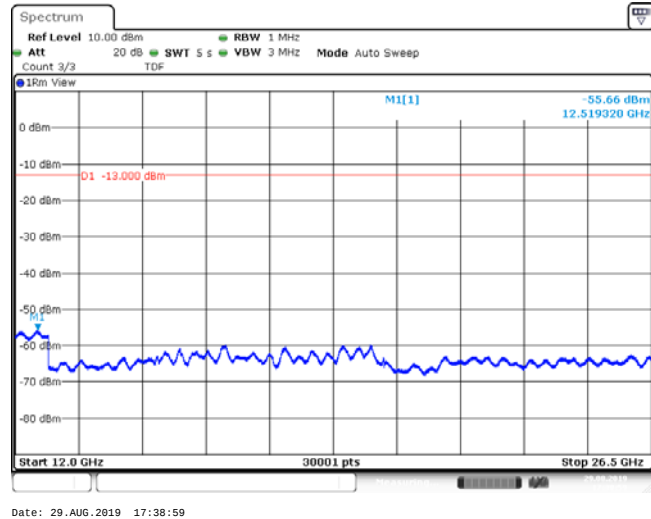
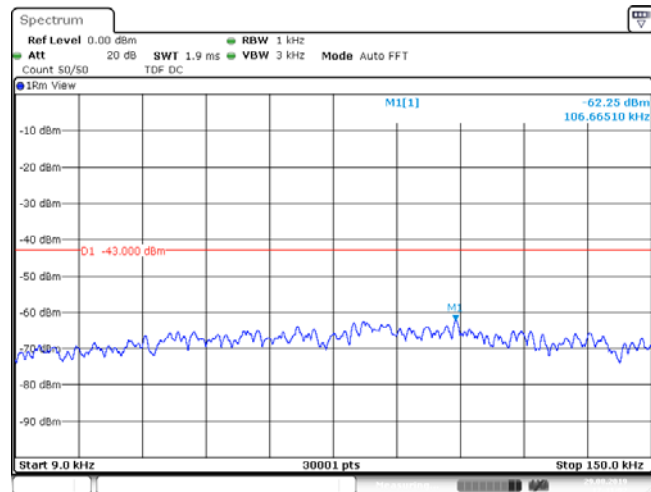




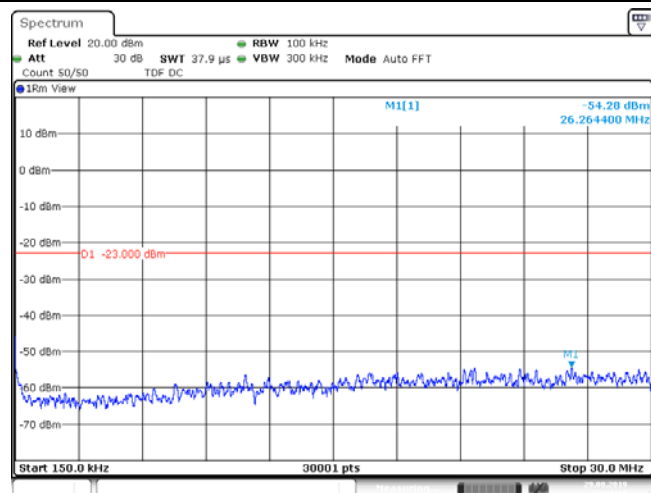
Date: 29.AUG.2019 17:38:59

Band25\_10MHz\_QPSK\_26640\_1RB#0



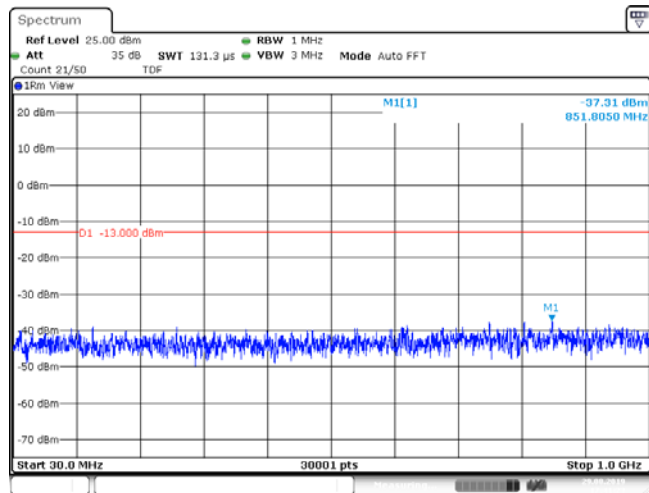
Date: 29.AUG.2019 17:41:01

Band25\_10MHz\_QPSK\_26640\_1RB#0



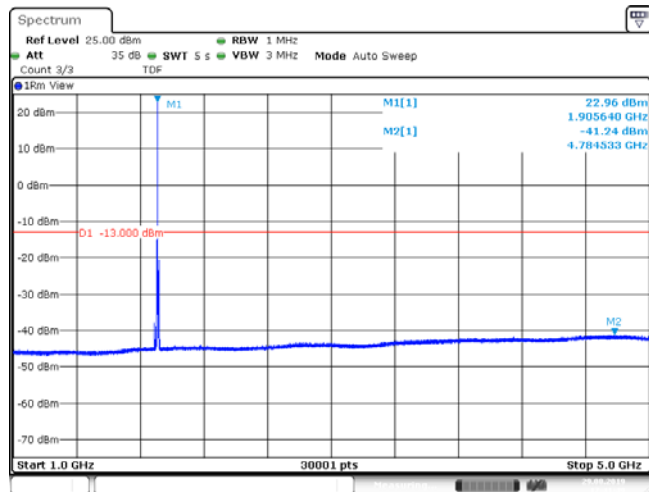
Date: 29.AUG.2019 17:41:11

Band25\_10MHz\_QPSK\_26640\_1RB#0



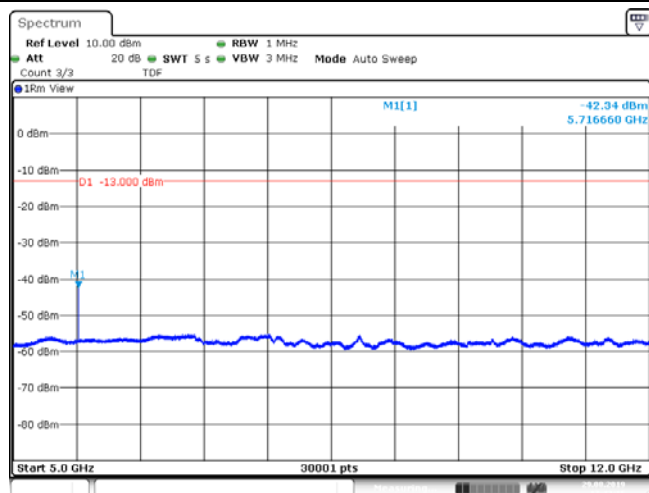
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Band25\_10MHz\_QPSK\_26640\_1RB#0



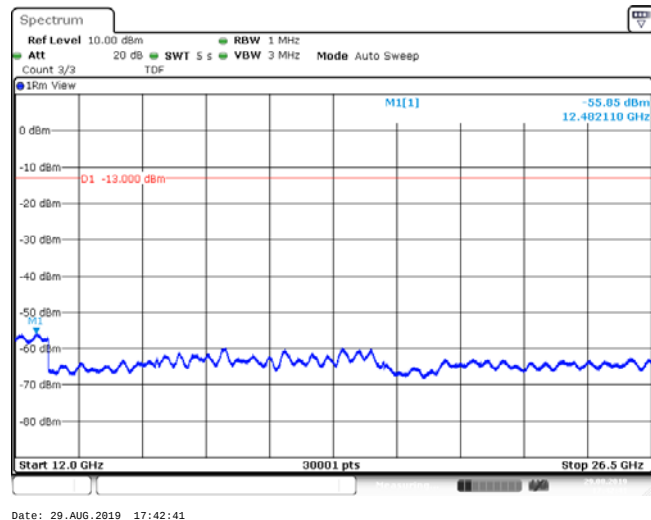
Date: 29.AUG.2019 17:41:49

Band25\_10MHz\_QPSK\_26640\_1RB#0



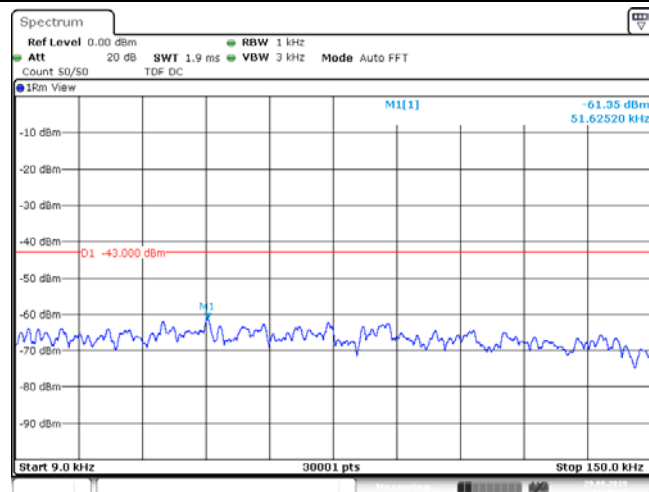
Date: 29.AUG.2019 17:42:15

Band25\_10MHz\_QPSK\_26640\_1RB#0



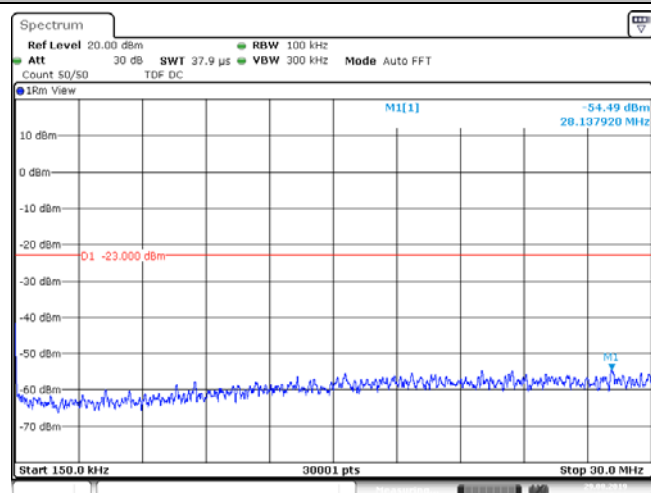
Date: 29.AUG.2019 17:42:41

Band25\_10MHz\_16QAM\_26090\_1RB#0



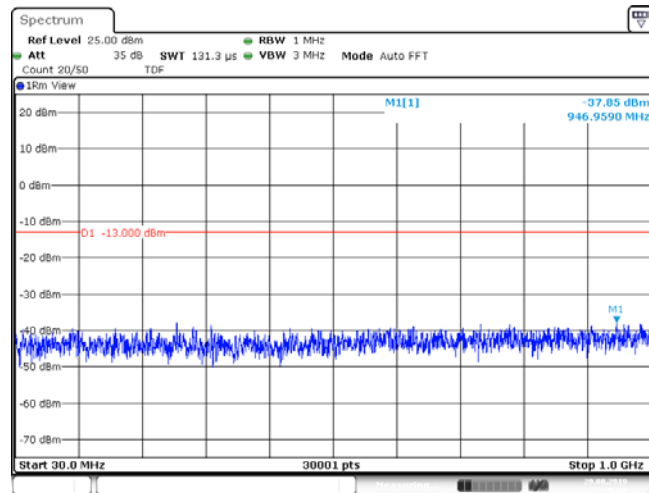
Date: 29.AUG.2019 17:35:27

Band25\_10MHz\_16QAM\_26090\_1RB#0



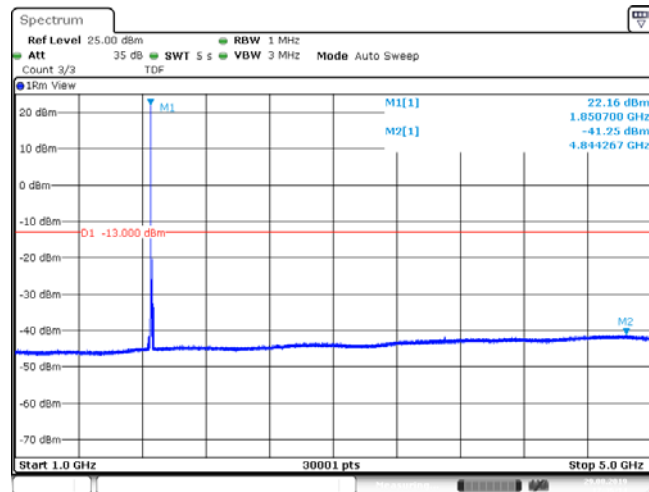
Date: 29.AUG.2019 17:35:36

Band25\_10MHz\_16QAM\_26090\_1RB#0



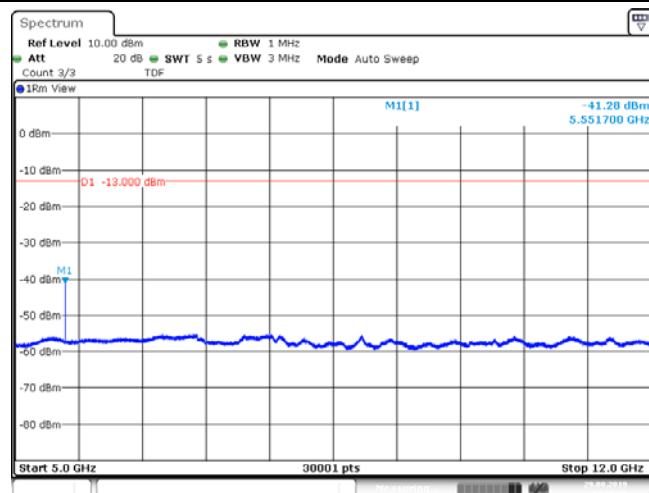
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Band25\_10MHz\_16QAM\_26090\_1RB#0



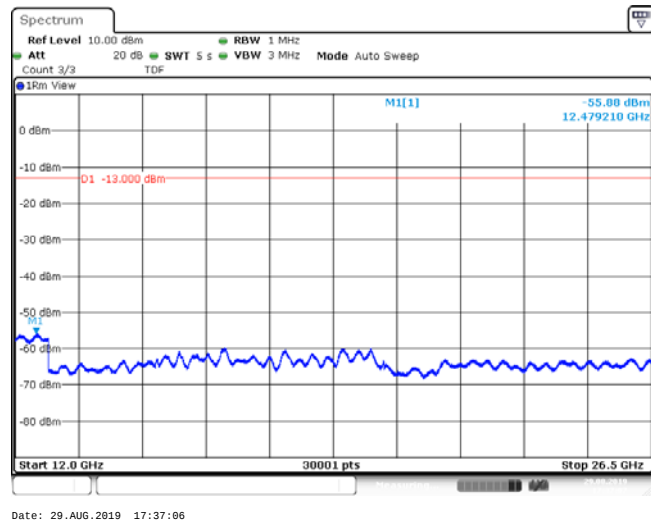
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Band25\_10MHz\_16QAM\_26090\_1RB#0



