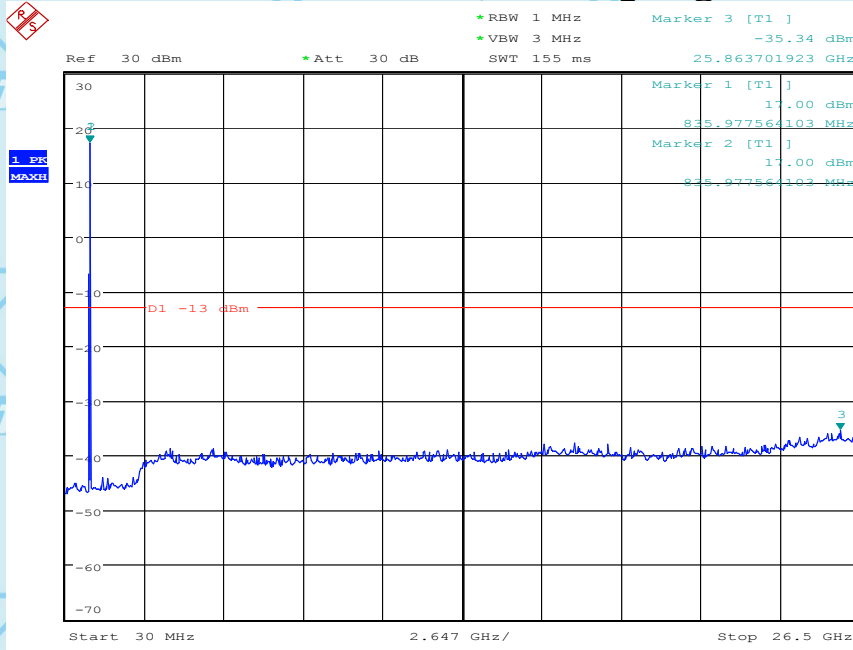




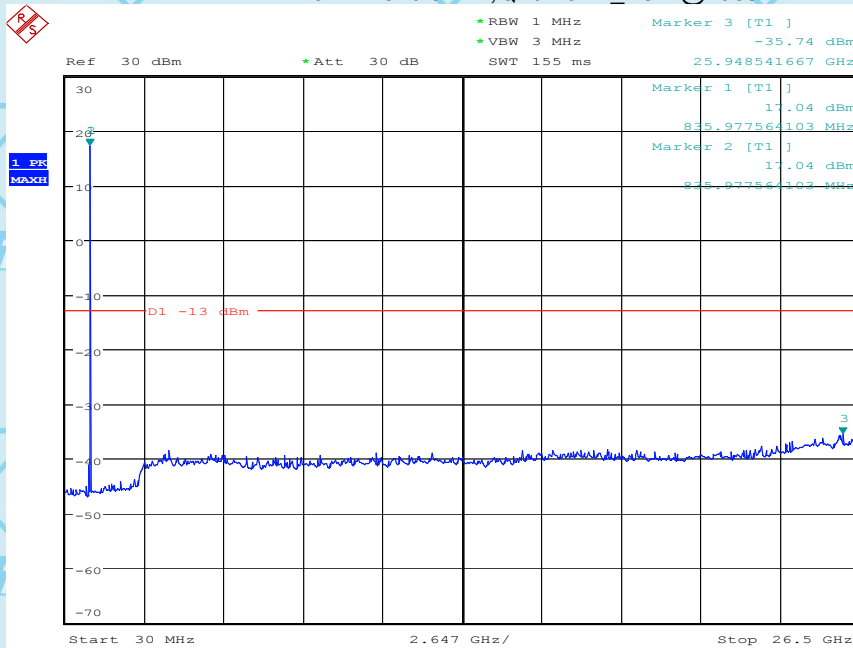
For Question,
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BW5MHz-836.5MHz,QPSK-25RB_LOW@Pass



Date: 17.JUL.2018 20:16:17

BW5MHz-846.5MHz,Q16-25RB_LOW@Pass



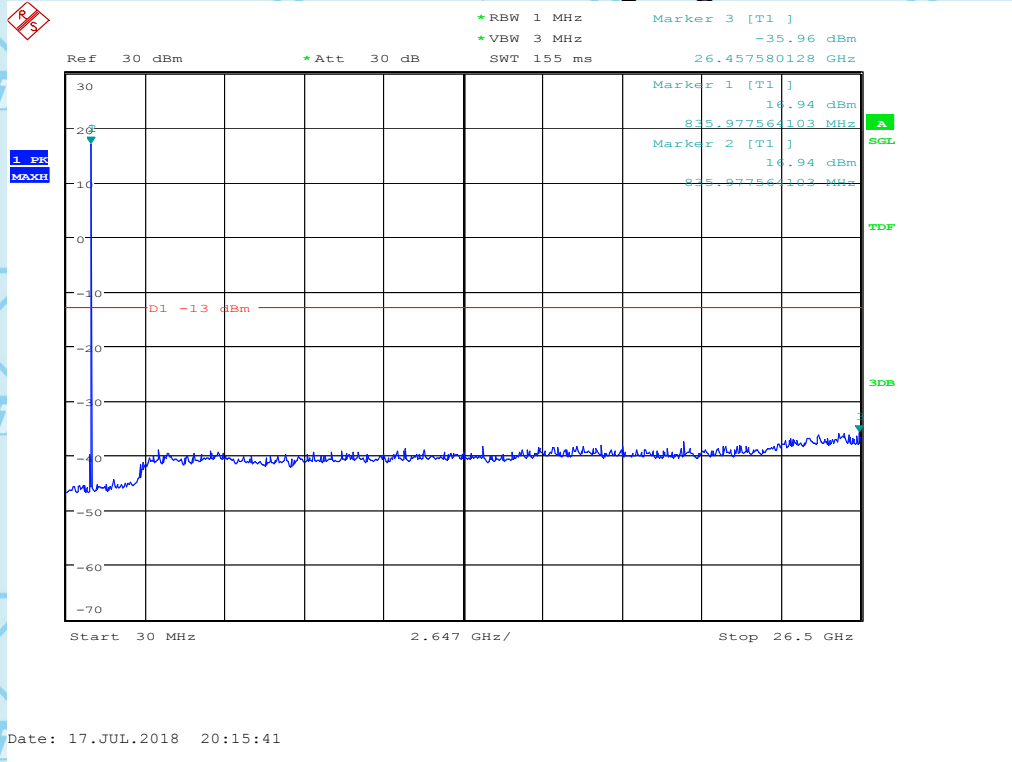
Date: 17.JUL.2018 20:15:59





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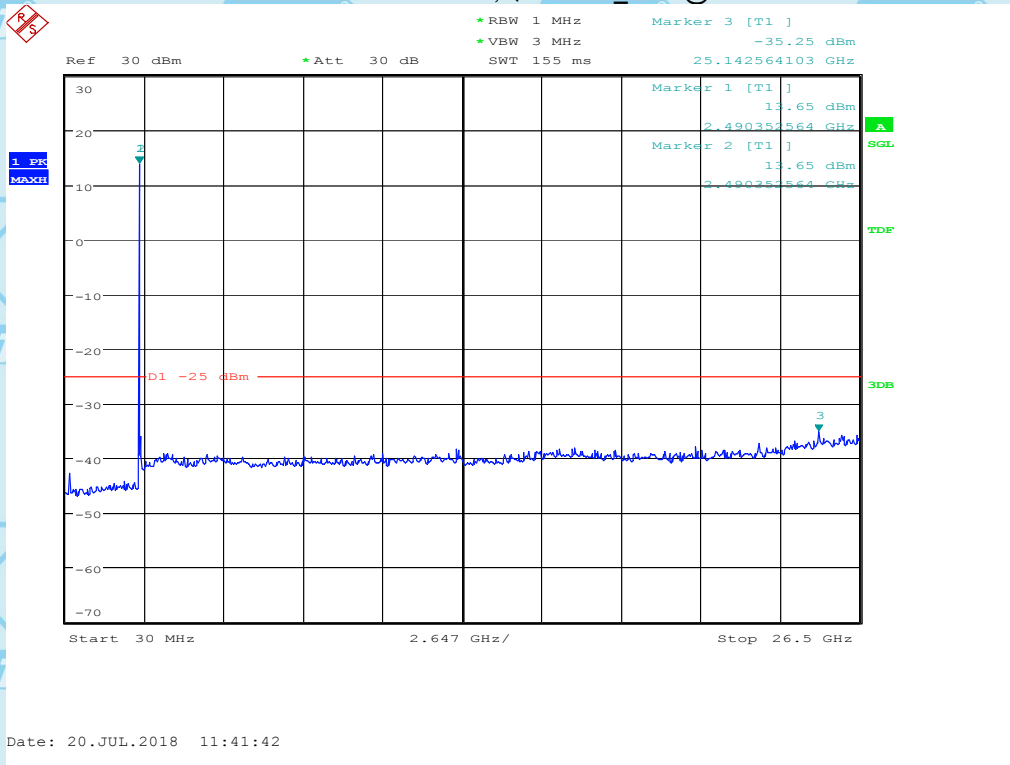
BW5MHz-846.5MHz,QPSK-25RB_LOW@Pass



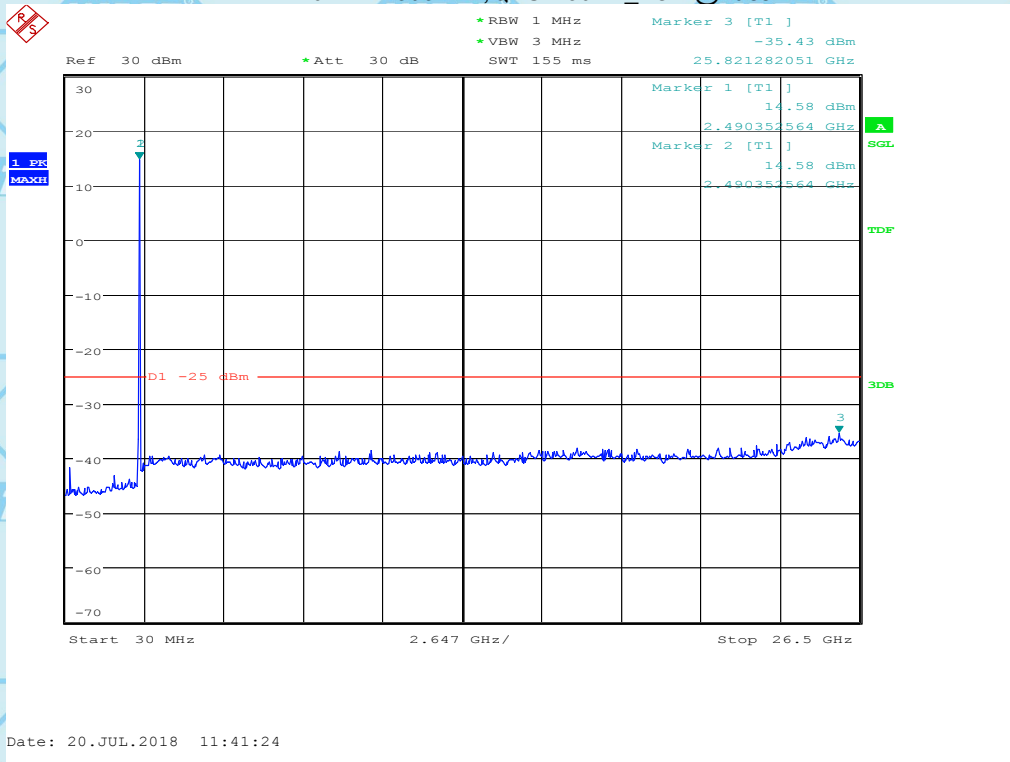


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BAND 7@Conducted Spurious Emission BW10MHz-2505MHz,Q16-50RB_LOW@Pass



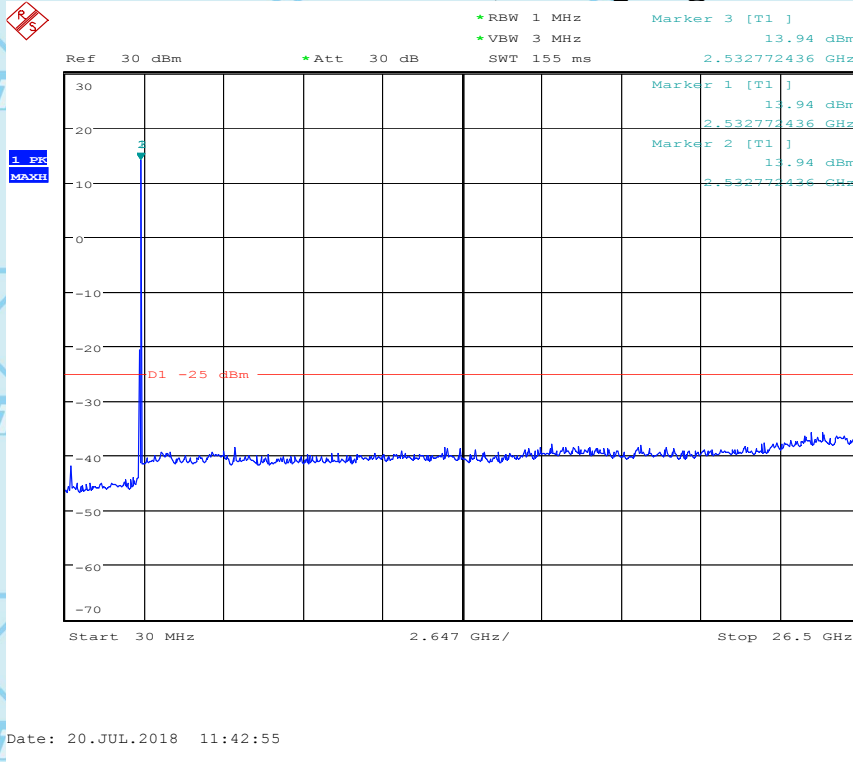
BW10MHz-2505MHz,QPSK-50RB_LOW@Pass



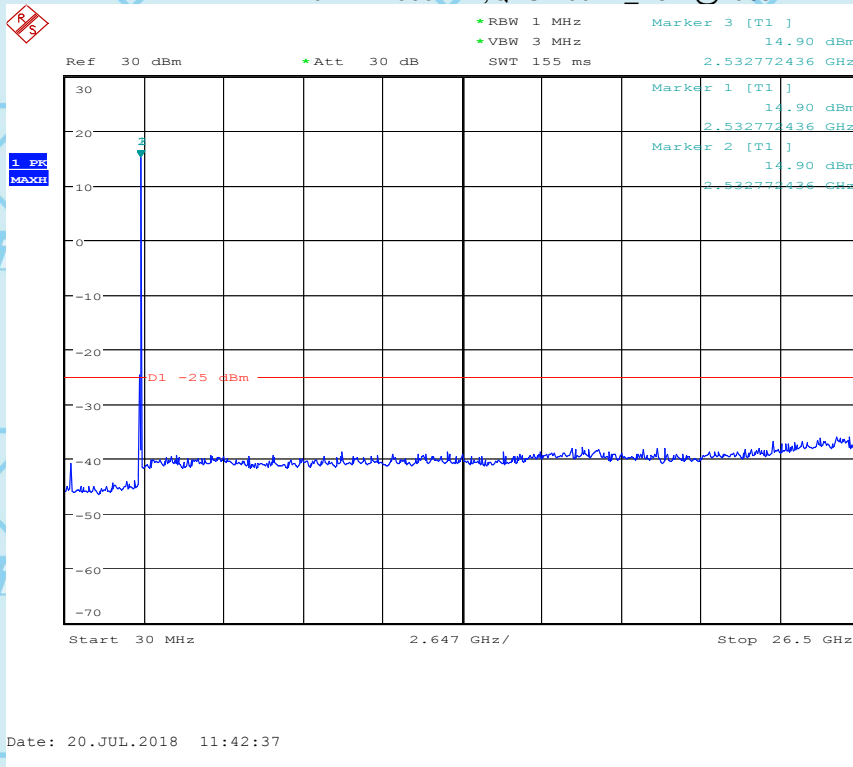


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BW10MHz-2535MHz,Q16-50RB_LOW@Pass



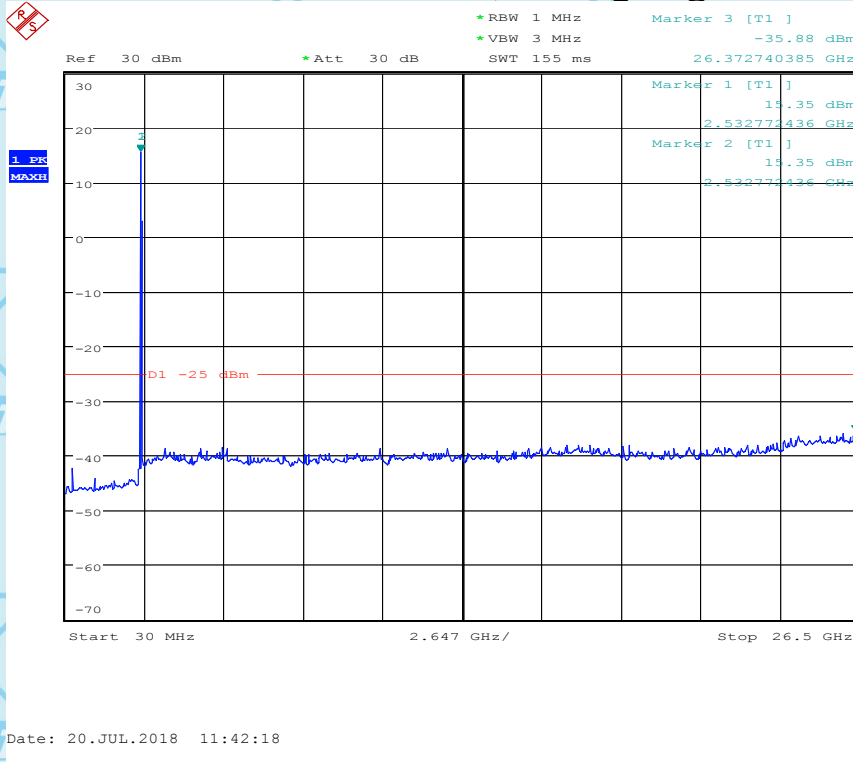
BW10MHz-2535MHz,QPSK-50RB_LOW@Pass



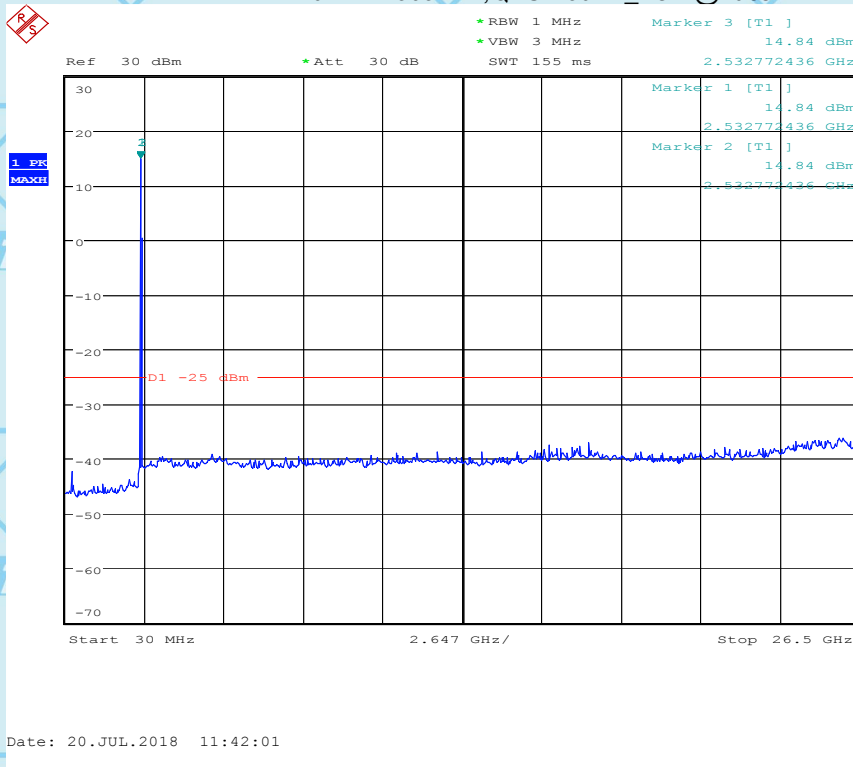


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BW10MHz-2565MHz,Q16-50RB_LOW@Pass



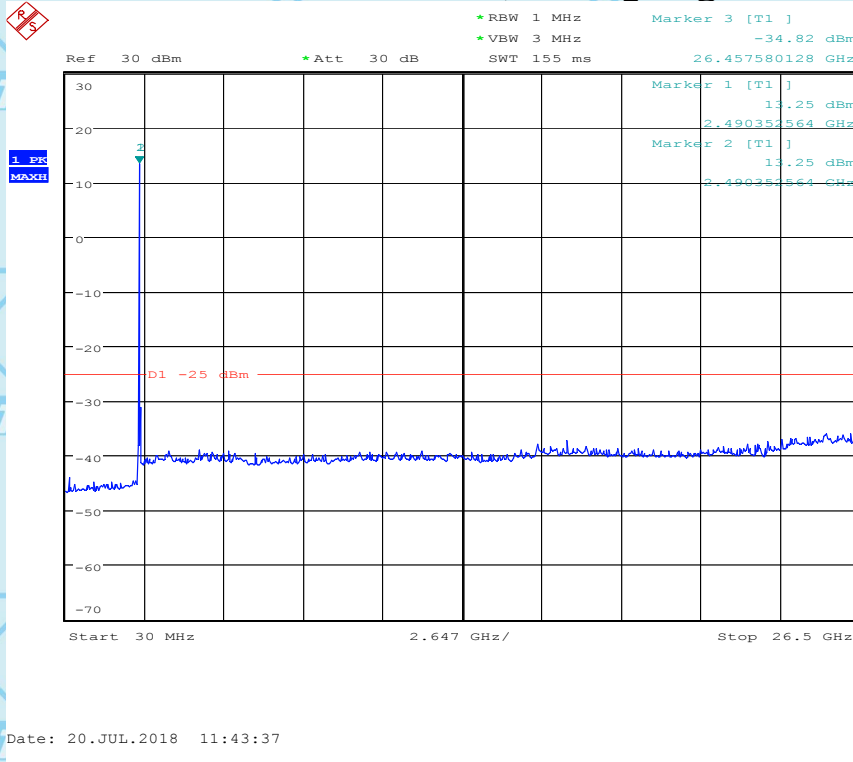
BW10MHz-2565MHz,QPSK-50RB_LOW@Pass



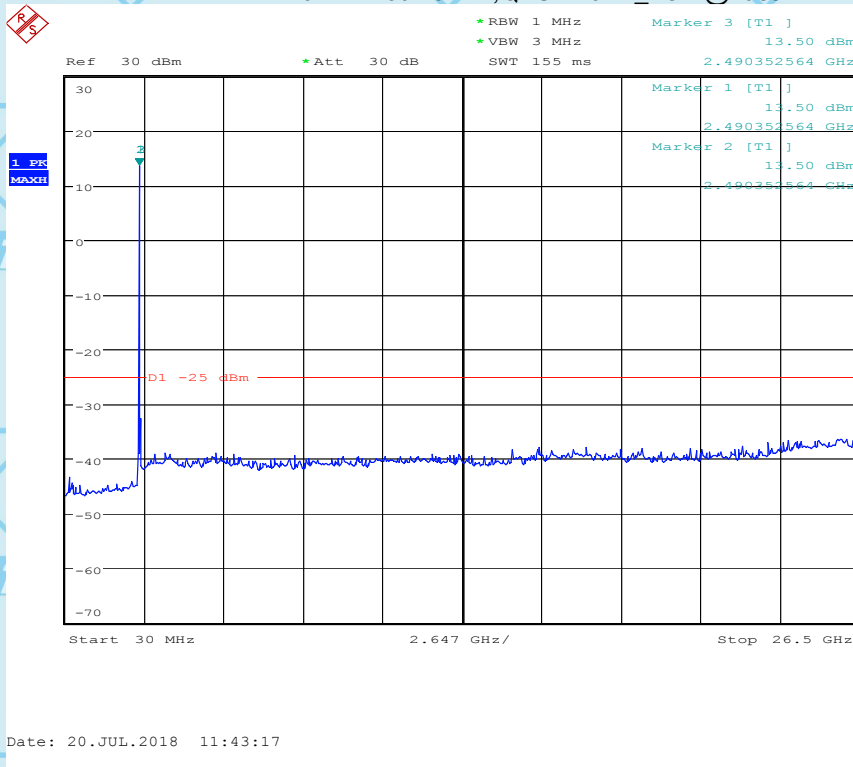


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BW15MHz-2507.5MHz,Q16-75RB_LOW@Pass



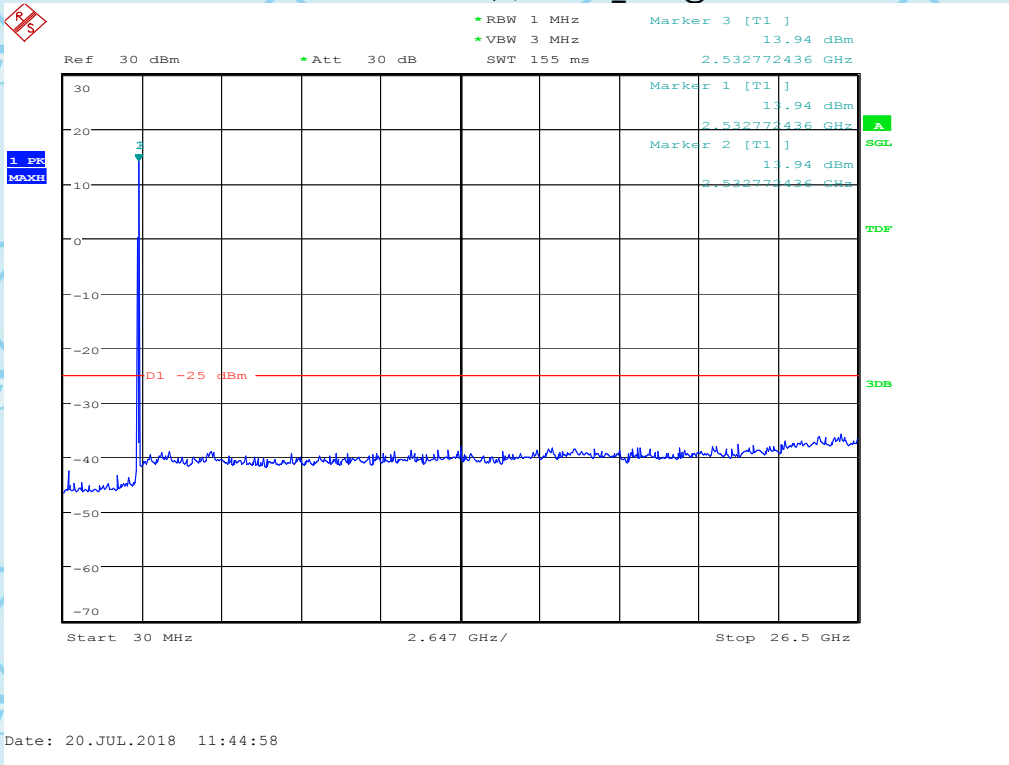
BW15MHz-2507.5MHz,QPSK-75RB_LOW@Pass



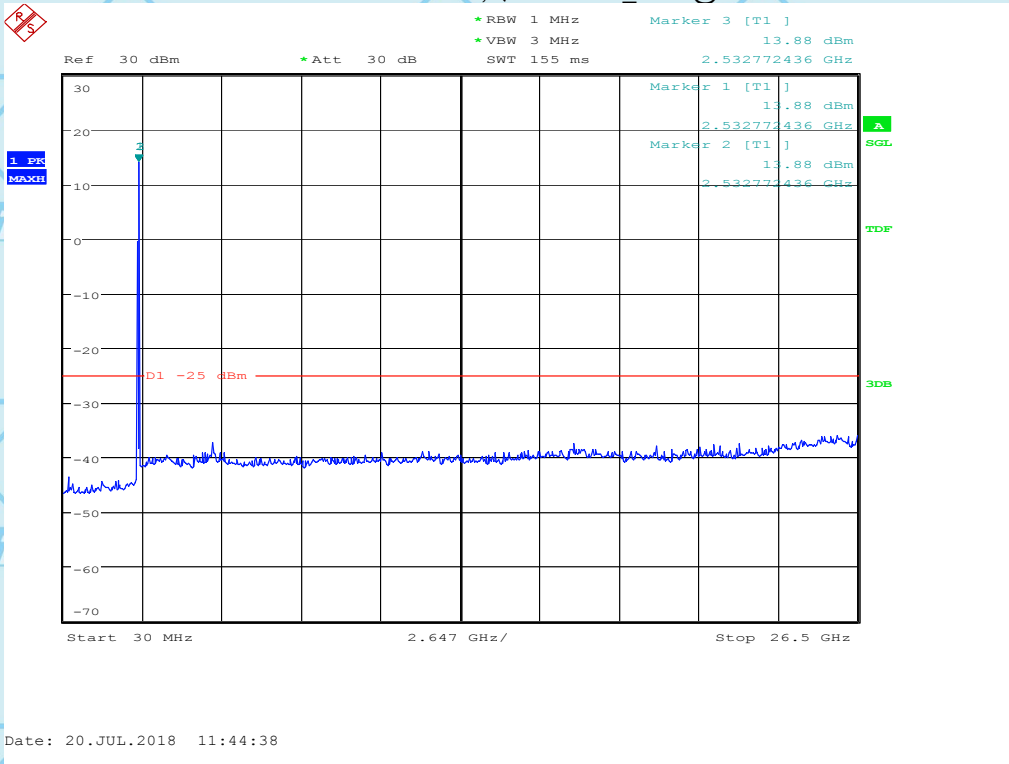


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BW15MHz-2535MHz,Q16-75RB_LOW@Pass



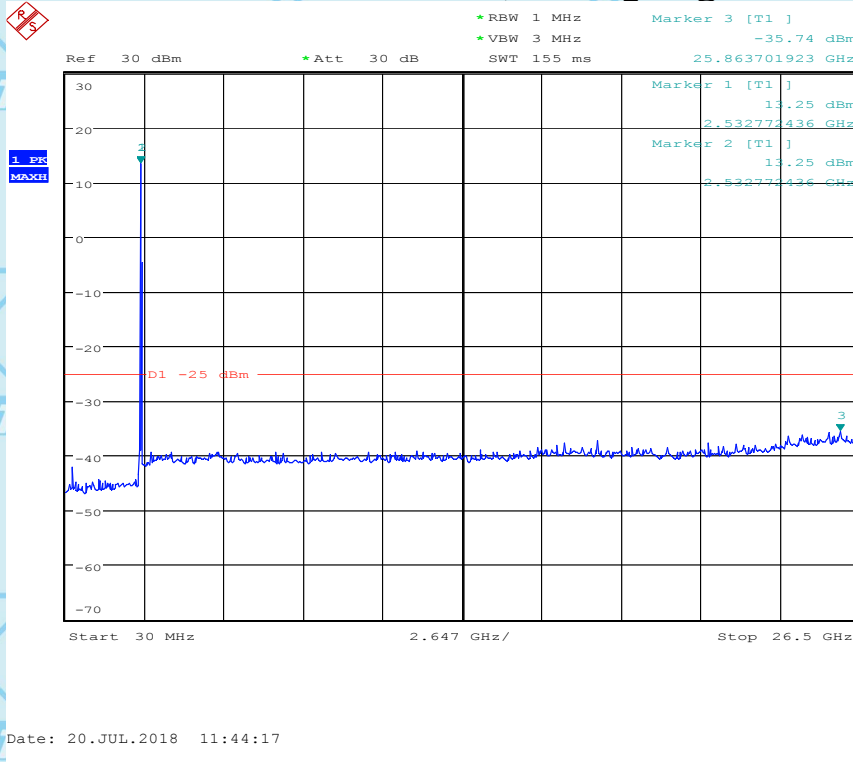
BW15MHz-2535MHz,QPSK-75RB_LOW@Pass



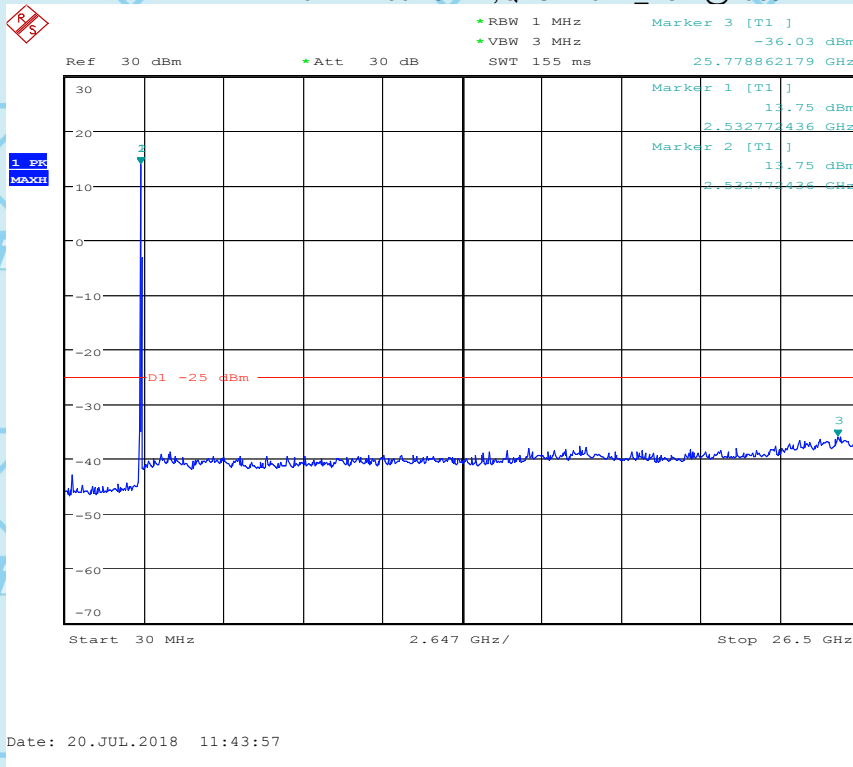


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BW15MHz-2562.5MHz,Q16-75RB_LOW@Pass



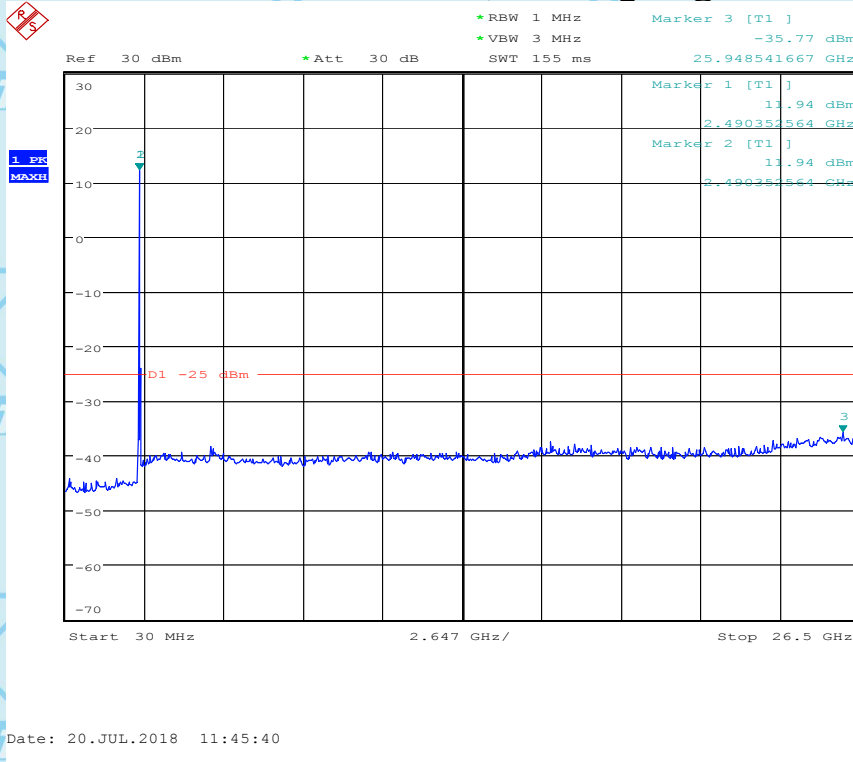
BW15MHz-2562.5MHz,QPSK-75RB_LOW@Pass



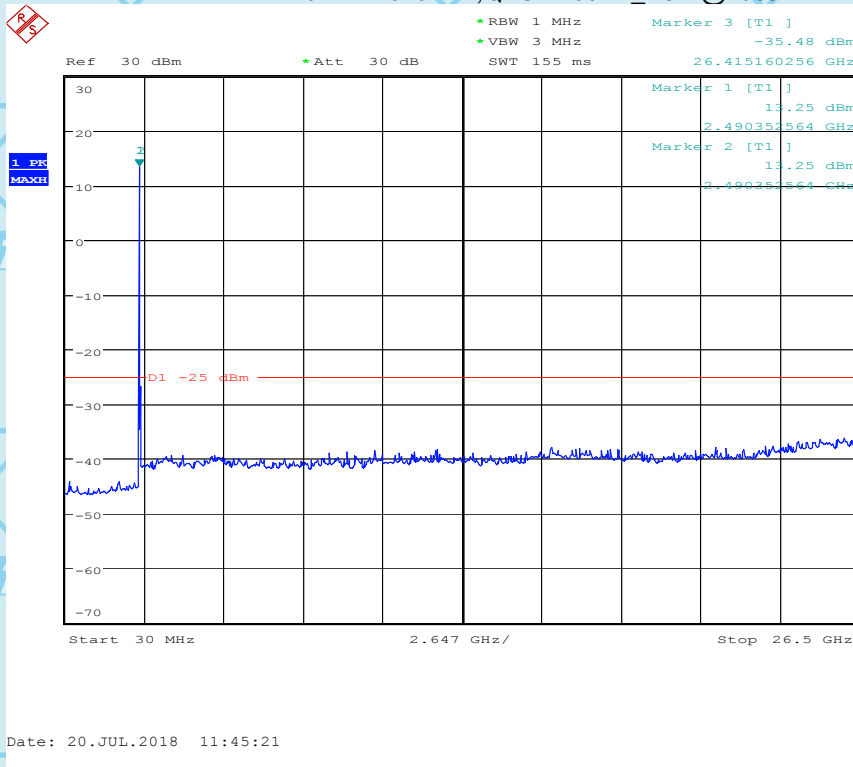


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BW20MHz-2510MHz,Q16-100RB_LOW@Pass



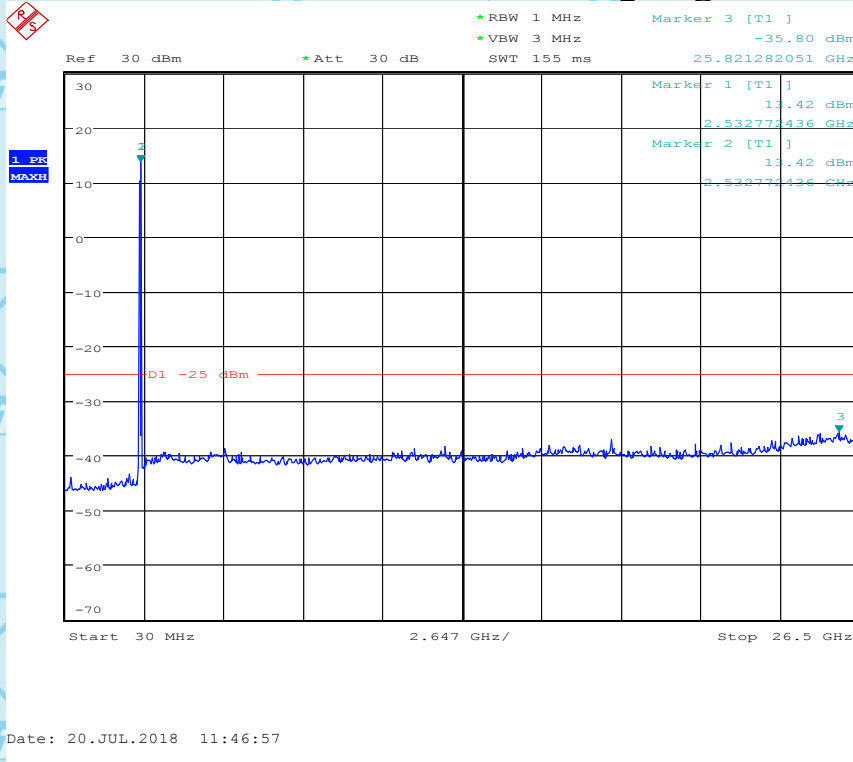
BW20MHz-2510MHz,QPSK-100RB_LOW@Pass



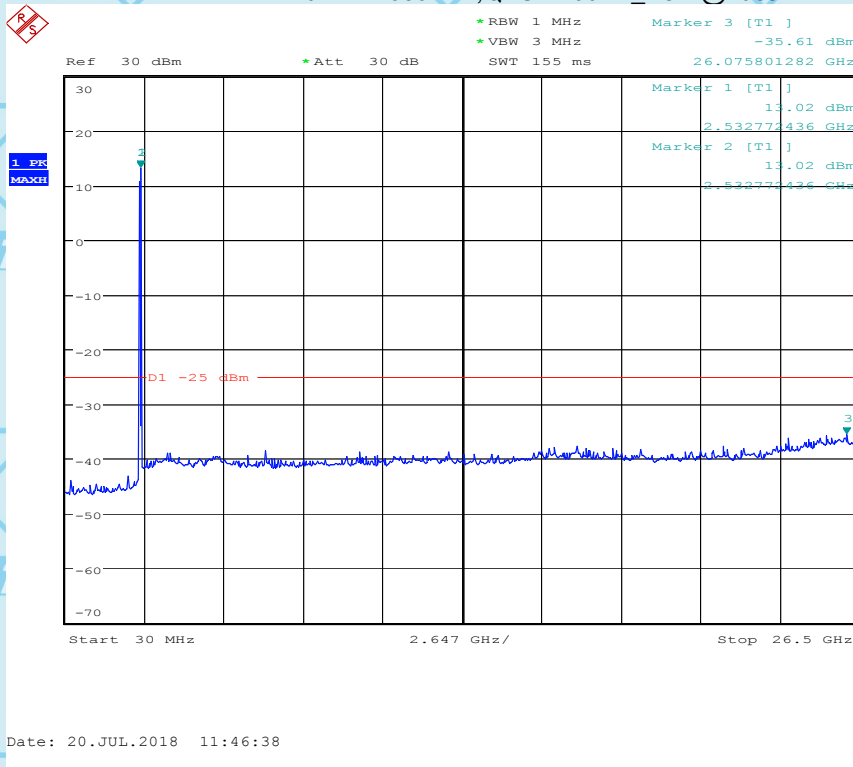


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BW20MHz-2535MHz,Q16-100RB_LOW@Pass



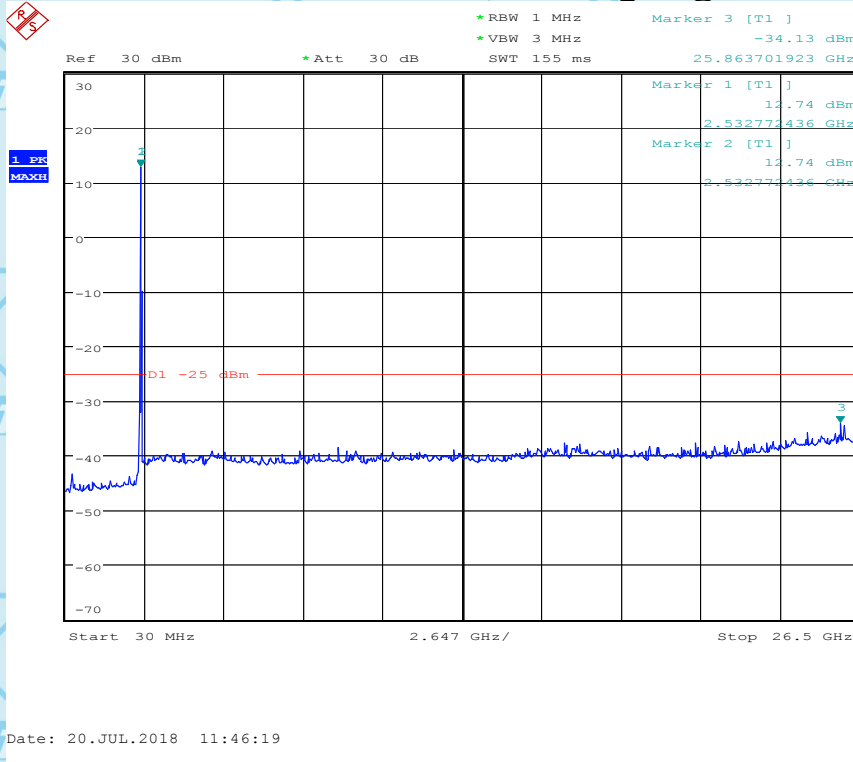
BW20MHz-2535MHz,QPSK-100RB_LOW@Pass



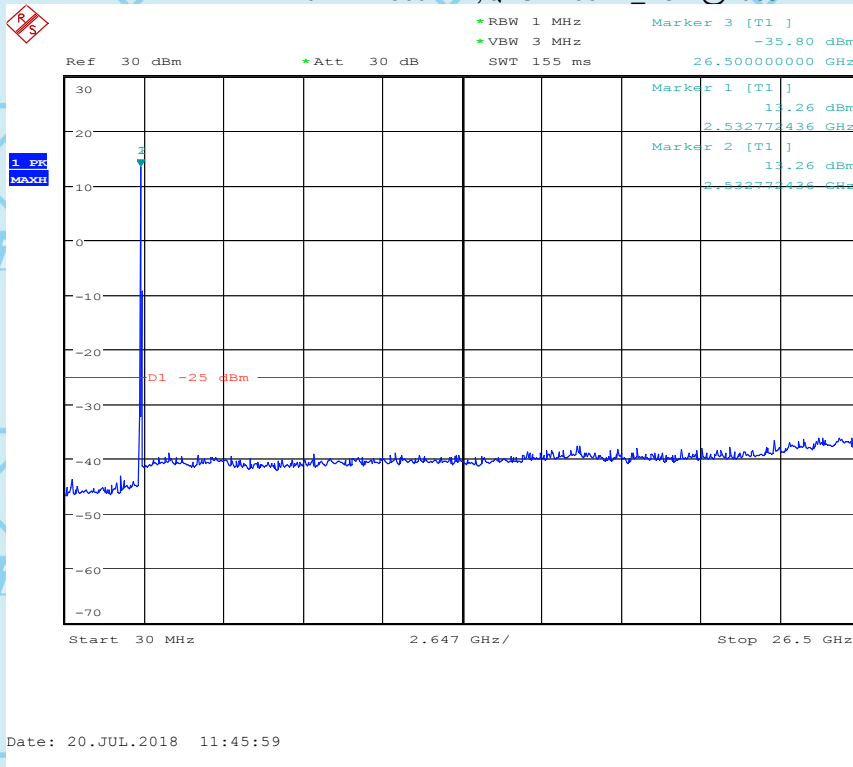


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BW20MHz-2560MHz,Q16-100RB_LOW@Pass



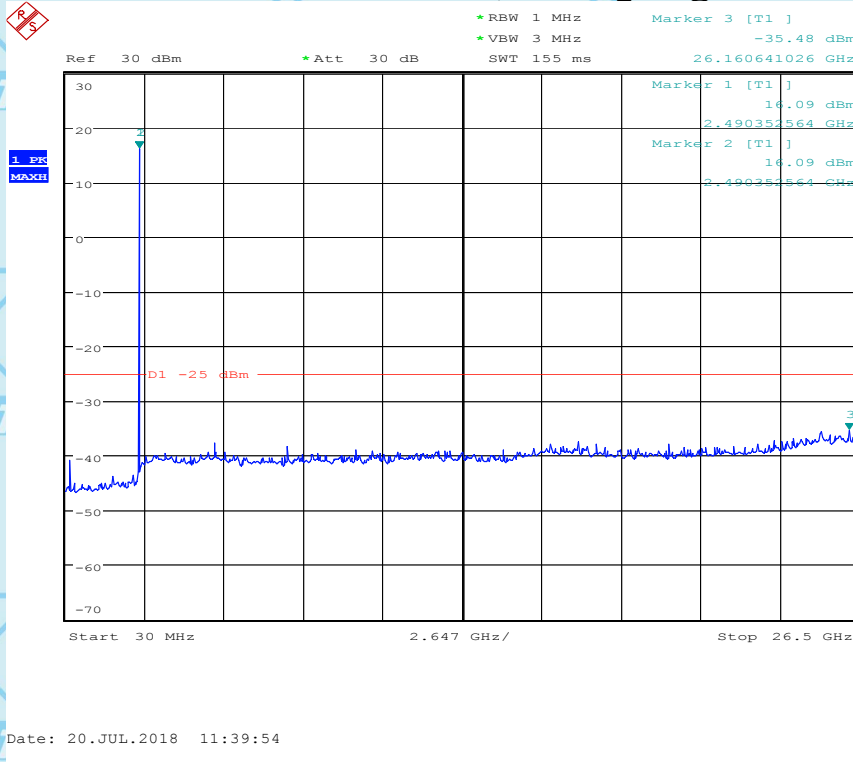
BW20MHz-2560MHz,QPSK-100RB_LOW@Pass



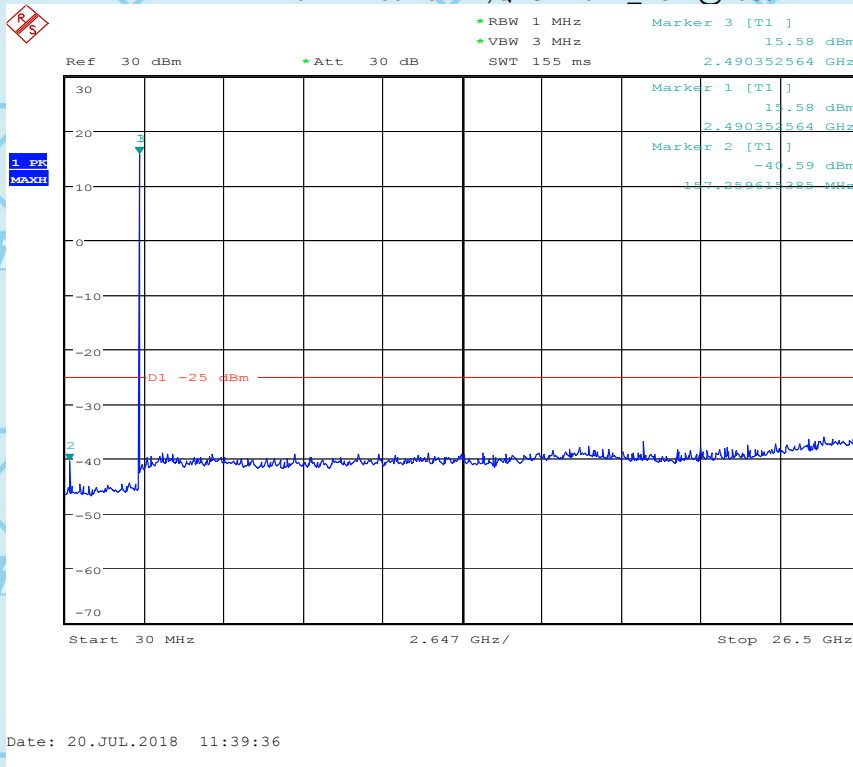


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BW5MHz-2502.5MHz,Q16-25RB_LOW@Pass



