



Occupied Bandwidth

| Mode | LTE Band 2 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.09 | 1.10 | 2.70 | 2.71 | 4.50 | 4.48 | 9.07 | 9.09 | 13.46 | 13.49 | 18.46 | 18.50 |
| Middle CH | 1.09 | 1.09 | 2.72 | 2.73 | 4.52 | 4.49 | 9.03 | 9.07 | 13.49 | 13.52 | 18.34 | 18.30 |
| Highest CH | 1.10 | 1.09 | 2.73 | 2.72 | 4.50 | 4.52 | 9.05 | 8.99 | 13.46 | 13.49 | 18.22 | 18.38 |

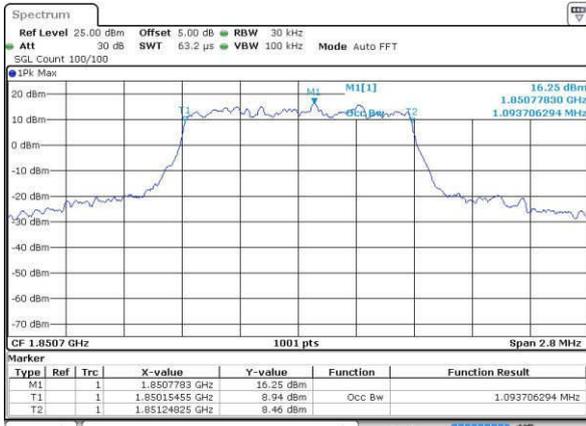
| Mode | LTE Band 4 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.09 | 1.09 | 2.71 | 2.73 | 4.50 | 4.51 | 9.03 | 8.99 | 13.37 | 13.52 | 18.30 | 18.26 |
| Middle CH | 1.09 | 1.10 | 2.72 | 2.74 | 4.50 | 4.52 | 9.09 | 9.01 | 13.49 | 13.49 | 18.42 | 18.38 |
| Highest CH | 1.10 | 1.10 | 2.71 | 2.73 | 4.49 | 4.51 | 9.03 | 8.99 | 13.37 | 13.40 | 18.22 | 18.26 |

| Mode | LTE Band 13 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.48 | 4.47 | - | - | - | - | - | - |
| Middle CH | - | - | - | - | 4.52 | 4.49 | 8.93 | 8.99 | - | - | - | - |
| Highest CH | - | - | - | - | 4.50 | 4.49 | - | - | - | - | - | - |



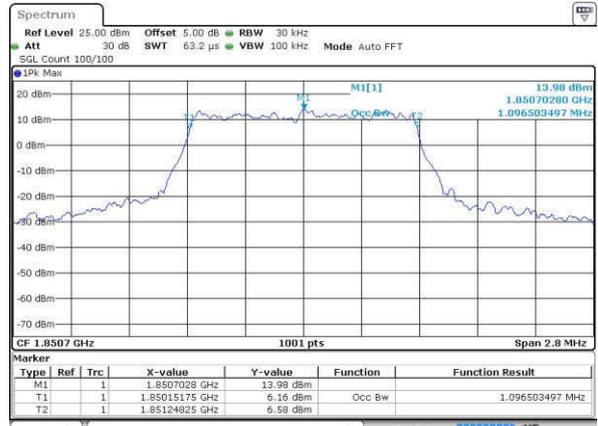
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



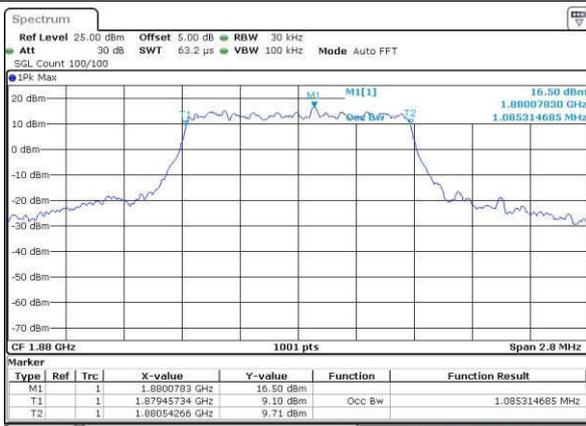
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Lowest Channel / 1.4MHz / 16QAM



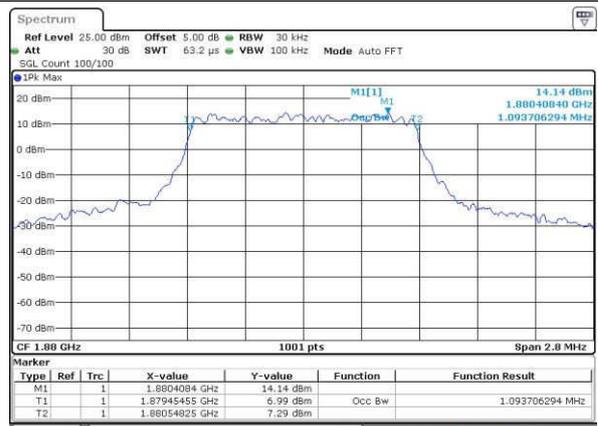
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Middle Channel / 1.4MHz / QPSK



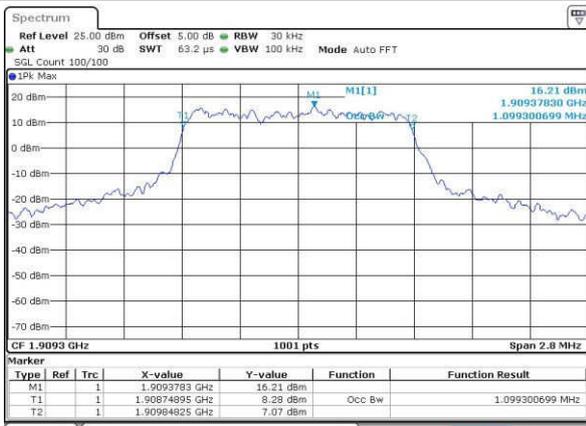
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Middle Channel / 1.4MHz / 16QAM



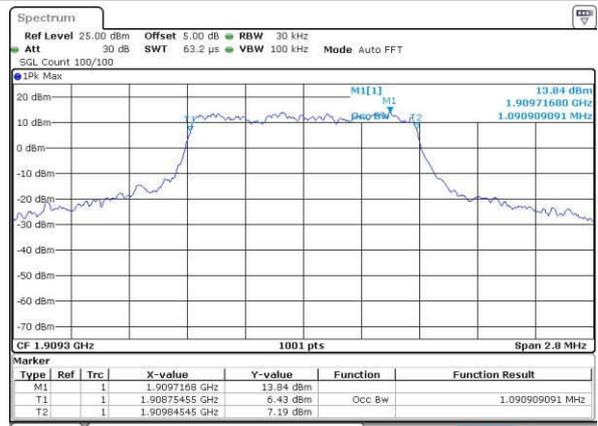
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Highest Channel / 1.4MHz / QPSK



Date: 28 NOV 2016 12:43:18

Highest Channel / 1.4MHz / 16QAM

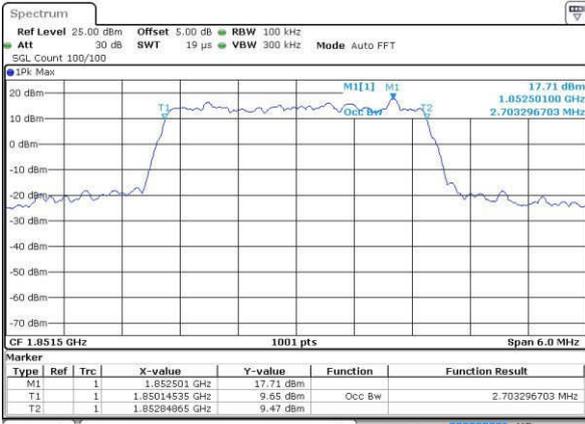


Date: 28 NOV 2016 10:26:18



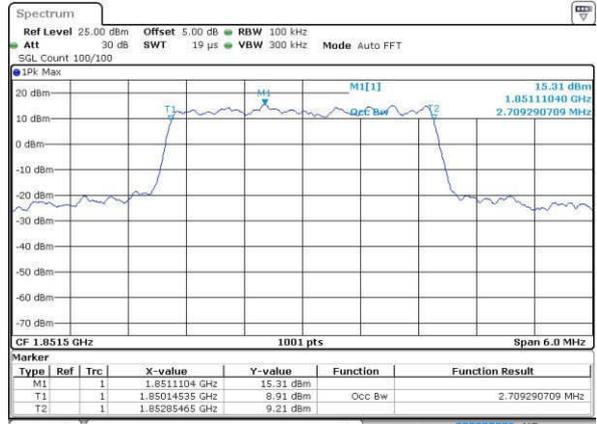
LTE Band 2

Lowest Channel / 3MHz / QPSK



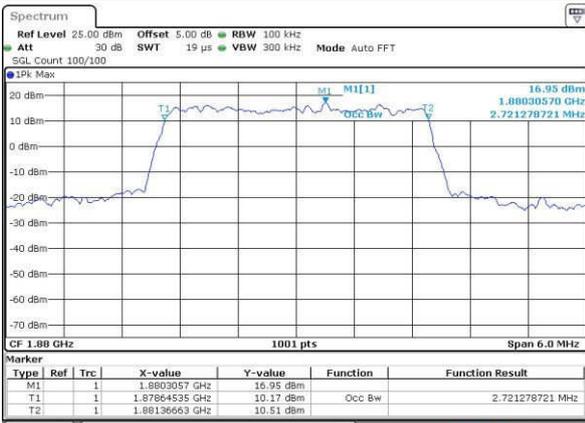
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Lowest Channel / 3MHz / 16QAM