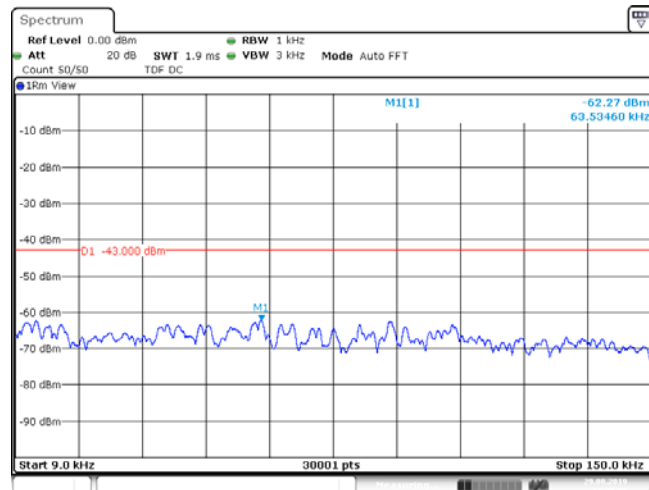
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Band25\_10MHz\_16QAM\_26090\_1RB#0



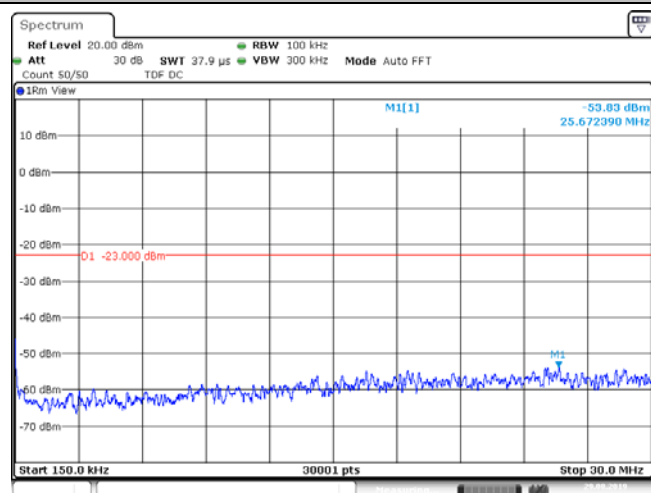
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Band25\_10MHz\_16QAM\_26365\_1RB#0



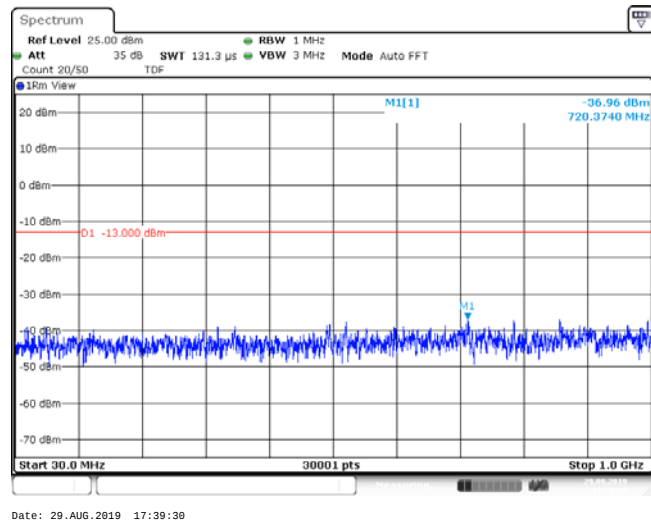
Date: 29.AUG.2019 17:39:09

Band25\_10MHz\_16QAM\_26365\_1RB#0

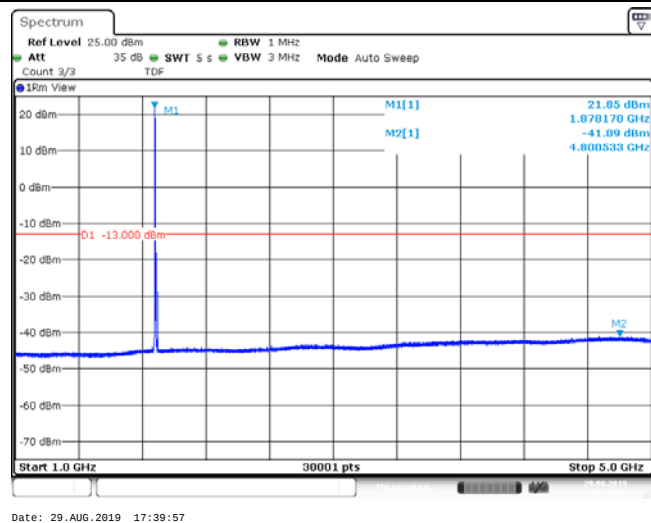


Date: 29.AUG.2019 17:39:19

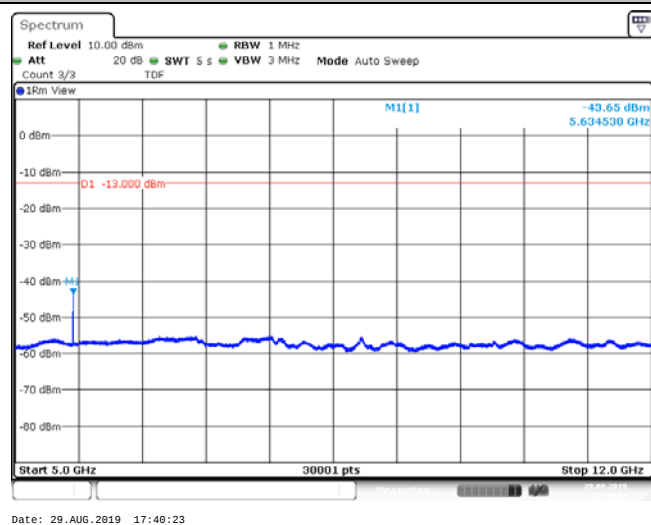
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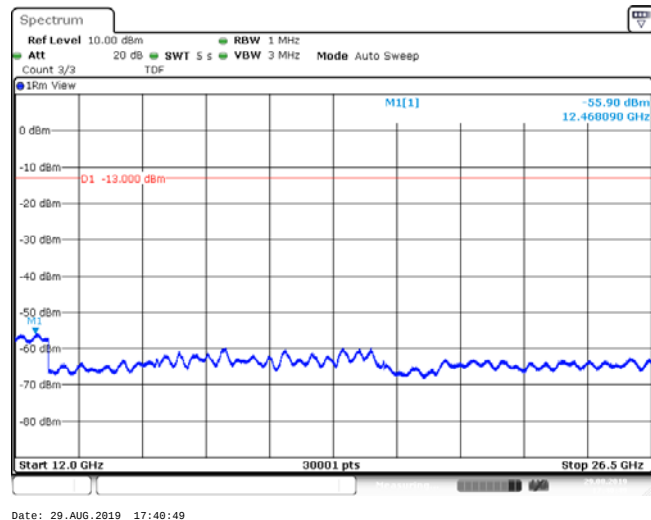
Band25\_10MHz\_16QAM\_26365\_1RB#0



Band25\_10MHz\_16QAM\_26365\_1RB#0

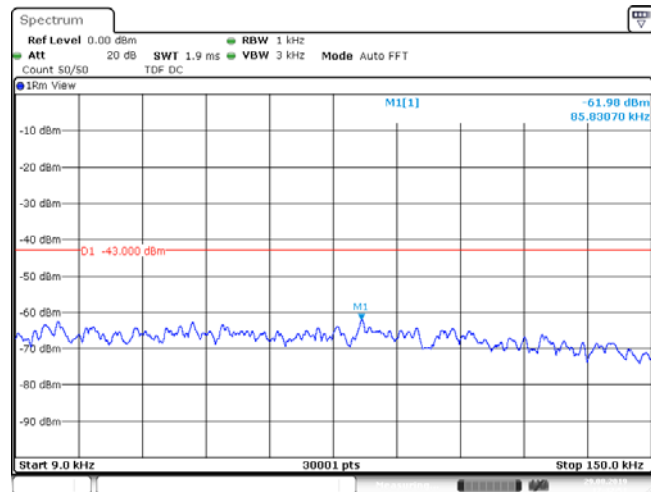


Band25\_10MHz\_16QAM\_26365\_1RB#0



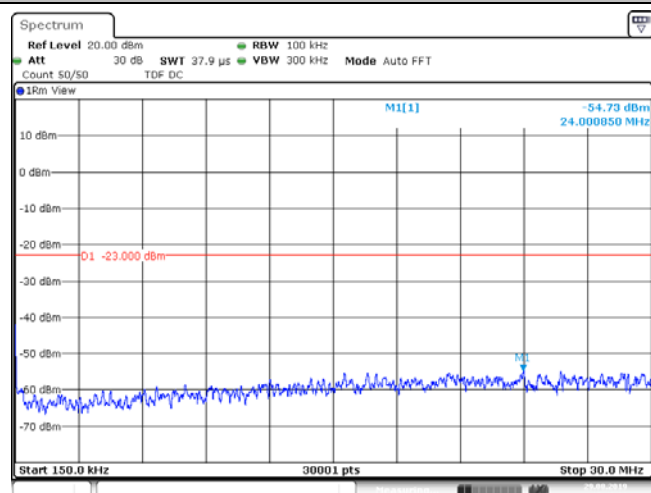
Date: 29.AUG.2019 17:40:49

Band25\_10MHz\_16QAM\_26640\_1RB#0



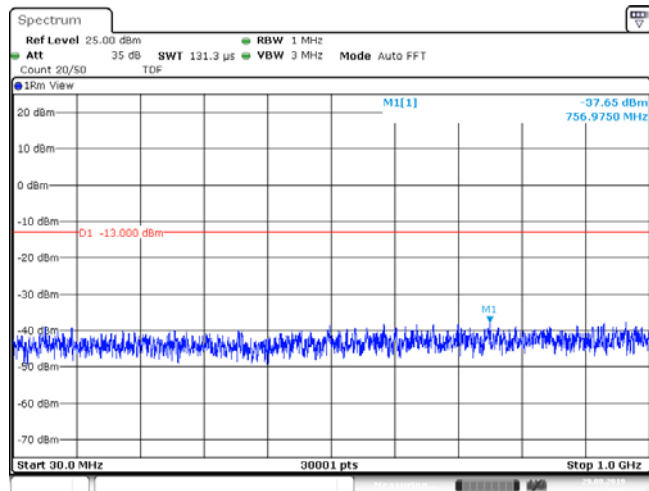
Date: 29.AUG.2019 17:42:51

Band25\_10MHz\_16QAM\_26640\_1RB#0



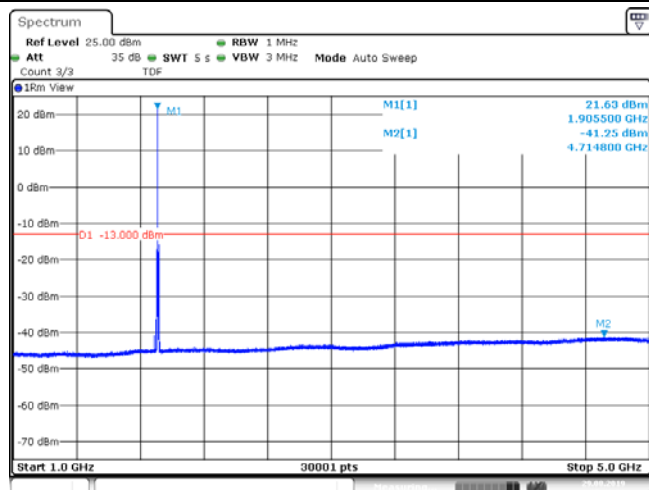
Date: 29.AUG.2019 17:43:01

Band25\_10MHz\_16QAM\_26640\_1RB#0



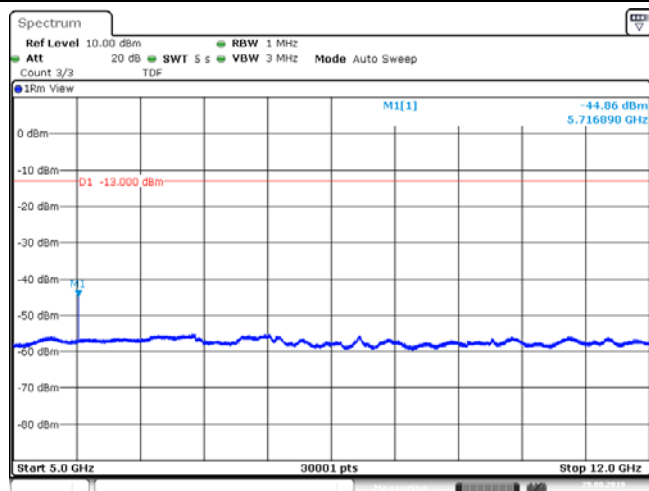
Date: 29.AUG.2019 17:43:12

Band25\_10MHz\_16QAM\_26640\_1RB#0



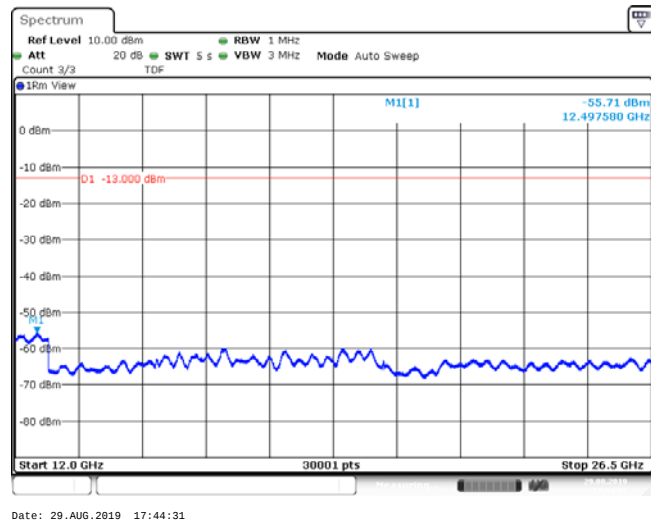
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Band25\_10MHz\_16QAM\_26640\_1RB#0



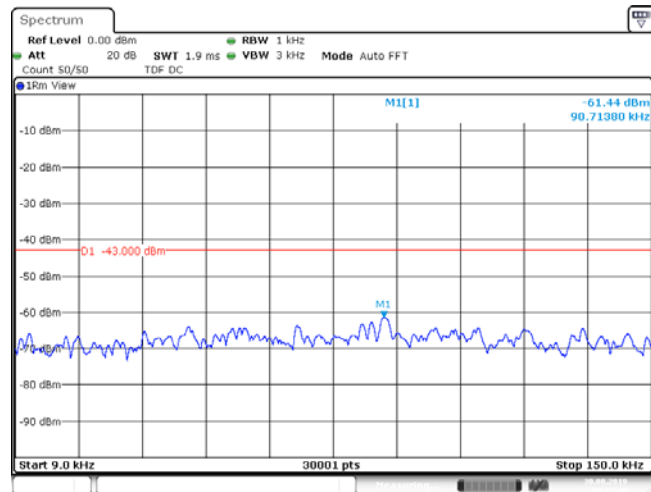
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Band25\_10MHz\_16QAM\_26640\_1RB#0



