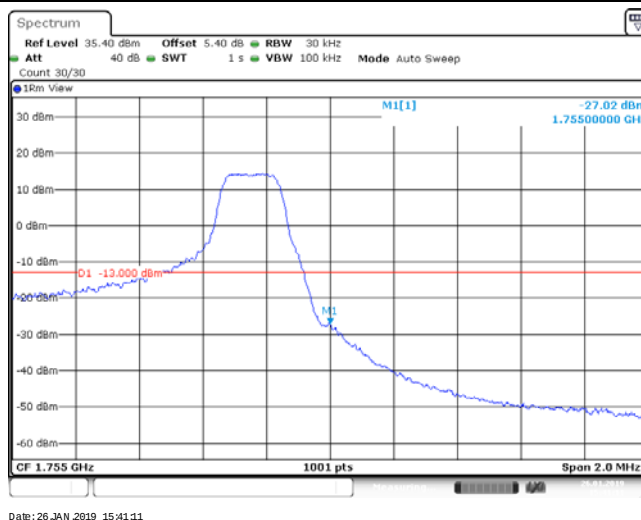
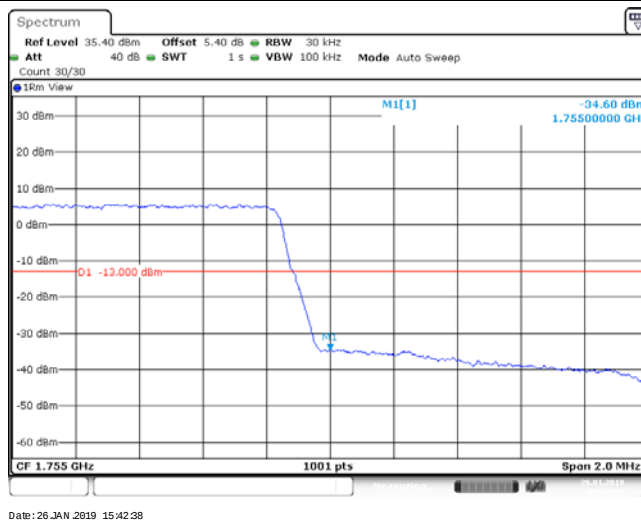




