

## 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          | 24.66                 | 0.00       | 24.66      | <=30  | Pass    |
|                                          |         |              | 1732.6          | 24.76                 | 0.00       | 24.76      | <=30  | Pass    |
|                                          |         |              | 1752.6          | 24.74                 | 0.00       | 24.74      | <=30  | Pass    |
| Note1: EIRP=Conducted Power+Antenna Gain |         |              |                 |                       |            |            |       |         |

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         | 3.27          | 20.757           | 0.0121                | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.85          | 21.229           | 0.0124                | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.43          | 20.599           | 0.0120                | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.85          | 20.692           | 0.0121                | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.85          | 20.814           | 0.0122                | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.85          | 20.964           | 0.0122                | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.85          | 21.214           | 0.0124                | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.85          | 20.742           | 0.0121                | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.85          | 20.971           | 0.0122                | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.85          | 20.692           | 0.0121                | -2.5 to 2.5 | Pass    |
|         |                 | 50         | 3.85          | 20.778           | 0.0121                | -2.5 to 2.5 | Pass    |
|         | 1732.6          | 20         | 3.27          | -0.129           | -0.0001               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.85          | 0.179            | 0.0001                | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.43          | 0.021            | 0.0000                | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.85          | 2.761            | 0.0016                | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.85          | 0.279            | 0.0002                | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.85          | 0.057            | 0.0000                | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.85          | 