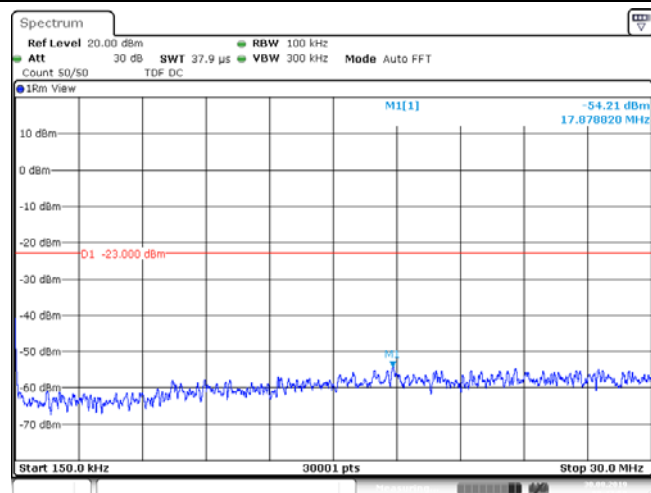
Date: 29.AUG.2019 17:44:31

Band25\_15MHz\_QPSK\_26115\_1RB#0



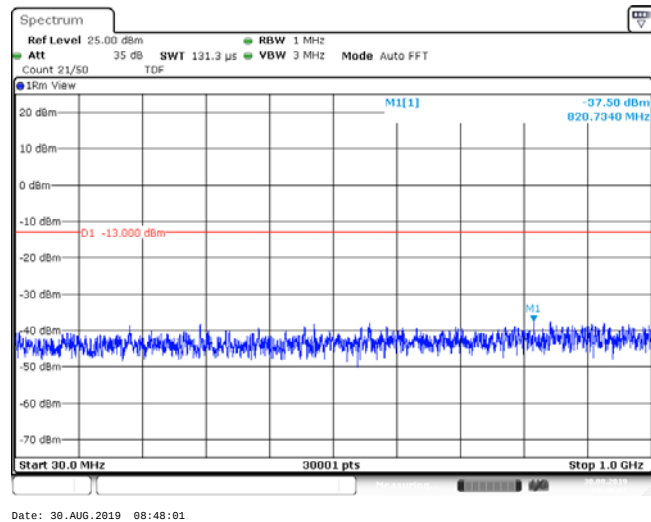
Date: 30.AUG.2019 08:47:40

Band25\_15MHz\_QPSK\_26115\_1RB#0

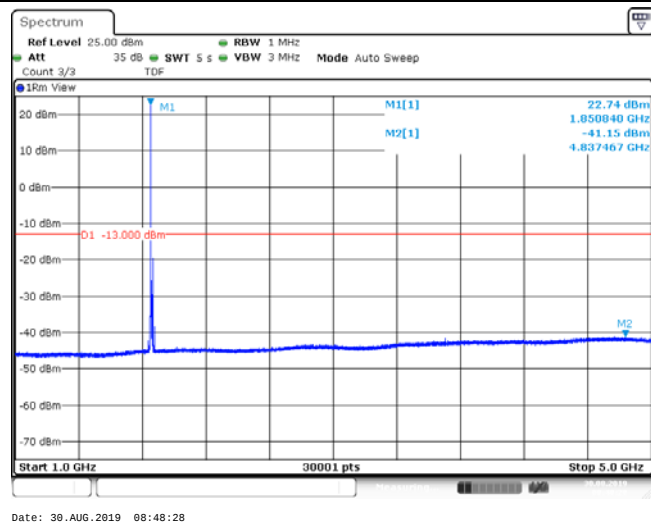


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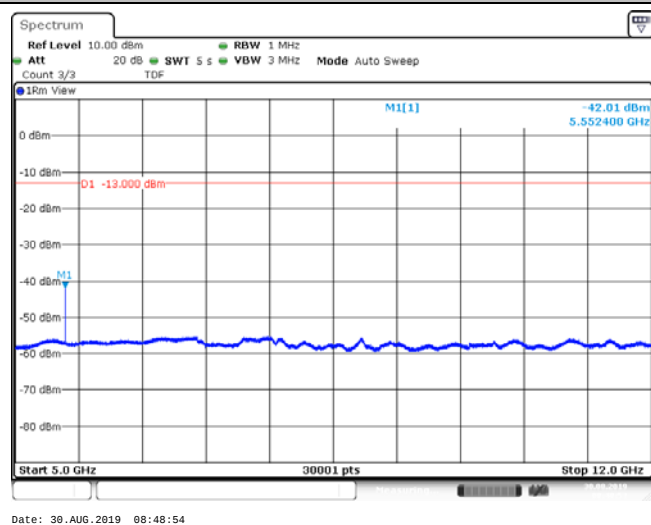
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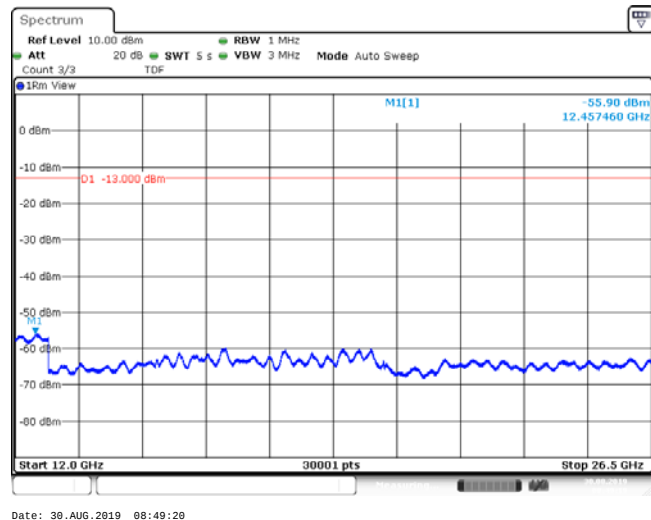
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Band25\_15MHz\_QPSK\_26115\_1RB#0

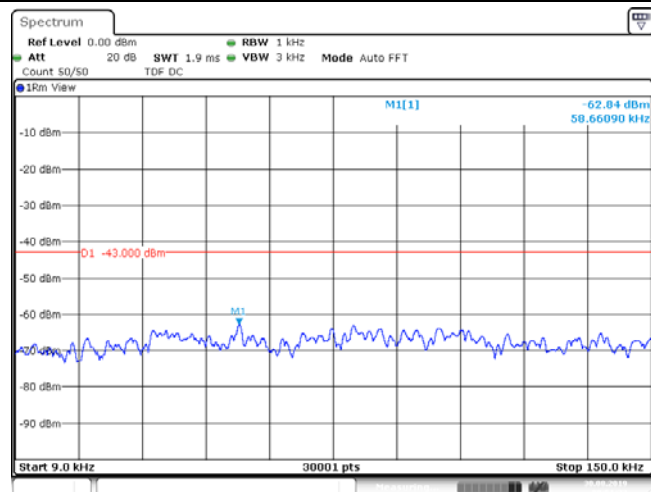


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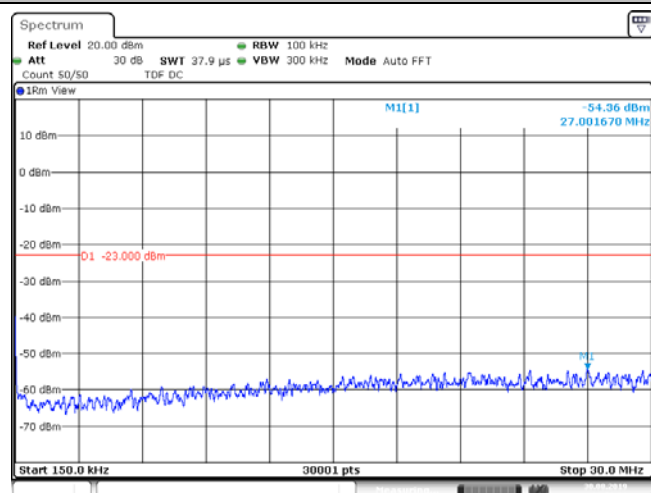
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Band25\_15MHz\_QPSK\_26365\_1RB#0



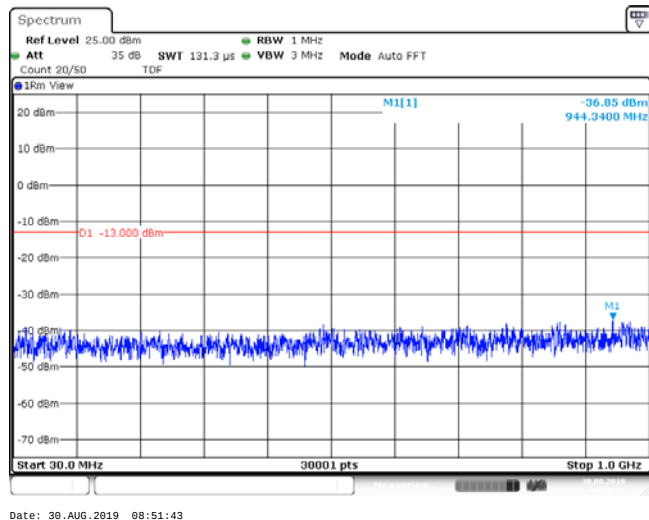
Date: 30.AUG.2019 08:51:22

Band25\_15MHz\_QPSK\_26365\_1RB#0



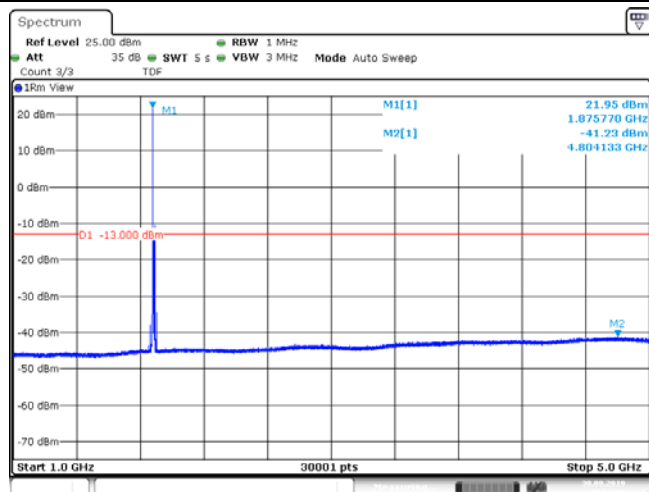
Date: 30.AUG.2019 08:51:32

Band25\_15MHz\_QPSK\_26365\_1RB#0



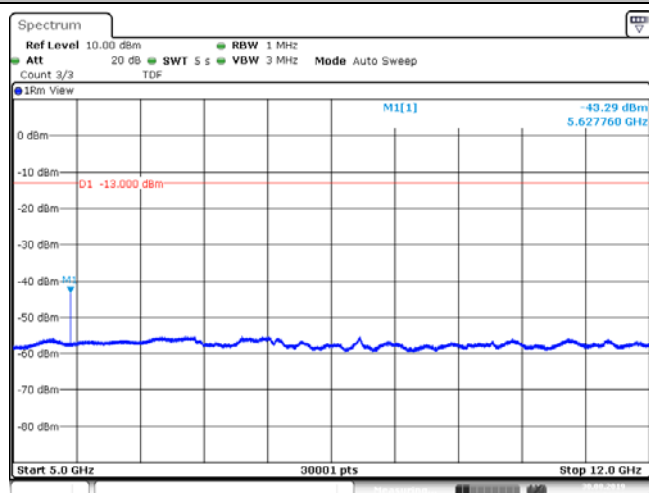
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Band25\_15MHz\_QPSK\_26365\_1RB#0



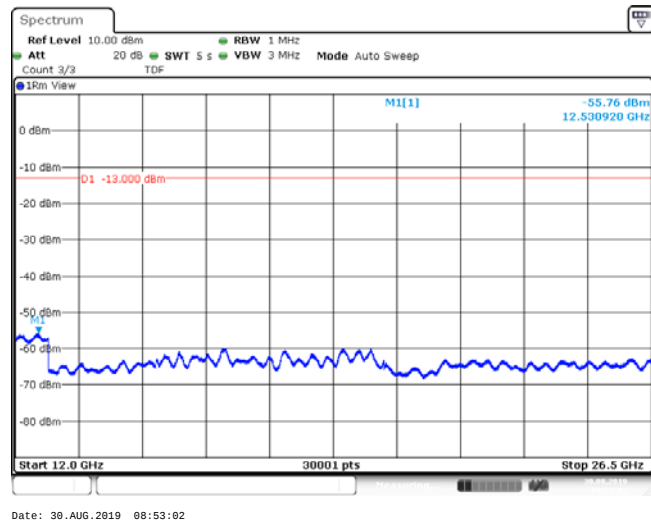
Date: 30.AUG.2019 08:52:10

Band25\_15MHz\_QPSK\_26365\_1RB#0



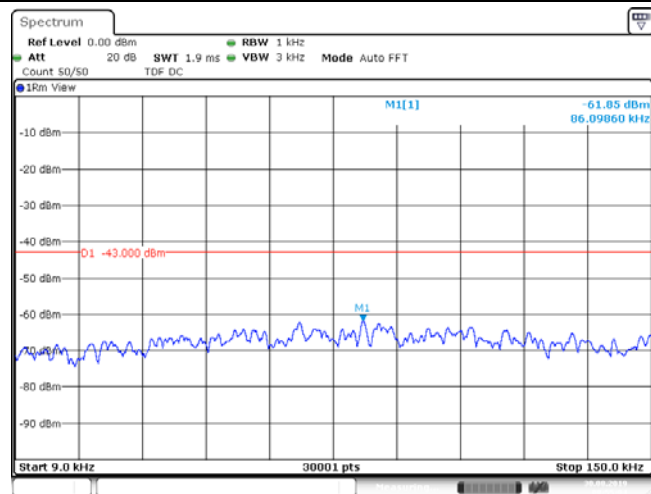
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Band25\_15MHz\_QPSK\_26365\_1RB#0



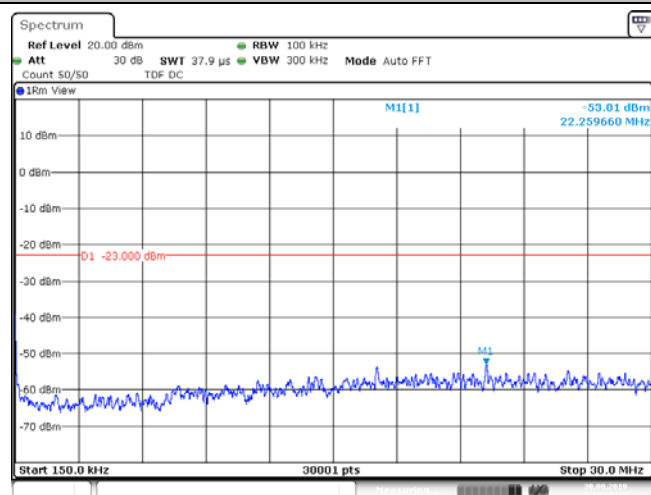
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Band25\_15MHz\_QPSK\_26615\_1RB#0



