

## FCC Test Report

**Application Purpose** : Original grant  
**Applicant Name:** : TECNO MOBILE LIMITED  
**FCC ID** : 2ADYY-W5  
**Equipment Type** : Mobile phone  
**Model Name** : W5  
**Report Number** : FCC16083895A-5  
**Standard(S)** : FCC Part 22H&24E&27 Rules  
**Date Of Receipt** : August 11, 2016  
**Date Of Issue** : September 09, 2016

**Test By** :   

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*(Daisy Qin)*

**Reviewed By** :   

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*(Sol Qin)*

**Authorized by** :   

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*(Michal Ling)*

**Prepared by** : **QTC Certification & Testing Co., Ltd.**  
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518000China.  
**Registration Number: 588523**

**REPORT REVISE RECORD**

| <b>Report Version</b> | <b>Revise Time</b> | <b>Issued Date</b> | <b>Valid Version</b> | <b>Notes</b>    |
|-----------------------|--------------------|--------------------|----------------------|-----------------|
| V1.0                  | /                  | September 09, 2016 | Valid                | Original Report |
| V1.1                  | /                  | October 08, 2016   | Valid                | Original Report |

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# 1 BAND EDGE

## 1.1 Measurement Result

### GSM850:

| Test Channel | BW(MHz) | UL Channel | Frequency(MHz) | Judgement |
|--------------|---------|------------|----------------|-----------|
| Low Range    | 0.2     | 128        | 824.2          | Pass      |
| High Range   | 0.2     | 251        | 848.8          | Pass      |

### PCS 1900:

| Test Channel | BW(MHz) | UL Channel | Frequency(MHz) | Judgement |
|--------------|---------|------------|----------------|-----------|
| Low Range    | 0.2     | 512        | 1850.2         | Pass      |
| High Range   | 0.2     | 810        | 1909.8         | Pass      |

### UTRA BANDS

#### BAND 2:

| Test Channel | BW(MHz) | UL Channel | Frequency(MHz) | Judgement |
|--------------|---------|------------|----------------|-----------|
| Low Range    | 5       | 9262       | 1852.4         | Pass      |
| High Range   | 5       | 9538       | 1907.6         | Pass      |

#### BAND 5:

| Test Channel | BW(MHz) | UL Channel | Frequency(MHz) | Judgement |
|--------------|---------|------------|----------------|-----------|
| Low Range    | 5       | 4132       | 826.4          | Pass      |
| High Range   | 5       | 4233       | 846.6          | Pass      |

**E-UTRA****BAND 2:**

| Bandwidth | UL Channel | Frequency | Modulation | RB Size | RB Offset | Judgement |
|-----------|------------|-----------|------------|---------|-----------|-----------|
| 1.4       | 18607      | 1850.7    | QPSK       | 6       | LOW       | Pass      |
| 1.4       | 18607      | 1850.7    | Q16        | 6       | LOW       | Pass      |
| 1.4       | 19193      | 1909.3    | QPSK       | 6       | LOW       | Pass      |
| 1.4       | 19193      | 1909.3    | Q16        | 6       | LOW       | Pass      |
| 3         | 18615      | 1851.5    | QPSK       | 15      | LOW       | Pass      |
| 3         | 18615      | 1851.5    | Q16        | 15      | LOW       | Pass      |
| 3         | 19185      | 1908.5    | QPSK       | 15      | LOW       | Pass      |
| 3         | 19185      | 1908.5    | Q16        | 15      | LOW       | Pass      |
| 5         | 18625      | 1852.5    | QPSK       | 25      | LOW       | Pass      |
| 5         | 18625      | 1852.5    | Q16        | 25      | LOW       | Pass      |
| 5         | 19175      | 1907.5    | QPSK       | 25      | LOW       | Pass      |
| 5         | 19175      | 1907.5    | Q16        | 25      | LOW       | Pass      |
| 10        | 18650      | 1855      | QPSK       | 50      | LOW       | Pass      |
| 10        | 18650      | 1855      | Q16        | 50      | LOW       | Pass      |
| 10        | 19150      | 1905      | QPSK       | 50      | LOW       | Pass      |
| 10        | 19150      | 1905      | Q16        | 50      | LOW       | Pass      |
| 15        | 18675      | 1857.5    | QPSK       | 75      | LOW       | Pass      |
| 15        | 18675      | 1857.5    | Q16        | 75      | LOW       | Pass      |
| 15        | 19125      | 1902.5    | QPSK       | 75      | LOW       | Pass      |
| 15        | 19125      | 1902.5    | Q16        | 75      | LOW       | Pass      |
| 20        | 18700      | 1860      | QPSK       | 100     | LOW       | Pass      |
| 20        | 18700      | 1860      | Q16        | 100     | LOW       | Pass      |
| 20        | 19100      | 1900      | QPSK       | 100     | LOW       | Pass      |
| 20        | 19100      | 1900      | Q16        | 100     | LOW       | Pass      |

**BAND 4:**

| Bandwidth | UL Channel | Frequency | Modulation | RB Size | RB Offset | Judgement |
|-----------|------------|-----------|------------|---------|-----------|-----------|
| 1.4       | 18607      | 1850.7    | QPSK       | 6       | LOW       | Pass      |
| 1.4       | 18607      | 1850.7    | Q16        | 6       | LOW       | Pass      |
| 1.4       | 19193      | 1909.3    | QPSK       | 6       | LOW       | Pass      |
| 1.4       | 19193      | 1909.3    | Q16        | 6       | LOW       | Pass      |
| 3         | 18615      | 1851.5    | QPSK       | 15      | LOW       | Pass      |
| 3         | 18615      | 1851.5    | Q16        | 15      | LOW       | Pass      |
| 3         | 19185      | 1908.5    | QPSK       | 15      | LOW       | Pass      |
| 3         | 19185      | 1908.5    | Q16        | 15      | LOW       | Pass      |
| 5         | 18625      | 1852.5    | QPSK       | 25      | LOW       | Pass      |
| 5         | 18625      | 1852.5    | Q16        | 25      | LOW       | Pass      |

| Bandwidth | UL Channel | Frequency | Modulation | RB Size | RB Offset | Judgement |
|-----------|------------|-----------|------------|---------|-----------|-----------|
| 5         | 19175      | 1907.5    | QPSK       | 25      | LOW       | Pass      |
| 5         | 19175      | 1907.5    | Q16        | 25      | LOW       | Pass      |
| 10        | 18650      | 1855      | QPSK       | 50      | LOW       | Pass      |
| 10        | 18650      | 1855      | Q16        | 50      | LOW       | Pass      |
| 10        | 19150      | 1905      | QPSK       | 50      | LOW       | Pass      |
| 10        | 19150      | 1905      | Q16        | 50      | LOW       | Pass      |
| 15        | 18675      | 1857.5    | QPSK       | 75      | LOW       | Pass      |
| 15        | 18675      | 1857.5    | Q16        | 75      | LOW       | Pass      |
| 15        | 19125      | 1902.5    | QPSK       | 75      | LOW       | Pass      |
| 15        | 19125      | 1902.5    | Q16        | 75      | LOW       | Pass      |
| 20        | 18700      | 1860      | QPSK       | 100     | LOW       | Pass      |
| 20        | 18700      | 1860      | Q16        | 100     | LOW       | Pass      |
| 20        | 19100      | 1900      | QPSK       | 100     | LOW       | Pass      |
| 20        | 19100      | 1900      | Q16        | 100     | LOW       | Pass      |

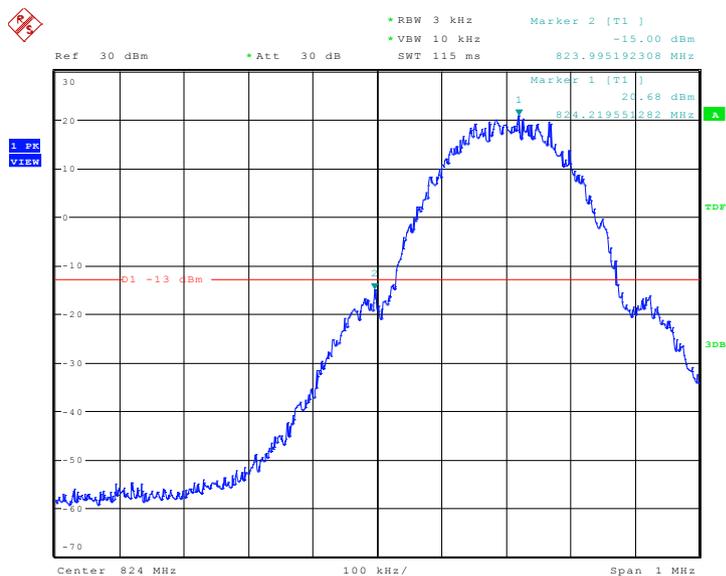
**BAND 7:**

| Bandwidth | UL Channel | Frequency | Modulation | RB Size | RB Offset | Judgement |
|-----------|------------|-----------|------------|---------|-----------|-----------|
| 5         | 20775      | 2502.5    | QPSK       | 25      | LOW       | Pass      |
| 5         | 20775      | 2502.5    | Q16        | 25      | LOW       | Pass      |
| 5         | 21425      | 2567.5    | QPSK       | 25      | LOW       | Pass      |
| 5         | 21425      | 2567.5    | Q16        | 25      | LOW       | Pass      |
| 10        | 20800      | 2505      | QPSK       | 50      | LOW       | Pass      |
| 10        | 20800      | 2505      | Q16        | 50      | LOW       | Pass      |
| 10        | 21400      | 2565      | QPSK       | 50      | LOW       | Pass      |
| 10        | 21400      | 2565      | Q16        | 50      | LOW       | Pass      |
| 15        | 20825      | 2507.5    | QPSK       | 75      | LOW       | Pass      |
| 15        | 20825      | 2507.5    | Q16        | 75      | LOW       | Pass      |
| 15        | 21375      | 2562.5    | QPSK       | 75      | LOW       | Pass      |
| 15        | 21375      | 2562.5    | Q16        | 75      | LOW       | Pass      |
| 20        | 20850      | 2510      | QPSK       | 100     | LOW       | Pass      |
| 20        | 20850      | 2510      | Q16        | 100     | LOW       | Pass      |
| 20        | 21350      | 2560      | QPSK       | 100     | LOW       | Pass      |
| 20        | 21350      | 2560      | Q16        | 100     | LOW       | Pass      |

## 1.2 Test Plot(s)

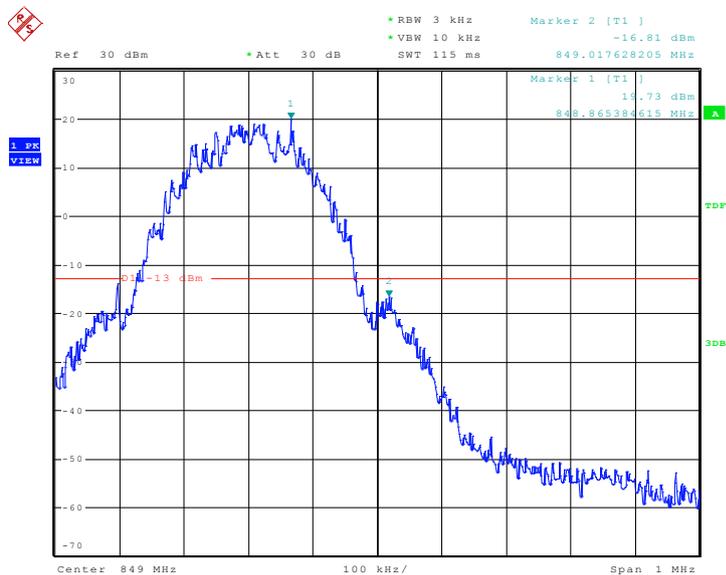
# UTRA BANDS

### Low Band Edge GSM 850 BAND CH 128



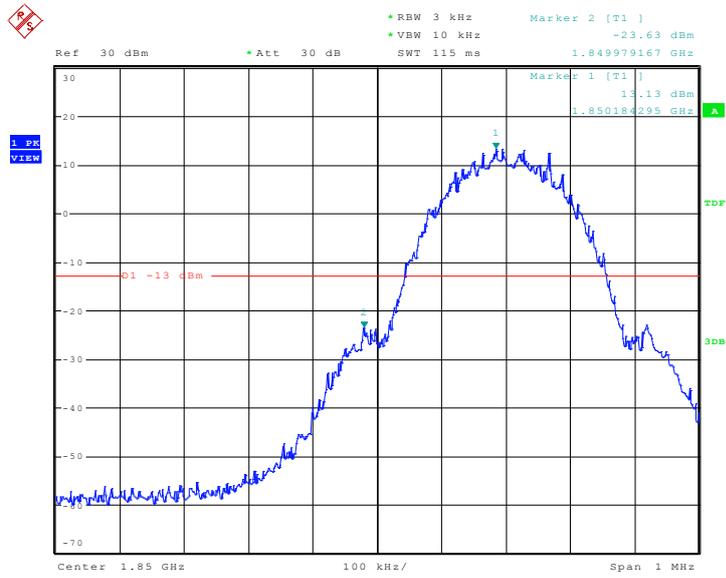
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### High Band Edge GSM 850 BAND CH 251



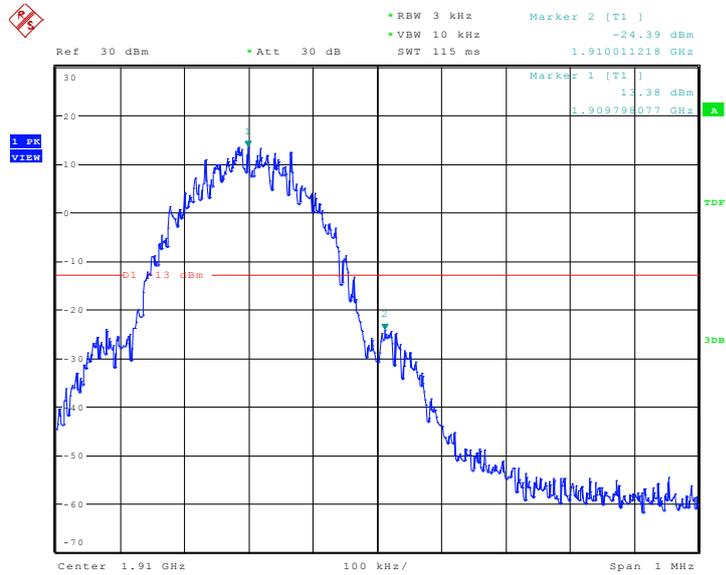
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### Low Band Edge PCS 1900 BAND CH 512



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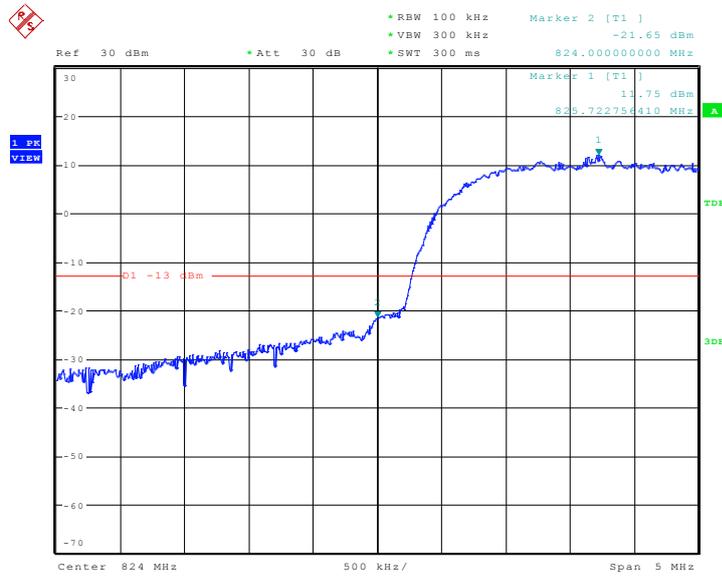
### High Band Edge PCS 1900 BAND CH 810



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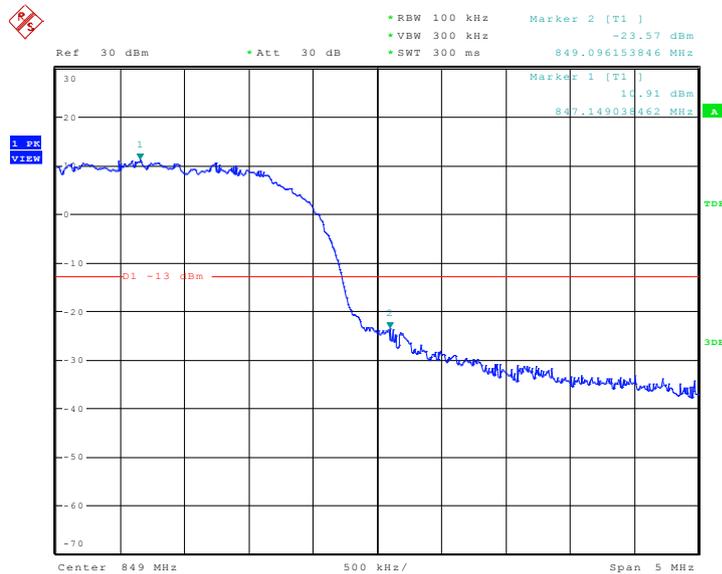


### Low Band Edge WCDMA BAND V CH 4133



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### High Band Edge WCDMA BAND V CH 4232

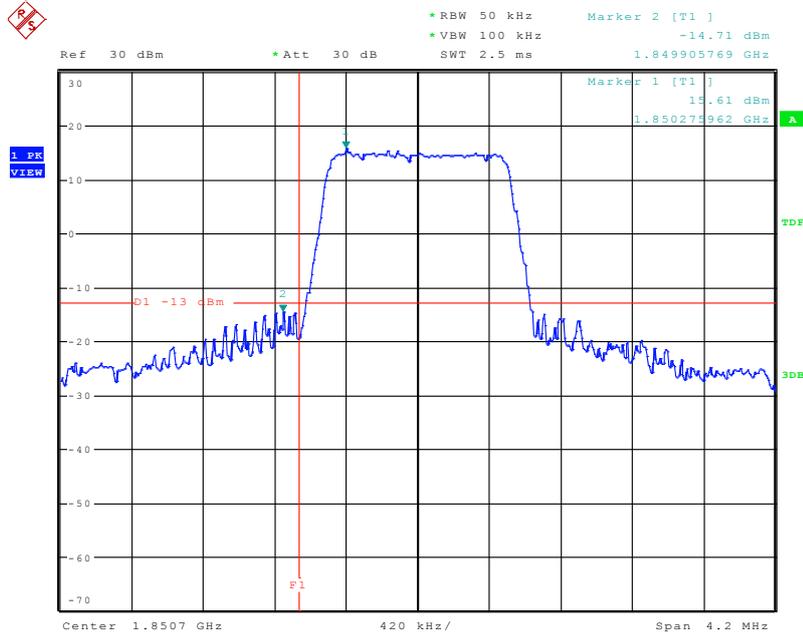


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# **E-UTRA BANDS**

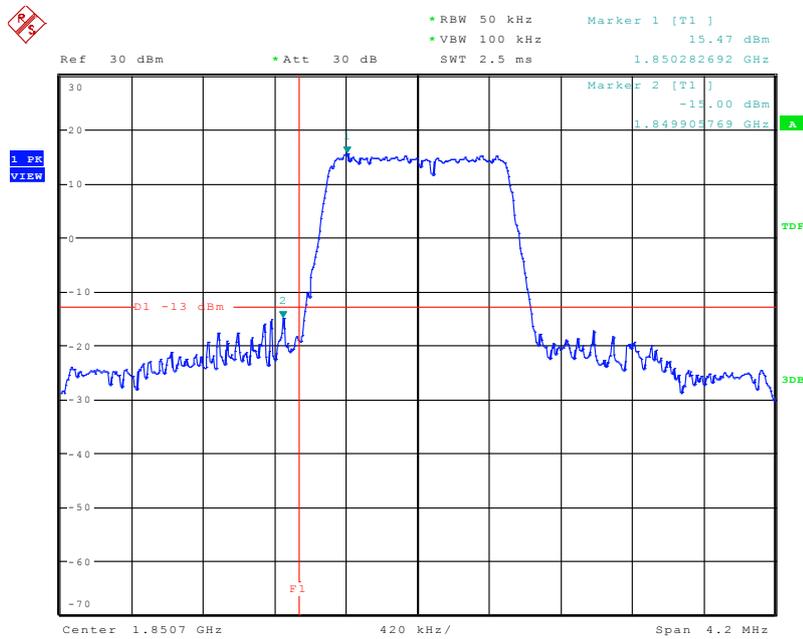
### BAND 2@Band Edge

BAND2-1850.7MHz,QPSK-6RB\_LOW@Pass



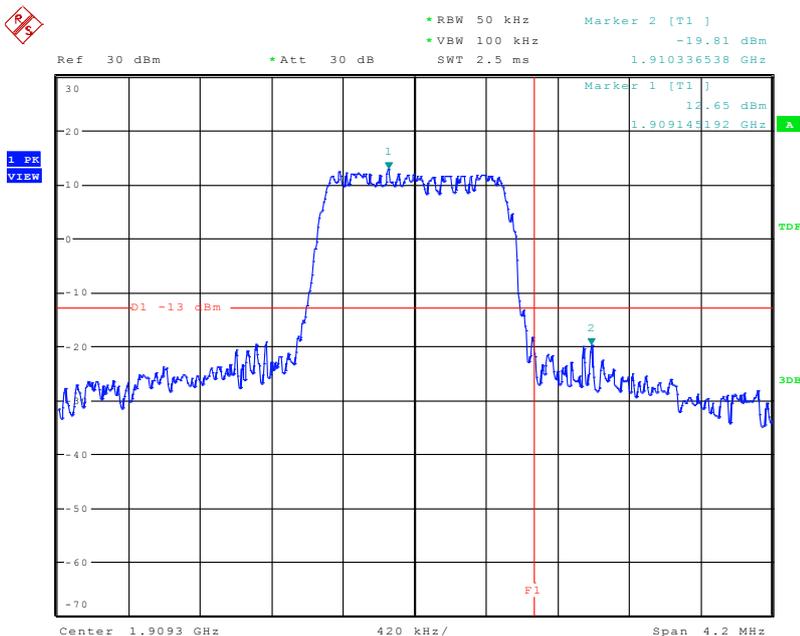
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BAND2-1850.7MHz,Q16-6RB\_LOW@Pass



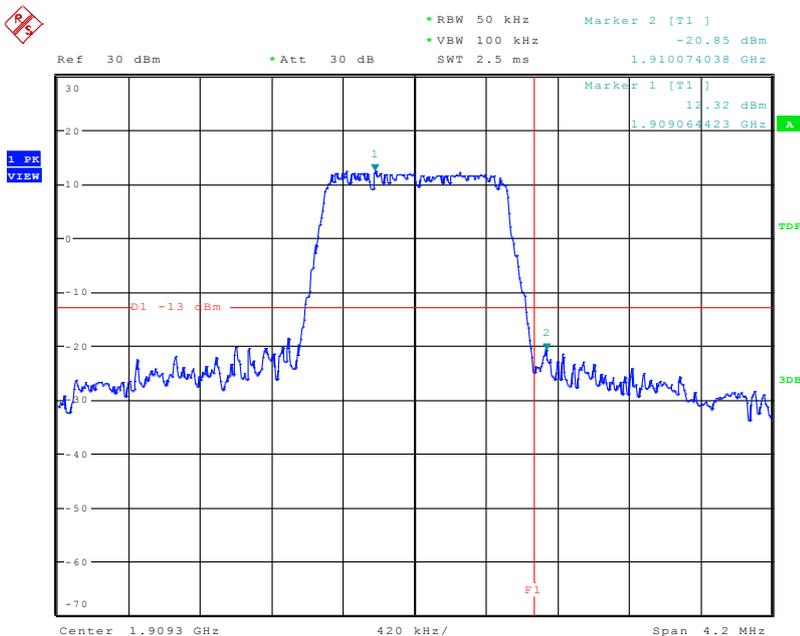
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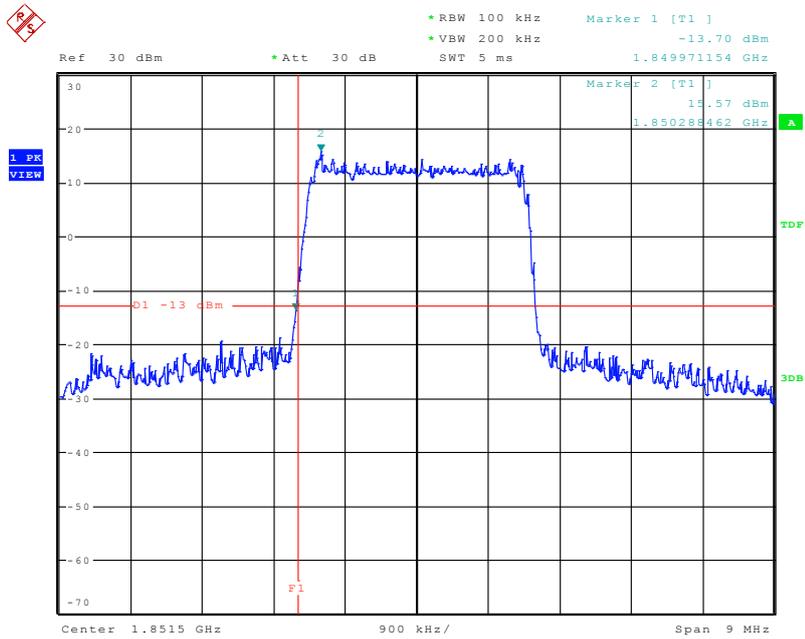
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### BAND2-1909.3MHz,Q16-6RB\_LOW@Pass



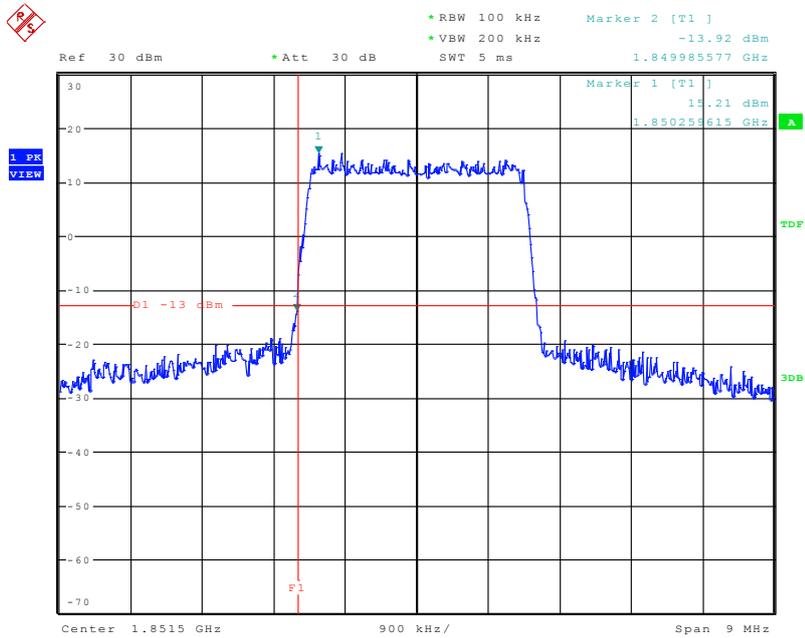
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### BAND2-1851.5MHz,QPSK-15RB\_LOW@Pass



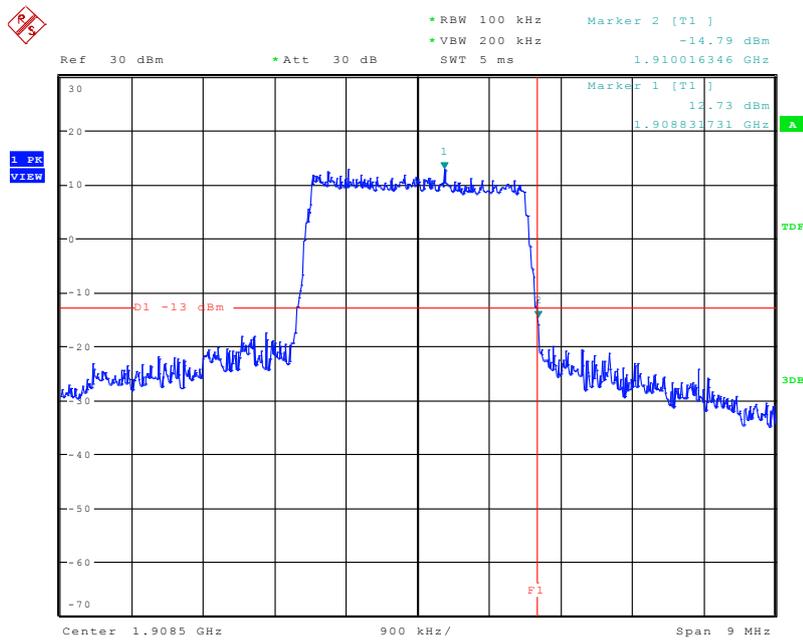
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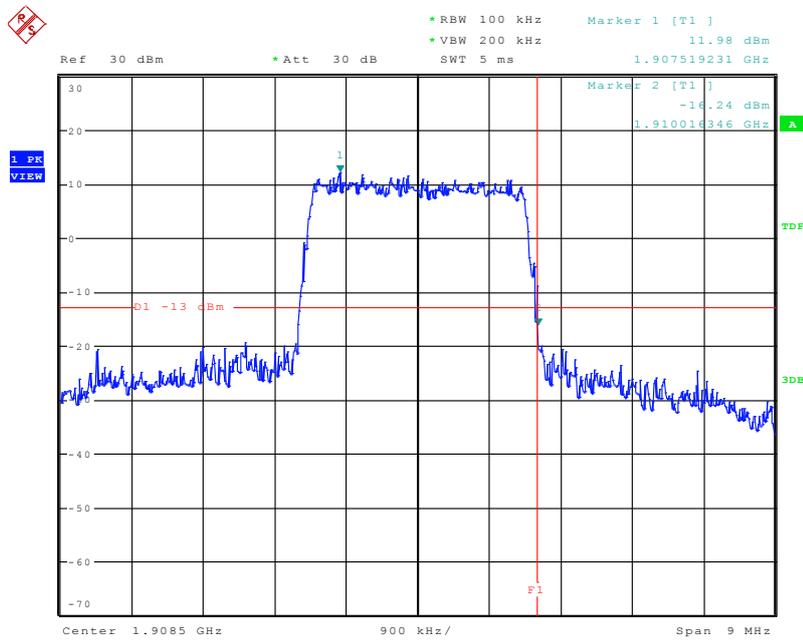
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BAND2-1908.5MHz,QPSK-15RB\_LOW@Pass