0.093            | 0.0001                | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.85          | -0.157           | -0.0001               | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.85          | -0.265           | -0.0002               | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.85          | -0.079           | 0.0000                | -2.5 to 2.5 | Pass    |
|         |                 | 50         | 3.85          | 0.050            | 0.0000                | -2.5 to 2.5 | Pass    |
|         | 1752.6          | 20         | 3.27          | -25.220          | -0.0144               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.85          | -25.148          | -0.0143               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.43          | -24.877          | -0.0142               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.85          | -26.071          | -0.0149               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.85          | -25.256          | -0.0144               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.85          | -25.091          | -0.0143               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.85          | -25.513          | -0.0146               | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.85          | -25.713          | -0.0147               | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.85          | -25.835          | -0.0147               | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.85          | -25.063          | -0.0143               | -2.5 to 2.5 | Pass    |
|         |                 | 50         | 3.85          | -25.685          | -0.0147               | -2.5 to 2.5 | Pass    |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band4\_OBW

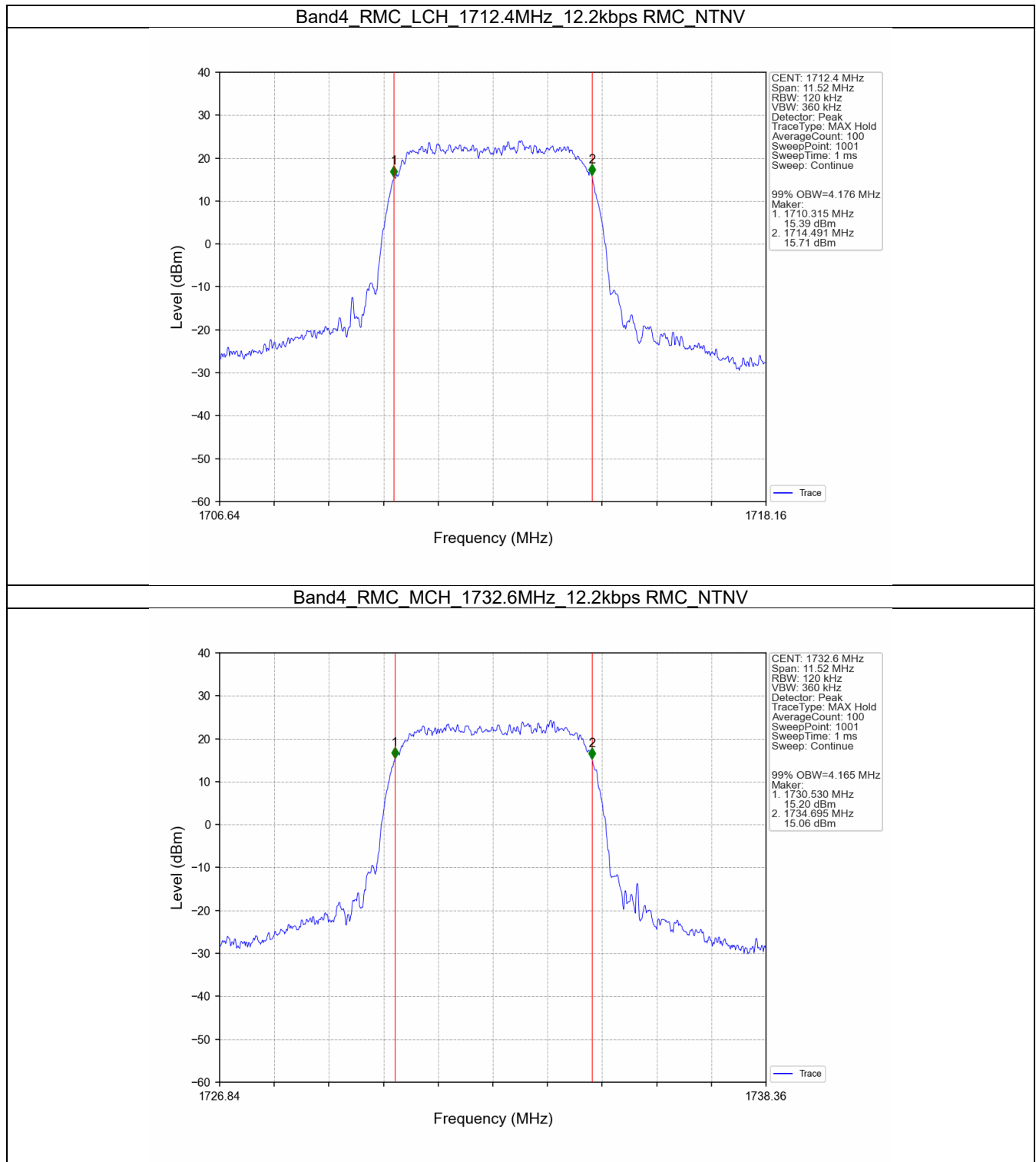
| Band: 4 |         |              |                 |                              |       |         |
|---------|---------|--------------|-----------------|------------------------------|-------|---------|
| ENV     | Mode    |              | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       | Verdict |
|         | Network | Subset       |                 | Result                       | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4          | 4.176                        | /     | Pass    |
|         |         |              | 1732.6          | 4.165                        | /     | Pass    |
|         |         |              | 1752.6          | 4.174                        | /     | Pass    |