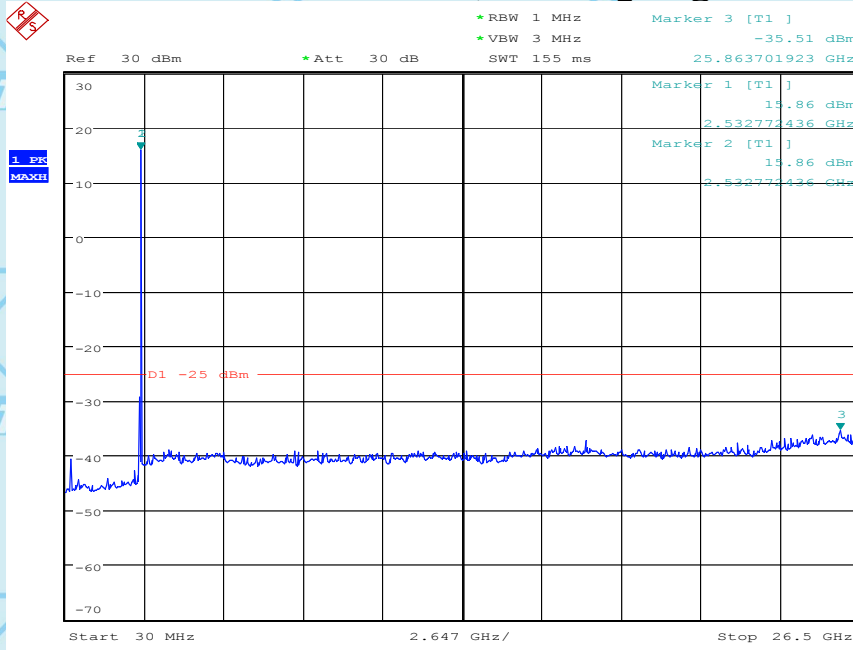
BW5MHz-2502.5MHz,QPSK-25RB_LOW@Pass





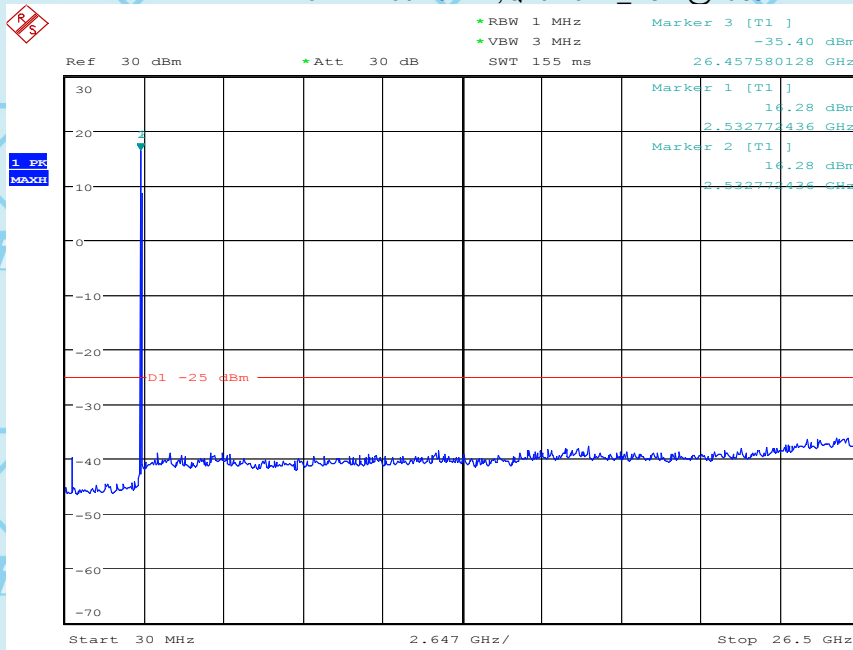
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BW5MHz-2535MHz,QPSK-25RB_LOW@Pass



Date: 20.JUL.2018 11:41:04

BW5MHz-2567.5MHz,Q16-25RB_LOW@Pass



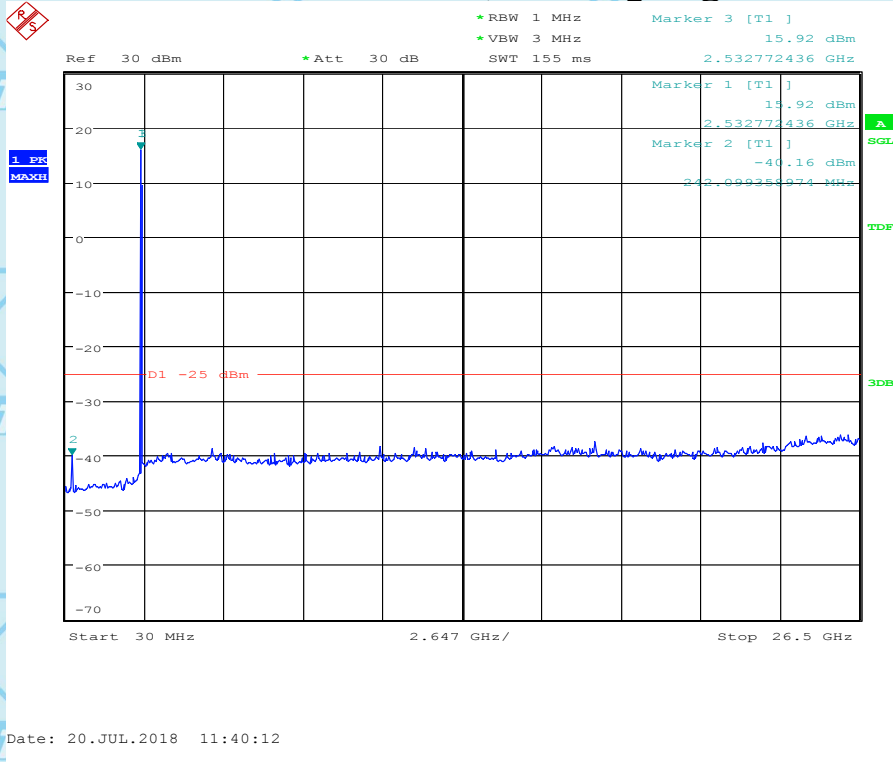
Date: 20.JUL.2018 11:40:29





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BW5MHz-2567.5MHz,QPSK-25RB_LOW@Pass





Radiated method

Test limit:

The spurious (unwanted) emission limits specified in the individual FCC rule parts applicable to licensed digital transmitters (typically referred to under the heading 'emission limits') normally apply to any and all emissions that are present outside of the authorized frequency band/block and apply to emissions in both the out-of-band and spurious domains. In some rule parts, the unwanted emission limits are specified by an emission mask that defines the applicable limit as a function of the frequency range relative to the authorized frequency block.

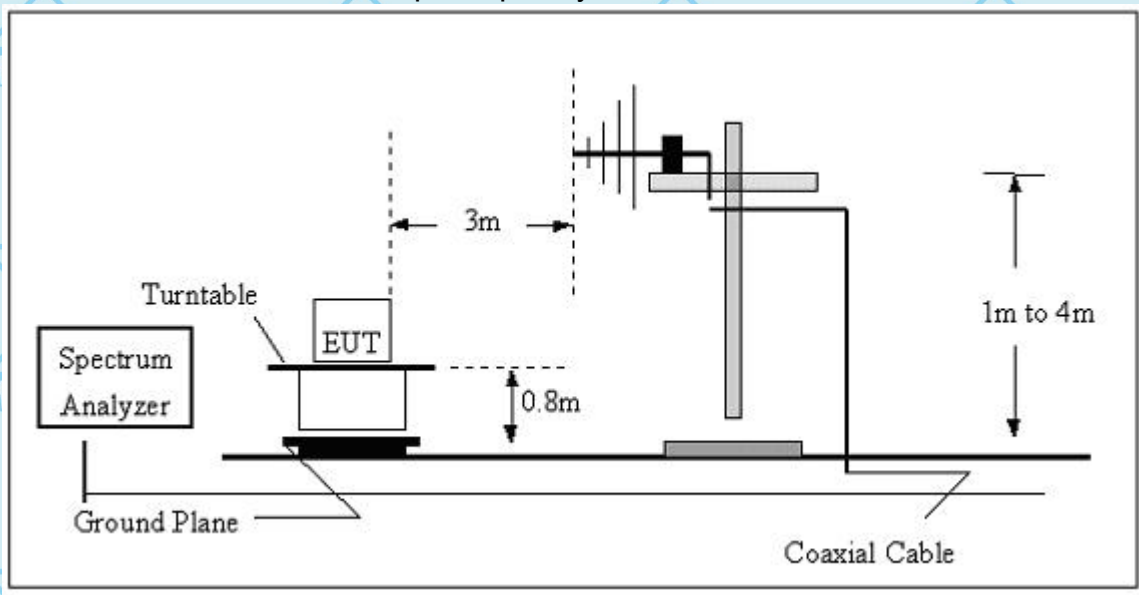
Typically, unwanted emissions are required by the licensed rule parts to be attenuated below the transmitter power by a factor of at least $X + 10\log(P)$ dB, where P represents the transmitter power expressed in watts and X is a specified scalar value (e.g., 43). This specification can be interpreted in one of two equivalent ways. First, the required attenuation can be construed to be relative to the mean carrier power, with the resultant of the equation $X + 10\log(P)$ being expressed in dBc (dB relative to the maximum carrier power). Alternatively, the specification can be interpreted as an absolute limit when the specified attenuation is actually subtracted from the maximum permissible transmitter power [i.e., $10\log(P) - \{X + 10\log(P)\}$], resulting in an absolute level of -X dBW [or $(-X + 30)$ dBm]. See section 4.

Test procedure:

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site. The resolution bandwidth of the spectrum analyzer was set at 100 kHz below 1 GHz and 1 MHz above 1 GHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonics.

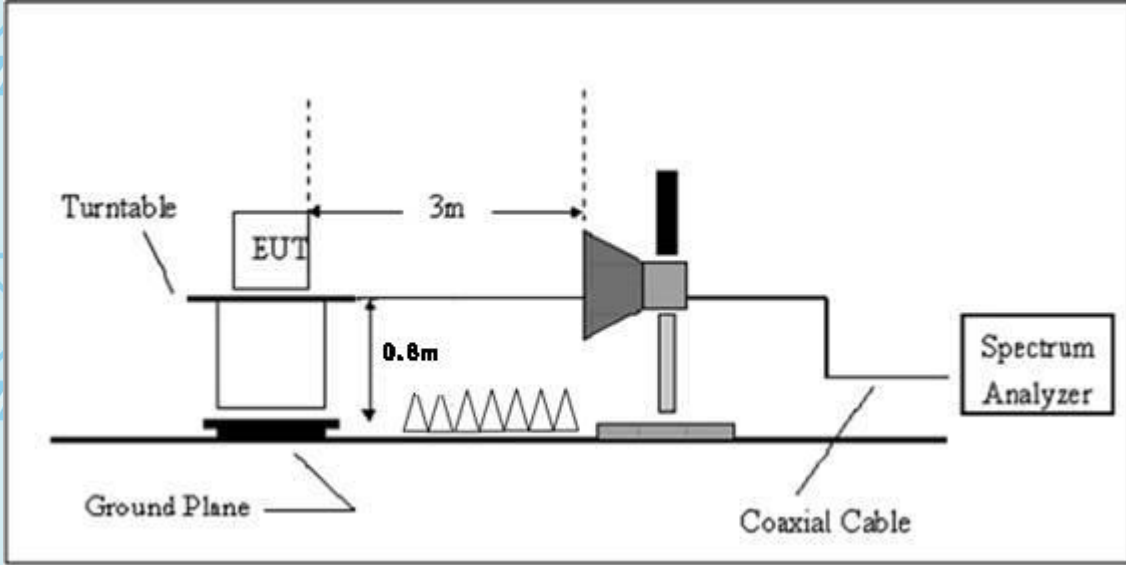
Test setup:

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz





(B) Radiated Emission Test-Up Frequency Above 1GHz



Note:

- 1, Below 30MHz no Spurious found.
- 2, UE is positioned at 3 axis at the pre-scan stage, and only the measurement of the worst case (bandwidth: 20MHz / Full RB / QPSK) is reported in this part.





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**List of final test modes:
GSM850:**

| Mode | UL Channel | Frequency | Judgement |
|------|------------|-----------|-----------|
| 1 | 128 | 824.2 | Pass |
| 2 | 190 | 836.6 | Pass |
| 3 | 251 | 848.8 | Pass |

PCS1900

| Mode | UL Channel | Frequency | Judgement |
|------|------------|-----------|-----------|
| 1 | 512 | 1850.2 | Pass |
| 2 | 661 | 1880 | Pass |
| 3 | 810 | 1909.8 | Pass |

**UTRA BANDS
BAND 2:**

| Mode | UL Channel | Frequency | Judgement |
|------|------------|-----------|-----------|
| 1 | 9262 | 1852.4 | Pass |
| 2 | 9400 | 1880 | Pass |
| 3 | 9538 | 1907.6 | Pass |

BAND 4:

| Mode | UL Channel | Frequency | Judgement |
|------|------------|-----------|-----------|
| 1 | 1312 | 1712.4 | Pass |
| 2 | 1413 | 1732.6 | Pass |
| 3 | 1513 | 1752.6 | Pass |

BAND 5:

| Mode | UL Channel | Frequency | Judgement |
|------|------------|-----------|-----------|
| 1 | 4132 | 826.4 | Pass |
| 2 | 4182 | 836.4 | Pass |
| 3 | 4233 | 846.6 | Pass |





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E-UTRA BANDS

This is the worst pattern data

BAND 2:

| Mode | Bandwidth | UL Channel | Frequency | Modulation | RB Size | RB Offset | Judgement |
|------|-----------|------------|-----------|------------|---------|-----------|-----------|
| 1 | 20 | 18700 | 1860 | QPSK | 100 | LOW | Pass |
| 2 | 20 | 18900 | 1880 | QPSK | 100 | LOW | Pass |
| 3 | 20 | 19100 | 1900 | QPSK | 100 | LOW | Pass |

BAND 4:

| Mode | Bandwidth | UL Channel | Frequency | Modulation | RB Size | RB Offset | Judgement |
|------|-----------|------------|-----------|------------|---------|-----------|-----------|
| 1 | 20 | 20050 | 1720 | Q16 | 100 | LOW | Pass |
| 2 | 20 | 20300 | 1745 | Q16 | 100 | LOW | Pass |
| 3 | 20 | 20175 | 1732.5 | Q16 | 100 | LOW | Pass |

BAND 5:

| Mode | Bandwidth | UL Channel | Frequency | Modulation | RB Size | RB Offset | Judgement |
|------|-----------|------------|-----------|------------|---------|-----------|-----------|
| 1 | 10 | 20450 | 829 | QPSK | 50 | LOW | Pass |
| 2 | 10 | 20525 | 836.5 | QPSK | 50 | LOW | Pass |
| 3 | 10 | 20600 | 844 | QPSK | 50 | LOW | Pass |

BAND 7:

| Mode | Bandwidth | UL Channel | Frequency | Modulation | RB Size | RB Offset | Judgement |
|------|-----------|------------|-----------|------------|---------|-----------|-----------|
| 1 | 20 | 20850 | 2510 | QPSK | 100 | LOW | Pass |
| 2 | 20 | 21350 | 2560 | QPSK | 100 | LOW | Pass |
| 3 | 20 | 21100 | 2535 | QPSK | 100 | LOW | Pass |




 Test record:
 Note:

- The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the AR_{pl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

$$Power = P_{Mea} + AR_{pl}$$

- $AR_{pl} = \text{Cable loss} + \text{Antenna gain}$

GSM850:

| Mode 1 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 1648.4 | -34.22 | 0.5 | -34.72 | -13 | Horizontal |
| 1648.4 | -30.20 | 0.5 | -30.70 | -13 | Vertical |
| 2472.6 | -31.63 | 0.5 | -32.13 | -13 | Horizontal |
| 2472.6 | -33.14 | 0.5 | -33.64 | -13 | Vertical |

| Mode 2 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 1673.2 | -30.44 | 0.5 | -30.94 | -13 | Horizontal |
| 1673.2 | -33.99 | 0.5 | -34.49 | -13 | Vertical |
| 2509.8 | -35.34 | 0.5 | -35.84 | -13 | Horizontal |
| 2509.8 | -35.89 | 0.5 | -36.39 | -13 | Vertical |

| Mode 3 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 1697.6 | -31.20 | 0.5 | -31.70 | -13 | Horizontal |
| 1697.6 | -30.82 | 0.5 | -31.32 | -13 | Vertical |
| 2546.4 | -36.65 | 0.5 | -37.15 | -13 | Horizontal |
| 2546.4 | -34.45 | 0.5 | -34.95 | -13 | Vertical |

PCS1900:

| Mode 1 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3700.4 | -35.61 | 1.48 | -37.09 | -13 | Horizontal |
| 3700.4 | -33.75 | 1.48 | -35.23 | -13 | Vertical |
| 5550.6 | -36.23 | 1.48 | -37.71 | -13 | Horizontal |
| 5550.6 | -28.19 | 1.48 | -29.67 | -13 | Vertical |

| Mode 2 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3760 | -37.88 | 1.48 | -39.36 | -13 | Horizontal |
| 3760 | -33.66 | 1.48 | -35.14 | -13 | Vertical |
| 5640 | -34.89 | 1.48 | -36.37 | -13 | Horizontal |
| 5640 | -31.91 | 1.48 | -33.39 | -13 | Vertical |




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| Mode 3 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3819.6 | -33.83 | 1.48 | -35.31 | -13 | Horizontal |
| 3819.6 | -30.57 | 1.48 | -32.05 | -13 | Vertical |
| 5729.4 | -28.84 | 1.48 | -30.32 | -13 | Horizontal |
| 5729.4 | -35.34 | 1.48 | -36.82 | -13 | Vertical |

**UTRA BANDS
 BAND 2:**

| Mode 1 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3704.8 | -60.10 | 1.48 | -61.58 | -13 | Horizontal |
| 3704.8 | -67.20 | 1.48 | -68.68 | -13 | Vertical |
| 5557.2 | -59.34 | 1.48 | -60.82 | -13 | Horizontal |
| 5557.2 | -60.35 | 1.48 | -61.83 | -13 | Vertical |

| Mode 2 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3760 | -61.00 | 1.48 | -62.48 | -13 | Horizontal |
| 3760 | -61.68 | 1.48 | -63.16 | -13 | Vertical |
| 5640 | -61.62 | 1.48 | -63.10 | -13 | Horizontal |
| 5640 | -59.91 | 1.48 | -61.39 | -13 | Vertical |

| Mode 3 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3815.2 | -61.22 | 1.48 | -62.70 | -13 | Horizontal |
| 3815.2 | -64.58 | 1.48 | -66.06 | -13 | Vertical |
| 5722.8 | -59.01 | 1.48 | -60.49 | -13 | Horizontal |
| 5722.8 | -66.51 | 1.48 | -67.99 | -13 | Vertical |

BAND 4:

| Mode 1 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3424.8 | -67.50 | 1.47 | -68.97 | -13 | Horizontal |
| 3424.8 | -66.94 | 1.47 | -68.41 | -13 | Vertical |
| 5137.2 | -67.70 | 1.47 | -69.17 | -13 | Horizontal |
| 5137.2 | -64.08 | 1.47 | -65.55 | -13 | Vertical |

| Mode 2 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3465.2 | -66.25 | 1.47 | -67.72 | -13 | Horizontal |
| 3465.2 | -63.73 | 1.47 | -65.20 | -13 | Vertical |
| 5197.8 | -66.42 | 1.47 | -67.89 | -13 | Horizontal |
| 5197.8 | -62.57 | 1.47 | -64.04 | -13 | Vertical |

| Mode 3 | | | | | |
|--------|--|--|--|--|--|
|--------|--|--|--|--|--|



| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
|----------------|------------|------------|-----------|-------------|------------|
| 3505.2 | -65.64 | 1.47 | -67.11 | -13 | Horizontal |
| 3505.2 | -65.37 | 1.47 | -66.84 | -13 | Vertical |
| 5257.8 | -64.30 | 1.47 | -65.77 | -13 | Horizontal |
| 5257.8 | -65.66 | 1.47 | -67.13 | -13 | Vertical |

BAND 5:

| Mode 1 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 1652.8 | -63.79 | 0.5 | -64.29 | -13 | Horizontal |
| 1652.8 | -61.90 | 0.5 | -62.40 | -13 | Vertical |
| 2479.2 | -63.19 | 0.5 | -63.69 | -13 | Horizontal |
| 2479.2 | -63.65 | 0.5 | -64.15 | -13 | Vertical |

| Mode 2 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 1672.8 | -61.77 | 0.5 | -62.27 | -13 | Horizontal |
| 1672.8 | -63.45 | 0.5 | -63.95 | -13 | Vertical |
| 2509.2 | -65.30 | 0.5 | -65.80 | -13 | Horizontal |
| 2509.2 | -63.42 | 0.5 | -63.92 | -13 | Vertical |

| Mode 3 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 1693.2 | -58.33 | 0.5 | -58.83 | -13 | Horizontal |
| 1693.2 | -61.85 | 0.5 | -62.35 | -13 | Vertical |
| 2539.8 | -63.25 | 0.5 | -63.75 | -13 | Horizontal |
| 2539.8 | -64.95 | 0.5 | -65.45 | -13 | Vertical |

E-UTRA BANDS
BAND 2:

| Mode 1 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3720 | -64.55 | 1.51 | -66.06 | -13 | Horizontal |
| 3720 | -64.83 | 1.51 | -66.34 | -13 | Vertical |
| 5580 | -61.24 | 1.51 | -62.75 | -13 | Horizontal |
| 5580 | -59.76 | 1.51 | -61.27 | -13 | Vertical |

| Mode 2 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3760 | -58.70 | 1.51 | -60.21 | -13 | Horizontal |
| 3760 | -63.31 | 1.51 | -64.82 | -13 | Vertical |
| 5640 | -59.47 | 1.51 | -60.98 | -13 | Horizontal |
| 5640 | -61.22 | 1.51 | -62.73 | -13 | Vertical |

| Mode 3 | | | | | |
|----------------|------------|------------|-----------|-------------|----------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |


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| | | | | | |
|------|--------|------|--------|-----|------------|
| 3800 | -62.59 | 1.51 | -64.10 | -13 | Horizontal |
| 3800 | -59.72 | 1.51 | -61.23 | -13 | Vertical |
| 5700 | -61.66 | 1.51 | -63.17 | -13 | Horizontal |
| 5700 | -64.16 | 1.51 | -65.67 | -13 | Vertical |

BAND 4:

| Mode 1 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3440 | -66.92 | 1.5 | -68.42 | -13 | Horizontal |
| 3440 | -63.70 | 1.5 | -65.20 | -13 | Vertical |
| 5160 | -67.91 | 1.5 | -69.41 | -13 | Horizontal |
| 5160 | -65.57 | 1.5 | -67.07 | -13 | Vertical |

| Mode 2 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3465 | -67.32 | 1.5 | -68.82 | -13 | Horizontal |
| 3465 | -58.28 | 1.5 | -59.78 | -13 | Vertical |
| 5197.5 | -67.52 | 1.5 | -69.02 | -13 | Horizontal |
| 5197.5 | -63.56 | 1.5 | -65.06 | -13 | Vertical |

| Mode 3 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 3490 | -61.20 | 1.5 | -62.70 | -13 | Horizontal |
| 3490 | -58.11 | 1.5 | -59.61 | -13 | Vertical |
| 5235 | -62.18 | 1.5 | -63.68 | -13 | Horizontal |
| 5235 | -62.10 | 1.5 | -63.60 | -13 | Vertical |

BAND 5:

| Mode 1 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 1658 | -62.20 | 0.5 | -62.70 | -13 | Horizontal |
| 1658 | -58.96 | 0.5 | -59.46 | -13 | Vertical |
| 2487 | -58.19 | 0.5 | -58.69 | -13 | Horizontal |
| 2487 | -67.86 | 0.5 | -68.36 | -13 | Vertical |

| Mode 2 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 1673 | -67.75 | 0.5 | -68.25 | -13 | Horizontal |
| 1673 | -65.05 | 0.5 | -65.55 | -13 | Vertical |
| 2509.5 | -58.21 | 0.5 | -58.71 | -13 | Horizontal |
| 2509.5 | -61.62 | 0.5 | -62.12 | -13 | Vertical |

| Mode 3 | | | | | |
|----------------|------------|------------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl (dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 1688 | -65.45 | 0.5 | -65.95 | -13 | Horizontal |



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| | | | | | |
|------|--------|-----|--------|-----|------------|
| 1688 | -59.45 | 0.5 | -59.95 | -13 | Vertical |
| 2532 | -59.37 | 0.5 | -59.87 | -13 | Horizontal |
| 2532 | -59.05 | 0.5 | -59.55 | -13 | Vertical |

BAND 7:

| Mode 1 | | | | | |
|----------------|------------|-----------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl(dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 5020 | -62.47 | 1.52 | -63.99 | -25 | Horizontal |
| 5020 | -65.50 | 1.52 | -67.02 | -25 | Vertical |
| 7530 | -65.36 | 1.52 | -66.88 | -25 | Horizontal |
| 7530 | -61.21 | 1.52 | -62.73 | -25 | Vertical |

| Mode 2 | | | | | |
|----------------|------------|-----------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl(dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 5070 | -60.00 | 1.52 | -61.52 | -25 | Horizontal |
| 5070 | -63.46 | 1.52 | -64.98 | -25 | Vertical |
| 7605 | -67.91 | 1.52 | -69.43 | -25 | Horizontal |
| 7605 | -59.12 | 1.52 | -60.64 | -25 | Vertical |

| Mode 3 | | | | | |
|----------------|------------|-----------|-----------|-------------|------------|
| Frequency(MHz) | Power(dBm) | ARpl(dBm) | PMea(dBm) | Limit (dBm) | Polarity |
| 5120 | -66.59 | 1.52 | -68.11 | -25 | Horizontal |
| 5120 | -62.10 | 1.52 | -63.62 | -25 | Vertical |
| 7680 | -65.27 | 1.52 | -66.79 | -25 | Horizontal |
| 7680 | -66.18 | 1.52 | -67.70 | -25 | Vertical |





8. OCCUPIED BANDWIDTH & Emission Bandwidth

Test limit:

The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission, shall be measured when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated. The signal shall be applied through any filter networks, pseudo-random generators or other devices required in normal service. Additionally, the occupied bandwidth shall be shown for operation with any devices used for modifying the spectrum when such devices are optional at the discretion of the user. [j]2.1049(h)

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

The relative OBW must be measured and reported when it is specified in the applicable rule part; otherwise, the 99% OBW shall be measured and reported. The test report shall specify which OBW is reported.

A spectrum/signal analyzer or other instrument providing a spectral display is recommended for these measurements and the video bandwidth shall be set to a value at least three times greater than the IF/resolution bandwidth to avoid any amplitude smoothing. Video filtering shall not be used during occupied bandwidth tests.

The OBW shall be measured for all operating conditions that will affect the bandwidth results (e.g. variable modulations, coding, or channel bandwidth settings). See section 4.

Test procedure:

Occupied bandwidth – relative measurement procedure

The reference value is the highest level of the spectral envelope of the modulated signal.

- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- Set the reference level of the instrument as required to prevent the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least $10 \log (OBW / RBW)$ below the reference level.
- NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- The dynamic range of the spectrum analyzer at the selected RBW shall be at least 10 dB below the target “-X dB down” requirement (i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference value).
- Set the detection mode to peak, and the trace mode to max hold.
- Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- Determine the “-X dB down amplitude” as equal to (Reference Value – X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.
- Place two markers, one at the lowest and the other at the highest frequency of the



envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step g). If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

j) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Occupied bandwidth – power bandwidth (99%) measurement procedure

The following procedure shall be used for measuring (99 %) power bandwidth

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.

d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.

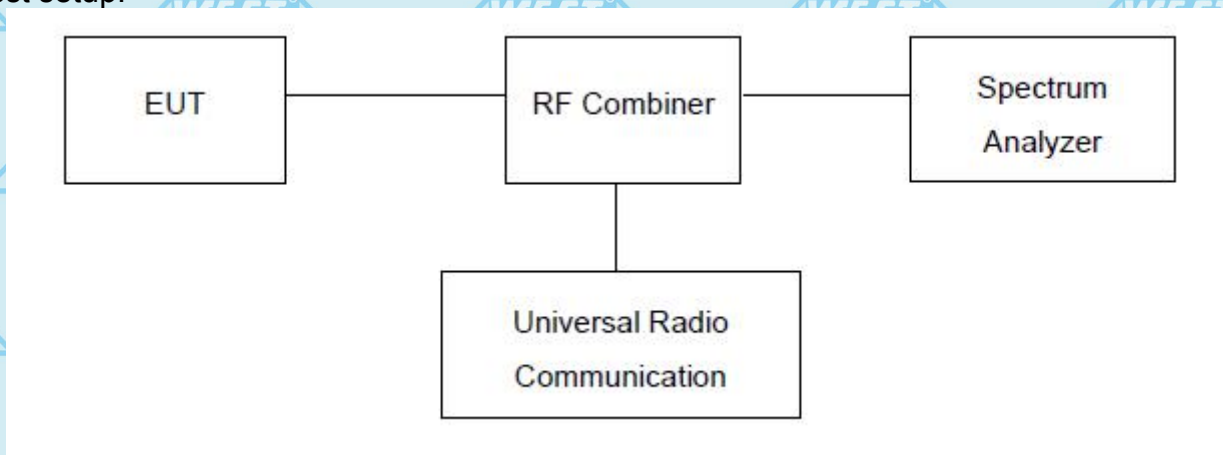
e) Set the detection mode to peak, and the trace mode to max hold..

f) Use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

g) If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

h) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Test setup:





Measurement Result

GSM850:

| Frequency | OBW(99%) | 26dB BW |
|-----------|------------|------------|
| 824.2 | 246.795KHz | 314.103KHz |
| 836.6 | 245.192KHz | 317.308KHz |
| 848.8 | 246.795KHz | 312.500KHz |

PCS1900:

| Frequency | OBW(99%) | 26dB BW |
|-----------|------------|------------|
| 1850.2 | 246.795KHz | 312.500KHz |
| 1880 | 248.397KHz | 317.308KHz |
| 1909.8 | 243.590KHz | 315.705KHz |

GPRS850:

| Frequency | OBW(99%) | 26dB BW |
|-----------|------------|------------|
| 824.2 | 243.590KHz | 318.910KHz |
| 836.6 | 243.590KHz | 315.705KHz |
| 848.8 | 245.192KHz | 315.705KHz |

GPRS 1900:

| Frequency | OBW(99%) | 26dB BW |
|-----------|------------|------------|
| 1850.2 | 246.795KHz | 314.103KHz |
| 1880 | 245.192KHz | 310.897KHz |
| 1909.8 | 243.590KHz | 314.103KHz |





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EGPRS 850:

| Frequency | OBW(99%) | 26dB BW |
|-----------|------------|------------|
| 824.2 | 241.987KHz | 314.103KHz |
| 836.6 | 241.987KHz | 306.090KHz |
| 848.8 | 243.590KHz | 314.103KHz |

EGPRS 1900:

| Frequency | OBW(99%) | 26dB BW |
|-----------|------------|------------|
| 1850.2 | 240.385KHz | 298.077KHz |
| 1880 | 245.192KHz | 306.090KHz |
| 1909.8 | 243.590KHz | 310.897KHz |





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ULTRA BANDS
BAND 2:

| Frequency | OBW(99%) | 26dB BW |
|-----------|----------|----------|
| 1852.4 | 4.135MHz | 4.712MHz |
| 1880 | 4.151MHz | 4.712MHz |
| 1907.6 | 4.151MHz | 4.760MHz |

BAND 4:

| Frequency | OBW(99%) | 26dB BW |
|-----------|----------|----------|
| 1712.4 | 4.151MHz | 4.710MHz |
| 1732.6 | 4.135MHz | 4.696MHz |
| 1752.6 | 4.167MHz | 4.744MHz |

BAND 5:

| Frequency | OBW(99%) | 26dB BW |
|-----------|----------|----------|
| 826.4 | 4.167MHz | 4.744MHz |
| 836.4 | 4.167MHz | 4.744MHz |
| 846.6 | 4.135MHz | 4.712MHz |

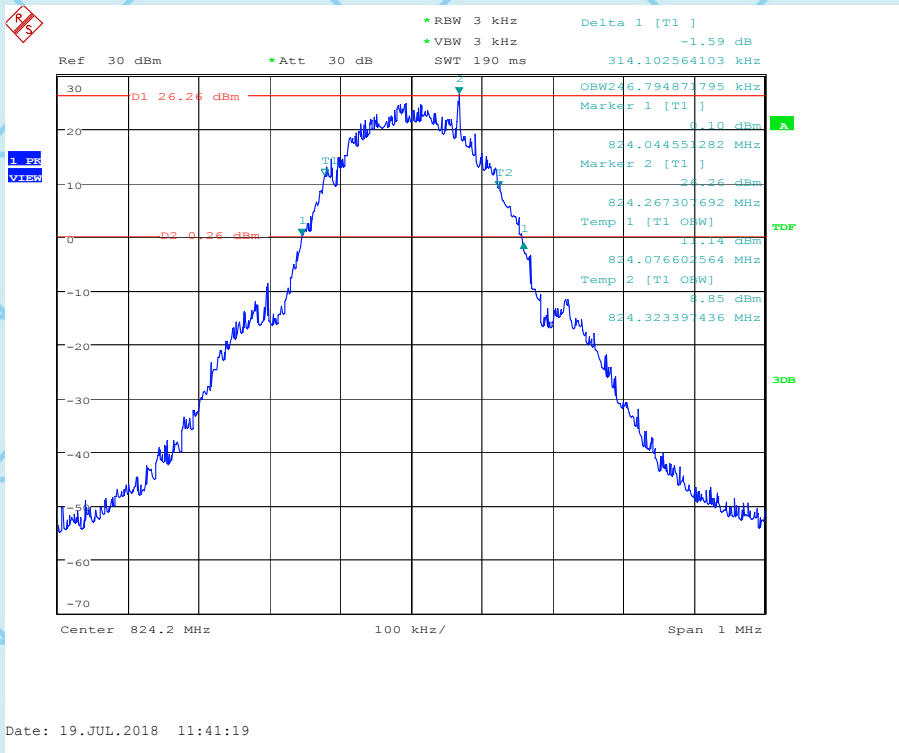




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Test Plot(s)

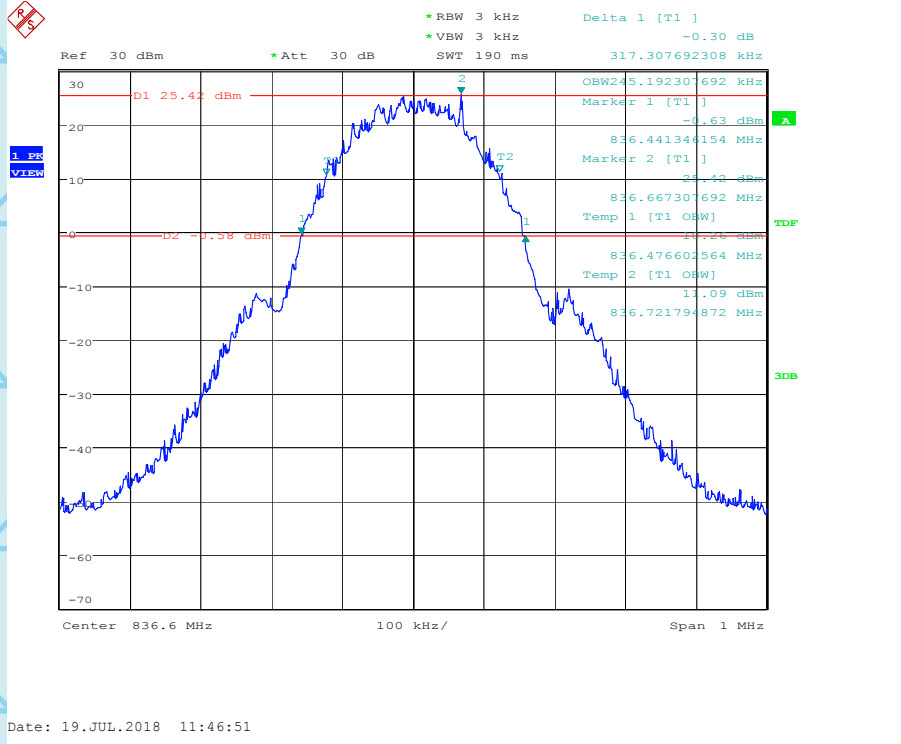
Occupied Bandwidth (99% and -26dBc) GSM 850 BAND CH 128



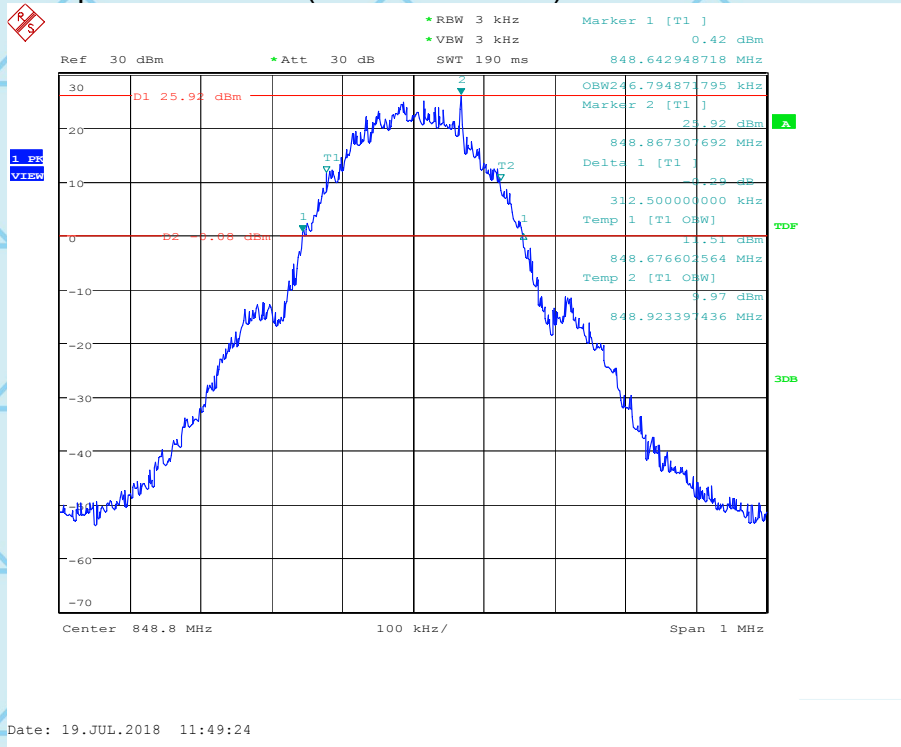


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Occupied Bandwidth (99% and -26dBc) GSM 850 BAND CH 190



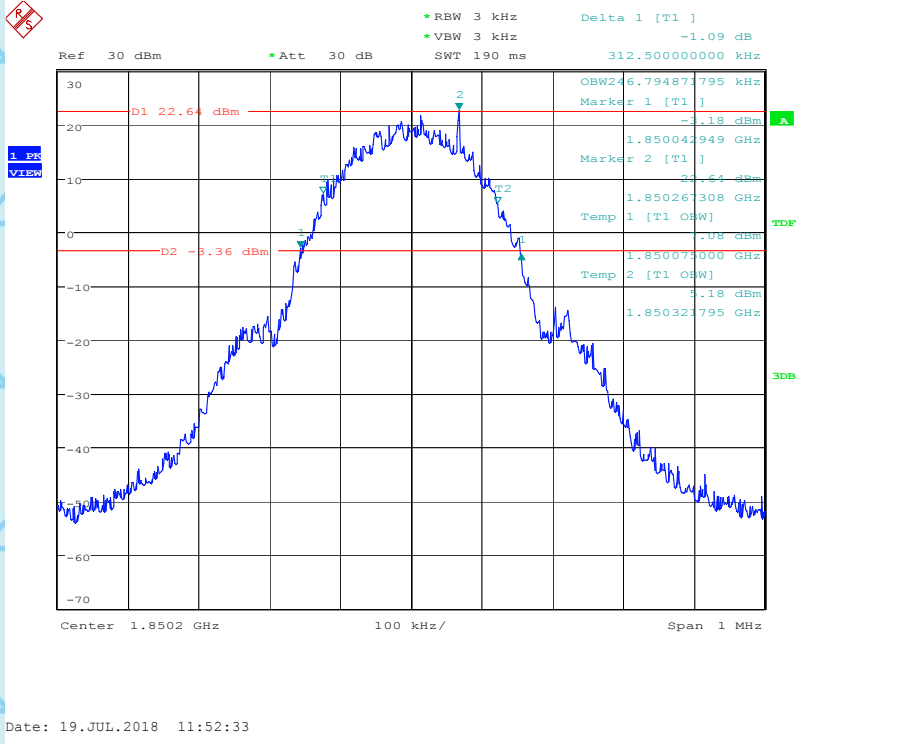
Occupied Bandwidth (99% and -26dBc) GSM 850 BAND CH 251



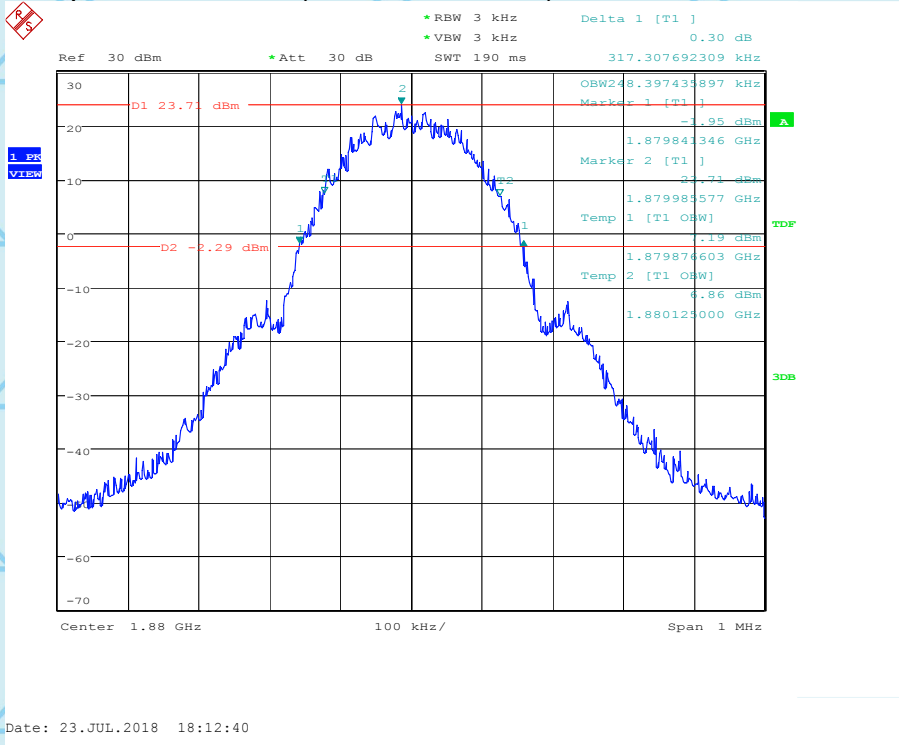


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Occupied Bandwidth (99% and -26dBc) GSM 1900 BAND CH 512



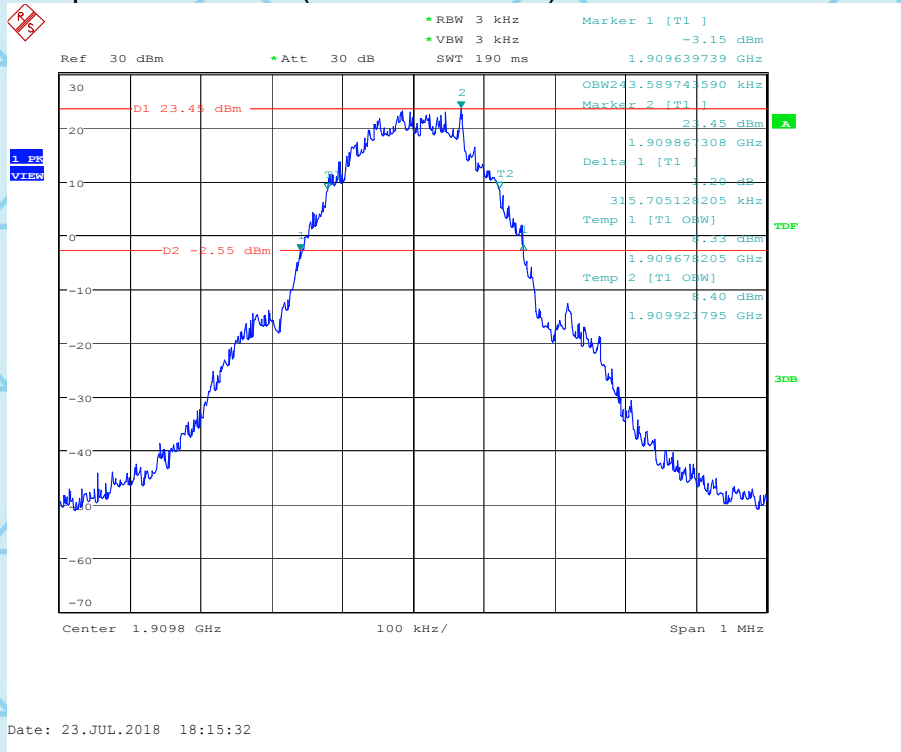
Occupied Bandwidth (99% and -26dBc) PCS 1900 BAND CH 661



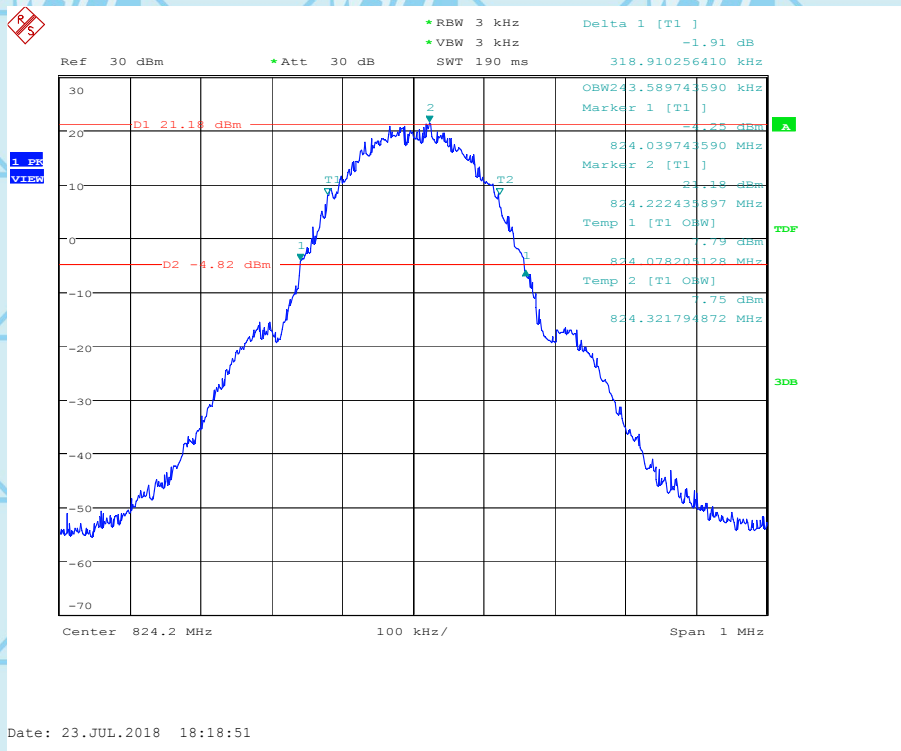


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Occupied Bandwidth (99% and -26dBc) PCS 1900 BAND CH 810