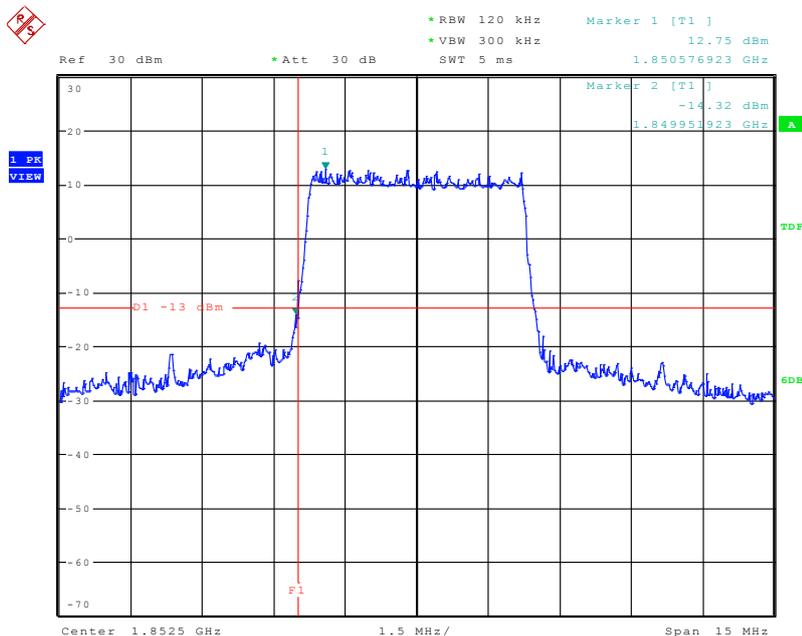
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BAND2-1908.5MHz,Q16-15RB\_LOW@Pass



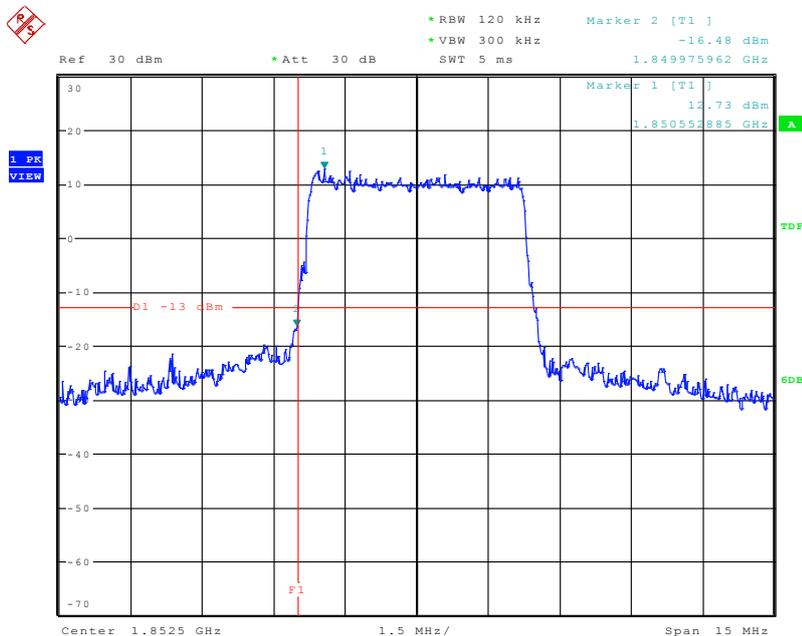
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### BAND2-1852.5MHz,QPSK-25RB\_LOW@Pass



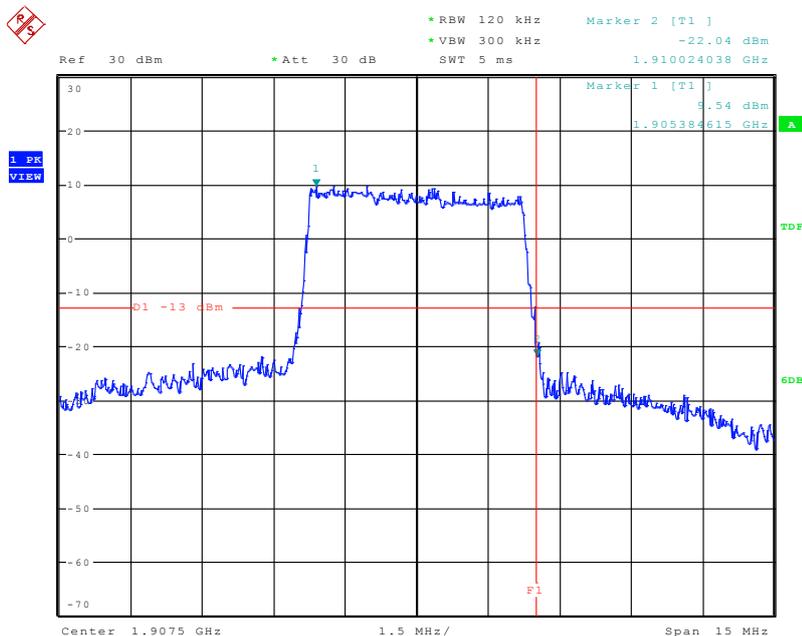
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### BAND2-1852.5MHz,Q16-25RB\_LOW@Pass



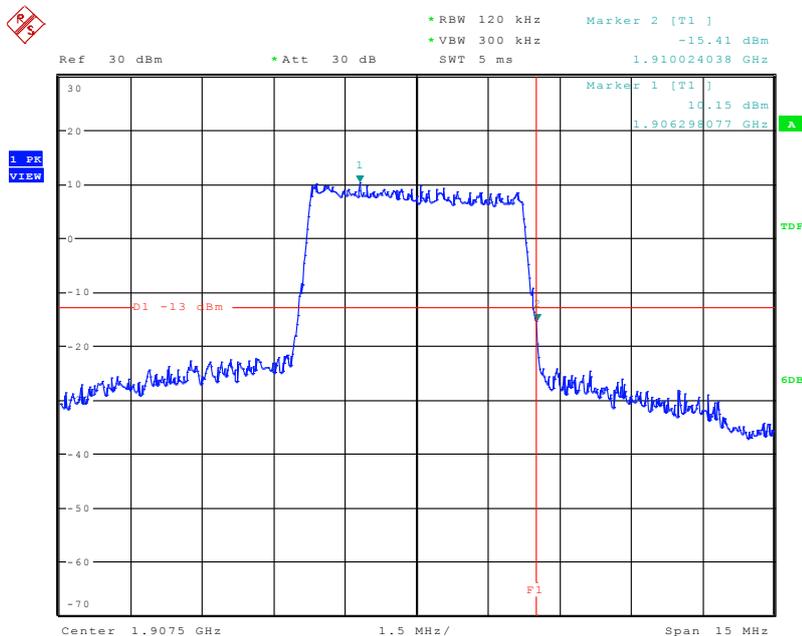
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### BAND2-1907.5MHz,QPSK-25RB\_LOW@Pass



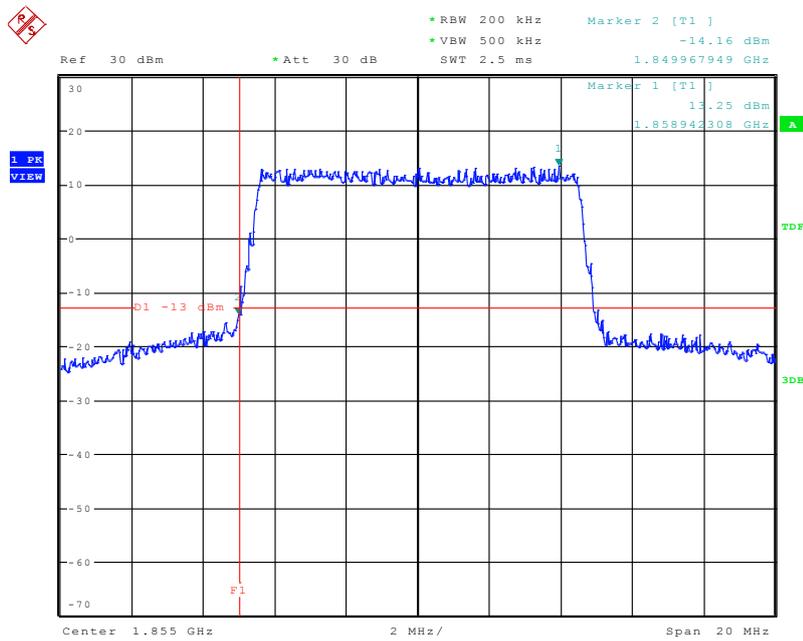
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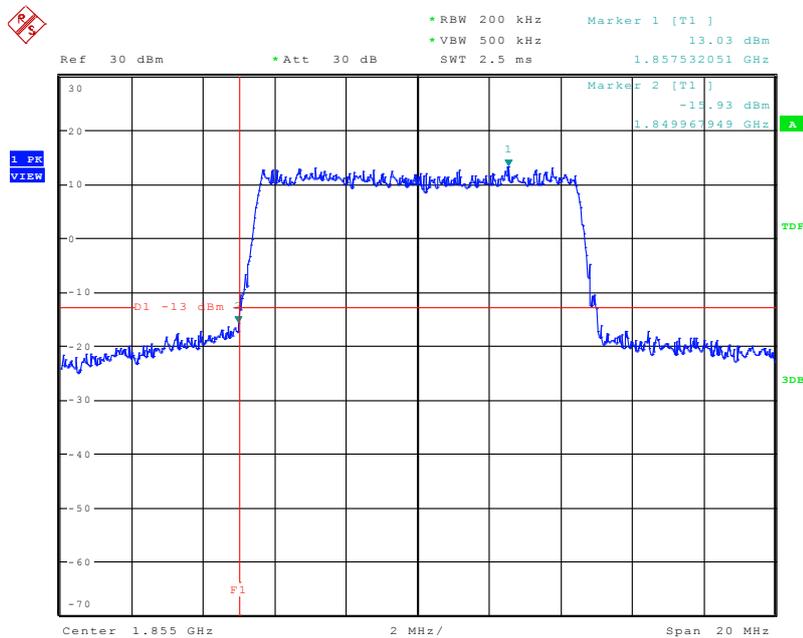
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### BAND2-1855MHz,QPSK-50RB\_LOW@Pass



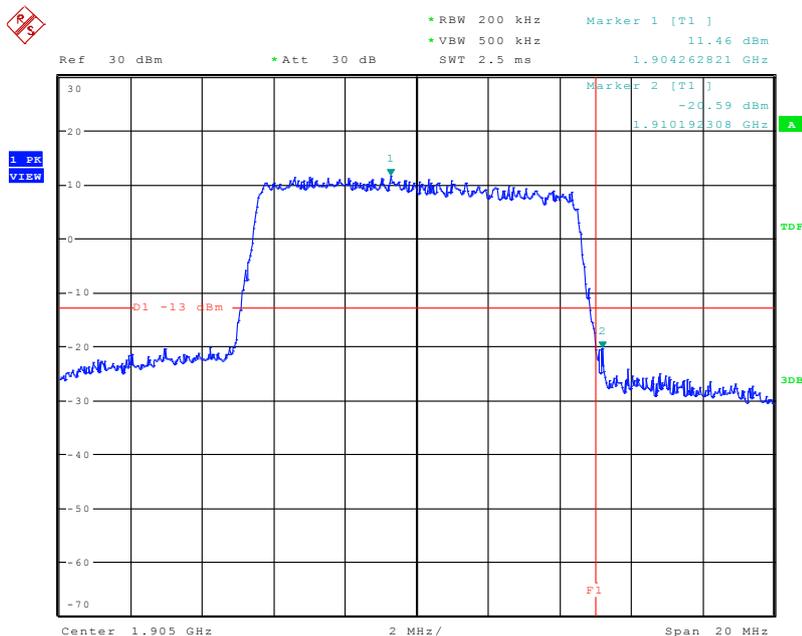
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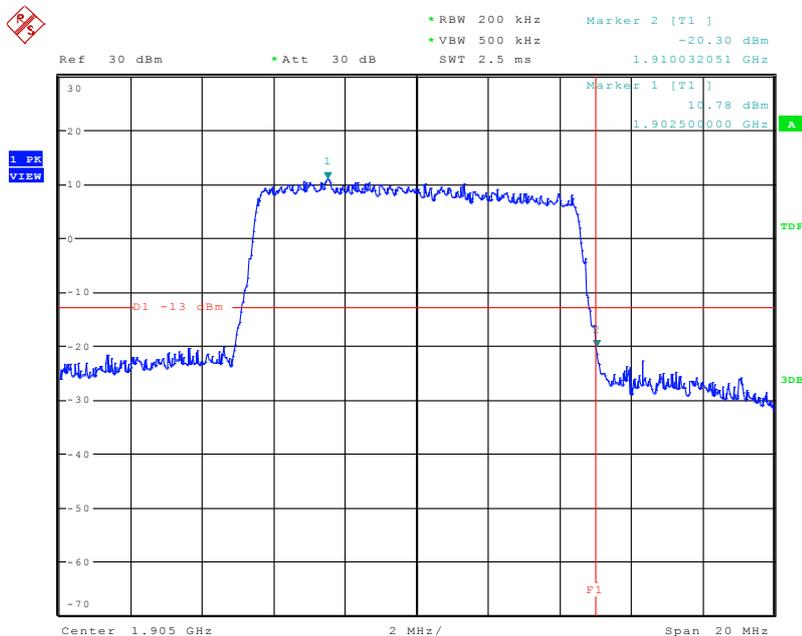


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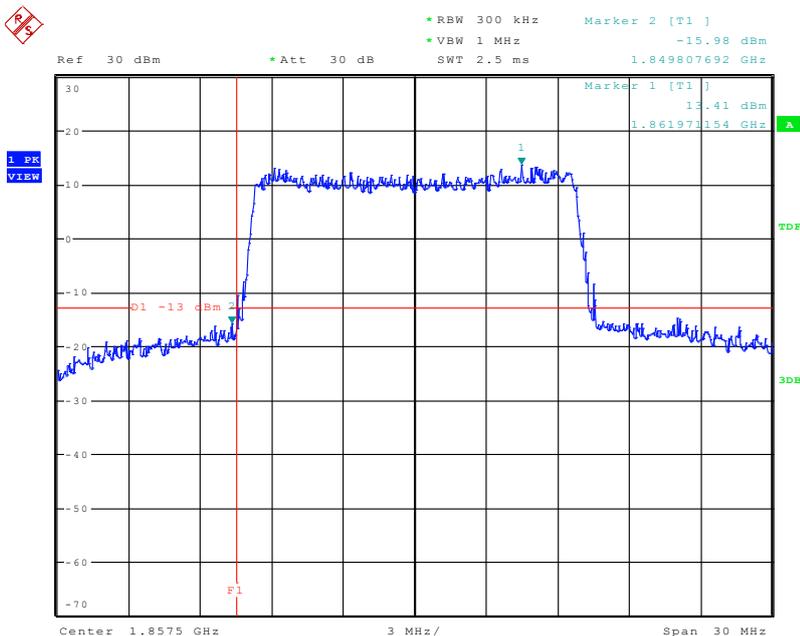
### BAND2-1905MHz,QPSK-50RB\_LOW@Pass



### BAND2-1905MHz,Q16-50RB\_LOW@Pass

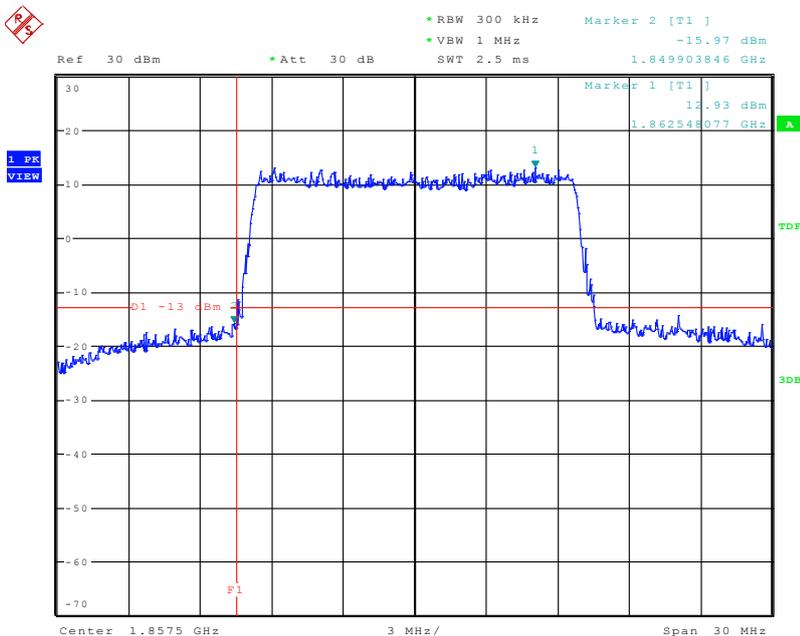


### BAND2-1857.5MHz,QPSK-75RB\_LOW@Pass



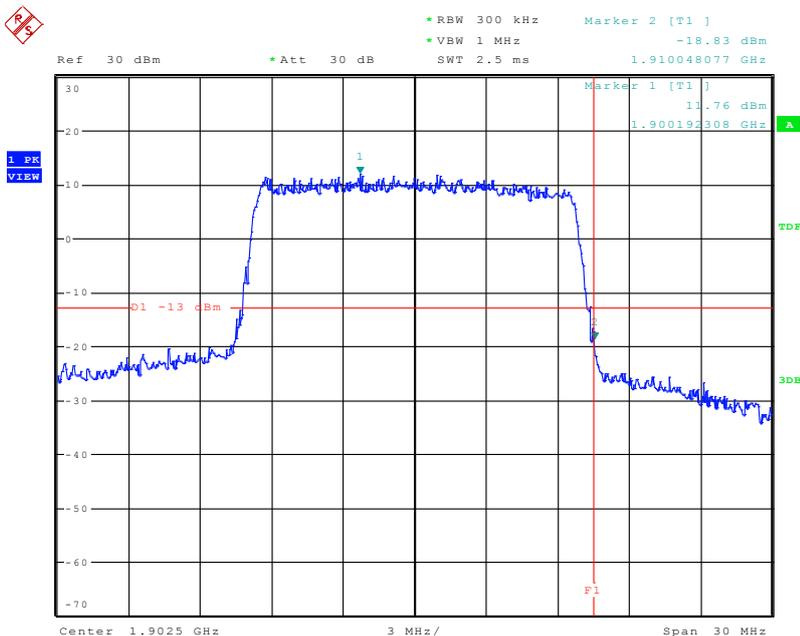
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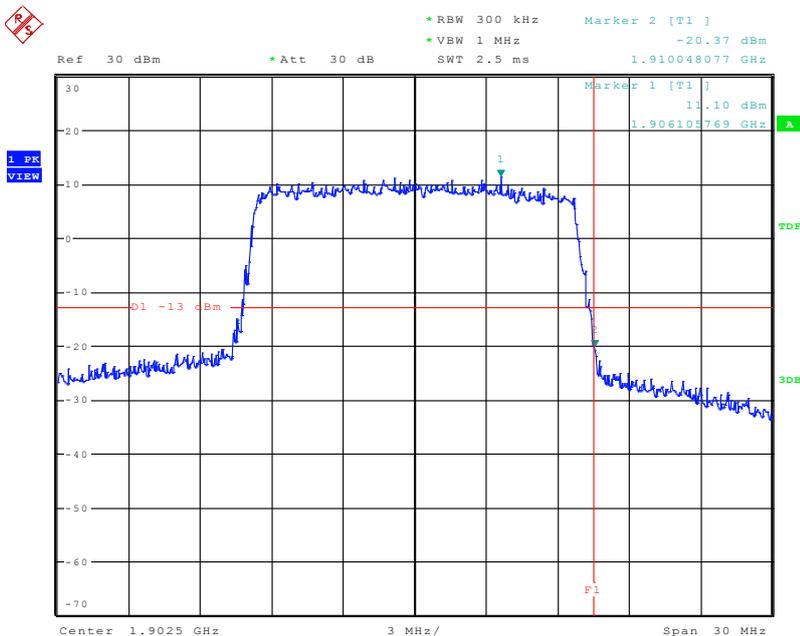
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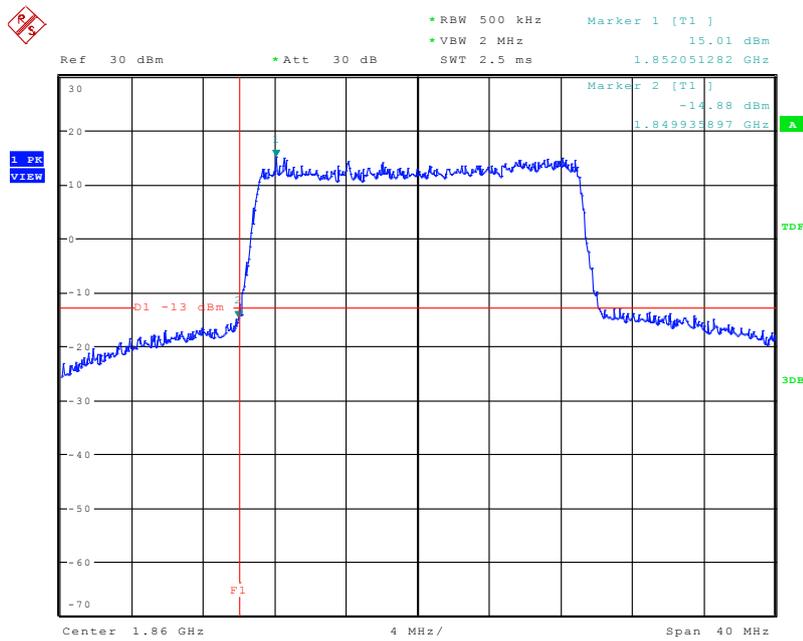
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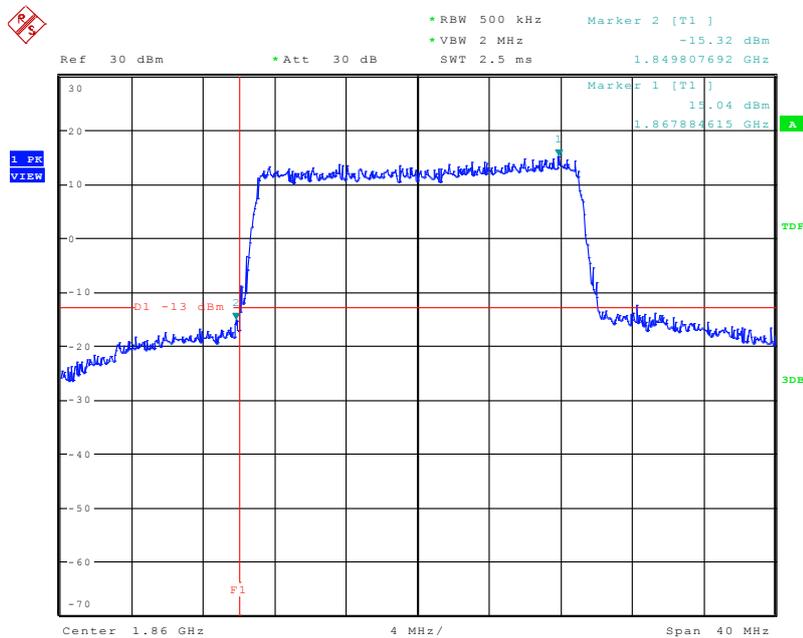
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BAND2-1860MHz,QPSK-100RB\_LOW@Pass



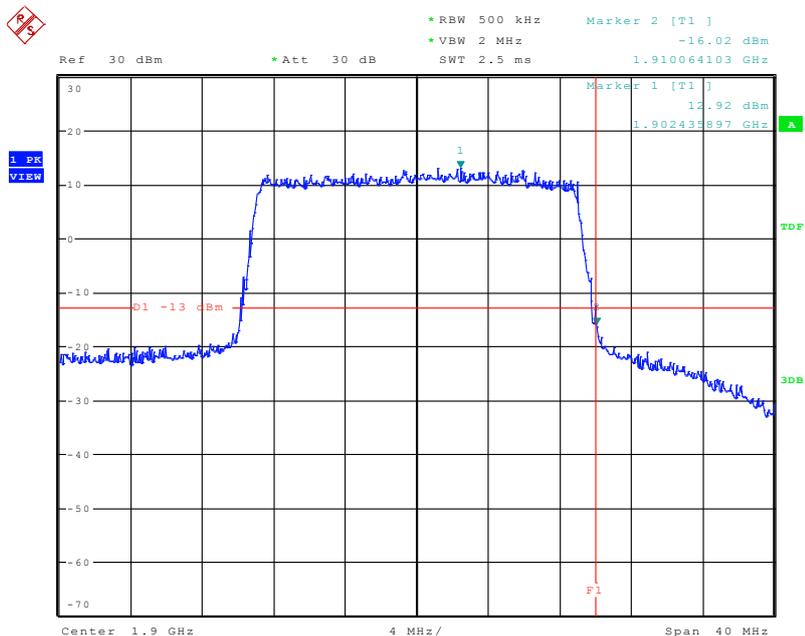
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BAND2-1860MHz,Q16-100RB\_LOW@Pass



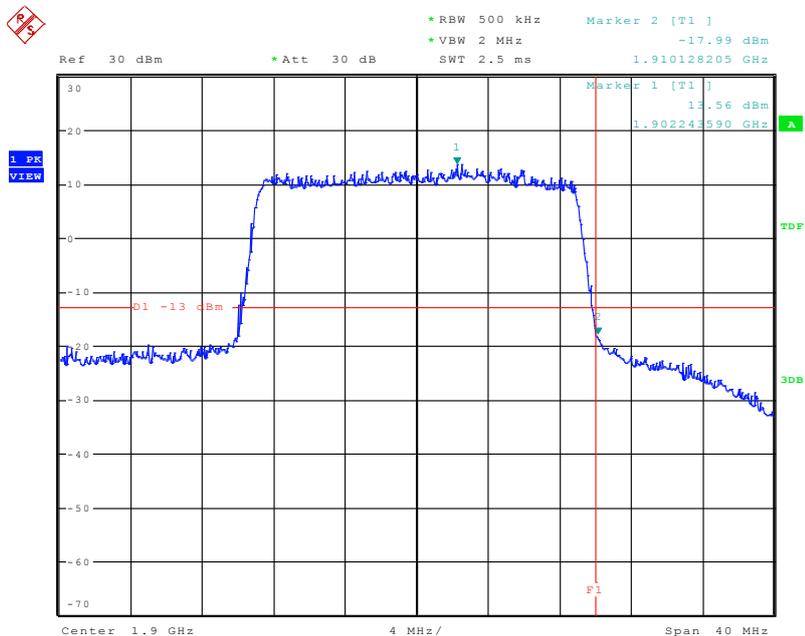
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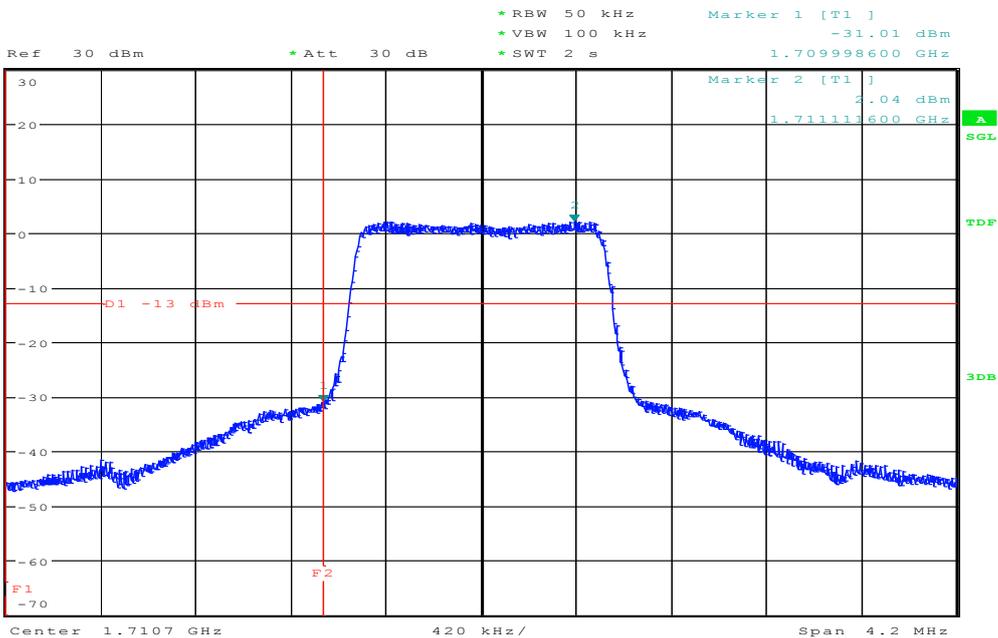
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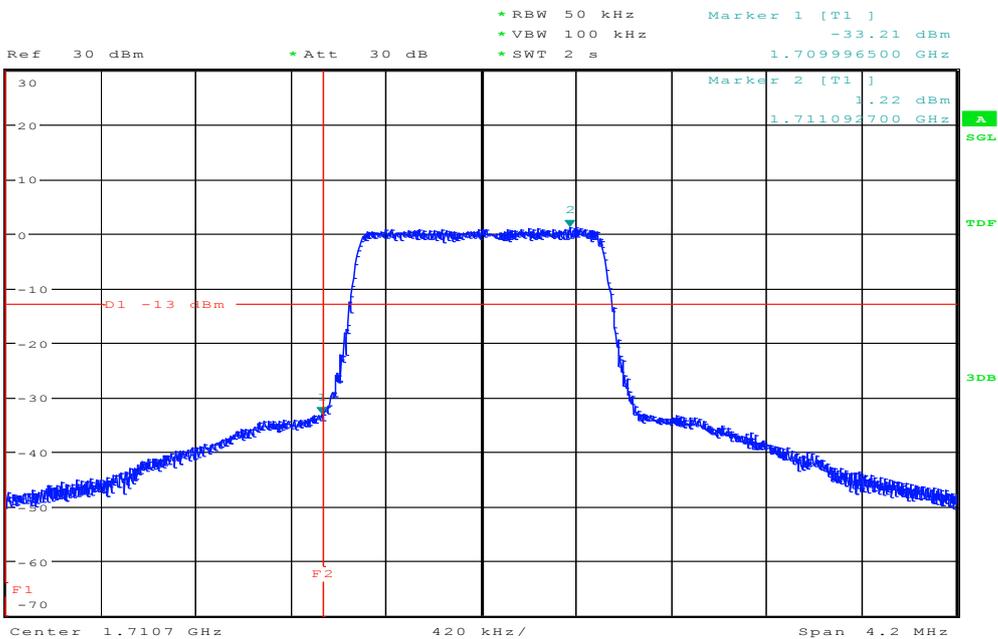
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### BAND 4@Band Edge

