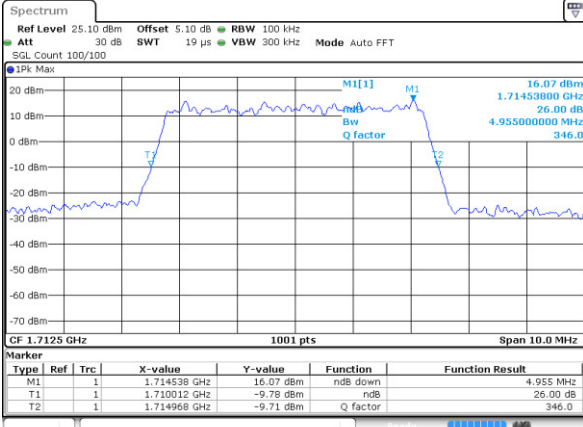




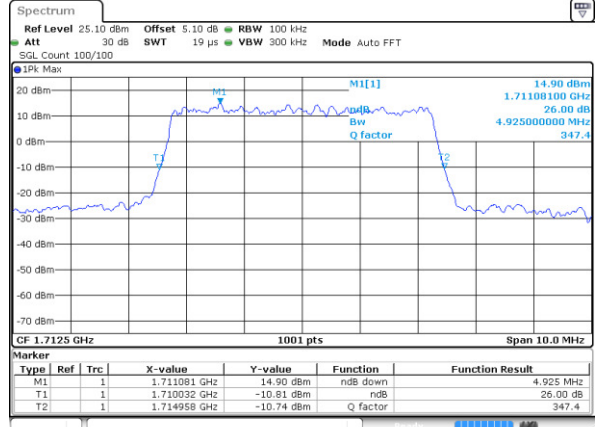
LTE Band 4

Lowest Channel / 5MHz / QPSK



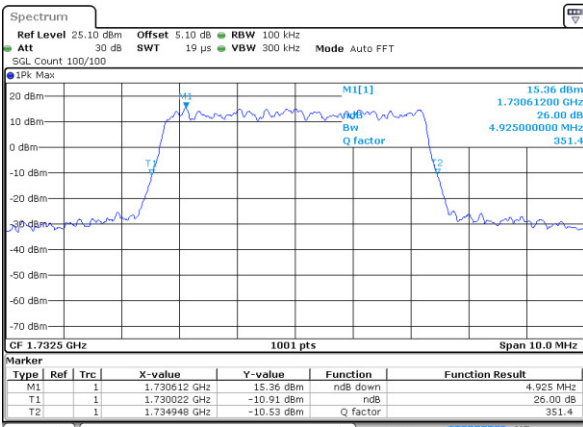
Date: 6 DEC 2017 13:14:34

Lowest Channel / 5MHz / 16QAM



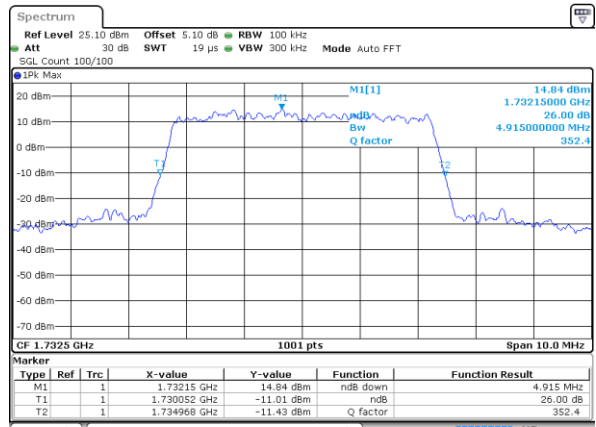
Date: 6 DEC 2017 13:14:44

Middle Channel / 5MHz / QPSK



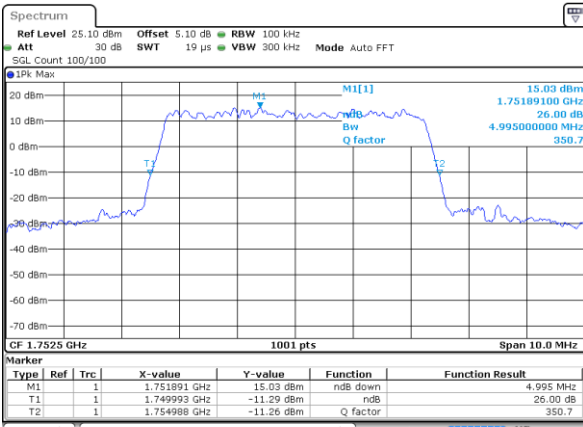
Date: 6 DEC 2017 13:21:33

Middle Channel / 5MHz / 16QAM



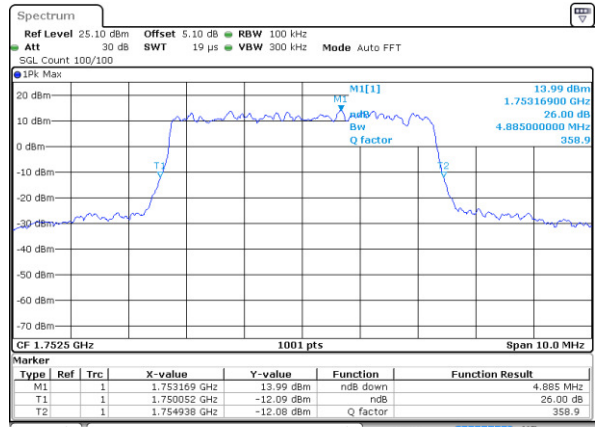
Date: 6 DEC 2017 13:21:43

Highest Channel / 5MHz / QPSK



Date: 6 DEC 2017 13:24:03

Highest Channel / 5MHz / 16QAM

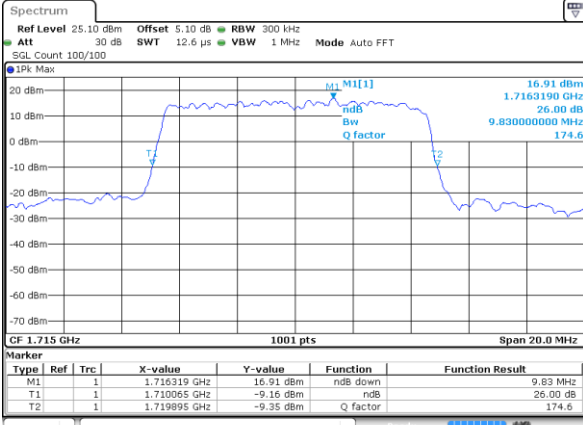


Date: 6 DEC 2017 13:24:13



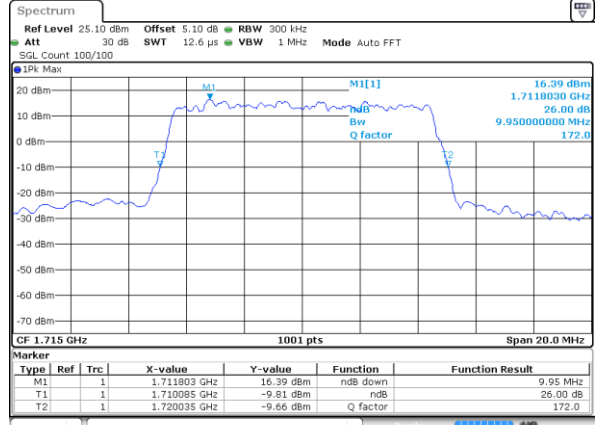
LTE Band 4

Lowest Channel / 10MHz / QPSK



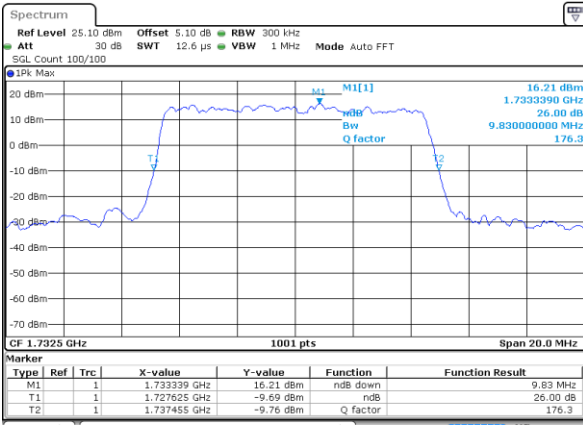
Date: 6 DEC 2017 13:31:03

Lowest Channel / 10MHz / 16QAM



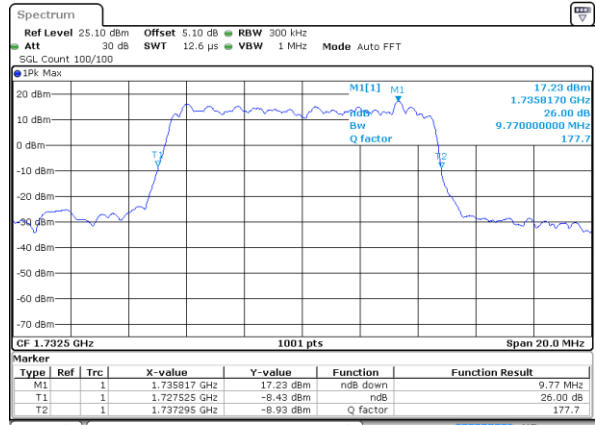
Date: 6 DEC 2017 13:31:13

Middle Channel / 10MHz / QPSK



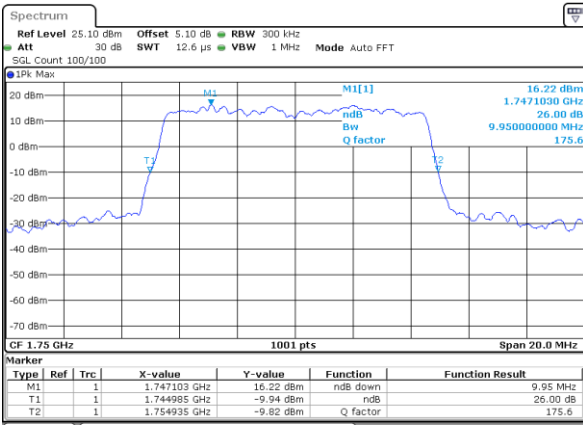
Date: 6 DEC 2017 13:38:02

Middle Channel / 10MHz / 16QAM



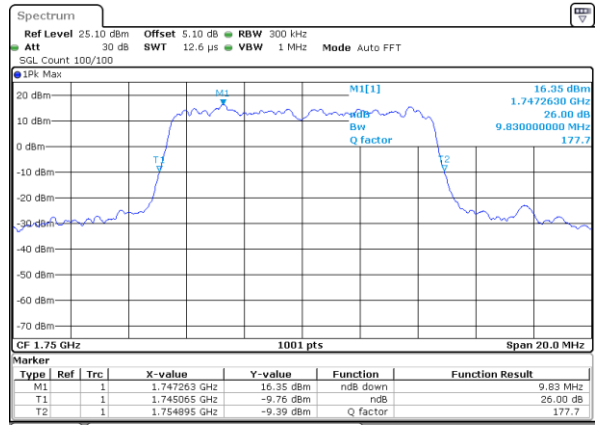
Date: 6 DEC 2017 13:38:12

Highest Channel / 10MHz / QPSK



Date: 6 DEC 2017 13:40:32

Highest Channel / 10MHz / 16QAM

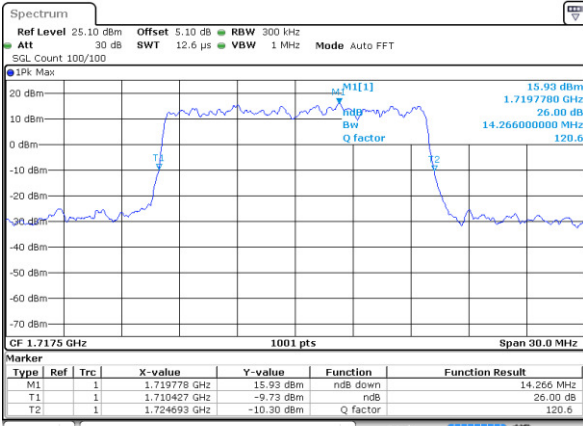


Date: 6 DEC 2017 13:40:42



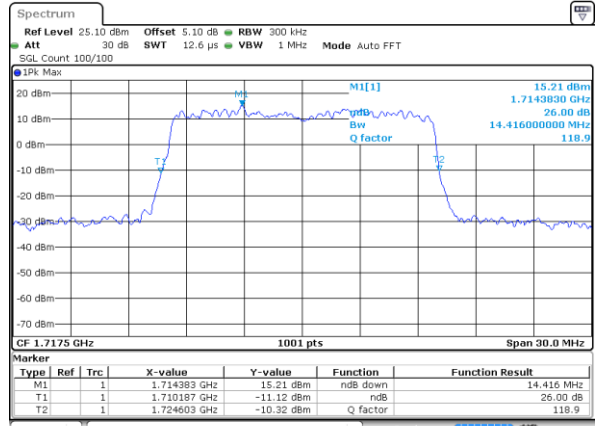
