



Appendix F. Spectrum Plots From RB Size

| Operation Band | Bandwidth | Modulation | RB Size/Offset   | OBW99%(MHZ) |
|----------------|-----------|------------|------------------|-------------|
| Band 17        | 10MHz     | QPSK       | 1RB / Offset 0   | 0.96        |
|                |           |            | 1RB / Offset 49  | 1.00        |
|                |           |            | 25RB / Offset 13 | 4.80        |
|                |           |            | 50RB / Offset 0  | 9.08        |
|                |           | 16QAM      | 1RB / Offset 0   | 0.96        |
|                |           |            | 1RB / Offset 49  | 0.96        |
|                |           |            | 25RB / Offset 13 | 4.80        |
|                |           |            | 50RB / Offset 0  | 9.08        |
|                | 5MHz      | QPSK       | 1RB / Offset 0   | 0.48        |
|                |           |            | 1RB / Offset 24  | 0.46        |
|                |           |            | 12RB / Offset 6  | 2.26        |
|                |           |            | 25RB / Offset 0  | 4.48        |
|                |           | 16QAM      | 1RB / Offset 0   | 0.46        |
|                |           |            | 1RB / Offset 24  | 0.44        |
|                |           |            | 12RB / Offset 6  | 2.24        |
|                |           |            | 25RB / Offset 0  | 4.48        |

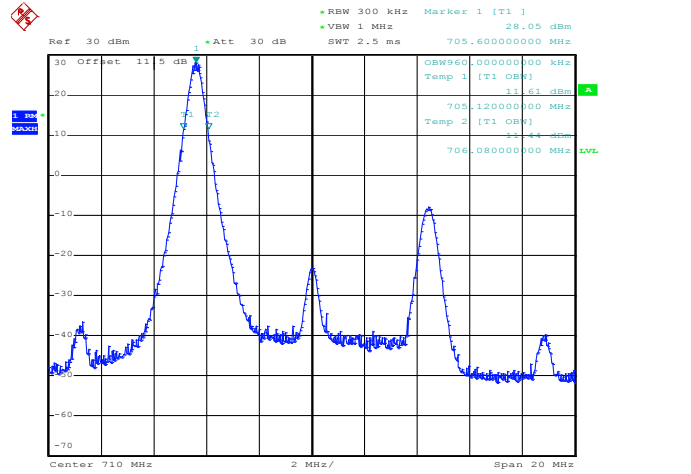


| Operation Band | Bandwidth | Modulation      | RB Size/Offset   | OBW99%(MHZ) |
|----------------|-----------|-----------------|------------------|-------------|
| Band 4         | 20MHz     | QPSK            | 1RB / Offset 0   | 2.96        |
|                |           |                 | 1RB / Offset 99  | 2.96        |
|                |           |                 | 50RB / Offset 25 | 10.40       |
|                |           |                 | 100RB / Offset 0 | 18.72       |
|                |           | 16QAM           | 1RB / Offset 0   | 2.96        |
|                |           |                 | 1RB / Offset 99  | 3.20        |
|                |           |                 | 50RB / Offset 25 | 10.24       |
|                |           |                 | 100RB / Offset 0 | 18.72       |
|                | 15MHz     | QPSK            | 1RB / Offset 0   | 1.08        |
|                |           |                 | 1RB / Offset 74  | 1.08        |
|                |           |                 | 36RB / Offset 18 | 6.78        |
|                |           |                 | 75RB / Offset 0  | 13.62       |
|                |           | 16QAM           | 1RB / Offset 0   | 1.14        |
|                |           |                 | 1RB / Offset 74  | 1.08        |
|                |           |                 | 36RB / Offset 18 | 6.78        |
|                |           |                 | 75RB / Offset 0  | 13.56       |
|                | 10MHz     | QPSK            | 1RB / Offset 0   | 1.00        |
|                |           |                 | 1RB / Offset 49  | 0.96        |
|                |           |                 | 25RB / Offset 13 | 4.84        |
|                |           |                 | 50RB / Offset 0  | 9.12        |
|                |           | 16QAM           | 1RB / Offset 0   | 0.96        |
|                |           |                 | 1RB / Offset 49  | 0.96        |
|                |           |                 | 25RB / Offset 13 | 4.88        |
|                |           |                 | 50RB / Offset 0  | 9.12        |
|                | 5MHz      | QPSK            | 1RB / Offset 0   | 0.48        |
|                |           |                 | 1RB / Offset 24  | 0.44        |
|                |           |                 | 12RB / Offset 6  | 2.28        |
|                |           |                 | 25RB / Offset 0  | 4.52        |
|                |           | 16QAM           | 1RB / Offset 0   | 0.48        |
|                |           |                 | 1RB / Offset 24  | 0.48        |
|                |           |                 | 12RB / Offset 6  | 2.28        |
|                |           |                 | 25RB / Offset 0  | 4.52        |
| 3MHz           | QPSK      | 1RB / Offset 0  | 0.41             |             |
|                |           | 1RB / Offset 14 | 0.41             |             |
|                |           | 8RB / Offset 4  | 1.57             |             |
|                |           | 15RB / Offset 0 | 2.74             |             |
|                | 16QAM     | 1RB / Offset 0  | 0.42             |             |
|                |           | 1RB / Offset 14 | 0.42             |             |
|                |           | 8RB / Offset 4  | 1.58             |             |
|                |           | 15RB / Offset 0 | 2.74             |             |
| 1.4MHz         | QPSK      | 1RB / Offset 0  | 0.27             |             |
|                |           | 1RB / Offset 5  | 0.27             |             |
|                |           | 3RB / Offset 2  | 0.64             |             |
|                |           | 6RB / Offset 0  | 1.10             |             |
|                | 16QAM     | 1RB / Offset 0  | 0.27             |             |
|                |           | 1RB / Offset 5  | 0.27             |             |
|                |           | 3RB / Offset 2  | 0.60             |             |
|                |           | 6RB / Offset 0  | 1.10             |             |



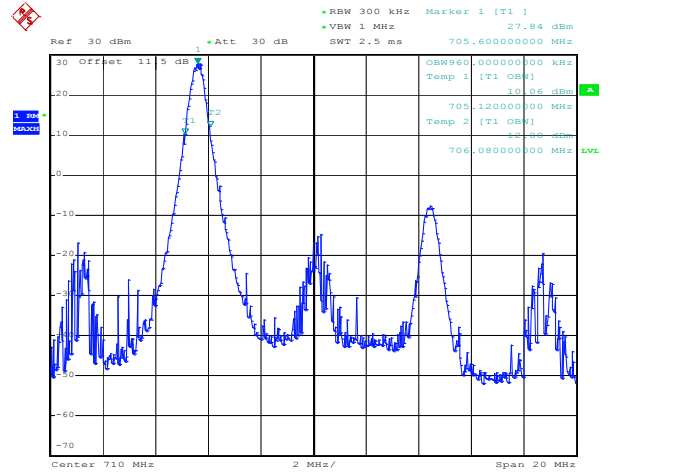
Band 17

Bandwidth 10M



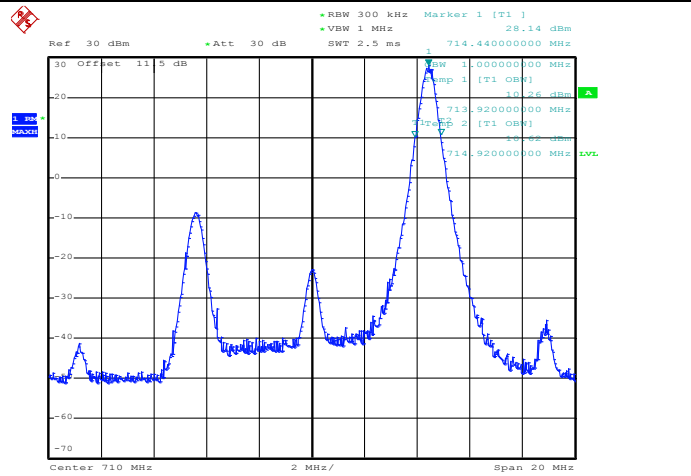
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1RB Size, RB Offset 0, QPSK



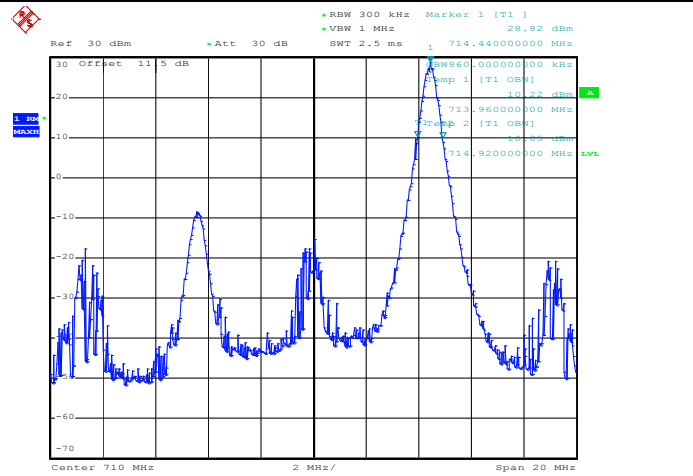
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1RB Size, RB Offset 0, 16QAM