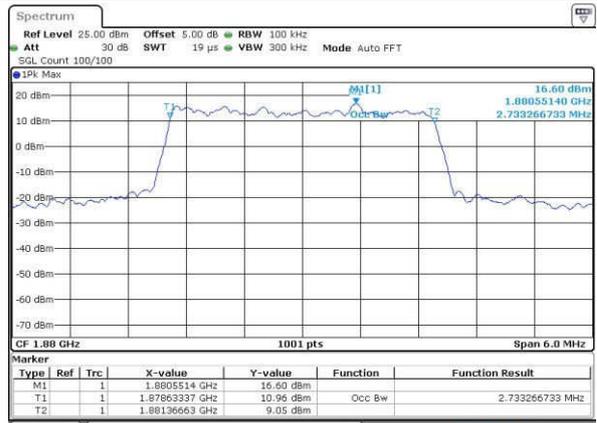
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Middle Channel / 3MHz / QPSK



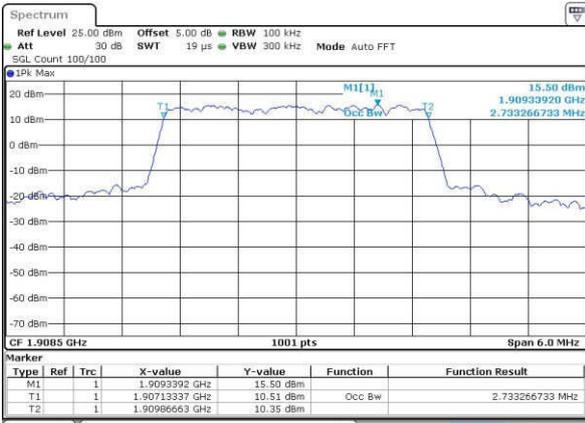
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Middle Channel / 3MHz / 16QAM



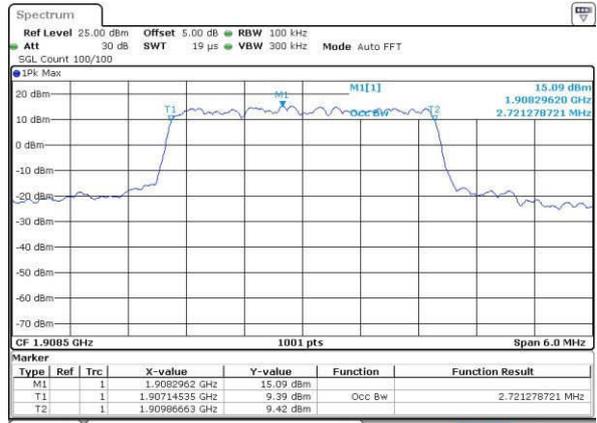
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Highest Channel / 3MHz / QPSK



Date: 28 NOV 2016 10:42:54

Highest Channel / 3MHz / 16QAM

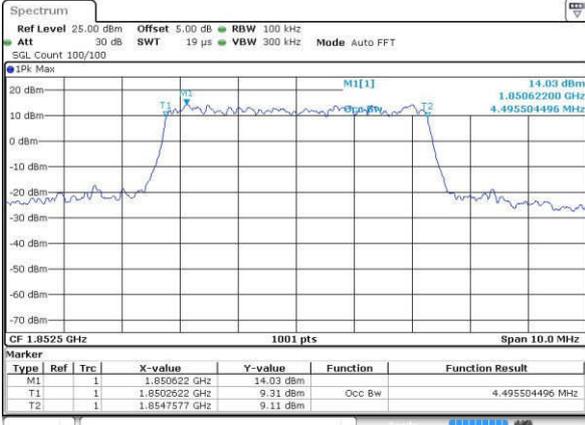


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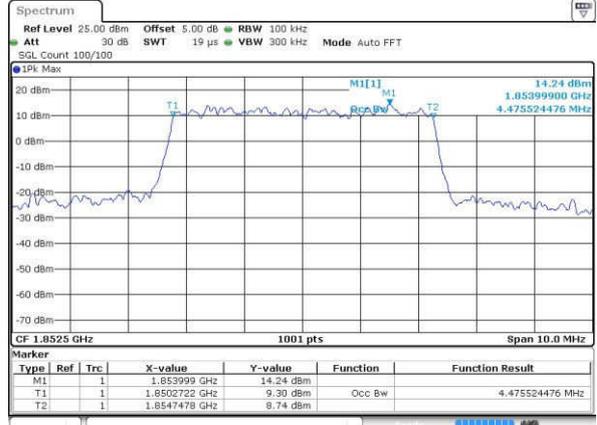
LTE Band 2

Lowest Channel / 5MHz / QPSK



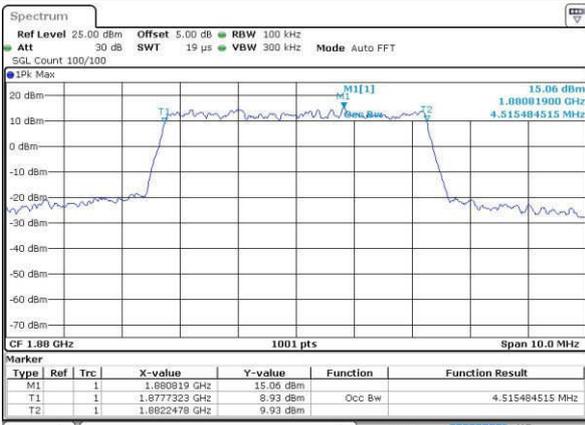
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Lowest Channel / 5MHz / 16QAM



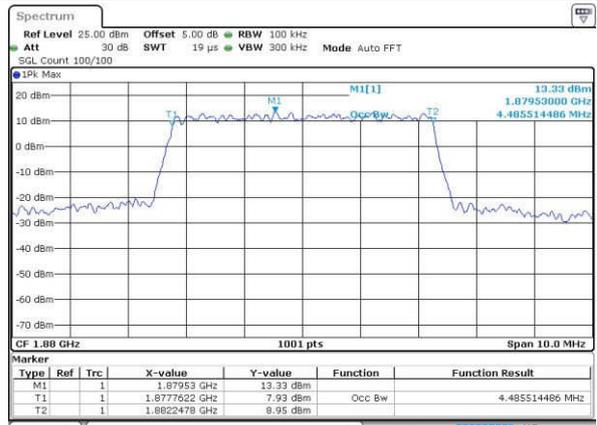
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Middle Channel / 5MHz / QPSK



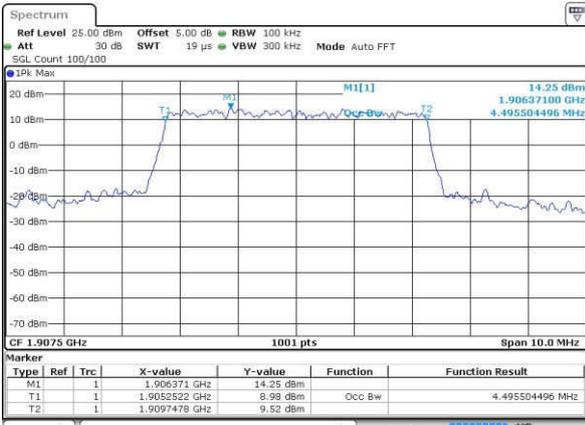
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Middle Channel / 5MHz / 16QAM



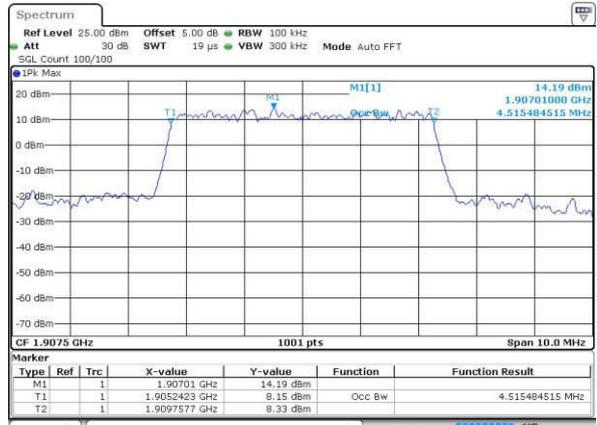
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Highest Channel / 5MHz / QPSK



Date: 28 NOV 2016 10:59:41

Highest Channel / 5MHz / 16QAM

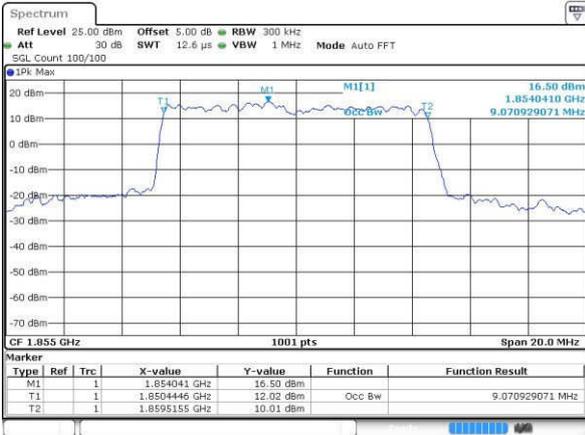


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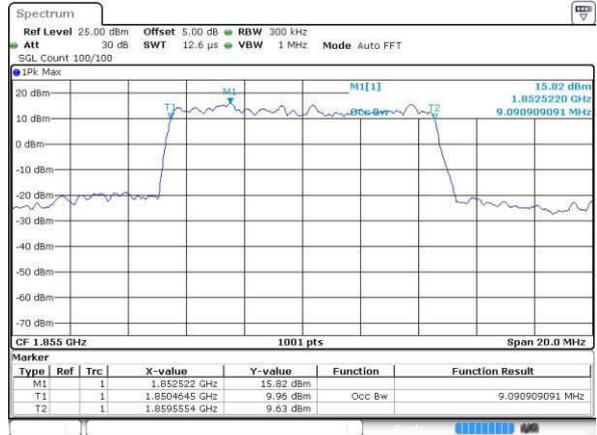
LTE Band 2