LTE Band 4

Lowest Channel / 15MHz / QPSK



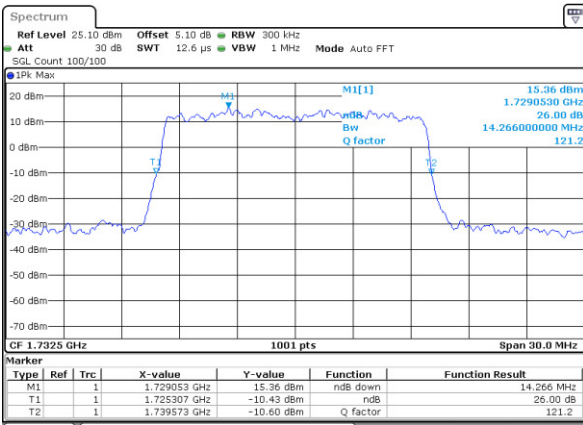
Date: 6 DEC 2017 13:47:32

Lowest Channel / 15MHz / 16QAM



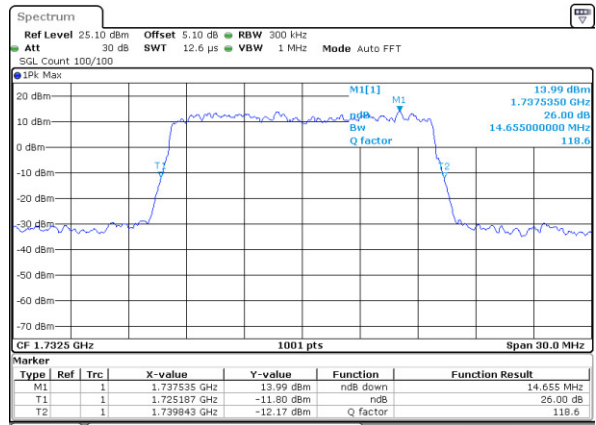
Date: 6 DEC 2017 13:47:42

Middle Channel / 15MHz / QPSK



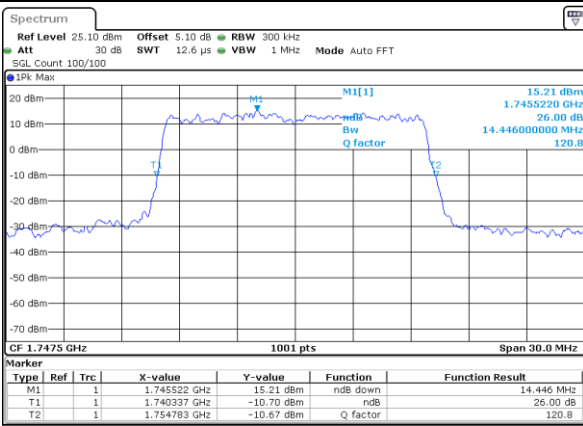
Date: 6 DEC 2017 13:54:32

Middle Channel / 15MHz / 16QAM



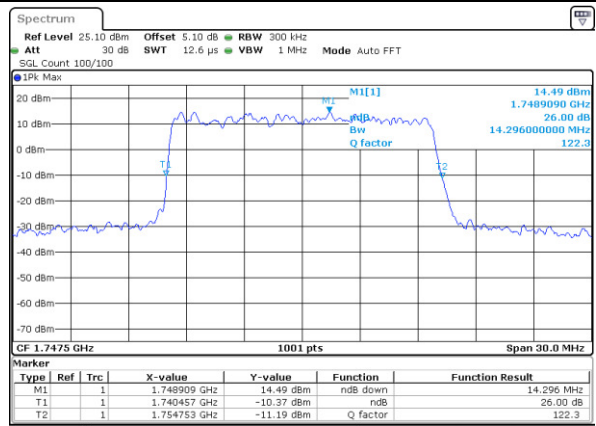
Date: 6 DEC 2017 13:54:42

Highest Channel / 15MHz / QPSK



Date: 6 DEC 2017 13:57:01

Highest Channel / 15MHz / 16QAM

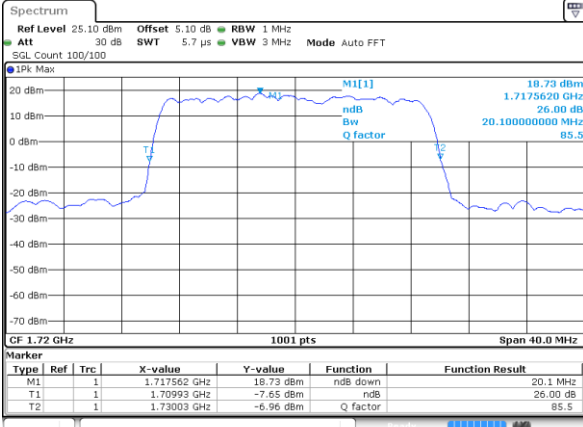


Date: 6 DEC 2017 13:57:11



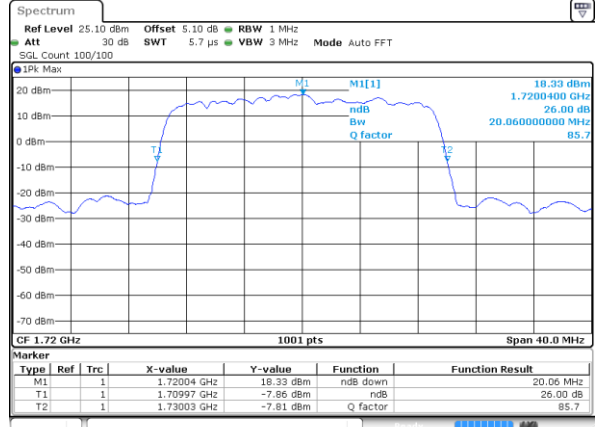
LTE Band 4

Lowest Channel / 20MHz / QPSK



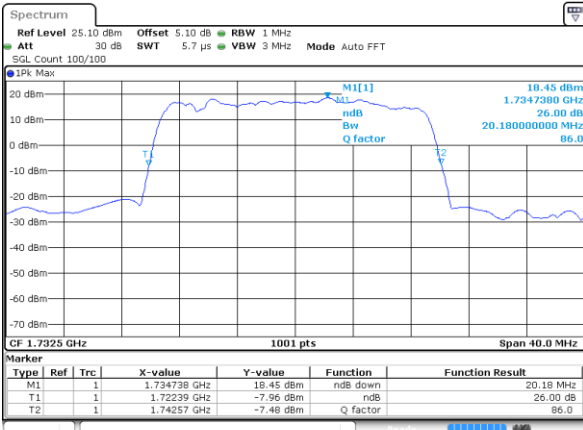
Date: 6 DEC 2017 14:04:01

Lowest Channel / 20MHz / 16QAM



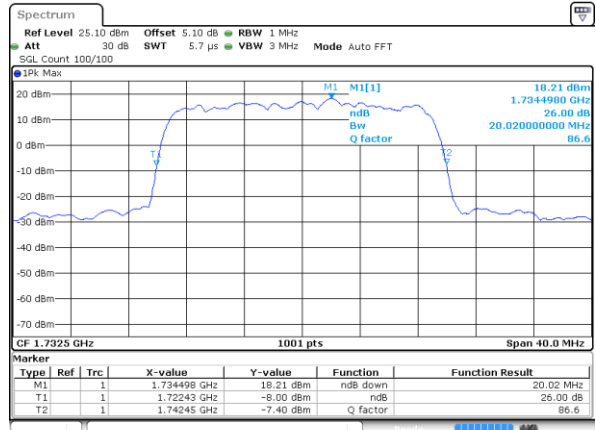
Date: 6 DEC 2017 14:04:11

Middle Channel / 20MHz / QPSK



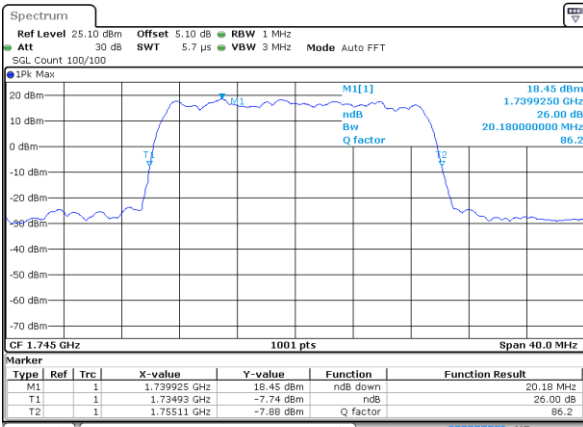
Date: 6 DEC 2017 14:11:01

Middle Channel / 20MHz / 16QAM



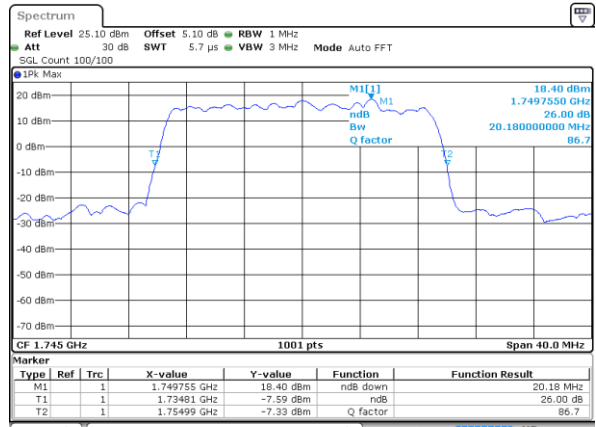
Date: 6 DEC 2017 14:11:11

Highest Channel / 20MHz / QPSK



Date: 6 DEC 2017 14:13:30

Highest Channel / 20MHz / 16QAM

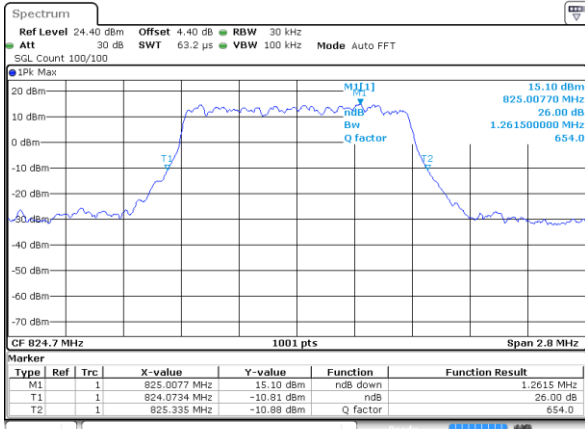


Date: 6 DEC 2017 14:13:40



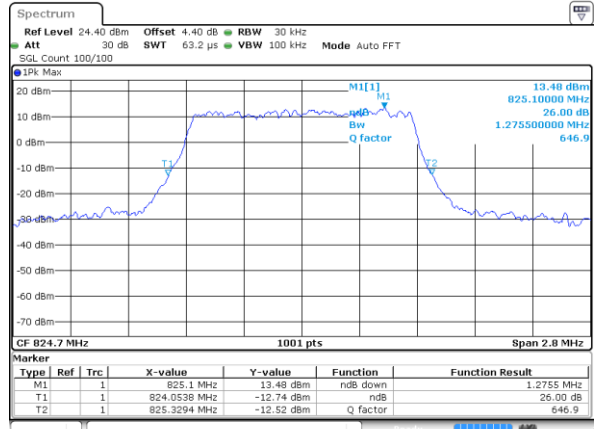
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



