

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

### 1.1 Test Result

#### 1.1.1 Band4\_EIRP

| Band: 4                                  |         |              |                 |                       |            |            |       |         |
|------------------------------------------|---------|--------------|-----------------|-----------------------|------------|------------|-------|---------|
| ENV                                      | Mode    |              | Frequency (MHz) | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |
|                                          | Network | Subset       |                 |                       |            | Result     | Limit |         |
| NTNV                                     | RMC     | 12.2kbps RMC | 1712.4          | 23.84                 | 0.86       | 24.70      | <=30  | Pass    |
|                                          |         |              | 1732.6          | 23.81                 | 0.86       | 24.67      | <=30  | Pass    |
|                                          |         |              | 1752.6          | 23.83                 | 0.86       | 24.69      | <=30  | Pass    |
| Note1: EIRP=Conducted Power+Antenna Gain |         |              |                 |                       |            |            |       |         |

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 Band4

| Band: 4 |                 |            |               |                  |                       |             |         |
|---------|-----------------|------------|---------------|------------------|-----------------------|-------------|---------|
| Network | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|         |                 |            |               |                  | Result                | Limit       |         |
| RMC     | 1712.4          | 20         | 3.30          | 10.378           | 0.0061                | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.80          | 10.622           | 0.0062                | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.40          | 10.836           | 0.0063                | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.80          | 10.679           | 0.0062                | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.80          | 11.308           | 0.0066                | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.80          | 10.929           | 0.0064                | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.80          | 10.993           | 0.0064                | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.80          | 10.800           | 0.0063                | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.80          | 10.729           | 0.0063                | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.80          | 10.579           | 0.0062                | -2.5 to 2.5 | Pass    |
|         |                 | 50         | 3.80          | 10.314           | 0.0060                | -2.5 to 2.5 | Pass    |
|         | 1732.6          | 20         | 3.30          | -3.455           | -0.0020               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.80          | -3.405           | -0.0020               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.40          | -3.626           | -0.0021               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.80          | -2.911           | -0.0017               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.80          | -3.240           | -0.0019               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.80          | -2.754           | -0.0016               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.80          | -3.090           | -0.0018               | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.80          | -2.811           | -0.0016               | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.80          | -3.083           | -0.0018               | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.80          | -4.070           | -0.0023               | -2.5 to 2.5 | Pass    |
|         |                 | 50         | 3.80          | -3.147           | -0.0018               | -2.5 to 2.5 | Pass    |
|         | 1752.6          | 20         | 3.30          | -9.491           | -0.0054               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.80          | -9.241           | -0.0053               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.40          | -9.420           | -0.0054               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.80          | -9.141           | -0.0052               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.80          | -9.005           | -0.0051               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.80          | -9.069           | -0.0052               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.80          | -9.041           | -0.0052               | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.80          | -9.513           | -0.0054               | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.80          | -9.770           | -0.0056               | -2.5 to 2.5 | Pass    |

|  |  |    |      |        |         |             |      |
|--|--|----|------|--------|---------|-------------|------|
|  |  | 40 | 3.80 | -9.584 | -0.0055 | -2.5 to 2.5 | Pass |
|  |  | 50 | 3.80 | -8.790 | -0.0050 | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band4\_OBW

