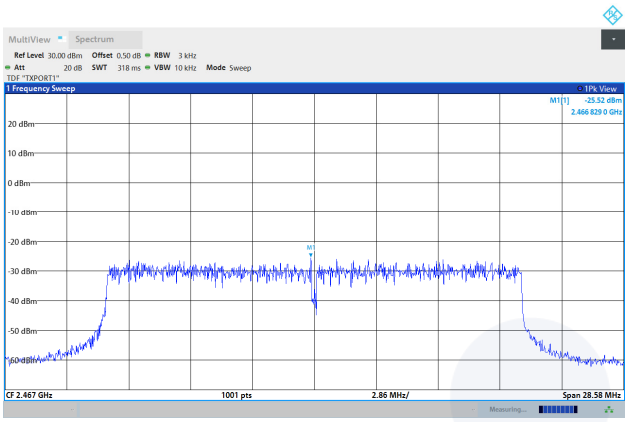
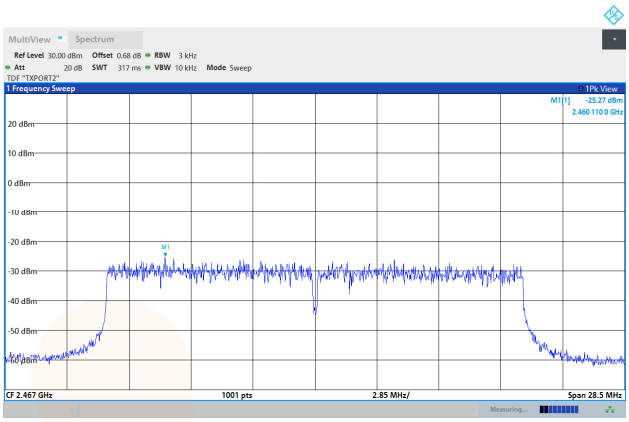
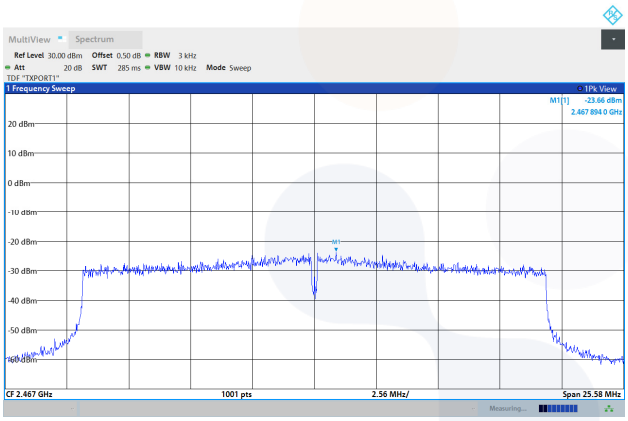
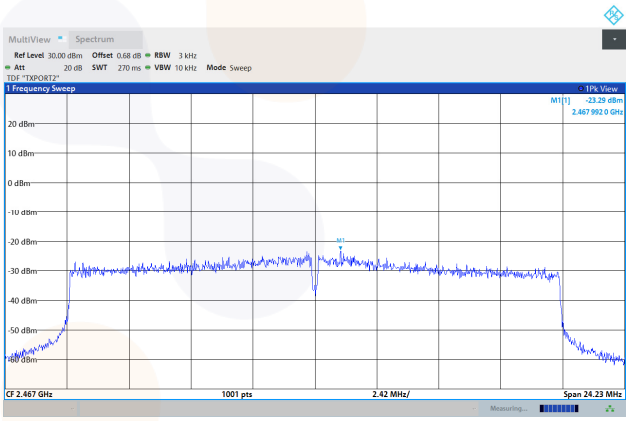
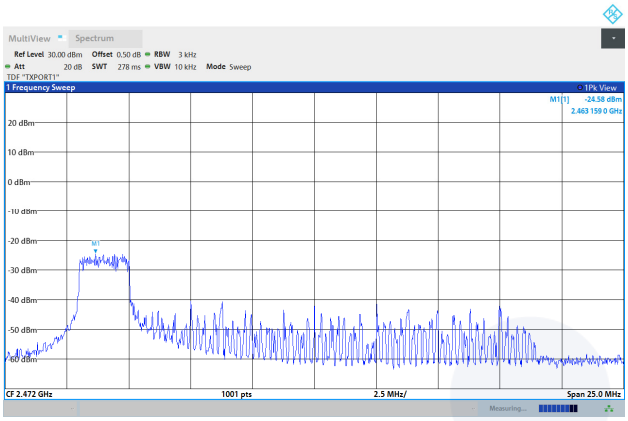
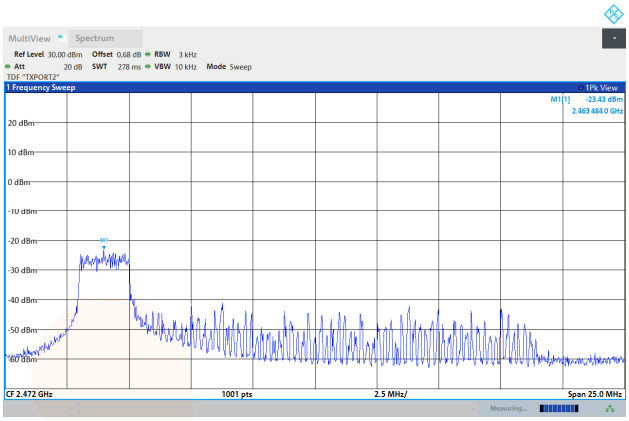
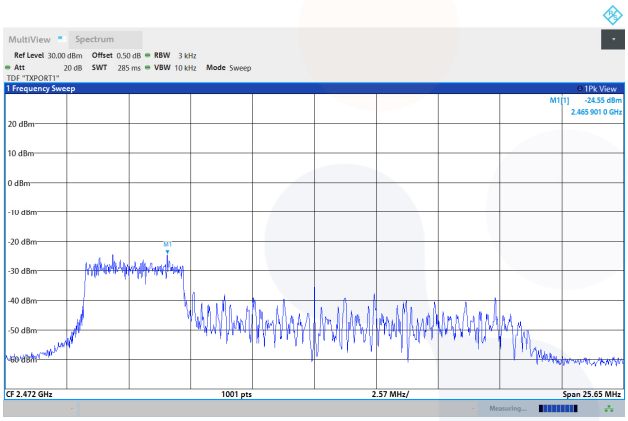
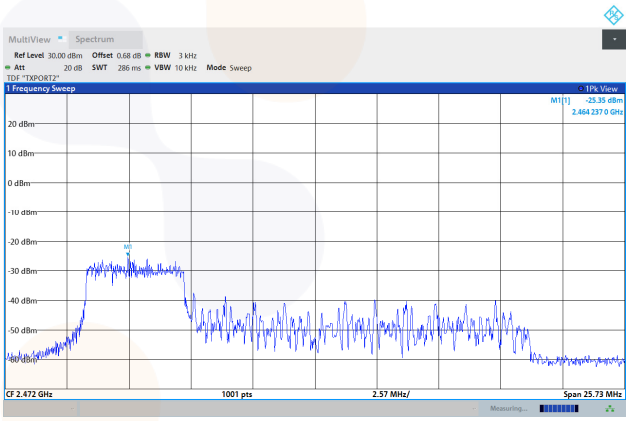
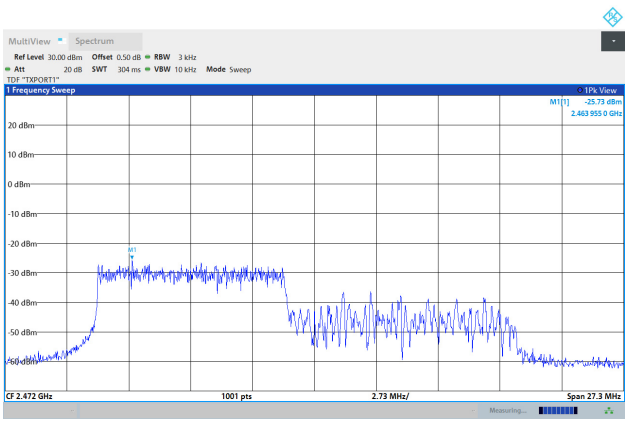