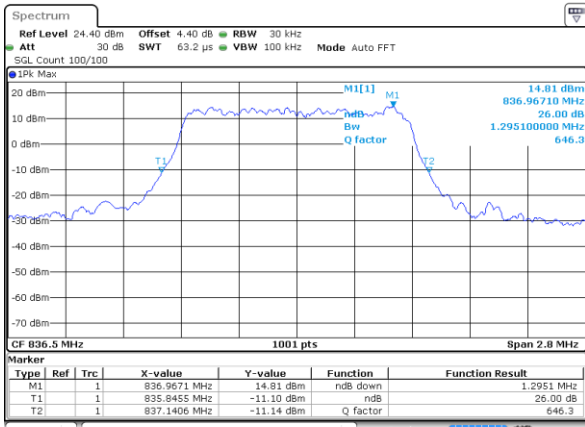
Date: 5 DEC 2017 18:59:24

Lowest Channel / 1.4MHz / 16QAM



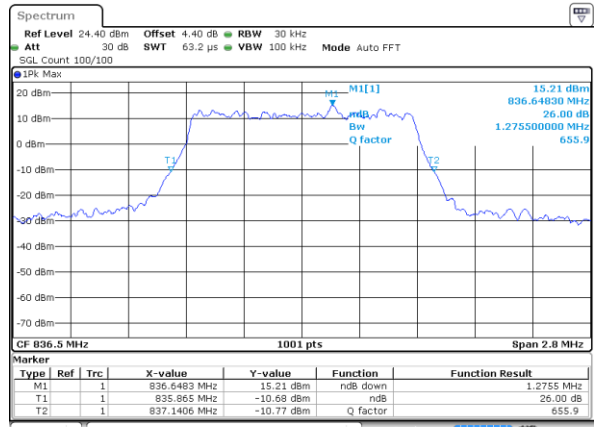
Date: 5 DEC 2017 18:59:13

Middle Channel / 1.4MHz / QPSK



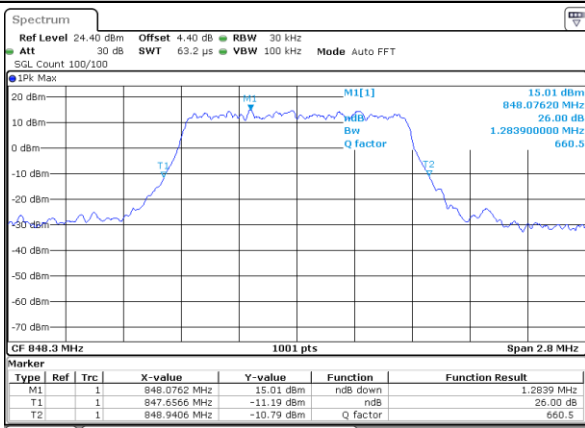
Date: 5 DEC 2017 19:08:19

Middle Channel / 1.4MHz / 16QAM



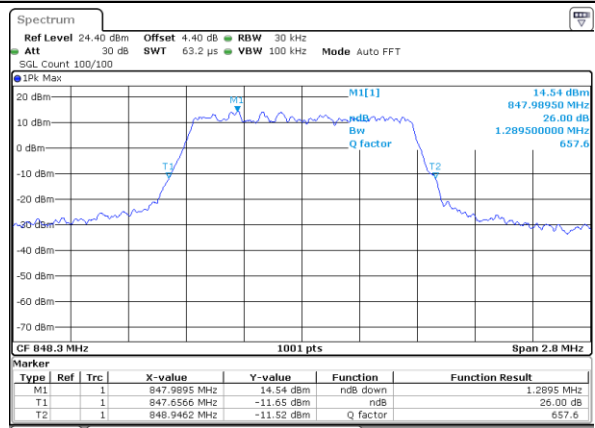
Date: 5 DEC 2017 19:08:30

Highest Channel / 1.4MHz / QPSK



Date: 5 DEC 2017 19:10:53

Highest Channel / 1.4MHz / 16QAM

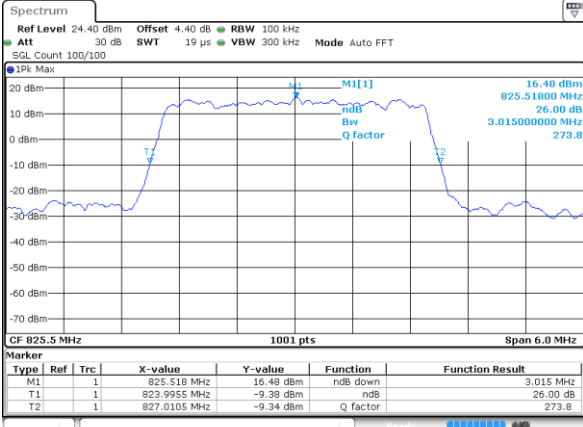


Date: 5 DEC 2017 19:11:04



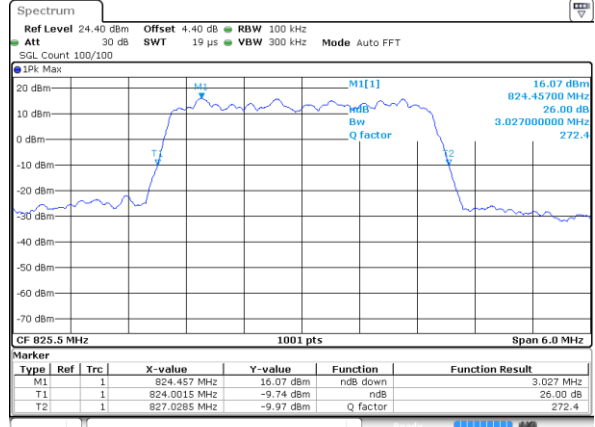
LTE Band 5

Lowest Channel / 3MHz / QPSK



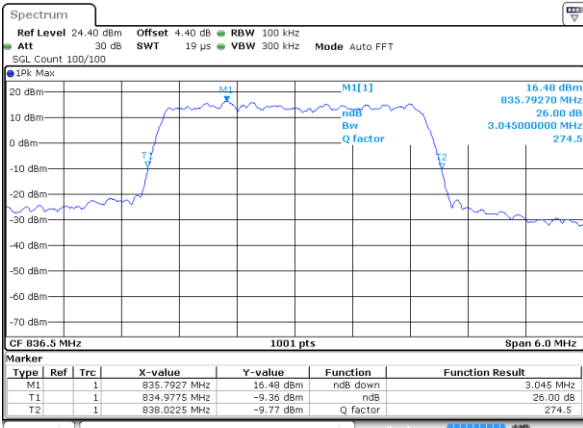
Date: 5 DEC 2017 19:20:01

Lowest Channel / 3MHz / 16QAM



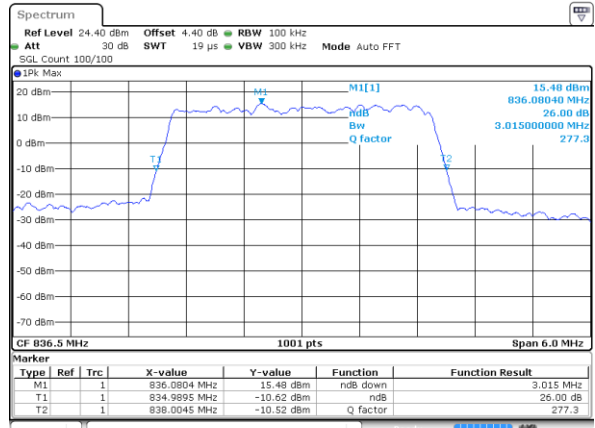
Date: 5 DEC 2017 19:20:11

Middle Channel / 3MHz / QPSK



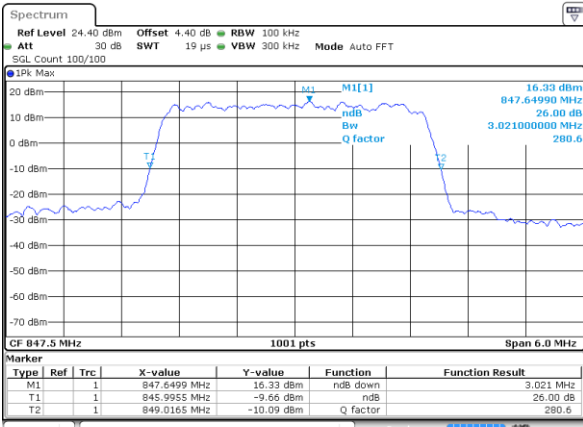
Date: 5 DEC 2017 19:29:07

Middle Channel / 3MHz / 16QAM



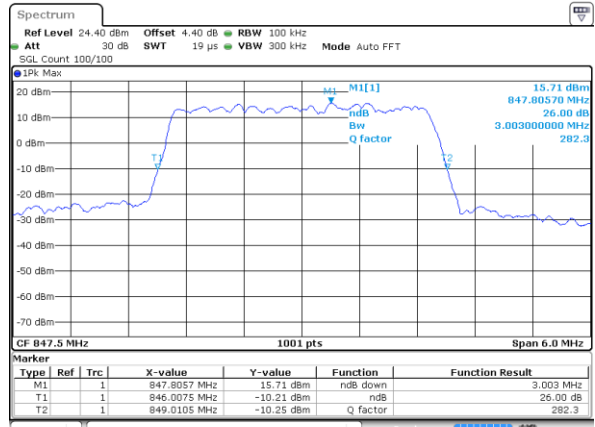
Date: 5 DEC 2017 19:29:18

Highest Channel / 3MHz / QPSK



Date: 5 DEC 2017 19:31:42

Highest Channel / 3MHz / 16QAM

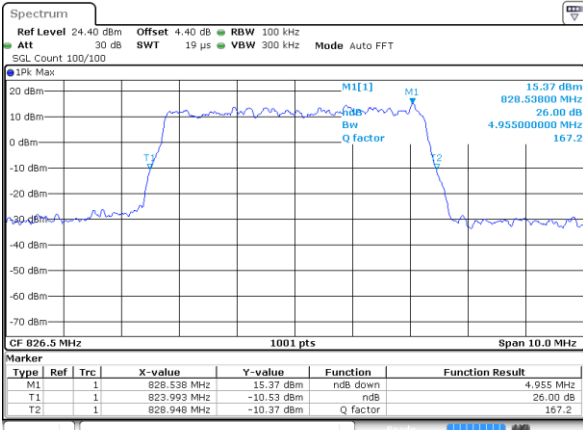


Date: 5 DEC 2017 19:31:52



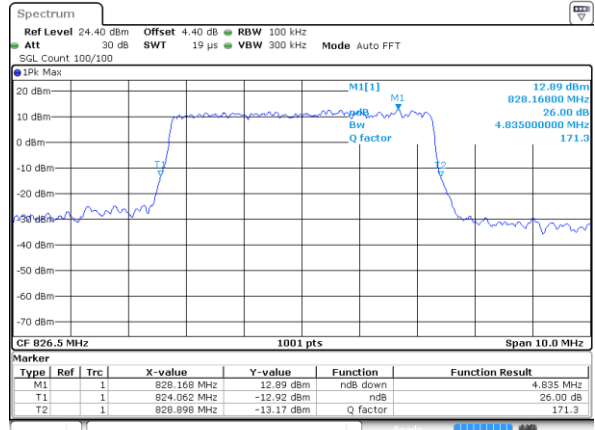
LTE Band 5

Lowest Channel / 5MHz / QPSK



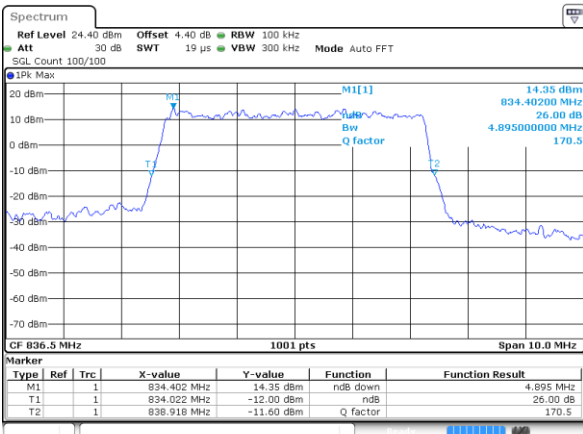
Date: 5 DEC 2017 19:40:49

Lowest Channel / 5MHz / 16QAM



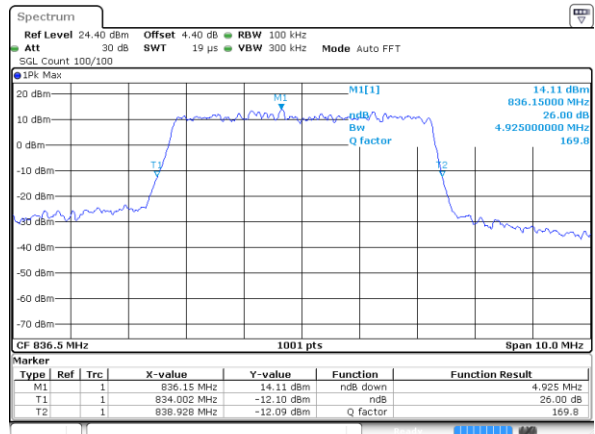
Date: 5 DEC 2017 19:41:00

Middle Channel / 5MHz / QPSK



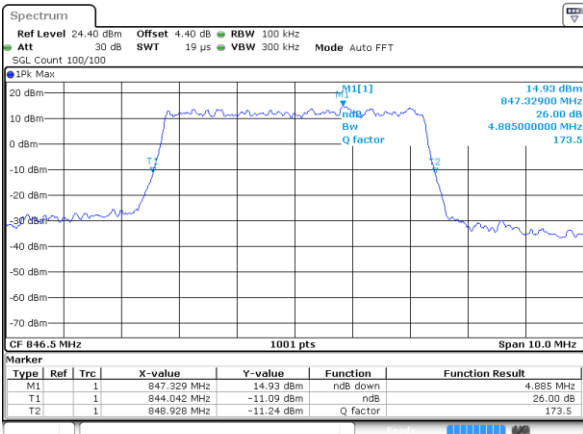
Date: 5 DEC 2017 19:49:56

Middle Channel / 5MHz / 16QAM



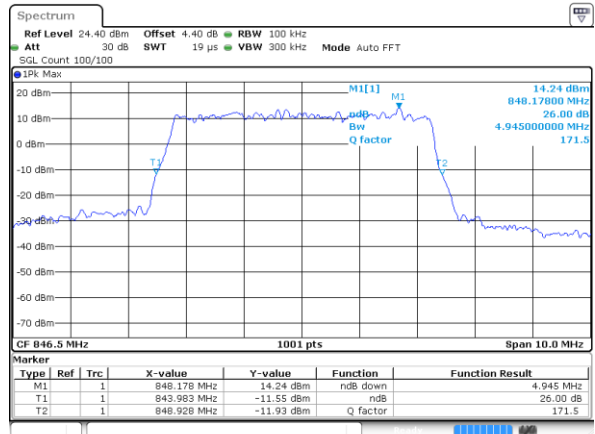
Date: 5 DEC 2017 19:50:07

Highest Channel / 5MHz / QPSK



Date: 5 DEC 2017 19:52:30

Highest Channel / 5MHz / 16QAM

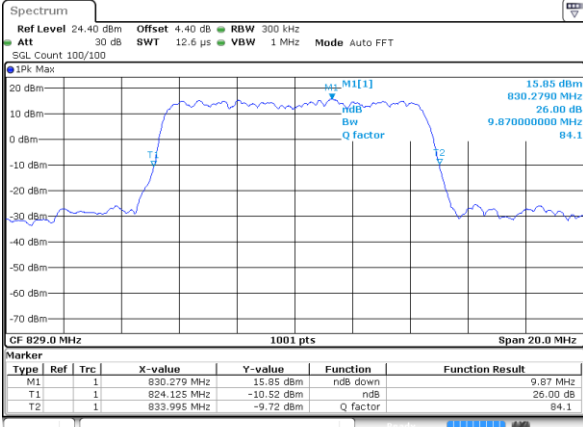


Date: 5 DEC 2017 19:52:41



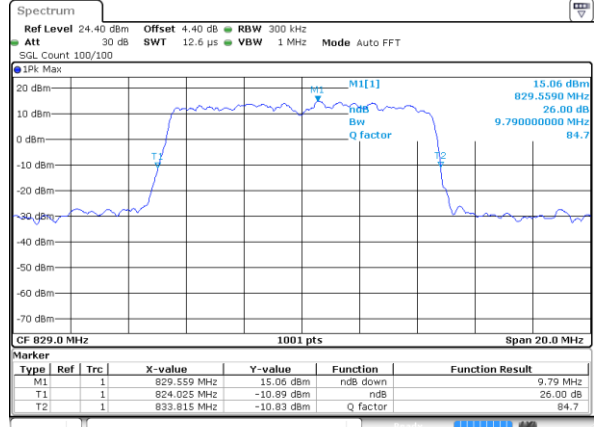
LTE Band 5

Lowest Channel / 10MHz / QPSK



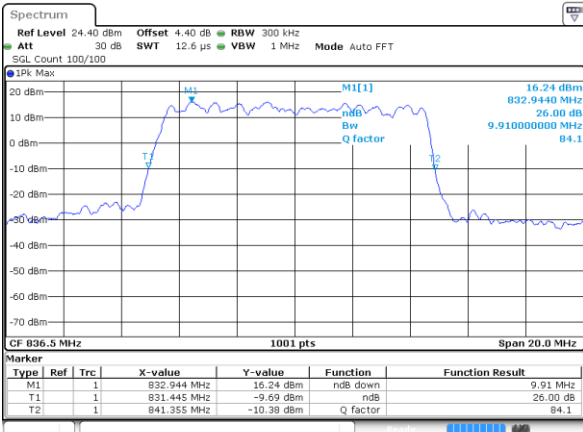
Date: 5 DEC 2017 20:01:37

Lowest Channel / 10MHz / 16QAM



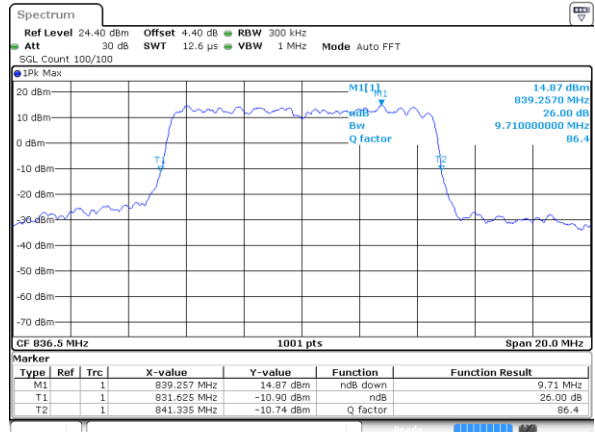
Date: 5 DEC 2017 20:01:47

Middle Channel / 10MHz / QPSK



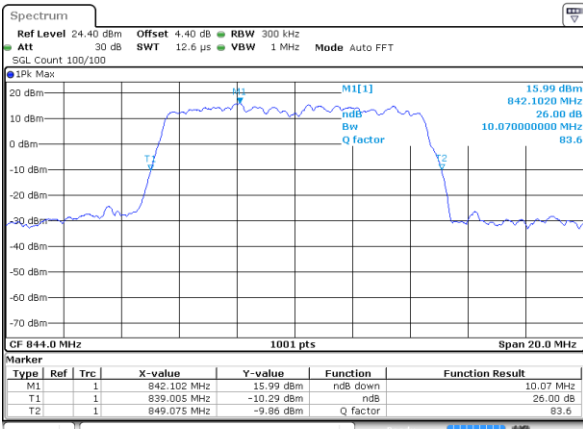
