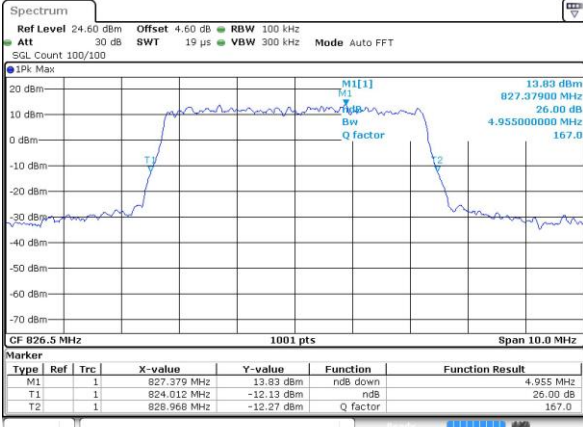




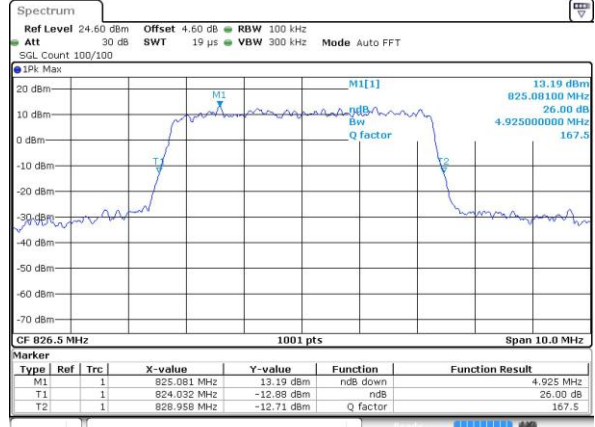
LTE Band 5

Lowest Channel / 5MHz / QPSK



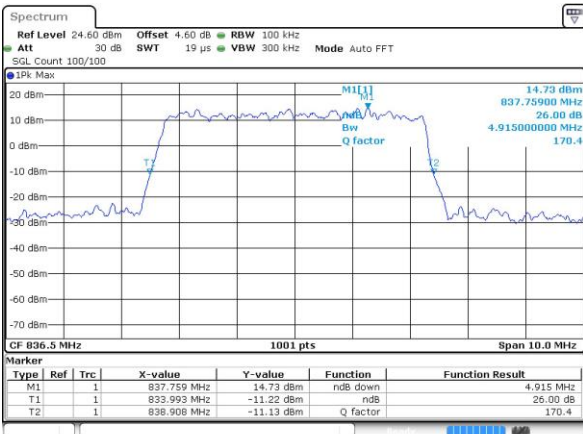
Date: 18 MAR 2017 03:03:58

Lowest Channel / 5MHz / 16QAM



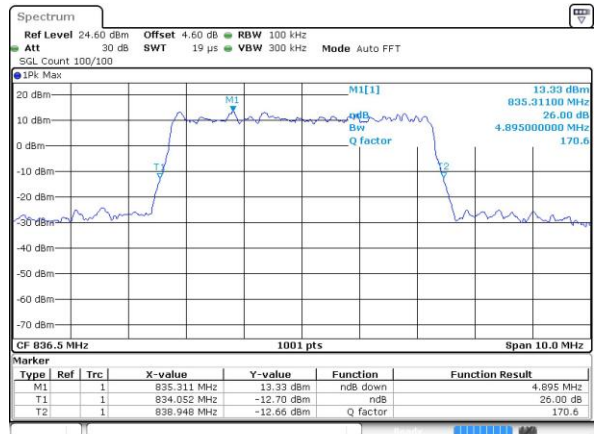
Date: 18 MAR 2017 03:04:09

Middle Channel / 5MHz / QPSK



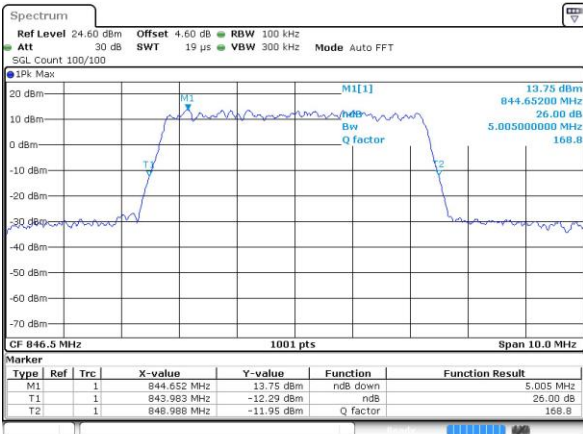
Date: 18 MAR 2017 03:13:03

Middle Channel / 5MHz / 16QAM



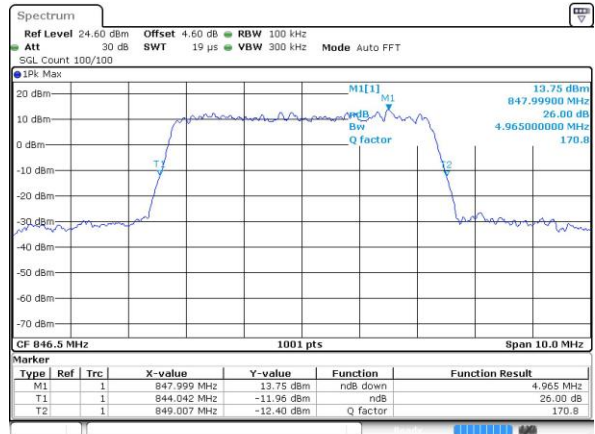
Date: 18 MAR 2017 03:13:13

Highest Channel / 5MHz / QPSK



Date: 18 MAR 2017 03:15:35

Highest Channel / 5MHz / 16QAM

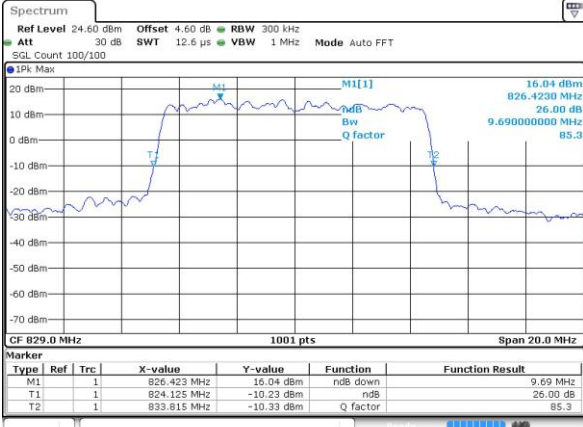


Date: 18 MAR 2017 03:15:46



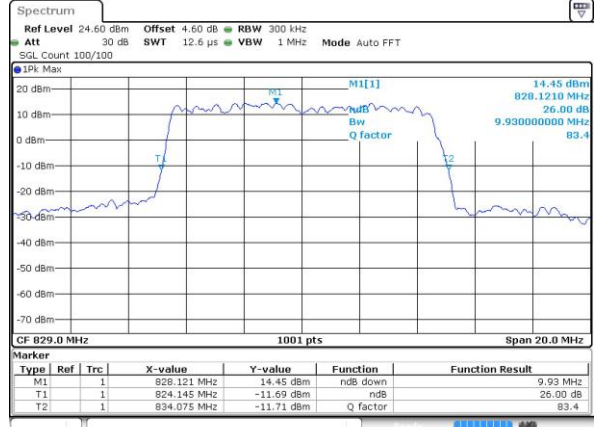
LTE Band 5

Lowest Channel / 10MHz / QPSK



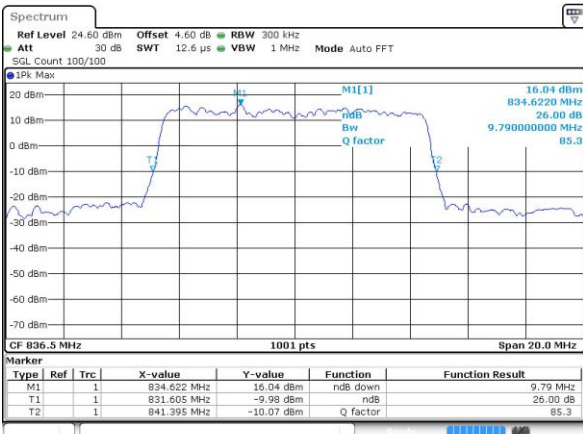
Date: 18 MAR 2017 03:24:40

Lowest Channel / 10MHz / 16QAM



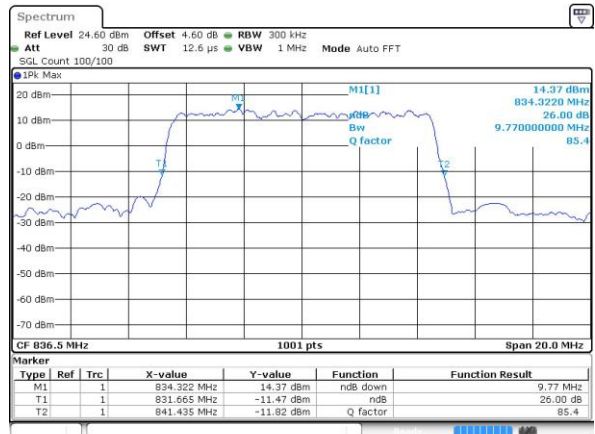
Date: 18 MAR 2017 03:24:51

Middle Channel / 10MHz / QPSK



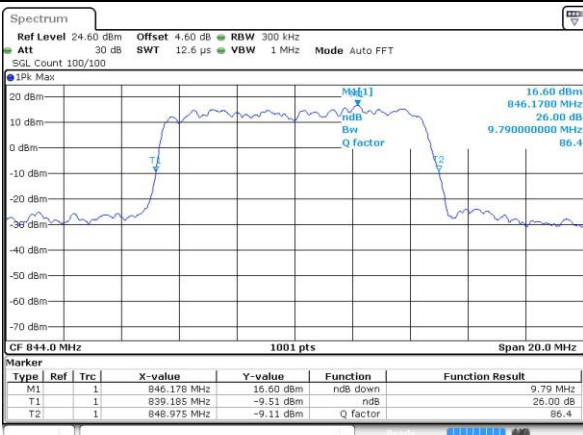
Date: 18 MAR 2017 03:33:45

Middle Channel / 10MHz / 16QAM



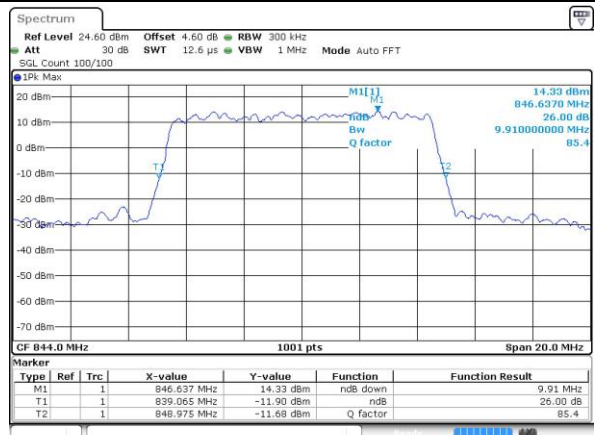
Date: 18 MAR 2017 03:33:55

Highest Channel / 10MHz / QPSK



Date: 18 MAR 2017 03:36:17

Highest Channel / 10MHz / 16QAM

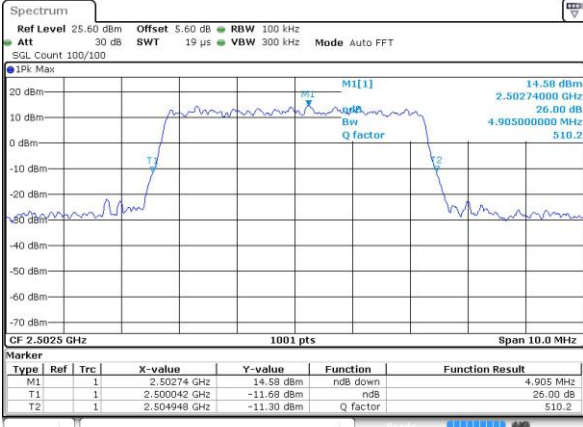


Date: 18 MAR 2017 06:38:34