Band4\_1.4MHz\_16QAM\_20393\_6RB#0



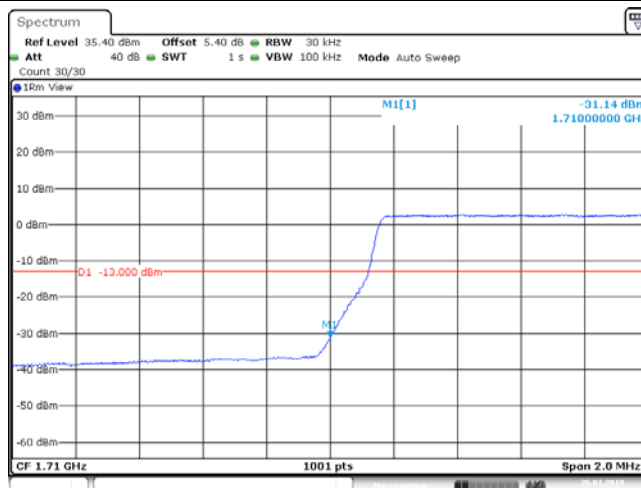
Band4\_3MHz\_QPSK\_19965\_1RB#0





Date: 26 JAN 2019 15:44:88

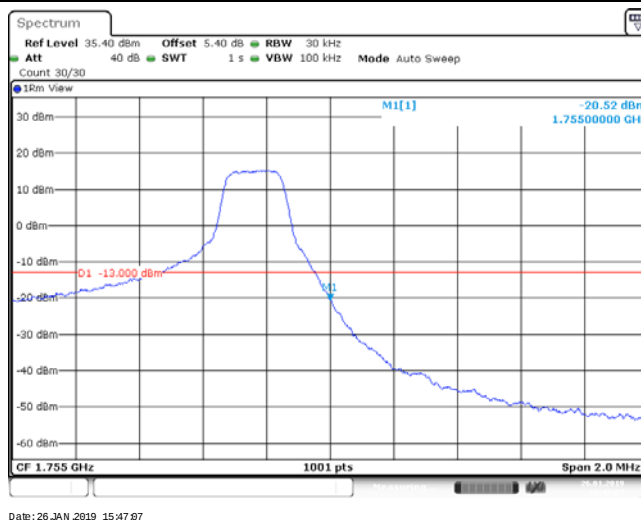
## Band4\_3MHz\_QPSK\_19965\_15RB#0



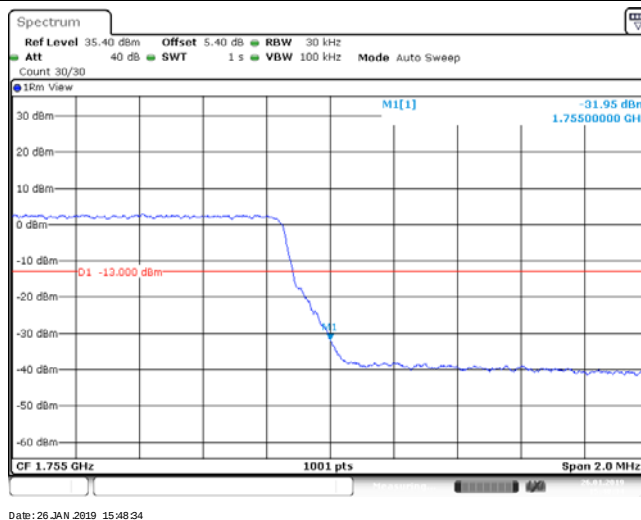
Date: 26 JAN 2019 15:45:34

## Band4\_3MHz\_QPSK\_20385\_1RB#14



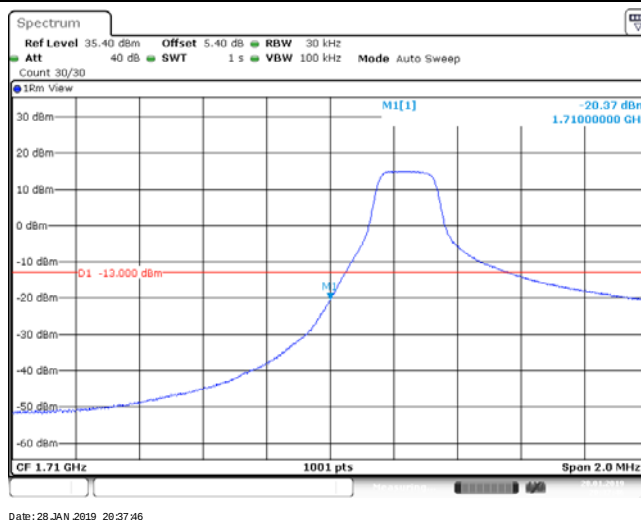


Band4\_3MHz\_QPSK\_20385\_15RB#0

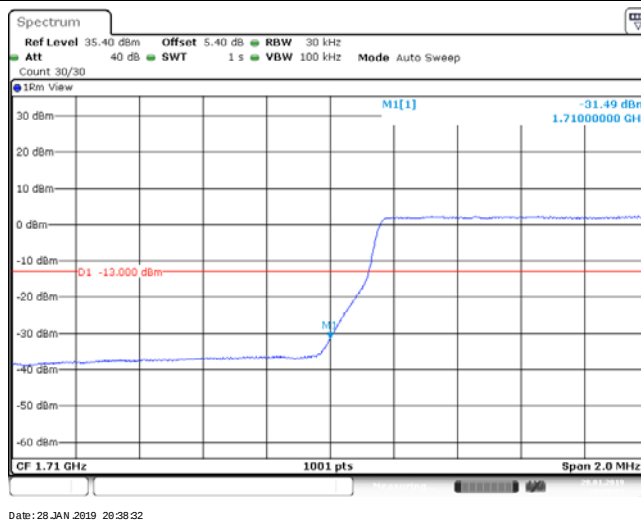


Band4\_3MHz\_64QAM\_19965\_1RB#0



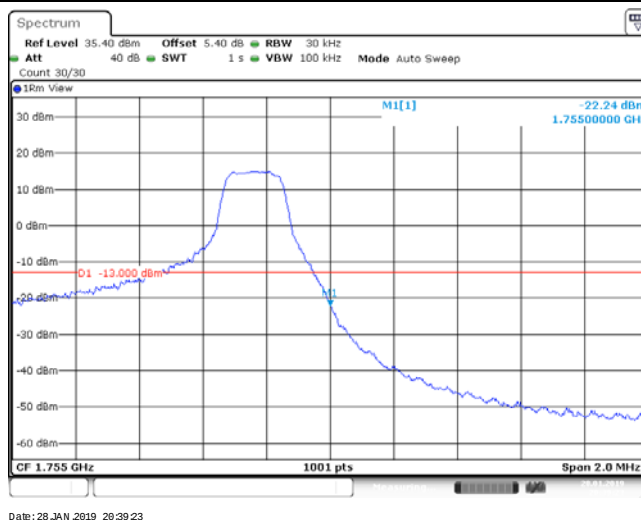


Band4\_3MHz\_64QAM\_19965\_15RB#0

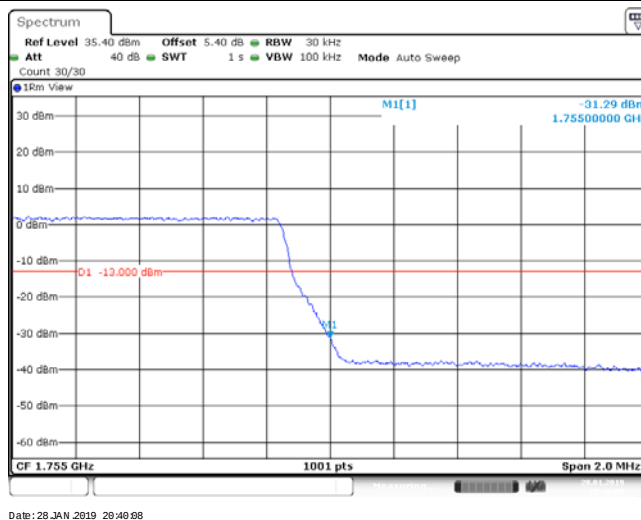


Band4\_3MHz\_64QAM\_20385\_1RB#14





Band4\_3MHz\_64QAM\_20385\_15RB#0



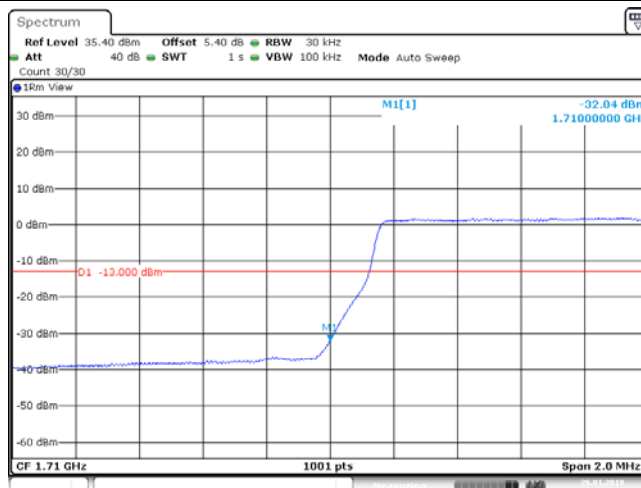
Band4\_3MHz\_16QAM\_19965\_1RB#0





Date: 26 JAN 2019 15:44:51

Band4\_3MHz\_16QAM\_19965\_15RB#0



Date: 26 JAN 2019 15:46:17

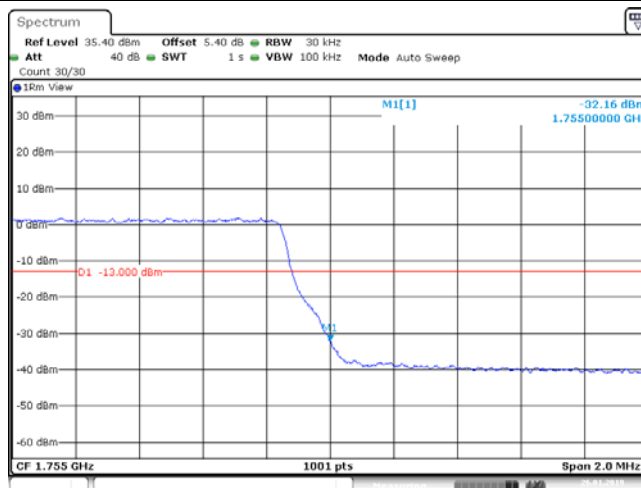
Band4\_3MHz\_16QAM\_20385\_1RB#14





Date: 26 JAN 2019 15:47:51

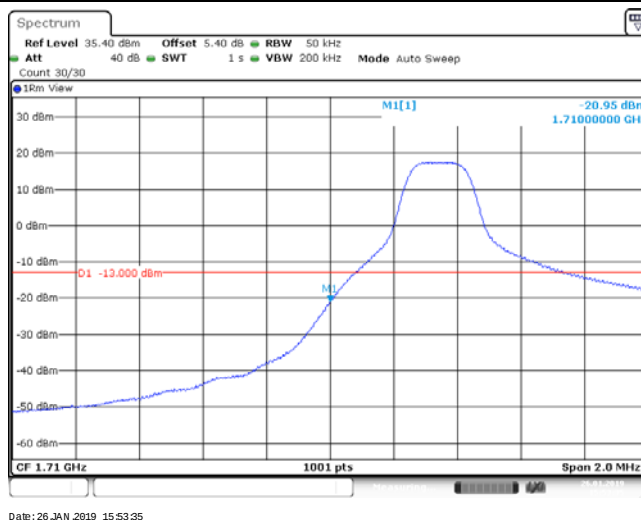
Band4\_3MHz\_16QAM\_20385\_15RB#0



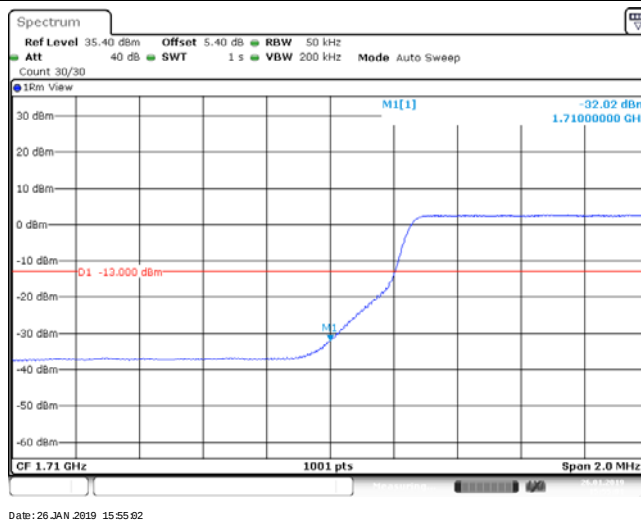
Date: 26 JAN 2019 15:49:18

Band4\_5MHz\_QPSK\_19975\_1RB#0



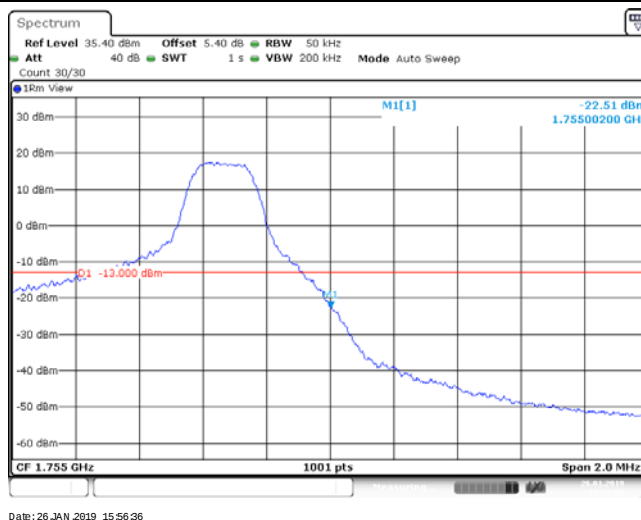


Band4\_5MHz\_QPSK\_19975\_25RB#0

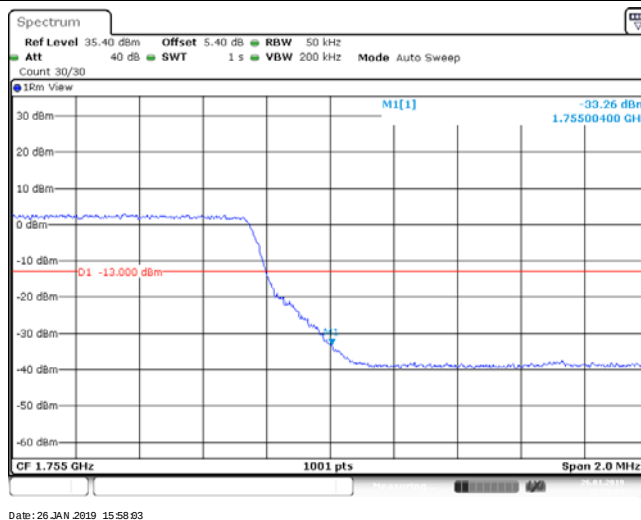


Band4\_5MHz\_QPSK\_20375\_1RB#24



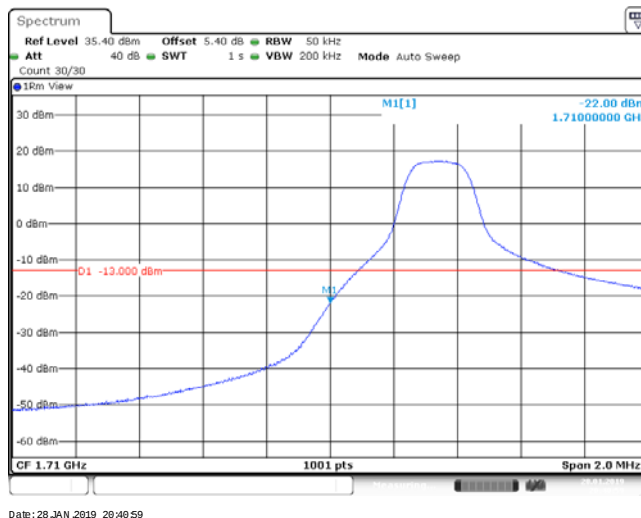


Band4\_5MHz\_QPSK\_20375\_25RB#0