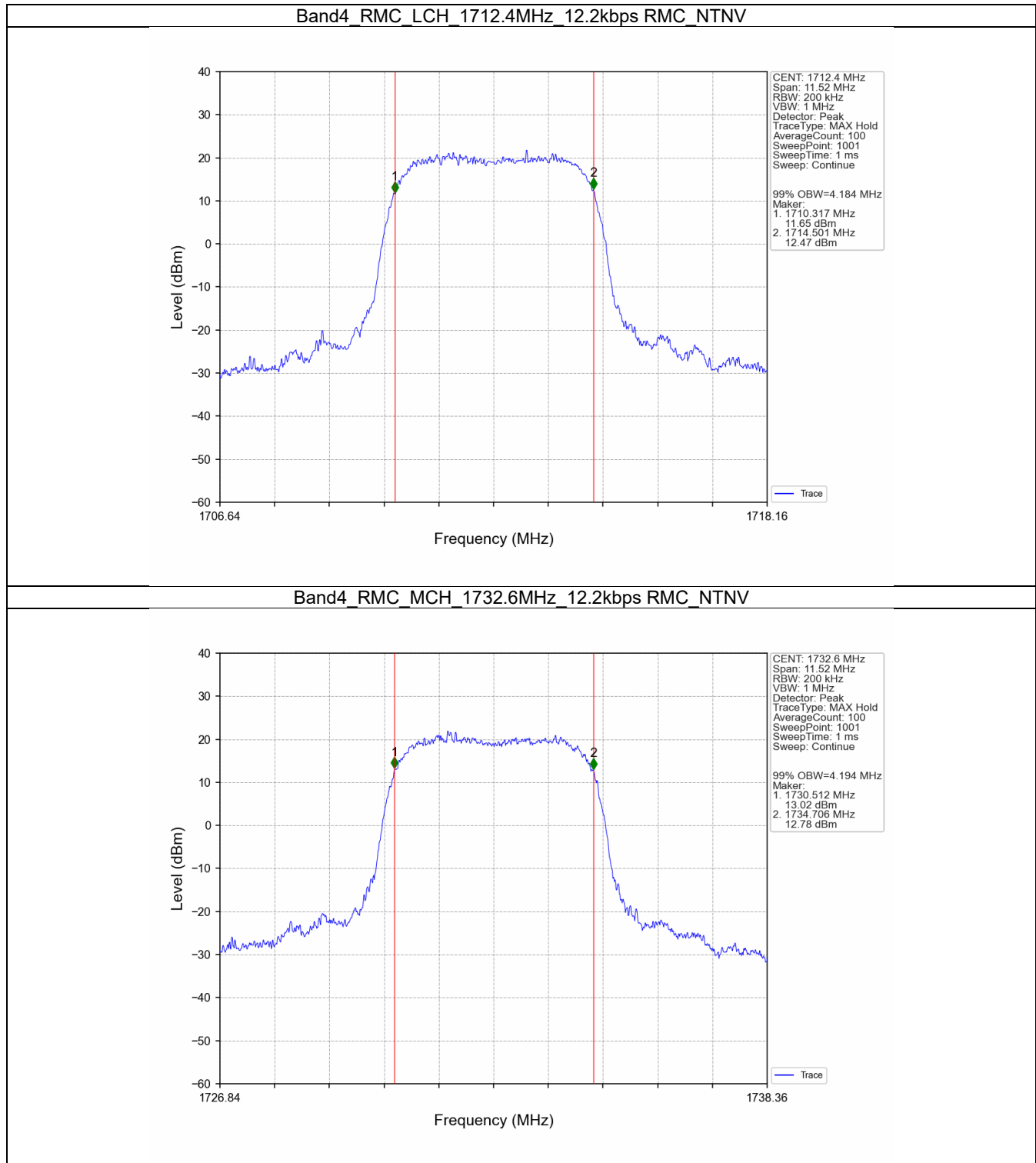
| Band: 4 |         |              |                 |                              |       |         |
|---------|---------|--------------|-----------------|------------------------------|-------|---------|
| ENV     | Mode    |              | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       | Verdict |
|         | Network | Subset       |                 | Result                       | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4          | 4.184                        | /     | Pass    |
|         |         |              | 1732.6          | 4.194                        | /     | Pass    |
|         |         |              | 1752.6          | 4.187                        | /     | Pass    |