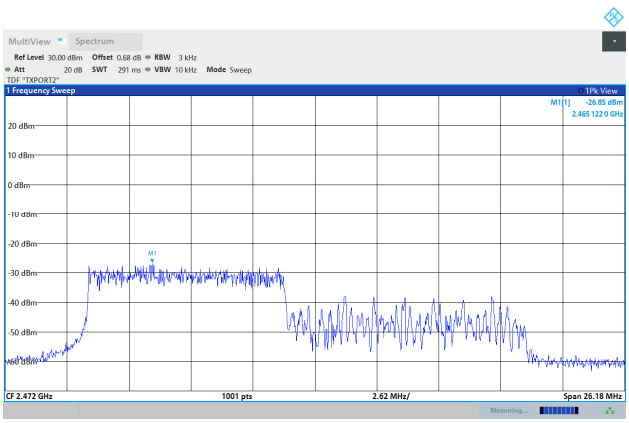
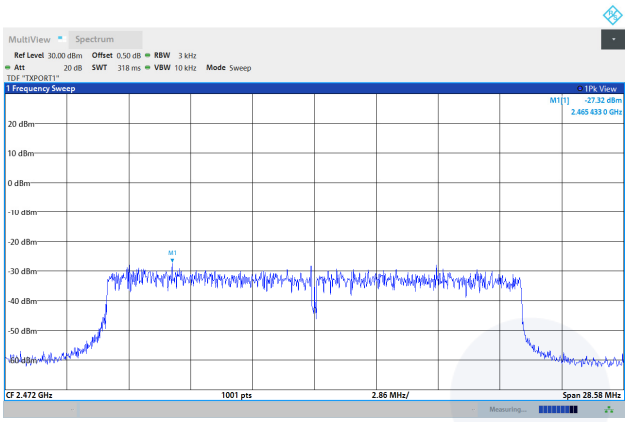
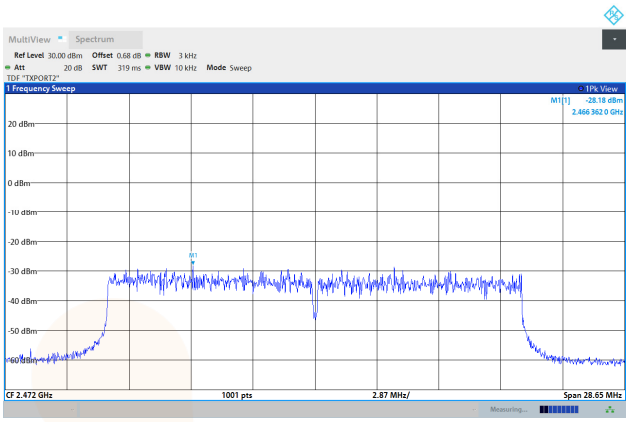
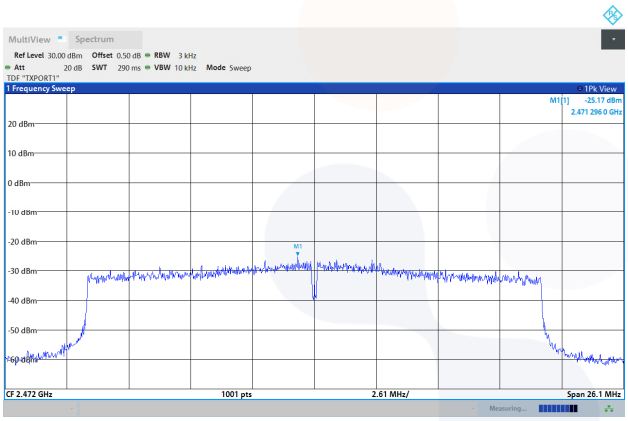
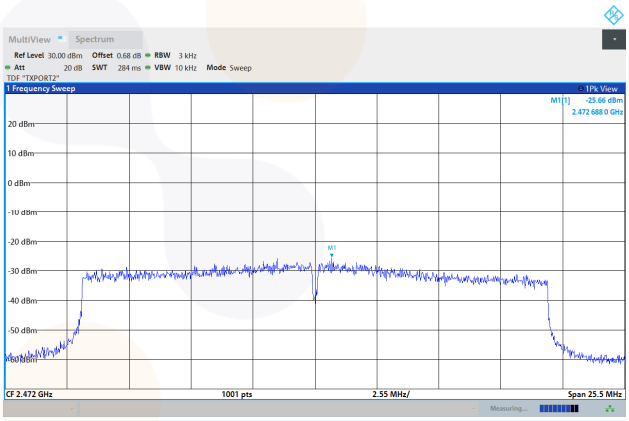
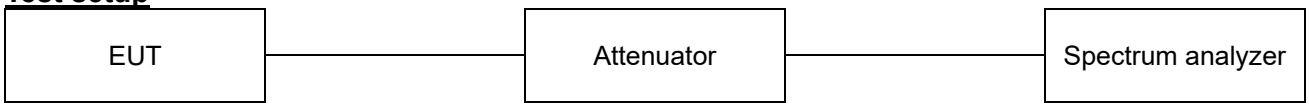
| ANT 1 | ANT 2 |
|---|---|
| **2 467 MHz** | |
| **RU 242T offset 61** | |
|  |  |
| **SU** | |
|  |  |