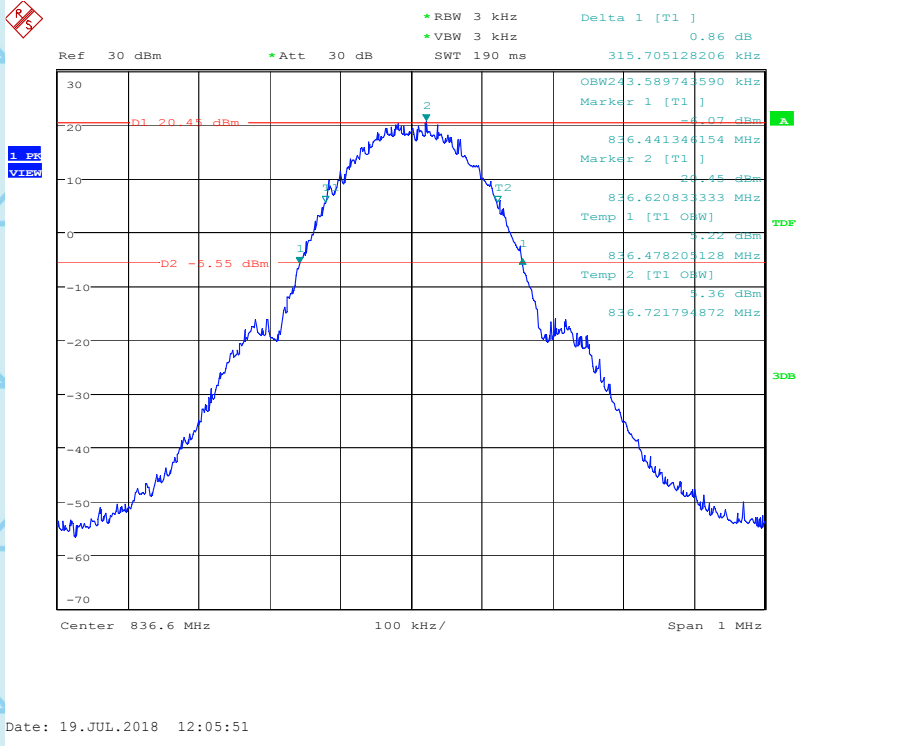
Occupied Bandwidth (99% and -26dBc) GPRS 850 BAND CH 128



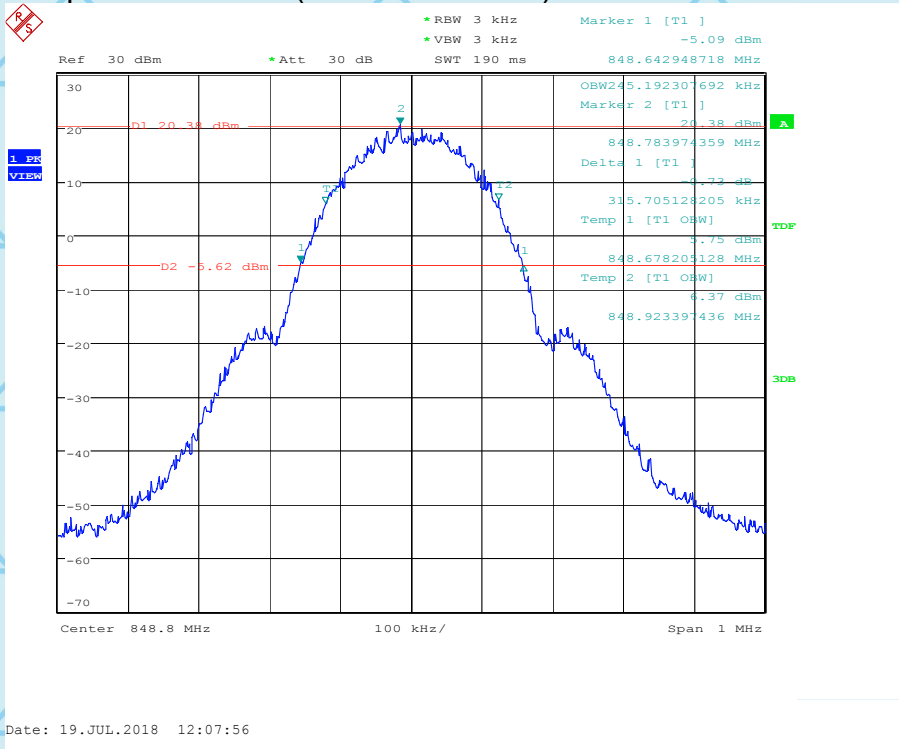


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Occupied Bandwidth (99% and -26dBc) GPRS 850 BAND CH 190



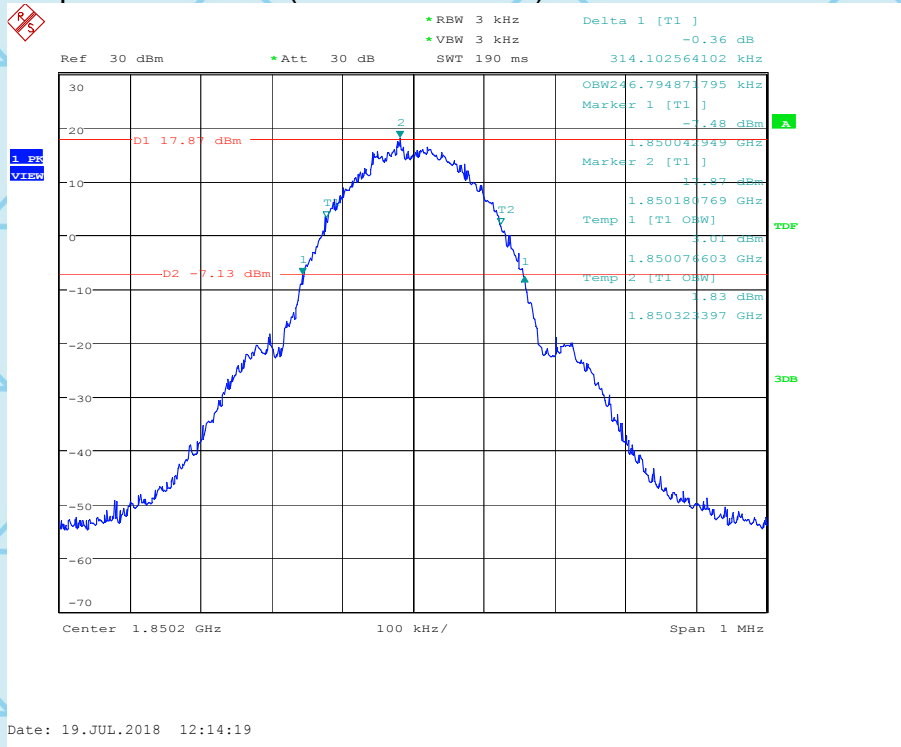
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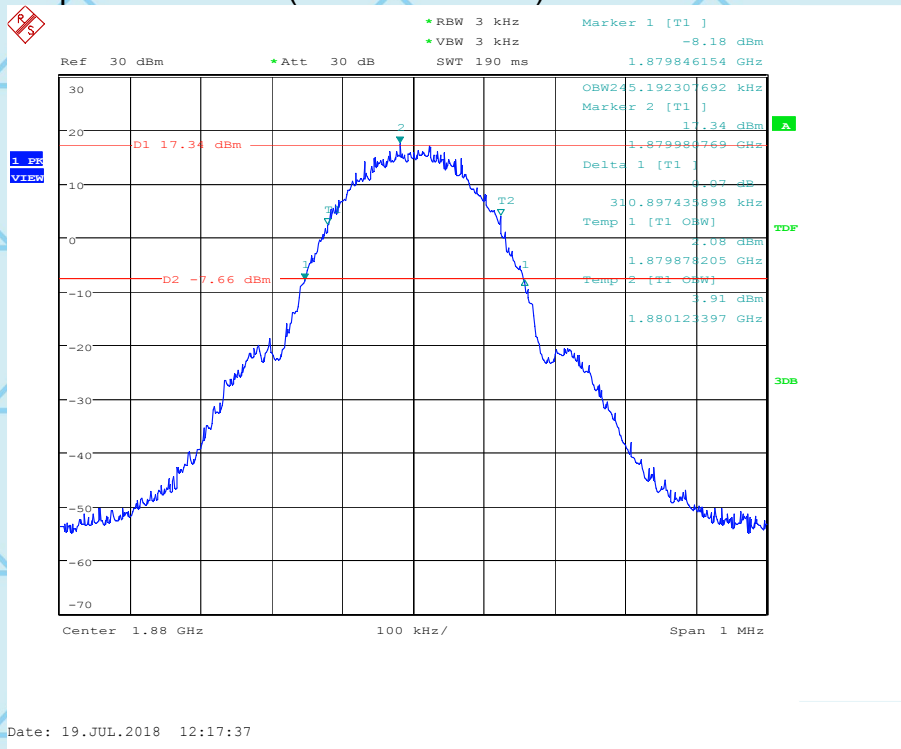


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Occupied Bandwidth (99% and -26dBc) GPRS 1900 BAND CH 512



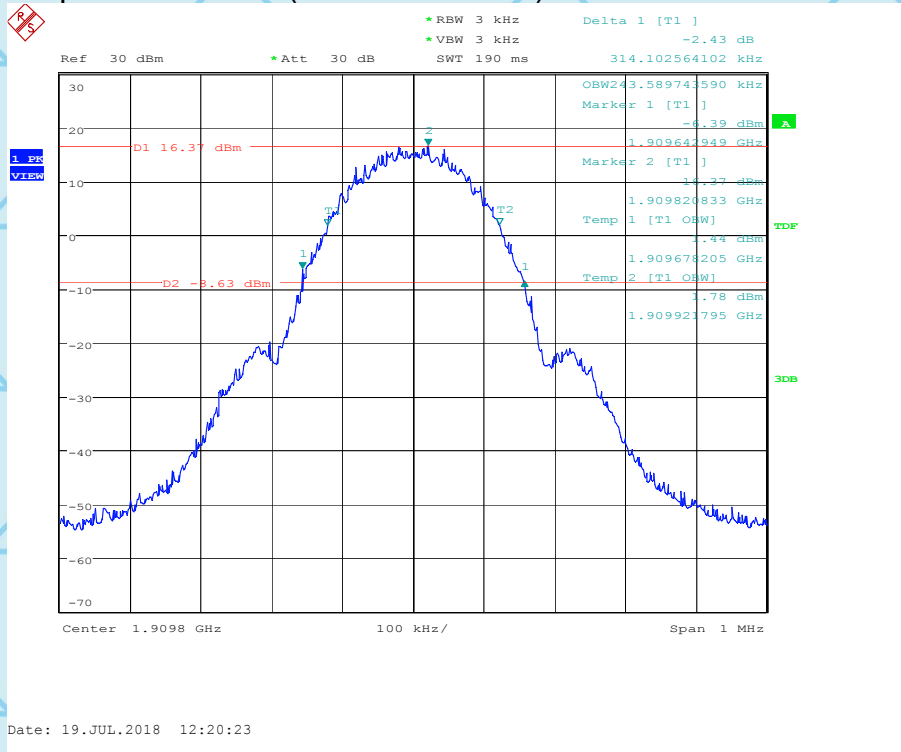
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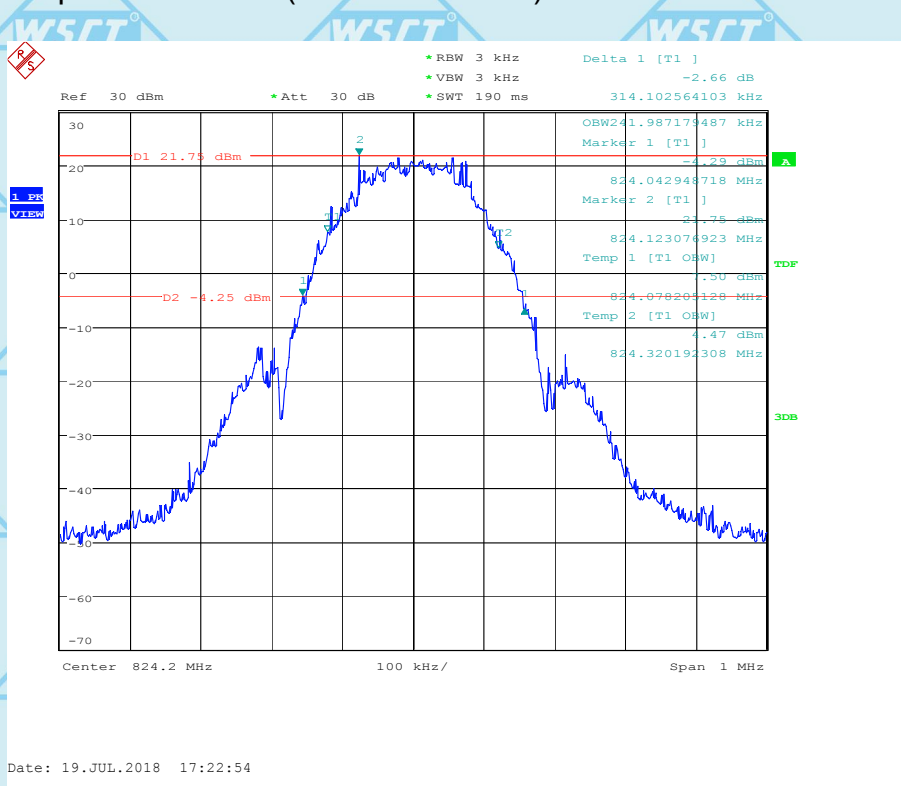


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Occupied Bandwidth (99% and -26dBc) GPRS 1900 BAND CH 810



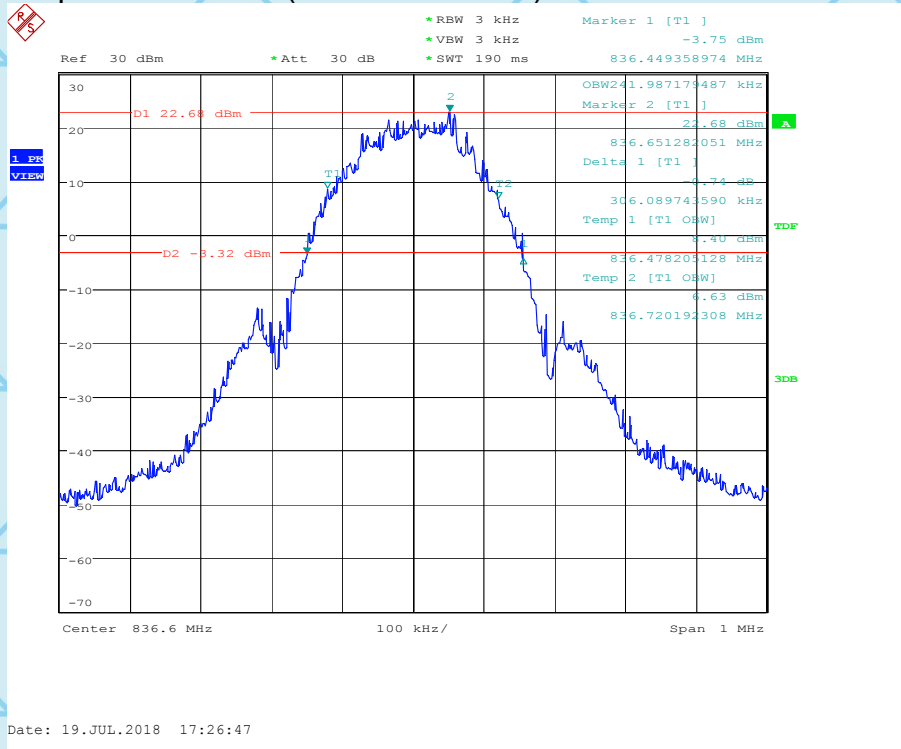
Occupied Bandwidth (99% and -26dBc) EGPRS 850 BAND CH 128



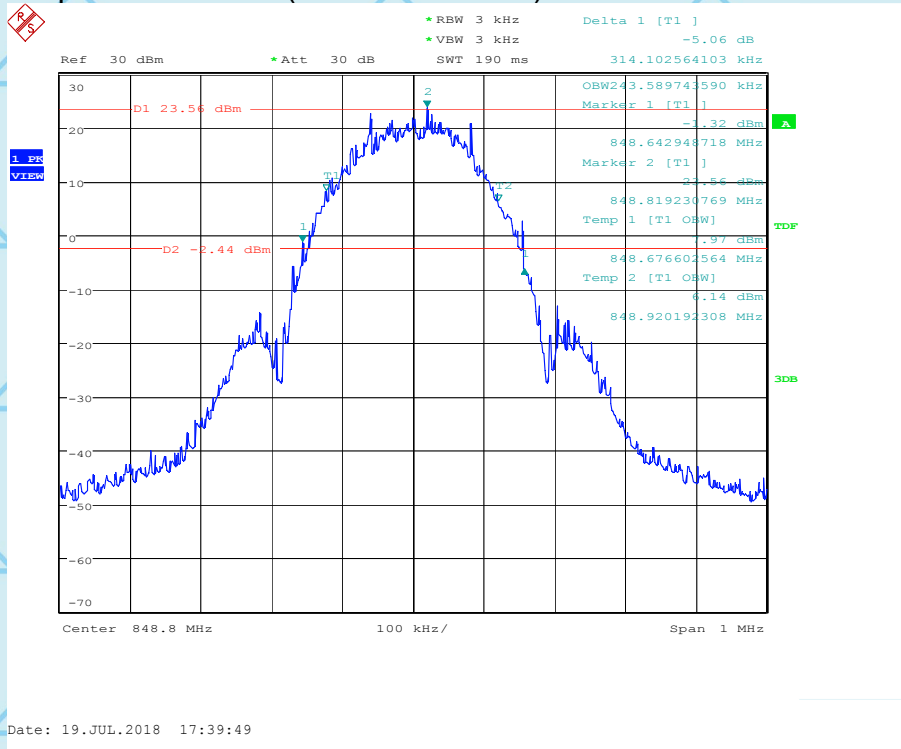


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Occupied Bandwidth (99% and -26dBc) EGPRS 850 BAND CH 190



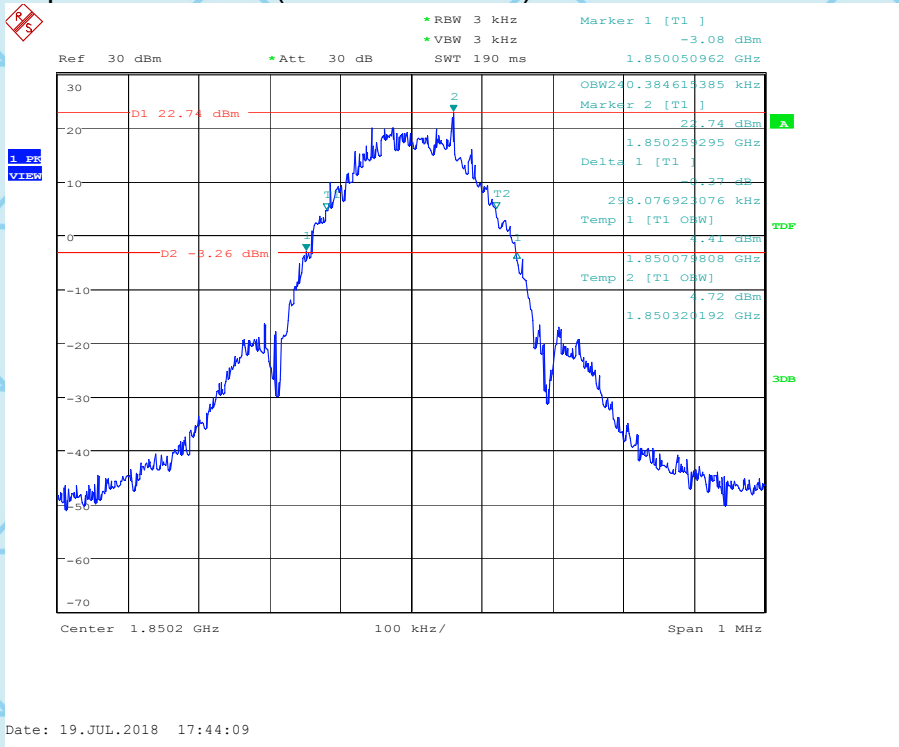
Occupied Bandwidth (99% and -26dBc) EGPRS 850 BAND CH 251



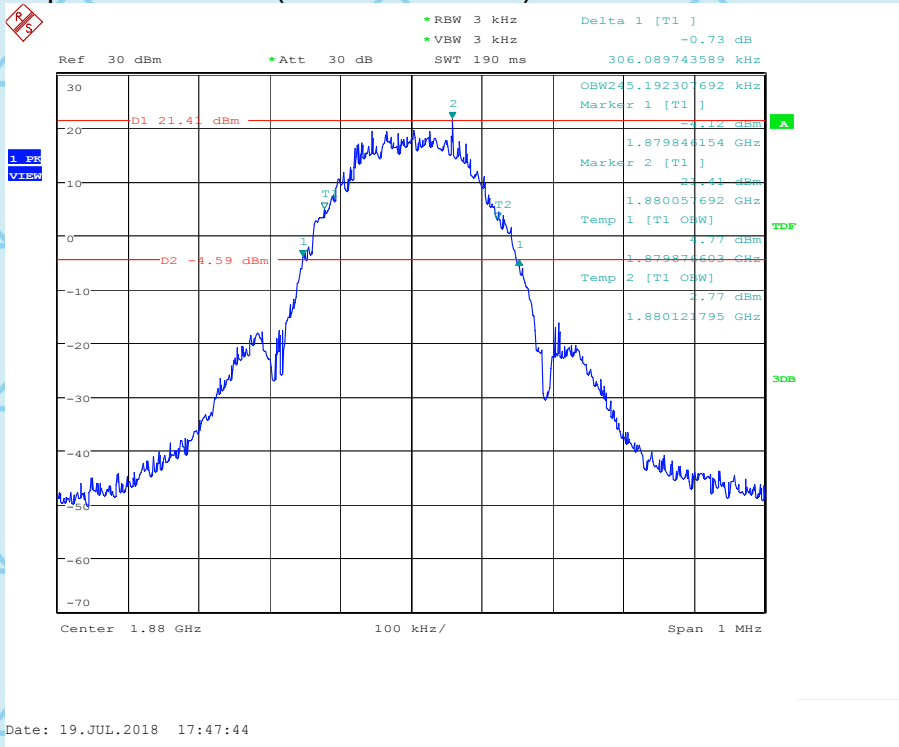


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Occupied Bandwidth (99% and -26dBc) EGPRS 1900 BAND CH 512



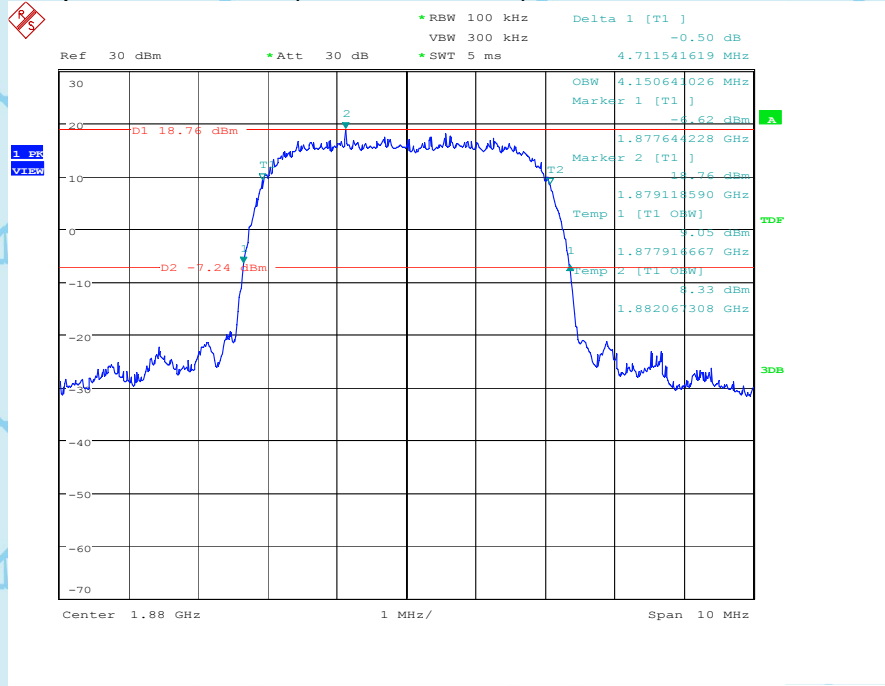
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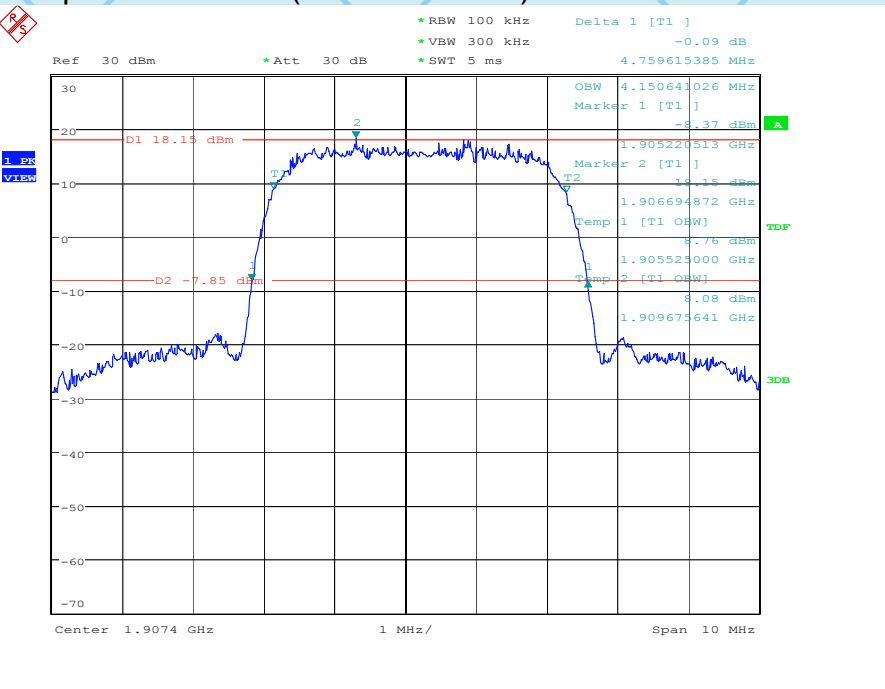
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Occupied Bandwidth (99%and-26dBc) WCDMA BAND II CH 9400



Date: 20.JUL.2018 10:12:30

Occupied Bandwidth (99%and-26dBc) WCDMA BAND II CH 9538



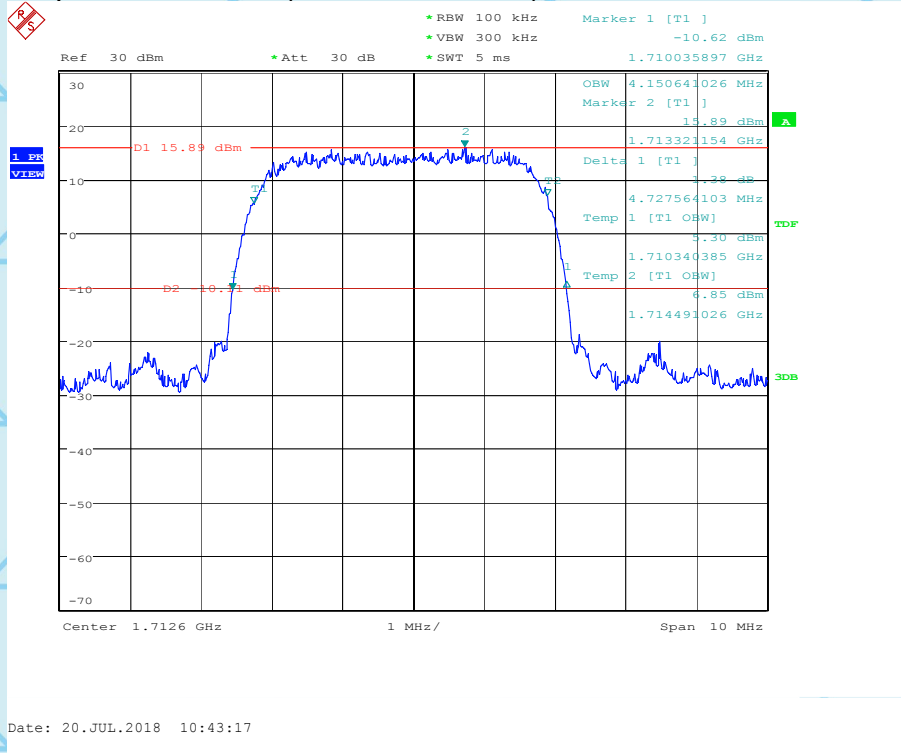
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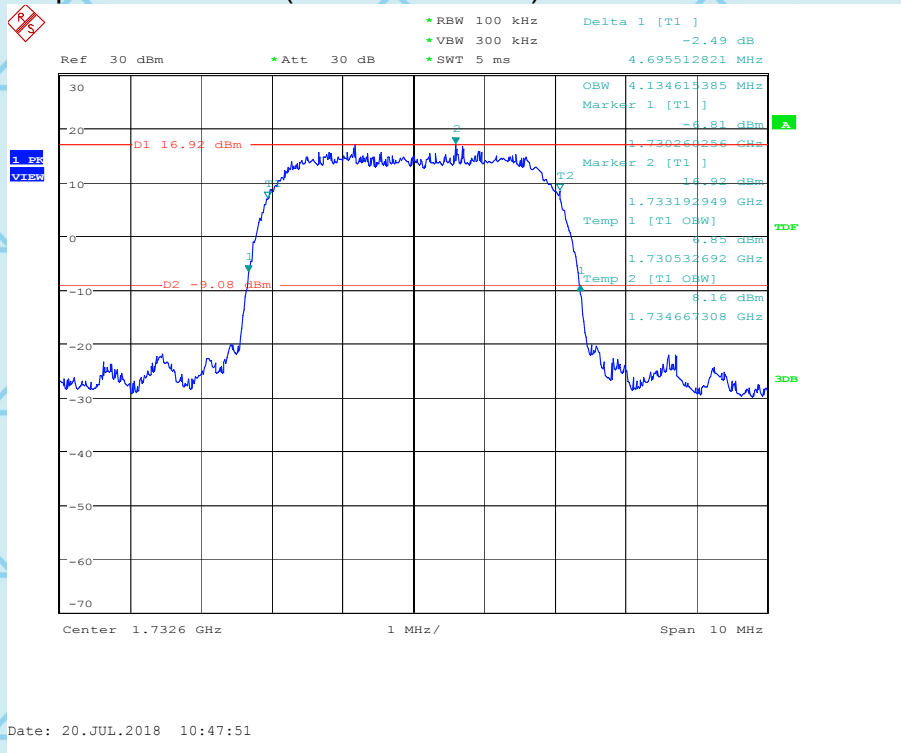


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Occupied Bandwidth (99% and -26dBc) WCDMA BAND IV CH 1312



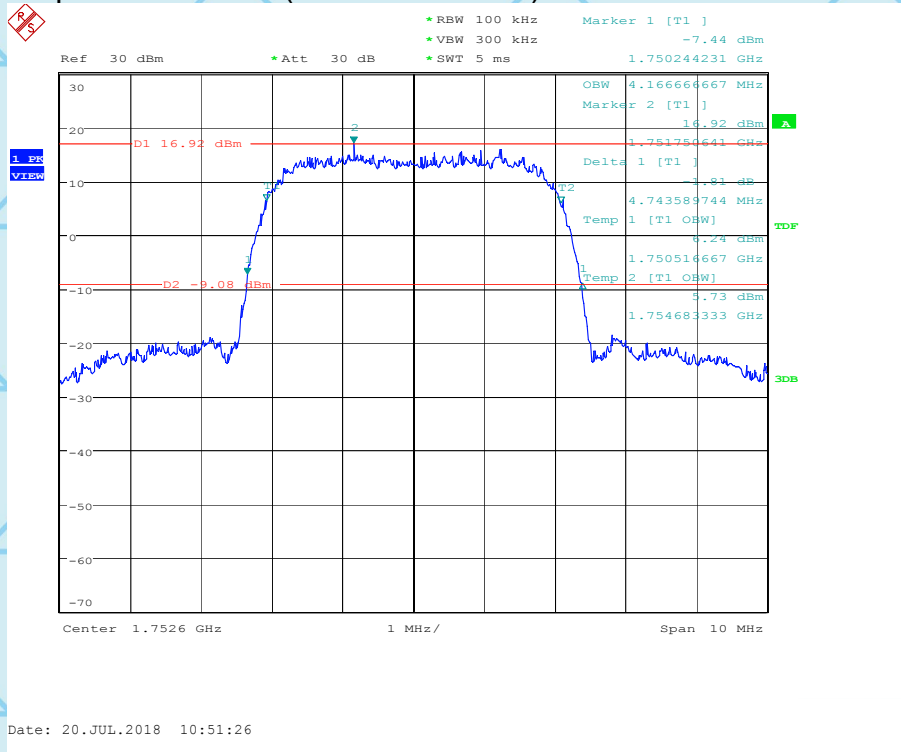
Occupied Bandwidth (99% and -26dBc) WCDMA BAND IV CH 1413



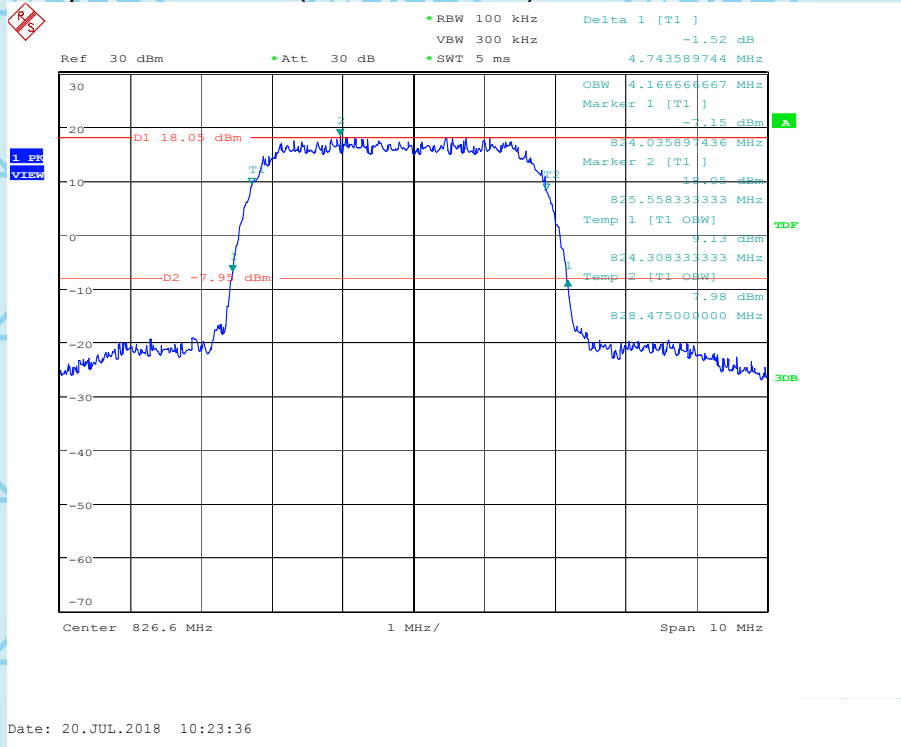


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Occupied Bandwidth (99% and -26dBc) WCDMA BAND IV CH 1513



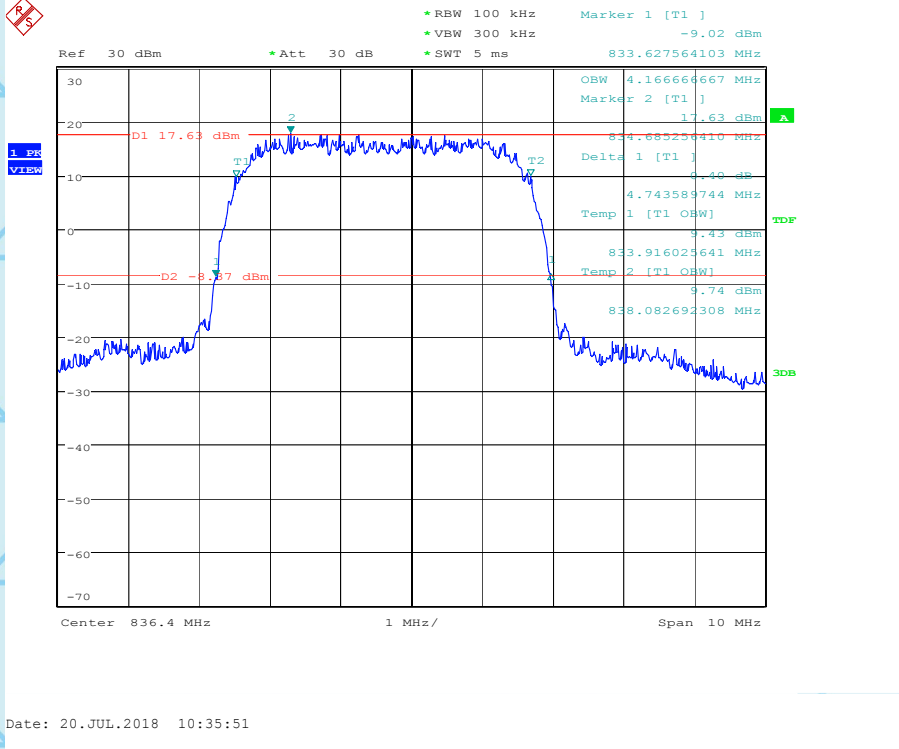
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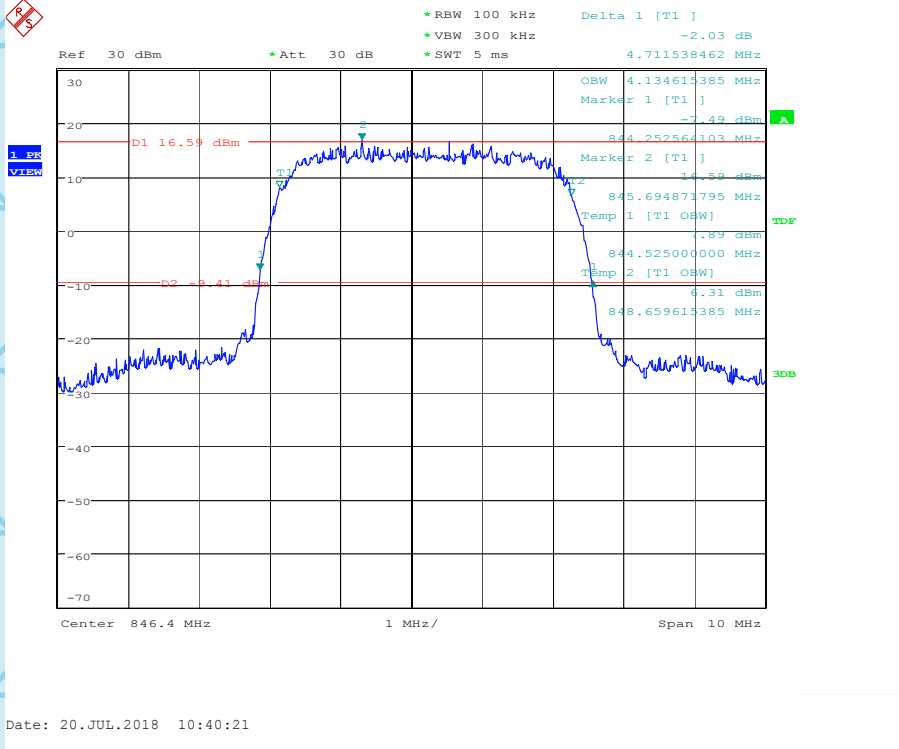


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Occupied Bandwidth (99%and-26dBc) WCDMA BAND V CH 4182



Occupied Bandwidth (99%and-26dBc) WCDMA BAND V CH 4233



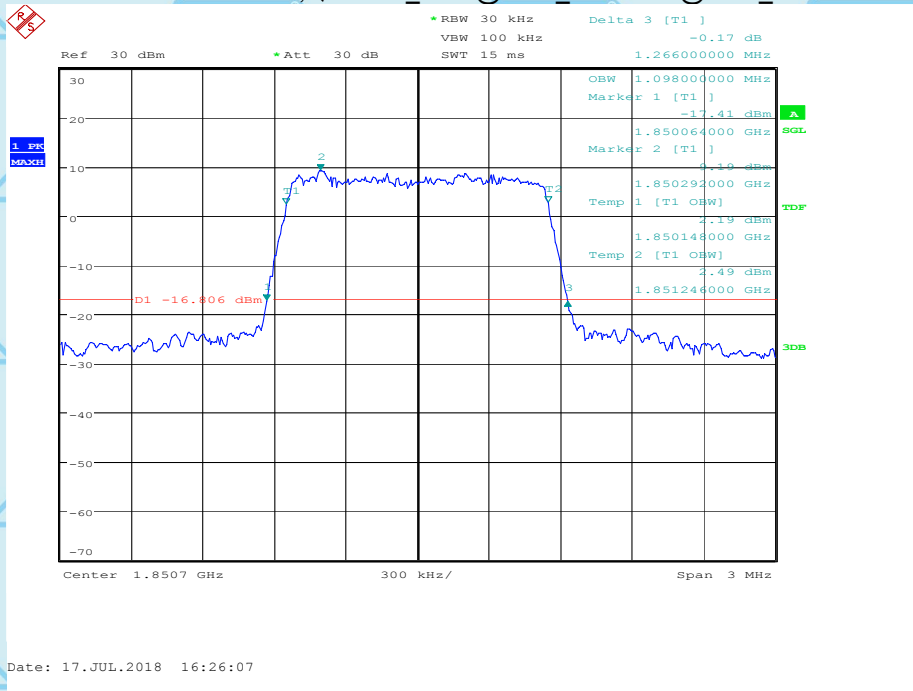


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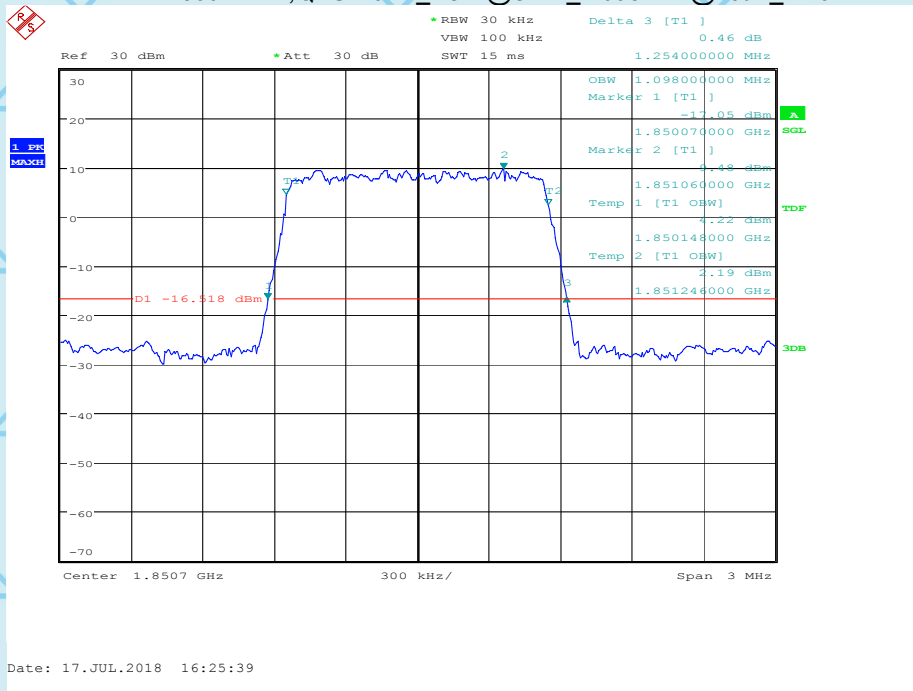
E-UTRA BANDS

BAND 2@Bandwidth

BW1.4MHz-1850.7MHz,Q16-6RB_LOW@OBW_1.098MHz@26dB_1.266MHz



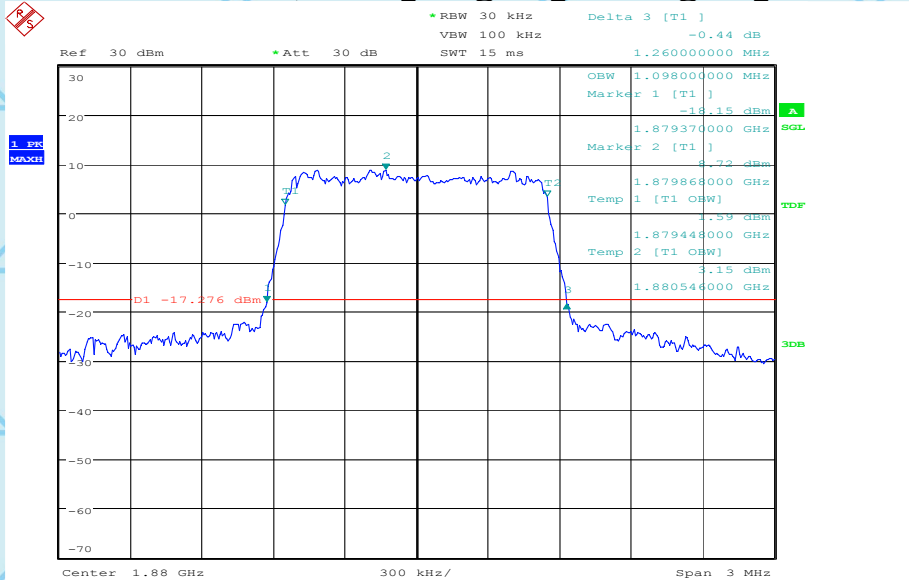
BW1.4MHz-1850.7MHz,QPSK-6RB_LOW@OBW_1.098MHz@26dB_1.254MHz





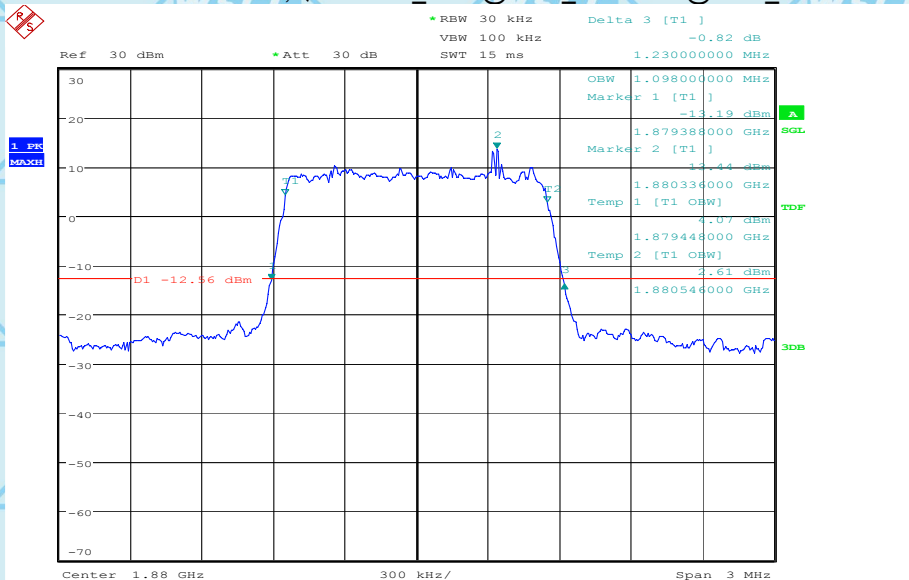
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BW1.4MHz-1880MHz,Q16-6RB_LOW@OBW_1.098MHz@26dB_1.26MHz



Date: 17.JUL.2018 16:28:23

BW1.4MHz-1880MHz,QPSK-6RB_LOW@OBW_1.098MHz@26dB_1.23MHz



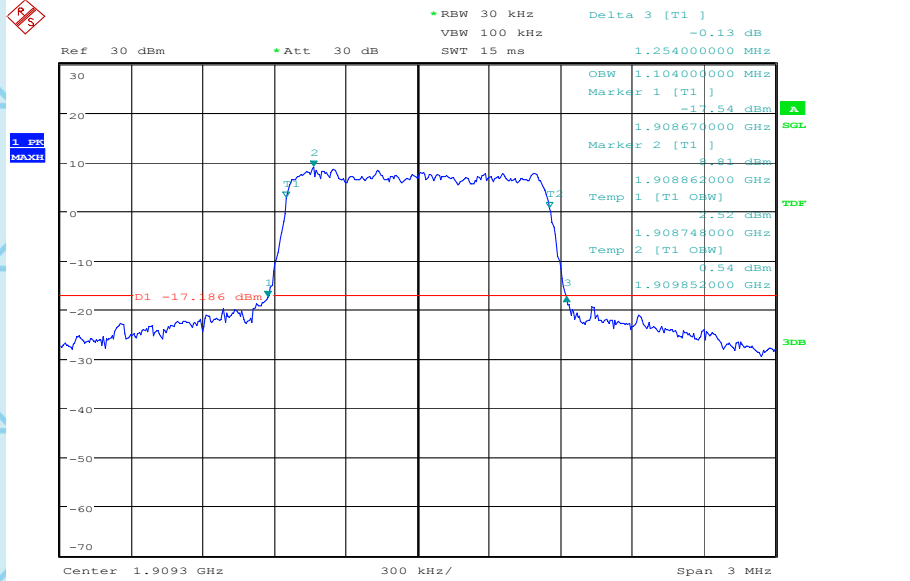
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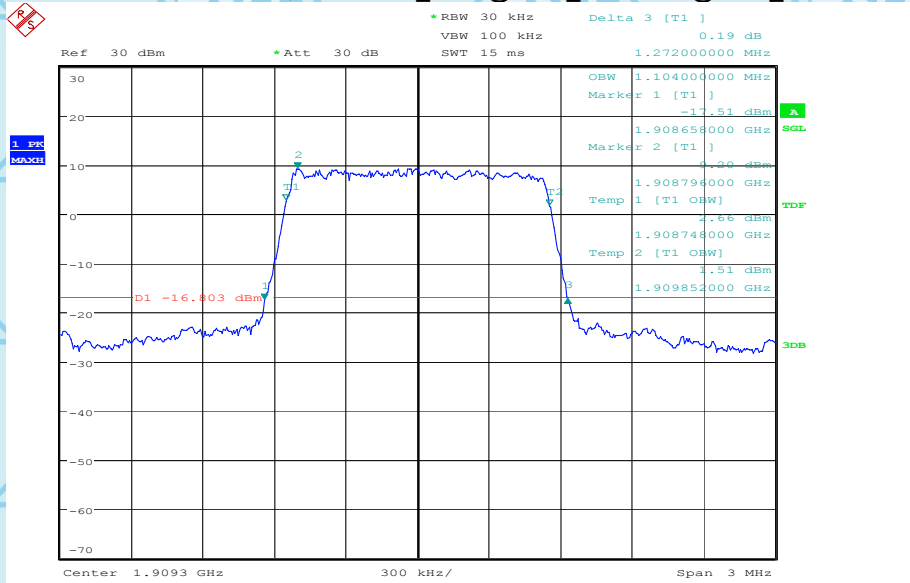
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BW1.4MHz-1909.3MHz,Q16-6RB_LOW@OBW_1.104MHz@26dB_1.254MHz