Date: 5 DEC 2017 20:10:45

Middle Channel / 10MHz / 16QAM



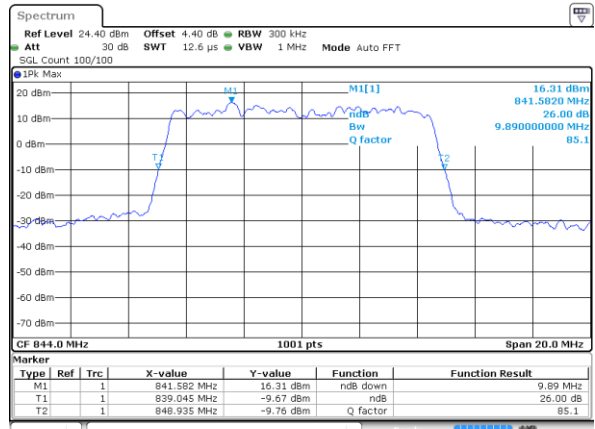
Date: 5 DEC 2017 20:10:55

Highest Channel / 10MHz / QPSK



Date: 5 DEC 2017 20:13:19

Highest Channel / 10MHz / 16QAM

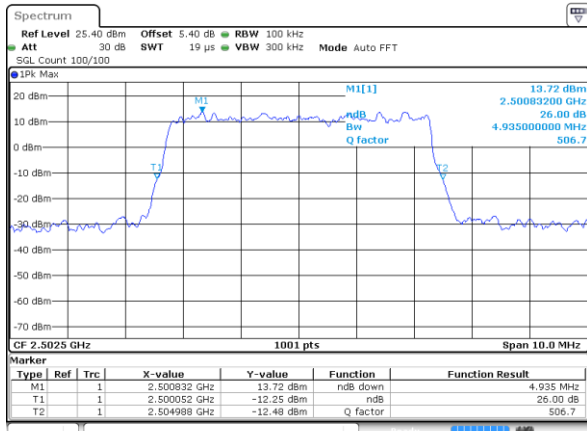


Date: 5 DEC 2017 20:13:30



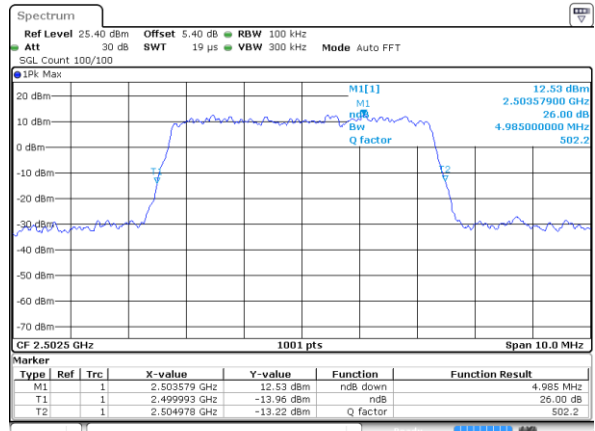
LTE Band 7

Lowest Channel / 5MHz / QPSK



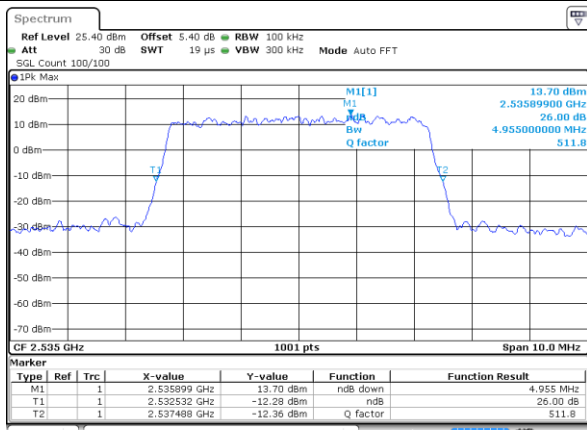
Date: 5 DEC 2017 17:06:28

Lowest Channel / 5MHz / 16QAM



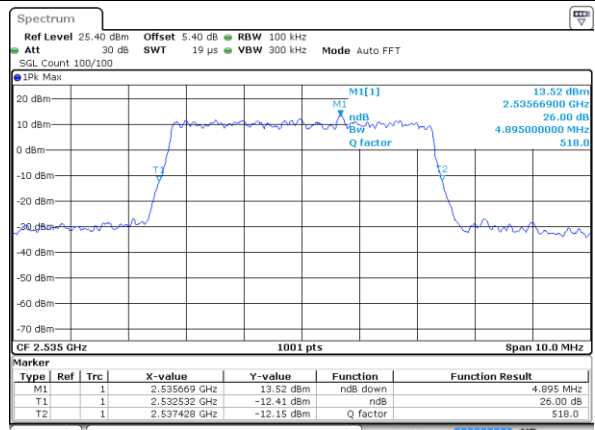
Date: 5 DEC 2017 17:06:49

Middle Channel / 5MHz / QPSK



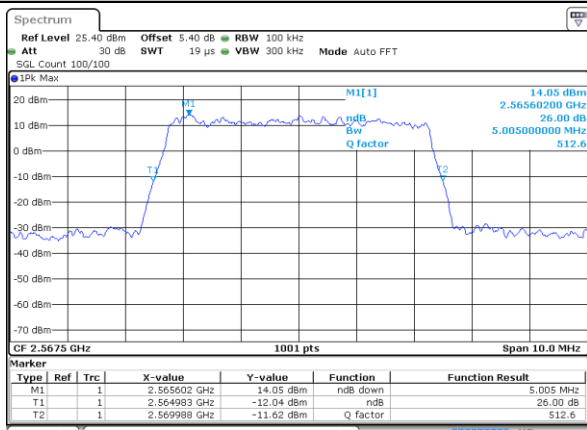
Date: 5 DEC 2017 17:07:31

Middle Channel / 5MHz / 16QAM



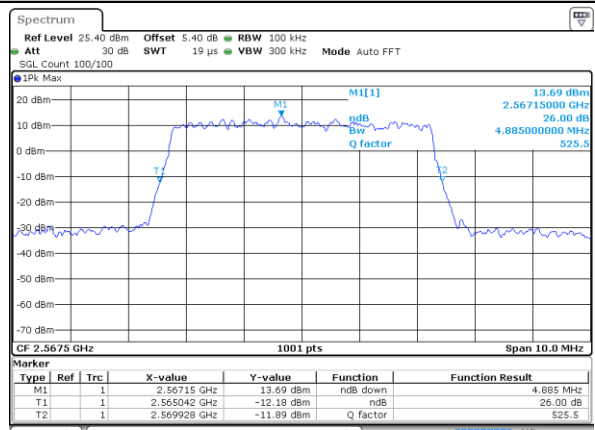
Date: 5 DEC 2017 17:07:10

Highest Channel / 5MHz / QPSK



Date: 5 DEC 2017 17:07:52

Highest Channel / 5MHz / 16QAM

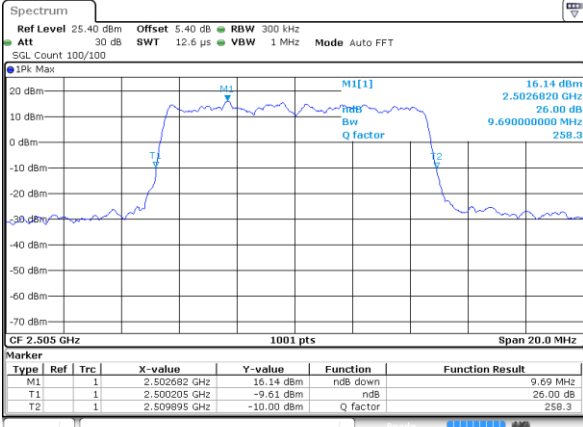


Date: 5 DEC 2017 17:08:14



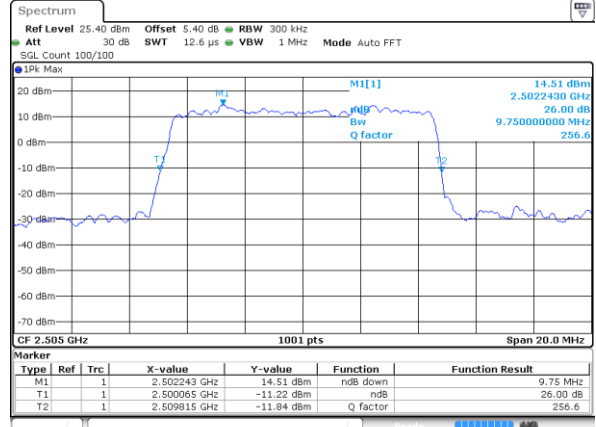
LTE Band 7

Lowest Channel / 10MHz / QPSK



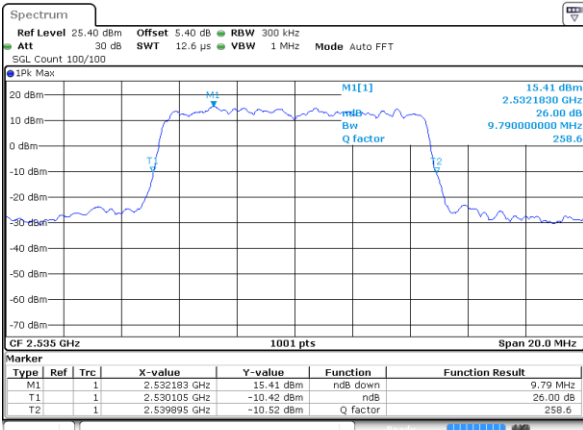
Date: 5 DEC 2017 17:23:15

Lowest Channel / 10MHz / 16QAM



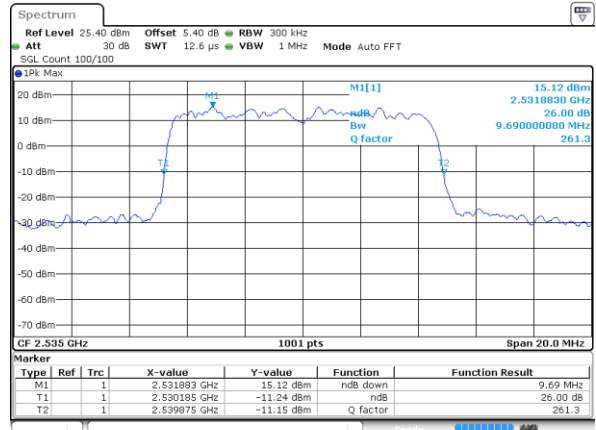
Date: 5 DEC 2017 17:23:36

Middle Channel / 10MHz / QPSK



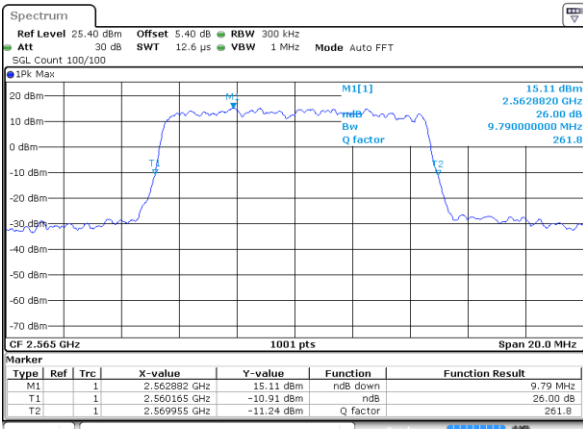
Date: 5 DEC 2017 17:24:18

Middle Channel / 10MHz / 16QAM



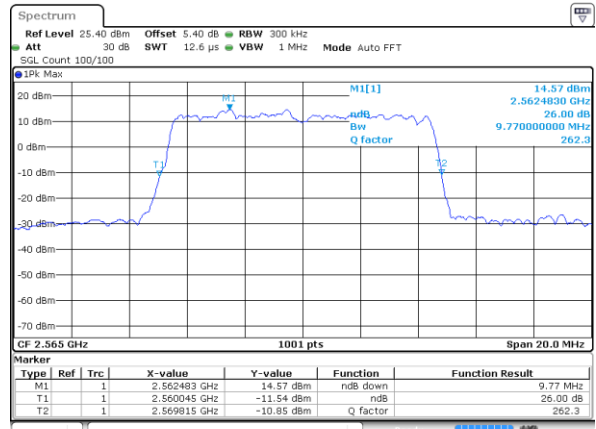
Date: 5 DEC 2017 17:23:57

Highest Channel / 10MHz / QPSK



Date: 5 DEC 2017 17:24:39

Highest Channel / 10MHz / 16QAM

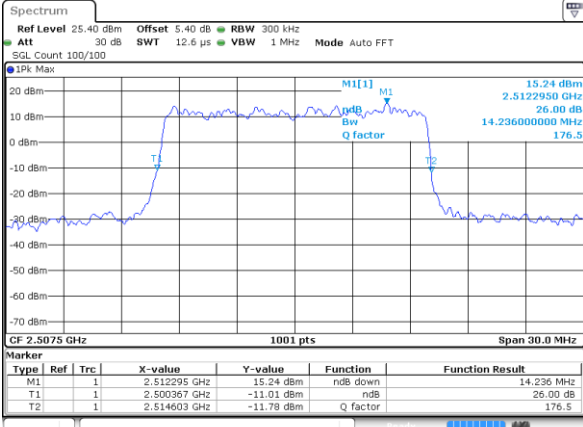


Date: 5 DEC 2017 17:25:00



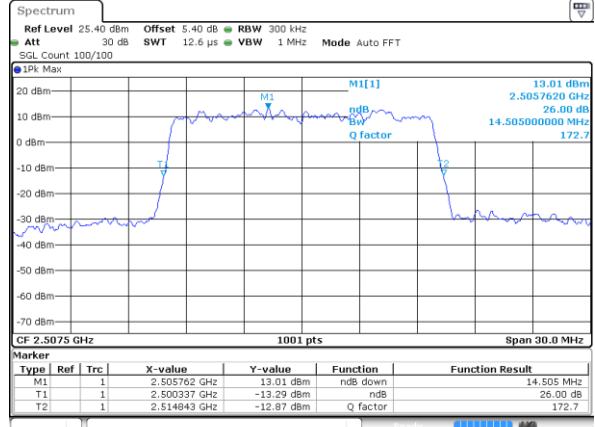
LTE Band 7

Lowest Channel / 15MHz / QPSK



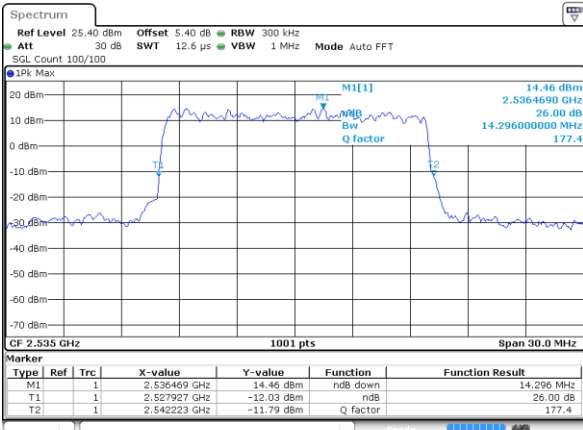
Date: 5 DEC 2017 17:40:24

Lowest Channel / 15MHz / 16QAM



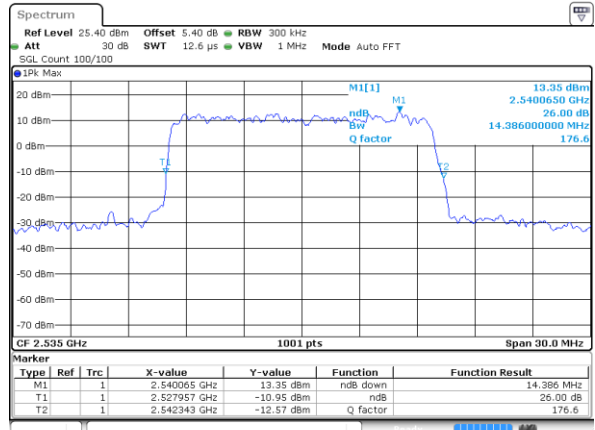
Date: 5 DEC 2017 17:40:03

Middle Channel / 15MHz / QPSK



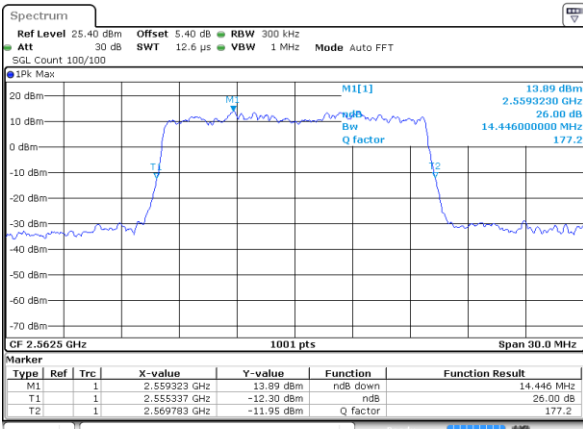
Date: 5 DEC 2017 17:40:45

Middle Channel / 15MHz / 16QAM



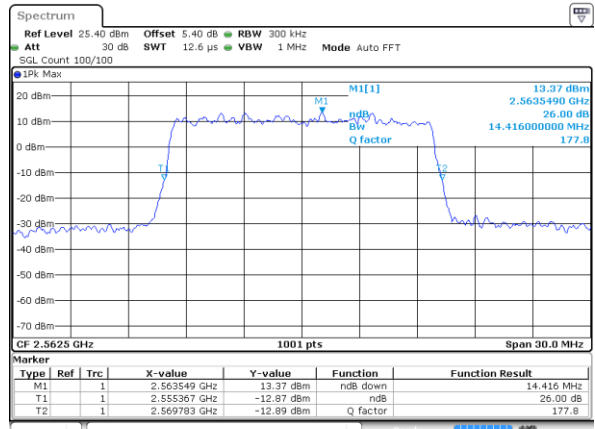
Date: 5 DEC 2017 17:41:05

Highest Channel / 15MHz / QPSK



Date: 5 DEC 2017 17:41:49

Highest Channel / 15MHz / 16QAM

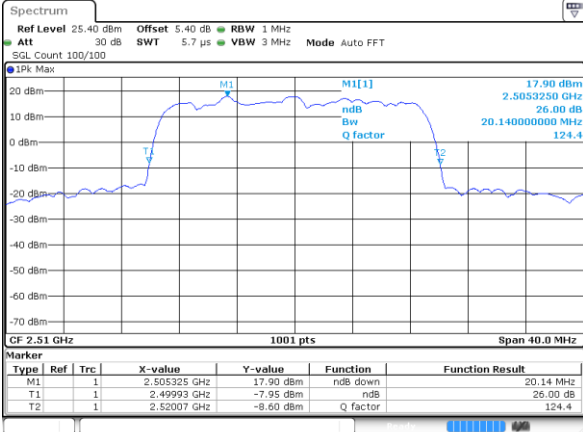