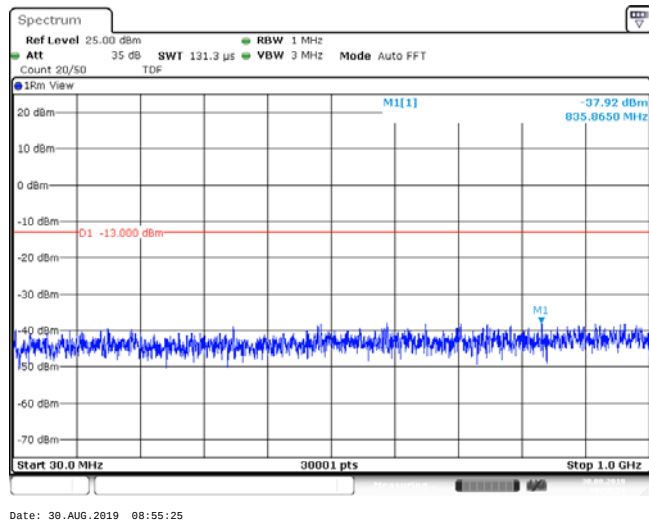
Date: 30.AUG.2019 08:55:04

Band25\_15MHz\_QPSK\_26615\_1RB#0



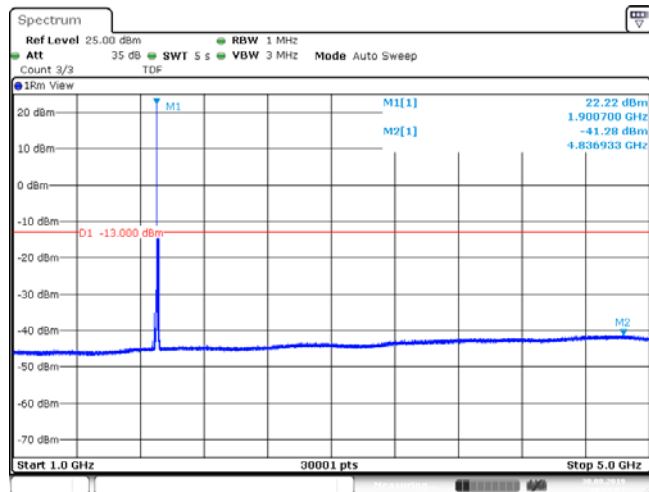
Date: 30.AUG.2019 08:55:13

Band25\_15MHz\_QPSK\_26615\_1RB#0



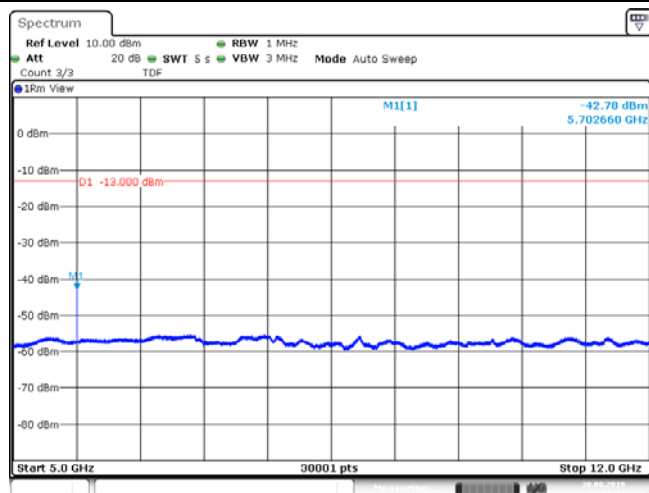
Date: 30.AUG.2019 08:55:25

Band25\_15MHz\_QPSK\_26615\_1RB#0



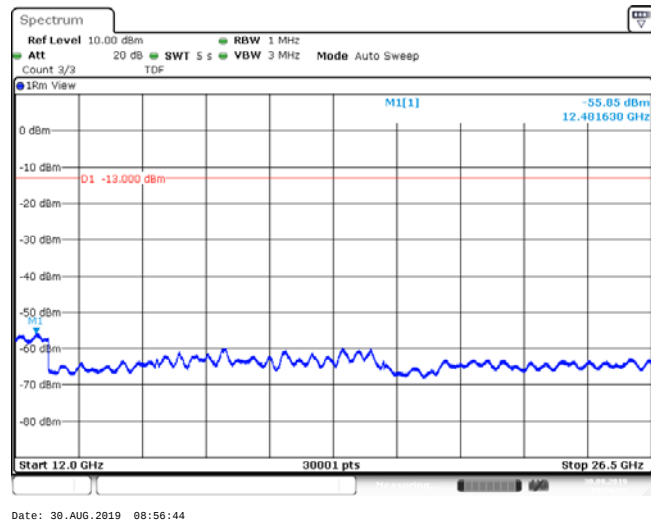
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Band25\_15MHz\_QPSK\_26615\_1RB#0

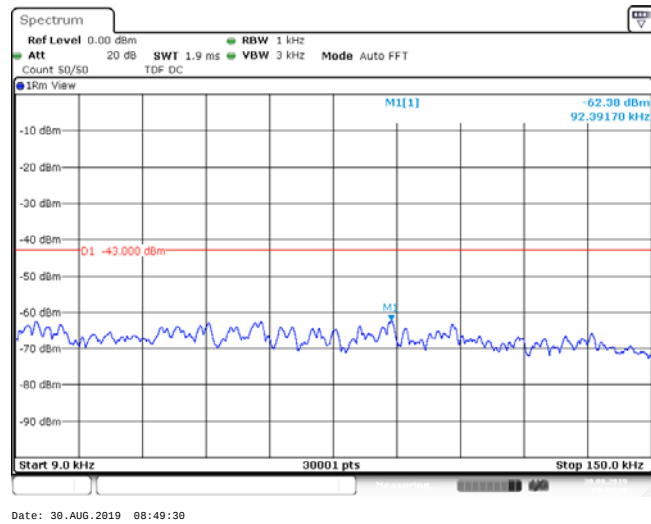


Date: 30.AUG.2019 08:56:18

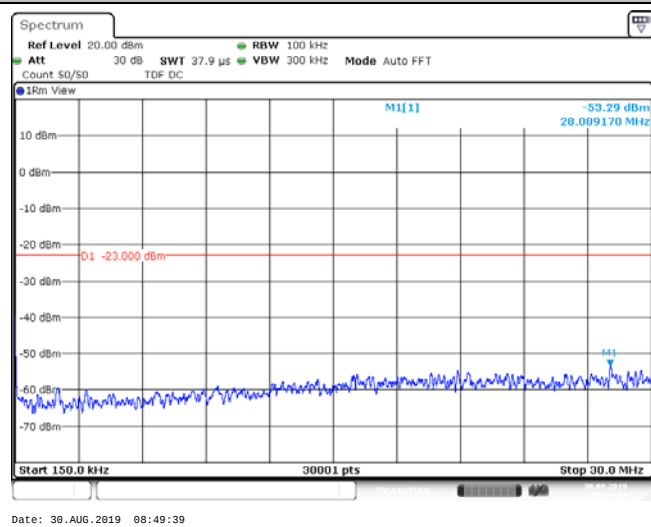
Band25\_15MHz\_QPSK\_26615\_1RB#0



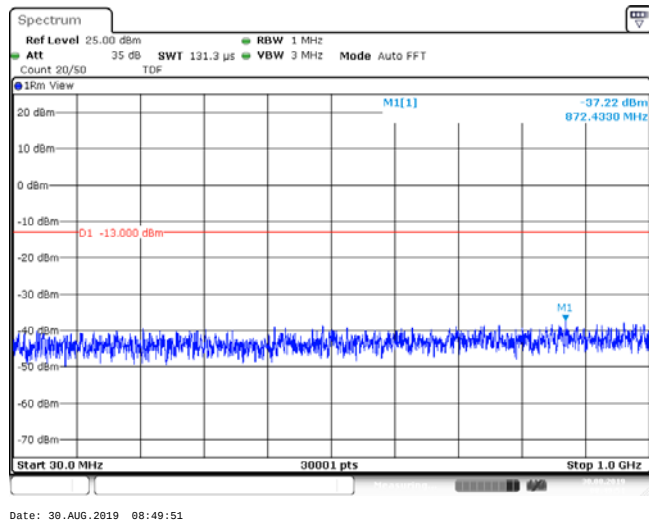
Band25\_15MHz\_16QAM\_26115\_1RB#0



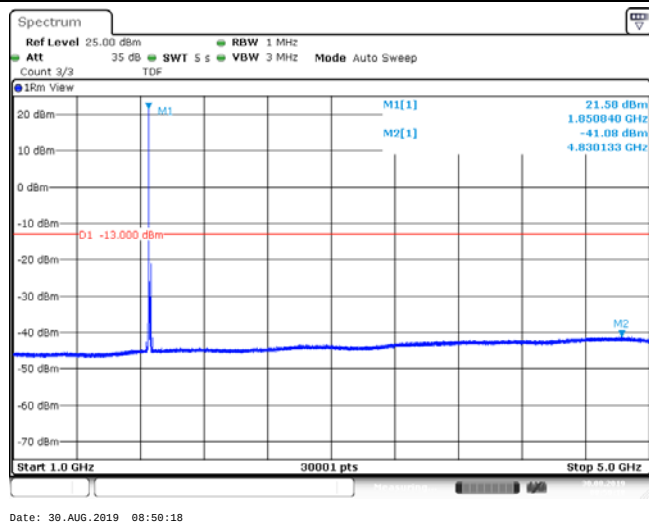
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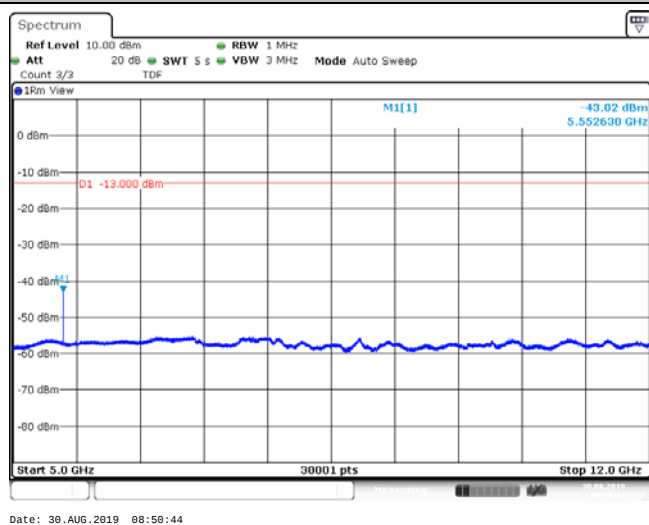
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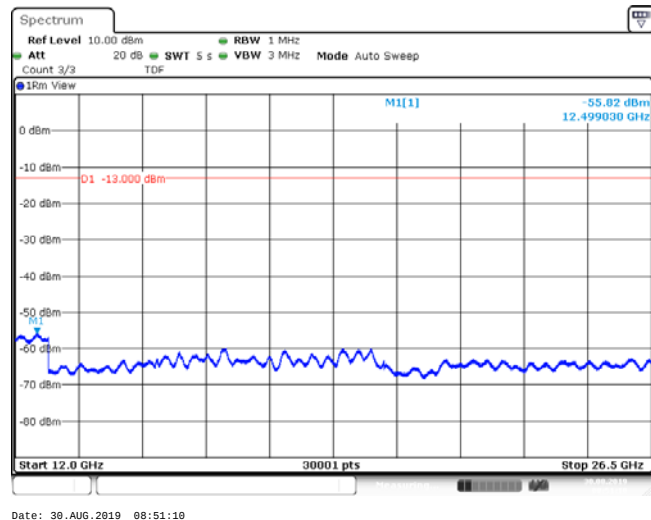
Band25\_15MHz\_16QAM\_26115\_1RB#0



Band25\_15MHz\_16QAM\_26115\_1RB#0

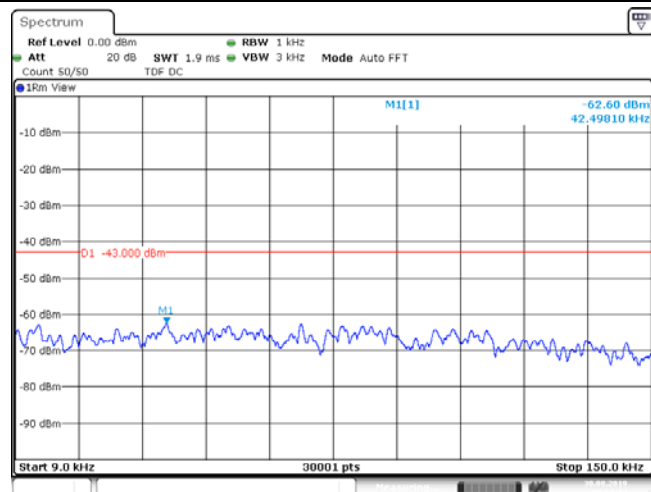


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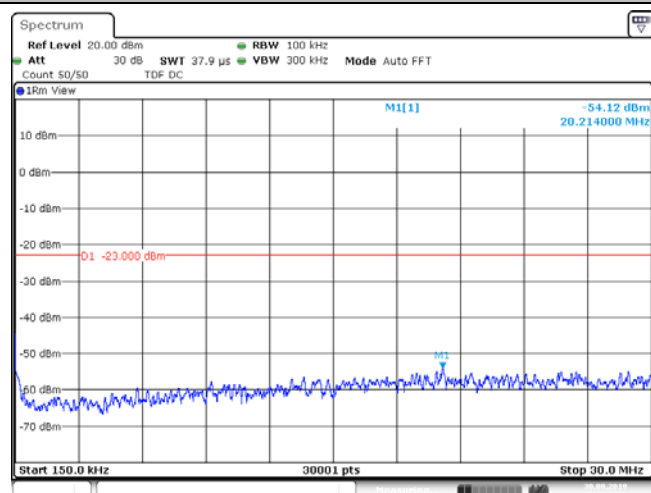
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Band25\_15MHz\_16QAM\_26365\_1RB#0