| ANT 1 | ANT 2 |
|---|---|
| **2 472 ㎒** | |
| **RU 26T offset 0** | |
|  |  |
| **RU 52T offset 37** | |
|  |  |
| **RU 106T offset 53** | |
|  |  |

| ANT 1 | ANT 2 |
|---|---|
| **2 472 ㎒** | |
| **RU 242T offset 61** | |
|  |  |
| **SU** | |
|  |  |

## 7.3. 6 dB Bandwidth(DTS Channel Bandwidth)

**Test setup**




**Limit**

According to §15.247(a)(2), DTSs include systems that employ digital modulation techniques resulting in spectral characteristics similar to direct sequence systems. The following applies to the bands 902–928 ㎒ and 2 400-2 483.5 ㎒

The minimum 6 dB bandwidth shall be 500 ㎑.

**Test procedure**

ANSI C63.10 - Section 11.8.2

**Test settings**

**DTS bandwidth**

One of the following procedures may be used to determine the modulated DTS bandwidth.

**Option 1**

1) Set RBW = 100 ㎑.
2) Set the video bandwidth (VBW) ≥ 3 x RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Sweep = auto couple.
6) Allow the trace to stabilize.
7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 ㏈ relative to the maximum level measured in the fundamental emission.

**Option 2**

The automatic bandwidth measurement capability of an instrument may be employed using the X ㏈ bandwidth mode with X set to 6 ㏈, if the functionality described in 11.8.1 (i.e., RBW = 100 ㎑, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 ㏈..