Lowest Channel / 10MHz / QPSK



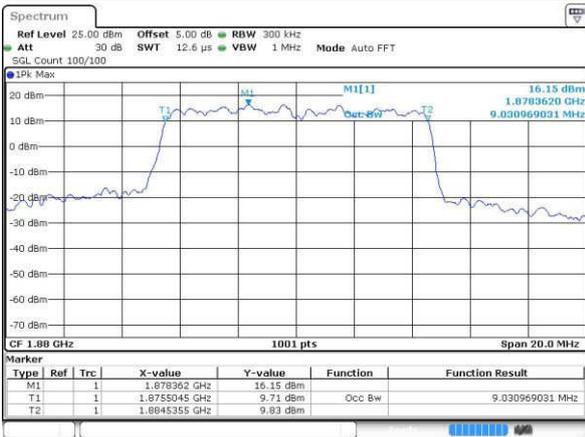
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Lowest Channel / 10MHz / 16QAM



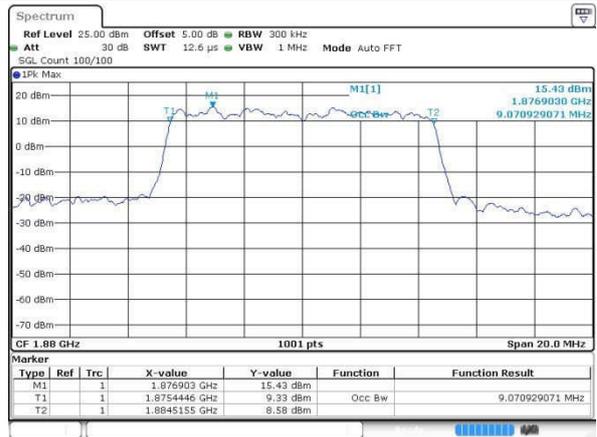
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Middle Channel / 10MHz / QPSK



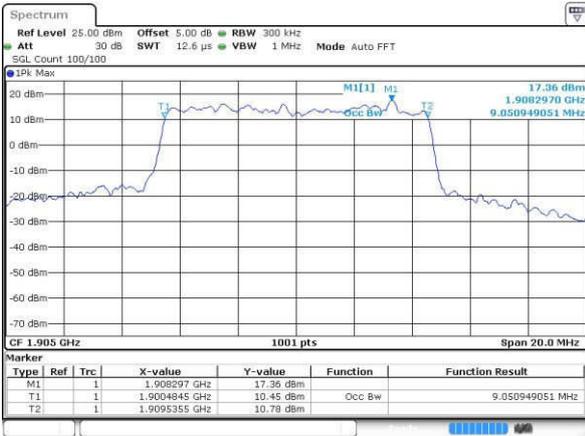
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Middle Channel / 10MHz / 16QAM



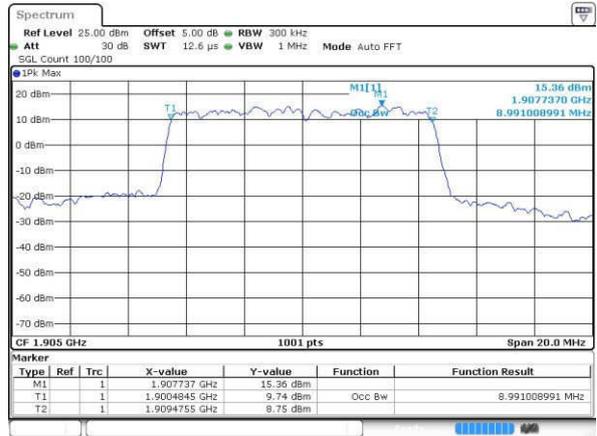
Date: 28 NOV 2016 13:18:09

Highest Channel / 10MHz / QPSK



Date: 28 NOV 2016 11:16:27

Highest Channel / 10MHz / 16QAM

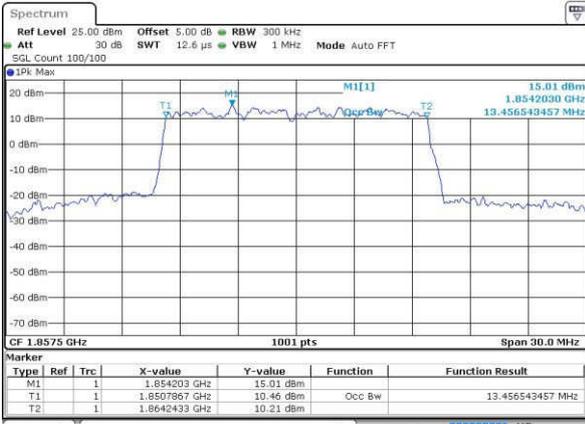


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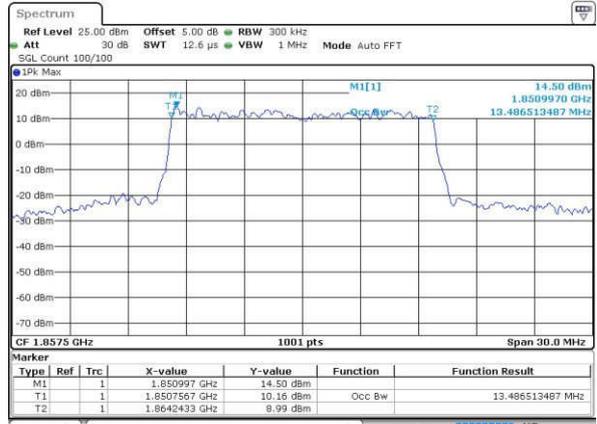
LTE Band 2

Lowest Channel / 15MHz / QPSK



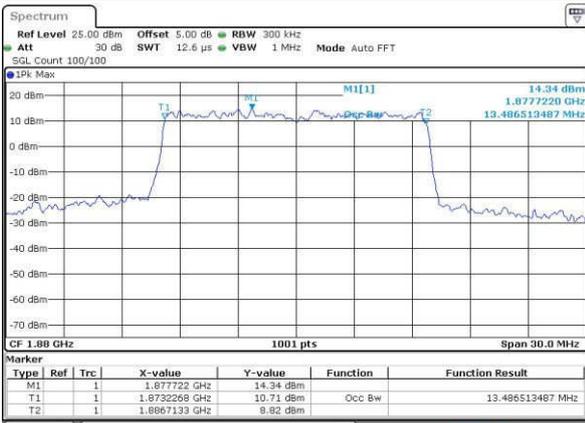
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Lowest Channel / 15MHz / 16QAM



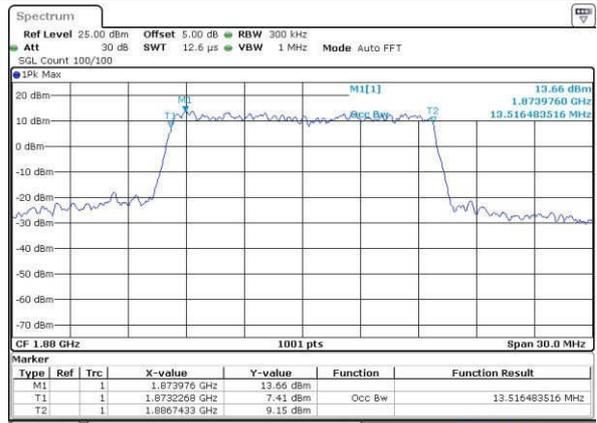
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Middle Channel / 15MHz / QPSK



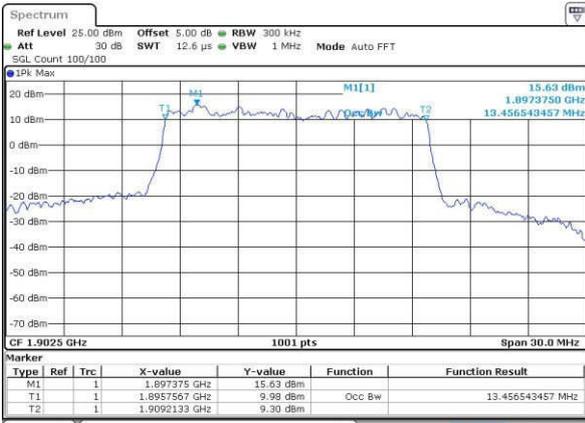
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Middle Channel / 15MHz / 16QAM



