0.0088 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.84 | -9.499  | -0.0115 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.84 | -7.238  | -0.0088 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.84 | -0.787  | -0.0010 | -2.5 to 2.5 | Pass |
|       | 836.5 | 6 | 0 | 20  | 3.6  | -5.808  | -0.0069 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.84 | -6.523  | -0.0078 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.3  | -5.622  | -0.0067 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.84 | -4.134  | -0.0049 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.84 | -5.207  | -0.0062 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.84 | -7.253  | -0.0087 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.84 | -7.238  | -0.0087 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.84 | -6.394  | -0.0076 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.84 | -9.484  | -0.0113 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.84 | -3.691  | -0.0044 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.84 | -7.167  | -0.0086 | -2.5 to 2.5 | Pass |
|       | 848.3 | 6 | 0 | 20  | 3.6  | -9.799  | -0.0116 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.84 | -8.426  | -0.0099 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.3  | -8.354  | -0.0098 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.84 | -6.094  | -0.0072 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.84 | -1.903  | -0.0022 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.84 | -8.984  | -0.0106 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.84 | -7.496  | -0.0088 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.84 | -8.025  | -0.0095 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.84 | -4.363  | -0.0051 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.84 | -4.320  | -0.0051 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.84 | -8.569  | -0.0101 | -2.5 to 2.5 | Pass |
|       | 824.7 | 6 | 0 | 20  | 3.6  | -5.651  | -0.0069 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.84 | -3.719  | -0.0045 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.3  | -8.297  | -0.0101 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.84 | -4.950  | -0.0060 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.84 | -9.756  | -0.0118 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.84 | -4.849  | -0.0059 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.84 | -7.510  | -0.0091 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.84 | 0.458   | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.84 | -4.349  | -0.0053 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.84 | -5.164  | -0.0063 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.84 | -3.948  | -0.0048 | -2.5 to 2.5 | Pass |
|       | 836.5 | 6 | 0 | 20  | 3.6  | -3.161  | -0.0038 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 3.84 | -8.955  | -0.0107 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 4.3  | -6.824  | -0.0082 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 3.84 | -10.014 | -0.0120 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 3.84 | -7.825  | -0.0094 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 3.84 | -5.407  | -0.0065 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 3.84 | -6.495  | -0.0078 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 3.84 | -8.898  | -0.0106 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 3.84 | -4.478  | -0.0054 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 3.84 | -8.454  | -0.0101 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 3.84 | -5.708  | -0.0068 | -2.5 to 2.5 | Pass |



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Report No.: SZCR240200059401

Rev.: 01

Page: 12 of 144

|       |   |   |     |      |        |         |             |      |
|-------|---|---|-----|------|--------|---------|-------------|------|
| 848.3 | 6 | 0 | 20  | 3.6  | -2.990 | -0.0035 | -2.5 to 2.5 | Pass |
|       |   |   |     | 3.84 | -2.532 | -0.0030 | -2.5 to 2.5 | Pass |
|       |   |   |     | 4.3  | -5.236 | -0.0062 | -2.5 to 2.5 | Pass |
|       |   |   | -30 | 3.84 | -4.706 | -0.0055 | -2.5 to 2.5 | Pass |
|       |   |   | -20 | 3.84 | -6.108 | -0.0072 | -2.5 to 2.5 | Pass |
|       |   |   | -10 | 3.84 | -4.692 | -0.0055 | -2.5 to 2.5 | Pass |
|       |   |   | 0   | 3.84 | -2.503 | -0.0030 | -2.5 to 2.5 | Pass |
|       |   |   | 10  | 3.84 | -2.089 | -0.0025 | -2.5 to 2.5 | Pass |
|       |   |   | 30  | 3.84 | -5.751 | -0.0068 | -2.5 to 2.5 | Pass |
|       |   |   | 40  | 3.84 | -1.431 | -0.0017 | -2.5 to 2.5 | Pass |
|       |   |   | 50  | 3.84 | -5.236 | -0.0062 | -2.5 to 2.5 | Pass |



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Report No.: SZCR240200059401

Rev.: 01

Page: 13 of 144

## 2.2 B5\_3MHz

### 2.2.1 Test Result

| 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          | 3.6           | -9.770           | -0.0118               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 3.84          | -15.292          | -0.0185               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 4.3           | -13.218          | -0.0160               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -30         | 3.84          | -14.377          | -0.0174               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -20         | 3.84          | -11.115          | -0.0135               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -10         | 3.84          | -13.332          | -0.0162               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 0           | 3.84          | -9.212           | -0.0112               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 10          | 3.84          | -9.885           | -0.0120               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 30          | 3.84          | -9.298           | -0.0113               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 40          | 3.84          | -8.311           | -0.0101               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 50          | 3.84          | -7.668           | -0.0093               | -2.5 to 2.5 | Pass    |
|                           | 836.5           | 15            | 0       | 20          | 3.6           | -0.572           | -0.0007               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 3.84          | -10.500          | -0.0126               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 4.3           | -9.084           | -0.0109               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -30         | 3.84          | -7.181           | -0.0086               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -20         | 3.84          | -7.725           | -0.0092               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -10         | 3.84          | -6.380           | -0.0076               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 0           | 3.84          | -8.497           | -0.0102               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 10          | 3.84          | -6.595           | -0.0079               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 30          | 3.84          | -5.937           | -0.0071               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 40          | 3.84          | -4.435           | -0.0053               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 50          | 3.84          | -10.757          | -0.0129               | -2.5 to 2.5 | Pass    |
|                           | 847.5           | 15            | 0       | 20          | 3.6           | -3.262           | -0.0038               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 3.84          | -8.755           | -0.0103               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 4.3           | -7.653           | -0.0090               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -30         | 3.84          | -8.469           | -0.0100               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -20         | 3.84          | -9.971           | -0.0118               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -10         | 3.84          | -0.730           | -0.0009               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 0           | 3.84          | -9.913           | -0.0117               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 10          | 3.84          | -8.454           | -0.0100               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 30          | 3.84          | -6.695           | -0.0079               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 40          | 3.84          | 15.492           | 0.0183                | -2.5 to 2.5 | Pass    |
| 50                        | 3.84            | -1.988        | -0.0023 | -2.5 to 2.5 | Pass          |                  |                       |             |         |
| 16QAM                     | 825.5           | 15            | 0       | 20          | 3.6           | -6.866           | -0.0083               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 3.84          | -3.405           | -0.0041               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 4.3           | -5.522           | -0.0067               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -30         | 3.84          | -5.865           | -0.0071               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -20         | 3.84          | -6.666           | -0.0081               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -10         | 3.84          | -4.320           | -0.0052               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 0           | 3.84          | -6.495           | -0.0079               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 10          | 3.84          | -6.738           | -0.0082               | -2.5 to 2.5 | Pass    |



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Report No.: SZCR240200059401

Rev.: 01

Page: 14 of 144

|    |       |      |         |         |             |         |             |             |             |         |             |      |
|----|-------|------|---------|---------|-------------|---------|-------------|-------------|-------------|---------|-------------|------|
|    | 836.5 | 15   | 0       | 20      | 30          | 3.84    | -2.317      | -0.0028     | -2.5 to 2.5 | Pass    |             |      |
|    |       |      |         |         | 40          | 3.84    | -4.578      | -0.0055     | -2.5 to 2.5 | Pass    |             |      |
|    |       |      |         |         | 50          | 3.84    | -5.608      | -0.0068     | -2.5 to 2.5 | Pass    |             |      |
|    |       |      |         |         |             |         | 20          | 3.6         | -6.008      | -0.0072 | -2.5 to 2.5 | Pass |
|    |       |      |         |         |             |         |             | 3.84        | -8.469      | -0.0101 | -2.5 to 2.5 | Pass |
|    |       |      |         |         |             |         |             | 4.3         | -4.034      | -0.0048 | -2.5 to 2.5 | Pass |
|    |       |      |         |         |             |         | -30         | 3.84        | -9.155      | -0.0109 | -2.5 to 2.5 | Pass |
|    |       |      |         |         |             |         | -20         | 3.84        | -6.008      | -0.0072 | -2.5 to 2.5 | Pass |
|    |       |      |         |         |             |         | -10         | 3.84        | -3.490      | -0.0042 | -2.5 to 2.5 | Pass |
|    |       |      |         |         |             |         | 0           | 3.84        | -5.836      | -0.0070 | -2.5 to 2.5 | Pass |
|    |       |      |         |         |             |         | 10          | 3.84        | -9.656      | -0.0115 | -2.5 to 2.5 | Pass |
|    |       |      |         |         |             |         | 30          | 3.84        | -2.775      | -0.0033 | -2.5 to 2.5 | Pass |
|    | 40    | 3.84 | -7.482  | -0.0089 | -2.5 to 2.5 | Pass    |             |             |             |         |             |      |
|    | 50    | 3.84 | -10.285 | -0.0123 | -2.5 to 2.5 | Pass    |             |             |             |         |             |      |
|    | 847.5 | 15   | 0       | 20      | 3.6         | -9.856  | -0.0116     | -2.5 to 2.5 | Pass        |         |             |      |
|    |       |      |         |         | 3.84        | -4.492  | -0.0053     | -2.5 to 2.5 | Pass        |         |             |      |
|    |       |      |         |         | 4.3         | -4.849  | -0.0057     | -2.5 to 2.5 | Pass        |         |             |      |
|    |       |      |         | -30     | 3.84        | -6.495  | -0.0077     | -2.5 to 2.5 | Pass        |         |             |      |
|    |       |      |         | -20     | 3.84        | -8.926  | -0.0105     | -2.5 to 2.5 | Pass        |         |             |      |
|    |       |      |         | -10     | 3.84        | -9.313  | -0.0110     | -2.5 to 2.5 | Pass        |         |             |      |
|    |       |      |         | 0       | 3.84        | 0.415   | 0.0005      | -2.5 to 2.5 | Pass        |         |             |      |
|    |       |      |         | 10      | 3.84        | -5.908  | -0.0070     | -2.5 to 2.5 | Pass        |         |             |      |
|    |       |      |         | 30      | 3.84        | -9.413  | -0.0111     | -2.5 to 2.5 | Pass        |         |             |      |
|    |       |      |         | 40      | 3.84        | -7.982  | -0.0094     | -2.5 to 2.5 | Pass        |         |             |      |
| 50 |       |      |         | 3.84    | -5.436      | -0.0064 | -2.5 to 2.5 | Pass        |             |         |             |      |

|       |       |        |         |       |        |         |         |             |        |
|-------|-------|--------|---------|-------|--------|---------|---------|-------------|--------|
| 64QAM | 825.5 | 15     | 0       | 20    | 3.6    | -7.067  | -0.0086 | -2.5 to 2.5 | Pass   |
|       |       |        |         |       | 3.84   | -4.663  | -0.0056 | -2.5 to 2.5 | Pass   |
|       |       |        |         |       | 4.3    | -3.490  | -0.0042 | -2.5 to 2.5 | Pass   |
|       |       |        |         | -30   | 3.84   | -6.723  | -0.0081 | -2.5 to 2.5 | Pass   |
|       |       |        |         | -20   | 3.84   | -4.392  | -0.0053 | -2.5 to 2.5 | Pass   |
|       |       |        |         | -10   | 3.84   | -3.161  | -0.0038 | -2.5 to 2.5 | Pass   |
|       |       |        |         | 0     | 3.84   | -3.934  | -0.0048 | -2.5 to 2.5 | Pass   |
|       |       |        |         | 10    | 3.84   | -7.510  | -0.0091 | -2.5 to 2.5 | Pass   |
|       |       |        |         | 30    | 3.84   | -2.418  | -0.0029 | -2.5 to 2.5 | Pass   |
|       |       |        |         | 40    | 3.84   | -5.736  | -0.0069 | -2.5 to 2.5 | Pass   |
|       |       |        |         | 50    | 3.84   | -5.393  | -0.0065 | -2.5 to 2.5 | Pass   |
|       |       |        |         | 836.5 | 15     | 0       | 20      | 3.6         | -9.756 |
|       | 3.84  | -5.164 | -0.0062 |       |        |         |         | -2.5 to 2.5 | Pass   |
|       | 4.3   | -2.418 | -0.0029 |       |        |         |         | -2.5 to 2.5 | Pass   |
|       | -30   | 3.84   | -4.234  |       |        |         | -0.0051 | -2.5 to 2.5 | Pass   |
|       | -20   | 3.84   | -4.306  |       |        |         | -0.0051 | -2.5 to 2.5 | Pass   |
|       | -10   | 3.84   | -3.333  |       |        |         | -0.0040 | -2.5 to 2.5 | Pass   |
|       | 0     | 3.84   | -5.836  |       |        |         | -0.0070 | -2.5 to 2.5 | Pass   |
|       | 10    | 3.84   | -5.107  |       |        |         | -0.0061 | -2.5 to 2.5 | Pass   |
|       | 30    | 3.84   | -8.469  |       |        |         | -0.0101 | -2.5 to 2.5 | Pass   |
|       | 40    | 3.84   | -15.979 |       |        |         | -0.0191 | -2.5 to 2.5 | Pass   |
|       | 50    | 3.84   | -7.396  |       |        |         | -0.0088 | -2.5 to 2.5 | Pass   |
|       | 847.5 | 15     | 0       |       |        |         | 20      | 3.6         | -5.536 |
|       |       |        |         | 3.84  | -0.529 | -0.0006 |         | -2.5 to 2.5 | Pass   |



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Report No.: SZCR240200059401

Rev.: 01

Page: 15 of 144

|  |  |  |  |     |        |         |             |      |
|--|--|--|--|-----|--------|---------|-------------|------|
|  |  |  |  | 4.3 | -1.888 | -0.0022 | -2.5 to 2.5 | Pass |
|  |  |  |  | -30 | 3.84   | -5.794  | -2.5 to 2.5 | Pass |
|  |  |  |  | -20 | 3.84   | -2.861  | -2.5 to 2.5 | Pass |
|  |  |  |  | -10 | 3.84   | -5.522  | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.84   | -3.419  | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.84   | -4.506  | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.84   | -4.163  | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.84   | -5.608  | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.84   | -4.492  | -2.5 to 2.5 | Pass |



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Report No.: SZCR240200059401

Rev.: 01

Page: 16 of 144

## 2.3 B5\_5MHz

### 2.3.1 Test Result

| 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          | 3.6           | -5.207           | -0.0063               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 3.84          | -9.928           | -0.0120               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 4.3           | -6.280           | -0.0076               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -30         | 3.84          | -9.027           | -0.0109               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -20         | 3.84          | -8.068           | -0.0098               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -10         | 3.84          | -9.184           | -0.0111               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 0           | 3.84          | -7.210           | -0.0087               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 10          | 3.84          | -8.125           | -0.0098               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 30          | 3.84          | -8.268           | -0.0100               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 40          | 3.84          | -4.134           | -0.0050               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 50          | 3.84          | -8.483           | -0.0103               | -2.5 to 2.5 | Pass    |
|                           | 836.5           | 25            | 0       | 20          | 3.6           | -3.147           | -0.0038               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 3.84          | -6.967           | -0.0083               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 4.3           | -2.317           | -0.0028               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -30         | 3.84          | -10.443          | -0.0125               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -20         | 3.84          | -4.578           | -0.0055               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -10         | 3.84          | -8.326           | -0.0100               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 0           | 3.84          | -4.449           | -0.0053               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 10          | 3.84          | -7.281           | -0.0087               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 30          | 3.84          | -3.462           | -0.0041               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 40          | 3.84          | -2.303           | -0.0028               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 50          | 3.84          | -8.397           | -0.0100               | -2.5 to 2.5 | Pass    |
|                           | 846.5           | 25            | 0       | 20          | 3.6           | -4.735           | -0.0056               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 3.84          | -11.015          | -0.0130               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 4.3           | -7.353           | -0.0087               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -30         | 3.84          | -8.569           | -0.0101               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -20         | 3.84          | -6.480           | -0.0077               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -10         | 3.84          | -4.134           | -0.0049               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 0           | 3.84          | -8.783           | -0.0104               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 10          | 3.84          | -7.153           | -0.0085               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 30          | 3.84          | -7.796           | -0.0092               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 40          | 3.84          | -10.042          | -0.0119               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 50          | 3.84          | -7.939           | -0.0094               | -2.5 to 2.5 | Pass    |
| 16QAM                     | 826.5           | 25            | 0       | 20          | 3.6           | -7.310           | -0.0088               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 3.84          | -6.280           | -0.0076               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         |             | 4.3           | -5.708           | -0.0069               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -30         | 3.84          | -4.134           | -0.0050               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -20         | 3.84          | -9.012           | -0.0109               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | -10         | 3.84          | -4.635           | -0.0056               | -2.5 to 2.5 | Pass    |
|                           |                 |               |         | 0           | 3.84          | -6.409           | -0.0078               | -2.5 to 2.5 | Pass    |
| 10                        | 3.84            | -6.452        | -0.0078 | -2.5 to 2.5 | Pass          |                  |                       |             |         |



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Report No.: SZCR240200059401

Rev.: 01

Page: 17 of 144

|       |        |         |         |         |             |         |         |             |             |         |
|-------|--------|---------|---------|---------|-------------|---------|---------|-------------|-------------|---------|
|       | 836.5  | 25      | 0       | 30      | 3.84        | -4.435  | -0.0054 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 40      | 3.84        | -4.678  | -0.0057 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 50      | 3.84        | -3.018  | -0.0037 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 20      | 3.6         | -4.764  | -0.0057 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         |         | 3.84        | -13.332 | -0.0159 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         |         | 4.3         | -7.882  | -0.0094 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | -30     | 3.84        | -6.194  | -0.0074 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | -20     | 3.84        | -6.938  | -0.0083 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | -10     | 3.84        | -8.154  | -0.0097 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 0       | 3.84        | -9.284  | -0.0111 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 10      | 3.84        | -8.254  | -0.0099 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 30      | 3.84        | -0.687  | -0.0008 | -2.5 to 2.5 | Pass        |         |
|       | 40     | 3.84    | -6.509  | -0.0078 | -2.5 to 2.5 | Pass    |         |             |             |         |
|       | 50     | 3.84    | -5.393  | -0.0064 | -2.5 to 2.5 | Pass    |         |             |             |         |
|       | 846.5  | 25      | 0       | 20      | 3.6         | -6.008  | -0.0071 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         |         | 3.84        | -4.377  | -0.0052 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         |         | 4.3         | -5.965  | -0.0070 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | -30     | 3.84        | -9.141  | -0.0108 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | -20     | 3.84        | -10.815 | -0.0128 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | -10     | 3.84        | -6.495  | -0.0077 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 0       | 3.84        | -10.114 | -0.0119 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 10      | 3.84        | -9.613  | -0.0114 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 30      | 3.84        | -7.882  | -0.0093 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 40      | 3.84        | -9.642  | -0.0114 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 50      | 3.84        | -11.330 | -0.0134 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         | 64QAM   | 826.5       | 25      | 0       | 20          | 3.6         | -3.562  |
|       | 3.84   | -4.420  | -0.0053 |         |             |         |         |             | -2.5 to 2.5 | Pass    |
|       | 4.3    | -6.065  | -0.0073 |         |             |         |         |             | -2.5 to 2.5 | Pass    |
| -30   | 3.84   | -6.995  | -0.0085 |         |             |         |         | -2.5 to 2.5 | Pass        |         |
| -20   | 3.84   | -4.792  | -0.0058 |         |             |         |         | -2.5 to 2.5 | Pass        |         |
| -10   | 3.84   | -4.435  | -0.0054 |         |             |         |         | -2.5 to 2.5 | Pass        |         |
| 0     | 3.84   | -6.123  | -0.0074 |         |             |         |         | -2.5 to 2.5 | Pass        |         |
| 10    | 3.84   | -5.836  | -0.0071 |         |             |         |         | -2.5 to 2.5 | Pass        |         |
| 30    | 3.84   | -7.782  | -0.0094 |         |             |         |         | -2.5 to 2.5 | Pass        |         |
| 40    | 3.84   | -8.082  | -0.0098 |         |             |         |         | -2.5 to 2.5 | Pass        |         |
| 50    | 3.84   | -9.198  | -0.0111 |         |             |         |         | -2.5 to 2.5 | Pass        |         |
| 836.5 | 25     | 0       | 20      |         |             |         |         | 3.6         | -6.881      | -0.0082 |
|       |        |         |         |         | 3.84        | -5.393  | -0.0064 | -2.5 to 2.5 | Pass        |         |
|       |        |         |         |         | 4.3         | -6.695  | -0.0080 | -2.5 to 2.5 | Pass        |         |
|       |        |         | -30     |         | 3.84        | -3.734  | -0.0045 | -2.5 to 2.5 | Pass        |         |
|       |        |         | -20     |         | 3.84        | -4.220  | -0.0050 | -2.5 to 2.5 | Pass        |         |
|       |        |         | -10     |         | 3.84        | -3.161  | -0.0038 | -2.5 to 2.5 | Pass        |         |
|       |        |         | 0       |         | 3.84        | -6.094  | -0.0073 | -2.5 to 2.5 | Pass        |         |
|       |        |         | 10      |         | 3.84        | -4.535  | -0.0054 | -2.5 to 2.5 | Pass        |         |
|       |        |         | 30      |         | 3.84        | -6.952  | -0.0083 | -2.5 to 2.5 | Pass        |         |
|       |        |         | 40      |         | 3.84        | -8.354  | -0.0100 | -2.5 to 2.5 | Pass        |         |
|       |        |         | 50      |         | 3.84        | 0.014   | 0.0000  | -2.5 to 2.5 | Pass        |         |
|       |        |         | 846.5   |         | 25          | 0       | 20      | 3.6         | 10.386      | 0.0123  |
| 3.84  | -7.067 | -0.0083 |         |         |             |         |         | -2.5 to 2.5 | Pass        |         |



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Report No.: SZCR240200059401

Rev.: 01

Page: 18 of 144

|  |  |  |  |     |        |         |             |      |
|--|--|--|--|-----|--------|---------|-------------|------|
|  |  |  |  | 4.3 | -4.835 | -0.0057 | -2.5 to 2.5 | Pass |
|  |  |  |  | -30 | 3.84   | -8.526  | -0.0101     | Pass |
|  |  |  |  | -20 | 3.84   | -9.413  | -0.0111     | Pass |
|  |  |  |  | -10 | 3.84   | -1.245  | -0.0015     | Pass |
|  |  |  |  | 0   | 3.84   | -6.638  | -0.0078     | Pass |
|  |  |  |  | 10  | 3.84   | -10.099 | -0.0119     | Pass |
|  |  |  |  | 30  | 3.84   | -4.992  | -0.0059     | Pass |
|  |  |  |  | 40  | 3.84   | -7.167  | -0.0085     | Pass |
|  |  |  |  | 50  | 3.84   | -7.267  | -0.0086     | Pass |



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Report No.: SZCR240200059401

Rev.: 01

Page: 19 of 144

## 2.4 B5\_10MHz

### 2.4.1 Test Result

| 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         | 3.6           | -7.310           | -0.0088               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.84          | -6.380           | -0.0077               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.3           | -4.048           | -0.0049               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.84          | -8.698           | -0.0105               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.84          | -6.967           | -0.0084               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.84          | -7.796           | -0.0094               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.84          | -6.409           | -0.0077               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.84          | -6.509           | -0.0079               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.84          | -7.410           | -0.0089               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.84          | -9.942           | -0.0120               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.84          | -6.766           | -0.0082               | -2.5 to 2.5 | Pass    |
|                            | 836.5           | 50            | 0      | 20         | 3.6           | -6.180           | -0.0074               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.84          | -6.723           | -0.0080               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.3           | -8.426           | -0.0101               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.84          | -5.350           | -0.0064               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.84          | -7.052           | -0.0084               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.84          | -8.898           | -0.0106               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.84          | -7.296           | -0.0087               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.84          | -8.483           | -0.0101               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.84          | -6.909           | -0.0083               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.84          | -8.984           | -0.0107               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.84          | -7.539           | -0.0090               | -2.5 to 2.5 | Pass    |
|                            | 844             | 50            | 0      | 20         | 3.6           | -7.067           | -0.0084               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.84          | -8.340           | -0.0099               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.3           | -10.057          | -0.0119               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.84          | -7.753           | -0.0092               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.84          | -7.825           | -0.0093               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.84          | -7.010           | -0.0083               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.84          | -8.368           | -0.0099               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.84          | -8.426           | -0.0100               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 3.84          | -9.770           | -0.0116               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 3.84          | -9.027           | -0.0107               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 3.84          | -7.281           | -0.0086               | -2.5 to 2.5 | Pass    |
| 16QAM                      | 829             | 50            | 0      | 20         | 3.6           | -8.111           | -0.0098               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 3.84          | -8.426           | -0.0102               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 4.3           | -8.597           | -0.0104               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 3.84          | -5.879           | -0.0071               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 3.84          | -6.051           | -0.0073               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 3.84          | -8.955           | -0.0108               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 3.84          | -5.593           | -0.0067               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 3.84          | -1.702           | -0.0021               | -2.5 to 2.5 | Pass    |



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Report No.: SZCR240200059401

Rev.: 01

Page: 20 of 144

|       |       |        |         |         |             |         |             |             |             |         |
|-------|-------|--------|---------|---------|-------------|---------|-------------|-------------|-------------|---------|
|       | 836.5 | 50     | 0       | 30      | 3.84        | -9.699  | -0.0117     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         |         | 40          | 3.84    | -5.422      | -0.0065     | -2.5 to 2.5 | Pass    |
|       |       |        |         |         | 50          | 3.84    | -7.081      | -0.0085     | -2.5 to 2.5 | Pass    |
|       |       |        |         | 20      | 3.6         | -6.065  | -0.0073     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         |         | 3.84        | -6.251  | -0.0075     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         |         | 4.3         | -8.397  | -0.0100     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         |         | -30         | 3.84    | -10.543     | -0.0126     | -2.5 to 2.5 | Pass    |
|       |       |        |         |         | -20         | 3.84    | -7.324      | -0.0088     | -2.5 to 2.5 | Pass    |
|       |       |        |         |         | -10         | 3.84    | -7.811      | -0.0093     | -2.5 to 2.5 | Pass    |
|       |       |        |         |         | 0           | 3.84    | -4.220      | -0.0050     | -2.5 to 2.5 | Pass    |
|       |       |        |         |         | 10          | 3.84    | -6.938      | -0.0083     | -2.5 to 2.5 | Pass    |
|       |       |        |         |         | 30          | 3.84    | -12.617     | -0.0151     | -2.5 to 2.5 | Pass    |
|       | 40    | 3.84   | -3.762  | -0.0045 | -2.5 to 2.5 | Pass    |             |             |             |         |
|       | 50    | 3.84   | -6.580  | -0.0079 | -2.5 to 2.5 | Pass    |             |             |             |         |
|       | 844   | 50     | 0       | 20      | 3.6         | -3.405  | -0.0040     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         |         | 3.84        | -6.080  | -0.0072     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         |         | 4.3         | -4.191  | -0.0050     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | -30     | 3.84        | -5.851  | -0.0069     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | -20     | 3.84        | -5.879  | -0.0070     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | -10     | 3.84        | -11.601 | -0.0137     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | 0       | 3.84        | -8.740  | -0.0104     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | 10      | 3.84        | -8.726  | -0.0103     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | 30      | 3.84        | -4.263  | -0.0051     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | 40      | 3.84        | -6.566  | -0.0078     | -2.5 to 2.5 | Pass        |         |
| 50    |       |        |         | 3.84    | -6.351      | -0.0075 | -2.5 to 2.5 | Pass        |             |         |
| 64QAM |       |        |         | 829     | 50          | 0       | 20          | 3.6         | -7.553      | -0.0091 |
|       | 3.84  | -5.879 | -0.0071 |         |             |         |             | -2.5 to 2.5 | Pass        |         |
|       | 4.3   | -7.625 | -0.0092 |         |             |         |             | -2.5 to 2.5 | Pass        |         |
|       | -30   | 3.84   | -5.794  |         |             |         | -0.0070     | -2.5 to 2.5 | Pass        |         |
|       | -20   | 3.84   | -7.238  |         |             |         | -0.0087     | -2.5 to 2.5 | Pass        |         |
|       | -10   | 3.84   | -5.393  |         |             |         | -0.0065     | -2.5 to 2.5 | Pass        |         |
|       | 0     | 3.84   | -5.522  |         |             |         | -0.0067     | -2.5 to 2.5 | Pass        |         |
|       | 10    | 3.84   | -7.868  |         |             |         | -0.0095     | -2.5 to 2.5 | Pass        |         |
|       | 30    | 3.84   | -4.334  |         |             |         | -0.0052     | -2.5 to 2.5 | Pass        |         |
|       | 40    | 3.84   | -6.652  |         |             |         | -0.0080     | -2.5 to 2.5 | Pass        |         |
|       | 50    | 3.84   | -2.646  |         |             |         | -0.0032     | -2.5 to 2.5 | Pass        |         |
|       | 836.5 | 50     | 0       |         |             |         | 20          | 3.6         | -9.685      | -0.0116 |
|       |       |        |         | 3.84    | -4.148      | -0.0050 |             | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | 4.3     | -7.267      | -0.0087 |             | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | -30     | 3.84        | -6.351  | -0.0076     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | -20     | 3.84        | -10.228 | -0.0122     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | -10     | 3.84        | -2.604  | -0.0031     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | 0       | 3.84        | -8.912  | -0.0107     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | 10      | 3.84        | -6.123  | -0.0073     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | 30      | 3.84        | -7.353  | -0.0088     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | 40      | 3.84        | -0.973  | -0.0012     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | 50      | 3.84        | -8.025  | -0.0096     | -2.5 to 2.5 | Pass        |         |
|       |       |        |         | 844     | 50          | 0       | 20          | 3.6         | -8.368      | -0.0099 |
|       | 3.84  | -5.779 | -0.0068 |         |             |         |             | -2.5 to 2.5 | Pass        |         |



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Report No.: SZCR240200059401

Rev.: 01

Page: 21 of 144

|  |  |  |  |     |        |         |             |      |
|--|--|--|--|-----|--------|---------|-------------|------|
|  |  |  |  | 4.3 | -5.651 | -0.0067 | -2.5 to 2.5 | Pass |
|  |  |  |  | -30 | 3.84   | -5.078  | -2.5 to 2.5 | Pass |
|  |  |  |  | -20 | 3.84   | -2.475  | -2.5 to 2.5 | Pass |
|  |  |  |  | -10 | 3.84   | -4.220  | -2.5 to 2.5 | Pass |
|  |  |  |  | 0   | 3.84   | -7.725  | -2.5 to 2.5 | Pass |
|  |  |  |  | 10  | 3.84   | -4.077  | -2.5 to 2.5 | Pass |
|  |  |  |  | 30  | 3.84   | -6.852  | -2.5 to 2.5 | Pass |
|  |  |  |  | 40  | 3.84   | -3.834  | -2.5 to 2.5 | Pass |
|  |  |  |  | 50  | 3.84   | -6.151  | -2.5 to 2.5 | Pass |



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Report No.: SZCR240200059401  
Rev.: 01  
Page: 22 of 144

## 3. Field Strength of Spurious Radiation

Test Band = Band 5 \_ TM1  
Test Channel = low

| Freq (MHz) | LISN_Factor (dB) | Cable_Loss (dB) | Preamp_Gain (dB) | Read_Level (dBm) | Level (dBm) | Limit_Line (dBm) | Over -13DBM | Polarity   |
|------------|------------------|-----------------|------------------|------------------|-------------|------------------|-------------|------------|
| 1649       | 26.31            | 4.27            | 38.41            | -60.57           | -58.28      | -13              | -45.28      | Horizontal |
| 2473.5     | 28.9             | 5.15            | 37.24            | -60.38           | -52.68      | -13              | -39.68      | Horizontal |
| 3298       | 31.24            | 5.98            | 36.13            | -61.79           | -49.34      | -13              | -36.34      | Horizontal |
| Freq (MHz) | LISN_Factor (dB) | Cable_Loss (dB) | Preamp_Gain (dB) | Read_Level (dBm) | Level (dBm) | Limit_Line (dBm) | Over -13DBM | Polarity   |
| 1649       | 26.31            | 4.27            | 38.41            | -60.48           | -58.19      | -13              | -45.19      | Vertical   |
| 2473.5     | 28.9             | 5.15            | 37.24            | -60.16           | -52.46      | -13              | -39.46      | Vertical   |
| 3298       | 31.24            | 5.98            | 36.13            | -61.9            | -49.45      | -13              | -36.45      | Vertical   |



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Report No.: SZCR240200059401

Rev.: 01

Page: 23 of 144

**Test Band = Band 5 \_ TM1****Test Channel = mid**

| Freq (MHz) | LISN_Factor (dB) | Cable_Loss (dB) | Preamp_Gain (dB) | Read_Level (dBm) | Level (dBm) | Limit_Line (dBm) | Over -13DBM | Polarity   |
|------------|------------------|-----------------|------------------|------------------|-------------|------------------|-------------|------------|
| 1664       | 26.27            | 4.28            | 38.41            | -60.27           | -58         | -13              | -45         | Horizontal |
| 2496       | 28.9             | 5.17            | 37.19            | -60.55           | -53.07      | -13              | -40.07      | Horizontal |
| 3328       | 31.7             | 6.01            | 36.13            | -61.69           | -48.77      | -13              | -35.77      | Horizontal |
| Freq (MHz) | LISN_Factor (dB) | Cable_Loss (dB) | Preamp_Gain (dB) | Read_Level (dBm) | Level (dBm) | Limit_Line (dBm) | Over -13DBM | Polarity   |
| 1664       | 26.27            | 4.28            | 38.41            | -60.91           | -58.64      | -13              | -45.64      | Vertical   |
| 2496       | 28.9             | 5.17            | 37.19            | -60.53           | -53.05      | -13              | -40.05      | Vertical   |
| 3328       | 31.7             | 6.01            | 36.13            | -61.38           | -48.46      | -13              | -35.46      | Vertical   |



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Report No.: SZCR240200059401  
Rev.: 01  
Page: 24 of 144

**Test Band = Band 5 \_ TM1**  
**Test Channel = high**

| Freq (MHz) | LISN_Factor (dB) | Cable_Loss (dB) | Preamplifier_Gain (dB) | Read_Level (dBm) | Level (dBm) | Limit_Line (dBm) | Over -13DBM | Polarity   |
|------------|------------------|-----------------|------------------------|------------------|-------------|------------------|-------------|------------|
| 1679       | 26.24            | 4.3             | 38.41                  | -60.53           | -58.25      | -13              | -45.25      | Horizontal |
| 2518.5     | 29.05            | 5.19            | 37.14                  | -60.85           | -53.29      | -13              | -40.29      | Horizontal |
| 3358       | 32.15            | 6.05            | 36.12                  | -61.38           | -47.97      | -13              | -34.97      | Horizontal |
| Freq (MHz) | LISN_Factor (dB) | Cable_Loss (dB) | Preamplifier_Gain (dB) | Read_Level (dBm) | Level (dBm) | Limit_Line (dBm) | Over -13DBM | Polarity   |
| 1679       | 26.24            | 4.3             | 38.41                  | -60.57           | -58.29      | -13              | -45.29      | Vertical   |
| 2518.5     | 29.05            | 5.19            | 37.14                  | -59.29           | -51.73      | -13              | -38.73      | Vertical   |
| 3358       | 32.15            | 6.05            | 36.12                  | -61.34           | -47.93      | -13              | -34.93      | Vertical   |

Remark:

1) All antennas of RSE are tested, and only the worst data is presented.



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Report No.: SZCR240200059401

Rev.: 01

Page: 25 of 144

## 4. 99% & 26dB Bandwidth

### 4.1 Band5\_OBW

#### 4.1.1 Test Result

| 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      | 1.110                        | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.113                        | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.113                        | /     | Pass    |
|                 | 16QAM      | 824.7           | 6             | 0      | 1.103                        | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.105                        | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.113                        | /     | Pass    |
|                 | 64QAM      | 824.7           | 6             | 0      | 1.117                        | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.113                        | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.109                        | /     | Pass    |
| 3               | QPSK       | 825.5           | 15            | 0      | 2.725                        | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.728                        | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 2.733                        | /     | Pass    |
|                 | 16QAM      | 825.5           | 15            | 0      | 2.727                        | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.724                        | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 2.721                        | /     | Pass    |
|                 | 64QAM      | 825.5           | 15            | 0      | 2.731                        | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.726                        | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 2.724                        | /     | Pass    |
| 5               | QPSK       | 826.5           | 25            | 0      | 4.544                        | /     | Pass    |
|                 |            | 836.5           | 25            | 0      | 4.538                        | /     | Pass    |
|                 |            | 846.5           | 25            | 0      | 4.533                        | /     | Pass    |
|                 | 16QAM      | 826.5           | 25            | 0      | 4.531                        | /     | Pass    |
|                 |            | 836.5           | 25            | 0      | 4.553                        | /     | Pass    |
|                 |            | 846.5           | 25            | 0      | 4.536                        | /     | Pass    |
|                 | 64QAM      | 826.5           | 25            | 0      | 4.527                        | /     | Pass    |
|                 |            | 836.5           | 25            | 0      | 4.536                        | /     | Pass    |
|                 |            | 846.5           | 25            | 0      | 4.548                        | /     | Pass    |
| 10              | QPSK       | 829             | 50            | 0      | 9.036                        | /     | Pass    |
|                 |            | 836.5           | 50            | 0      | 9.072                        | /     | Pass    |
|                 |            | 844             | 50            | 0      | 9.062                        | /     | Pass    |
|                 | 16QAM      | 829             | 50            | 0      | 9.048                        | /     | Pass    |
|                 |            | 836.5           | 50            | 0      | 9.045                        | /     | Pass    |
|                 |            | 844             | 50            | 0      | 9.054                        | /     | Pass    |
|                 | 64QAM      | 829             | 50            | 0      | 9.052                        | /     | Pass    |
|                 |            | 836.5           | 50            | 0      | 9.077                        | /     | Pass    |
|                 |            | 844             | 50            | 0      | 9.086                        | /     | Pass    |



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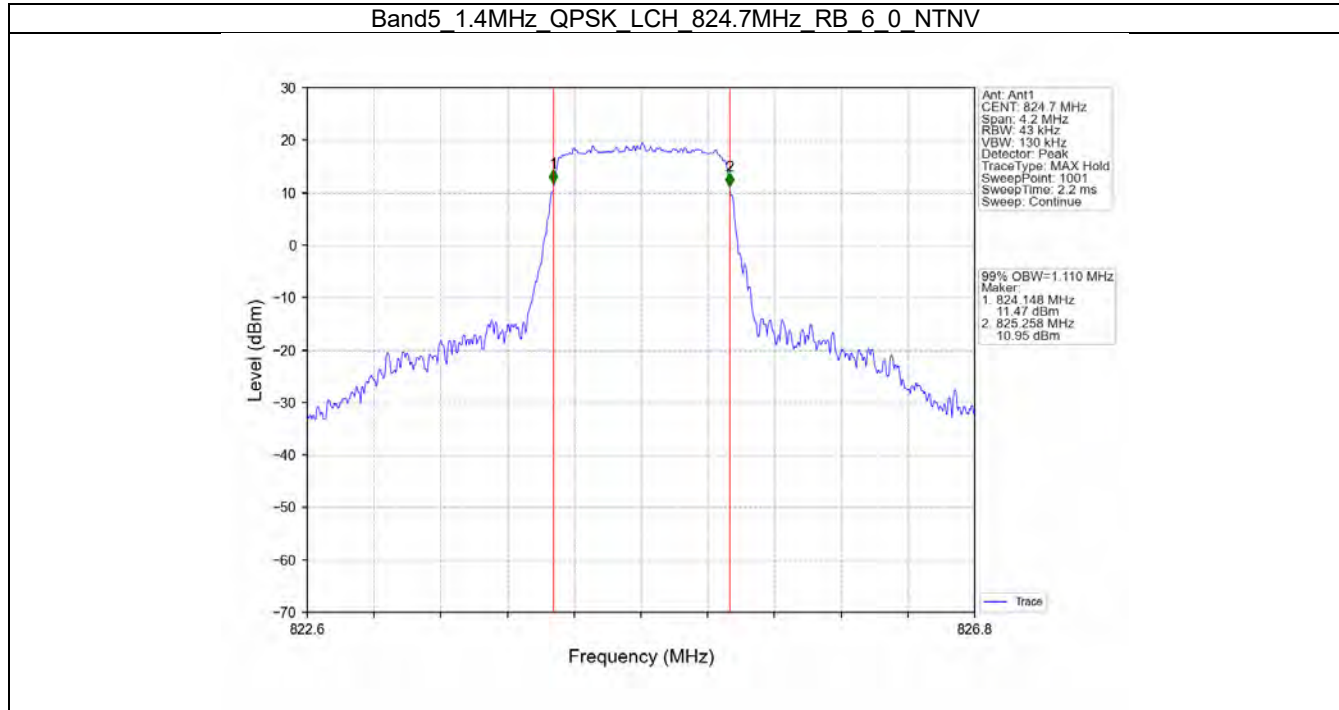
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Report No.: SZCR240200059401

Rev.: 01

Page: 26 of 144

## 4.1.2 Test Graph



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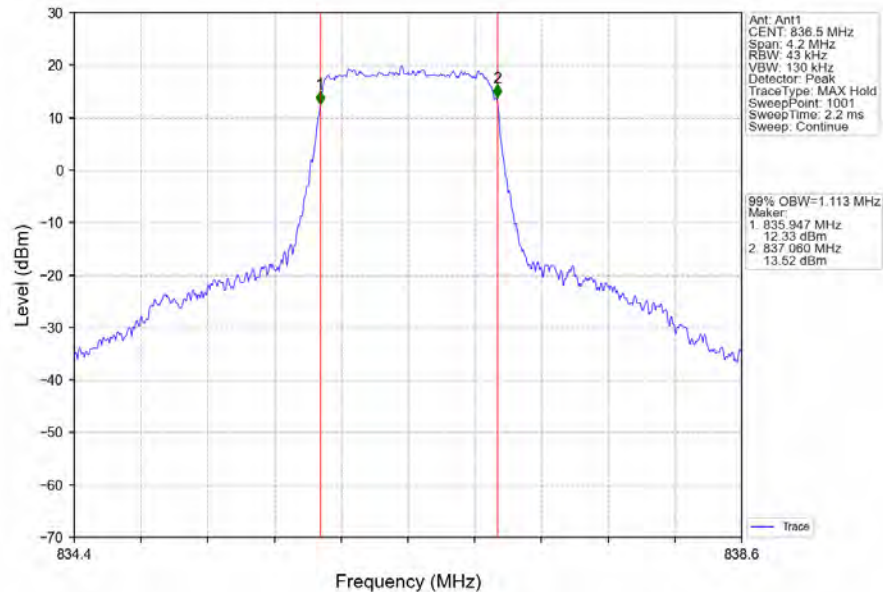
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Report No.: SZCR240200059401

Rev.: 01

Page: 27 of 144

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



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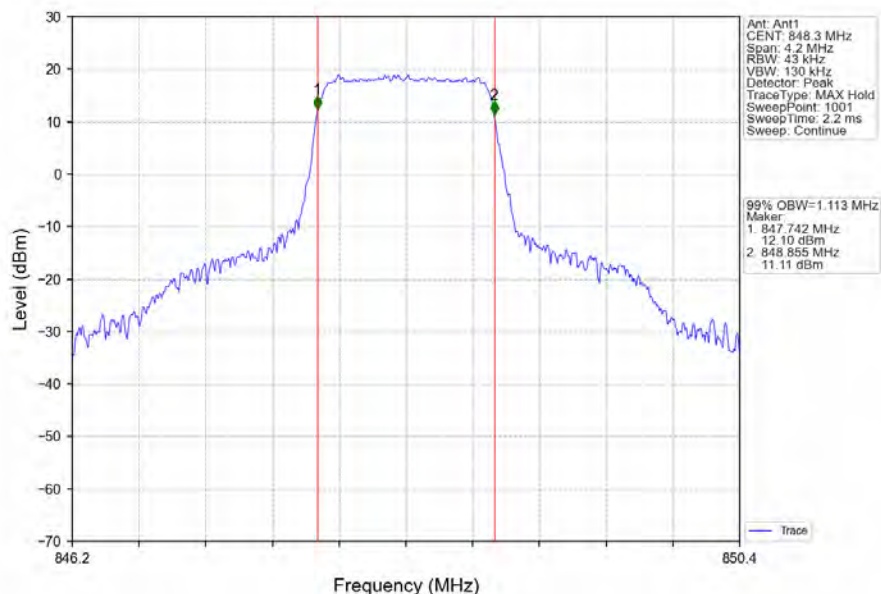
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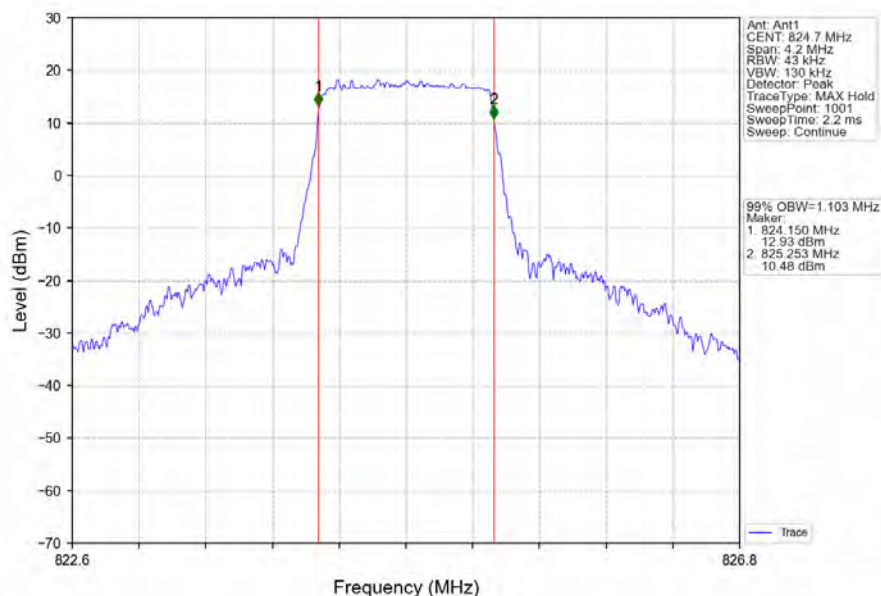
Rev.: 01

Page: 28 of 144

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



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



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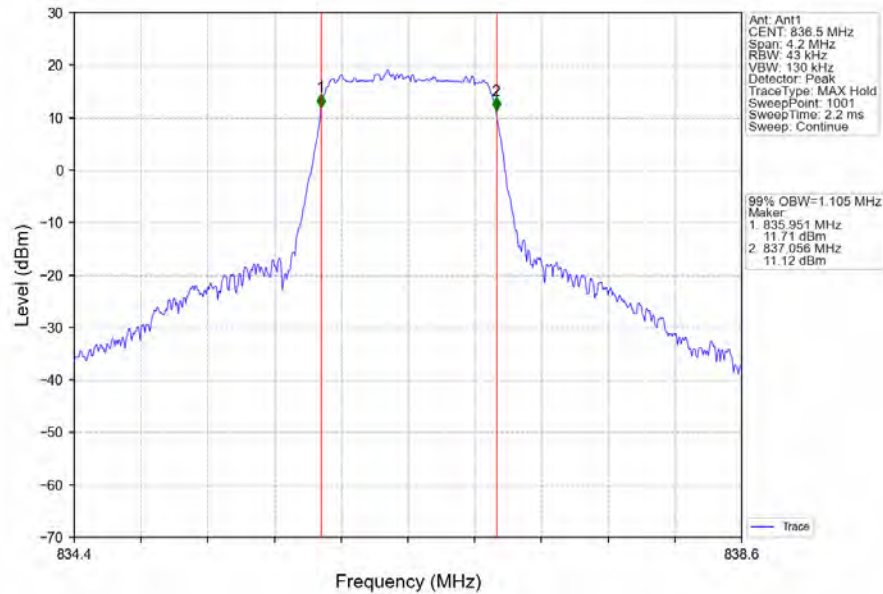
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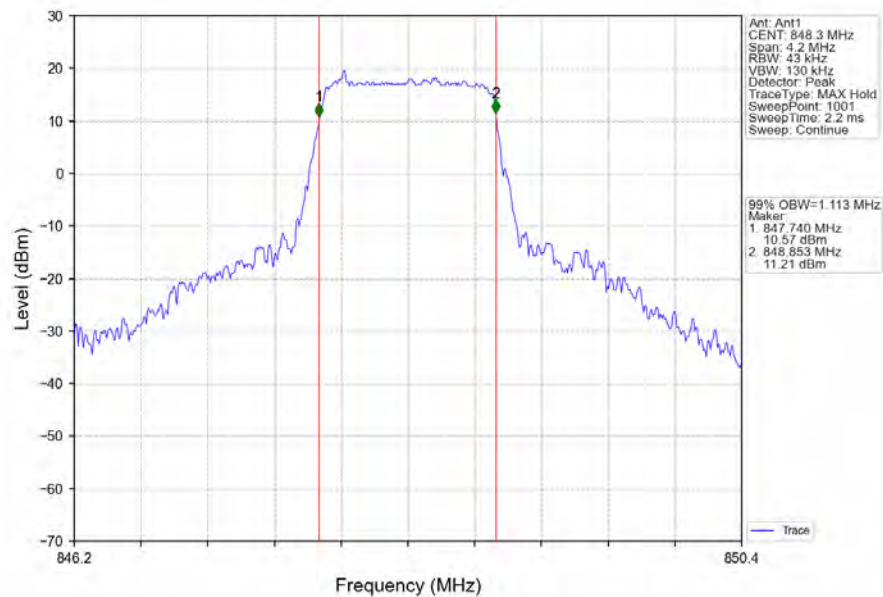
Rev.: 01