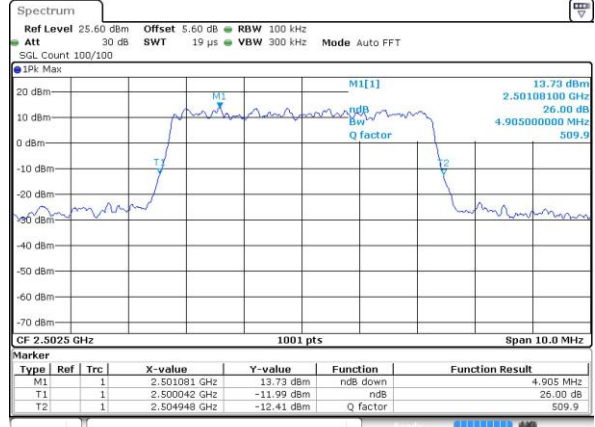
LTE Band 7

Lowest Channel / 5MHz / QPSK



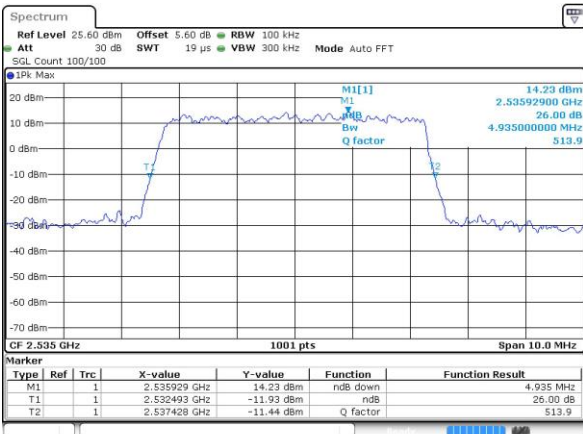
Date: 20 MAR 2017 12:09:33

Lowest Channel / 5MHz / 16QAM



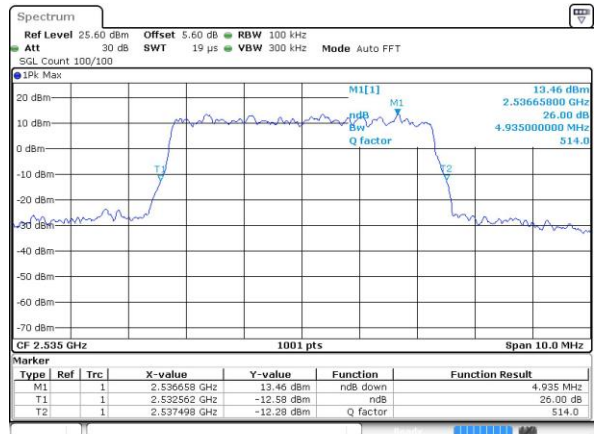
Date: 20 MAR 2017 12:09:54

Middle Channel / 5MHz / QPSK



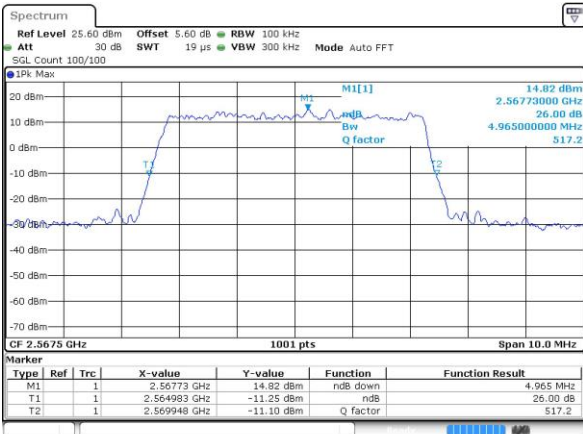
Date: 20 MAR 2017 12:10:35

Middle Channel / 5MHz / 16QAM



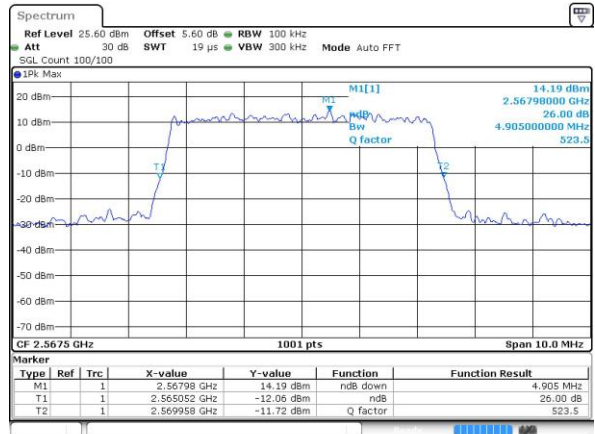
Date: 20 MAR 2017 12:10:14

Highest Channel / 5MHz / QPSK



Date: 20 MAR 2017 12:10:56

Highest Channel / 5MHz / 16QAM

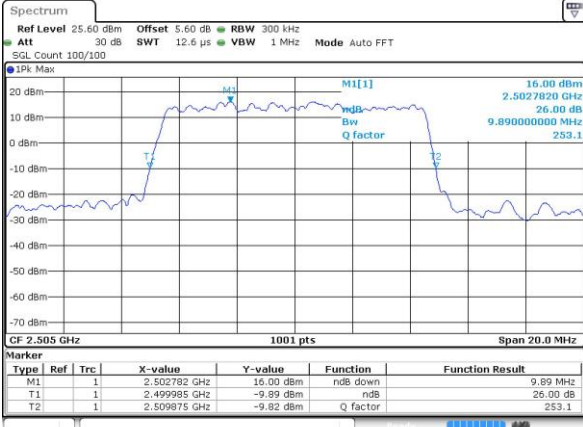


Date: 20 MAR 2017 12:11:17



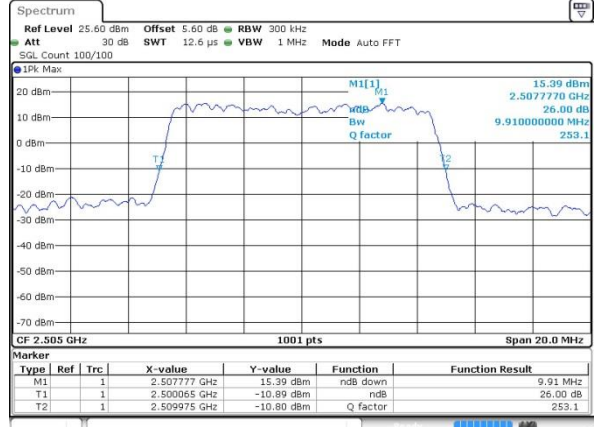
LTE Band 7

Lowest Channel / 10MHz / QPSK



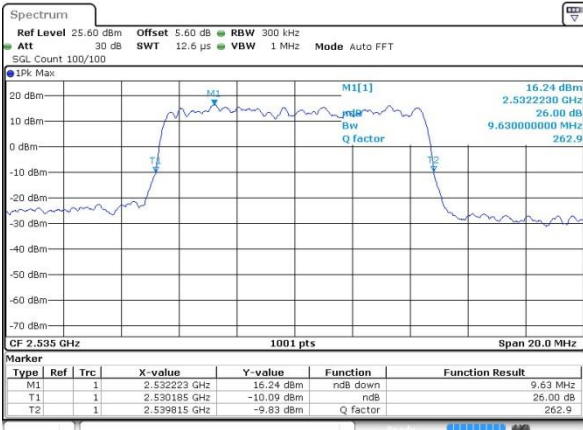
Date: 20 MAR 2017 12:26:11

Lowest Channel / 10MHz / 16QAM



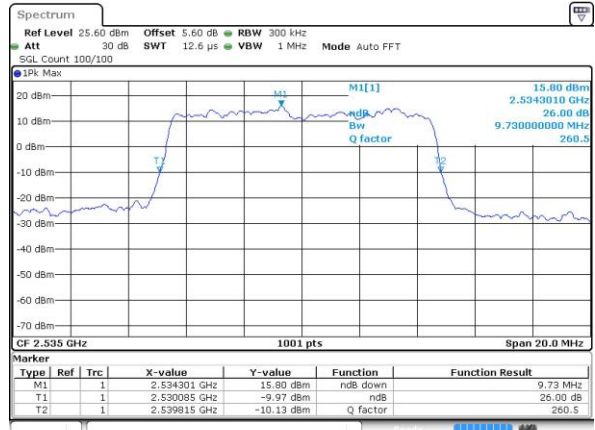
Date: 20 MAR 2017 12:26:32

Middle Channel / 10MHz / QPSK



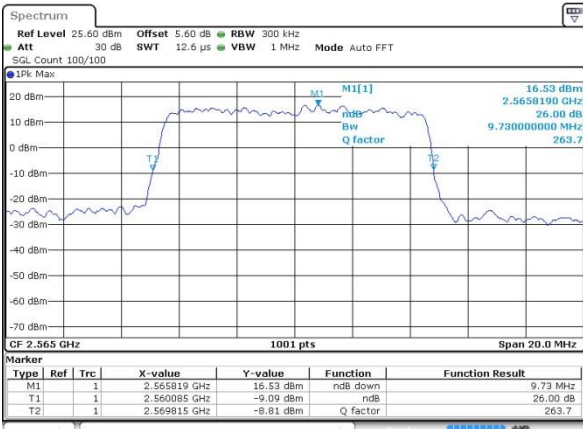
Date: 20 MAR 2017 12:27:18

Middle Channel / 10MHz / 16QAM



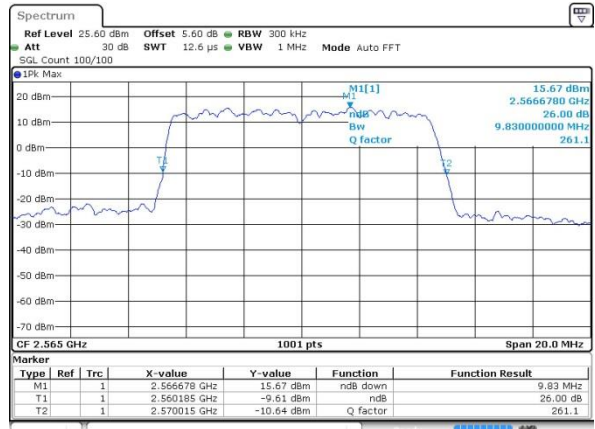
Date: 20 MAR 2017 12:26:56

Highest Channel / 10MHz / QPSK



Date: 20 MAR 2017 12:27:41

Highest Channel / 10MHz / 16QAM

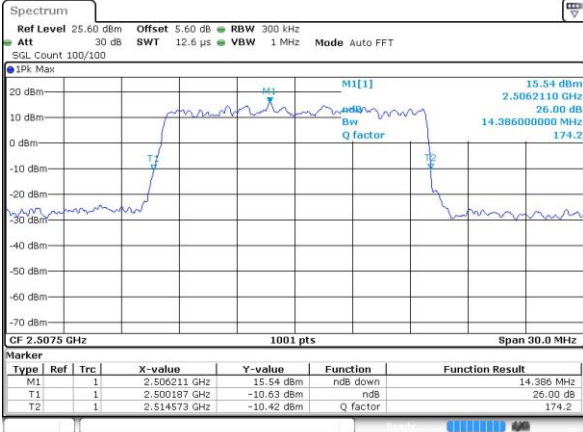


Date: 20 MAR 2017 12:28:05



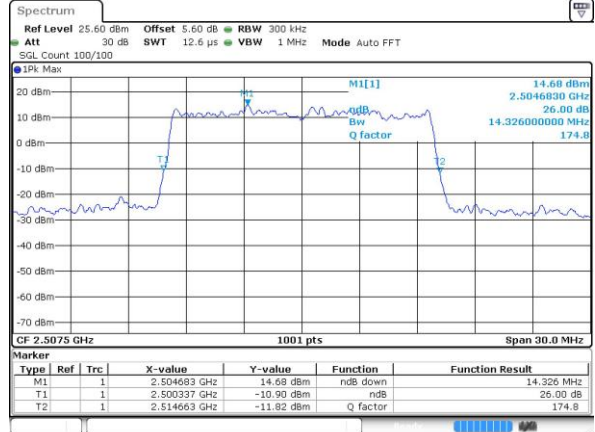