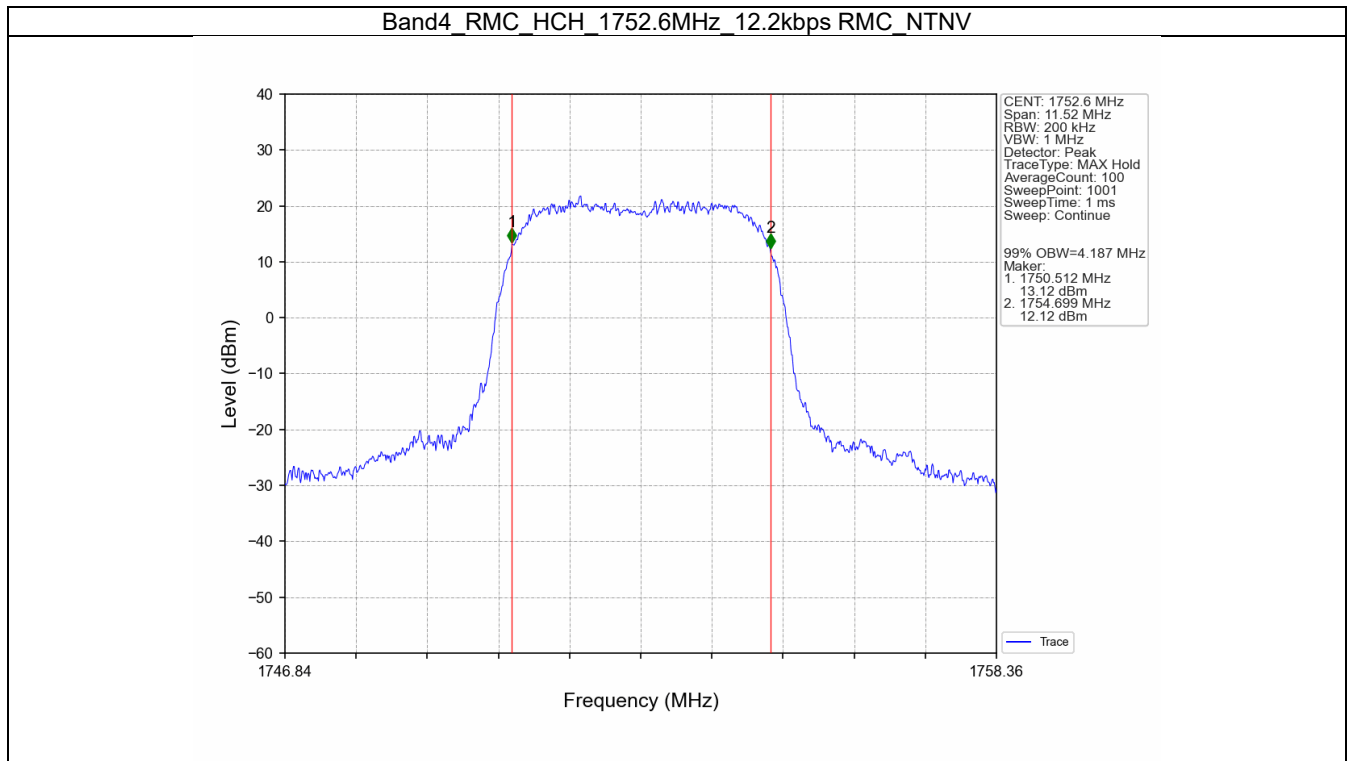
##### 3.1.2 Band4\_XDB

| Band: 4 |         |              |                 |                      |       |         |
|---------|---------|--------------|-----------------|----------------------|-------|---------|
| ENV     | Mode    |              | Frequency (MHz) | 26dB Bandwidth (MHz) |       | Verdict |
|         | Network | Subset       |                 | Result               | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4          | 4.817                | /     | Pass    |
|         |         |              | 1732.6          | 4.822                | /     | Pass    |
|         |         |              | 1752.6          | 4.829                | /     | Pass    |