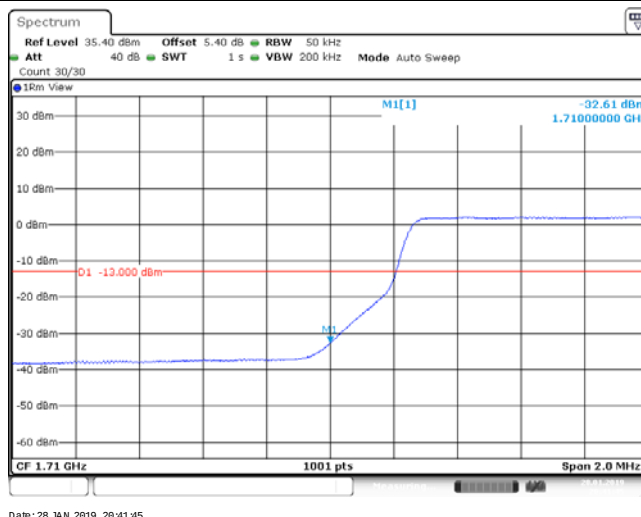
Band4\_5MHz\_64QAM\_19975\_1RB#0





Date: 28 JAN 2019 20:40:59

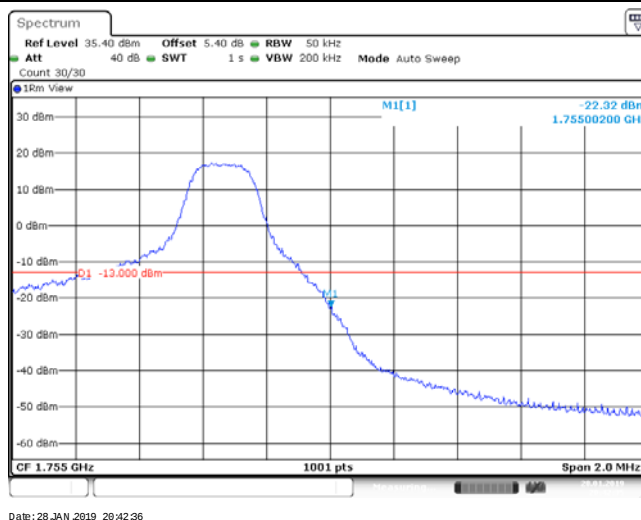
Band4\_5MHz\_64QAM\_19975\_25RB#0



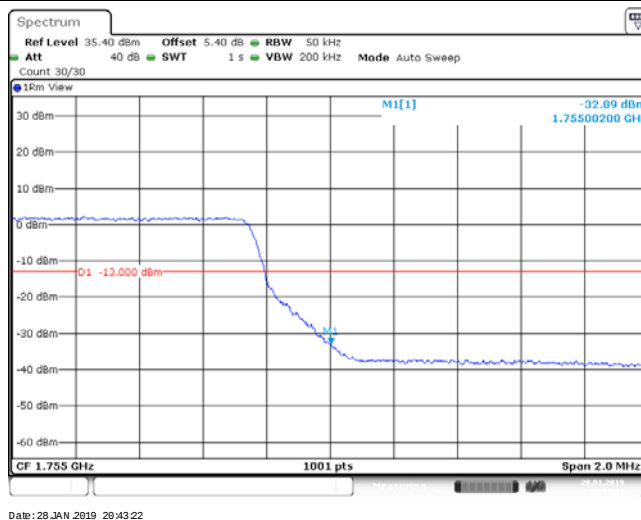
Date: 28 JAN 2019 20:41:45

Band4\_5MHz\_64QAM\_20375\_1RB#24



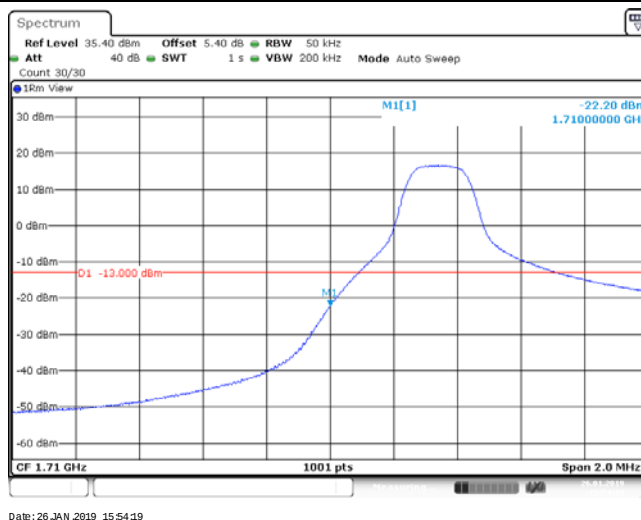


Band4\_5MHz\_64QAM\_20375\_25RB#0

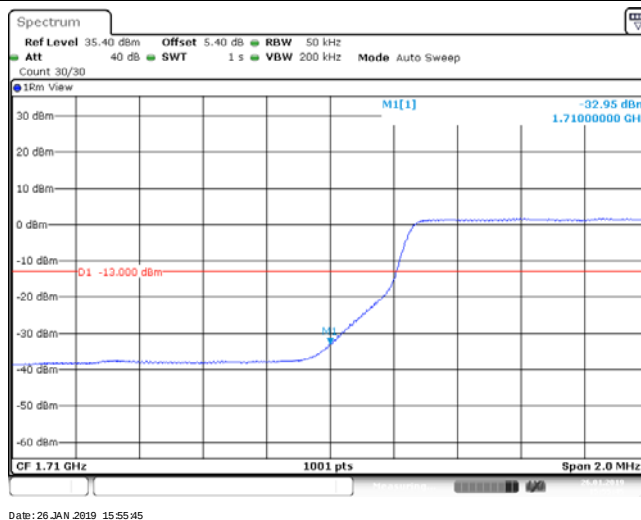


Band4\_5MHz\_16QAM\_19975\_1RB#0



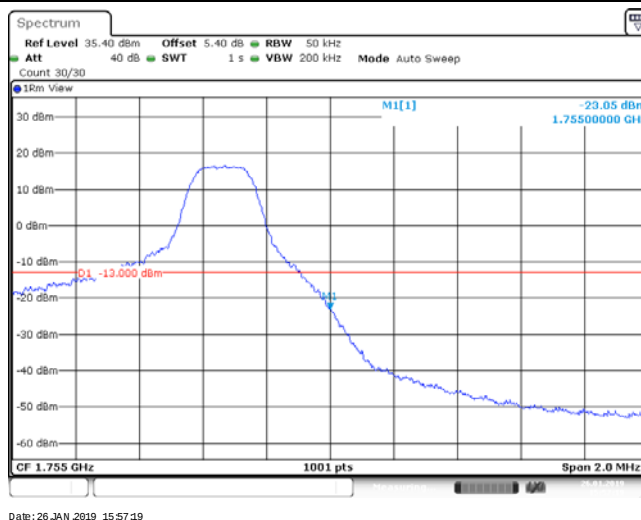


Band4\_5MHz\_16QAM\_19975\_25RB#0

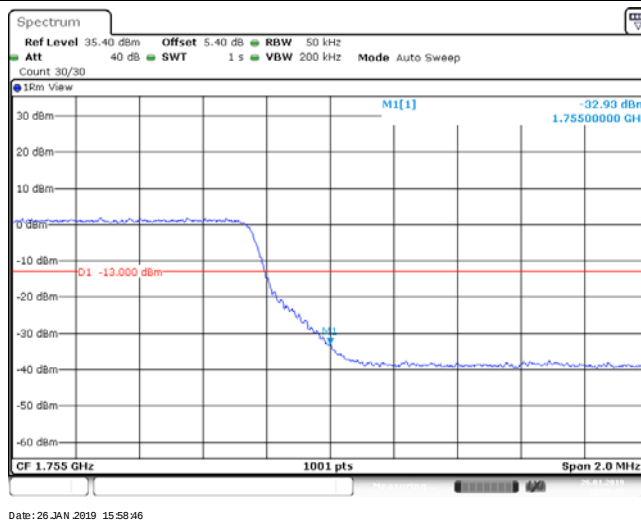


Band4\_5MHz\_16QAM\_20375\_1RB#24



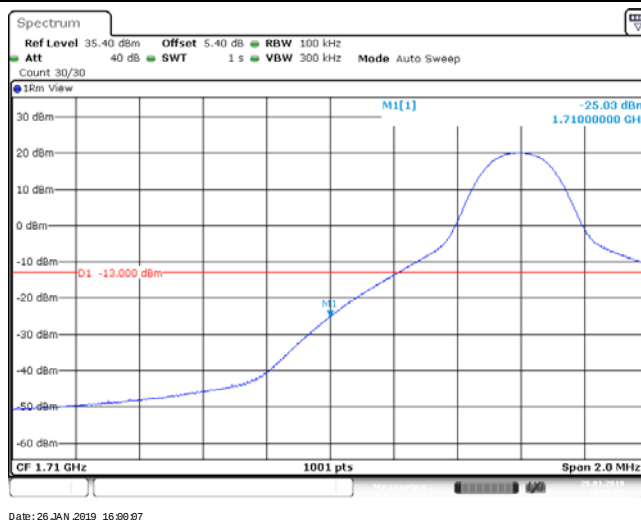


Band4\_5MHz\_16QAM\_20375\_25RB#0

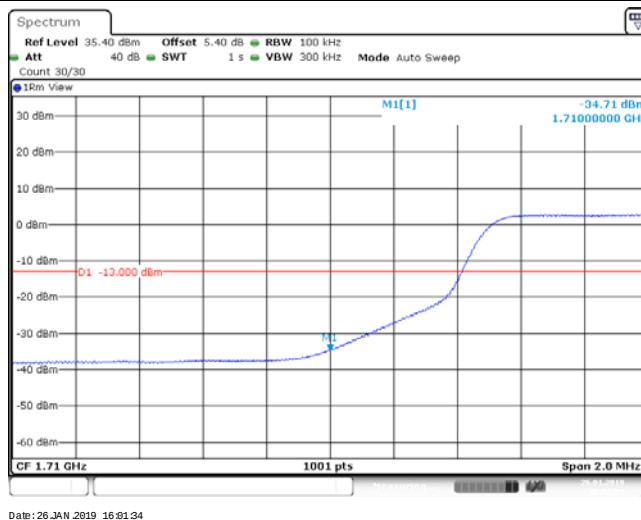


Band4\_10MHz\_QPSK\_20000\_1RB#0



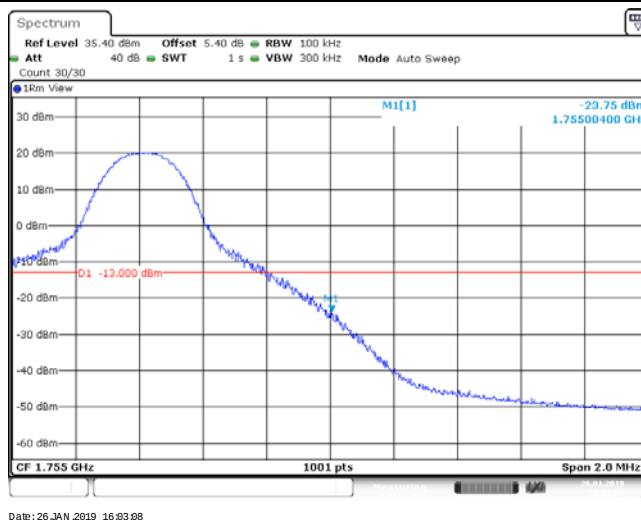


Band4\_10MHz\_QPSK\_20000\_50RB#0

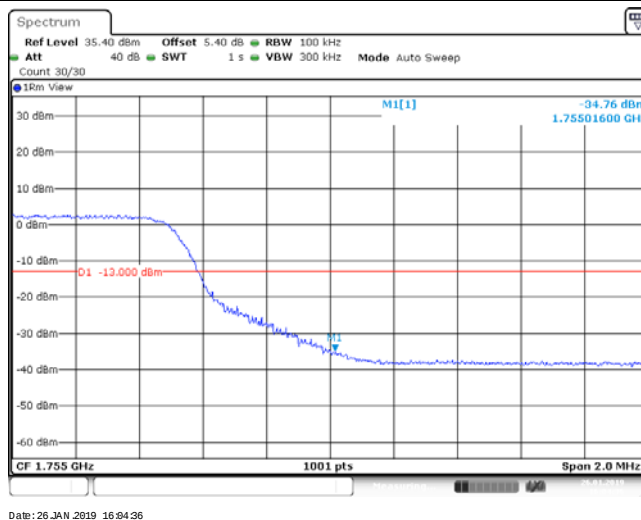


Band4\_10MHz\_QPSK\_20350\_1RB#49



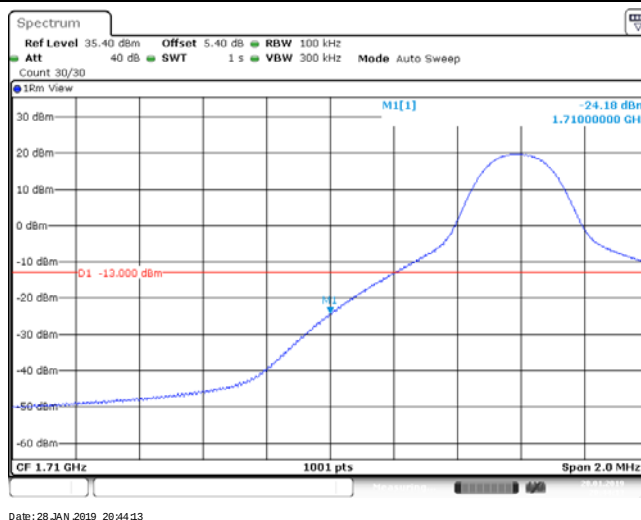


Band4\_10MHz\_QPSK\_20350\_50RB#0

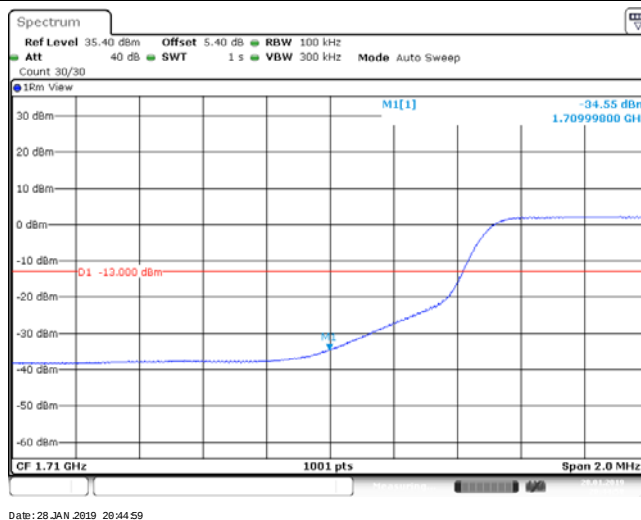


Band4\_10MHz\_64QAM\_20000\_1RB#0



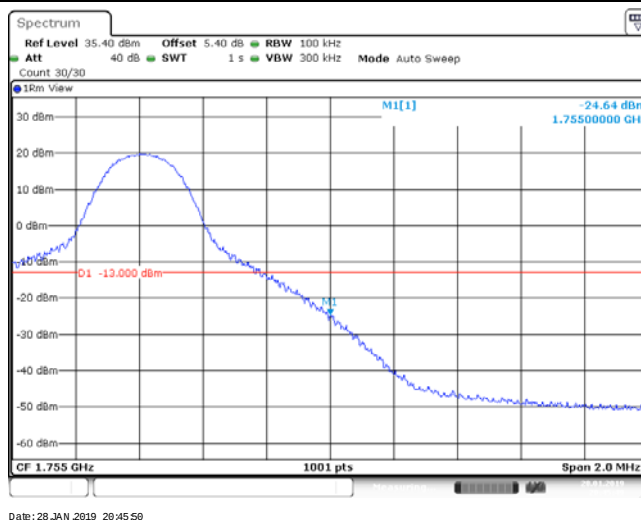


Band4\_10MHz\_64QAM\_20000\_50RB#0

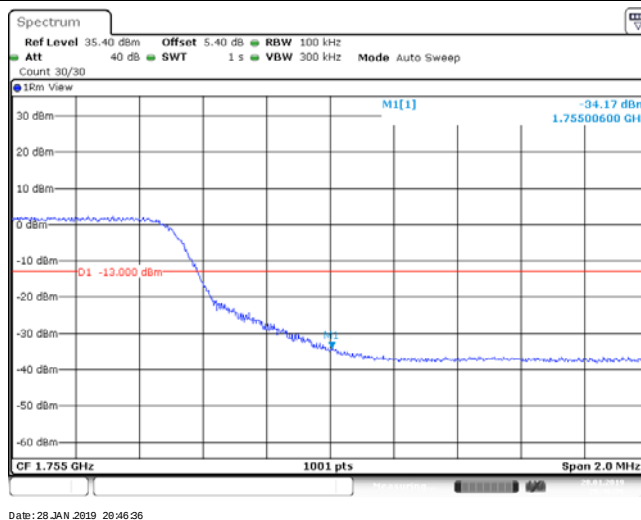


Band4\_10MHz\_64QAM\_20350\_1RB#49



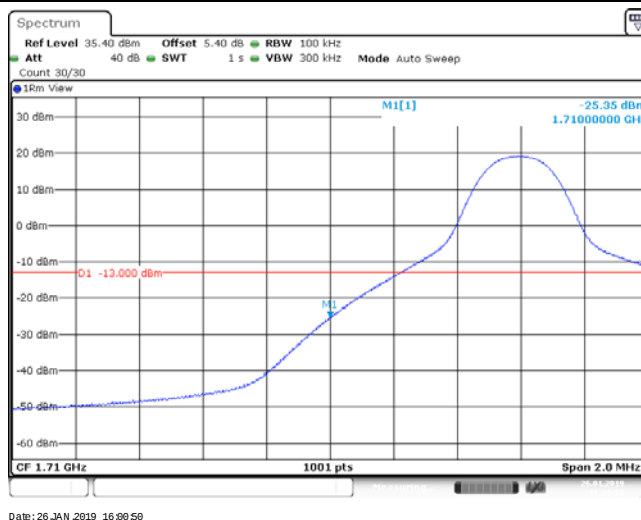


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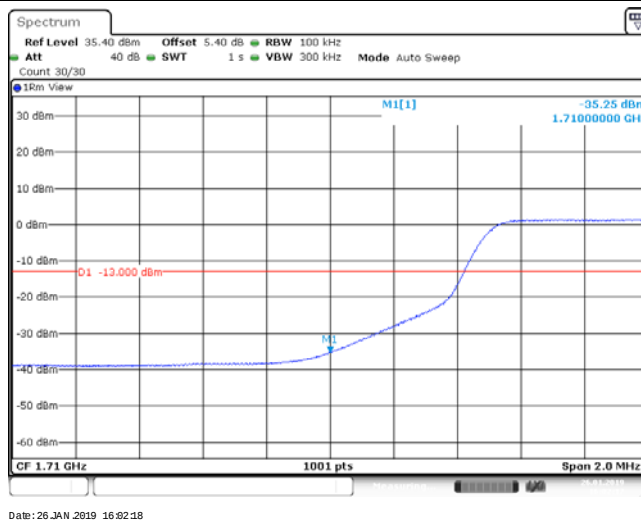