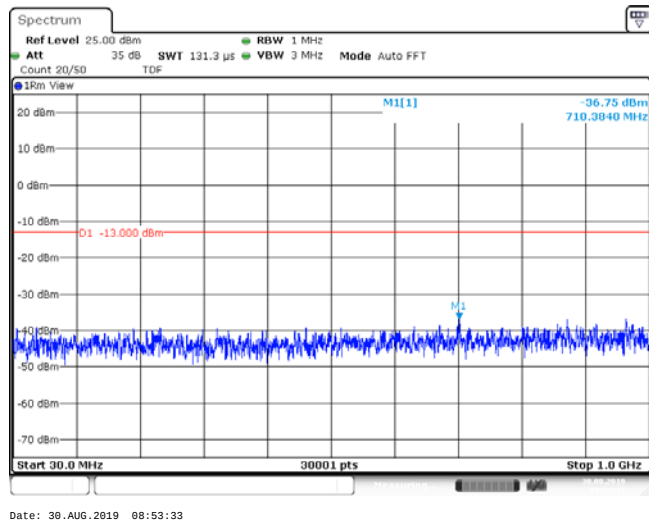
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Band25\_15MHz\_16QAM\_26365\_1RB#0



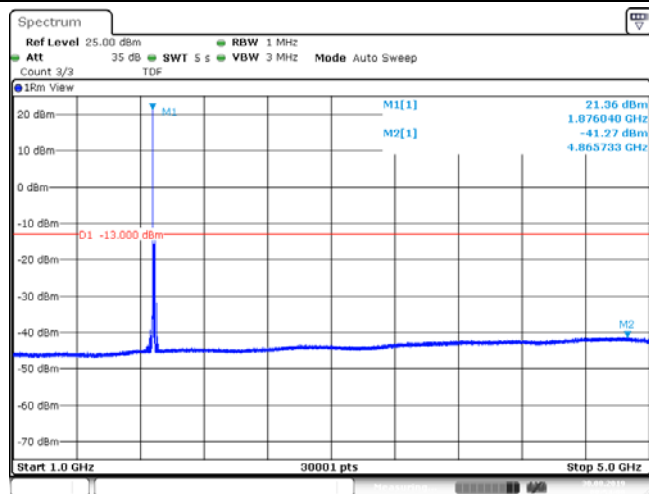
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Band25\_15MHz\_16QAM\_26365\_1RB#0



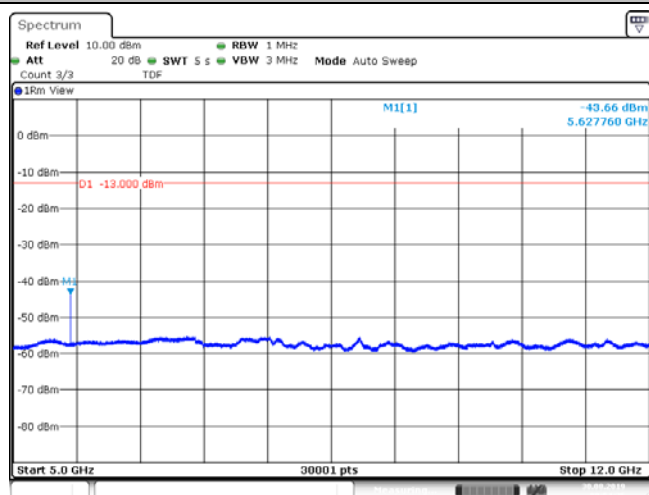
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Band25\_15MHz\_16QAM\_26365\_1RB#0



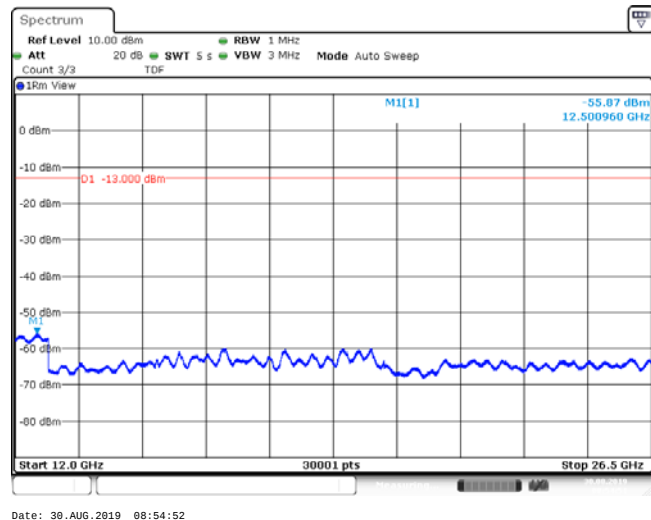
Date: 30.AUG.2019 08:54:00

Band25\_15MHz\_16QAM\_26365\_1RB#0



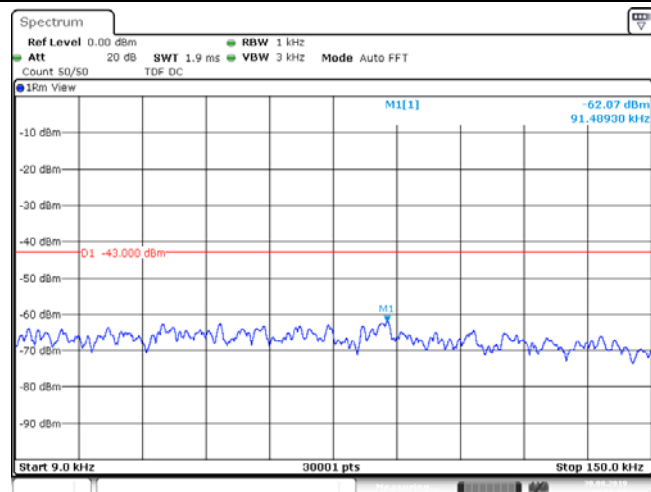
Date: 30.AUG.2019 08:54:26

Band25\_15MHz\_16QAM\_26365\_1RB#0



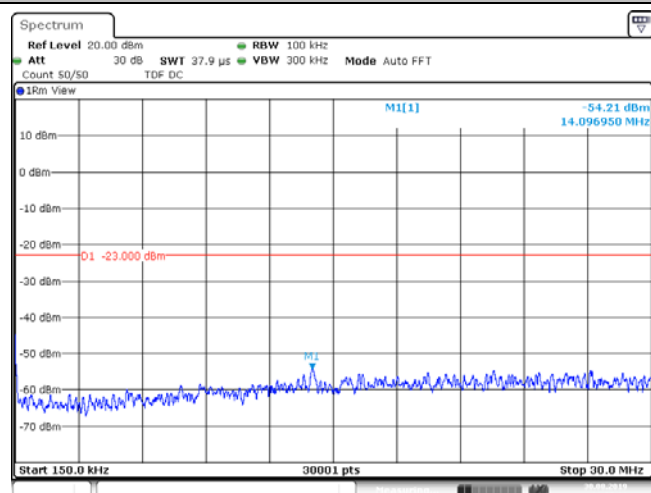
Date: 30.AUG.2019 08:54:52

Band25\_15MHz\_16QAM\_26615\_1RB#0



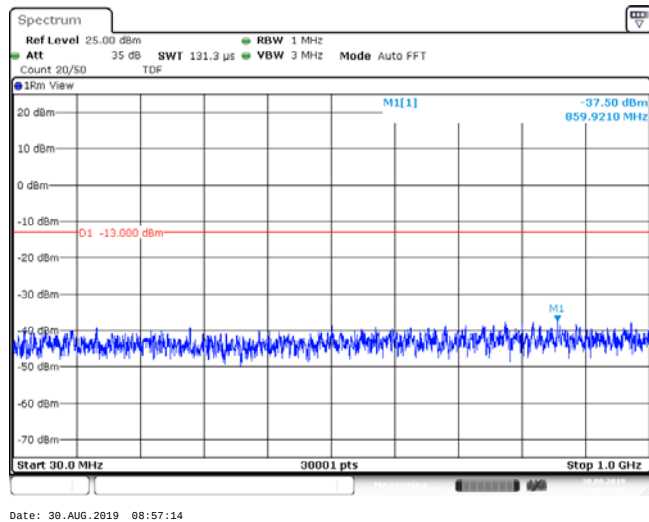
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Band25\_15MHz\_16QAM\_26615\_1RB#0

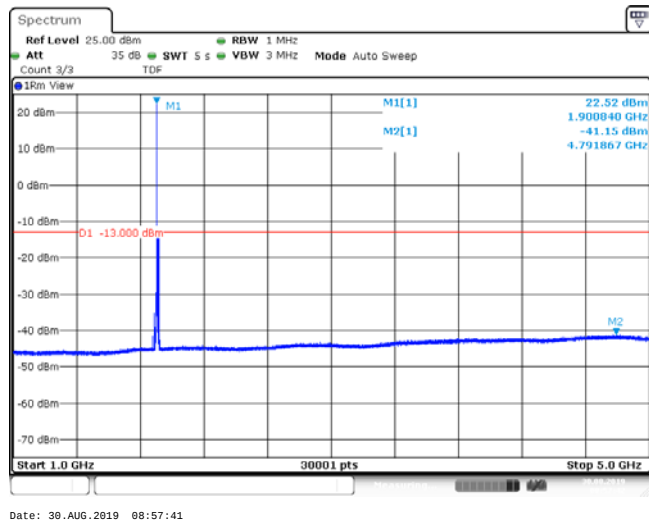


Date: 30.AUG.2019 08:57:03

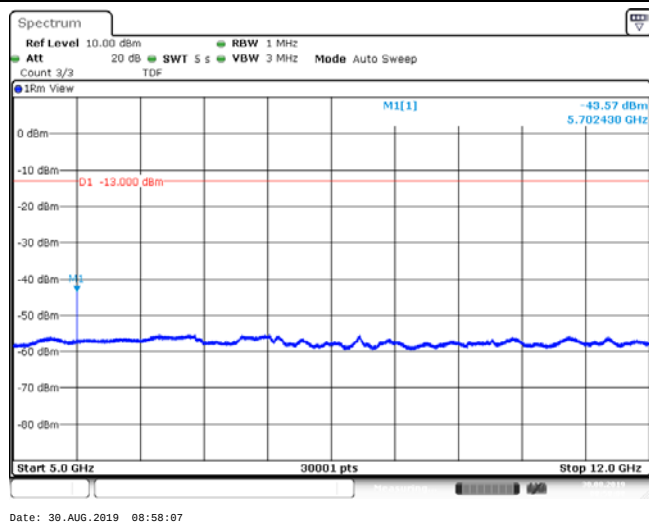
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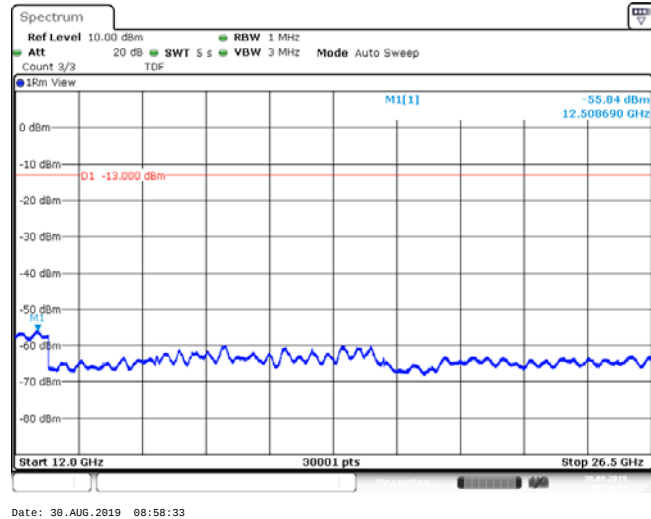
Band25\_15MHz\_16QAM\_26615\_1RB#0



Band25\_15MHz\_16QAM\_26615\_1RB#0

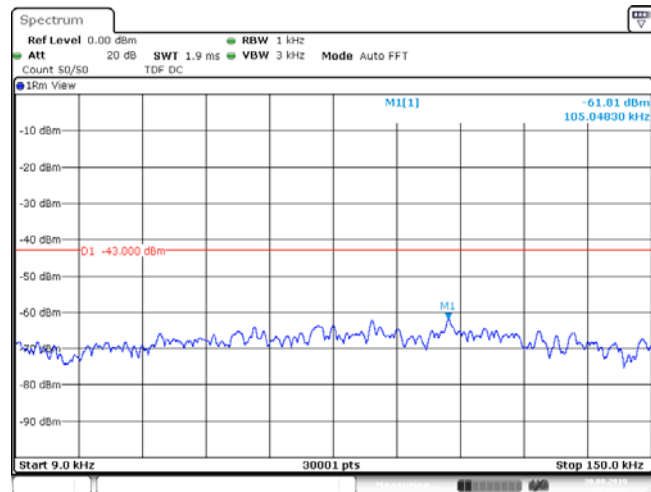


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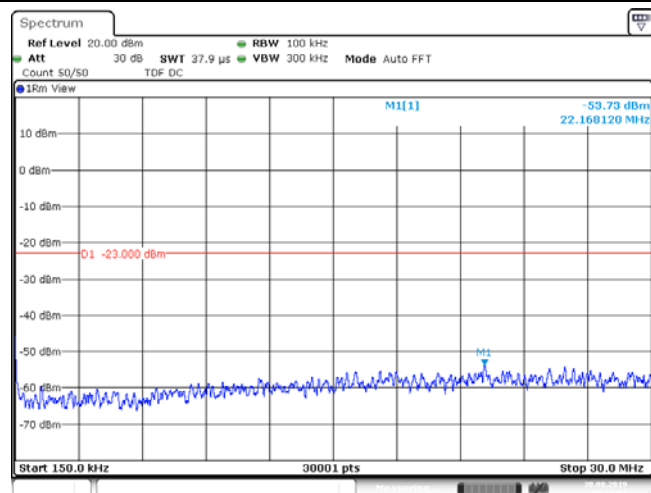
Date: 30.AUG.2019 08:58:33