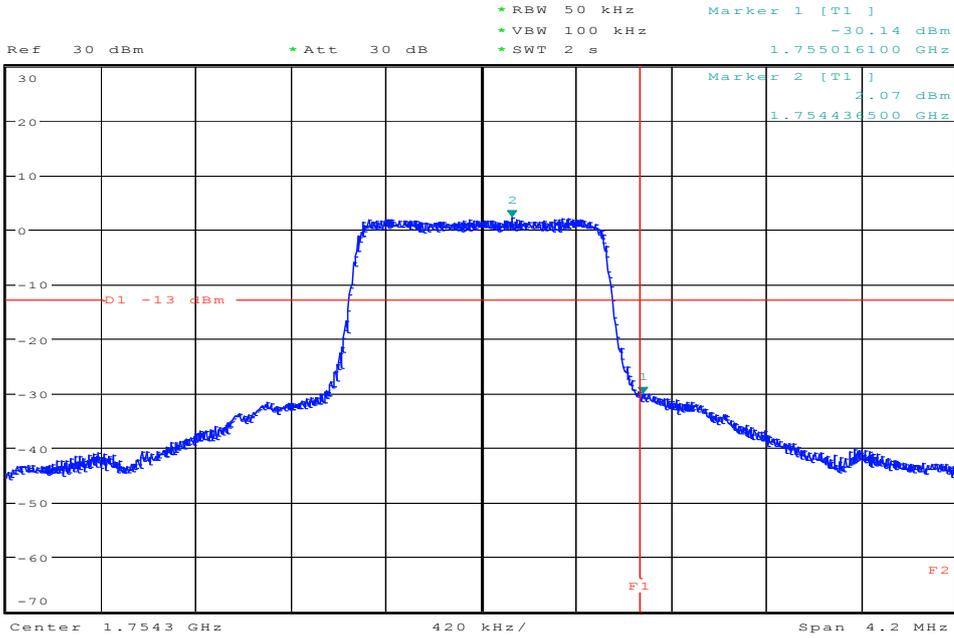
BAND4-1710.7MHz,QPSK-6RB\_LOW@Pass



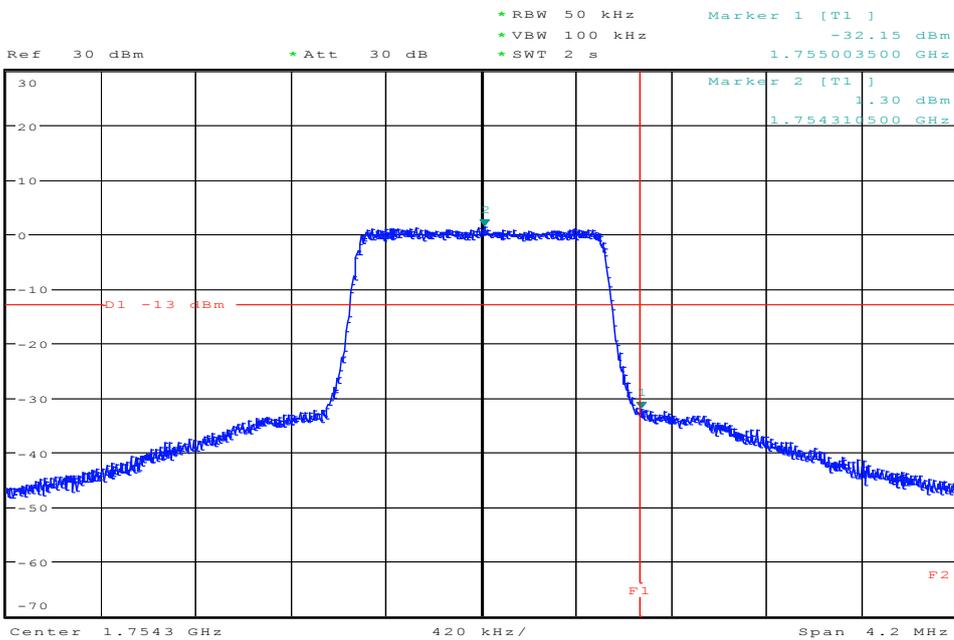
### BAND4-1710.7MHz,Q16-6RB\_LOW@Pass



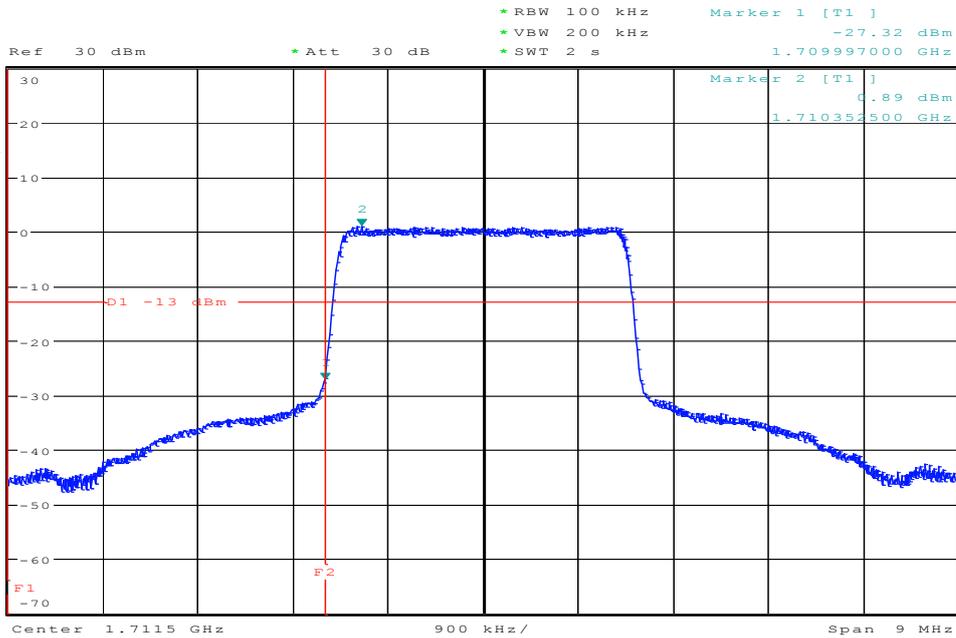
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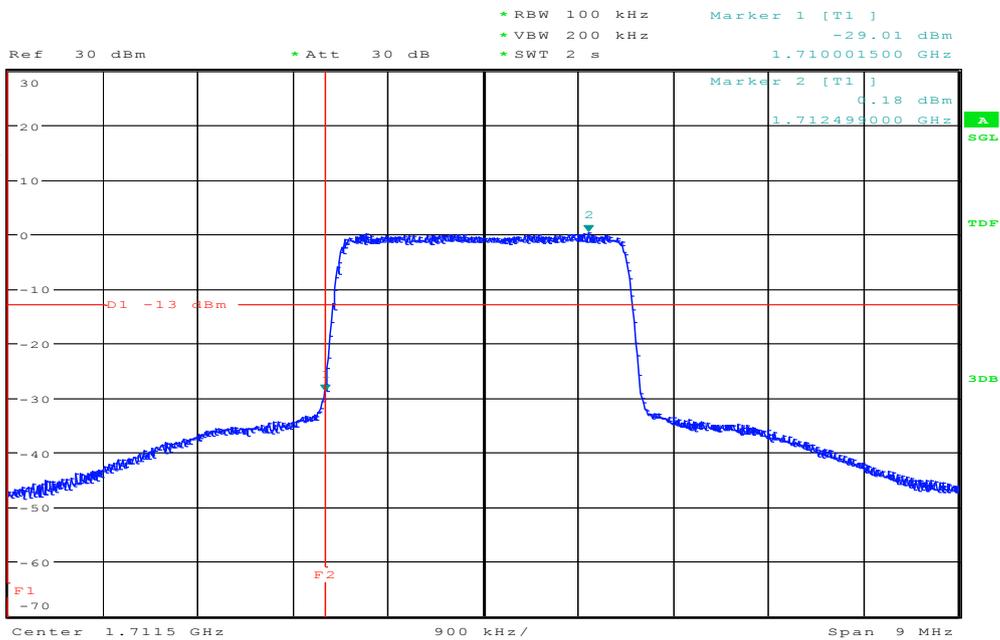
BAND4-1754.3MHz,Q16-6RB\_LOW@Pass



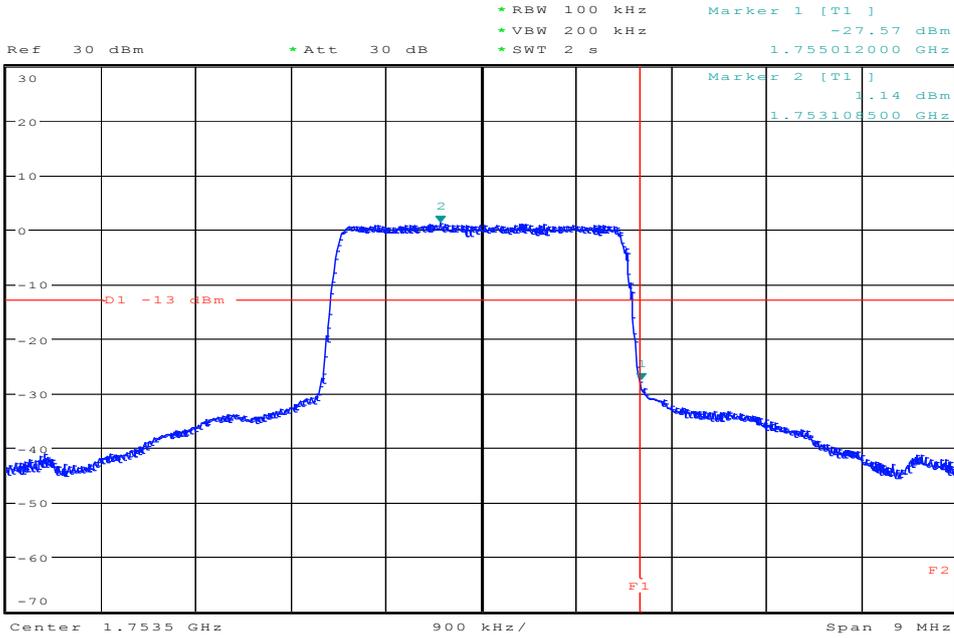
BAND4-1711.5MHz,QPSK-15RB\_LOW@Pass



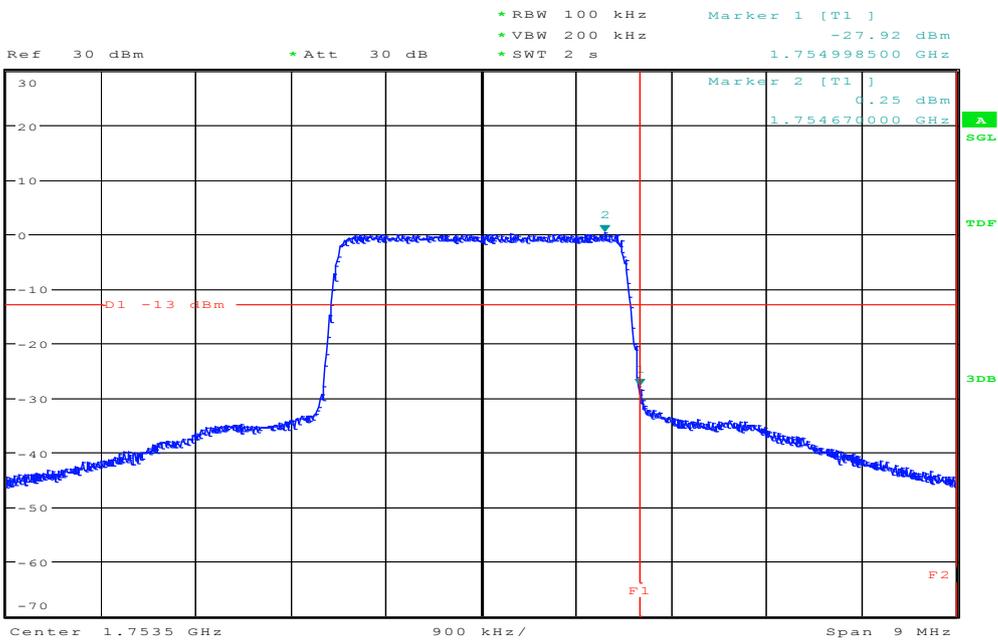
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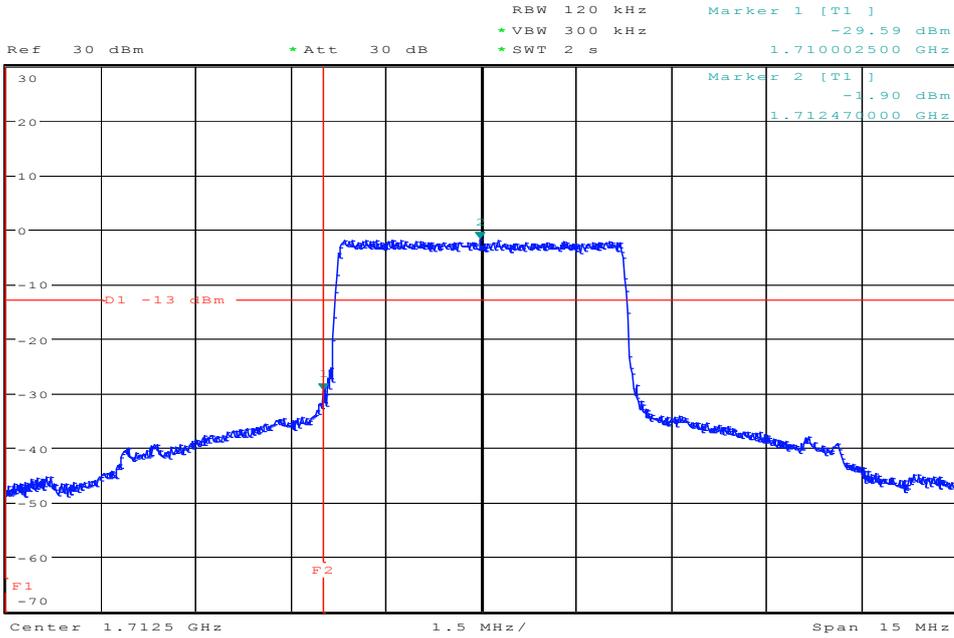
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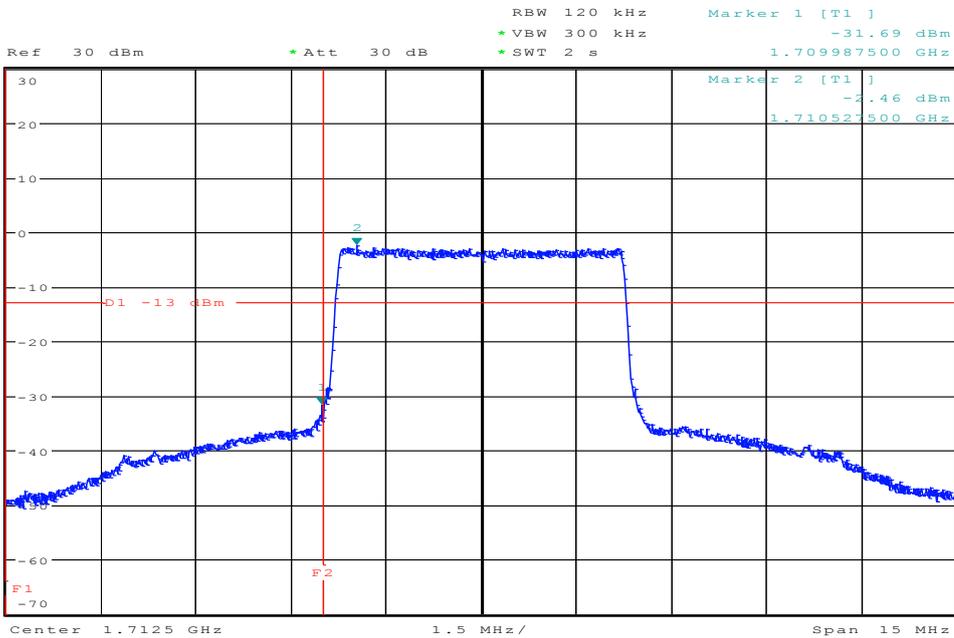
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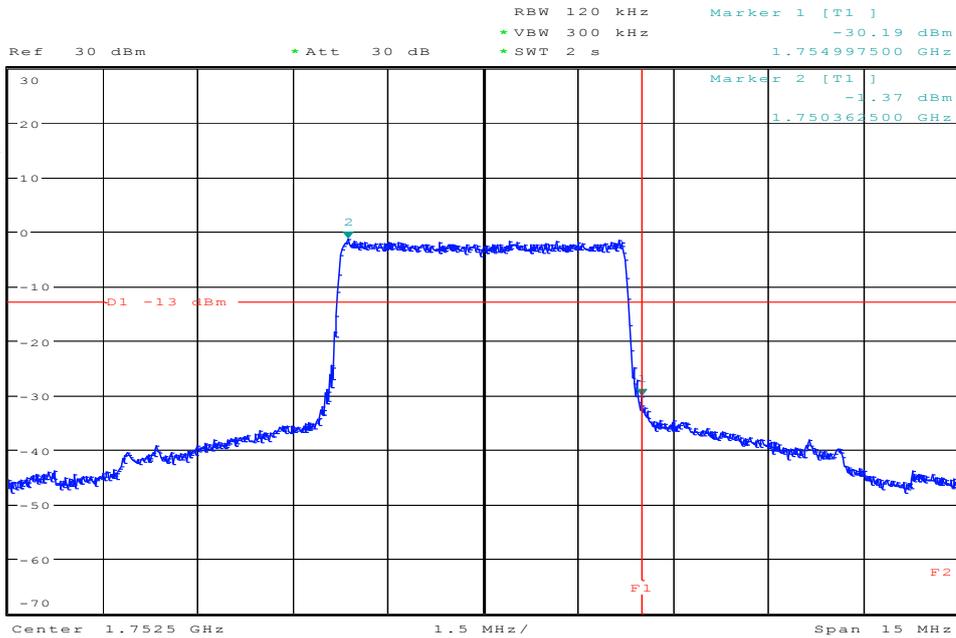
BAND4-1712.5MHz,QPSK-25RB\_LOW@Pass



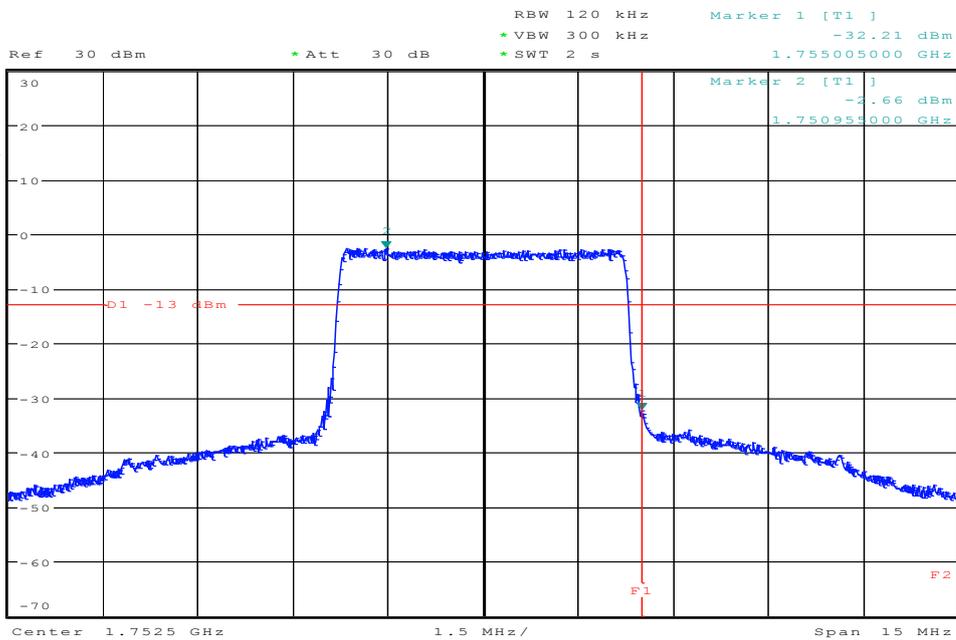
BAND4-1712.5MHz,Q16-25RB\_LOW@Pass



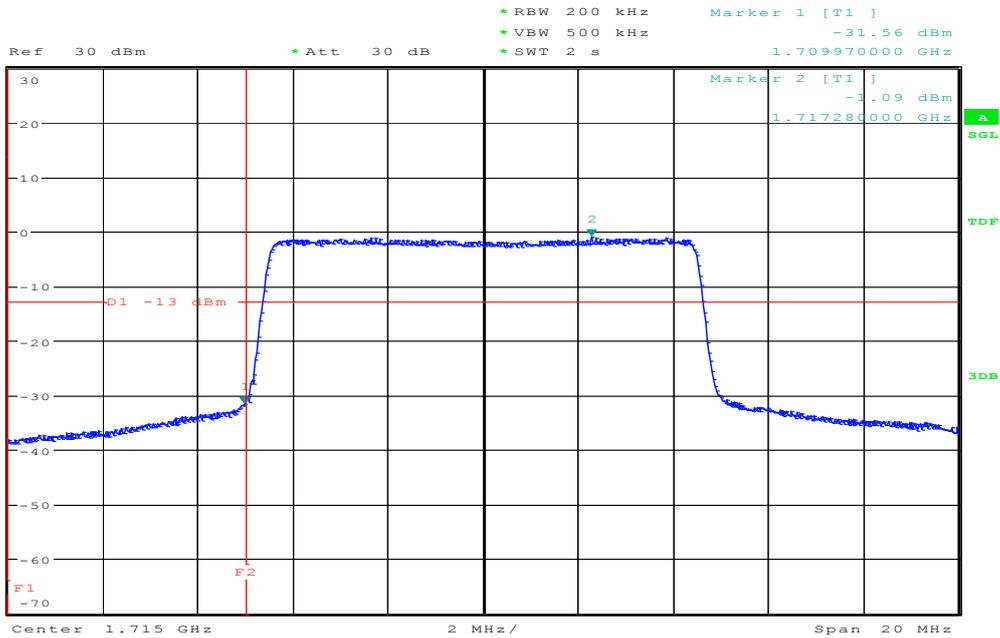
BAND4-1752.5MHz,QPSK-25RB\_LOW@Pass



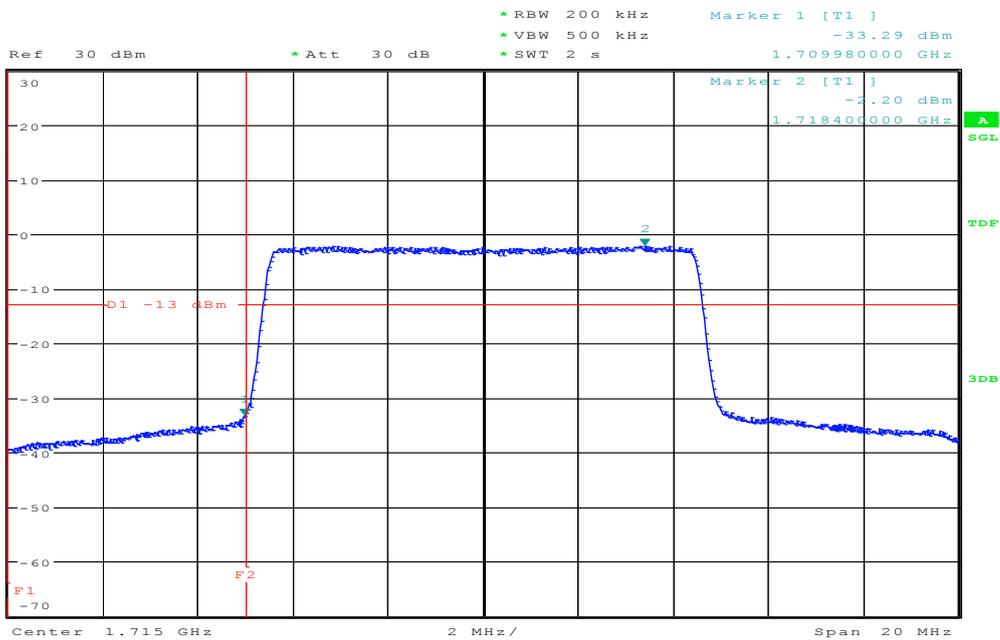
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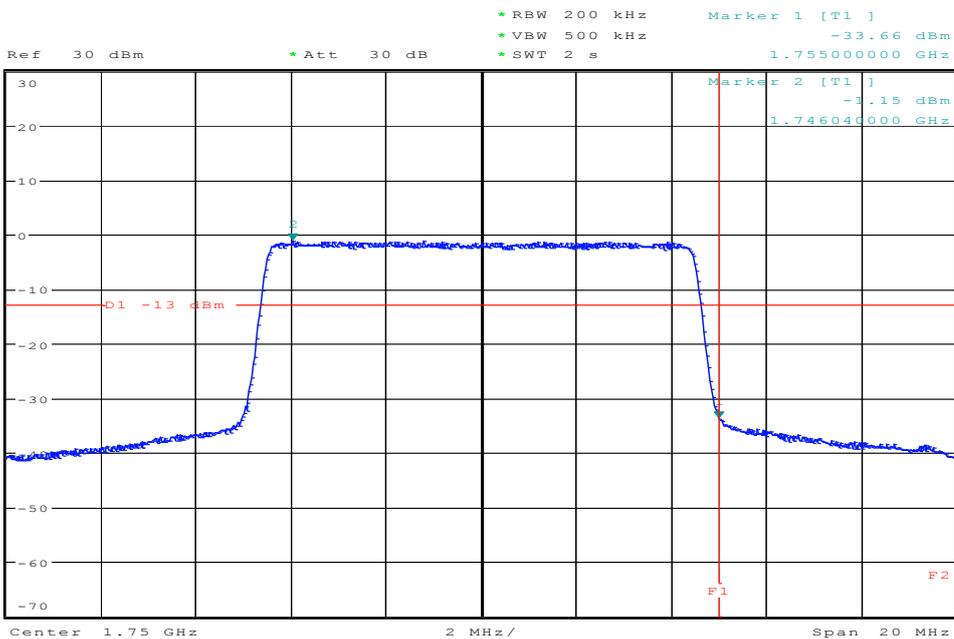
BAND4-1715MHz,QPSK-50RB\_LOW@Pass