Date: 21.DEC.2011 08:11:20

1RB Size, RB Offset 49, QPSK



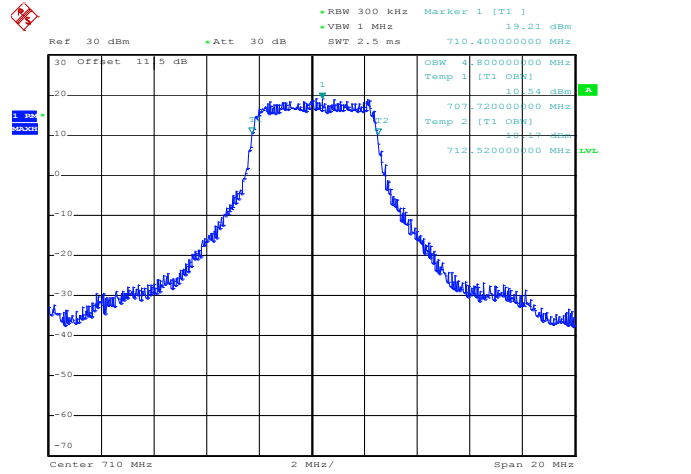
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1RB Size, RB Offset 49, 16QAM



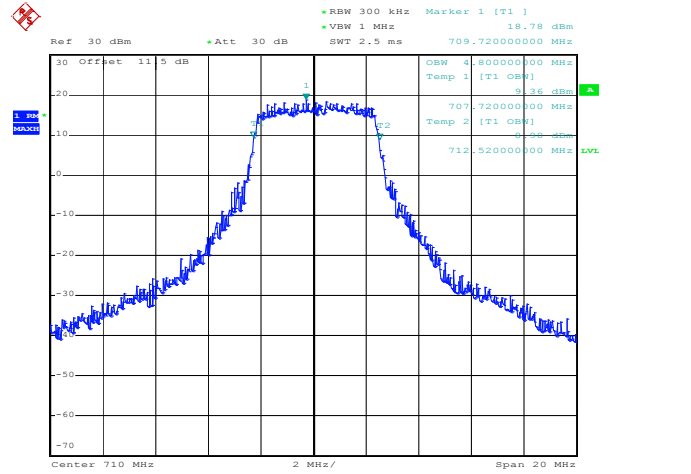
Band 17

Bandwidth 10M



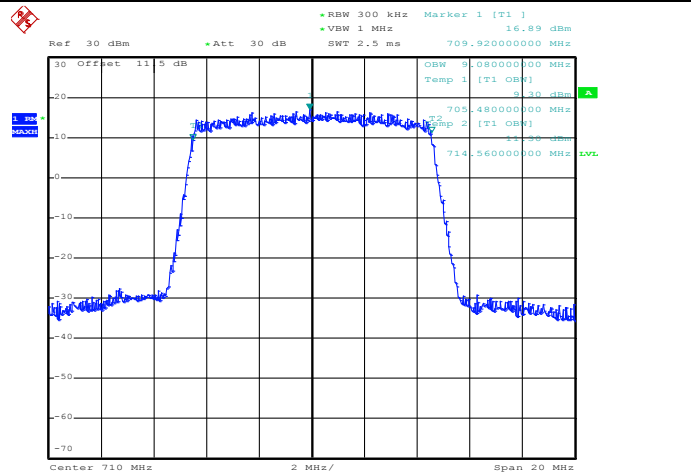
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25RB Size, RB Offset 13, QPSK



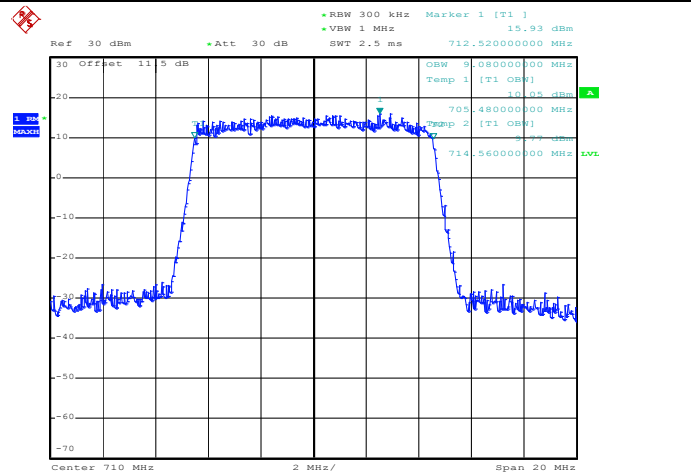
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25RB Size, RB Offset 13, 16QAM



Date: 21.DEC.2011 08:12:56

50RB Size, RB Offset 0, QPSK

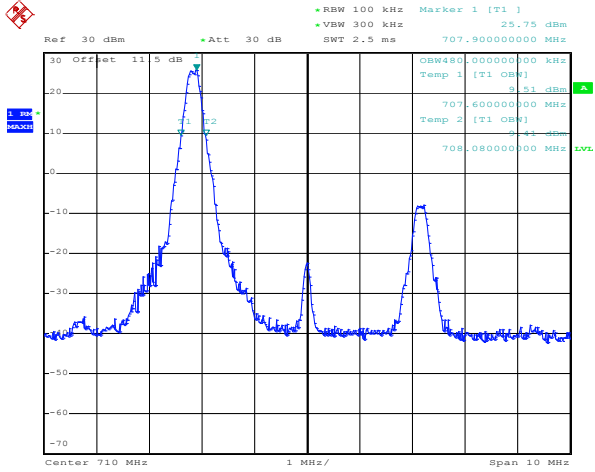


Date: 21.DEC.2011 08:13:14

50RB Size, RB Offset 0, 16QAM

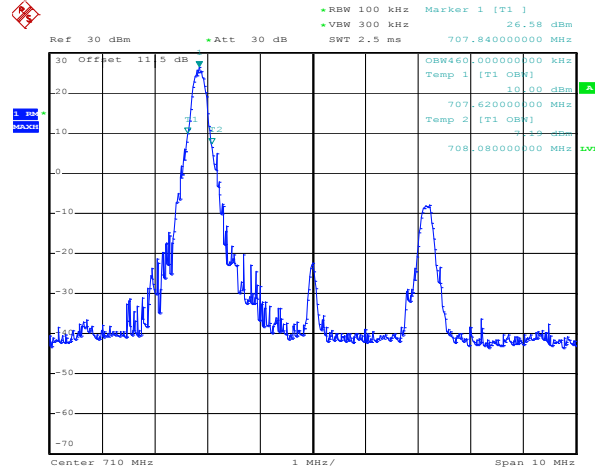


Band 17  
Bandwidth 5M



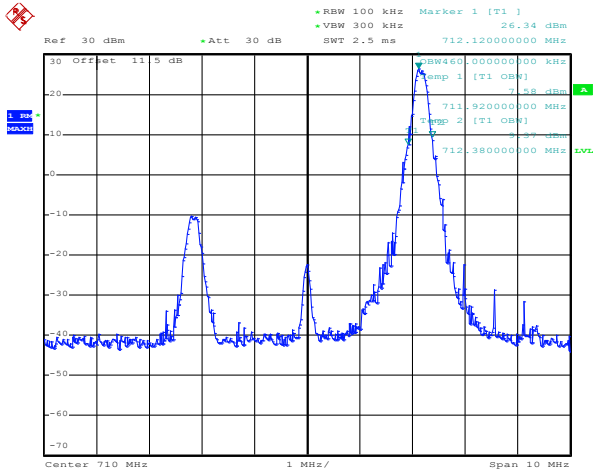
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1RB Size, RB Offset 0, QPSK



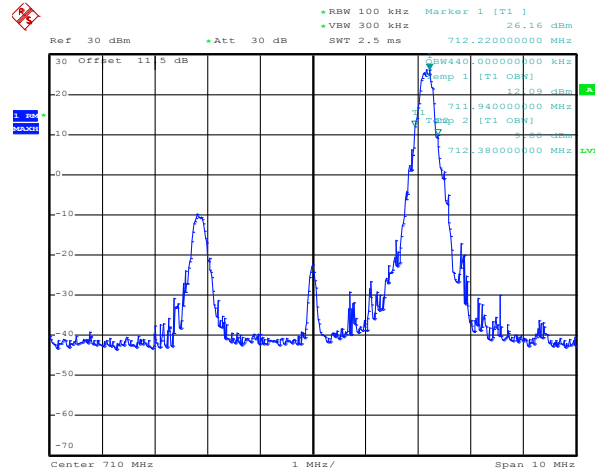
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1RB Size, RB Offset 0, 16QAM