**Notes:** it may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

## Test results

### SISO_ANT2

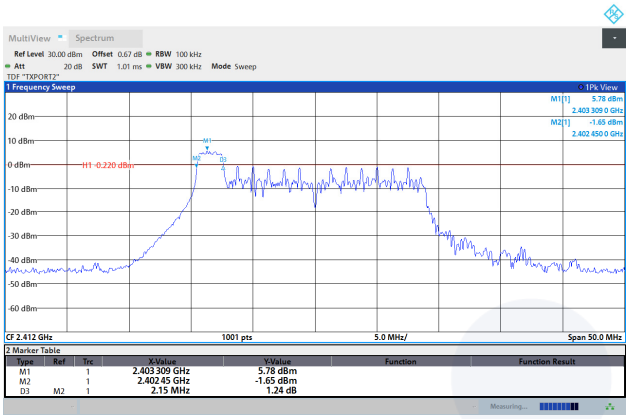
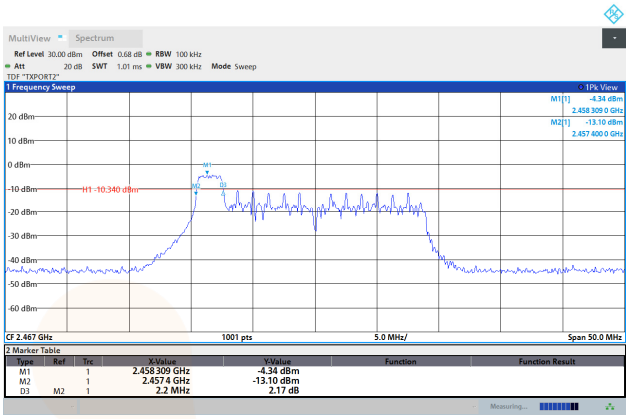
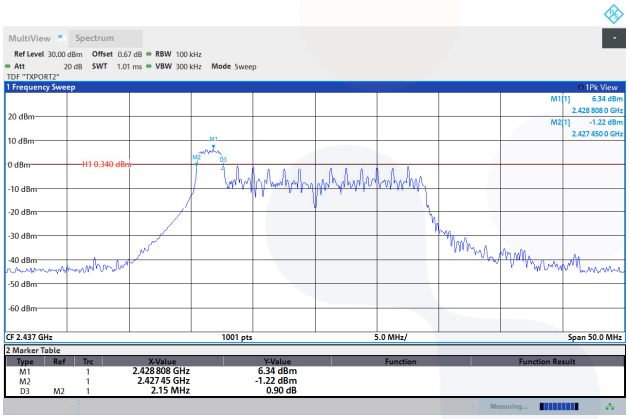
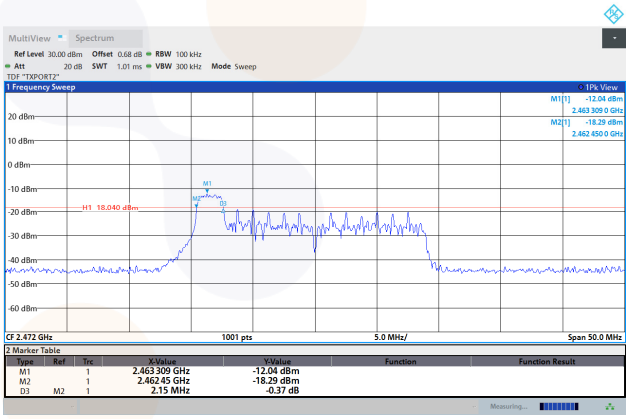
| Frequency(㎒) | Tone | RU Offset | 6 dB Bandwidth(㎒) |
|---|---|---|---|
| 2 412 | 26T | 0 | 2.15 |
| | | 4 | 11.35 |
| | | 8 | 2.20 |
| | 52T | 37 | 17.15 |
| | | 38 | 15.20 |
| | | 40 | 17.20 |
| | 106T | 53 | 17.25 |
| | | 54 | 17.25 |
| | 242T | 61 | 19.05 |
| | SU | - | 16.45 |
| 2 437 | 26T | 0 | 2.15 |
| | | 4 | 7.70 |
| | | 8 | 2.20 |
| | 52T | 37 | 17.15 |
| | | 38 | 15.20 |
| | | 40 | 17.20 |
| | 106T | 53 | 17.25 |
| | | 54 | 17.30 |
| | 242T | 61 | 19.15 |
| | SU | - | 18.55 |
| 2 462 | 26T | 0 | 2.15 |
| | | 4 | 7.70 |
| | | 8 | 15.90 |
| | 52T | 37 | 17.15 |
| | | 38 | 15.20 |
| | | 40 | 17.15 |
| | 106T | 53 | 17.25 |
| | | 54 | 17.30 |
| | 242T | 61 | 19.05 |
| | SU | - | 18.00 |
| 2 467 | 26T | 0 | 2.20 |
| | | 4 | 7.70 |
| | | 8 | 17.15 |
| | 52T | 37 | 17.15 |
| | | 38 | 15.20 |
| | | 40 | 17.20 |
| | 106T | 53 | 17.25 |
| | | 54 | 17.25 |
| | 242T | 61 | 19.10 |
| | SU | - | 16.80 |
| 2 472 | 26T | 0 | 2.15 |
| | | 4 | 8.95 |
| | | 8 | 17.15 |
| | 52T | 37 | 17.15 |
| | | 38 | 15.20 |
| | | 40 | 17.15 |
| | 106T | 53 | 17.25 |
| | | 54 | 17.40 |
| | 242T | 61 | 19.10 |
| | SU | - | 17.00 |