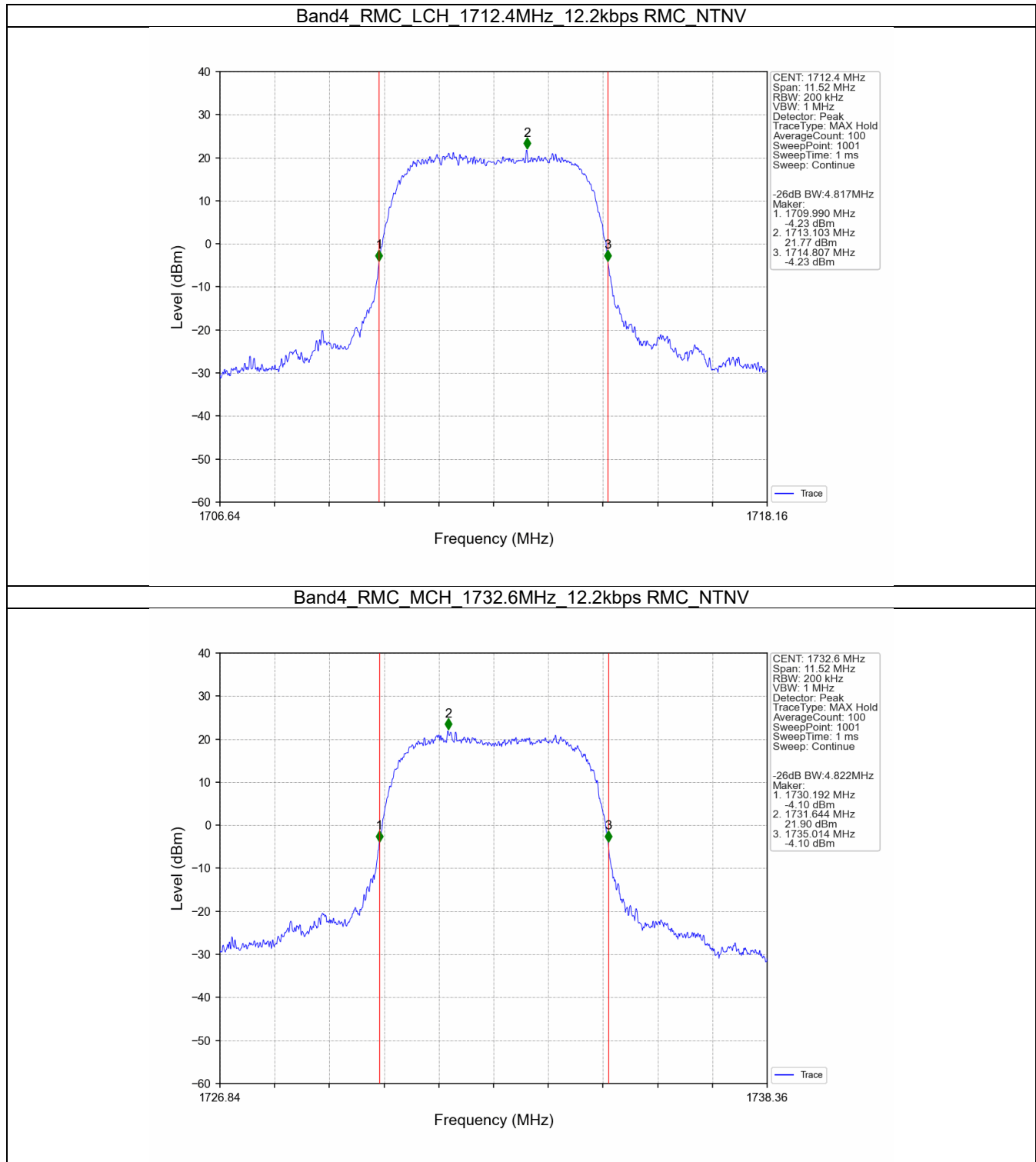
## 3.2 Test Graph

### 3.2.1 Band4\_OBW

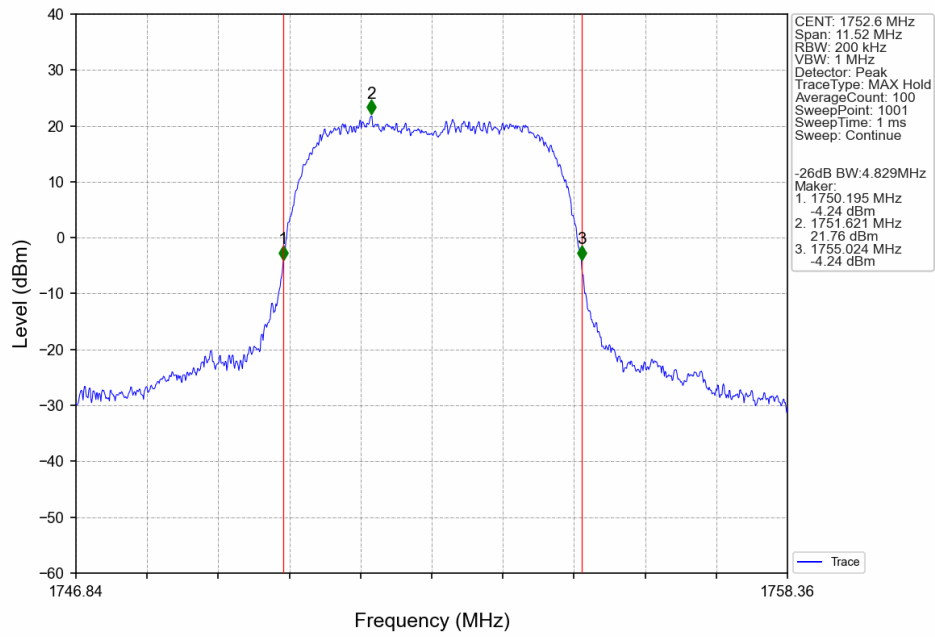




## 3.2.2 Band4\_XDB



Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



## 4. Peak-Average Ratio

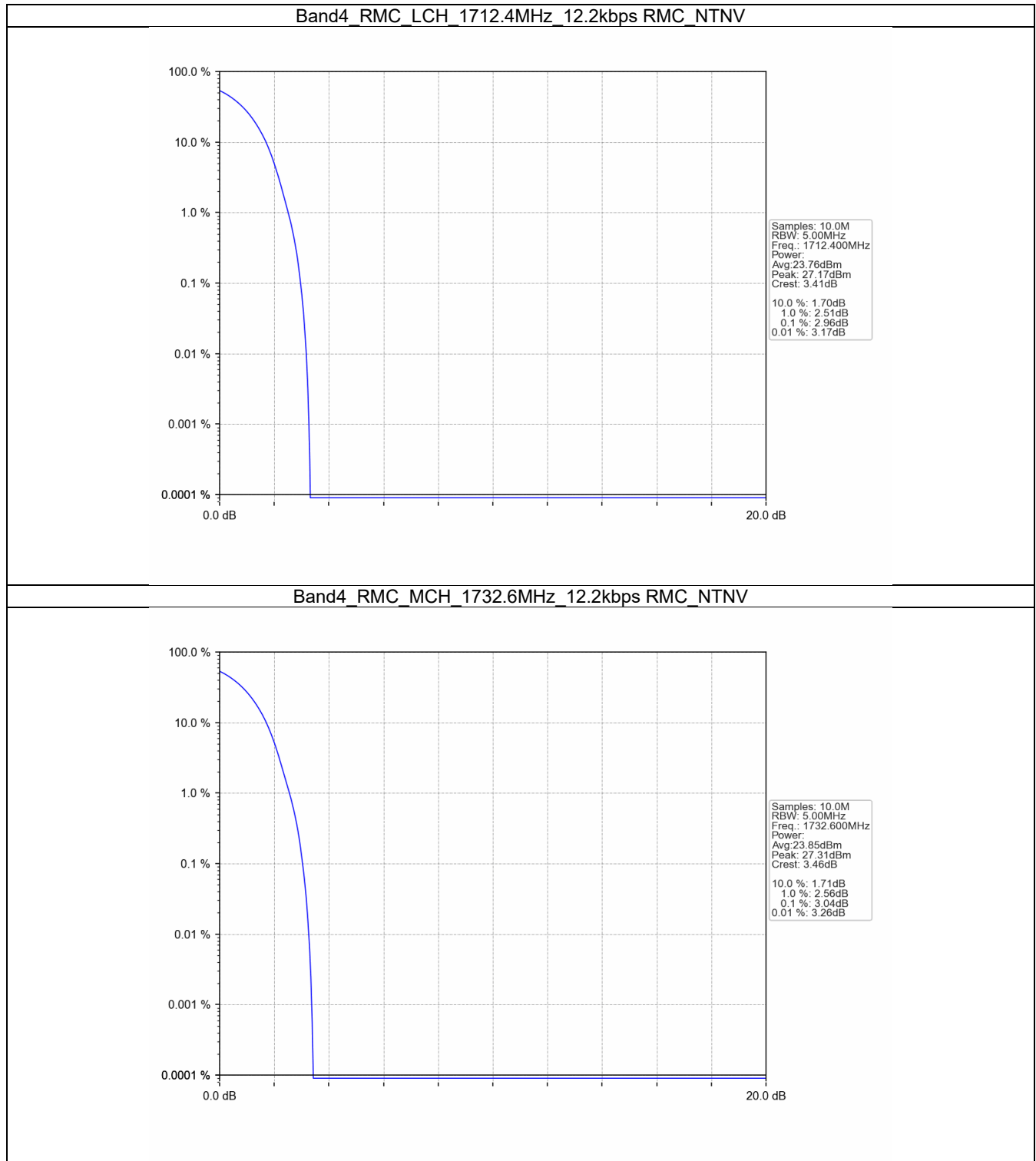
### 4.1 Test Result

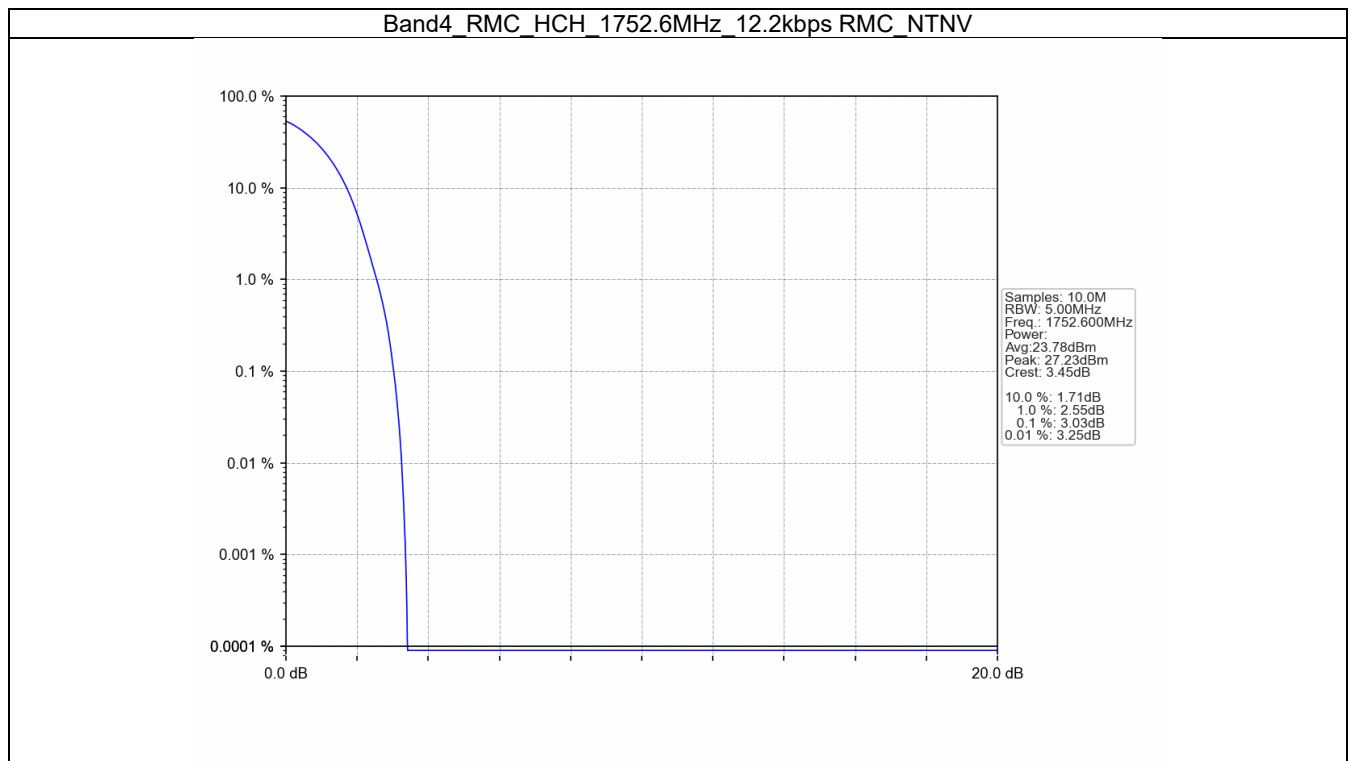
#### 4.1.1 Band4

| Band: 4 |         |              |                    |                         |       |         |
|---------|---------|--------------|--------------------|-------------------------|-------|---------|
| ENV     | Mode    |              | Frequency<br>(MHz) | Peak-Average Ratio (dB) |       | Verdict |
|         | Network | Subset       |                    | Result                  | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4             | 2.96                    | <=13  | Pass    |
|         |         |              | 1732.6             | 3.04                    | <=13  | Pass    |
|         |         |              | 1752.6             | 3.03                    | <=13  | Pass    |