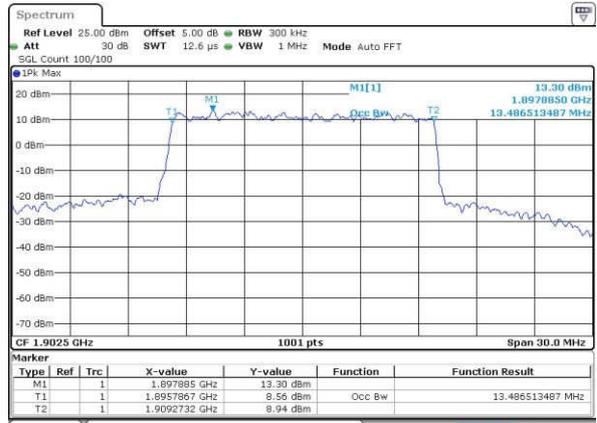
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Highest Channel / 15MHz / QPSK



Date: 28 NOV 2016 11:33:14

Highest Channel / 15MHz / 16QAM

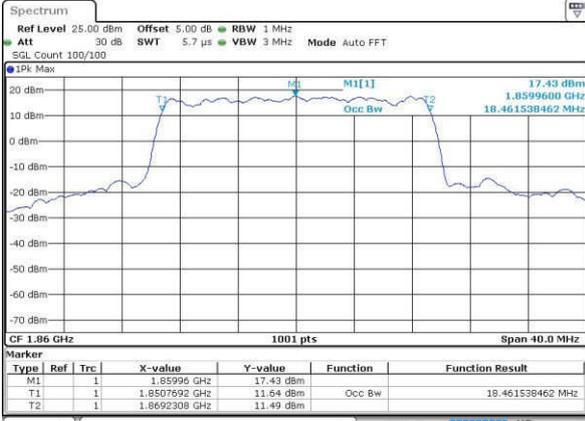


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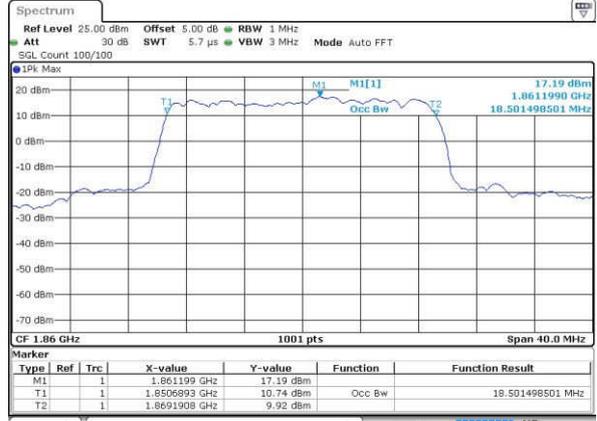
LTE Band 2

Lowest Channel / 20MHz / QPSK



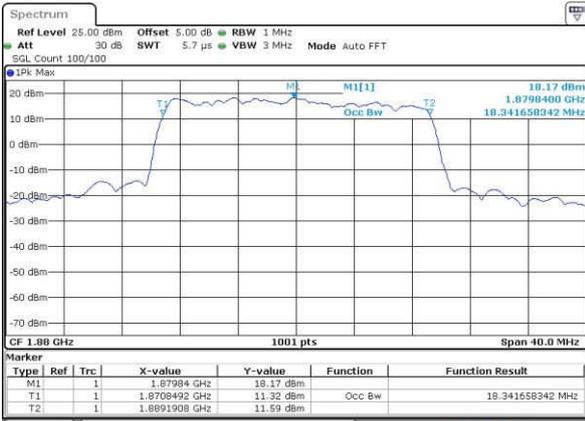
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Lowest Channel / 20MHz / 16QAM



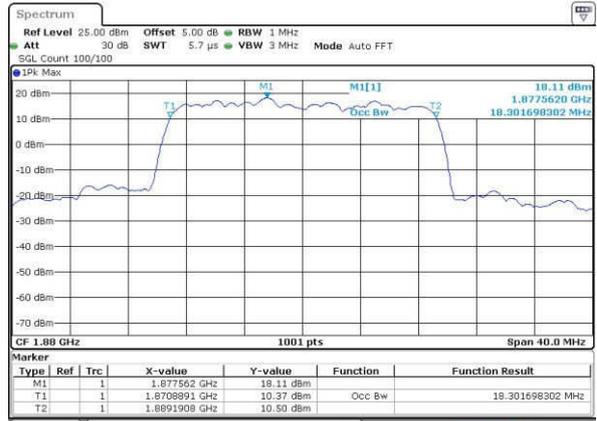
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Middle Channel / 20MHz / QPSK



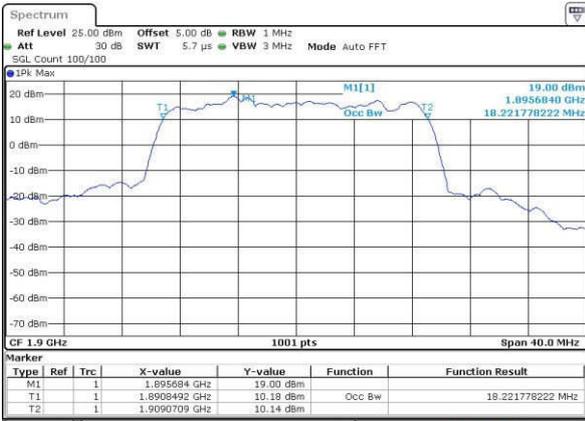
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Middle Channel / 20MHz / 16QAM



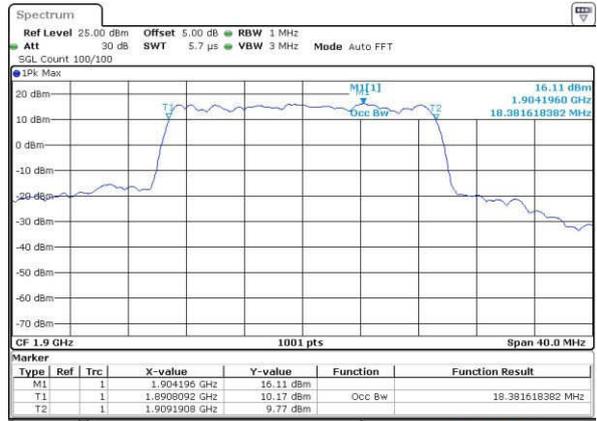
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Highest Channel / 20MHz / QPSK



Date: 28 NOV 2016 11:50:01

Highest Channel / 20MHz / 16QAM

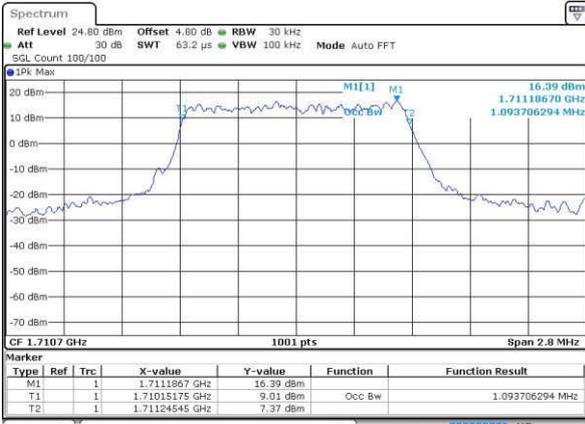


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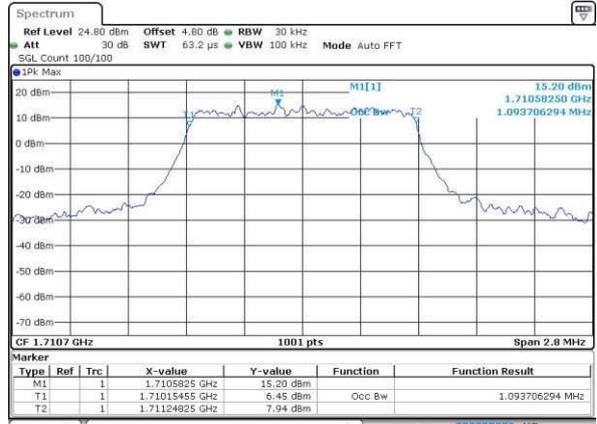
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



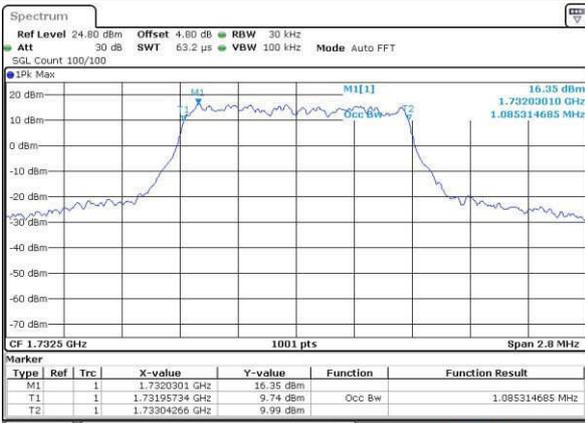
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Lowest Channel / 1.4MHz / 16QAM



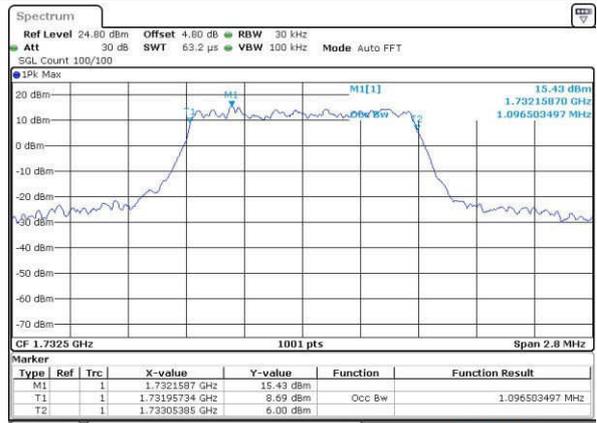
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Middle Channel / 1.4MHz / QPSK