**MIMO**

| Frequency(㎒) | Tone | RU Offset | 6 dB Bandwidth(㎒) | |
|---|---|---|---|---|
| | | | ANT 1 | ANT 2 |
| 2 412 | 26T | 0 | 2.15 | 2.25 |
| | | 4 | 9.05 | 2.75 |
| | | 8 | 2.20 | 2.20 |
| | 52T | 37 | 17.15 | 17.15 |
| | | 38 | 15.25 | 15.20 |
| | | 40 | 17.15 | 17.20 |
| | 106T | 53 | 18.25 | 17.25 |
| | | 54 | 17.25 | 17.30 |
| | 242T | 61 | 19.10 | 19.00 |
| | SU | - | 18.05 | 16.80 |
| 2 437 | 26T | 0 | 2.15 | 2.20 |
| | | 4 | 2.85 | 2.75 |
| | | 8 | 17.15 | 2.20 |
| | 52T | 37 | 17.10 | 17.15 |
| | | 38 | 15.20 | 15.20 |
| | | 40 | 17.20 | 17.20 |
| | 106T | 53 | 18.20 | 18.20 |
| | | 54 | 17.30 | 18.45 |
| | 242T | 61 | 19.05 | 19.10 |
| | SU | - | 15.65 | 17.85 |
| 2 462 | 26T | 0 | 2.15 | 2.25 |
| | | 4 | 7.70 | 2.75 |
| | | 8 | 2.20 | 14.65 |
| | 52T | 37 | 17.15 | 17.15 |
| | | 38 | 15.25 | 15.20 |
| | | 40 | 17.15 | 17.20 |
| | 106T | 53 | 18.25 | 17.25 |
| | | 54 | 17.30 | 18.45 |
| | 242T | 61 | 19.05 | 19.05 |
| | SU | - | 17.40 | 16.10 |
| 2 467 | 26T | 0 | 2.15 | 2.20 |
| | | 4 | 2.85 | 2.75 |
| | | 8 | 15.90 | 14.65 |
| | 52T | 37 | 17.15 | 17.15 |
| | | 38 | 15.25 | 15.20 |
| | | 40 | 17.15 | 17.20 |
| | 106T | 53 | 18.25 | 17.80 |
| | | 54 | 17.30 | 18.50 |
| | 242T | 61 | 19.05 | 19.00 |
| | SU | - | 17.05 | 16.15 |
| 2 472 | 26T | 0 | 2.15 | 2.20 |
| | | 4 | 7.70 | 2.75 |
| | | 8 | 17.20 | 17.15 |
| | 52T | 37 | 17.10 | 17.15 |
| | | 38 | 15.20 | 15.20 |
| | | 40 | 17.15 | 17.20 |
| | 106T | 53 | 18.20 | 17.45 |
| | | 54 | 18.40 | 18.50 |
| | 242T | 61 | 19.05 | 19.10 |
| | SU | - | 17.40 | 17.00 |

**In order to simplify the report, attached plots were the worst case per RU offset & SU Mode**

**SISO_ANT2**

| RU 26T offset 0 / 2 412 ㎒ | RU 26T offset 0 / 2 467 ㎒ |
|---|---|
|  |  |
| **RU 26T offset 0 / 2 437 ㎒** | **RU 26T offset 0 / 2 472 ㎒** |
|  |  |
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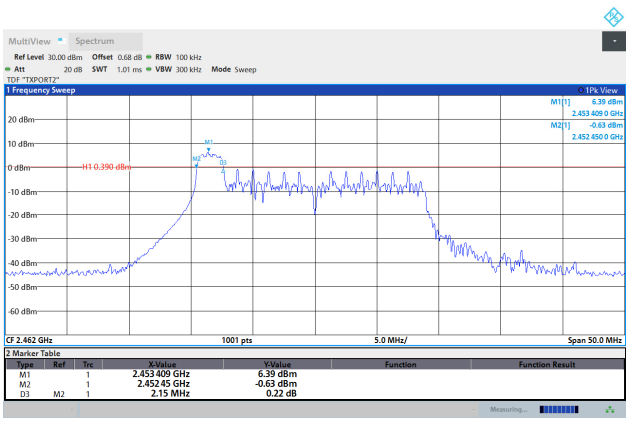
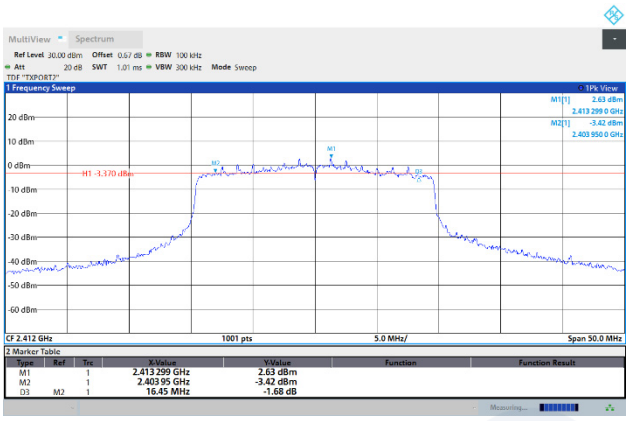
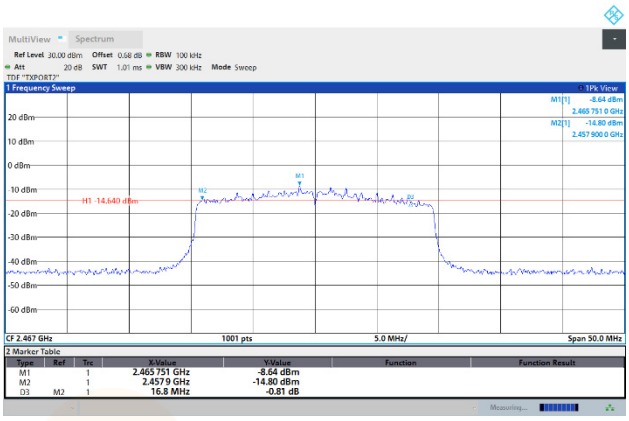
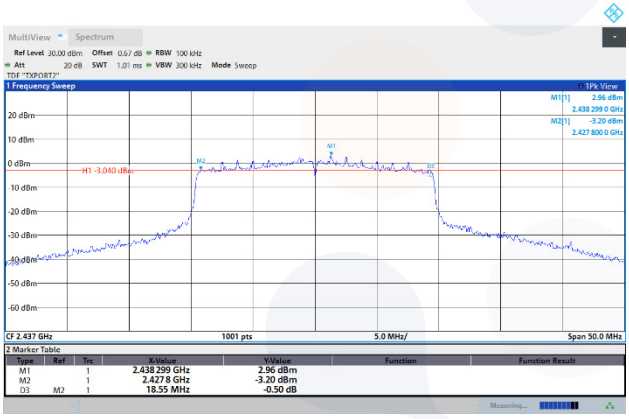
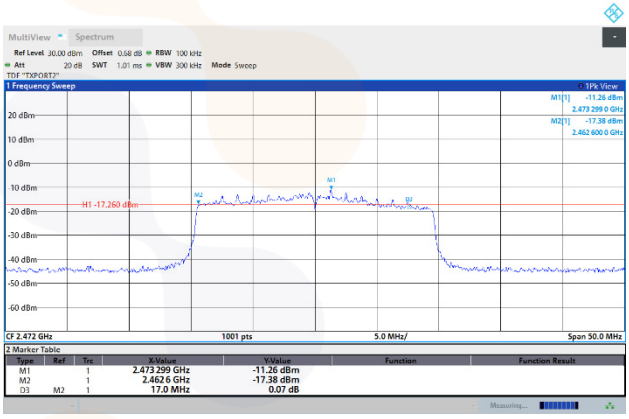
|  | Blank |