## 4.2 Test Graph

### 4.2.1 Band4





## 5. Spurious Emission

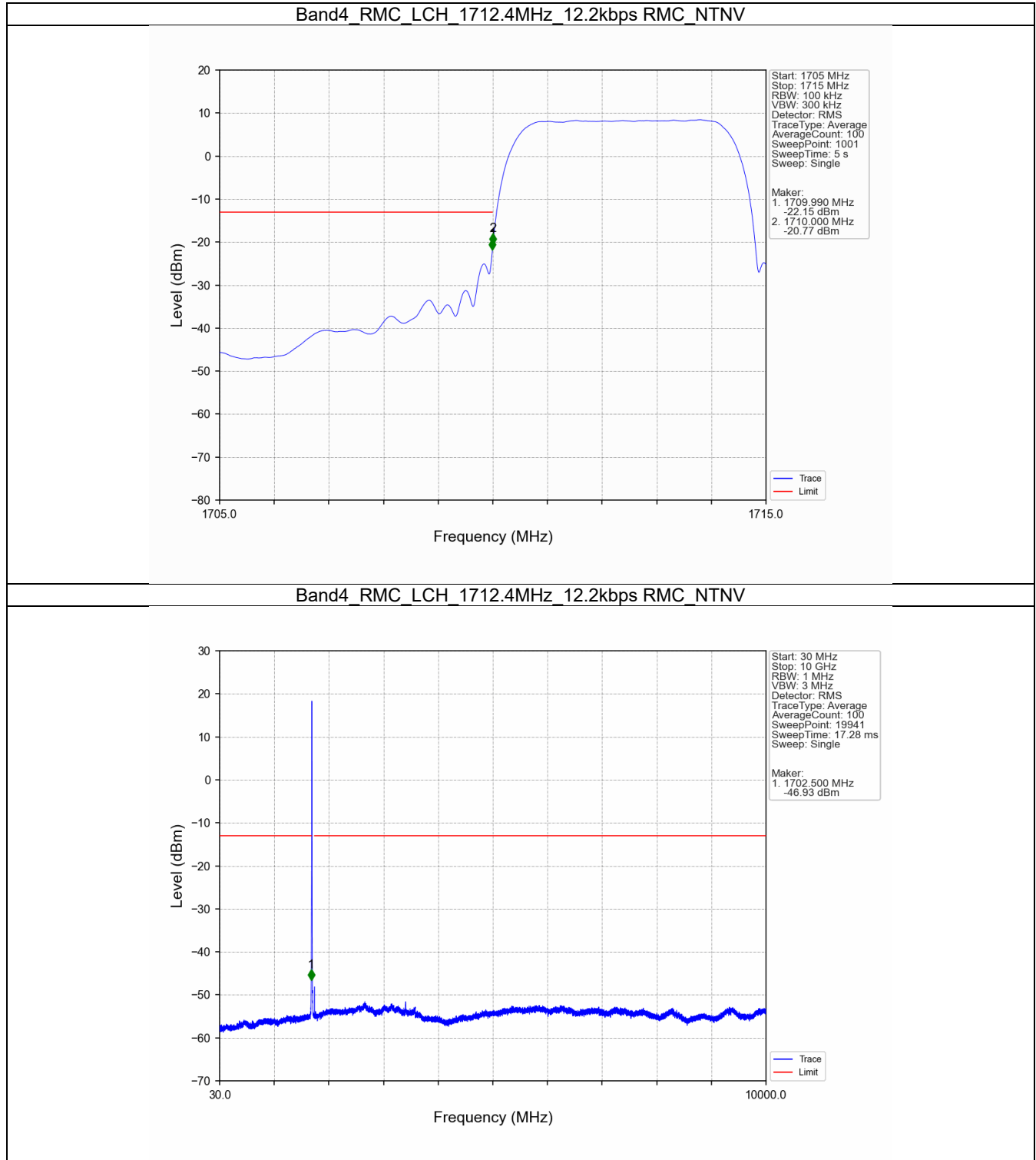
### 5.1 Test Result

#### 5.1.1 Band4

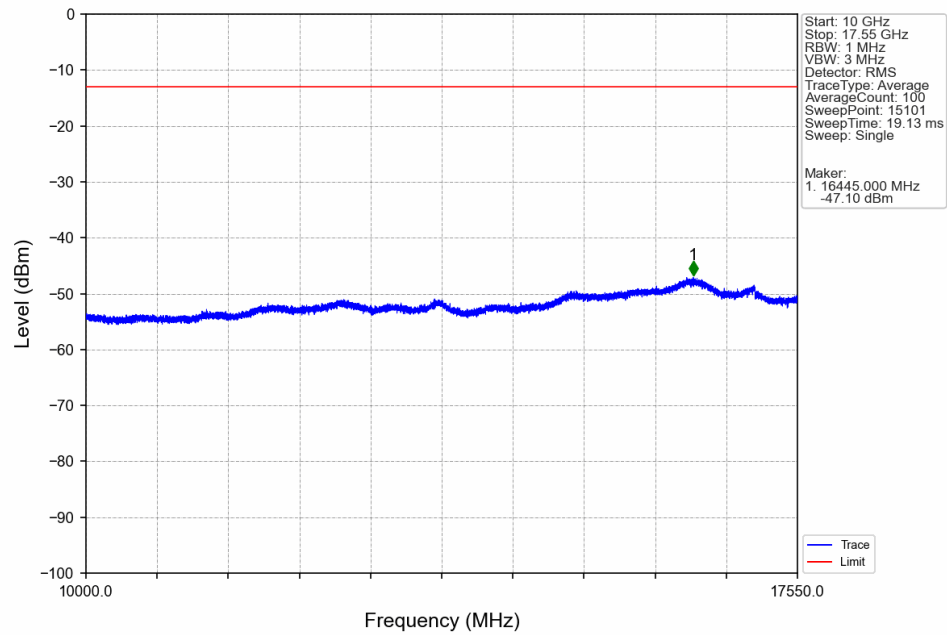
| Band: 4 |         |              |                 |                     |       |         |
|---------|---------|--------------|-----------------|---------------------|-------|---------|
| ENV     | Mode    |              | Frequency (MHz) | Spurious Emission   |       | Verdict |
|         | Network | Subset       |                 | Result              | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4          | Refer To Test Graph |       | Pass    |
|         |         |              | 1732.6          | Refer To Test Graph |       | Pass    |
|         |         |              | 1752.6          | Refer To Test Graph |       | Pass    |