Band4\_10MHz\_16QAM\_20000\_1RB#0



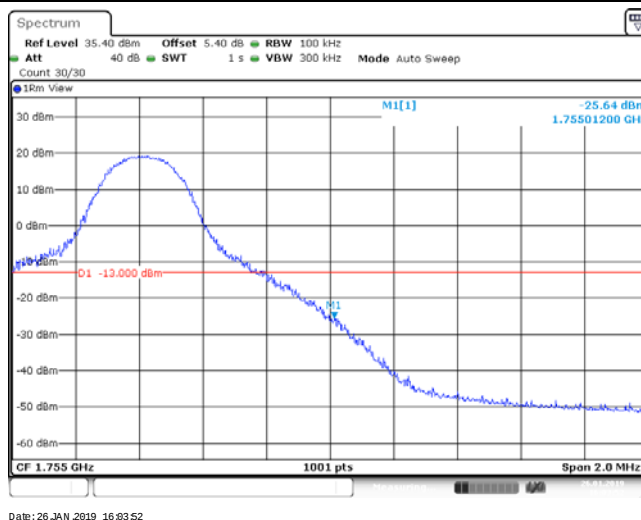


Band4\_10MHz\_16QAM\_20000\_50RB#0

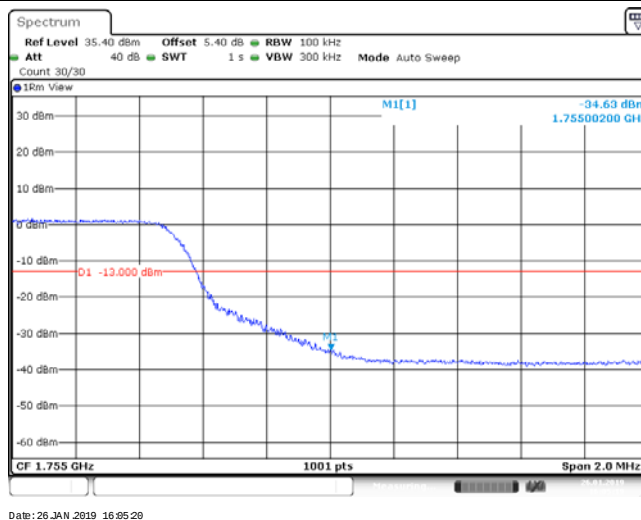


Band4\_10MHz\_16QAM\_20350\_1RB#49



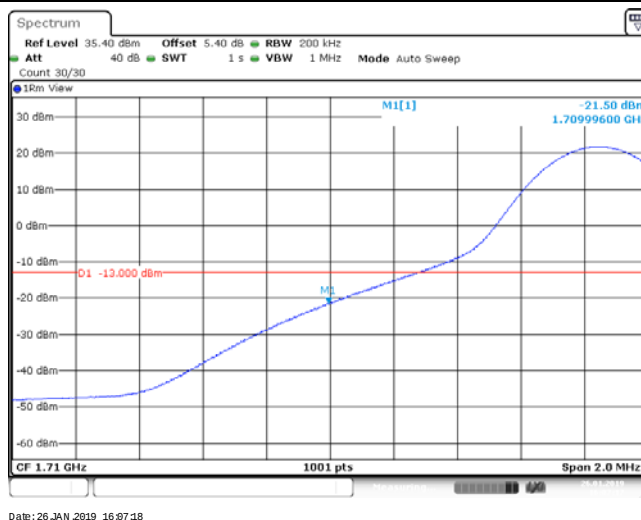


Band4\_10MHz\_16QAM\_20350\_50RB#0

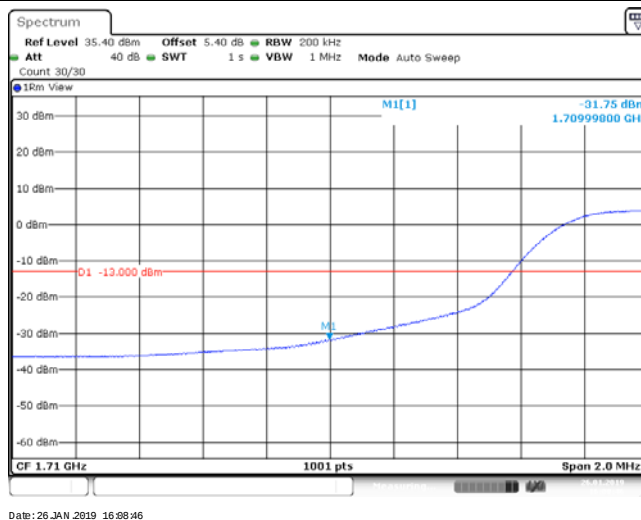


Band4\_15MHz\_QPSK\_20025\_1RB#0



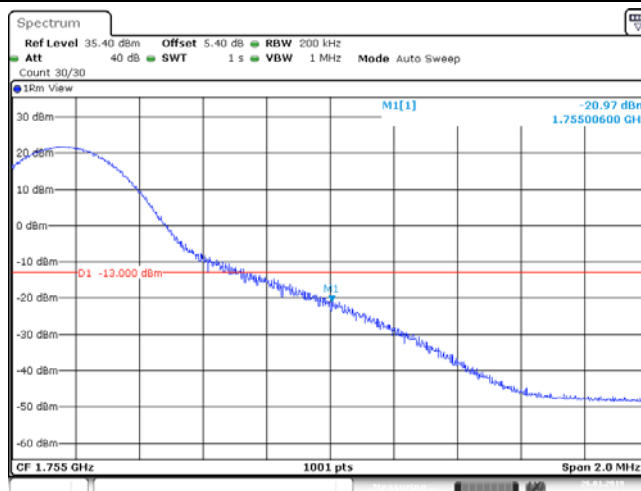


Band4\_15MHz\_QPSK\_20025\_75RB#0



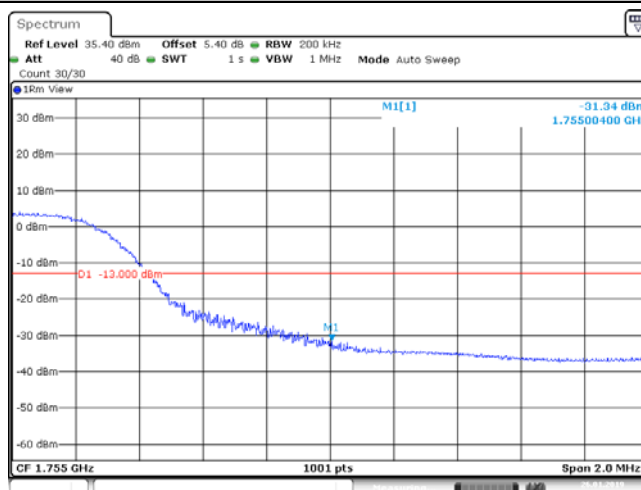
Band4\_15MHz\_QPSK\_20325\_1RB#74





Date: 26 JAN 2019 16:18:22

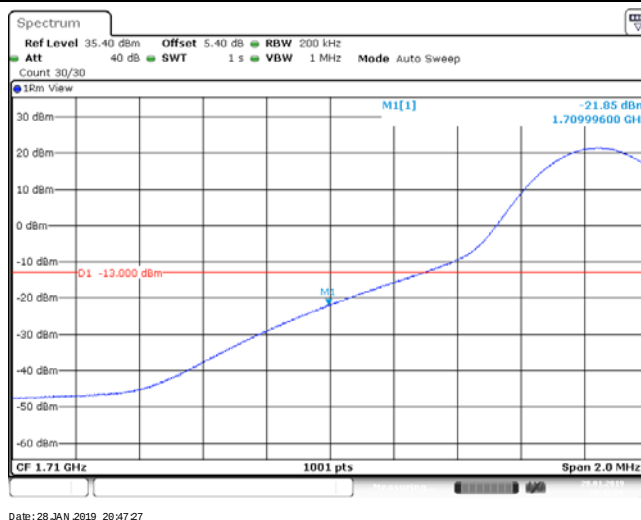
Band4\_15MHz\_QPSK\_20325\_75RB#0



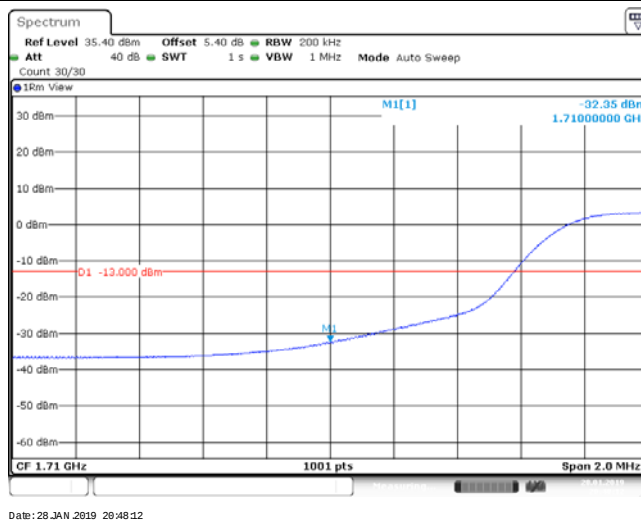
Date: 26 JAN 2019 16:11:50

Band4\_15MHz\_64QAM\_20025\_1RB#0



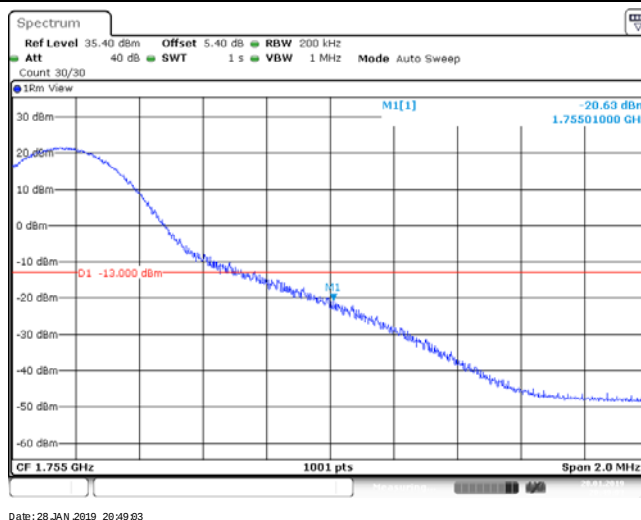


Band4\_15MHz\_64QAM\_20025\_75RB#0

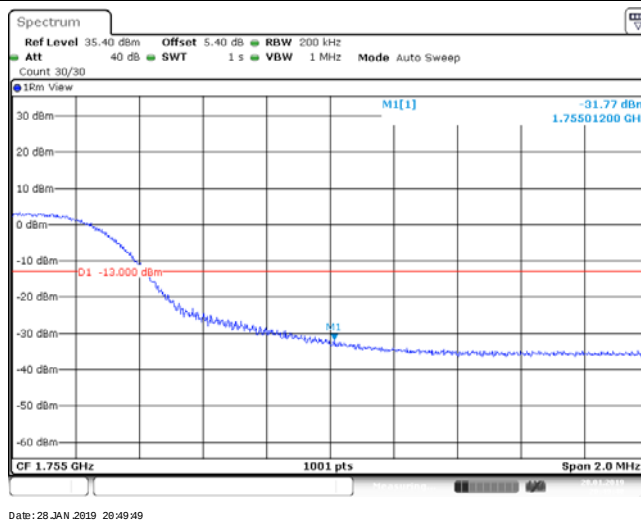


Band4\_15MHz\_64QAM\_20325\_1RB#74



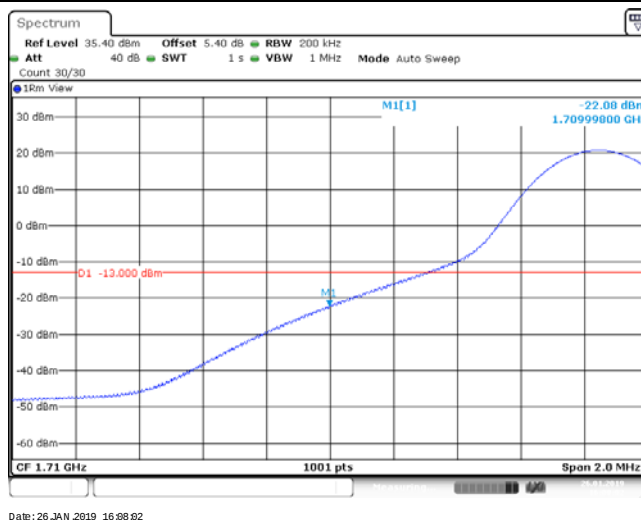


Band4\_15MHz\_64QAM\_20325\_75RB#0

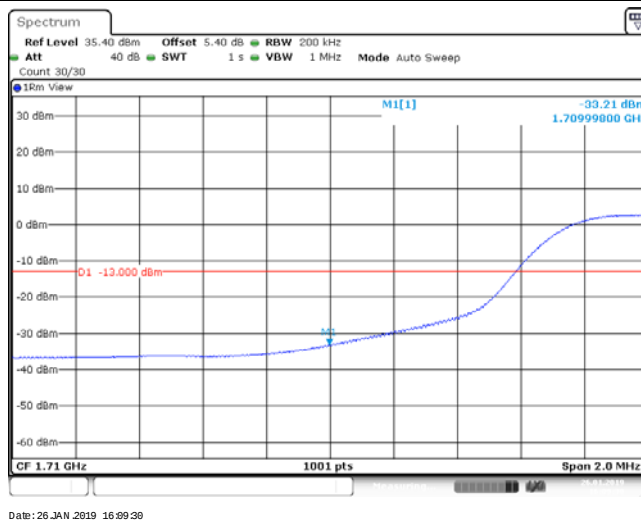


Band4\_15MHz\_16QAM\_20025\_1RB#0



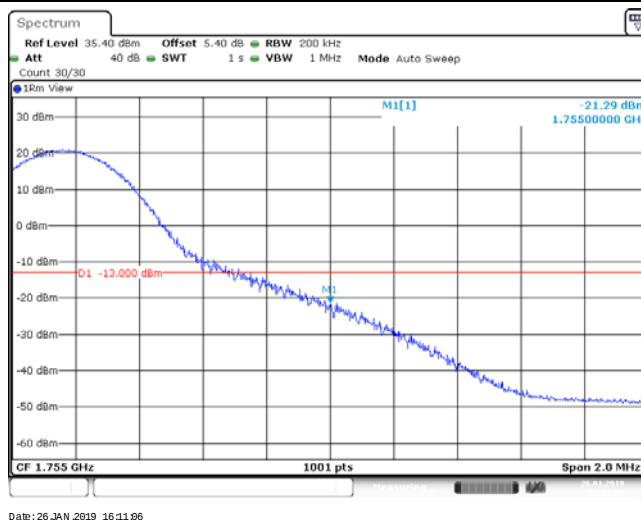


Band4\_15MHz\_16QAM\_20025\_75RB#0

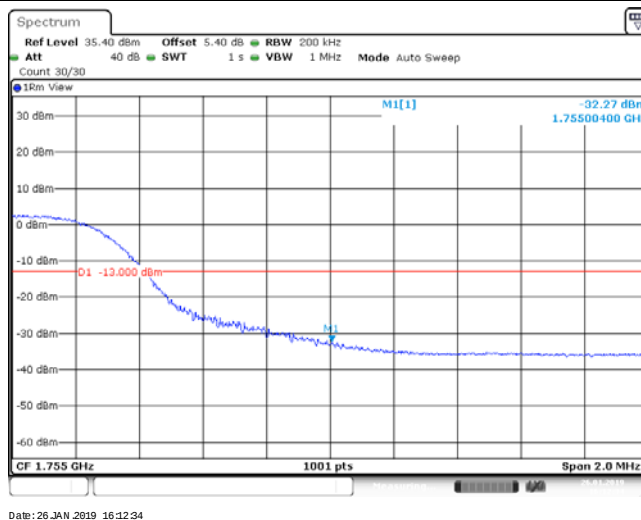


Band4\_15MHz\_16QAM\_20325\_1RB#74



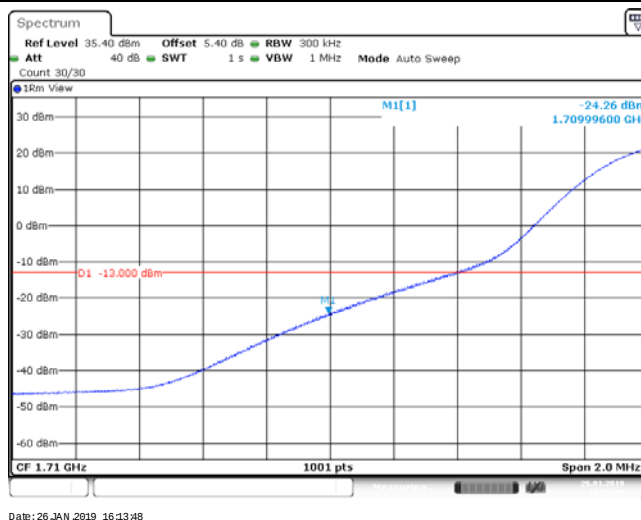


Band4\_15MHz\_16QAM\_20325\_75RB#0

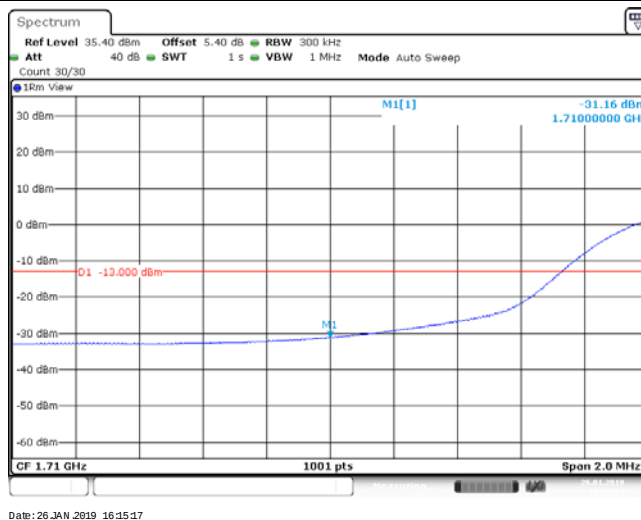


Band4\_20MHz\_QPSK\_20050\_1RB#0



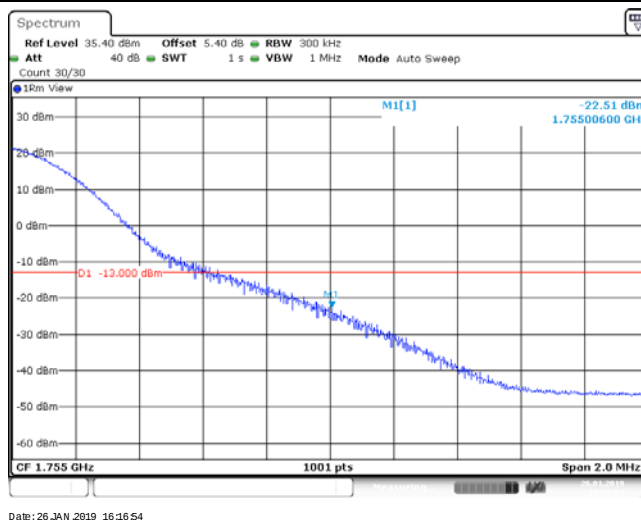


Band4\_20MHz\_QPSK\_20050\_100RB#0

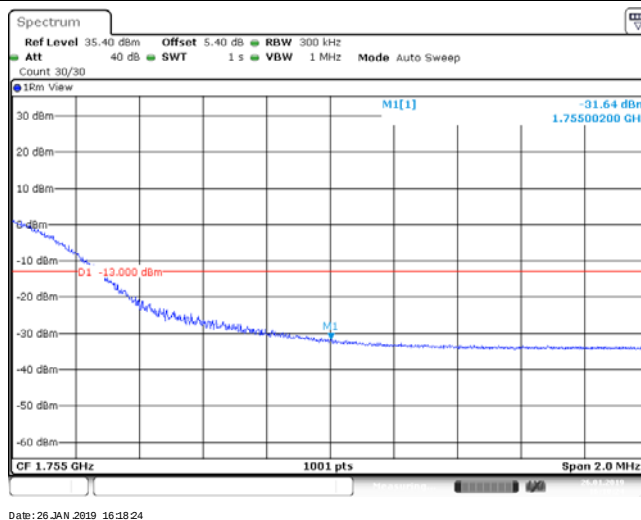


Band4\_20MHz\_QPSK\_20300\_1RB#99



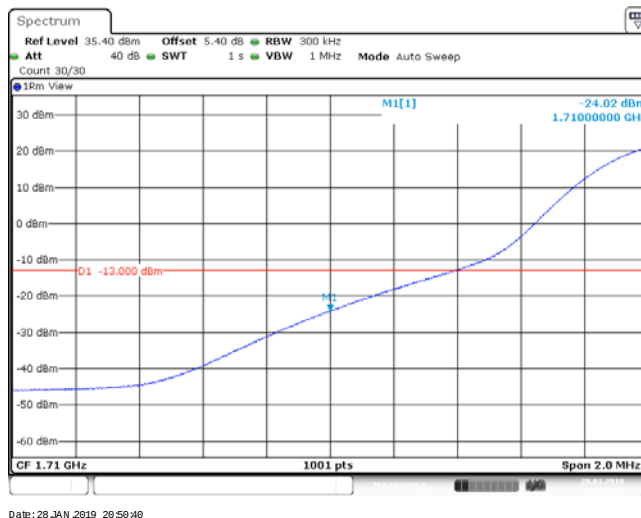


Band4\_20MHz\_QPSK\_20300\_100RB#0

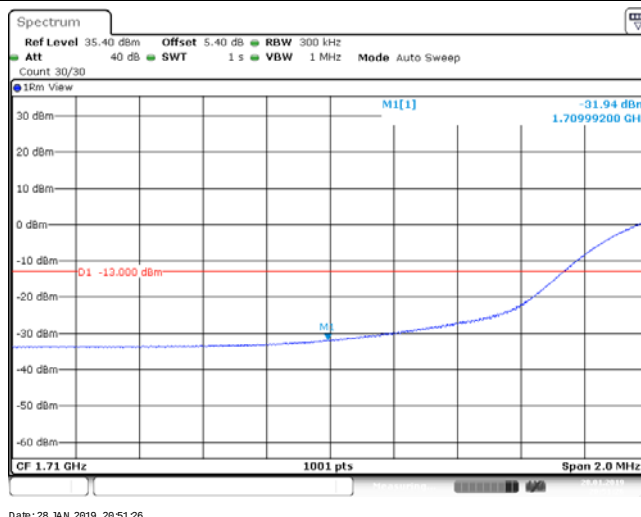


Band4\_20MHz\_64QAM\_20050\_1RB#0



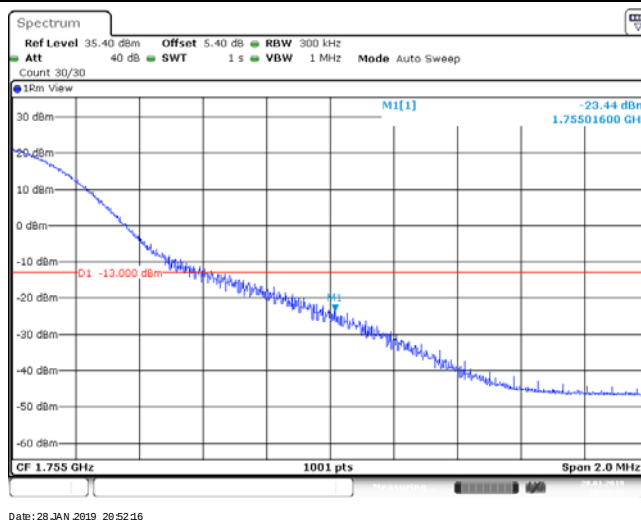


Band4\_20MHz\_64QAM\_20050\_100RB#0

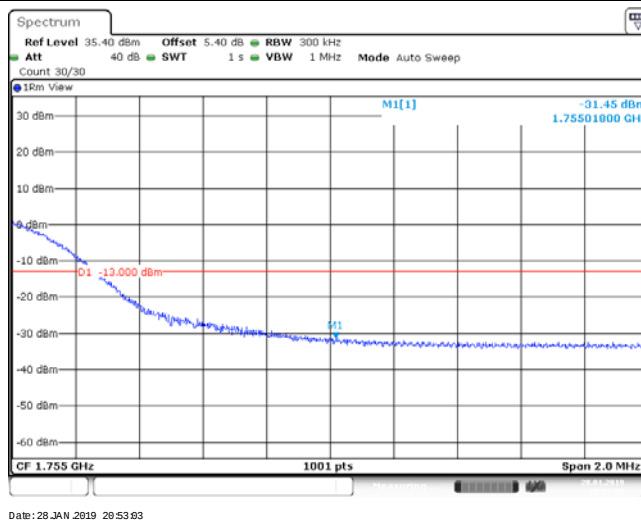


Band4\_20MHz\_64QAM\_20300\_1RB#99



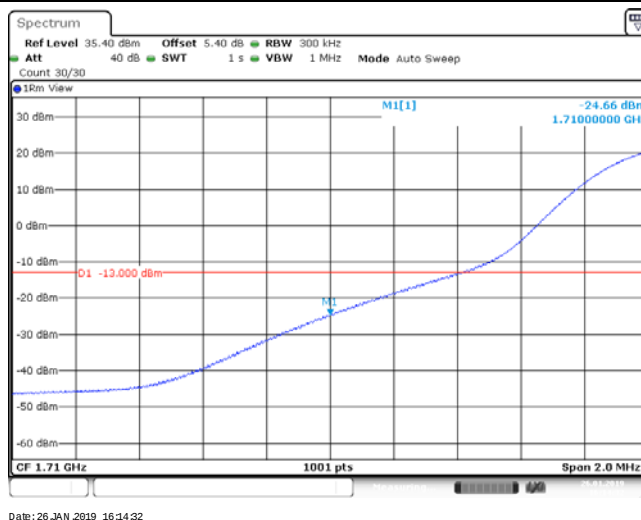


Band4\_20MHz\_64QAM\_20300\_100RB#0

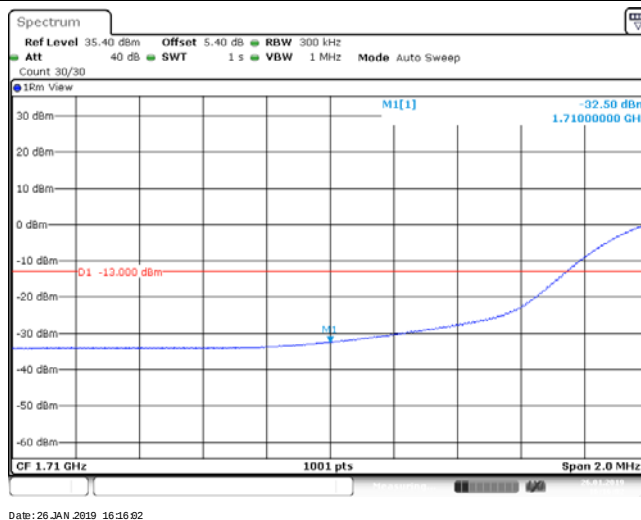


Band4\_20MHz\_16QAM\_20050\_1RB#0



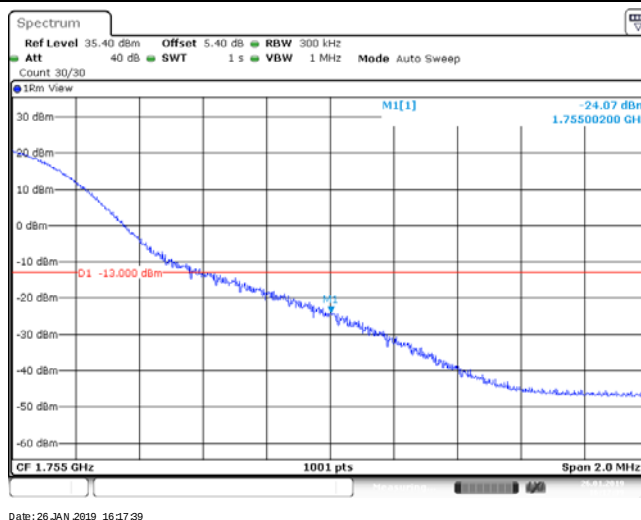


Band4\_20MHz\_16QAM\_20050\_100RB#0

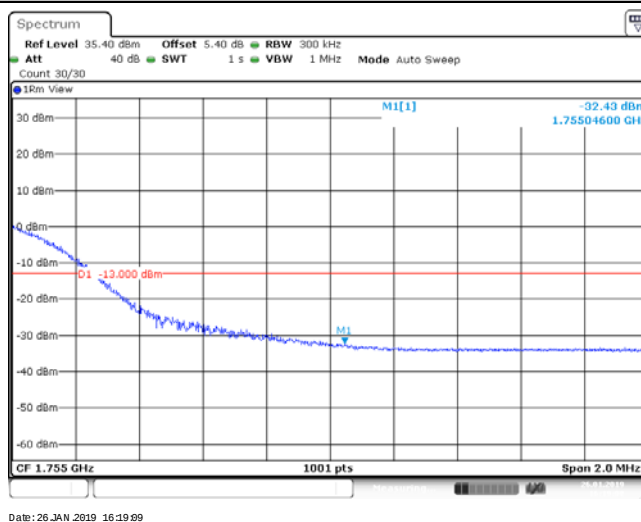


Band4\_20MHz\_16QAM\_20300\_1RB#99





## Band4\_20MHz\_16QAM\_20300\_100RB#0



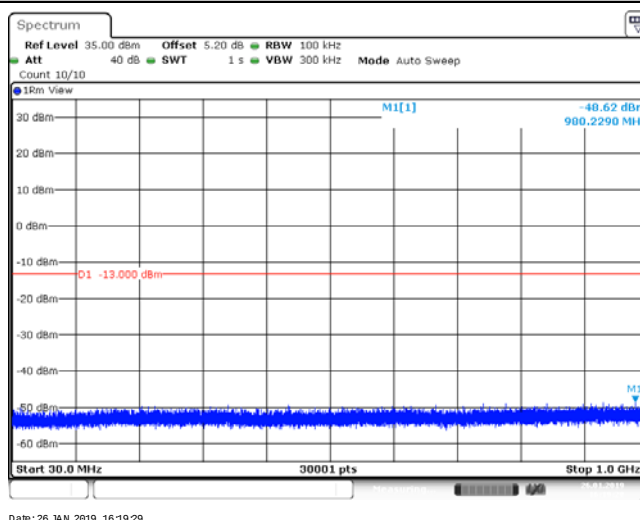
## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

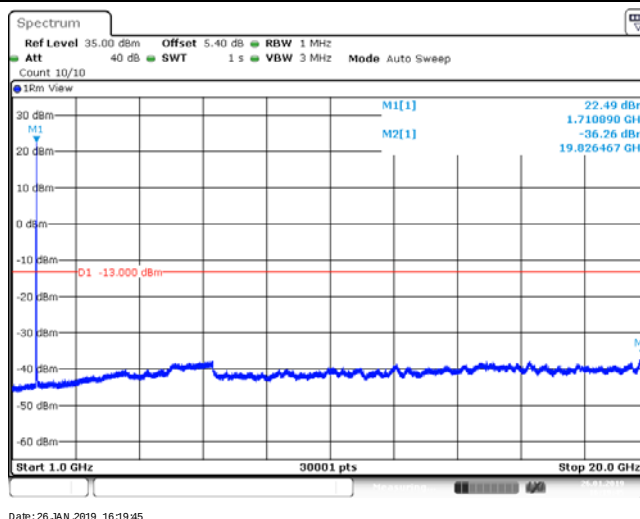
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