Band25\_20MHz\_QPSK\_26140\_1RB#0



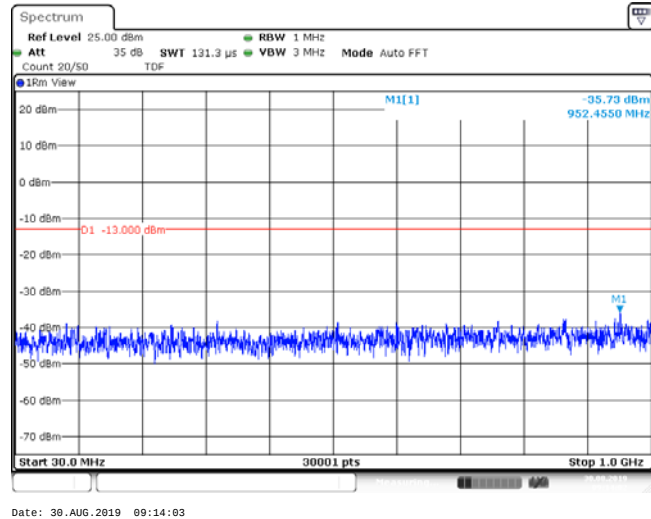
Date: 30.AUG.2019 09:13:42

Band25\_20MHz\_QPSK\_26140\_1RB#0



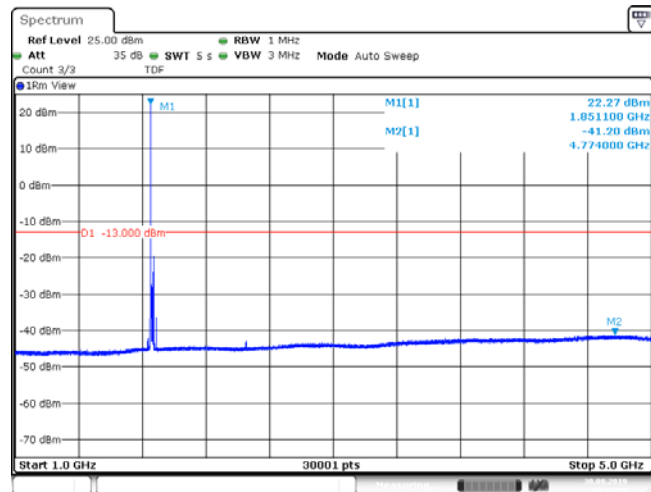
Date: 30.AUG.2019 09:13:51

Band25\_20MHz\_QPSK\_26140\_1RB#0



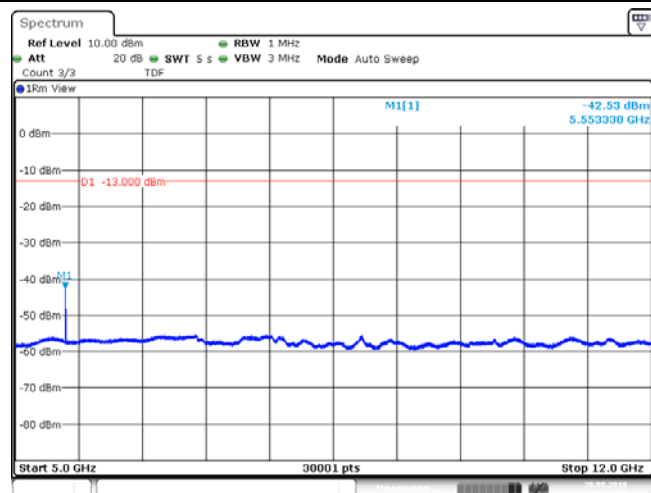
Date: 30.AUG.2019 09:14:03

Band25\_20MHz\_QPSK\_26140\_1RB#0



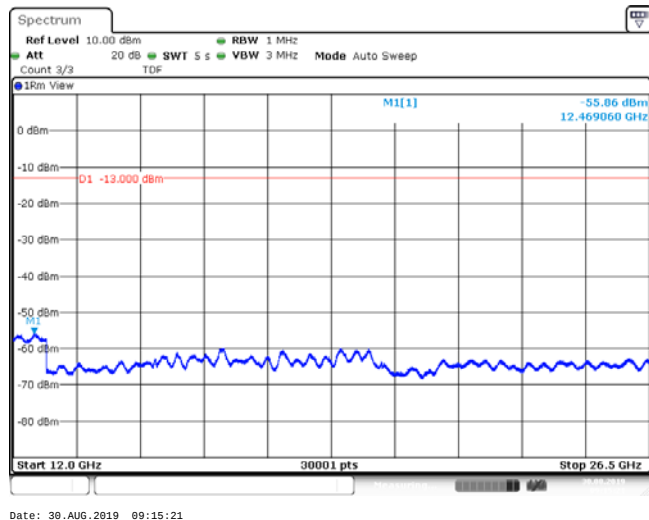
Date: 30.AUG.2019 09:14:29

Band25\_20MHz\_QPSK\_26140\_1RB#0



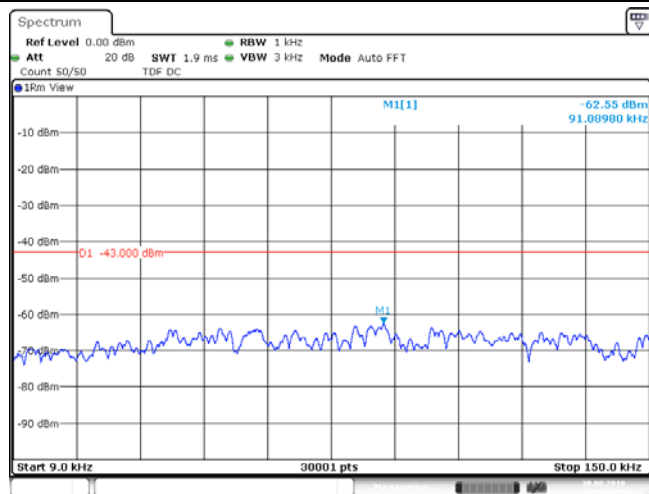
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Band25\_20MHz\_QPSK\_26140\_1RB#0



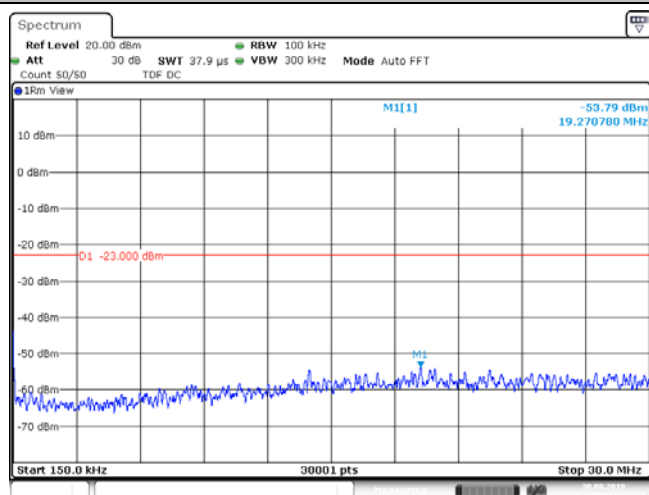
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Band25\_20MHz\_QPSK\_26365\_1RB#0



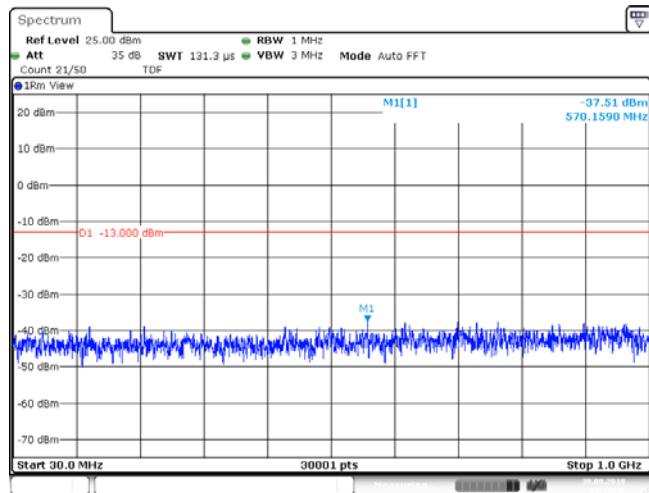
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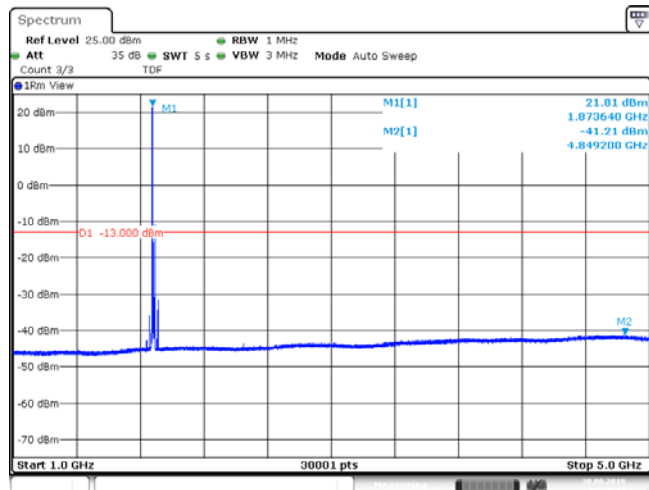
Date: 30.AUG.2019 09:17:34