LTE Band 7

Lowest Channel / 15MHz / QPSK



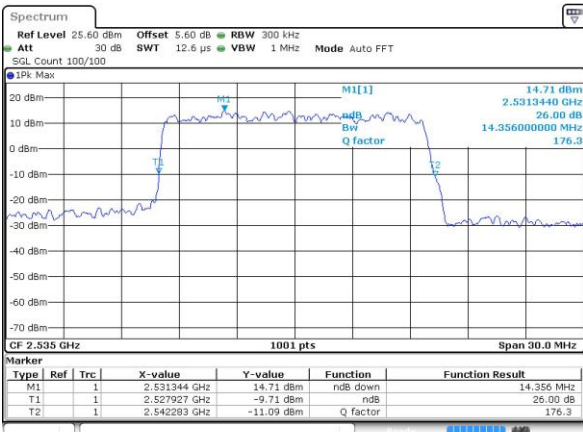
Date: 20 MAR 2017 12:43:20

Lowest Channel / 15MHz / 16QAM



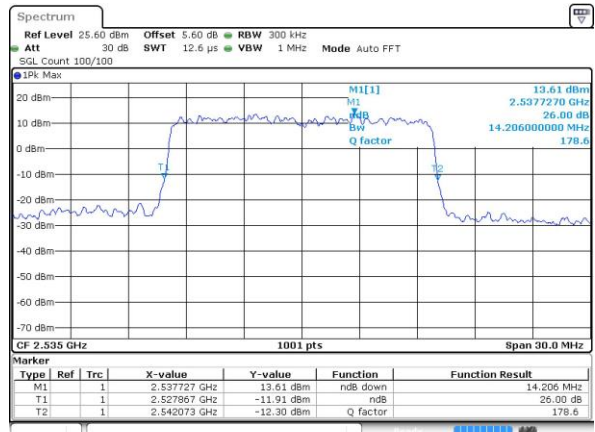
Date: 20 MAR 2017 12:43:00

Middle Channel / 15MHz / QPSK



Date: 20 MAR 2017 12:43:41

Middle Channel / 15MHz / 16QAM



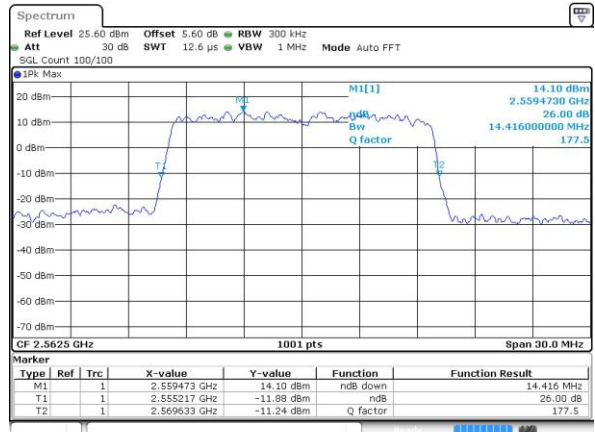
Date: 20 MAR 2017 12:44:02

Highest Channel / 15MHz / QPSK



Date: 20 MAR 2017 12:44:43

Highest Channel / 15MHz / 16QAM

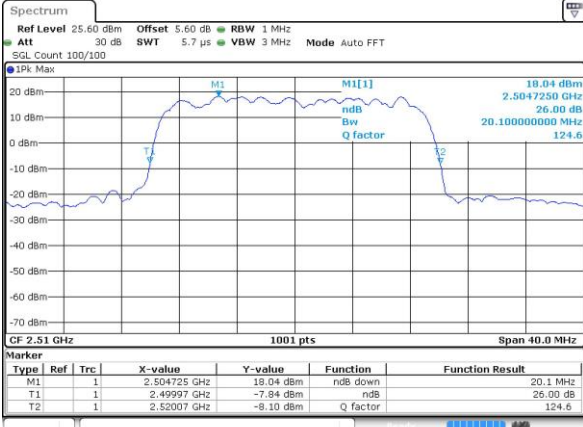


Date: 20 MAR 2017 12:44:23



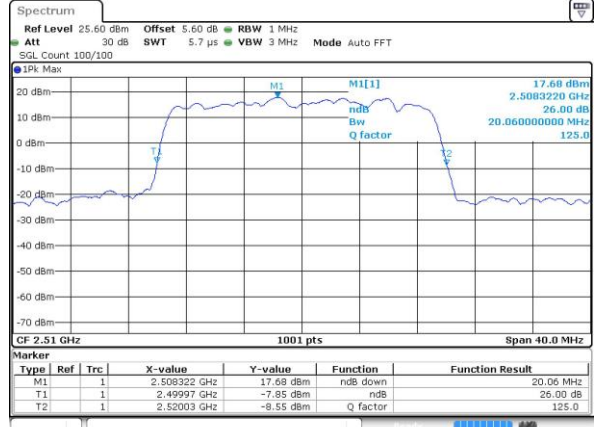
LTE Band 7

Lowest Channel / 20MHz / QPSK



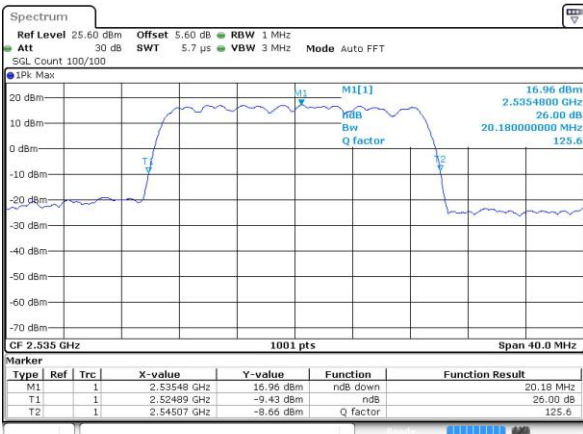
Date: 20 MAR 2017 12:59:58

Lowest Channel / 20MHz / 16QAM



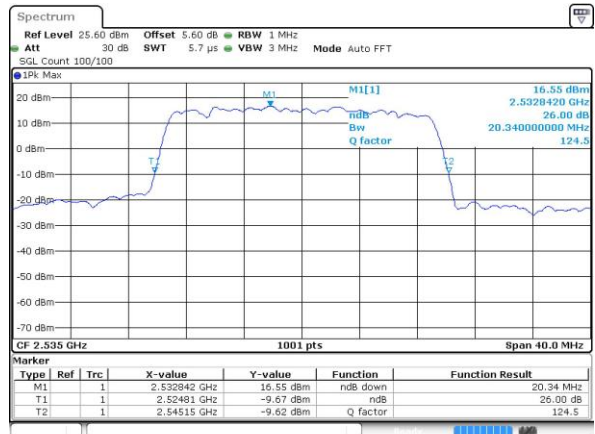
Date: 20 MAR 2017 12:59:38

Middle Channel / 20MHz / QPSK



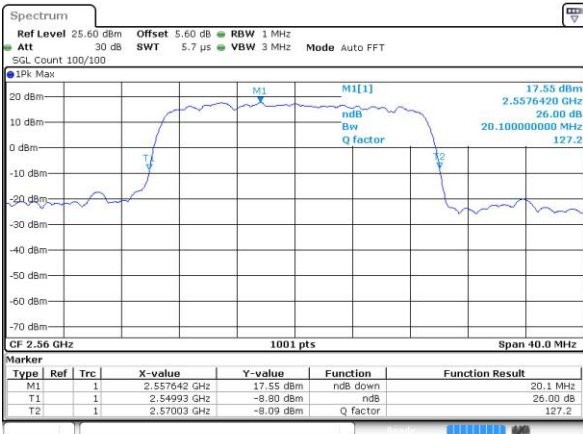
Date: 20 MAR 2017 13:00:19

Middle Channel / 20MHz / 16QAM



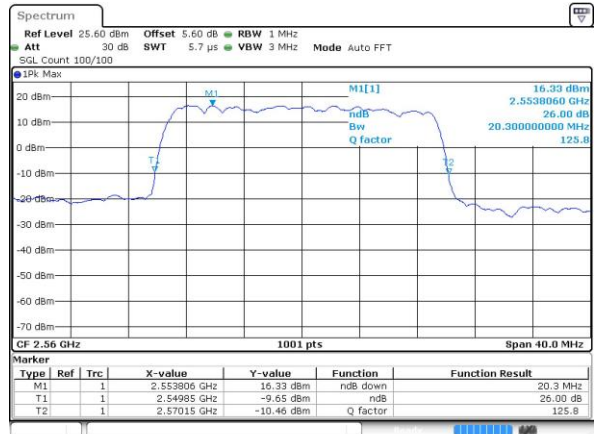
Date: 20 MAR 2017 13:00:40

Highest Channel / 20MHz / QPSK



Date: 20 MAR 2017 13:01:21

Highest Channel / 20MHz / 16QAM

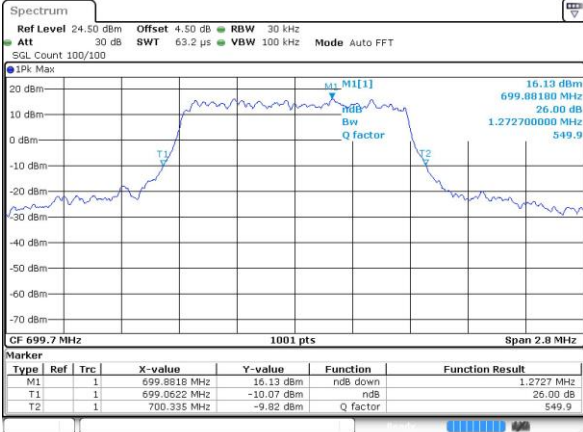


Date: 20 MAR 2017 13:01:00



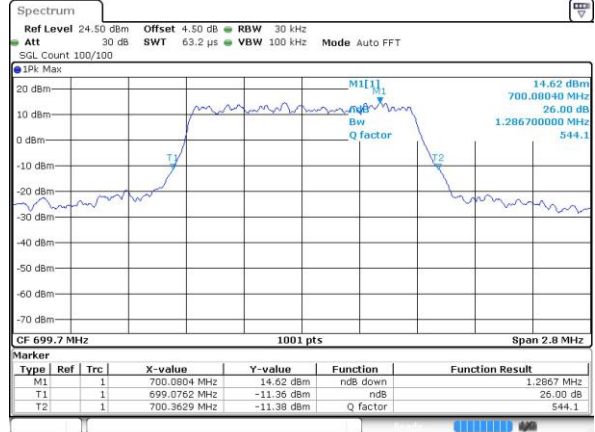
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