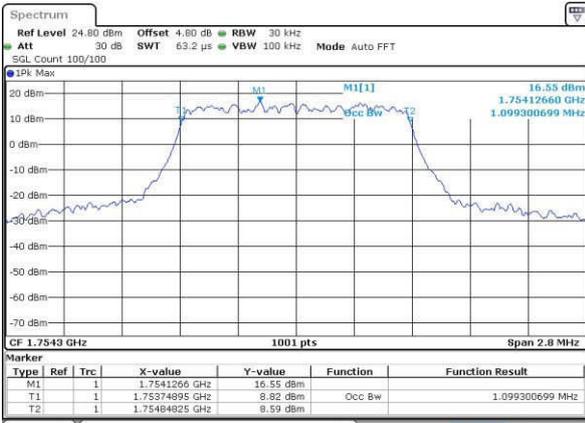
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Middle Channel / 1.4MHz / 16QAM



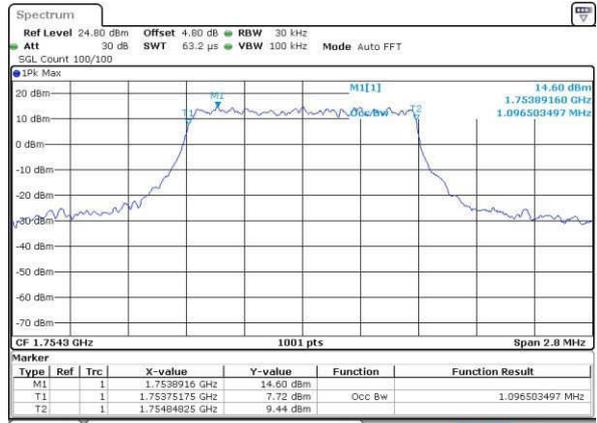
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Highest Channel / 1.4MHz / QPSK



Date: 14 NOV 2016 09:27:11

Highest Channel / 1.4MHz / 16QAM

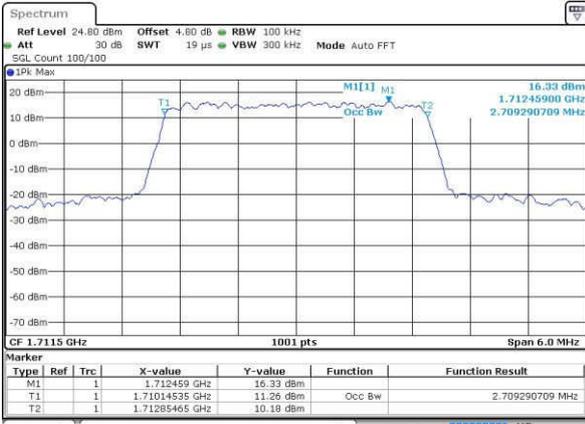


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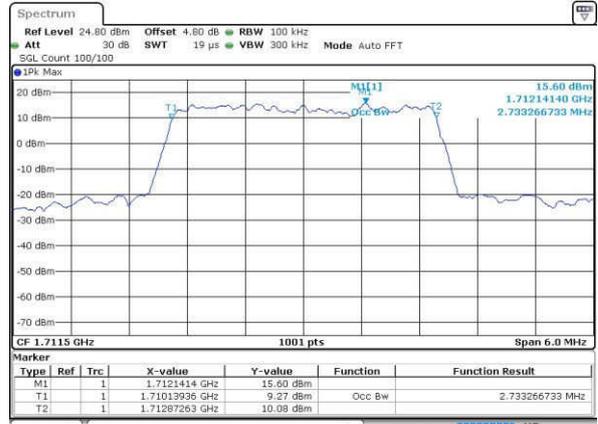
LTE Band 4

Lowest Channel / 3MHz / QPSK



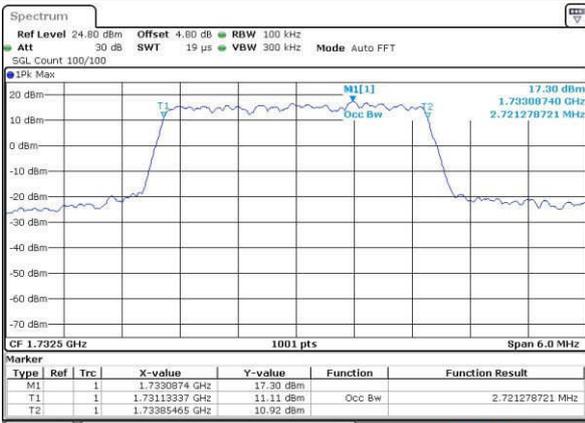
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Lowest Channel / 3MHz / 16QAM



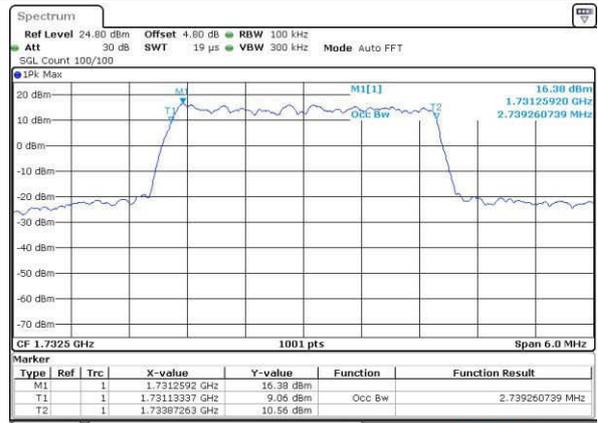
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Middle Channel / 3MHz / QPSK



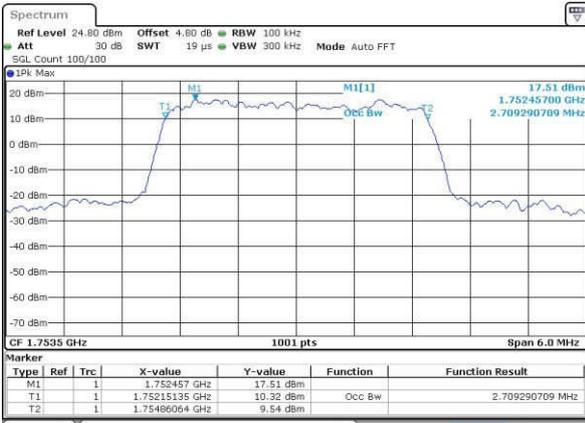
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Middle Channel / 3MHz / 16QAM



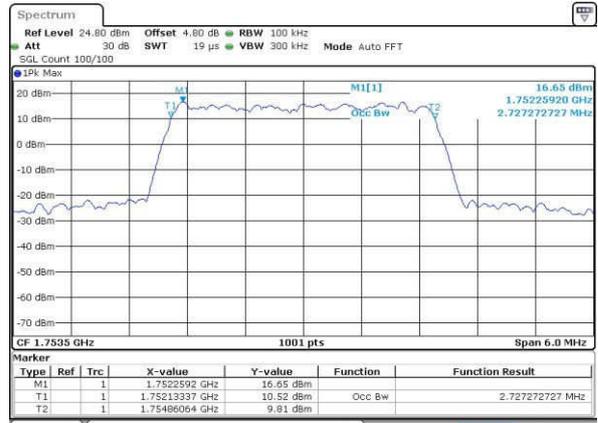
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Highest Channel / 3MHz / QPSK



Date: 14 NOV 2016 09:43:55

Highest Channel / 3MHz / 16QAM

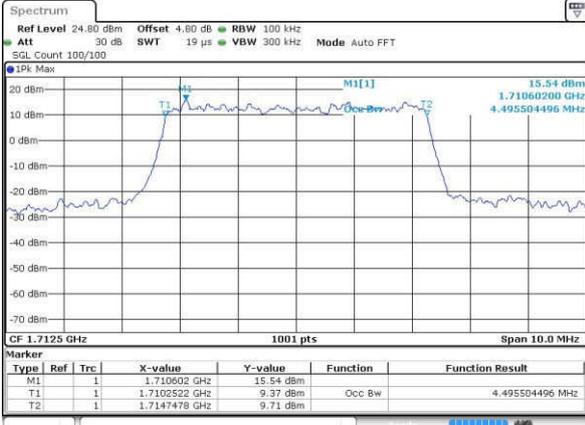


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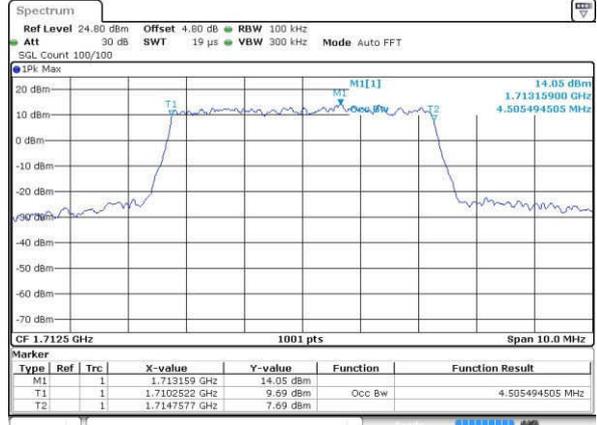
LTE Band 4