Date: 17.JUL.2018 16:27:24

BW1.4MHz-1909.3MHz,QPSK-6RB_LOW@OBW_1.104MHz@26dB_1.272MHz



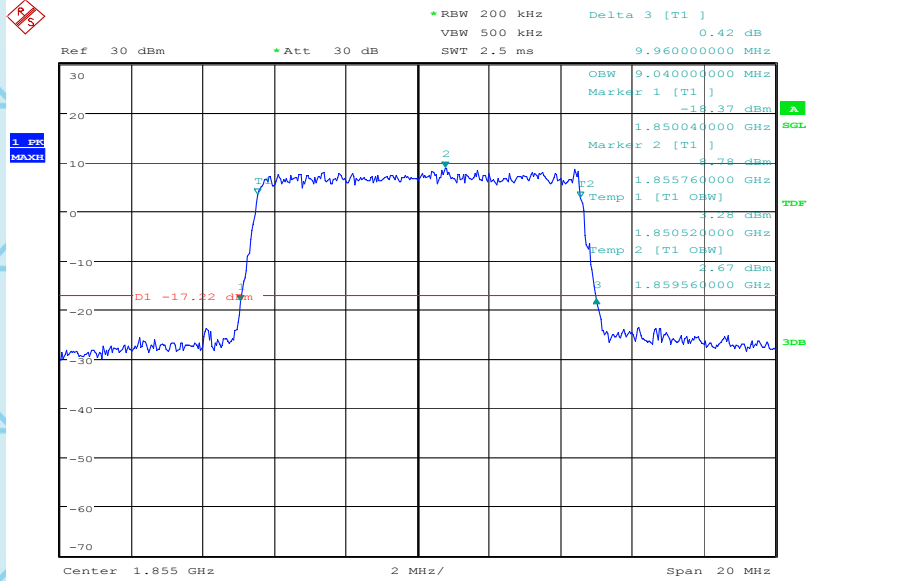
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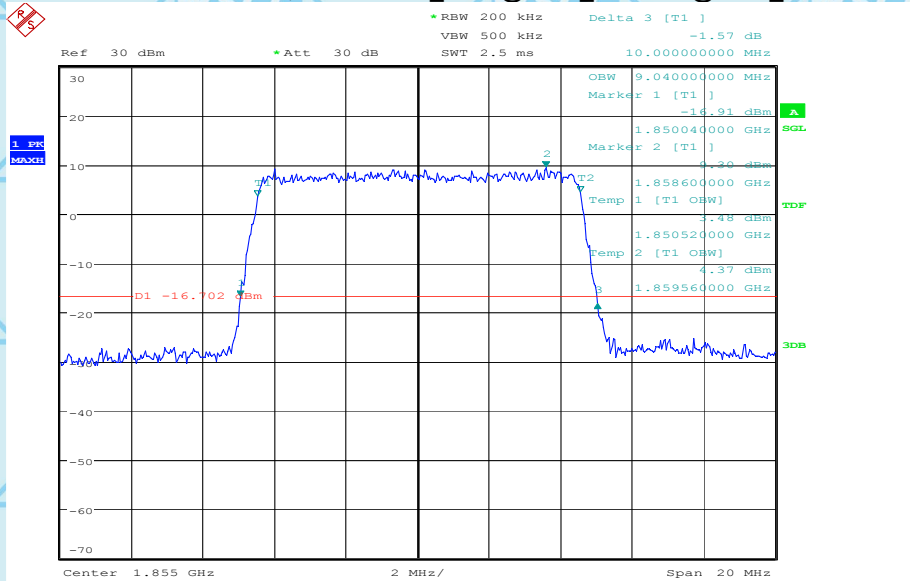
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BW10MHz-1855MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.96MHz



Date: 17.JUL.2018 16:34:35

BW10MHz-1855MHz,QPSK-50RB_LOW@OBW_9.04MHz@26dB_10.MHz



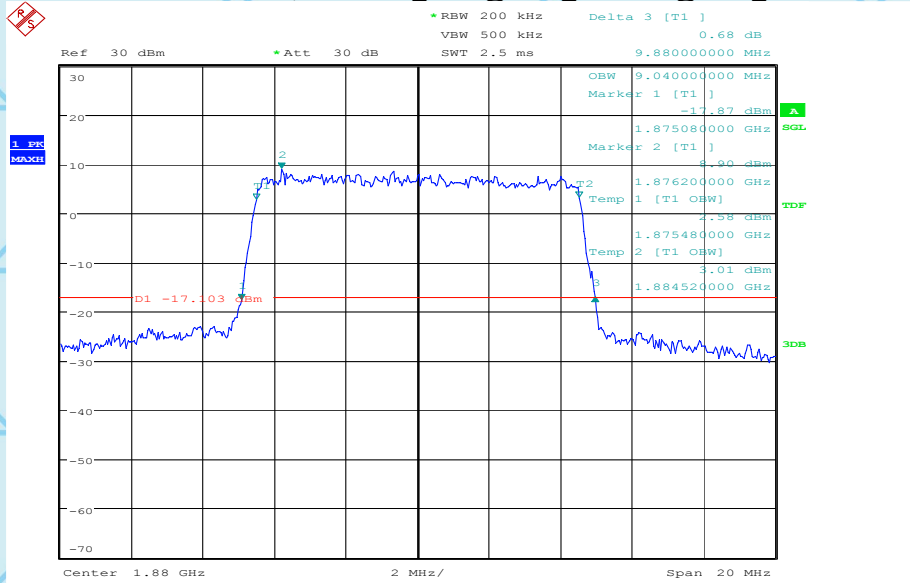
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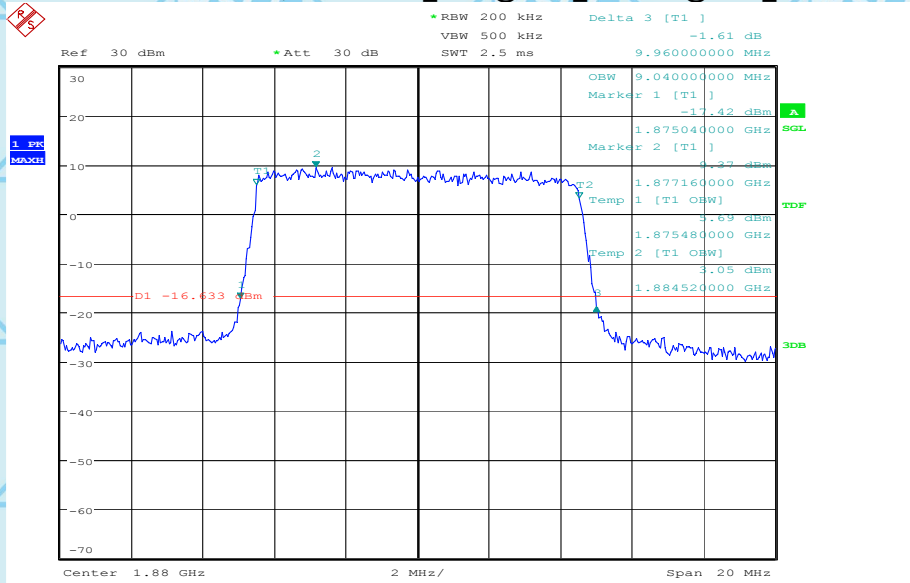
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BW10MHz-1880MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.88MHz



Date: 17.JUL.2018 16:36:00

BW10MHz-1880MHz,QPSK-50RB_LOW@OBW_9.04MHz@26dB_9.96MHz



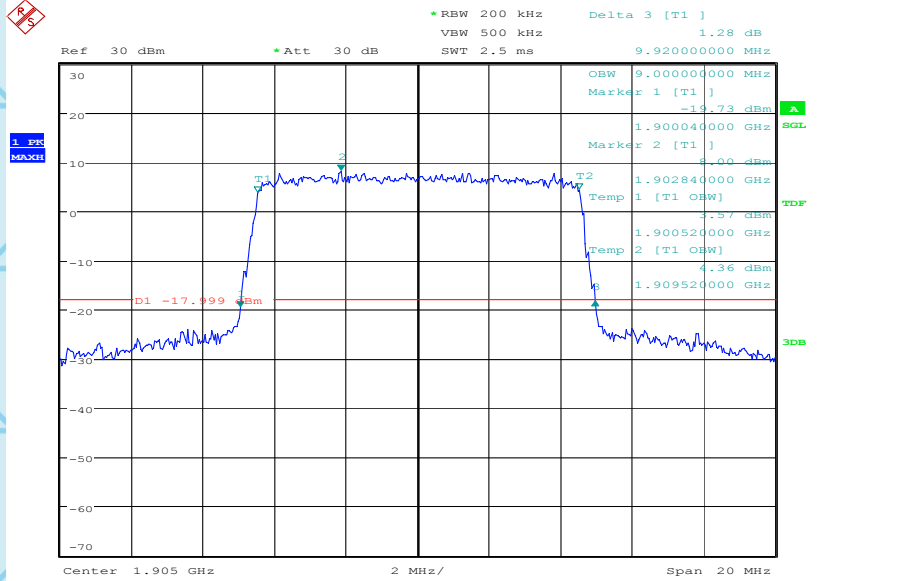
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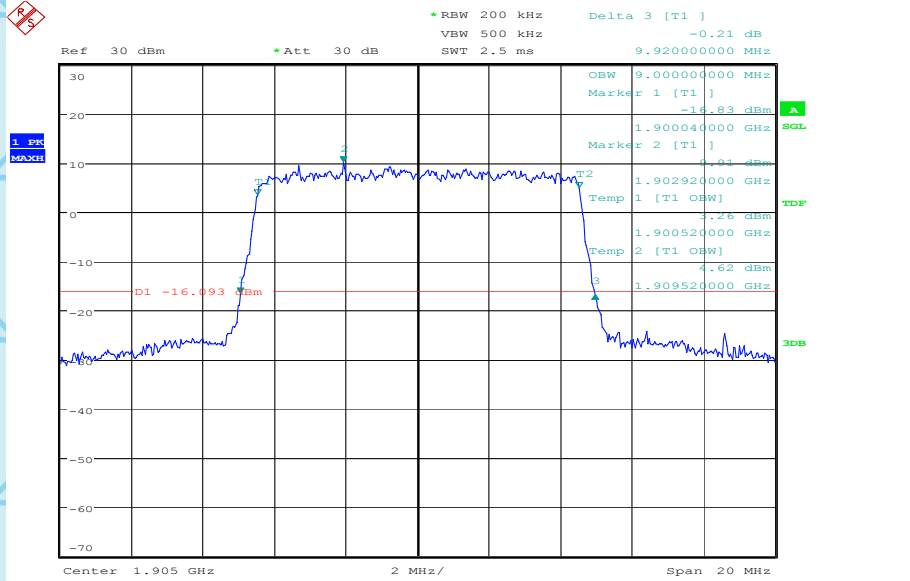
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BW10MHz-1905MHz,Q16-50RB_LOW@OBW_9.MHz@26dB_9.92MHz



Date: 17.JUL.2018 16:35:18

BW10MHz-1905MHz,QPSK-50RB_LOW@OBW_9.MHz@26dB_9.92MHz



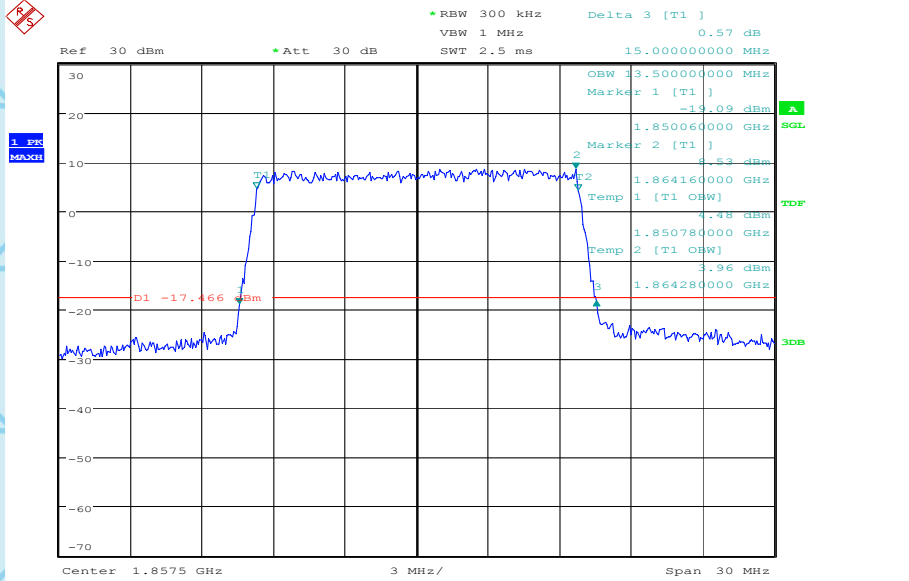
Date: 17.JUL.2018 16:34:57





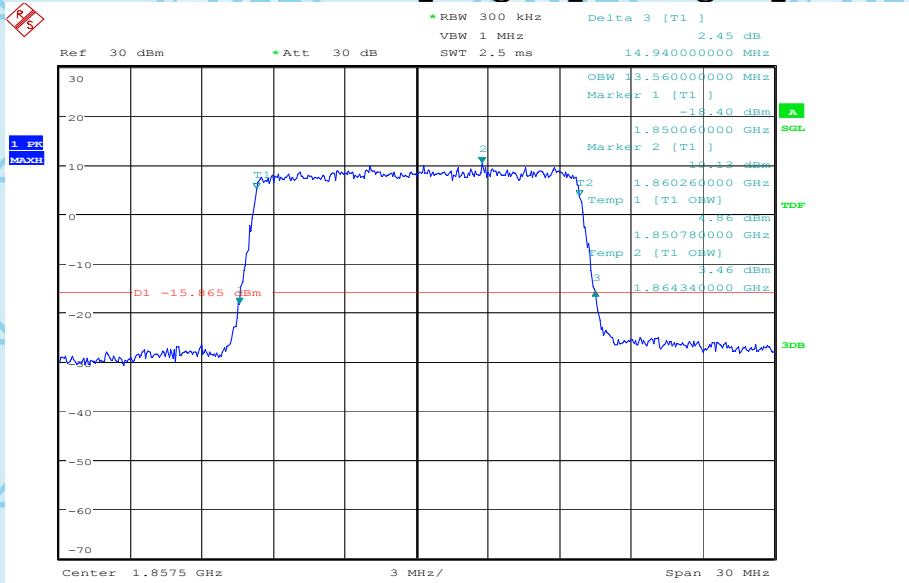
For Question, Please Contact with WSCT www.wsct-cert.com

BW15MHz-1857.5MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_15.MHz



Date: 17.JUL.2018 16:36:49

BW15MHz-1857.5MHz,QPSK-75RB_LOW@OBW_13.56MHz@26dB_14.94MHz



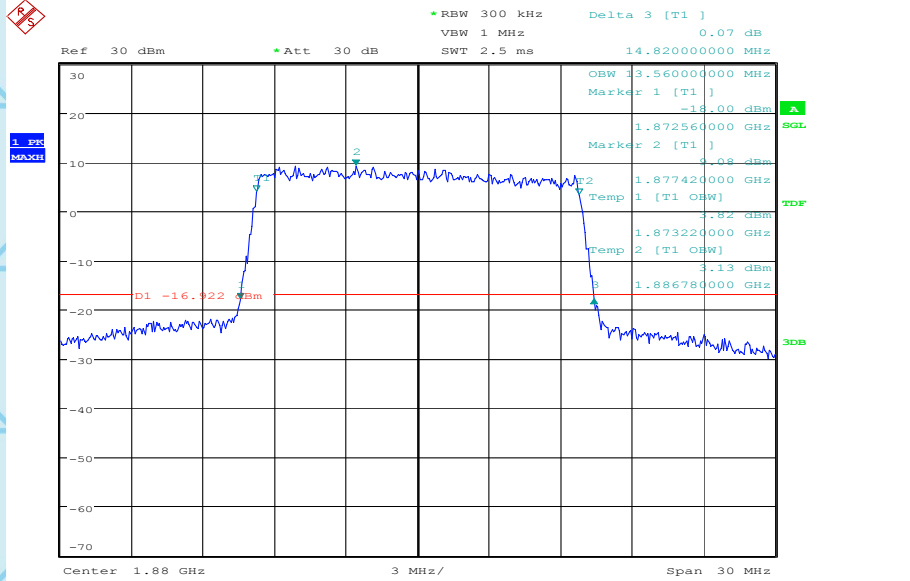
Date: 17.JUL.2018 16:36:26





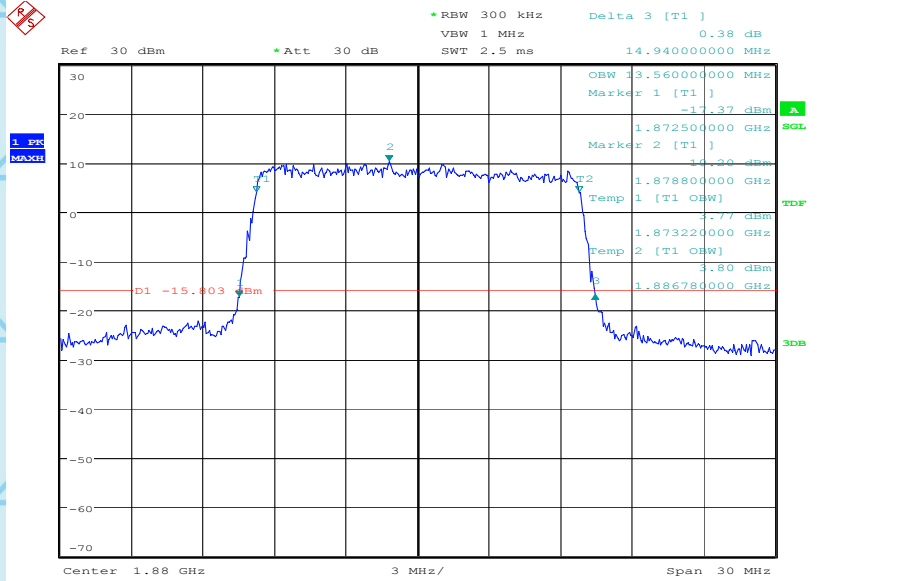
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BW15MHz-1880MHz,Q16-75RB_LOW@OBW_13.56MHz@26dB_14.82MHz



Date: 17.JUL.2018 16:38:23

BW15MHz-1880MHz,QPSK-75RB_LOW@OBW_13.56MHz@26dB_14.94MHz



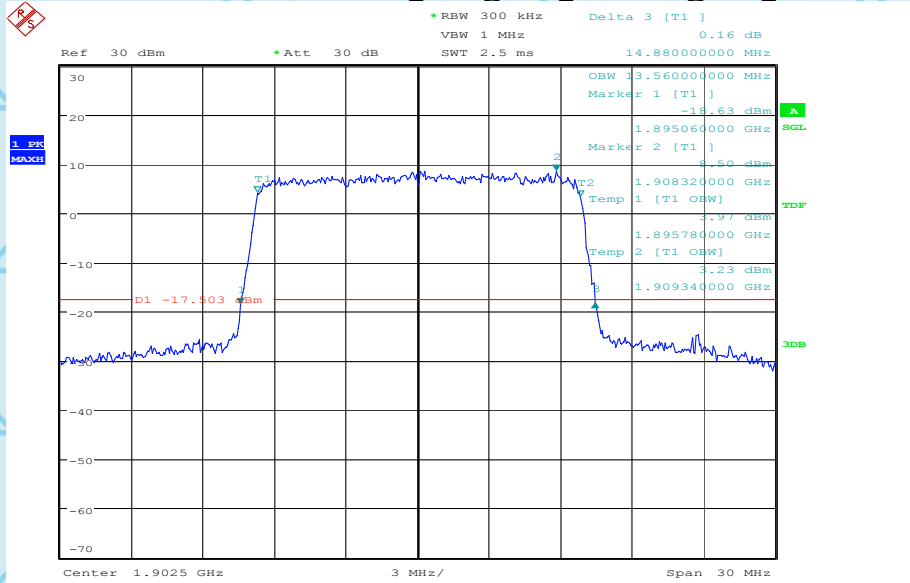
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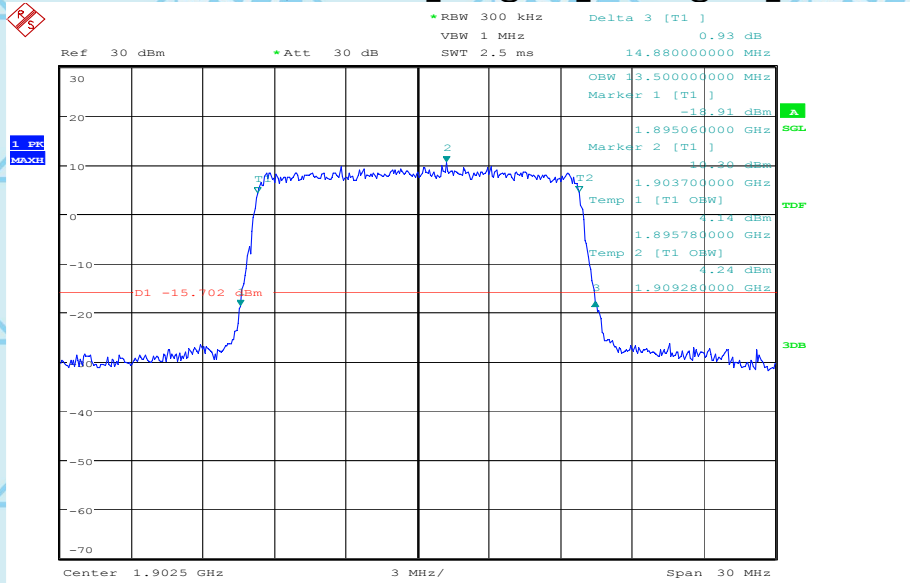
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BW15MHz-1902.5MHz,Q16-75RB_LOW@OBW_13.56MHz@26dB_14.88MHz



Date: 17.JUL.2018 16:37:36

BW15MHz-1902.5MHz,QPSK-75RB_LOW@OBW_13.5MHz@26dB_14.88MHz



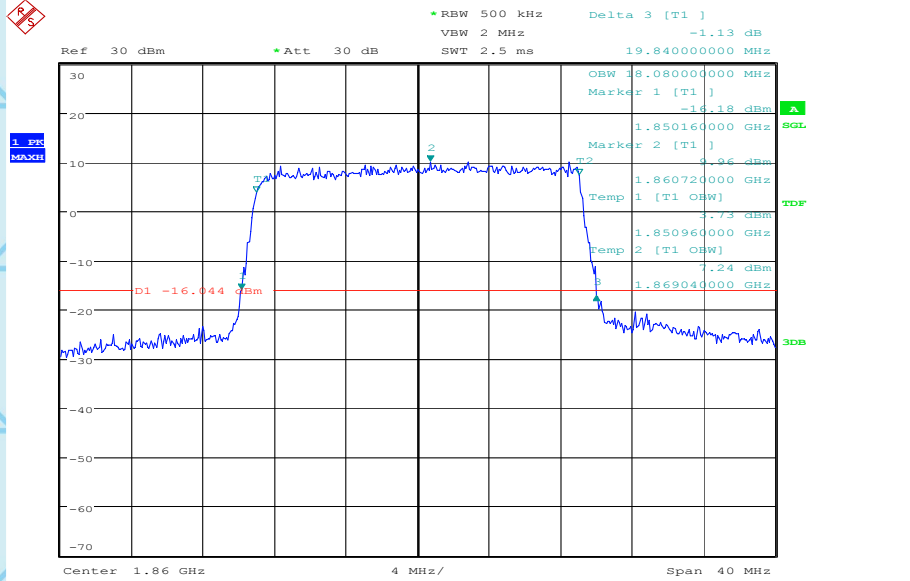
Date: 17.JUL.2018 16:37:13





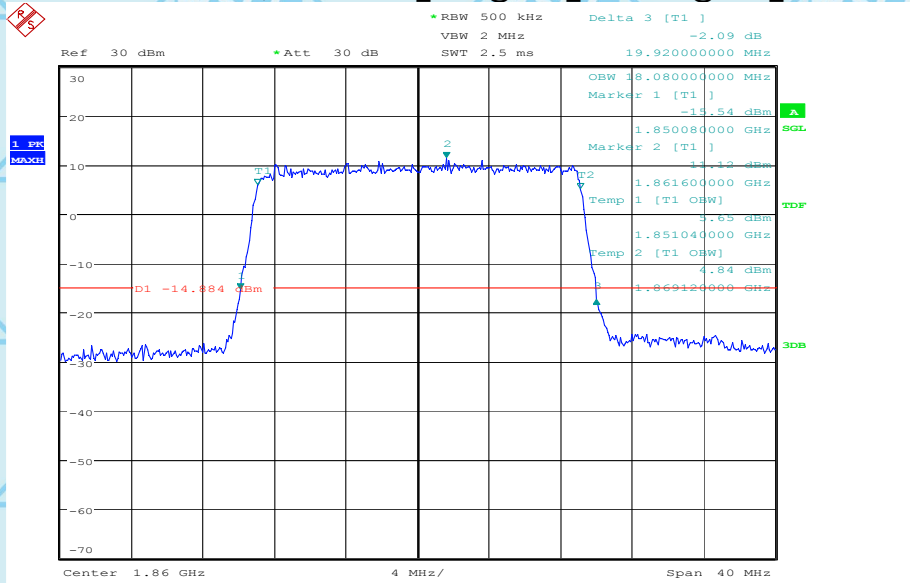
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BW20MHz-1860MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.84MHz



Date: 17.JUL.2018 16:39:13

BW20MHz-1860MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



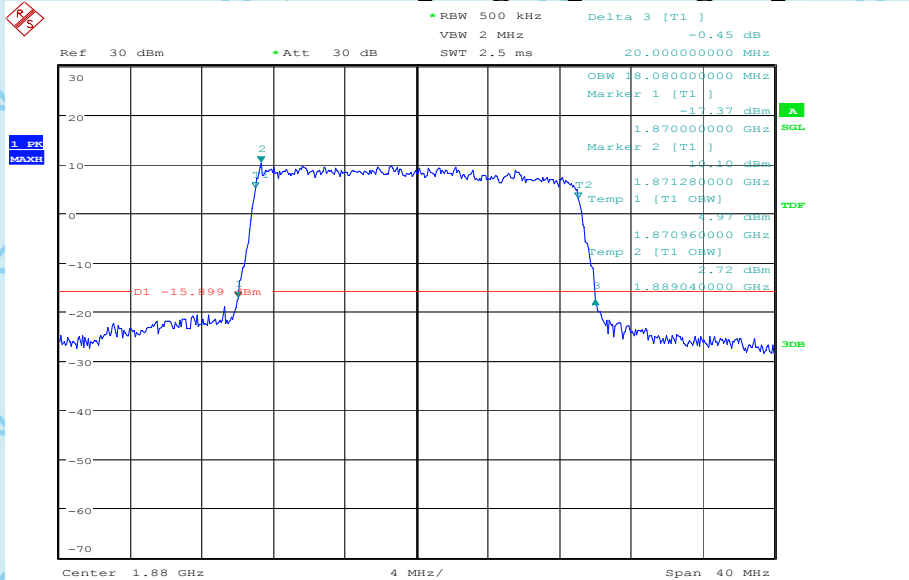
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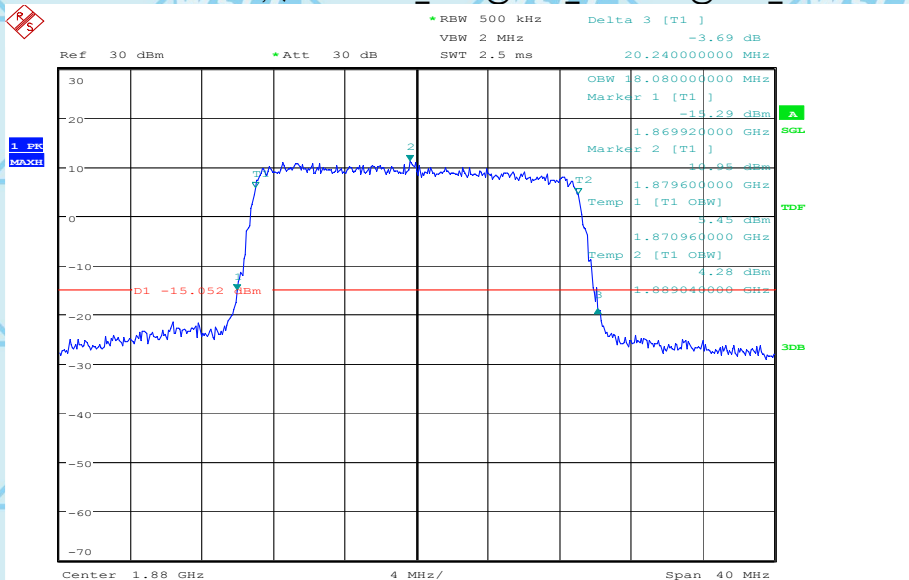
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BW20MHz-1880MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_20.MHz



Date: 17.JUL.2018 16:40:48

BW20MHz-1880MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_20.24MHz



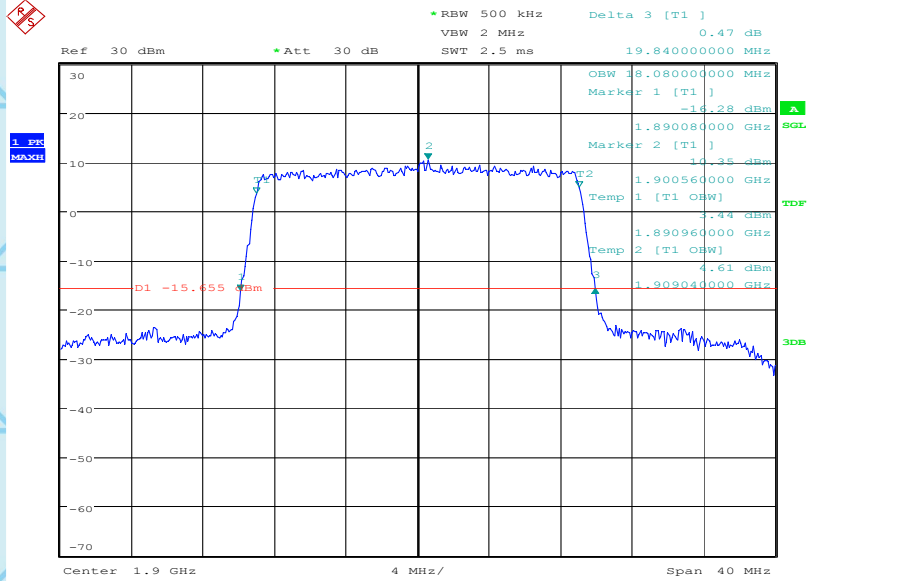
Date: 17.JUL.2018 16:40:25





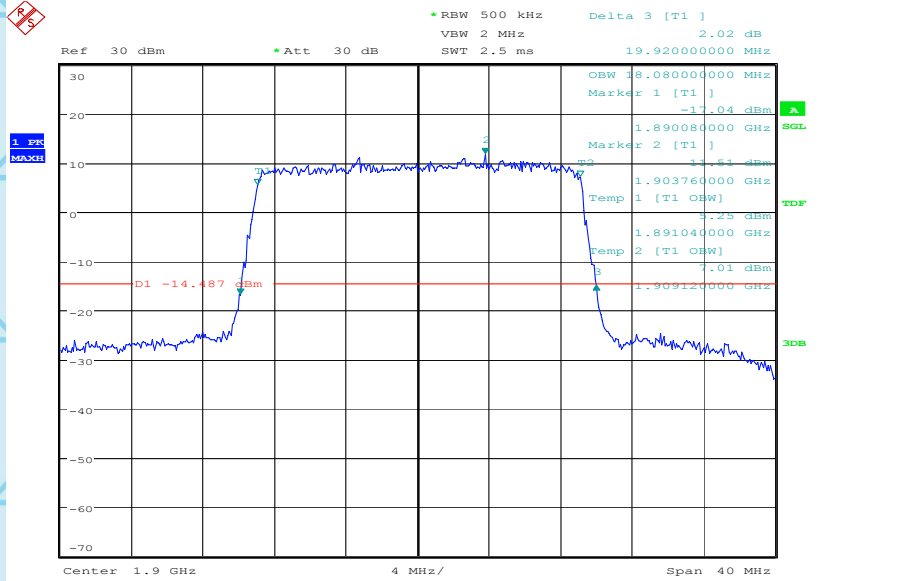
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BW20MHz-1900MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.84MHz



Date: 17.JUL.2018 16:40:01

BW20MHz-1900MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



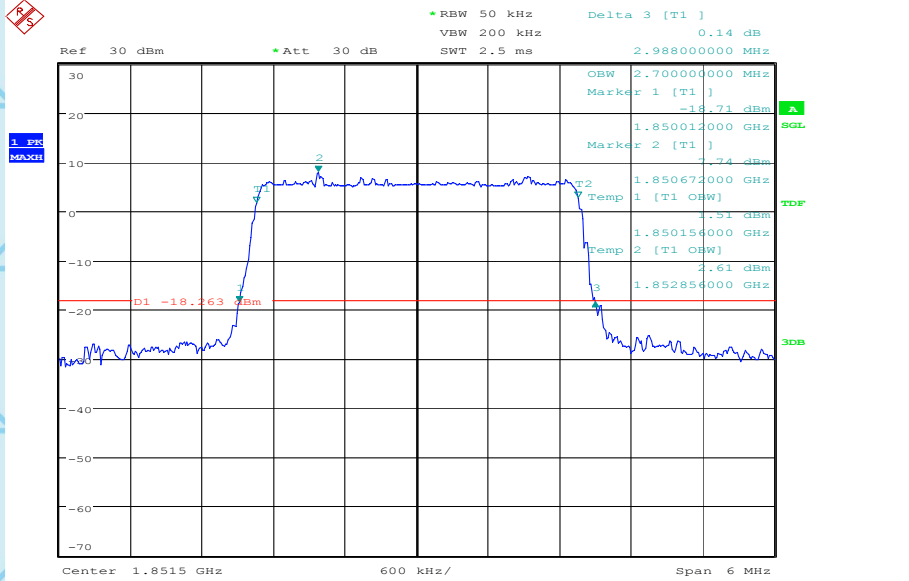
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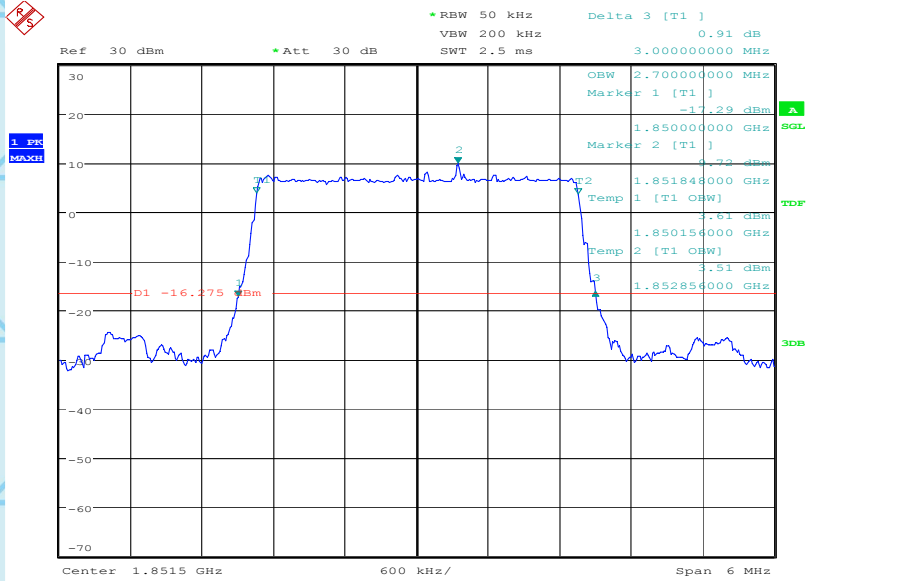
For Question, Please Contact with WSCT www.wsct-cert.com

BW3MHz-1851.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_2.988MHz



Date: 17.JUL.2018 16:29:10

BW3MHz-1851.5MHz,QPSK-15RB_LOW@OBW_2.7MHz@26dB_3.MHz



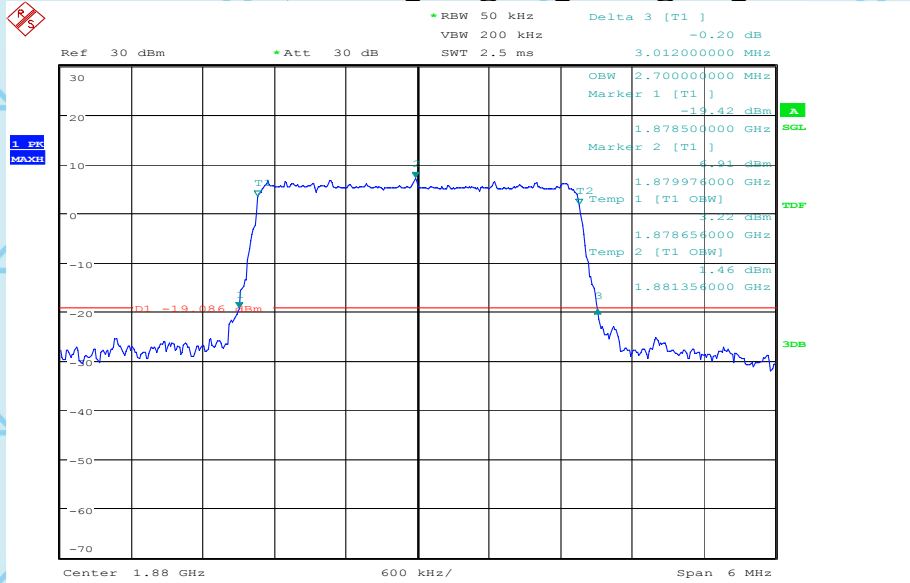
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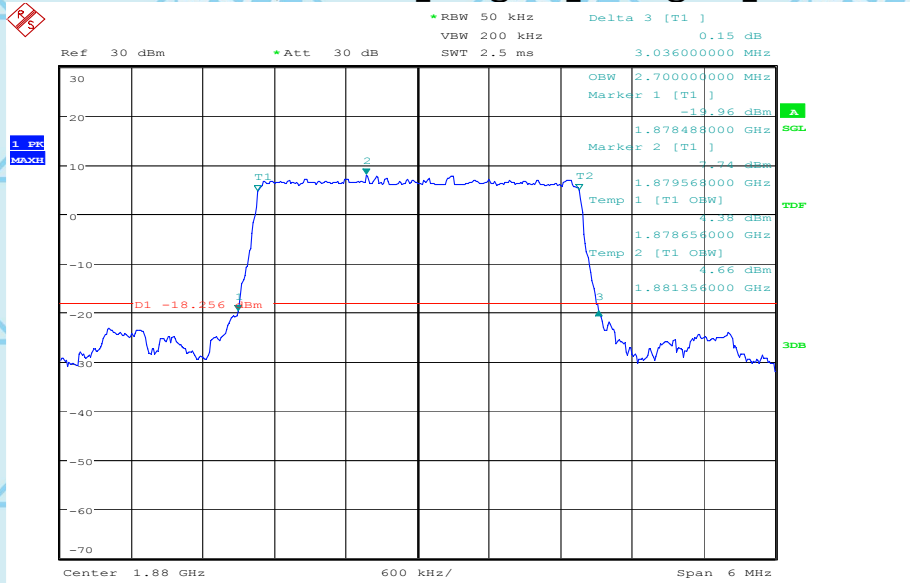
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BW3MHz-1880MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_3.012MHz



Date: 17.JUL.2018 16:30:57

BW3MHz-1880MHz,QPSK-15RB_LOW@OBW_2.7MHz@26dB_3.036MHz



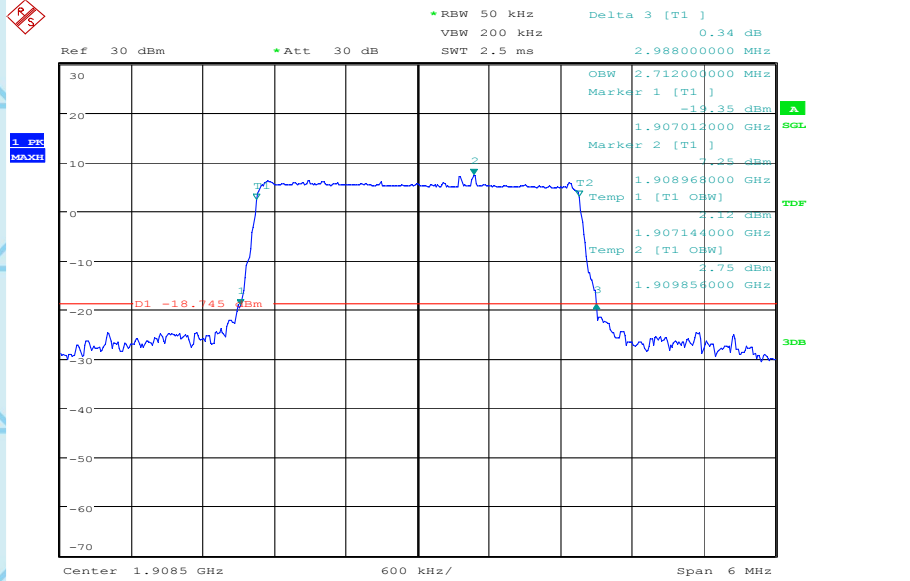
Date: 17.JUL.2018 16:30:37





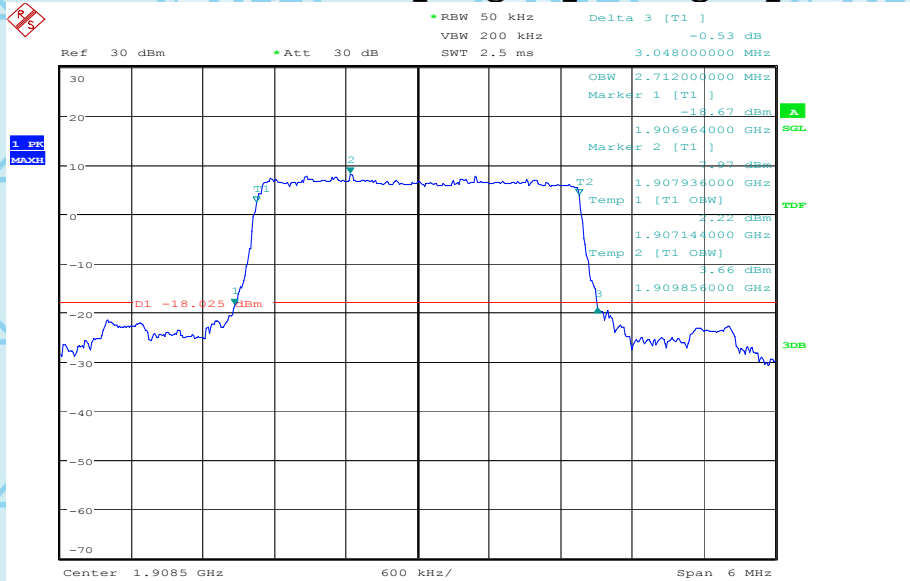
For Question,
Please Contact with WSCT
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BW3MHz-1908.5MHz,Q16-15RB_LOW@OBW_2.712MHz@26dB_2.988MHz



Date: 17.JUL.2018 16:30:15

BW3MHz-1908.5MHz,QPSK-15RB_LOW@OBW_2.712MHz@26dB_3.048MHz



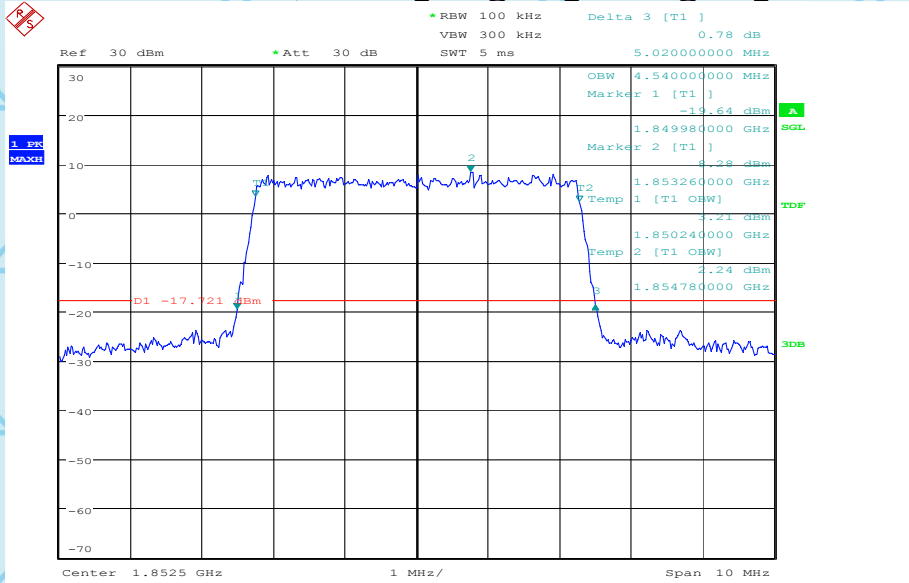
Date: 17.JUL.2018 16:29:43





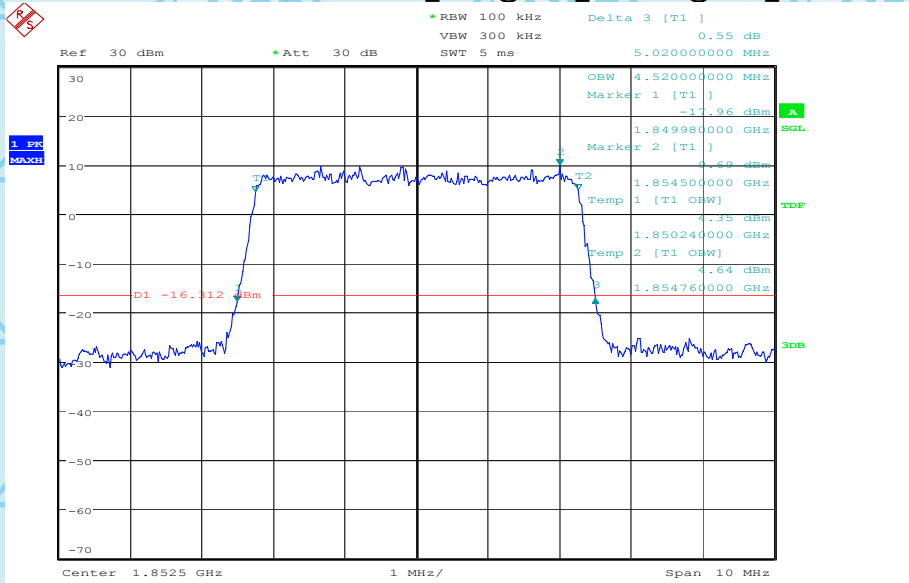
For Question,
Please Contact with WSCT
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BW5MHz-1852.5MHz,Q16-25RB_LOW@OBW_4.54MHz@26dB_5.02MHz



Date: 17.JUL.2018 16:31:55

BW5MHz-1852.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.02MHz



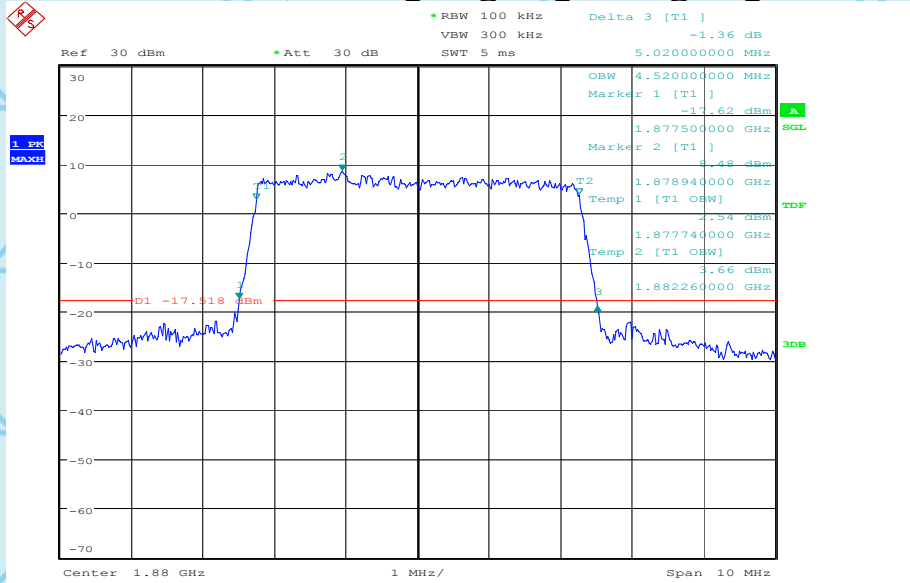
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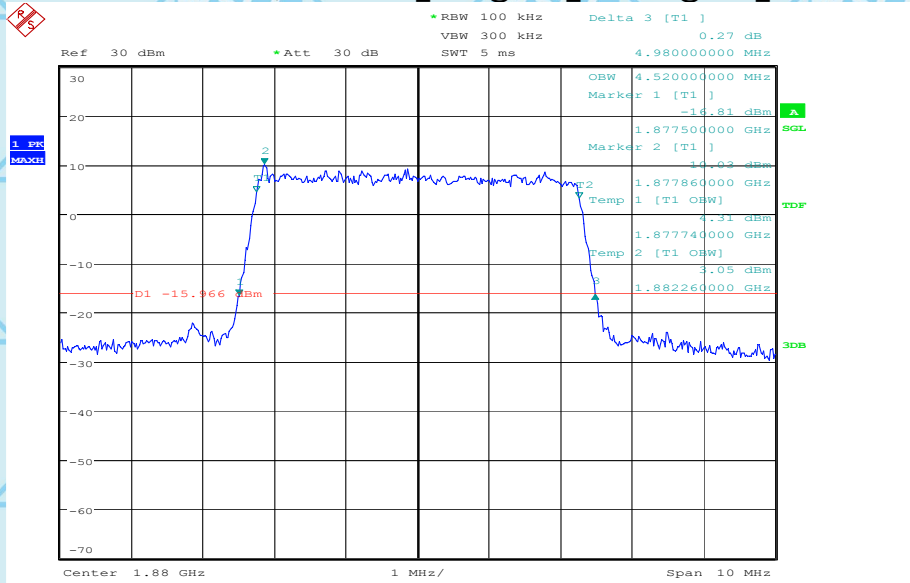
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BW5MHz-1880MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.02MHz