Date: 5 DEC 2017 17:41:27



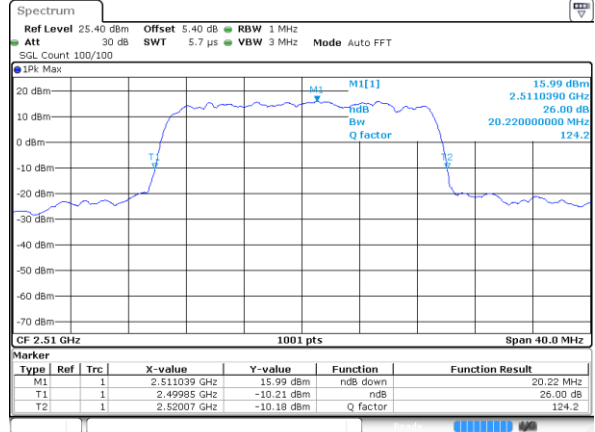
LTE Band 7

Lowest Channel / 20MHz / QPSK



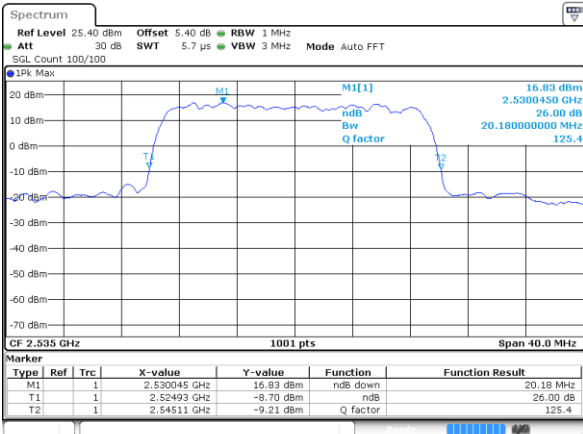
Date: 5 DEC 2017 17:57:09

Lowest Channel / 20MHz / 16QAM



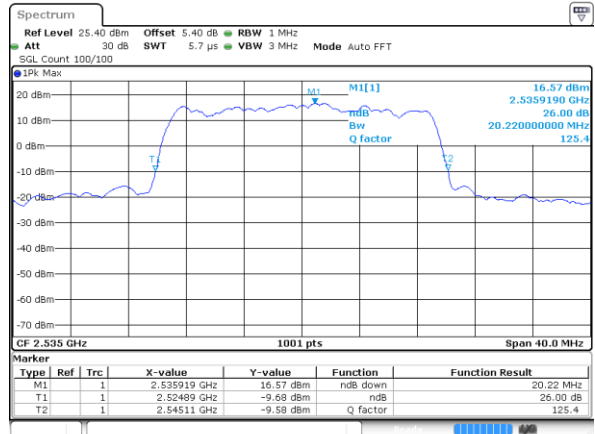
Date: 5 DEC 2017 17:56:48

Middle Channel / 20MHz / QPSK



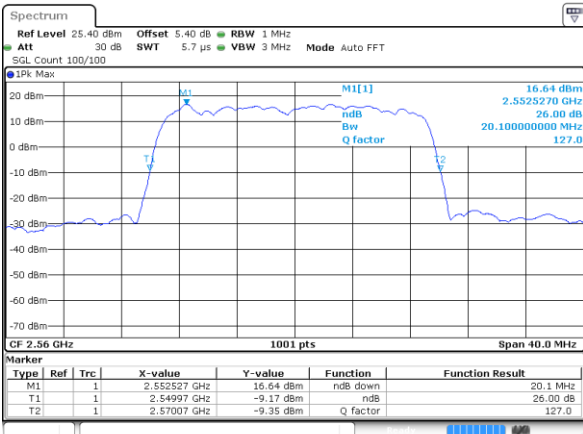
Date: 5 DEC 2017 17:57:30

Middle Channel / 20MHz / 16QAM



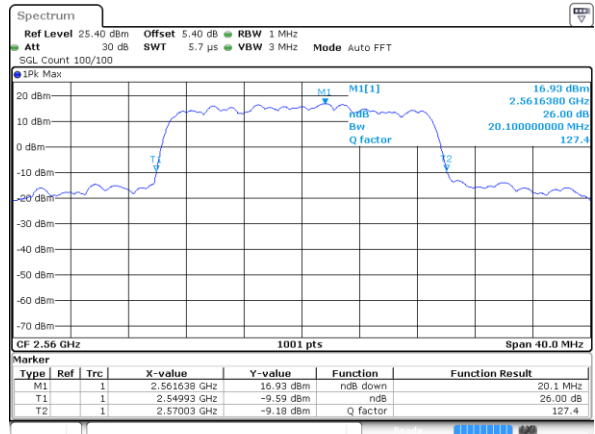
Date: 5 DEC 2017 17:57:52

Highest Channel / 20MHz / QPSK



Date: 5 DEC 2017 18:23:30

Highest Channel / 20MHz / 16QAM



Date: 5 DEC 2017 17:58:13



Occupied Bandwidth

| Mode | LTE Band 2 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.1 | 1.09 | 2.73 | 2.71 | 4.49 | 4.49 | 8.97 | 8.95 | 13.37 | 13.37 | 18.26 | 18.14 |
| Middle CH | 1.09 | 1.1 | 2.7 | 2.73 | 4.49 | 4.5 | 8.99 | 9.01 | 13.49 | 13.37 | 18.1 | 18.22 |
| Highest CH | 1.1 | 1.1 | 2.7 | 2.72 | 4.48 | 4.49 | 8.99 | 8.99 | 13.43 | 13.4 | 18.22 | 18.26 |

| Mode | LTE Band 4 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.1 | 1.09 | 2.7 | 2.72 | 4.48 | 4.49 | 8.97 | 9.05 | 13.46 | 13.46 | 18.3 | 18.54 |
| Middle CH | 1.09 | 1.09 | 2.73 | 2.72 | 4.49 | 4.49 | 8.95 | 8.99 | 13.4 | 13.46 | 18.22 | 18.3 |
| Highest CH | 1.09 | 1.1 | 2.7 | 2.72 | 4.49 | 4.5 | 9.01 | 9.03 | 13.37 | 13.43 | 18.26 | 18.26 |

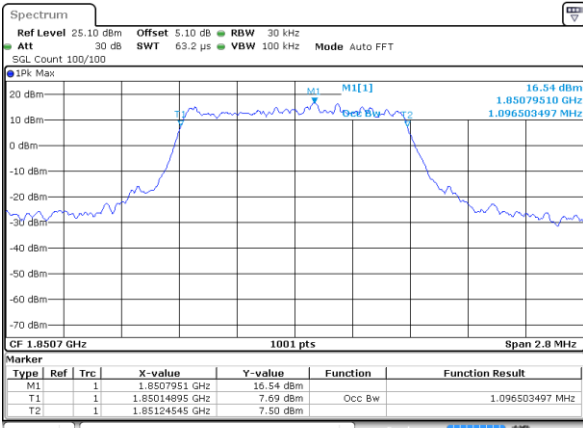
| Mode | LTE Band 5 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.09 | 1.1 | 2.72 | 2.71 | 4.48 | 4.48 | 8.99 | 9.05 | - | - | - | - |
| Middle CH | 1.09 | 1.09 | 2.72 | 2.74 | 4.48 | 4.49 | 9.07 | 9.01 | - | - | - | - |
| Highest CH | 1.09 | 1.1 | 2.72 | 2.73 | 4.5 | 4.49 | 8.99 | 9.01 | - | - | - | - |

| Mode | LTE Band 7 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.52 | 4.48 | 9.01 | 8.99 | 13.52 | 13.46 | 18.5 | 18.26 |
| Middle CH | - | - | - | - | 4.49 | 4.48 | 9.01 | 9.01 | 13.43 | 13.43 | 18.22 | 18.34 |
| Highest CH | - | - | - | - | 4.49 | 4.49 | 9.03 | 8.93 | 13.37 | 13.46 | 18.54 | 18.46 |



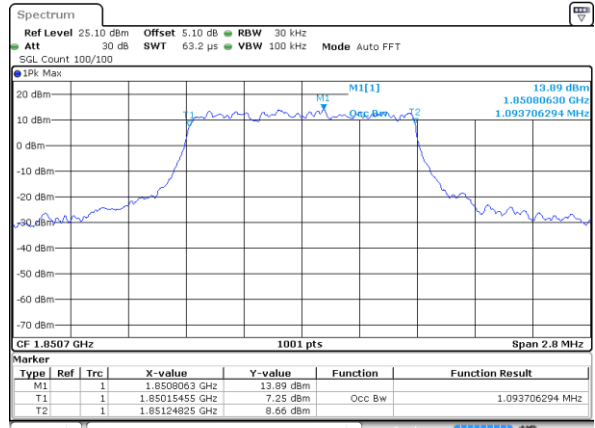
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