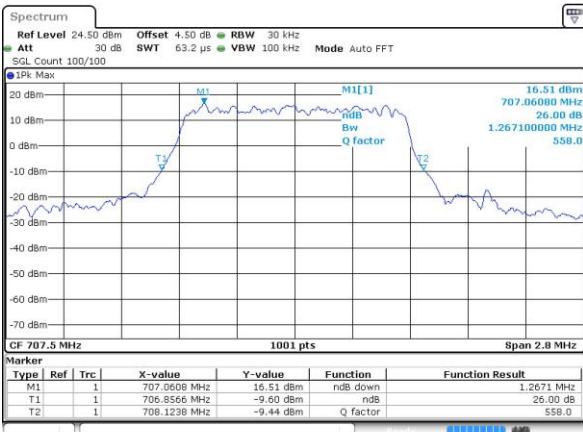
Date: 12 APR 2017 15:52:43

Lowest Channel / 1.4MHz / 16QAM



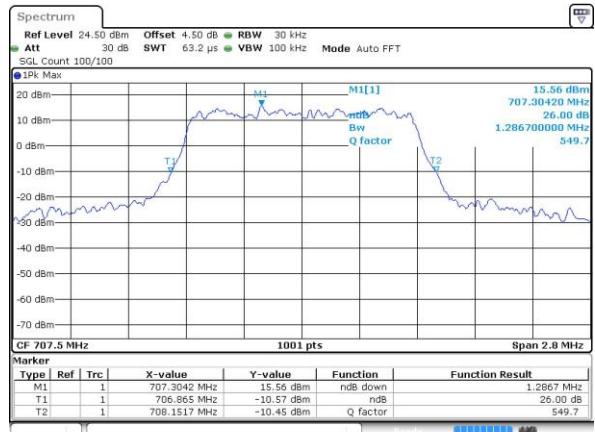
Date: 12 APR 2017 15:52:33

Middle Channel / 1.4MHz / QPSK



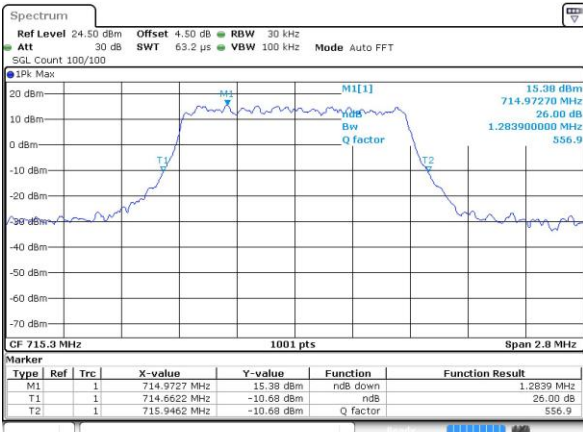
Date: 12 APR 2017 15:52:12

Middle Channel / 1.4MHz / 16QAM



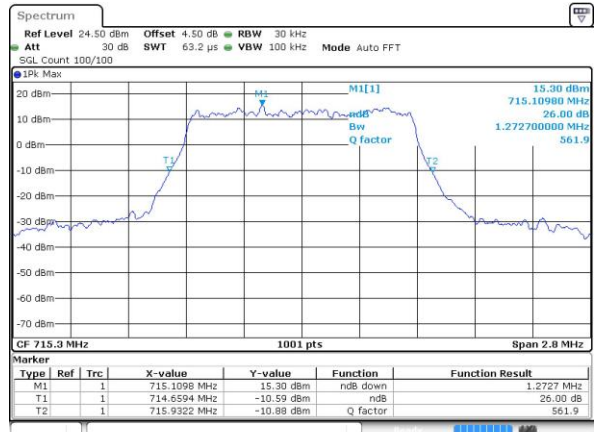
Date: 12 APR 2017 15:52:22

Highest Channel / 1.4MHz / QPSK



Date: 12 APR 2017 15:52:01

Highest Channel / 1.4MHz / 16QAM

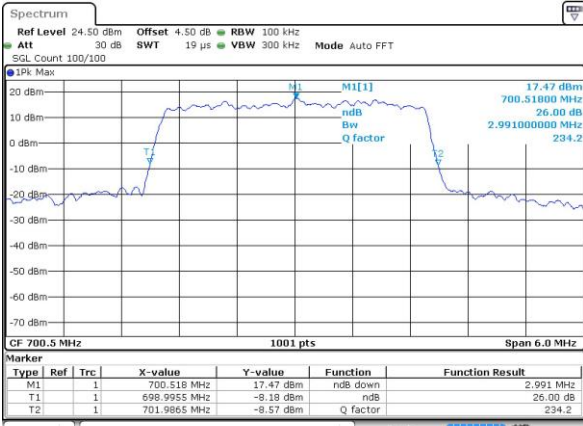


Date: 12 APR 2017 15:51:51



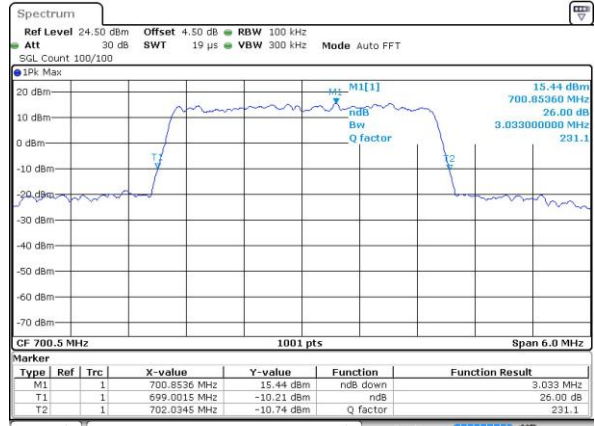
LTE Band 12

Lowest Channel / 3MHz / QPSK



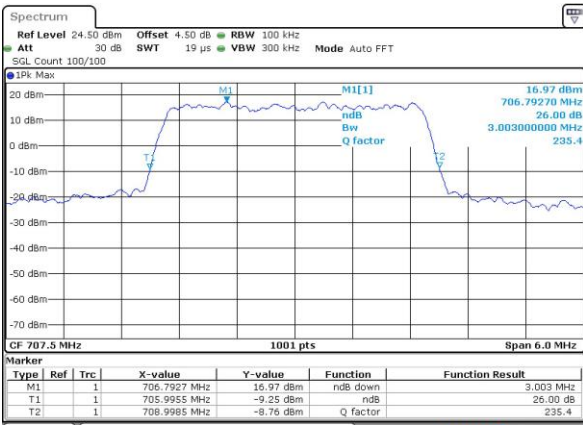
Date: 12 APR 2017 16:09:30

Lowest Channel / 3MHz / 16QAM



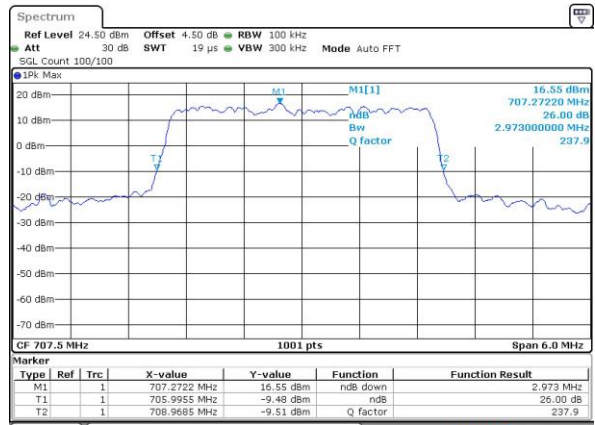
Date: 12 APR 2017 16:09:19

Middle Channel / 3MHz / QPSK



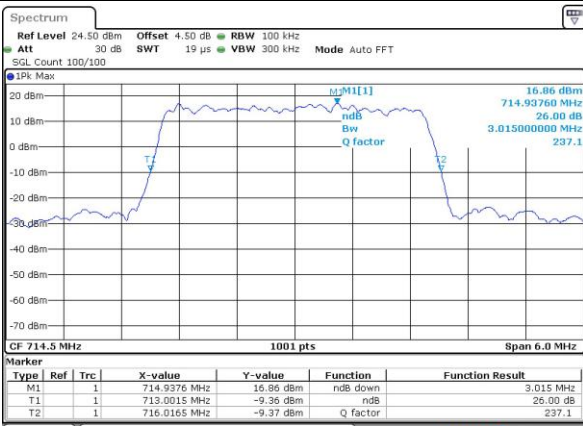
Date: 12 APR 2017 16:08:58

Middle Channel / 3MHz / 16QAM



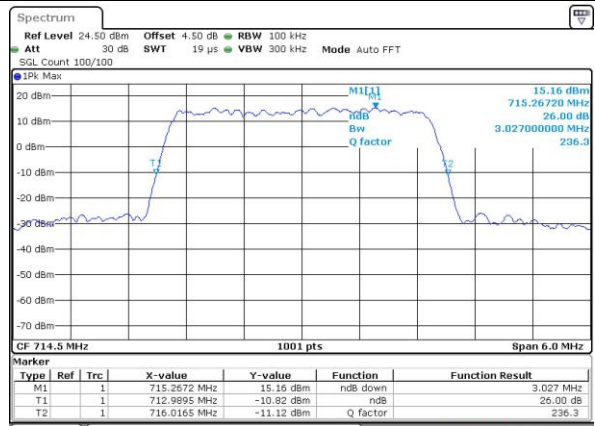
Date: 12 APR 2017 16:09:09

Highest Channel / 3MHz / QPSK



Date: 12 APR 2017 16:08:48

Highest Channel / 3MHz / 16QAM

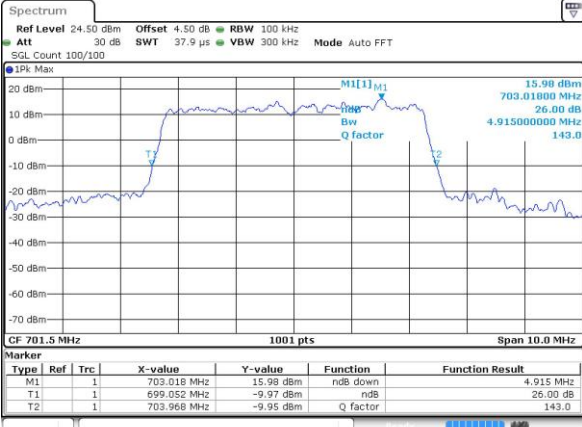


Date: 12 APR 2017 16:08:37



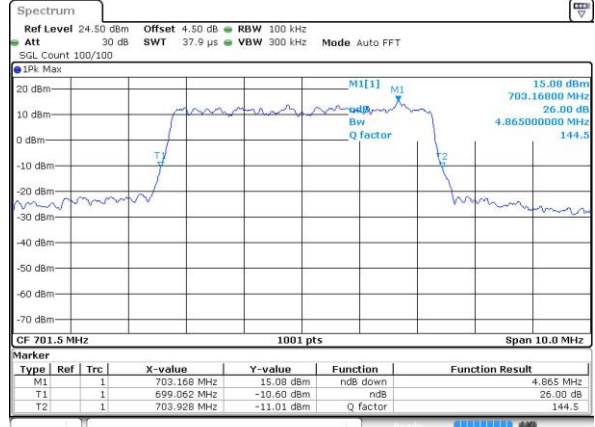
LTE Band 12

Lowest Channel / 5MHz / QPSK



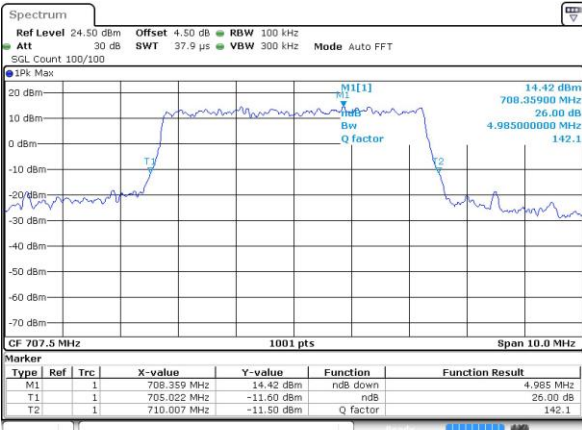
Date: 12 APR 2017 16:26:15

Lowest Channel / 5MHz / 16QAM



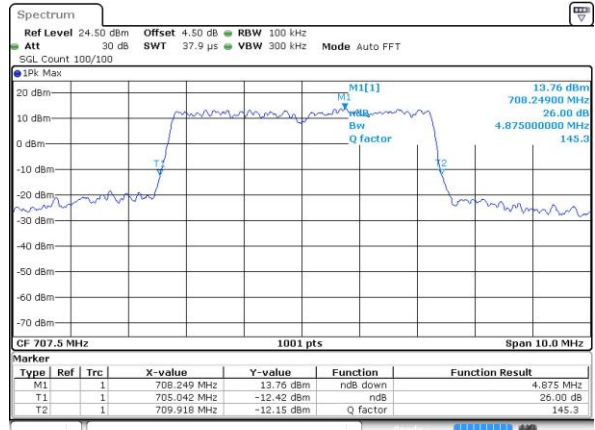
Date: 12 APR 2017 16:26:04

Middle Channel / 5MHz / QPSK



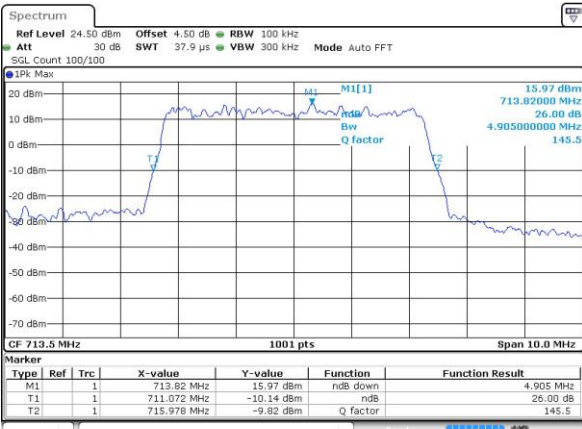
Date: 12 APR 2017 16:25:43

Middle Channel / 5MHz / 16QAM



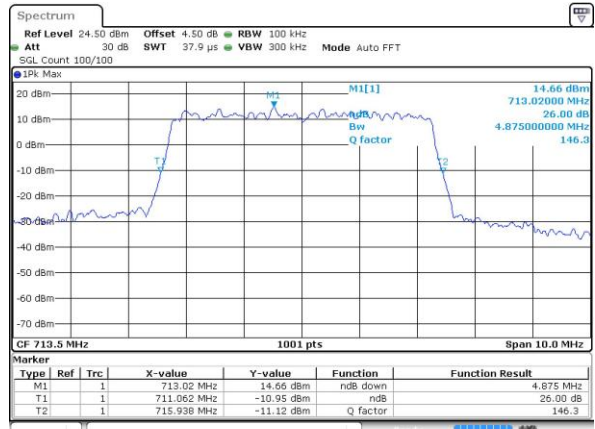
Date: 12 APR 2017 16:25:54

Highest Channel / 5MHz / QPSK



Date: 12 APR 2017 16:25:33