Date: 17.JUL.2018 16:33:50

BW5MHz-1880MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_4.98MHz



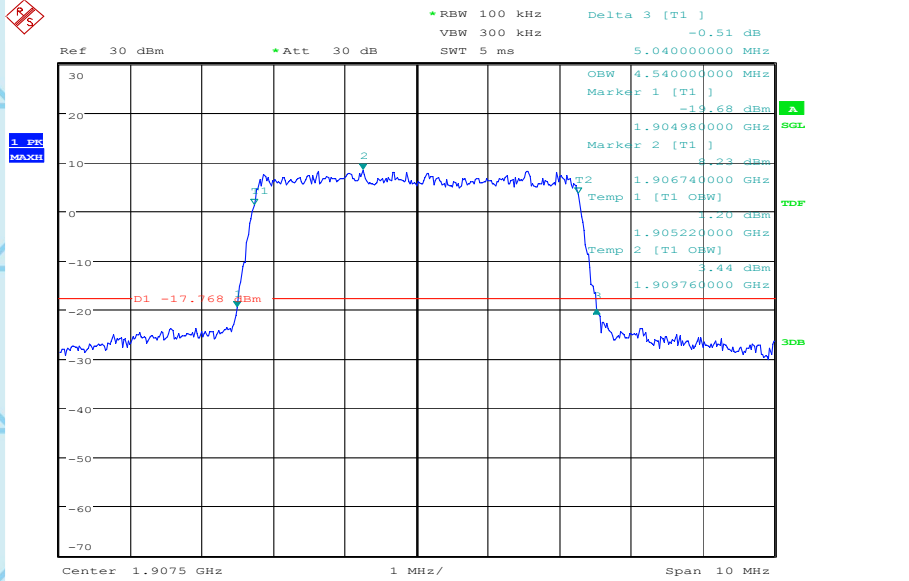
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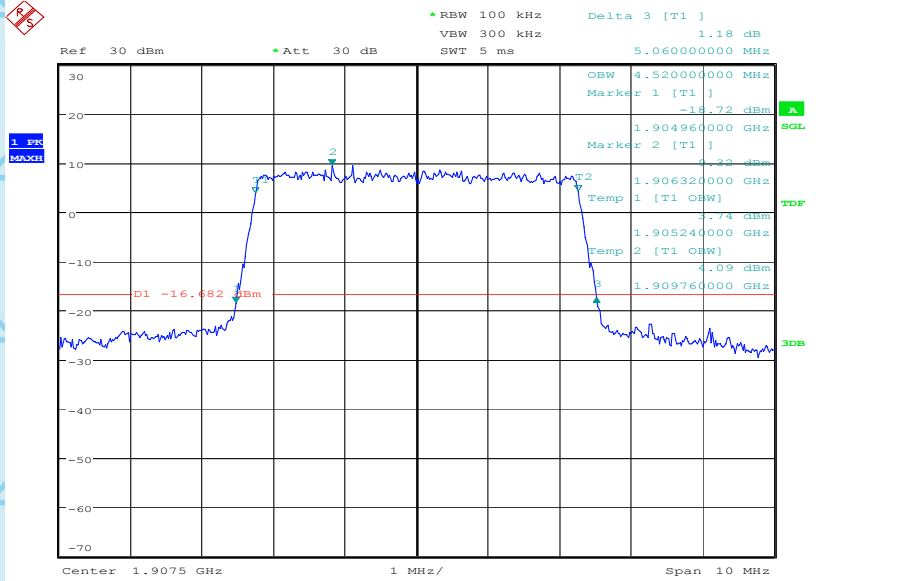
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BW5MHz-1907.5MHz,Q16-25RB_LOW@OBW_4.54MHz@26dB_5.04MHz



Date: 17.JUL.2018 16:33:05

BW5MHz-1907.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.06MHz



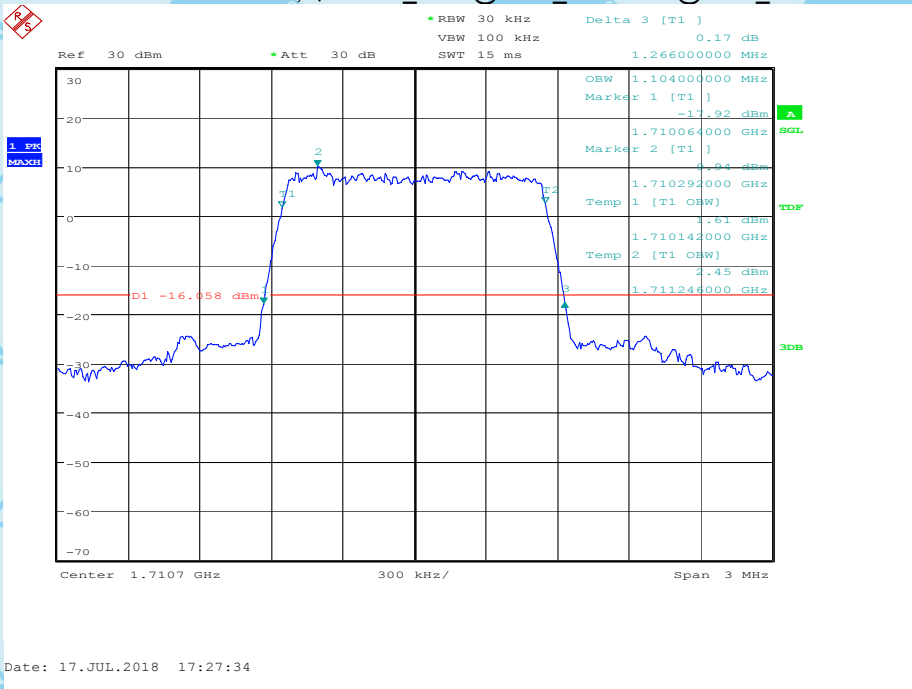
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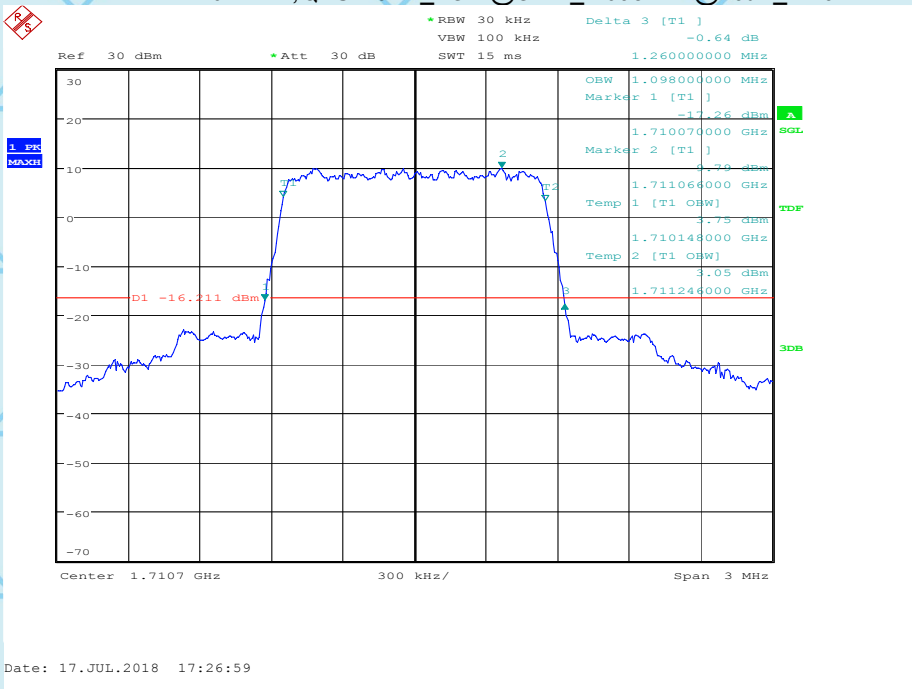


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BAND 4@Bandwidth BW1.4MHz-1710.7MHz,Q16-6RB_LOW@OBW_1.104MHz@26dB_1.266MHz



BW1.4MHz-1710.7MHz,QPSK-6RB_LOW@OBW_1.098MHz@26dB_1.26MHz

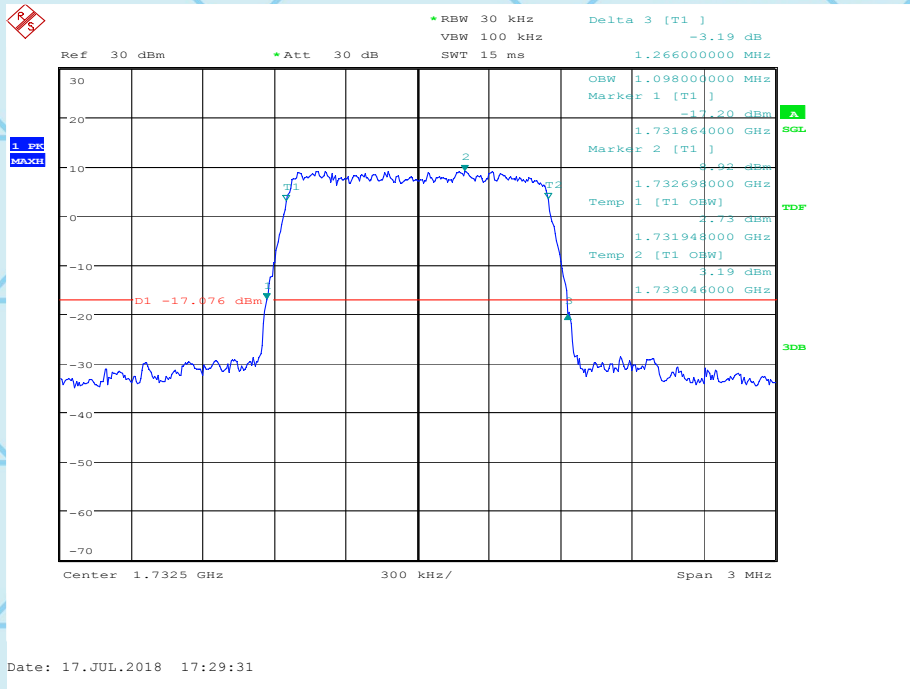


BW1.4MHz-1732.5MHz,Q16-6RB_LOW@OBW_1.098MHz@26dB_1.266MHz

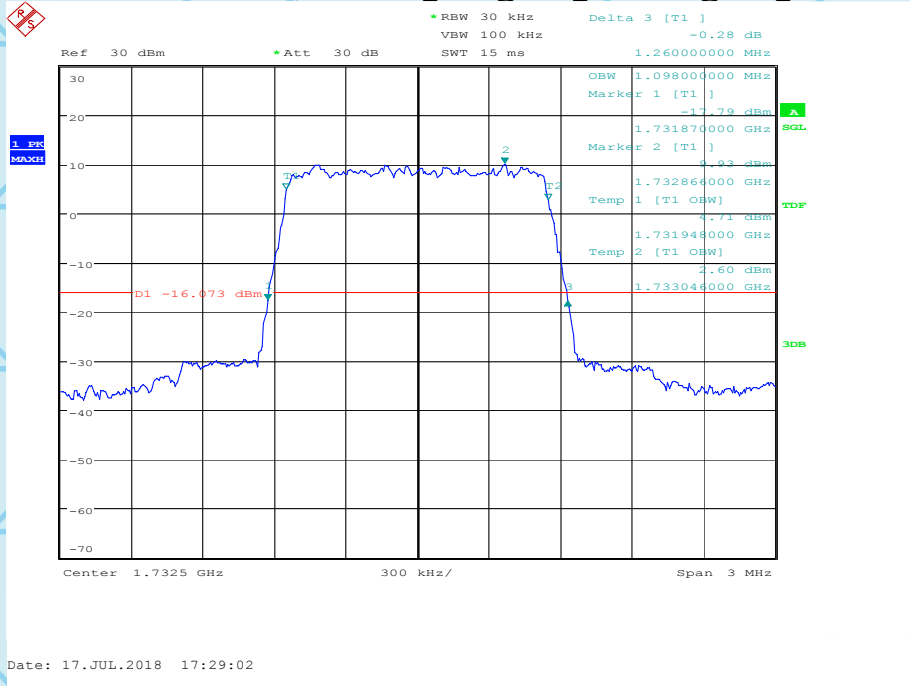




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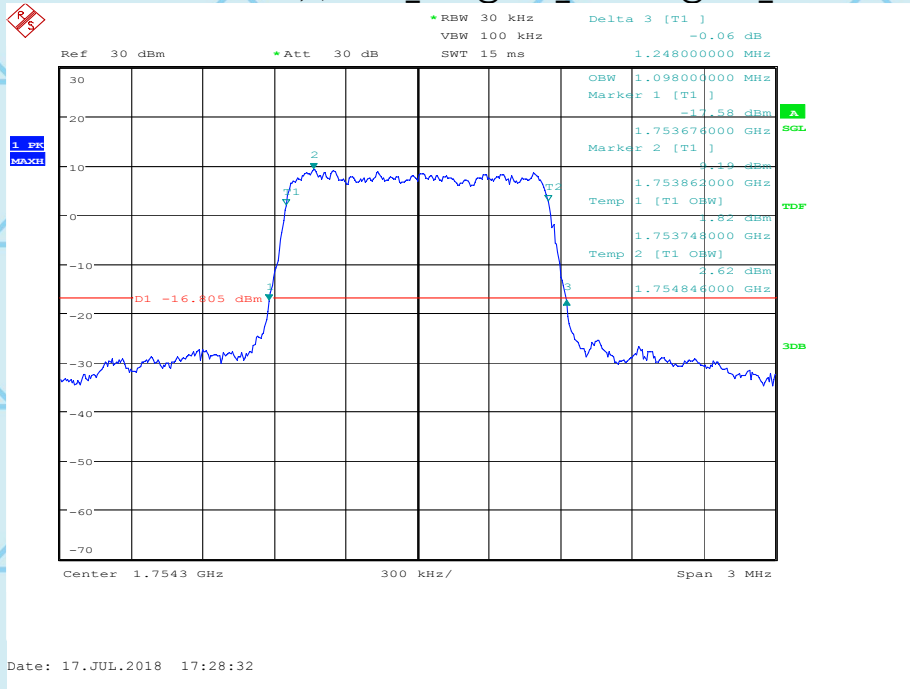
BW1.4MHz-1732.5MHz,QPSK-6RB_LOW@OBW_1.098MHz@26dB_1.26MHz



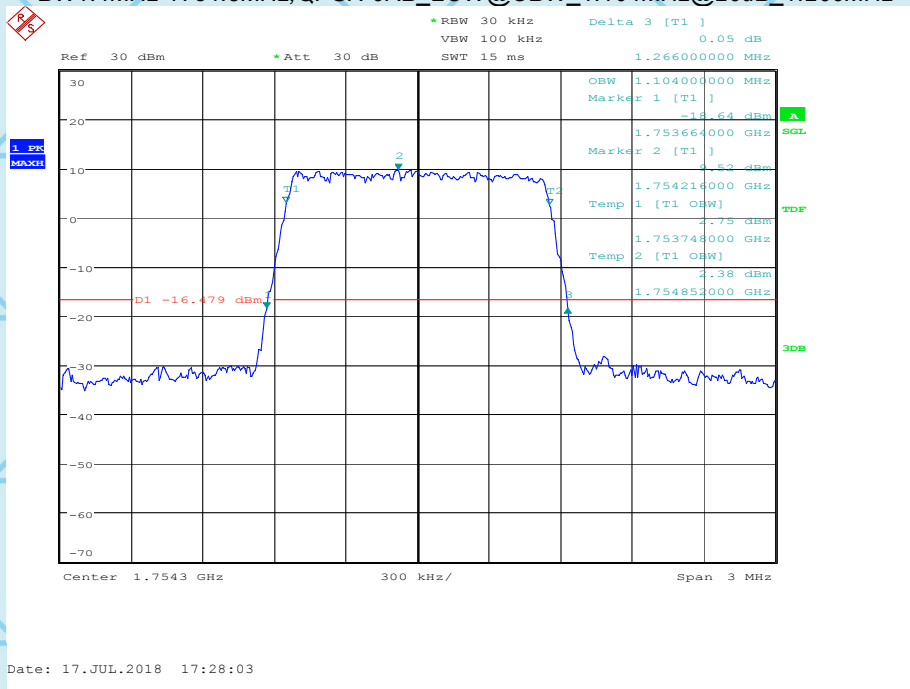


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BW1.4MHz-1754.3MHz,Q16-6RB_LOW@OBW_1.098MHz@26dB_1.248MHz



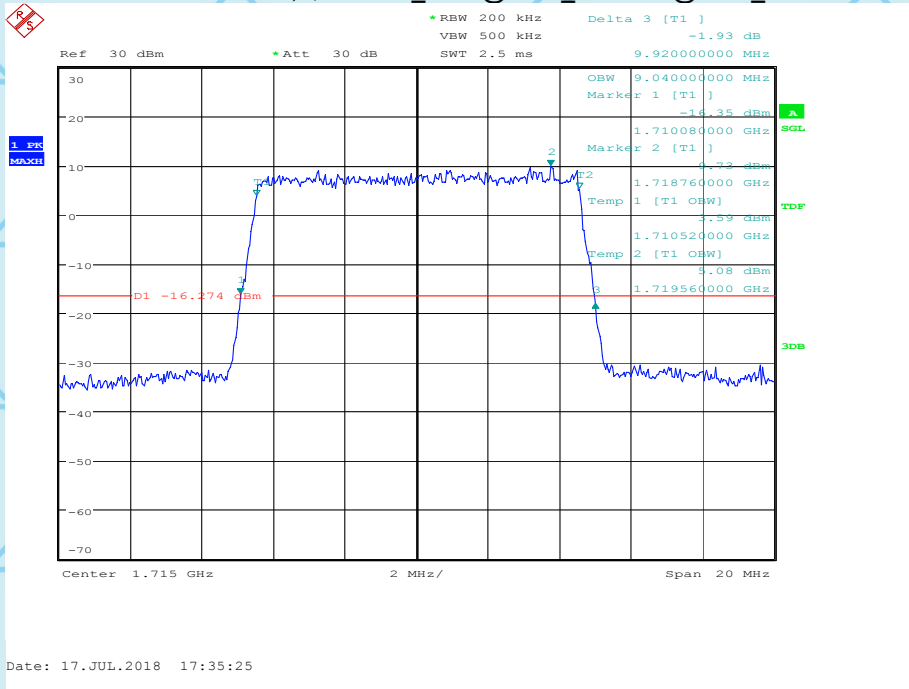
BW1.4MHz-1754.3MHz,QPSK-6RB_LOW@OBW_1.104MHz@26dB_1.266MHz



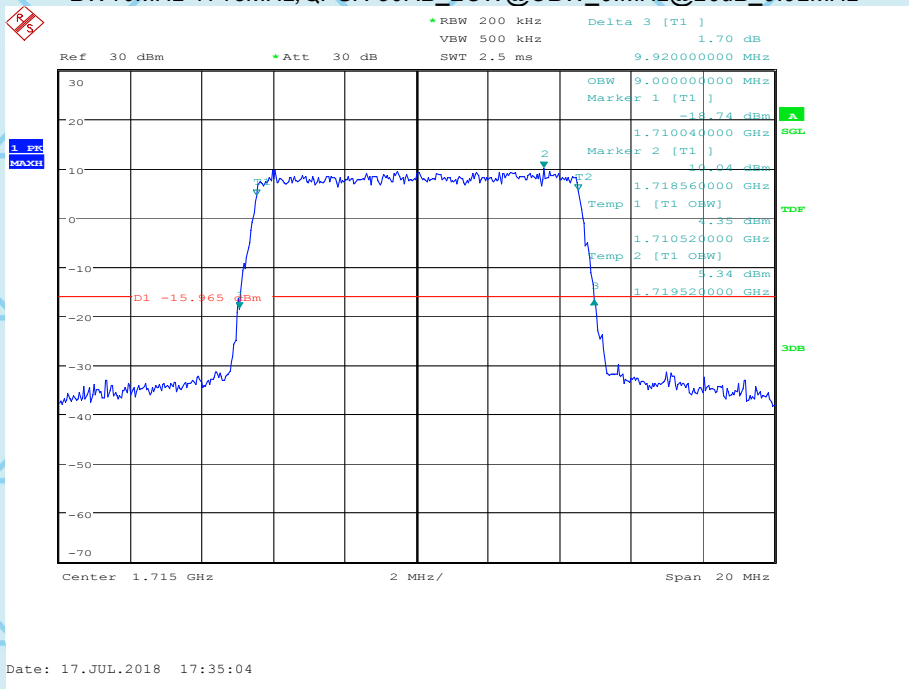


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BW10MHz-1715MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.92MHz



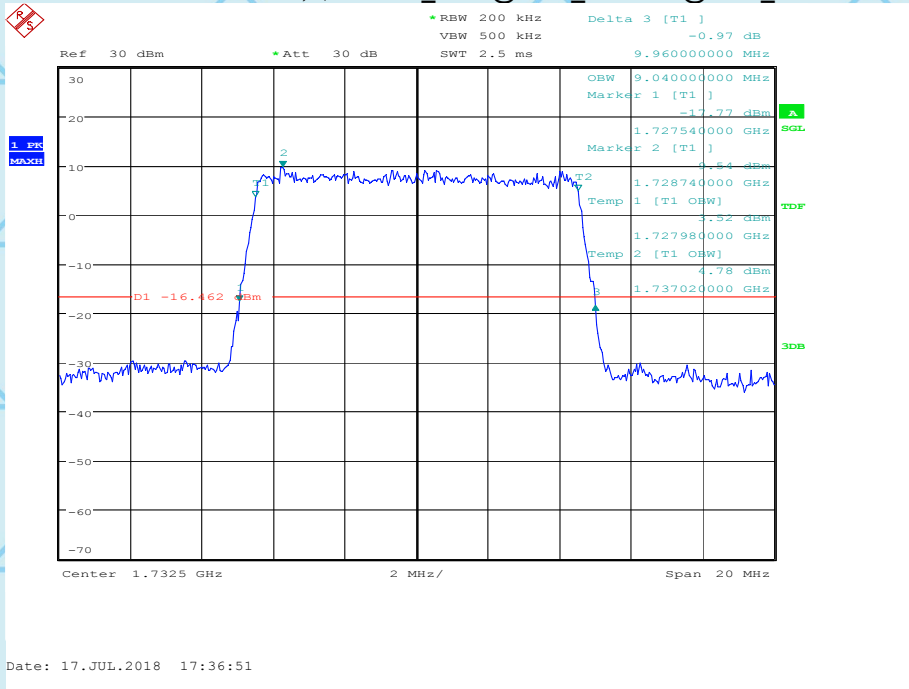
BW10MHz-1715MHz,QPSK-50RB_LOW@OBW_9.MHz@26dB_9.92MHz



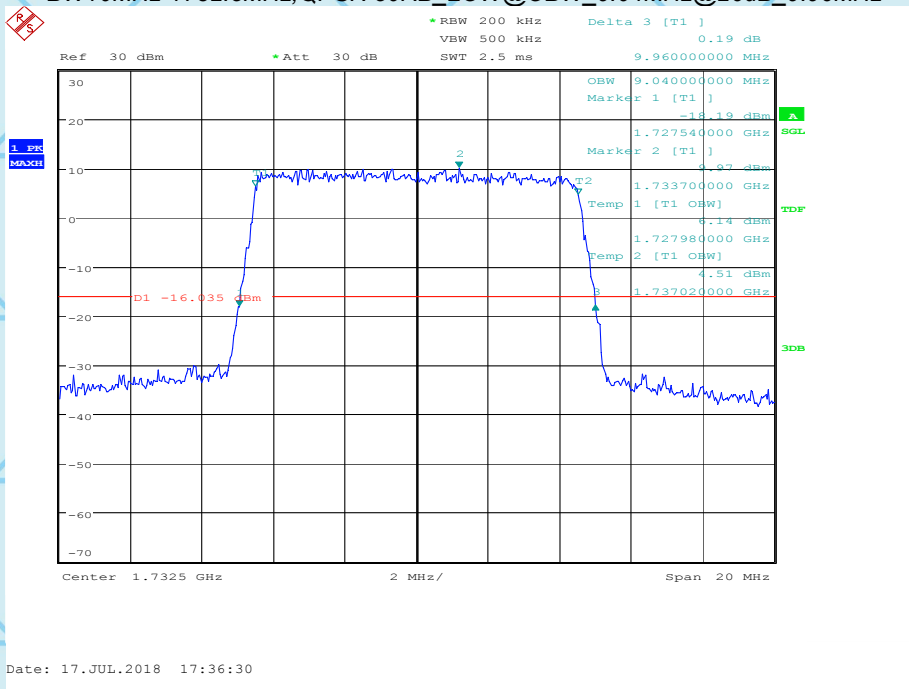


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BW10MHz-1732.5MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.96MHz



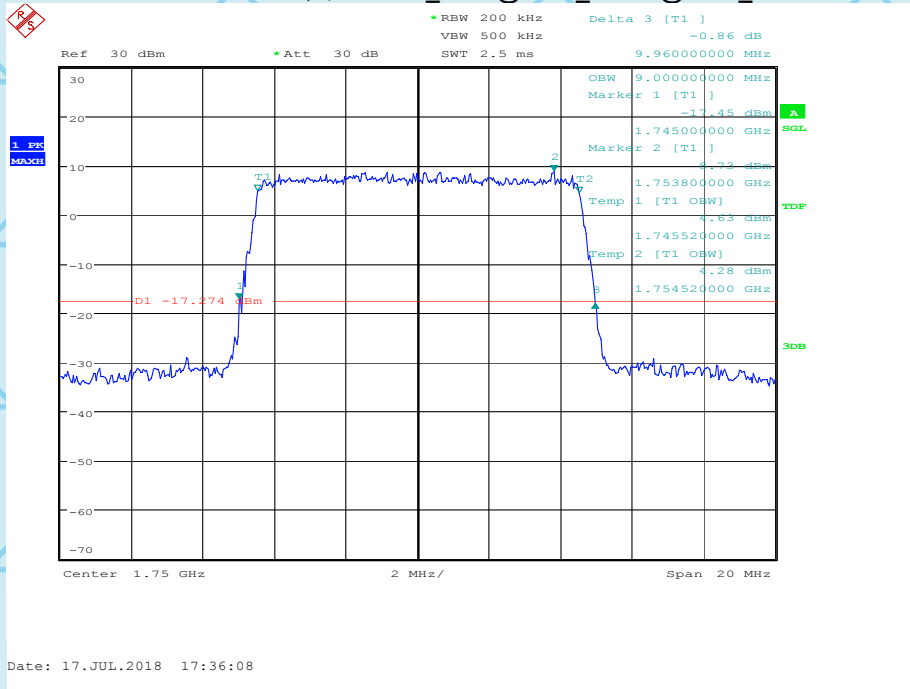
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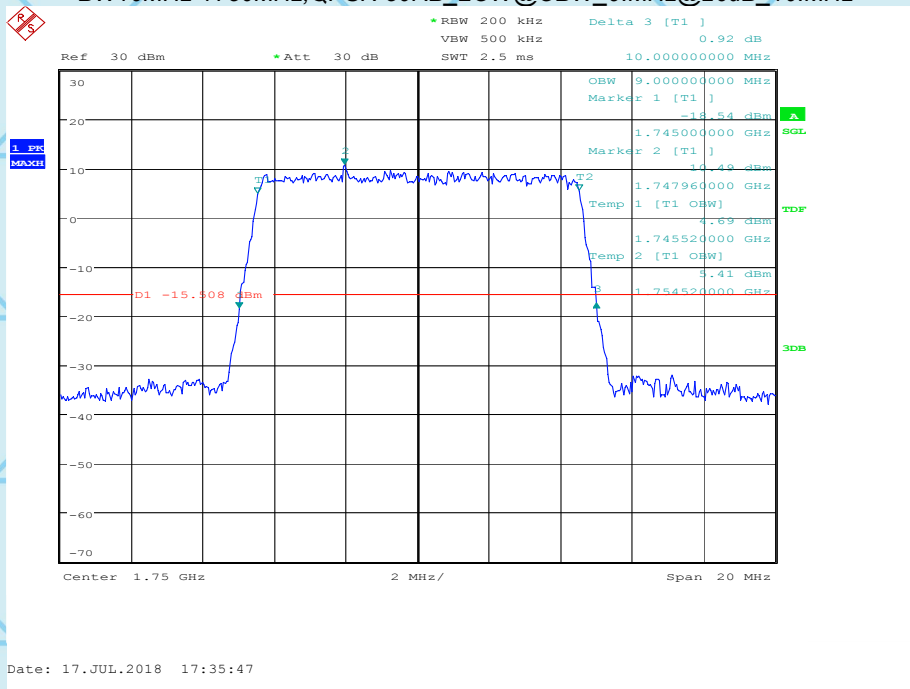


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BW10MHz-1750MHz,Q16-50RB_LOW@OBW_9.MHz@26dB_9.96MHz



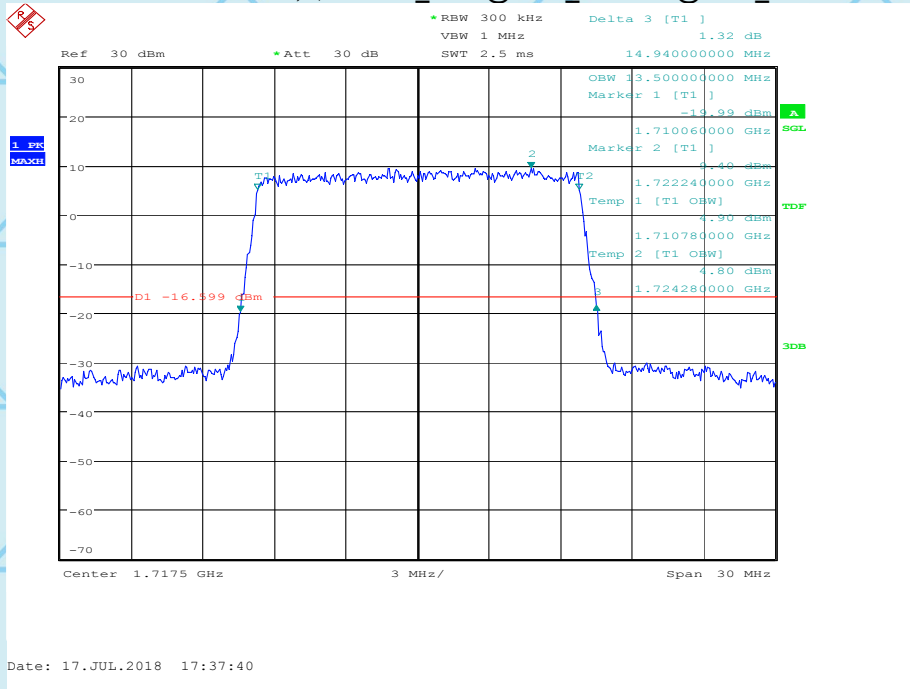
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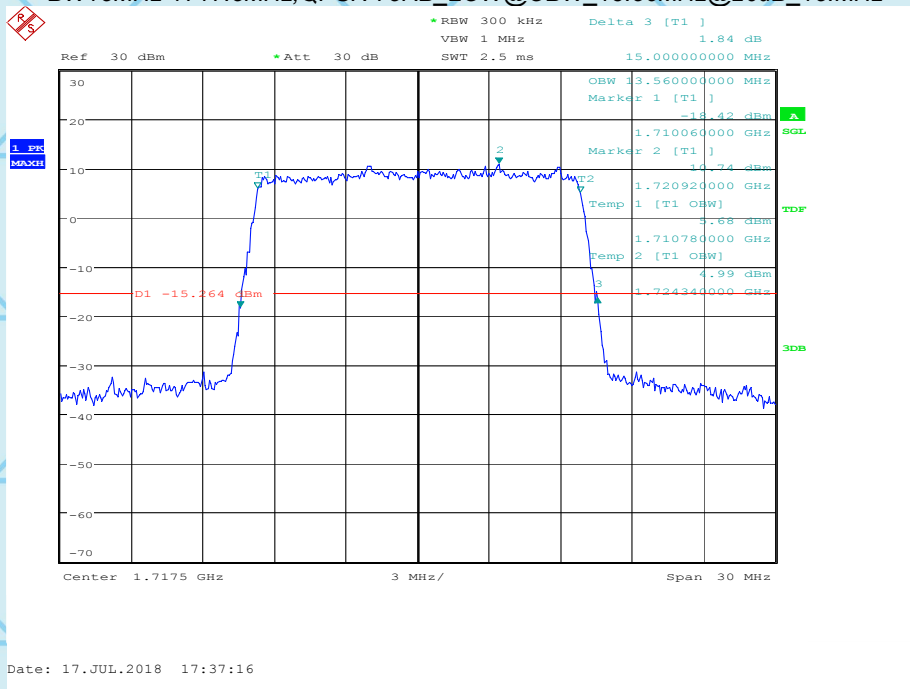


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BW15MHz-1717.5MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_14.94MHz



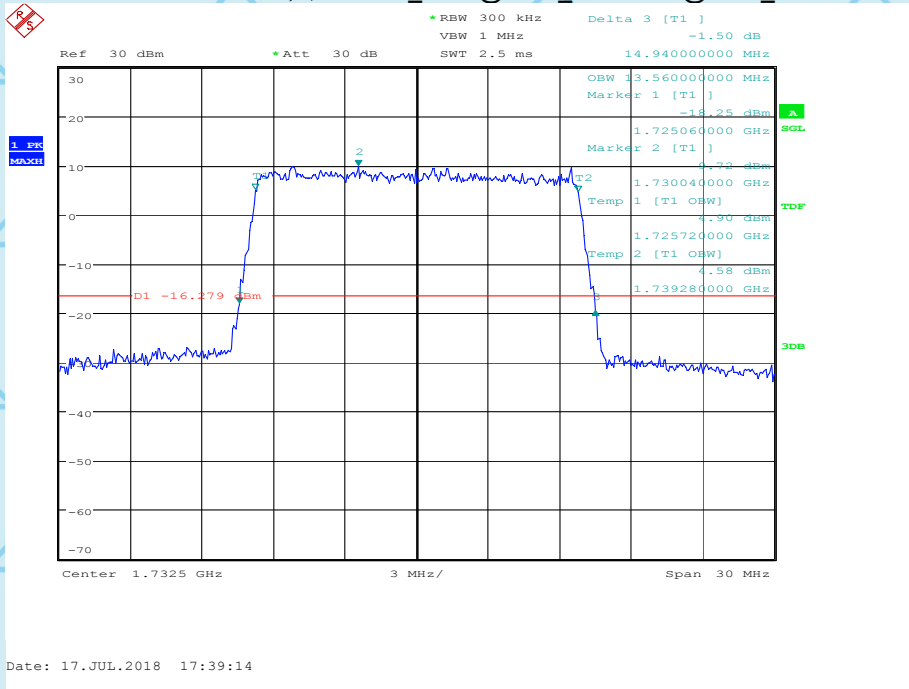
BW15MHz-1717.5MHz,QPSK-75RB_LOW@OBW_13.56MHz@26dB_15.MHz



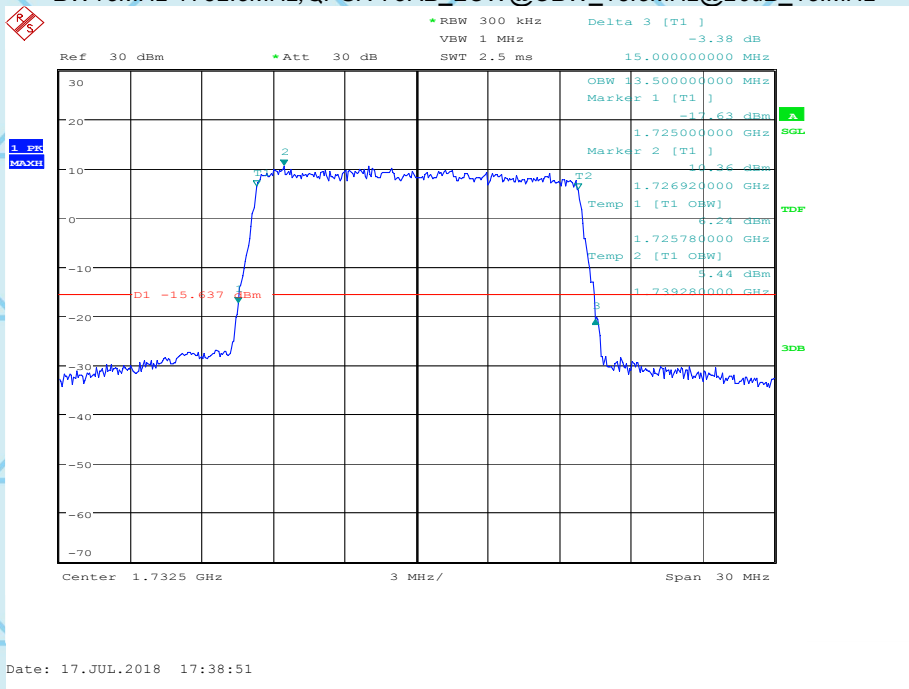


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BW15MHz-1732.5MHz,Q16-75RB_LOW@OBW_13.56MHz@26dB_14.94MHz



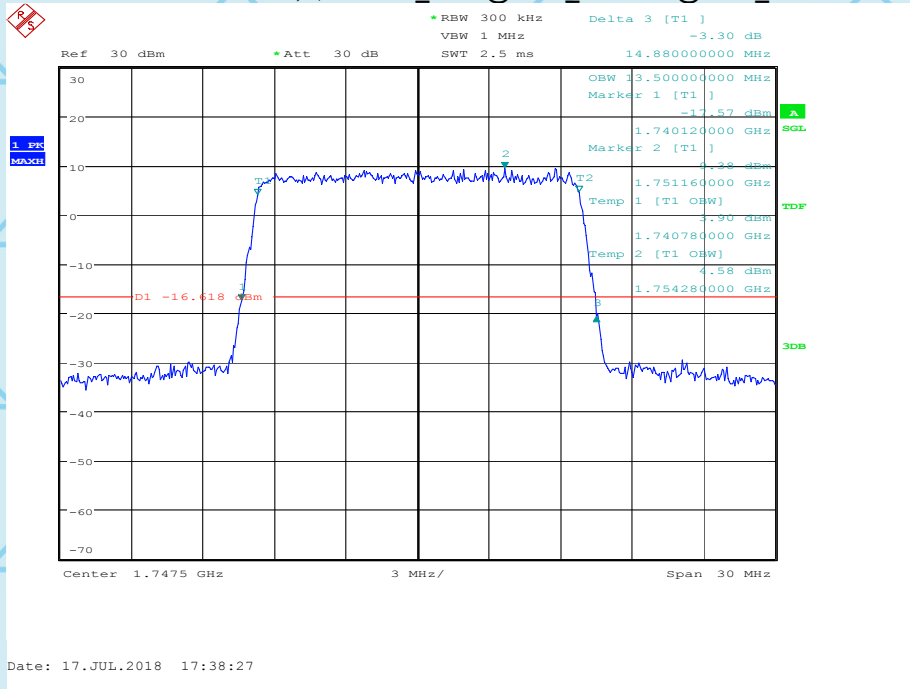
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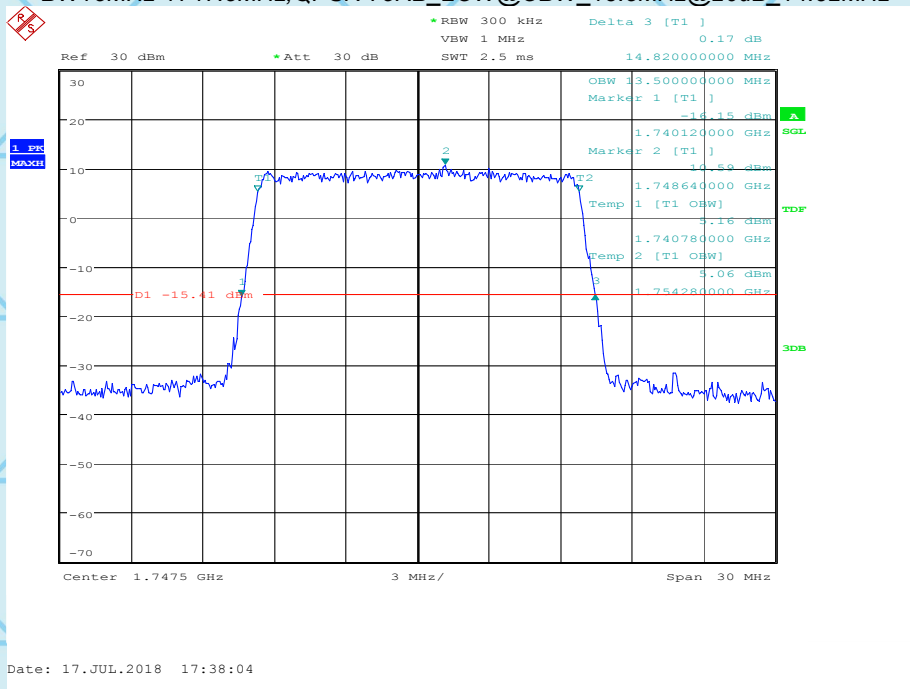


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BW15MHz-1747.5MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_14.88MHz



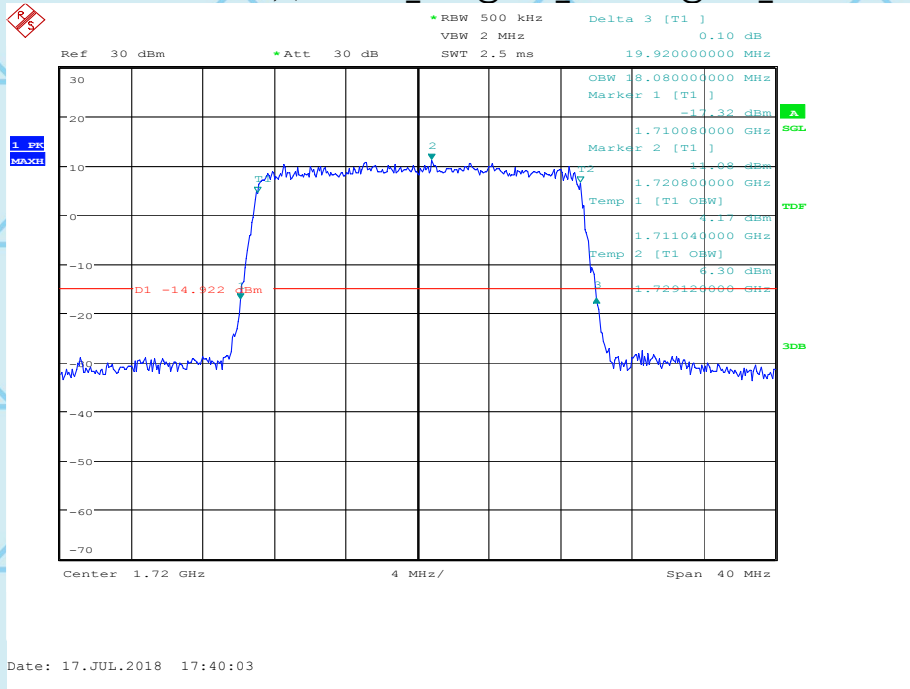
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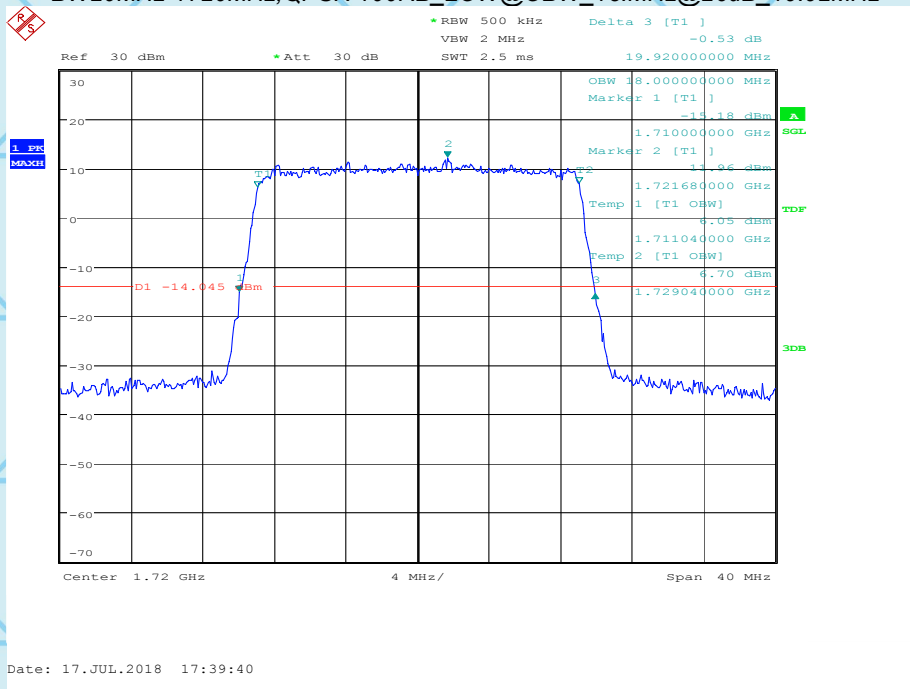


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BW20MHz-1720MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



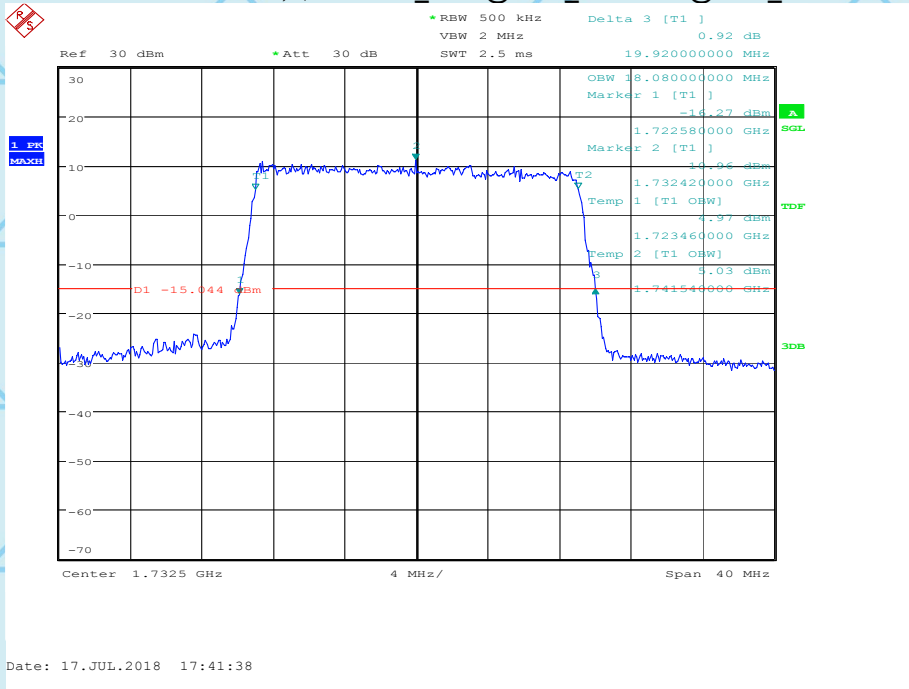
BW20MHz-1720MHz,QPSK-100RB_LOW@OBW_18.MHz@26dB_19.92MHz



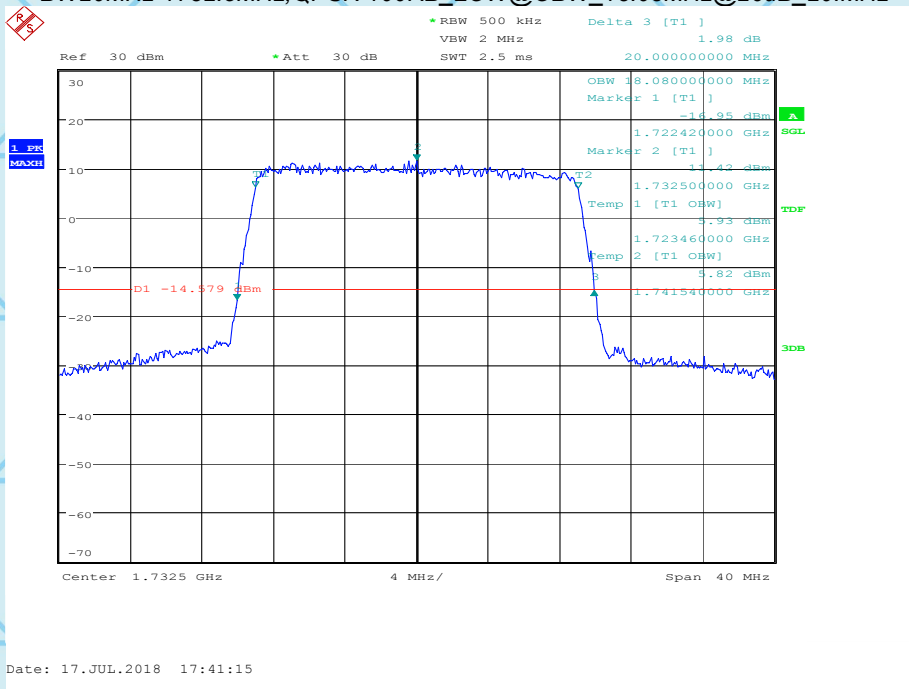


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BW20MHz-1732.5MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