Page: 29 of 144

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



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



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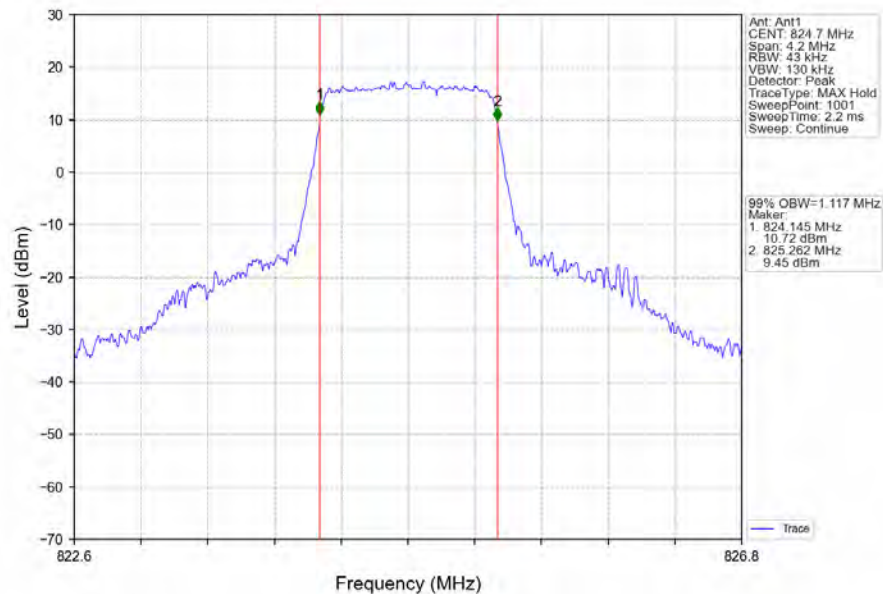
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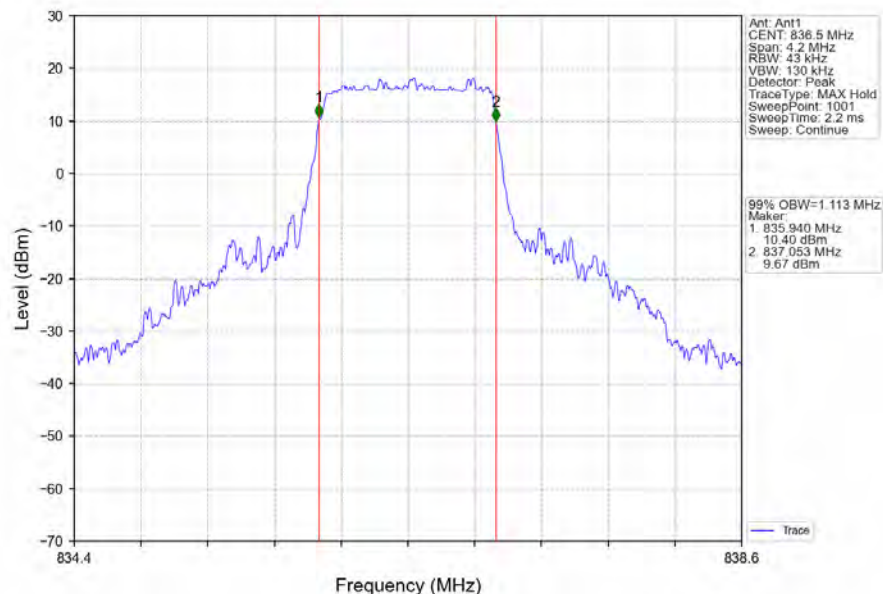
Rev.: 01

Page: 30 of 144

Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_64QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



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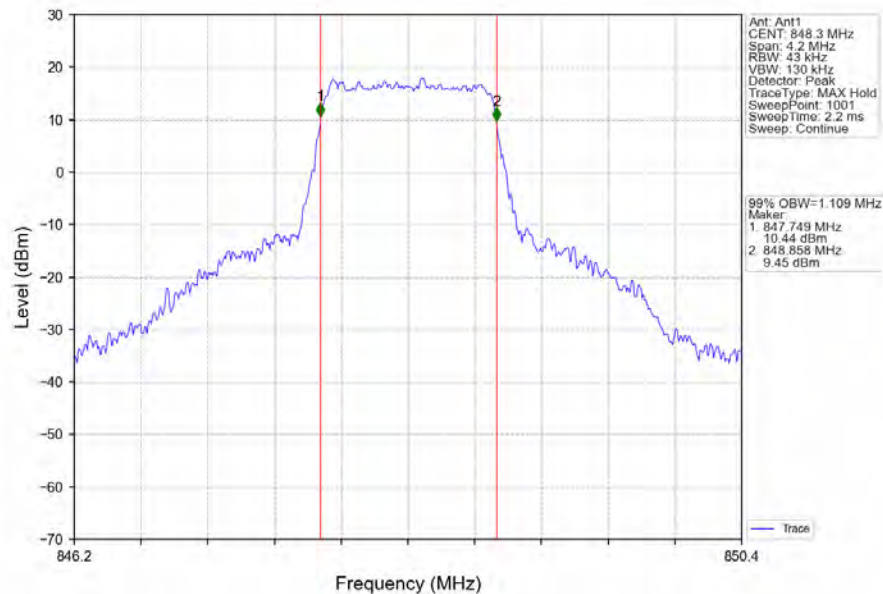
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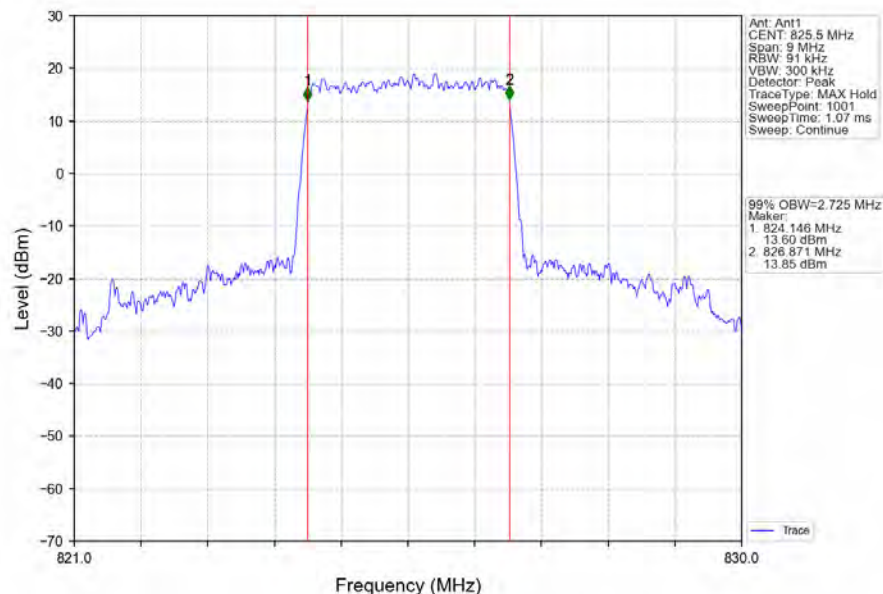
Rev.: 01

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Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



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



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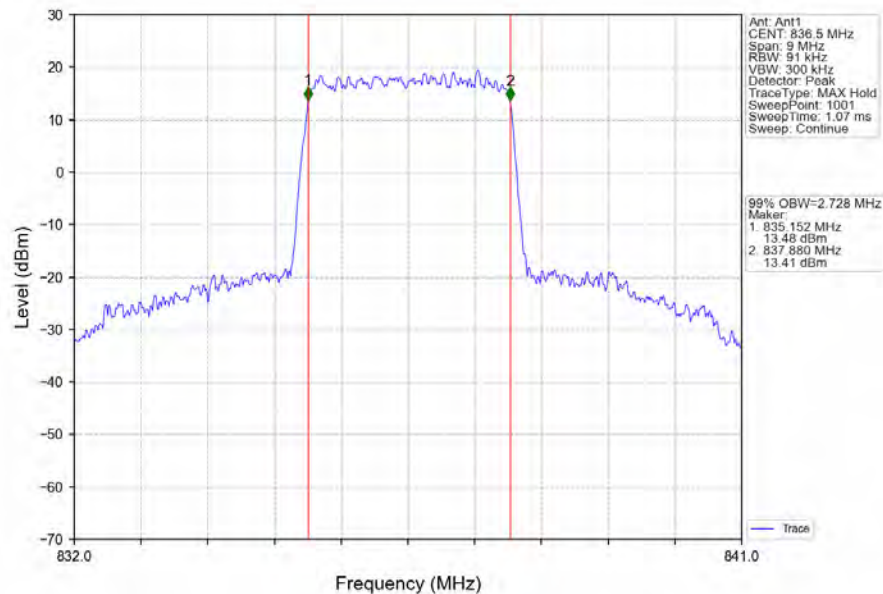
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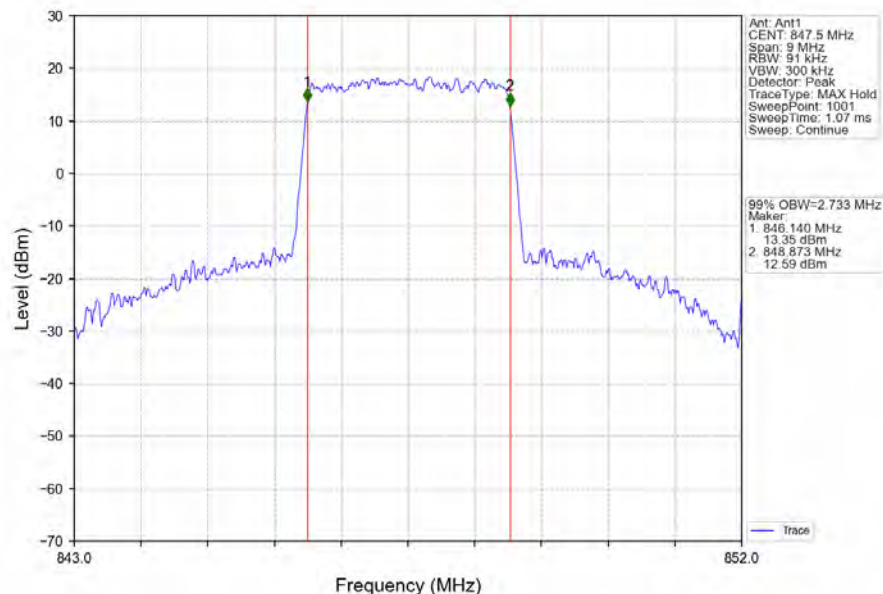
Rev.: 01

Page: 32 of 144

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



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



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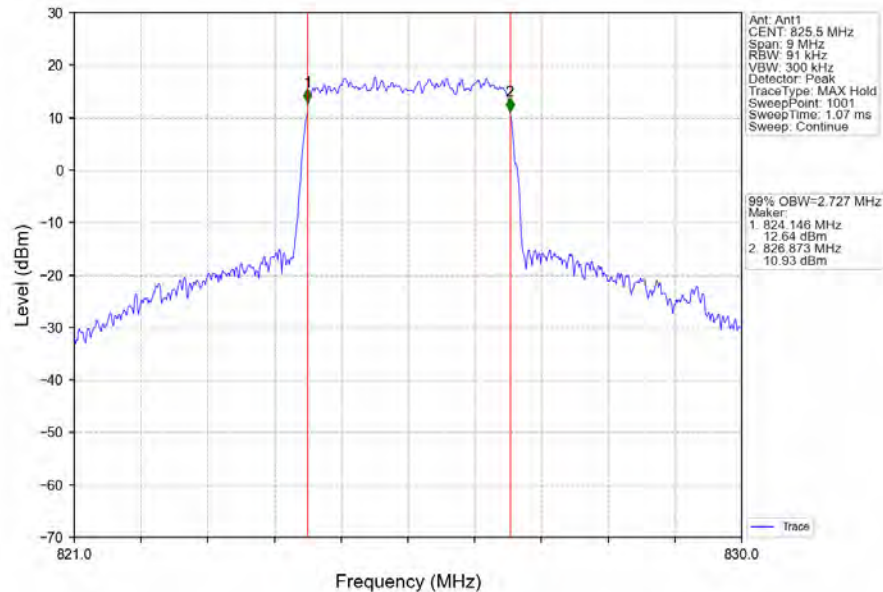
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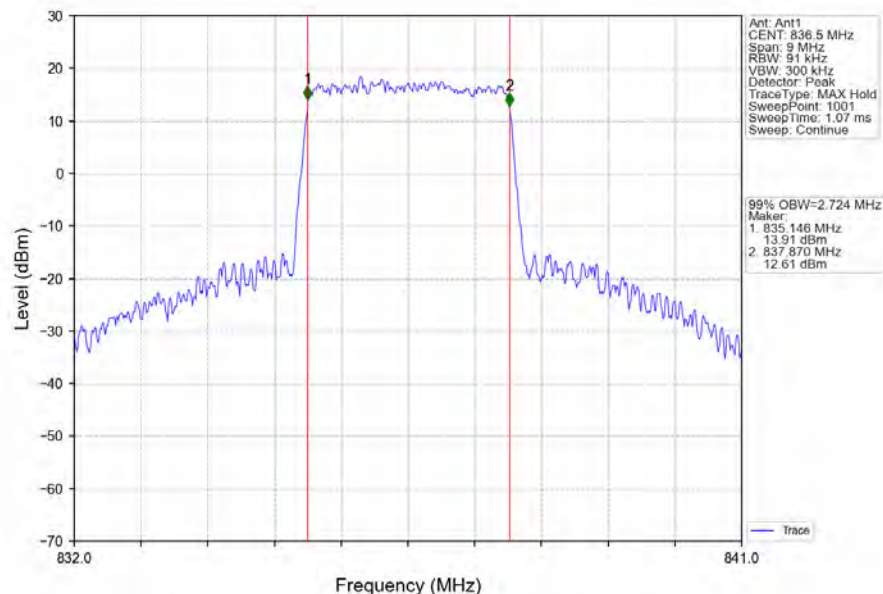
Rev.: 01

Page: 33 of 144

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



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



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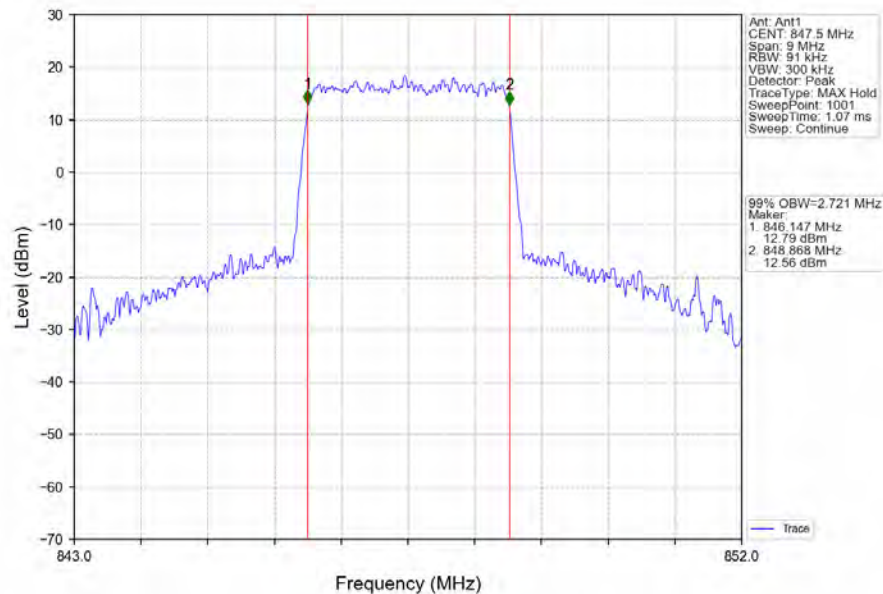
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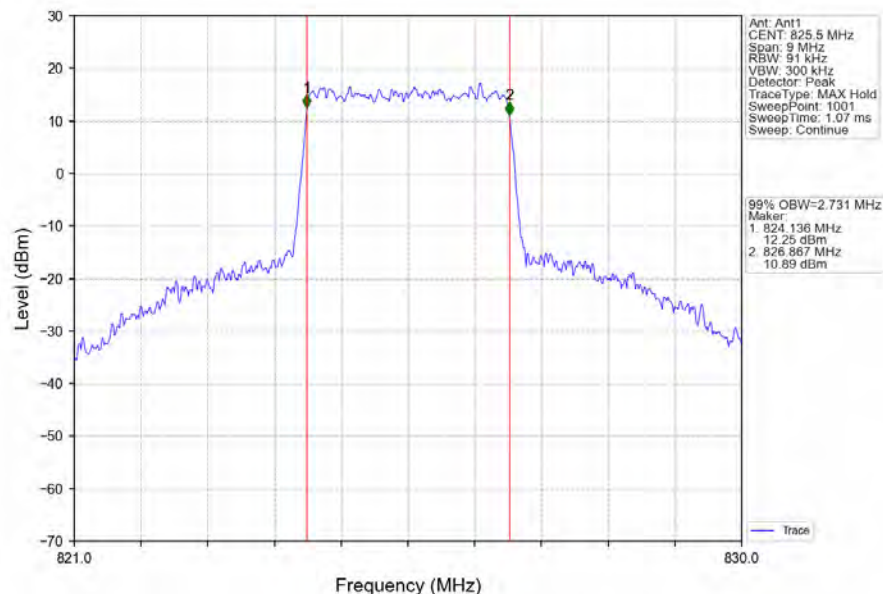
Rev.: 01

Page: 34 of 144

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



Band5\_3MHz\_64QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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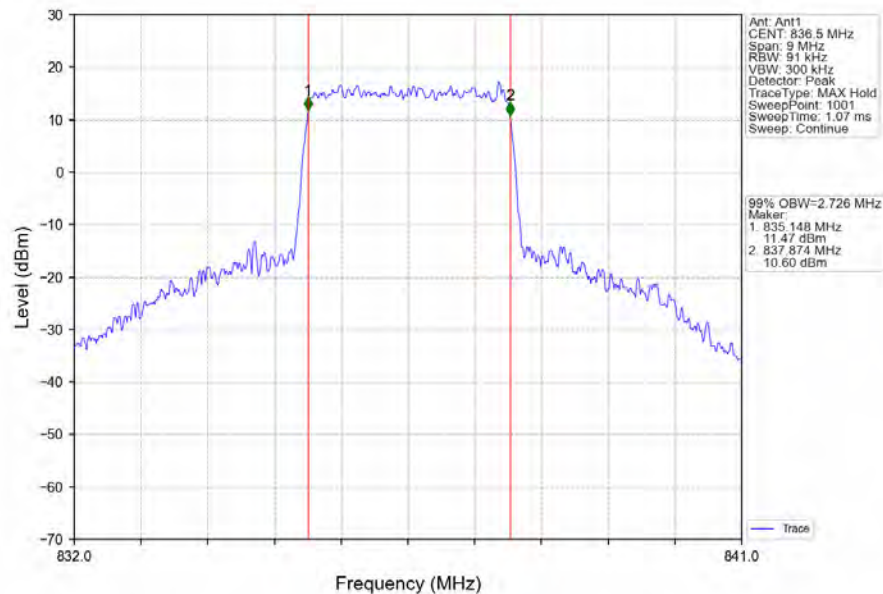
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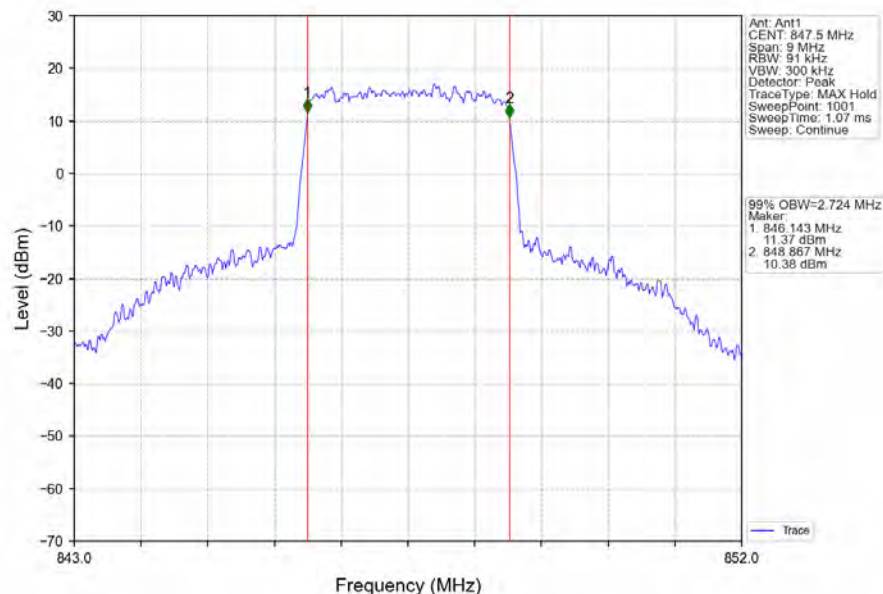
Rev.: 01

Page: 35 of 144

Band5\_3MHz\_64QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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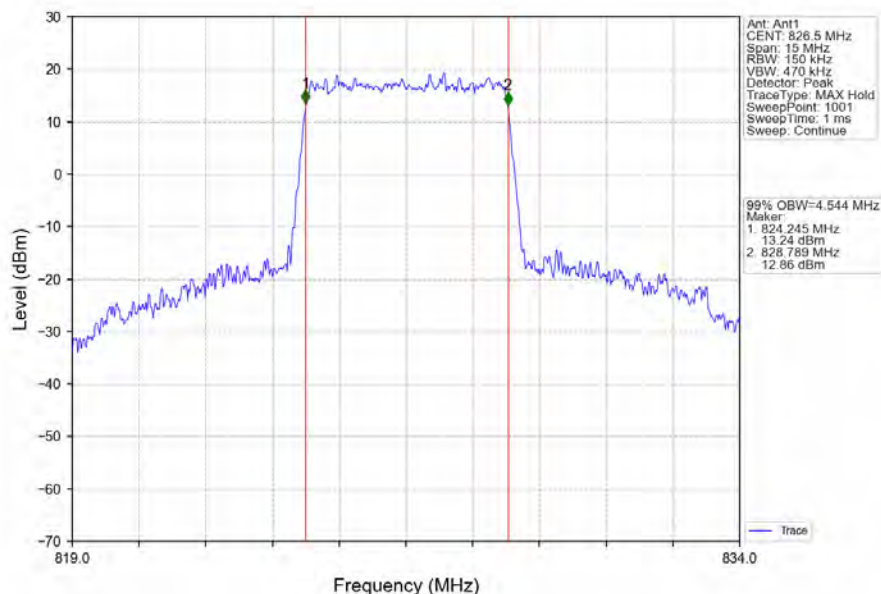
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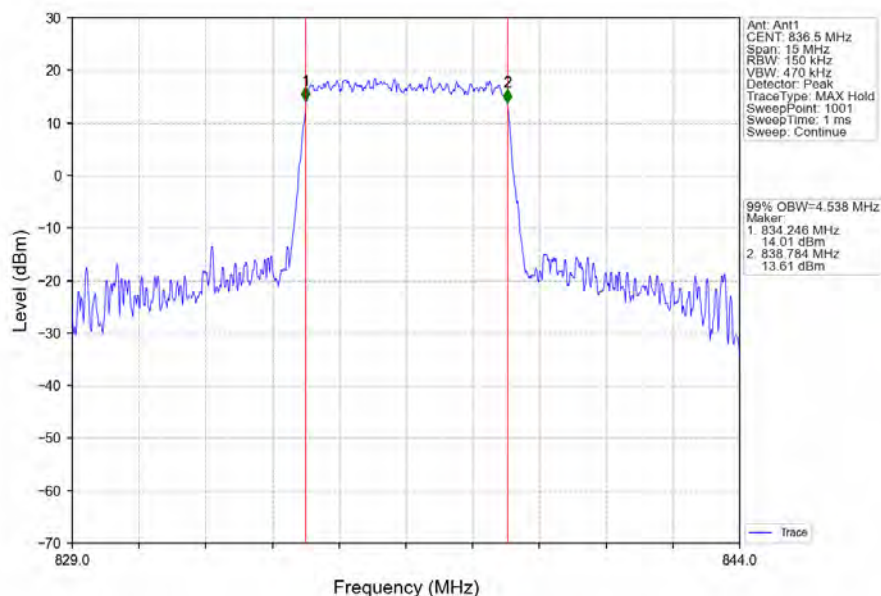
Rev.: 01

Page: 36 of 144

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



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



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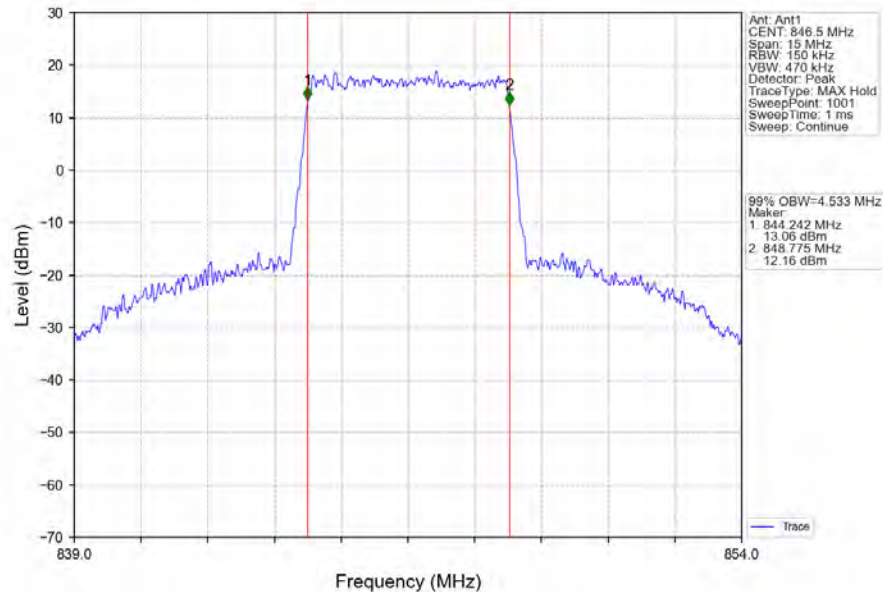
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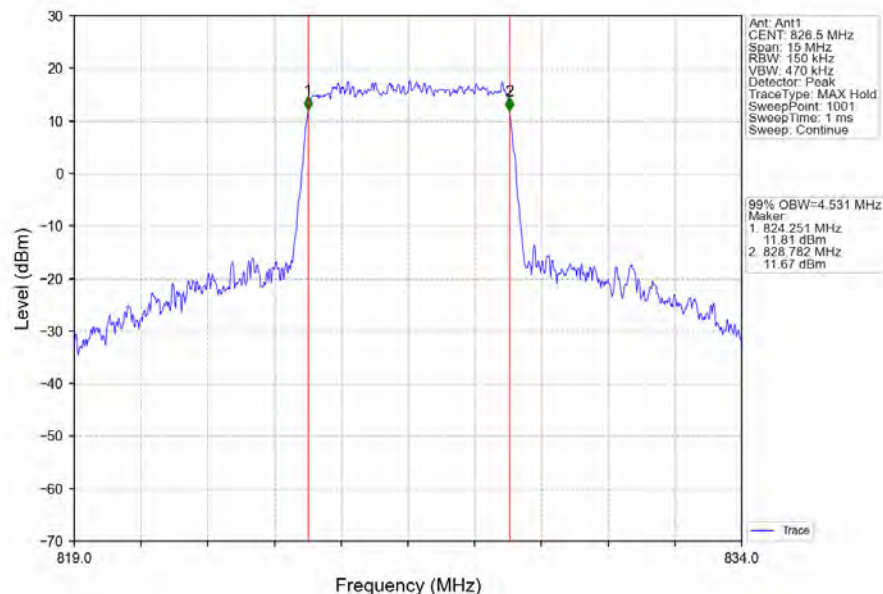
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Page: 37 of 144

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



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



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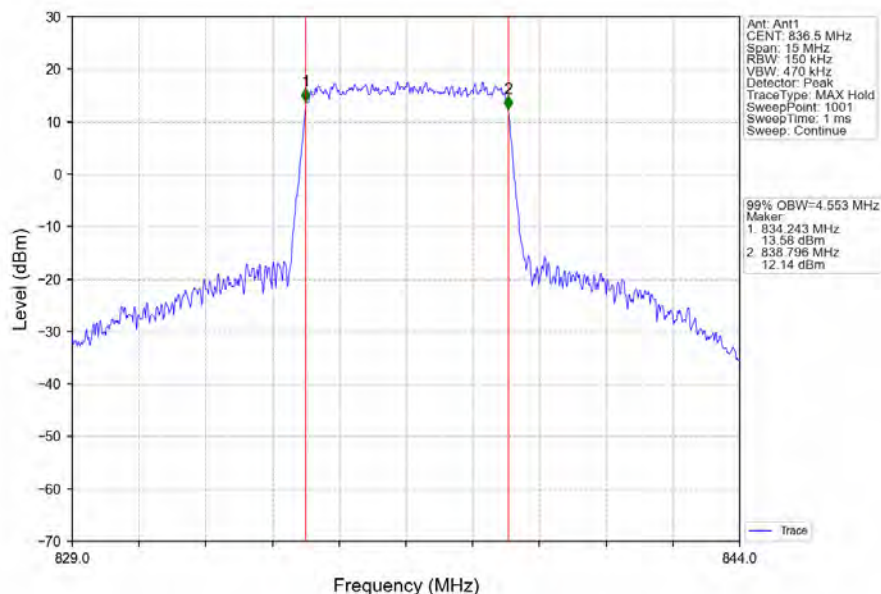
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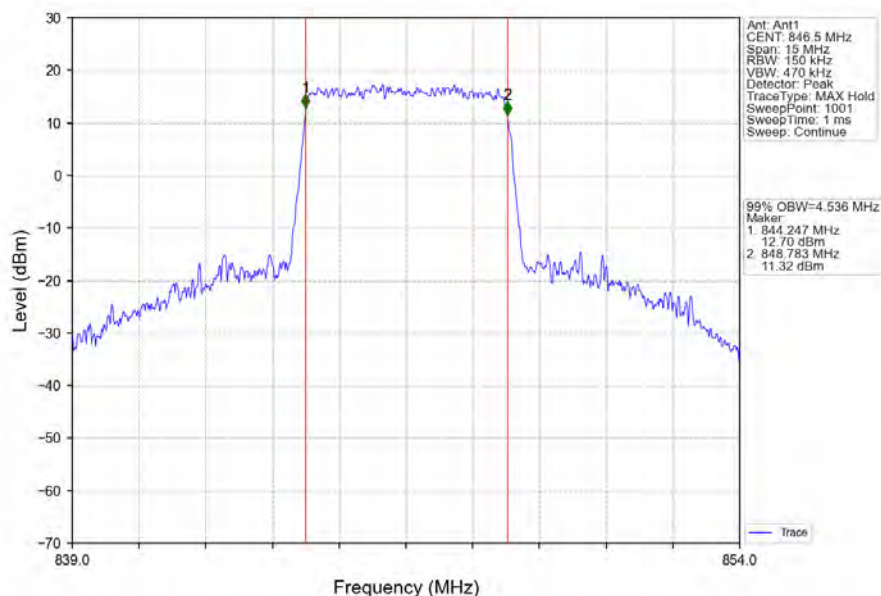
Rev.: 01

Page: 38 of 144

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



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



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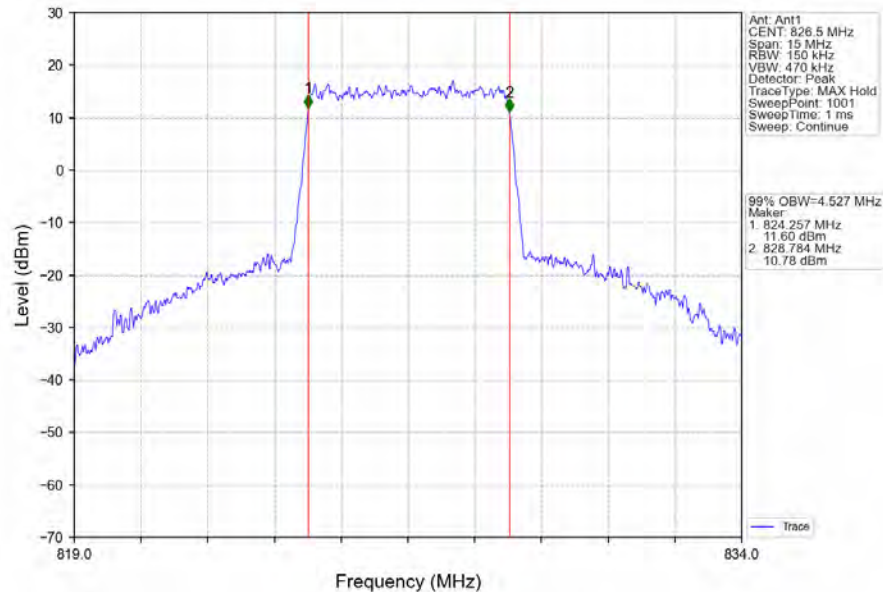
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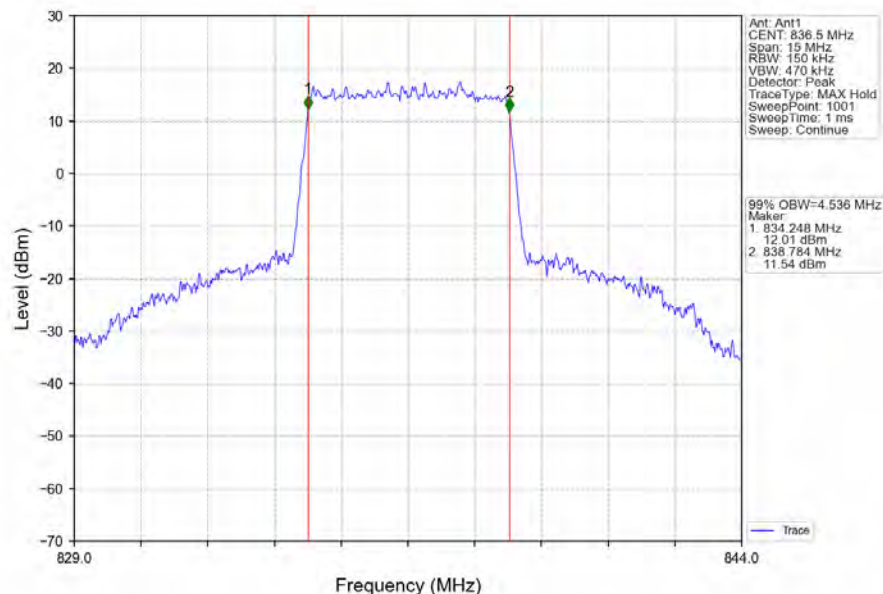
Rev.: 01

Page: 39 of 144

Band5\_5MHz\_64QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_64QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



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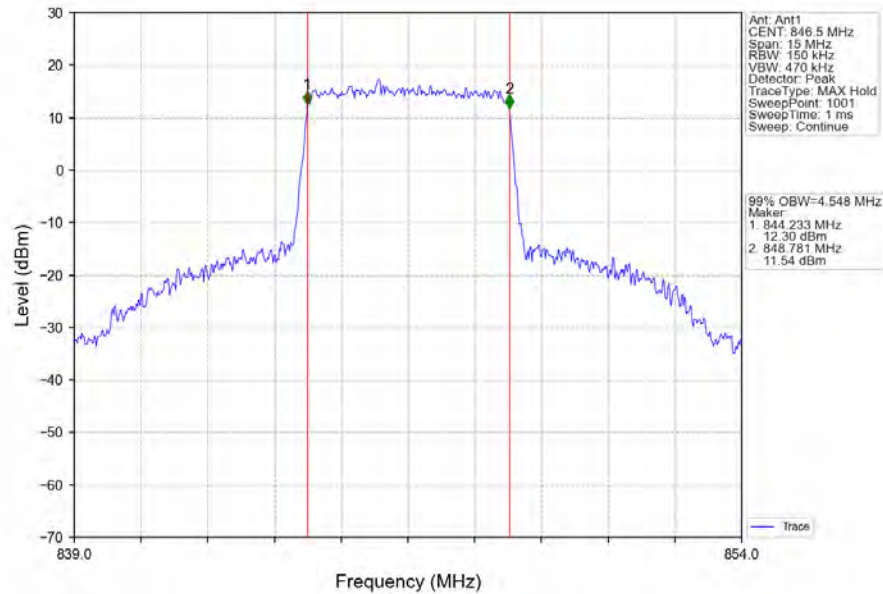
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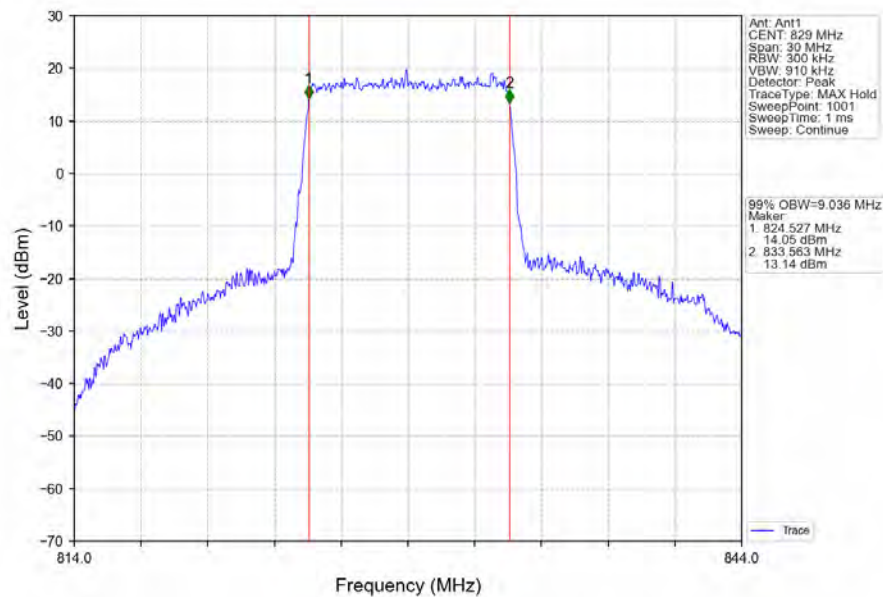
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Page: 40 of 144

Band5\_5MHz\_64QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



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



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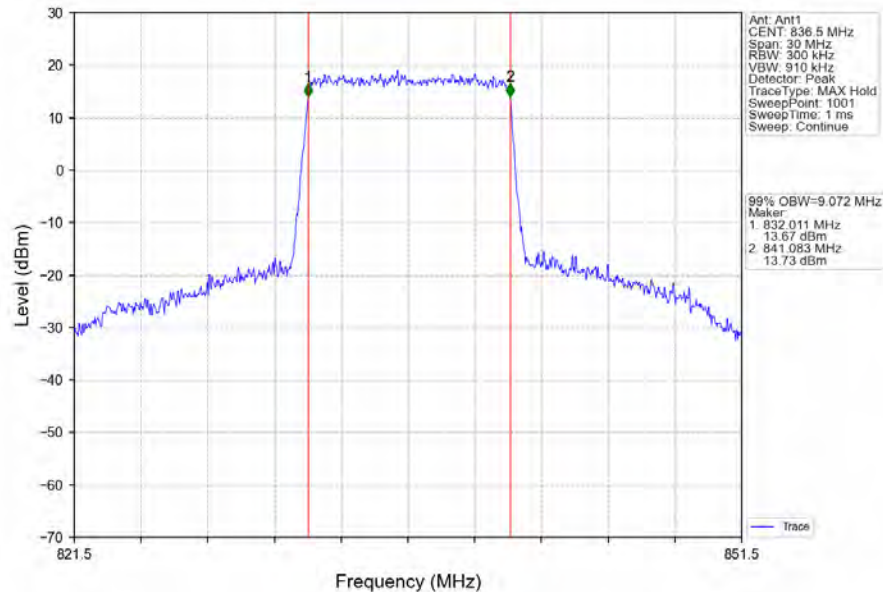
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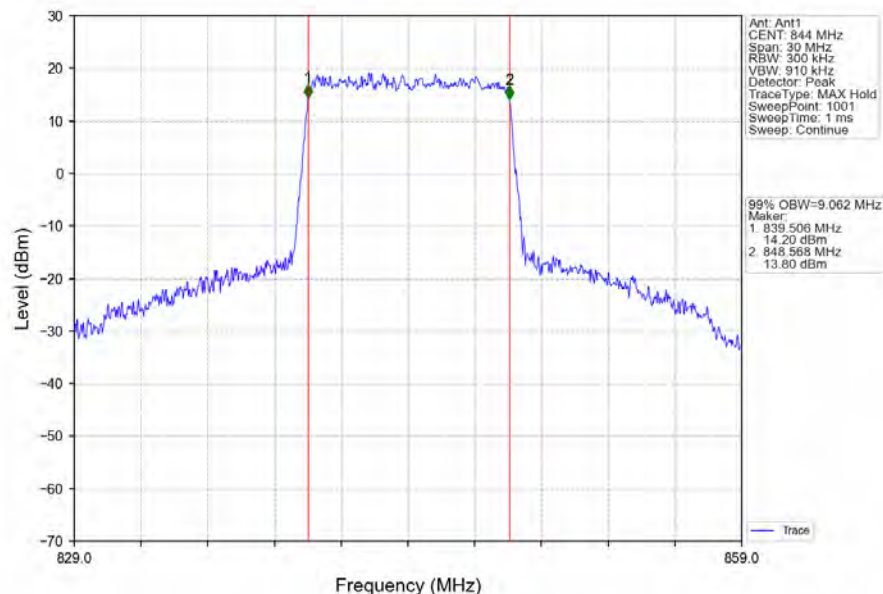
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Page: 41 of 144

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



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



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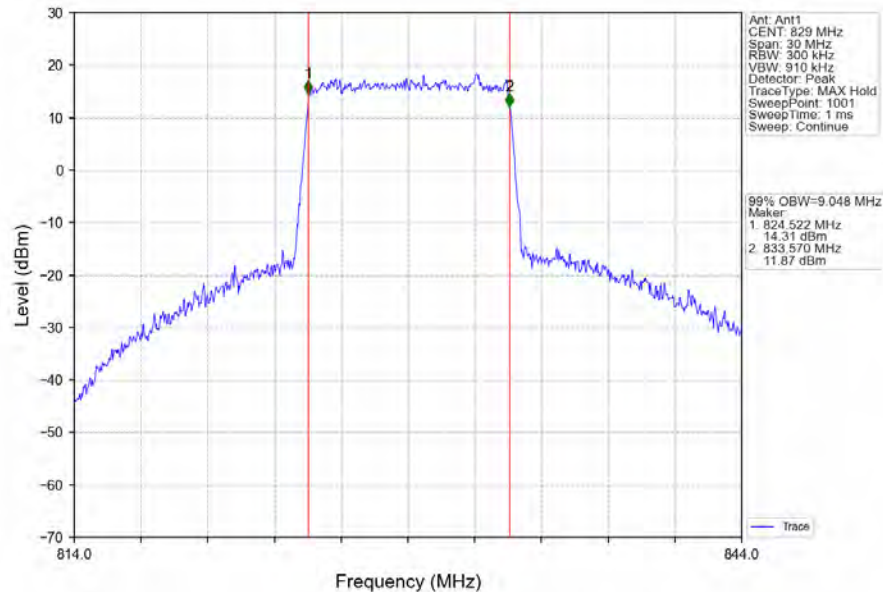
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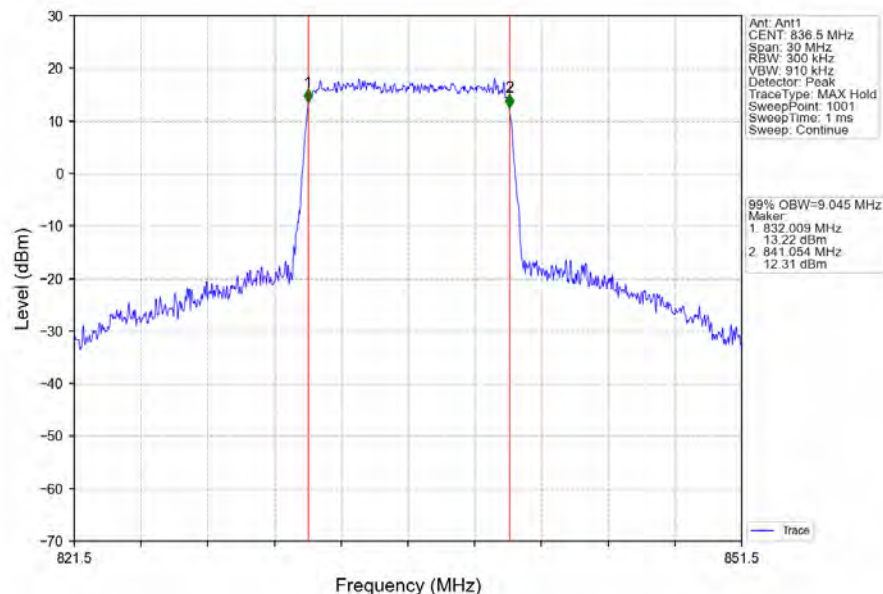
Rev.: 01

Page: 42 of 144

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



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



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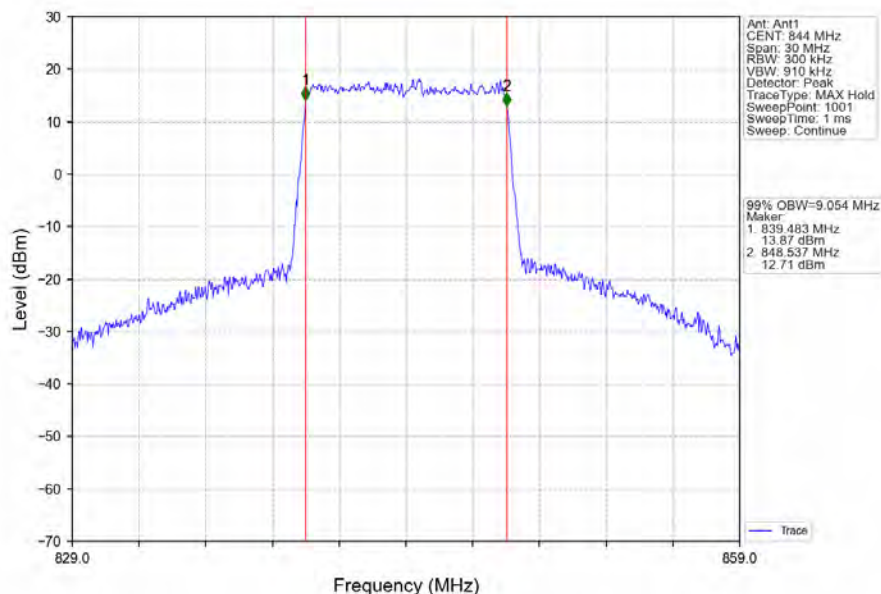
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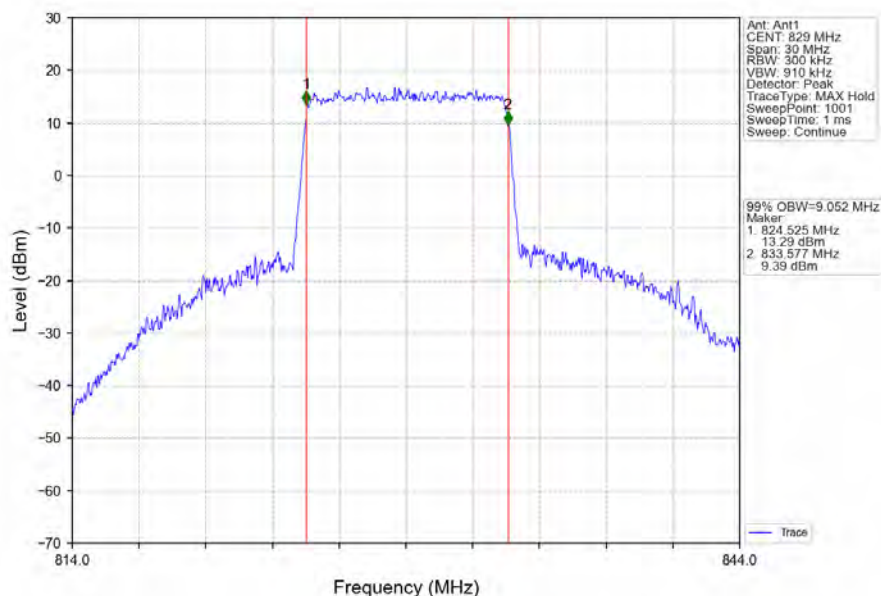
Rev.: 01