## 5.2 Test Graph

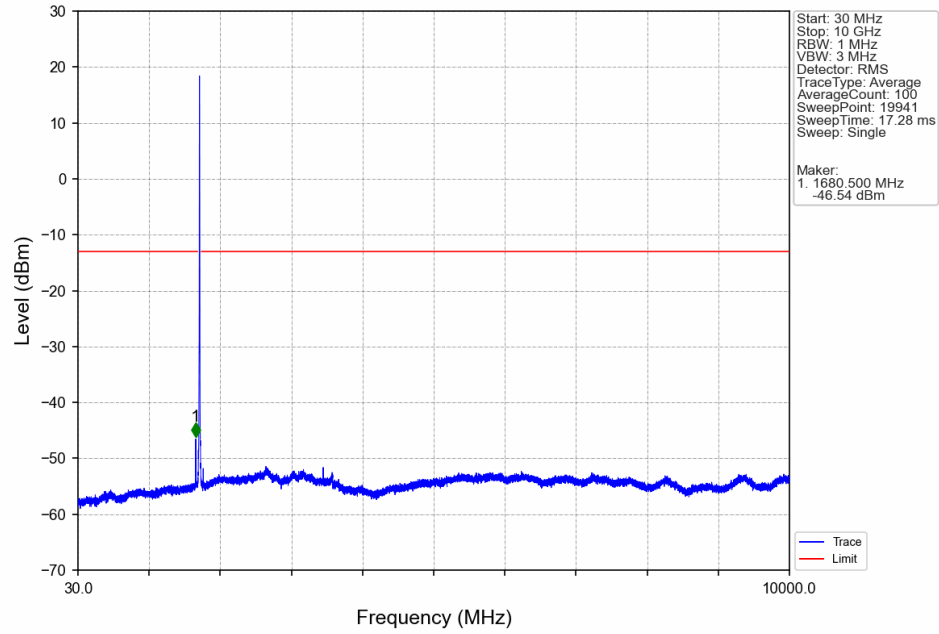
### 5.2.1 Band4



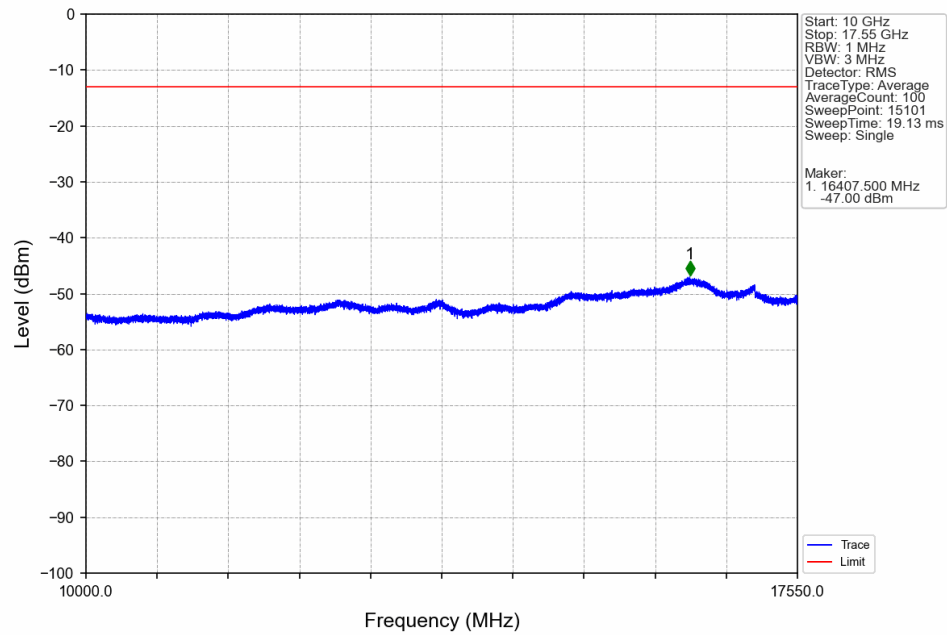
Band4\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