##### 3.1.2 Band4\_XDB

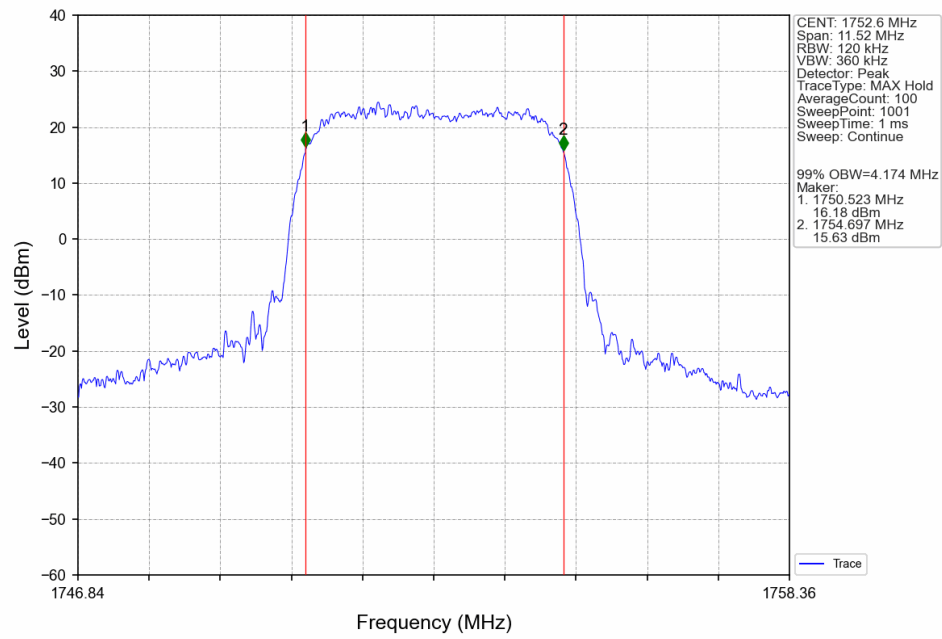
| Band: 4 |         |              |                 |                      |       |         |
|---------|---------|--------------|-----------------|----------------------|-------|---------|
| ENV     | Mode    |              | Frequency (MHz) | 26dB Bandwidth (MHz) |       | Verdict |
|         | Network | Subset       |                 | Result               | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4          | 4.766                | /     | Pass    |
|         |         |              | 1732.6          | 4.760                | /     | Pass    |
|         |         |              | 1752.6          | 4.754                | /     | Pass    |