Band4\_20MHz\_QPSK\_20050\_1RB#0

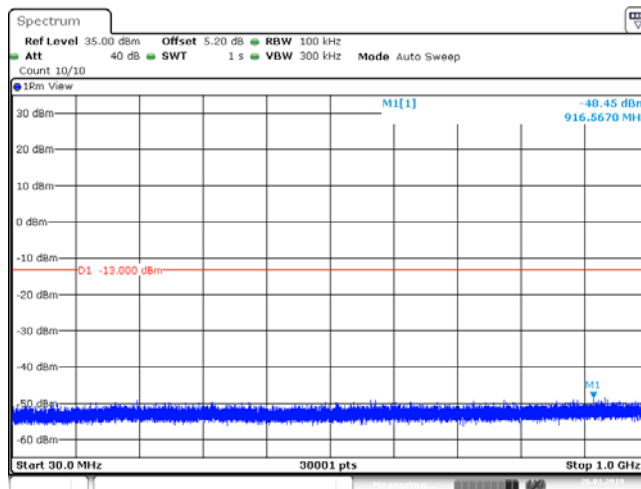


Band4\_20MHz\_QPSK\_20050\_1RB#0



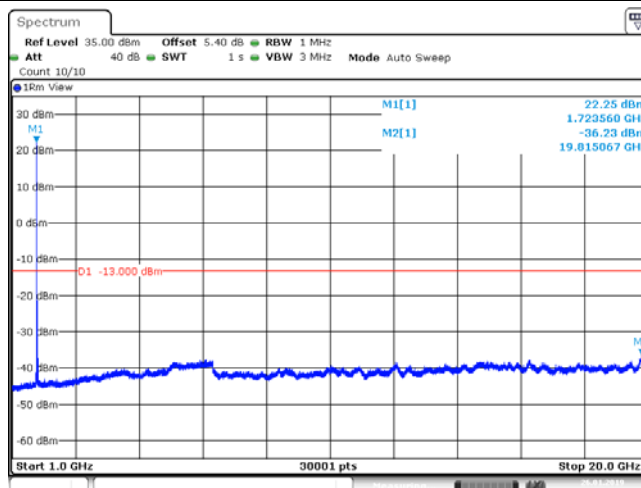
Band4\_20MHz\_QPSK\_20175\_1RB#0





Date: 26 JAN 2019 16:28:37

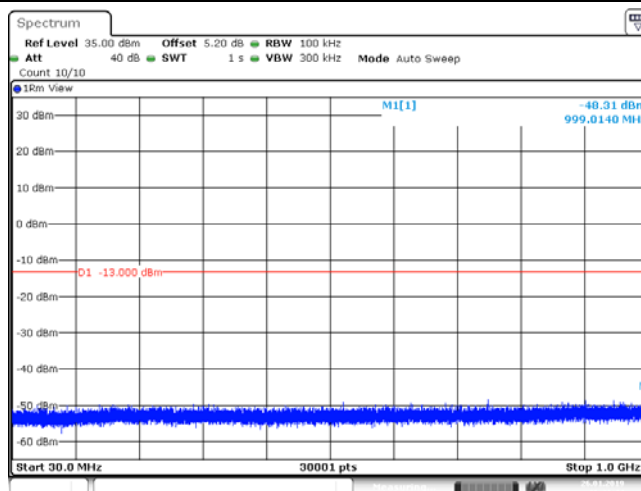
Band4\_20MHz\_QPSK\_20175\_1RB#0



Date: 26 JAN 2019 16:28:53

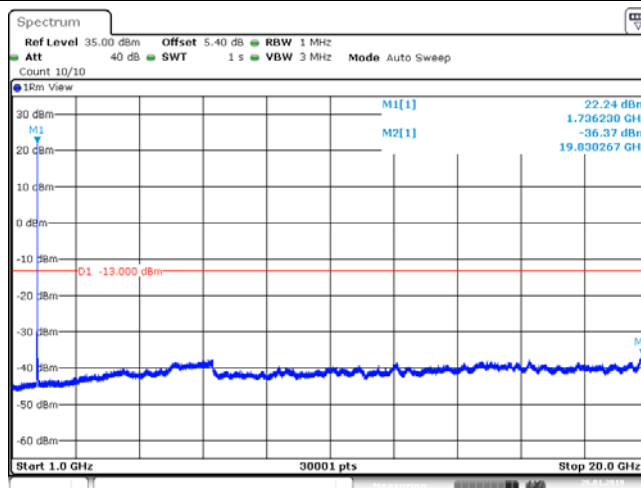
Band4\_20MHz\_QPSK\_20300\_1RB#0





Date: 26 JAN 2019 16:21:45

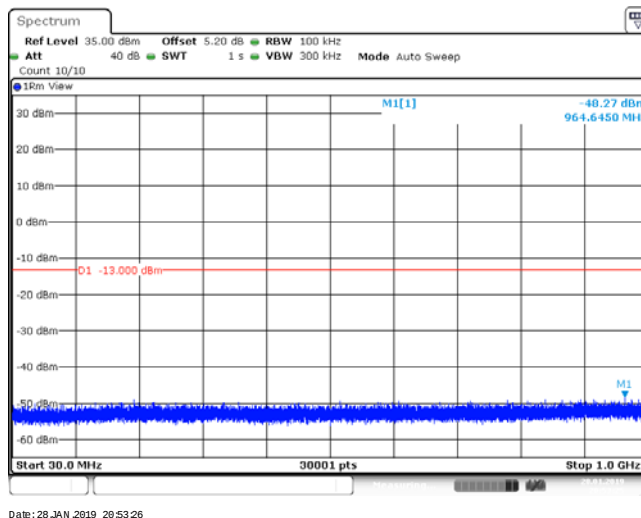
Band4\_20MHz\_QPSK\_20300\_1RB#0



Date: 26 JAN 2019 16:22:01

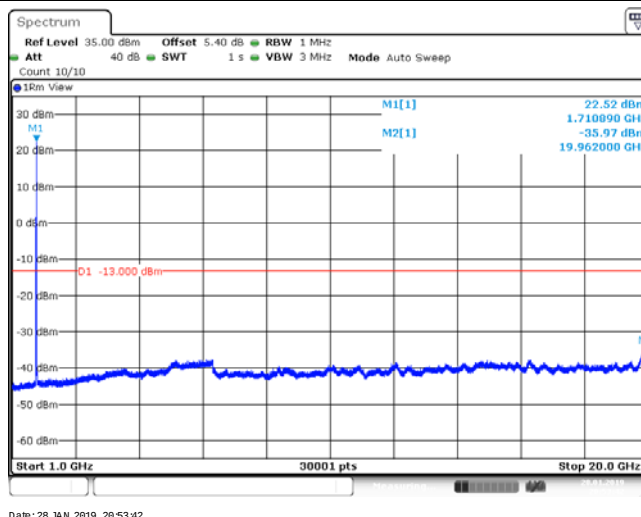
Band4\_20MHz\_64QAM\_20050\_1RB#0





Date: 28 JAN 2019 20:53:26

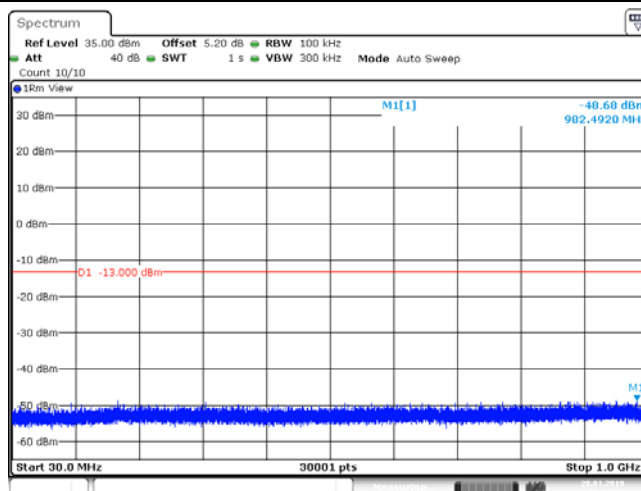
Band4\_20MHz\_64QAM\_20050\_1RB#0



Date: 28 JAN 2019 20:53:42

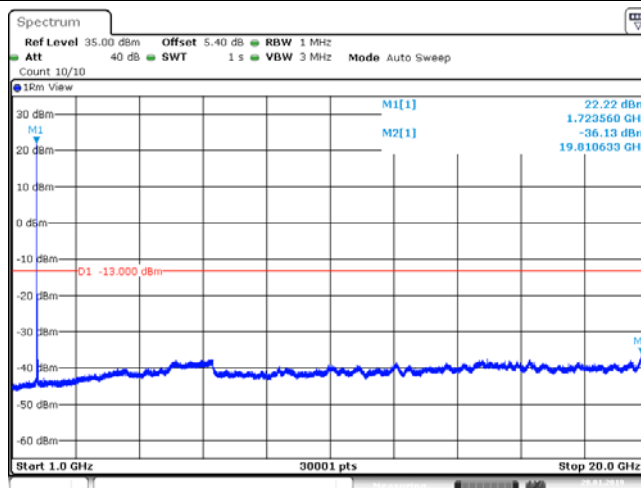
Band4\_20MHz\_64QAM\_20175\_1RB#0





Date: 28 JAN 2019 20:54:02

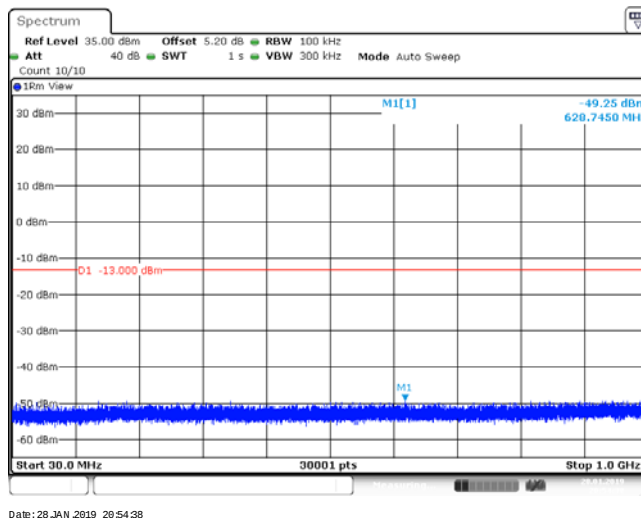
Band4\_20MHz\_64QAM\_20175\_1RB#0



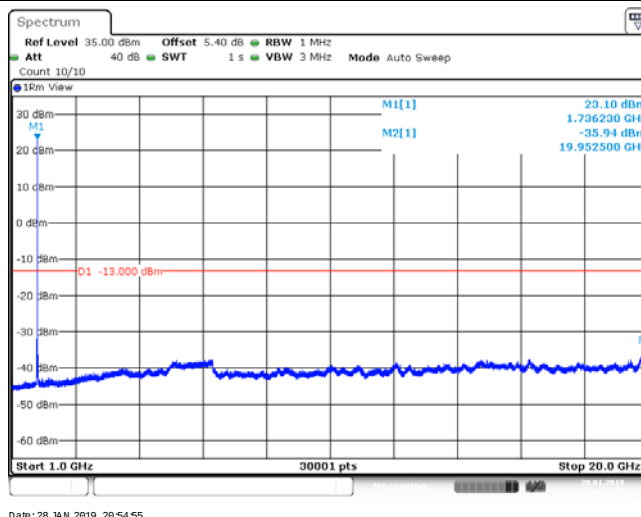
Date: 28 JAN 2019 20:54:19

Band4\_20MHz\_64QAM\_20300\_1RB#0



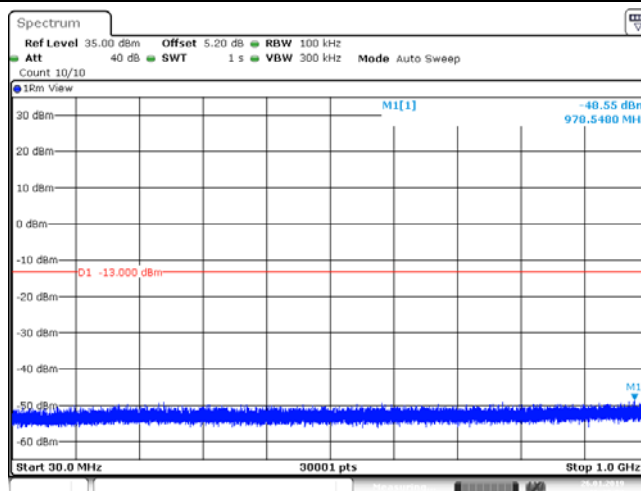


Band4\_20MHz\_64QAM\_20300\_1RB#0



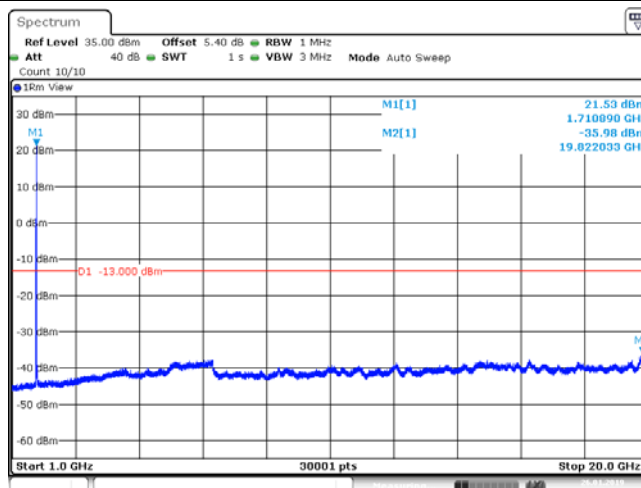
Band4\_20MHz\_16QAM\_20050\_1RB#0





Date: 26 JAN 2019 16:29:02

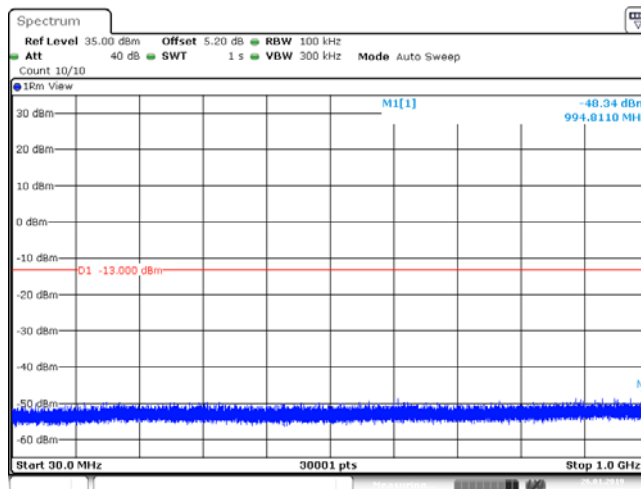
Band4\_20MHz\_16QAM\_20050\_1RB#0



Date: 26 JAN 2019 16:29:18

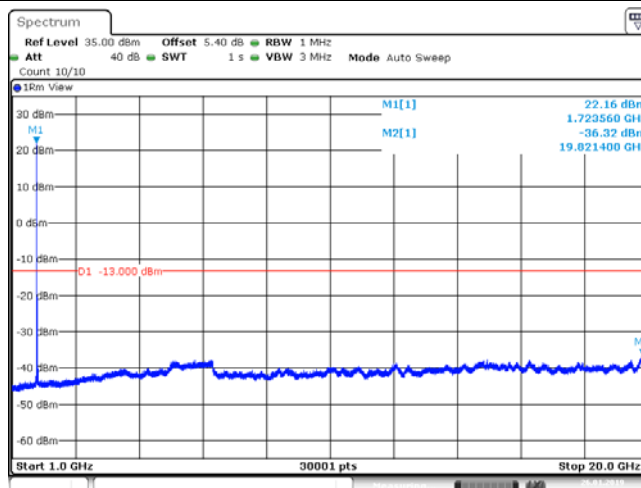
Band4\_20MHz\_16QAM\_20175\_1RB#0





Date: 26 JAN 2019 16:21:10

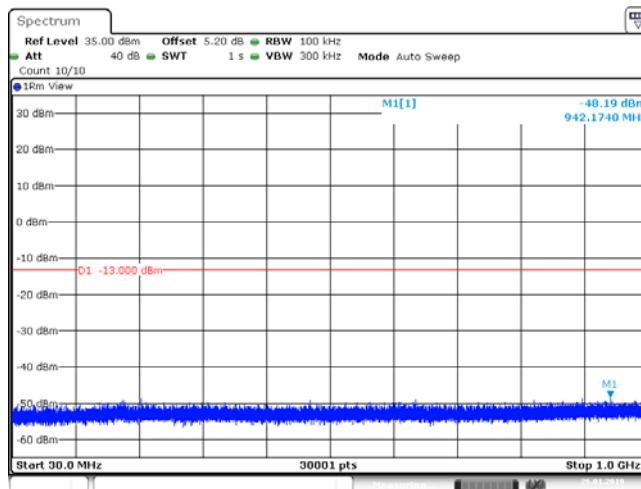
Band4\_20MHz\_16QAM\_20175\_1RB#0



Date: 26 JAN 2019 16:21:26

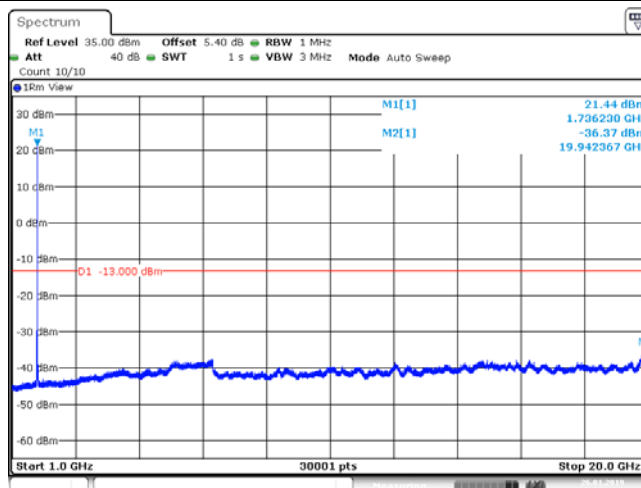
Band4\_20MHz\_16QAM\_20300\_1RB#0





Date: 26 JAN 2019 16:22:18

## Band4\_20MHz\_16QAM\_20300\_1RB#0



Date: 26 JAN 2019 16:22:34



## 7. Field Strength of Spurious Radiation

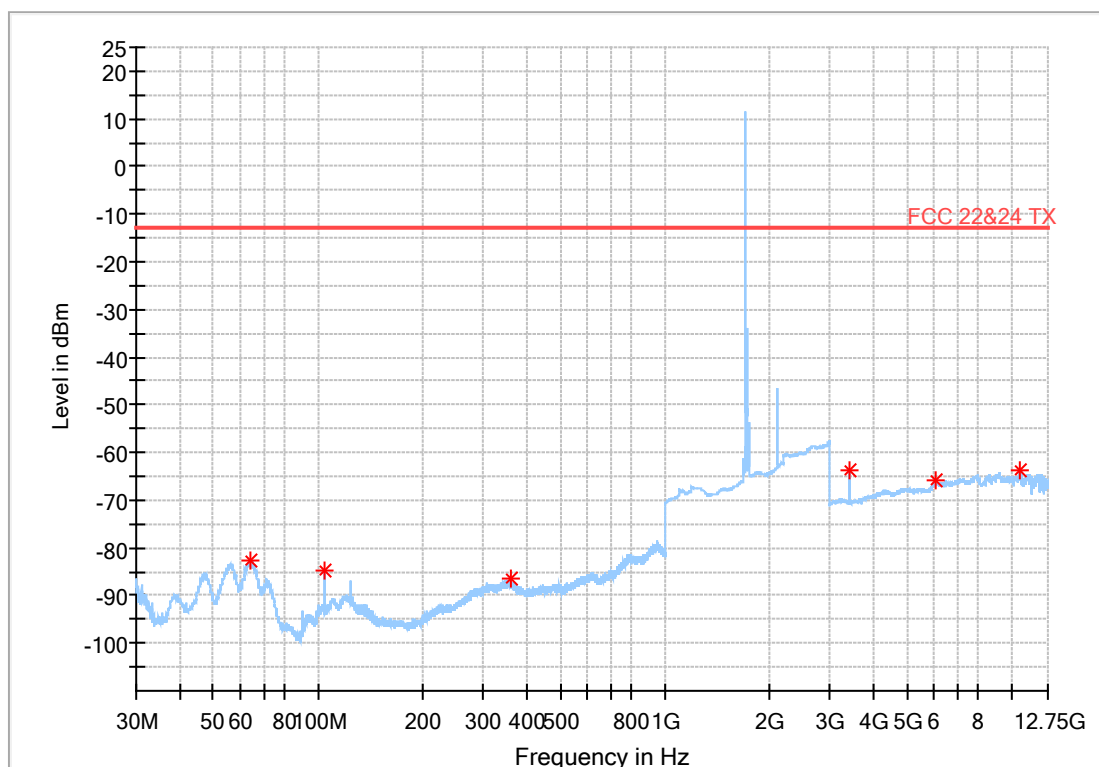
### 7.1. Main Antenna

#### 7.1.1. Test BAND = LTE BAND 4

##### 7.1.1.1. Test Mode =LTE/TM1

##### 7.1.1.1.1. LCH-Vertical

Full Spectrum



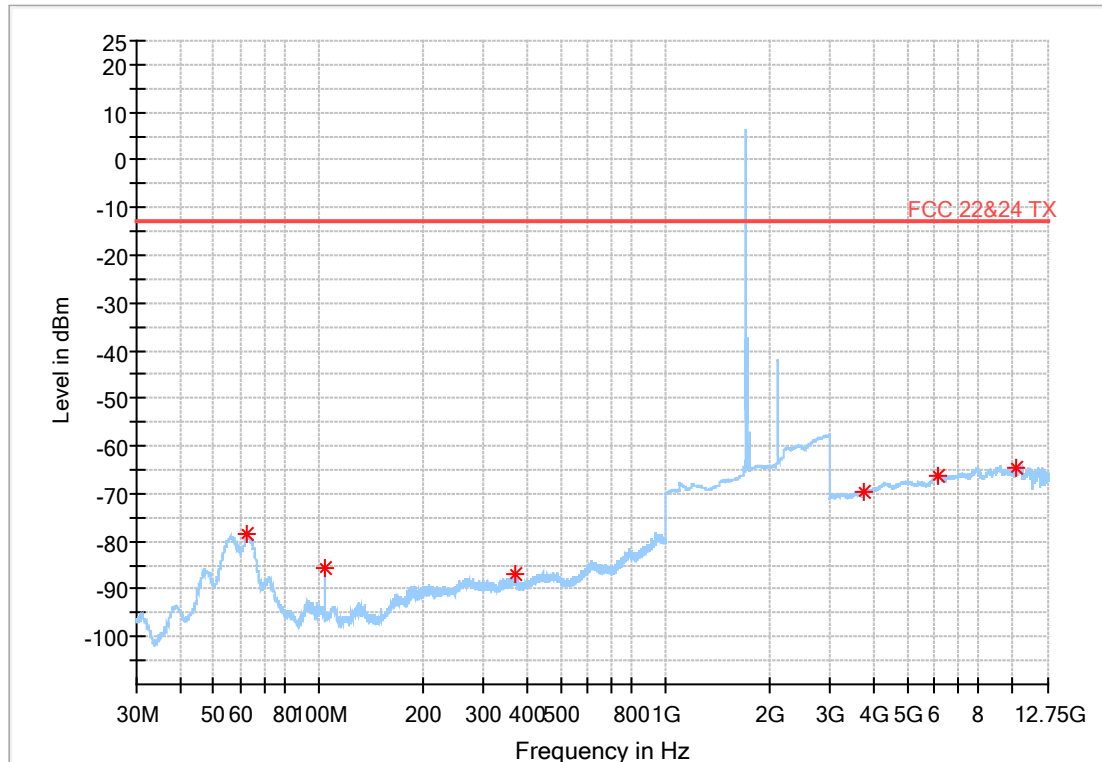
### Critical\_Freqs

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 64.250000       | -82.68        | -13.00      | 69.68       | ---             | ---             | 200.0       | V   | 0.0           | -100.0     |
| 104.300000      | -84.62        | -13.00      | 71.62       | ---             | ---             | 200.0       | V   | 100.0         | -106.8     |
| 361.700000      | -86.42        | -13.00      | 73.42       | ---             | ---             | 200.0       | V   | 170.0         | -101.4     |
| 3422.175000     | -63.56        | -13.00      | 50.56       | ---             | ---             | 200.0       | V   | 213.0         | -105.5     |
| 6053.050000     | -65.96        | -13.00      | 52.96       | ---             | ---             | 200.0       | V   | 0.0           | -99.8      |
| 10647.900000    | -63.92        | -13.00      | 50.92       | ---             | ---             | 200.0       | V   | 0.0           | -96.2      |



### 7.1.1.1.2. LCH-Horizontal

#### Full Spectrum



### Critical\_Freqs

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 62.750000       | -78.28        | -13.00      | 65.28       | ---             | ---             | 200.0       | H   | 310.0         | -95.4      |