Date: 21.DEC.2011 08:31:01

1RB Size, RB Offset 24, QPSK

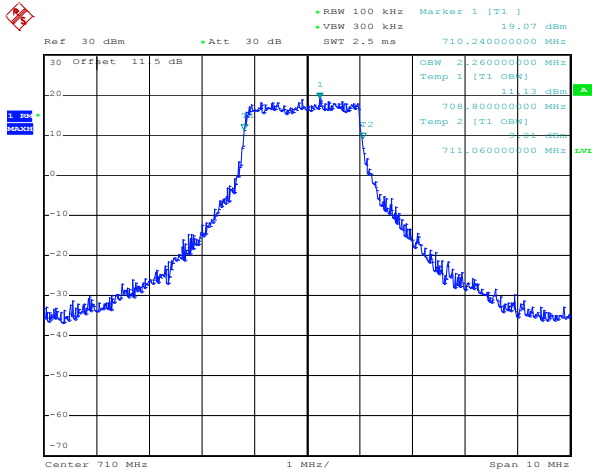


Date: 21.DEC.2011 08:31:16

1RB Size, RB Offset 24, 16QAM

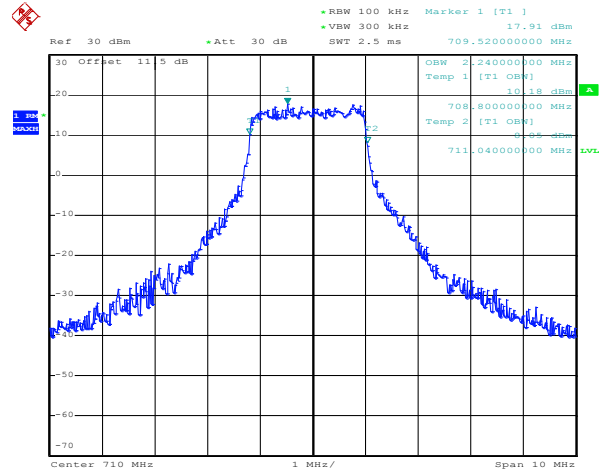


Band 17
Bandwidth 5M



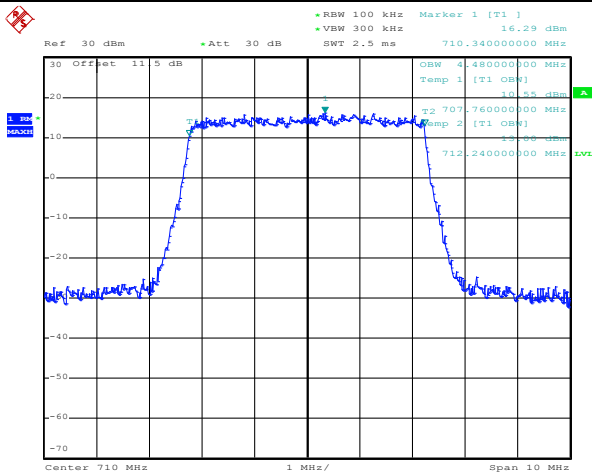
Date: 21.DEC.2011 08:31:51

12RB Size, RB Offset 6, QPSK



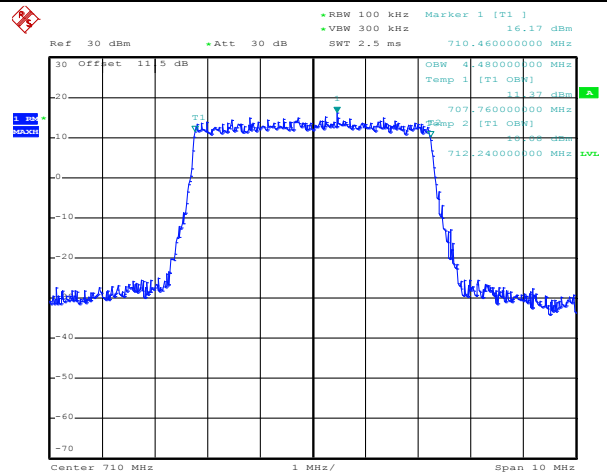
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12RB Size, RB Offset 6, 16QAM



Date: 21.DEC.2011 08:32:46

25RB Size, RB Offset 0, QPSK



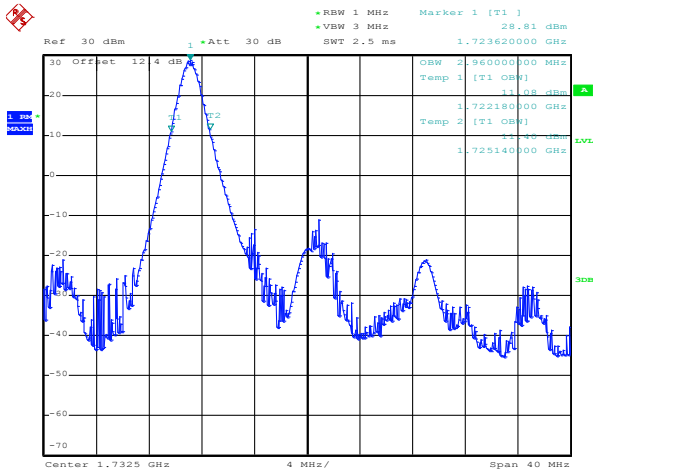
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25RB Size, RB Offset 0, 16QAM



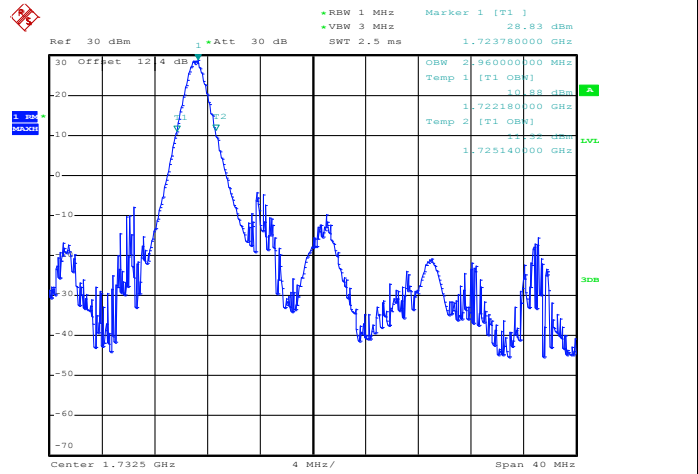
Band 4

Bandwidth 20M



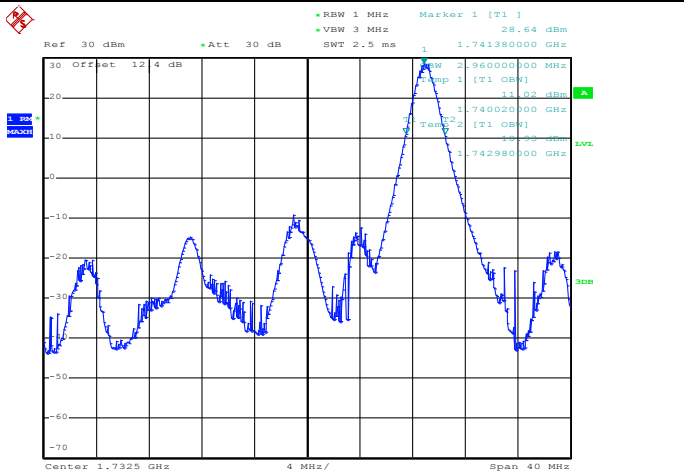
Date: 6.JAN.2012 14:24:12

1RB Size, RB Offset 0, QPSK



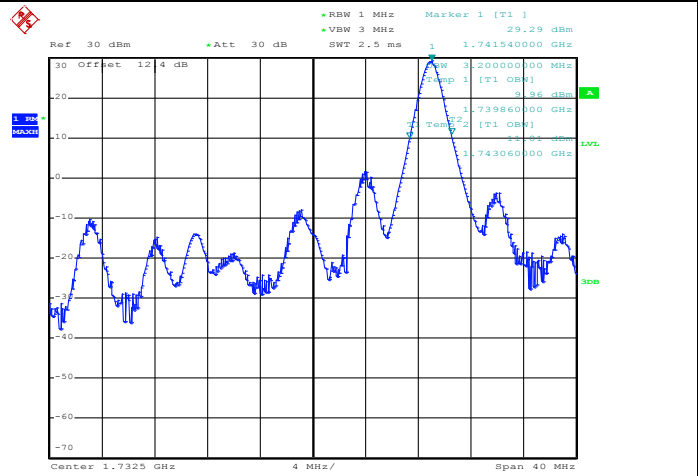
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1RB Size, RB Offset 0, 16QAM



Date: 6.JAN.2012 14:24:56

1RB Size, RB Offset 99, QPSK



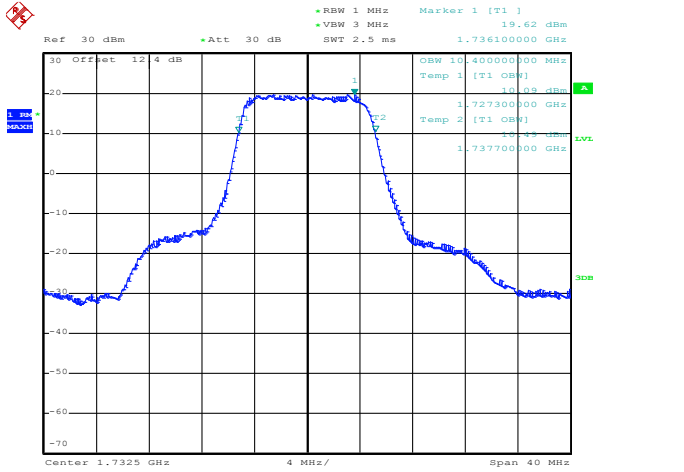
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1RB Size, RB Offset 99, 16QAM