Page: 43 of 144

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



Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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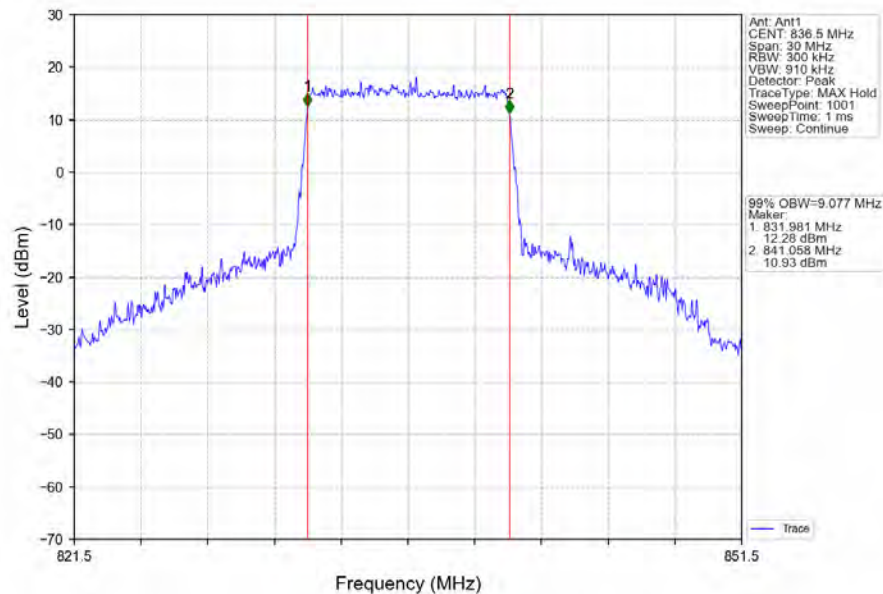
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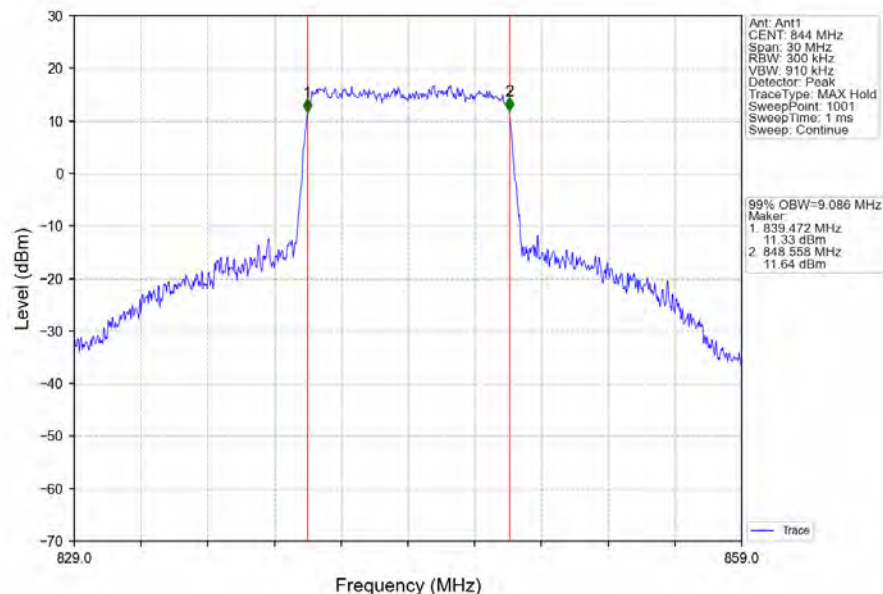
Rev.: 01

Page: 44 of 144

Band5\_10MHz\_64QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_64QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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Report No.: SZCR240200059401

Rev.: 01

Page: 45 of 144

## 4.2 Band5\_XDB

### 4.2.1 Test Result

| 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      | 1.321                | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.306                | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.321                | /     | Pass    |
|                 | 16QAM      | 824.7           | 6             | 0      | 1.305                | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.305                | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.319                | /     | Pass    |
|                 | 64QAM      | 824.7           | 6             | 0      | 1.325                | /     | Pass    |
|                 |            | 836.5           | 6             | 0      | 1.317                | /     | Pass    |
|                 |            | 848.3           | 6             | 0      | 1.343                | /     | Pass    |
| 3               | QPSK       | 825.5           | 15            | 0      | 2.983                | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 3.001                | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 2.997                | /     | Pass    |
|                 | 16QAM      | 825.5           | 15            | 0      | 3.000                | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.991                | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 2.991                | /     | Pass    |
|                 | 64QAM      | 825.5           | 15            | 0      | 2.997                | /     | Pass    |
|                 |            | 836.5           | 15            | 0      | 2.991                | /     | Pass    |
|                 |            | 847.5           | 15            | 0      | 2.998                | /     | Pass    |
| 5               | QPSK       | 826.5           | 25            | 0      | 5.016                | /     | Pass    |
|                 |            | 836.5           | 25            | 0      | 5.027                | /     | Pass    |
|                 |            | 846.5           | 25            | 0      | 5.024                | /     | Pass    |
|                 | 16QAM      | 826.5           | 25            | 0      | 5.006                | /     | Pass    |
|                 |            | 836.5           | 25            | 0      | 5.046                | /     | Pass    |
|                 |            | 846.5           | 25            | 0      | 5.024                | /     | Pass    |
|                 | 64QAM      | 826.5           | 25            | 0      | 5.002                | /     | Pass    |
|                 |            | 836.5           | 25            | 0      | 5.018                | /     | Pass    |
|                 |            | 846.5           | 25            | 0      | 4.980                | /     | Pass    |
| 10              | QPSK       | 829             | 50            | 0      | 9.864                | /     | Pass    |
|                 |            | 836.5           | 50            | 0      | 9.919                | /     | Pass    |
|                 |            | 844             | 50            | 0      | 9.979                | /     | Pass    |
|                 | 16QAM      | 829             | 50            | 0      | 9.931                | /     | Pass    |
|                 |            | 836.5           | 50            | 0      | 9.910                | /     | Pass    |
|                 |            | 844             | 50            | 0      | 9.945                | /     | Pass    |
|                 | 64QAM      | 829             | 50            | 0      | 9.906                | /     | Pass    |
|                 |            | 836.5           | 50            | 0      | 9.909                | /     | Pass    |
|                 |            | 844             | 50            | 0      | 9.972                | /     | Pass    |



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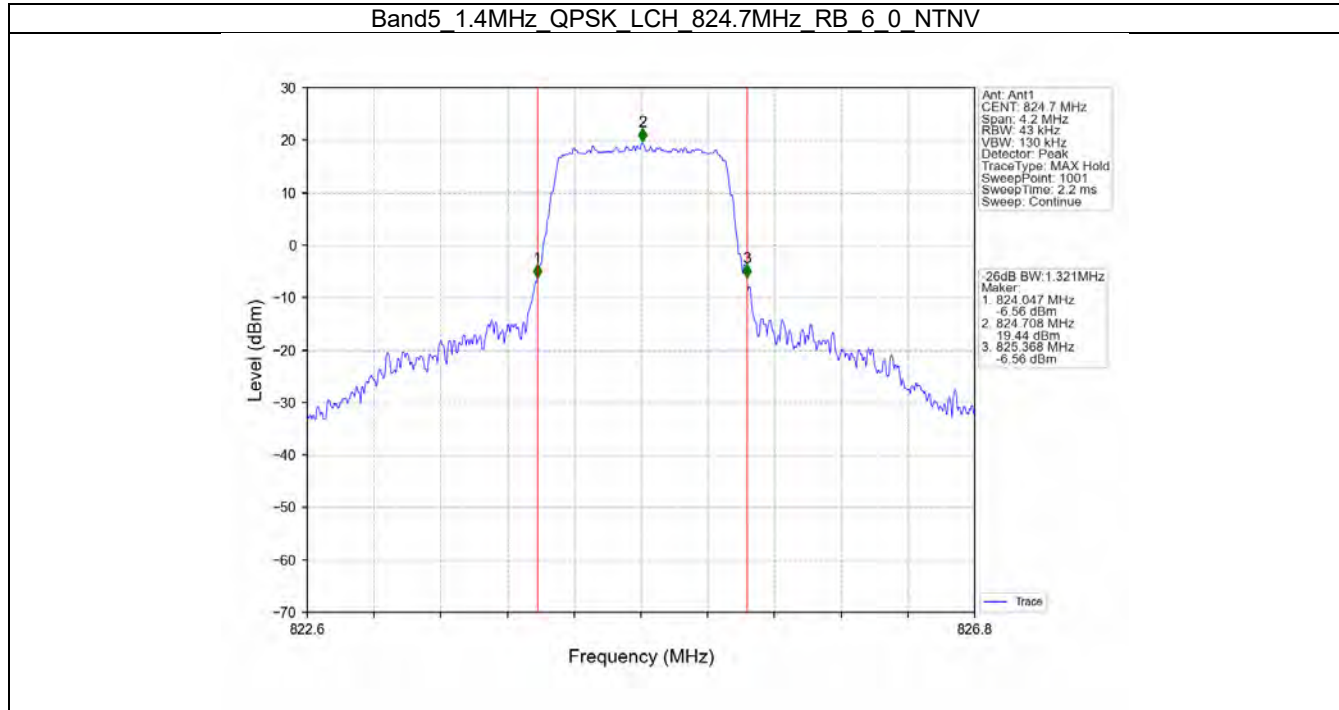
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Report No.: SZCR240200059401

Rev.: 01

Page: 46 of 144

## 4.2.2 Test Graph



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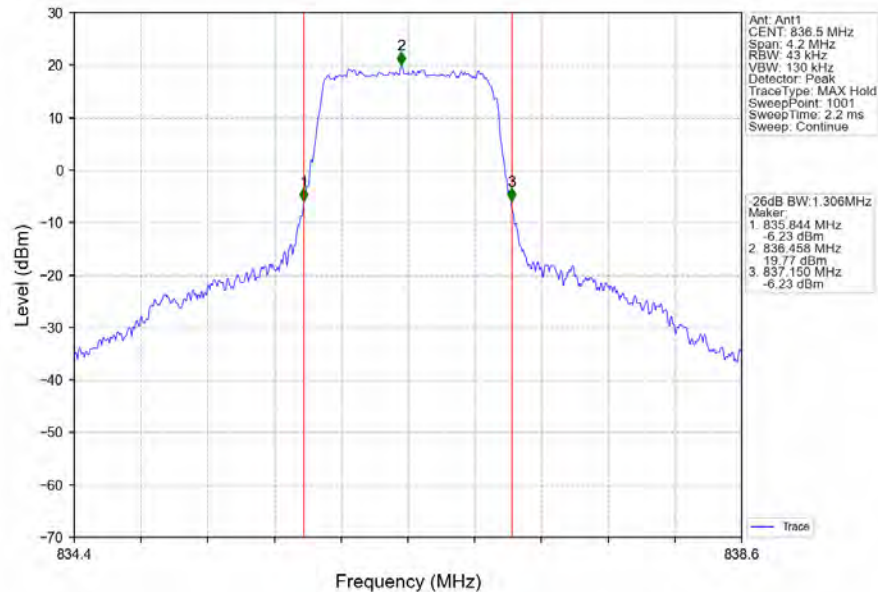
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Report No.: SZCR240200059401

Rev.: 01

Page: 47 of 144

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



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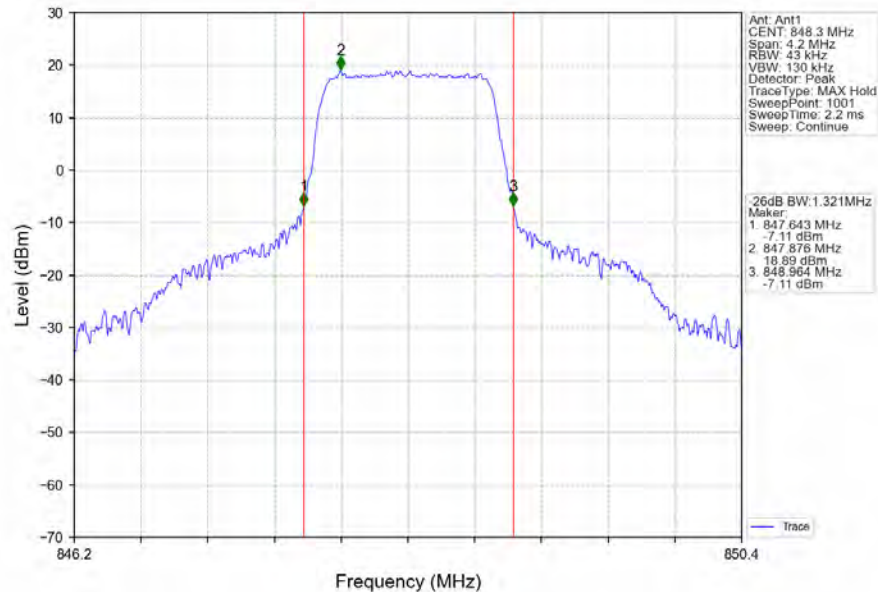
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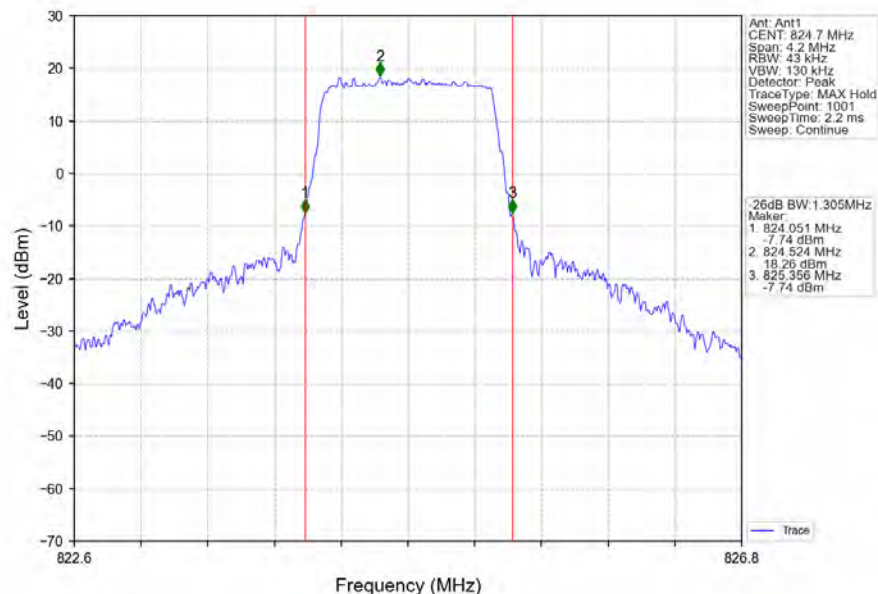
Rev.: 01

Page: 48 of 144

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



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



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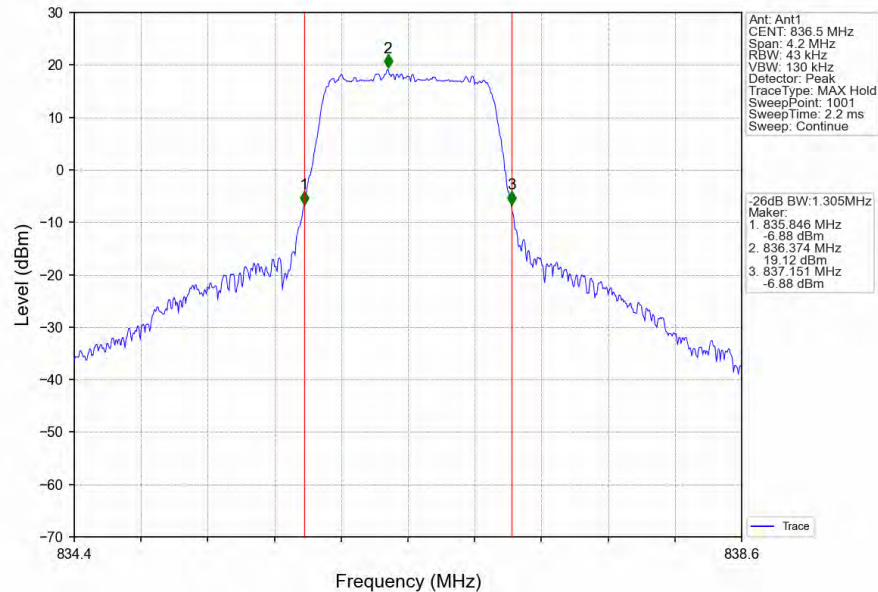
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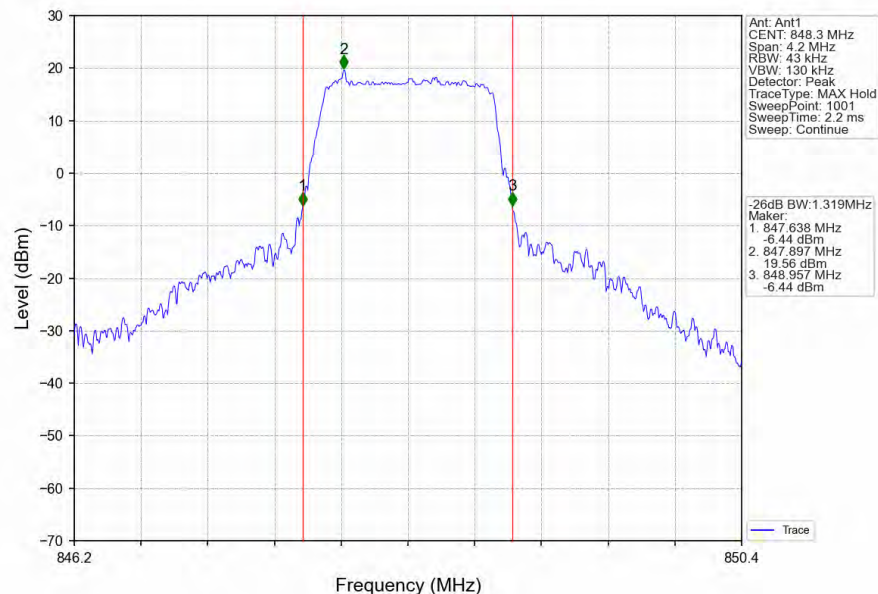
Rev.: 01

Page: 49 of 144

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



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



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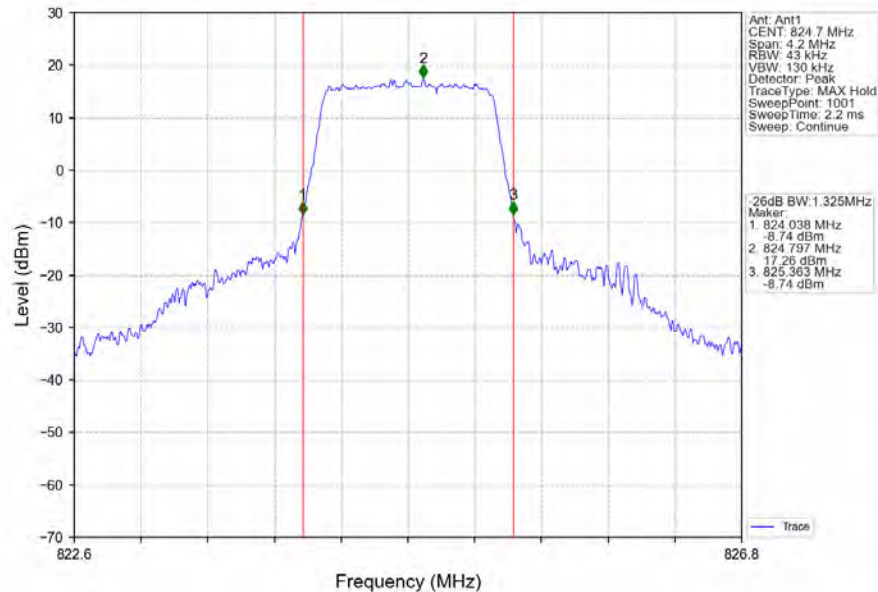
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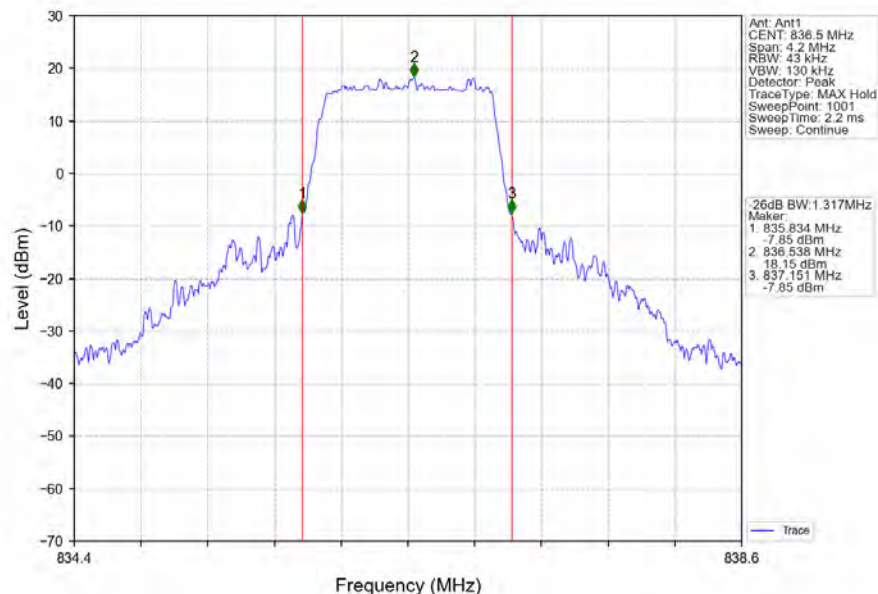
Rev.: 01

Page: 50 of 144

Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_64QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



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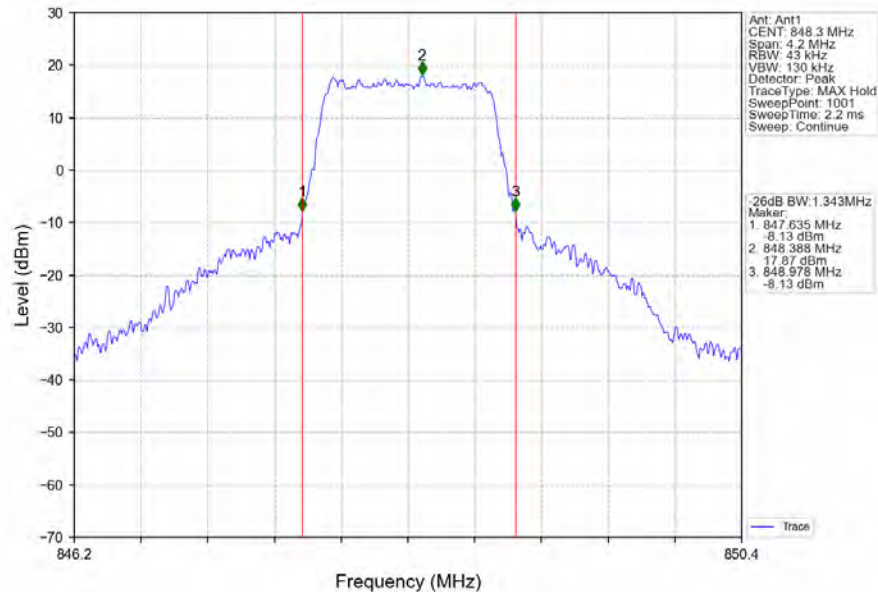
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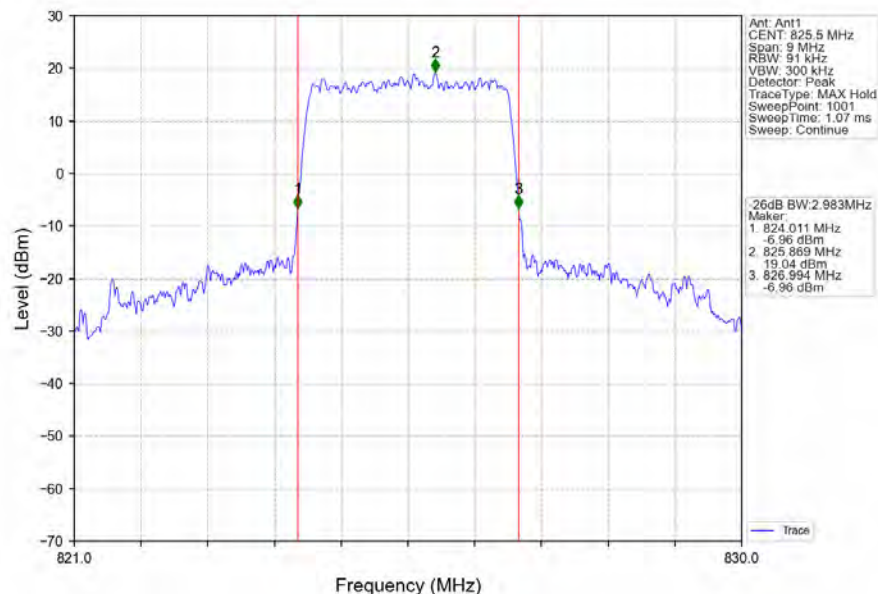
Rev.: 01

Page: 51 of 144

Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



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



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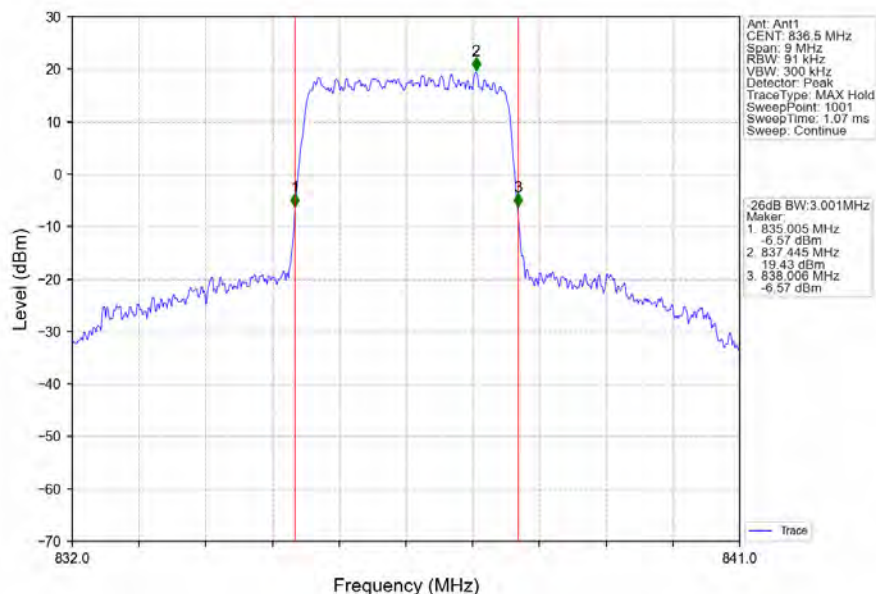
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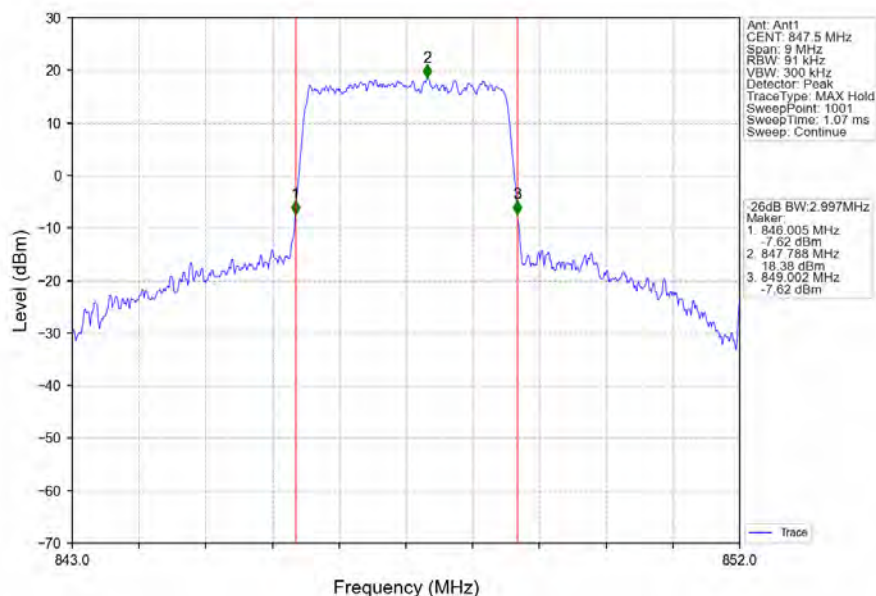
Rev.: 01

Page: 52 of 144

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



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



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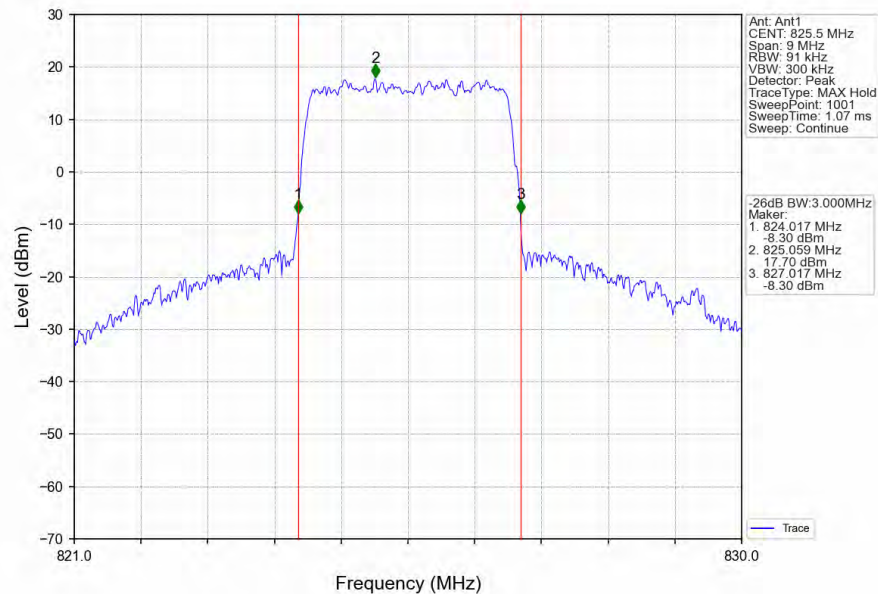
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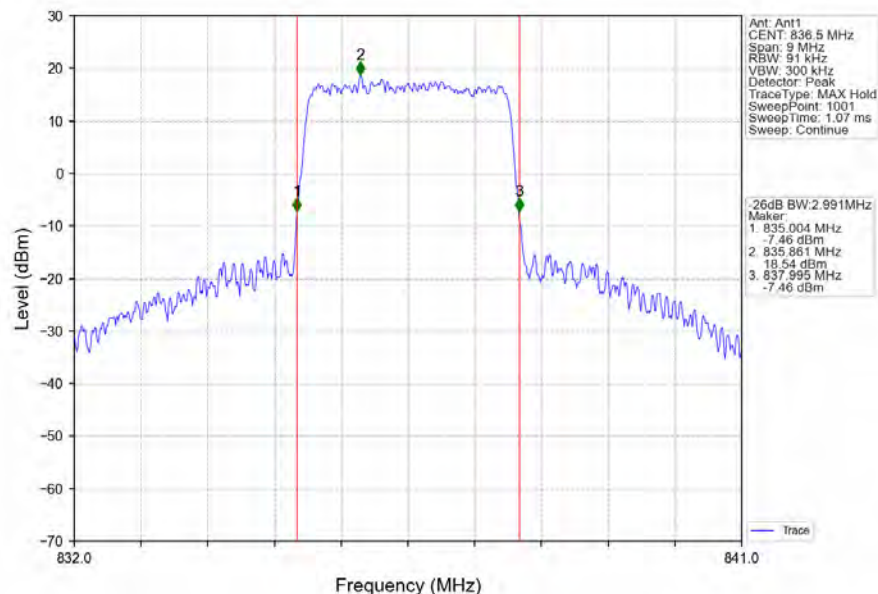
Rev.: 01

Page: 53 of 144

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



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



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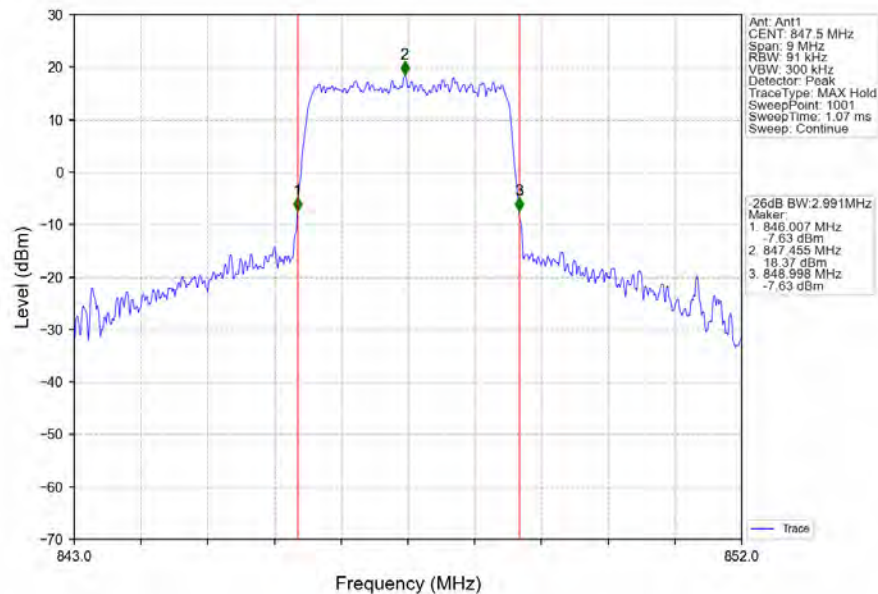
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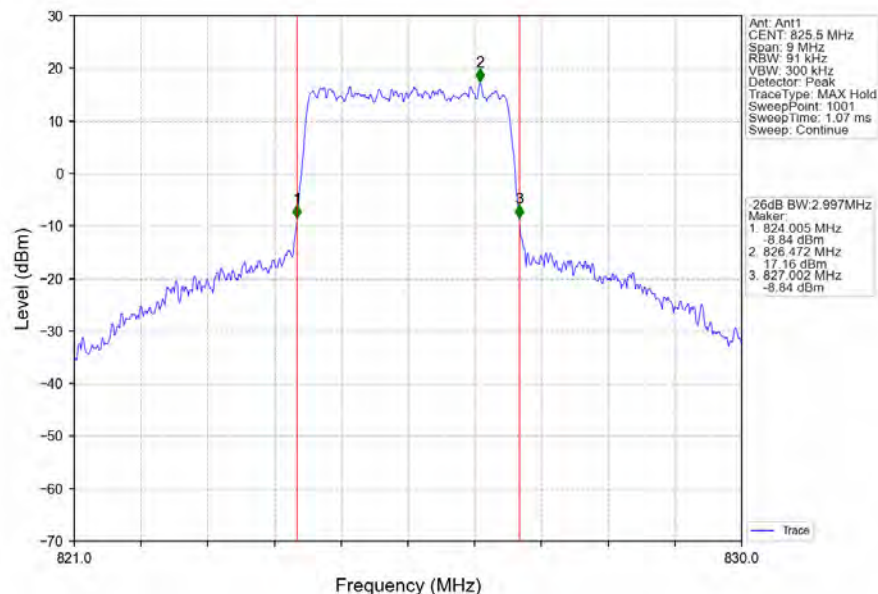
Rev.: 01

Page: 54 of 144

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



Band5\_3MHz\_64QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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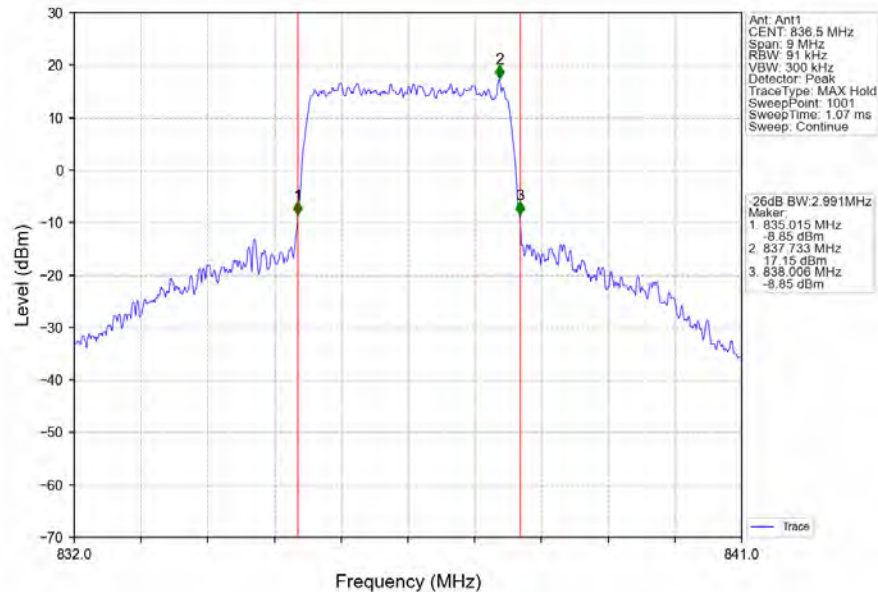
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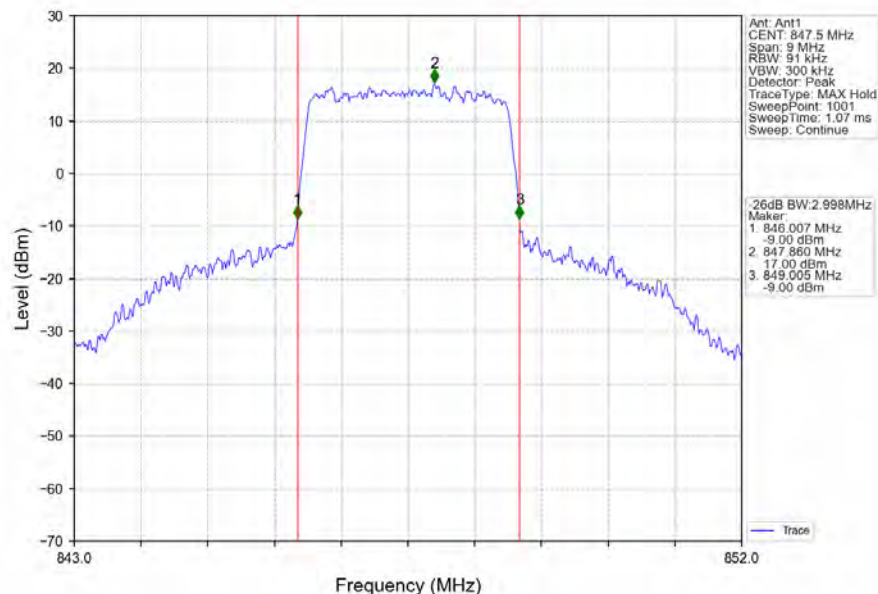
Rev.: 01

Page: 55 of 144

Band5\_3MHz\_64QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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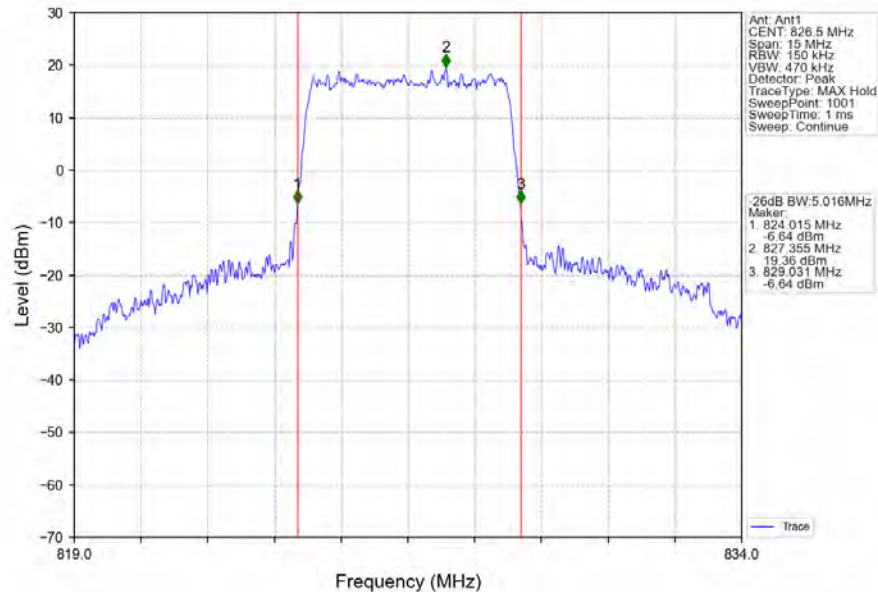
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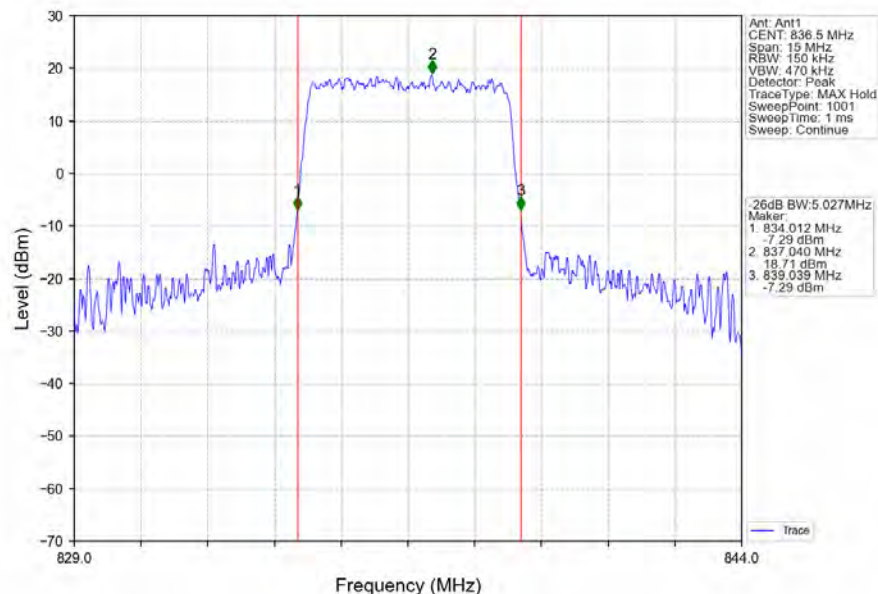
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Page: 56 of 144

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



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



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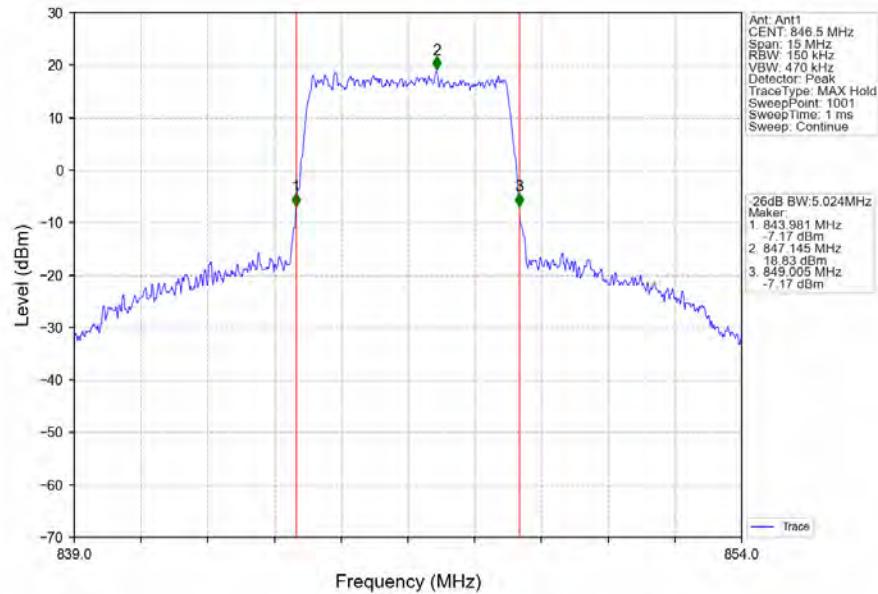
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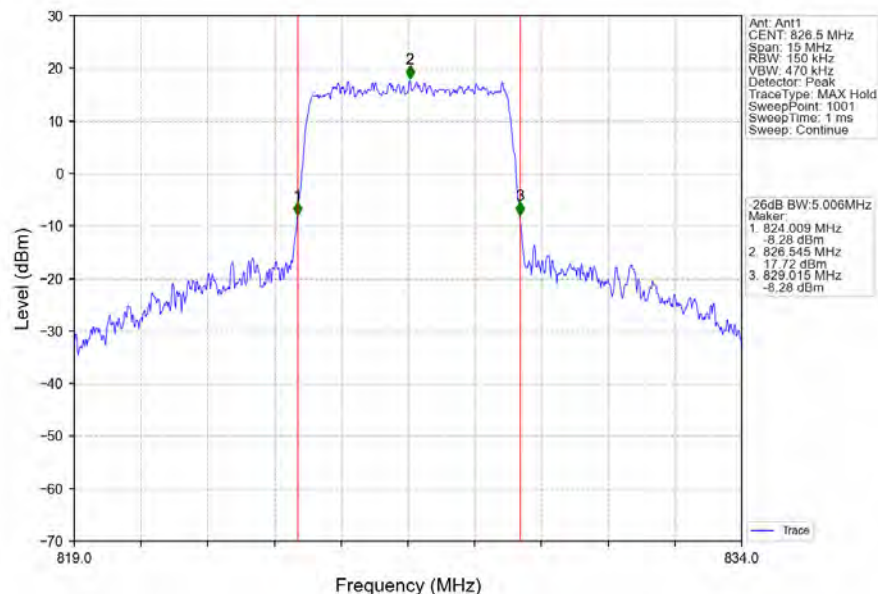
Rev.: 01