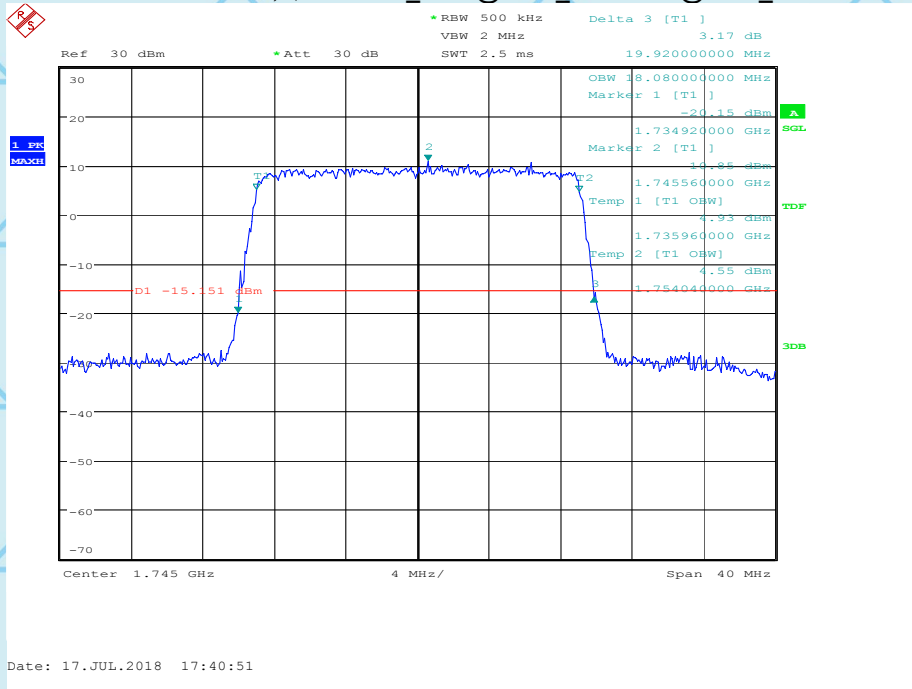
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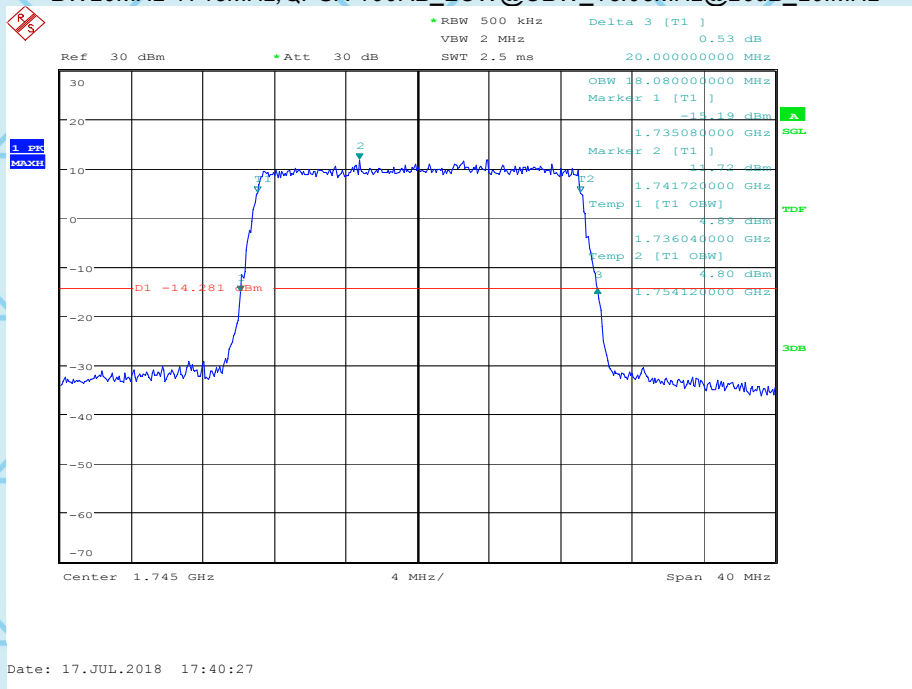


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BW20MHz-1745MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



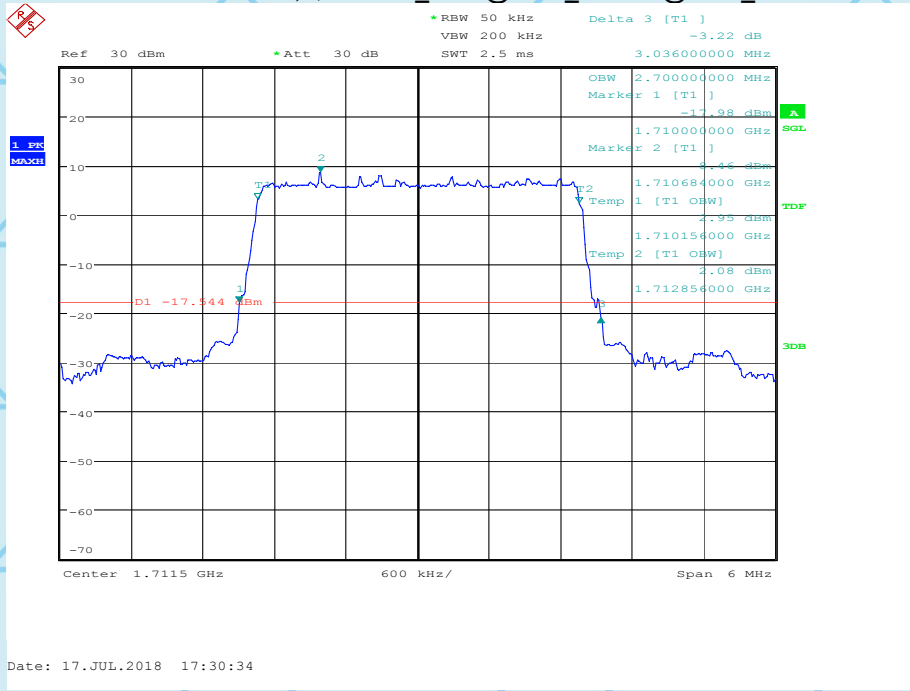
BW20MHz-1745MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_20.MHz





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BW3MHz-1711.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_3.036MHz



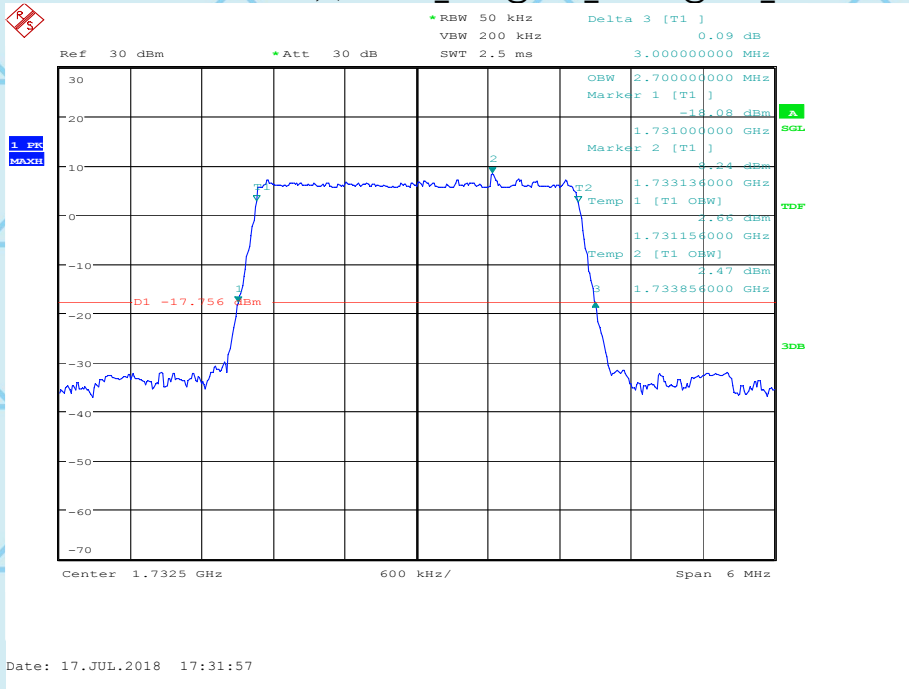
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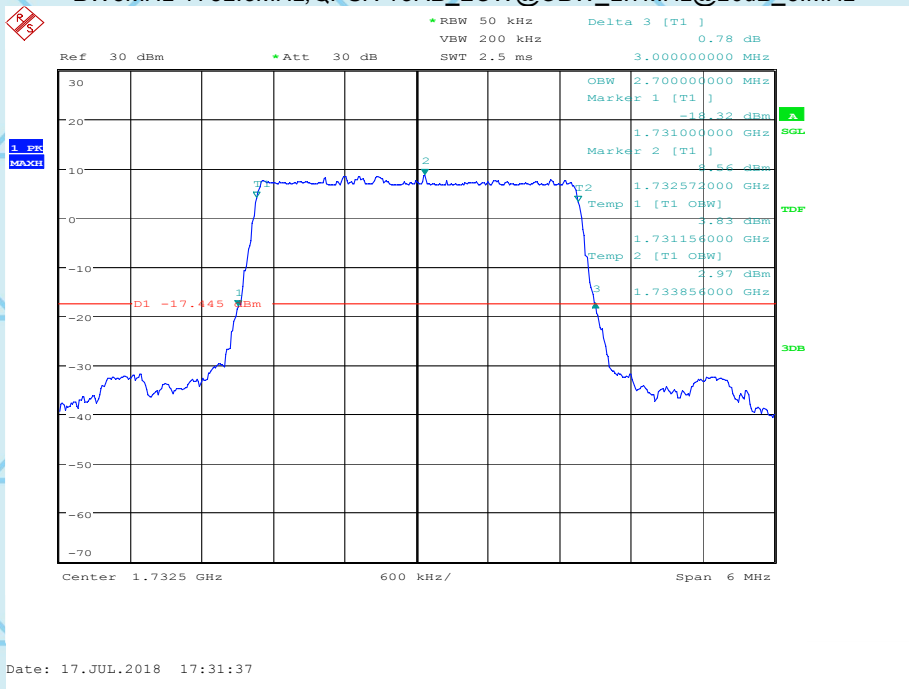


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BW3MHz-1732.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_3.MHz



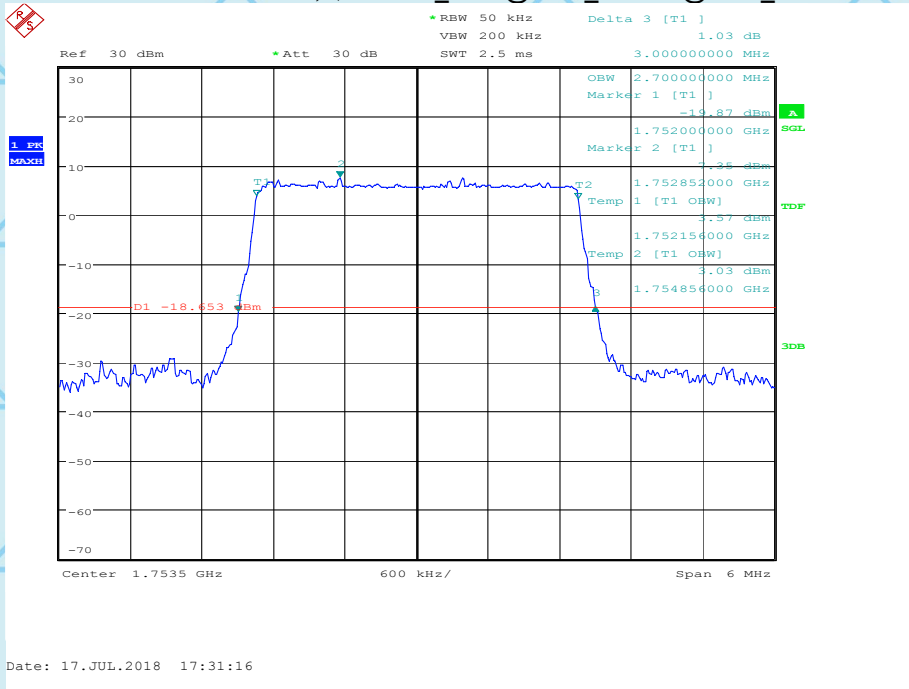
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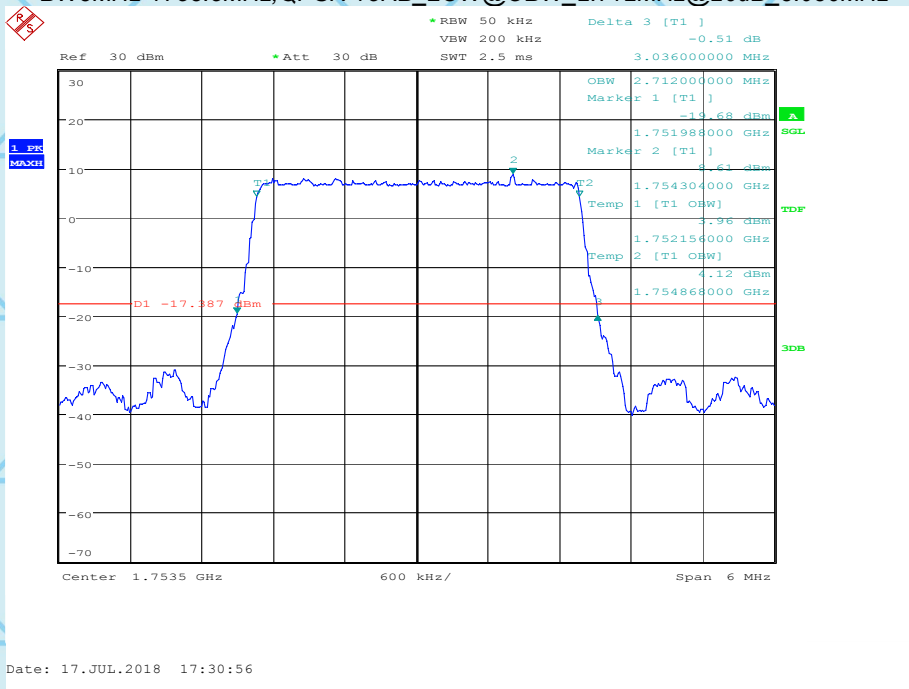


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BW3MHz-1753.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_3.MHz



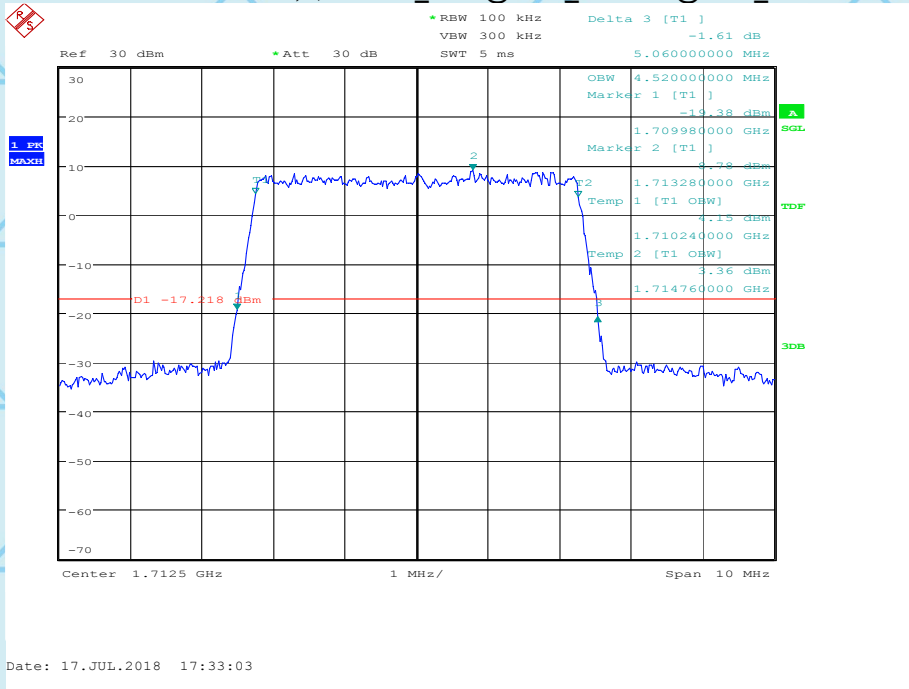
BW3MHz-1753.5MHz,QPSK-15RB_LOW@OBW_2.712MHz@26dB_3.036MHz



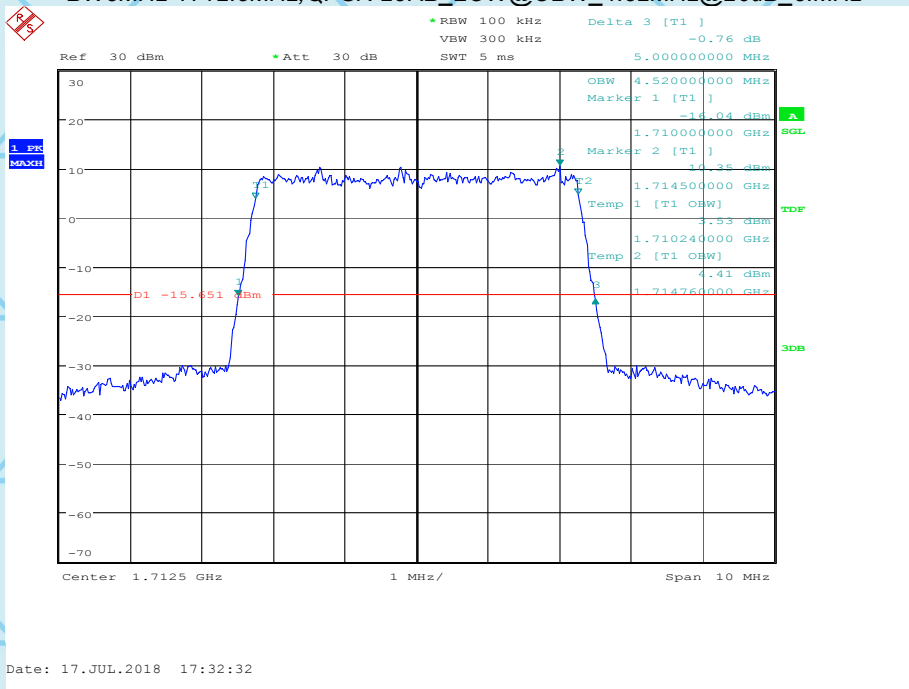


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BW5MHz-1712.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.06MHz



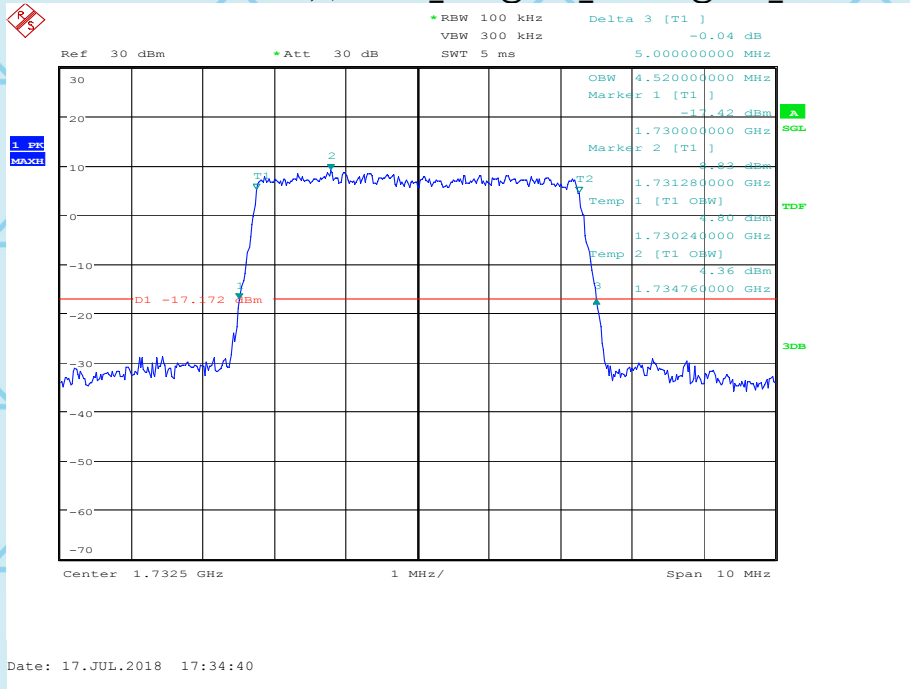
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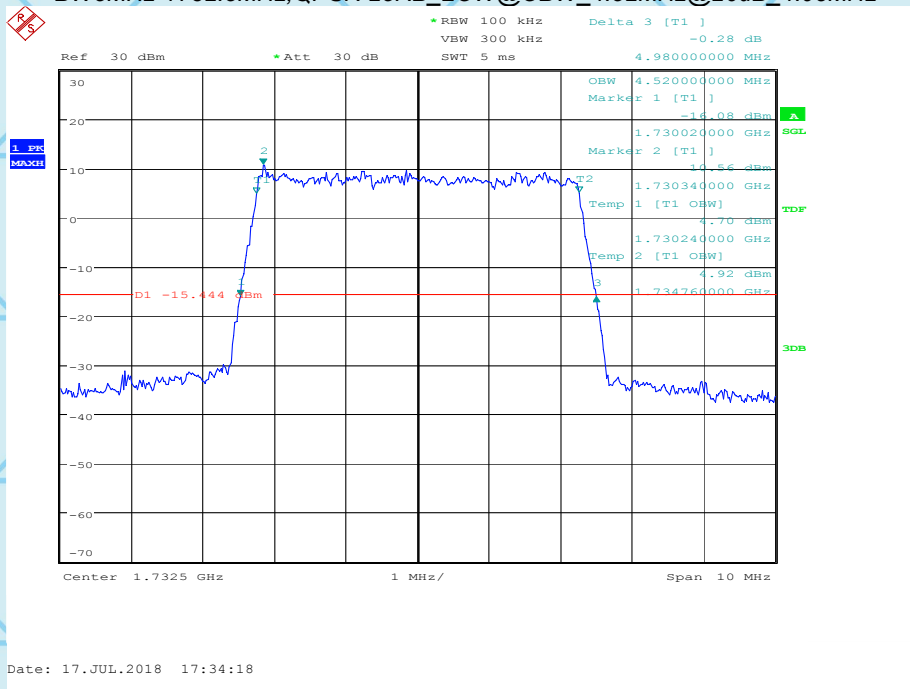


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BW5MHz-1732.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.MHz



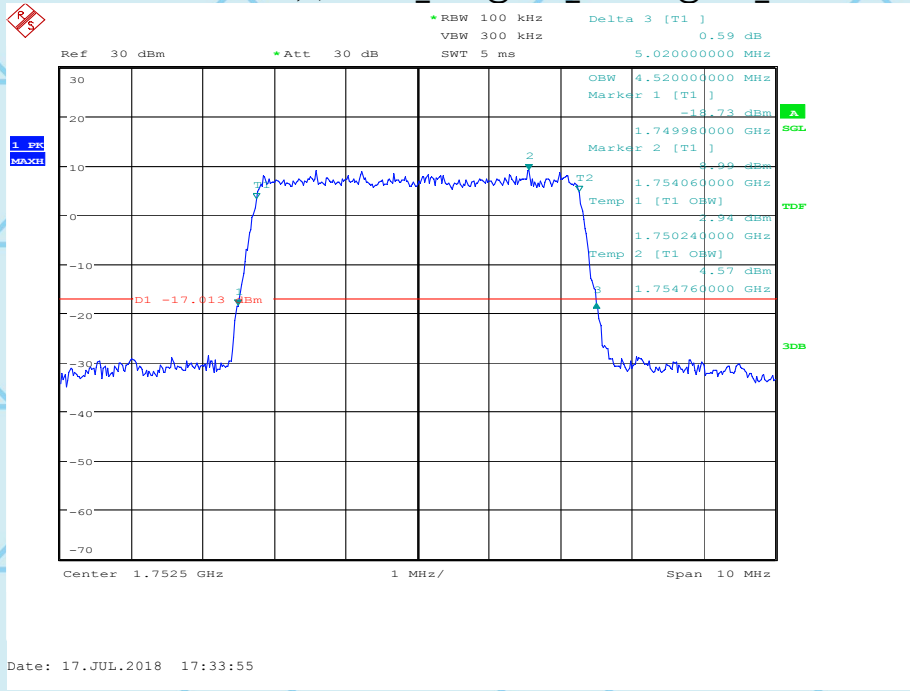
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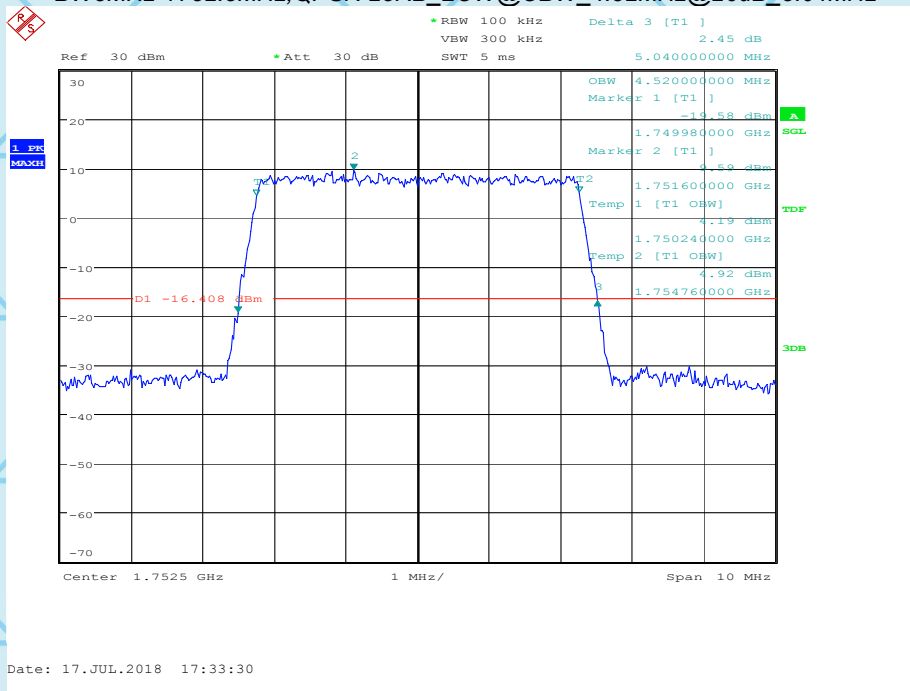


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BW5MHz-1752.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.02MHz



BW5MHz-1752.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.04MHz

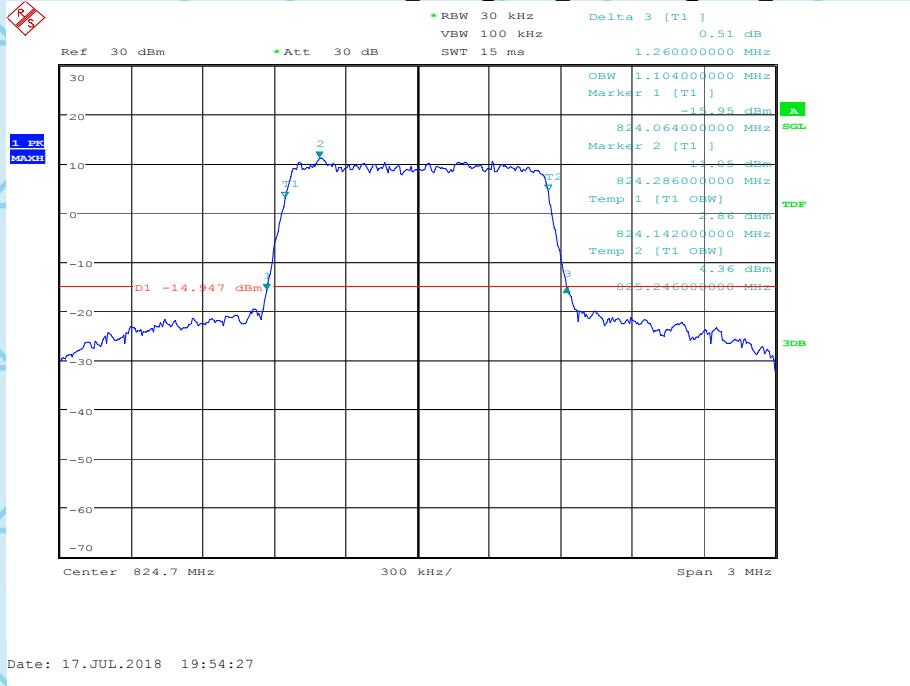




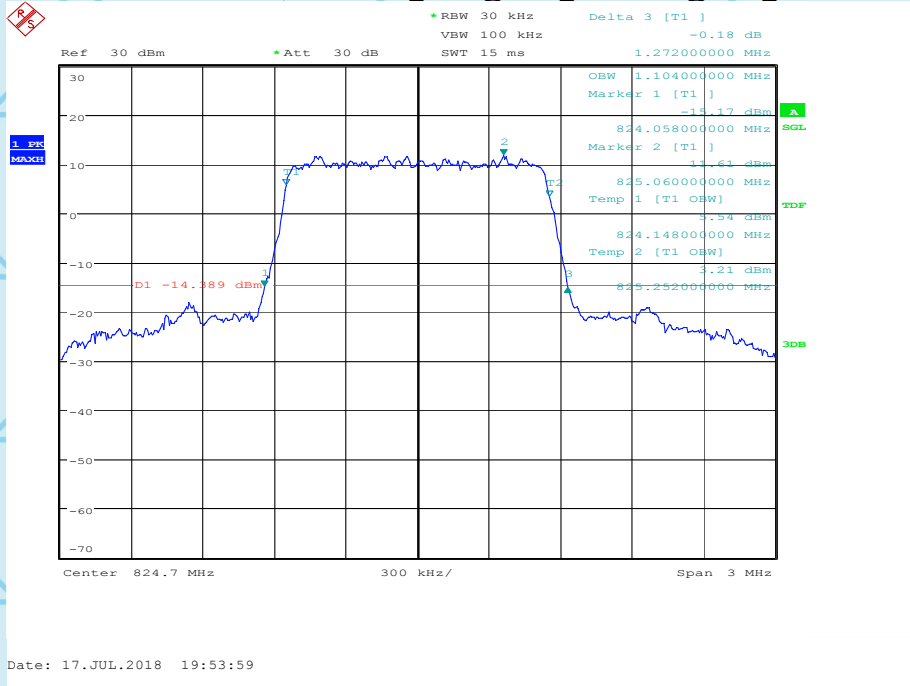
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BAND 5 @Bandwidth

BW1.4MHz-824.7MHz,Q16-6RB_LOW@OBW_1.104MHz@26dB_1.26MHz



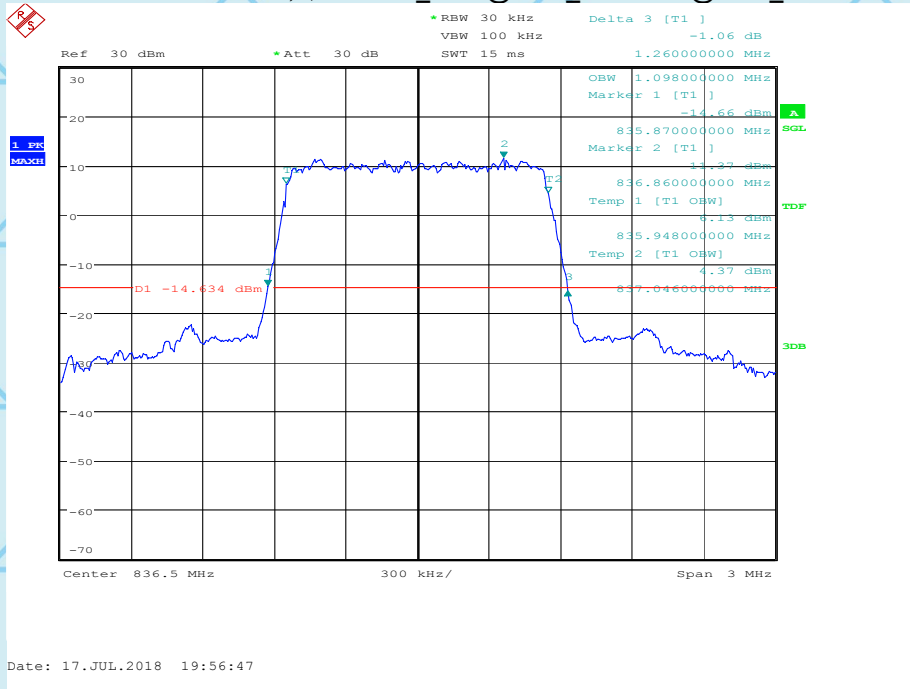
BW1.4MHz-824.7MHz,QPSK-6RB_LOW@OBW_1.104MHz@26dB_1.272MHz



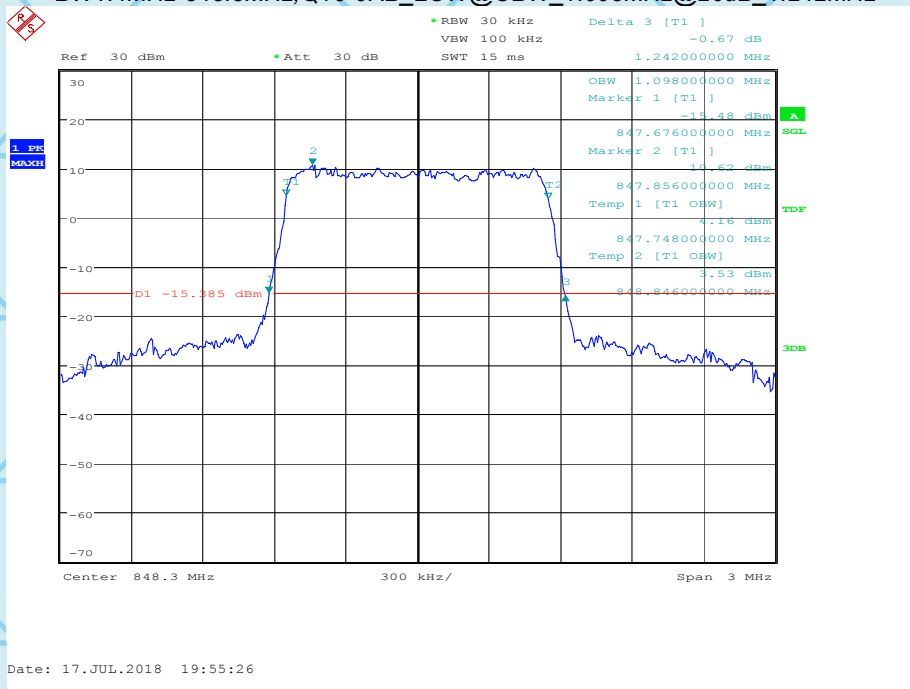


For Question, Please Contact with WSCT www.wsct-cert.com

BW1.4MHz-836.5MHz,QPSK-6RB_LOW@OBW_1.098MHz@26dB_1.26MHz



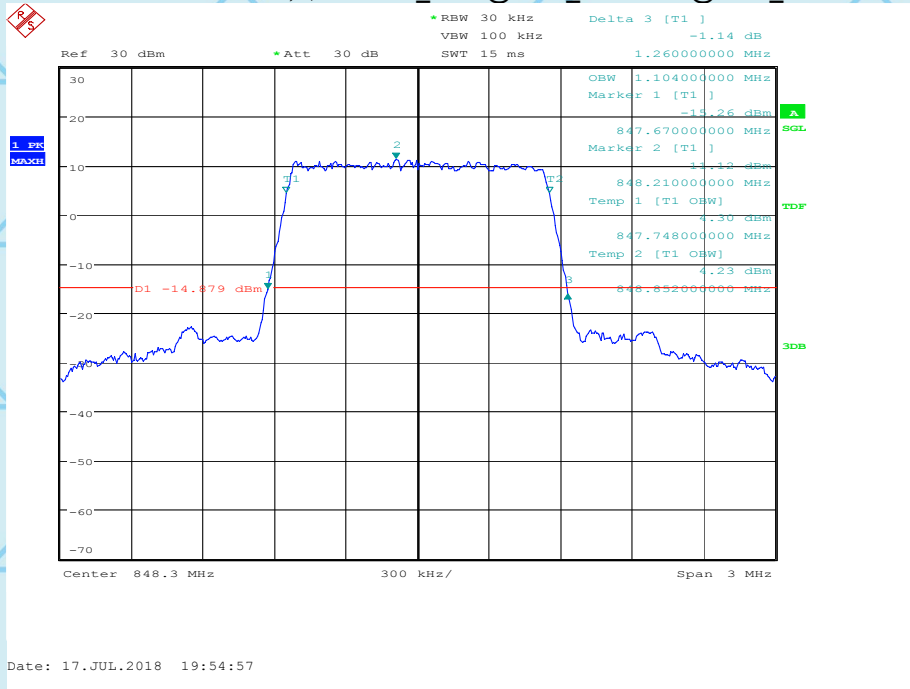
BW1.4MHz-848.3MHz,Q16-6RB_LOW@OBW_1.098MHz@26dB_1.242MHz



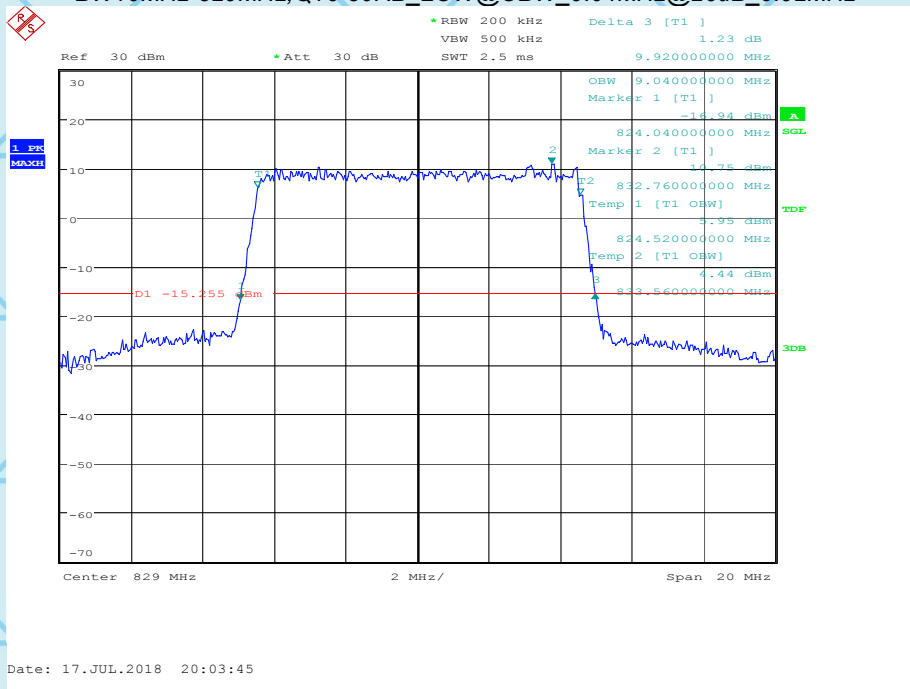


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BW1.4MHz-848.3MHz,QPSK-6RB_LOW@OBW_1.104MHz@26dB_1.26MHz



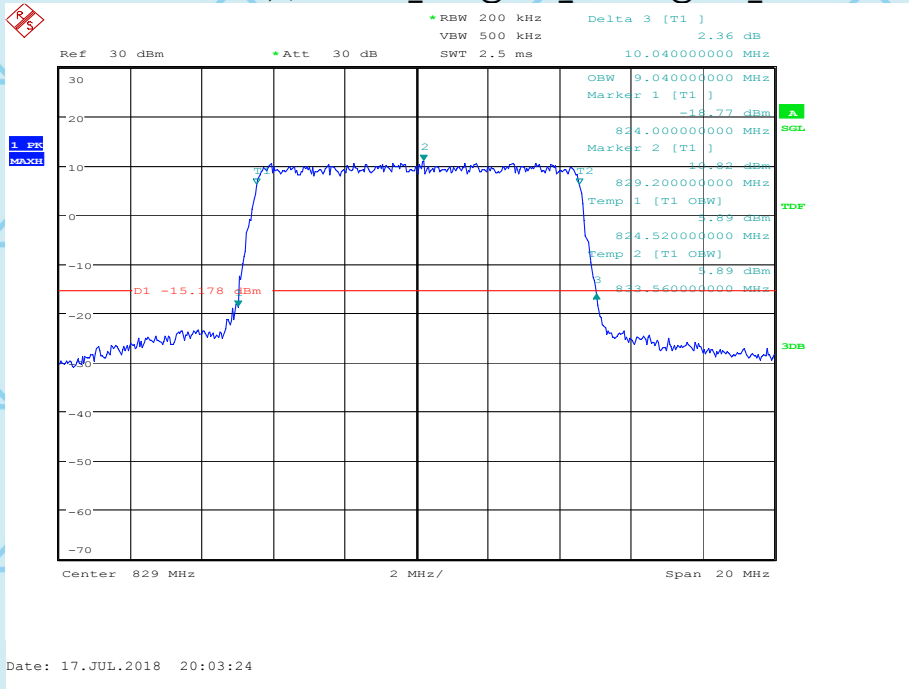
BW10MHz-829MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.92MHz



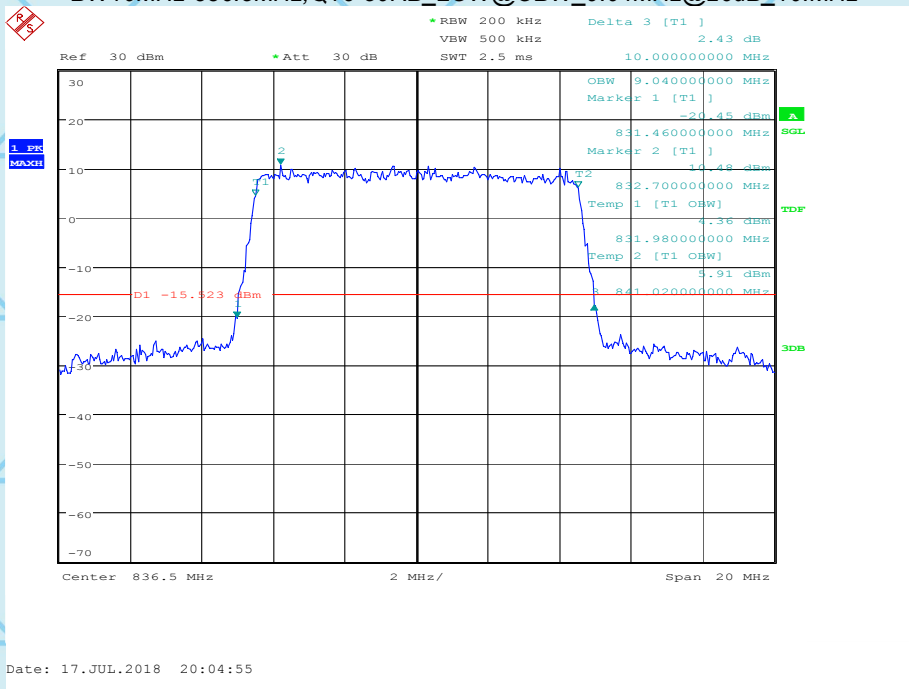


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BW10MHz-829MHz,QPSK-50RB_LOW@OBW_9.04MHz@26dB_10.04MHz



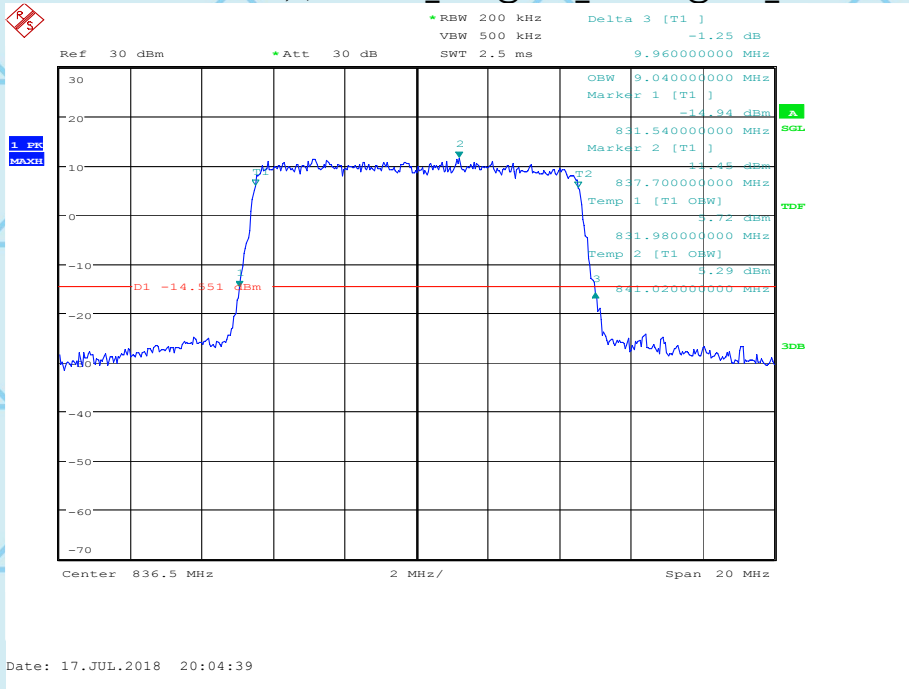
BW10MHz-836.5MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_10.MHz



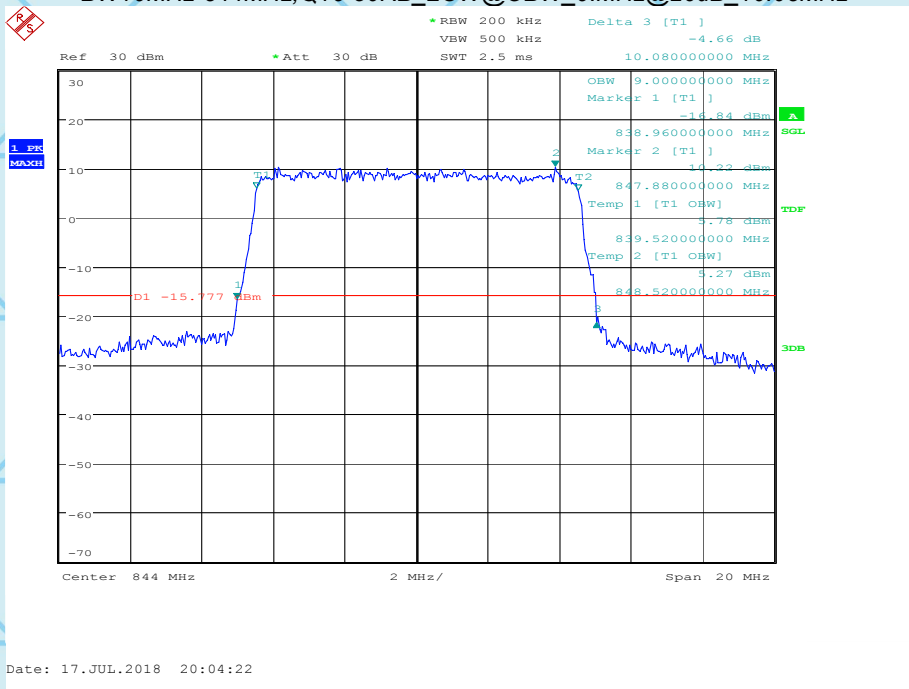


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BW10MHz-836.5MHz,QPSK-50RB_LOW@OBW_9.04MHz@26dB_9.96MHz



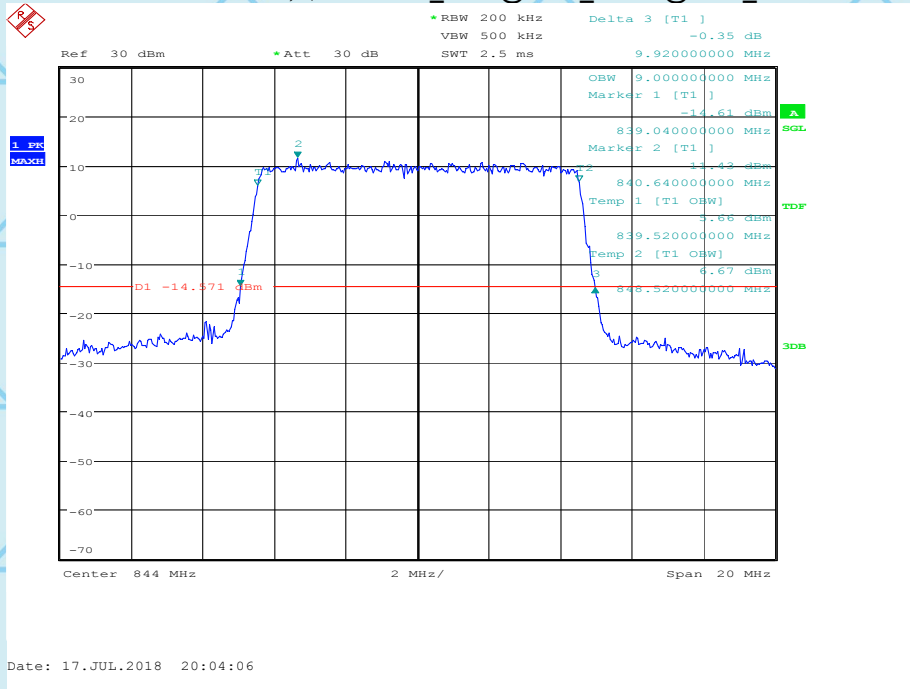
BW10MHz-844MHz,Q16-50RB_LOW@OBW_9.MHz@26dB_10.08MHz