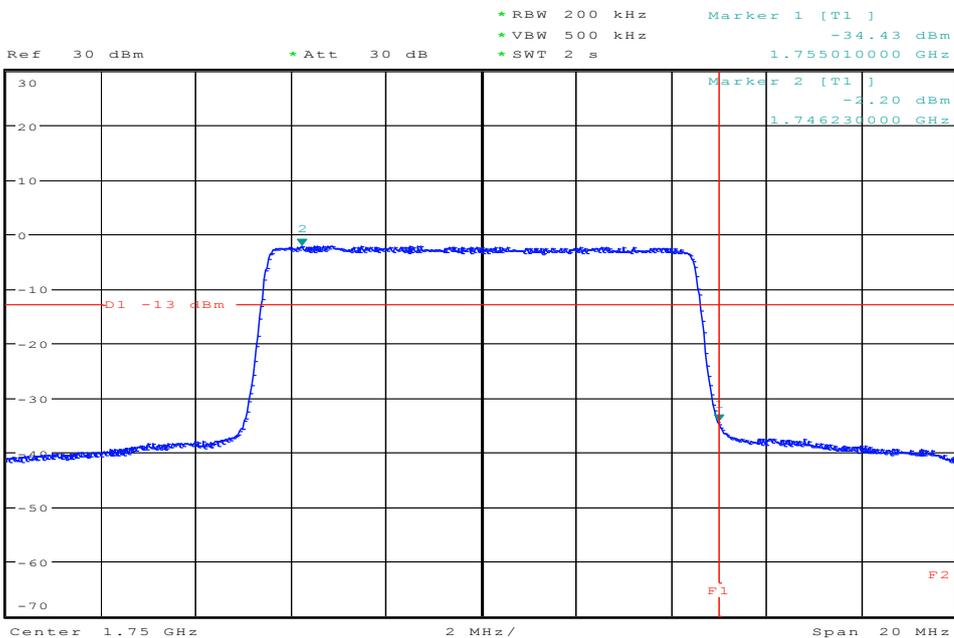
BAND4-1715MHz,Q16-50RB\_LOW@Pass



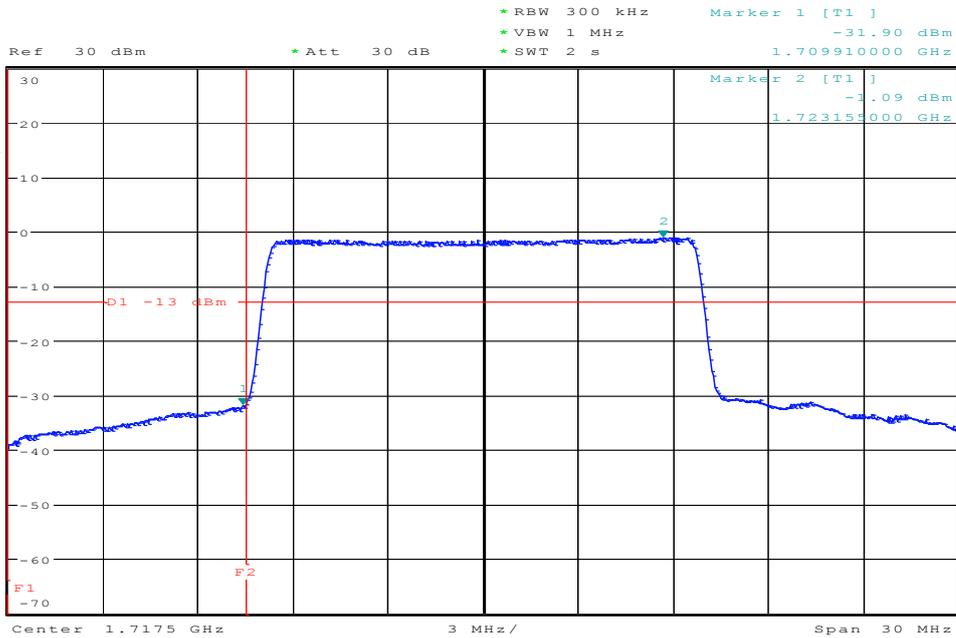
### BAND4-1750MHz,QPSK-50RB\_LOW@Pass



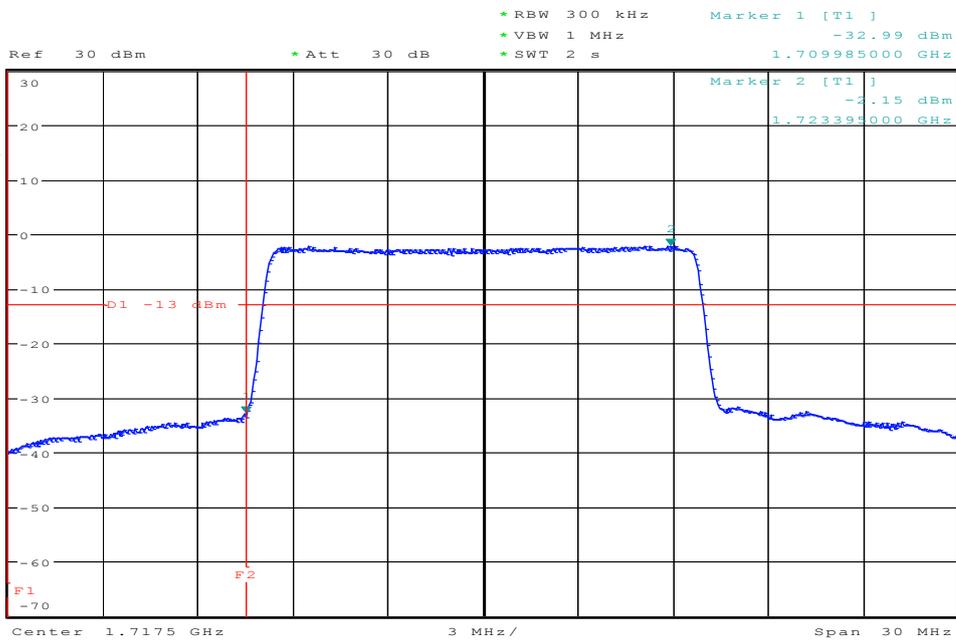
### BAND4-1750MHz,Q16-50RB\_LOW@Pass



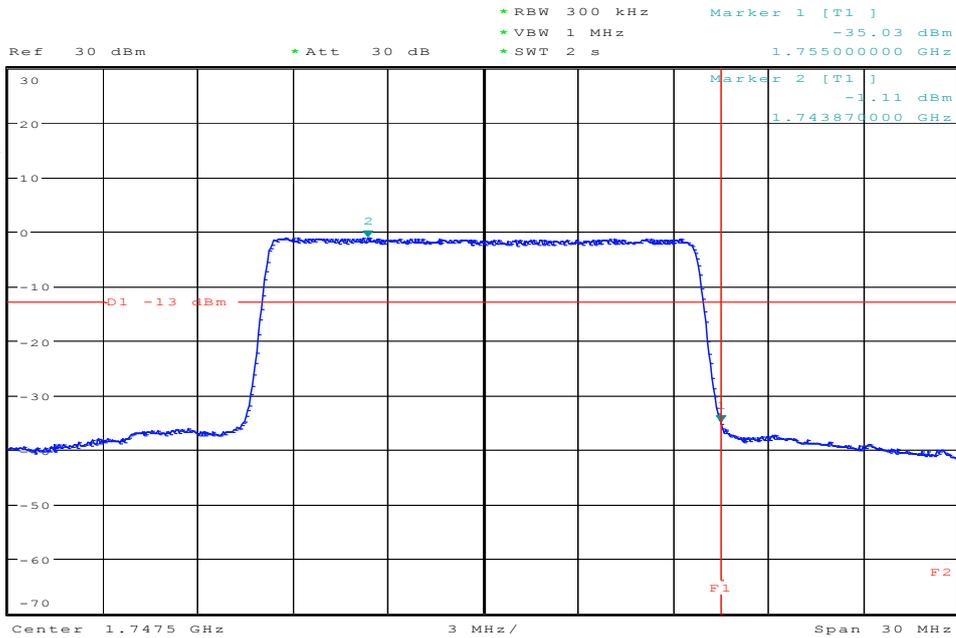
BAND4-1717.5MHz,QPSK-75RB\_LOW@Pass



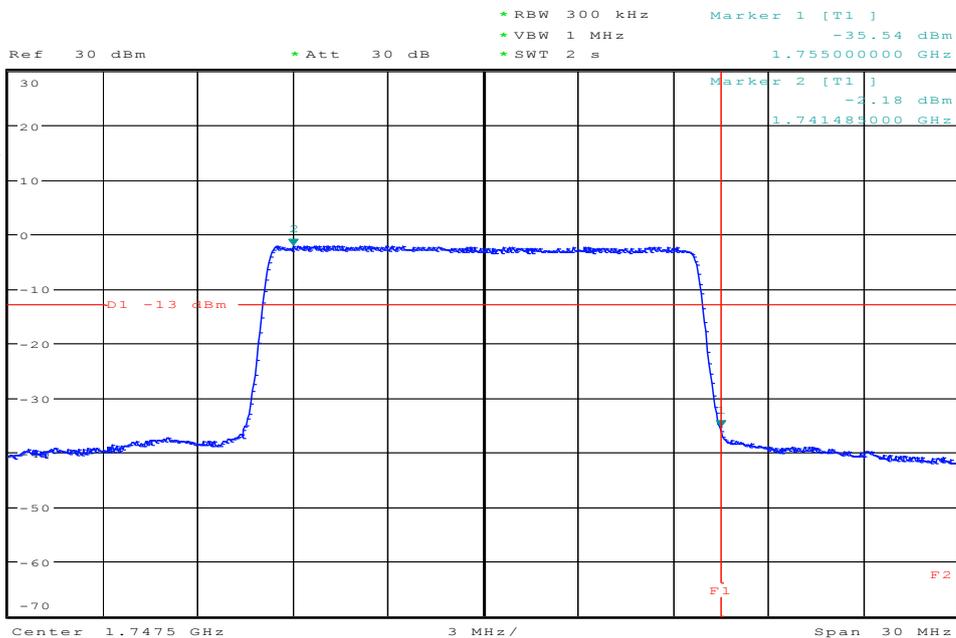
BAND4-1717.5MHz,Q16-75RB\_LOW@Pass



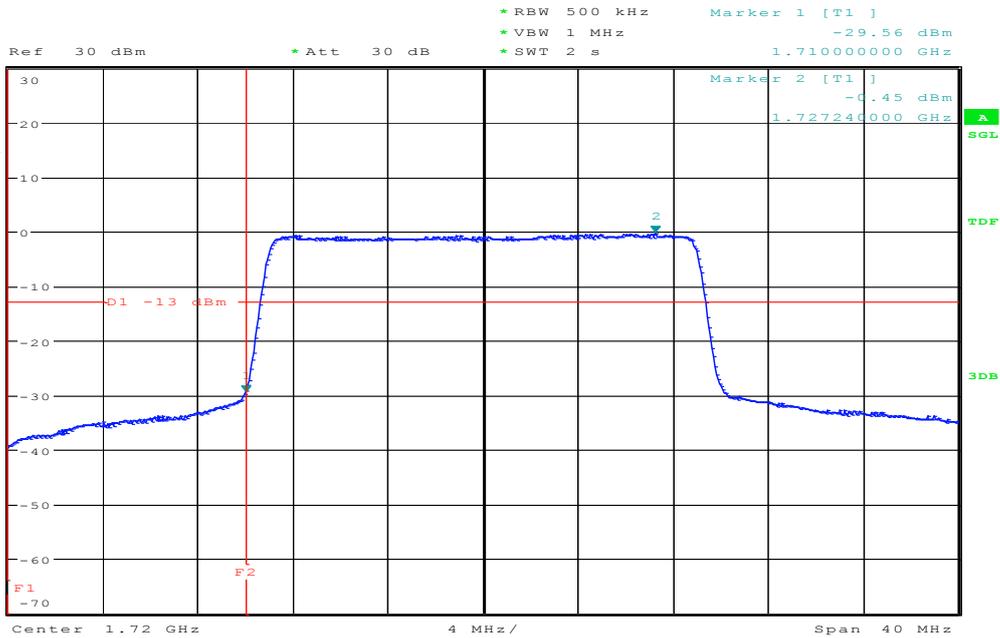
BAND4-1747.5MHz,QPSK-75RB\_LOW@Pass



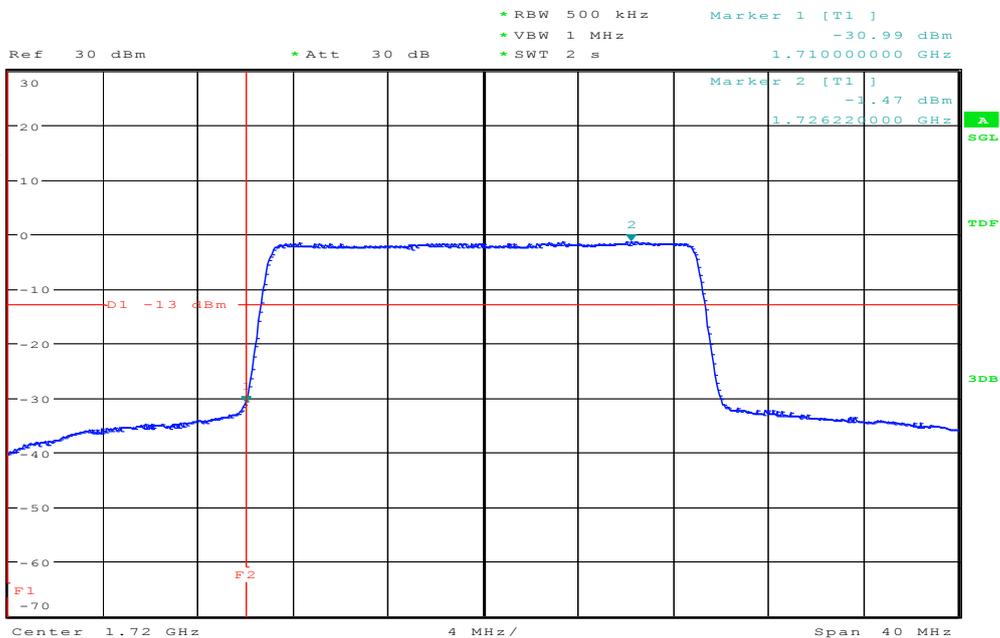
BAND4-1747.5MHz,Q16-75RB\_LOW@Pass



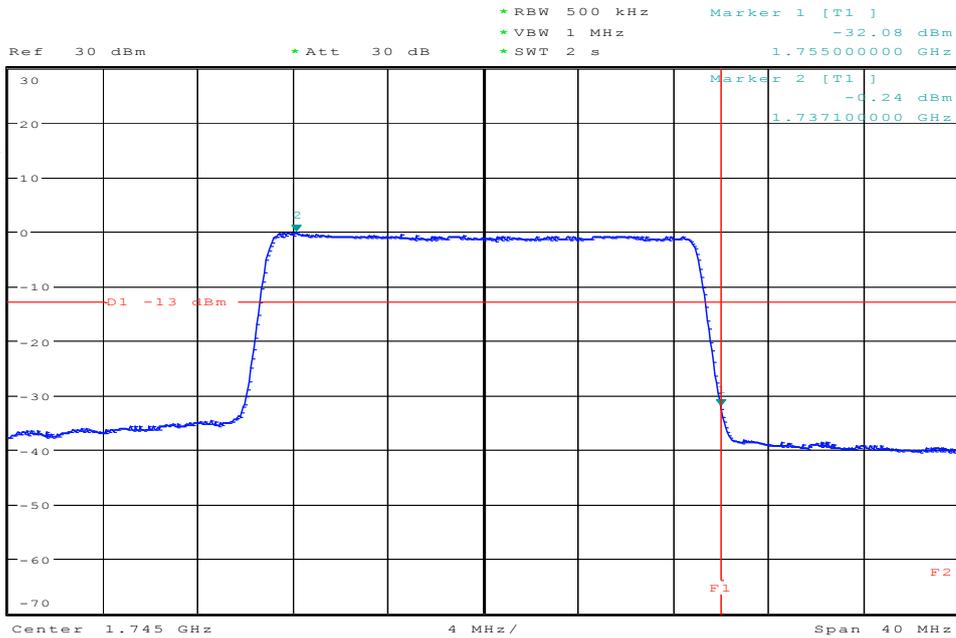
BAND4-1720MHz,QPSK-100RB\_LOW@Pass



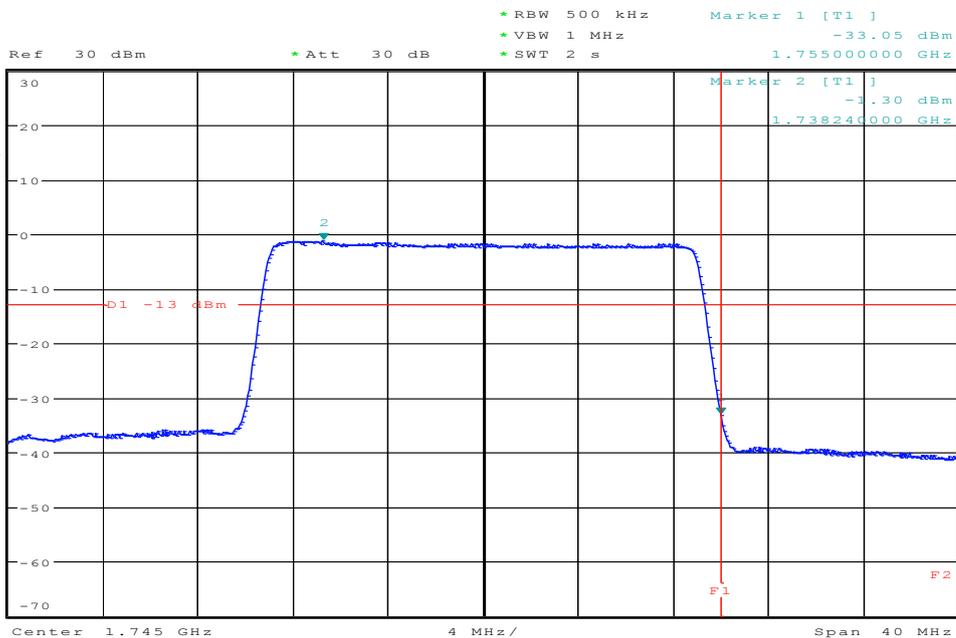
BAND4-1720MHz,Q16-100RB\_LOW@Pass



BAND4-1745MHz,QPSK-100RB\_LOW@Pass

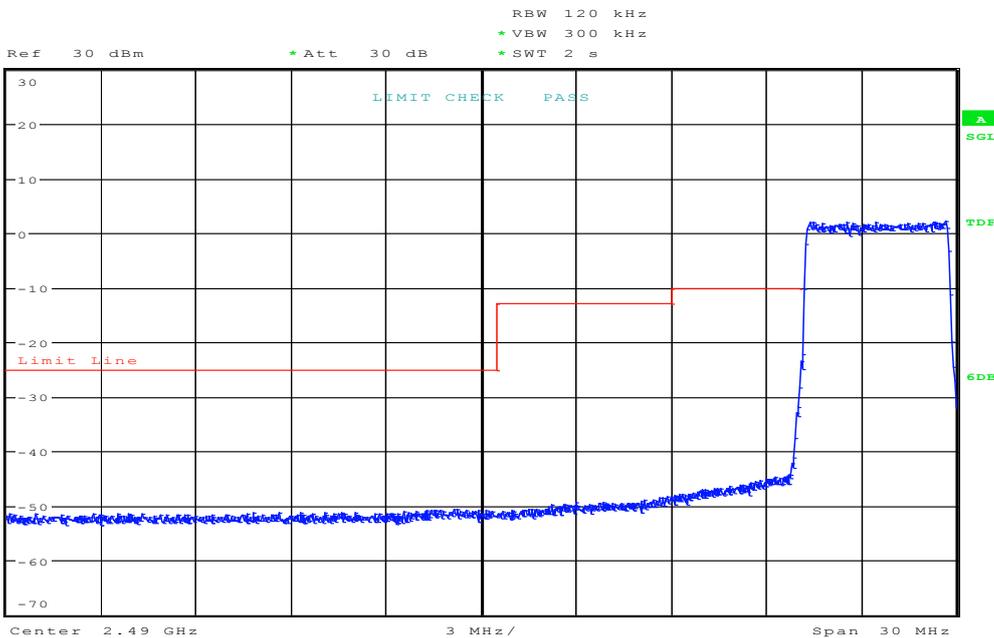


BAND4-1745MHz,Q16-100RB\_LOW@Pass

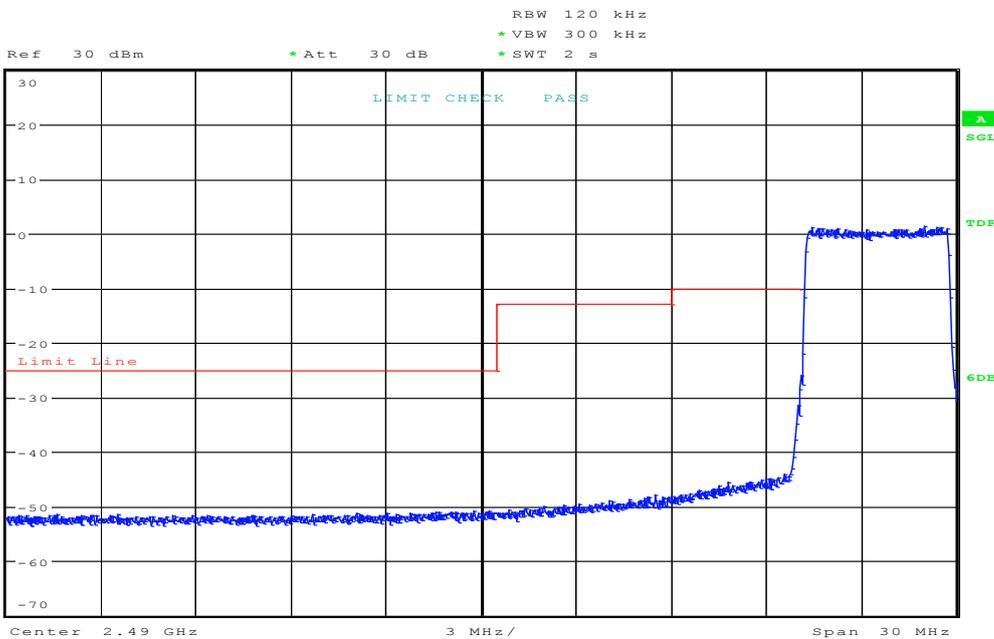


### BAND 7@Emission Mask

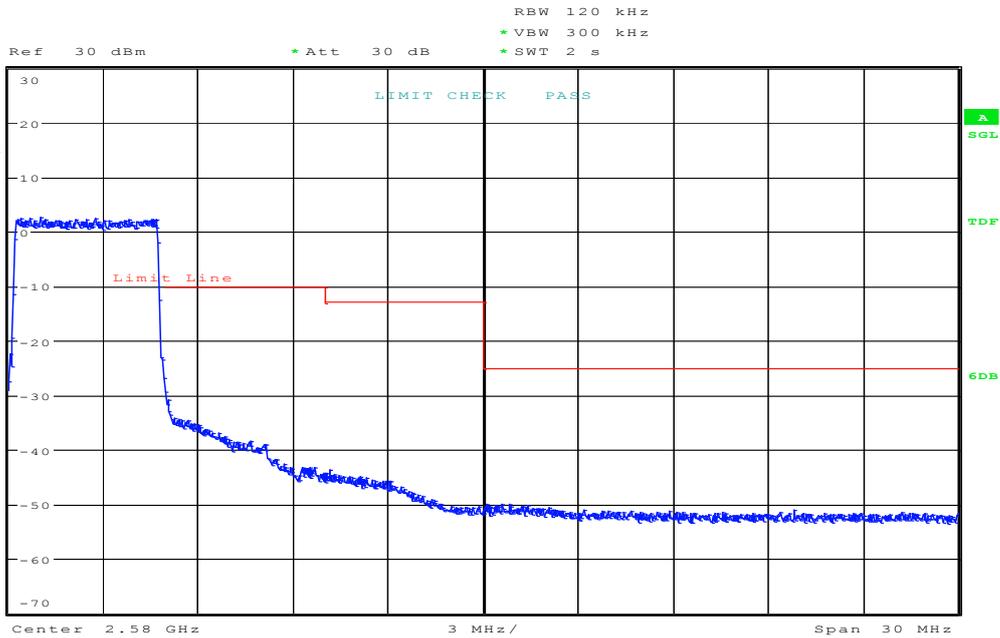
BW5MHz-2502.5MHz,QPSK-25RB\_LOW@Pass



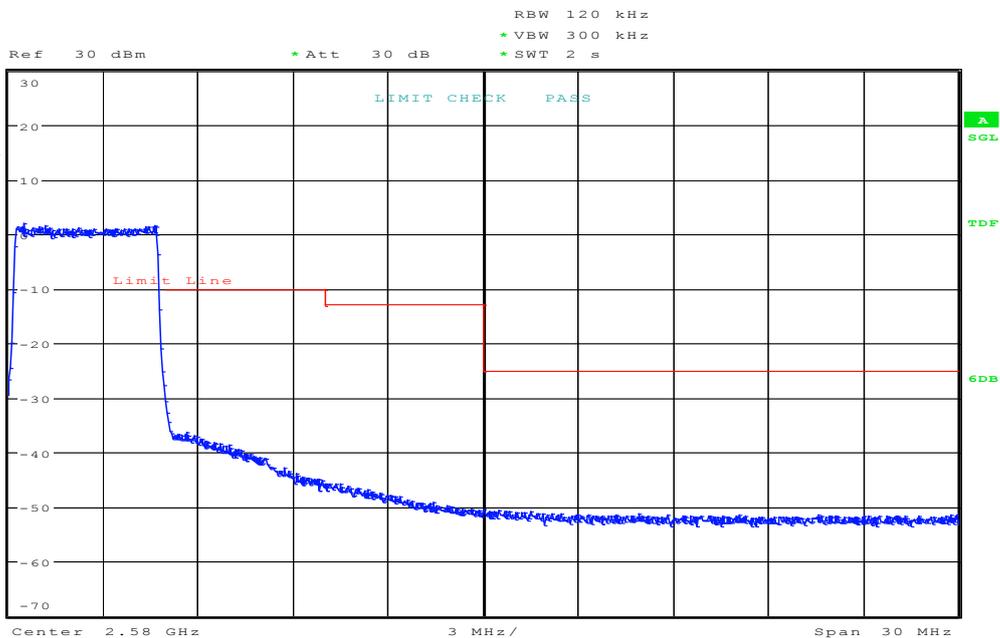
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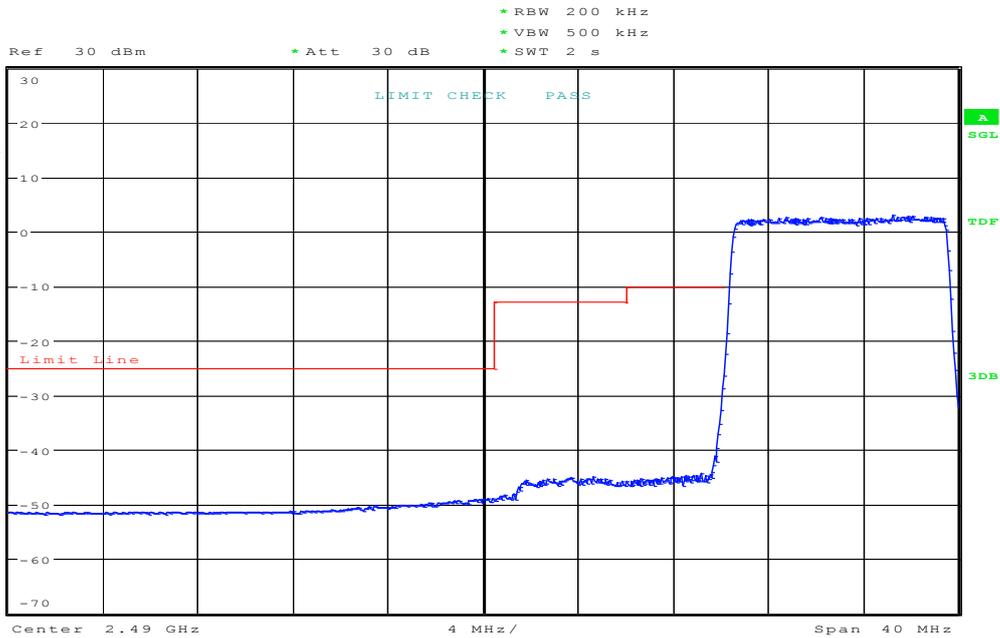
BW5MHz-2567.5MHz,QPSK-25RB\_LOW@Pass