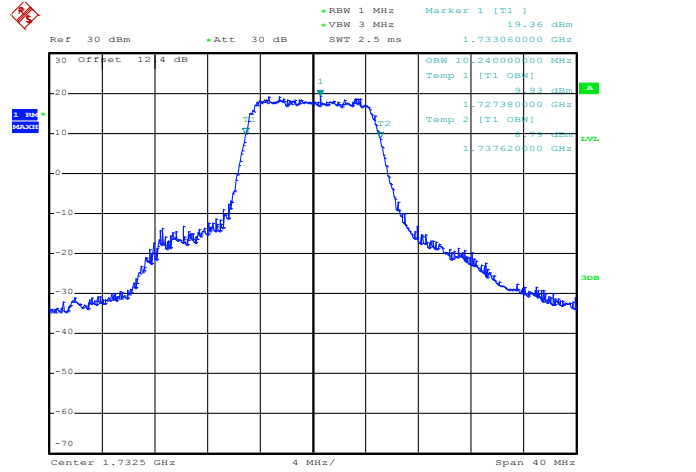
Band 4

Bandwidth 20M



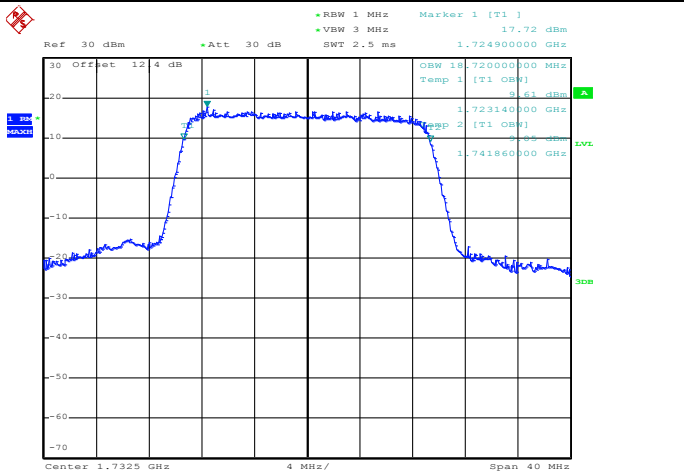
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50RB Size, RB Offset 25, QPSK



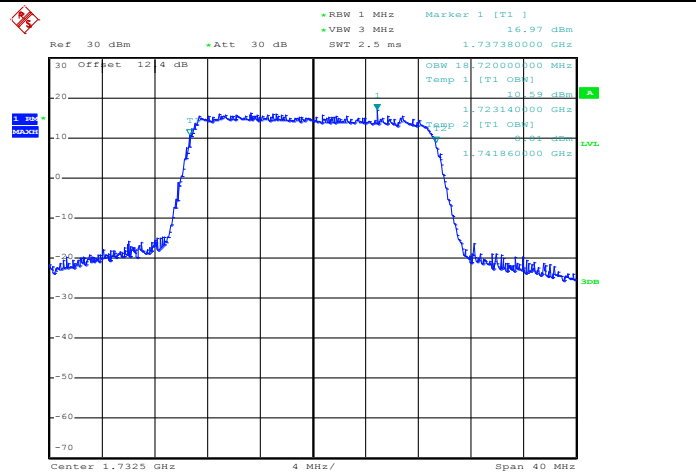
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50RB Size, RB Offset 25, 16QAM



Date: 6.JAN.2012 14:40:02

100RB Size, RB Offset 0, QPSK



Date: 6.JAN.2012 14:40:24

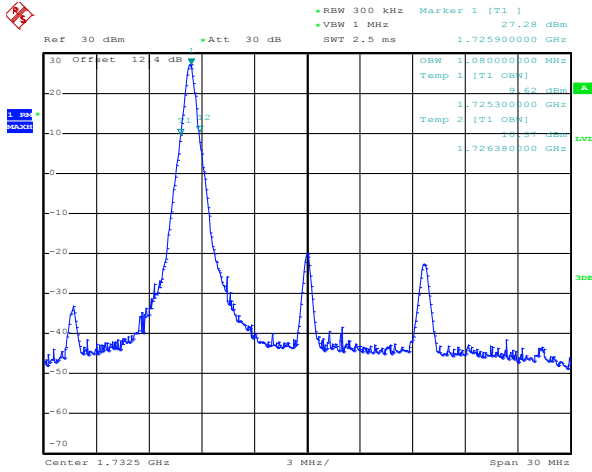
100RB Size, RB Offset 0, 16QAM





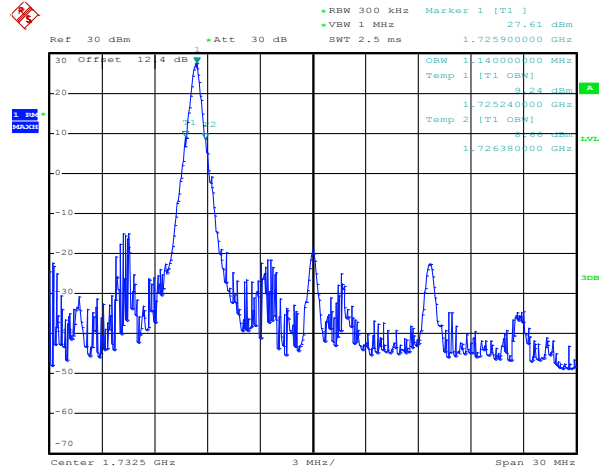
Band 4

Bandwidth 15M



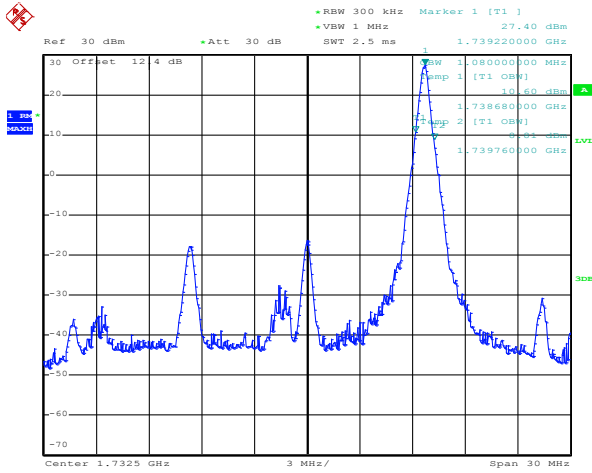
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1RB Size, RB Offset 0, QPSK



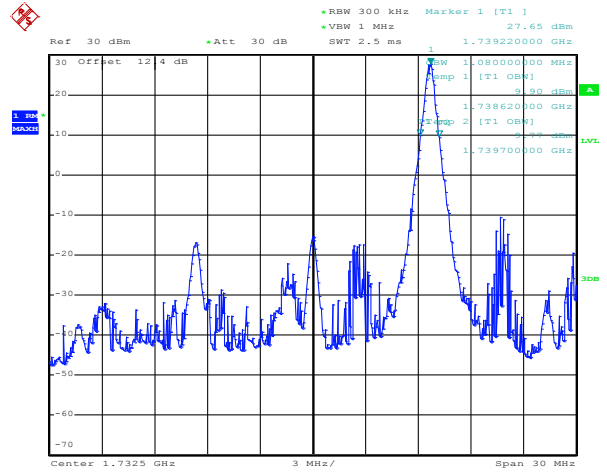
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1RB Size, RB Offset 0, 16QAM



Date: 10.JAN.2012 11:54:24

1RB Size, RB Offset 74, QPSK



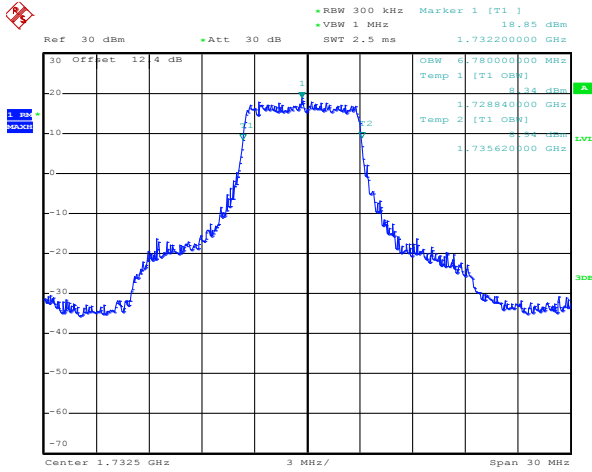
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1RB Size, RB Offset 74, 16QAM