Highest Channel / 5MHz / 16QAM

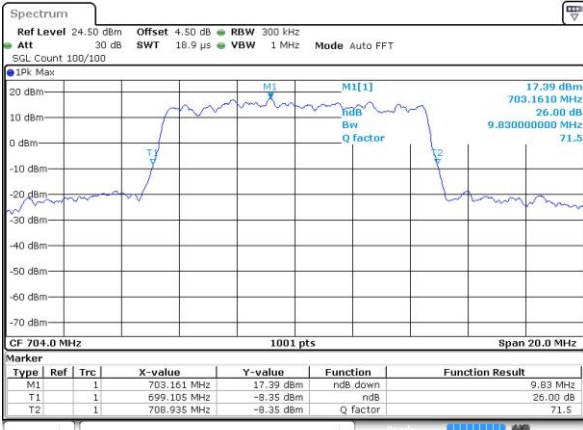


Date: 12 APR 2017 16:25:22



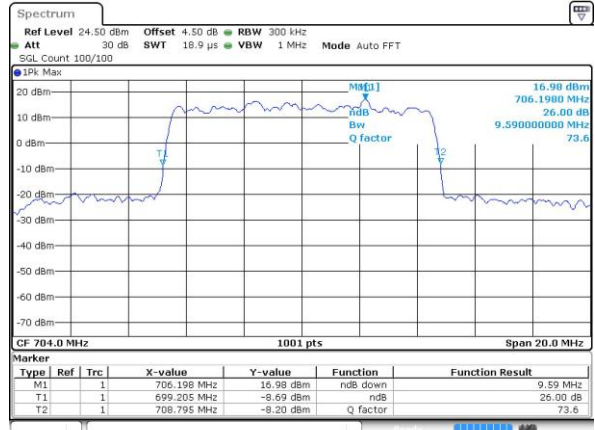
LTE Band 12

Lowest Channel / 10MHz / QPSK



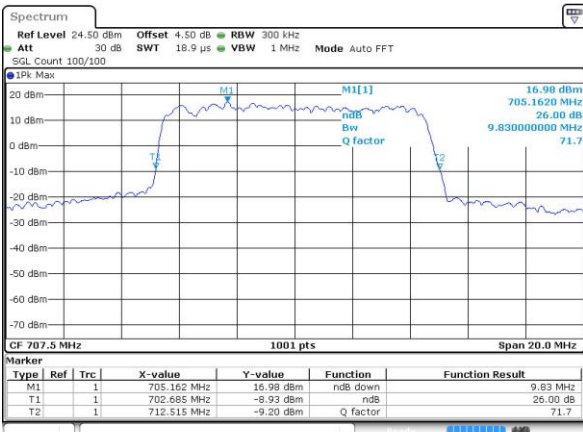
Date: 12 APR 2017 16:43:00

Lowest Channel / 10MHz / 16QAM



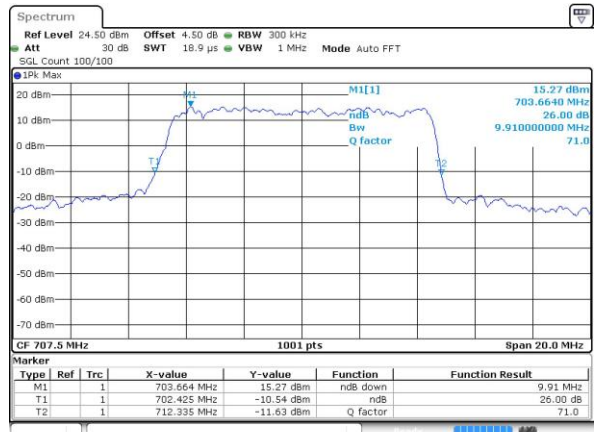
Date: 12 APR 2017 16:42:50

Middle Channel / 10MHz / QPSK



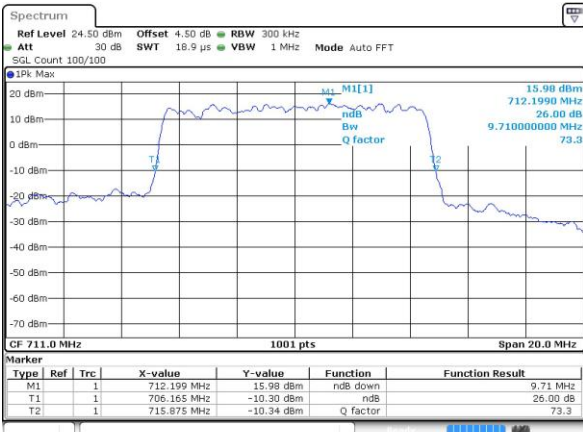
Date: 12 APR 2017 16:42:29

Middle Channel / 10MHz / 16QAM



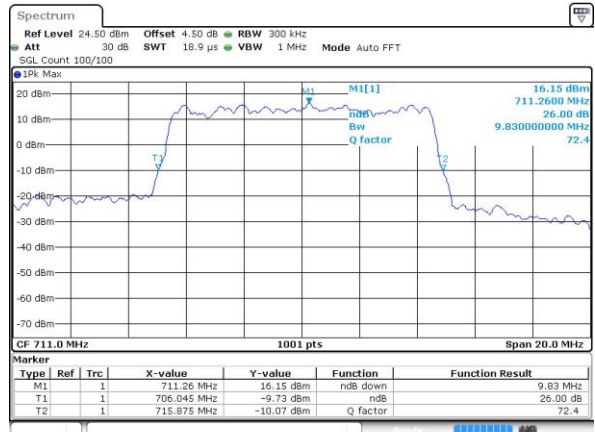
Date: 12 APR 2017 16:42:39

Highest Channel / 10MHz / QPSK



Date: 12 APR 2017 16:42:18

Highest Channel / 10MHz / 16QAM

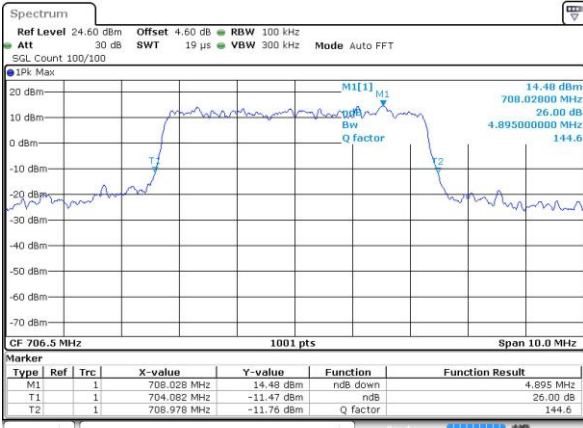


Date: 12 APR 2017 16:42:08



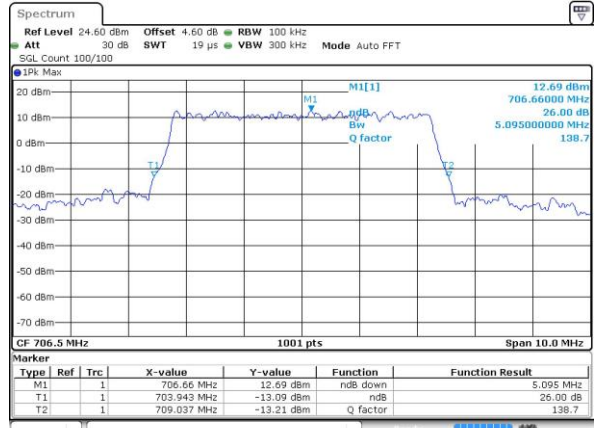
LTE Band 17

Lowest Channel / 5MHz / QPSK



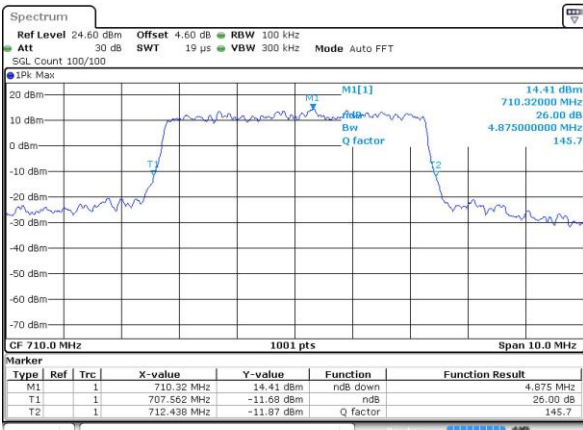
Date: 18 MAR 2017 01:17:57

Lowest Channel / 5MHz / 16QAM



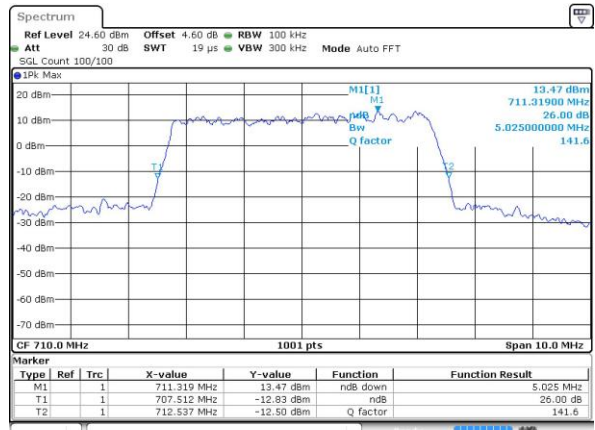
Date: 18 MAR 2017 01:18:07

Middle Channel / 5MHz / QPSK



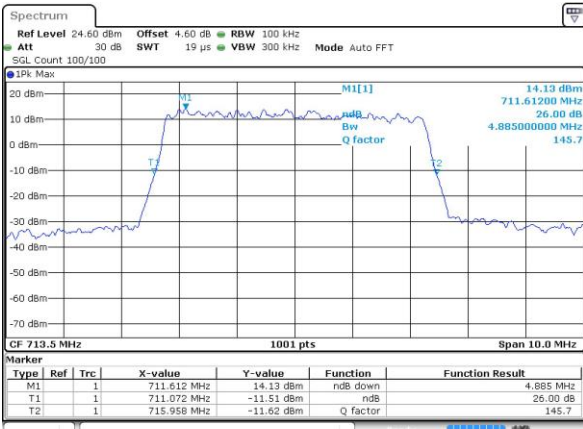
Date: 18 MAR 2017 01:25:01

Middle Channel / 5MHz / 16QAM



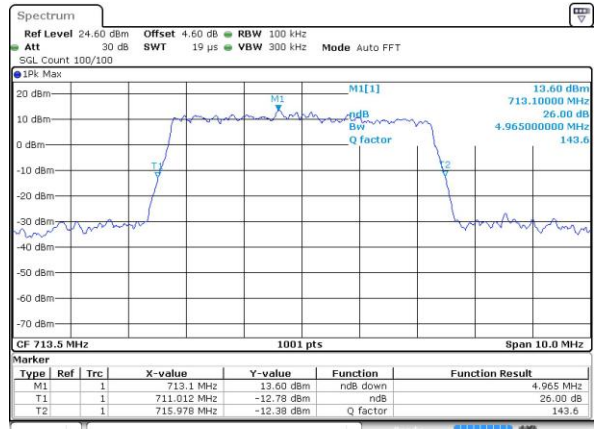
Date: 18 MAR 2017 01:25:12

Highest Channel / 5MHz / QPSK



Date: 18 MAR 2017 01:27:34

Highest Channel / 5MHz / 16QAM

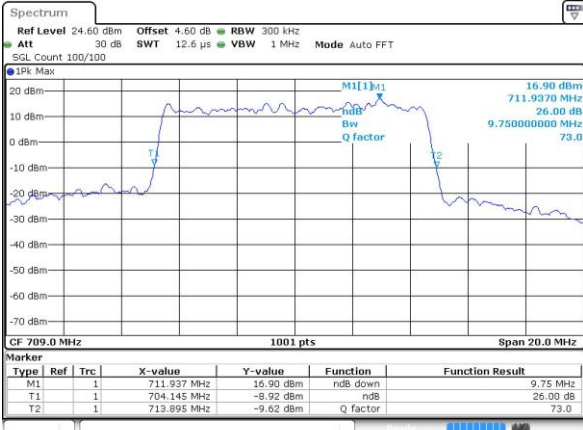


Date: 18 MAR 2017 01:27:44



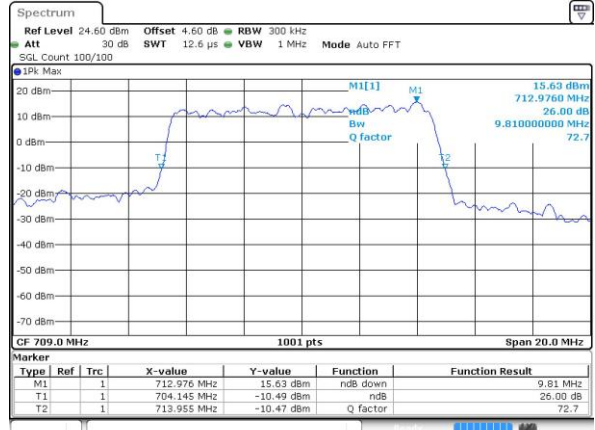
LTE Band 17

Lowest Channel / 10MHz / QPSK



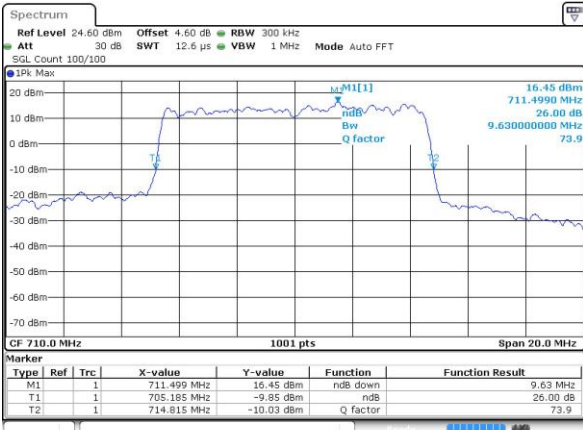
Date: 18 MAR 2017 01:34:38

Lowest Channel / 10MHz / 16QAM



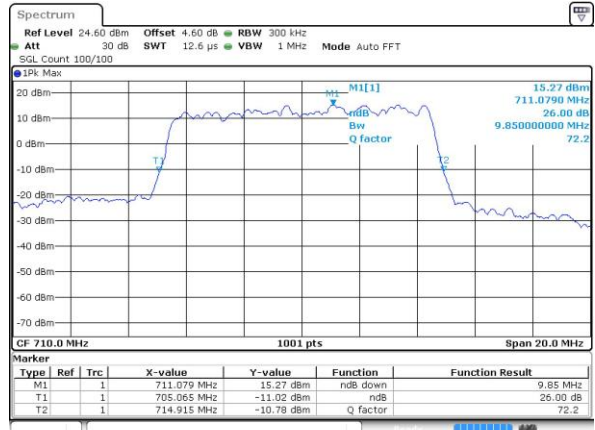
Date: 18 MAR 2017 01:34:48

Middle Channel / 10MHz / QPSK



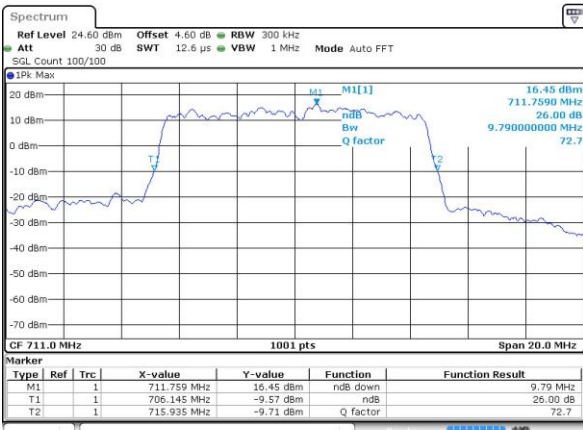