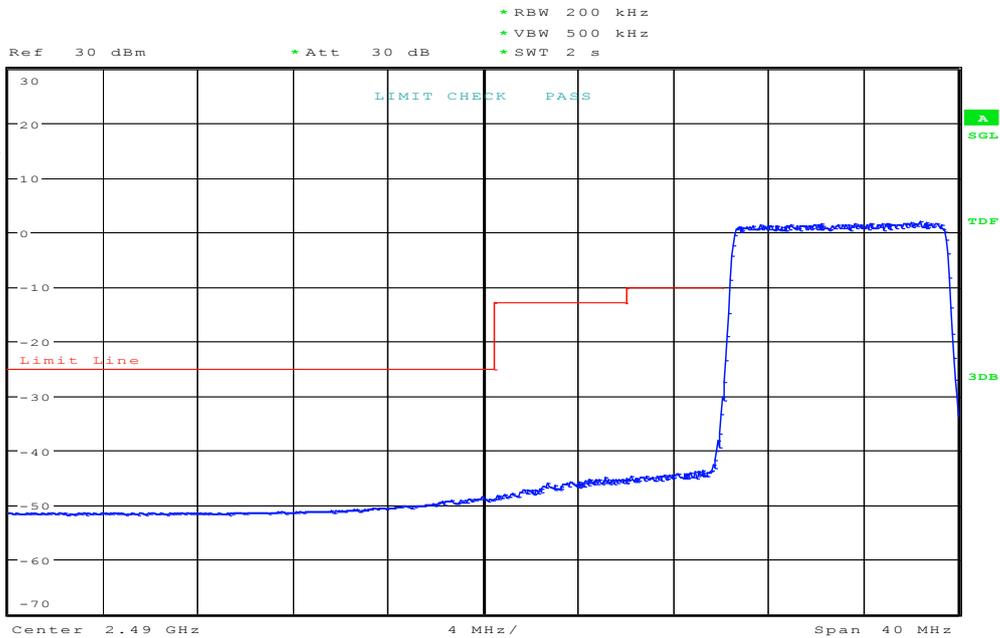
BW5MHz-2567.5MHz,Q16-25RB\_LOW@Pass



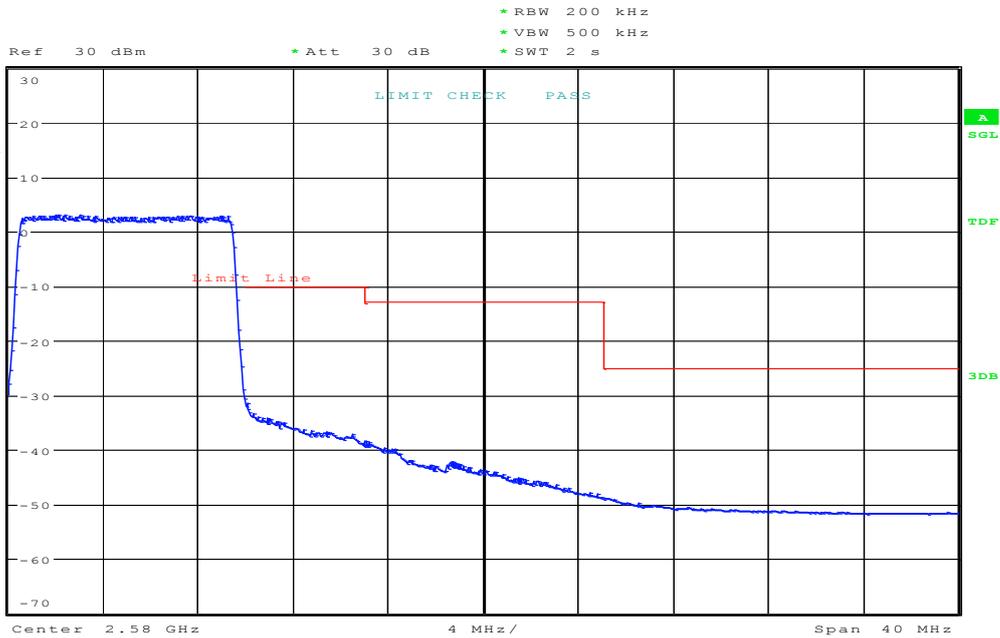
BW10MHz-2505MHz, QPSK-50RB\_LOW@Pass



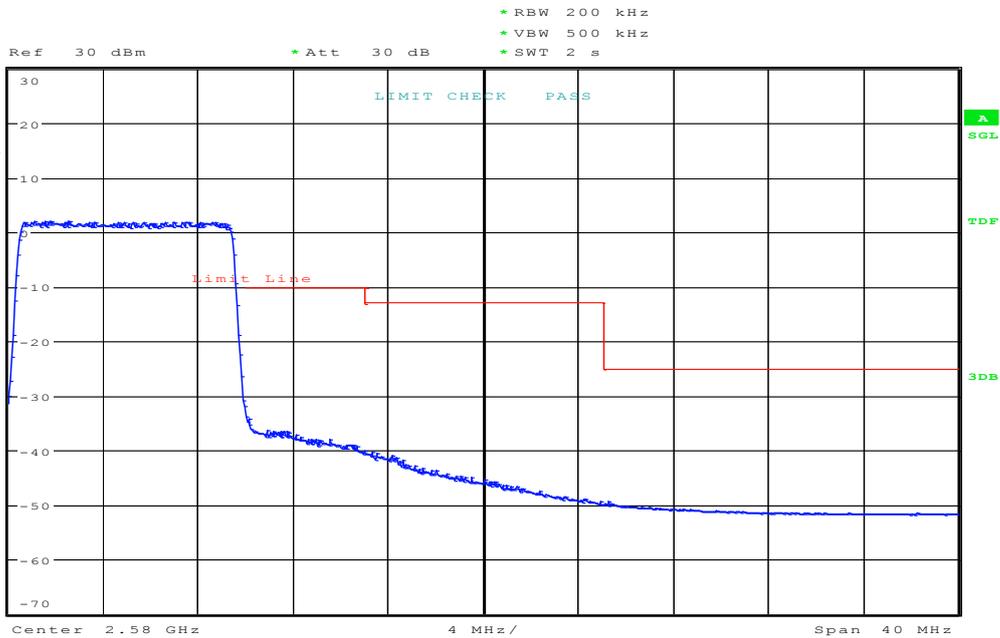
BW10MHz-2505MHz, Q16-50RB\_LOW@Pass



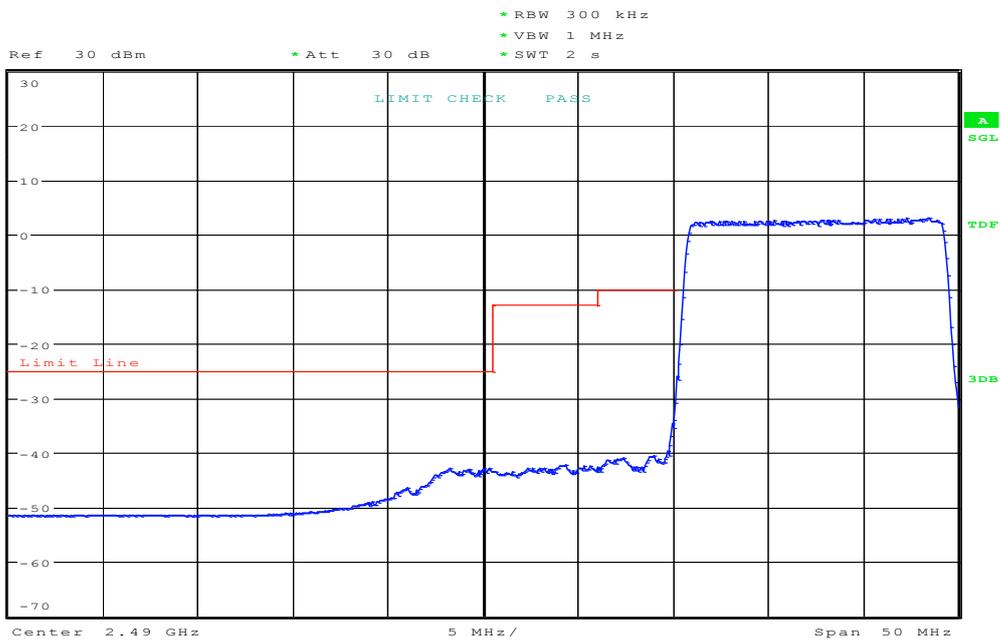
BW10MHz-2565MHz, QPSK-50RB\_LOW@Pass



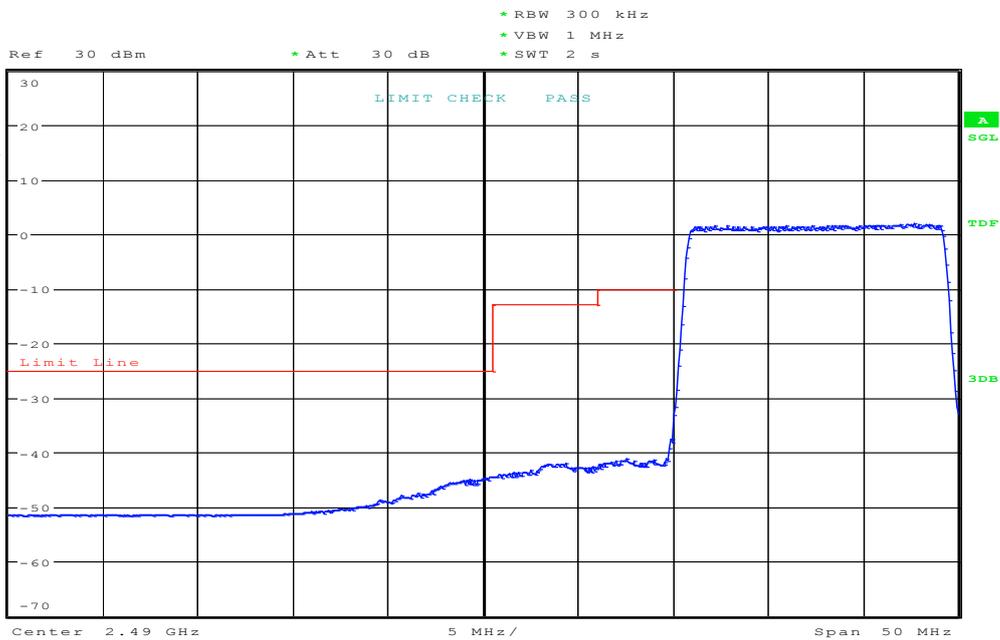
BW10MHz-2565MHz, Q16-50RB\_LOW@Pass



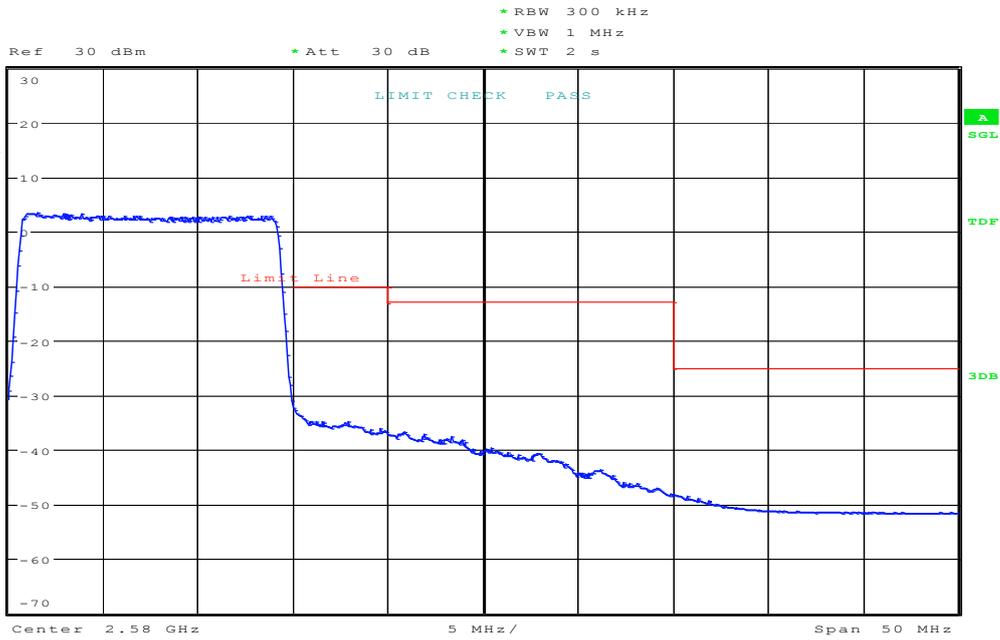
BW15MHz-2507.5MHz,QPSK-75RB\_LOW@Pass



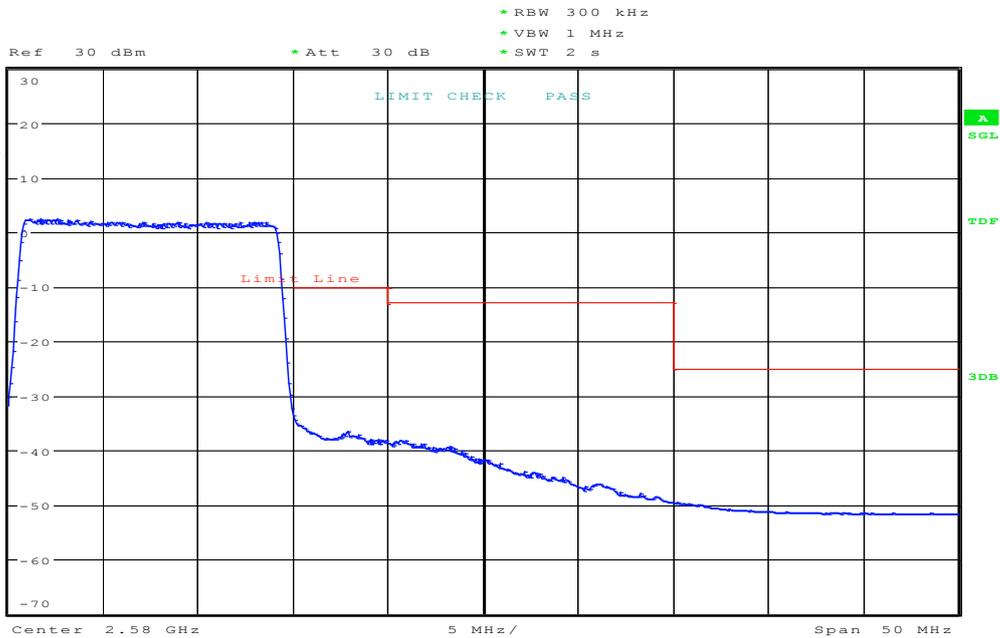
BW15MHz-2507.5MHz,Q16-75RB\_LOW@Pass



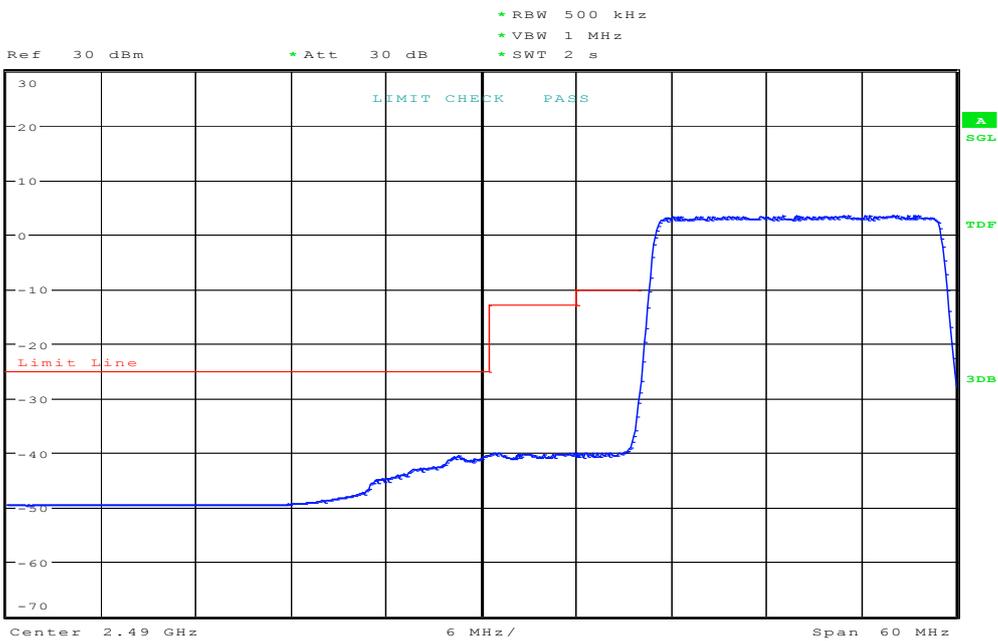
BW15MHz-2562.5MHz,QPSK-75RB\_LOW@Pass



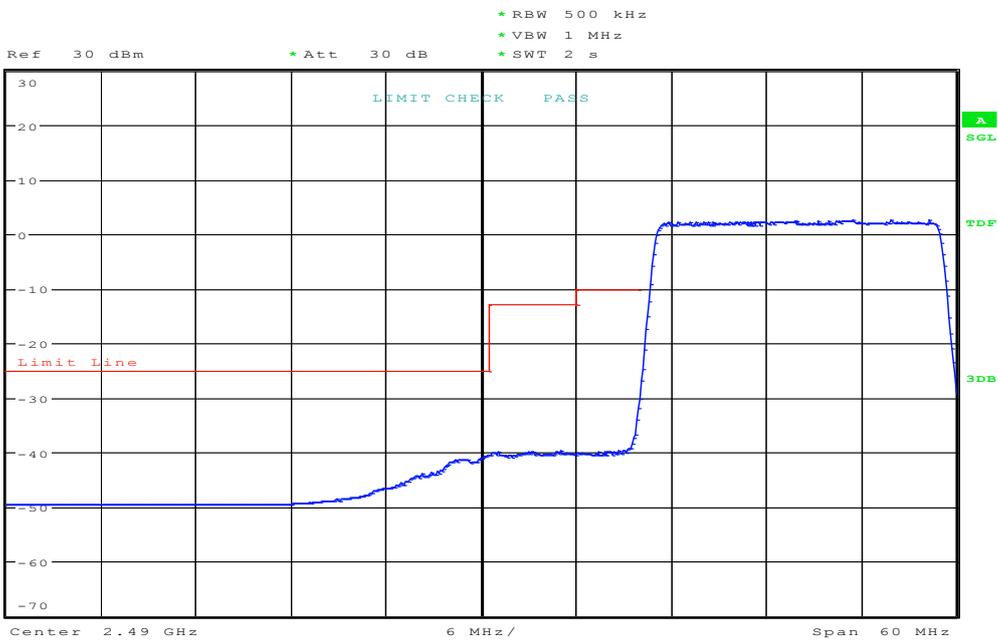
BW15MHz-2562.5MHz,Q16-75RB\_LOW@Pass



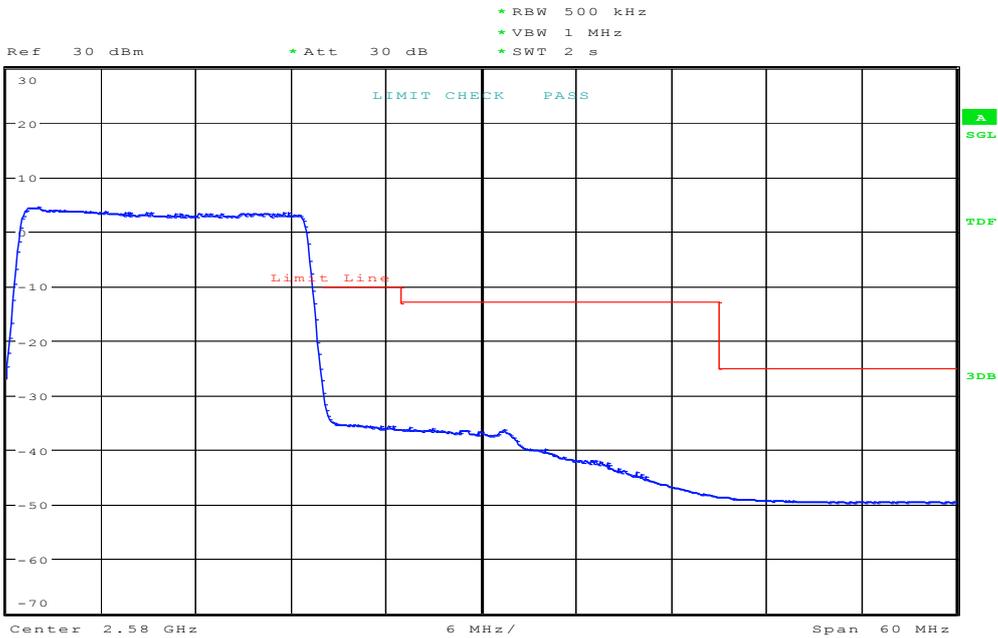
BW20MHz-2510MHz,QPSK-100RB\_LOW@Pass



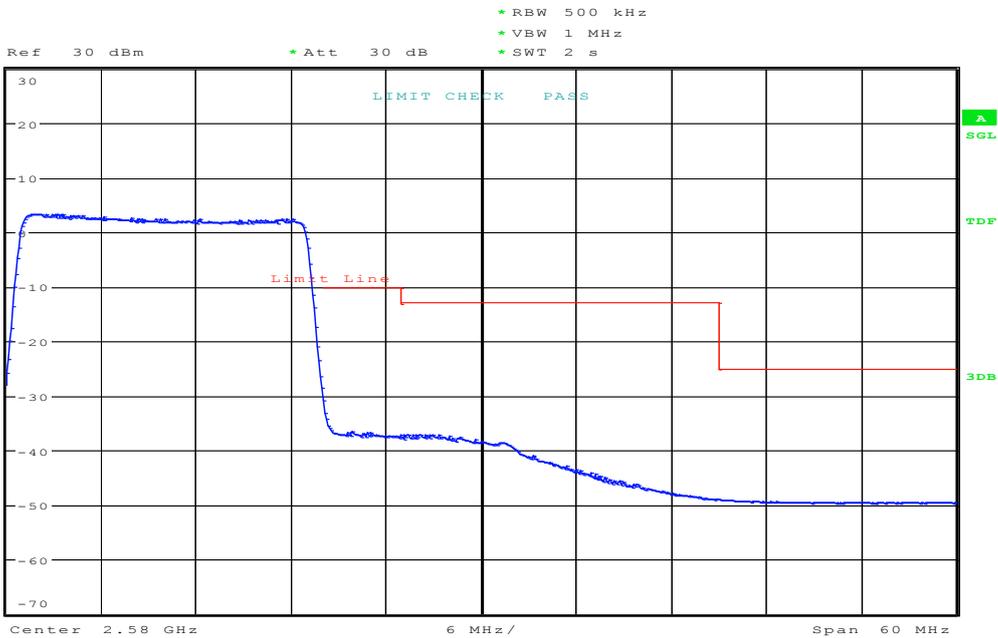
BW20MHz-2510MHz,Q16-100RB\_LOW@Pass

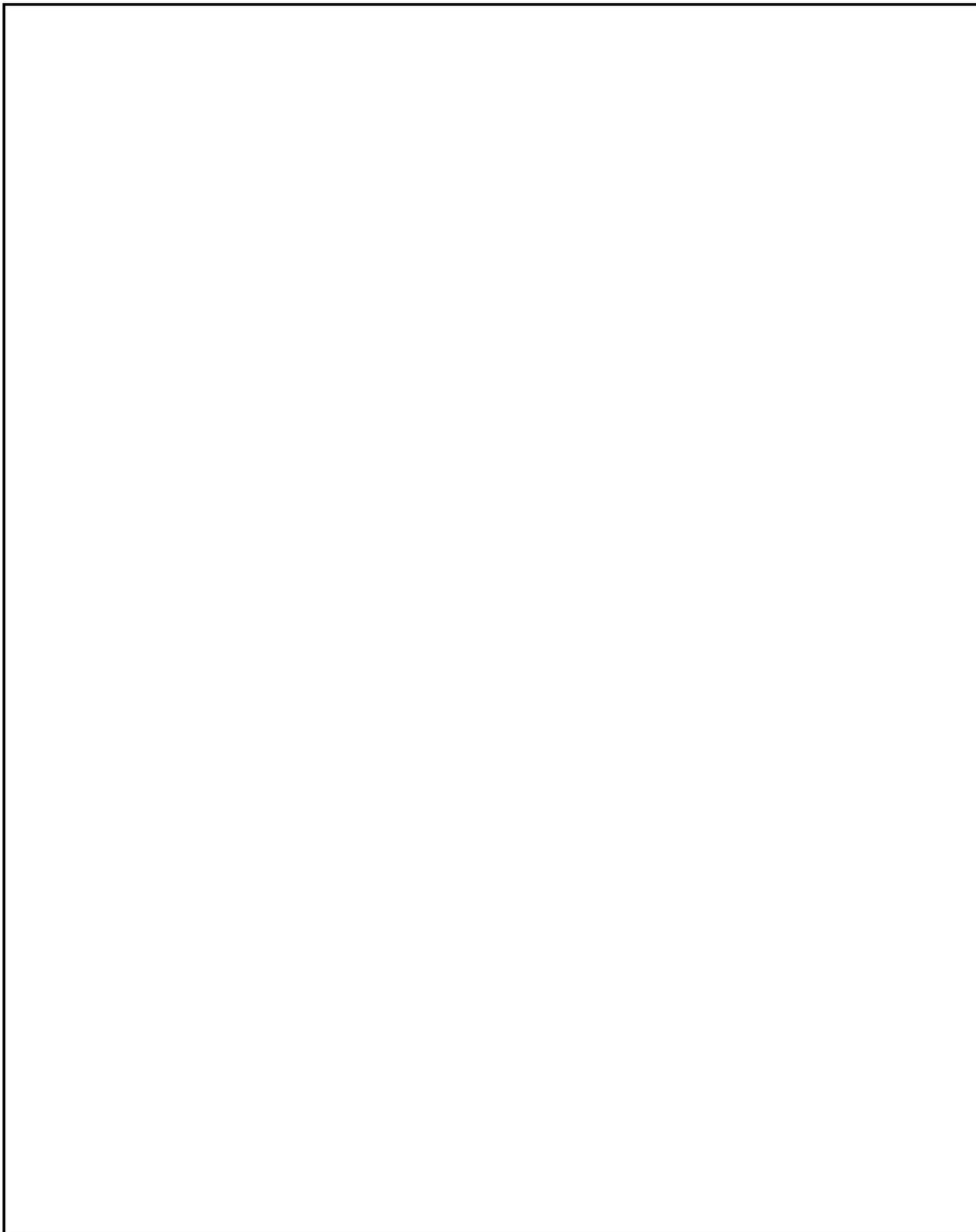


BW20MHz-2560MHz,QPSK-100RB\_LOW@Pass



BW20MHz-2560MHz,Q16-100RB\_LOW@Pass





## 2 FREQUENCY STABILITY

### 2.1 Measurement Result (Worst)

**Frequency Error against Voltage for GSM 850 band (Mid channel)**

| Voltage(V) | Frequency error(Hz) | Frequency error (ppm) |
|------------|---------------------|-----------------------|
| 3.3        | 47                  | 0.057                 |
| 3.8        | 45                  | 0.054                 |
| 4.35       | 39                  | 0.046                 |

**Frequency Error against Temperature for GSM 850 band (Mid channel)**

| Temperature(°C) | Frequency error(Hz) | Frequency error(ppm) |
|-----------------|---------------------|----------------------|
| -10             | 38                  | 0.045                |
| 0               | 39                  | 0.047                |
| 10              | 41                  | 0.049                |
| 20              | 38                  | 0.045                |
| 30              | 36                  | 0.043                |
| 40              | 44                  | 0.053                |
| 50              | 43                  | 0.051                |

**Frequency Error against Voltage for PCS 1900 band (Mid channel)**

| Voltage(V) | Frequency error(Hz) | Frequency error(ppm) |
|------------|---------------------|----------------------|
| 3.3        | 35                  | 0.019                |
| 3.8        | 38                  | 0.020                |
| 4.35       | 35                  | 0.018                |

**Frequency Error against Temperature for PCS 1900 band (Mid channel)**

| Temperature(°C) | Frequency error(Hz) | Frequency error(ppm) |
|-----------------|---------------------|----------------------|
| -10             | 33                  | 0.018                |
| 0               | 36                  | 0.019                |
| 10              | 35                  | 0.019                |
| 20              | 34                  | 0.018                |
| 30              | 36                  | 0.019                |
| 40              | 38                  | 0.020                |
| 50              | 39                  | 0.021                |

**Frequency Error against Voltage for GPRS 850 band (Mid channel)**

| Voltage(V) | Frequency error(Hz) | Frequency error (ppm) |
|------------|---------------------|-----------------------|
| 3.3        | 30                  | 0.036                 |
| 3.8        | 39                  | 0.047                 |
| 4.35       | 37                  | 0.044                 |

**Frequency Error against Temperature for GPRS 850 band (Mid channel)**

| Temperature(°C) | Frequency error(Hz) | Frequency error(ppm) |
|-----------------|---------------------|----------------------|
| -10             | 35                  | 0.042                |
| 0               | 38                  | 0.045                |
| 10              | 36                  | 0.043                |
| 20              | 37                  | 0.044                |
| 30              | 39                  | 0.047                |
| 40              | 34                  | 0.041                |
| 50              | 36                  | 0.043                |

**Frequency Error against Voltage for GPRS 1900 band (Mid channel)**

| Voltage(V) | Frequency error(Hz) | Frequency error(ppm) |
|------------|---------------------|----------------------|
| 3.3        | 29                  | 0.016                |
| 3.8        | 34                  | 0.018                |
| 4.35       | 34                  | 0.018                |

**Frequency Error against Temperature for GPRS 1900 band (Mid channel)**

| Temperature(°C) | Frequency error(Hz) | Frequency error(ppm) |
|-----------------|---------------------|----------------------|
| -10             | 32                  | 0.017                |
| 0               | 33                  | 0.018                |
| 10              | 31                  | 0.016                |
| 20              | 34                  | 0.018                |
| 30              | 35                  | 0.019                |
| 40              | 32                  | 0.017                |
| 50              | 33                  | 0.018                |

**Frequency Error against Voltage for EGPRS 850 band (Mid channel)**

| Voltage(V) | Frequency error(Hz) | Frequency error (ppm) |
|------------|---------------------|-----------------------|
| 3.3        | 37                  | 0.044                 |
| 3.8        | 38                  | 0.046                 |
| 4.35       | 38                  | 0.045                 |

**Frequency Error against Temperature for EGPRS 850 band (Mid channel)**

| Temperature(°C) | Frequency error(Hz) | Frequency error(ppm) |
|-----------------|---------------------|----------------------|
| -10             | 39                  | 0.047                |
| 0               | 35                  | 0.042                |
| 10              | 33                  | 0.039                |
| 20              | 35                  | 0.042                |
| 30              | 36                  | 0.043                |
| 40              | 37                  | 0.044                |
| 50              | 38                  | 0.045                |

**Frequency Error against Voltage for EGPRS 1900 band (Mid channel)**

| Voltage(V) | Frequency error(Hz) | Frequency error(ppm) |
|------------|---------------------|----------------------|
| 3.3        | 32                  | 0.017                |
| 3.8        | 31                  | 0.017                |
| 4.35       | 29                  | 0.016                |

**Frequency Error against Temperature for EGPRS 1900 band (Mid channel)**

| Temperature(°C) | Frequency error(Hz) | Frequency error(ppm) |
|-----------------|---------------------|----------------------|
| -10             | 35                  | 0.019                |
| 0               | 33                  | 0.018                |
| 10              | 31                  | 0.016                |
| 20              | 32                  | 0.017                |
| 30              | 35                  | 0.019                |
| 40              | 32                  | 0.017                |
| 50              | 34                  | 0.018                |

**UTRA BANDS****Frequency Error against Voltage for WCDMA BAND 2 (Mid channel)**

| Voltage(V) | Frequency error(Hz) | Frequency error (ppm) |
|------------|---------------------|-----------------------|
| 3.3        | 35                  | 0.019                 |
| 3.8        | 31                  | 0.016                 |
| 4.35       | 40                  | 0.021                 |

**Frequency Error against Temperature for WCDMA BAND 2 (Mid channel)**

| Temperature(°C) | Frequency error(Hz) | Frequency error(ppm) |
|-----------------|---------------------|----------------------|
| -10             | 39                  | 0.021                |
| 0               | 41                  | 0.022                |
| 10              | 40                  | 0.021                |
| 20              | 38                  | 0.020                |
| 30              | 39                  | 0.021                |
| 40              | 40                  | 0.021                |
| 50              | 41                  | 0.022                |

**Frequency Error against Voltage for WCDMA BAND 5 (Mid channel)**

| Voltage(V) | Frequency error(Hz) | Frequency error(ppm) |
|------------|---------------------|----------------------|
| 3.3        | 35                  | 0.042                |
| 3.8        | 31                  | 0.037                |
| 4.35       | 40                  | 0.048                |

**Frequency Error against Temperature for WCDMA BAND 5 (Mid channel)**

| Temperature(°C) | Frequency error(Hz) | Frequency error(ppm) |
|-----------------|---------------------|----------------------|
| -10             | 39                  | 0.047                |
| 0               | 42                  | 0.050                |
| 10              | 41                  | 0.049                |
| 20              | 43                  | 0.051                |
| 30              | 40                  | 0.048                |
| 40              | 39                  | 0.047                |
| 50              | 41                  | 0.049                |