Lowest Channel / 5MHz / QPSK



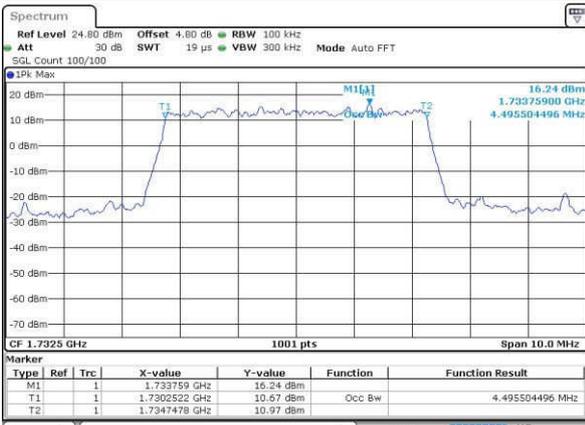
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Lowest Channel / 5MHz / 16QAM



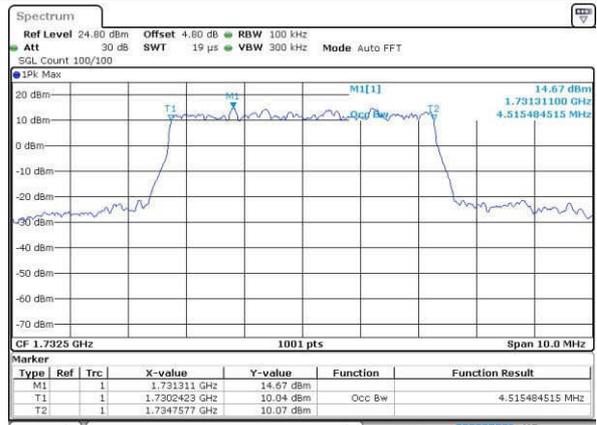
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Middle Channel / 5MHz / QPSK



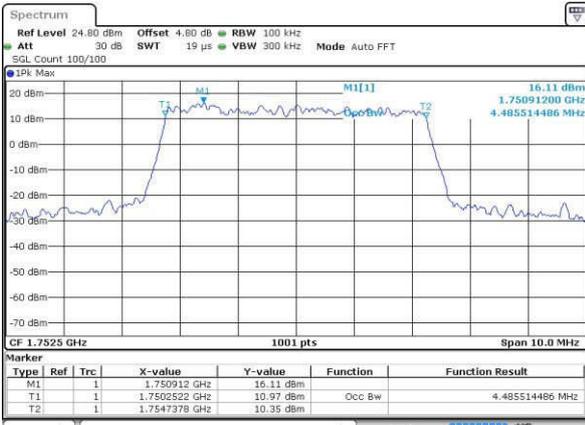
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Middle Channel / 5MHz / 16QAM



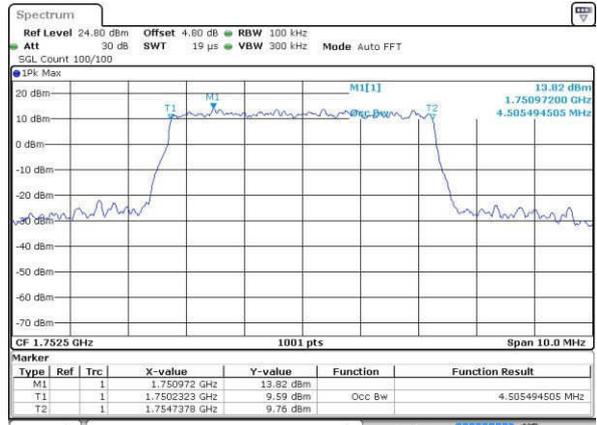
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Highest Channel / 5MHz / QPSK



Date: 14 NOV 2016 10:00:39

Highest Channel / 5MHz / 16QAM

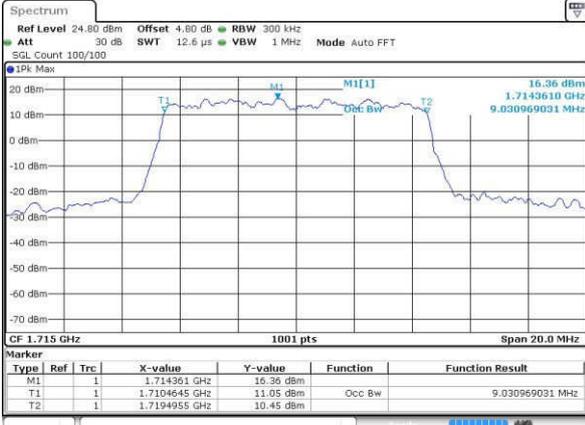


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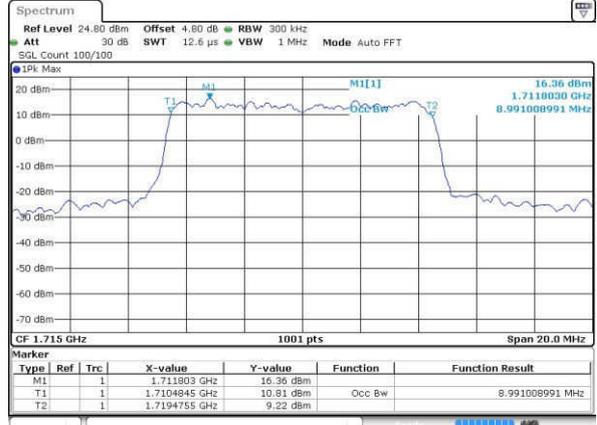
LTE Band 4

Lowest Channel / 10MHz / QPSK



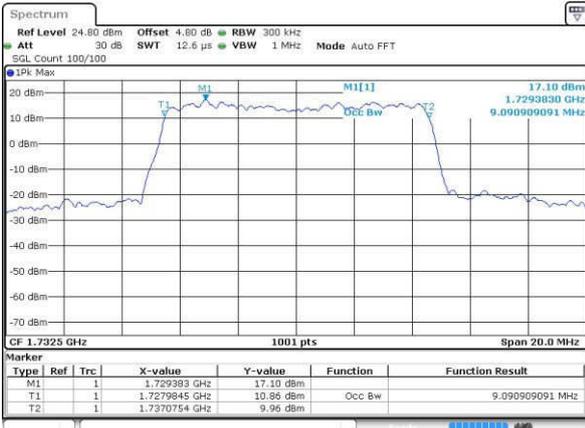
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Lowest Channel / 10MHz / 16QAM



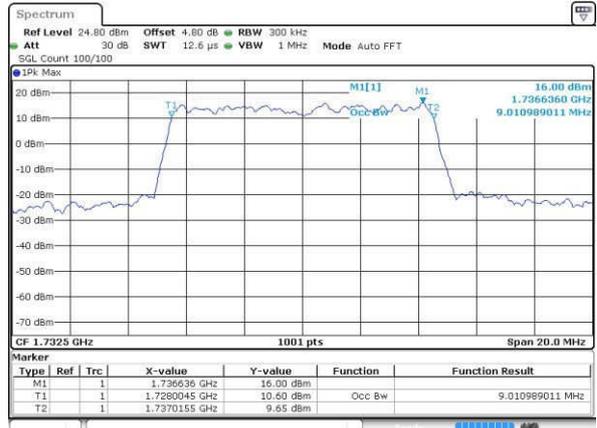
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Middle Channel / 10MHz / QPSK



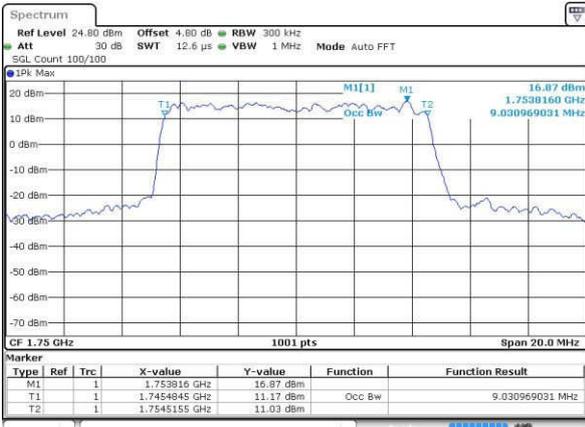
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Middle Channel / 10MHz / 16QAM



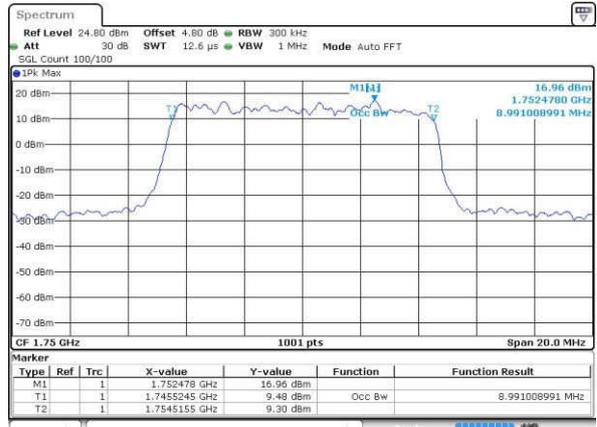
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Highest Channel / 10MHz / QPSK