Date: 18 MAR 2017 01:41:42

Middle Channel / 10MHz / 16QAM



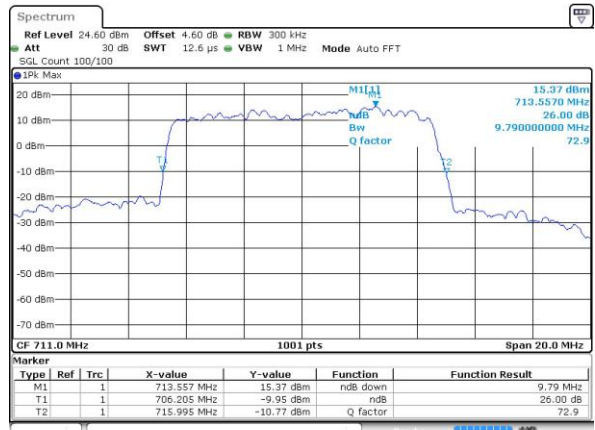
Date: 18 MAR 2017 01:41:52

Highest Channel / 10MHz / QPSK



Date: 18 MAR 2017 01:44:14

Highest Channel / 10MHz / 16QAM



Date: 18 MAR 2017 01:44:24



## 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  | 1.09                     | 1.09  | 2.70 | 2.72  | 4.49 | 4.48  | 8.99  | 9.05  | 13.43 | 13.52 | 18.22 | 18.38 |
| Middle CH  | 1.09                     | 1.09  | 2.71 | 2.73  | 4.51 | 4.47  | 9.03  | 9.03  | 13.43 | 13.49 | 18.38 | 18.26 |
| Highest CH | 1.09                     | 1.10  | 2.72 | 2.72  | 4.50 | 4.50  | 9.05  | 9.01  | 13.40 | 13.40 | 18.38 | 18.34 |

| 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  | 1.09                     | 1.10  | 2.71 | 2.72  | 4.49 | 4.49  | 9.01  | 9.01  | 13.43 | 13.43 | 18.34 | 18.34 |
| Middle CH  | 1.10                     | 1.09  | 2.71 | 2.73  | 4.50 | 4.48  | 8.99  | 8.95  | 13.37 | 13.37 | 18.26 | 18.22 |
| Highest CH | 1.09                     | 1.09  | 2.71 | 2.72  | 4.49 | 4.49  | 9.05  | 8.99  | 13.43 | 13.43 | 18.46 | 18.34 |

| 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                     | 1.09  | 2.72 | 2.72  | 4.48 | 4.49  | 8.95  | 8.95  | -     | -     | -     | -     |
| Middle CH  | 1.09                     | 1.09  | 2.72 | 2.71  | 4.49 | 4.50  | 9.05  | 9.03  | -     | -     | -     | -     |
| Highest CH | 1.09                     | 1.09  | 2.72 | 2.72  | 4.49 | 4.49  | 8.99  | 8.97  | -     | -     | -     | -     |

| 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  | -                        | -     | -    | -     | 4.49 | 4.49  | 9.11  | 8.99  | 13.40 | 13.43 | 18.34 | 18.26 |