**E-UTRA  
BAND 2:**

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error<br>(Hz) | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-------------------------|-----------------|
|           |            |           |            | Size | Offset |                         | (ppm)           |
| 1.4       | 18607      | 1850.7    | QPSK       | 1    | LOW    | 8.95                    | 0.0048          |
| 1.4       | 18607      | 1850.7    | QPSK       | 1    | MID    | 7.37                    | 0.0039          |
| 1.4       | 18607      | 1850.7    | QPSK       | 1    | HIGH   | 6.36                    | 0.0034          |
| 1.4       | 18607      | 1850.7    | QPSK       | 3    | LOW    | 5.81                    | 0.0031          |
| 1.4       | 18607      | 1850.7    | QPSK       | 3    | MID    | 8.44                    | 0.0045          |
| 1.4       | 18607      | 1850.7    | QPSK       | 3    | HIGH   | 8.84                    | 0.0047          |
| 1.4       | 18607      | 1850.7    | QPSK       | 6    | LOW    | 5.11                    | 0.0027          |
| 1.4       | 18607      | 1850.7    | Q16        | 1    | LOW    | 7.15                    | 0.0038          |
| 1.4       | 18607      | 1850.7    | Q16        | 1    | MID    | 6.64                    | 0.0035          |
| 1.4       | 18607      | 1850.7    | Q16        | 1    | HIGH   | 8.98                    | 0.0048          |
| 1.4       | 18607      | 1850.7    | Q16        | 3    | LOW    | 9.03                    | 0.0048          |
| 1.4       | 18607      | 1850.7    | Q16        | 3    | MID    | 7.39                    | 0.0039          |
| 1.4       | 18607      | 1850.7    | Q16        | 3    | HIGH   | 8.44                    | 0.0045          |
| 1.4       | 18607      | 1850.7    | Q16        | 6    | LOW    | 6.58                    | 0.0035          |
| 1.4       | 18900      | 1880      | QPSK       | 1    | LOW    | 9.74                    | 0.0051          |
| 1.4       | 18900      | 1880      | QPSK       | 1    | MID    | 8.45                    | 0.0044          |
| 1.4       | 18900      | 1880      | QPSK       | 1    | HIGH   | 5.94                    | 0.0031          |
| 1.4       | 18900      | 1880      | QPSK       | 3    | LOW    | 8.62                    | 0.0045          |
| 1.4       | 18900      | 1880      | QPSK       | 3    | MID    | 9.55                    | 0.0050          |
| 1.4       | 18900      | 1880      | QPSK       | 3    | HIGH   | 8.26                    | 0.0043          |
| 1.4       | 18900      | 1880      | QPSK       | 6    | LOW    | 5.95                    | 0.0031          |
| 1.4       | 18900      | 1880      | Q16        | 1    | LOW    | 8.29                    | 0.0044          |
| 1.4       | 18900      | 1880      | Q16        | 1    | MID    | 9.64                    | 0.0051          |
| 1.4       | 18900      | 1880      | Q16        | 1    | HIGH   | 6.69                    | 0.0035          |
| 1.4       | 18900      | 1880      | Q16        | 3    | LOW    | 7.41                    | 0.0039          |
| 1.4       | 18900      | 1880      | Q16        | 3    | MID    | 7.43                    | 0.0039          |
| 1.4       | 18900      | 1880      | Q16        | 3    | HIGH   | 9.64                    | 0.0051          |
| 1.4       | 18900      | 1880      | Q16        | 6    | LOW    | 8.77                    | 0.0046          |
| 1.4       | 19193      | 1909.3    | QPSK       | 1    | LOW    | 9.17                    | 0.0048          |
| 1.4       | 19193      | 1909.3    | QPSK       | 1    | MID    | 5.52                    | 0.0028          |
| 1.4       | 19193      | 1909.3    | QPSK       | 1    | HIGH   | 5.64                    | 0.0029          |
| 1.4       | 19193      | 1909.3    | QPSK       | 3    | LOW    | 9.17                    | 0.0048          |
| 1.4       | 19193      | 1909.3    | QPSK       | 3    | MID    | 5.28                    | 0.0027          |
| 1.4       | 19193      | 1909.3    | QPSK       | 3    | HIGH   | 7.03                    | 0.0036          |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error (Hz) | Frequency Error (ppm) |
|-----------|------------|-----------|------------|------|--------|----------------------|-----------------------|
|           |            |           |            | Size | Offset |                      |                       |
| 1.4       | 19193      | 1909.3    | QPSK       | 6    | LOW    | 8.3                  | 0.0043                |
| 1.4       | 19193      | 1909.3    | Q16        | 1    | LOW    | 7.15                 | 0.0037                |
| 1.4       | 19193      | 1909.3    | Q16        | 1    | MID    | 5.62                 | 0.0029                |
| 1.4       | 19193      | 1909.3    | Q16        | 1    | HIGH   | 6.81                 | 0.0035                |
| 1.4       | 19193      | 1909.3    | Q16        | 3    | LOW    | 6.29                 | 0.0032                |
| 1.4       | 19193      | 1909.3    | Q16        | 3    | MID    | 7.65                 | 0.0040                |
| 1.4       | 19193      | 1909.3    | Q16        | 3    | HIGH   | 5.49                 | 0.0028                |
| 1.4       | 19193      | 1909.3    | Q16        | 6    | LOW    | 7.36                 | 0.0038                |
| 3         | 18615      | 1851.5    | QPSK       | 1    | LOW    | 8.39                 | 0.0045                |
| 3         | 18615      | 1851.5    | QPSK       | 1    | MID    | 8.53                 | 0.0046                |
| 3         | 18615      | 1851.5    | QPSK       | 1    | HIGH   | 6.24                 | 0.0033                |
| 3         | 18615      | 1851.5    | QPSK       | 8    | LOW    | 7.86                 | 0.0042                |
| 3         | 18615      | 1851.5    | QPSK       | 8    | MID    | 7.63                 | 0.0041                |
| 3         | 18615      | 1851.5    | QPSK       | 8    | HIGH   | 8.65                 | 0.0046                |
| 3         | 18615      | 1851.5    | QPSK       | 15   | LOW    | 8.61                 | 0.0046                |
| 3         | 18615      | 1851.5    | Q16        | 1    | LOW    | 7.5                  | 0.0040                |
| 3         | 18615      | 1851.5    | Q16        | 1    | MID    | 9.51                 | 0.0051                |
| 3         | 18615      | 1851.5    | Q16        | 1    | HIGH   | 7.5                  | 0.0040                |
| 3         | 18615      | 1851.5    | Q16        | 8    | LOW    | 9.67                 | 0.0052                |
| 3         | 18615      | 1851.5    | Q16        | 8    | MID    | 9.75                 | 0.0052                |
| 3         | 18615      | 1851.5    | Q16        | 8    | HIGH   | 5.53                 | 0.0029                |
| 3         | 18615      | 1851.5    | Q16        | 15   | LOW    | 9.97                 | 0.0053                |
| 3         | 18900      | 1880      | QPSK       | 1    | LOW    | 8.61                 | 0.0045                |
| 3         | 18900      | 1880      | QPSK       | 1    | MID    | 7.08                 | 0.0037                |
| 3         | 18900      | 1880      | QPSK       | 1    | HIGH   | 7.92                 | 0.0042                |
| 3         | 18900      | 1880      | QPSK       | 8    | LOW    | 8                    | 0.0042                |
| 3         | 18900      | 1880      | QPSK       | 8    | MID    | 9.52                 | 0.0050                |
| 3         | 18900      | 1880      | QPSK       | 8    | HIGH   | 5.94                 | 0.0031                |
| 3         | 18900      | 1880      | QPSK       | 15   | LOW    | 6.95                 | 0.0036                |
| 3         | 18900      | 1880      | Q16        | 1    | LOW    | 6.34                 | 0.0033                |
| 3         | 18900      | 1880      | Q16        | 1    | MID    | 8.32                 | 0.0044                |
| 3         | 18900      | 1880      | Q16        | 1    | HIGH   | 8.35                 | 0.0044                |
| 3         | 18900      | 1880      | Q16        | 8    | LOW    | 6.69                 | 0.0035                |
| 3         | 18900      | 1880      | Q16        | 8    | MID    | 9.41                 | 0.0050                |
| 3         | 18900      | 1880      | Q16        | 8    | HIGH   | 7.41                 | 0.0039                |
| 3         | 18900      | 1880      | Q16        | 15   | LOW    | 7.87                 | 0.0041                |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error (Hz) | Frequency Error (ppm) |
|-----------|------------|-----------|------------|------|--------|----------------------|-----------------------|
|           |            |           |            | Size | Offset |                      |                       |
| 3         | 19185      | 1908.5    | QPSK       | 1    | LOW    | 5.67                 | 0.0029                |
| 3         | 19185      | 1908.5    | QPSK       | 1    | MID    | 6.55                 | 0.0034                |
| 3         | 19185      | 1908.5    | QPSK       | 1    | HIGH   | 9.47                 | 0.0049                |
| 3         | 19185      | 1908.5    | QPSK       | 8    | LOW    | 8.84                 | 0.0046                |
| 3         | 19185      | 1908.5    | QPSK       | 8    | MID    | 8.27                 | 0.0043                |
| 3         | 19185      | 1908.5    | QPSK       | 8    | HIGH   | 9                    | 0.0047                |
| 3         | 19185      | 1908.5    | QPSK       | 15   | LOW    | 7.61                 | 0.0039                |
| 3         | 19185      | 1908.5    | Q16        | 1    | LOW    | 9.3                  | 0.0048                |
| 3         | 19185      | 1908.5    | Q16        | 1    | MID    | 7.29                 | 0.0038                |
| 3         | 19185      | 1908.5    | Q16        | 1    | HIGH   | 9.51                 | 0.0049                |
| 3         | 19185      | 1908.5    | Q16        | 8    | LOW    | 5.28                 | 0.0027                |
| 3         | 19185      | 1908.5    | Q16        | 8    | MID    | 7.57                 | 0.0039                |
| 3         | 19185      | 1908.5    | Q16        | 8    | HIGH   | 8.7                  | 0.0045                |
| 3         | 19185      | 1908.5    | Q16        | 15   | LOW    | 9.75                 | 0.0051                |
| 5         | 18625      | 1852.5    | QPSK       | 1    | LOW    | 9.29                 | 0.0050                |
| 5         | 18625      | 1852.5    | QPSK       | 1    | MID    | 8.72                 | 0.0047                |
| 5         | 18625      | 1852.5    | QPSK       | 1    | HIGH   | 8.81                 | 0.0047                |
| 5         | 18625      | 1852.5    | QPSK       | 12   | LOW    | 7.2                  | 0.0038                |
| 5         | 18625      | 1852.5    | QPSK       | 12   | MID    | 8.45                 | 0.0045                |
| 5         | 18625      | 1852.5    | QPSK       | 12   | HIGH   | 6.2                  | 0.0033                |
| 5         | 18625      | 1852.5    | QPSK       | 25   | LOW    | 8.01                 | 0.0043                |
| 5         | 18625      | 1852.5    | Q16        | 1    | LOW    | 9.8                  | 0.0052                |
| 5         | 18625      | 1852.5    | Q16        | 1    | MID    | 6.64                 | 0.0035                |
| 5         | 18625      | 1852.5    | Q16        | 1    | HIGH   | 9.5                  | 0.0051                |
| 5         | 18625      | 1852.5    | Q16        | 12   | LOW    | 7.83                 | 0.0042                |
| 5         | 18625      | 1852.5    | Q16        | 12   | MID    | 9.57                 | 0.0051                |
| 5         | 18625      | 1852.5    | Q16        | 12   | HIGH   | 5.84                 | 0.0031                |
| 5         | 18625      | 1852.5    | Q16        | 25   | LOW    | 9.81                 | 0.0052                |
| 5         | 18900      | 1880      | QPSK       | 1    | LOW    | 7.5                  | 0.0039                |
| 5         | 18900      | 1880      | QPSK       | 1    | MID    | 8.84                 | 0.0047                |
| 5         | 18900      | 1880      | QPSK       | 1    | HIGH   | 5.83                 | 0.0031                |
| 5         | 18900      | 1880      | QPSK       | 12   | LOW    | 7.97                 | 0.0042                |
| 5         | 18900      | 1880      | QPSK       | 12   | MID    | 6.5                  | 0.0034                |
| 5         | 18900      | 1880      | QPSK       | 12   | HIGH   | 7.44                 | 0.0039                |
| 5         | 18900      | 1880      | QPSK       | 25   | LOW    | 6.11                 | 0.0032                |
| 5         | 18900      | 1880      | Q16        | 1    | LOW    | 9.65                 | 0.0051                |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error (Hz) | Frequency Error (ppm) |
|-----------|------------|-----------|------------|------|--------|----------------------|-----------------------|
|           |            |           |            | Size | Offset |                      |                       |
| 5         | 18900      | 1880      | Q16        | 1    | MID    | 8.48                 | 0.0045                |
| 5         | 18900      | 1880      | Q16        | 1    | HIGH   | 9.92                 | 0.0052                |
| 5         | 18900      | 1880      | Q16        | 12   | LOW    | 6.62                 | 0.0035                |
| 5         | 18900      | 1880      | Q16        | 12   | MID    | 5.21                 | 0.0027                |
| 5         | 18900      | 1880      | Q16        | 12   | HIGH   | 7.89                 | 0.0041                |
| 5         | 18900      | 1880      | Q16        | 25   | LOW    | 9.35                 | 0.0049                |
| 5         | 19175      | 1907.5    | QPSK       | 1    | LOW    | 9.54                 | 0.0050                |
| 5         | 19175      | 1907.5    | QPSK       | 1    | MID    | 6.91                 | 0.0036                |
| 5         | 19175      | 1907.5    | QPSK       | 1    | HIGH   | 6.2                  | 0.0032                |
| 5         | 19175      | 1907.5    | QPSK       | 12   | LOW    | 5.73                 | 0.0030                |
| 5         | 19175      | 1907.5    | QPSK       | 12   | MID    | 8.17                 | 0.0042                |
| 5         | 19175      | 1907.5    | QPSK       | 12   | HIGH   | 9.48                 | 0.0049                |
| 5         | 19175      | 1907.5    | QPSK       | 25   | LOW    | 9.69                 | 0.0050                |
| 5         | 19175      | 1907.5    | Q16        | 1    | LOW    | 8.32                 | 0.0043                |
| 5         | 19175      | 1907.5    | Q16        | 1    | MID    | 9.34                 | 0.0048                |
| 5         | 19175      | 1907.5    | Q16        | 1    | HIGH   | 7.09                 | 0.0037                |
| 5         | 19175      | 1907.5    | Q16        | 12   | LOW    | 7.01                 | 0.0036                |
| 5         | 19175      | 1907.5    | Q16        | 12   | MID    | 5.47                 | 0.0028                |
| 5         | 19175      | 1907.5    | Q16        | 12   | HIGH   | 5                    | 0.0026                |
| 5         | 19175      | 1907.5    | Q16        | 25   | LOW    | 9.53                 | 0.0049                |
| 10        | 18650      | 1855      | QPSK       | 1    | LOW    | 7.87                 | 0.0042                |
| 10        | 18650      | 1855      | QPSK       | 1    | MID    | 6.95                 | 0.0037                |
| 10        | 18650      | 1855      | QPSK       | 1    | HIGH   | 6.33                 | 0.0034                |
| 10        | 18650      | 1855      | QPSK       | 25   | LOW    | 8.3                  | 0.0044                |
| 10        | 18650      | 1855      | QPSK       | 25   | MID    | 5.32                 | 0.0028                |
| 10        | 18650      | 1855      | QPSK       | 25   | HIGH   | 9.95                 | 0.0053                |
| 10        | 18650      | 1855      | QPSK       | 50   | LOW    | 9.41                 | 0.0050                |
| 10        | 18650      | 1855      | Q16        | 1    | LOW    | 5.41                 | 0.0029                |
| 10        | 18650      | 1855      | Q16        | 1    | MID    | 9.99                 | 0.0053                |
| 10        | 18650      | 1855      | Q16        | 1    | HIGH   | 9.98                 | 0.0053                |
| 10        | 18650      | 1855      | Q16        | 25   | LOW    | 6.71                 | 0.0036                |
| 10        | 18650      | 1855      | Q16        | 25   | MID    | 5.86                 | 0.0031                |
| 10        | 18650      | 1855      | Q16        | 25   | HIGH   | 5.41                 | 0.0029                |
| 10        | 18650      | 1855      | Q16        | 50   | LOW    | 9.29                 | 0.0050                |
| 10        | 18900      | 1880      | QPSK       | 1    | LOW    | 7.92                 | 0.0042                |
| 10        | 18900      | 1880      | QPSK       | 1    | MID    | 9.5                  | 0.0050                |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error (Hz) | Frequency Error (ppm) |
|-----------|------------|-----------|------------|------|--------|----------------------|-----------------------|
|           |            |           |            | Size | Offset |                      |                       |
| 10        | 18900      | 1880      | QPSK       | 1    | HIGH   | 5.07                 | 0.0026                |
| 10        | 18900      | 1880      | QPSK       | 25   | LOW    | 8.6                  | 0.0045                |
| 10        | 18900      | 1880      | QPSK       | 25   | MID    | 5.7                  | 0.0030                |
| 10        | 18900      | 1880      | QPSK       | 25   | HIGH   | 7.97                 | 0.0042                |
| 10        | 18900      | 1880      | QPSK       | 50   | LOW    | 9.58                 | 0.0050                |
| 10        | 18900      | 1880      | Q16        | 1    | LOW    | 9.78                 | 0.0052                |
| 10        | 18900      | 1880      | Q16        | 1    | MID    | 6.65                 | 0.0035                |
| 10        | 18900      | 1880      | Q16        | 1    | HIGH   | 5.01                 | 0.0026                |
| 10        | 18900      | 1880      | Q16        | 25   | LOW    | 8.51                 | 0.0045                |
| 10        | 18900      | 1880      | Q16        | 25   | MID    | 6.86                 | 0.0036                |
| 10        | 18900      | 1880      | Q16        | 25   | HIGH   | 6.97                 | 0.0037                |
| 10        | 18900      | 1880      | Q16        | 50   | LOW    | 9.87                 | 0.0052                |
| 10        | 19150      | 1905      | QPSK       | 1    | LOW    | 8.92                 | 0.0046                |
| 10        | 19150      | 1905      | QPSK       | 1    | MID    | 7.13                 | 0.0037                |
| 10        | 19150      | 1905      | QPSK       | 1    | HIGH   | 8.49                 | 0.0044                |
| 10        | 19150      | 1905      | QPSK       | 25   | LOW    | 7.39                 | 0.0038                |
| 10        | 19150      | 1905      | QPSK       | 25   | MID    | 6.45                 | 0.0033                |
| 10        | 19150      | 1905      | QPSK       | 25   | HIGH   | 6.69                 | 0.0035                |
| 10        | 19150      | 1905      | QPSK       | 50   | LOW    | 9.78                 | 0.0051                |
| 10        | 19150      | 1905      | Q16        | 1    | LOW    | 5.56                 | 0.0029                |
| 10        | 19150      | 1905      | Q16        | 1    | MID    | 8.52                 | 0.0044                |
| 10        | 19150      | 1905      | Q16        | 1    | HIGH   | 8.7                  | 0.0045                |
| 10        | 19150      | 1905      | Q16        | 25   | LOW    | 8.9                  | 0.0046                |
| 10        | 19150      | 1905      | Q16        | 25   | MID    | 8.41                 | 0.0044                |
| 10        | 19150      | 1905      | Q16        | 25   | HIGH   | 5.97                 | 0.0031                |
| 10        | 19150      | 1905      | Q16        | 50   | LOW    | 7.93                 | 0.0041                |
| 15        | 18675      | 1857.5    | QPSK       | 1    | LOW    | 7.4                  | 0.0039                |
| 15        | 18675      | 1857.5    | QPSK       | 1    | MID    | 6.99                 | 0.0037                |
| 15        | 18675      | 1857.5    | QPSK       | 1    | HIGH   | 8.98                 | 0.0048                |
| 15        | 18675      | 1857.5    | QPSK       | 36   | LOW    | 7.67                 | 0.0041                |
| 15        | 18675      | 1857.5    | QPSK       | 36   | MID    | 6.27                 | 0.0033                |
| 15        | 18675      | 1857.5    | QPSK       | 36   | HIGH   | 7.63                 | 0.0041                |
| 15        | 18675      | 1857.5    | QPSK       | 75   | LOW    | 7.11                 | 0.0038                |
| 15        | 18675      | 1857.5    | Q16        | 1    | LOW    | 5.18                 | 0.0027                |
| 15        | 18675      | 1857.5    | Q16        | 1    | MID    | 8.36                 | 0.0045                |
| 15        | 18675      | 1857.5    | Q16        | 1    | HIGH   | 6.49                 | 0.0034                |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error (Hz) | Frequency Error (ppm) |
|-----------|------------|-----------|------------|------|--------|----------------------|-----------------------|
|           |            |           |            | Size | Offset |                      |                       |
| 15        | 18675      | 1857.5    | Q16        | 36   | LOW    | 8.16                 | 0.0043                |
| 15        | 18675      | 1857.5    | Q16        | 36   | MID    | 9.53                 | 0.0051                |
| 15        | 18675      | 1857.5    | Q16        | 36   | HIGH   | 5.1                  | 0.0027                |
| 15        | 18675      | 1857.5    | Q16        | 75   | LOW    | 5.83                 | 0.0031                |
| 15        | 18900      | 1880      | QPSK       | 1    | LOW    | 7.63                 | 0.0040                |
| 15        | 18900      | 1880      | QPSK       | 1    | MID    | 6.49                 | 0.0034                |
| 15        | 18900      | 1880      | QPSK       | 1    | HIGH   | 8.28                 | 0.0044                |
| 15        | 18900      | 1880      | QPSK       | 36   | LOW    | 7.05                 | 0.0037                |
| 15        | 18900      | 1880      | QPSK       | 36   | MID    | 6.09                 | 0.0032                |
| 15        | 18900      | 1880      | QPSK       | 36   | HIGH   | 7.09                 | 0.0037                |
| 15        | 18900      | 1880      | QPSK       | 75   | LOW    | 5                    | 0.0026                |
| 15        | 18900      | 1880      | Q16        | 1    | LOW    | 5.8                  | 0.0030                |
| 15        | 18900      | 1880      | Q16        | 1    | MID    | 6.95                 | 0.0036                |
| 15        | 18900      | 1880      | Q16        | 1    | HIGH   | 7.22                 | 0.0038                |
| 15        | 18900      | 1880      | Q16        | 36   | LOW    | 7.13                 | 0.0037                |
| 15        | 18900      | 1880      | Q16        | 36   | MID    | 6.14                 | 0.0032                |
| 15        | 18900      | 1880      | Q16        | 36   | HIGH   | 7.91                 | 0.0042                |
| 15        | 18900      | 1880      | Q16        | 75   | LOW    | 7.76                 | 0.0041                |
| 15        | 19125      | 1902.5    | QPSK       | 1    | LOW    | 6.36                 | 0.0033                |
| 15        | 19125      | 1902.5    | QPSK       | 1    | MID    | 8.59                 | 0.0045                |
| 15        | 19125      | 1902.5    | QPSK       | 1    | HIGH   | 7.51                 | 0.0039                |
| 15        | 19125      | 1902.5    | QPSK       | 36   | LOW    | 5.05                 | 0.0026                |
| 15        | 19125      | 1902.5    | QPSK       | 36   | MID    | 9.1                  | 0.0047                |
| 15        | 19125      | 1902.5    | QPSK       | 36   | HIGH   | 7.13                 | 0.0037                |
| 15        | 19125      | 1902.5    | QPSK       | 75   | LOW    | 9.85                 | 0.0051                |
| 15        | 19125      | 1902.5    | Q16        | 1    | LOW    | 8.06                 | 0.0042                |
| 15        | 19125      | 1902.5    | Q16        | 1    | MID    | 5.18                 | 0.0027                |
| 15        | 19125      | 1902.5    | Q16        | 1    | HIGH   | 9.99                 | 0.0052                |
| 15        | 19125      | 1902.5    | Q16        | 36   | LOW    | 9.3                  | 0.0048                |
| 15        | 19125      | 1902.5    | Q16        | 36   | MID    | 5.9                  | 0.0031                |
| 15        | 19125      | 1902.5    | Q16        | 36   | HIGH   | 9.2                  | 0.0048                |
| 15        | 19125      | 1902.5    | Q16        | 75   | LOW    | 5.94                 | 0.0031                |
| 20        | 18700      | 1860      | QPSK       | 1    | LOW    | 5.69                 | 0.0030                |
| 20        | 18700      | 1860      | QPSK       | 1    | MID    | 8.24                 | 0.0044                |
| 20        | 18700      | 1860      | QPSK       | 1    | HIGH   | 6.67                 | 0.0035                |
| 20        | 18700      | 1860      | QPSK       | 50   | LOW    | 9.59                 | 0.0051                |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error (Hz) | Frequency Error (ppm) |
|-----------|------------|-----------|------------|------|--------|----------------------|-----------------------|
|           |            |           |            | Size | Offset |                      |                       |
| 20        | 18700      | 1860      | QPSK       | 50   | MID    | 8.87                 | 0.0047                |
| 20        | 18700      | 1860      | QPSK       | 50   | HIGH   | 7.7                  | 0.0041                |
| 20        | 18700      | 1860      | QPSK       | 100  | LOW    | 7.31                 | 0.0039                |
| 20        | 18700      | 1860      | Q16        | 1    | LOW    | 7.37                 | 0.0039                |
| 20        | 18700      | 1860      | Q16        | 1    | MID    | 6.22                 | 0.0033                |
| 20        | 18700      | 1860      | Q16        | 1    | HIGH   | 9.51                 | 0.0051                |
| 20        | 18700      | 1860      | Q16        | 50   | LOW    | 5.56                 | 0.0029                |
| 20        | 18700      | 1860      | Q16        | 50   | MID    | 8.14                 | 0.0043                |
| 20        | 18700      | 1860      | Q16        | 50   | HIGH   | 7.21                 | 0.0038                |
| 20        | 18700      | 1860      | Q16        | 100  | LOW    | 5.87                 | 0.0031                |
| 20        | 18900      | 1880      | QPSK       | 1    | LOW    | 6.25                 | 0.0033                |
| 20        | 18900      | 1880      | QPSK       | 1    | MID    | 9.54                 | 0.0050                |
| 20        | 18900      | 1880      | QPSK       | 1    | HIGH   | 5.64                 | 0.0030                |
| 20        | 18900      | 1880      | QPSK       | 50   | LOW    | 8.69                 | 0.0046                |
| 20        | 18900      | 1880      | QPSK       | 50   | MID    | 6.83                 | 0.0036                |
| 20        | 18900      | 1880      | QPSK       | 50   | HIGH   | 9.76                 | 0.0051                |
| 20        | 18900      | 1880      | QPSK       | 100  | LOW    | 7.84                 | 0.0041                |
| 20        | 18900      | 1880      | Q16        | 1    | LOW    | 5.71                 | 0.0030                |
| 20        | 18900      | 1880      | Q16        | 1    | MID    | 7.92                 | 0.0042                |
| 20        | 18900      | 1880      | Q16        | 1    | HIGH   | 9.23                 | 0.0049                |
| 20        | 18900      | 1880      | Q16        | 50   | LOW    | 9.14                 | 0.0048                |
| 20        | 18900      | 1880      | Q16        | 50   | MID    | 8.29                 | 0.0044                |
| 20        | 18900      | 1880      | Q16        | 50   | HIGH   | 10                   | 0.0053                |
| 20        | 18900      | 1880      | Q16        | 100  | LOW    | 5.4                  | 0.0028                |
| 20        | 19100      | 1900      | QPSK       | 1    | LOW    | 8.28                 | 0.0043                |
| 20        | 19100      | 1900      | QPSK       | 1    | MID    | 7.45                 | 0.0039                |
| 20        | 19100      | 1900      | QPSK       | 1    | HIGH   | 8.78                 | 0.0046                |
| 20        | 19100      | 1900      | QPSK       | 50   | LOW    | 6.96                 | 0.0036                |
| 20        | 19100      | 1900      | QPSK       | 50   | MID    | 5.23                 | 0.0027                |
| 20        | 19100      | 1900      | QPSK       | 50   | HIGH   | 6.47                 | 0.0034                |
| 20        | 19100      | 1900      | QPSK       | 100  | LOW    | 9.14                 | 0.0048                |
| 20        | 19100      | 1900      | Q16        | 1    | LOW    | 9.19                 | 0.0048                |
| 20        | 19100      | 1900      | Q16        | 1    | MID    | 7.26                 | 0.0038                |
| 20        | 19100      | 1900      | Q16        | 1    | HIGH   | 5.13                 | 0.0027                |
| 20        | 19100      | 1900      | Q16        | 50   | LOW    | 6.77                 | 0.0035                |
| 20        | 19100      | 1900      | Q16        | 50   | MID    | 7.34                 | 0.0038                |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 20        | 19100      | 1900      | Q16        | 50   | HIGH   | 5.75            | 0.0030          |
| 20        | 19100      | 1900      | Q16        | 100  | LOW    | 7.54            | 0.0039          |