| SU / 2 412 ㎒ | SU / 2 467 ㎒ |
|---|---|
|  |  |
| **SU / 2 437 ㎒** | **SU / 2 472 ㎒** |
|  |  |
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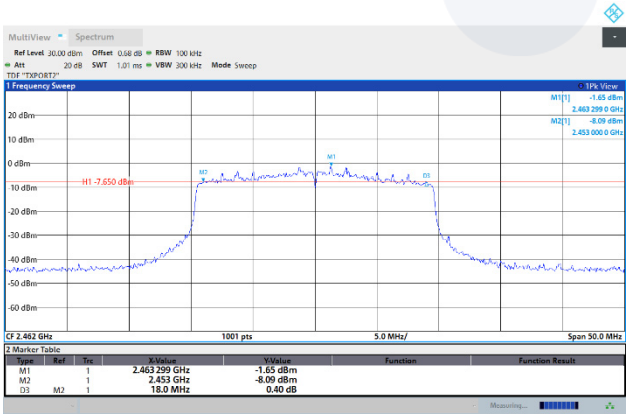
|  | Blank |

## MIMO

| ANT 1 | ANT 2 |
|---|---|
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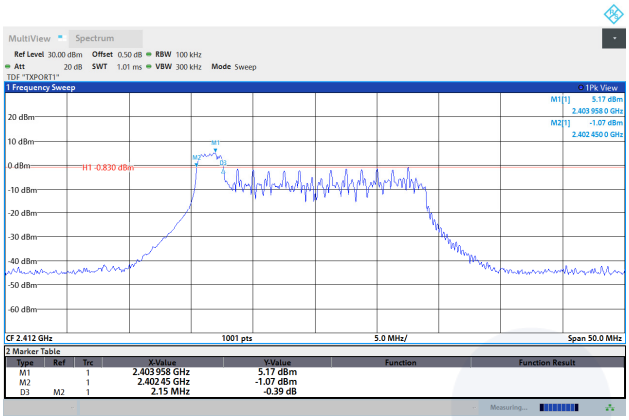
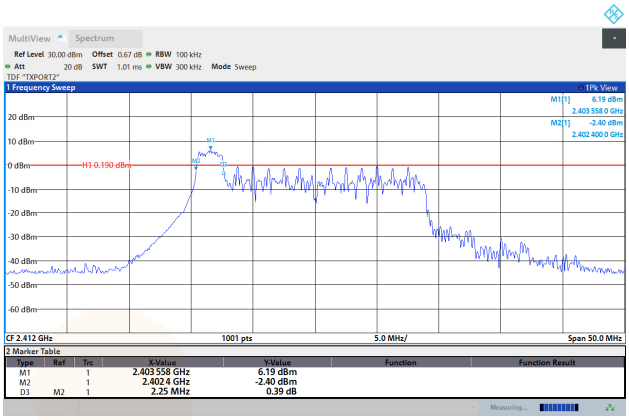