Date: 14 NOV 2016 10:17:23

Highest Channel / 10MHz / 16QAM

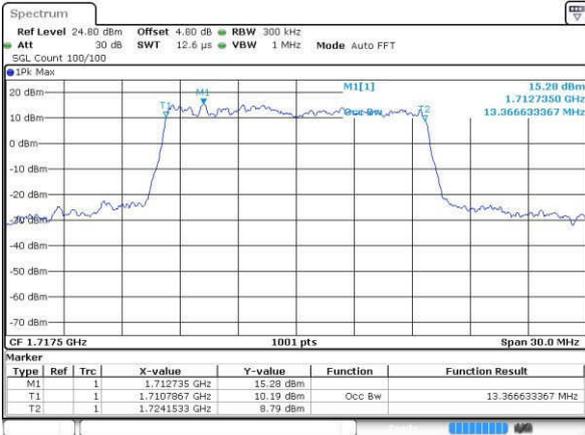


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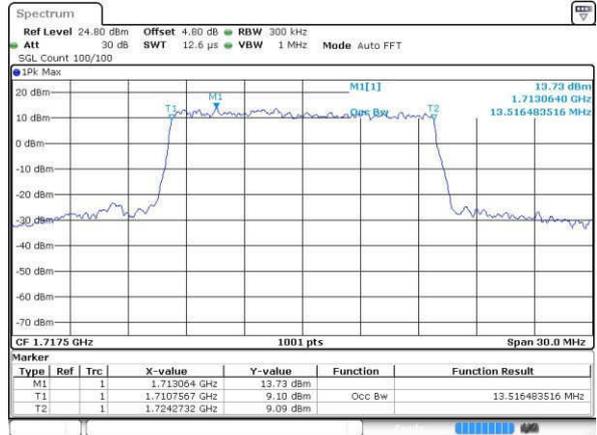
LTE Band 4