**BAND 4:**

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 1.4       | 19957      | 1710.7    | QPSK       | 1    | LOW    | 8.93            | 0.0052          |
| 1.4       | 19957      | 1710.7    | QPSK       | 1    | MID    | 5.57            | 0.0032          |
| 1.4       | 19957      | 1710.7    | QPSK       | 1    | HIGH   | 7.7             | 0.0045          |
| 1.4       | 19957      | 1710.7    | QPSK       | 3    | LOW    | 9.76            | 0.0057          |
| 1.4       | 19957      | 1710.7    | QPSK       | 3    | MID    | 8.72            | 0.0050          |
| 1.4       | 19957      | 1710.7    | QPSK       | 3    | HIGH   | 8.67            | 0.0050          |
| 1.4       | 19957      | 1710.7    | QPSK       | 6    | LOW    | 6.79            | 0.0039          |
| 1.4       | 19957      | 1710.7    | Q16        | 1    | LOW    | 8.75            | 0.0051          |
| 1.4       | 19957      | 1710.7    | Q16        | 1    | MID    | 8.34            | 0.0048          |
| 1.4       | 19957      | 1710.7    | Q16        | 1    | HIGH   | 6.73            | 0.0039          |
| 1.4       | 19957      | 1710.7    | Q16        | 3    | LOW    | 7.64            | 0.0044          |
| 1.4       | 19957      | 1710.7    | Q16        | 3    | MID    | 5.36            | 0.0031          |
| 1.4       | 19957      | 1710.7    | Q16        | 3    | HIGH   | 9.42            | 0.0055          |
| 1.4       | 19957      | 1710.7    | Q16        | 6    | LOW    | 7.32            | 0.0042          |
| 1.4       | 20393      | 1754.3    | QPSK       | 1    | LOW    | 8.13            | 0.0046          |
| 1.4       | 20393      | 1754.3    | QPSK       | 1    | MID    | 7.53            | 0.0042          |
| 1.4       | 20393      | 1754.3    | QPSK       | 1    | HIGH   | 8.39            | 0.0047          |
| 1.4       | 20393      | 1754.3    | QPSK       | 3    | LOW    | 6.02            | 0.0034          |
| 1.4       | 20393      | 1754.3    | QPSK       | 3    | MID    | 5.54            | 0.0031          |
| 1.4       | 20393      | 1754.3    | QPSK       | 3    | HIGH   | 6.22            | 0.0035          |
| 1.4       | 20393      | 1754.3    | QPSK       | 6    | LOW    | 7.37            | 0.0042          |
| 1.4       | 20393      | 1754.3    | Q16        | 1    | LOW    | 7.51            | 0.0042          |
| 1.4       | 20393      | 1754.3    | Q16        | 1    | MID    | 9.02            | 0.0051          |
| 1.4       | 20393      | 1754.3    | Q16        | 1    | HIGH   | 5.57            | 0.0031          |
| 1.4       | 20393      | 1754.3    | Q16        | 3    | LOW    | 8.22            | 0.0046          |
| 1.4       | 20393      | 1754.3    | Q16        | 3    | MID    | 6.12            | 0.0034          |
| 1.4       | 20393      | 1754.3    | Q16        | 3    | HIGH   | 9.89            | 0.0056          |
| 1.4       | 20393      | 1754.3    | Q16        | 6    | LOW    | 7.64            | 0.0043          |
| 1.4       | 20175      | 1732.5    | QPSK       | 1    | LOW    | 6.29            | 0.0036          |
| 1.4       | 20175      | 1732.5    | QPSK       | 1    | MID    | 7.72            | 0.0044          |
| 1.4       | 20175      | 1732.5    | QPSK       | 1    | HIGH   | 8.01            | 0.0046          |
| 1.4       | 20175      | 1732.5    | QPSK       | 3    | LOW    | 9.41            | 0.0054          |
| 1.4       | 20175      | 1732.5    | QPSK       | 3    | MID    | 5.34            | 0.0030          |
| 1.4       | 20175      | 1732.5    | QPSK       | 3    | HIGH   | 5.83            | 0.0033          |
| 1.4       | 20175      | 1732.5    | QPSK       | 6    | LOW    | 9.92            | 0.0057          |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 1.4       | 20175      | 1732.5    | Q16        | 1    | LOW    | 6.55            | 0.0037          |
| 1.4       | 20175      | 1732.5    | Q16        | 1    | MID    | 7.09            | 0.0040          |
| 1.4       | 20175      | 1732.5    | Q16        | 1    | HIGH   | 5.87            | 0.0033          |
| 1.4       | 20175      | 1732.5    | Q16        | 3    | LOW    | 8.87            | 0.0051          |
| 1.4       | 20175      | 1732.5    | Q16        | 3    | MID    | 8.94            | 0.0051          |
| 1.4       | 20175      | 1732.5    | Q16        | 3    | HIGH   | 9.1             | 0.0052          |
| 1.4       | 20175      | 1732.5    | Q16        | 6    | LOW    | 6.59            | 0.0038          |
| 3         | 19965      | 1711.5    | QPSK       | 1    | LOW    | 9.09            | 0.0053          |
| 3         | 19965      | 1711.5    | QPSK       | 1    | MID    | 5.79            | 0.0033          |
| 3         | 19965      | 1711.5    | QPSK       | 1    | HIGH   | 8.59            | 0.0050          |
| 3         | 19965      | 1711.5    | QPSK       | 8    | LOW    | 8.96            | 0.0052          |
| 3         | 19965      | 1711.5    | QPSK       | 8    | MID    | 9.12            | 0.0053          |
| 3         | 19965      | 1711.5    | QPSK       | 8    | HIGH   | 5.06            | 0.0029          |
| 3         | 19965      | 1711.5    | QPSK       | 15   | LOW    | 5.23            | 0.0030          |
| 3         | 19965      | 1711.5    | Q16        | 1    | LOW    | 8.52            | 0.0049          |
| 3         | 19965      | 1711.5    | Q16        | 1    | MID    | 7.44            | 0.0043          |
| 3         | 19965      | 1711.5    | Q16        | 1    | HIGH   | 6.78            | 0.0039          |
| 3         | 19965      | 1711.5    | Q16        | 8    | LOW    | 5.17            | 0.0030          |
| 3         | 19965      | 1711.5    | Q16        | 8    | MID    | 7.82            | 0.0045          |
| 3         | 19965      | 1711.5    | Q16        | 8    | HIGH   | 5.63            | 0.0032          |
| 3         | 19965      | 1711.5    | Q16        | 15   | LOW    | 9.24            | 0.0053          |
| 3         | 20385      | 1753.5    | QPSK       | 1    | LOW    | 9.98            | 0.0056          |
| 3         | 20385      | 1753.5    | QPSK       | 1    | MID    | 6.1             | 0.0034          |
| 3         | 20385      | 1753.5    | QPSK       | 1    | HIGH   | 6.99            | 0.0039          |
| 3         | 20385      | 1753.5    | QPSK       | 8    | LOW    | 7.26            | 0.0041          |
| 3         | 20385      | 1753.5    | QPSK       | 8    | MID    | 5.39            | 0.0030          |
| 3         | 20385      | 1753.5    | QPSK       | 8    | HIGH   | 8.19            | 0.0046          |
| 3         | 20385      | 1753.5    | QPSK       | 15   | LOW    | 6.69            | 0.0038          |
| 3         | 20385      | 1753.5    | Q16        | 1    | LOW    | 7.29            | 0.0041          |
| 3         | 20385      | 1753.5    | Q16        | 1    | MID    | 9.84            | 0.0056          |
| 3         | 20385      | 1753.5    | Q16        | 1    | HIGH   | 9.08            | 0.0051          |
| 3         | 20385      | 1753.5    | Q16        | 8    | LOW    | 5.33            | 0.0030          |
| 3         | 20385      | 1753.5    | Q16        | 8    | MID    | 9.5             | 0.0054          |
| 3         | 20385      | 1753.5    | Q16        | 8    | HIGH   | 9.5             | 0.0054          |
| 3         | 20385      | 1753.5    | Q16        | 15   | LOW    | 8.02            | 0.0045          |
| 3         | 20175      | 1732.5    | QPSK       | 1    | LOW    | 5.26            | 0.0030          |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 3         | 20175      | 1732.5    | QPSK       | 1    | MID    | 5.43            | 0.0031          |
| 3         | 20175      | 1732.5    | QPSK       | 1    | HIGH   | 6.5             | 0.0037          |
| 3         | 20175      | 1732.5    | QPSK       | 8    | LOW    | 7.43            | 0.0042          |
| 3         | 20175      | 1732.5    | QPSK       | 8    | MID    | 8.47            | 0.0048          |
| 3         | 20175      | 1732.5    | QPSK       | 8    | HIGH   | 7.59            | 0.0043          |
| 3         | 20175      | 1732.5    | QPSK       | 15   | LOW    | 7.77            | 0.0044          |
| 3         | 20175      | 1732.5    | Q16        | 1    | LOW    | 7.52            | 0.0043          |
| 3         | 20175      | 1732.5    | Q16        | 1    | MID    | 7.8             | 0.0045          |
| 3         | 20175      | 1732.5    | Q16        | 1    | HIGH   | 5.76            | 0.0033          |
| 3         | 20175      | 1732.5    | Q16        | 8    | LOW    | 7.08            | 0.0040          |
| 3         | 20175      | 1732.5    | Q16        | 8    | MID    | 6.18            | 0.0035          |
| 3         | 20175      | 1732.5    | Q16        | 8    | HIGH   | 8.32            | 0.0048          |
| 3         | 20175      | 1732.5    | Q16        | 15   | LOW    | 5.14            | 0.0029          |
| 5         | 19975      | 1712.5    | QPSK       | 1    | LOW    | 6.85            | 0.004           |
| 5         | 19975      | 1712.5    | QPSK       | 1    | MID    | 8.66            | 0.0050          |
| 5         | 19975      | 1712.5    | QPSK       | 1    | HIGH   | 8.22            | 0.0048          |
| 5         | 19975      | 1712.5    | QPSK       | 12   | LOW    | 8.78            | 0.0051          |
| 5         | 19975      | 1712.5    | QPSK       | 12   | MID    | 9.47            | 0.0055          |
| 5         | 19975      | 1712.5    | QPSK       | 12   | HIGH   | 6.95            | 0.0040          |
| 5         | 19975      | 1712.5    | QPSK       | 25   | LOW    | 7.66            | 0.0044          |
| 5         | 19975      | 1712.5    | Q16        | 1    | LOW    | 8.45            | 0.0049          |
| 5         | 19975      | 1712.5    | Q16        | 1    | MID    | 9.57            | 0.0055          |
| 5         | 19975      | 1712.5    | Q16        | 1    | HIGH   | 6.89            | 0.0040          |
| 5         | 19975      | 1712.5    | Q16        | 12   | LOW    | 8.08            | 0.0047          |
| 5         | 19975      | 1712.5    | Q16        | 12   | MID    | 9.51            | 0.0055          |
| 5         | 19975      | 1712.5    | Q16        | 12   | HIGH   | 8.1             | 0.0047          |
| 5         | 19975      | 1712.5    | Q16        | 25   | LOW    | 9.8             | 0.0057          |
| 5         | 20375      | 1752.5    | QPSK       | 1    | LOW    | 5.93            | 0.0033          |
| 5         | 20375      | 1752.5    | QPSK       | 1    | MID    | 9.66            | 0.0055          |
| 5         | 20375      | 1752.5    | QPSK       | 1    | HIGH   | 9.48            | 0.0054          |
| 5         | 20375      | 1752.5    | QPSK       | 12   | LOW    | 5.32            | 0.0030          |
| 5         | 20375      | 1752.5    | QPSK       | 12   | MID    | 7.16            | 0.0040          |
| 5         | 20375      | 1752.5    | QPSK       | 12   | HIGH   | 8.36            | 0.0047          |
| 5         | 20375      | 1752.5    | QPSK       | 25   | LOW    | 6.72            | 0.0038          |
| 5         | 20375      | 1752.5    | Q16        | 1    | LOW    | 7.25            | 0.0041          |
| 5         | 20375      | 1752.5    | Q16        | 1    | MID    | 6.99            | 0.0039          |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 5         | 20375      | 1752.5    | Q16        | 1    | HIGH   | 8.46            | 0.0048          |
| 5         | 20375      | 1752.5    | Q16        | 12   | LOW    | 7.6             | 0.0043          |
| 5         | 20375      | 1752.5    | Q16        | 12   | MID    | 6.52            | 0.0037          |
| 5         | 20375      | 1752.5    | Q16        | 12   | HIGH   | 7.18            | 0.0040          |
| 5         | 20375      | 1752.5    | Q16        | 25   | LOW    | 8.43            | 0.0048          |
| 5         | 20175      | 1732.5    | QPSK       | 1    | LOW    | 8.97            | 0.0051          |
| 5         | 20175      | 1732.5    | QPSK       | 1    | MID    | 9.17            | 0.0052          |
| 5         | 20175      | 1732.5    | QPSK       | 1    | HIGH   | 6.44            | 0.0037          |
| 5         | 20175      | 1732.5    | QPSK       | 12   | LOW    | 5.22            | 0.0030          |
| 5         | 20175      | 1732.5    | QPSK       | 12   | MID    | 8.59            | 0.0049          |
| 5         | 20175      | 1732.5    | QPSK       | 12   | HIGH   | 5.92            | 0.0034          |
| 5         | 20175      | 1732.5    | QPSK       | 25   | LOW    | 8.89            | 0.0051          |
| 5         | 20175      | 1732.5    | Q16        | 1    | LOW    | 9.79            | 0.0056          |
| 5         | 20175      | 1732.5    | Q16        | 1    | MID    | 9.85            | 0.0056          |
| 5         | 20175      | 1732.5    | Q16        | 1    | HIGH   | 8               | 0.0046          |
| 5         | 20175      | 1732.5    | Q16        | 12   | LOW    | 9.92            | 0.0057          |
| 5         | 20175      | 1732.5    | Q16        | 12   | MID    | 8.23            | 0.0047          |
| 5         | 20175      | 1732.5    | Q16        | 12   | HIGH   | 8.15            | 0.0047          |
| 5         | 20175      | 1732.5    | Q16        | 25   | LOW    | 8.41            | 0.0048          |
| 10        | 20000      | 1715      | QPSK       | 1    | LOW    | 7.57            | 0.0044          |
| 10        | 20000      | 1715      | QPSK       | 1    | MID    | 8.05            | 0.0046          |
| 10        | 20000      | 1715      | QPSK       | 1    | HIGH   | 7.79            | 0.0045          |
| 10        | 20000      | 1715      | QPSK       | 25   | LOW    | 5.75            | 0.0033          |
| 10        | 20000      | 1715      | QPSK       | 25   | MID    | 7.54            | 0.0043          |
| 10        | 20000      | 1715      | QPSK       | 25   | HIGH   | 5.57            | 0.0032          |
| 10        | 20000      | 1715      | QPSK       | 50   | LOW    | 6.35            | 0.0037          |
| 10        | 20000      | 1715      | Q16        | 1    | LOW    | 5.62            | 0.0032          |
| 10        | 20000      | 1715      | Q16        | 1    | MID    | 6.49            | 0.0037          |
| 10        | 20000      | 1715      | Q16        | 1    | HIGH   | 6.04            | 0.0035          |
| 10        | 20000      | 1715      | Q16        | 25   | LOW    | 8.55            | 0.0049          |
| 10        | 20000      | 1715      | Q16        | 25   | MID    | 9.87            | 0.0057          |
| 10        | 20000      | 1715      | Q16        | 25   | HIGH   | 7.01            | 0.0040          |
| 10        | 20000      | 1715      | Q16        | 50   | LOW    | 7.14            | 0.0041          |
| 10        | 20350      | 1750      | QPSK       | 1    | LOW    | 9.66            | 0.0055          |
| 10        | 20350      | 1750      | QPSK       | 1    | MID    | 5.52            | 0.0031          |
| 10        | 20350      | 1750      | QPSK       | 1    | HIGH   | 6.04            | 0.0034          |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 10        | 20350      | 1750      | QPSK       | 25   | LOW    | 8.46            | 0.0048          |
| 10        | 20350      | 1750      | QPSK       | 25   | MID    | 9.36            | 0.0053          |
| 10        | 20350      | 1750      | QPSK       | 25   | HIGH   | 8.32            | 0.0047          |
| 10        | 20350      | 1750      | QPSK       | 50   | LOW    | 7.33            | 0.0041          |
| 10        | 20350      | 1750      | Q16        | 1    | LOW    | 9.52            | 0.0054          |
| 10        | 20350      | 1750      | Q16        | 1    | MID    | 9.47            | 0.0054          |
| 10        | 20350      | 1750      | Q16        | 1    | HIGH   | 8.18            | 0.0046          |
| 10        | 20350      | 1750      | Q16        | 25   | LOW    | 9.88            | 0.0056          |
| 10        | 20350      | 1750      | Q16        | 25   | MID    | 6.63            | 0.0037          |
| 10        | 20350      | 1750      | Q16        | 25   | HIGH   | 9.73            | 0.0055          |
| 10        | 20350      | 1750      | Q16        | 50   | LOW    | 6.51            | 0.0037          |
| 10        | 20175      | 1732.5    | QPSK       | 1    | LOW    | 7.62            | 0.0043          |
| 10        | 20175      | 1732.5    | QPSK       | 1    | MID    | 8.87            | 0.0051          |
| 10        | 20175      | 1732.5    | QPSK       | 1    | HIGH   | 6.29            | 0.0036          |
| 10        | 20175      | 1732.5    | QPSK       | 25   | LOW    | 7.33            | 0.0042          |
| 10        | 20175      | 1732.5    | QPSK       | 25   | MID    | 8.77            | 0.0050          |
| 10        | 20175      | 1732.5    | QPSK       | 25   | HIGH   | 8.3             | 0.0047          |
| 10        | 20175      | 1732.5    | QPSK       | 50   | LOW    | 8.14            | 0.0046          |
| 10        | 20175      | 1732.5    | Q16        | 1    | LOW    | 5.34            | 0.0030          |
| 10        | 20175      | 1732.5    | Q16        | 1    | MID    | 5.94            | 0.0034          |
| 10        | 20175      | 1732.5    | Q16        | 1    | HIGH   | 6.54            | 0.0037          |
| 10        | 20175      | 1732.5    | Q16        | 25   | LOW    | 6.57            | 0.0037          |
| 10        | 20175      | 1732.5    | Q16        | 25   | MID    | 8.62            | 0.0049          |
| 10        | 20175      | 1732.5    | Q16        | 25   | HIGH   | 6.8             | 0.0039          |
| 10        | 20175      | 1732.5    | Q16        | 50   | LOW    | 7.92            | 0.0045          |
| 15        | 20025      | 1717.5    | QPSK       | 1    | LOW    | 9.01            | 0.0052          |
| 15        | 20025      | 1717.5    | QPSK       | 1    | MID    | 7.69            | 0.0044          |
| 15        | 20025      | 1717.5    | QPSK       | 1    | HIGH   | 6.62            | 0.0038          |
| 15        | 20025      | 1717.5    | QPSK       | 36   | LOW    | 7.37            | 0.0042          |
| 15        | 20025      | 1717.5    | QPSK       | 36   | MID    | 6.86            | 0.0039          |
| 15        | 20025      | 1717.5    | QPSK       | 36   | HIGH   | 5.63            | 0.0032          |
| 15        | 20025      | 1717.5    | QPSK       | 75   | LOW    | 5.54            | 0.0032          |
| 15        | 20025      | 1717.5    | Q16        | 1    | LOW    | 8.65            | 0.0050          |
| 15        | 20025      | 1717.5    | Q16        | 1    | MID    | 6.89            | 0.0040          |
| 15        | 20025      | 1717.5    | Q16        | 1    | HIGH   | 5.91            | 0.0034          |
| 15        | 20025      | 1717.5    | Q16        | 36   | LOW    | 8.6             | 0.0050          |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 15        | 20025      | 1717.5    | Q16        | 36   | MID    | 8.74            | 0.0050          |
| 15        | 20025      | 1717.5    | Q16        | 36   | HIGH   | 9.33            | 0.0054          |
| 15        | 20025      | 1717.5    | Q16        | 75   | LOW    | 6.97            | 0.0050          |
| 15        | 20325      | 1747.5    | QPSK       | 1    | LOW    | 5.06            | 0.0054          |
| 15        | 20325      | 1747.5    | QPSK       | 1    | MID    | 5.08            | 0.0040          |
| 15        | 20325      | 1747.5    | QPSK       | 1    | HIGH   | 8.75            | 0.0028          |
| 15        | 20325      | 1747.5    | QPSK       | 36   | LOW    | 8.37            | 0.0029          |
| 15        | 20325      | 1747.5    | QPSK       | 36   | MID    | 6.72            | 0.0050          |
| 15        | 20325      | 1747.5    | QPSK       | 36   | HIGH   | 6.42            | 0.0047          |
| 15        | 20325      | 1747.5    | QPSK       | 75   | LOW    | 6.91            | 0.0038          |
| 15        | 20325      | 1747.5    | Q16        | 1    | LOW    | 6.22            | 0.0036          |
| 15        | 20325      | 1747.5    | Q16        | 1    | MID    | 9.7             | 0.0039          |
| 15        | 20325      | 1747.5    | Q16        | 1    | HIGH   | 8.26            | 0.0035          |
| 15        | 20325      | 1747.5    | Q16        | 36   | LOW    | 8.62            | 0.0055          |
| 15        | 20325      | 1747.5    | Q16        | 36   | MID    | 5.97            | 0.0047          |
| 15        | 20325      | 1747.5    | Q16        | 36   | HIGH   | 7.34            | 0.0049          |
| 15        | 20325      | 1747.5    | Q16        | 75   | LOW    | 9.44            | 0.0034          |
| 15        | 20175      | 1732.5    | QPSK       | 1    | LOW    | 5.5             | 0.0042          |
| 15        | 20175      | 1732.5    | QPSK       | 1    | MID    | 7.94            | 0.0054          |
| 15        | 20175      | 1732.5    | QPSK       | 1    | HIGH   | 9.44            | 0.0031          |
| 15        | 20175      | 1732.5    | QPSK       | 36   | LOW    | 8.49            | 0.0045          |
| 15        | 20175      | 1732.5    | QPSK       | 36   | MID    | 7.62            | 0.0054          |
| 15        | 20175      | 1732.5    | QPSK       | 36   | HIGH   | 7.82            | 0.0049          |
| 15        | 20175      | 1732.5    | QPSK       | 75   | LOW    | 7.36            | 0.0043          |
| 15        | 20175      | 1732.5    | Q16        | 1    | LOW    | 7.17            | 0.0045          |
| 15        | 20175      | 1732.5    | Q16        | 1    | MID    | 7.97            | 0.0042          |
| 15        | 20175      | 1732.5    | Q16        | 1    | HIGH   | 8.27            | 0.0041          |
| 15        | 20175      | 1732.5    | Q16        | 36   | LOW    | 9.79            | 0.0046          |
| 15        | 20175      | 1732.5    | Q16        | 36   | MID    | 5.13            | 0.0047          |
| 15        | 20175      | 1732.5    | Q16        | 36   | HIGH   | 9.86            | 0.0056          |
| 15        | 20175      | 1732.5    | Q16        | 75   | LOW    | 7.93            | 0.0029          |
| 20        | 20050      | 1720      | QPSK       | 1    | LOW    | 5.62            | 0.0056          |
| 20        | 20050      | 1720      | QPSK       | 1    | MID    | 5.8             | 0.0045          |
| 20        | 20050      | 1720      | QPSK       | 1    | HIGH   | 5.67            | 0.0032          |
| 20        | 20050      | 1720      | QPSK       | 50   | LOW    | 5.25            | 0.0033          |
| 20        | 20050      | 1720      | QPSK       | 50   | MID    | 5.63            | 0.0032          |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 20        | 20050      | 1720      | QPSK       | 50   | HIGH   | 7.98            | 0.0046          |
| 20        | 20050      | 1720      | QPSK       | 100  | LOW    | 9.58            | 0.0055          |
| 20        | 20050      | 1720      | Q16        | 1    | LOW    | 6.02            | 0.0035          |
| 20        | 20050      | 1720      | Q16        | 1    | MID    | 7.81            | 0.0045          |
| 20        | 20050      | 1720      | Q16        | 1    | HIGH   | 7.5             | 0.0043          |
| 20        | 20050      | 1720      | Q16        | 50   | LOW    | 9.34            | 0.0054          |
| 20        | 20050      | 1720      | Q16        | 50   | MID    | 8.3             | 0.0048          |
| 20        | 20050      | 1720      | Q16        | 50   | HIGH   | 7.31            | 0.0042          |
| 20        | 20050      | 1720      | Q16        | 100  | LOW    | 6.1             | 0.0035          |
| 20        | 20300      | 1745      | QPSK       | 1    | LOW    | 5.28            | 0.0030          |
| 20        | 20300      | 1745      | QPSK       | 1    | MID    | 6               | 0.0034          |
| 20        | 20300      | 1745      | QPSK       | 1    | HIGH   | 9.39            | 0.0053          |
| 20        | 20300      | 1745      | QPSK       | 50   | LOW    | 6.95            | 0.0039          |
| 20        | 20300      | 1745      | QPSK       | 50   | MID    | 5.91            | 0.0033          |
| 20        | 20300      | 1745      | QPSK       | 50   | HIGH   | 9.74            | 0.0055          |
| 20        | 20300      | 1745      | QPSK       | 100  | LOW    | 7.15            | 0.0040          |
| 20        | 20300      | 1745      | Q16        | 1    | LOW    | 6.95            | 0.0039          |
| 20        | 20300      | 1745      | Q16        | 1    | MID    | 8.23            | 0.0047          |
| 20        | 20300      | 1745      | Q16        | 1    | HIGH   | 7.28            | 0.0041          |
| 20        | 20300      | 1745      | Q16        | 50   | LOW    | 8.53            | 0.0048          |
| 20        | 20300      | 1745      | Q16        | 50   | MID    | 9.03            | 0.0051          |
| 20        | 20300      | 1745      | Q16        | 50   | HIGH   | 5.83            | 0.0033          |
| 20        | 20300      | 1745      | Q16        | 100  | LOW    | 9.84            | 0.0056          |
| 20        | 20175      | 1732.5    | QPSK       | 1    | LOW    | 7               | 0.0040          |
| 20        | 20175      | 1732.5    | QPSK       | 1    | MID    | 5.37            | 0.0030          |
| 20        | 20175      | 1732.5    | QPSK       | 1    | HIGH   | 9.83            | 0.0056          |
| 20        | 20175      | 1732.5    | QPSK       | 50   | LOW    | 5.43            | 0.0031          |
| 20        | 20175      | 1732.5    | QPSK       | 50   | MID    | 7.27            | 0.0041          |
| 20        | 20175      | 1732.5    | QPSK       | 50   | HIGH   | 5.2             | 0.0030          |
| 20        | 20175      | 1732.5    | QPSK       | 100  | LOW    | 6.18            | 0.0035          |
| 20        | 20175      | 1732.5    | Q16        | 1    | LOW    | 6.84            | 0.0039          |
| 20        | 20175      | 1732.5    | Q16        | 1    | MID    | 8.47            | 0.0048          |
| 20        | 20175      | 1732.5    | Q16        | 1    | HIGH   | 7.08            | 0.0040          |
| 20        | 20175      | 1732.5    | Q16        | 50   | LOW    | 6.66            | 0.0038          |
| 20        | 20175      | 1732.5    | Q16        | 50   | MID    | 6.94            | 0.0040          |
| 20        | 20175      | 1732.5    | Q16        | 50   | HIGH   | 8.22            | 0.0047          |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency Error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 20        | 20175      | 1732.5    | Q16        | 100  | LOW    | 9.4             | 0.0054          |

**BAND 7:**

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 5         | 20775      | 2502.5    | QPSK       | 1    | LOW    | 6.06            | 0.0024          |
| 5         | 20775      | 2502.5    | QPSK       | 1    | MID    | 9.83            | 0.0039          |
| 5         | 20775      | 2502.5    | QPSK       | 1    | HIGH   | 9.21            | 0.0036          |
| 5         | 20775      | 2502.5    | QPSK       | 12   | LOW    | 6.08            | 0.0024          |
| 5         | 20775      | 2502.5    | QPSK       | 12   | MID    | 9.21            | 0.0036          |
| 5         | 20775      | 2502.5    | QPSK       | 12   | HIGH   | 9.78            | 0.0039          |
| 5         | 20775      | 2502.5    | QPSK       | 25   | LOW    | 9.74            | 0.0038          |
| 5         | 20775      | 2502.5    | Q16        | 1    | LOW    | 7.94            | 0.0031          |
| 5         | 20775      | 2502.5    | Q16        | 1    | MID    | 7.85            | 0.0031          |
| 5         | 20775      | 2502.5    | Q16        | 1    | HIGH   | 8.16            | 0.0032          |
| 5         | 20775      | 2502.5    | Q16        | 12   | LOW    | 8.41            | 0.0033          |
| 5         | 20775      | 2502.5    | Q16        | 12   | MID    | 6.29            | 0.0025          |
| 5         | 20775      | 2502.5    | Q16        | 12   | HIGH   | 6.66            | 0.0026          |
| 5         | 20775      | 2502.5    | Q16        | 25   | LOW    | 7.99            | 0.0031          |
| 5         | 21425      | 2567.5    | QPSK       | 1    | LOW    | 9.46            | 0.0036          |
| 5         | 21425      | 2567.5    | QPSK       | 1    | MID    | 8.16            | 0.0031          |
| 5         | 21425      | 2567.5    | QPSK       | 1    | HIGH   | 7.53            | 0.0029          |
| 5         | 21425      | 2567.5    | QPSK       | 12   | LOW    | 5               | 0.0019          |
| 5         | 21425      | 2567.5    | QPSK       | 12   | MID    | 6.09            | 0.0023          |
| 5         | 21425      | 2567.5    | QPSK       | 12   | HIGH   | 7.01            | 0.0027          |
| 5         | 21425      | 2567.5    | QPSK       | 25   | LOW    | 6.81            | 0.0026          |
| 5         | 21425      | 2567.5    | Q16        | 1    | LOW    | 9.8             | 0.0038          |
| 5         | 21425      | 2567.5    | Q16        | 1    | MID    | 6.41            | 0.0024          |
| 5         | 21425      | 2567.5    | Q16        | 1    | HIGH   | 9.71            | 0.0037          |
| 5         | 21425      | 2567.5    | Q16        | 12   | LOW    | 6.08            | 0.0023          |
| 5         | 21425      | 2567.5    | Q16        | 12   | MID    | 6.13            | 0.0023          |
| 5         | 21425      | 2567.5    | Q16        | 12   | HIGH   | 5.74            | 0.0022          |
| 5         | 21425      | 2567.5    | Q16        | 25   | LOW    | 5.7             | 0.0022          |
| 5         | 21100      | 2535      | QPSK       | 1    | LOW    | 8.3             | 0.0032          |
| 5         | 21100      | 2535      | QPSK       | 1    | MID    | 5.79            | 0.0022          |
| 5         | 21100      | 2535      | QPSK       | 1    | HIGH   | 5.79            | 0.0022          |
| 5         | 21100      | 2535      | QPSK       | 12   | LOW    | 6.87            | 0.0027          |
| 5         | 21100      | 2535      | QPSK       | 12   | MID    | 5.4             | 0.0021          |
| 5         | 21100      | 2535      | QPSK       | 12   | HIGH   | 7.9             | 0.0031          |
| 5         | 21100      | 2535      | QPSK       | 25   | LOW    | 5.79            | 0.0022          |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 5         | 21100      | 2535      | QPSK       | 1    | LOW    | 9.94            | 0.0039          |
| 5         | 21100      | 2535      | QPSK       | 1    | MID    | 8.62            | 0.0034          |
| 5         | 21100      | 2535      | QPSK       | 1    | HIGH   | 6.65            | 0.0026          |
| 5         | 21100      | 2535      | QPSK       | 12   | LOW    | 8.41            | 0.0033          |
| 5         | 21100      | 2535      | QPSK       | 12   | MID    | 5.08            | 0.0020          |
| 5         | 21100      | 2535      | QPSK       | 12   | HIGH   | 5.57            | 0.0021          |
| 5         | 21100      | 2535      | QPSK       | 25   | LOW    | 6.94            | 0.0027          |
| 10        | 20800      | 2505      | QPSK       | 1    | LOW    | 8.94            | 0.0035          |
| 10        | 20800      | 2505      | QPSK       | 1    | MID    | 9.87            | 0.0039          |
| 10        | 20800      | 2505      | QPSK       | 1    | HIGH   | 6.48            | 0.0025          |
| 10        | 20800      | 2505      | QPSK       | 25   | LOW    | 5.61            | 0.0022          |
| 10        | 20800      | 2505      | QPSK       | 25   | MID    | 9.14            | 0.0036          |
| 10        | 20800      | 2505      | QPSK       | 25   | HIGH   | 9.1             | 0.0036          |
| 10        | 20800      | 2505      | QPSK       | 50   | LOW    | 5.1             | 0.0020          |
| 10        | 20800      | 2505      | Q16        | 1    | LOW    | 7.5             | 0.0029          |
| 10        | 20800      | 2505      | Q16        | 1    | MID    | 6.75            | 0.0026          |
| 10        | 20800      | 2505      | Q16        | 1    | HIGH   | 7.14            | 0.0028          |
| 10        | 20800      | 2505      | Q16        | 25   | LOW    | 6.4             | 0.0025          |
| 10        | 20800      | 2505      | Q16        | 25   | MID    | 7.53            | 0.0030          |
| 10        | 20800      | 2505      | Q16        | 25   | HIGH   | 7.6             | 0.0030          |
| 10        | 20800      | 2505      | Q16        | 50   | LOW    | 5.27            | 0.0021          |
| 10        | 21400      | 2565      | QPSK       | 1    | LOW    | 9.61            | 0.0037          |
| 10        | 21400      | 2565      | QPSK       | 1    | MID    | 7.44            | 0.0029          |
| 10        | 21400      | 2565      | QPSK       | 1    | HIGH   | 5.63            | 0.0021          |
| 10        | 21400      | 2565      | QPSK       | 25   | LOW    | 7.34            | 0.0028          |
| 10        | 21400      | 2565      | QPSK       | 25   | MID    | 9.41            | 0.0036          |
| 10        | 21400      | 2565      | QPSK       | 25   | HIGH   | 6.6             | 0.0025          |
| 10        | 21400      | 2565      | QPSK       | 50   | LOW    | 5.33            | 0.0020          |
| 10        | 21400      | 2565      | QPSK       | 1    | LOW    | 9.27            | 0.0036          |
| 10        | 21400      | 2565      | QPSK       | 1    | MID    | 5.45            | 0.0021          |
| 10        | 21400      | 2565      | QPSK       | 1    | HIGH   | 9.14            | 0.0035          |
| 10        | 21400      | 2565      | Q16        | 25   | LOW    | 8.18            | 0.0031          |
| 10        | 21400      | 2565      | Q16        | 25   | MID    | 9.59            | 0.0037          |
| 10        | 21400      | 2565      | Q16        | 25   | HIGH   | 7.87            | 0.0030          |
| 10        | 21400      | 2565      | Q16        | 50   | LOW    | 5.54            | 0.0021          |
| 10        | 21100      | 2535      | QPSK       | 1    | LOW    | 8.89            | 0.0035          |