## 3.2 Test Graph

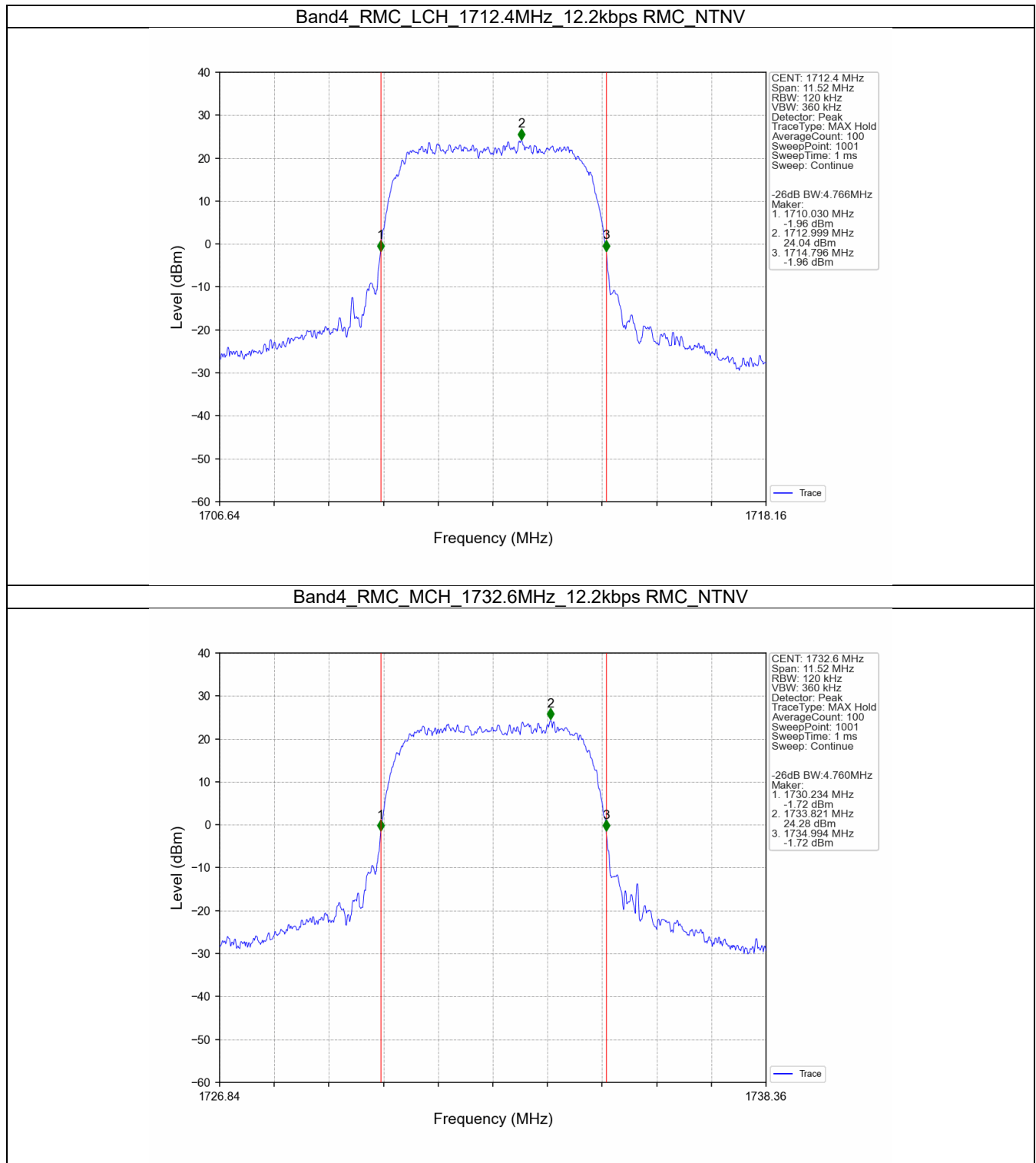
### 3.2.1 Band4\_OBW



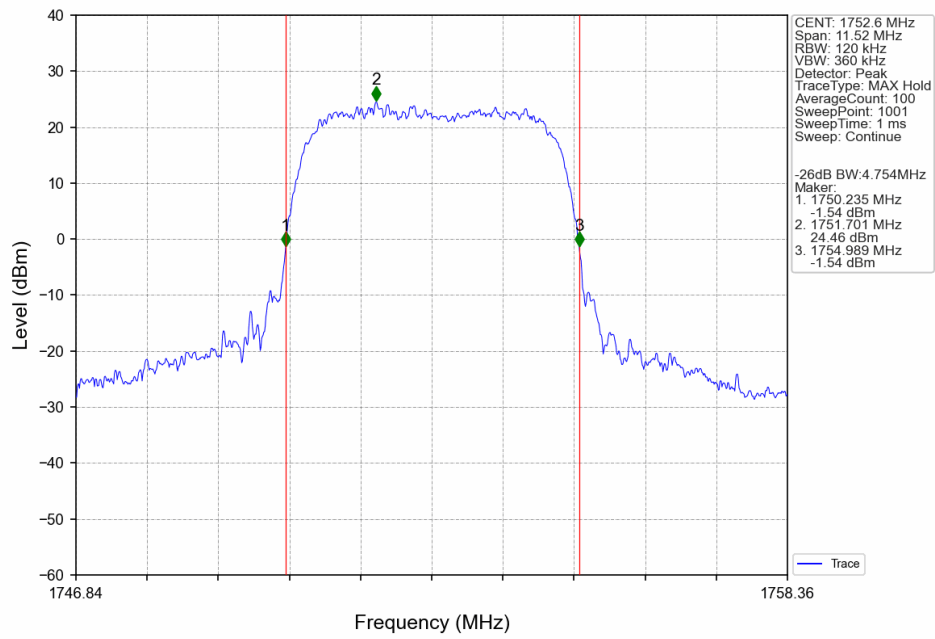
Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