Band25\_20MHz\_QPSK\_26365\_1RB#0



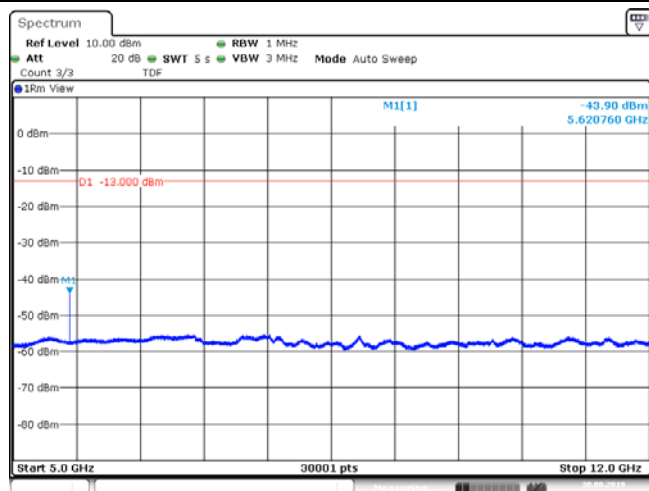
Date: 30.AUG.2019 09:17:46

Band25\_20MHz\_QPSK\_26365\_1RB#0



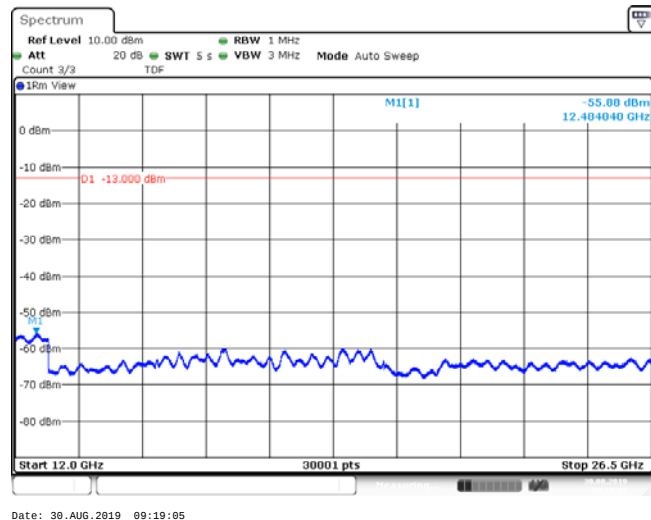
Date: 30.AUG.2019 09:18:13

Band25\_20MHz\_QPSK\_26365\_1RB#0



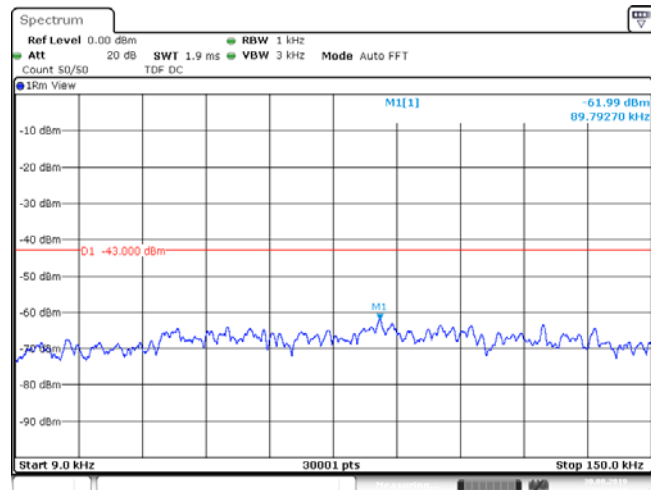
Date: 30.AUG.2019 09:18:39

Band25\_20MHz\_QPSK\_26365\_1RB#0



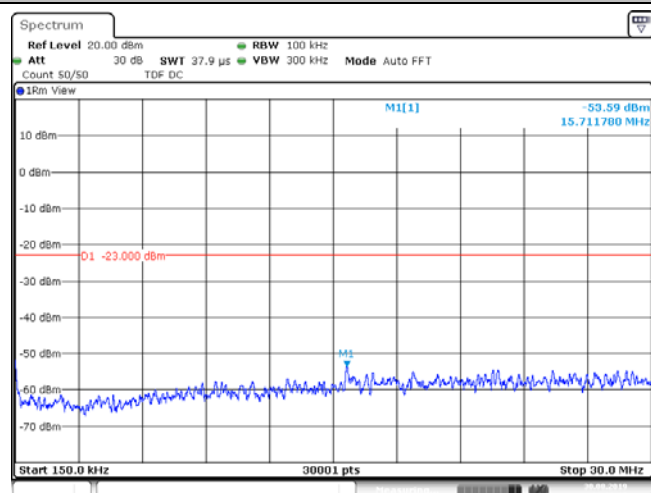
Date: 30.AUG.2019 09:19:05

Band25\_20MHz\_QPSK\_26590\_1RB#0



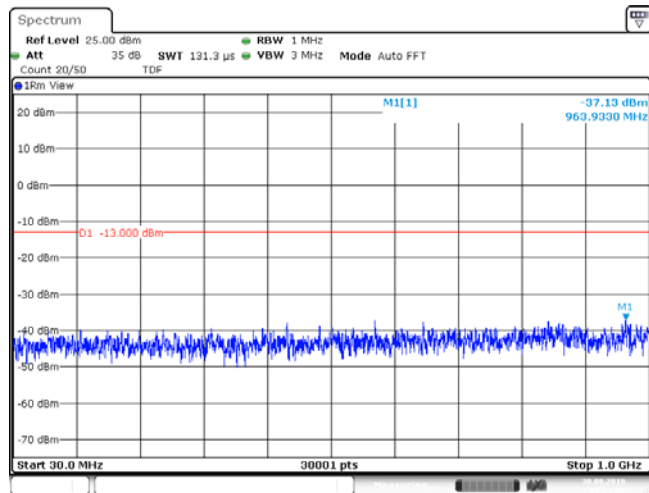
Date: 30.AUG.2019 09:21:07

Band25\_20MHz\_QPSK\_26590\_1RB#0



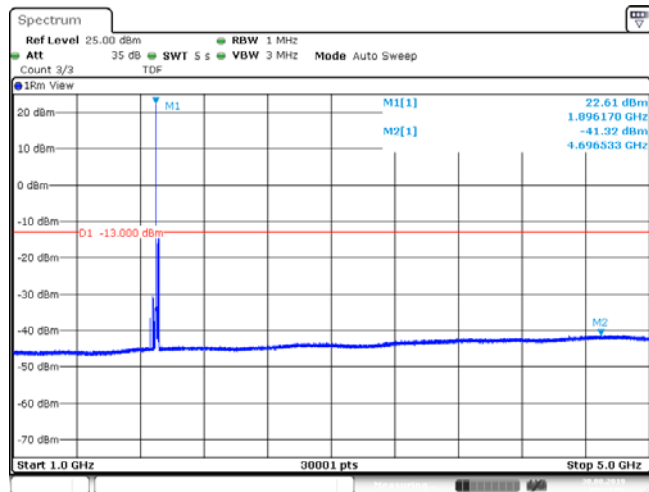
Date: 30.AUG.2019 09:21:17

Band25\_20MHz\_QPSK\_26590\_1RB#0



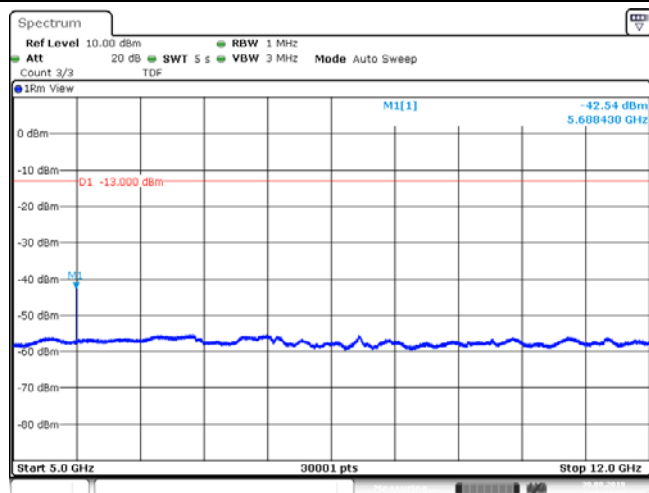
Date: 30.AUG.2019 09:21:28

Band25\_20MHz\_QPSK\_26590\_1RB#0



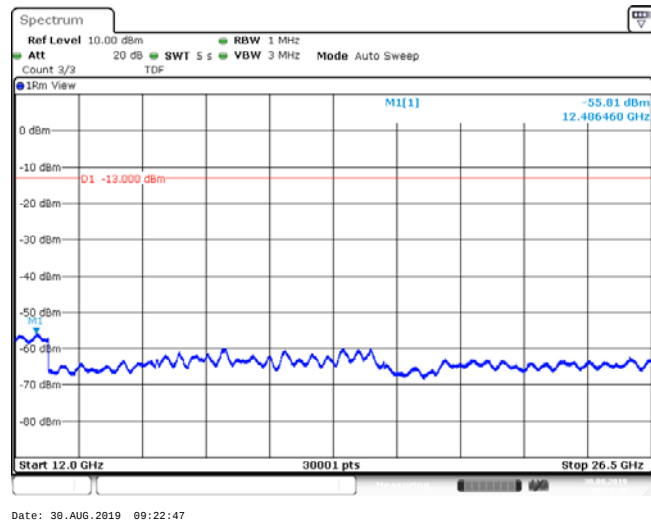
Date: 30.AUG.2019 09:21:55

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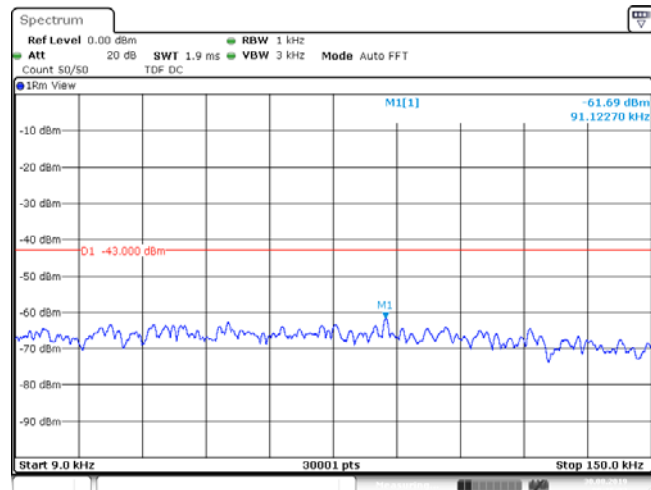
Date: 30.AUG.2019 09:22:21

Band25\_20MHz\_QPSK\_26590\_1RB#0



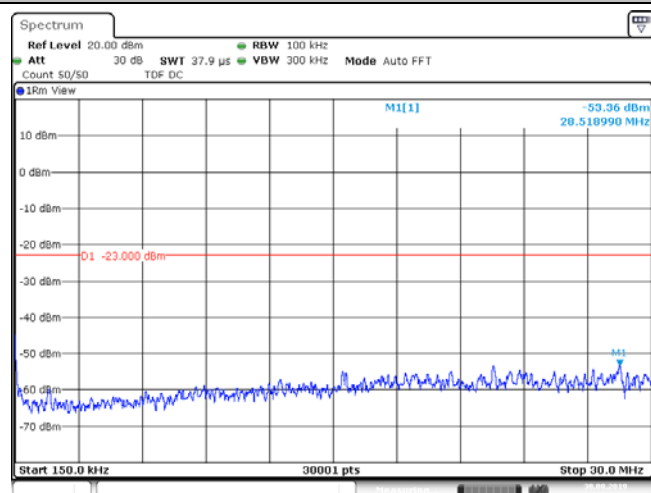
Date: 30.AUG.2019 09:22:47

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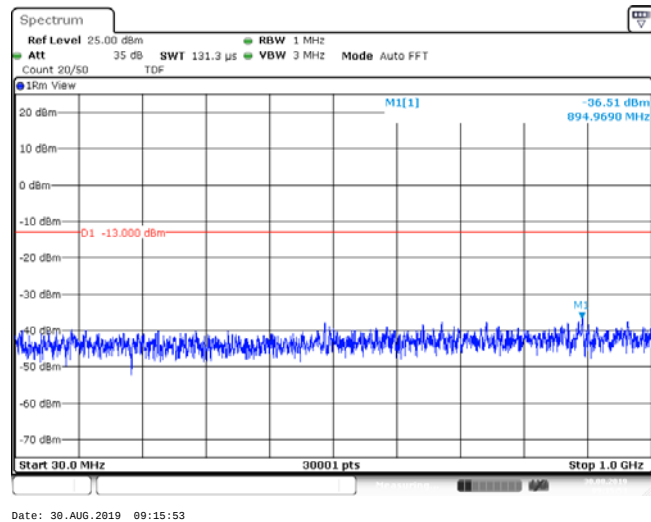
Date: 30.AUG.2019 09:15:32

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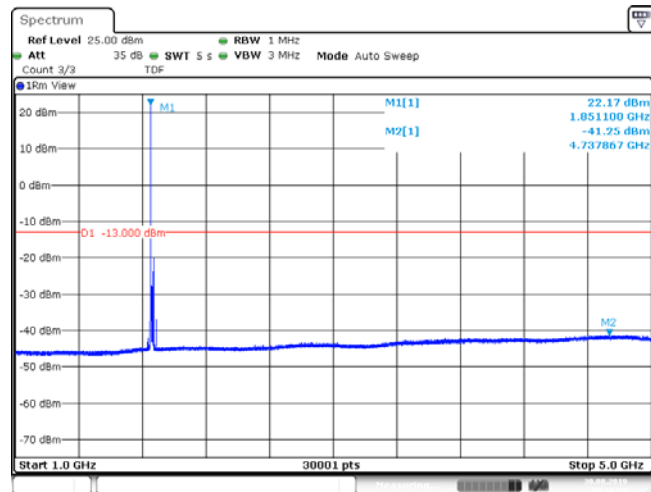
Date: 30.AUG.2019 09:15:42

Band25\_20MHz\_16QAM\_26140\_1RB#0



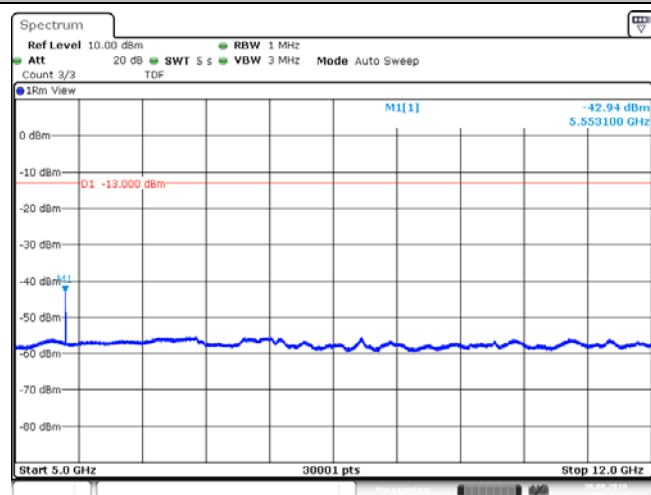
Date: 30.AUG.2019 09:15:53

Band25\_20MHz\_16QAM\_26140\_1RB#0



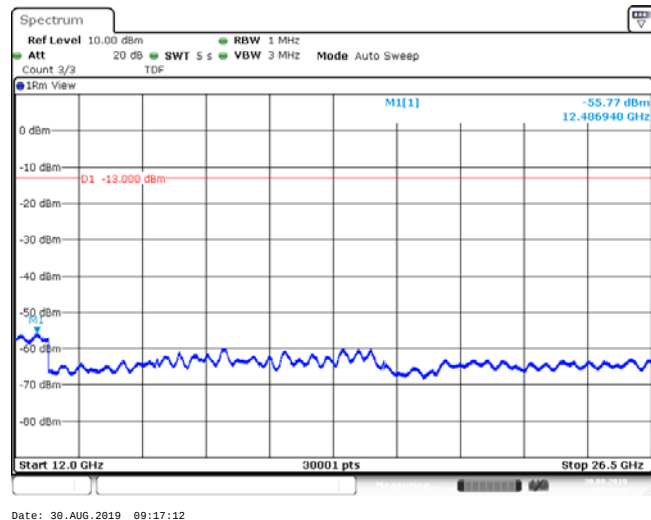
Date: 30.AUG.2019 09:16:20

Band25\_20MHz\_16QAM\_26140\_1RB#0



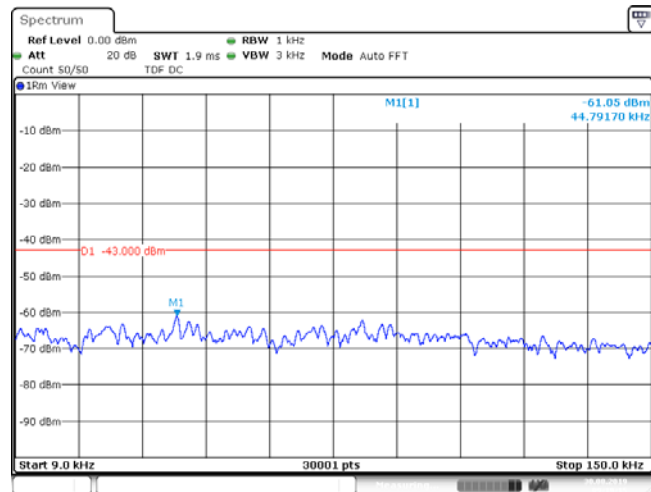
Date: 30.AUG.2019 09:16:46

Band25\_20MHz\_16QAM\_26140\_1RB#0



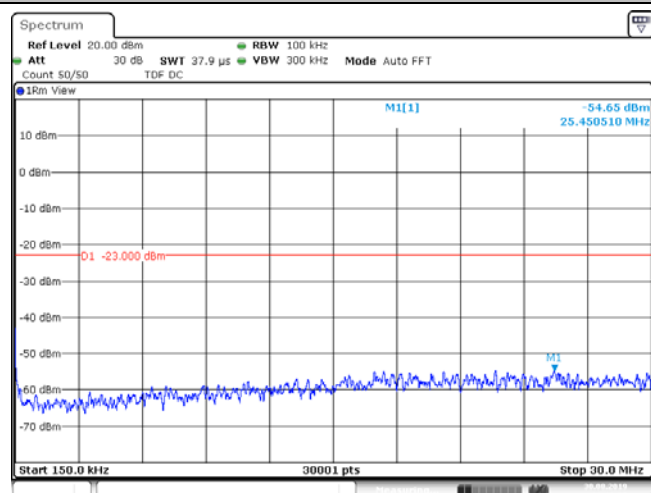
Date: 30.AUG.2019 09:17:12

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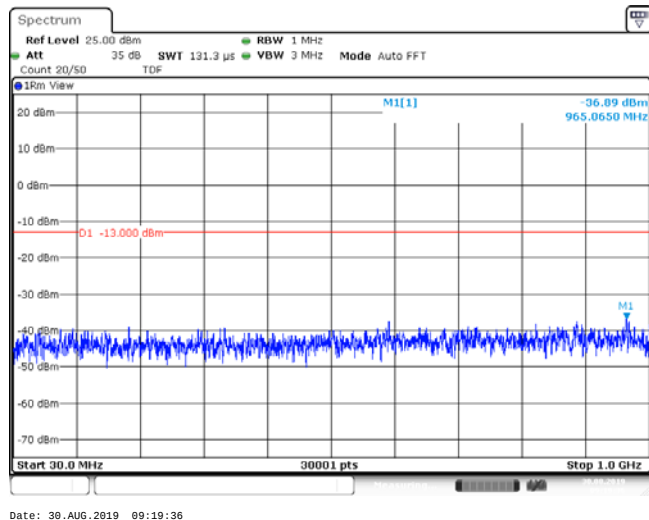
Date: 30.AUG.2019 09:19:15

Band25\_20MHz\_16QAM\_26365\_1RB#0



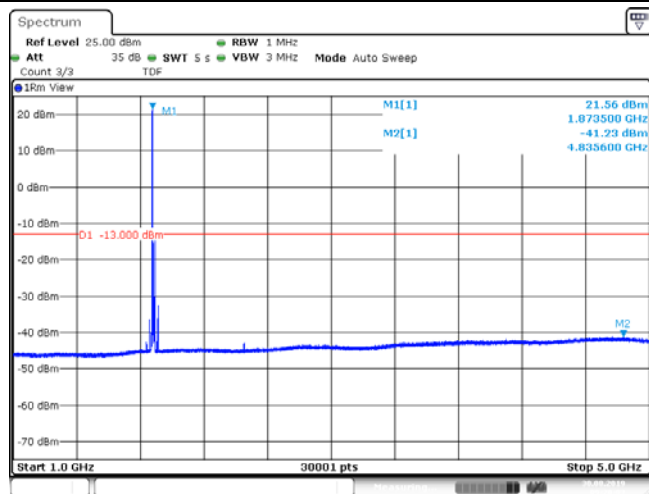
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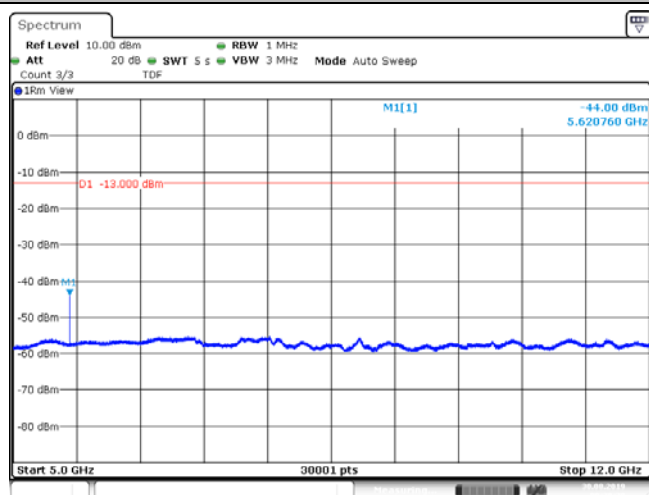
Date: 30.AUG.2019 09:19:36