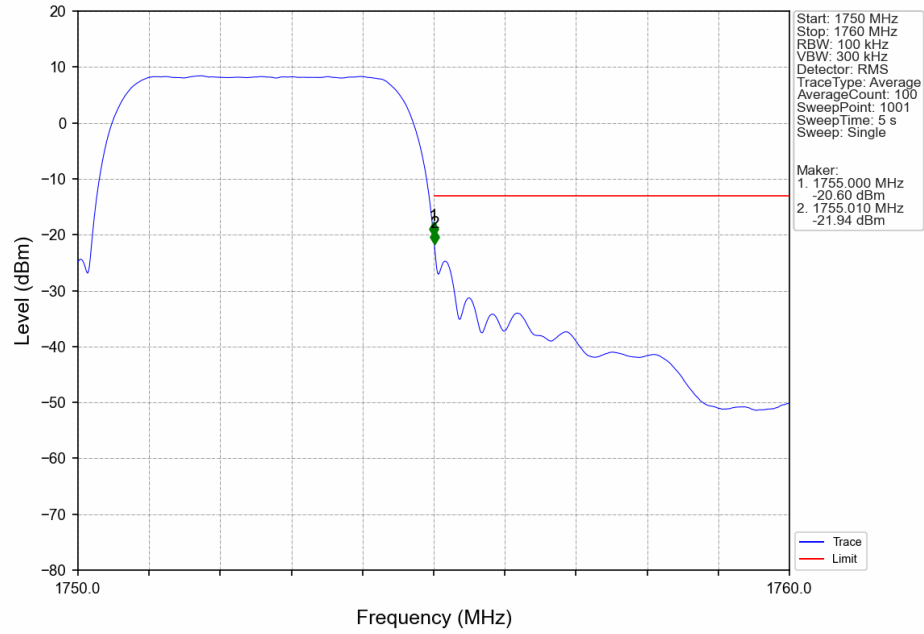
Band4\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



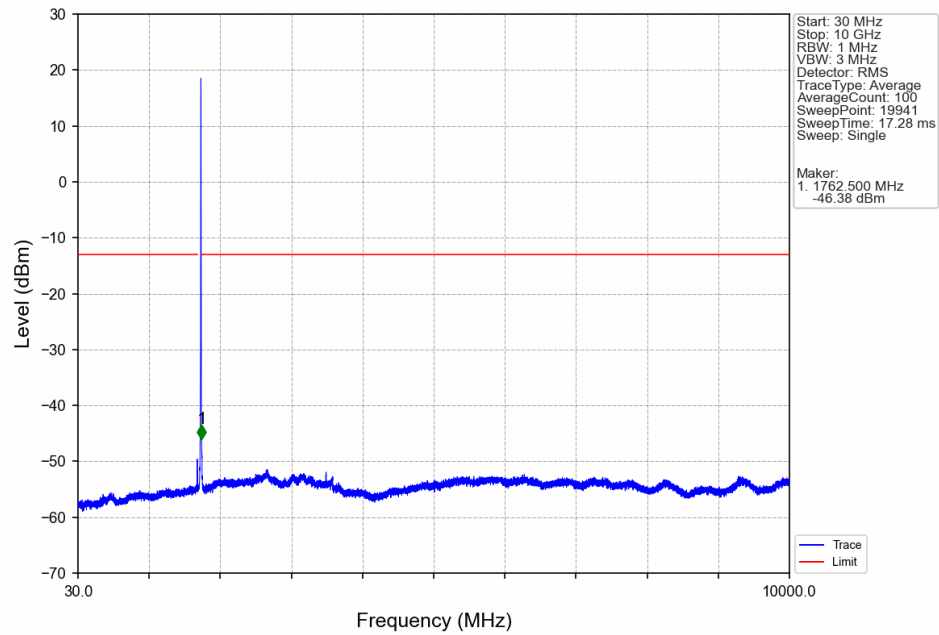
Band4\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



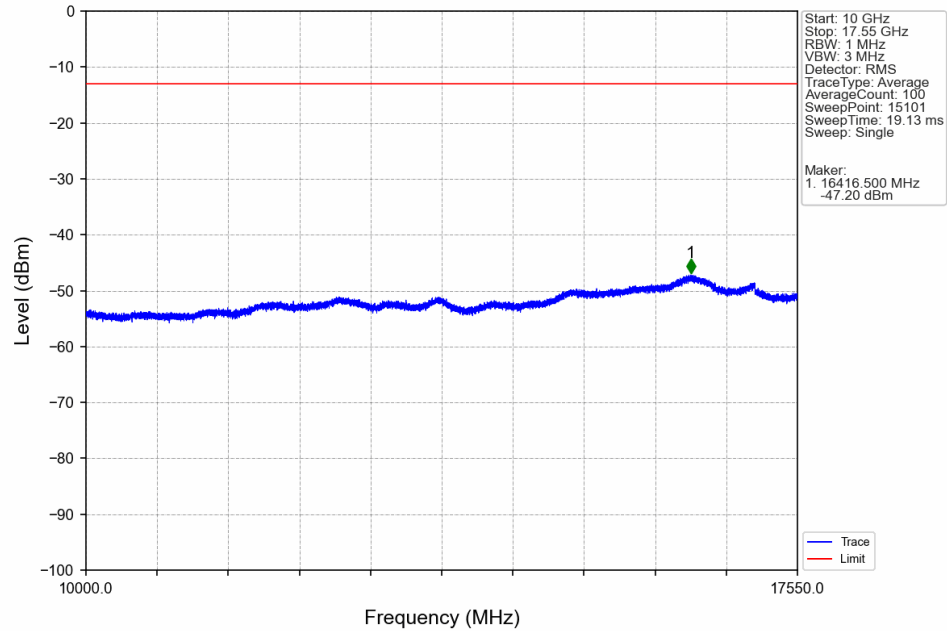
Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



---End of Attachment---