|  |  |
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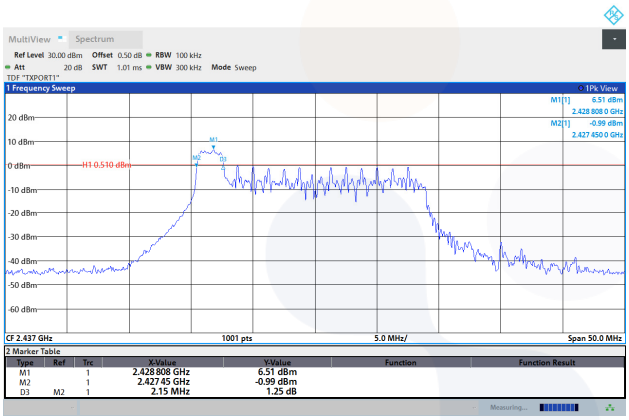
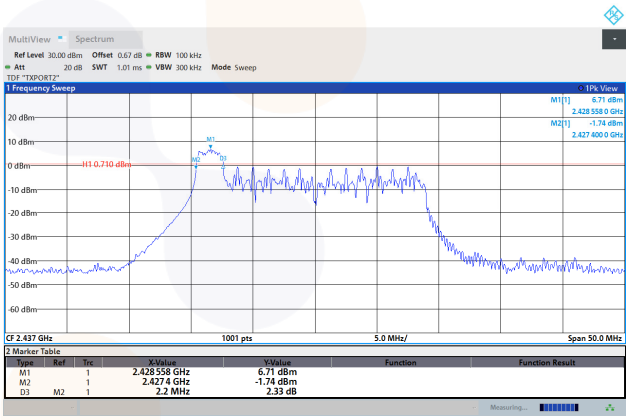
|  |  |
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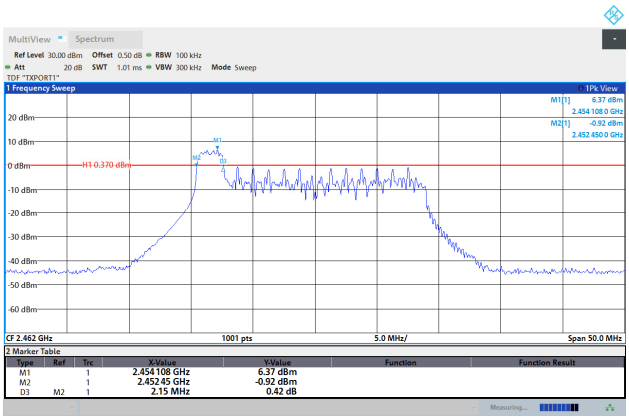
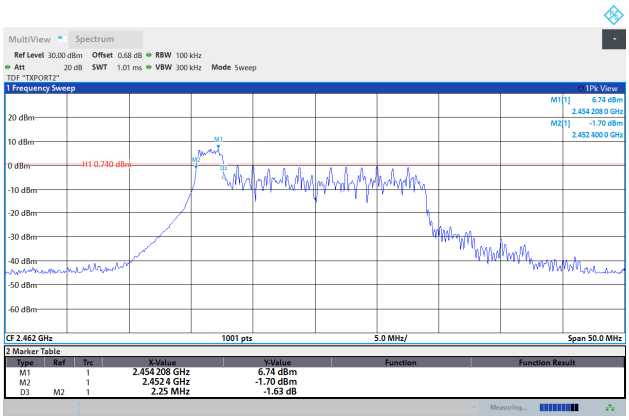
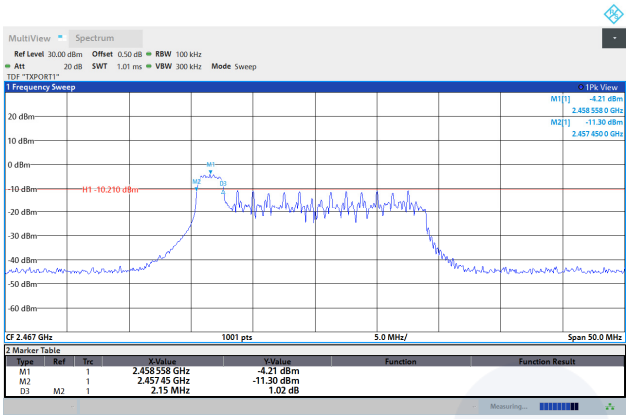
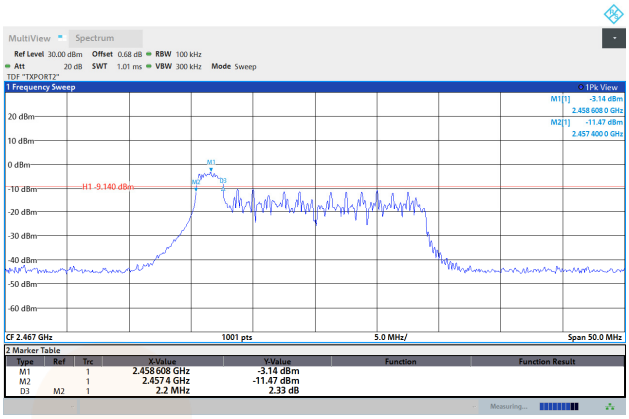
|  |  |