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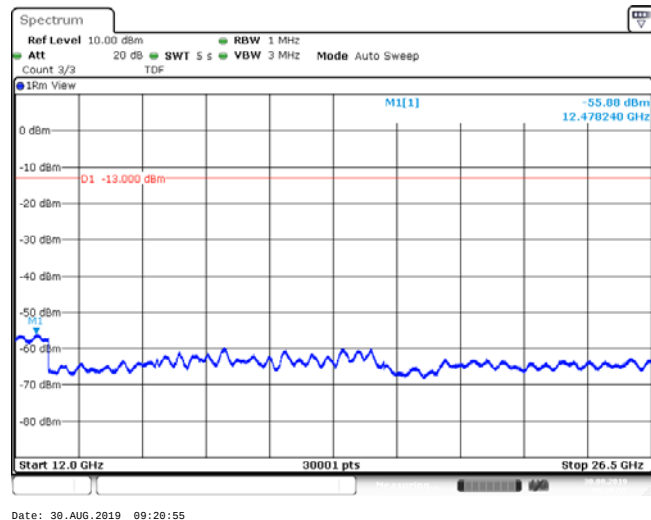
Date: 30.AUG.2019 09:20:03

Band25\_20MHz\_16QAM\_26365\_1RB#0



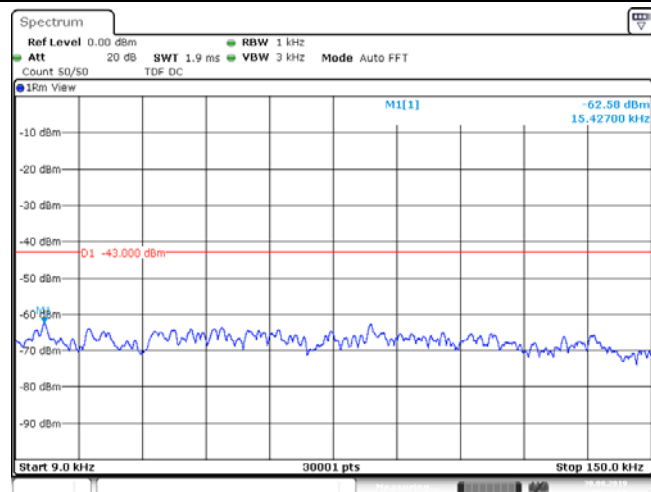
Date: 30.AUG.2019 09:20:29

Band25\_20MHz\_16QAM\_26365\_1RB#0



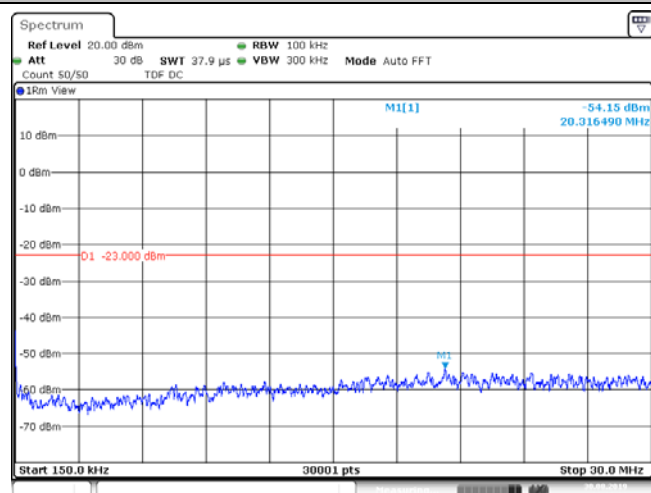
Date: 30.AUG.2019 09:20:55

Band25\_20MHz\_16QAM\_26590\_1RB#0



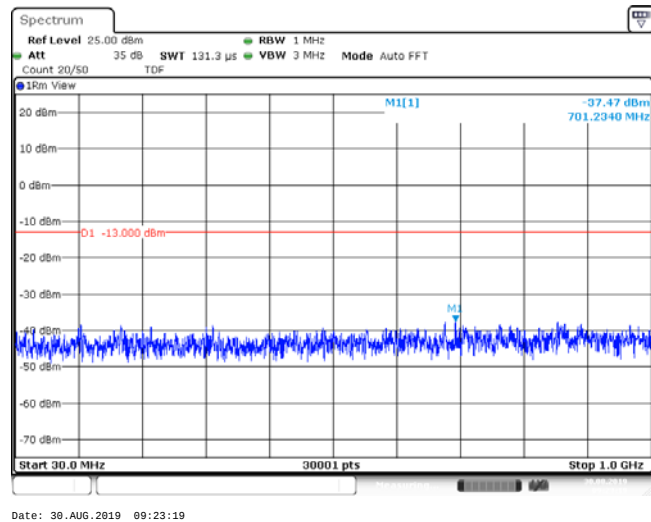
Date: 30.AUG.2019 09:22:58

Band25\_20MHz\_16QAM\_26590\_1RB#0

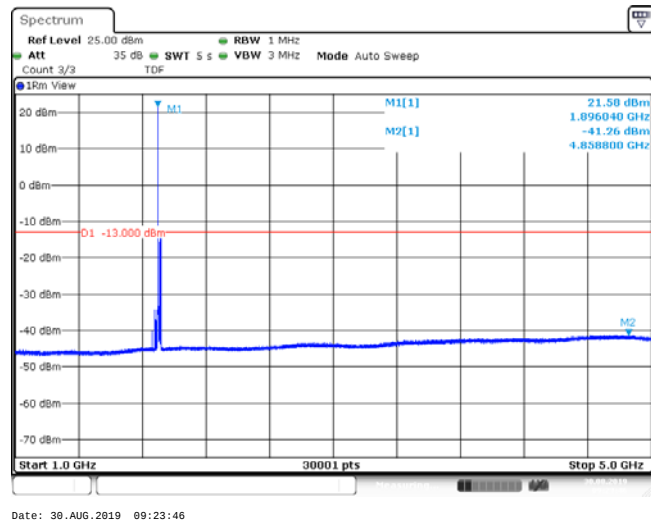


Date: 30.AUG.2019 09:23:07

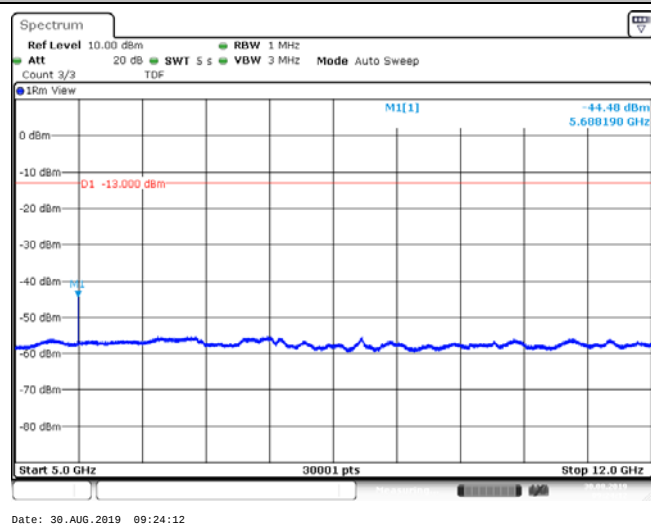
Band25\_20MHz\_16QAM\_26590\_1RB#0



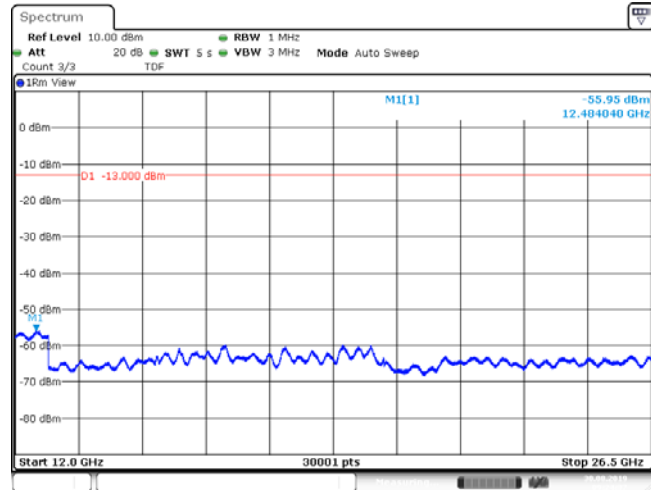
Band25\_20MHz\_16QAM\_26590\_1RB#0



Band25\_20MHz\_16QAM\_26590\_1RB#0



Band25\_20MHz\_16QAM\_26590\_1RB#0



Date: 30.AUG.2019 09:24:37

## Appendix F: Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band25  | 1.4MHz    | QPSK       | 26365   | 6RB#0        | VL            | NT               | 6.41           | 0.003405        | ±2.5        | PASS    |
| Band25  | 1.4MHz    | QPSK       | 26365   | 6RB#0        | VN            | NT               | 7.35           | 0.003904        | ±2.5        | PASS    |
| Band25  | 1.4MHz    | QPSK       | 26365   | 6RB#0        | VH            | NT               | -5.31          | -0.002821       | ±2.5        | PASS    |
| Band25  | 3MHz      | QPSK       | 26365   | 15RB#0       | VL            | NT               | 3.63           | 0.001928        | ±2.5        | PASS    |
| Band25  | 3MHz      | QPSK       | 26365   | 15RB#0       | VN            | NT               | 4.92           | 0.002614        | ±2.5        | PASS    |
| Band25  | 3MHz      | QPSK       | 26365   | 15RB#0       | VH            | NT               | 6.22           | 0.003304        | ±2.5        | PASS    |
| Band25  | 5MHz      | QPSK       | 26365   | 25RB#0       | VL            | NT               | 5.26           | 0.002794        | ±2.5        | PASS    |
| Band25  | 5MHz      | QPSK       | 26365   | 25RB#0       | VN            | NT               | 3.59           | 0.001907        | ±2.5        | PASS    |
| Band25  | 5MHz      | QPSK       | 26365   | 25RB#0       | VH            | NT               | 3.30           | 0.001753        | ±2.5        | PASS    |
| Band25  | 10MHz     | QPSK       | 26365   | 50RB#0       | VL            | NT               | -5.08          | -0.002699       | ±2.5        | PASS    |
| Band25  | 10MHz     | QPSK       | 26365   | 50RB#0       | VN            | NT               | 4.96           | 0.002635        | ±2.5        | PASS    |
| Band25  | 10MHz     | QPSK       | 26365   | 50RB#0       | VH            | NT               | 4.96           | 0.002635        | ±2.5        | PASS    |
| Band25  | 15MHz     | QPSK       | 26365   | 75RB#0       | VL            | NT               | -6.19          | -0.003288       | ±2.5        | PASS    |
| Band25  | 15MHz     | QPSK       | 26365   | 75RB#0       | VN            | NT               | 5.14           | 0.002730        | ±2.5        | PASS    |
| Band25  | 15MHz     | QPSK       | 26365   | 75RB#0       | VH            | NT               | 4.96           | 0.002635        | ±2.5        | PASS    |
| Band25  | 20MHz     | QPSK       | 26365   | 100RB#0      | VL            | NT               | 5.58           | 0.002964        | ±2.5        | PASS    |
| Band25  | 20MHz     | QPSK       | 26365   | 100RB#0      | VN            | NT               | 5.92           | 0.003145        | ±2.5        | PASS    |
| Band25  | 20MHz     | QPSK       | 26365   | 100RB#0      | VH            | NT               | -6.28          | -0.003336       | ±2.5        | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | -30              | -6.74          | -0.003580       | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | -20              | -5.26          | -0.002794       | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | 0                | 5.34           | 0.002837        | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | 10               | 5.21           | 0.002768        | ±2.5        | PASS    |
| Band25      | 1.4MHz    | QPSK       | 26365   | 6RB#0        | NV            | 20               | 7.00           | 0.003718        | ±2.5        | PASS    |
| Band25      | 3MHz      | QPSK       | 26365   | 15RB#0       | NV            | -30              | 5.59           | 0.002969        | ±2.5        | PASS    |
| Band25      | 3MHz      | QPSK       | 26365   | 15RB#0       | NV            | -20              | -4.63          | -0.002459       | ±2.5        | PASS    |
| Band25      | 3MHz      | QPSK       | 26365   | 15RB#0       | NV            | 0                | 5.04           | 0.002677        | ±2.5        | PASS    |
| Band25      | 3MHz      | QPSK       | 26365   | 15RB#0       | NV            | 10               | 6.57           | 0.003490        | ±2.5        | PASS    |
| Band25      | 3MHz      | QPSK       | 26365   | 15RB#0       | NV            | 20               | 5.74           | 0.003049        | ±2.5        | PASS    |
| Band25      | 5MHz      | QPSK       | 26365   | 25RB#0       | NV            | -30              | 4.86           | 0.002582        | ±2.5        | PASS    |
| Band25      | 5MHz      | QPSK       | 26365   | 25RB#0       | NV            | -20              | 5.31           | 0.002821        | ±2.5        | PASS    |
| Band25      | 5MHz      | QPSK       | 26365   | 25RB#0       | NV            | 0                | 6.35           | 0.003373        | ±2.5        | PASS    |
| Band25      | 5MHz      | QPSK       | 26365   | 25RB#0       | NV            | 10               | 5.04           | 0.002677        | ±2.5        | PASS    |
| Band25      | 5MHz      | QPSK       | 26365   | 25RB#0       | NV            | 20               | 5.12           | 0.002720        | ±2.5        | PASS    |
| Band25      | 10MHz     | QPSK       | 26365   | 50RB#0       | NV            | -30              | 4.23           | 0.002247        | ±2.5        | PASS    |
| Band25      | 10MHz     | QPSK       | 26365   | 50RB#0       | NV            | -20              | 4.08           | 0.002167        | ±2.5        | PASS    |
| Band25      | 10MHz     | QPSK       | 26365   | 50RB#0       | NV            | 0                | 5.09           | 0.002704        | ±2.5        | PASS    |
| Band25      | 10MHz     | QPSK       | 26365   | 50RB#0       | NV            | 10               | 4.25           | 0.002258        | ±2.5        | PASS    |

|        |       |      |       |         |    |     |       |           |      |      |
|--------|-------|------|-------|---------|----|-----|-------|-----------|------|------|
| Band25 | 10MHz | QPSK | 26365 | 50RB#0  | NV | 20  | 6.55  | 0.003479  | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | -30 | 4.71  | 0.002502  | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | -20 | 4.58  | 0.002433  | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | 0   | -5.21 | -0.002768 | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | 10  | -3.73 | -0.001981 | ±2.5 | PASS |
| Band25 | 15MHz | QPSK | 26365 | 75RB#0  | NV | 20  | 4.16  | 0.002210  | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | -30 | 3.50  | 0.001859  | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | -20 | 4.42  | 0.002348  | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | 0   | 3.46  | 0.001838  | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | 10  | -2.88 | -0.001530 | ±2.5 | PASS |
| Band25 | 20MHz | QPSK | 26365 | 100RB#0 | NV | 20  | 5.34  | 0.002837  | ±2.5 | PASS |