Page: 57 of 144

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



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



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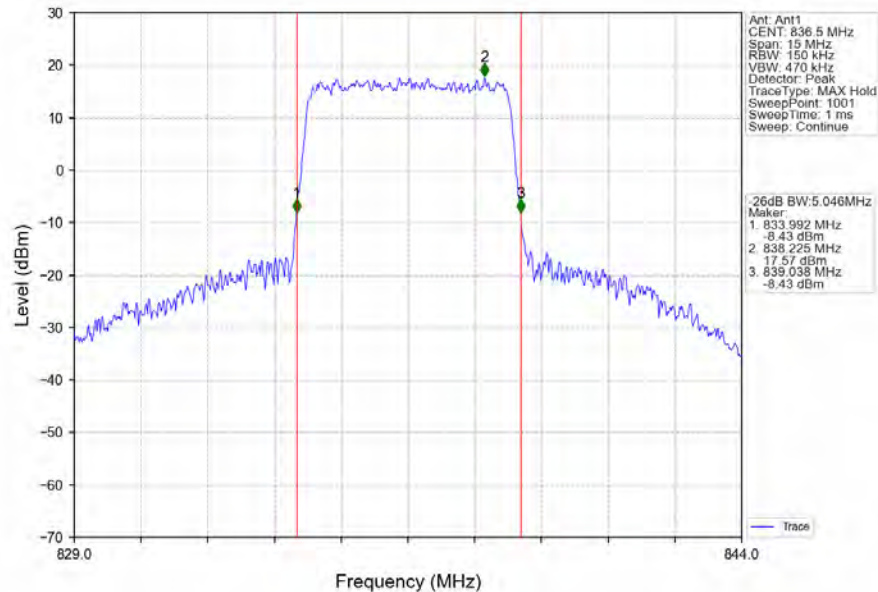
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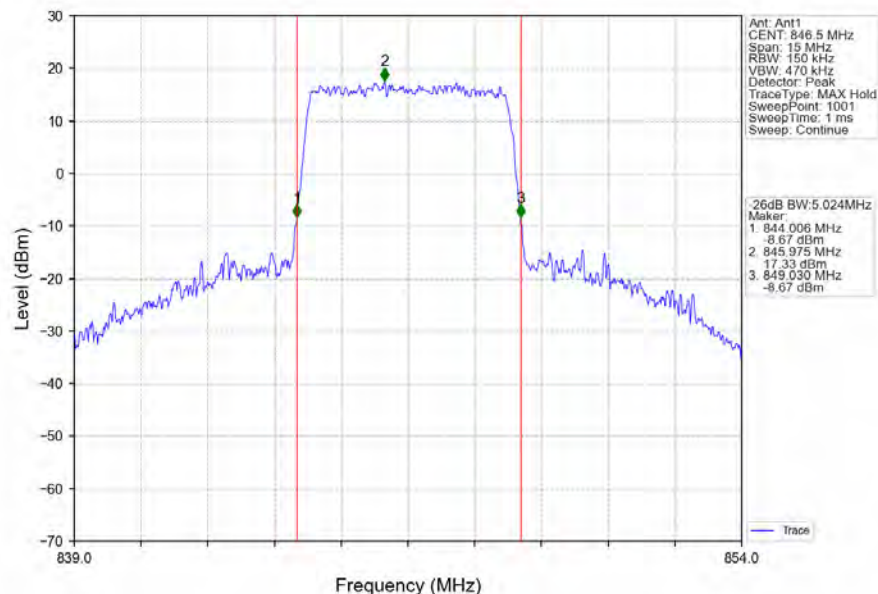
Rev.: 01

Page: 58 of 144

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



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



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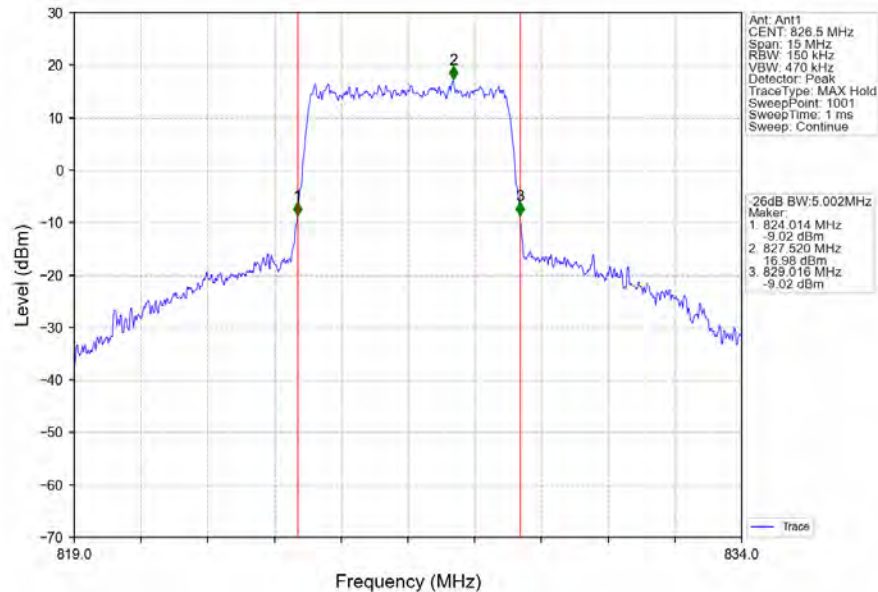
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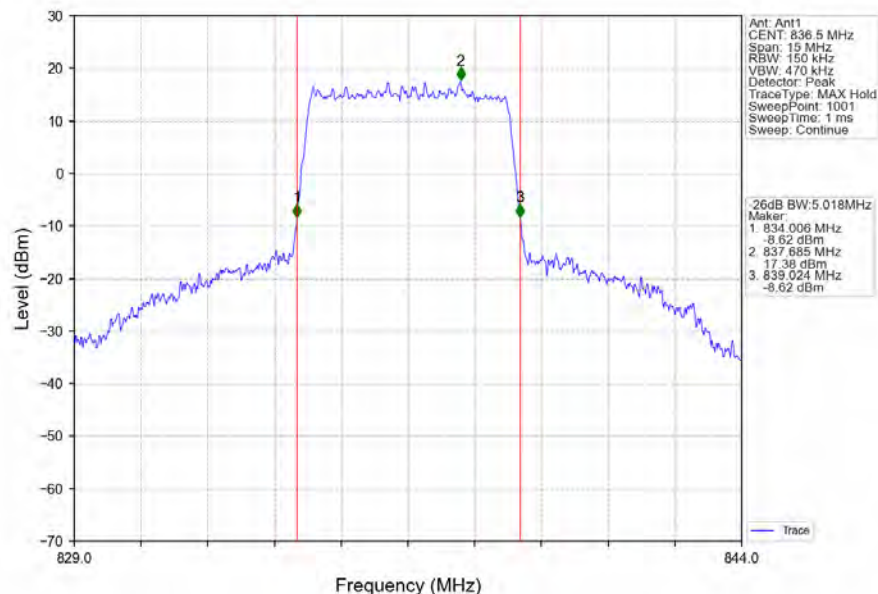
Rev.: 01

Page: 59 of 144

Band5\_5MHz\_64QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_64QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



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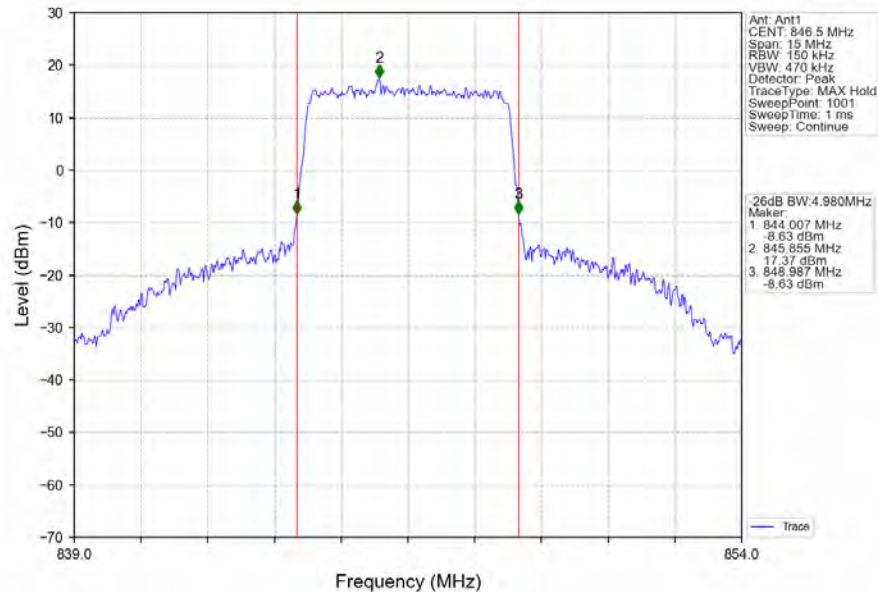
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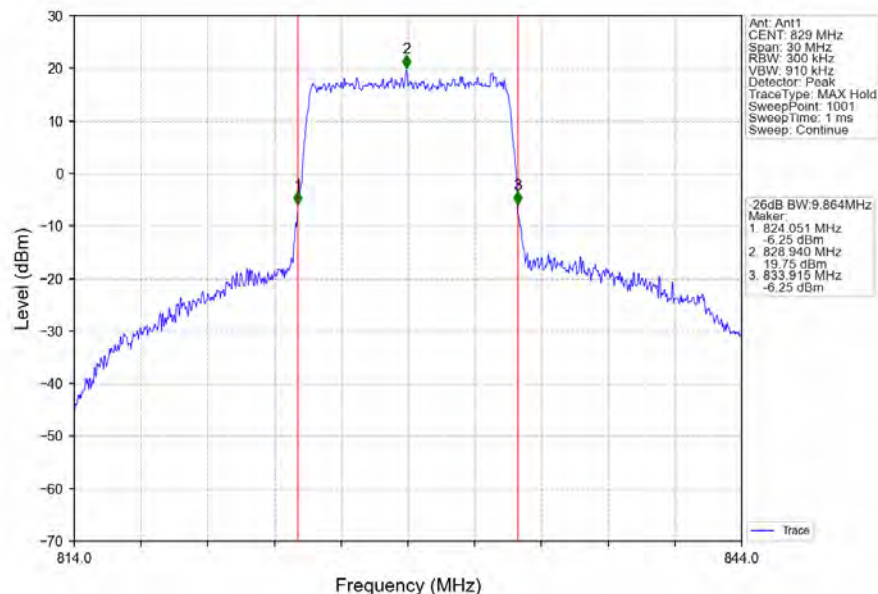
Rev.: 01

Page: 60 of 144

Band5\_5MHz\_64QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



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



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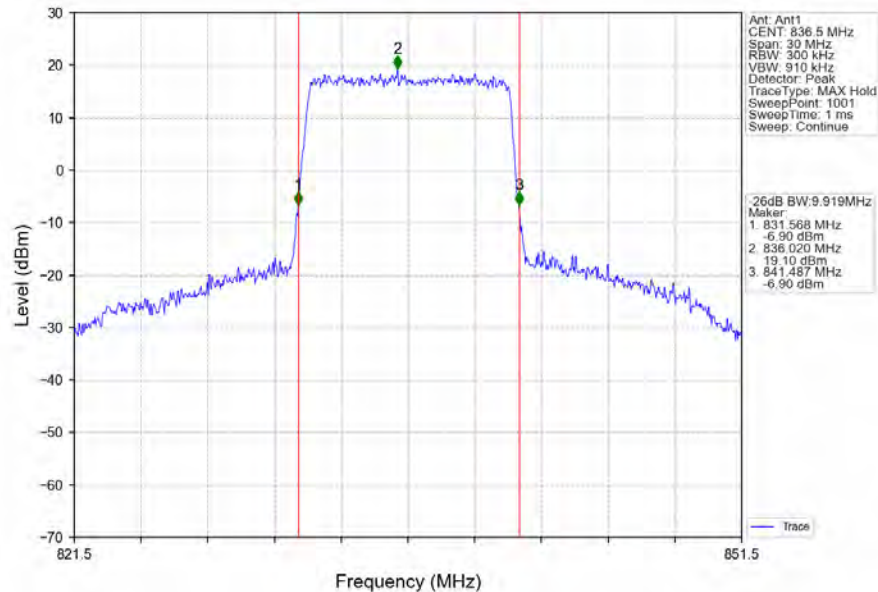
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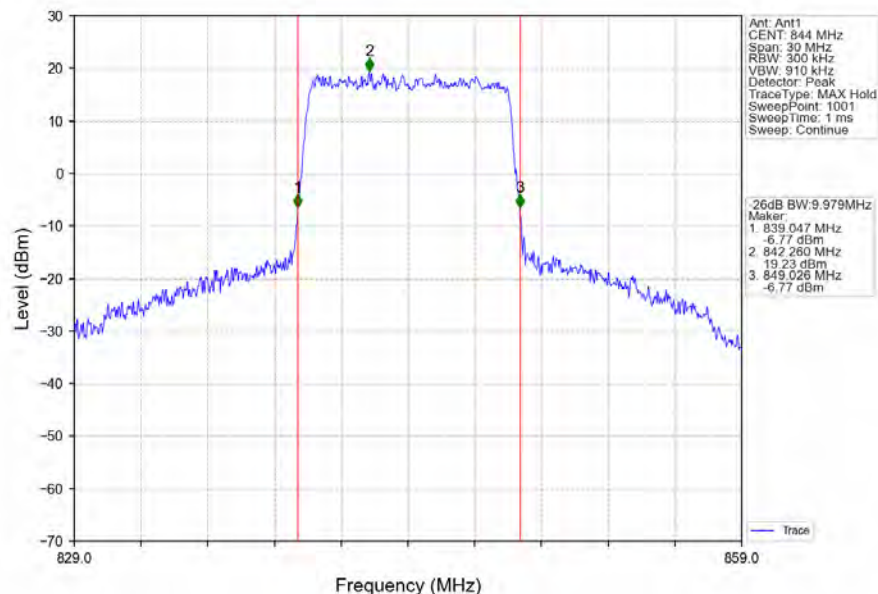
Rev.: 01

Page: 61 of 144

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



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



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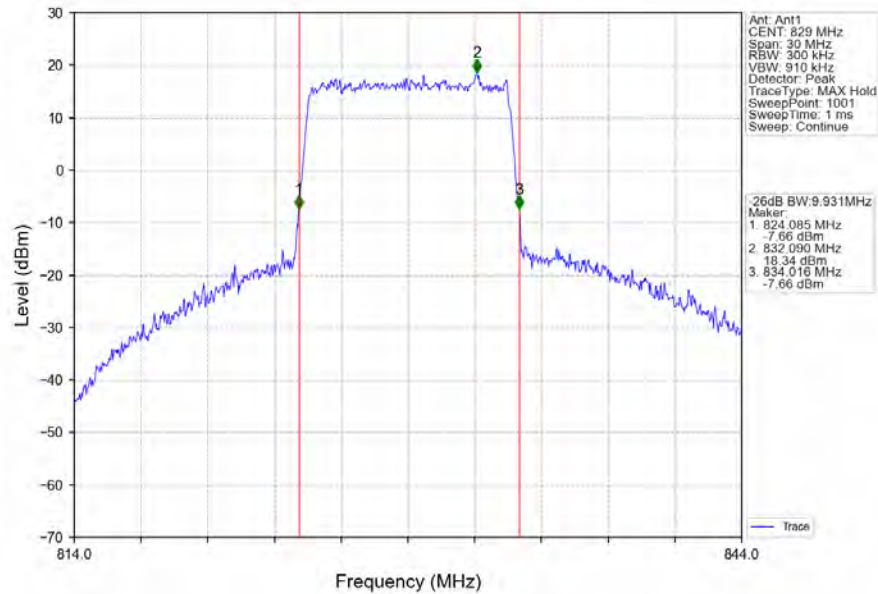
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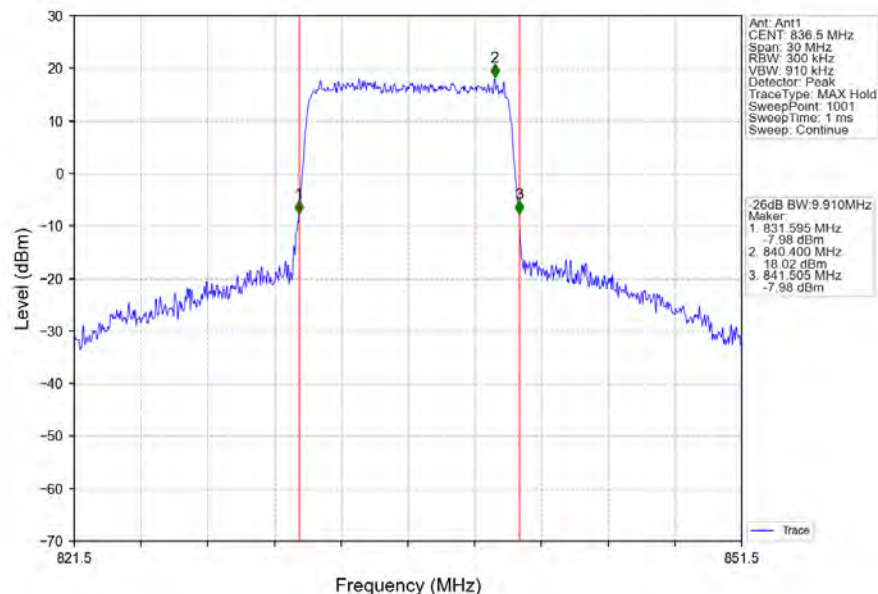
Rev.: 01

Page: 62 of 144

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



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



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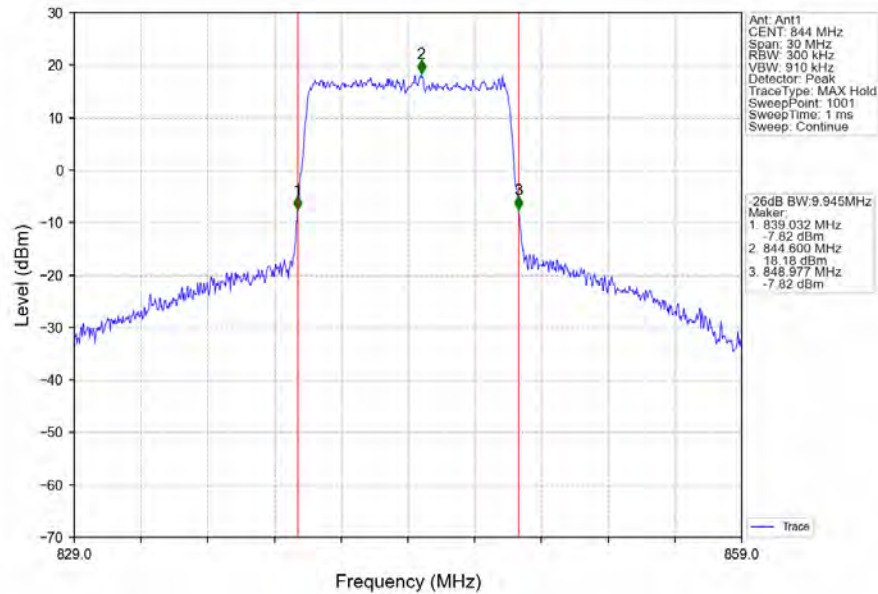
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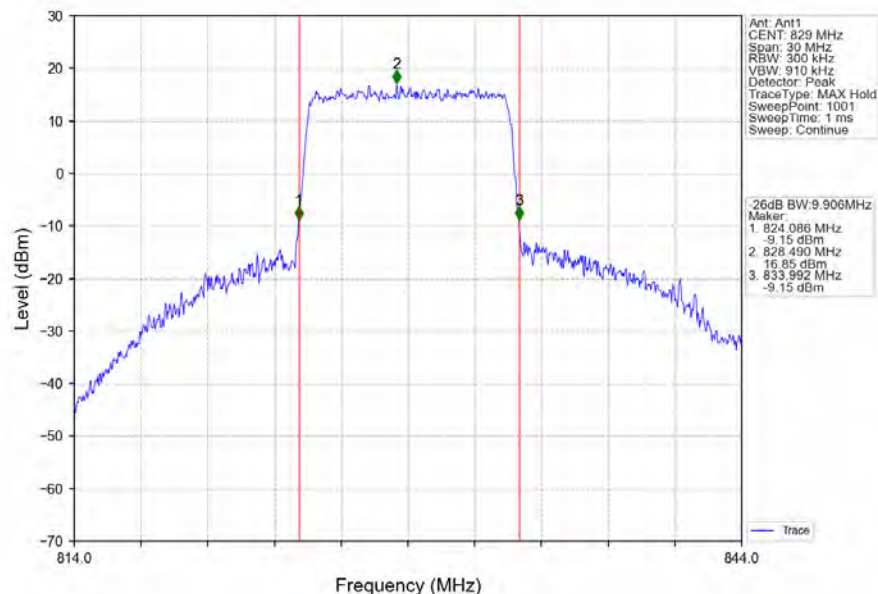
Rev.: 01

Page: 63 of 144

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



Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



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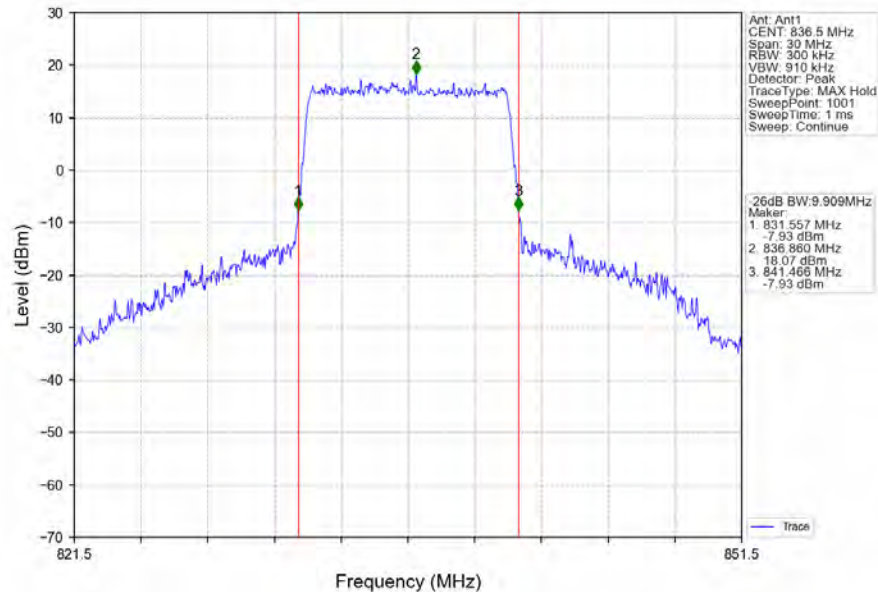
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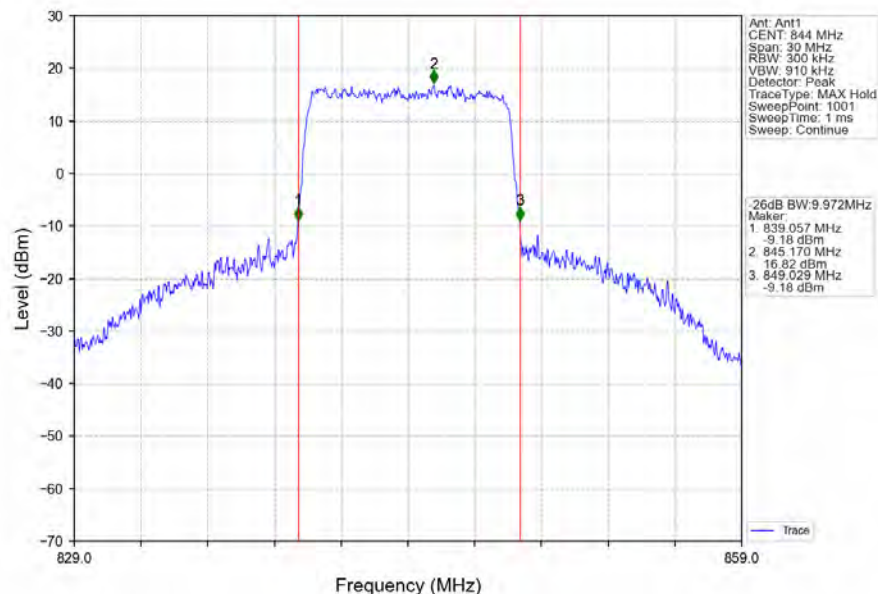
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Page: 64 of 144

Band5\_10MHz\_64QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_64QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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Report No.: SZCR240200059401  
Rev.: 01  
Page: 65 of 144

## 5. Peak-Average Ratio

### 5.1 B5\_1.4MHz

#### 5.1.1 Test Result

| 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      | 5.10                    | <=13  | Pass    |
|                                    | 836.5           | 6             | 0      | 4.99                    | <=13  | Pass    |
|                                    | 848.3           | 6             | 0      | 4.60                    | <=13  | Pass    |
| 16QAM                              | 824.7           | 6             | 0      | 5.85                    | <=13  | Pass    |
|                                    | 836.5           | 6             | 0      | 5.82                    | <=13  | Pass    |
|                                    | 848.3           | 6             | 0      | 5.43                    | <=13  | Pass    |
| 64QAM                              | 824.7           | 6             | 0      | 5.45                    | <=13  | Pass    |
|                                    | 836.5           | 6             | 0      | 5.25                    | <=13  | Pass    |
|                                    | 848.3           | 6             | 0      | 4.85                    | <=13  | Pass    |



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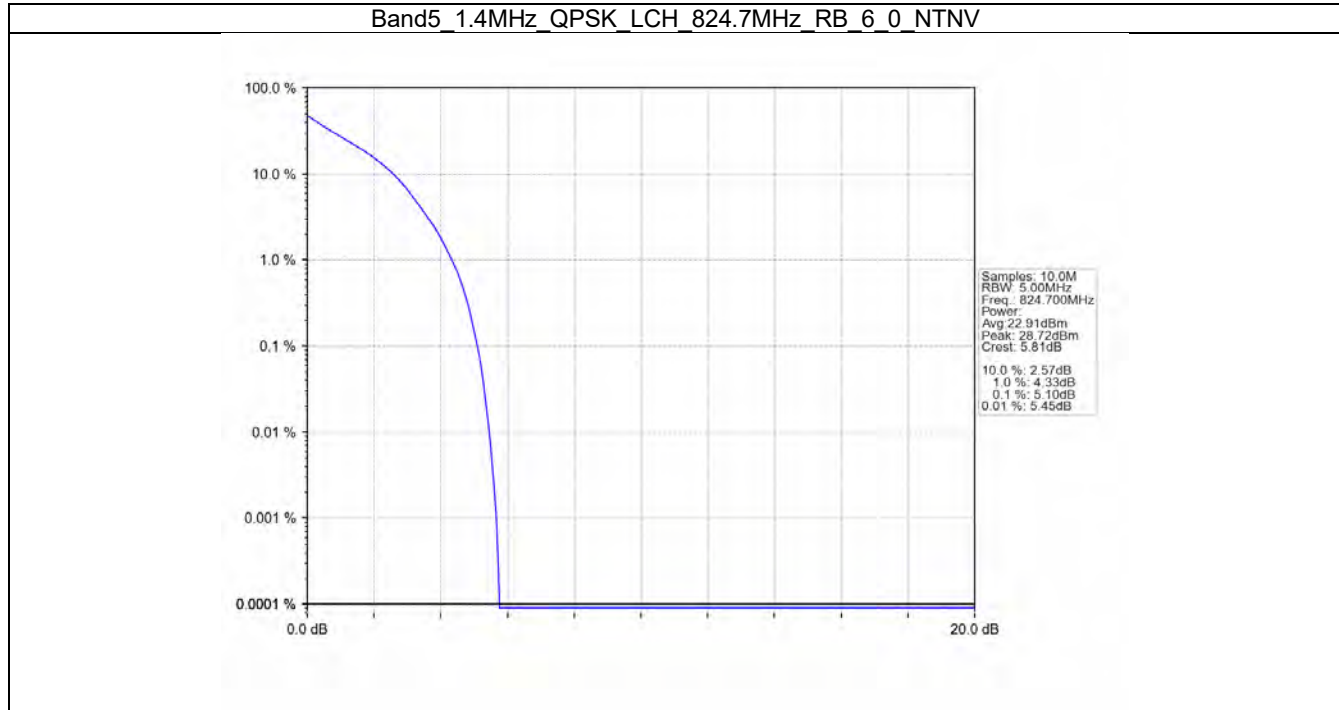
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Page: 66 of 144

## 5.1.2 Test Graph



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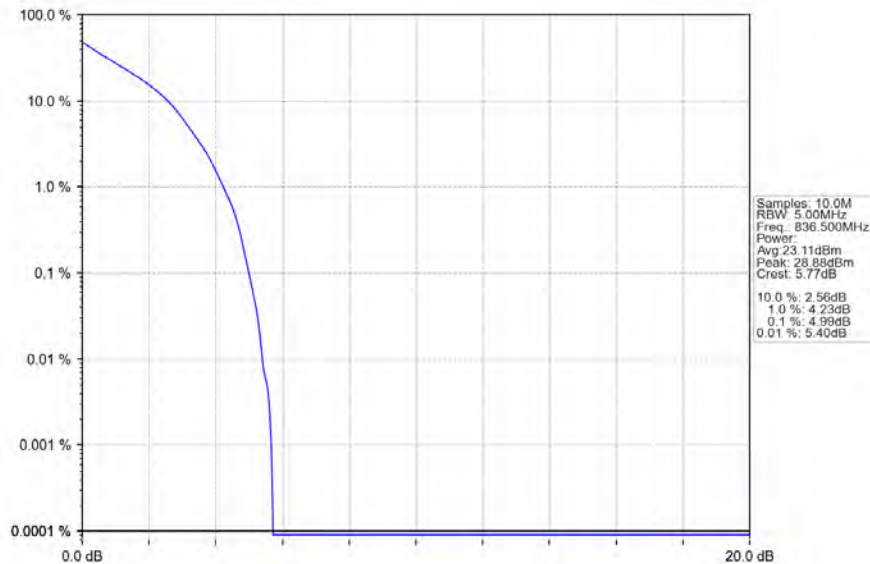
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Report No.: SZCR240200059401

Rev.: 01

Page: 67 of 144

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



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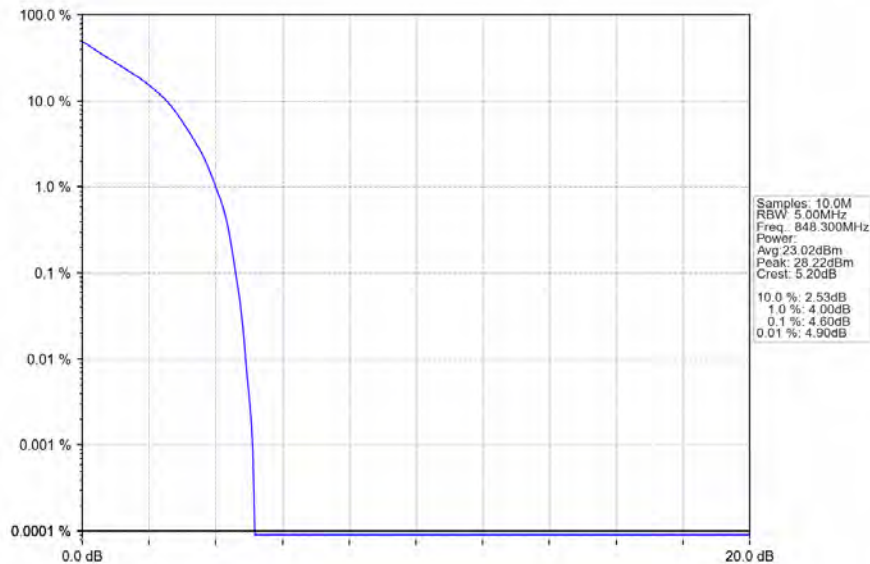
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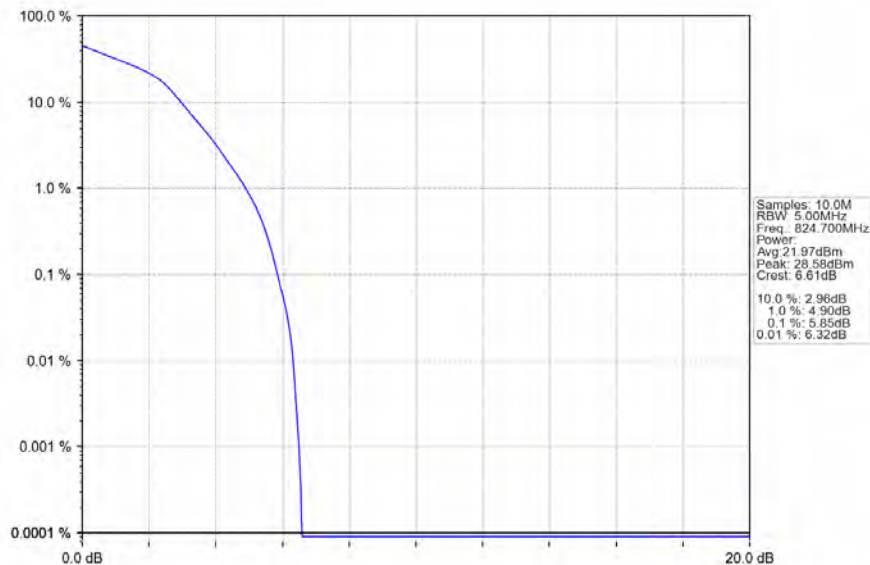
Rev.: 01

Page: 68 of 144

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



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



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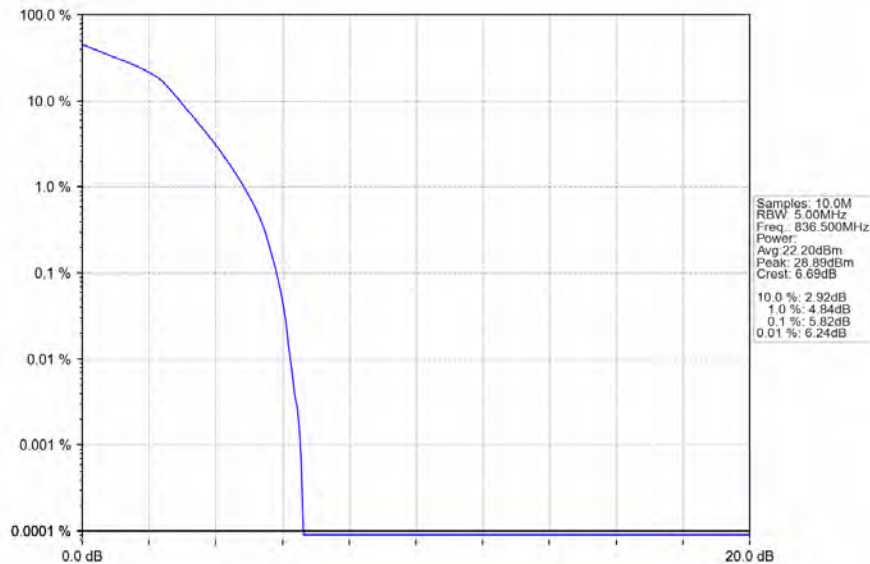
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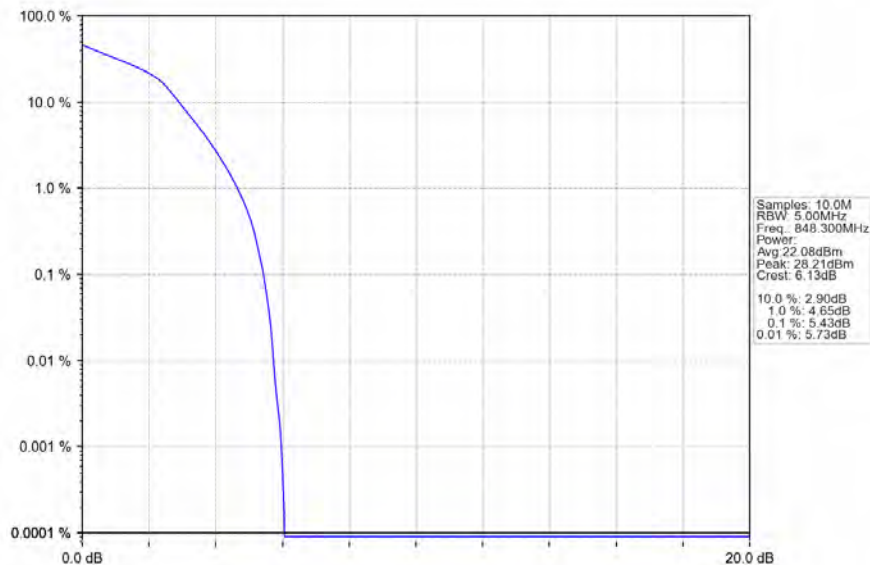
Rev.: 01

Page: 69 of 144

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



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



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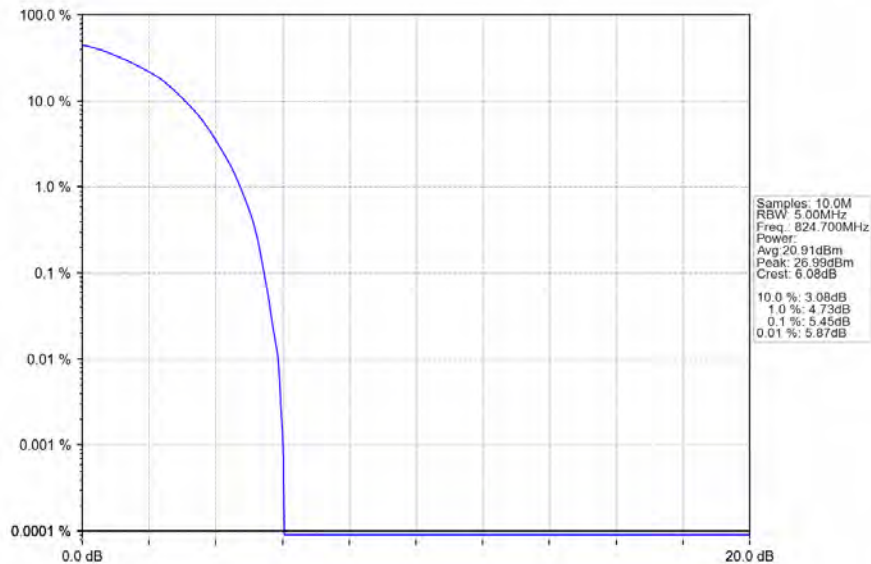
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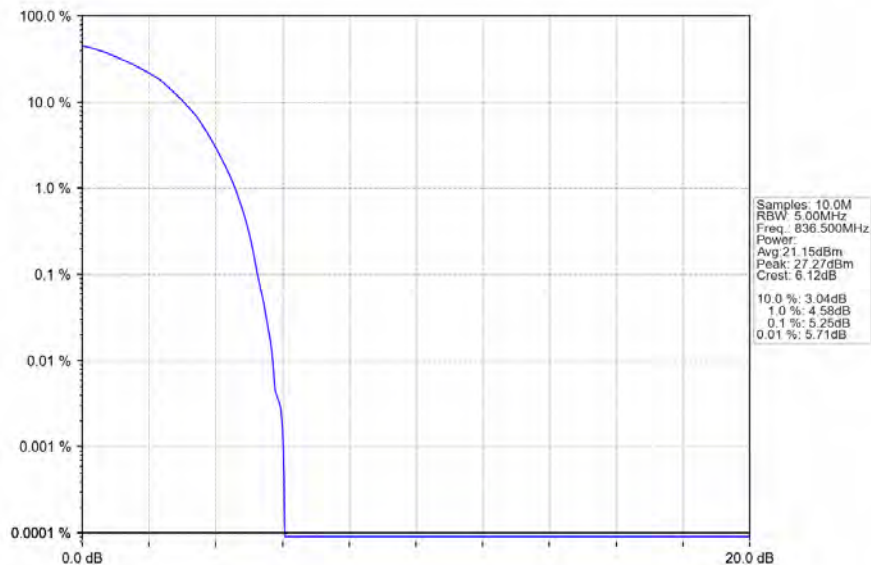
Rev.: 01

Page: 70 of 144

Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_64QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



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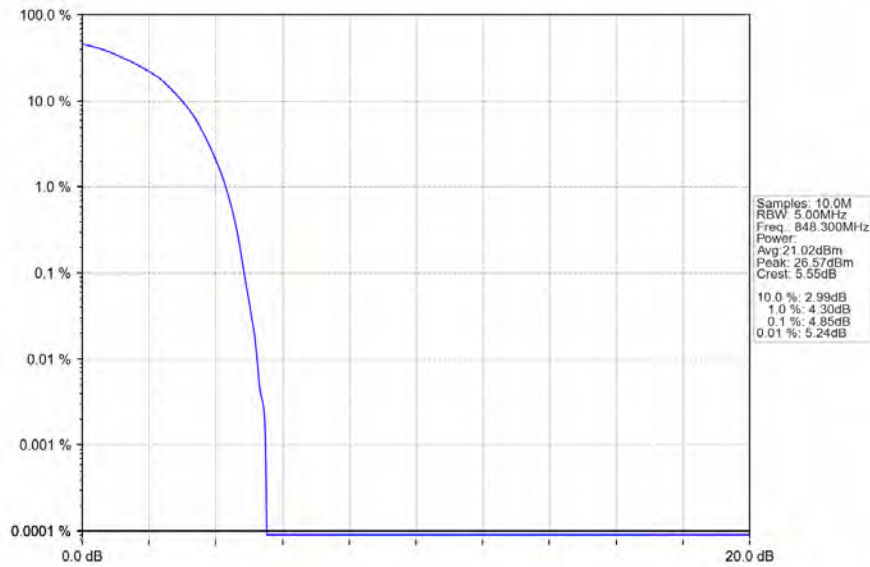
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Rev.: 01

Page: 71 of 144

Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



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Report No.: SZCR240200059401  
Rev.: 01  
Page: 72 of 144

## 5.2 B5\_3MHz

### 5.2.1 Test Result

| Band: 5 / Bandwidth: 3MHz / NTN |                 |               |        |                         |       |         |
|---------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                 |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                            | 825.5           | 15            | 0      | 5.34                    | <=13  | Pass    |
|                                 | 836.5           | 15            | 0      | 5.21                    | <=13  | Pass    |
|                                 | 847.5           | 15            | 0      | 5.03                    | <=13  | Pass    |
| 16QAM                           | 825.5           | 15            | 0      | 6.10                    | <=13  | Pass    |
|                                 | 836.5           | 15            | 0      | 6.02                    | <=13  | Pass    |
|                                 | 847.5           | 15            | 0      | 5.81                    | <=13  | Pass    |
| 64QAM                           | 825.5           | 15            | 0      | 5.73                    | <=13  | Pass    |
|                                 | 836.5           | 15            | 0      | 5.63                    | <=13  | Pass    |
|                                 | 847.5           | 15            | 0      | 5.49                    | <=13  | Pass    |



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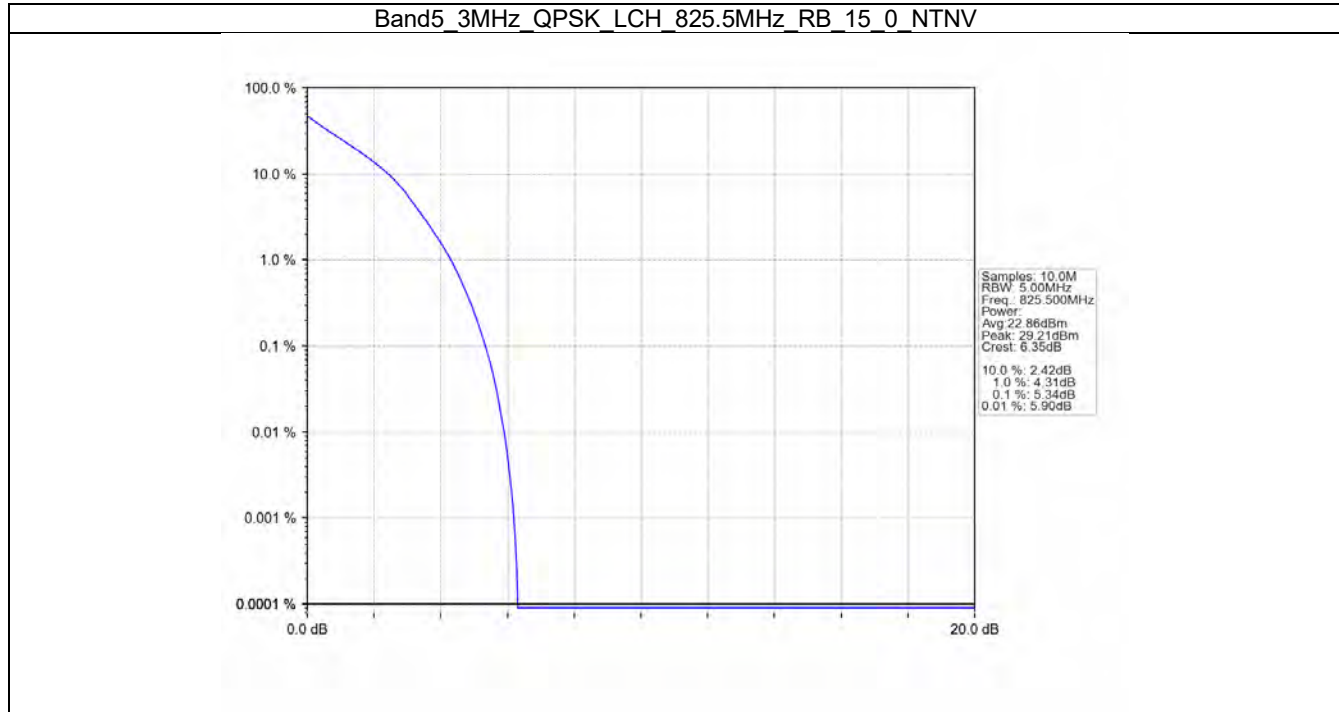
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Report No.: SZCR240200059401

Rev.: 01

Page: 73 of 144

## 5.2.2 Test Graph



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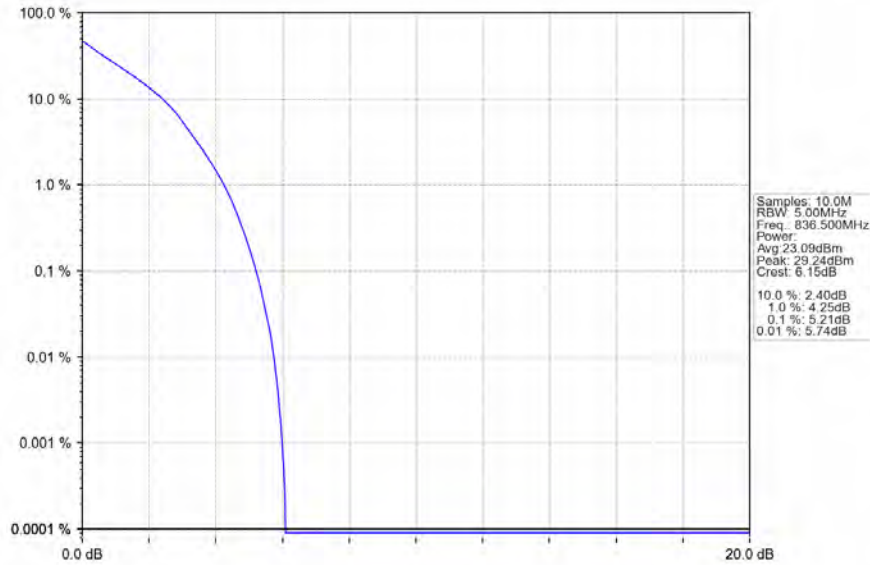
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Report No.: SZCR240200059401

Rev.: 01

Page: 74 of 144

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



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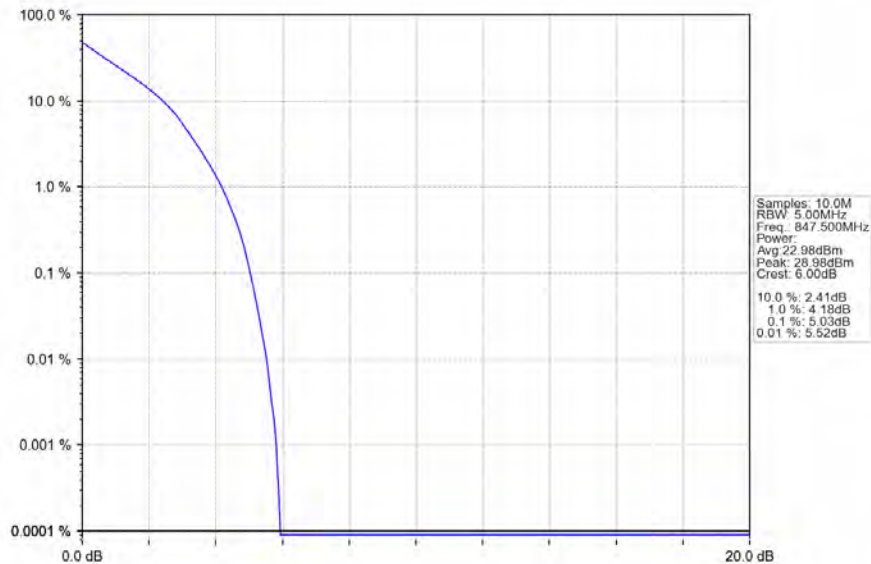
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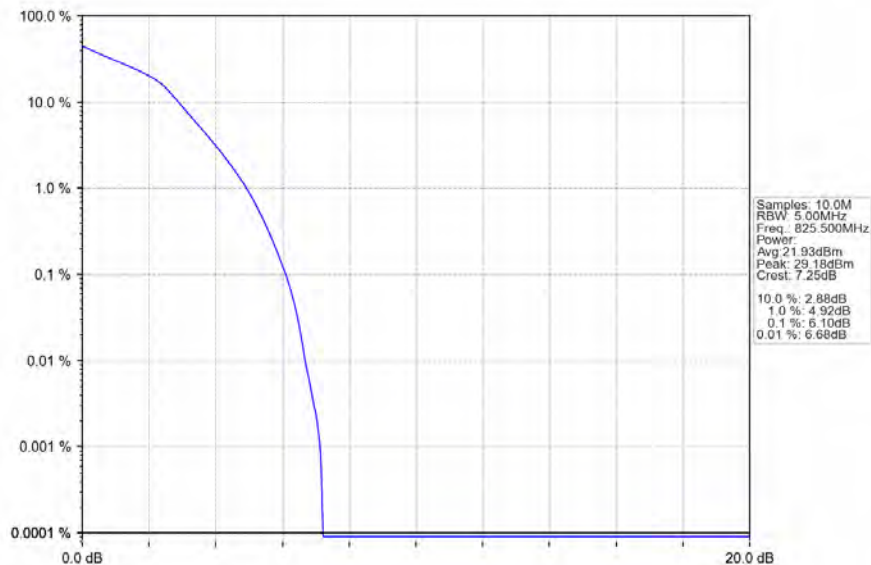
Rev.: 01