Lowest Channel / 15MHz / QPSK



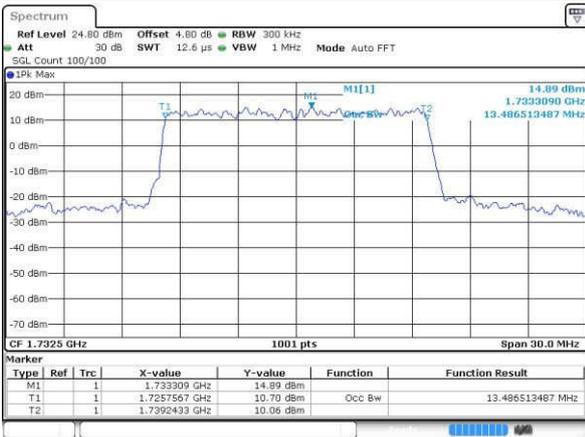
Date: 14 NOV 2016 10:24:28

Lowest Channel / 15MHz / 16QAM



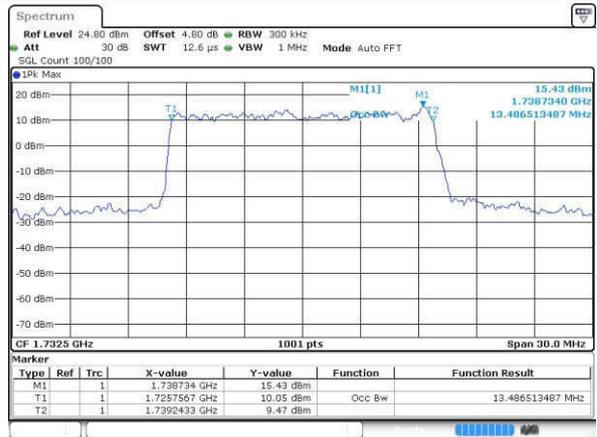
Date: 14 NOV 2016 10:24:39

Middle Channel / 15MHz / QPSK



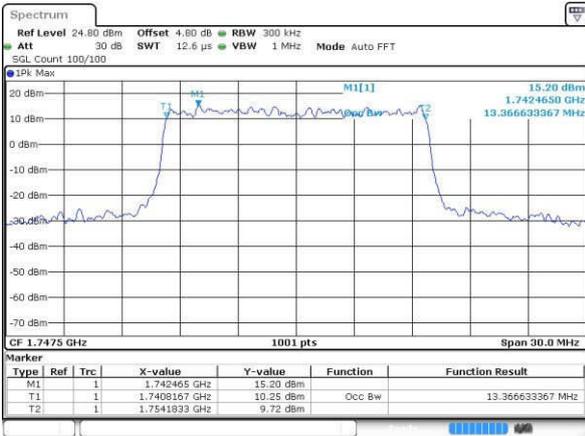
Date: 14 NOV 2016 10:31:34

Middle Channel / 15MHz / 16QAM



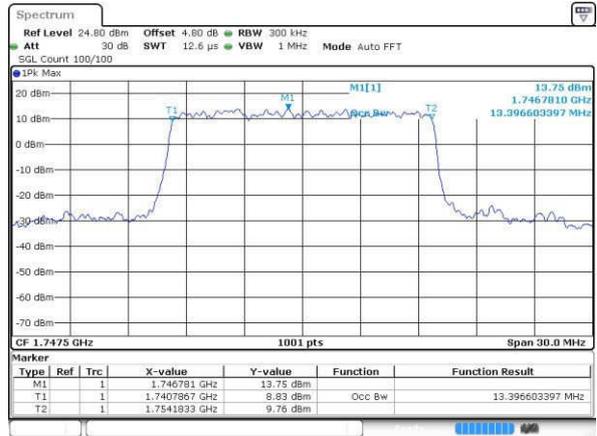
Date: 14 NOV 2016 10:31:45

Highest Channel / 15MHz / QPSK



Date: 14 NOV 2016 10:34:07

Highest Channel / 15MHz / 16QAM

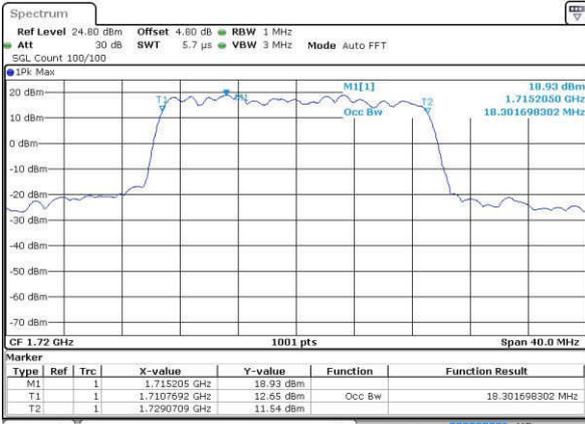


Date: 14 NOV 2016 10:34:18



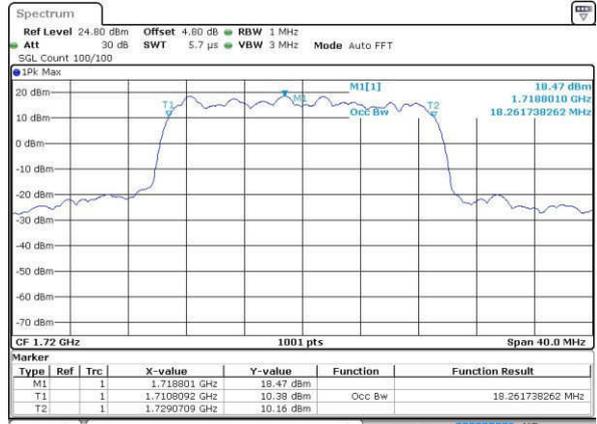
LTE Band 4

Lowest Channel / 20MHz / QPSK



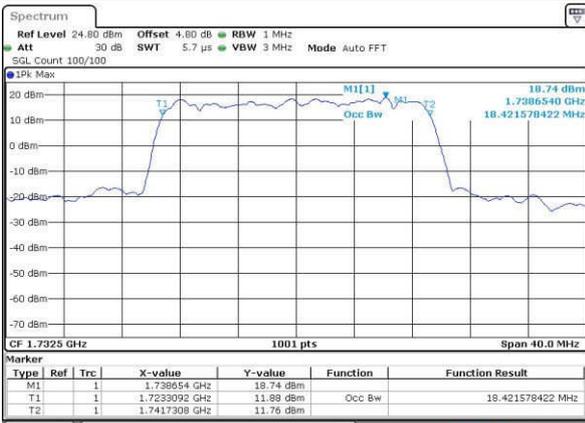
Date: 14 NOV 2016 10:41:13

Lowest Channel / 20MHz / 16QAM



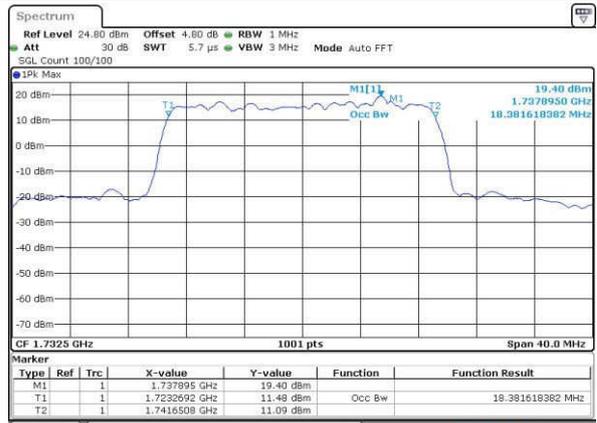
Date: 14 NOV 2016 10:41:23

Middle Channel / 20MHz / QPSK



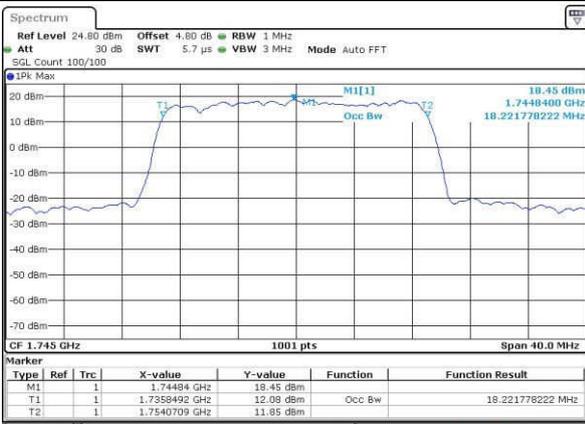
Date: 14 NOV 2016 10:48:18

Middle Channel / 20MHz / 16QAM



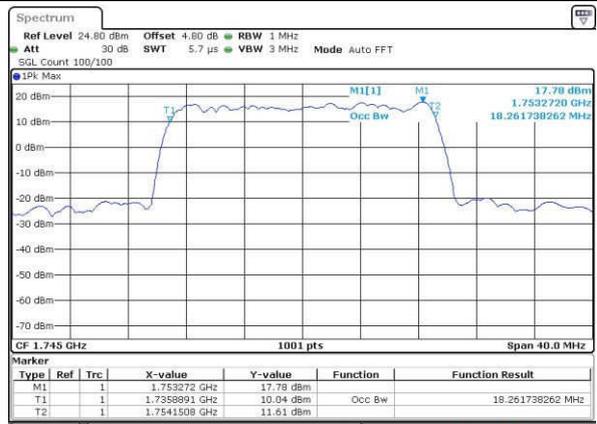
Date: 14 NOV 2016 10:48:29

Highest Channel / 20MHz / QPSK



Date: 14 NOV 2016 10:50:51

Highest Channel / 20MHz / 16QAM

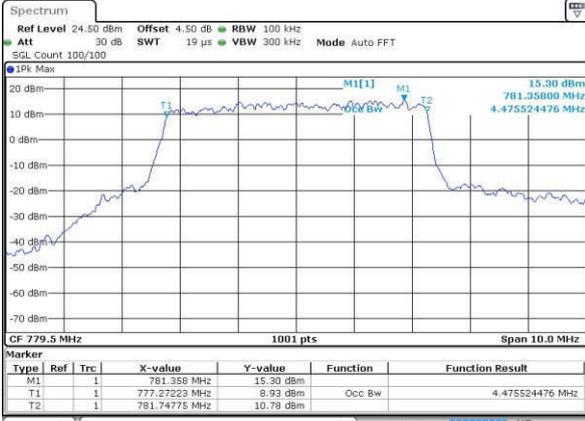


Date: 14 NOV 2016 10:51:02



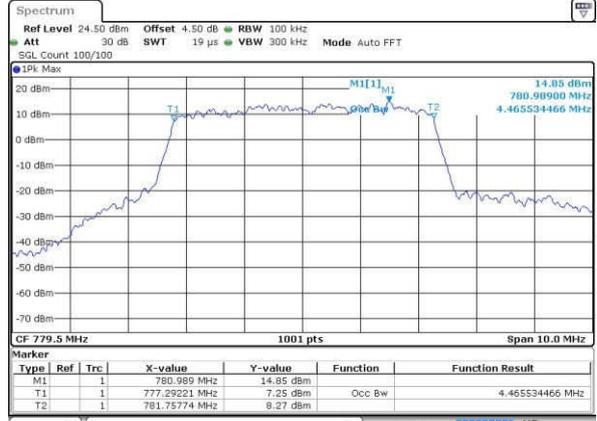
LTE Band 13

Lowest Channel / 5MHz / QPSK



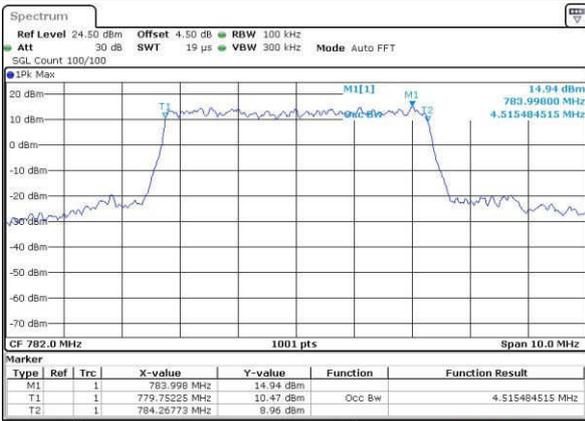
Date: 13 NOV 2016 20:58:36

Lowest Channel / 5MHz / 16QAM



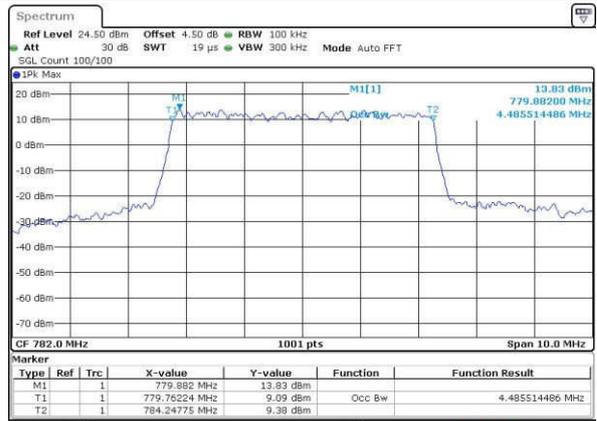
Date: 13 NOV 2016 20:58:26

Middle Channel / 5MHz / QPSK



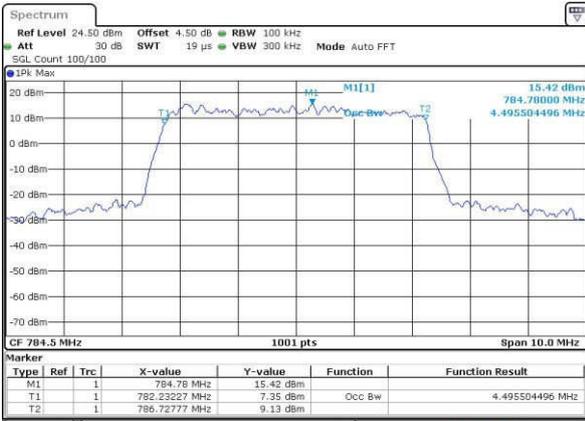
Date: 13 NOV 2016 21:07:31

Middle Channel / 5MHz / 16QAM



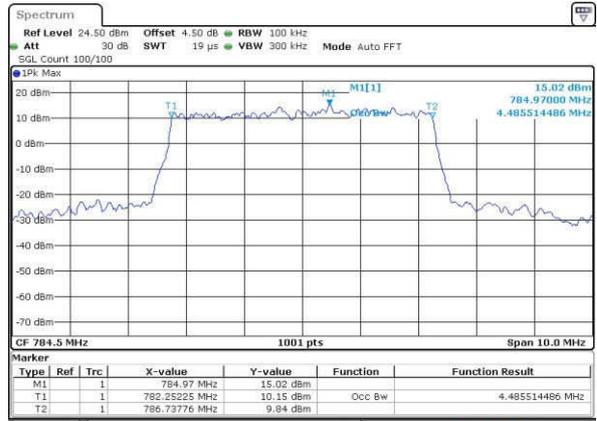
Date: 13 NOV 2016 21:07:41

Highest Channel / 5MHz / QPSK



Date: 13 NOV 2016 21:10:02

Highest Channel / 5MHz / 16QAM

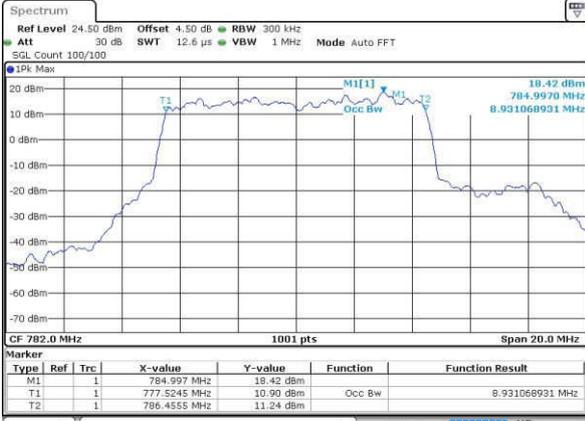


Date: 13 NOV 2016 21:10:12



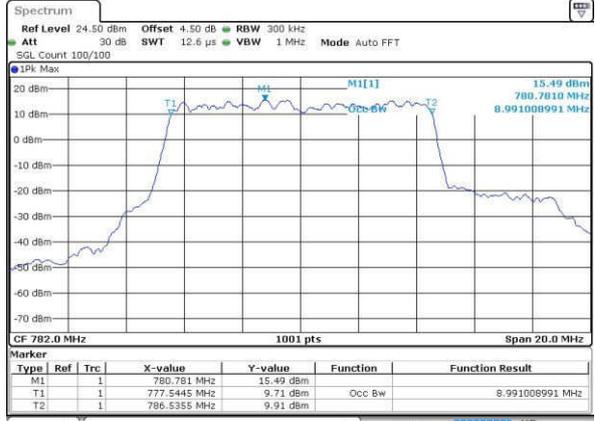
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 13 NOV 2016 21:20:55

Middle Channel / 10MHz / 16QAM



Date: 13 NOV 2016 21:21:06