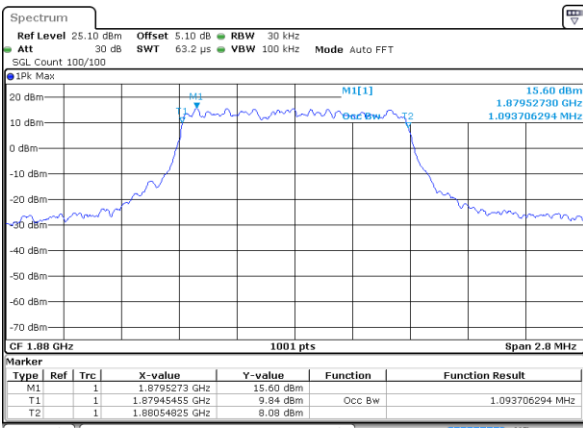
Date: 6 DEC 2017 08:10:52

Lowest Channel / 1.4MHz / 16QAM



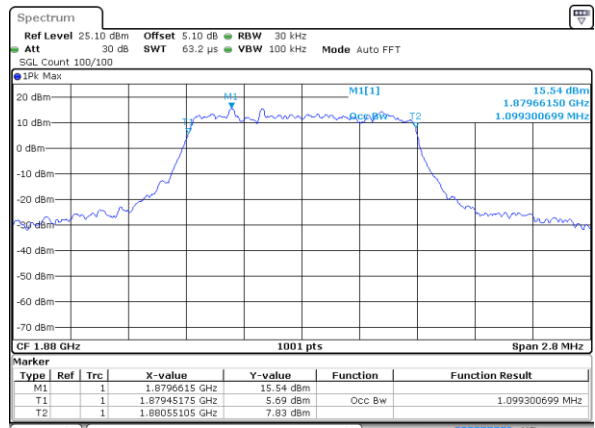
Date: 6 DEC 2017 08:11:02

Middle Channel / 1.4MHz / QPSK



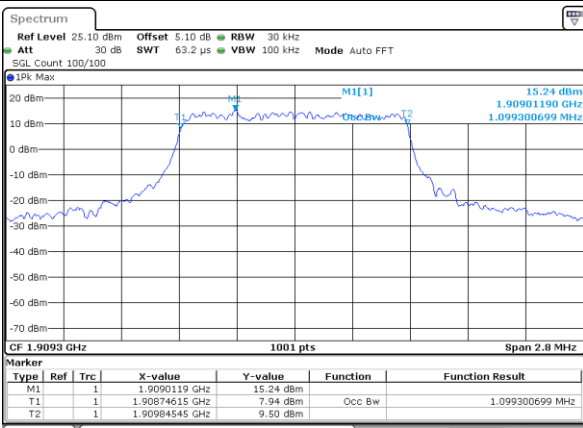
Date: 6 DEC 2017 08:17:53

Middle Channel / 1.4MHz / 16QAM



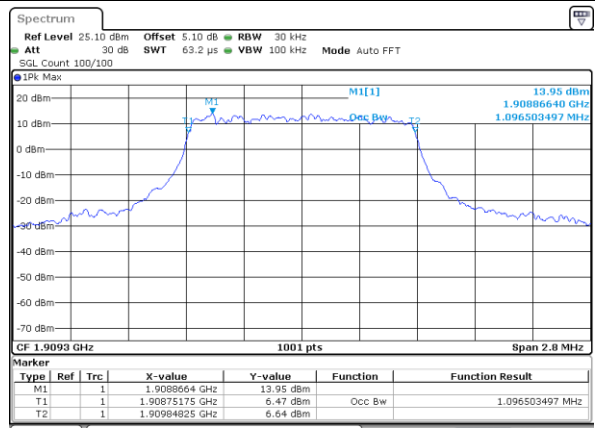
Date: 6 DEC 2017 08:18:03

Highest Channel / 1.4MHz / QPSK



Date: 6 DEC 2017 08:20:22

Highest Channel / 1.4MHz / 16QAM

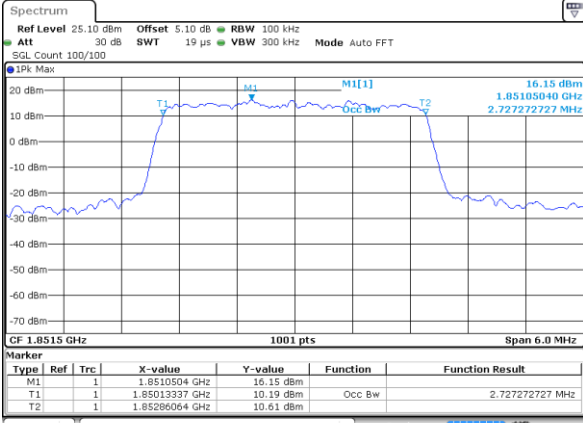


Date: 6 DEC 2017 08:20:33



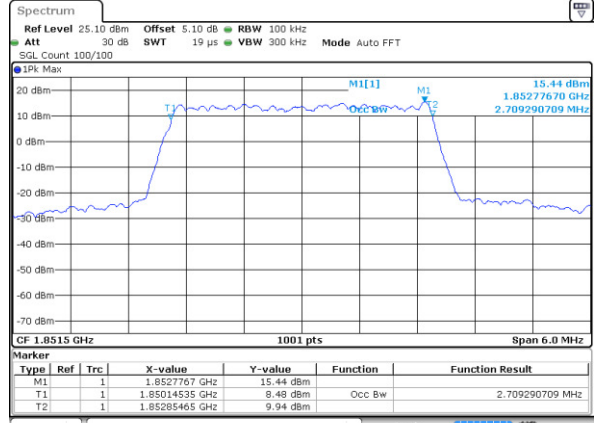
LTE Band 2

Lowest Channel / 3MHz / QPSK



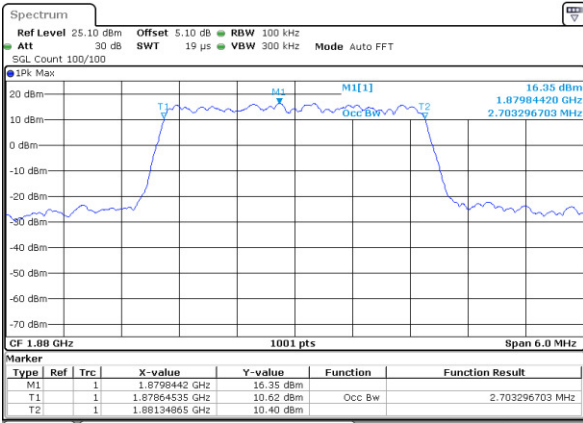
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Lowest Channel / 3MHz / 16QAM



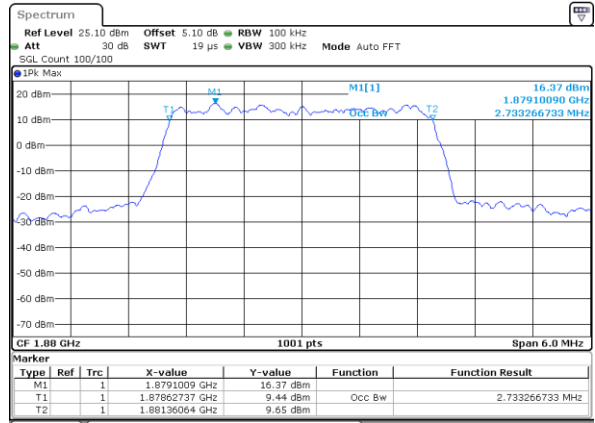
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Middle Channel / 3MHz / QPSK



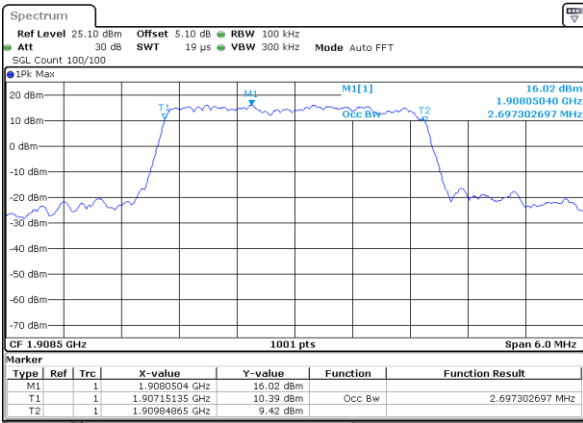
Date: 6 DEC 2017 08:34:22

Middle Channel / 3MHz / 16QAM



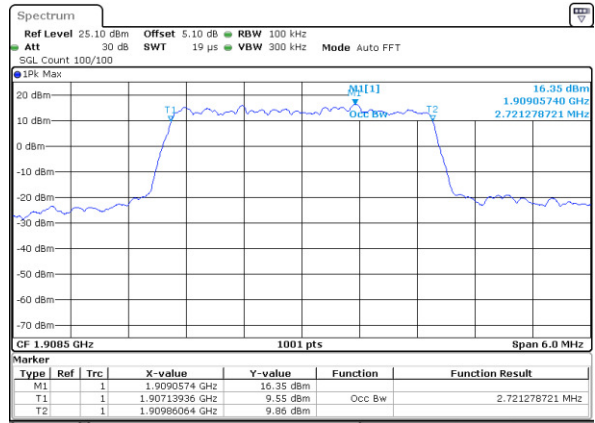
Date: 6 DEC 2017 08:34:33

Highest Channel / 3MHz / QPSK



Date: 6 DEC 2017 08:36:52

Highest Channel / 3MHz / 16QAM

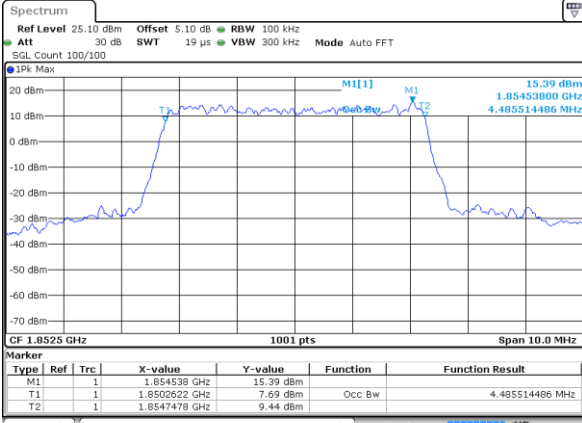


Date: 6 DEC 2017 08:37:02



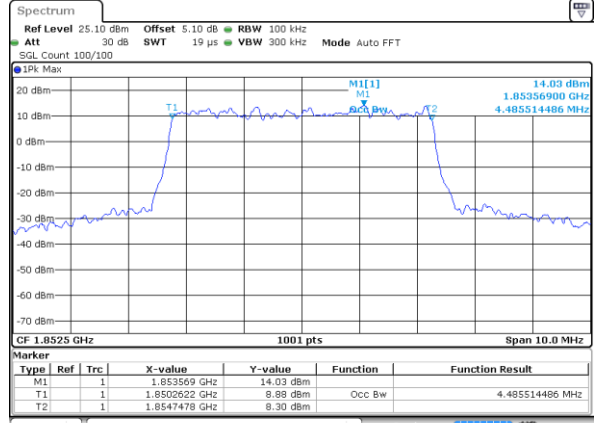
LTE Band 2

Lowest Channel / 5MHz / QPSK



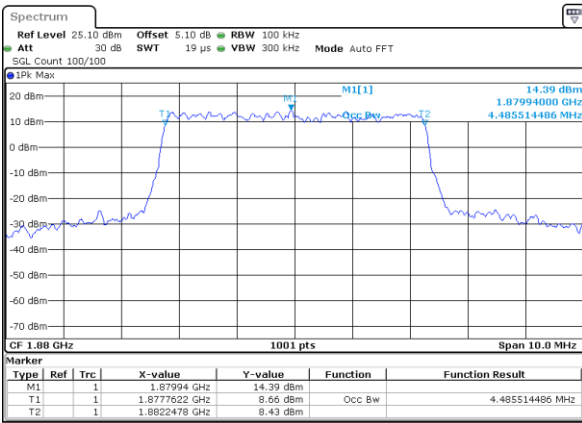
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Lowest Channel / 5MHz / 16QAM



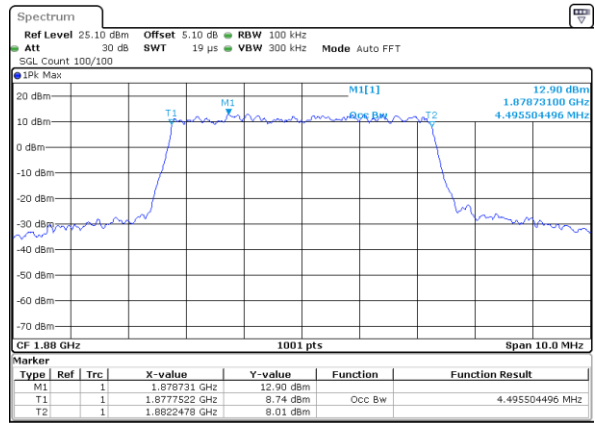
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Middle Channel / 5MHz / QPSK



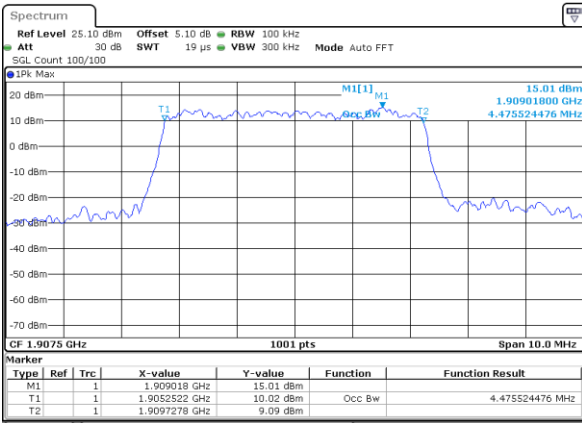
Date: 6 DEC 2017 08:50:53

Middle Channel / 5MHz / 16QAM



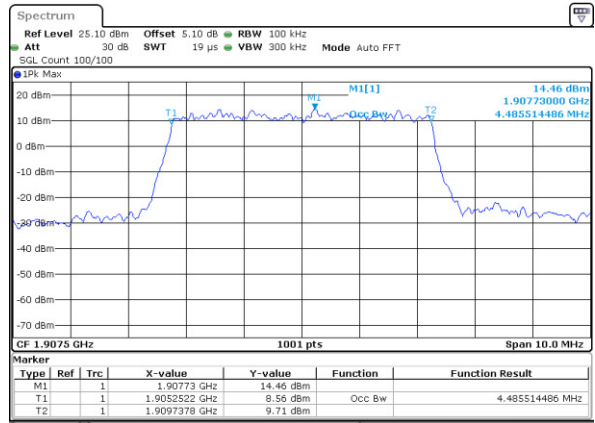
Date: 6 DEC 2017 08:51:03

Highest Channel / 5MHz / QPSK



Date: 6 DEC 2017 08:53:23

Highest Channel / 5MHz / 16QAM

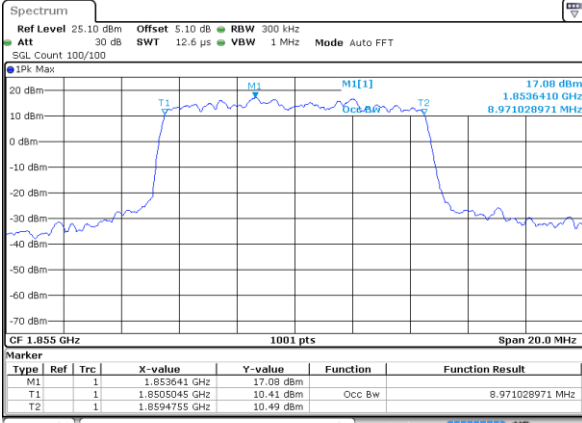


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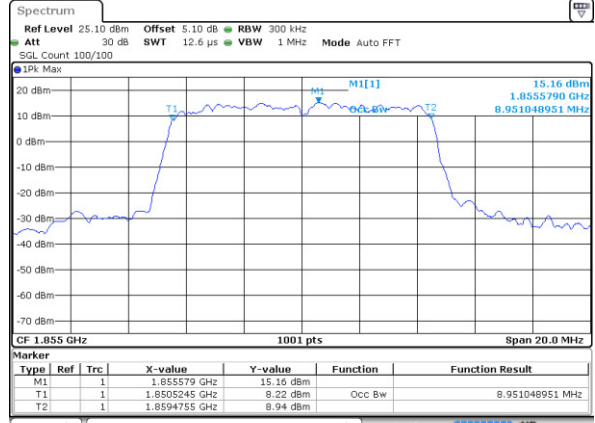
LTE Band 2