Page: 75 of 144

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



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



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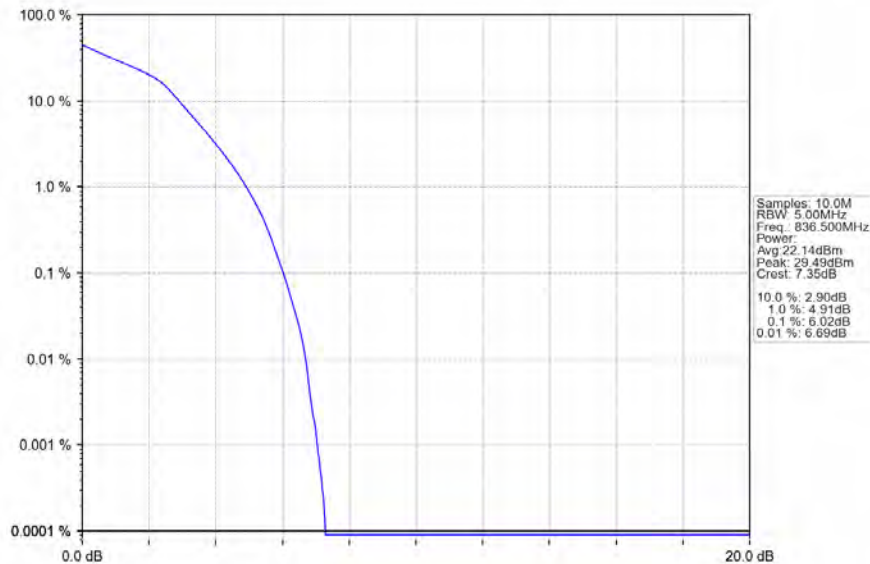
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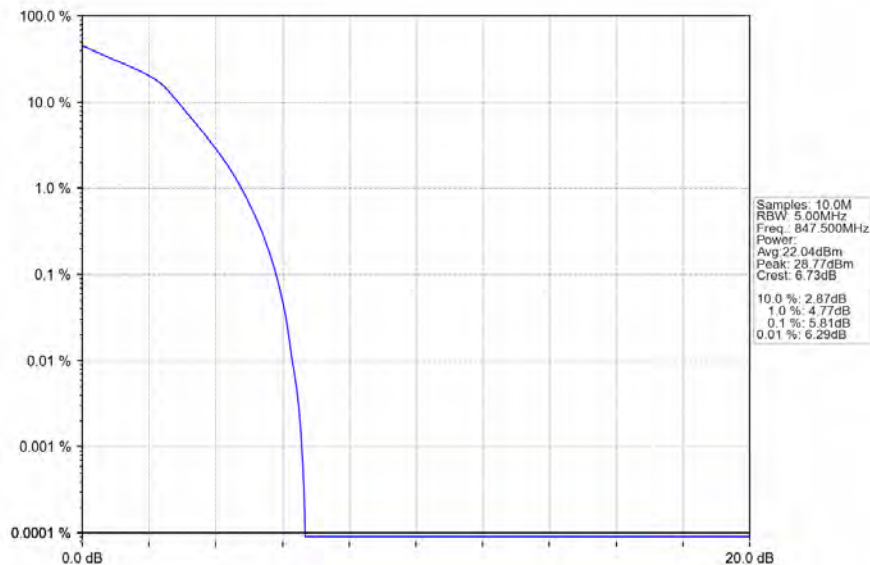
Rev.: 01

Page: 76 of 144

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



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



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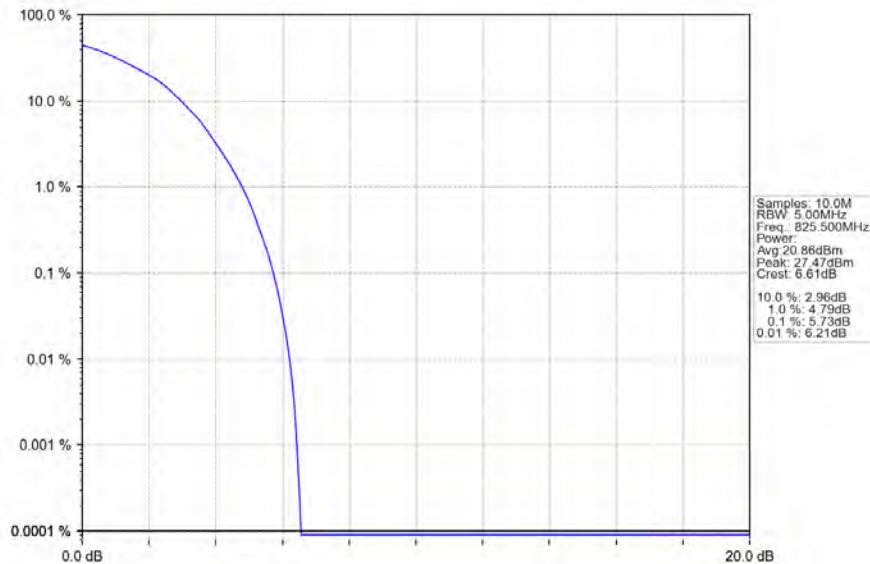
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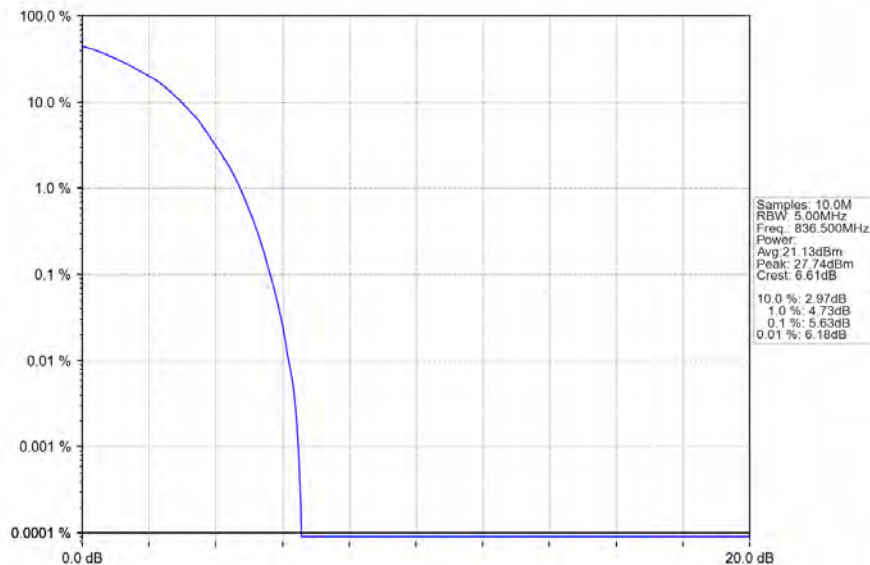
Rev.: 01

Page: 77 of 144

Band5\_3MHz\_64QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_64QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



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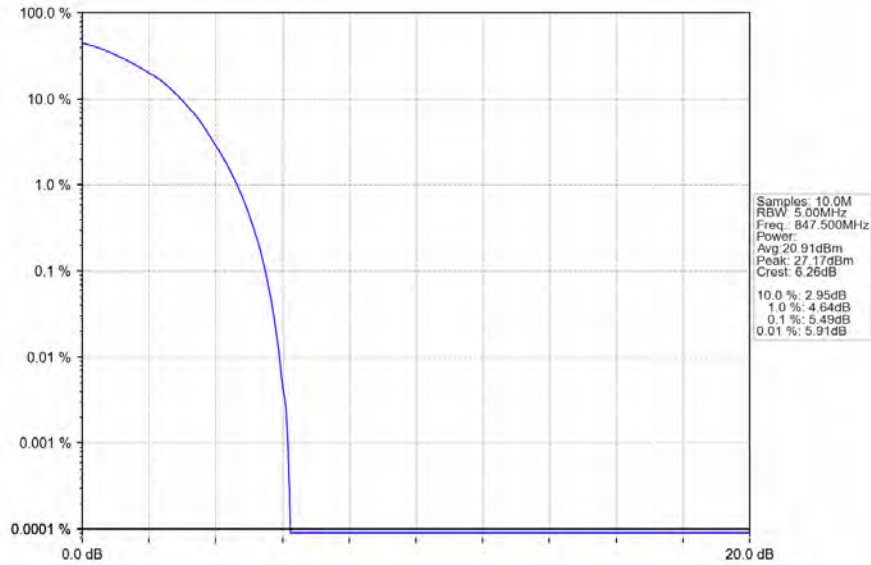
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Report No.: SZCR240200059401

Rev.: 01

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Report No.: SZCR240200059401  
Rev.: 01  
Page: 79 of 144

## 5.3 B5\_5MHz

### 5.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz / NTNV |                 |               |        |                         |       |         |
|----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                       | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                  |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                             | 826.5           | 25            | 0      | 5.51                    | <=13  | Pass    |
|                                  | 836.5           | 25            | 0      | 5.48                    | <=13  | Pass    |
|                                  | 846.5           | 25            | 0      | 5.40                    | <=13  | Pass    |
| 16QAM                            | 826.5           | 25            | 0      | 6.16                    | <=13  | Pass    |
|                                  | 836.5           | 25            | 0      | 6.15                    | <=13  | Pass    |
|                                  | 846.5           | 25            | 0      | 6.09                    | <=13  | Pass    |
| 64QAM                            | 826.5           | 25            | 0      | 5.97                    | <=13  | Pass    |
|                                  | 836.5           | 25            | 0      | 5.96                    | <=13  | Pass    |
|                                  | 846.5           | 25            | 0      | 5.90                    | <=13  | Pass    |



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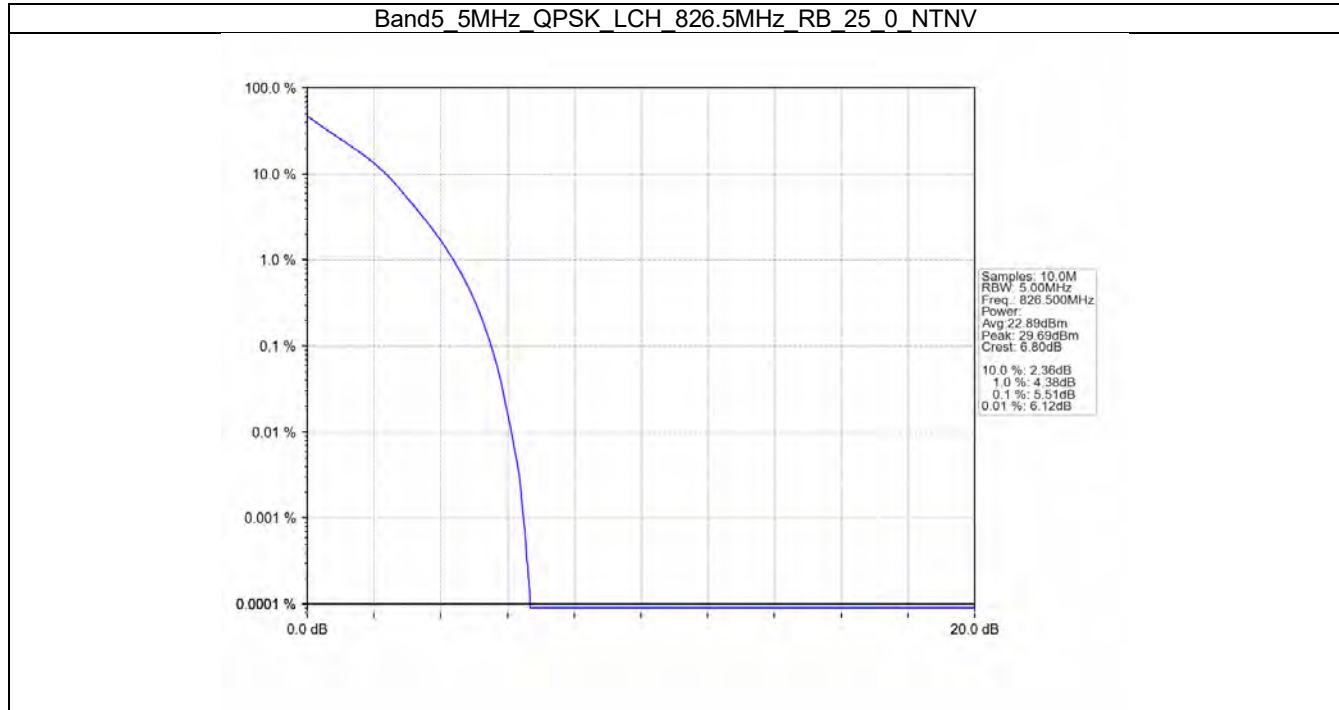
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 80 of 144

## 5.3.2 Test Graph



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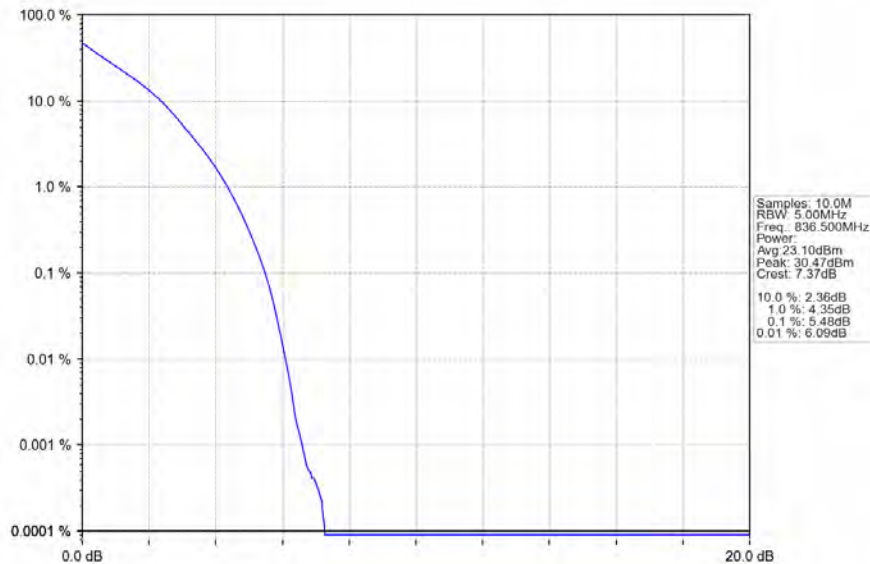
# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240200059401

Rev.: 01

Page: 81 of 144

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



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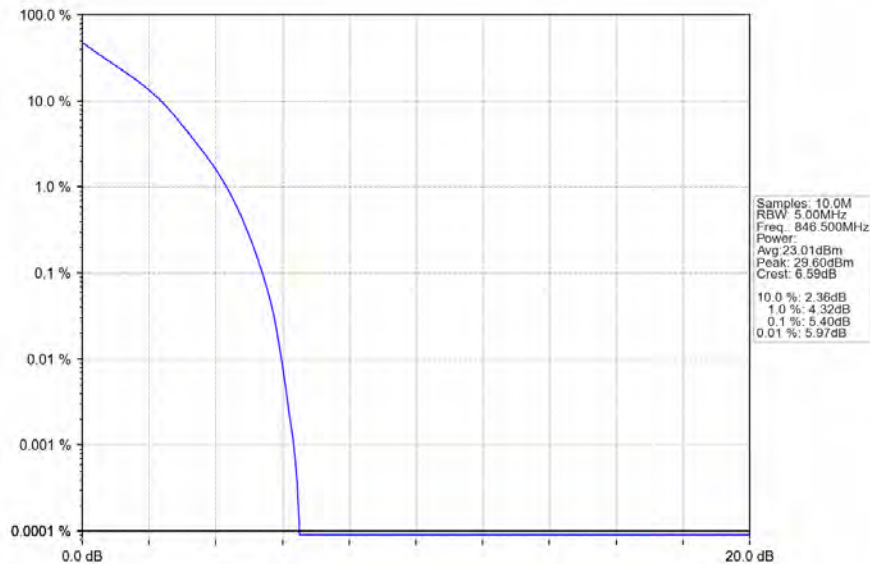
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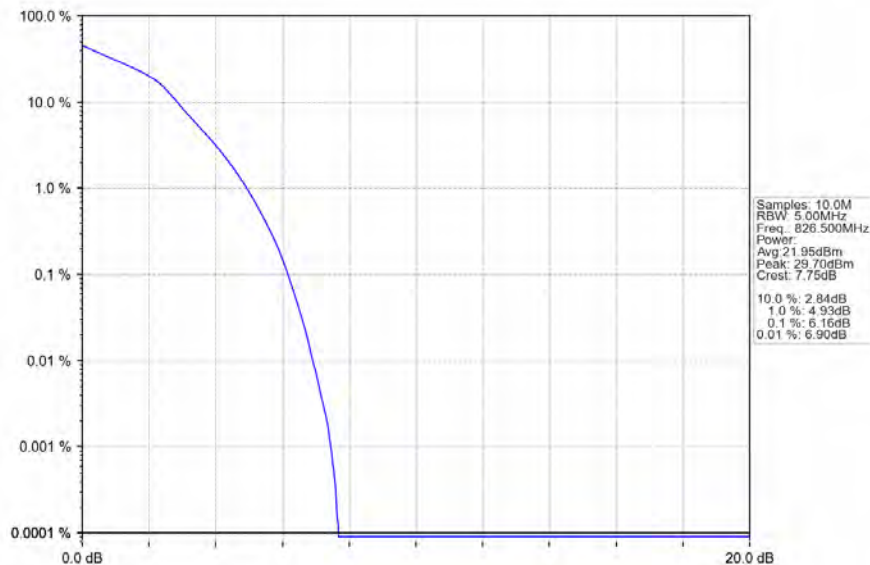
Rev.: 01

Page: 82 of 144

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



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



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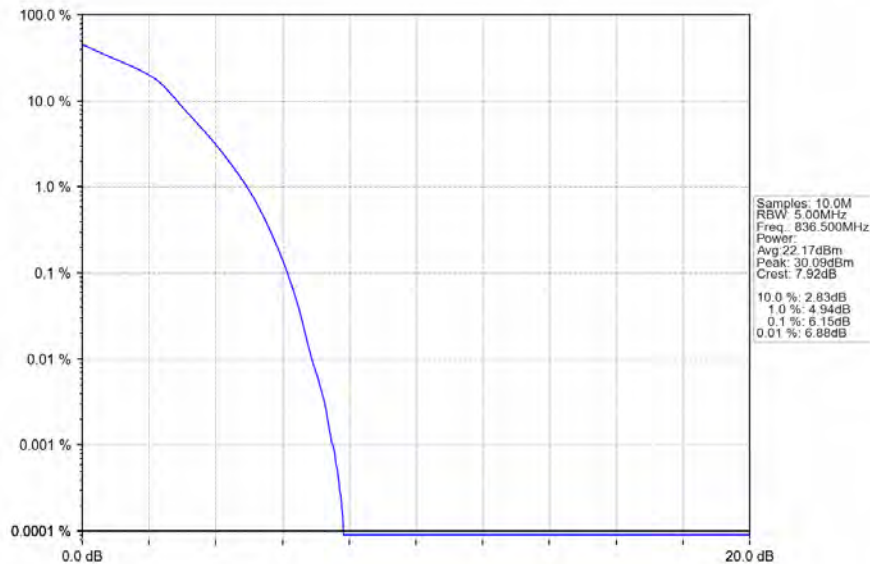
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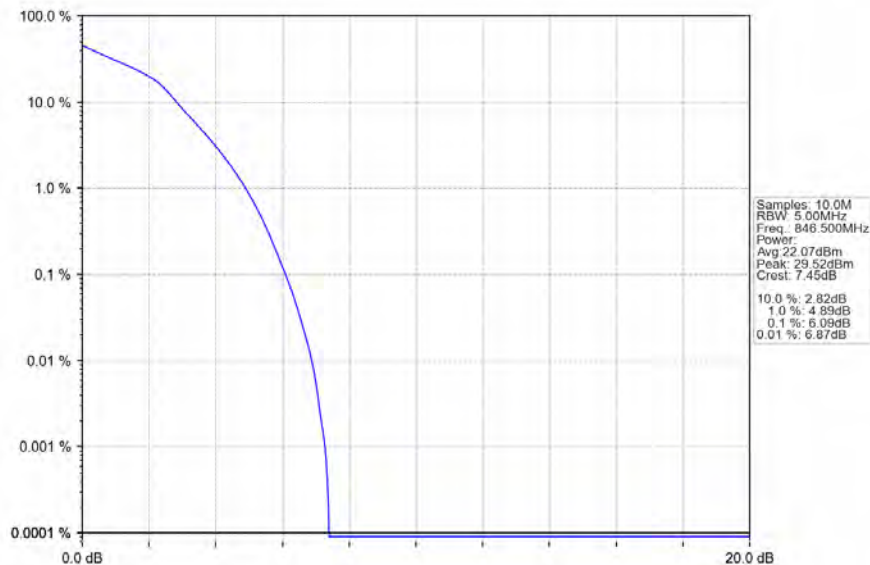
Rev.: 01

Page: 83 of 144

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



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



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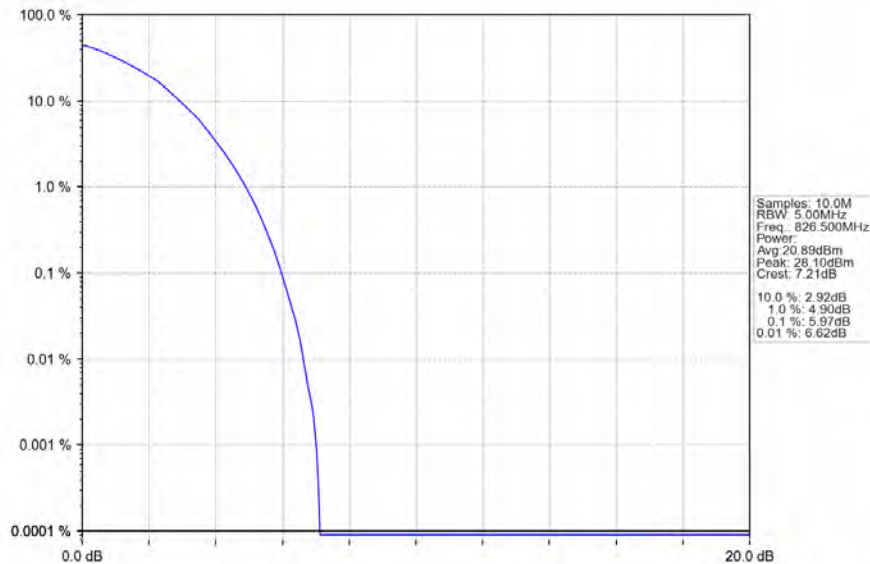
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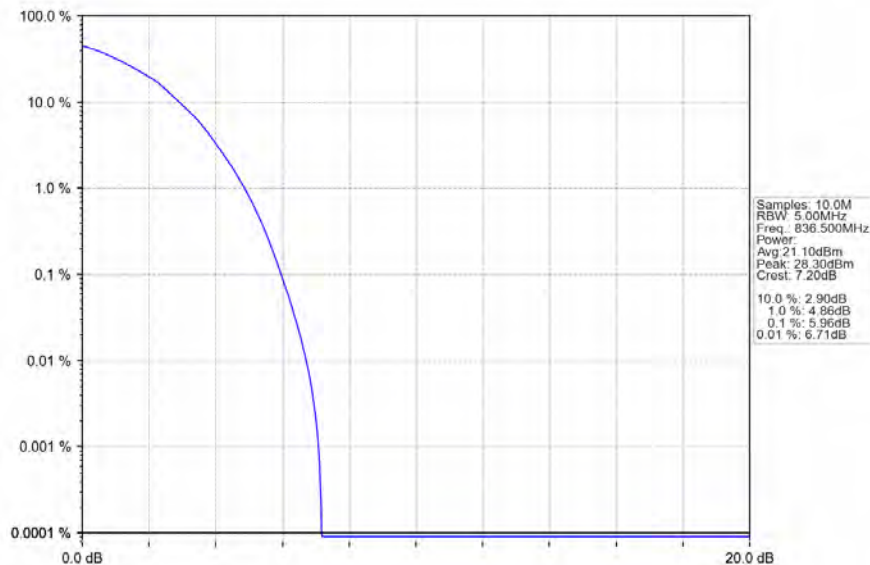
Rev.: 01

Page: 84 of 144

Band5\_5MHz\_64QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_64QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



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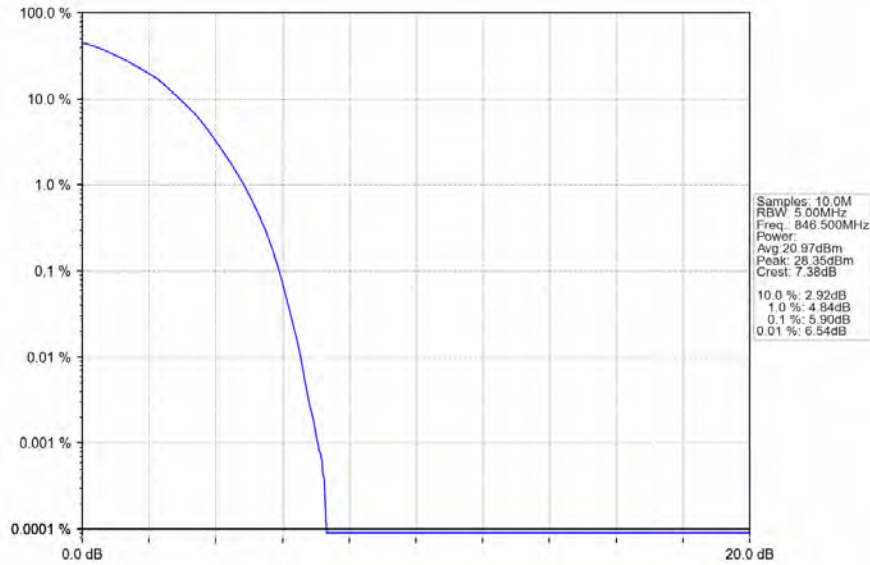
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Report No.: SZCR240200059401

Rev.: 01

Page: 85 of 144

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Report No.: SZCR240200059401  
Rev.: 01  
Page: 86 of 144

## 5.4 B5\_10MHz

### 5.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz / NTNV |                 |               |        |                         |       |         |
|-----------------------------------|-----------------|---------------|--------|-------------------------|-------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Peak-Average Ratio (dB) |       | Verdict |
|                                   |                 | Size          | Offset | Result                  | Limit |         |
| QPSK                              | 829             | 50            | 0      | 5.45                    | <=13  | Pass    |
|                                   | 836.5           | 50            | 0      | 5.41                    | <=13  | Pass    |
|                                   | 844             | 50            | 0      | 5.47                    | <=13  | Pass    |
| 16QAM                             | 829             | 50            | 0      | 6.14                    | <=13  | Pass    |
|                                   | 836.5           | 50            | 0      | 6.18                    | <=13  | Pass    |
|                                   | 844             | 50            | 0      | 6.18                    | <=13  | Pass    |
| 64QAM                             | 829             | 50            | 0      | 5.96                    | <=13  | Pass    |
|                                   | 836.5           | 50            | 0      | 5.97                    | <=13  | Pass    |
|                                   | 844             | 50            | 0      | 5.99                    | <=13  | Pass    |



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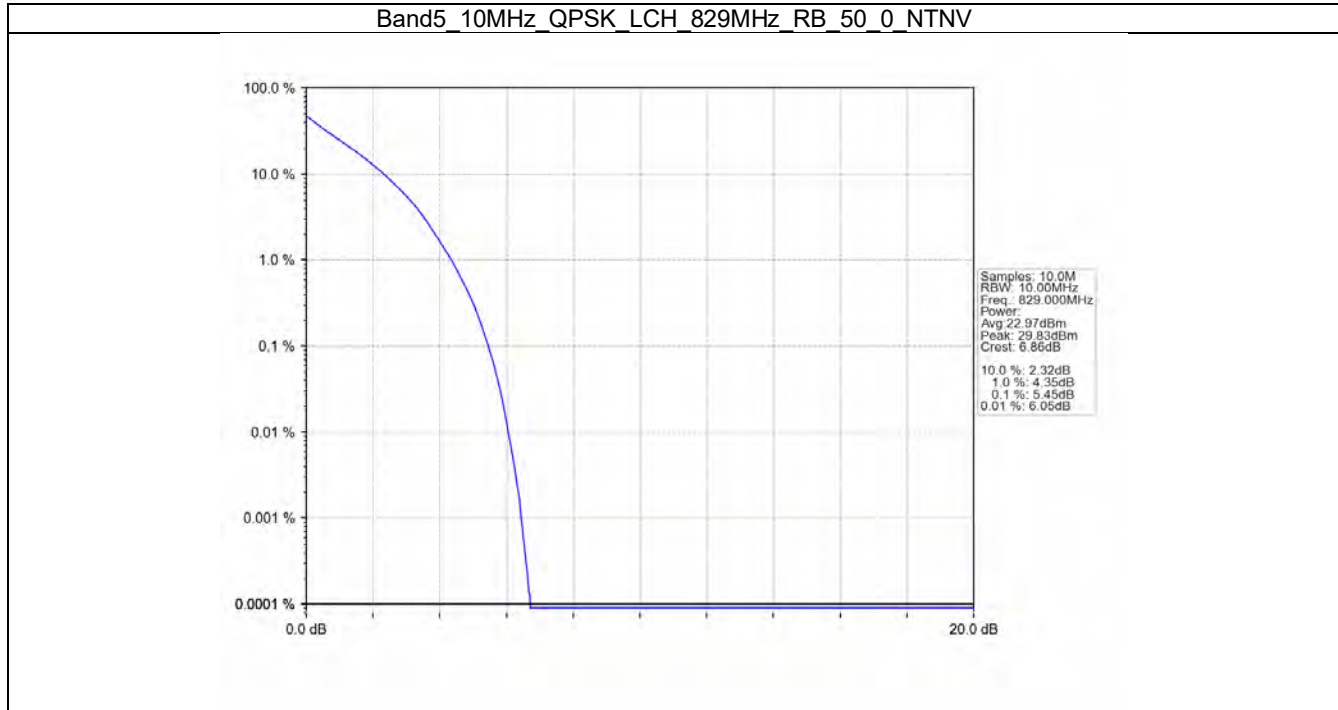
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Report No.: SZCR240200059401  
Rev.: 01  
Page: 87 of 144

## 5.4.2 Test Graph



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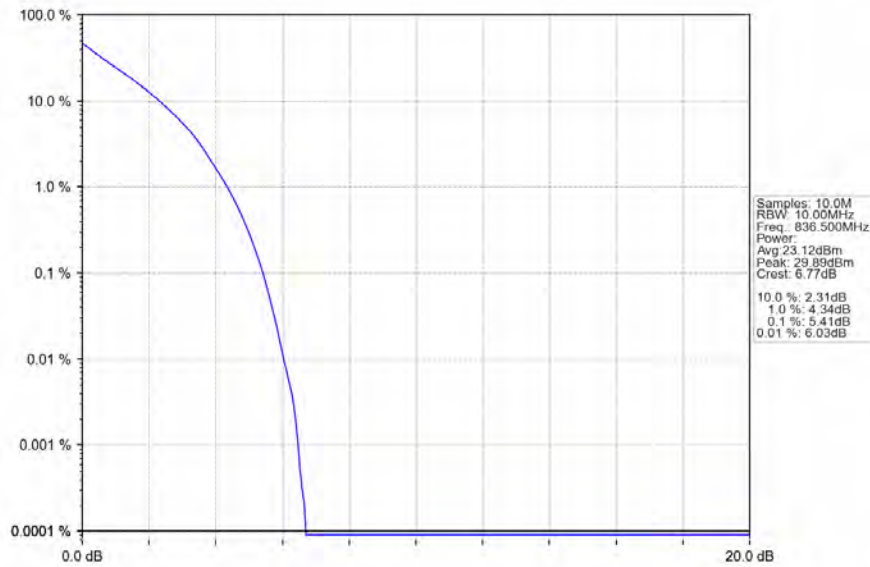
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Page: 88 of 144

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



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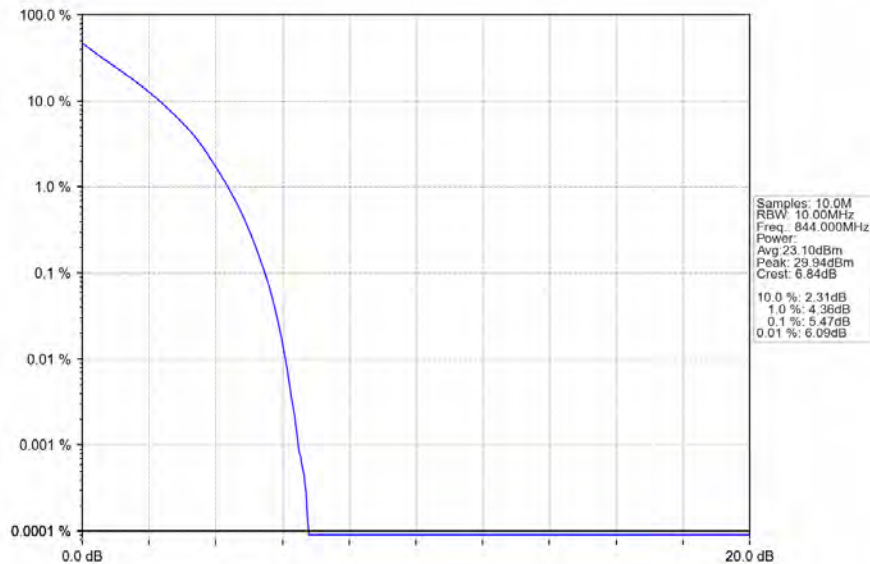
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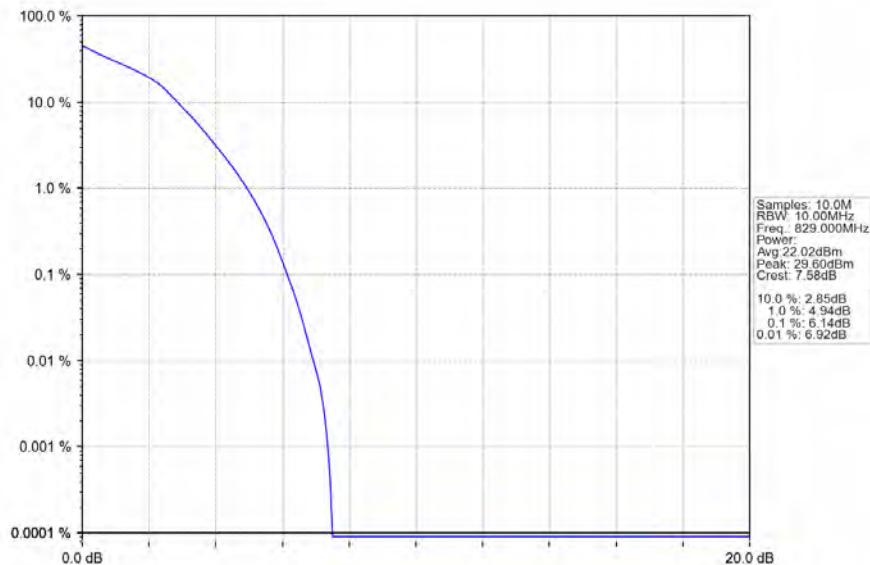
Rev.: 01

Page: 89 of 144

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



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



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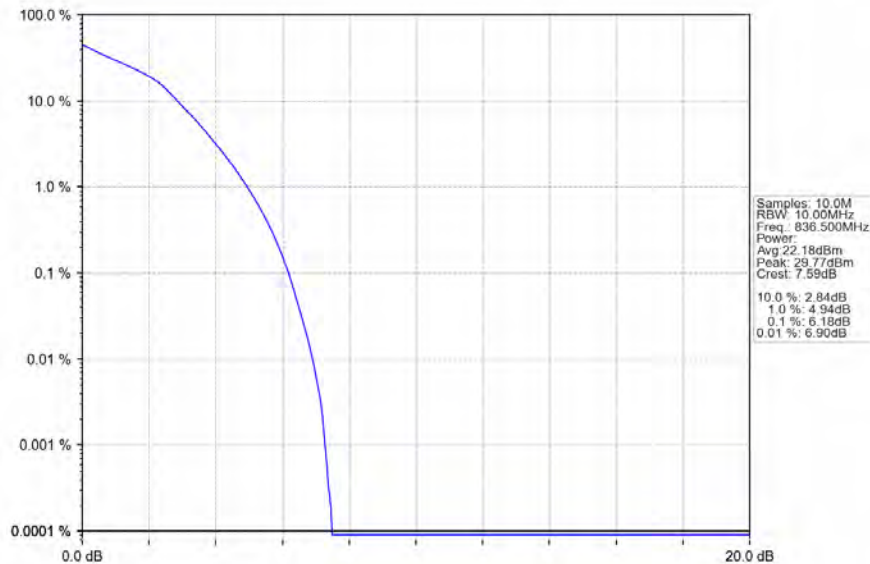
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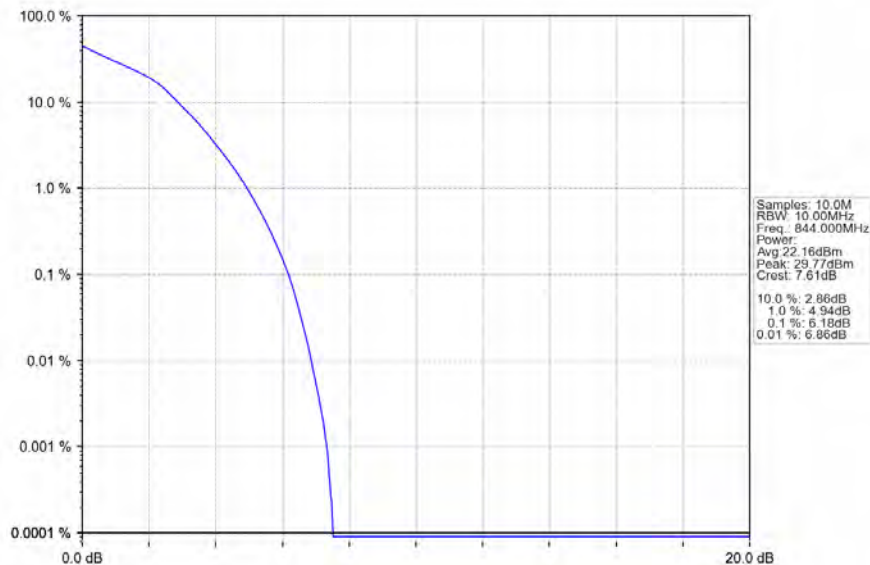
Rev.: 01

Page: 90 of 144

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



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



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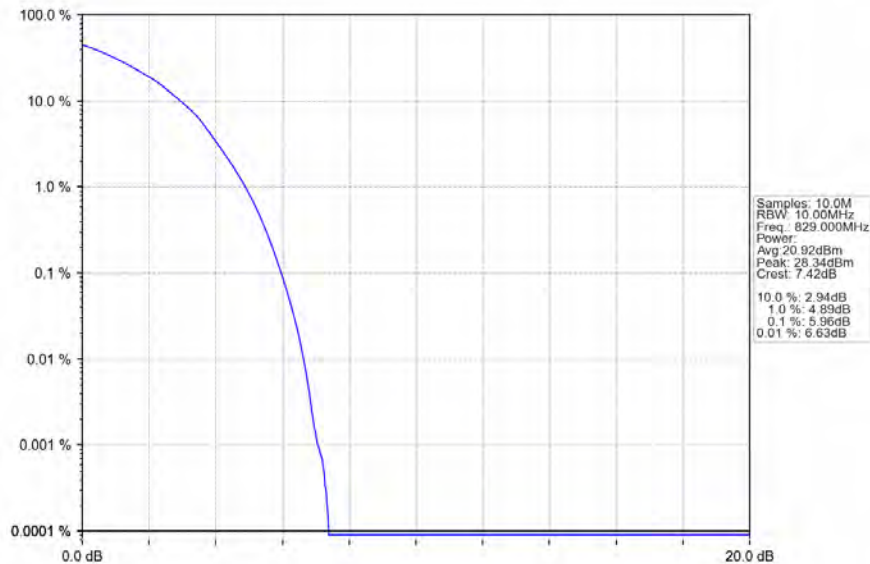
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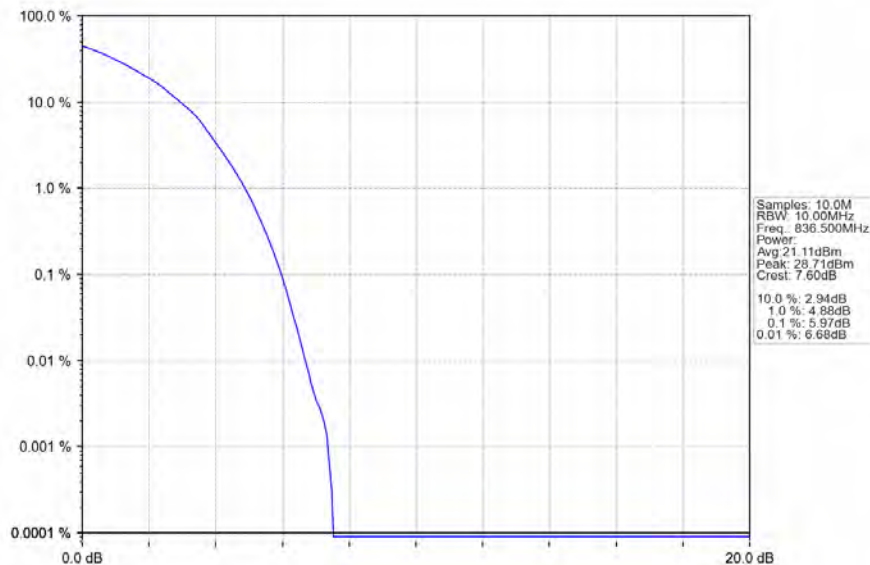
Rev.: 01

Page: 91 of 144

Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_64QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



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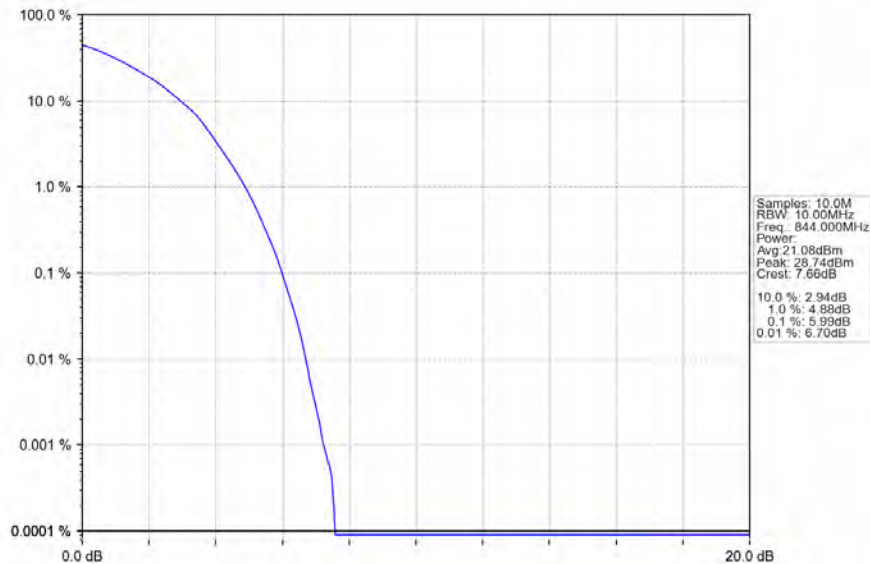
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Report No.: SZCR240200059401

Rev.: 01

Page: 92 of 144

Band5\_10MHz\_64QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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Report No.: SZCR240200059401  
Rev.: 01  
Page: 93 of 144

## 6. Spurious Emission & Band Edge

### 6.1 B5\_1.4MHz

#### 6.1.1 Test Result

| 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  |
|                                    | 848.3           | 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  |
|                                    | 848.3           | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 |               | 5      | Refer To Test Graph | Pass  |
|                                    |                 | 6             | 0      | Refer To Test Graph | Pass  |
| 64QAM                              | 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  |
|                                    | 848.3           | 1             | 0      | Refer To Test Graph | Pass  |
|                                    |                 |               | 5      | Refer To Test Graph | Pass  |
|                                    |                 | 6             | 0      | Refer To Test Graph | Pass  |



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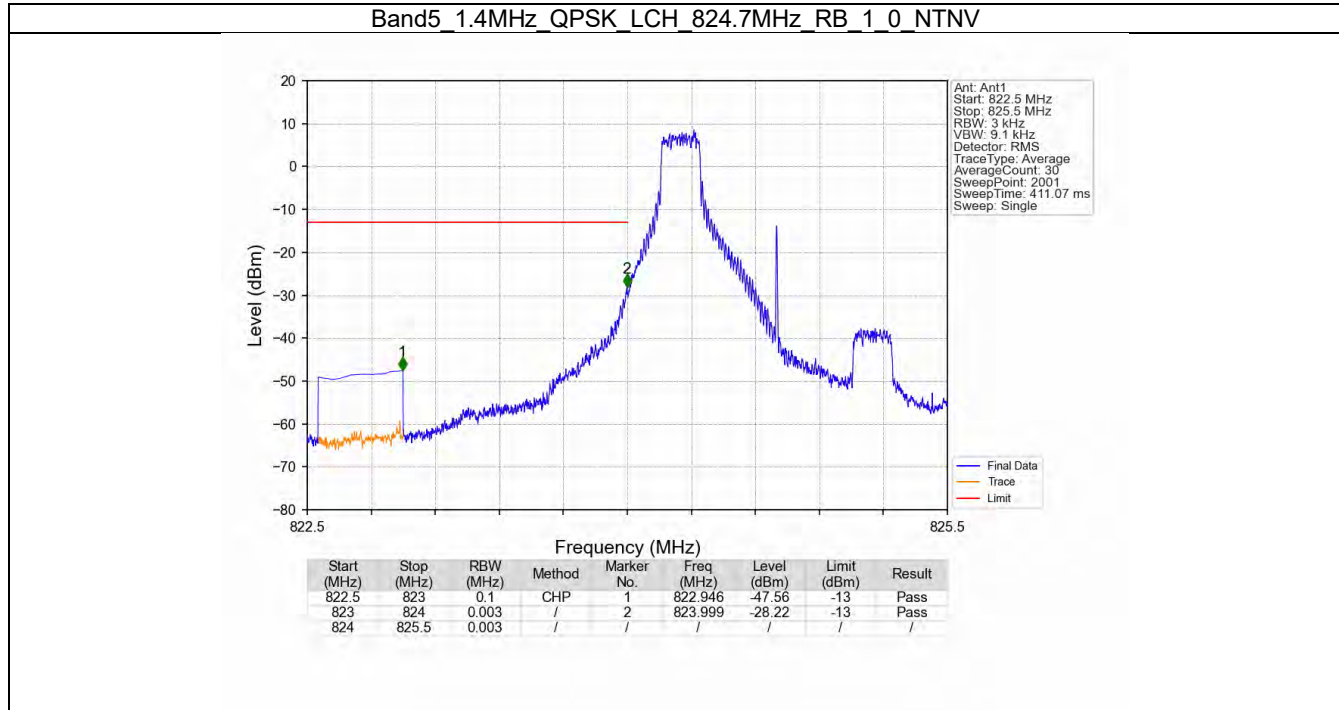
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Report No.: SZCR240200059401