## 3.2.2 Band4\_XDB



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



## 4. Peak-Average Ratio

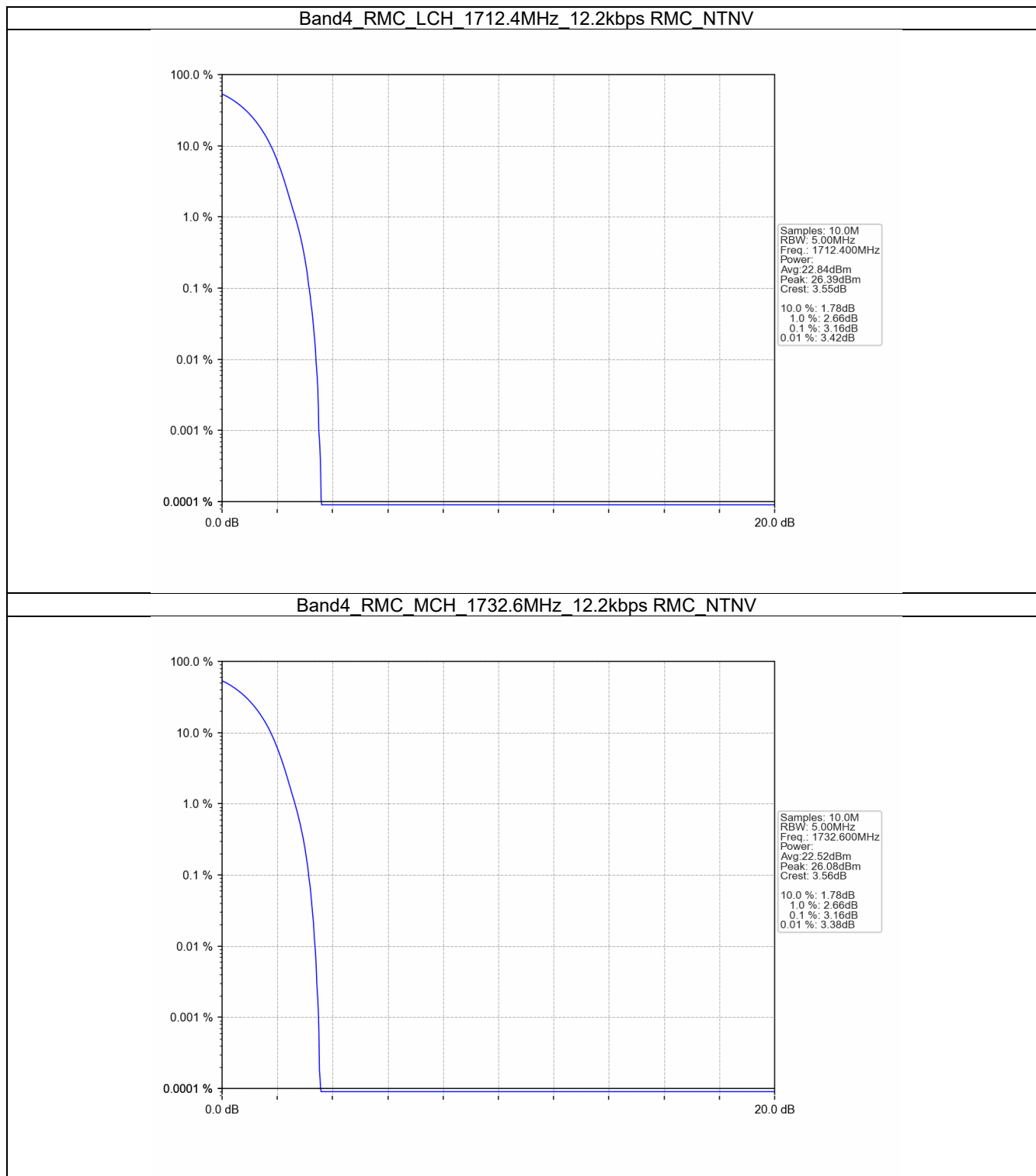
### 4.1 Test Result

#### 4.1.1 Band4

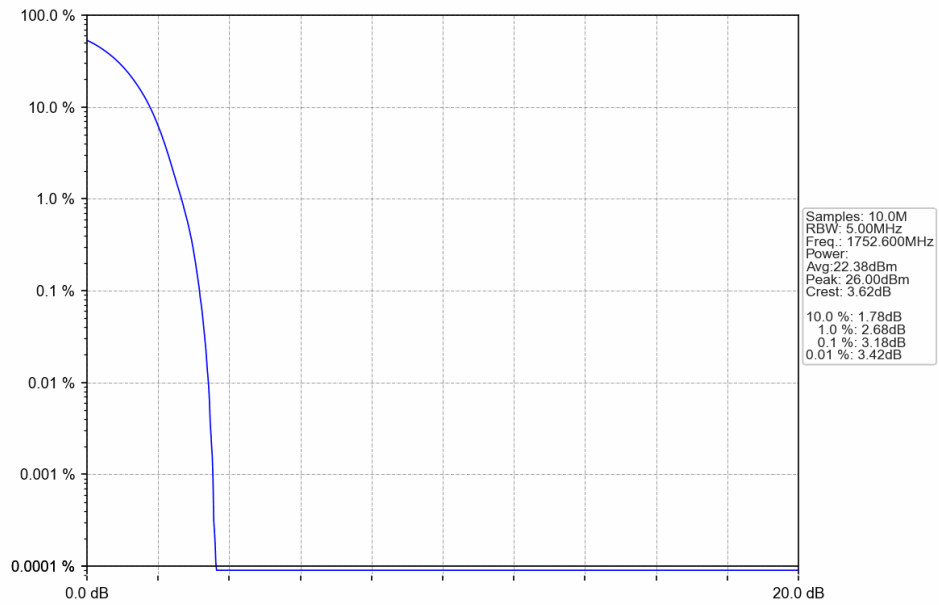
| Band: 4 |         |              |                    |                         |       |         |
|---------|---------|--------------|--------------------|-------------------------|-------|---------|
| ENV     | Mode    |              | Frequency<br>(MHz) | Peak-Average Ratio (dB) |       | Verdict |
|         | Network | Subset       |                    | Result                  | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4             | 3.16                    | <=13  | Pass    |
|         |         |              | 1732.6             | 3.16                    | <=13  | Pass    |
|         |         |              | 1752.6             | 3.18                    | <=13  | Pass    |