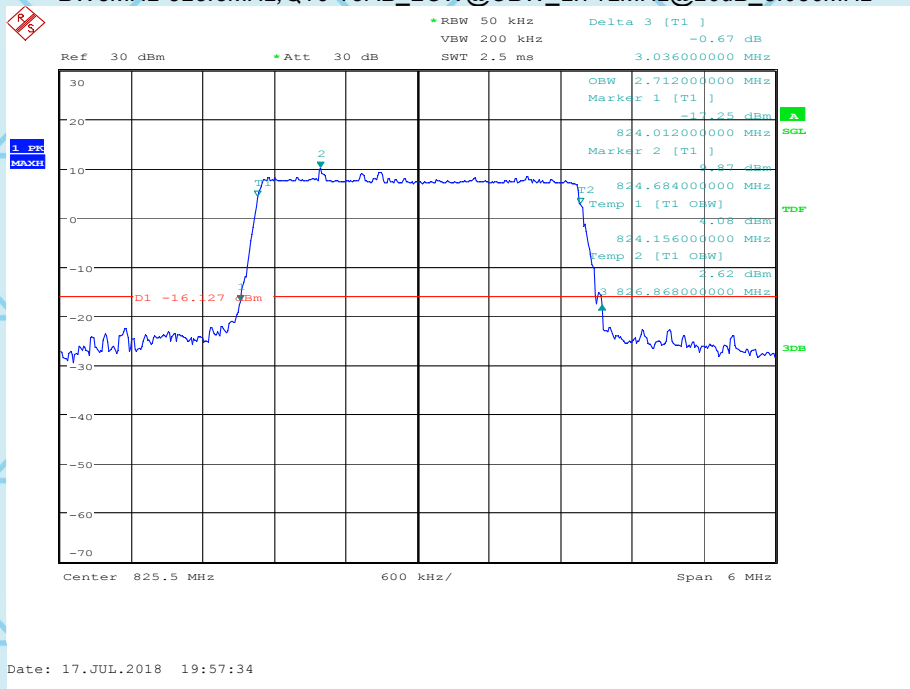


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BW10MHz-844MHz,QPSK-50RB_LOW@OBW_9.92MHz@26dB_9.92MHz



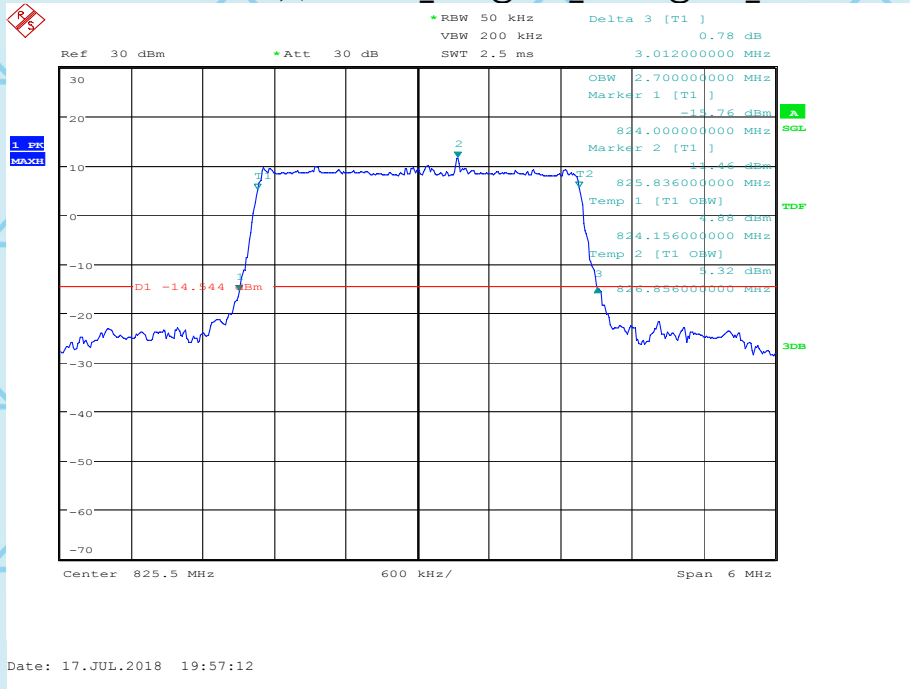
BW3MHz-825.5MHz,Q16-15RB_LOW@OBW_2.712MHz@26dB_3.036MHz



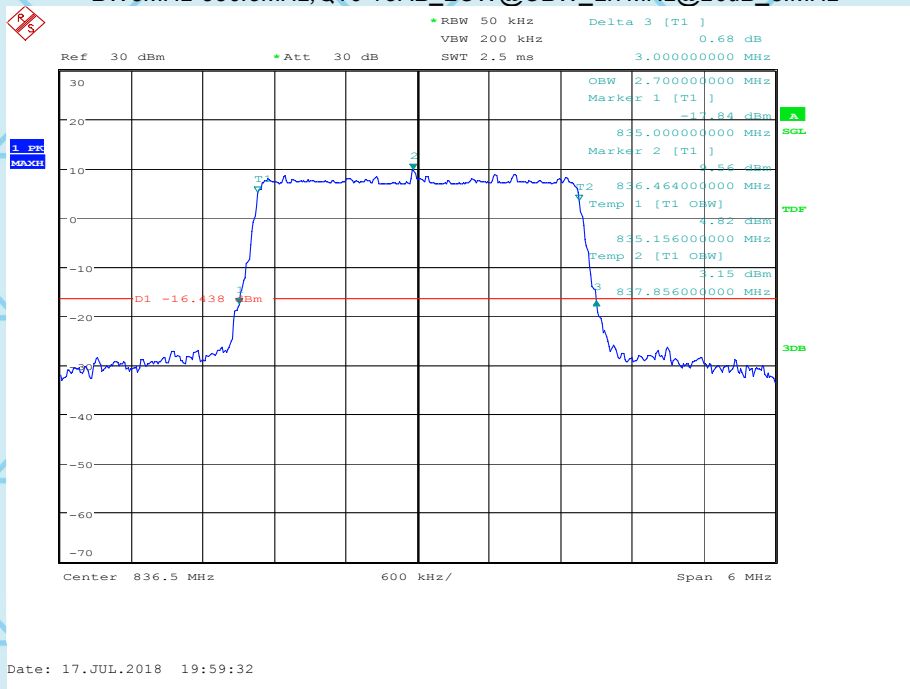


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BW3MHz-825.5MHz,QPSK-15RB_LOW@OBW_2.7MHz@26dB_3.012MHz



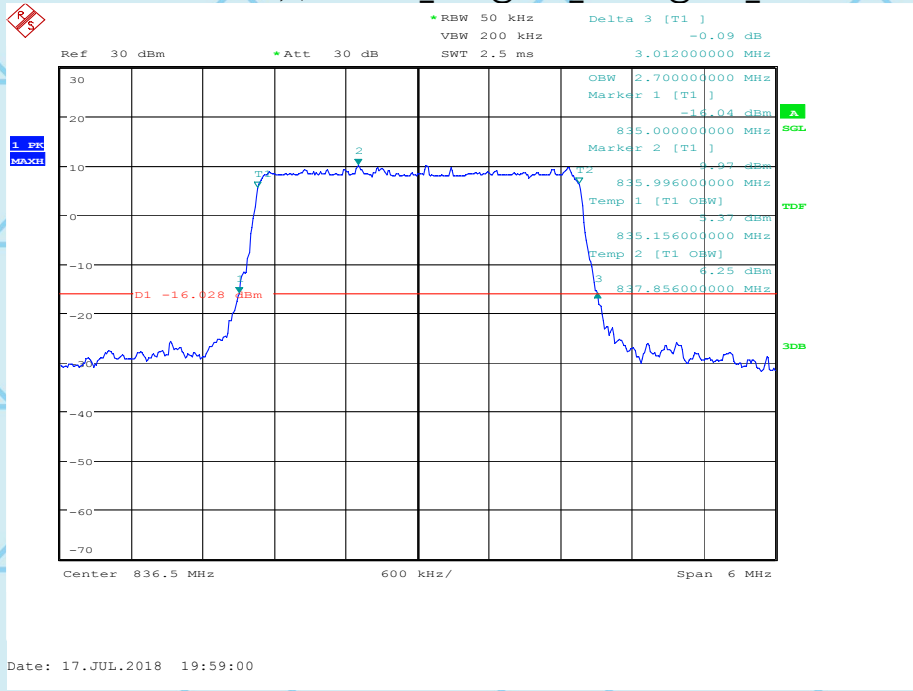
BW3MHz-836.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_3.MHz



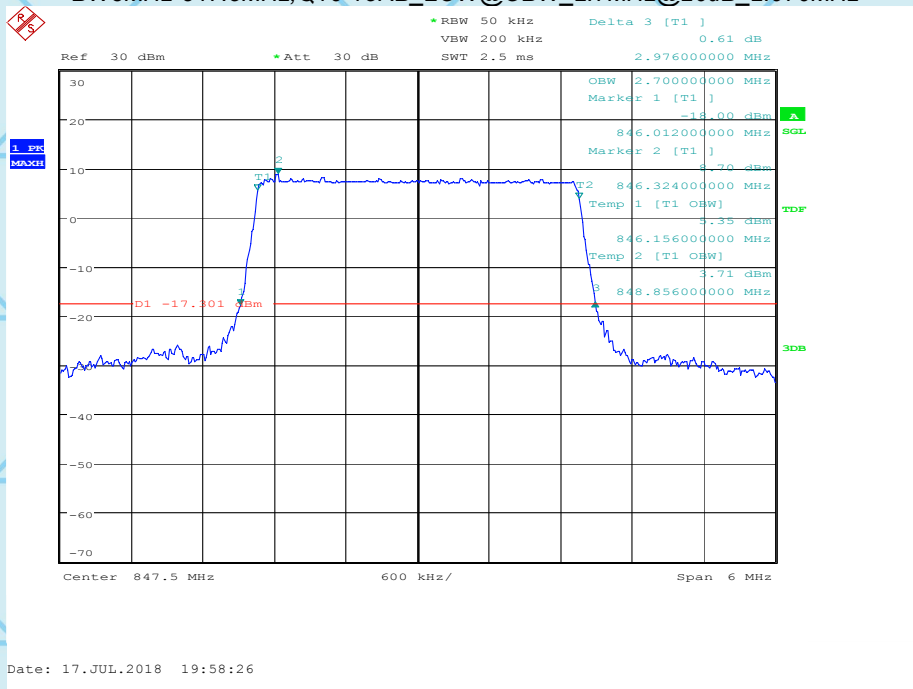


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BW3MHz-836.5MHz,QPSK-15RB_LOW@OBW_2.7MHz@26dB_3.012MHz



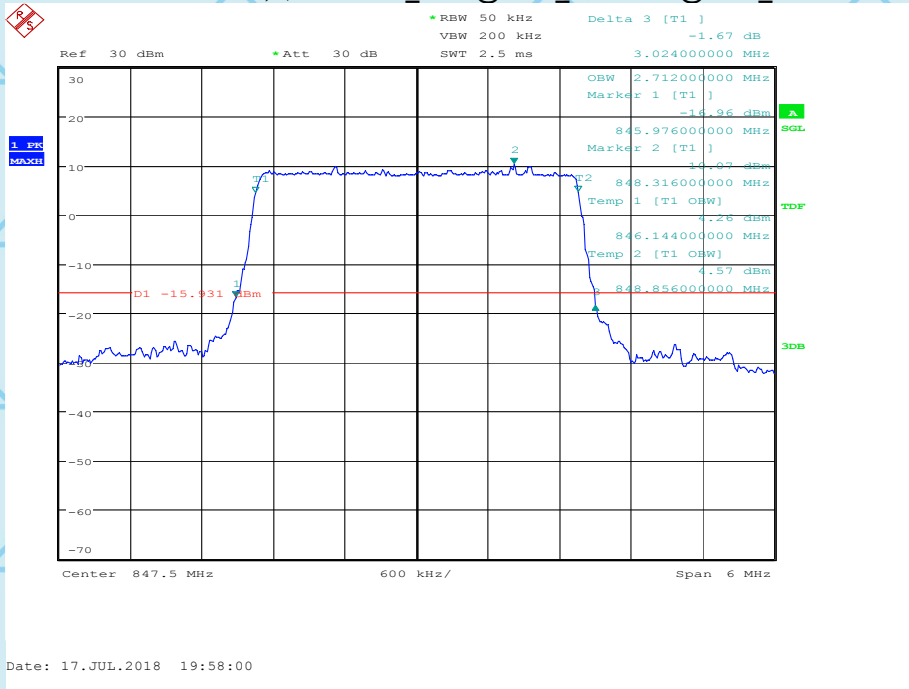
BW3MHz-847.5MHz,Q16-15RB_LOW@OBW_2.7MHz@26dB_2.976MHz



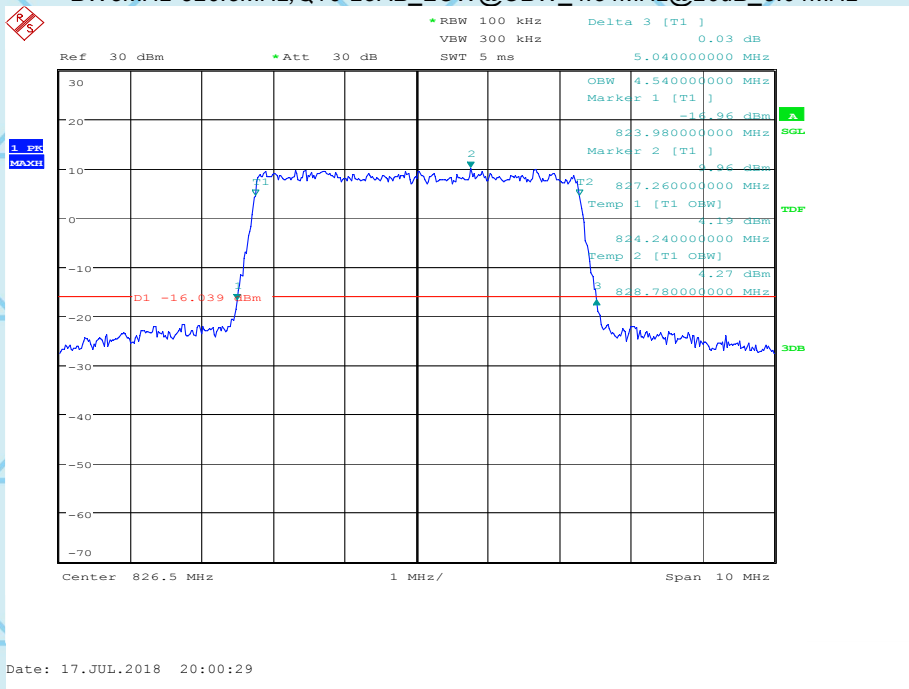


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BW3MHz-847.5MHz,QPSK-15RB_LOW@OBW_2.712MHz@26dB_3.024MHz



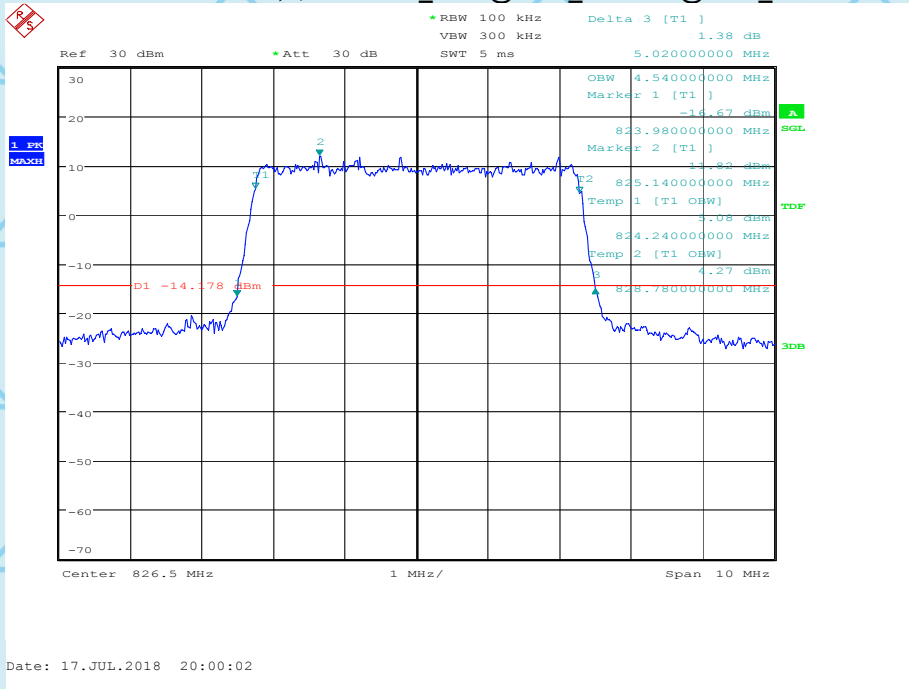
BW5MHz-826.5MHz,Q16-25RB_LOW@OBW_4.54MHz@26dB_5.04MHz



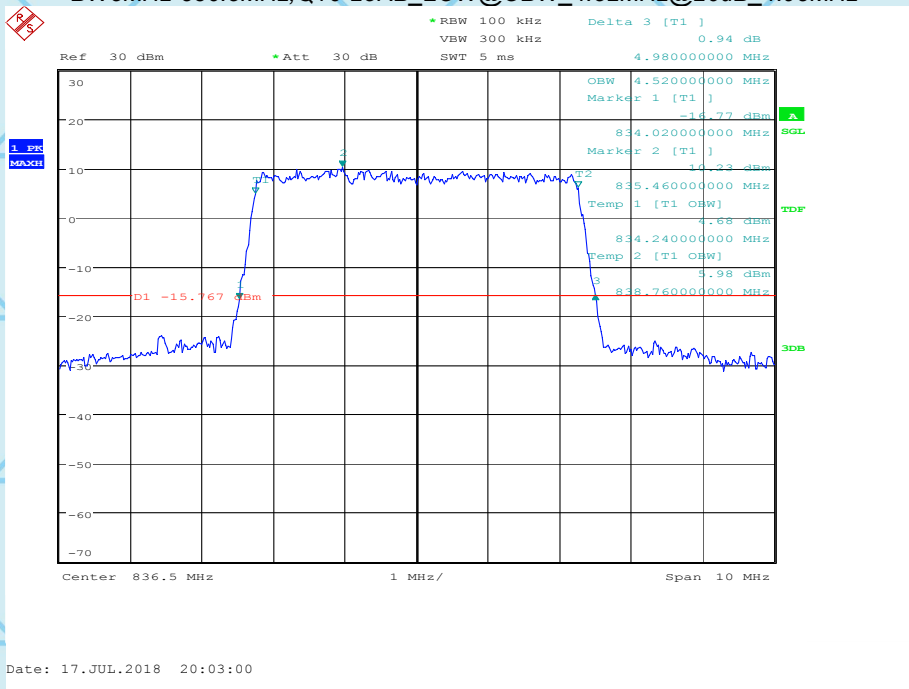


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BW5MHz-826.5MHz,QPSK-25RB_LOW@OBW_4.54MHz@26dB_5.02MHz



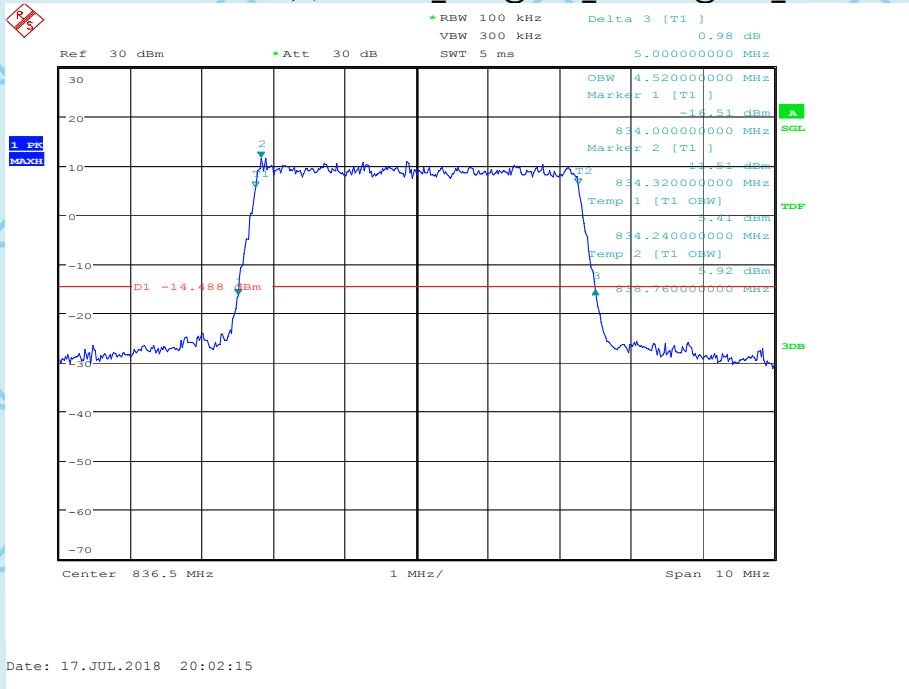
BW5MHz-836.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_4.98MHz



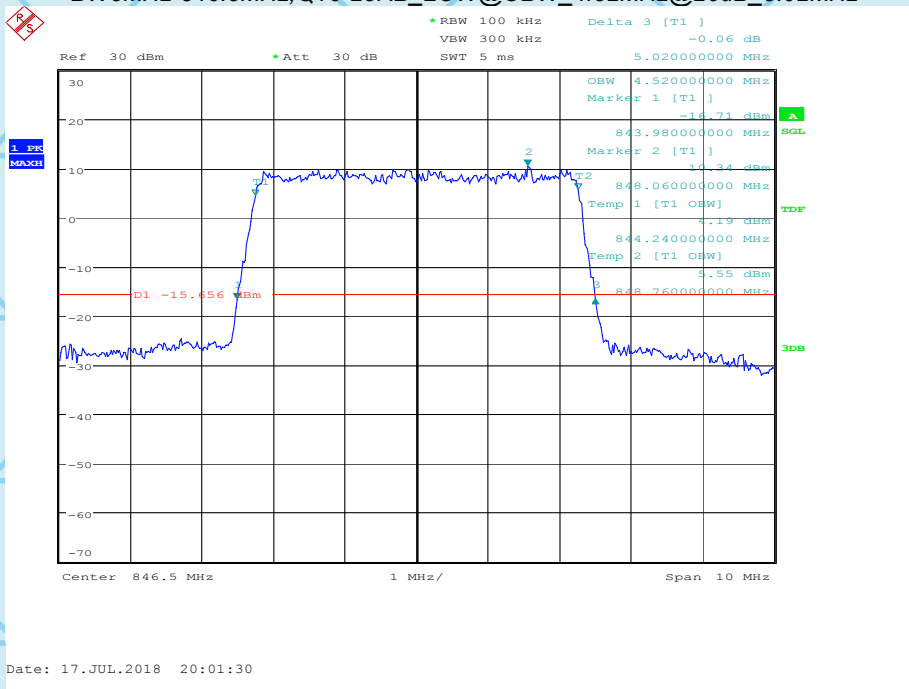


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BW5MHz-836.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.MHz



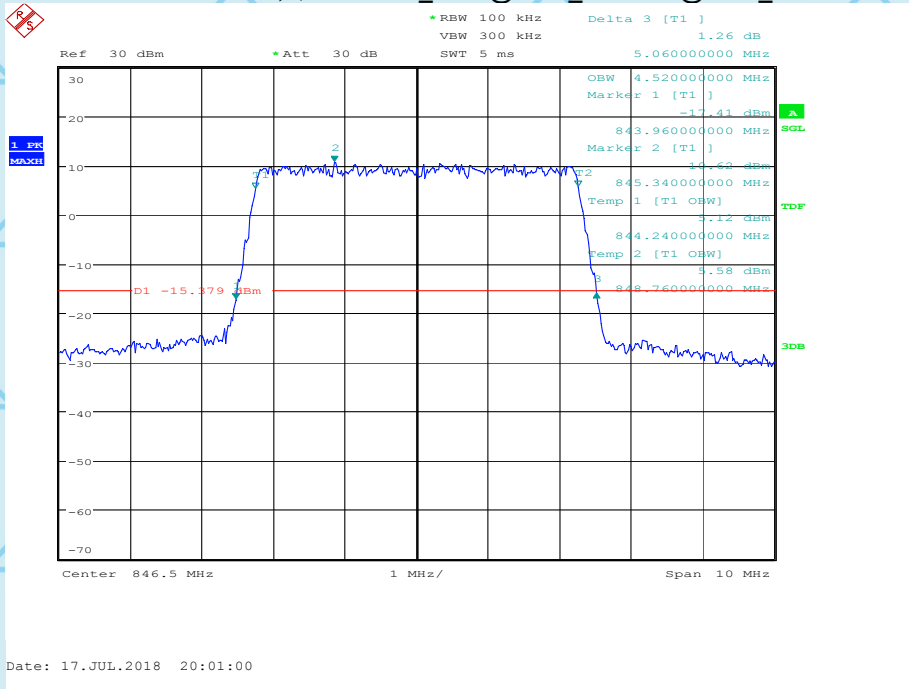
BW5MHz-846.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.02MHz





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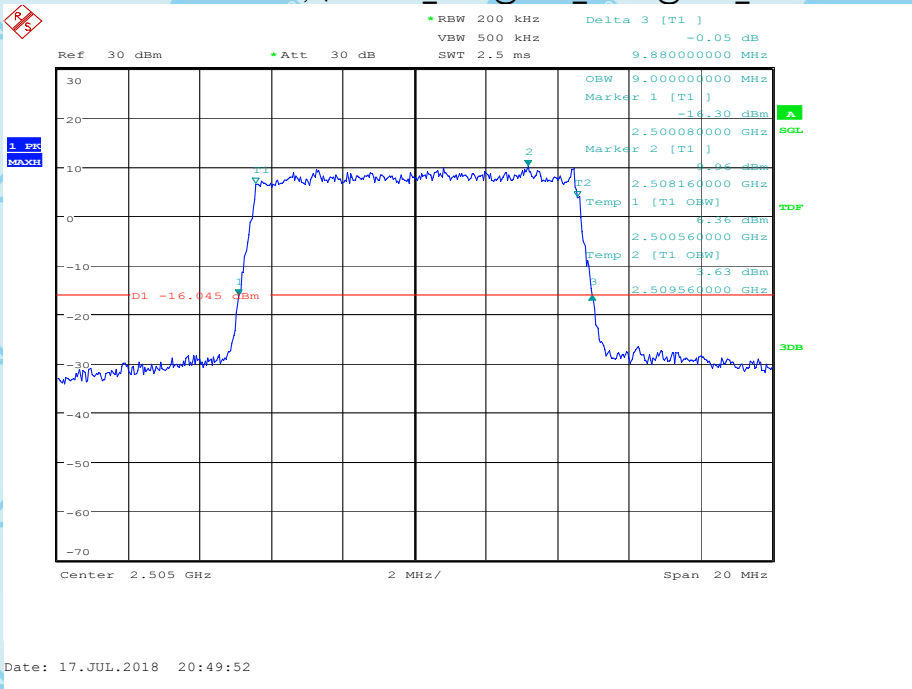
BW5MHz-846.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_5.06MHz



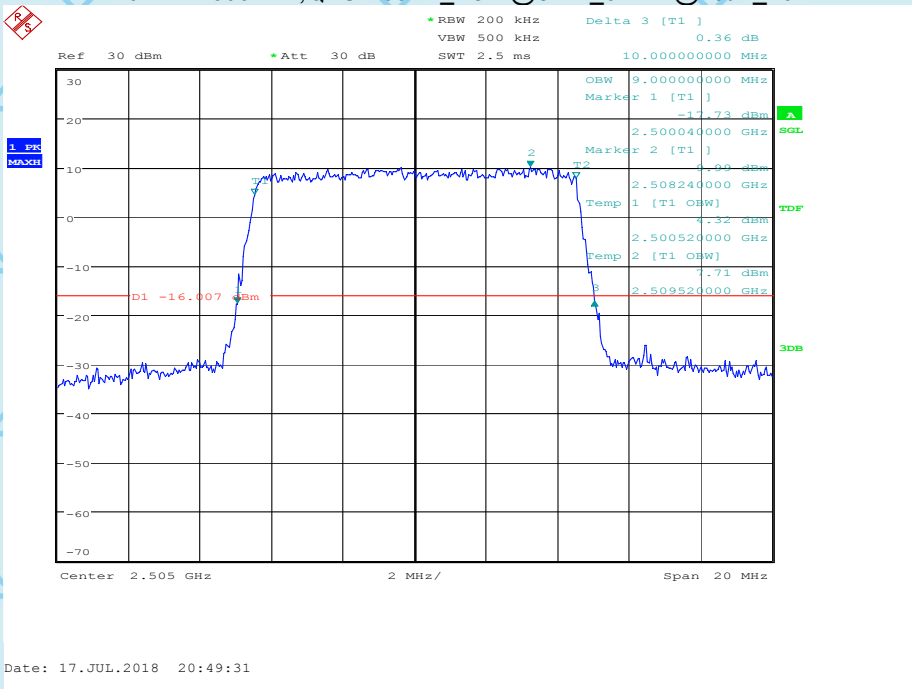


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BAND 7@Bandwidth BW10MHz-2505MHz,Q16-50RB_LOW@OBW_9.MHz@26dB_9.88MHz



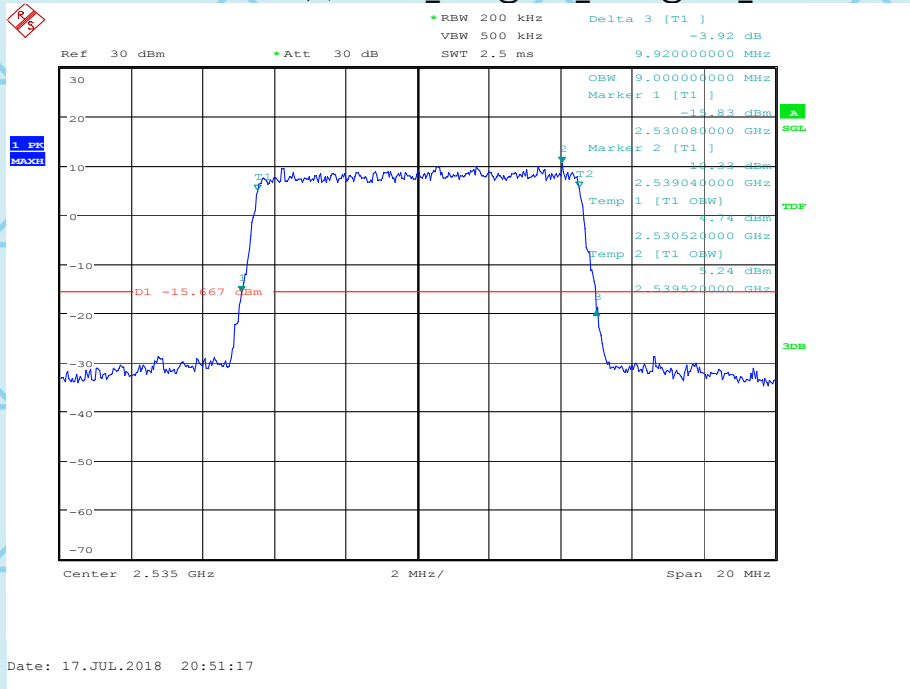
BW10MHz-2505MHz,QPSK-50RB_LOW@OBW_9.MHz@26dB_10.MHz



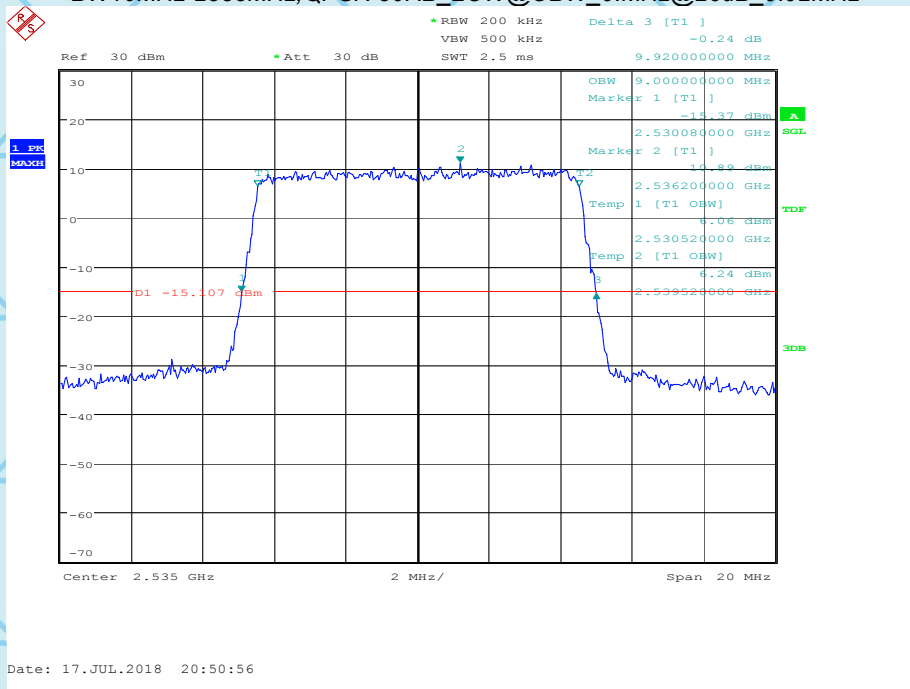


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BW10MHz-2535MHz,Q16-50RB_LOW@OBW_9.MHz@26dB_9.92MHz



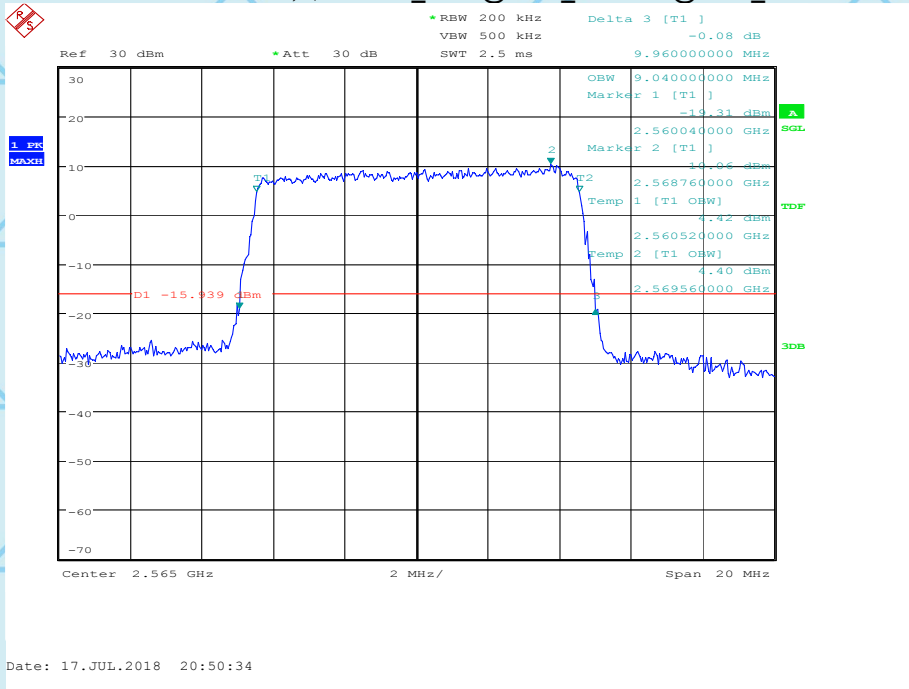
BW10MHz-2535MHz,QPSK-50RB_LOW@OBW_9.MHz@26dB_9.92MHz



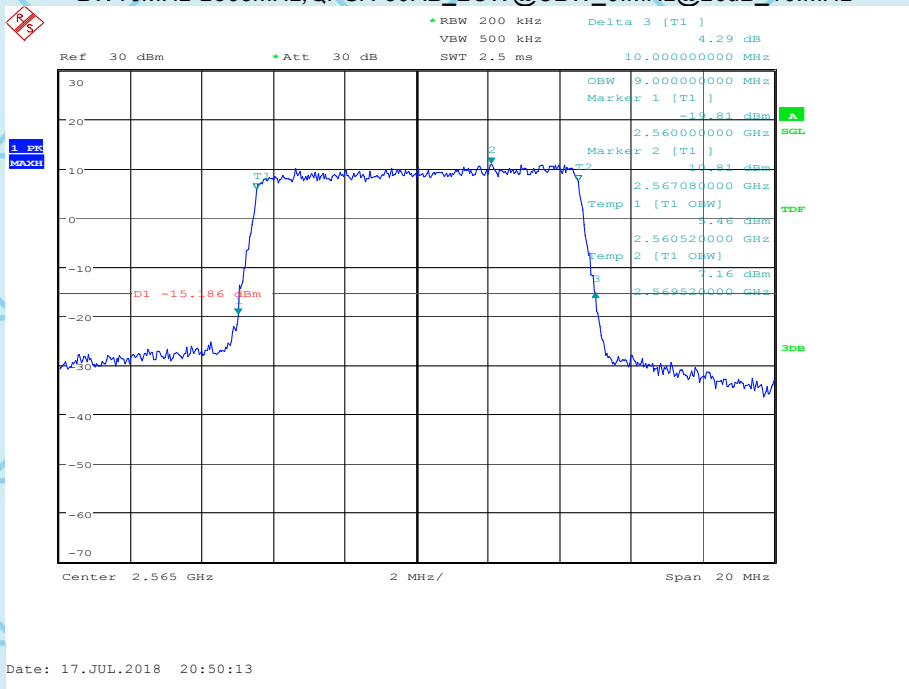


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BW10MHz-2565MHz,Q16-50RB_LOW@OBW_9.04MHz@26dB_9.96MHz



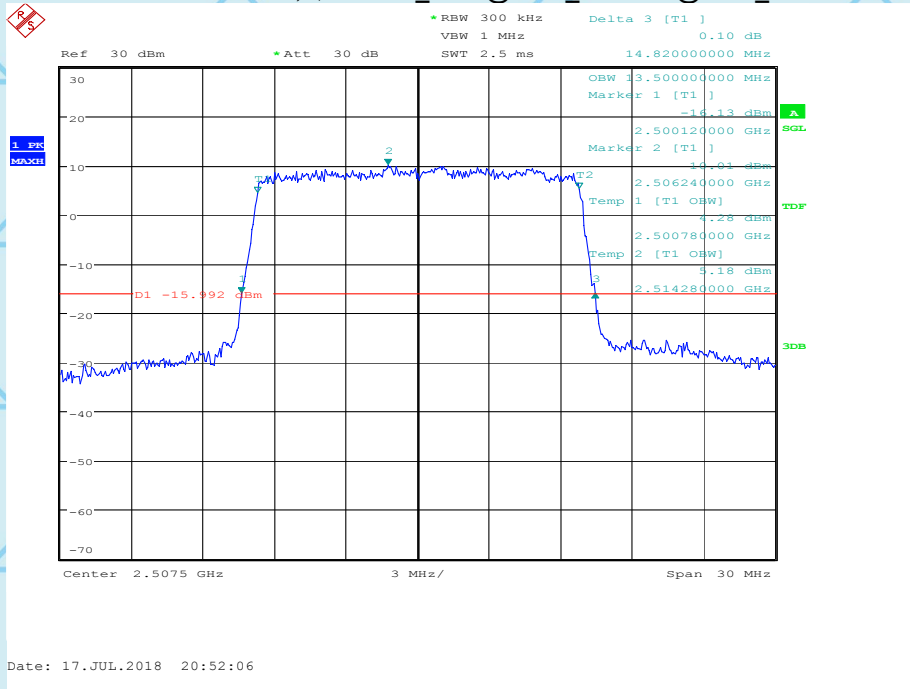
BW10MHz-2565MHz,QPSK-50RB_LOW@OBW_9.MHz@26dB_10.MHz



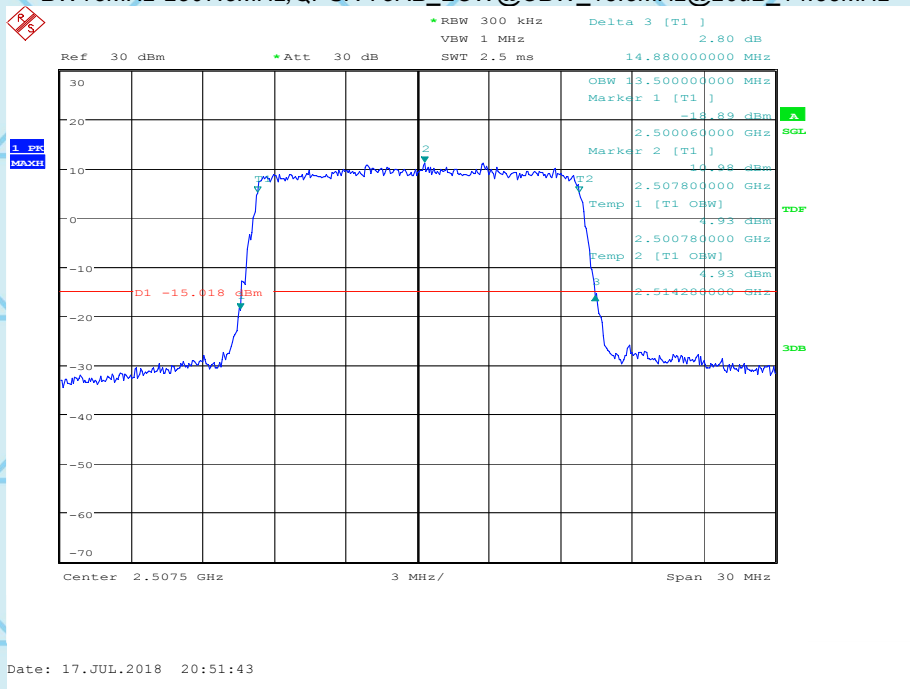


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BW15MHz-2507.5MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_14.82MHz



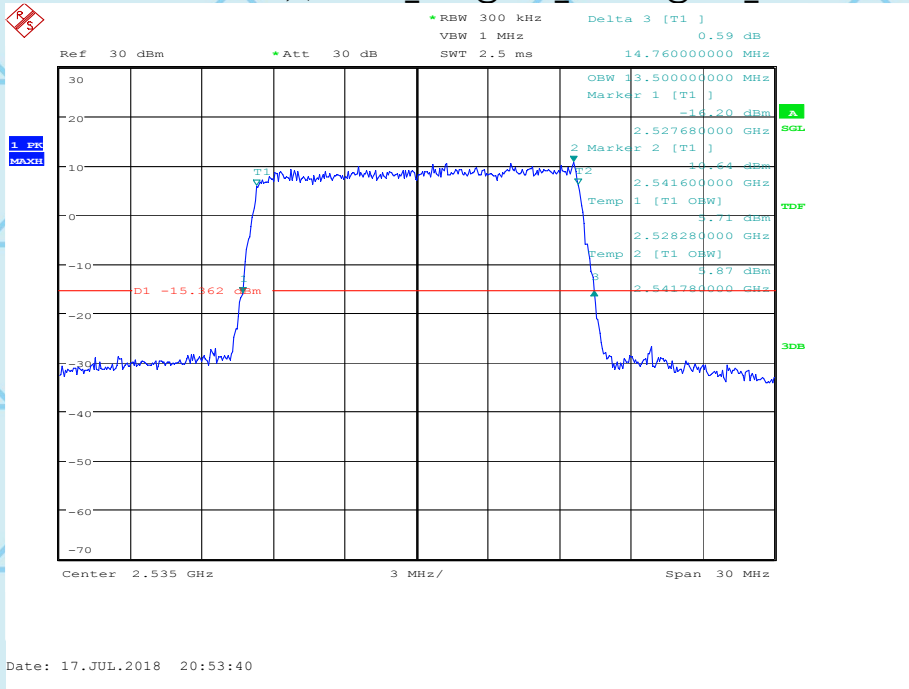
BW15MHz-2507.5MHz,QPSK-75RB_LOW@OBW_13.5MHz@26dB_14.88MHz



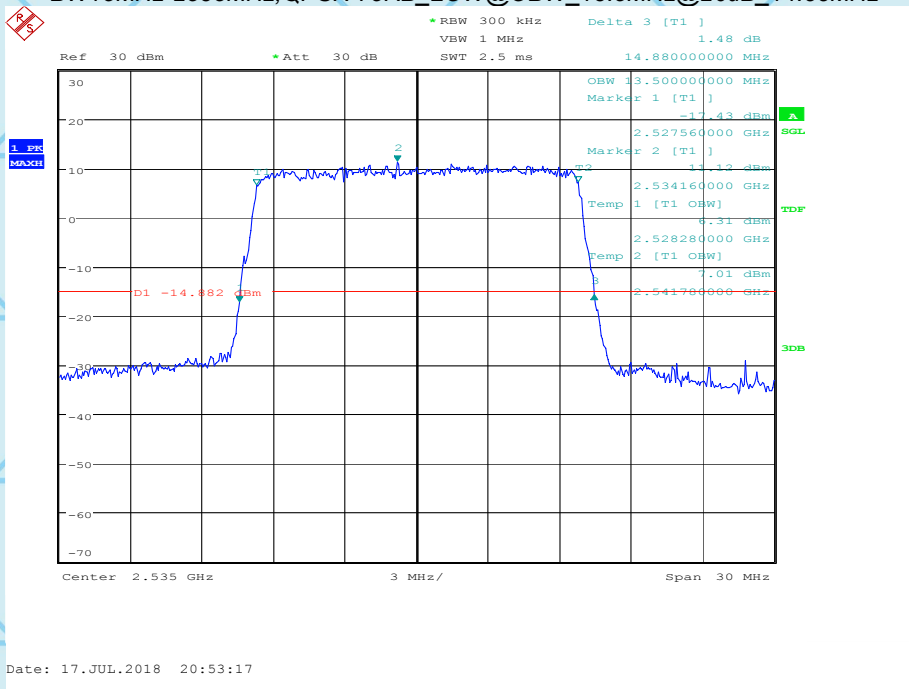


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BW15MHz-2535MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_14.76MHz



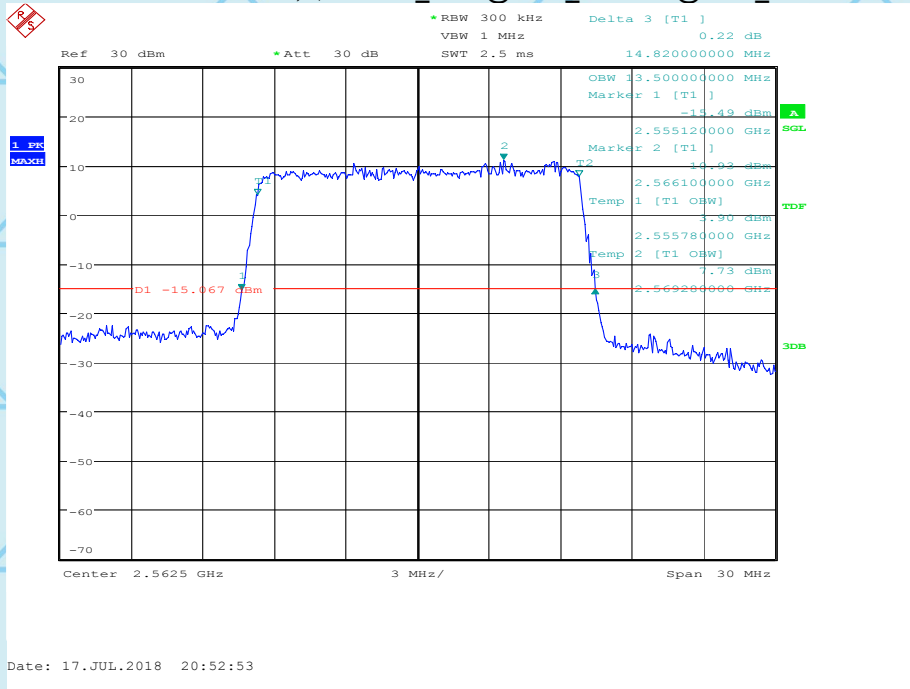
BW15MHz-2535MHz,QPSK-75RB_LOW@OBW_13.5MHz@26dB_14.88MHz



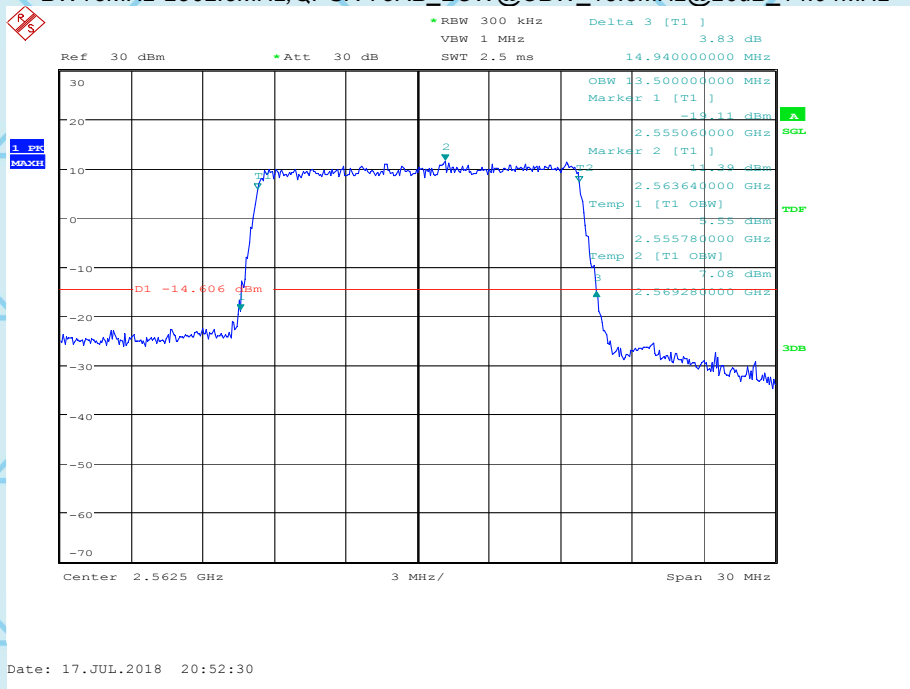


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BW15MHz-2562.5MHz,Q16-75RB_LOW@OBW_13.5MHz@26dB_14.82MHz