| 104.300000      | -85.42        | -13.00      | 72.42       | ---             | ---             | 200.0       | H   | 77.0          | -109.6     |
| 371.150000      | -87.00        | -13.00      | 74.00       | ---             | ---             | 200.0       | H   | 334.0         | -103.5     |
| 3748.800000     | -69.53        | -13.00      | 56.53       | ---             | ---             | 200.0       | H   | 0.0           | -104.5     |
| 6172.325000     | -66.34        | -13.00      | 53.34       | ---             | ---             | 200.0       | H   | 0.0           | -100.0     |
| 10266.350000    | -64.59        | -13.00      | 51.59       | ---             | ---             | 200.0       | H   | 1.0           | -96.6      |



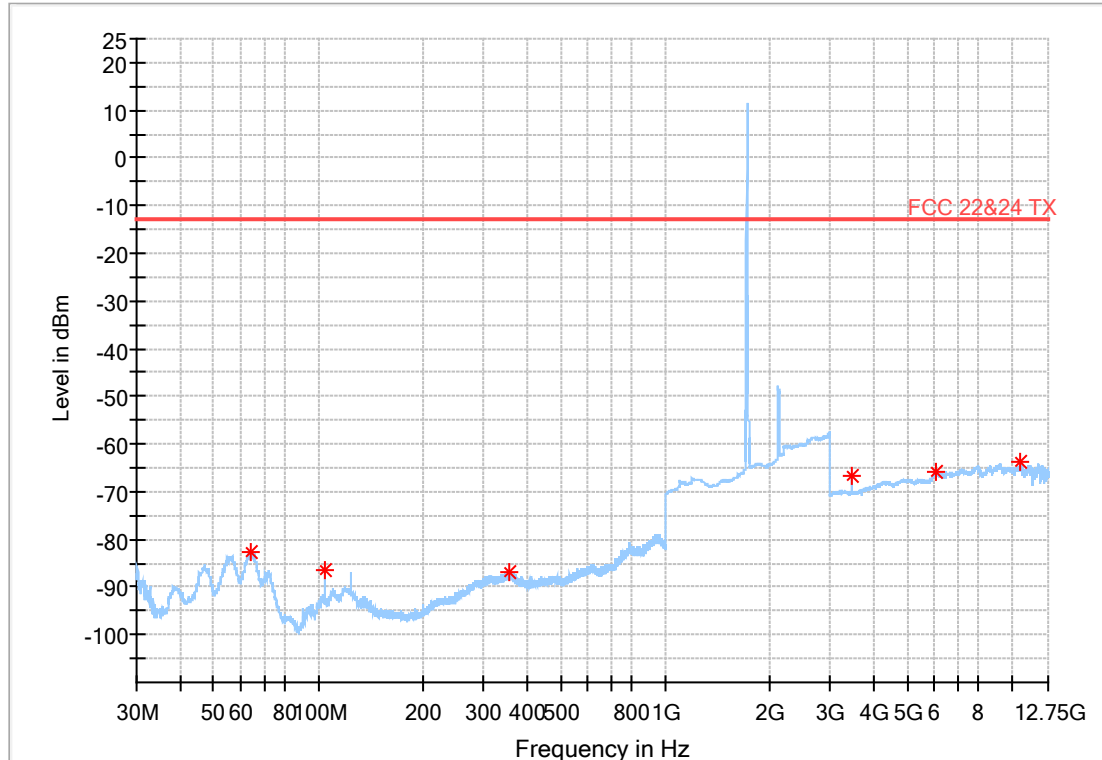
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### 7.1.1.1.3. MCH-Vertical

#### Full Spectrum



### Critical\_Freqs

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 63.700000       | -82.60        | -13.00      | 69.60       | ---             | ---             | 200.0       | V   | 286.0         | -100.1     |
| 104.300000      | -86.38        | -13.00      | 73.38       | ---             | ---             | 200.0       | V   | 52.0          | -106.8     |
| 357.700000      | -86.92        | -13.00      | 73.92       | ---             | ---             | 200.0       | V   | 169.0         | -101.3     |
| 3446.875000     | -66.85        | -13.00      | 53.85       | ---             | ---             | 200.0       | V   | 211.0         | -105.4     |
| 6039.075000     | -65.95        | -13.00      | 52.95       | ---             | ---             | 200.0       | V   | 0.0           | -99.9      |
| 10631.975000    | -63.85        | -13.00      | 50.85       | ---             | ---             | 200.0       | V   | 0.0           | -96.3      |



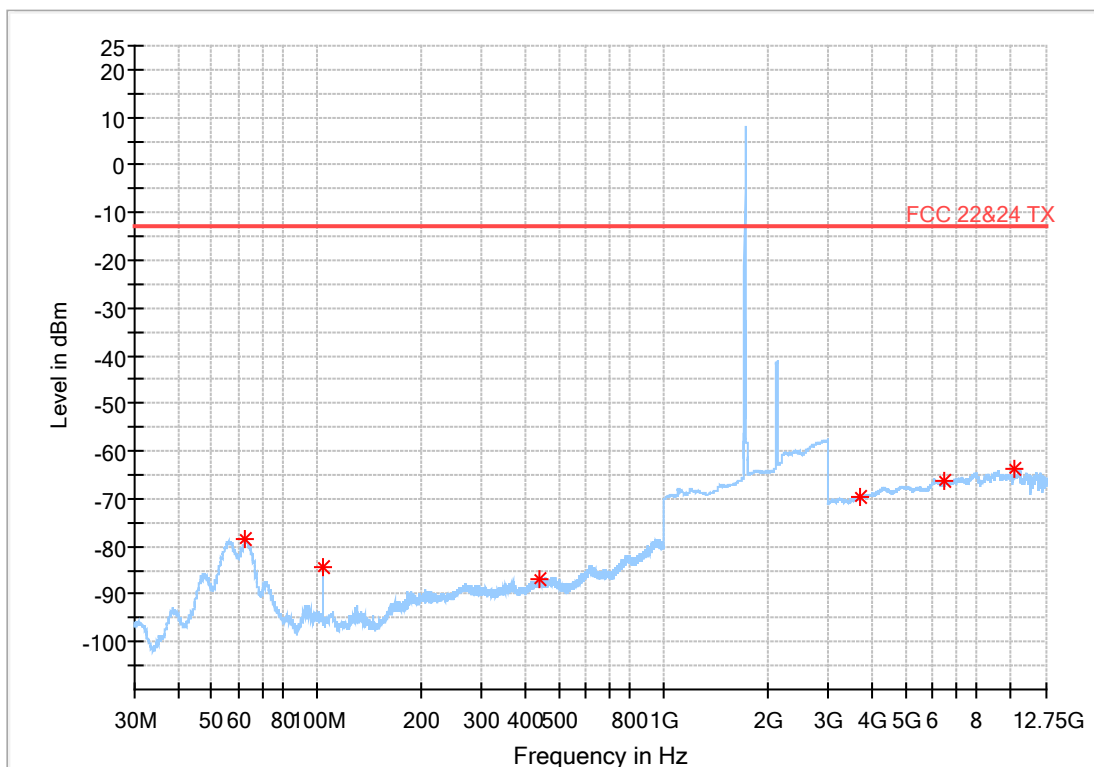
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Shenzhen Branch

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## 7.1.1.1.4. MCH-Horizontal

## Full Spectrum



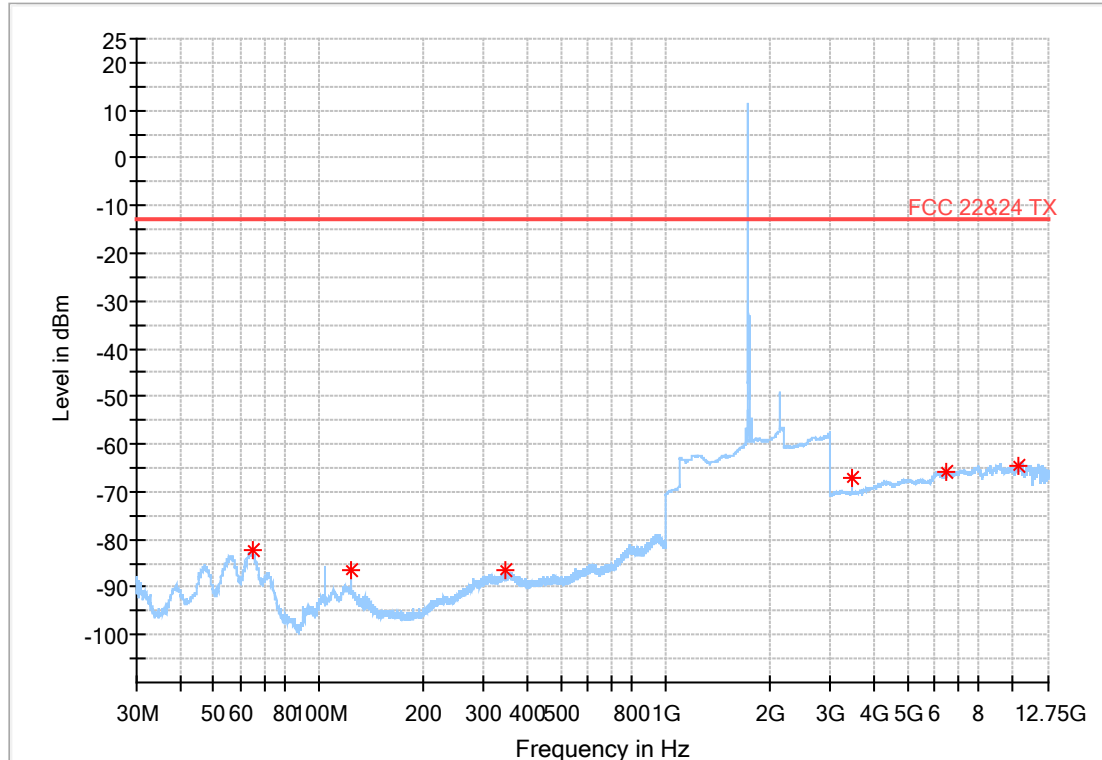
## Critical\_Freqs

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 62.600000       | -78.28        | -13.00      | 65.28       | ---             | ---             | 200.0       | H   | 31.0          | -95.2      |
| 104.300000      | -84.33        | -13.00      | 71.33       | ---             | ---             | 200.0       | H   | 287.0         | -109.6     |
| 443.400000      | -86.70        | -13.00      | 73.70       | ---             | ---             | 200.0       | H   | 287.0         | -100.8     |
| 3716.300000     | -69.63        | -13.00      | 56.63       | ---             | ---             | 200.0       | H   | 0.0           | -104.7     |
| 6499.275000     | -66.09        | -13.00      | 53.09       | ---             | ---             | 200.0       | H   | 211.0         | -99.3      |
| 10341.750000    | -63.88        | -13.00      | 50.88       | ---             | ---             | 200.0       | H   | 1.0           | -96.5      |