Lowest Channel / 10MHz / QPSK



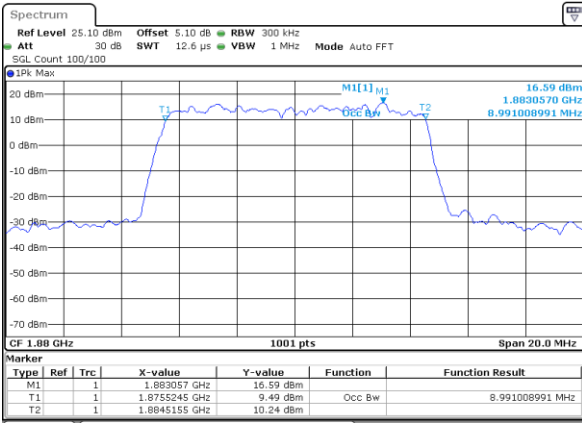
Date: 6 DEC 2017 09:00:23

Lowest Channel / 10MHz / 16QAM



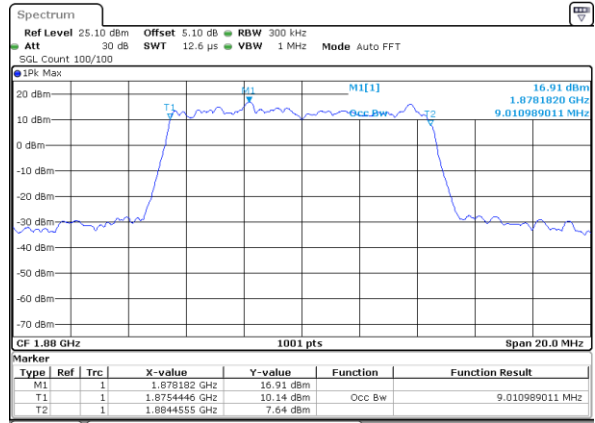
Date: 6 DEC 2017 09:00:33

Middle Channel / 10MHz / QPSK



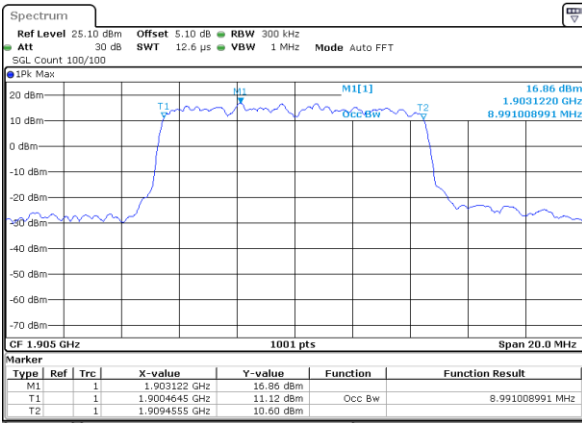
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Middle Channel / 10MHz / 16QAM



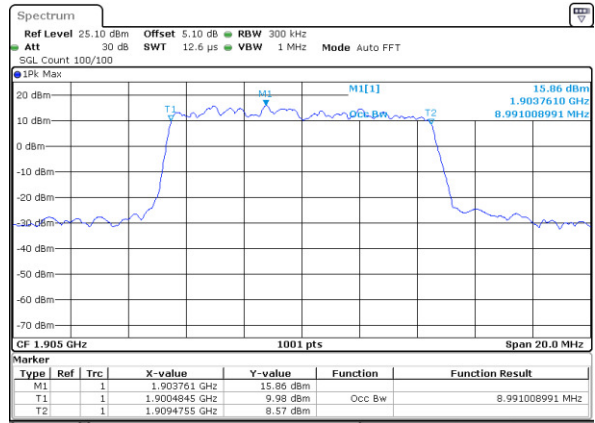
Date: 6 DEC 2017 09:07:33

Highest Channel / 10MHz / QPSK



Date: 6 DEC 2017 09:09:52

Highest Channel / 10MHz / 16QAM

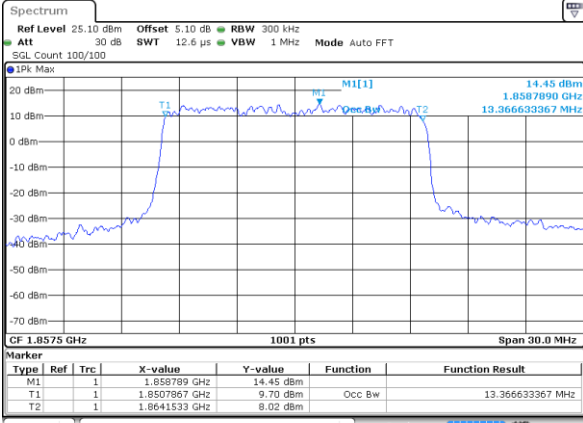


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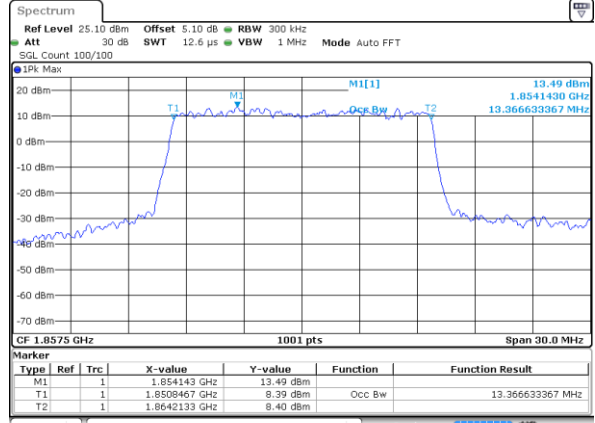
LTE Band 2

Lowest Channel / 15MHz / QPSK



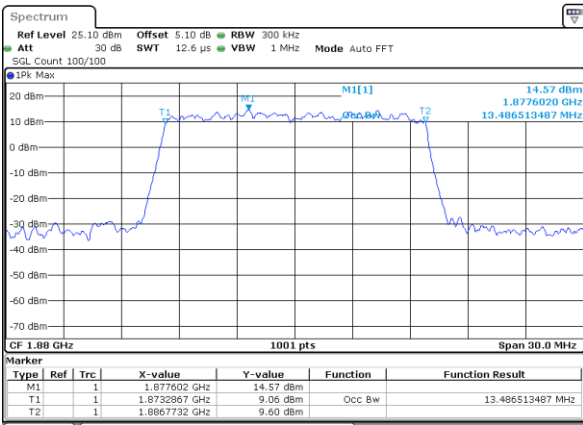
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Lowest Channel / 15MHz / 16QAM



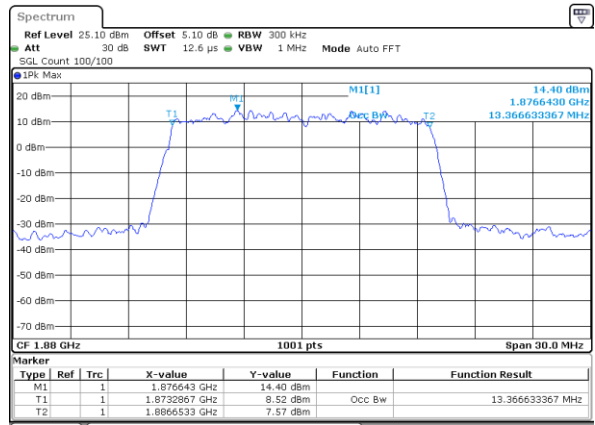
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Middle Channel / 15MHz / QPSK



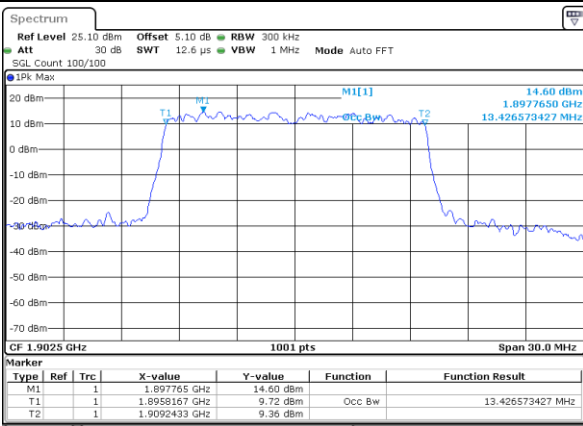
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Middle Channel / 15MHz / 16QAM



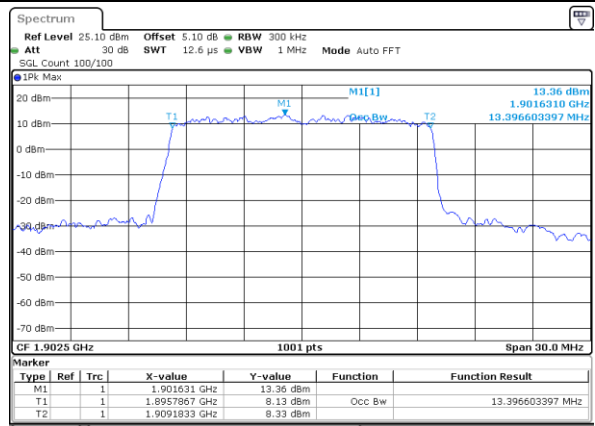
Date: 6 DEC 2017 09:24:03

Highest Channel / 15MHz / QPSK



Date: 6 DEC 2017 09:26:22

Highest Channel / 15MHz / 16QAM

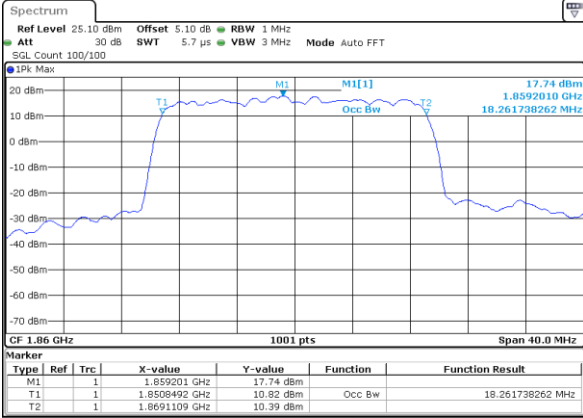


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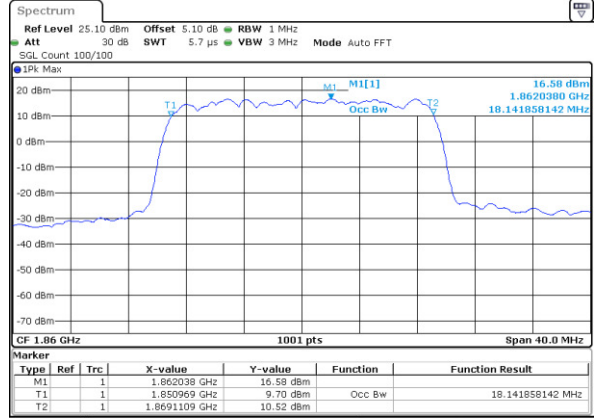
LTE Band 2

Lowest Channel / 20MHz / QPSK



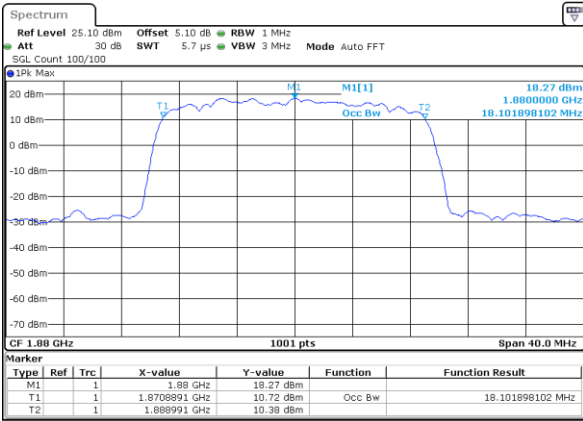
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Lowest Channel / 20MHz / 16QAM



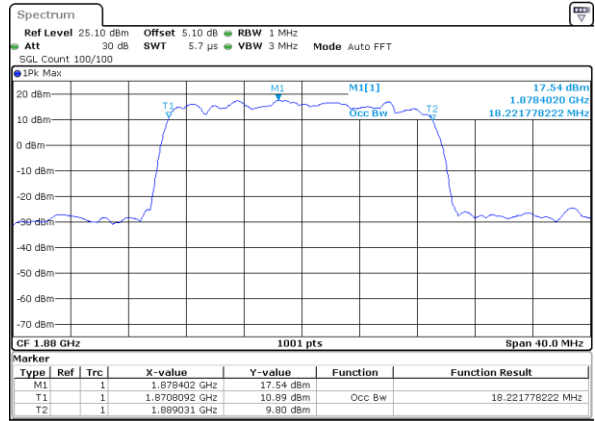
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Middle Channel / 20MHz / QPSK



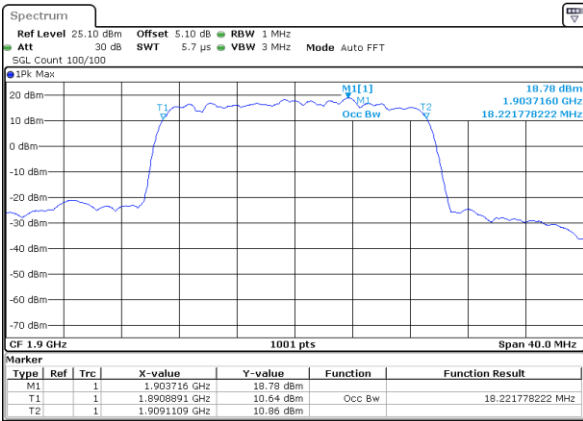
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Middle Channel / 20MHz / 16QAM



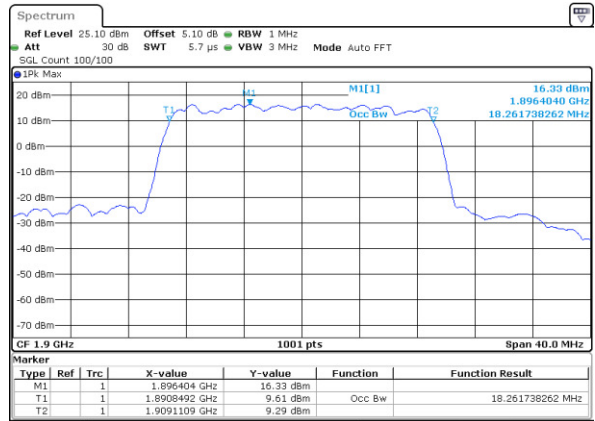
Date: 6 DEC 2017 09:40:32

Highest Channel / 20MHz / QPSK



Date: 6 DEC 2017 09:42:52

Highest Channel / 20MHz / 16QAM

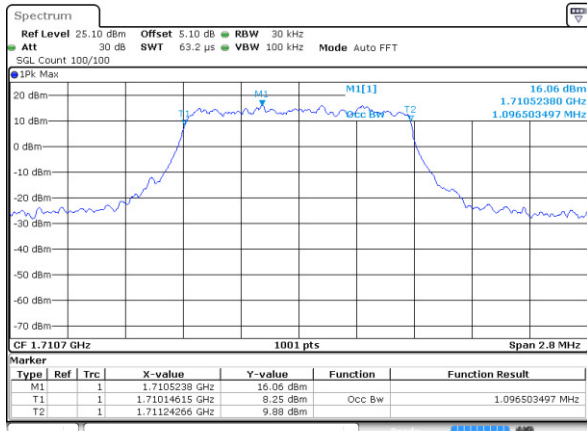


Date: 6 DEC 2017 09:43:02



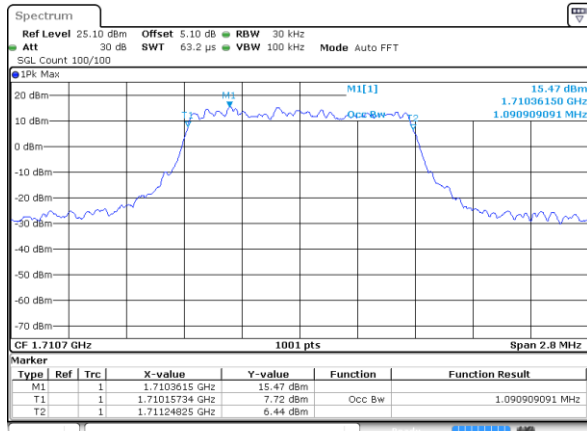
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