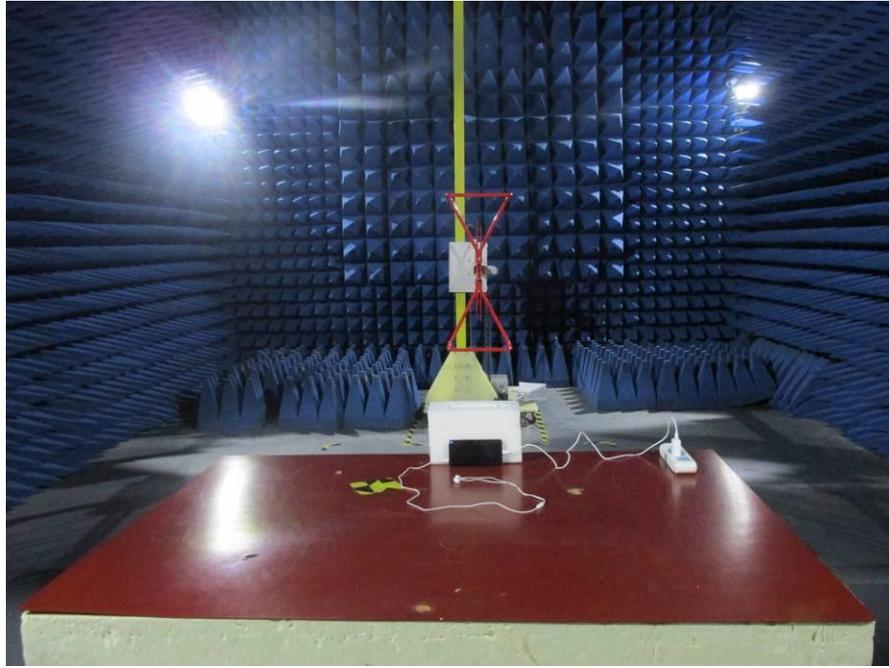
| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 10        | 21100      | 2535      | QPSK       | 1    | MID    | 9.2             | 0.0036          |
| 10        | 21100      | 2535      | QPSK       | 1    | HIGH   | 6.47            | 0.0025          |
| 10        | 21100      | 2535      | QPSK       | 25   | LOW    | 7.17            | 0.0028          |
| 10        | 21100      | 2535      | QPSK       | 25   | MID    | 7.06            | 0.0027          |
| 10        | 21100      | 2535      | QPSK       | 25   | HIGH   | 7.36            | 0.0029          |
| 10        | 21100      | 2535      | QPSK       | 50   | LOW    | 9.43            | 0.0037          |
| 10        | 21100      | 2535      | QPSK       | 1    | LOW    | 5.86            | 0.0023          |
| 10        | 21100      | 2535      | QPSK       | 1    | MID    | 6.18            | 0.0024          |
| 10        | 21100      | 2535      | QPSK       | 1    | HIGH   | 10              | 0.0039          |
| 10        | 21100      | 2535      | Q16        | 25   | LOW    | 9.36            | 0.0036          |
| 10        | 21100      | 2535      | Q16        | 25   | MID    | 5.49            | 0.0021          |
| 10        | 21100      | 2535      | Q16        | 25   | HIGH   | 7.09            | 0.0027          |
| 10        | 21100      | 2535      | Q16        | 50   | LOW    | 9.46            | 0.0037          |
| 15        | 20825      | 2507.5    | QPSK       | 1    | LOW    | 5.21            | 0.0020          |
| 15        | 20825      | 2507.5    | QPSK       | 1    | MID    | 5.88            | 0.0023          |
| 15        | 20825      | 2507.5    | QPSK       | 1    | HIGH   | 9.34            | 0.0037          |
| 15        | 20825      | 2507.5    | QPSK       | 36   | LOW    | 7.51            | 0.0029          |
| 15        | 20825      | 2507.5    | QPSK       | 36   | MID    | 5.14            | 0.0020          |
| 15        | 20825      | 2507.5    | QPSK       | 36   | HIGH   | 5.94            | 0.0023          |
| 15        | 20825      | 2507.5    | QPSK       | 75   | LOW    | 5.37            | 0.0021          |
| 15        | 20825      | 2507.5    | Q16        | 1    | LOW    | 9.93            | 0.0039          |
| 15        | 20825      | 2507.5    | Q16        | 1    | MID    | 7.64            | 0.0030          |
| 15        | 20825      | 2507.5    | Q16        | 1    | HIGH   | 8.03            | 0.0032          |
| 15        | 20825      | 2507.5    | Q16        | 36   | LOW    | 8.48            | 0.0033          |
| 15        | 20825      | 2507.5    | Q16        | 36   | MID    | 6.67            | 0.0026          |
| 15        | 20825      | 2507.5    | Q16        | 36   | HIGH   | 7.11            | 0.0028          |
| 15        | 20825      | 2507.5    | Q16        | 75   | LOW    | 7.21            | 0.0028          |
| 15        | 21375      | 2562.5    | QPSK       | 1    | LOW    | 6.99            | 0.0027          |
| 15        | 21375      | 2562.5    | QPSK       | 1    | MID    | 5.76            | 0.0022          |
| 15        | 21375      | 2562.5    | QPSK       | 1    | HIGH   | 8.98            | 0.0035          |
| 15        | 21375      | 2562.5    | QPSK       | 36   | LOW    | 7.13            | 0.0027          |
| 15        | 21375      | 2562.5    | QPSK       | 36   | MID    | 6.3             | 0.0024          |
| 15        | 21375      | 2562.5    | QPSK       | 36   | HIGH   | 5.78            | 0.0022          |
| 15        | 21375      | 2562.5    | QPSK       | 75   | LOW    | 7.08            | 0.0027          |
| 15        | 21375      | 2562.5    | Q16        | 1    | LOW    | 8.3             | 0.0032          |
| 15        | 21375      | 2562.5    | Q16        | 1    | MID    | 8               | 0.0031          |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 15        | 21375      | 2562.5    | Q16        | 1    | HIGH   | 8.12            | 0.0031          |
| 15        | 21375      | 2562.5    | Q16        | 36   | LOW    | 6.85            | 0.0026          |
| 15        | 21375      | 2562.5    | Q16        | 36   | MID    | 9.22            | 0.0035          |
| 15        | 21375      | 2562.5    | Q16        | 36   | HIGH   | 6.58            | 0.0025          |
| 15        | 21375      | 2562.5    | Q16        | 75   | LOW    | 5.51            | 0.0021          |
| 15        | 21100      | 2535      | QPSK       | 1    | LOW    | 8.22            | 0.0032          |
| 15        | 21100      | 2535      | QPSK       | 1    | MID    | 6.47            | 0.0025          |
| 15        | 21100      | 2535      | QPSK       | 1    | HIGH   | 9.98            | 0.0039          |
| 15        | 21100      | 2535      | QPSK       | 36   | LOW    | 8.12            | 0.0032          |
| 15        | 21100      | 2535      | QPSK       | 36   | MID    | 5.24            | 0.0020          |
| 15        | 21100      | 2535      | QPSK       | 36   | HIGH   | 7.02            | 0.0027          |
| 15        | 21100      | 2535      | QPSK       | 75   | LOW    | 6.02            | 0.0023          |
| 15        | 21100      | 2535      | Q16        | 1    | LOW    | 7.51            | 0.0029          |
| 15        | 21100      | 2535      | Q16        | 1    | MID    | 5.02            | 0.0019          |
| 15        | 21100      | 2535      | Q16        | 1    | HIGH   | 9.38            | 0.0037          |
| 15        | 21100      | 2535      | Q16        | 36   | LOW    | 8.83            | 0.0034          |
| 15        | 21100      | 2535      | Q16        | 36   | MID    | 7.74            | 0.0030          |
| 15        | 21100      | 2535      | Q16        | 36   | HIGH   | 9.14            | 0.0036          |
| 15        | 21100      | 2535      | Q16        | 75   | LOW    | 6.76            | 0.0026          |
| 20        | 20850      | 2510      | QPSK       | 1    | LOW    | 6.06            | 0.0024          |
| 20        | 20850      | 2510      | QPSK       | 1    | MID    | 9.66            | 0.0038          |
| 20        | 20850      | 2510      | QPSK       | 1    | HIGH   | 8.41            | 0.0033          |
| 20        | 20850      | 2510      | QPSK       | 50   | LOW    | 9.06            | 0.0036          |
| 20        | 20850      | 2510      | QPSK       | 50   | MID    | 5.82            | 0.0023          |
| 20        | 20850      | 2510      | QPSK       | 50   | HIGH   | 7.1             | 0.0028          |
| 20        | 20850      | 2510      | QPSK       | 100  | LOW    | 8.63            | 0.0034          |
| 20        | 20850      | 2510      | Q16        | 1    | LOW    | 6.91            | 0.0027          |
| 20        | 20850      | 2510      | Q16        | 1    | MID    | 7.42            | 0.0029          |
| 20        | 20850      | 2510      | Q16        | 1    | HIGH   | 8.03            | 0.0031          |
| 20        | 20850      | 2510      | Q16        | 50   | LOW    | 6.67            | 0.0026          |
| 20        | 20850      | 2510      | Q16        | 50   | MID    | 9.73            | 0.0038          |
| 20        | 20850      | 2510      | Q16        | 50   | HIGH   | 8.24            | 0.0032          |
| 20        | 20850      | 2510      | Q16        | 100  | LOW    | 7.54            | 0.0030          |
| 20        | 21350      | 2560      | QPSK       | 1    | LOW    | 9.47            | 0.0036          |
| 20        | 21350      | 2560      | QPSK       | 1    | MID    | 6.8             | 0.0026          |
| 20        | 21350      | 2560      | QPSK       | 1    | HIGH   | 8.95            | 0.0034          |

| Bandwidth | UL Channel | Frequency | Modulation | RB   | RB     | Frequency error | Frequency Error |
|-----------|------------|-----------|------------|------|--------|-----------------|-----------------|
|           |            |           |            | Size | Offset | (Hz)            | (ppm)           |
| 20        | 21350      | 2560      | QPSK       | 50   | LOW    | 8.81            | 0.0034          |
| 20        | 21350      | 2560      | QPSK       | 50   | MID    | 8.66            | 0.0033          |
| 20        | 21350      | 2560      | QPSK       | 50   | HIGH   | 6.32            | 0.0024          |
| 20        | 21350      | 2560      | QPSK       | 100  | LOW    | 7.99            | 0.0031          |
| 20        | 21350      | 2560      | Q16        | 1    | LOW    | 9.53            | 0.0037          |
| 20        | 21350      | 2560      | Q16        | 1    | MID    | 5.73            | 0.0022          |
| 20        | 21350      | 2560      | Q16        | 1    | HIGH   | 5.55            | 0.0021          |
| 20        | 21350      | 2560      | Q16        | 50   | LOW    | 9.25            | 0.0036          |
| 20        | 21350      | 2560      | Q16        | 50   | MID    | 8.35            | 0.0032          |
| 20        | 21350      | 2560      | Q16        | 50   | HIGH   | 8.23            | 0.0032          |
| 20        | 21350      | 2560      | Q16        | 100  | LOW    | 7.23            | 0.0028          |
| 20        | 21100      | 2535      | QPSK       | 1    | LOW    | 7.43            | 0.0029          |
| 20        | 21100      | 2535      | QPSK       | 1    | MID    | 5.33            | 0.0021          |
| 20        | 21100      | 2535      | QPSK       | 1    | HIGH   | 8.48            | 0.0033          |
| 20        | 21100      | 2535      | QPSK       | 50   | LOW    | 6.67            | 0.0026          |
| 20        | 21100      | 2535      | QPSK       | 50   | MID    | 6.46            | 0.0025          |
| 20        | 21100      | 2535      | QPSK       | 50   | HIGH   | 5.77            | 0.0022          |
| 20        | 21100      | 2535      | QPSK       | 100  | LOW    | 8               | 0.0031          |
| 20        | 21100      | 2535      | Q16        | 1    | LOW    | 9.11            | 0.0035          |
| 20        | 21100      | 2535      | Q16        | 1    | MID    | 9.34            | 0.0036          |
| 20        | 21100      | 2535      | Q16        | 1    | HIGH   | 8.01            | 0.0031          |
| 20        | 21100      | 2535      | Q16        | 50   | LOW    | 9.28            | 0.0036          |
| 20        | 21100      | 2535      | Q16        | 50   | MID    | 10              | 0.0039          |
| 20        | 21100      | 2535      | Q16        | 50   | HIGH   | 8.52            | 0.0033          |
| 20        | 21100      | 2535      | Q16        | 100  | LOW    | 7.81            | 0.0030          |

### 3 EUT TEST PHOTO

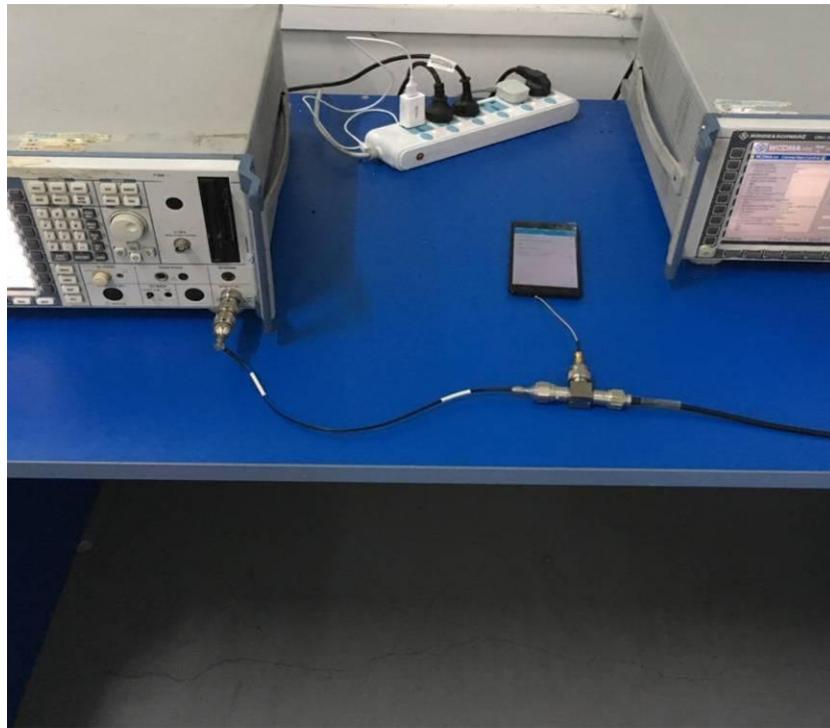
**RADIATED EMISSION TEST**  
(Frequency from 30MHz to 1GHz)



**RADIATED EMISSION TEST**  
(Frequency above 1GHz)



RF TEST



#### 4 EUT PHOTO

Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



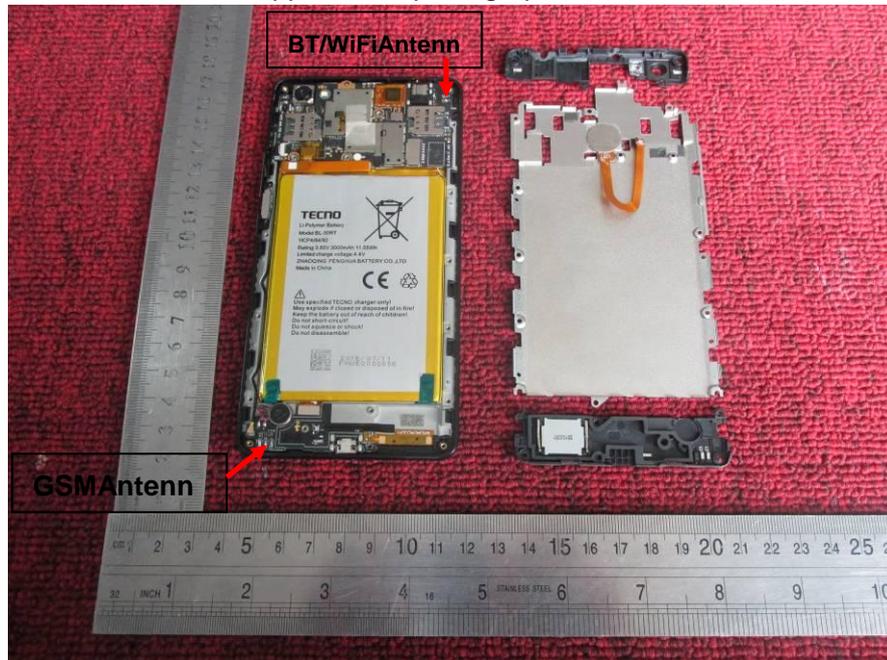
Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



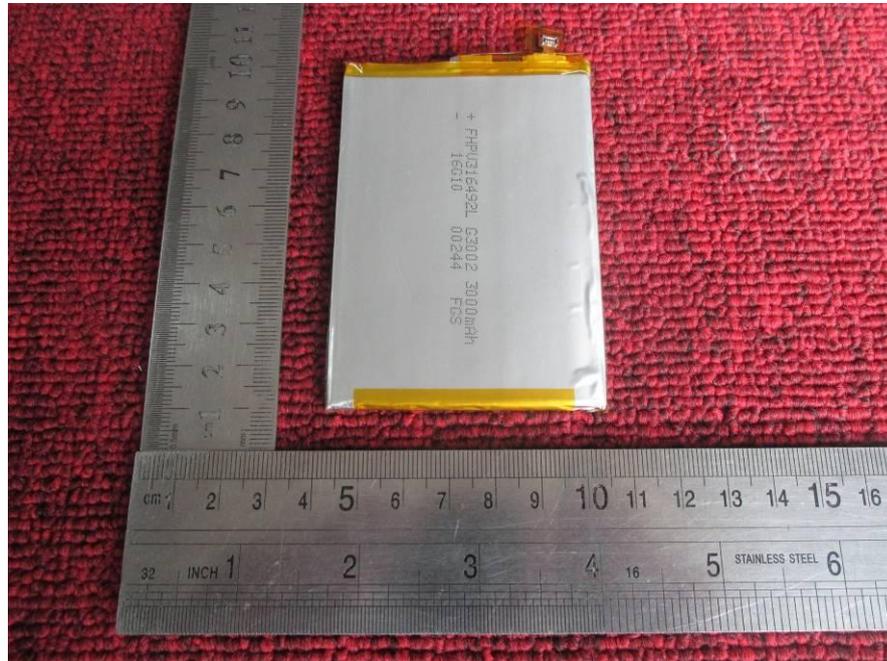
Internal photograph of EUT



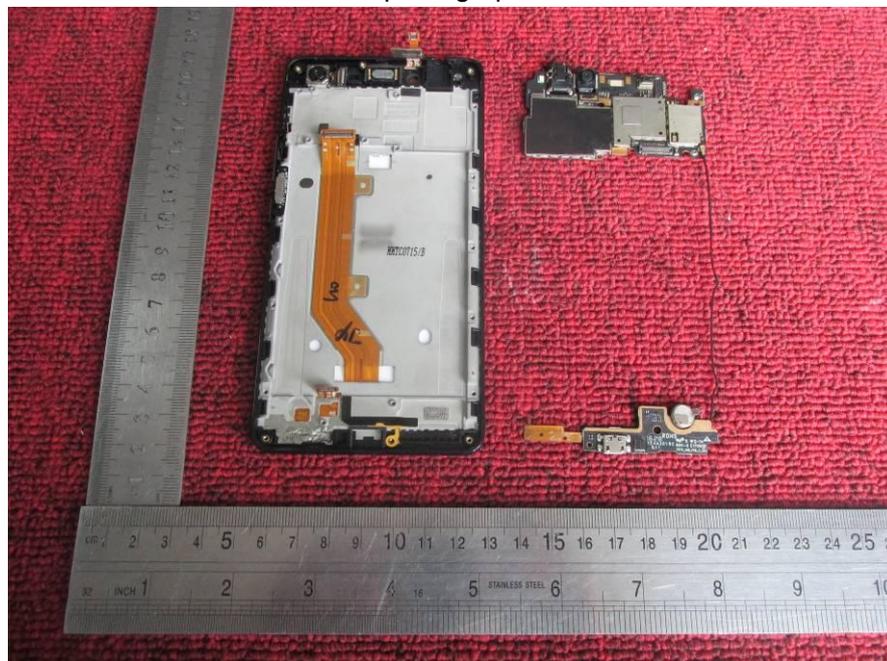
Internal photograph of EUT



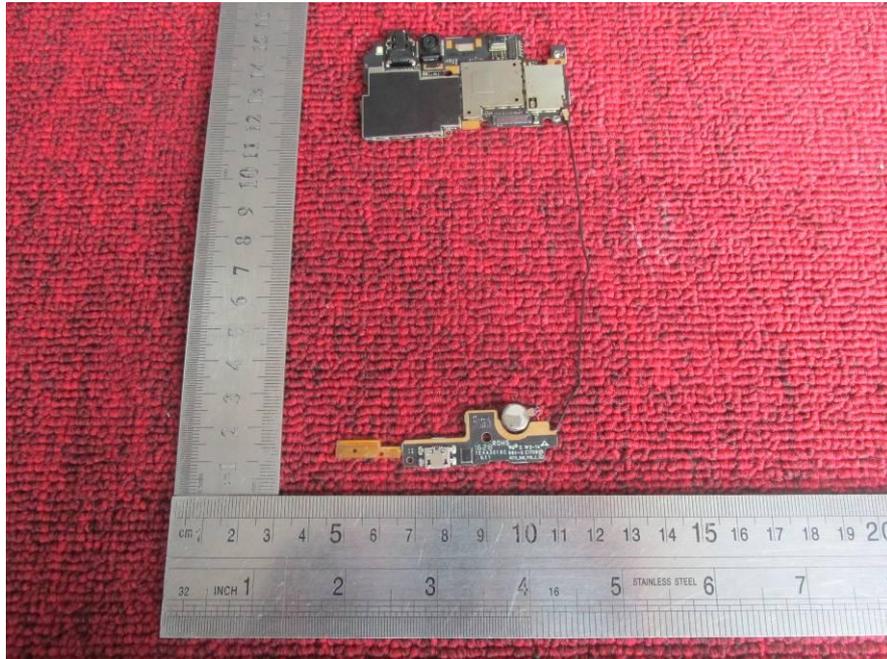
Internal photograph of EUT



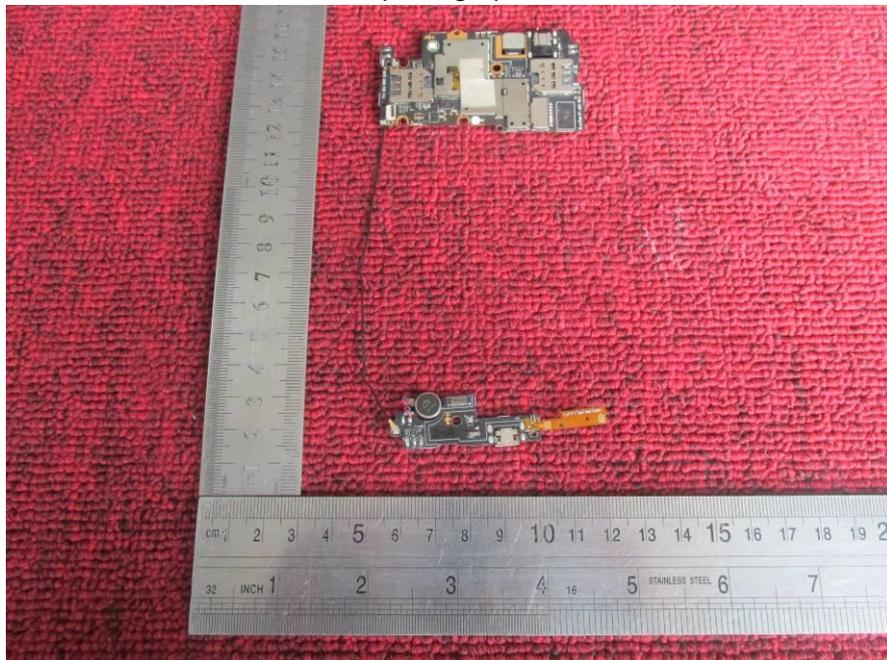
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



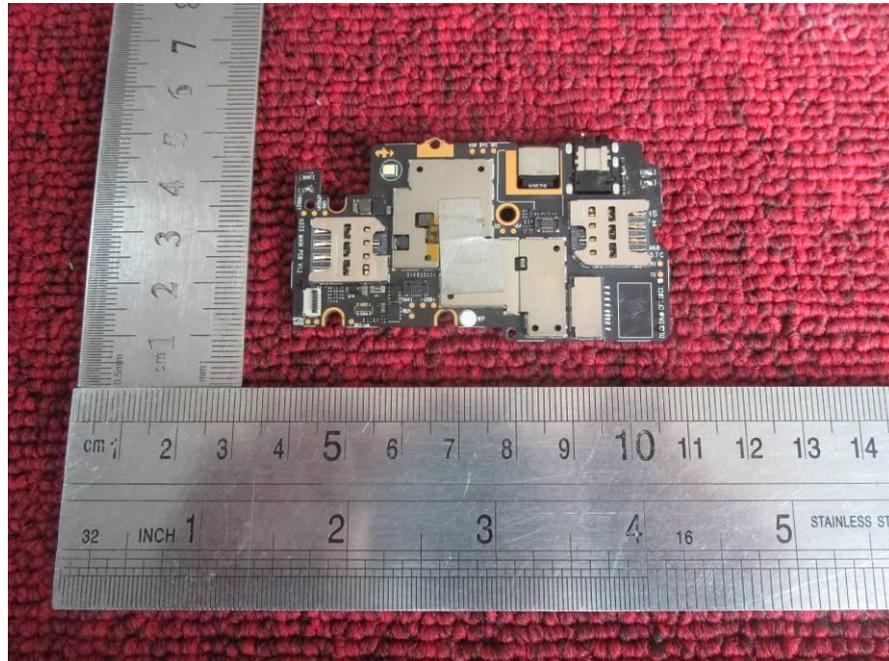
Internal photograph of EUT



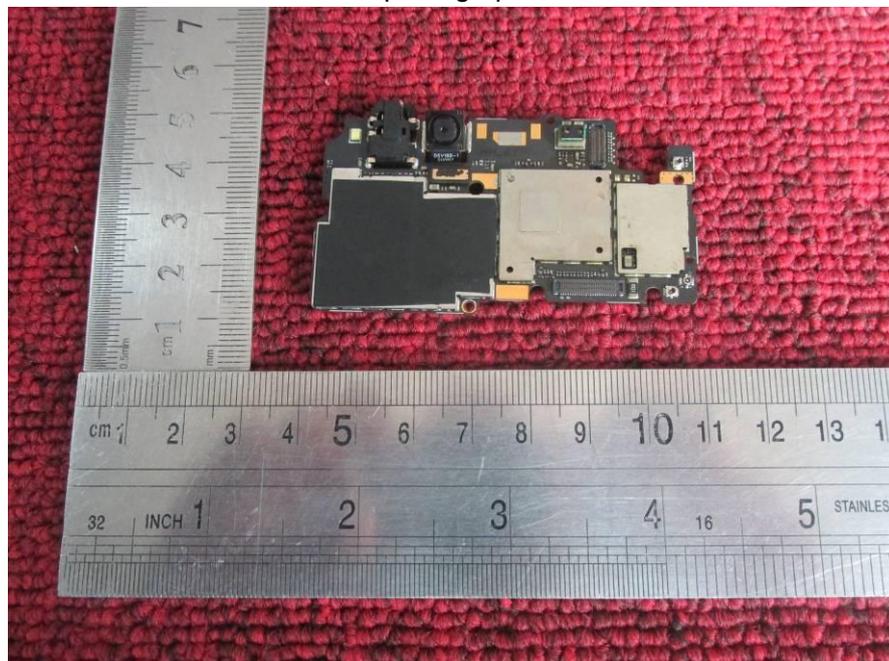
Internal photograph of EUT



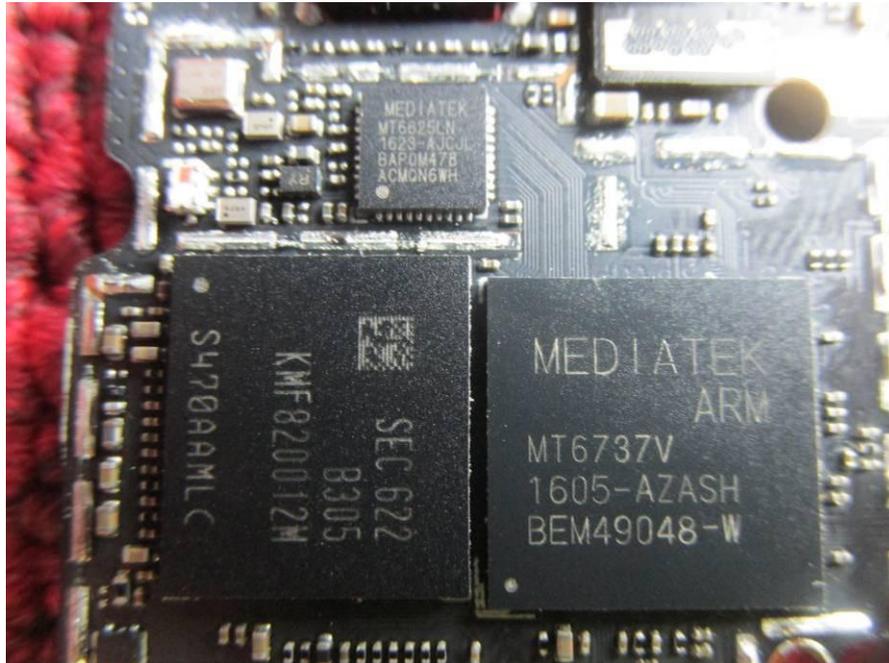
Internal photograph of EUT



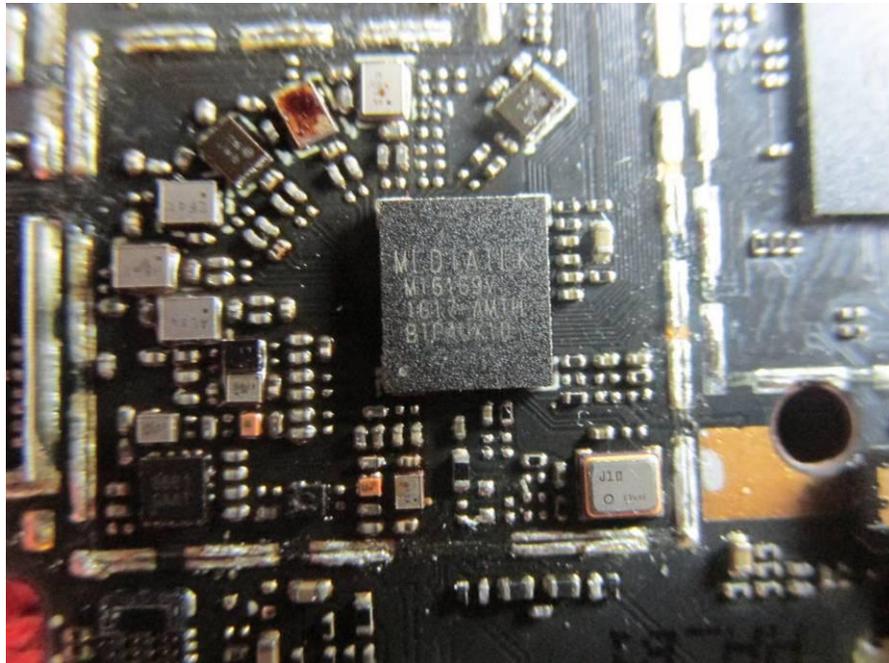
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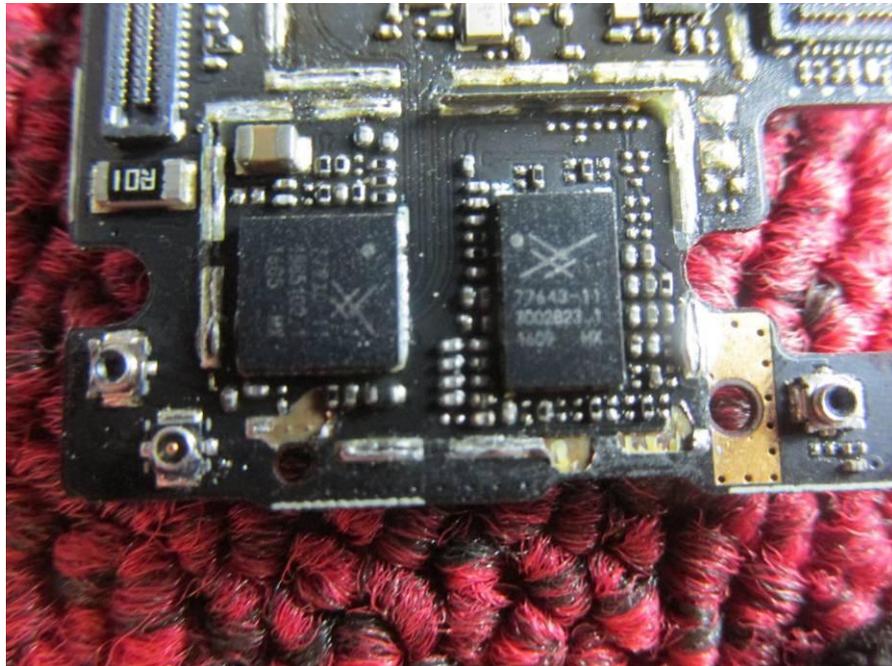
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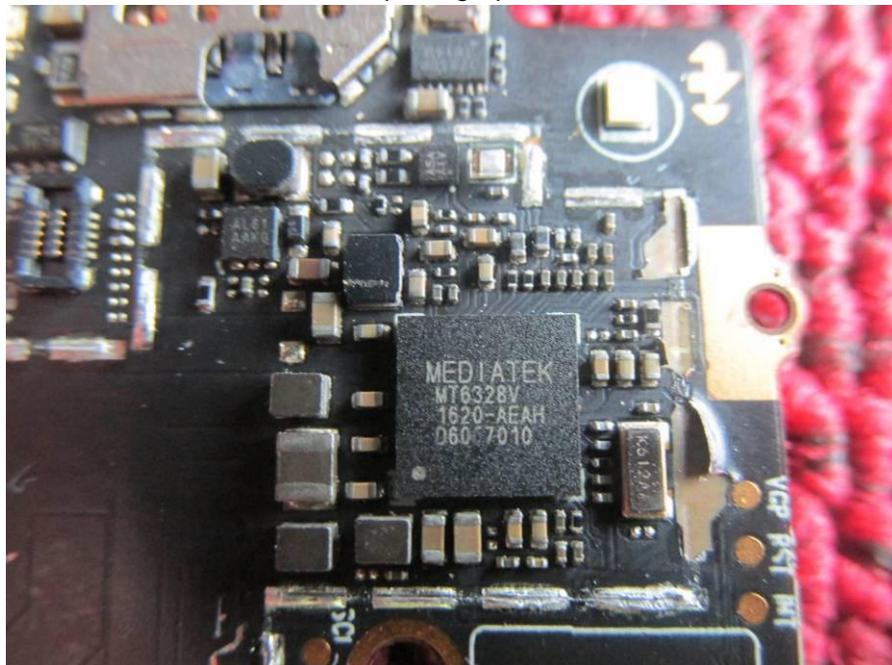
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



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