Rev.: 01

Page: 94 of 144

## 6.1.2 Test Graph



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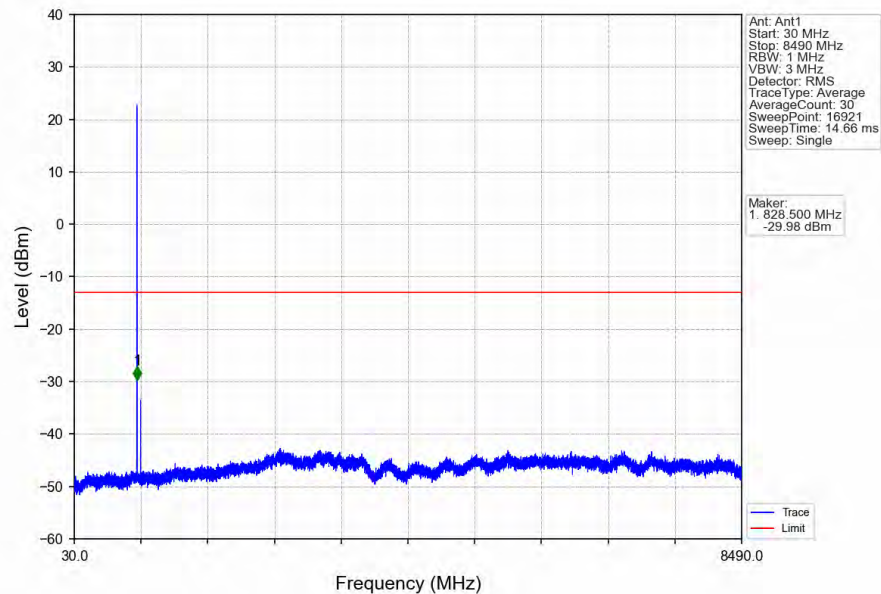
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Report No.: SZCR240200059401

Rev.: 01

Page: 95 of 144

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



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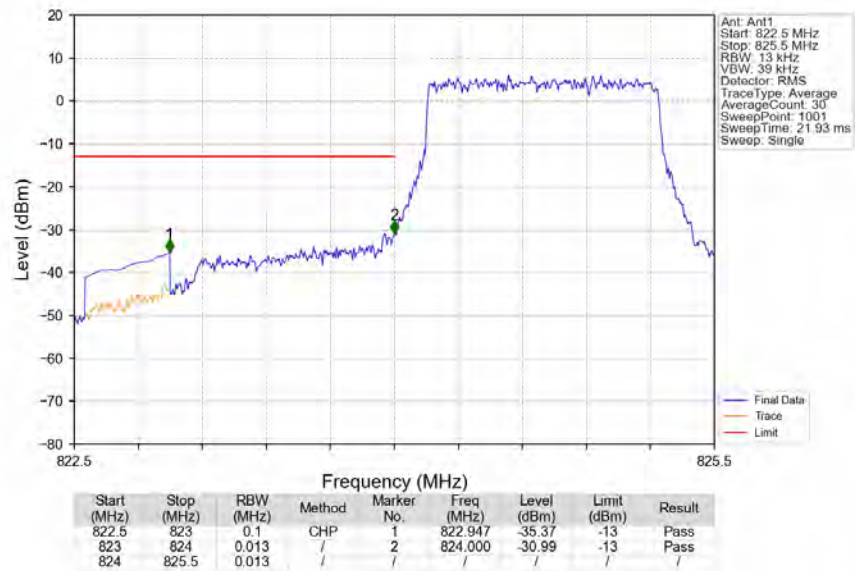
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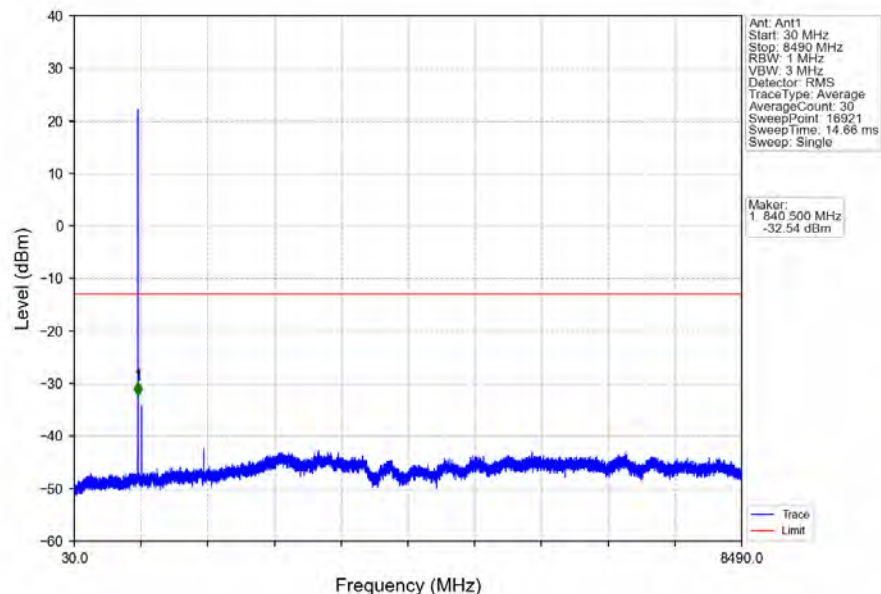
Rev.: 01

Page: 96 of 144

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



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



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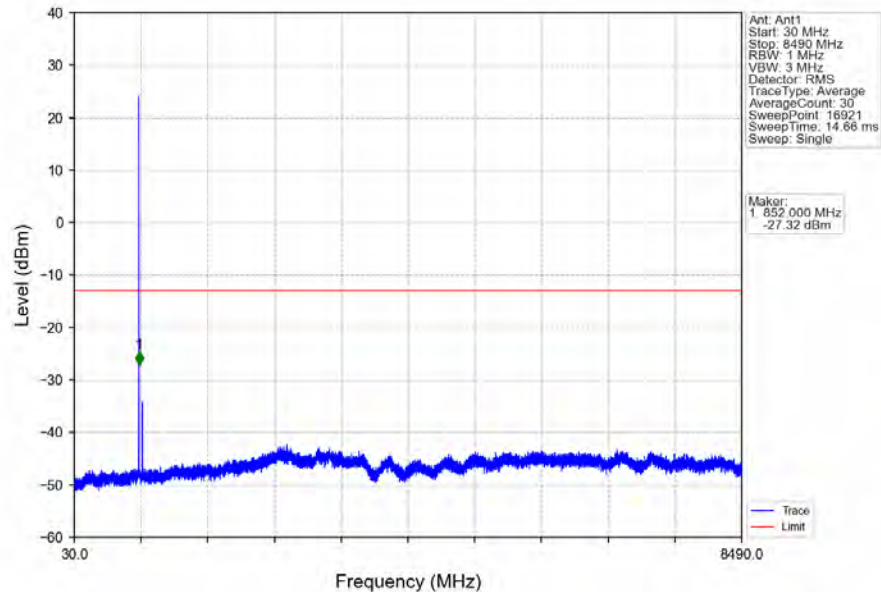
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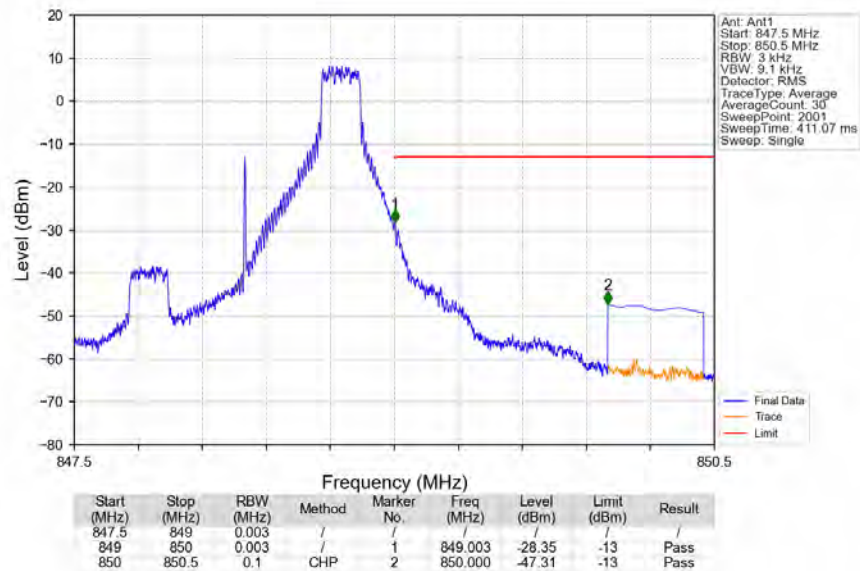
Rev.: 01

Page: 97 of 144

and5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_5\_NTNV



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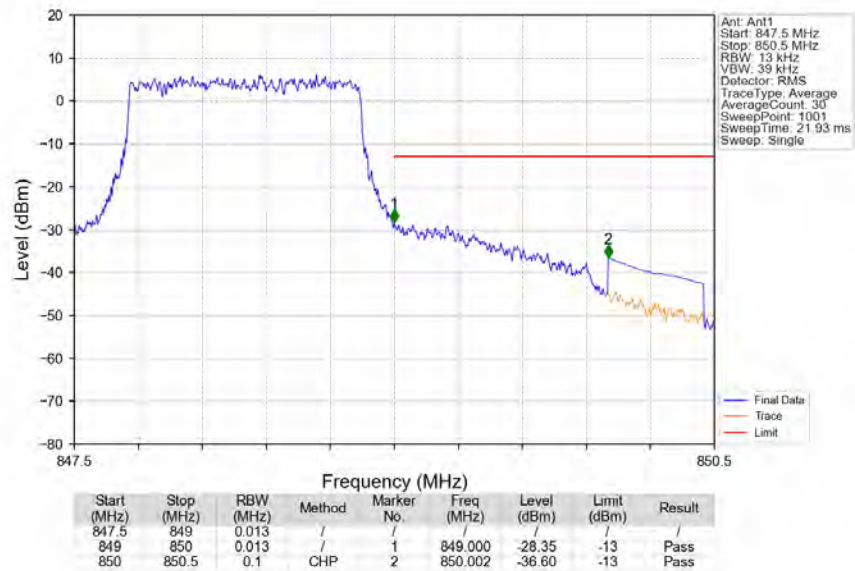
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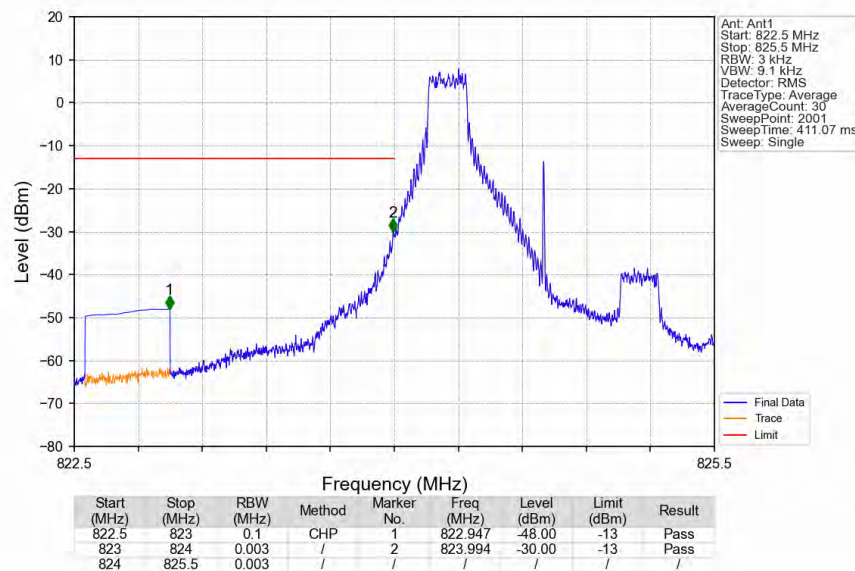
Rev.: 01

Page: 98 of 144

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



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



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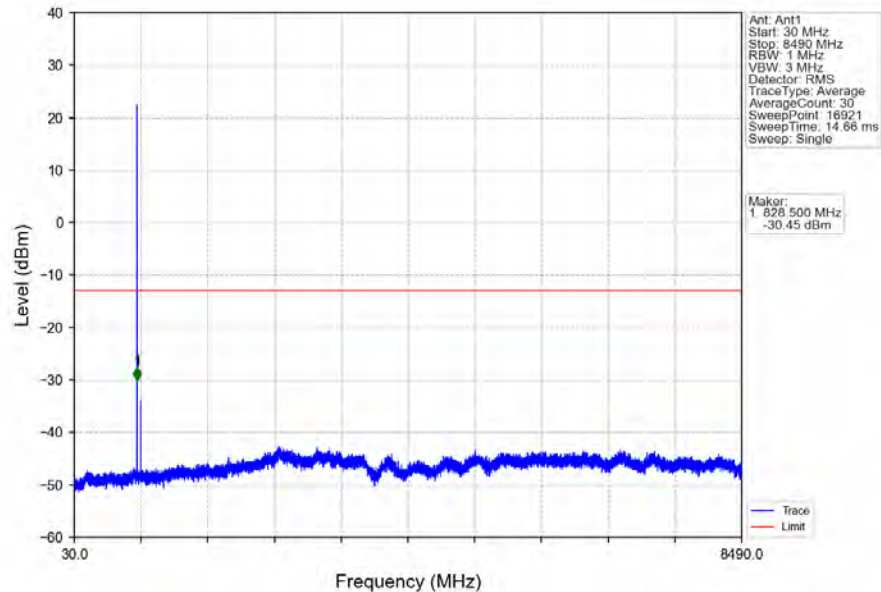
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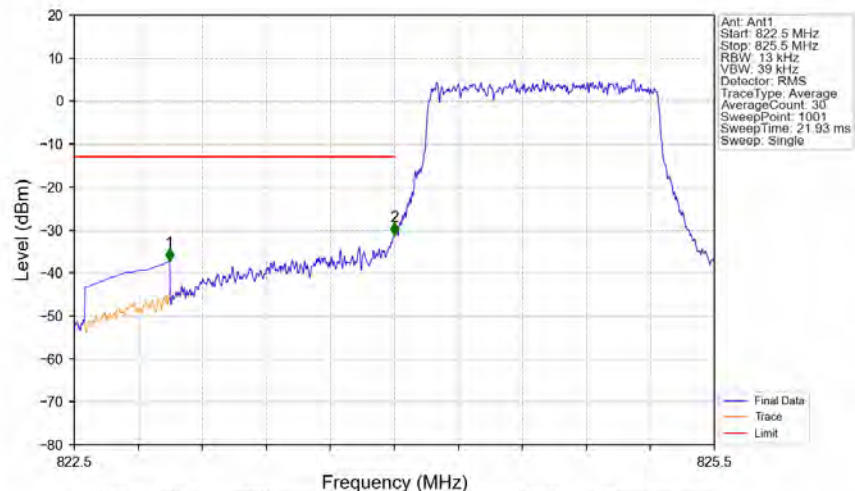
Rev.: 01

Page: 99 of 144

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



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



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 822.5       | 823        | 0.1       | CHP    | 1          | 822.947    | -37.32      | -13         | Pass   |
| 823         | 824        | 0.013     | /      | 2          | 824.000    | -31.37      | -13         | Pass   |
| 824         | 825.5      | 0.013     | /      | /          | /          | /           | /           | /      |



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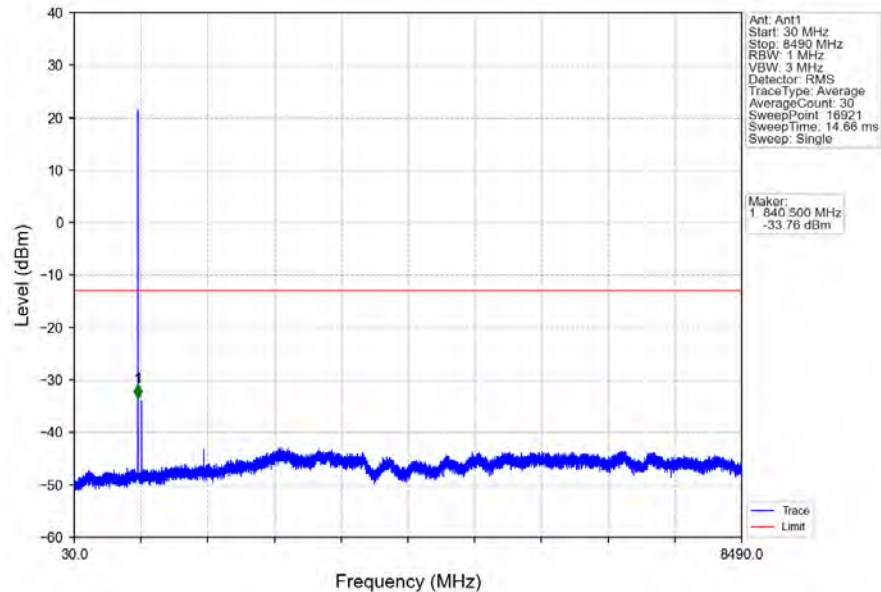
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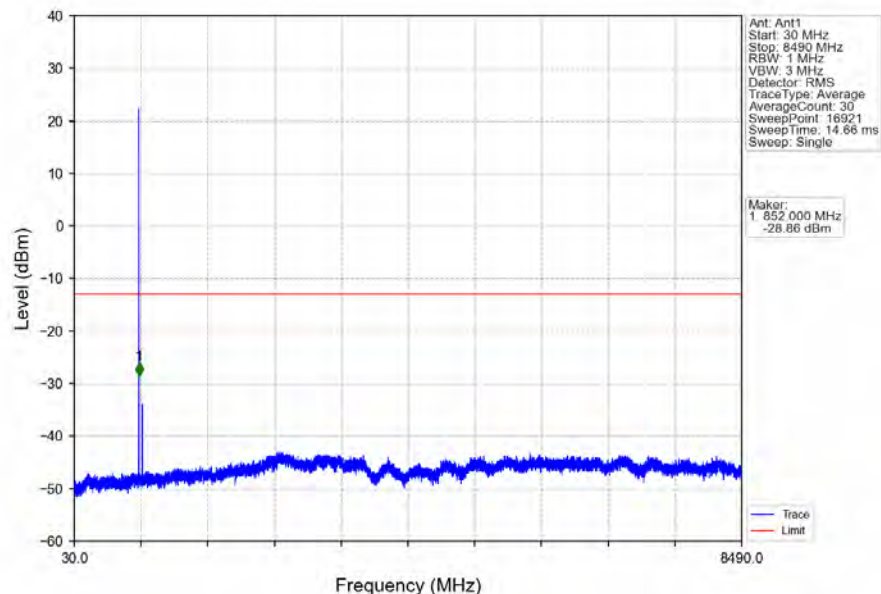
Rev.: 01

Page: 100 of 144

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



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



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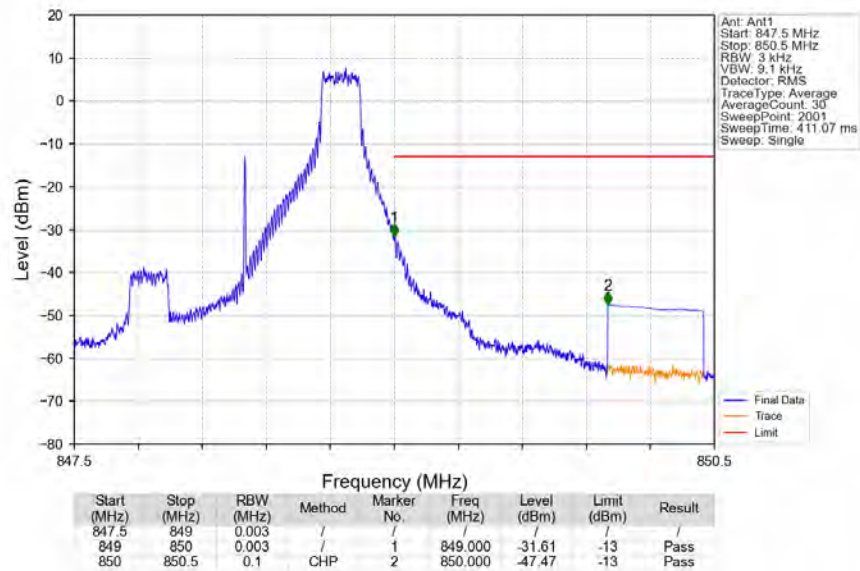
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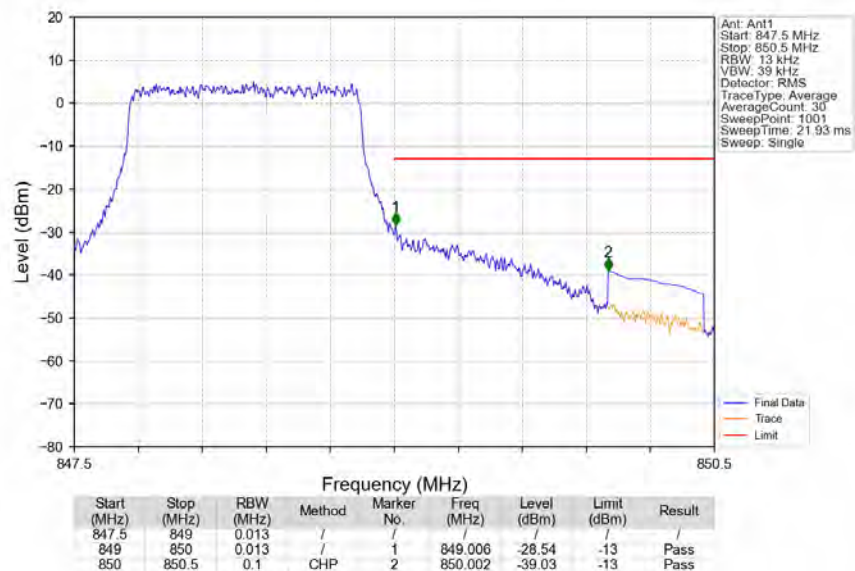
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Page: 101 of 144

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



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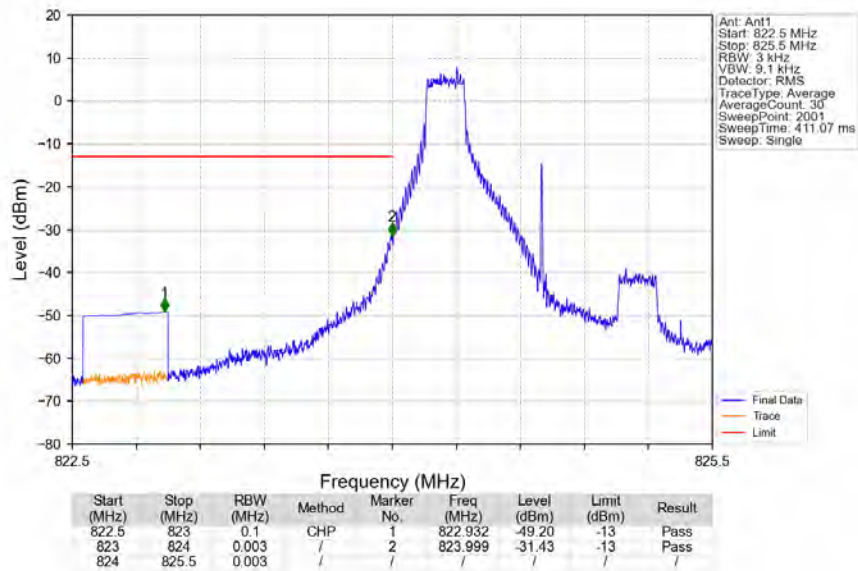
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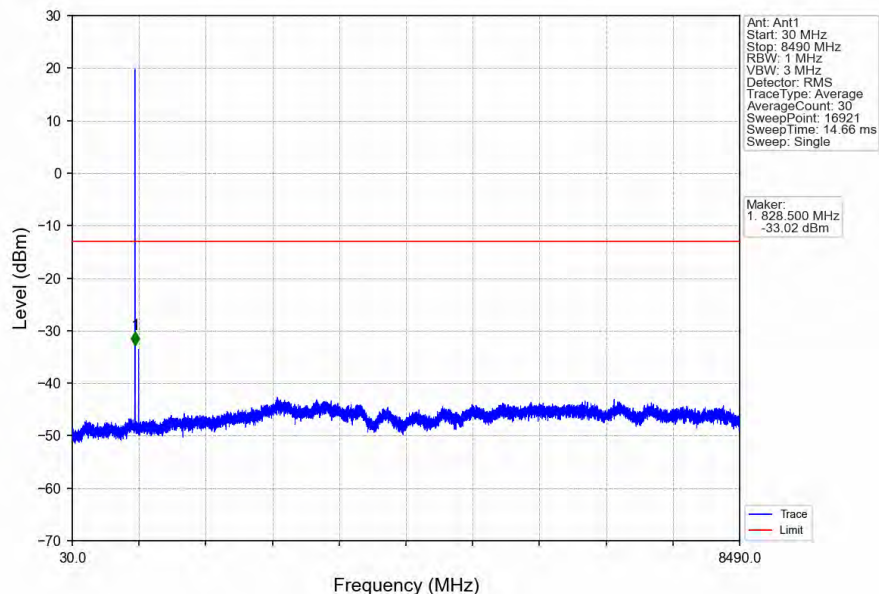
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Page: 102 of 144

Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV



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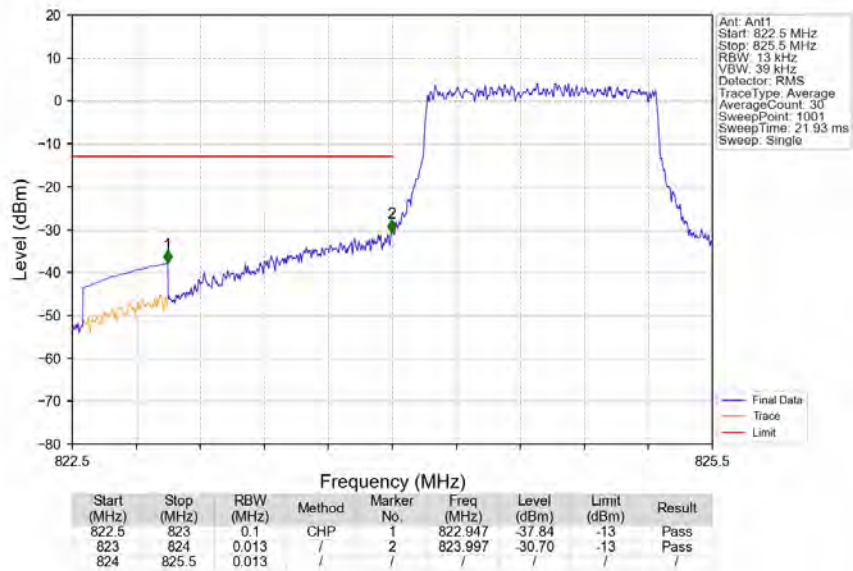
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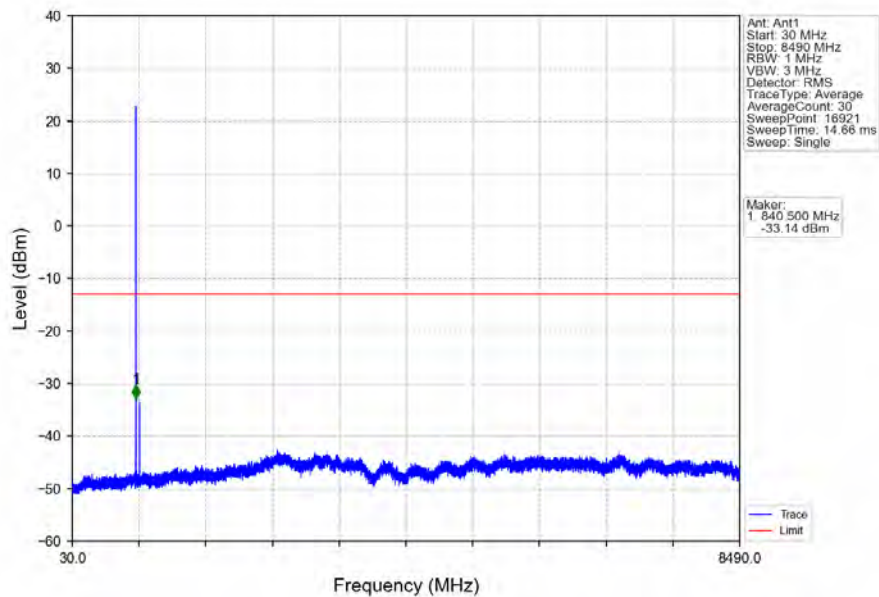
Rev.: 01

Page: 103 of 144

Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_64QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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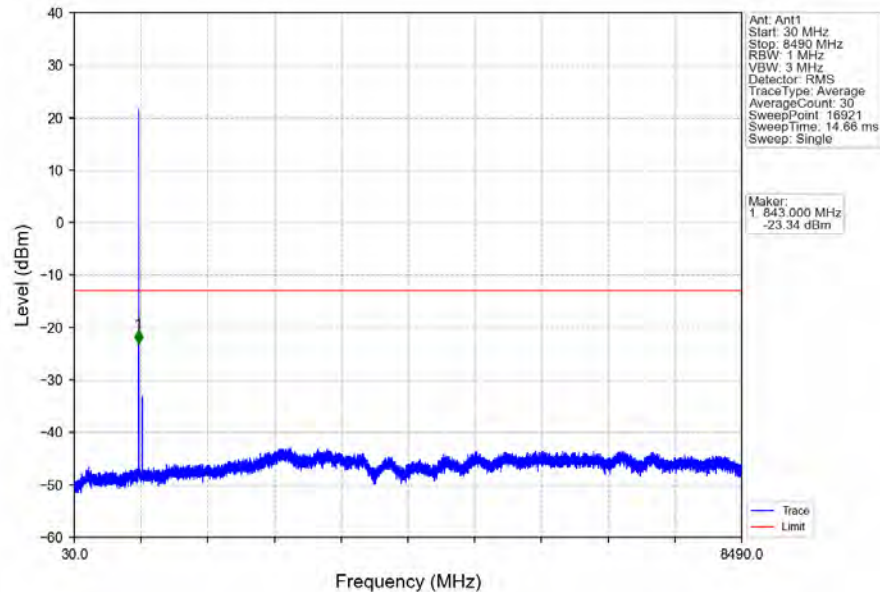
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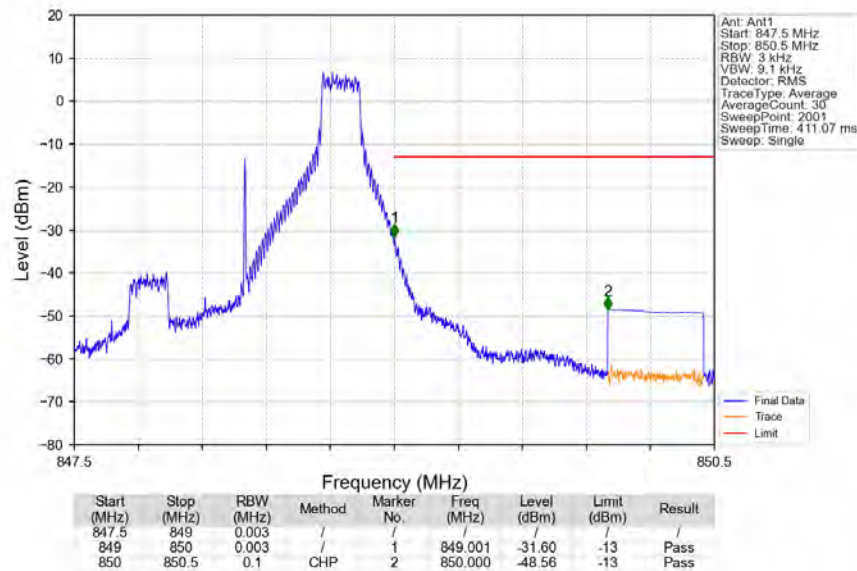
Rev.: 01

Page: 104 of 144

Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_1\_5\_NTNV



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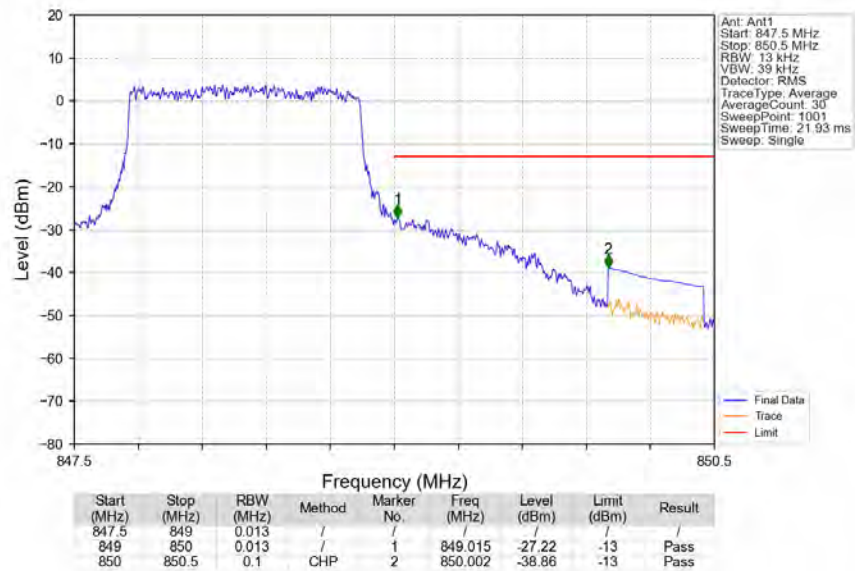
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Rev.: 01

Page: 105 of 144

Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



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Report No.: SZCR240200059401  
Rev.: 01  
Page: 106 of 144

## 6.2 B5\_3MHz

### 6.2.1 Test Result

| 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  |
|                                  | 847.5           | 1             | 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  |
|                                  | 847.5           | 1             | 14     | Refer To Test Graph | Pass  |
|                                  |                 | 15            | 0      | Refer To Test Graph | Pass  |
| 64QAM                            | 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  |
|                                  | 847.5           | 1             | 14     | Refer To Test Graph | Pass  |
|                                  |                 | 15            | 0      | Refer To Test Graph | Pass  |



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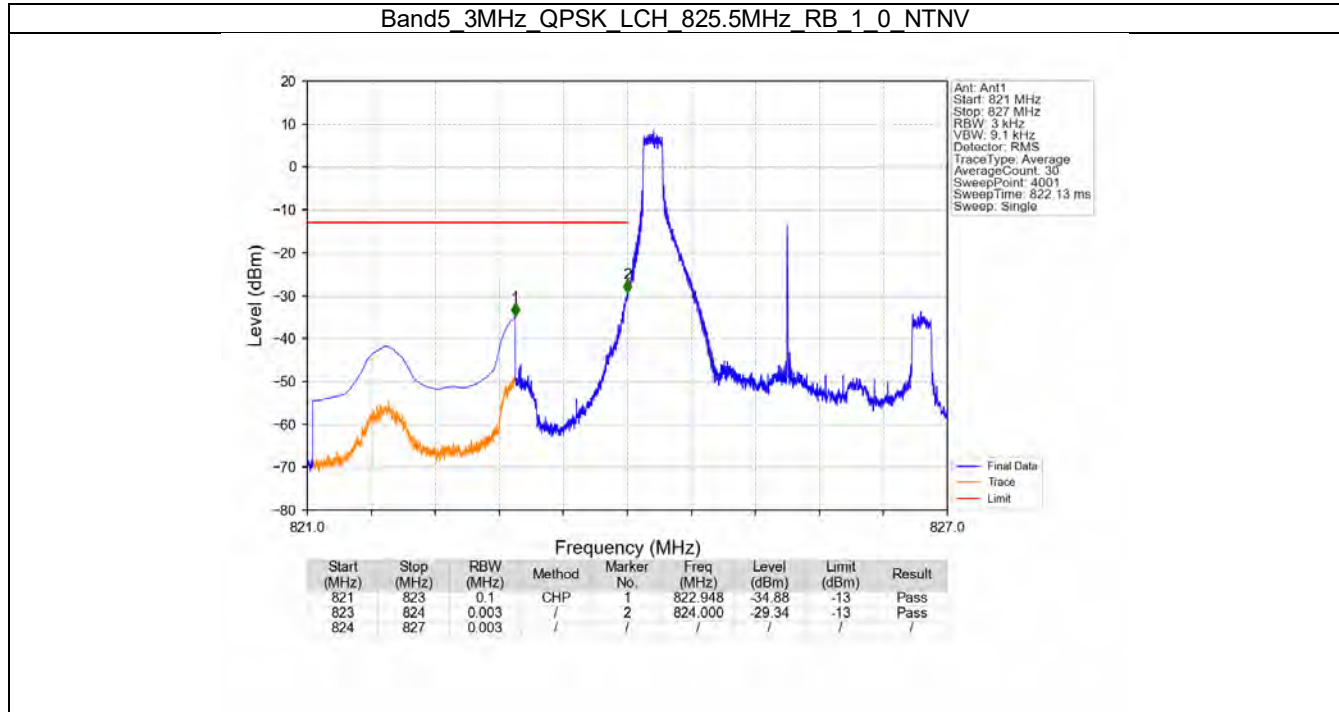
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Rev.: 01

Page: 107 of 144

## 6.2.2 Test Graph



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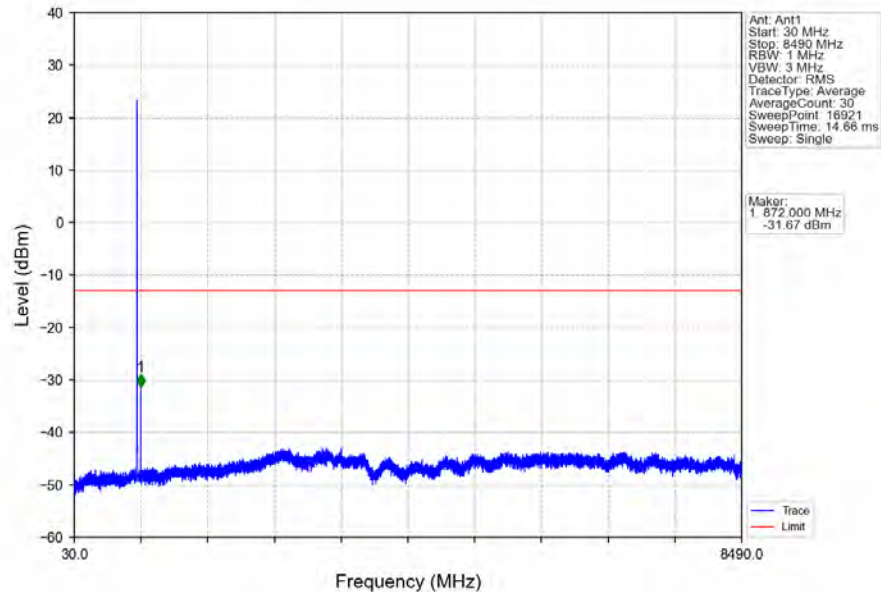
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Page: 108 of 144

Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



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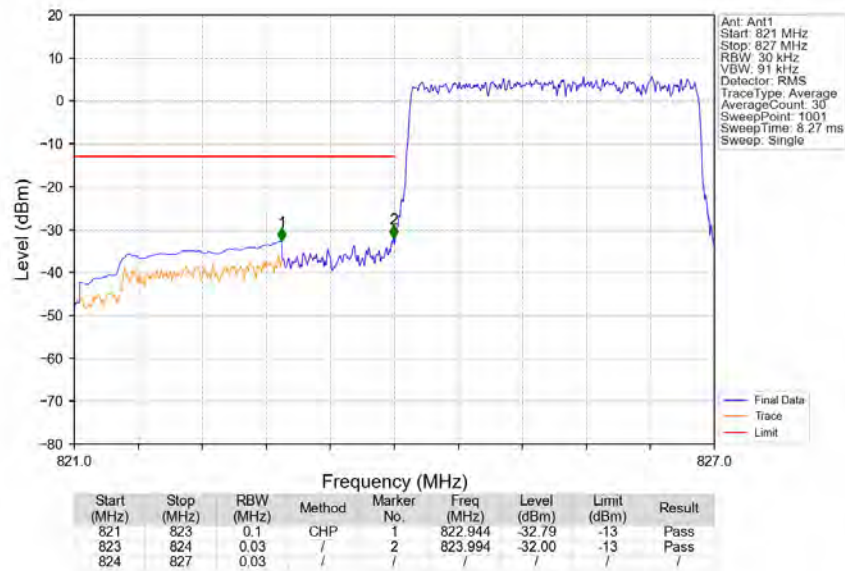
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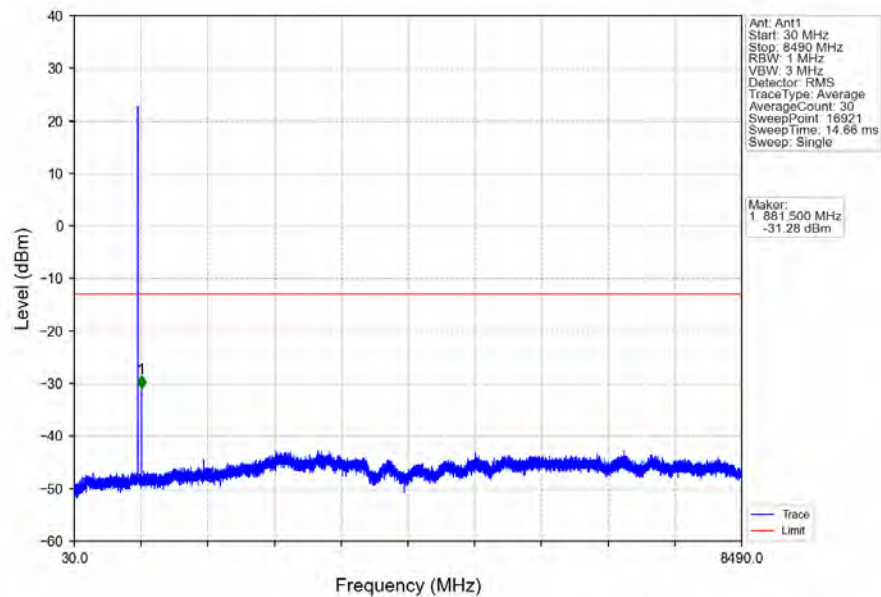
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Page: 109 of 144

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



Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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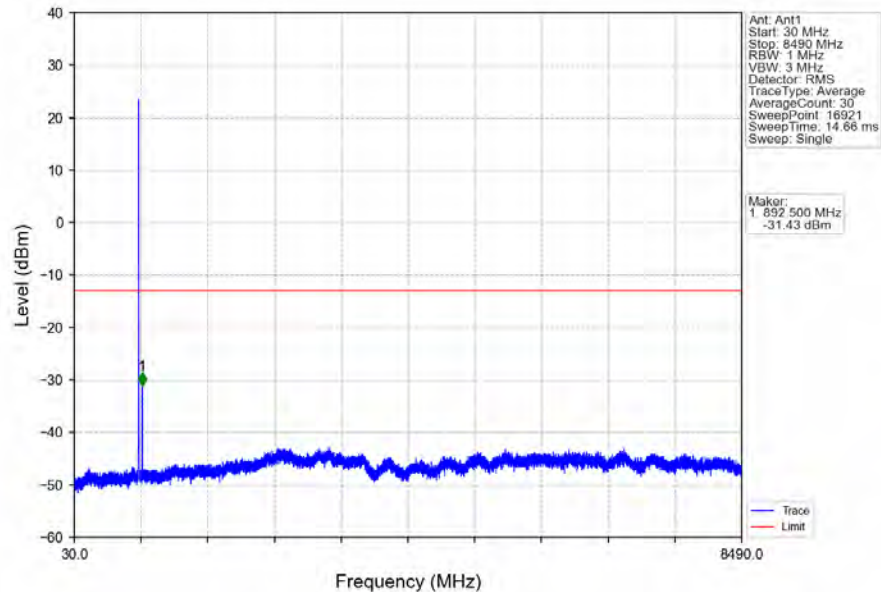
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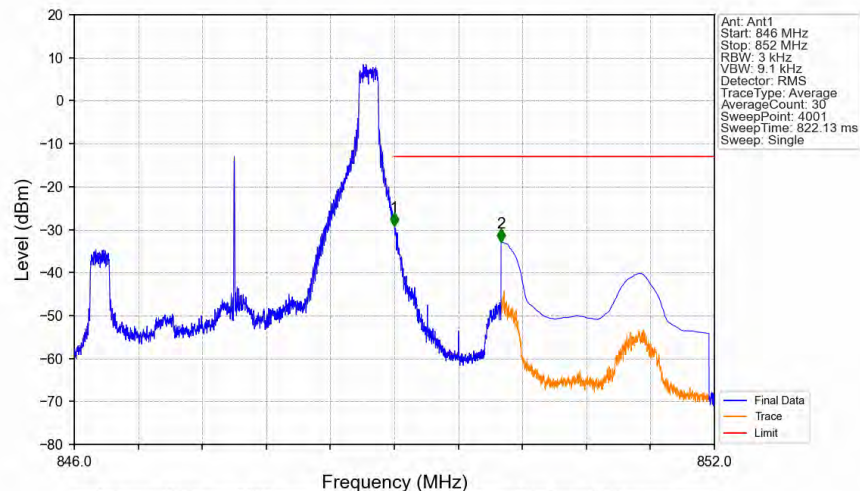
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Page: 110 of 144

Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_14\_NTNV



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 846         | 849        | 0.003     | /      | 1          | 849.000    | -29.17      | -13         | Pass   |
| 849         | 850        | 0.003     | /      | 1          | 849.000    | -29.17      | -13         | Pass   |
| 850         | 852        | 0.1       | CHP    | 2          | 850.002    | -32.93      | -13         | Pass   |



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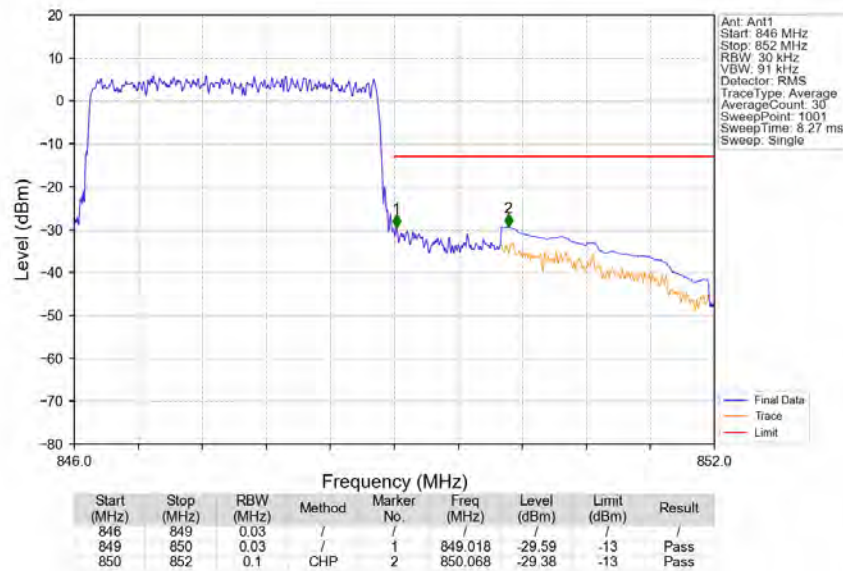
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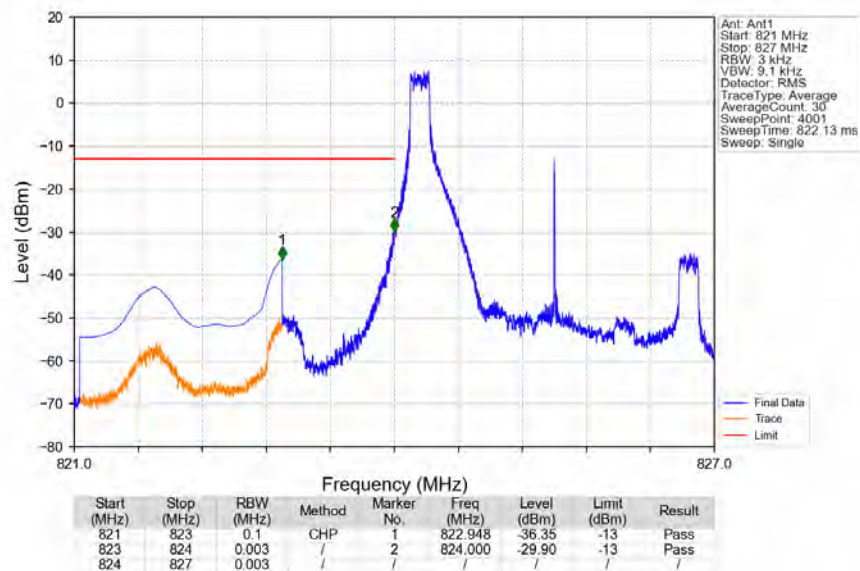
Rev.: 01