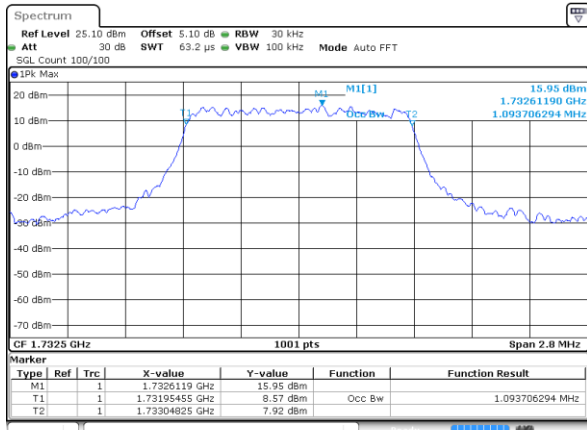
Date: 6 DEC 2017 12:41:15

Lowest Channel / 1.4MHz / 16QAM



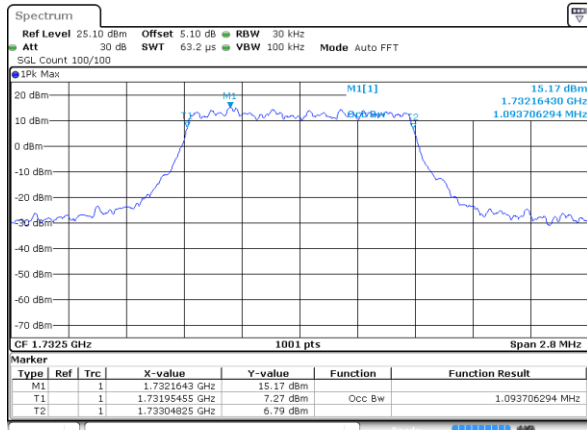
Date: 6 DEC 2017 12:41:25

Middle Channel / 1.4MHz / QPSK



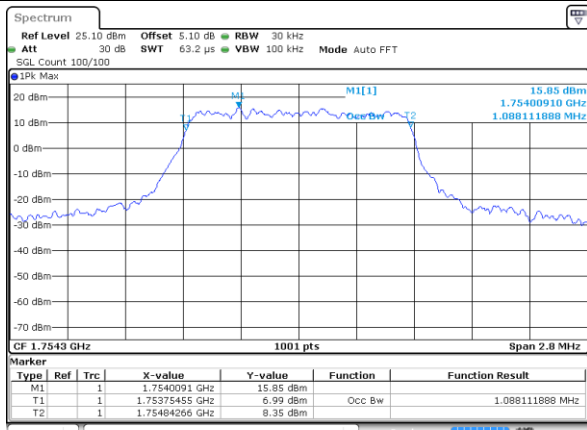
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Middle Channel / 1.4MHz / 16QAM



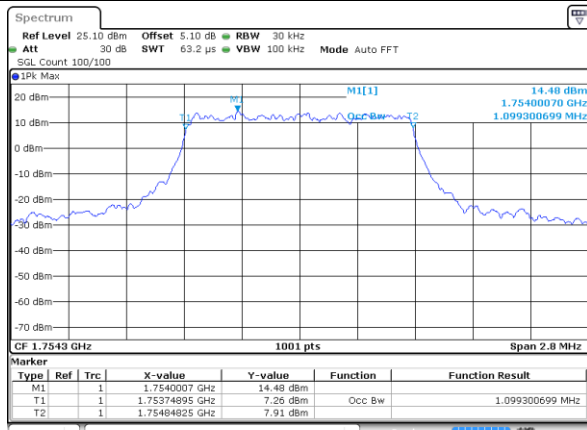
Date: 6 DEC 2017 12:48:25

Highest Channel / 1.4MHz / QPSK



Date: 6 DEC 2017 12:50:45

Highest Channel / 1.4MHz / 16QAM

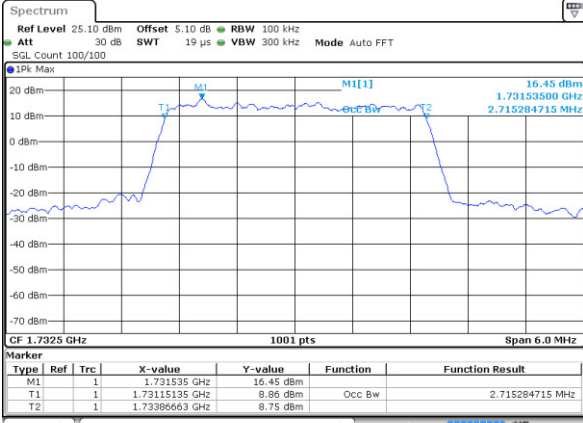


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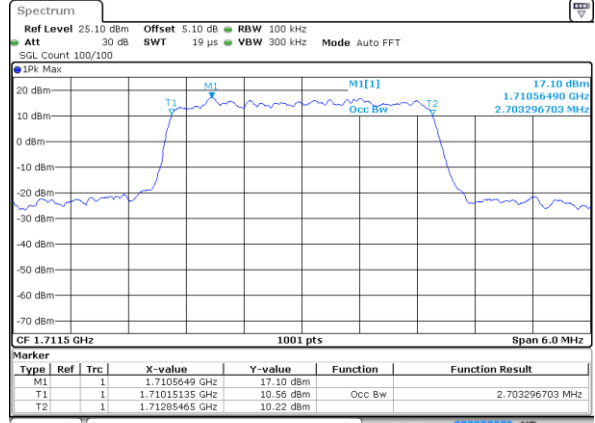


LTE Band 4

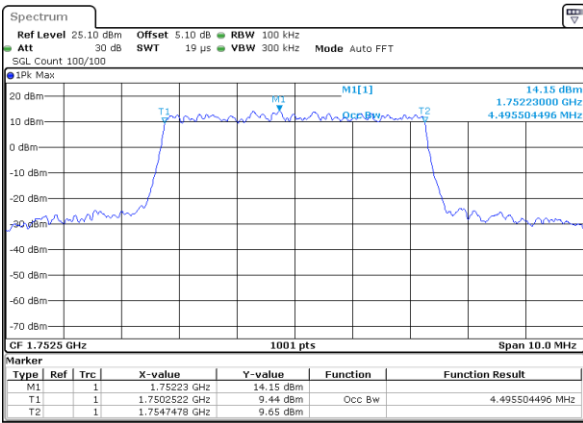
Lowest Channel / 3MHz / QPSK



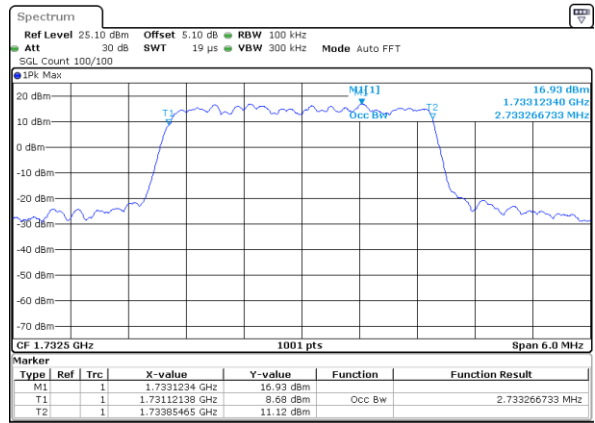
Lowest Channel / 3MHz / 16QAM



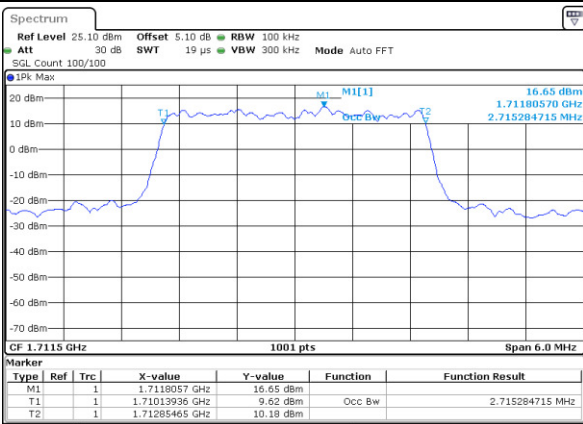
Middle Channel / 3MHz / QPSK



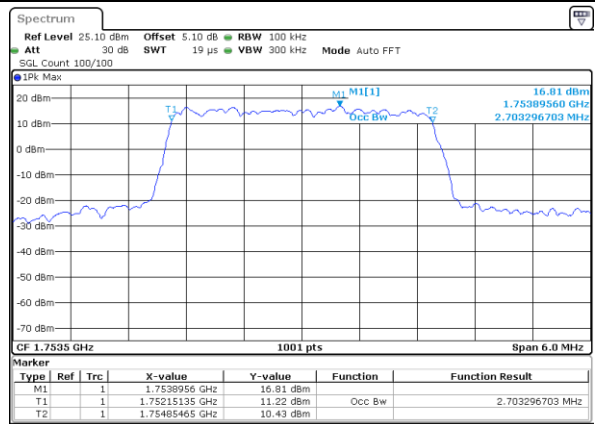
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



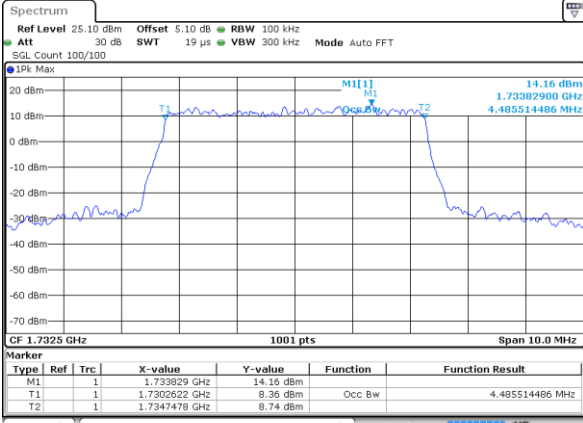
Highest Channel / 3MHz / 16QAM





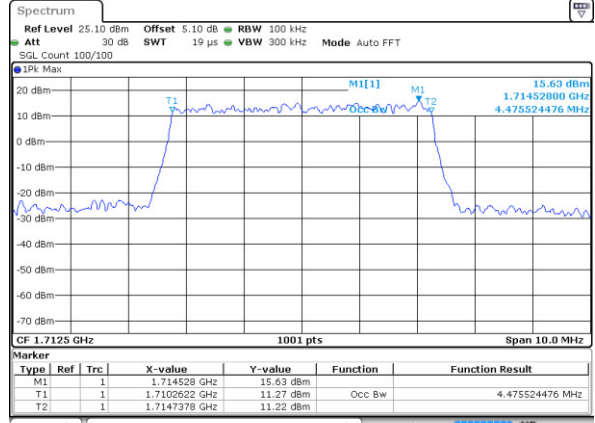
LTE Band 4

Lowest Channel / 5MHz / QPSK



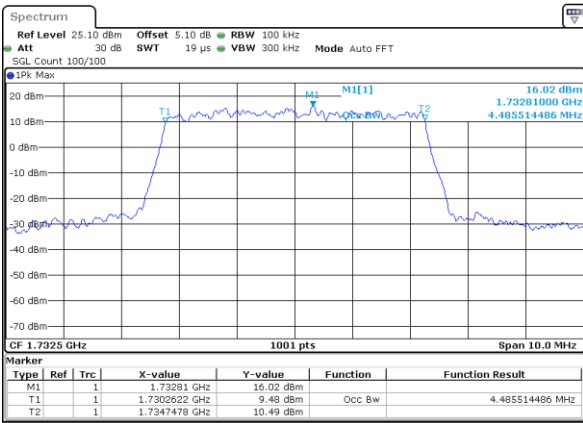
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Lowest Channel / 5MHz / 16QAM



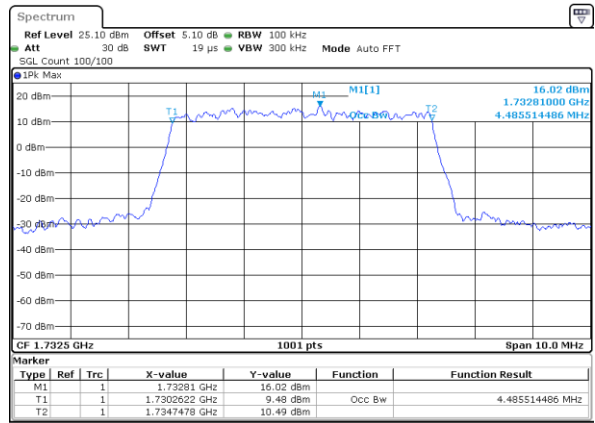
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Middle Channel / 5MHz / QPSK



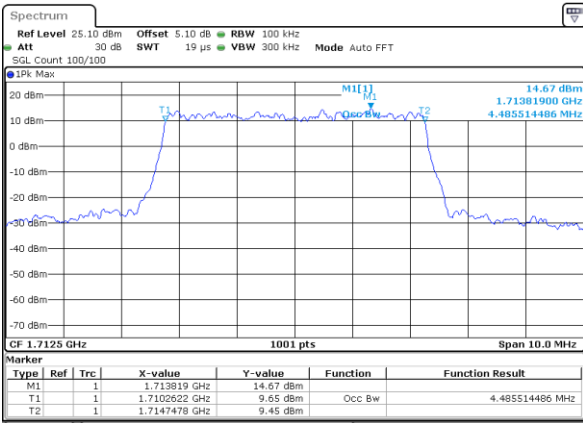
Date: 6 DEC 2017 13:21:13

Middle Channel / 5MHz / 16QAM



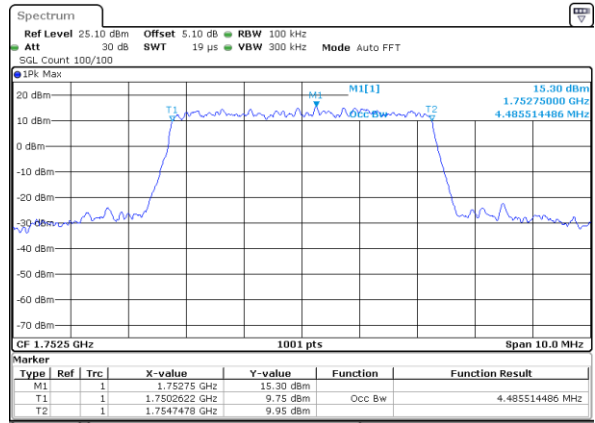
Date: 6 DEC 2017 13:21:13

Highest Channel / 5MHz / QPSK



Date: 6 DEC 2017 13:14:24

Highest Channel / 5MHz / 16QAM



Date: 6 DEC 2017 13:23:43