## 4.2 Test Graph

### 4.2.1 Band4



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



## 5. Spurious Emission

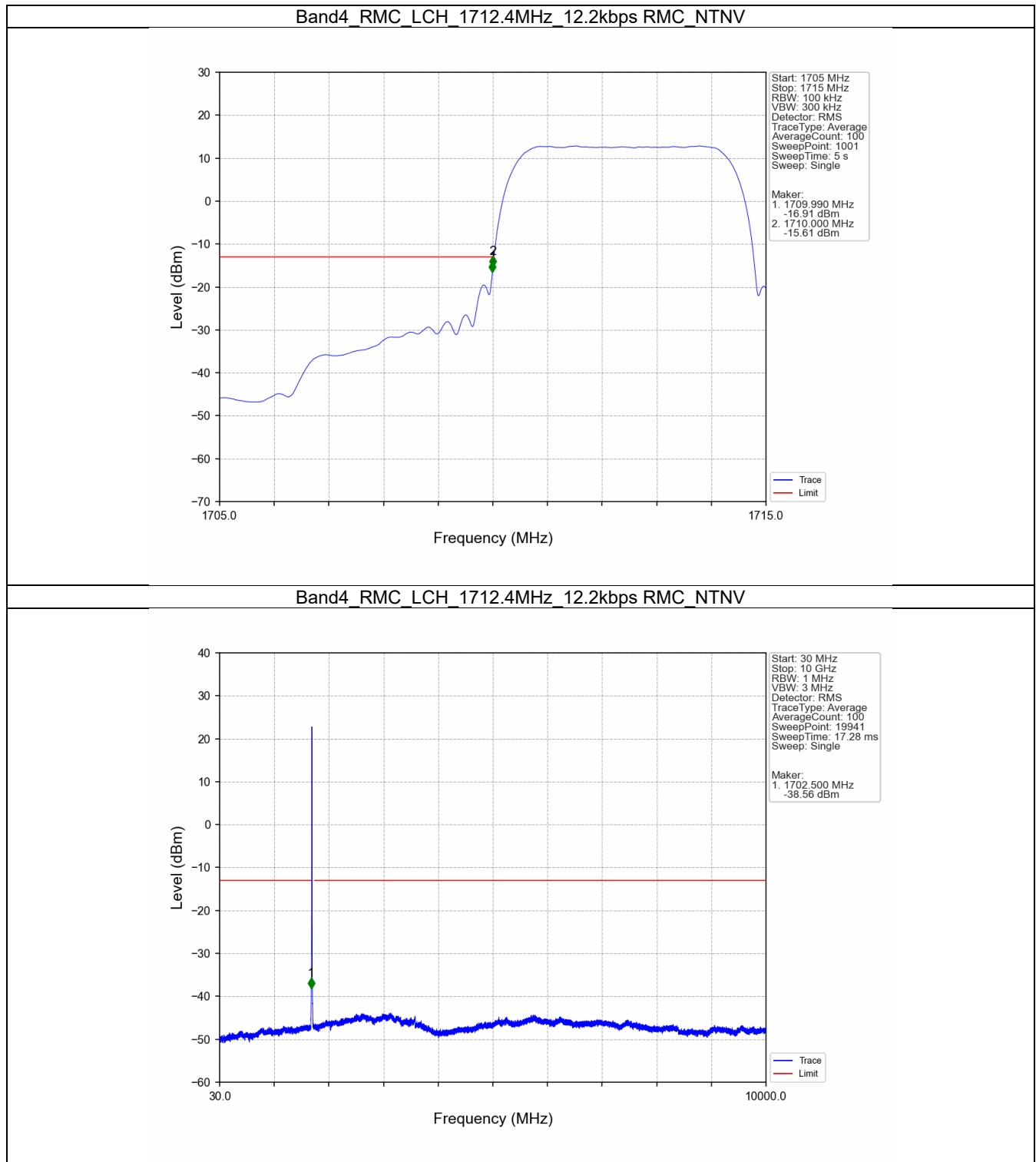
### 5.1 Test Result

#### 5.1.1 Band4

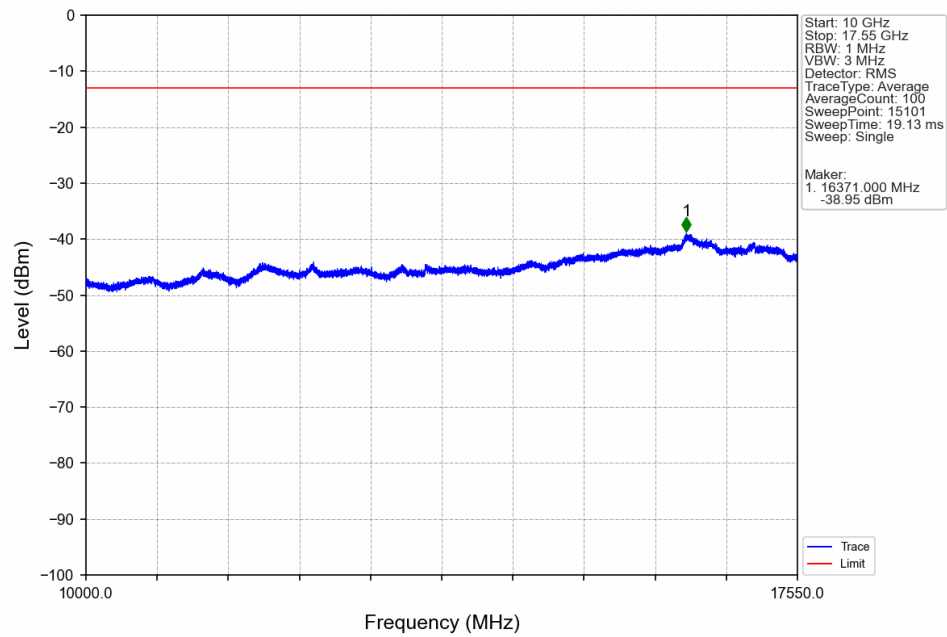
| Band: 4 |         |              |                    |                     |       |
|---------|---------|--------------|--------------------|---------------------|-------|
| ENV     | Mode    |              | Frequency<br>(MHz) | Spurious Emission   |       |
|         | Network | Subset       |                    | 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