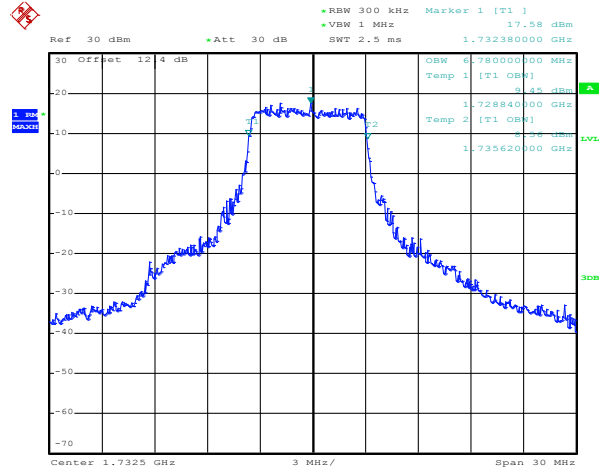
Band 4

Bandwidth 15M



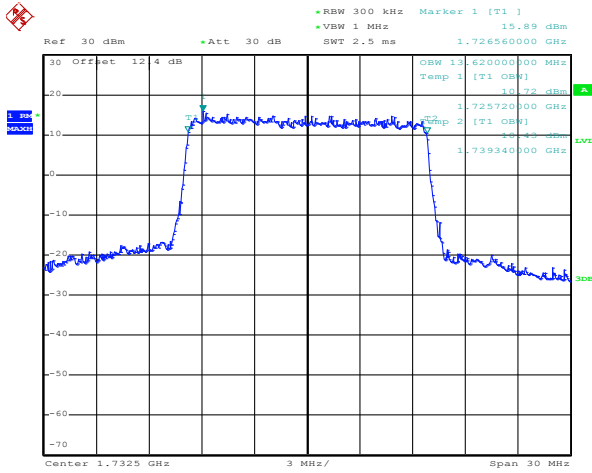
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36RB Size, RB Offset 18, QPSK



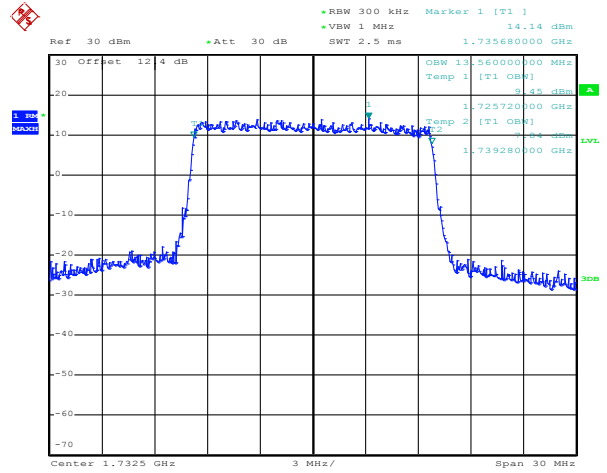
Date: 10.JAN.2012 11:55:31

36RB Size, RB Offset 18, 16QAM



Date: 10.JAN.2012 11:55:59

75RB Size, RB Offset 0, QPSK



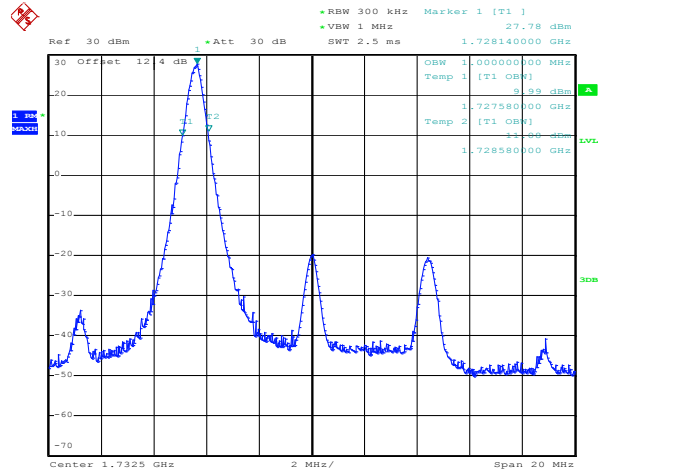
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75RB Size, RB Offset 0, 16QAM



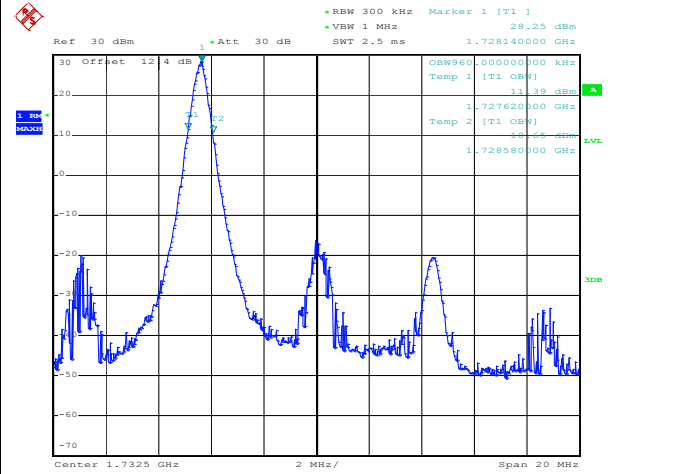
Band 4

Bandwidth 10M



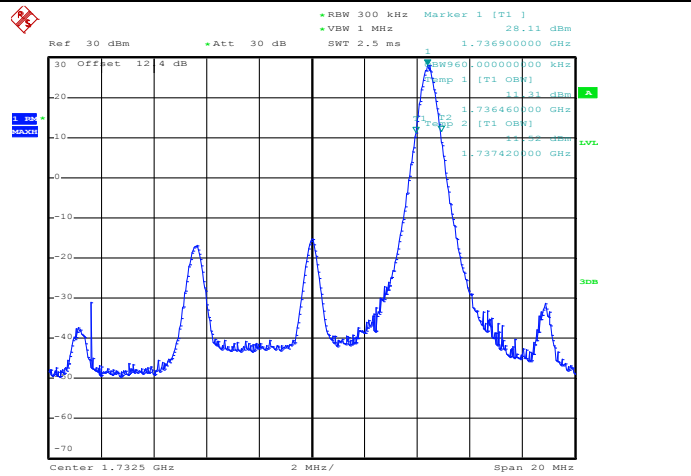
Date: 20.DEC.2011 14:19:30

1RB Size, RB Offset 0, QPSK



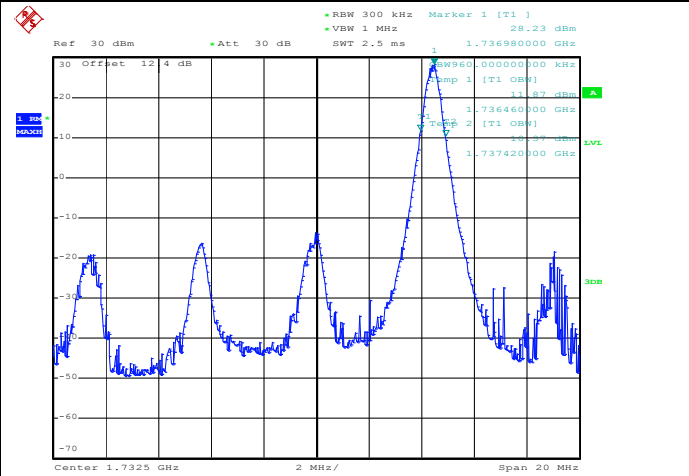
Date: 20.DEC.2011 14:18:59

1RB Size, RB Offset 0, 16QAM



Date: 20.DEC.2011 14:20:04

1RB Size, RB Offset 49, QPSK



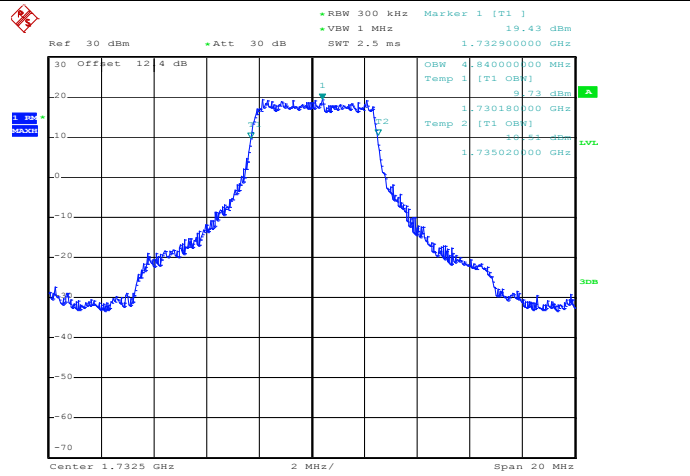
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1RB Size, RB Offset 49, 16QAM