### 7.1.1.1.5. HCH-Vertical

#### Full Spectrum



### Critical\_Freqs

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 64.650000       | -82.33        | -13.00      | 69.33       | ---             | ---             | 200.0       | V   | 120.0         | -99.9      |
| 125.000000      | -86.55        | -13.00      | 73.55       | ---             | ---             | 200.0       | V   | 358.0         | -103.8     |
| 348.600000      | -86.64        | -13.00      | 73.64       | ---             | ---             | 200.0       | V   | 0.0           | -101.6     |
| 3471.900000     | -67.22        | -13.00      | 54.22       | ---             | ---             | 200.0       | V   | 213.0         | -105.4     |
| 6486.925000     | -66.02        | -13.00      | 53.02       | ---             | ---             | 200.0       | V   | 0.0           | -99.1      |
| 10416.500000    | -64.63        | -13.00      | 51.63       | ---             | ---             | 200.0       | V   | 1.0           | -96.4      |



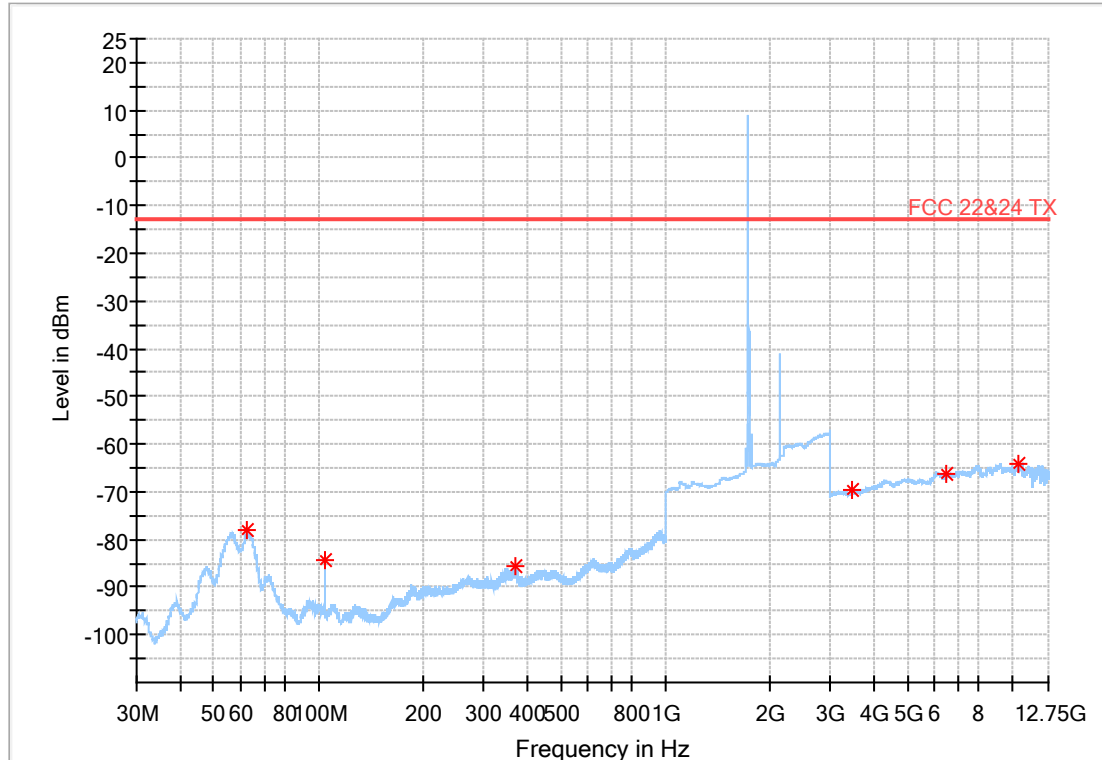
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7.1.1.1.6. HCH-Horizontal

Full Spectrum



Critical\_Freqs

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 62.300000       | -78.24        | -13.00      | 65.24       | ---             | ---             | 200.0       | H   | 32.0          | -95.0      |
| 104.300000      | -84.27        | -13.00      | 71.27       | ---             | ---             | 200.0       | H   | 288.0         | -109.6     |
| 372.550000      | -85.52        | -13.00      | 72.52       | ---             | ---             | 200.0       | H   | 0.0           | -103.5     |
| 3472.225000     | -69.70        | -13.00      | 56.70       | ---             | ---             | 200.0       | H   | 0.0           | -105.5     |
| 6494.400000     | -66.07        | -13.00      | 53.07       | ---             | ---             | 200.0       | H   | 0.0           | -99.3      |
| 10416.500000    | -64.06        | -13.00      | 51.06       | ---             | ---             | 200.0       | H   | 1.0           | -96.4      |



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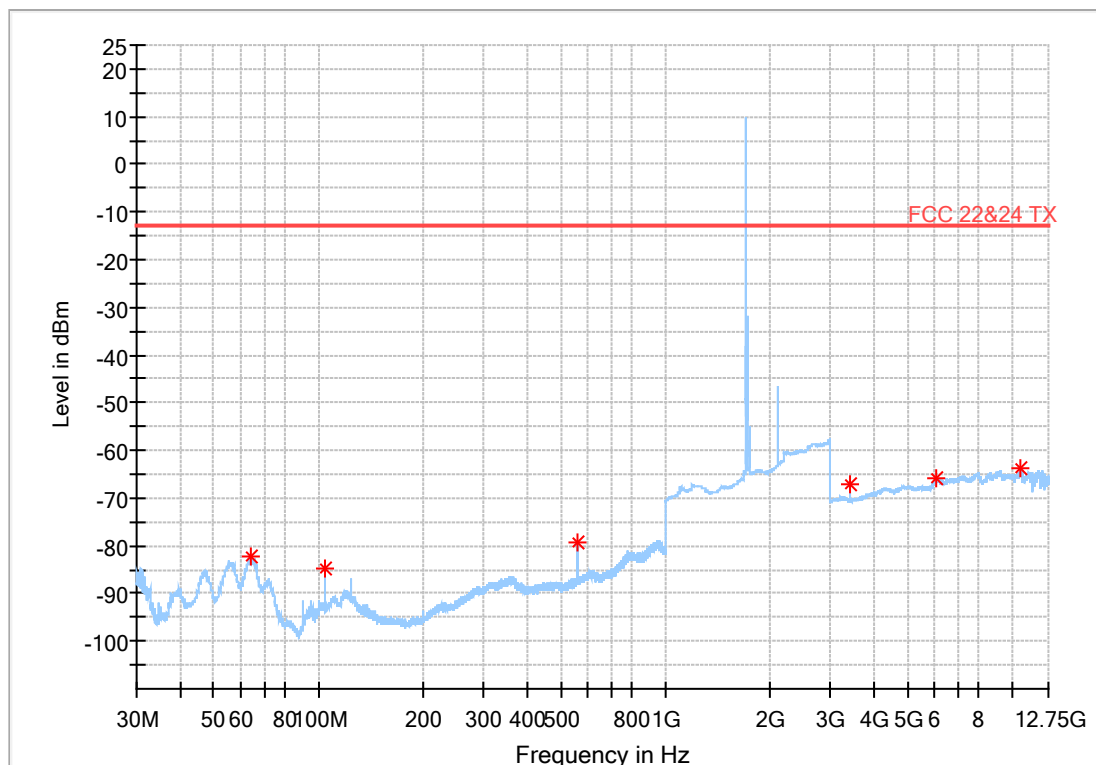
## 7.2. Secondary Antenna

### 7.2.1. Test BAND = LTE BAND 4

#### 7.2.1.1. Test Mode =LTE/TM1

##### 7.2.1.1.1. LCH-Vertical

Full Spectrum



## Critical\_Freqs

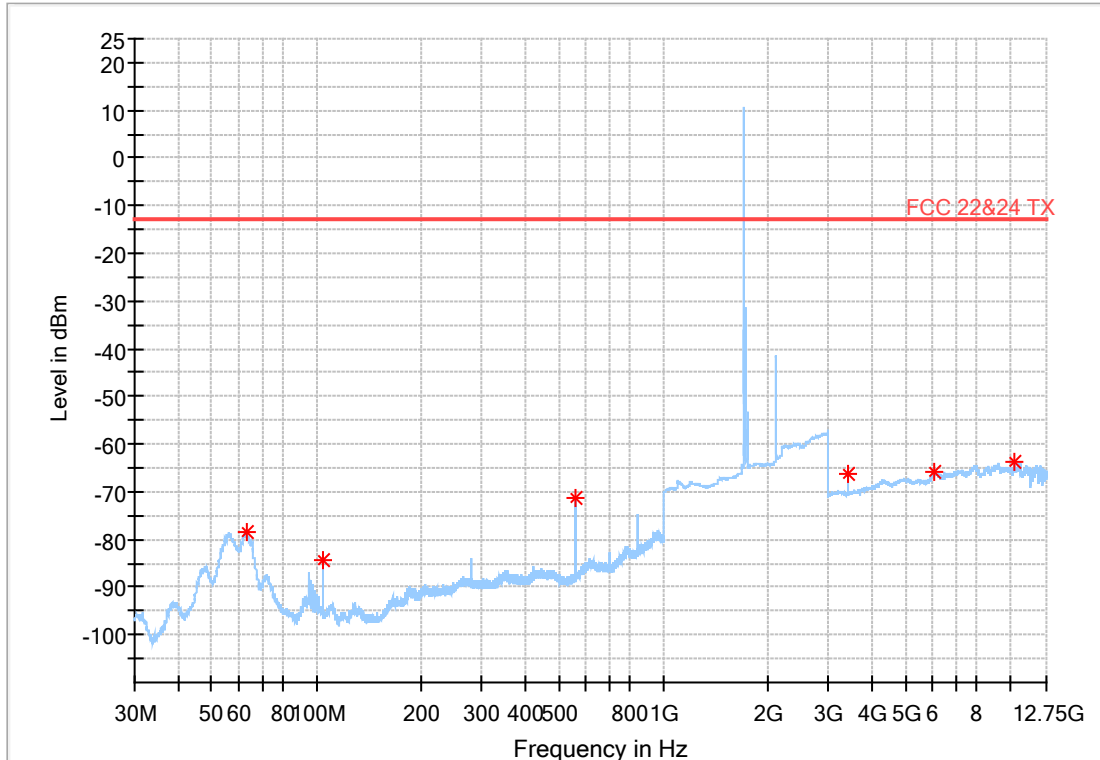
| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 64.300000       | -82.20        | -13.00      | 69.20       | ---             | ---             | 200.0       | V   | 359.0         | -99.9      |
| 104.250000      | -84.87        | -13.00      | 71.87       | ---             | ---             | 200.0       | V   | 336.0         | -106.8     |
| 561.604167      | -79.20        | -13.00      | 66.20       | ---             | ---             | 200.0       | V   | 116.0         | -100.3     |
| 3422.175000     | -67.09        | -13.00      | 54.09       | ---             | ---             | 200.0       | V   | 213.0         | -105.5     |
| 6059.225000     | -65.85        | -13.00      | 52.85       | ---             | ---             | 200.0       | V   | 0.0           | -99.7      |
| 10617.025000    | -63.87        | -13.00      | 50.87       | ---             | ---             | 200.0       | V   | 0.0           | -96.3      |





#### 7.2.1.1.2. LCH-Horizontal

##### Full Spectrum



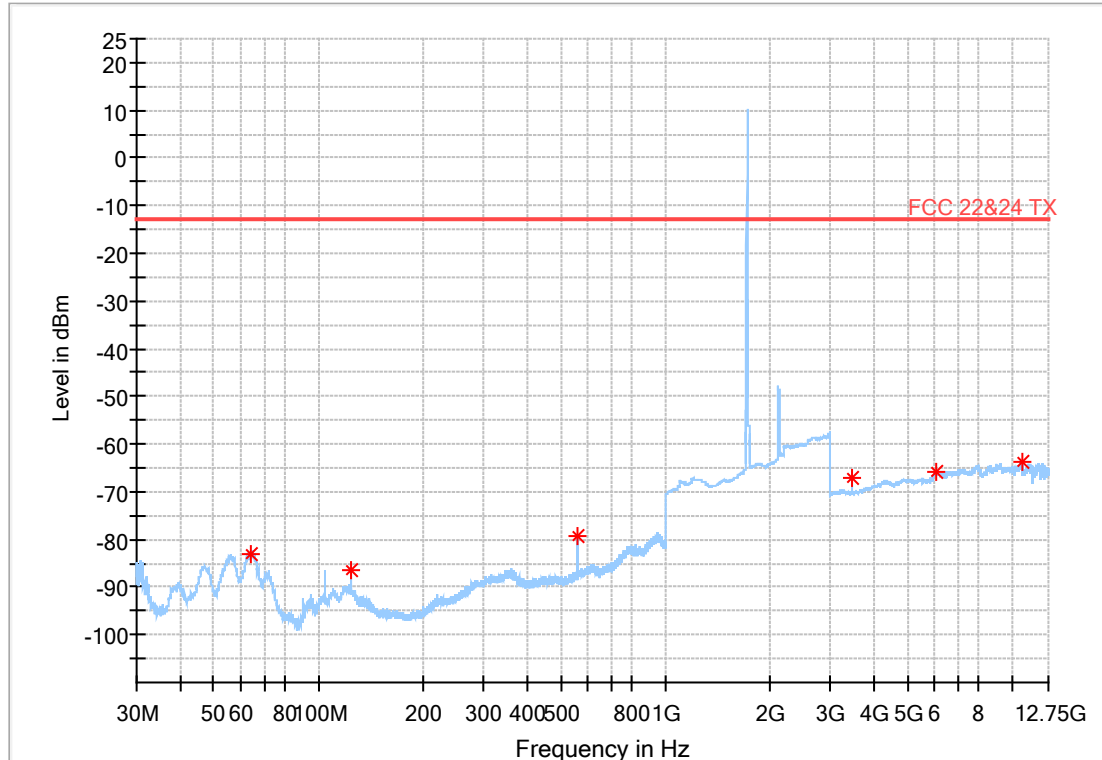
#### Critical\_Freqs

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 63.300000       | -78.30        | -13.00      | 65.30       | ---             | ---             | 200.0       | H   | 76.0          | -96.0      |
| 104.300000      | -84.22        | -13.00      | 71.22       | ---             | ---             | 200.0       | H   | 263.0         | -109.6     |
| 561.604167      | -71.39        | -13.00      | 58.39       | ---             | ---             | 200.0       | H   | 337.0         | -100.8     |
| 3422.175000     | -66.47        | -13.00      | 53.47       | ---             | ---             | 200.0       | H   | 213.0         | -105.7     |
| 6049.150000     | -65.87        | -13.00      | 52.87       | ---             | ---             | 200.0       | H   | 213.0         | -99.9      |
| 10266.675000    | -63.85        | -13.00      | 50.85       | ---             | ---             | 200.0       | H   | 2.0           | -96.6      |



### 7.2.1.1.3. MCH-Vertical

#### Full Spectrum



### Critical\_Freqs

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 63.750000       | -82.89        | -13.00      | 69.89       | ---             | ---             | 200.0       | V   | 148.0         | -100.1     |
| 125.000000      | -86.60        | -13.00      | 73.60       | ---             | ---             | 200.0       | V   | 77.0          | -103.8     |
| 561.558333      | -79.48        | -13.00      | 66.48       | ---             | ---             | 200.0       | V   | 114.0         | -100.3     |
| 3446.875000     | -66.95        | -13.00      | 53.95       | ---             | ---             | 200.0       | V   | 212.0         | -105.4     |
| 6042.325000     | -65.79        | -13.00      | 52.79       | ---             | ---             | 200.0       | V   | 2.0           | -99.9      |
| 10660.900000    | -63.88        | -13.00      | 50.88       | ---             | ---             | 200.0       | V   | 0.0           | -96.2      |