| Middle CH  | -                        | -     | -    | -     | 4.48 | 4.49  | 9.03  | 9.03  | 13.34 | 13.46 | 18.30 | 18.18 |
| Highest CH | -                        | -     | -    | -     | 4.50 | 4.49  | 8.99  | 9.07  | 13.46 | 13.43 | 18.38 | 18.26 |



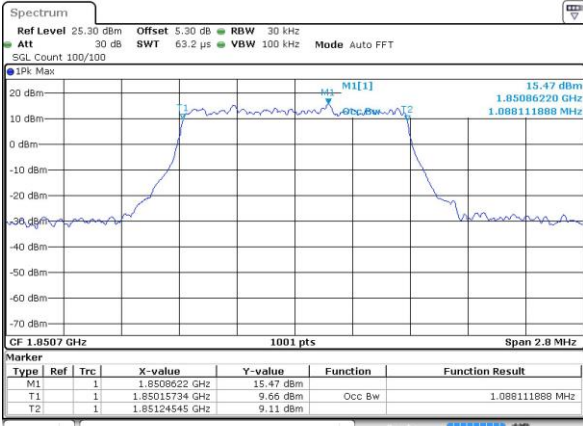
| Mode       | LTE Band 12 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.09                      | 1.09  | 2.72 | 2.73  | 4.50 | 4.52  | 8.97  | 8.99  | -     | -     | -     | -     |
| Middle CH  | 1.09                      | 1.09  | 2.71 | 2.73  | 4.49 | 4.50  | 8.99  | 9.03  | -     | -     | -     | -     |
| Highest CH | 1.09                      | 1.09  | 2.74 | 2.71  | 4.49 | 4.48  | 9.01  | 8.95  | -     | -     | -     | -     |

| Mode       | LTE Band 17 : 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  | -                         | -     | -    | -     | 4.49 | 4.51  | 9.05  | 9.05  | -     | -     | -     | -     |
| Middle CH  | -                         | -     | -    | -     | 4.48 | 4.49  | 8.99  | 9.05  | -     | -     | -     | -     |
| Highest CH | -                         | -     | -    | -     | 4.48 | 4.50  | 9.03  | 8.97  | -     | -     | -     | -     |



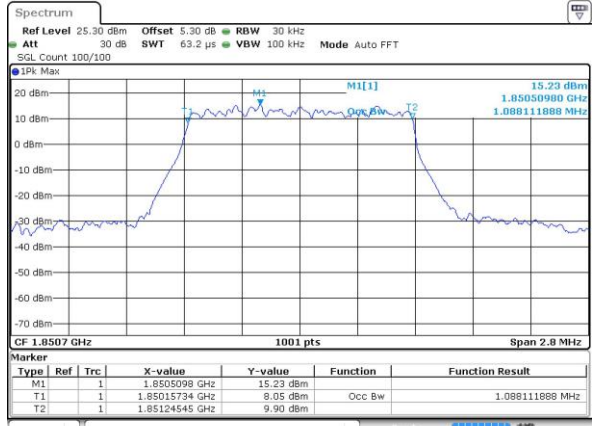
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



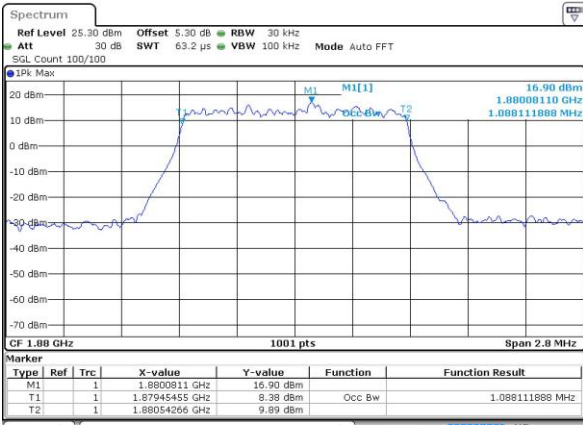
Date: 16 MAR 2017 01:41:49

Lowest Channel / 1.4MHz / 16QAM



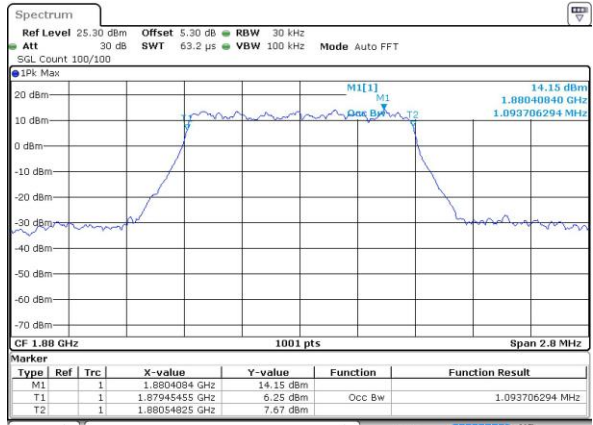
Date: 16 MAR 2017 03:49:49

Middle Channel / 1.4MHz / QPSK



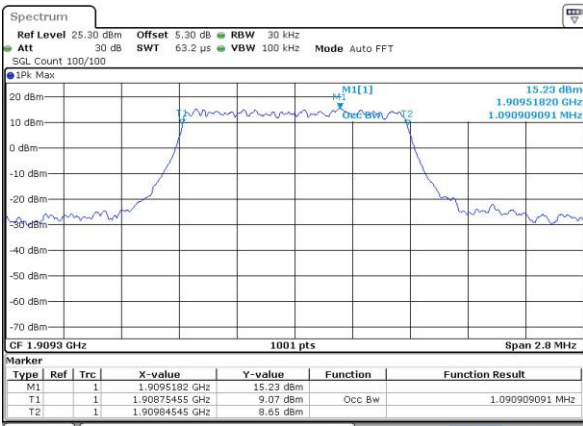
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Middle Channel / 1.4MHz / 16QAM