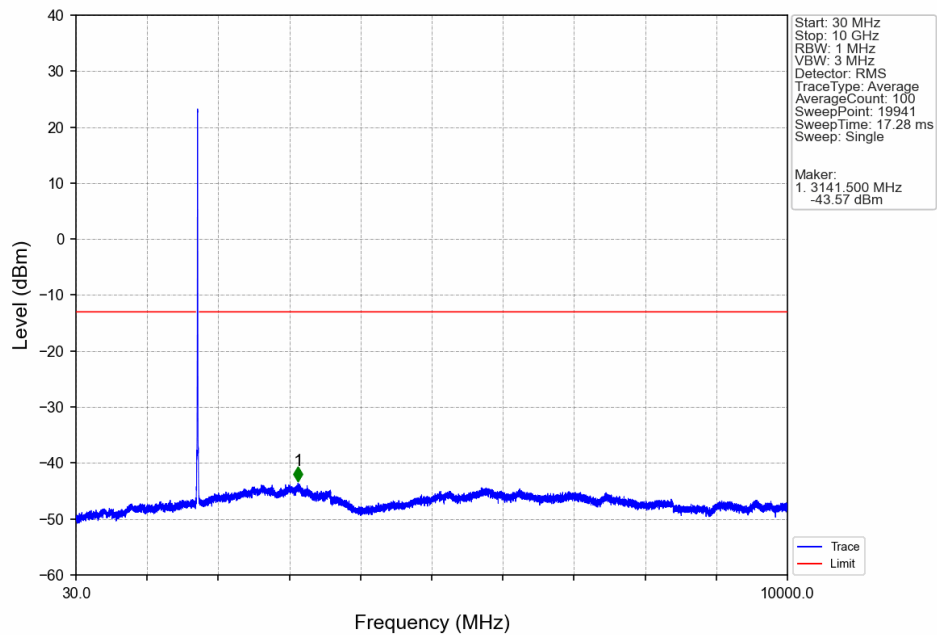
### 5.2.1 Band4



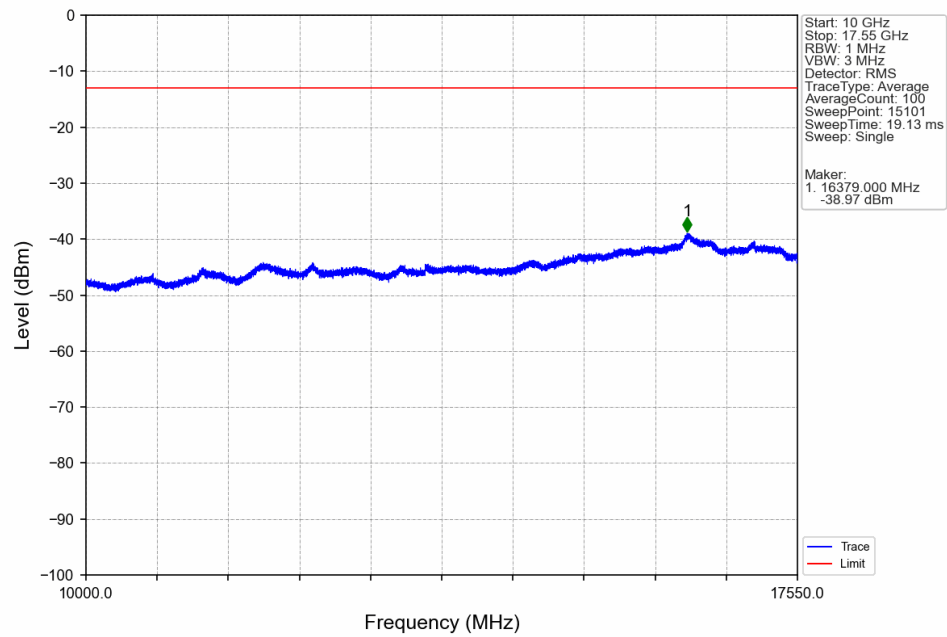
Band4\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



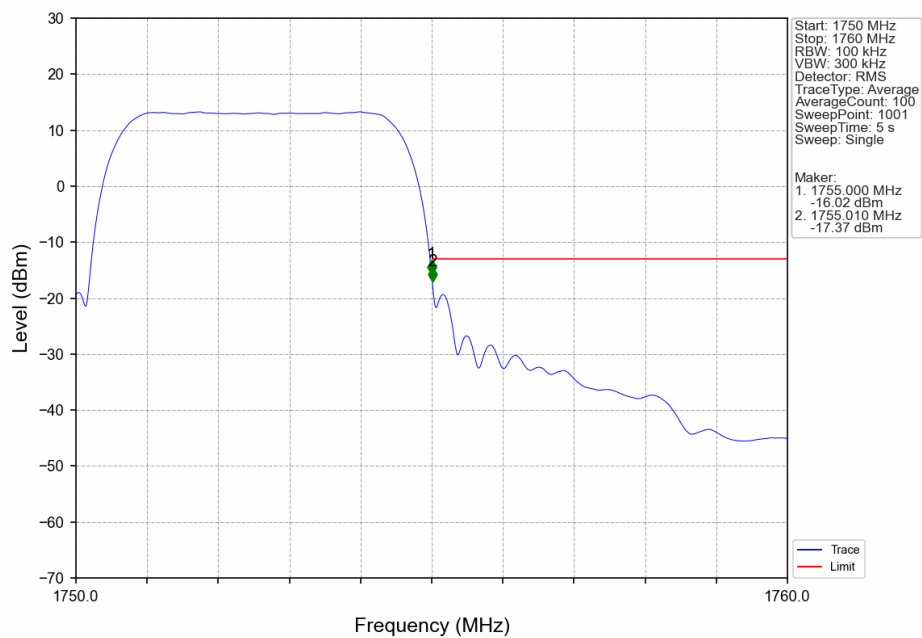
Band4\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