Page: 111 of 144

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



Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



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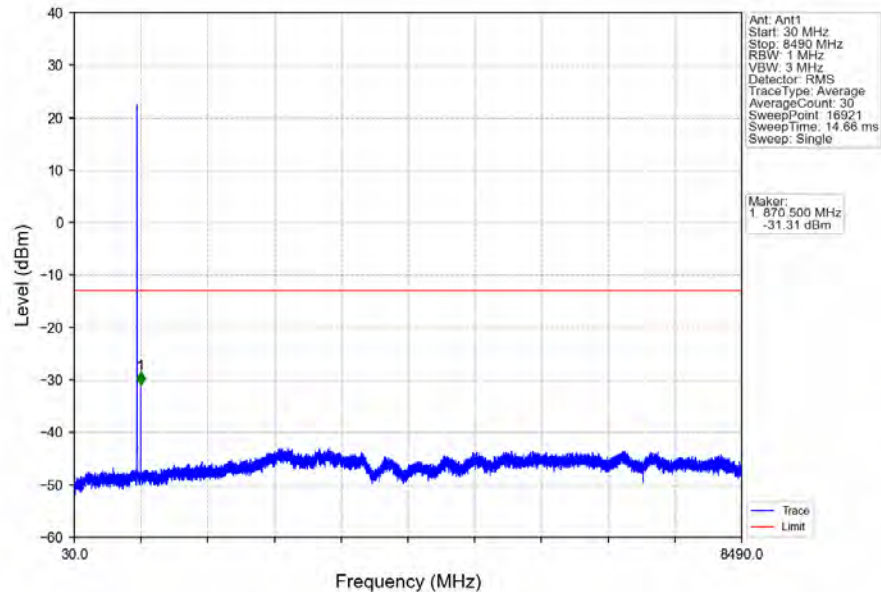
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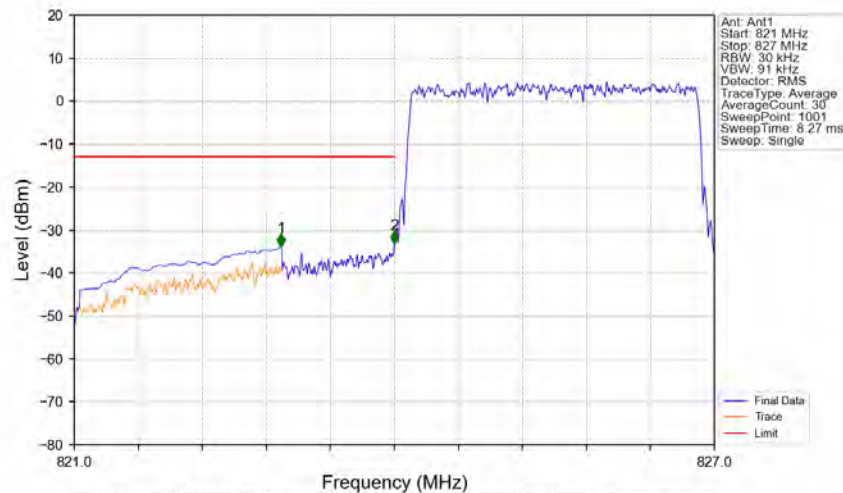
Rev.: 01

Page: 112 of 144

Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



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



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 821         | 823        | 0.1       | CHP    | 1          | 822.938    | -34.04      | -13         | Pass   |
| 823         | 824        | 0.03      | /      | 2          | 824.000    | -33.27      | -13         | Pass   |
| 824         | 827        | 0.03      | /      | /          | /          | /           | /           | /      |



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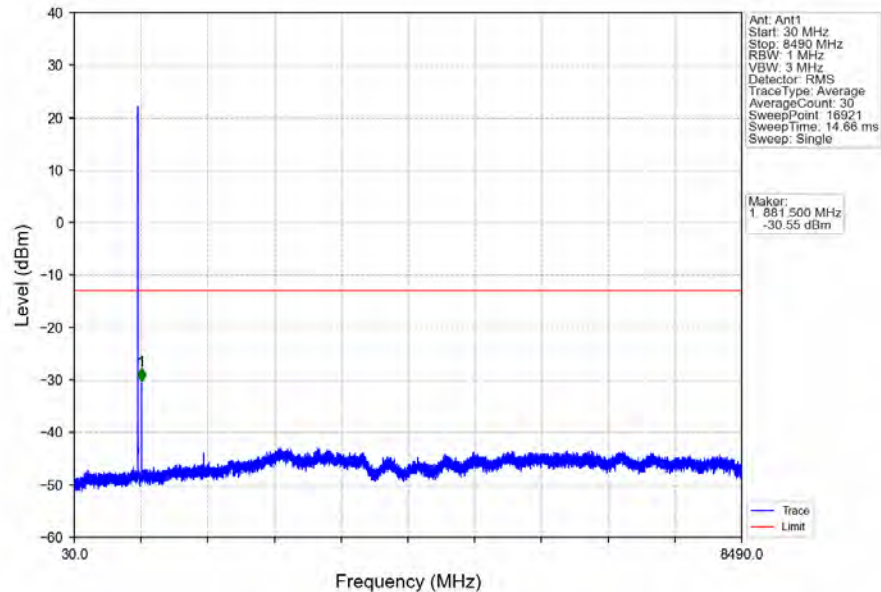
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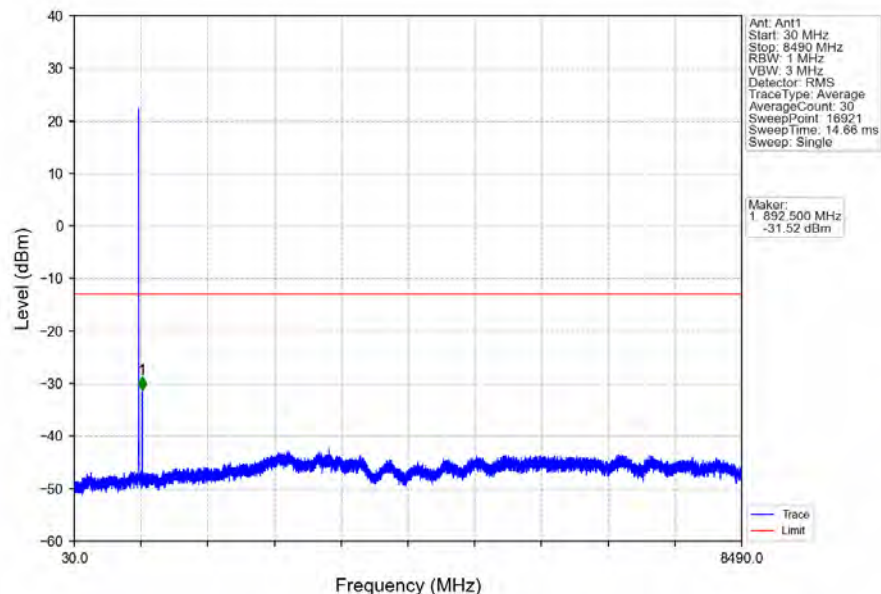
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Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



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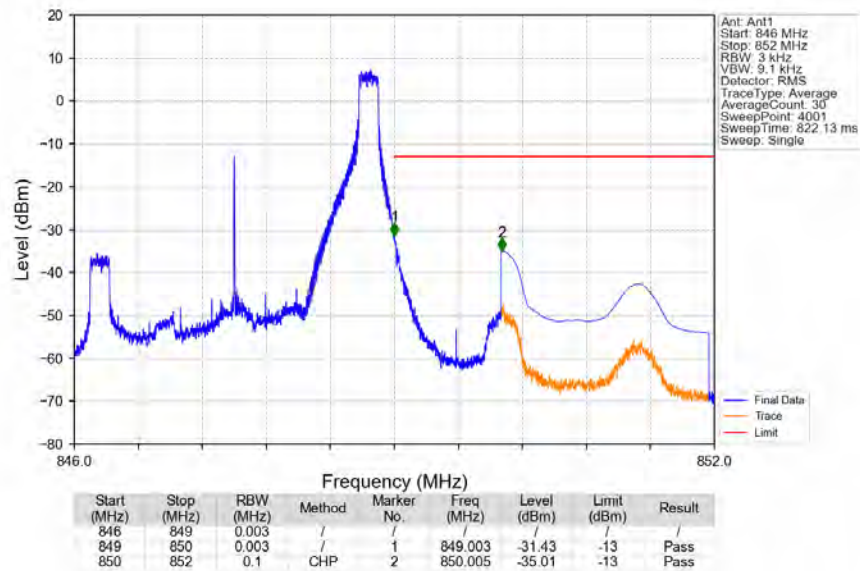
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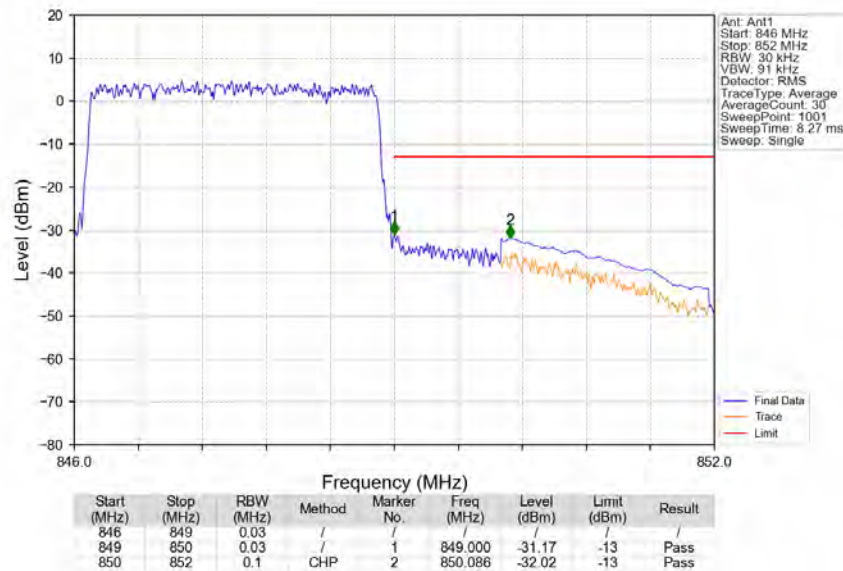
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Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_1\_14\_NTNV



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



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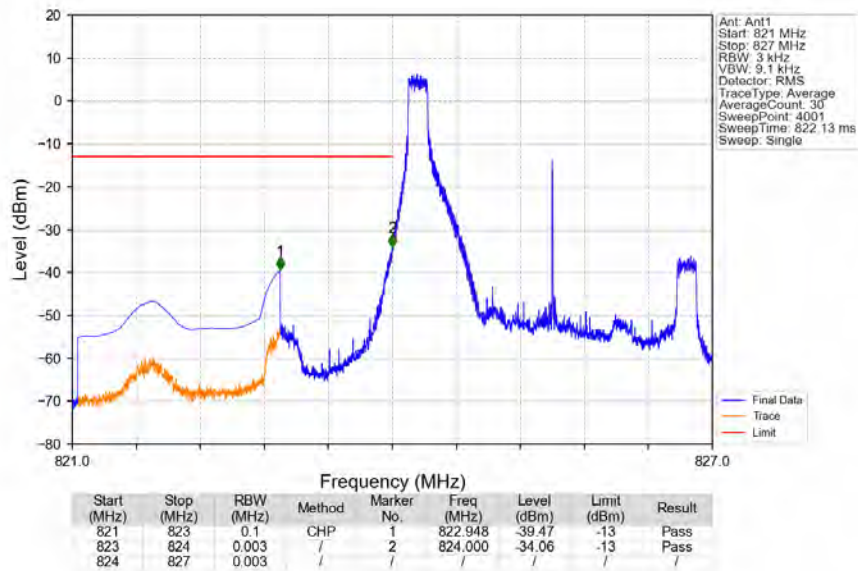
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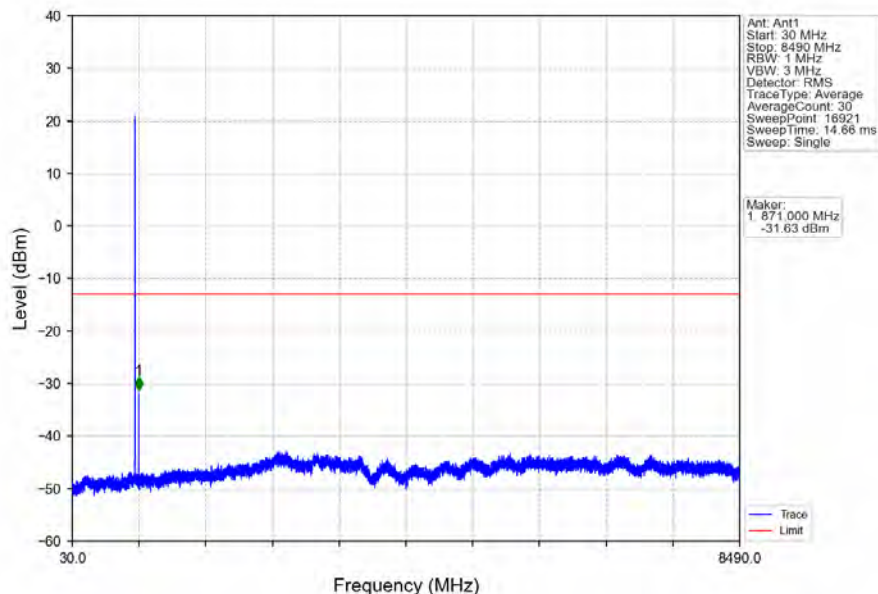
Rev.: 01

Page: 115 of 144

Band5\_3MHz\_64QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_64QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



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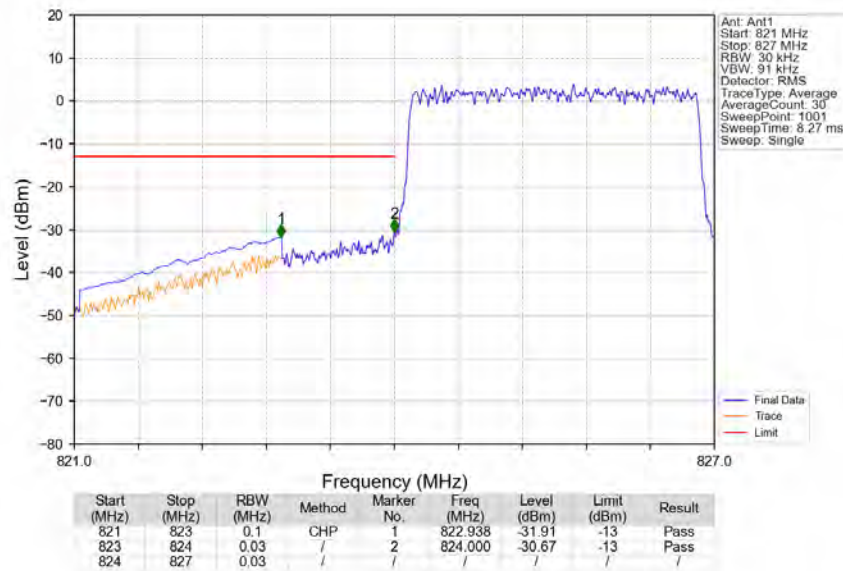
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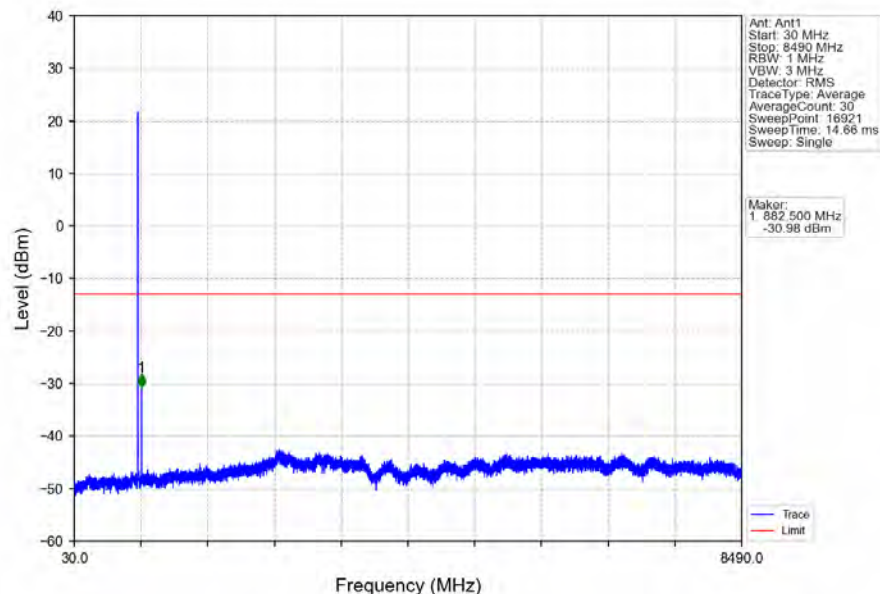
Rev.: 01

Page: 116 of 144

Band5\_3MHz\_64QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_64QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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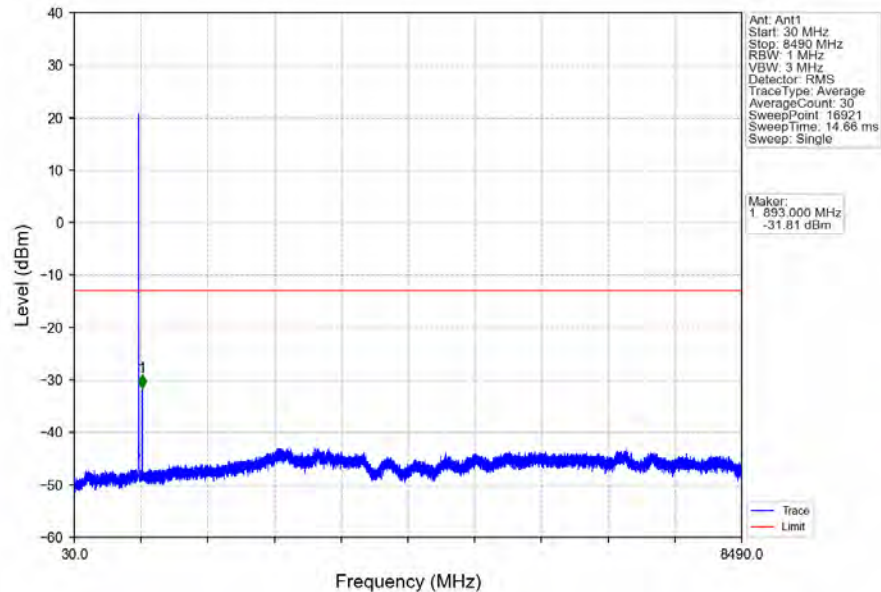
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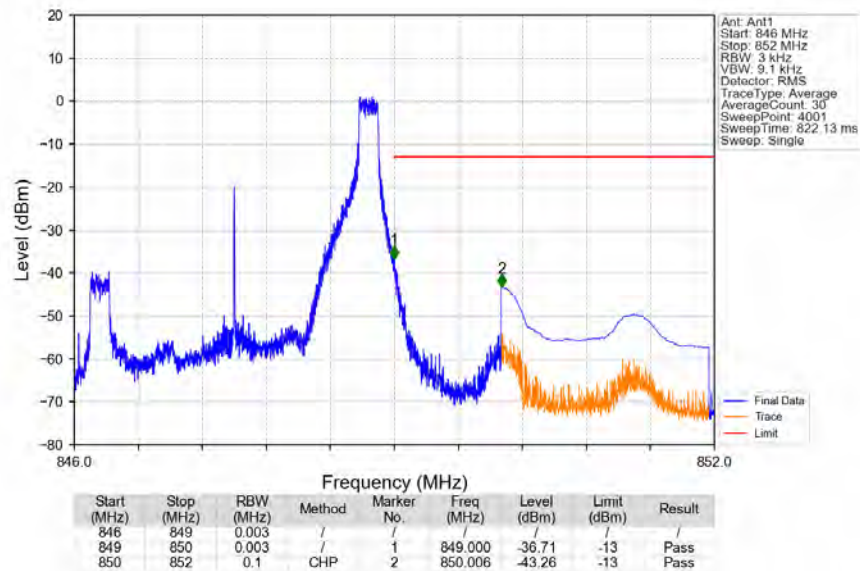
Rev.: 01

Page: 117 of 144

Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_1\_14\_NTNV



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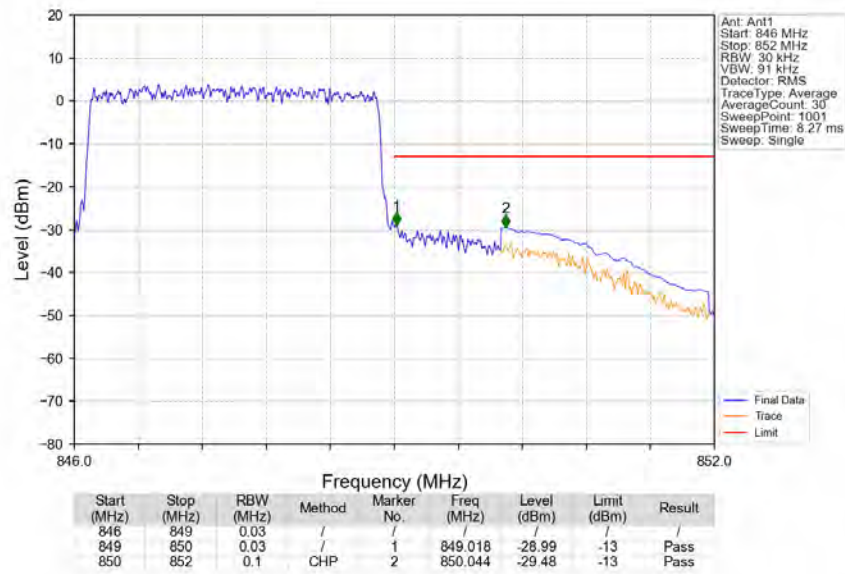
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Report No.: SZCR240200059401

Rev.: 01

Page: 118 of 144

Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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Report No.: SZCR240200059401

Rev.: 01

Page: 119 of 144

## 6.3 B5\_5MHz

### 6.3.1 Test Result

| 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  |
|                                  | 846.5           | 1             | 24     | Refer To Test Graph | Pass  |
|                                  |                 | 25            | 0      | Refer To Test Graph | Pass  |
| 16QAM                            | 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  |
|                                  | 846.5           | 1             | 24     | Refer To Test Graph | Pass  |
|                                  |                 | 25            | 0      | Refer To Test Graph | Pass  |
| 64QAM                            | 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  |
|                                  | 846.5           | 1             | 24     | Refer To Test Graph | Pass  |
|                                  |                 | 25            | 0      | Refer To Test Graph | Pass  |



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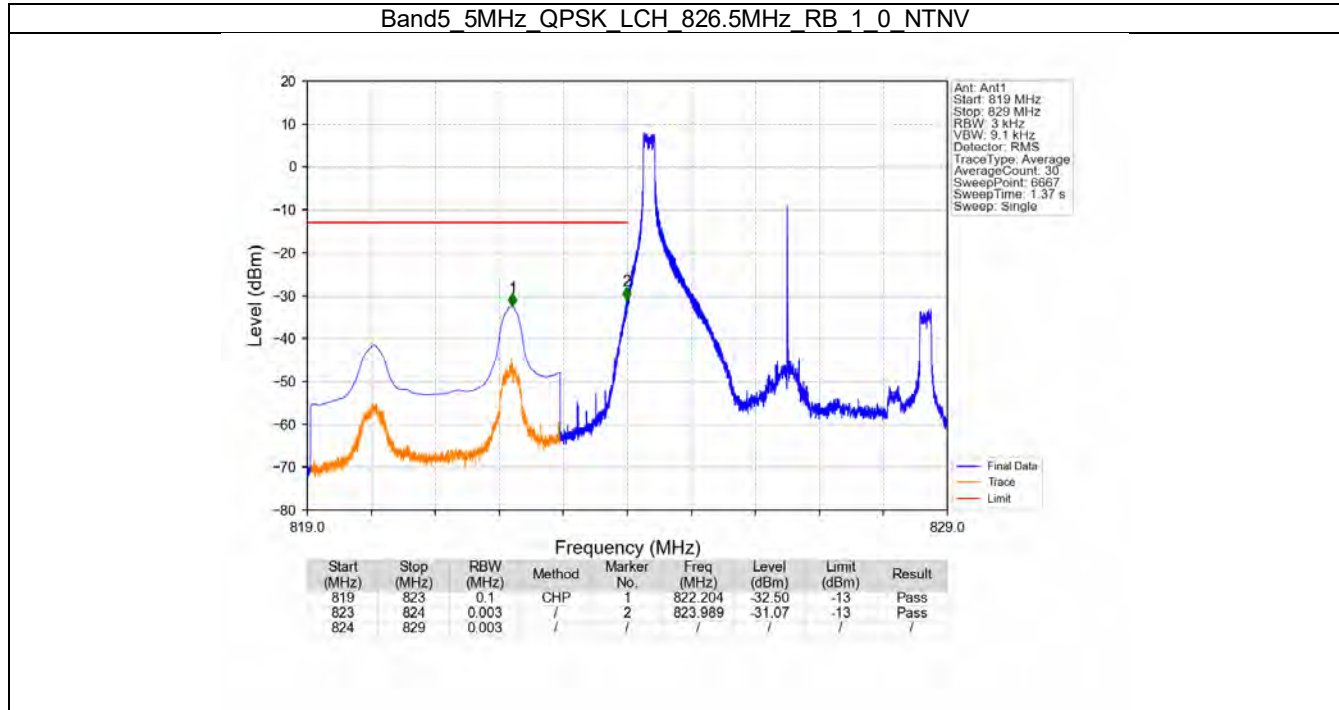
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Report No.: SZCR240200059401

Rev.: 01

Page: 120 of 144

## 6.3.2 Test Graph



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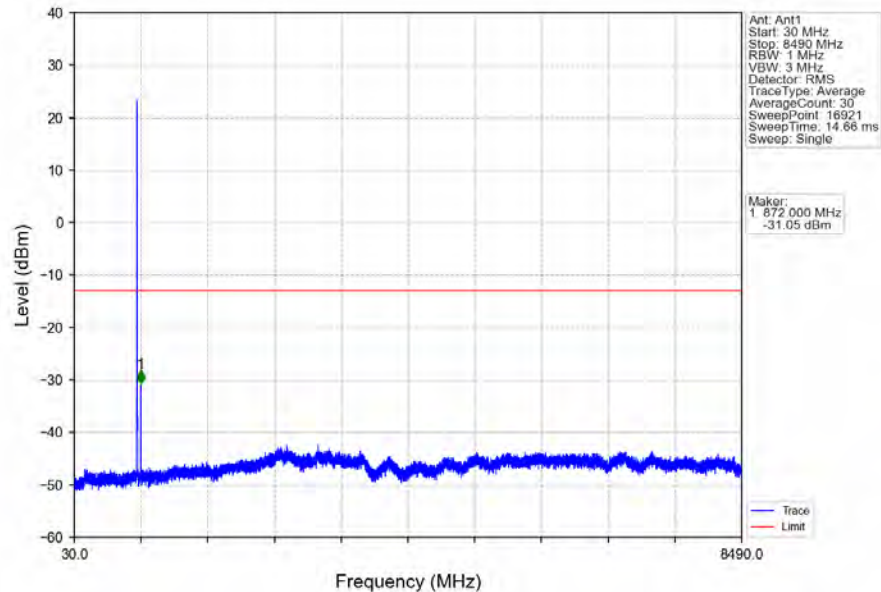
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Report No.: SZCR240200059401

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Page: 121 of 144

Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_1\_0\_NTNV



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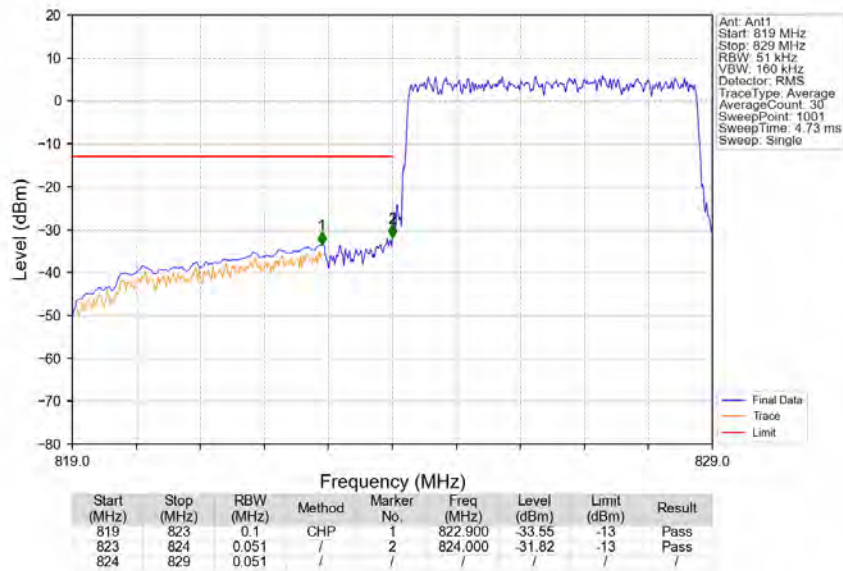
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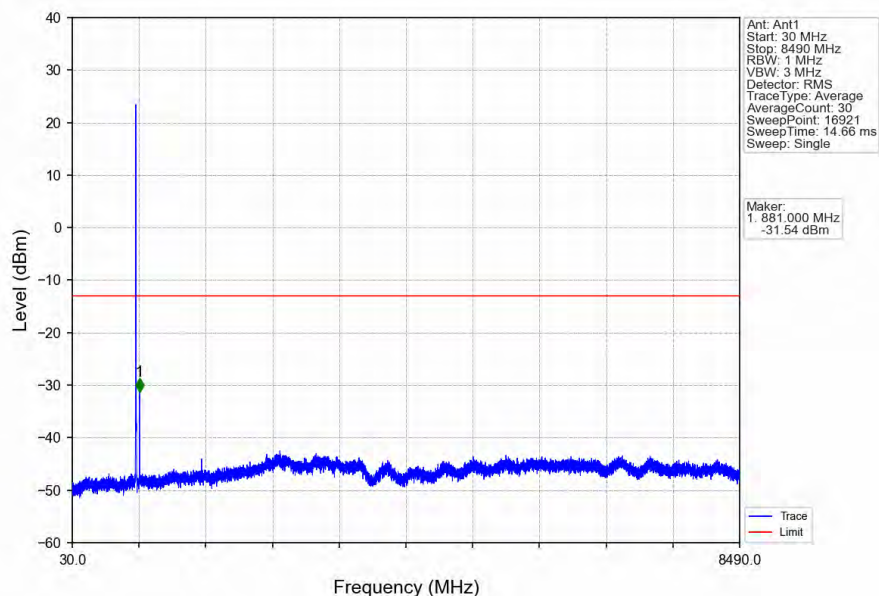
Rev.: 01

Page: 122 of 144

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



Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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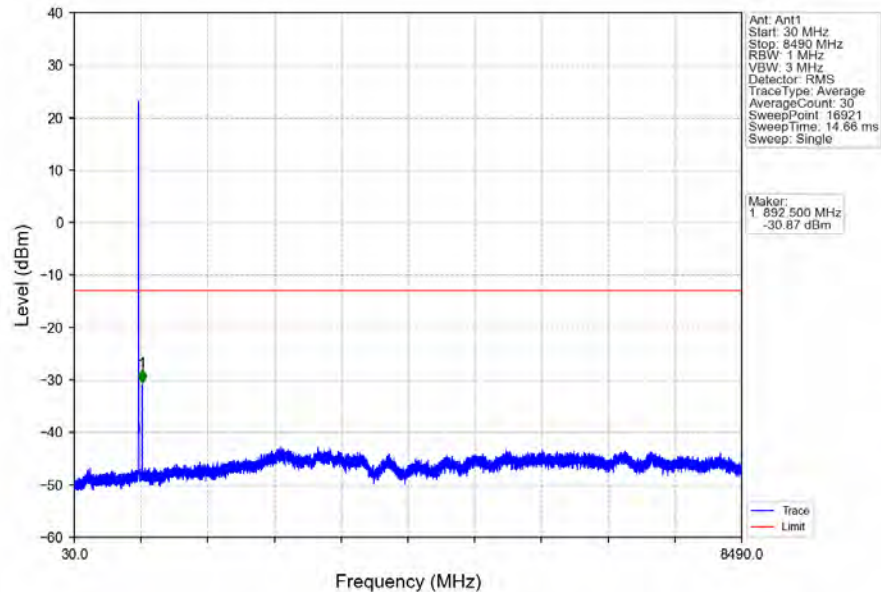
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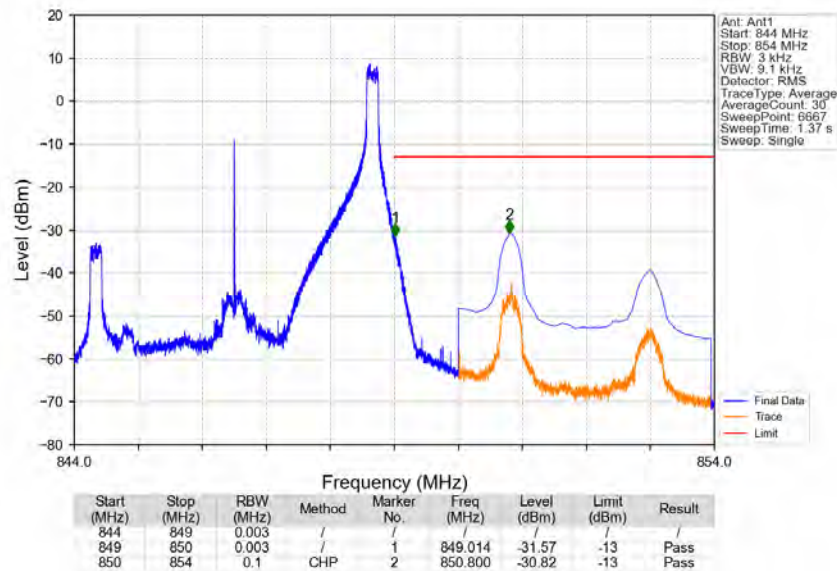
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Page: 123 of 144

Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_24\_NTNV



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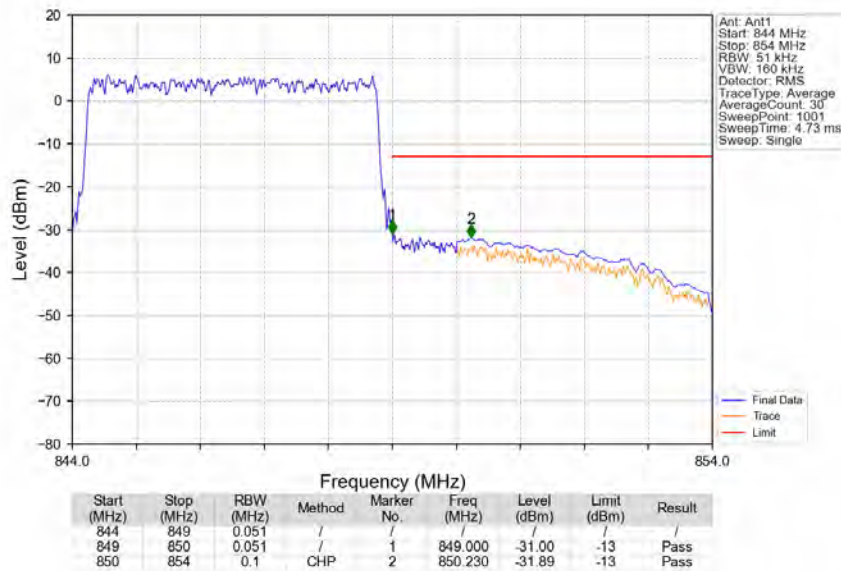
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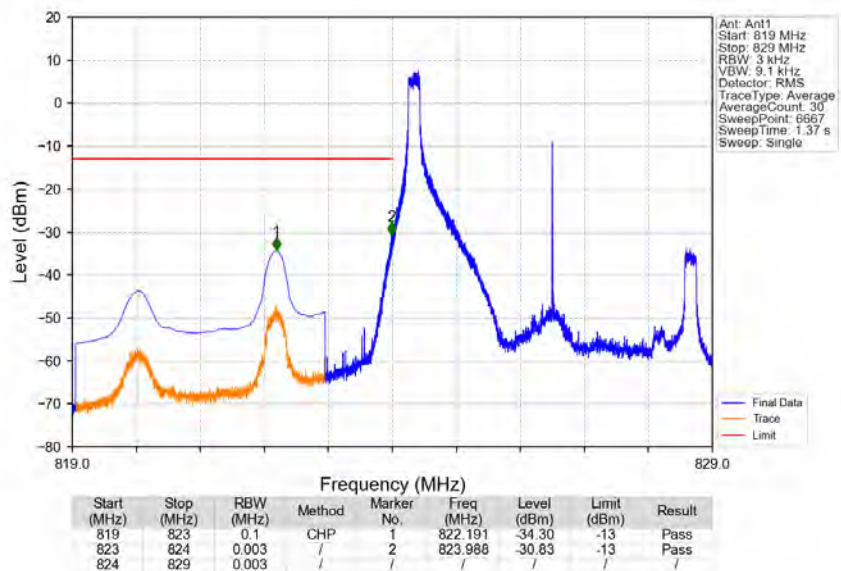
Rev.: 01

Page: 124 of 144

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



Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV



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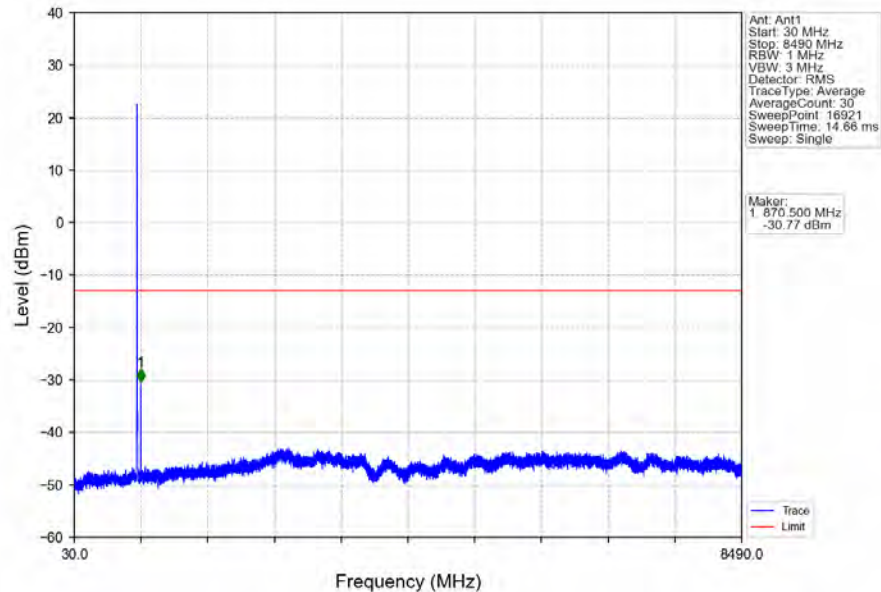
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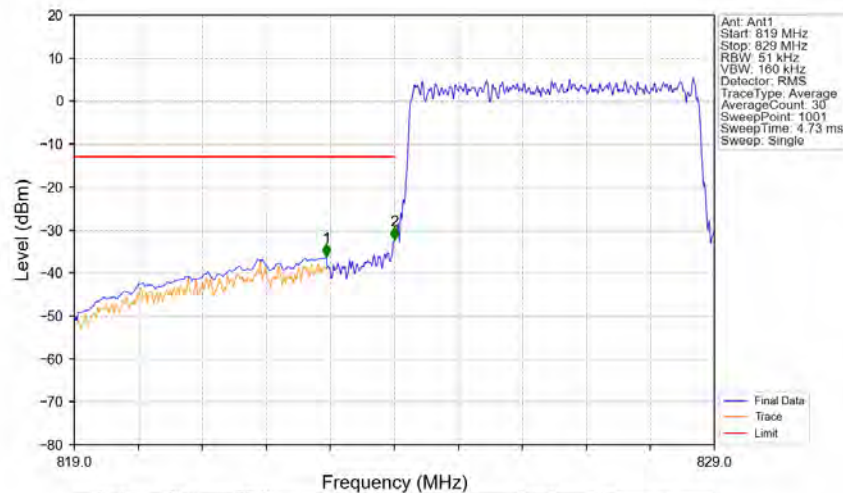
Rev.: 01

Page: 125 of 144

Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV



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



| Start (MHz) | Stop (MHz) | RBW (MHz) | Method | Marker No. | Freq (MHz) | Level (dBm) | Limit (dBm) | Result |
|-------------|------------|-----------|--------|------------|------------|-------------|-------------|--------|
| 819         | 823        | 0.1       | CHP    | 1          | 822.940    | -36.24      | -13         | Pass   |
| 823         | 824        | 0.051     | /      | 2          | 824.000    | -32.39      | -13         | Pass   |
| 824         | 829        | 0.051     | /      | /          | /          | /           | /           | /      |



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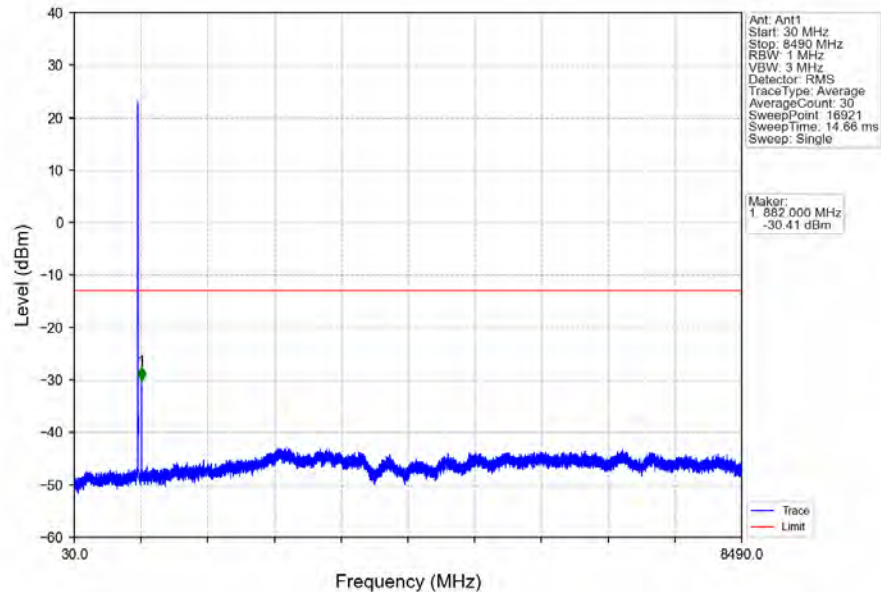
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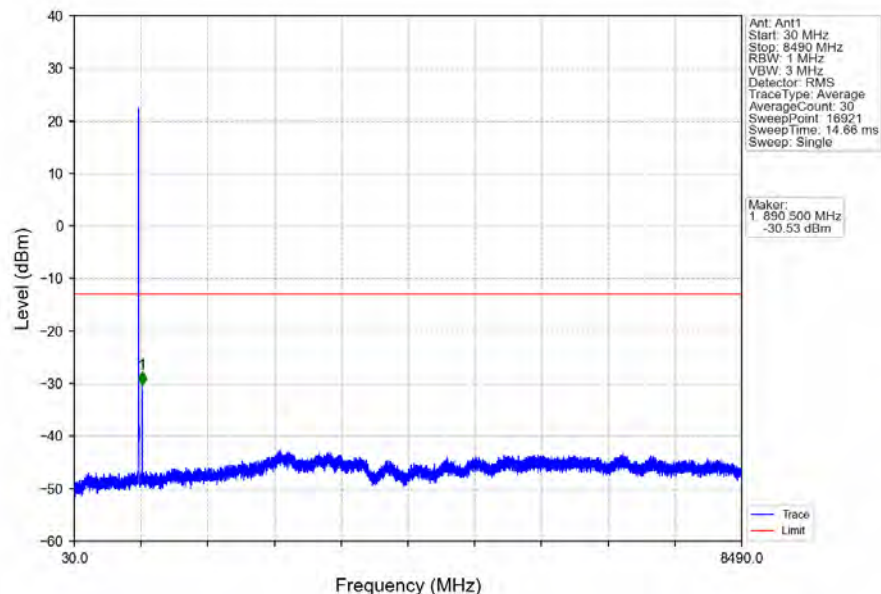
Rev.: 01

Page: 126 of 144

Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



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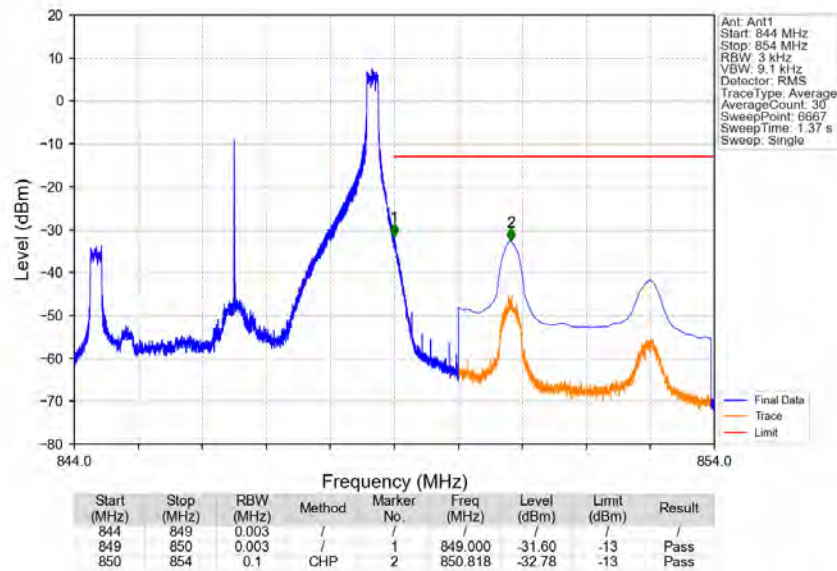
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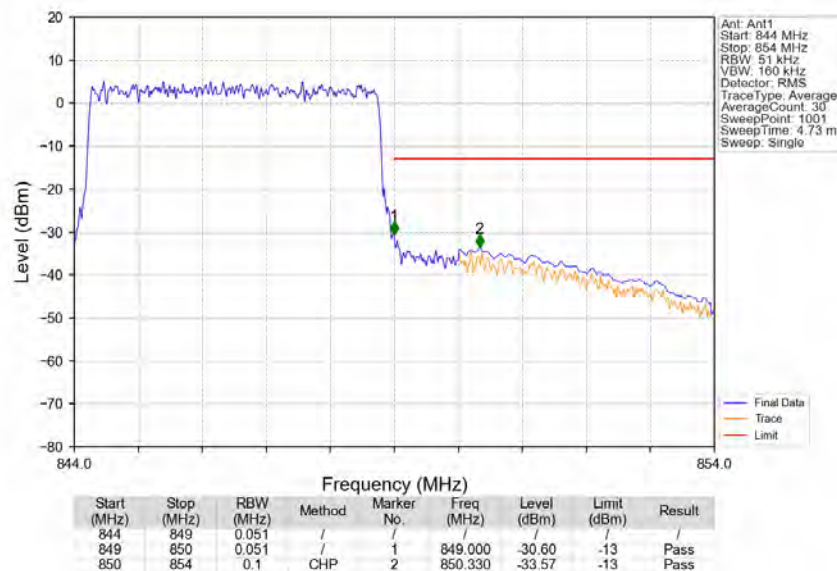
Rev.: 01