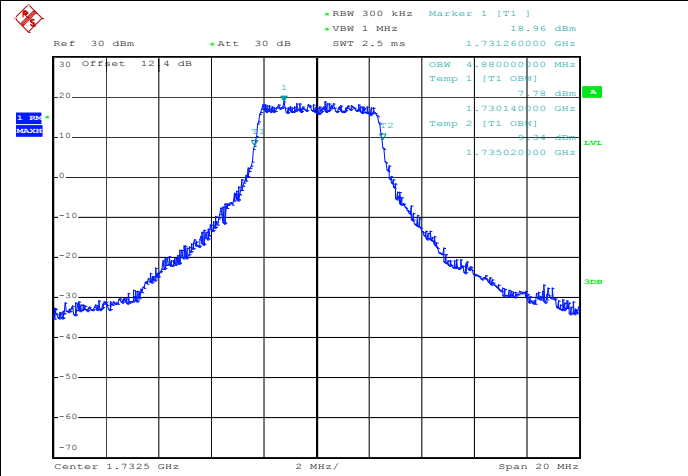
Band 4

Bandwidth 10M



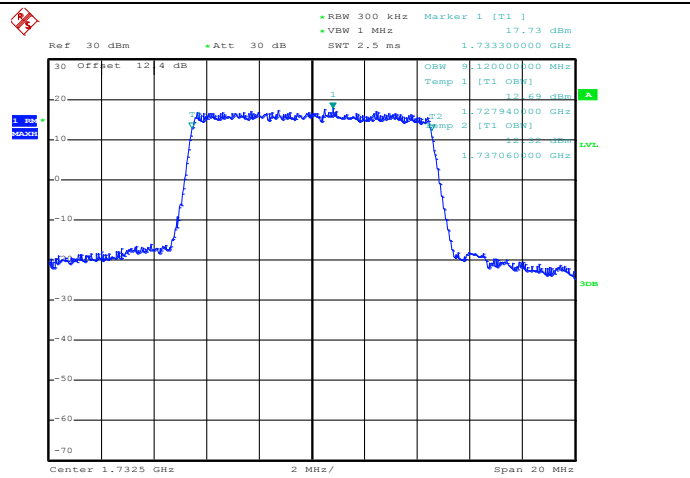
Date: 20.DEC.2011 14:21:54

25RB Size, RB Offset 13, QPSK



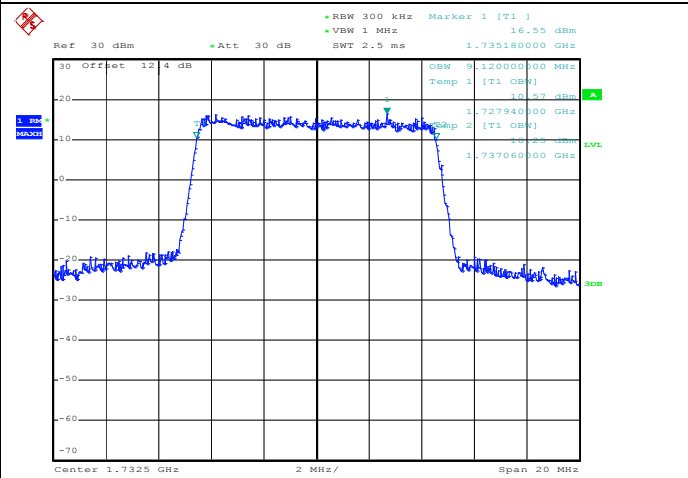
Date: 20.DEC.2011 14:21:21

25RB Size, RB Offset 13, 16QAM



Date: 20.DEC.2011 14:17:49

50RB Size, RB Offset 0, QPSK



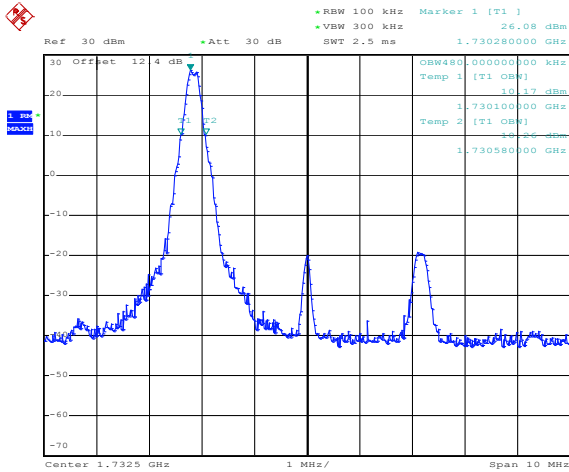
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50RB Size, RB Offset 0, 16QAM



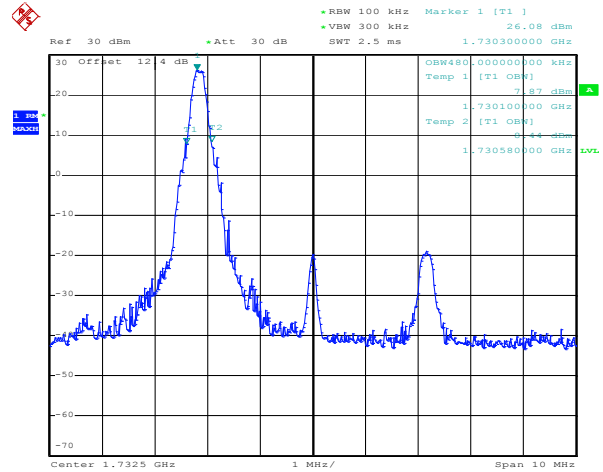
Band 4

Bandwidth 5M



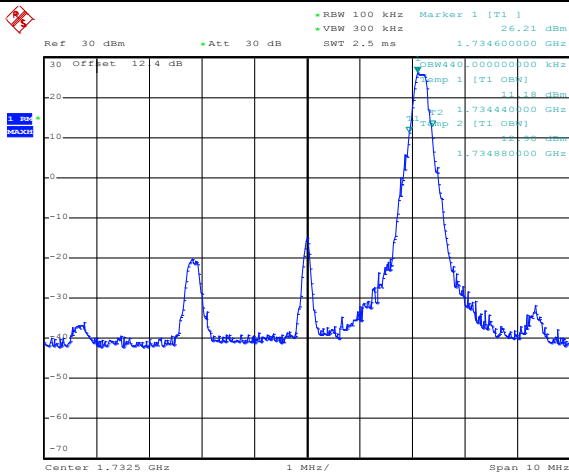
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1RB Size, RB Offset 0, QPSK



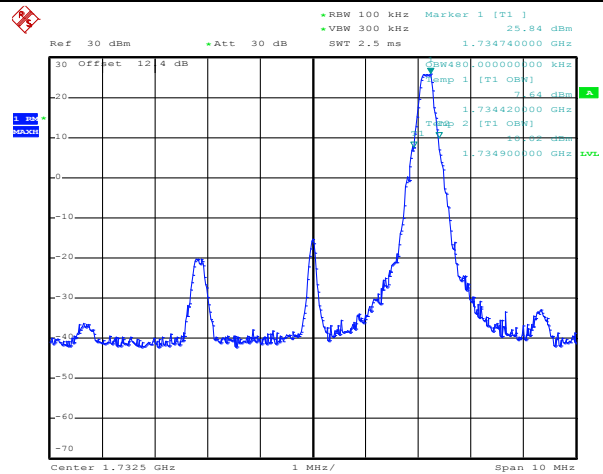
Date: 21.DEC.2011 01:27:56

1RB Size, RB Offset 0, 16QAM



Date: 21.DEC.2011 01:30:14

1RB Size, RB Offset 24, QPSK



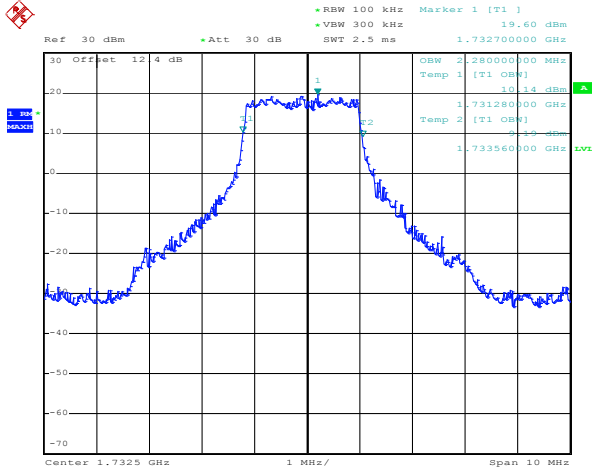
Date: 21.DEC.2011 01:29:07

1RB Size, RB Offset 24, 16QAM



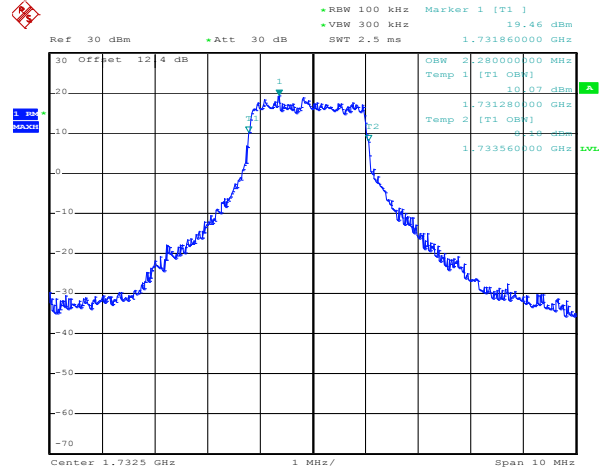
Band 4

Bandwidth 5M



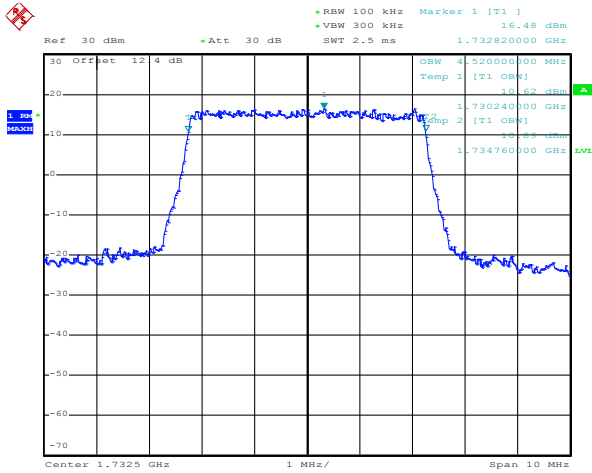
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12RB Size, RB Offset 6, QPSK