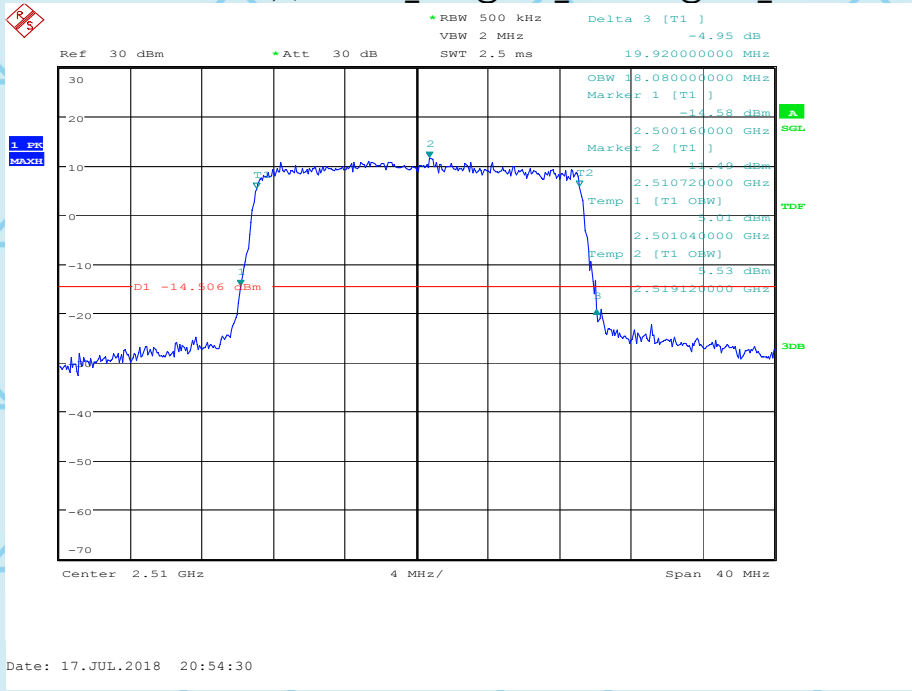
BW15MHz-2562.5MHz,QPSK-75RB_LOW@OBW_13.5MHz@26dB_14.94MHz



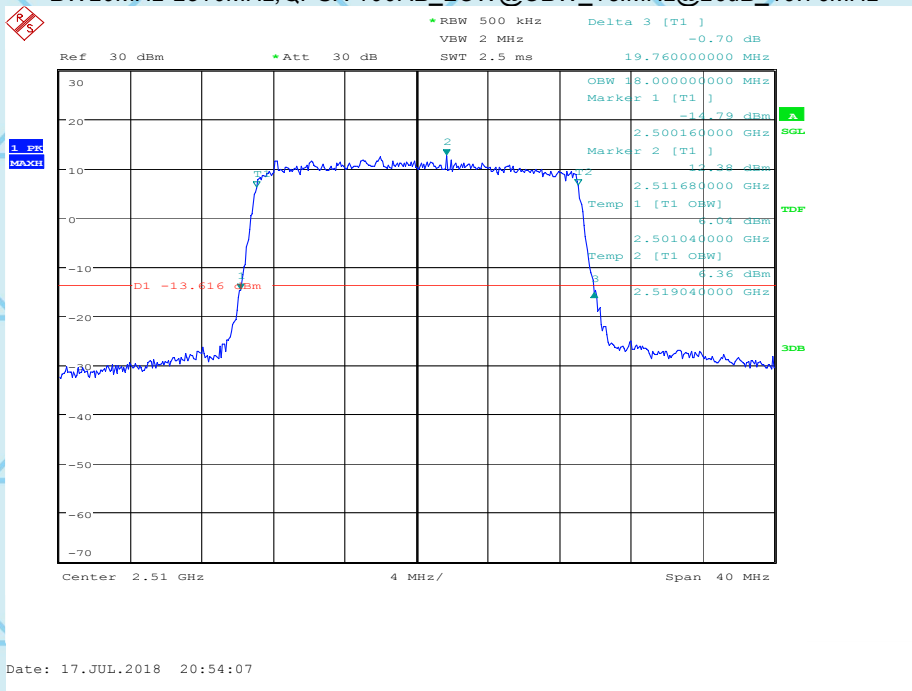


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BW20MHz-2510MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



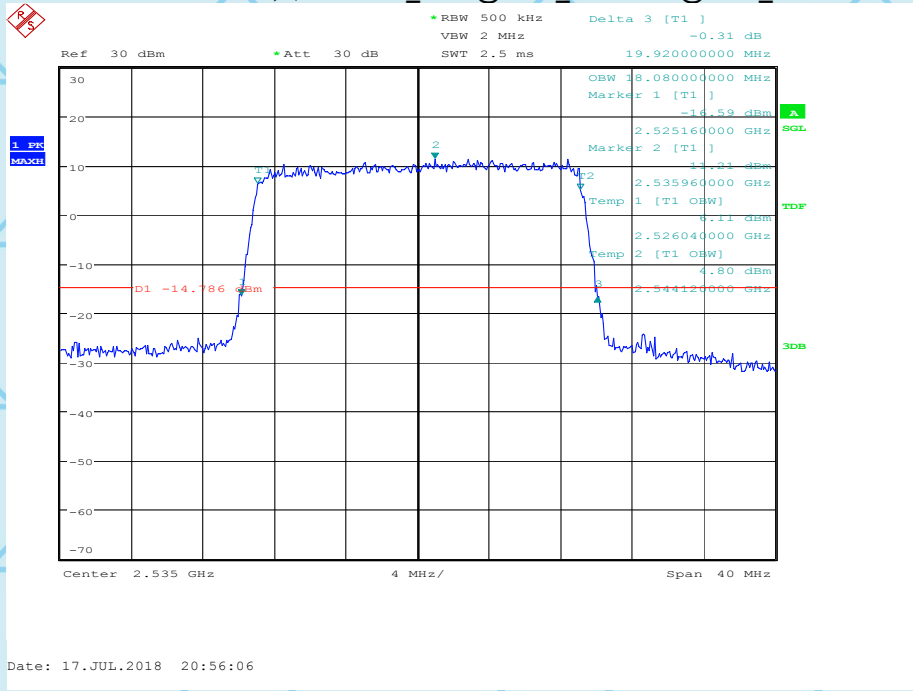
BW20MHz-2510MHz,QPSK-100RB_LOW@OBW_18.MHz@26dB_19.76MHz



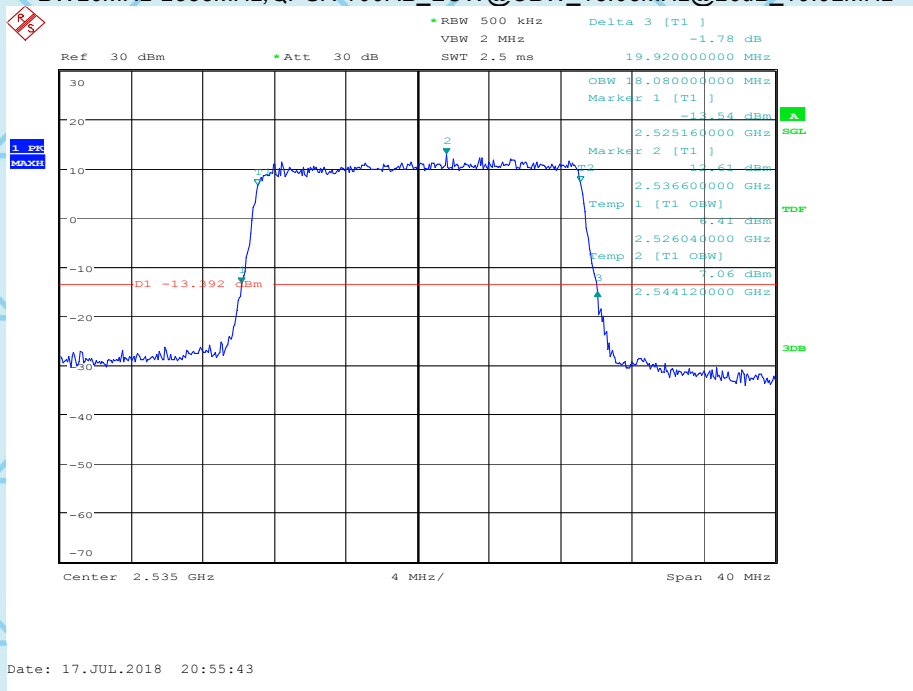


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BW20MHz-2535MHz,Q16-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



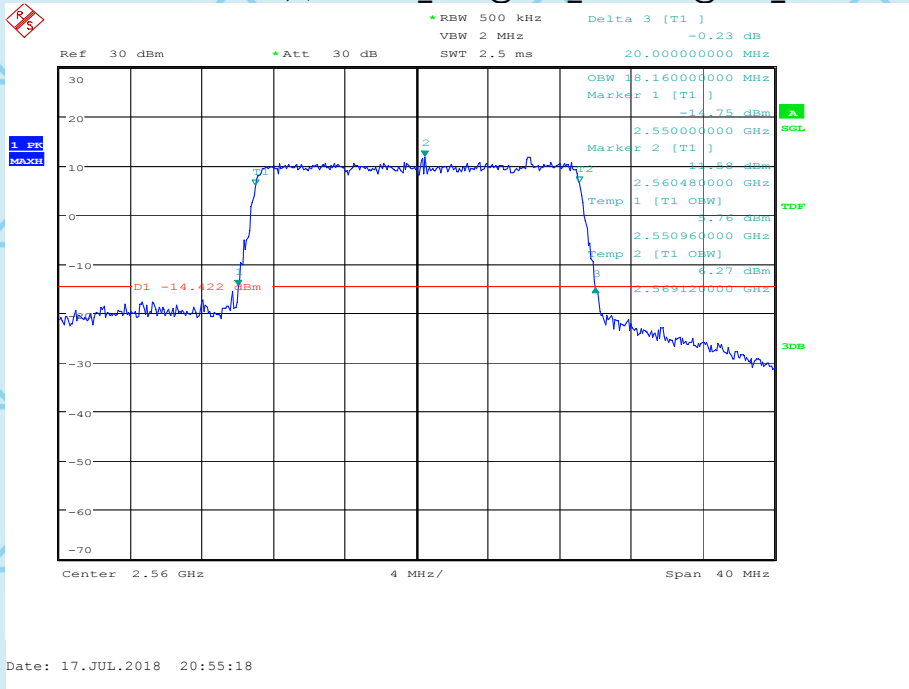
BW20MHz-2535MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_19.92MHz



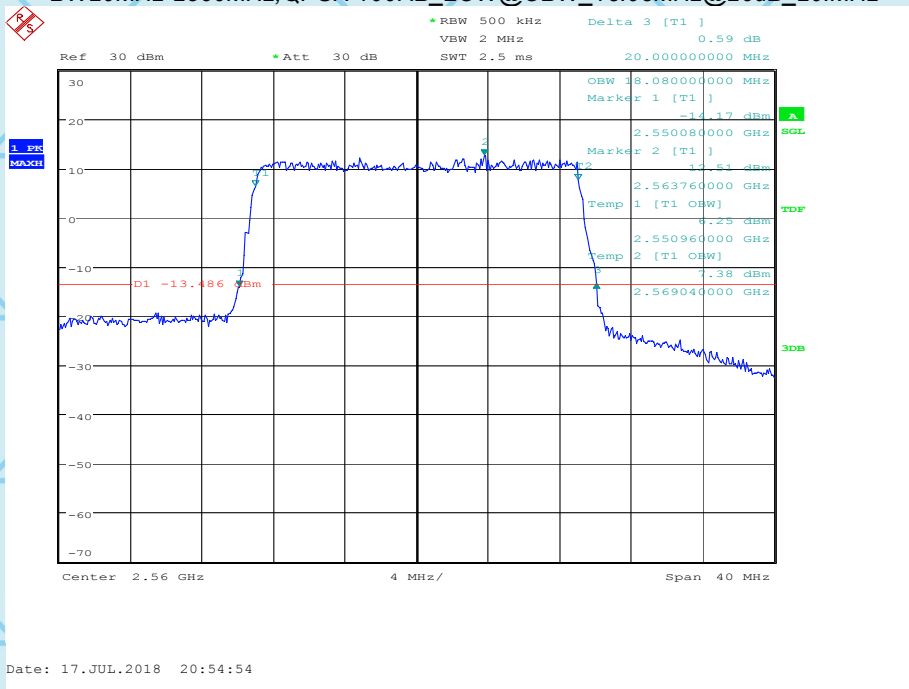


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BW20MHz-2560MHz,Q16-100RB_LOW@OBW_18.16MHz@26dB_20.MHz



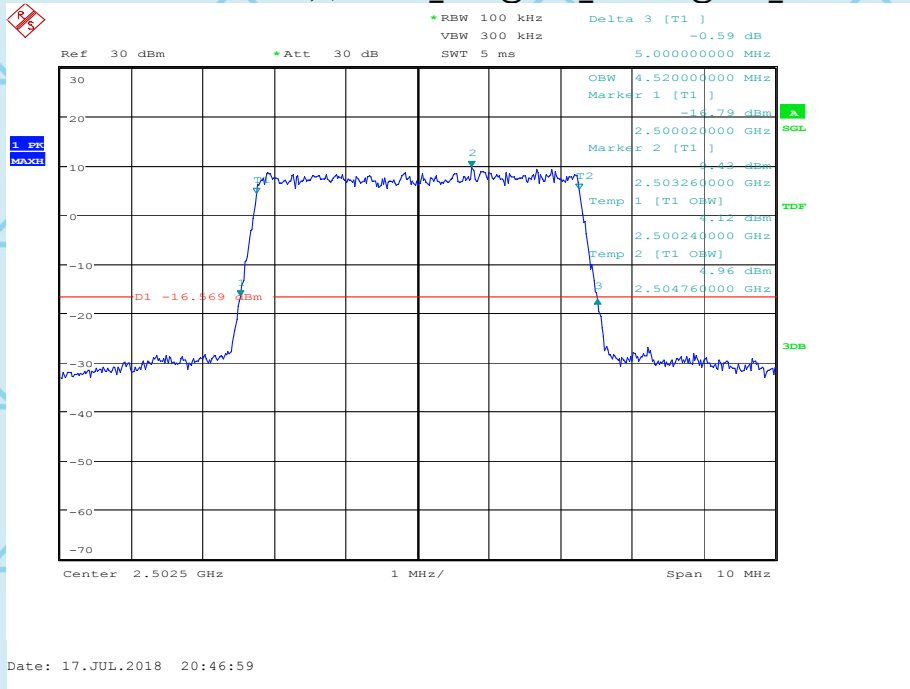
BW20MHz-2560MHz,QPSK-100RB_LOW@OBW_18.08MHz@26dB_20.MHz



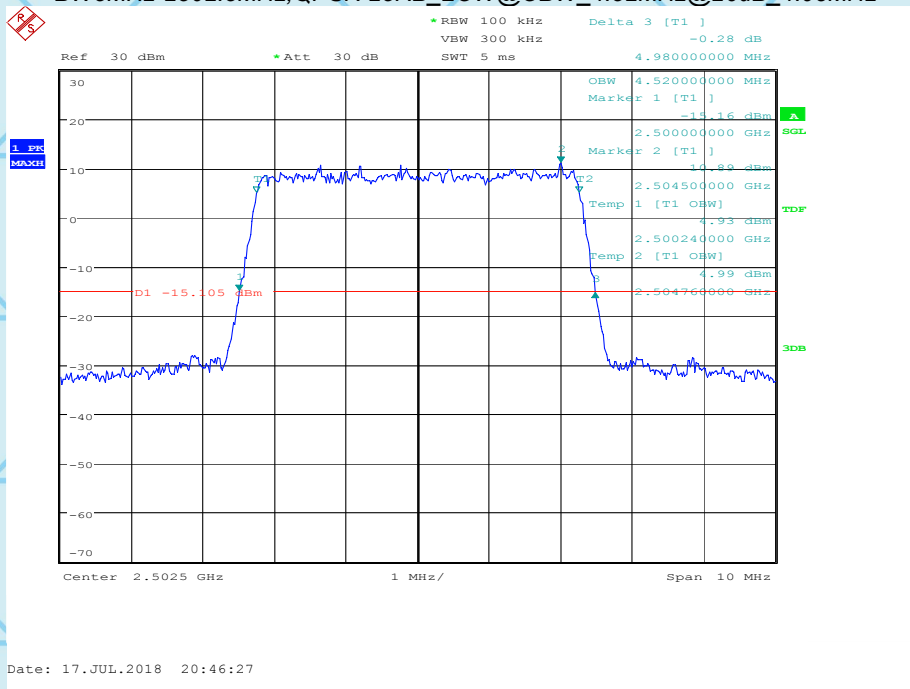


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BW5MHz-2502.5MHz,Q16-25RB_LOW@OBW_4.52MHz@26dB_5.MHz



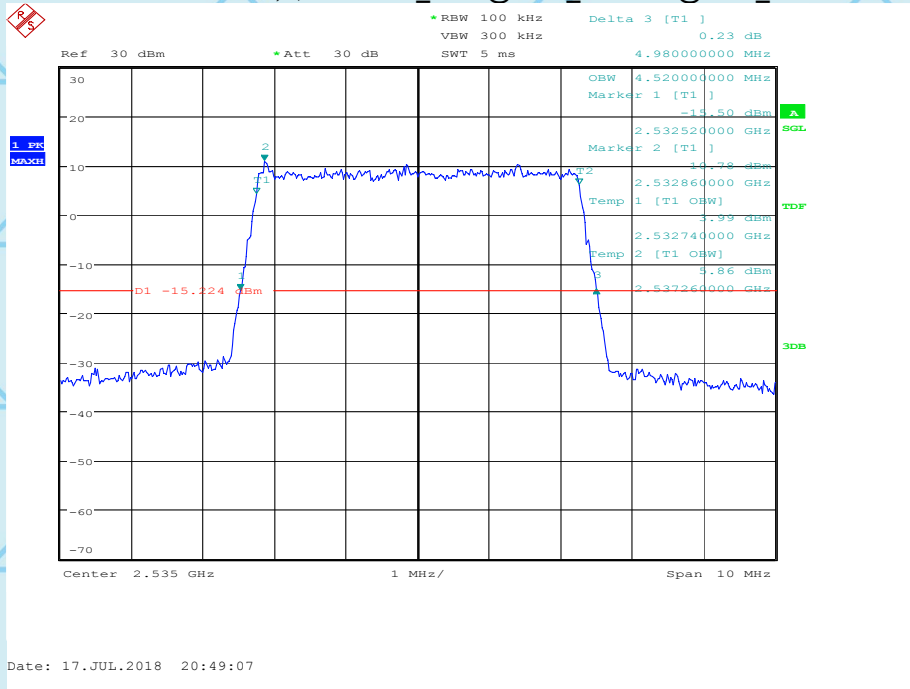
BW5MHz-2502.5MHz,QPSK-25RB_LOW@OBW_4.52MHz@26dB_4.98MHz



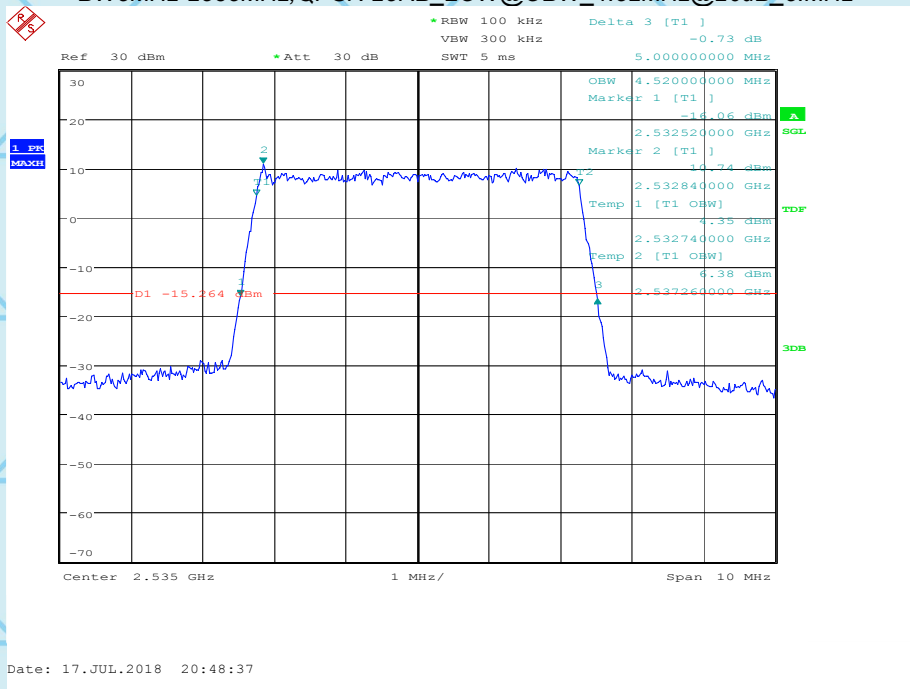


For Question, Please Contact with WSCT www.wsct-cert.com

BW5MHz-2535MHz, QPSK-25RB_LOW@OBW_ 4.52MHz@26dB_4.98MHz



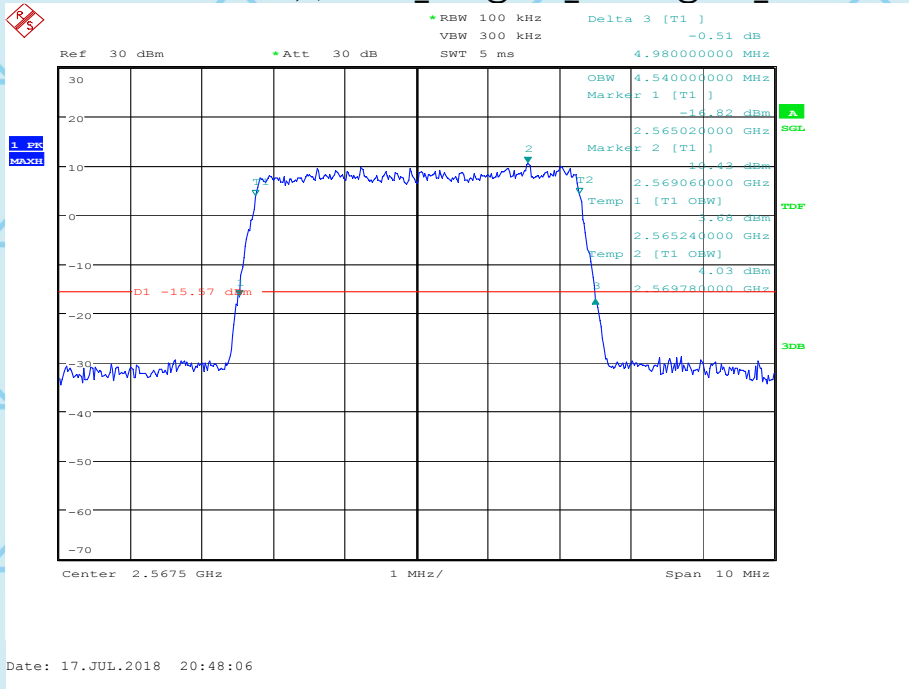
BW5MHz-2535MHz, QPSK-25RB_LOW@OBW_ 4.52MHz@26dB_5.MHz



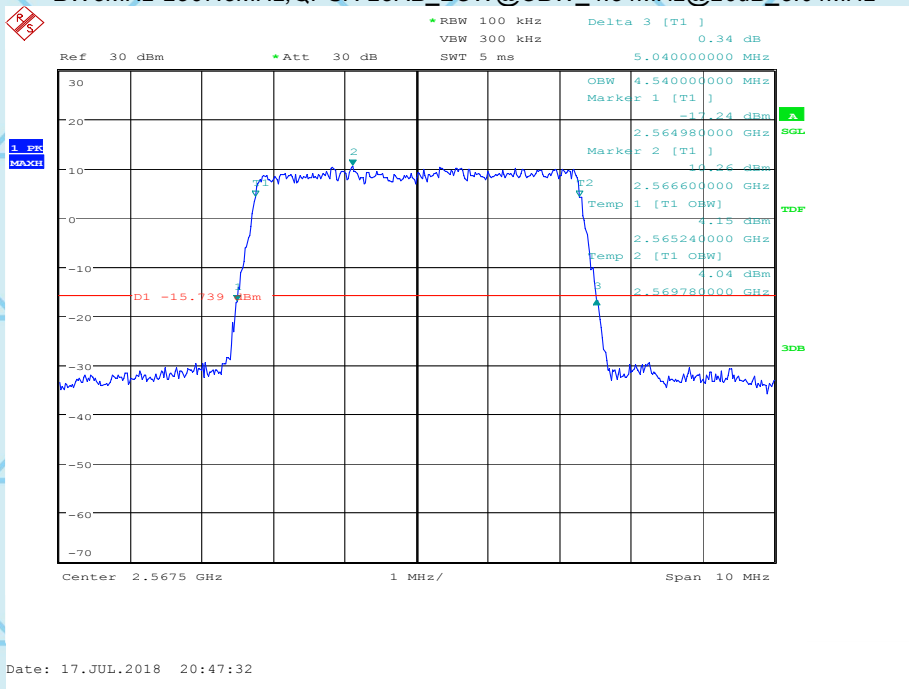


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BW5MHz-2567.5MHz,Q16-25RB_LOW@OBW_4.54MHz@26dB_4.98MHz



BW5MHz-2567.5MHz,QPSK-25RB_LOW@OBW_4.54MHz@26dB_5.04MHz





9. BAND EDGE

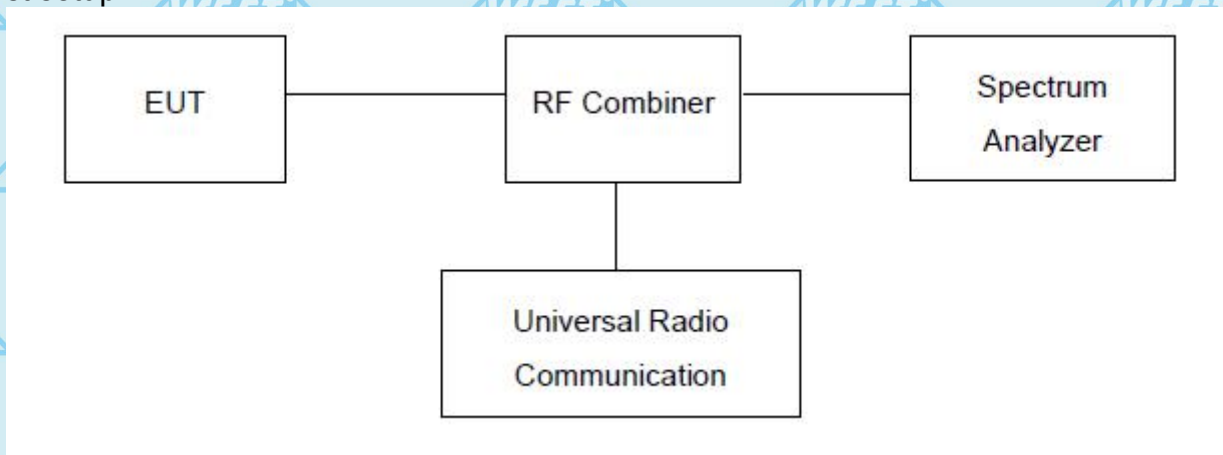
Test Limit:

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly load ed with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is op erated under the conditions specified in §2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified. See section 4.

Test procedure:

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Test setup:

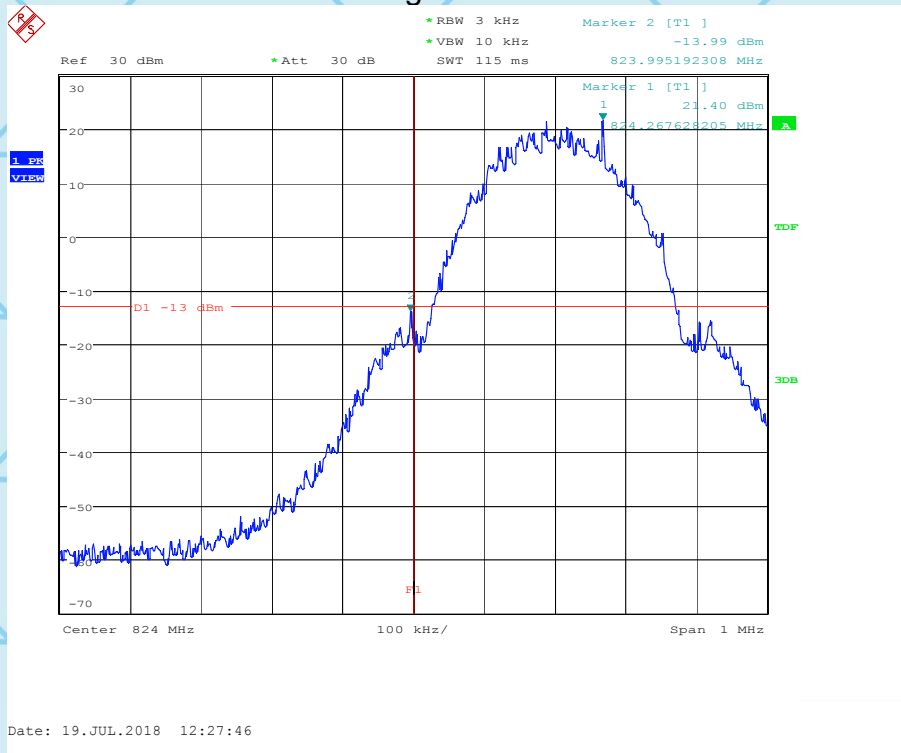




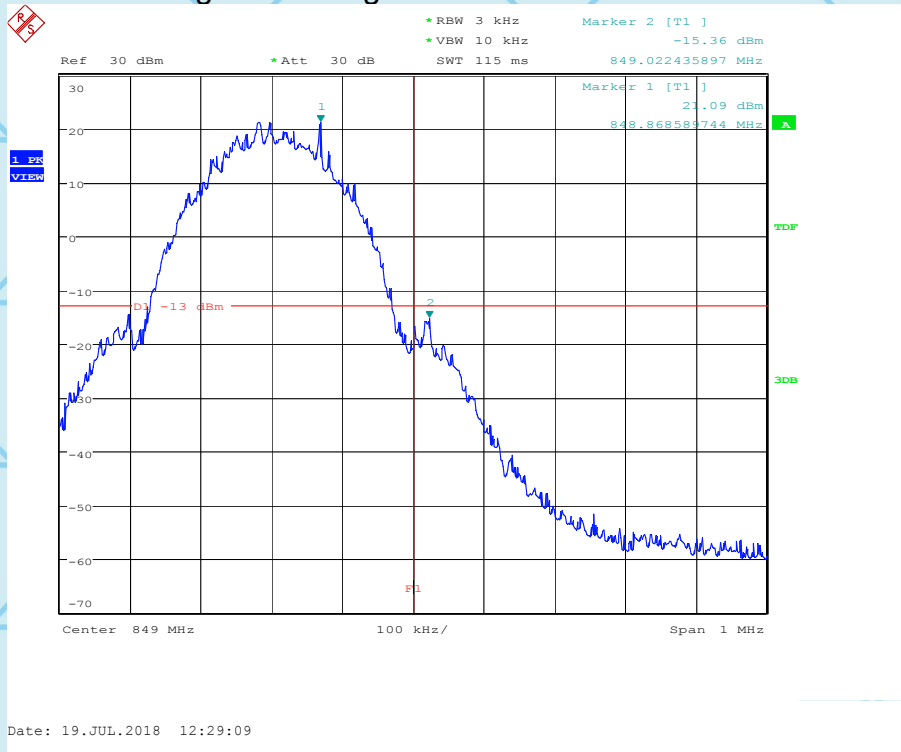
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Measurement Result Test Plot(s)

Low Band Edge GSM 850 BAND CH 128



High Band Edge GSM 850 BAND CH 251



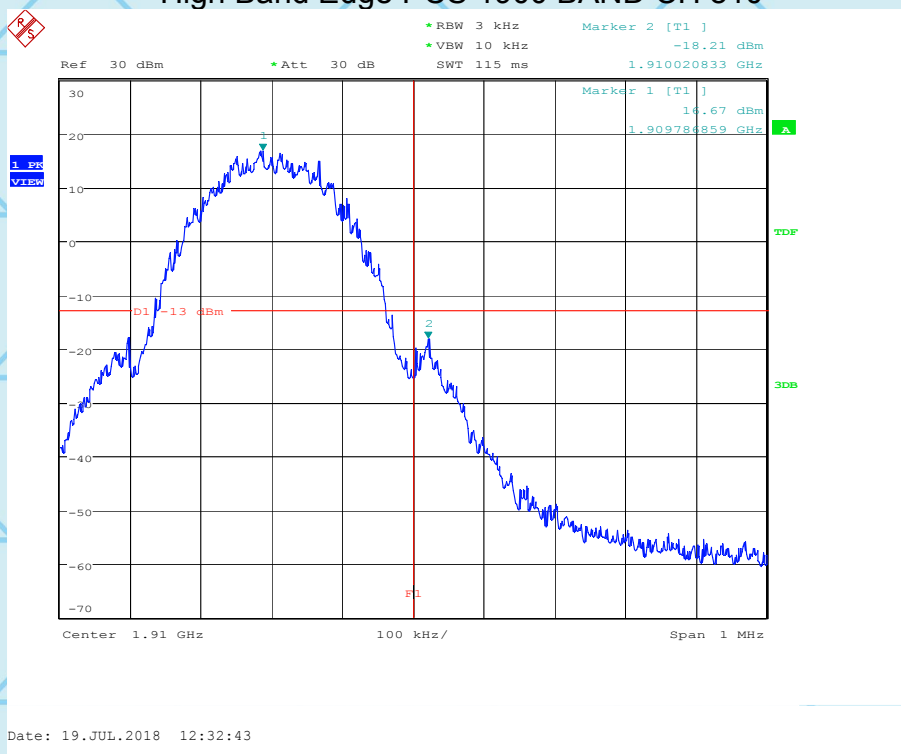


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Low Band Edge PCS 1900 BAND CH 512



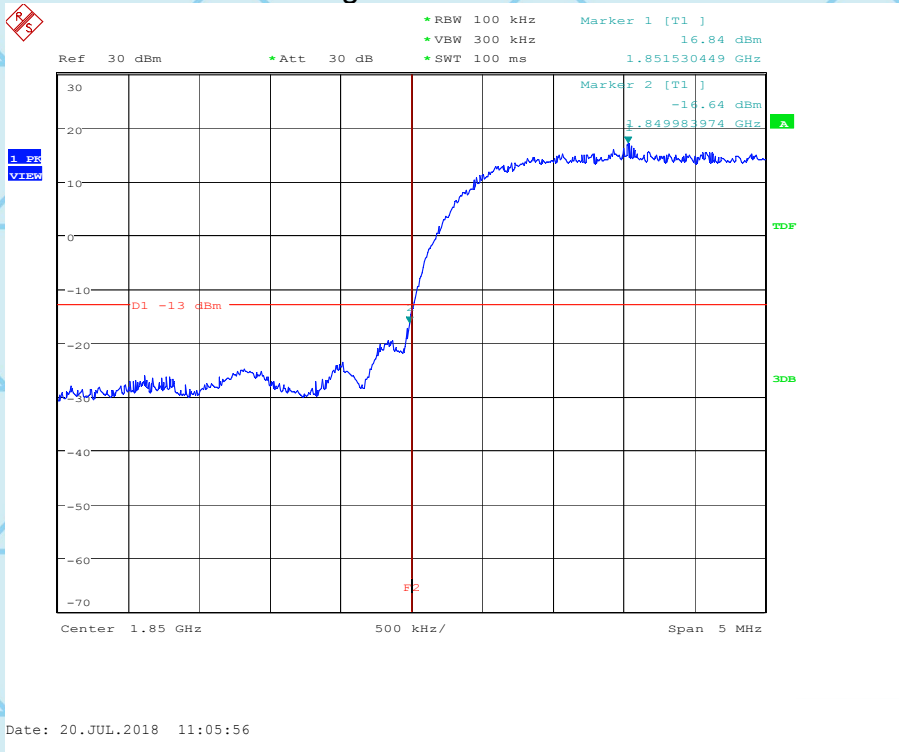
High Band Edge PCS 1900 BAND CH 810



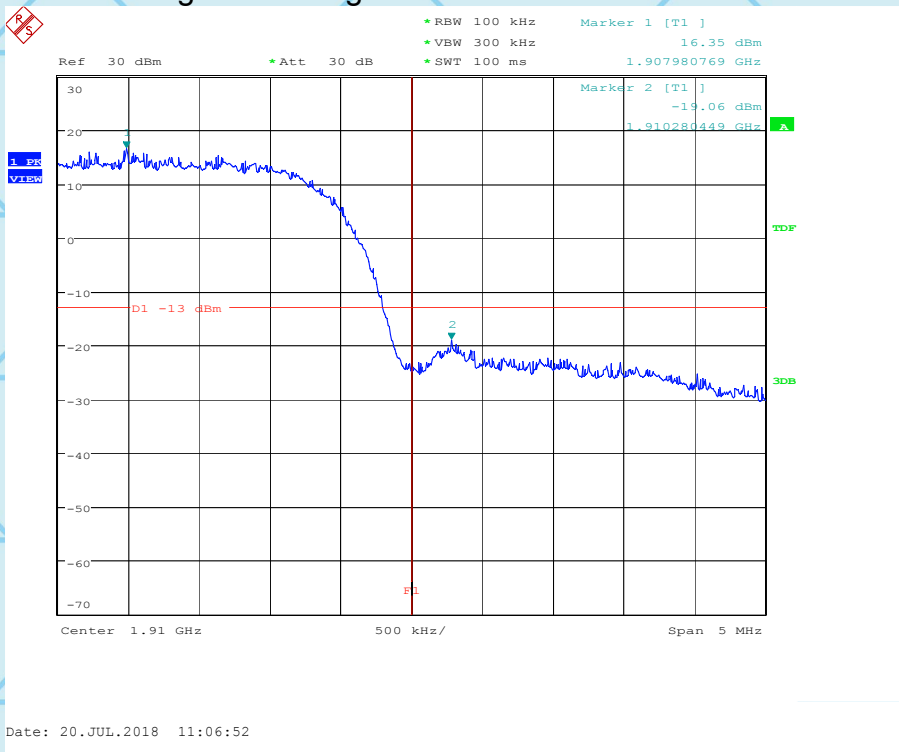


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Low Band Edge WCDMA BAND II CH 9263



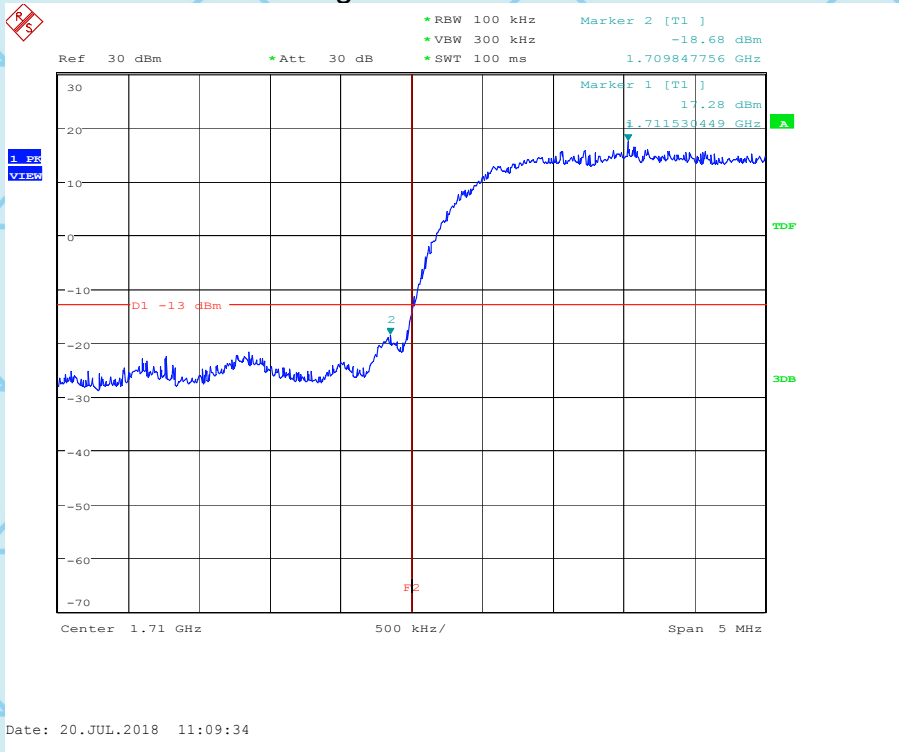
High Band Edge WCDMA BAND II CH 9537



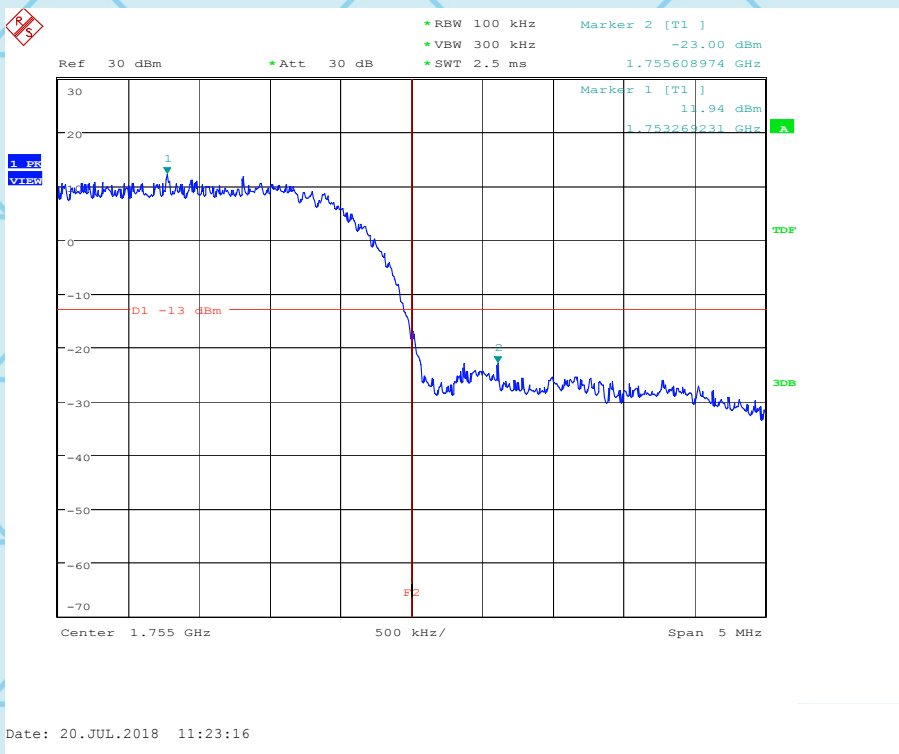


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Low Band Edge WCDMA BAND IV CH 1312



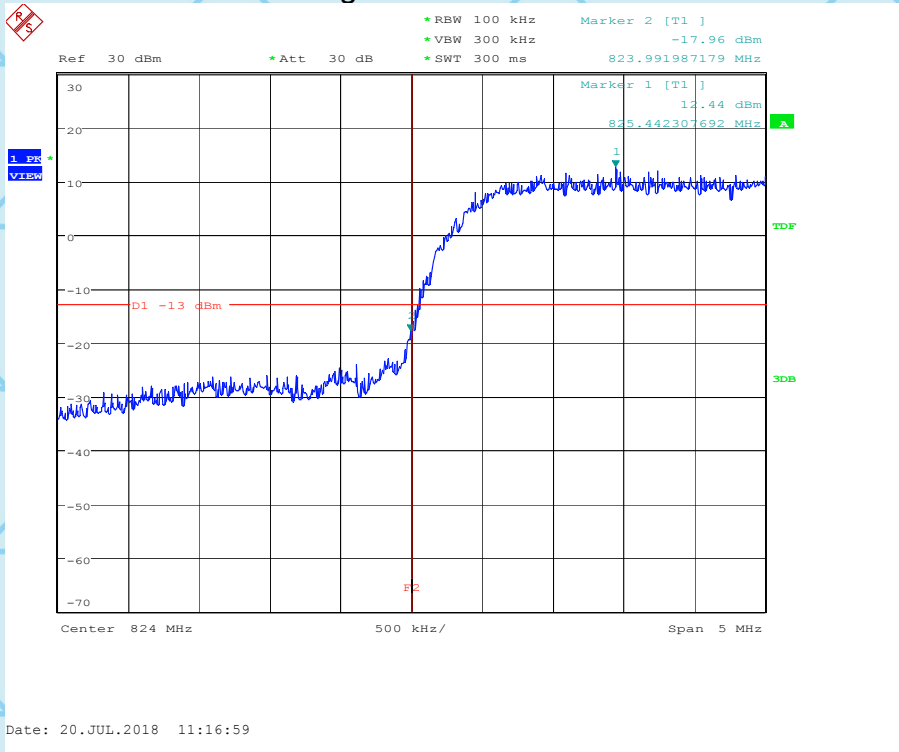
Low Band Edge WCDMA BAND IV CH 1513



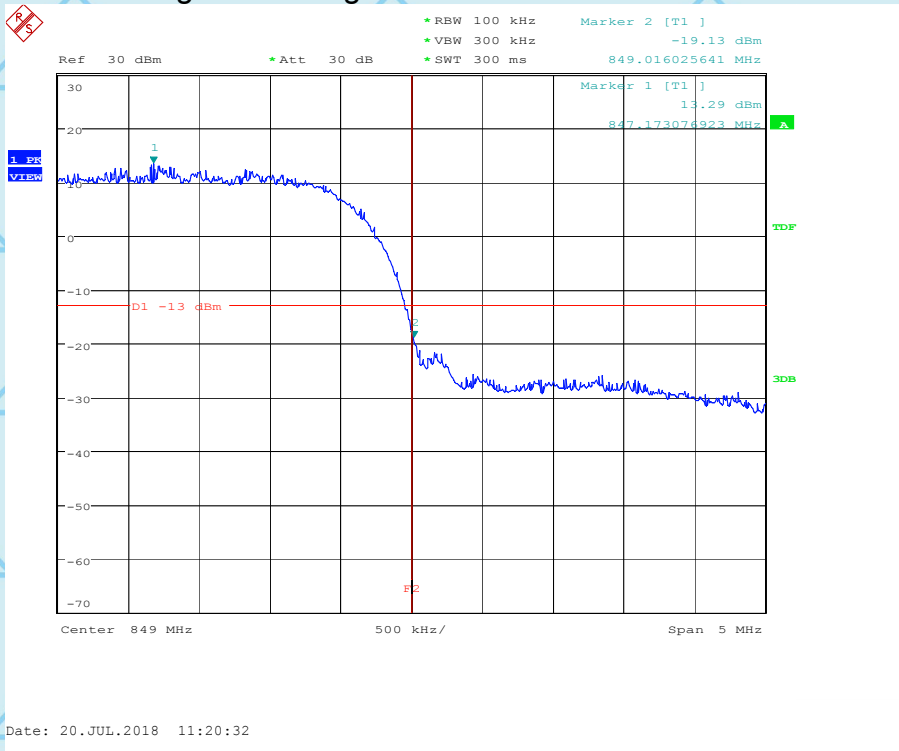


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Low Band Edge WCDMA BAND V CH 4132



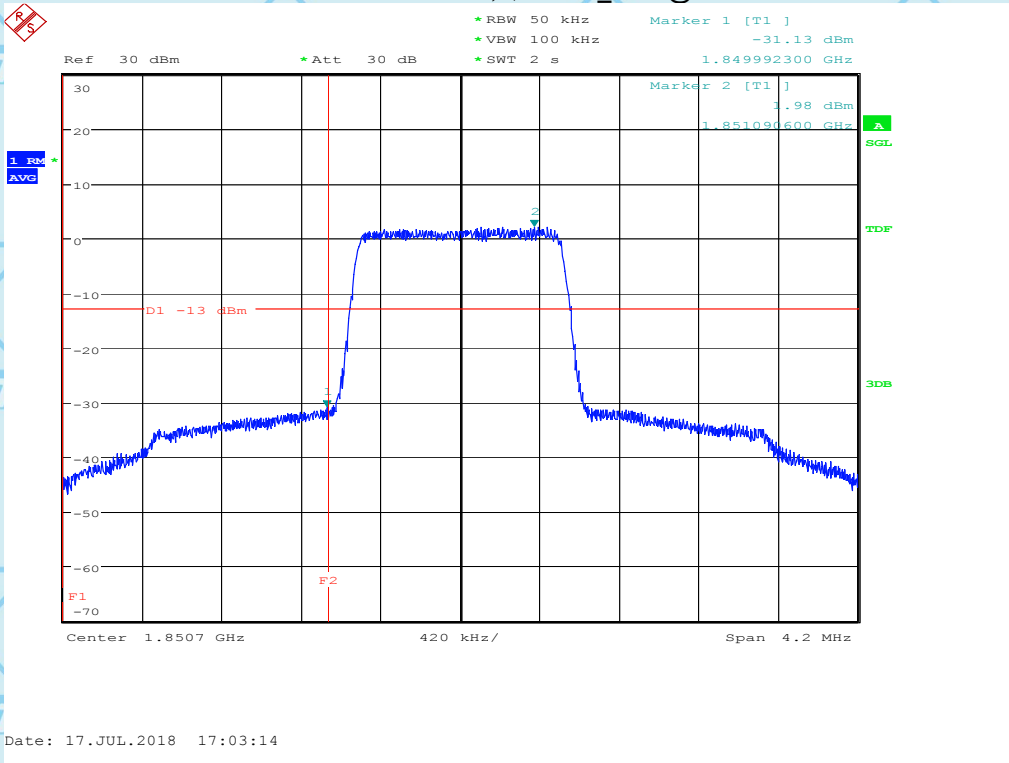
High Band Edge WCDMA BAND V CH 4233





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BAND2-1850.7MHz,Q16-6RB_LOW@Pass



BAND2-1850.7MHz,QPSK-1RB_HIGH@Pass