| ANT 1 | ANT 2 |
|---|---|
| **RU 26T offset 0 / 2 467 ㎒** | |
|  |  |
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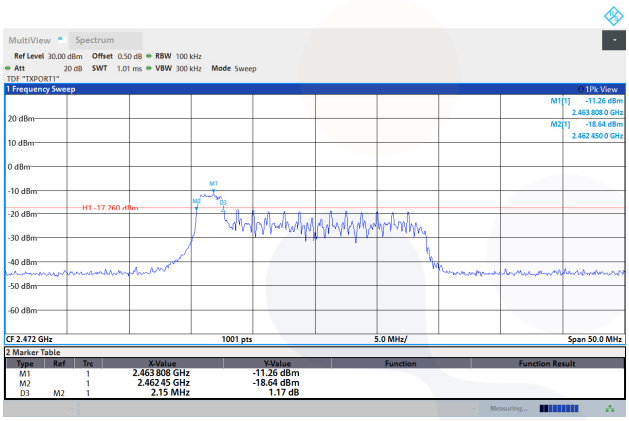
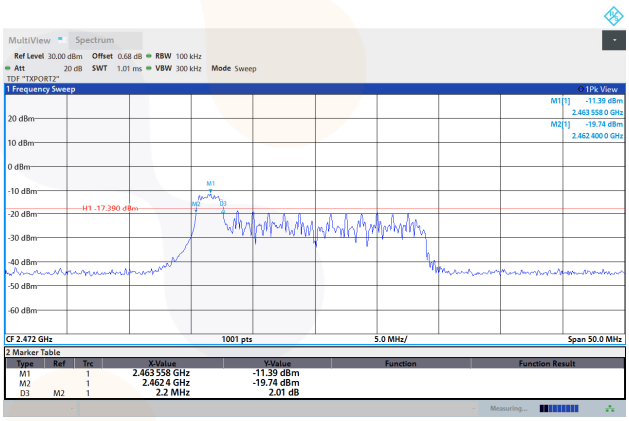
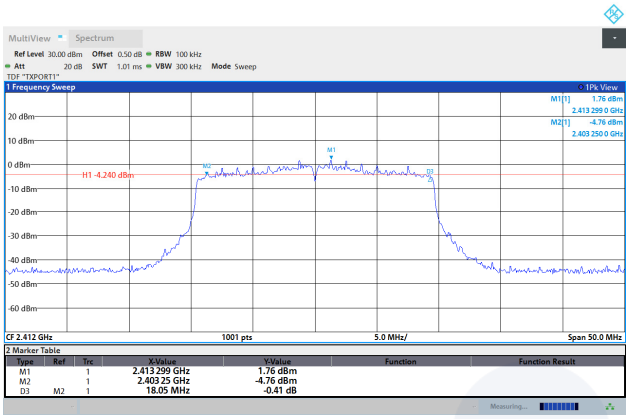
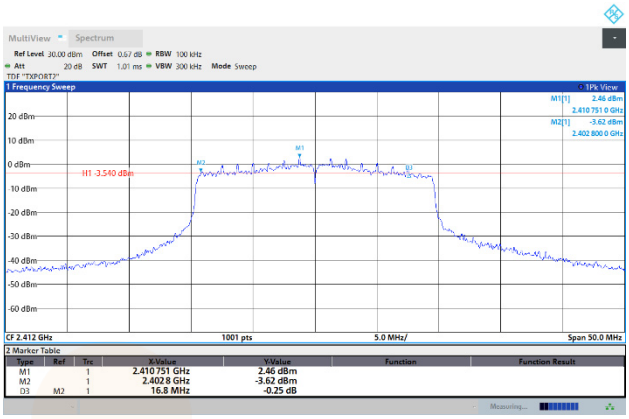
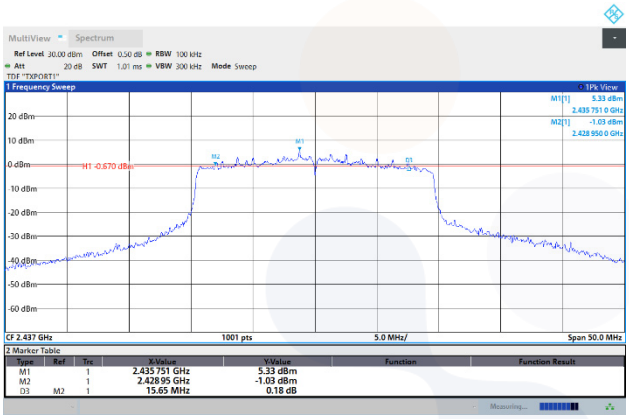
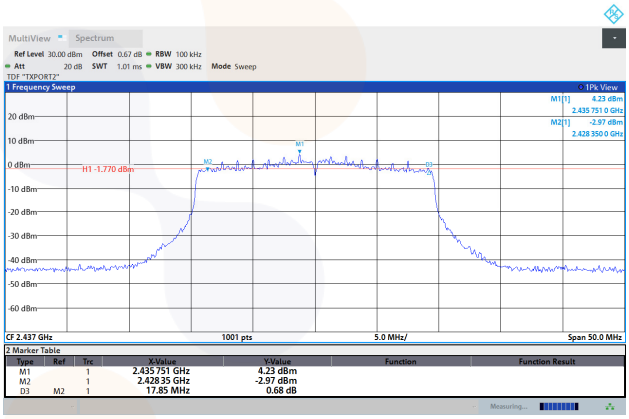
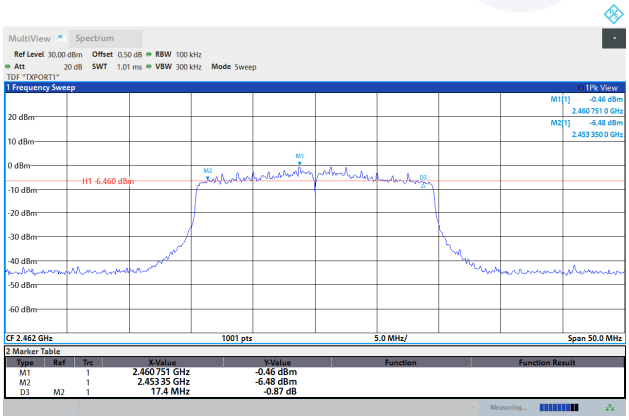
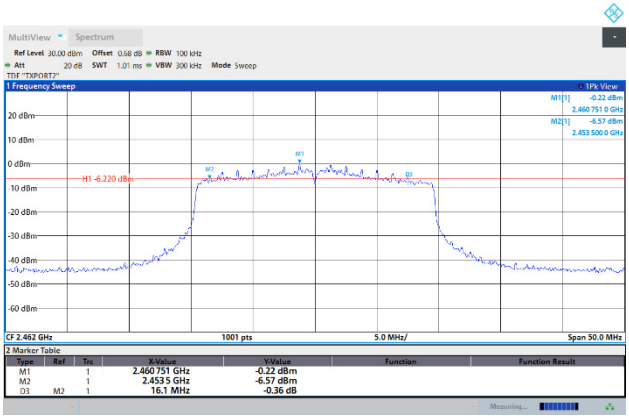
|  |  |

| ANT 1 | ANT 2 |
|---|---|
| **SU / 2 412 ㎒** | |
|  |  |
| **SU / 2 437 ㎒** | |
|  |  |
| **SU / 2 462 ㎒** | |
|  |  |