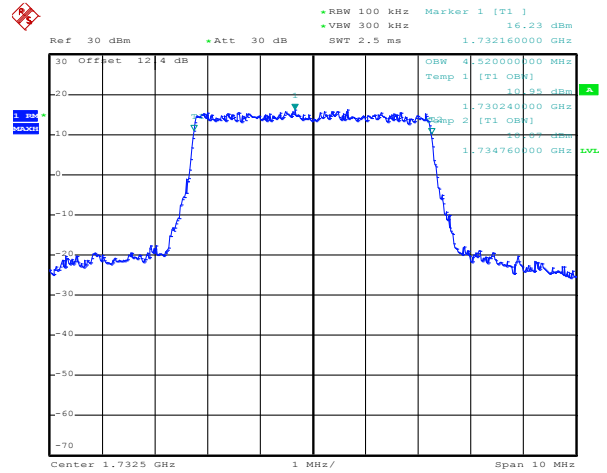
Date: 21.DEC.2011 01:31:23

12RB Size, RB Offset 6, 16QAM



Date: 21.DEC.2011 01:26:14

25RB Size, RB Offset 0, QPSK



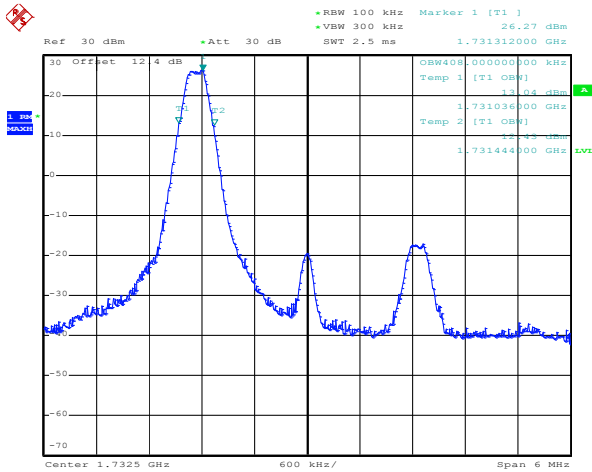
Date: 21.DEC.2011 01:27:34

25RB Size, RB Offset 0, 16QAM



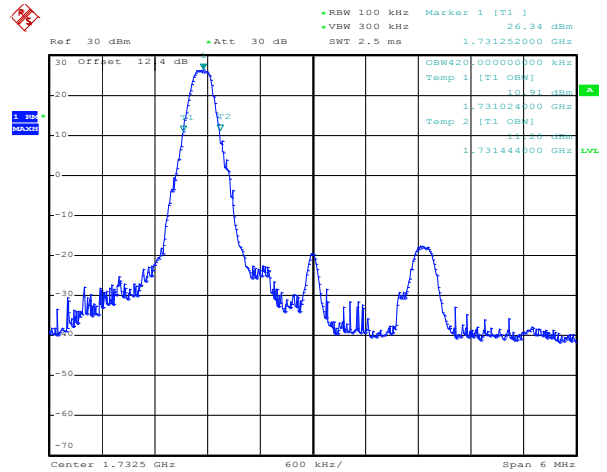
Band 4

Bandwidth 3M



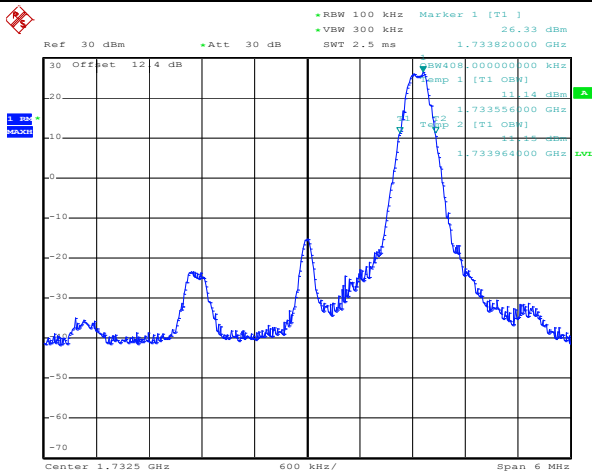
Date: 21.DEC.2011 03:03:18

1RB Size, RB Offset 0, QPSK



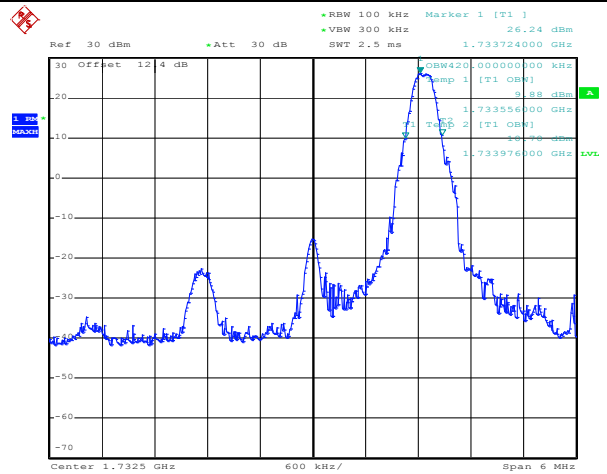
Date: 21.DEC.2011 03:04:10

1RB Size, RB Offset 0, 16QAM



Date: 21.DEC.2011 03:05:51

1RB Size, RB Offset 14, QPSK



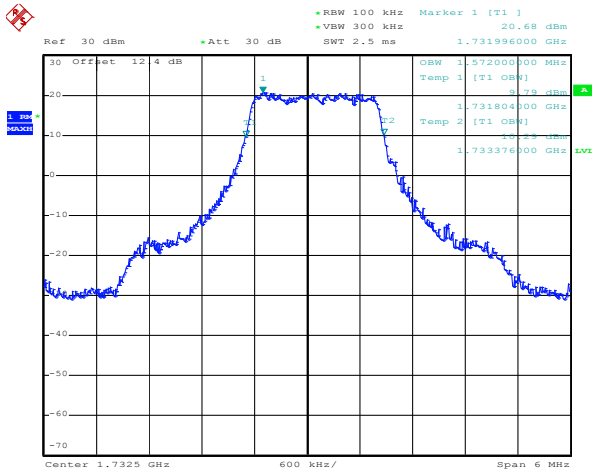
Date: 21.DEC.2011 03:06:25

1RB Size, RB Offset 14, 16QAM



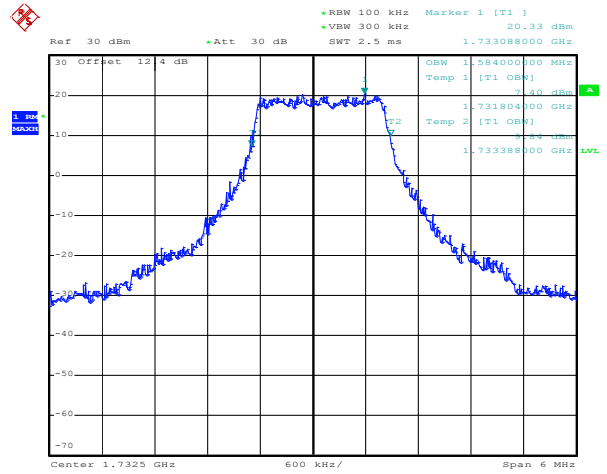
Band 4

Bandwidth 3M



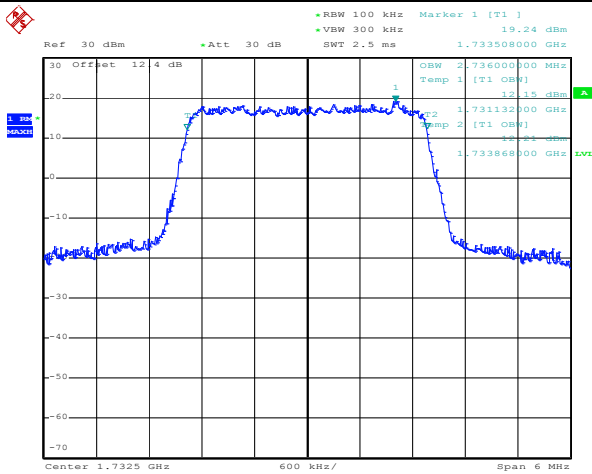
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8RB Size, RB Offset 4, QPSK