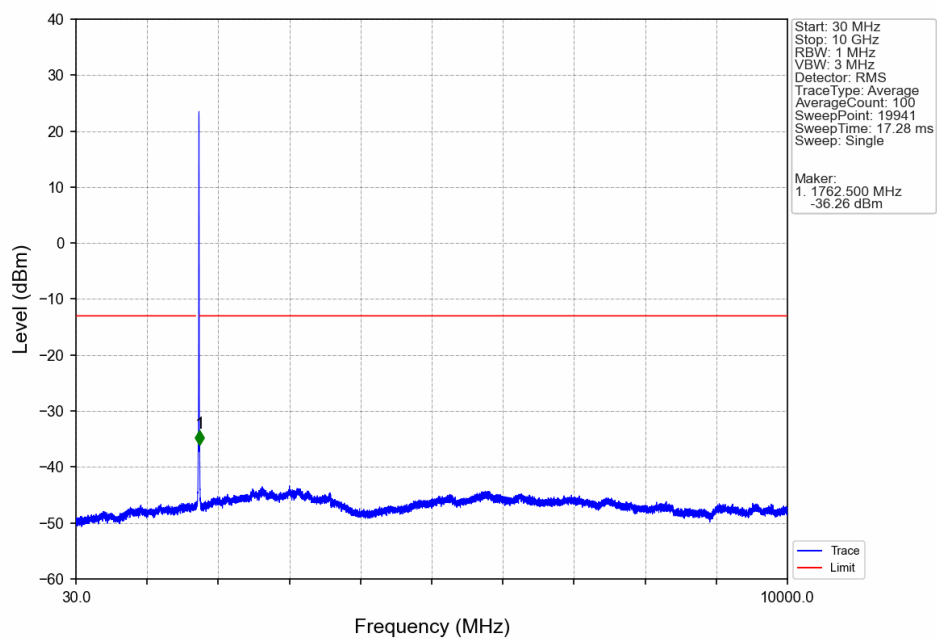
Band4\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



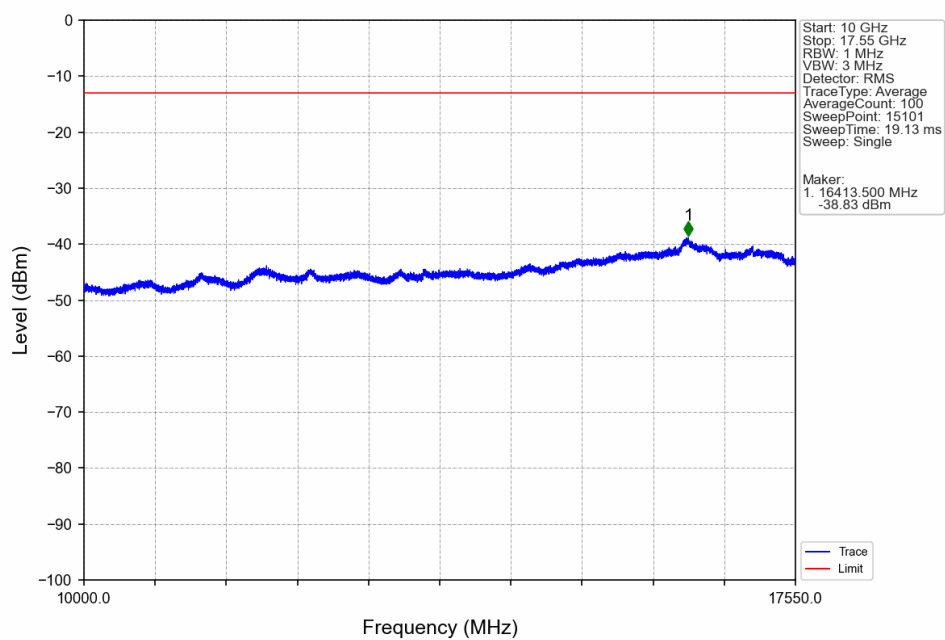
Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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



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



- End of the Appendix -