Page: 127 of 144

Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_1\_24\_NTNV



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



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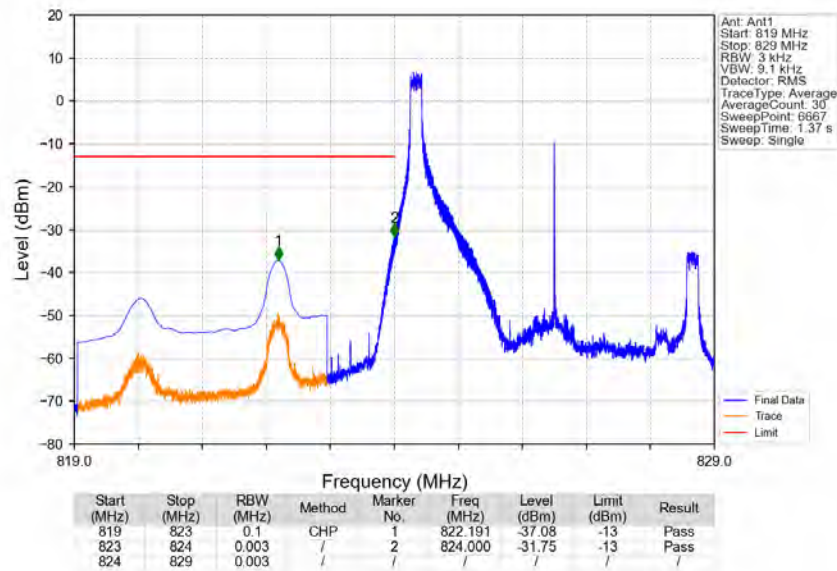
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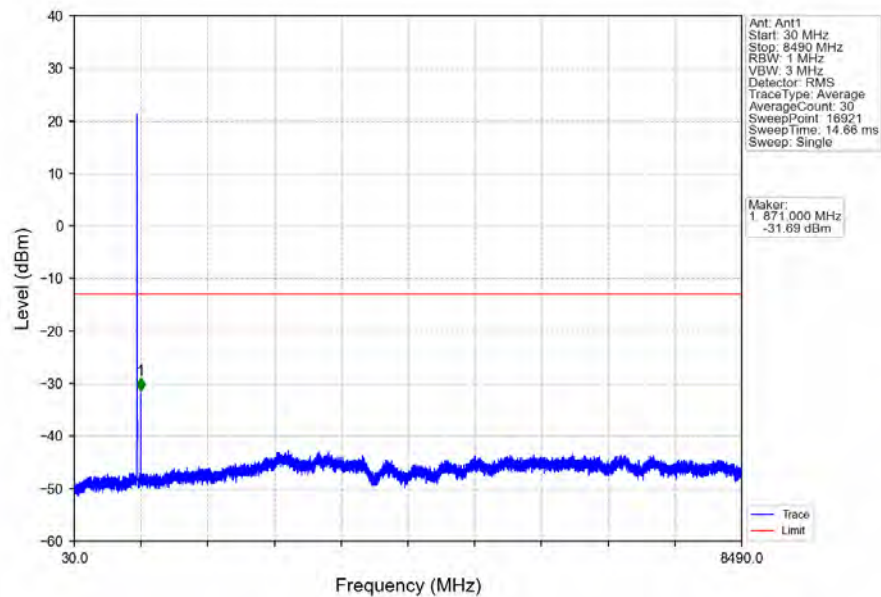
Rev.: 01

Page: 128 of 144

Band5\_5MHz\_64QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV



Band5\_5MHz\_64QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV



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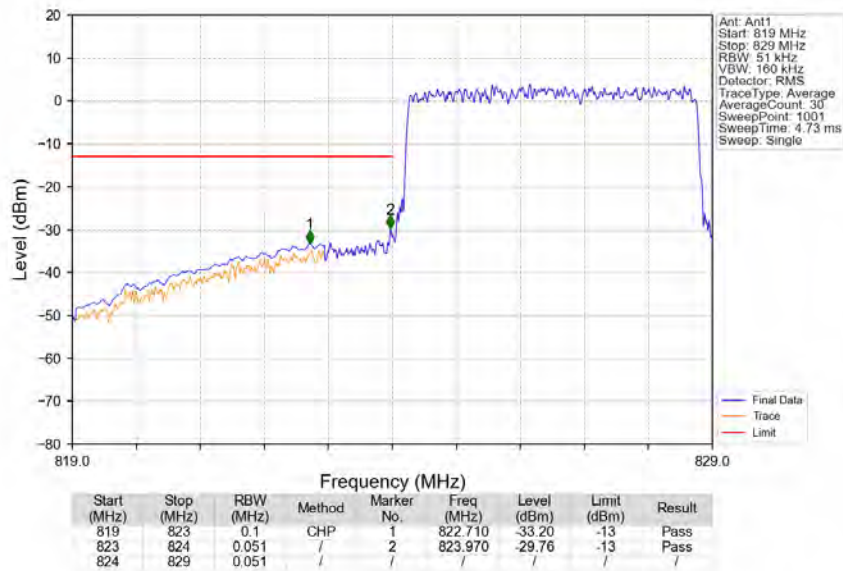
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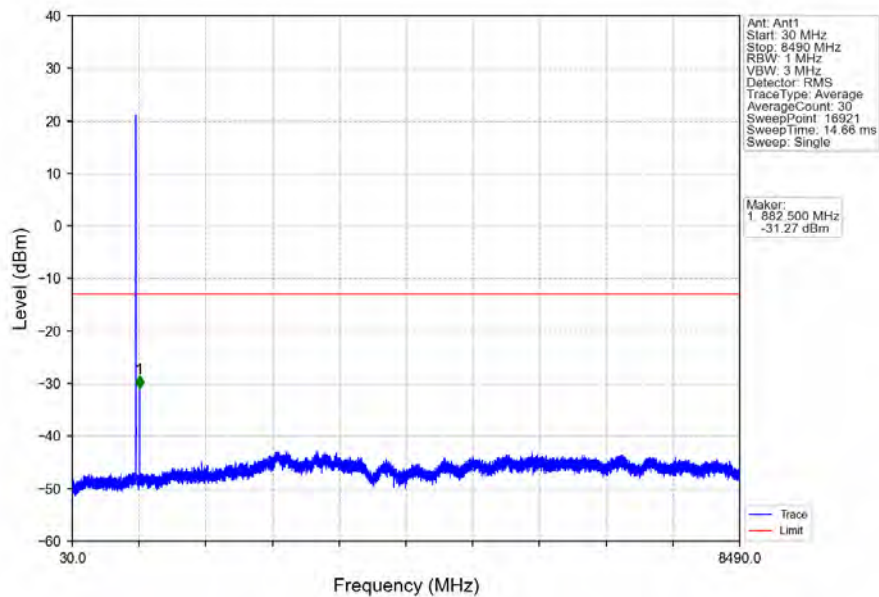
Rev.: 01

Page: 129 of 144

Band5\_5MHz\_64QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_64QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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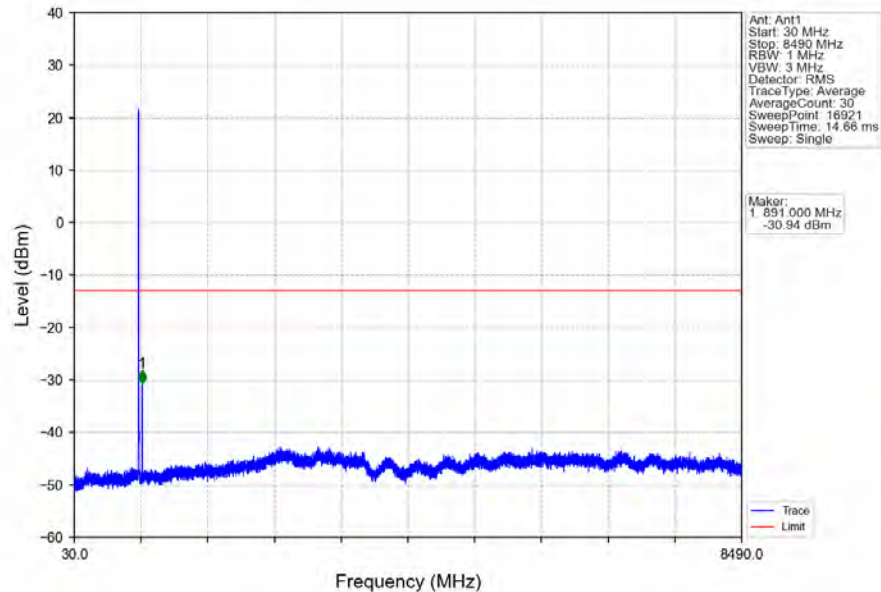
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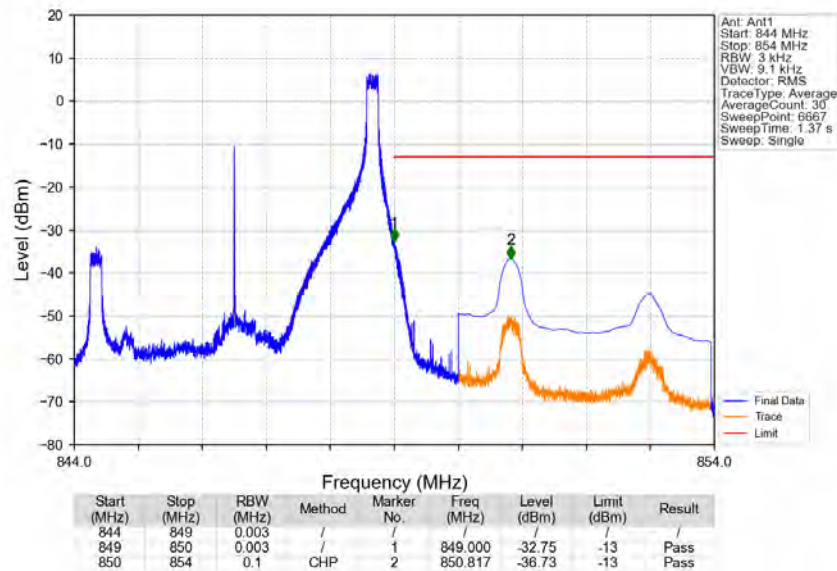
Rev.: 01

Page: 130 of 144

Band5\_5MHz\_64QAM\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



Band5\_5MHz\_64QAM\_HCH\_846.5MHz\_RB\_1\_24\_NTNV



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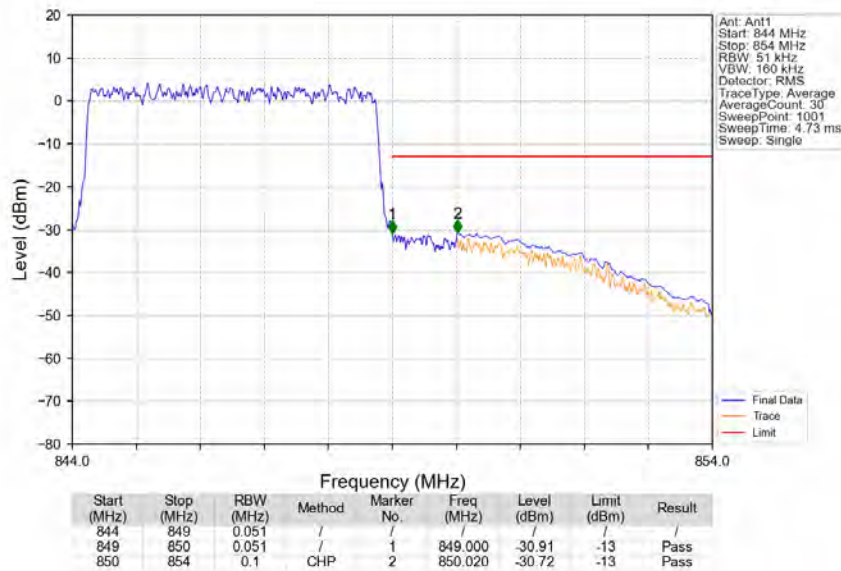
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Report No.: SZCR240200059401  
Rev.: 01  
Page: 132 of 144

## 6.4 B5\_10MHz

### 6.4.1 Test Result

| 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  |
|                                   |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                   | 844             | 1             | 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  |
|                                   |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                   | 844             | 1             | 49     | Refer To Test Graph | Pass  |
|                                   |                 | 50            | 0      | Refer To Test Graph | Pass  |
| 64QAM                             | 829             | 1             | 0      | Refer To Test Graph | Pass  |
|                                   |                 | 50            | 0      | Refer To Test Graph | Pass  |
|                                   | 836.5           | 1             | 0      | Refer To Test Graph | Pass  |
|                                   |                 | 1             | 0      | Refer To Test Graph | Pass  |
|                                   | 844             | 1             | 49     | Refer To Test Graph | Pass  |
|                                   |                 | 50            | 0      | Refer To Test Graph | Pass  |



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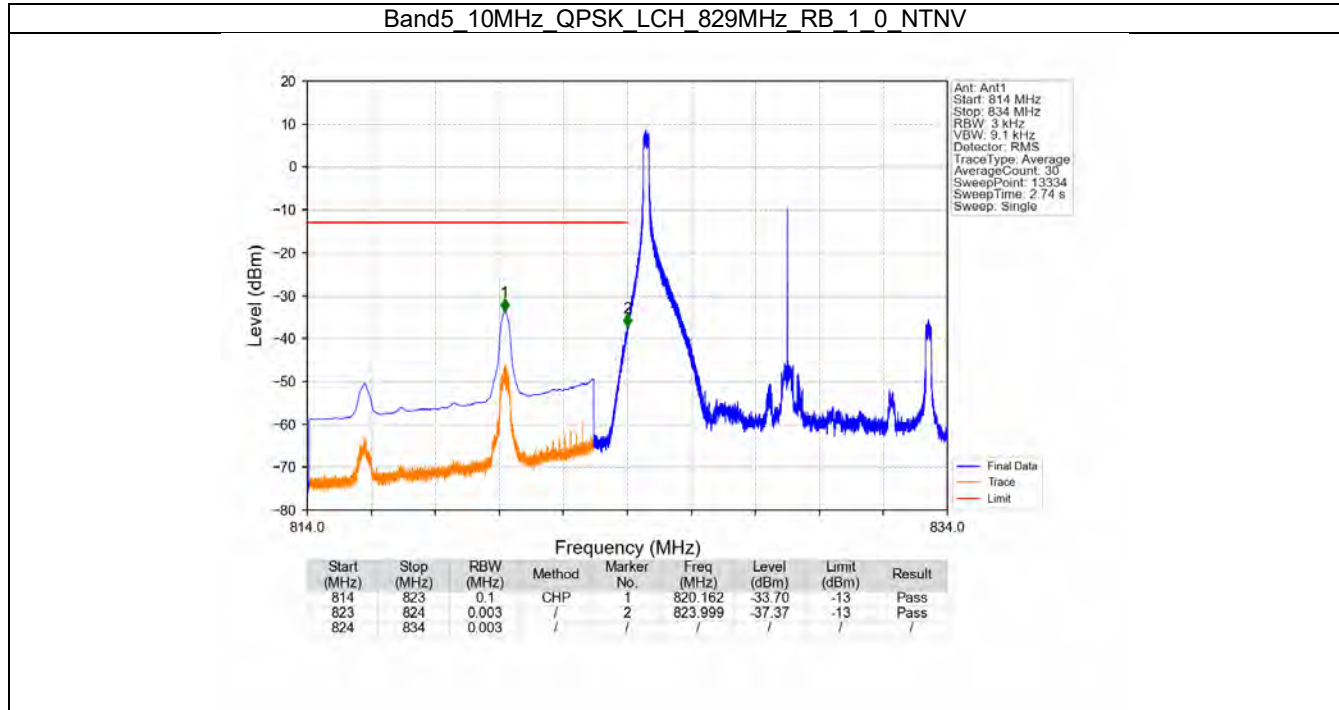
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## 6.4.2 Test Graph



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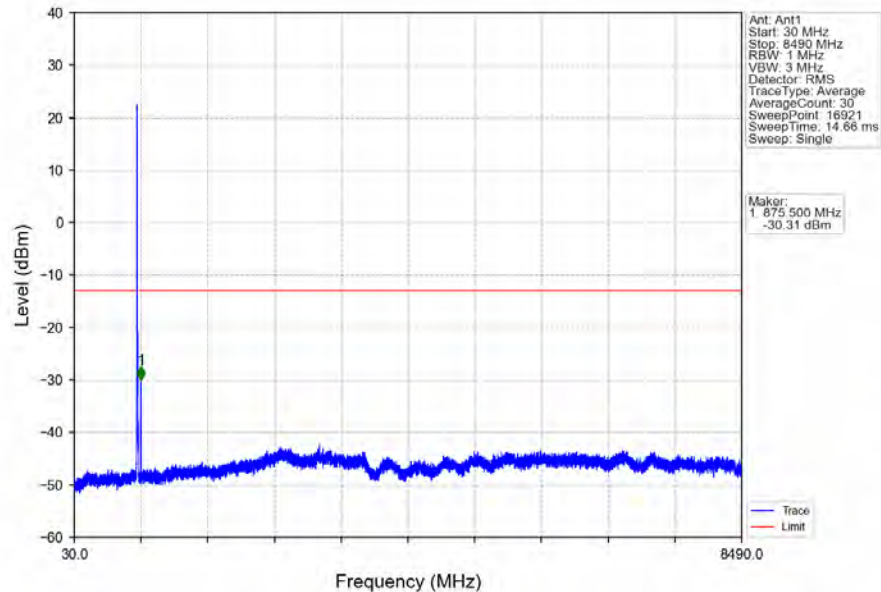
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Rev.: 01

Page: 134 of 144

Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_1\_0\_NTNV



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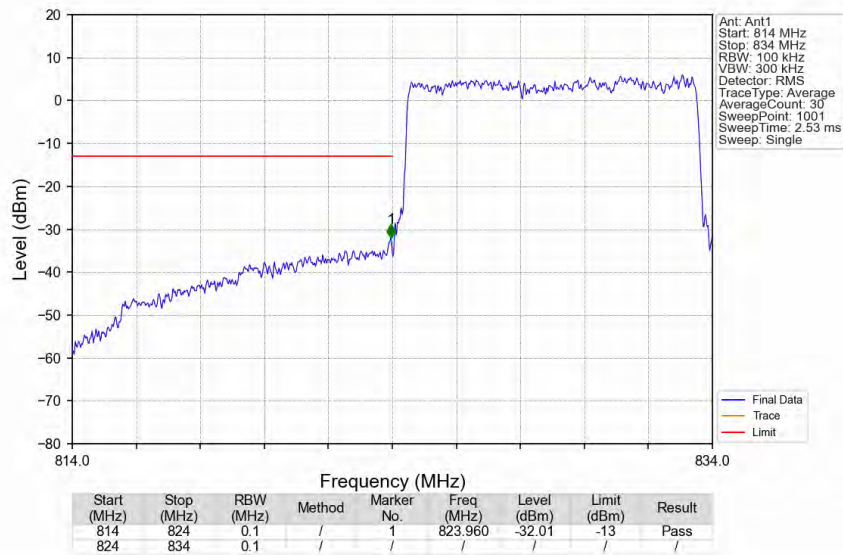
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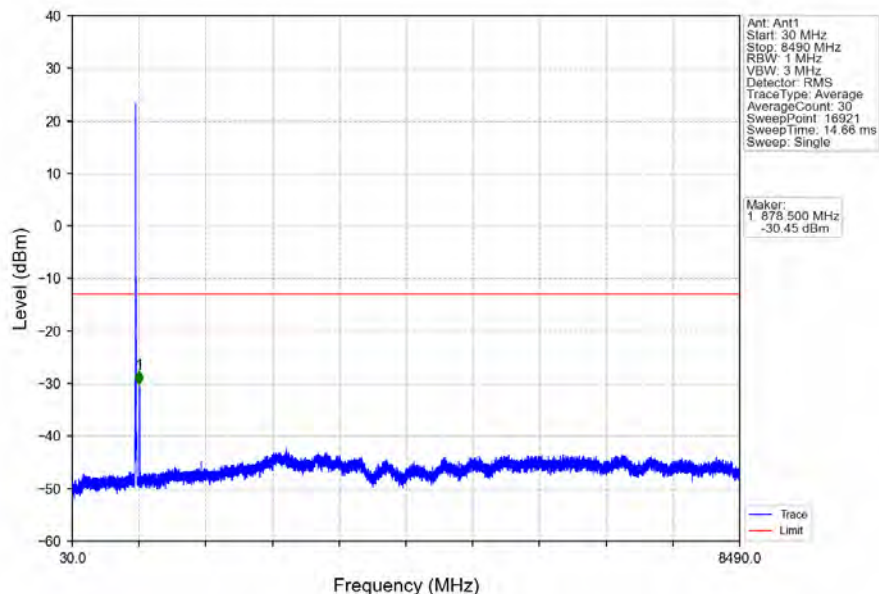
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Page: 135 of 144

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



Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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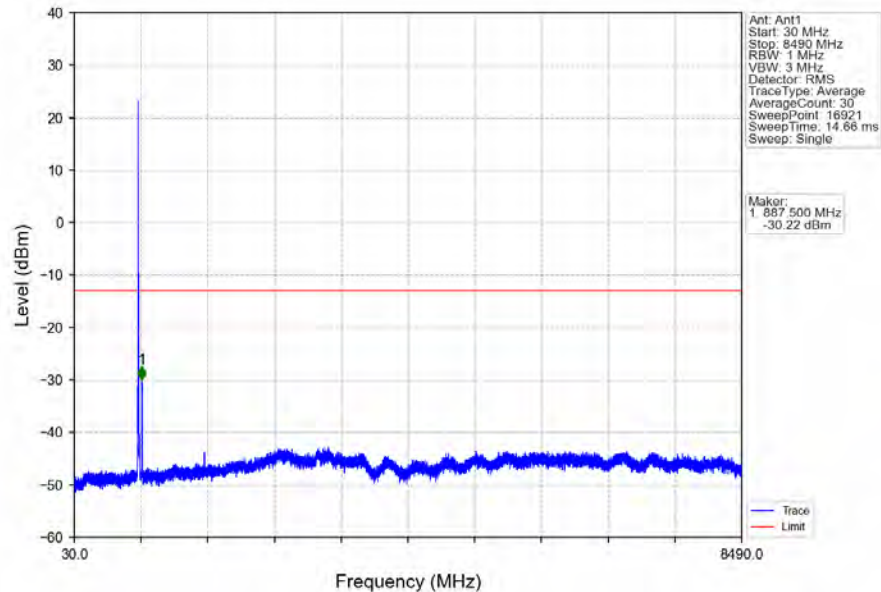
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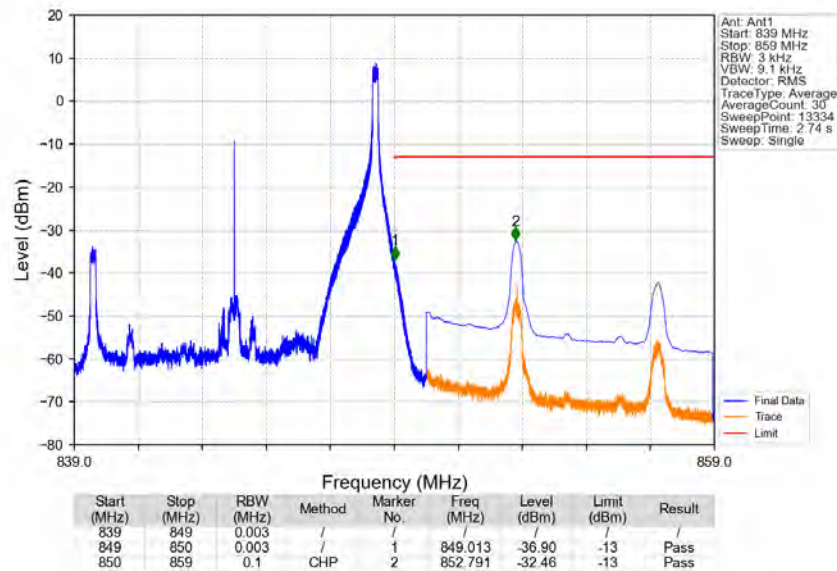
Rev.: 01

Page: 136 of 144

Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_49\_NTNV



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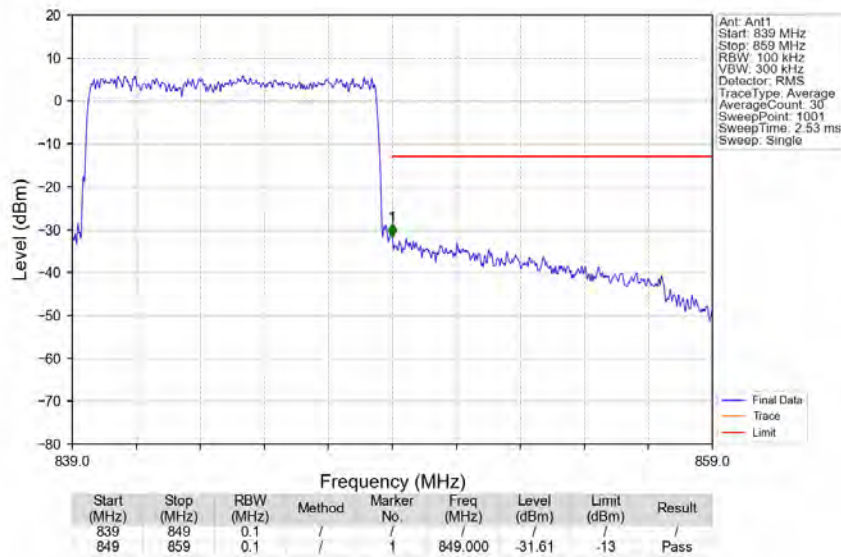
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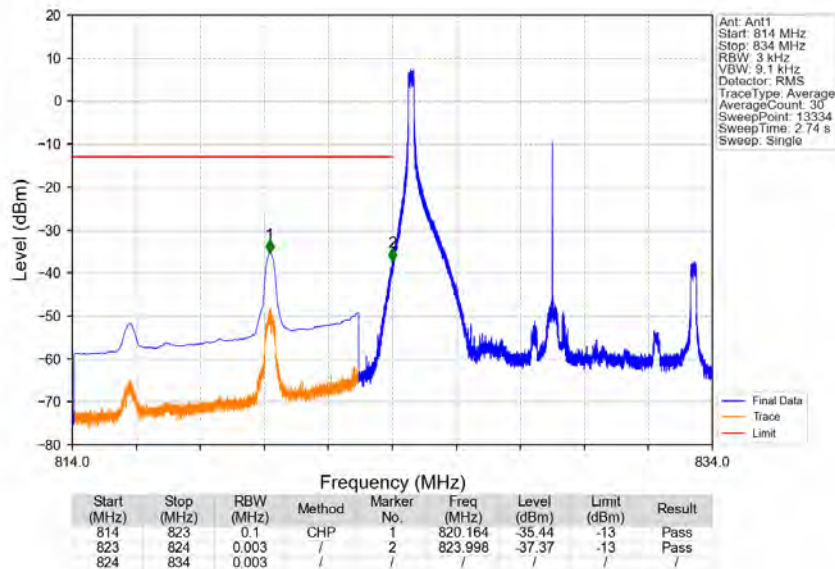
Rev.: 01

Page: 137 of 144

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



Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV



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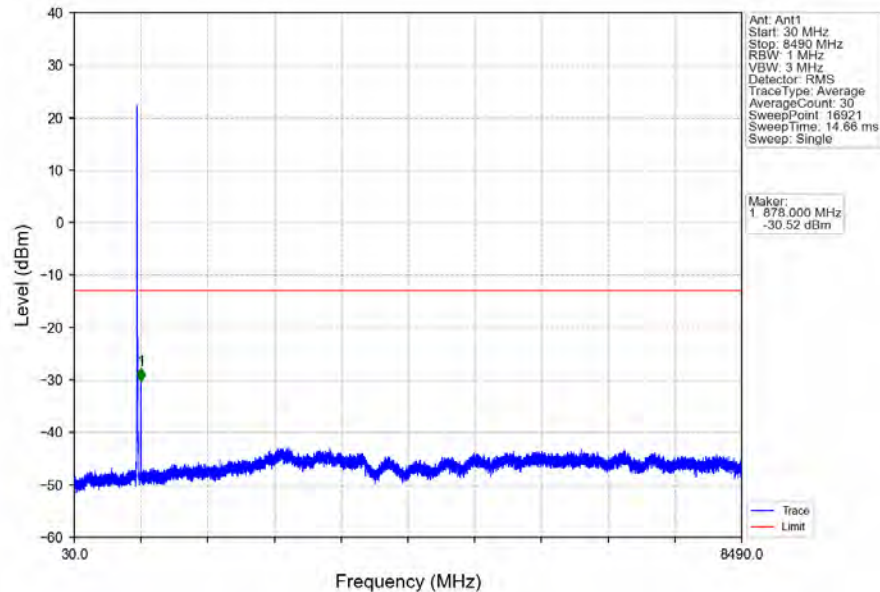
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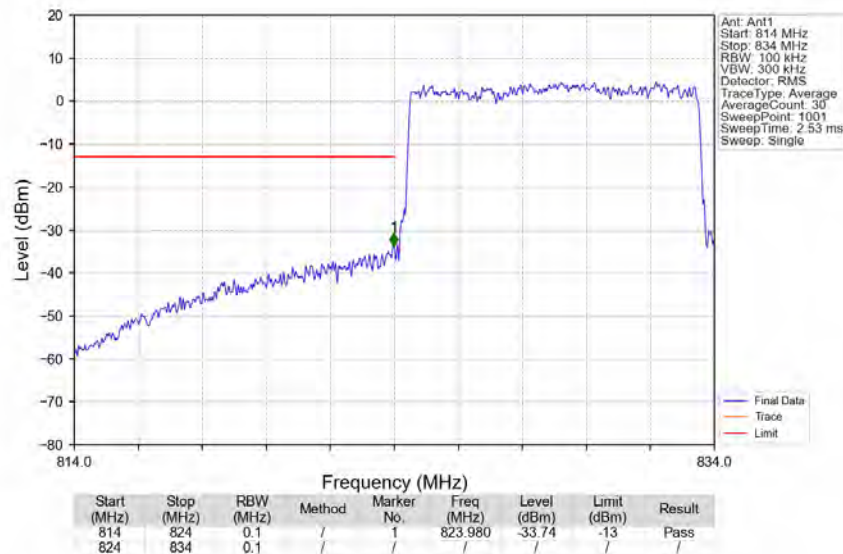
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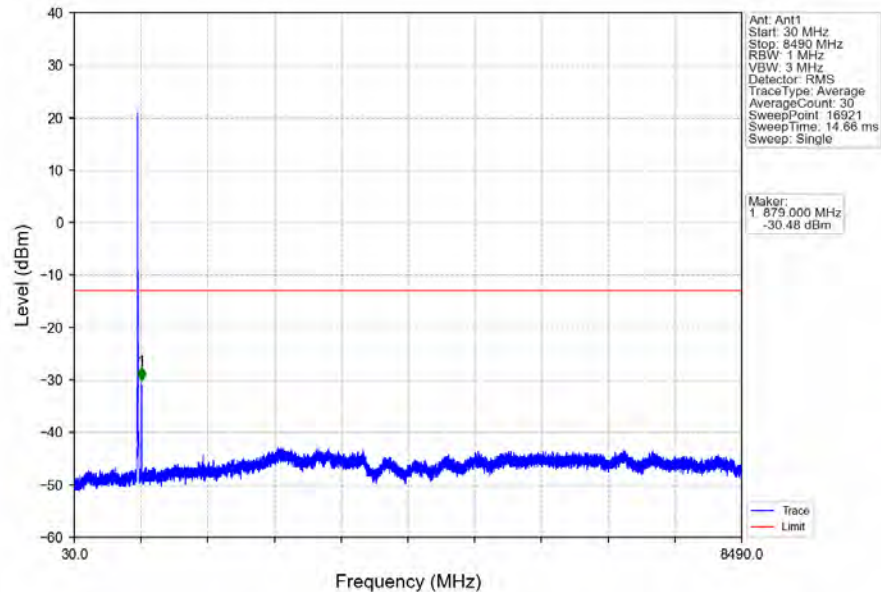
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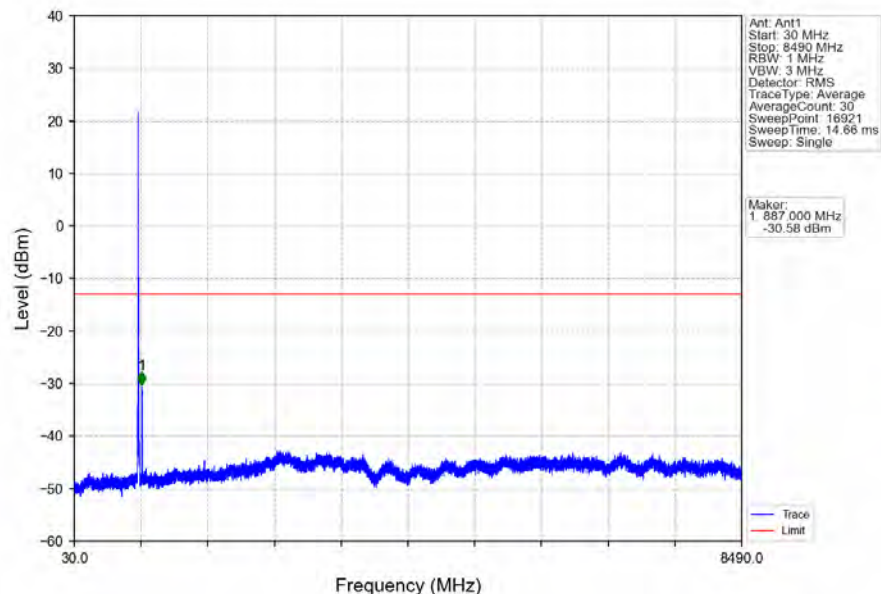
Rev.: 01

Page: 139 of 144

Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_1\_0\_NTNV



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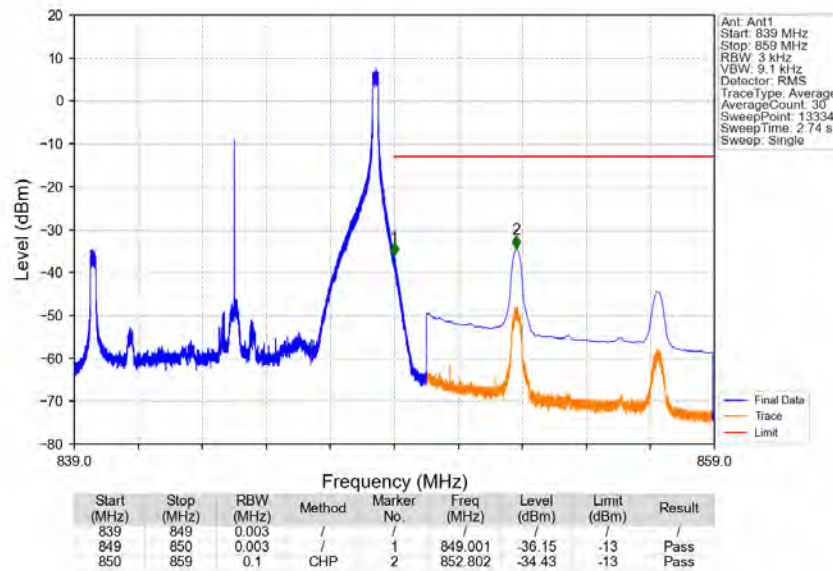
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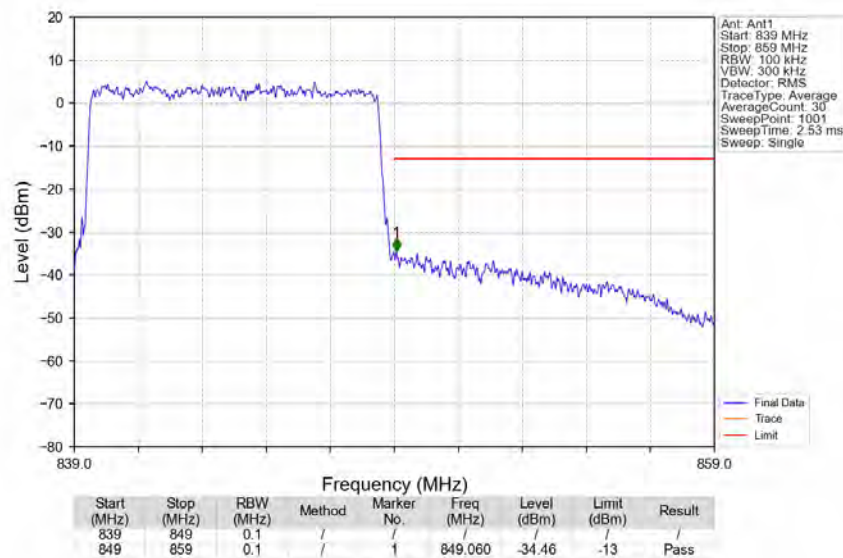
Rev.: 01

Page: 140 of 144

Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_1\_49\_NTNV



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



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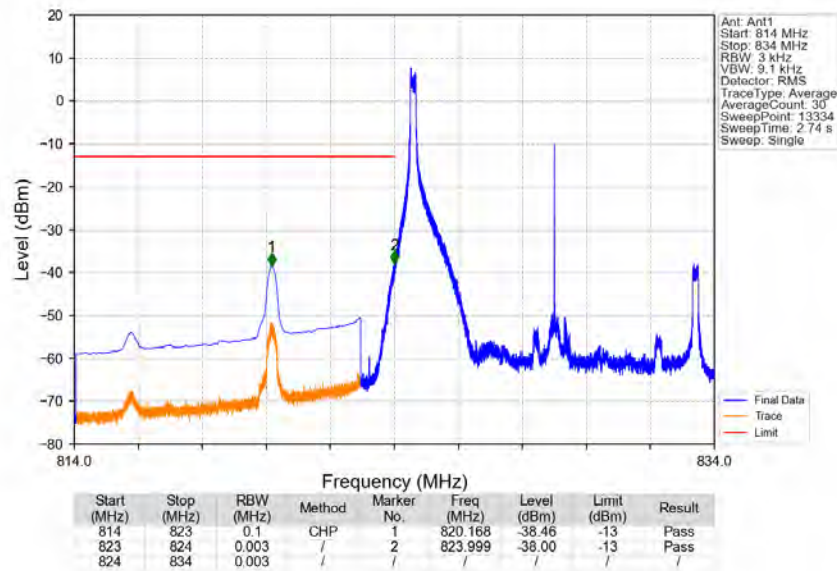
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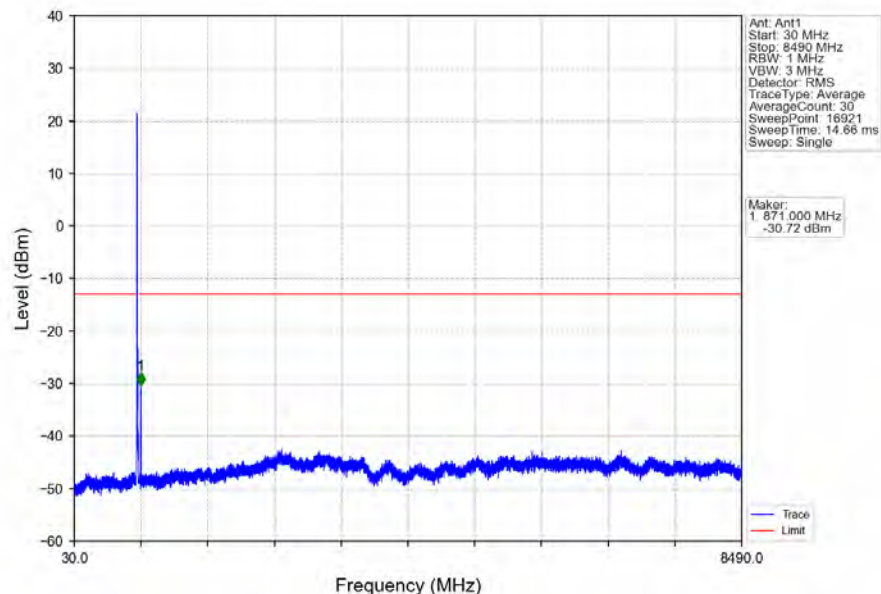
Rev.: 01

Page: 141 of 144

Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV



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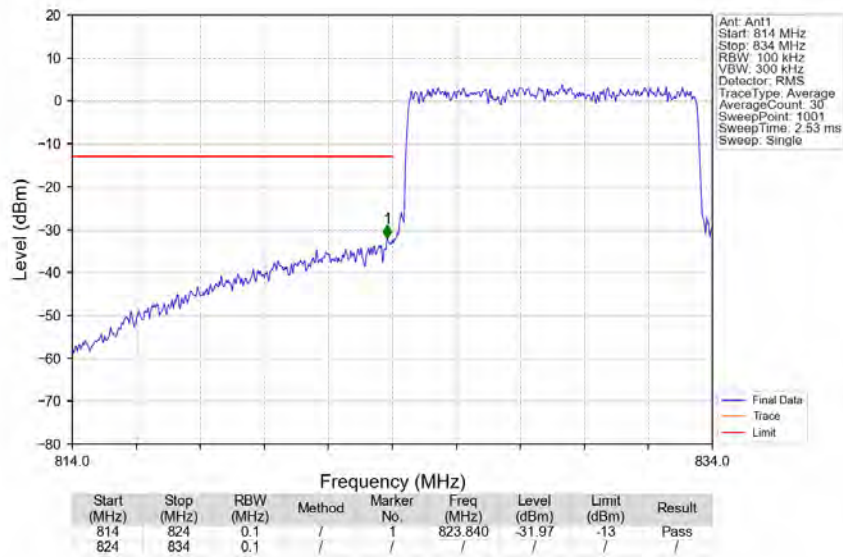
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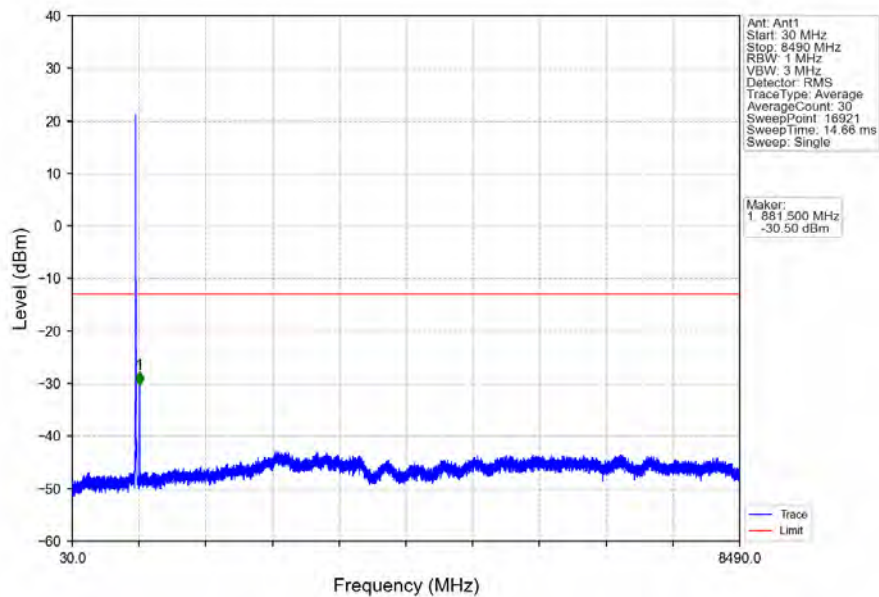
Rev.: 01

Page: 142 of 144

Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_64QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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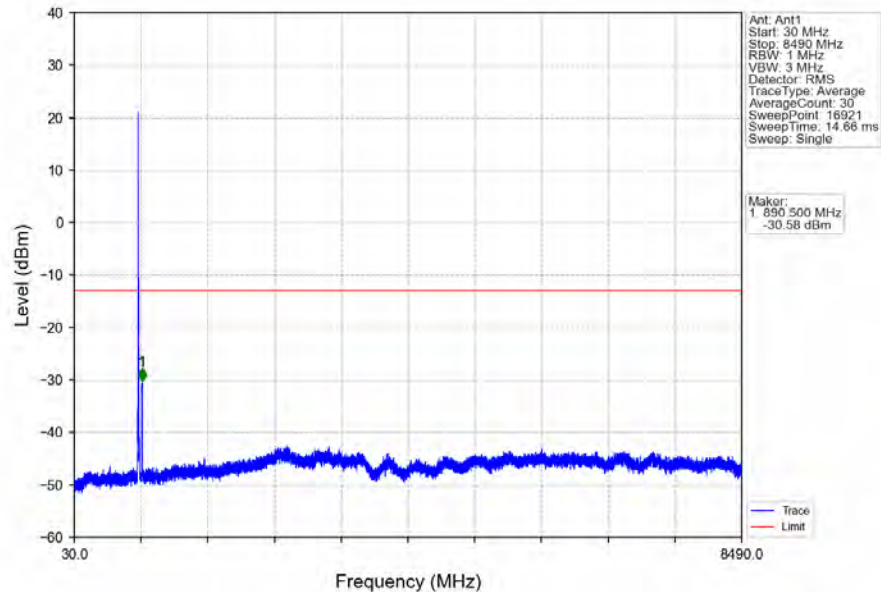
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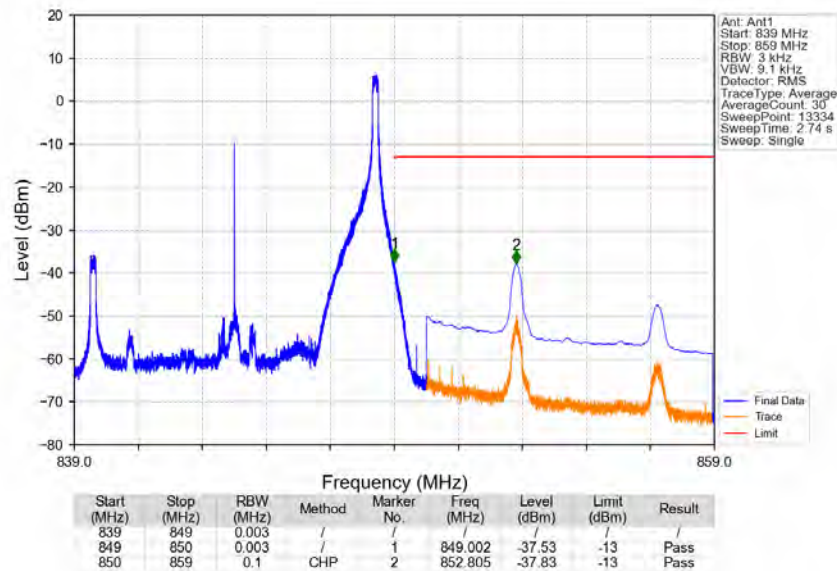
Rev.: 01

Page: 143 of 144

Band5\_10MHz\_64QAM\_HCH\_844MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_64QAM\_HCH\_844MHz\_RB\_1\_49\_NTNV



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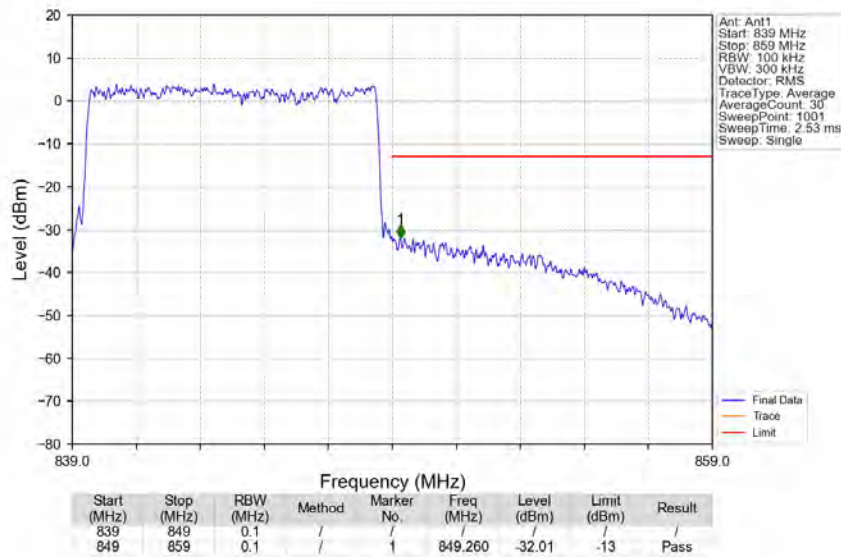
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Rev.: 01

Page: 144 of 144

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