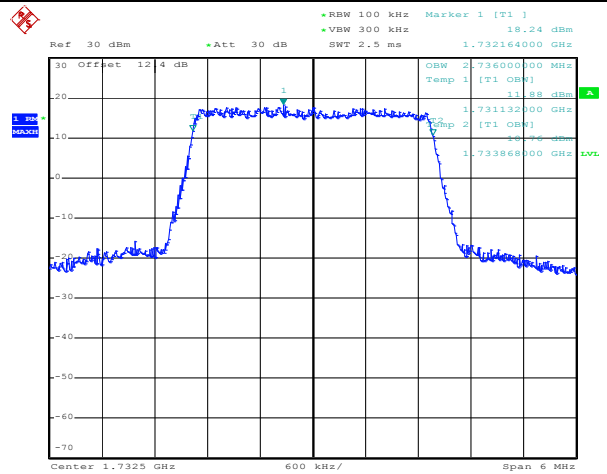
Date: 21.DEC.2011 05:43:23

8RB Size, RB Offset 4, 16QAM



Date: 21.DEC.2011 03:07:30

15RB Size, RB Offset 0, QPSK



Date: 21.DEC.2011 03:08:17

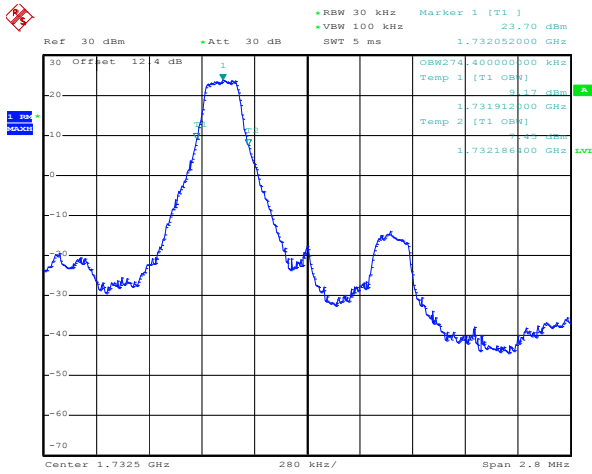
15RB Size, RB Offset 0, 16QAM





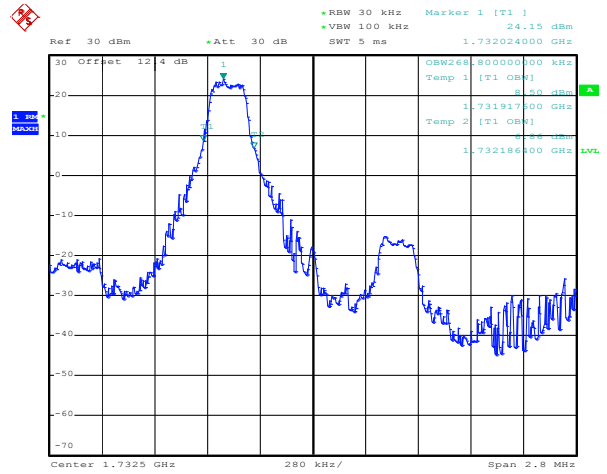
Band 4

Bandwidth 1.4M



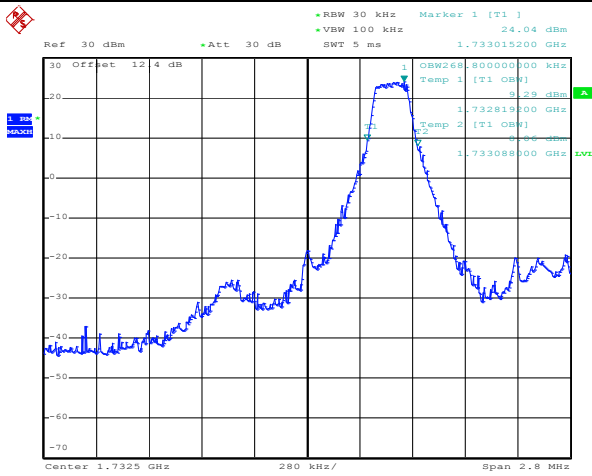
Date: 21.DEC.2011 03:36:49

1RB Size, RB Offset 0, QPSK



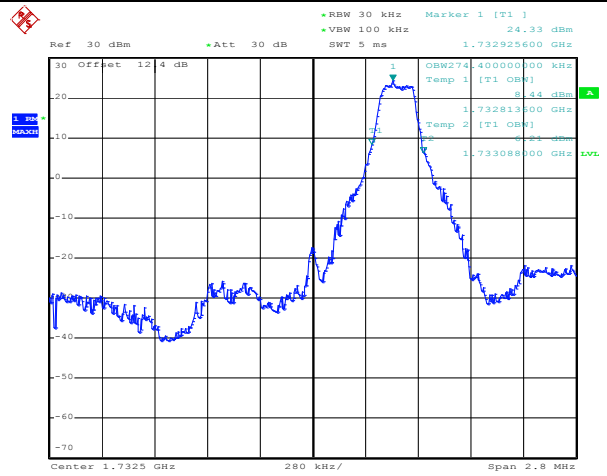
Date: 21.DEC.2011 03:37:05

1RB Size, RB Offset 0, 16QAM



Date: 21.DEC.2011 03:37:33

1RB Size, RB Offset 5, QPSK



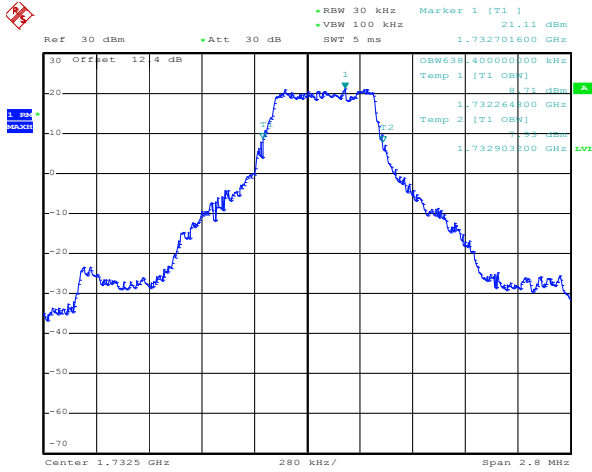
Date: 21.DEC.2011 03:37:56

1RB Size, RB Offset 5, 16QAM



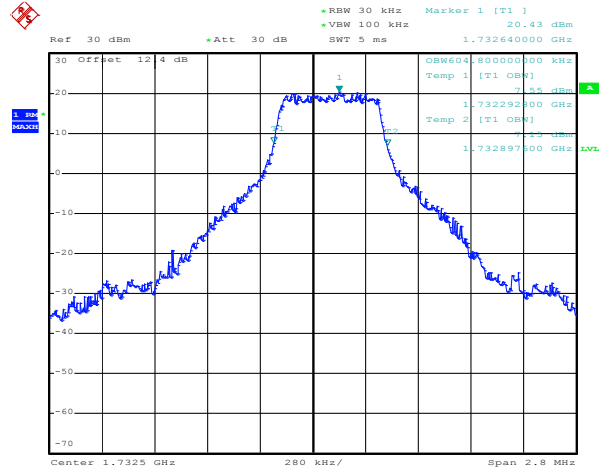
Band 4

Bandwidth 1.4M



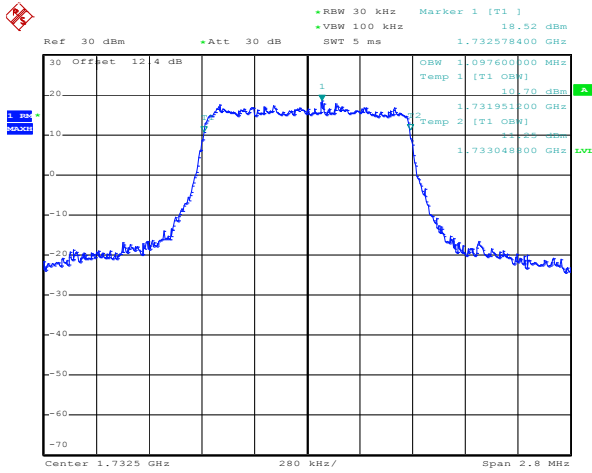
Date: 21.DEC.2011 03:38:40

3RB Size, RB Offset 2, QPSK



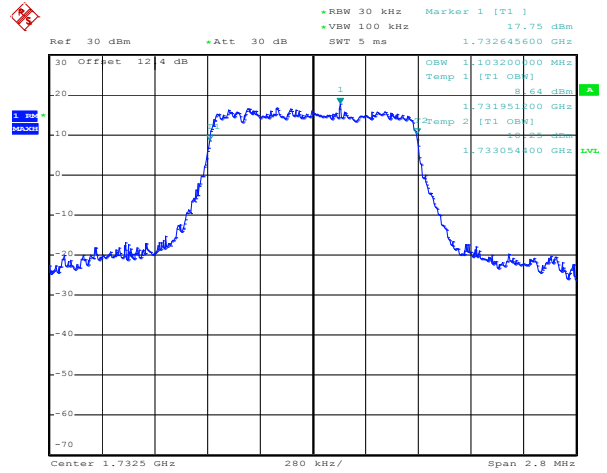
Date: 21.DEC.2011 03:38:58

3RB Size, RB Offset 2, 16QAM



Date: 21.DEC.2011 03:39:37

6RB Size, RB Offset 0, QPSK



Date: 21.DEC.2011 03:40:03

6RB Size, RB Offset 0, 16QAM