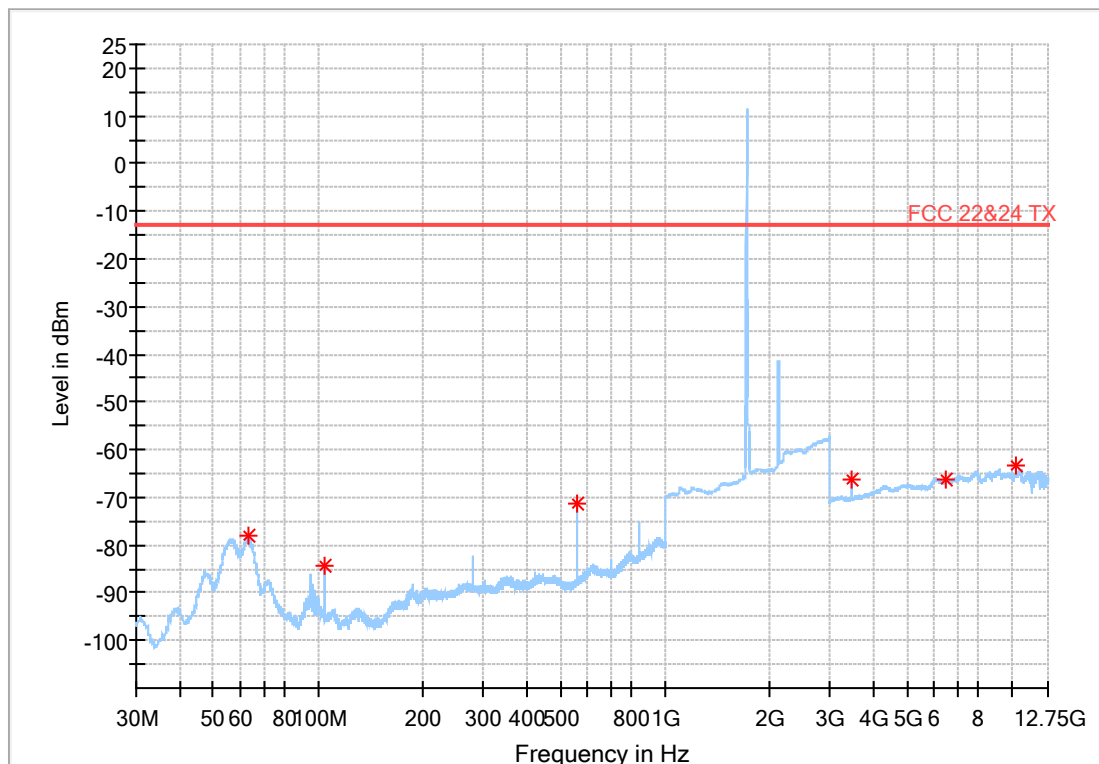


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## 7.2.1.1.4. MCH-Horizontal

Full Spectrum



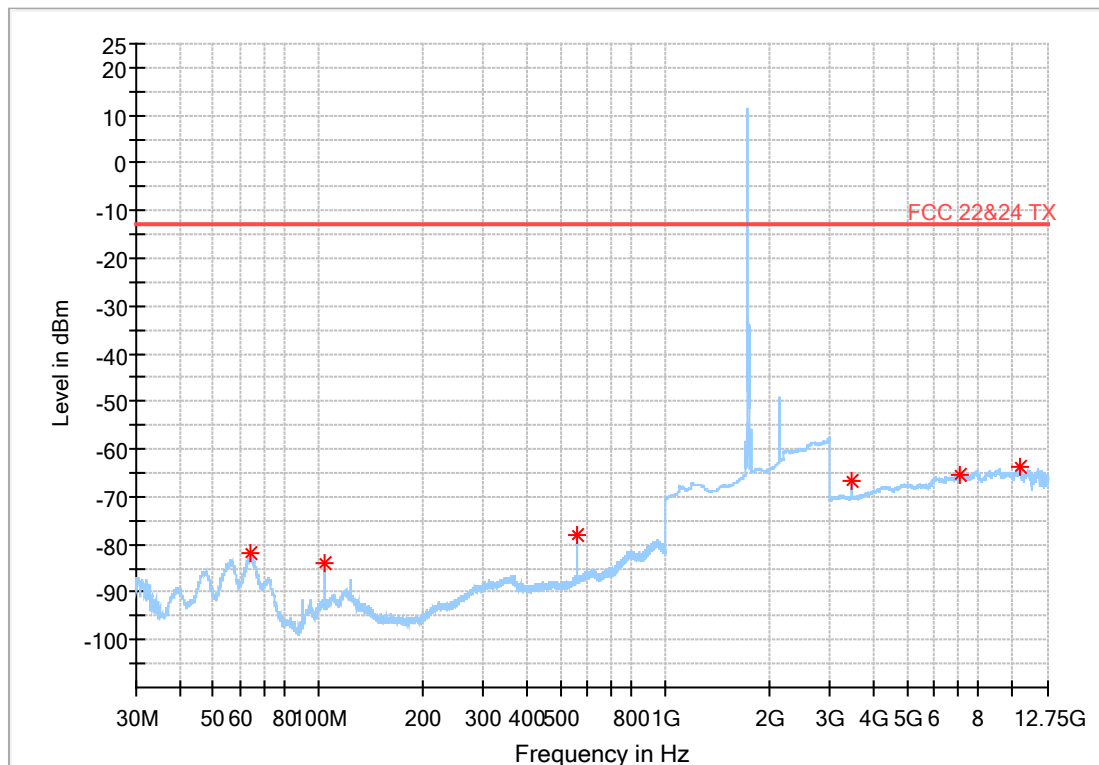
## Critical\_Freqs

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 63.000000       | -78.06        | -13.00      | 65.06       | ---             | ---             | 200.0       | H   | 334.0         | -95.7      |
| 104.300000      | -84.42        | -13.00      | 71.42       | ---             | ---             | 200.0       | H   | 100.0         | -109.6     |
| 561.604167      | -71.41        | -13.00      | 58.41       | ---             | ---             | 200.0       | H   | 338.0         | -100.8     |
| 3446.875000     | -66.19        | -13.00      | 53.19       | ---             | ---             | 200.0       | H   | 212.0         | -105.6     |
| 6483.025000     | -66.06        | -13.00      | 53.06       | ---             | ---             | 200.0       | H   | 212.0         | -99.4      |
| 10341.425000    | -63.41        | -13.00      | 50.41       | ---             | ---             | 200.0       | H   | 2.0           | -96.5      |



## 7.2.1.1.5. HCH-Vertical

## Full Spectrum



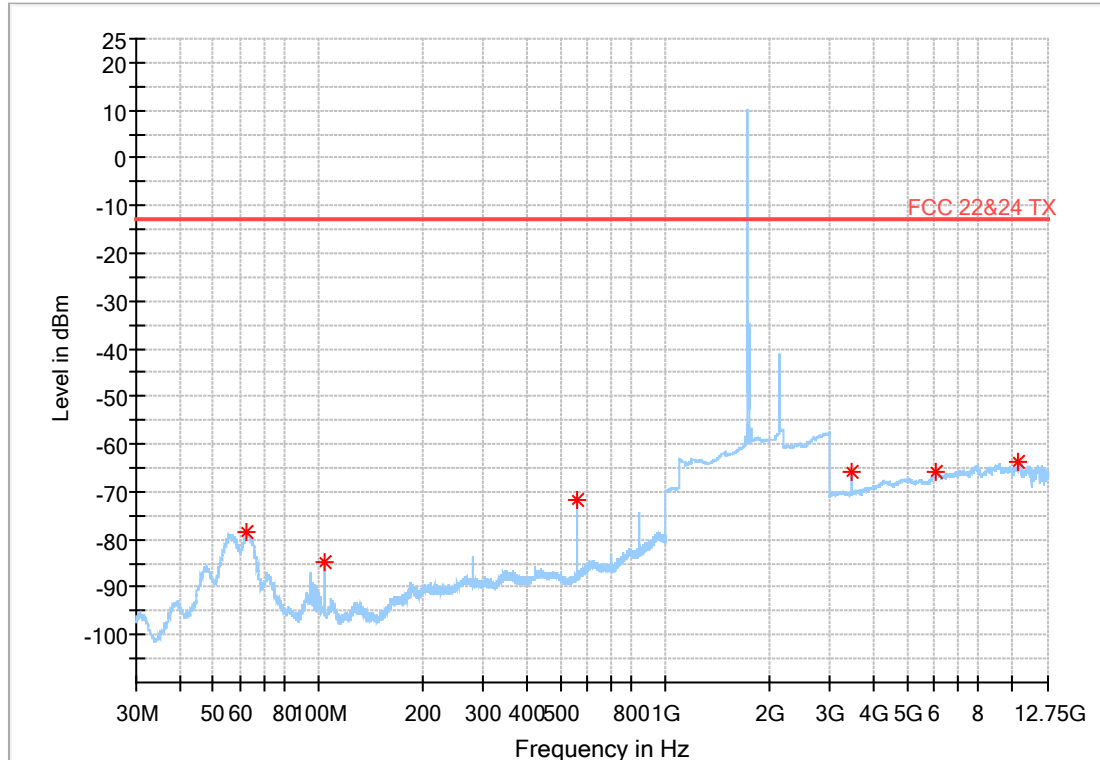
## Critical\_Freqs

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 64.400000       | -81.70        | -13.00      | 68.70       | ---             | ---             | 200.0       | V   | 147.0         | -99.9      |
| 104.250000      | -83.81        | -13.00      | 70.81       | ---             | ---             | 200.0       | V   | 194.0         | -106.8     |
| 561.604167      | -78.22        | -13.00      | 65.22       | ---             | ---             | 200.0       | V   | 115.0         | -100.3     |
| 3472.225000     | -66.69        | -13.00      | 53.69       | ---             | ---             | 200.0       | V   | 212.0         | -105.4     |
| 7062.825000     | -65.56        | -13.00      | 52.56       | ---             | ---             | 200.0       | V   | 1.0           | -98.9      |
| 10628.725000    | -63.91        | -13.00      | 50.91       | ---             | ---             | 200.0       | V   | 1.0           | -96.3      |



### 7.2.1.1.6. HCH-Horizontal

#### Full Spectrum



### Critical\_Freqs

| Frequency (MHz) | Average (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-----|---------------|------------|
| 62.050000       | -78.60        | -13.00      | 65.60       | ---             | ---             | 200.0       | H   | 0.0           | -95.0      |
| 104.300000      | -84.72        | -13.00      | 71.72       | ---             | ---             | 200.0       | H   | 147.0         | -109.6     |
| 561.604167      | -71.60        | -13.00      | 58.60       | ---             | ---             | 200.0       | H   | 338.0         | -100.8     |
| 3471.900000     | -65.99        | -13.00      | 52.99       | ---             | ---             | 200.0       | H   | 213.0         | -105.5     |
| 6056.950000     | -65.95        | -13.00      | 52.95       | ---             | ---             | 200.0       | H   | 2.0           | -99.8      |
| 10416.500000    | -63.81        | -13.00      | 50.81       | ---             | ---             | 200.0       | H   | 2.0           | -96.4      |

#### Remark:

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4   | 20MHz     | QPSK       | 20050   | 100RB#0      | VL            | NT               | -0.20          | -0.000116       | ±2.5        | PASS    |
| Band4   | 20MHz     | QPSK       | 20050   | 100RB#0      | VN            | NT               | -1.20          | -0.000698       | ±2.5        | PASS    |
| Band4   | 20MHz     | QPSK       | 20050   | 100RB#0      | VH            | NT               | -0.20          | -0.000116       | ±2.5        | PASS    |
| Band4   | 20MHz     | QPSK       | 20175   | 100RB#0      | VL            | NT               | 1.90           | 0.001097        | ±2.5        | PASS    |
| Band4   | 20MHz     | QPSK       | 20175   | 100RB#0      | VN            | NT               | 1.80           | 0.001039        | ±2.5        | PASS    |
| Band4   | 20MHz     | QPSK       | 20175   | 100RB#0      | VH            | NT               | 2.00           | 0.001154        | ±2.5        | PASS    |
| Band4   | 20MHz     | QPSK       | 20300   | 100RB#0      | VL            | NT               | 2.00           | 0.001146        | ±2.5        | PASS    |
| Band4   | 20MHz     | QPSK       | 20300   | 100RB#0      | VN            | NT               | 2.10           | 0.001203        | ±2.5        | PASS    |
| Band4   | 20MHz     | QPSK       | 20300   | 100RB#0      | VH            | NT               | 2.10           | 0.001203        | ±2.5        | PASS    |
| Band4   | 20MHz     | 64QAM      | 20050   | 100RB#0      | VL            | NT               | 0.50           | 0.000291        | ±2.5        | PASS    |
| Band4   | 20MHz     | 64QAM      | 20050   | 100RB#0      | VN            | NT               | -0.10          | -0.000058       | ±2.5        | PASS    |
| Band4   | 20MHz     | 64QAM      | 20050   | 100RB#0      | VH            | NT               | 0.20           | 0.000116        | ±2.5        | PASS    |
| Band4   | 20MHz     | 64QAM      | 20175   | 100RB#0      | VL            | NT               | 2.50           | 0.001443        | ±2.5        | PASS    |
| Band4   | 20MHz     | 64QAM      | 20175   | 100RB#0      | VN            | NT               | 2.50           | 0.001443        | ±2.5        | PASS    |
| Band4   | 20MHz     | 64QAM      | 20175   | 100RB#0      | VH            | NT               | 2.50           | 0.001443        | ±2.5        | PASS    |
| Band4   | 20MHz     | 64QAM      | 20300   | 100RB#0      | VL            | NT               | 2.50           | 0.001433        | ±2.5        | PASS    |
| Band4   | 20MHz     | 64QAM      | 20300   | 100RB#0      | VN            | NT               | 2.00           | 0.001146        | ±2.5        | PASS    |
| Band4   | 20MHz     | 64QAM      | 20300   | 100RB#0      | VH            | NT               | 2.50           | 0.001433        | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20050   | 100RB#0      | VL            | NT               | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20050   | 100RB#0      | VN            | NT               | 0.30           | 0.000174        | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20050   | 100RB#0      | VH            | NT               | 0.20           | 0.000116        | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20175   | 100RB#0      | VL            | NT               | 1.80           | 0.001039        | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20175   | 100RB#0      | VN            | NT               | 2.10           | 0.001212        | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20175   | 100RB#0      | VH            | NT               | 1.90           | 0.001097        | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20300   | 100RB#0      | VL            | NT               | 1.80           | 0.001032        | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20300   | 100RB#0      | VN            | NT               | 2.50           | 0.001433        | ±2.5        | PASS    |
| Band4   | 20MHz     | 16QAM      | 20300   | 100RB#0      | VH            | NT               | 1.80           | 0.001032        | ±2.5        | PASS    |

### 8.2. Frequency Vs Temperature

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4       | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | -30              | 0.10           | 0.000058        | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | -20              | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 0                | -0.30          | -0.000174       | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 10               | -0.10          | -0.000058       | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 20               | 0.10           | 0.000058        | ±2.5        | PASS    |
| Band4       | 20MHz     | QPSK       | 20050   | 100RB#0      | NV            | 30               | -0.10          | -0.000058       | ±2.5        | PASS    |



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|       |       |       |       |         |    |     |       |           |      |      |
|-------|-------|-------|-------|---------|----|-----|-------|-----------|------|------|
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | NV | 40  | -0.30 | -0.000174 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | NV | 50  | 0.00  | 0.000000  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | -30 | 2.40  | 0.001385  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | -20 | 2.00  | 0.001154  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 0   | 2.20  | 0.001270  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 10  | 2.00  | 0.001154  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 20  | 2.40  | 0.001385  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 30  | 2.20  | 0.001270  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 40  | 1.50  | 0.000866  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | NV | 50  | 1.90  | 0.001097  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | -30 | 1.90  | 0.001089  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | -20 | 2.10  | 0.001203  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 0   | 1.70  | 0.000974  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 10  | 2.00  | 0.001146  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 20  | 2.00  | 0.001146  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 30  | 2.30  | 0.001318  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 40  | 2.70  | 0.001547  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | NV | 50  | 2.10  | 0.001203  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | -30 | 0.40  | 0.000233  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | -20 | -0.50 | -0.000291 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 0   | 0.10  | 0.000058  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 10  | 0.50  | 0.000291  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 20  | 0.20  | 0.000116  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 30  | 0.30  | 0.000174  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 40  | 0.20  | 0.000116  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 50  | 0.10  | 0.000058  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | -30 | 2.00  | 0.001154  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | -20 | 2.40  | 0.001385  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 0   | 2.50  | 0.001443  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 10  | 2.40  | 0.001385  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 20  | 2.40  | 0.001385  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 30  | 2.60  | 0.001501  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 40  | 2.50  | 0.001443  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 50  | 2.40  | 0.001385  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | -30 | 2.30  | 0.001318  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | -20 | 2.60  | 0.001490  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 0   | 2.40  | 0.001375  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 10  | 2.30  | 0.001318  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 20  | 2.50  | 0.001433  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 30  | 2.30  | 0.001318  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 40  | 2.20  | 0.001261  | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 50  | 2.30  | 0.001318  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | -30 | 0.10  | 0.000058  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | -20 | -0.40 | -0.000233 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 0   | 0.10  | 0.000058  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 10  | -0.30 | -0.000174 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 20  | 0.00  | 0.000000  | ±2.5 | PASS |



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|       |       |       |       |         |    |     |       |           |      |      |
|-------|-------|-------|-------|---------|----|-----|-------|-----------|------|------|
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 30  | 0.00  | 0.000000  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 40  | -0.30 | -0.000174 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 50  | -0.20 | -0.000116 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | -30 | 1.80  | 0.001039  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | -20 | 1.50  | 0.000866  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 0   | 1.70  | 0.000981  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 10  | 1.80  | 0.001039  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 20  | 2.60  | 0.001501  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 30  | 1.90  | 0.001097  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 40  | 1.70  | 0.000981  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 50  | 2.10  | 0.001212  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | -30 | 2.00  | 0.001146  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | -20 | 1.60  | 0.000917  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 0   | 1.80  | 0.001032  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 10  | 2.00  | 0.001146  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 20  | 1.80  | 0.001032  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 30  | 1.80  | 0.001032  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 40  | 1.90  | 0.001089  | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 50  | 1.70  | 0.000974  | ±2.5 | PASS |

The End



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