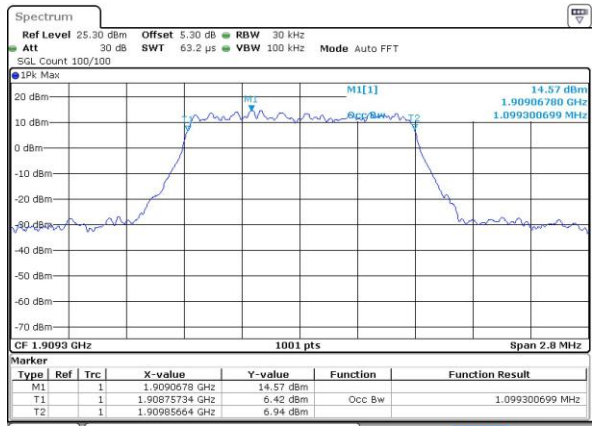
Date: 16 MAR 2017 01:49:03

Highest Channel / 1.4MHz / QPSK



Date: 16 MAR 2017 01:51:24

Highest Channel / 1.4MHz / 16QAM

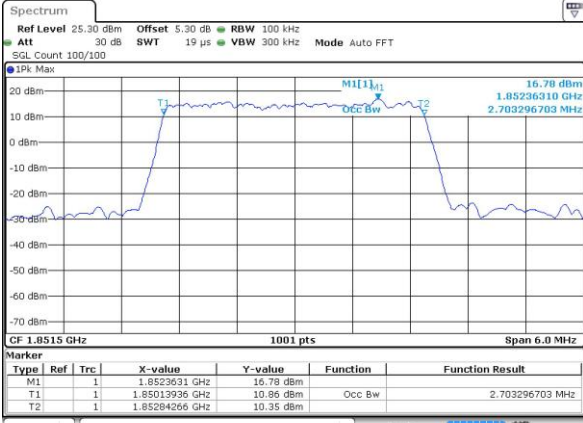


Date: 16 MAR 2017 01:51:35



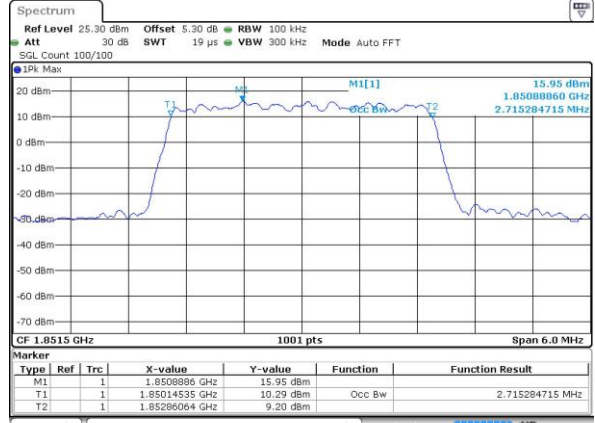
LTE Band 2

Lowest Channel / 3MHz / QPSK



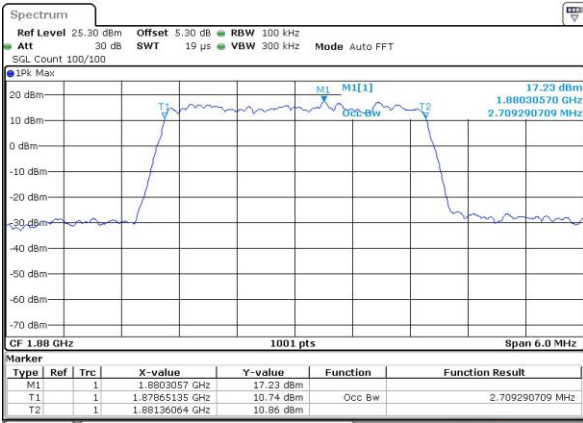
Date: 16 MAR 2017 01:58:28

Lowest Channel / 3MHz / 16QAM



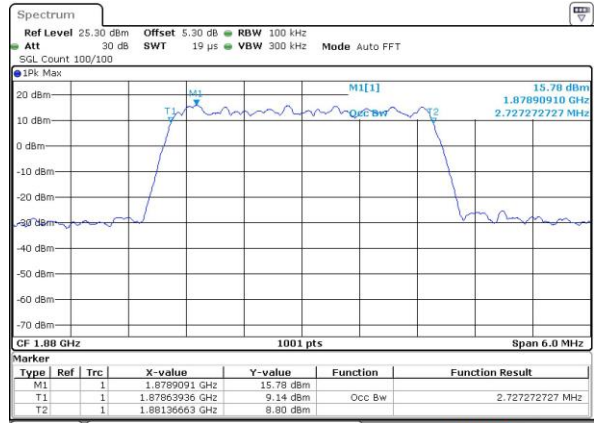
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Middle Channel / 3MHz / QPSK



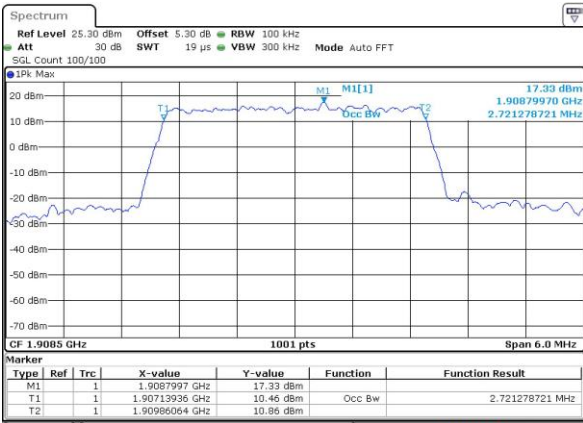
Date: 16 MAR 2017 02:05:31

Middle Channel / 3MHz / 16QAM



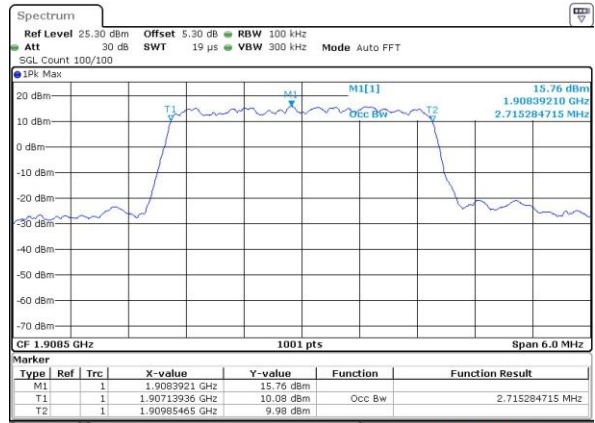
Date: 16 MAR 2017 02:05:41

Highest Channel / 3MHz / QPSK



Date: 16 MAR 2017 02:08:02

Highest Channel / 3MHz / 16QAM

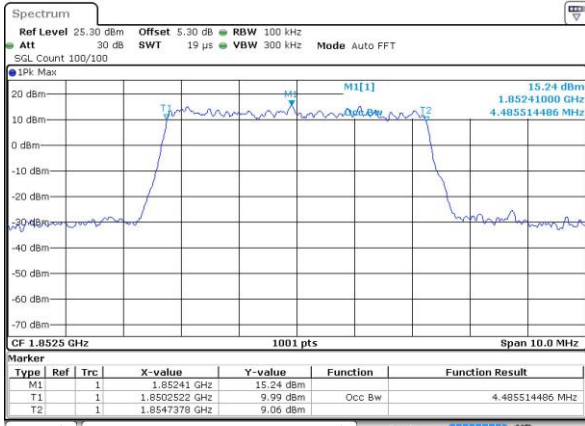


Date: 16 MAR 2017 02:08:13



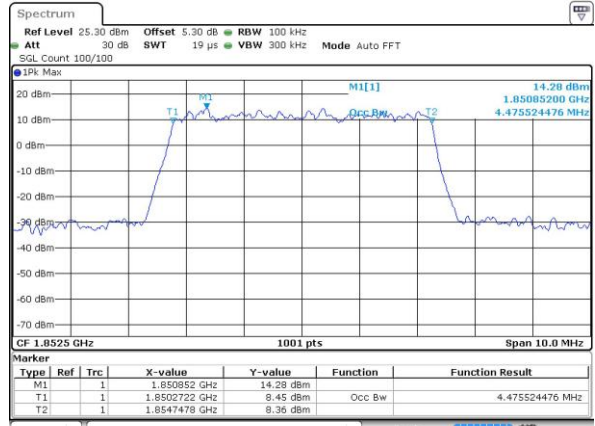
LTE Band 2

Lowest Channel / 5MHz / QPSK



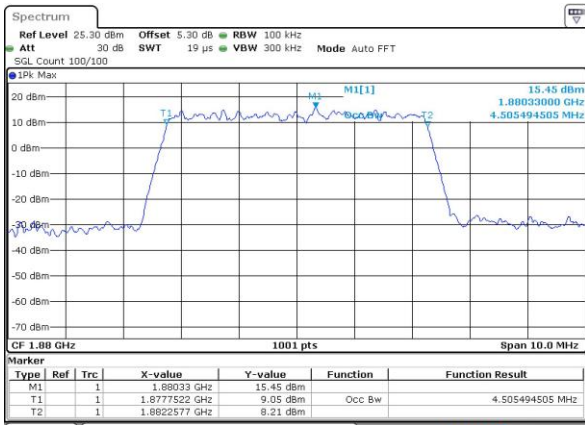
Date: 16 MAR 2017 02:15:06

Lowest Channel / 5MHz / 16QAM



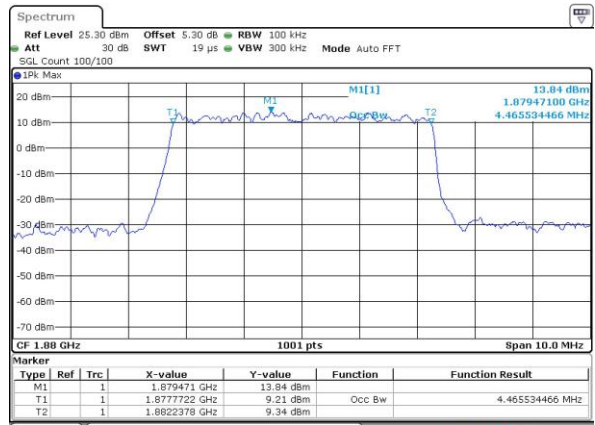
Date: 16 MAR 2017 02:15:16

Middle Channel / 5MHz / QPSK



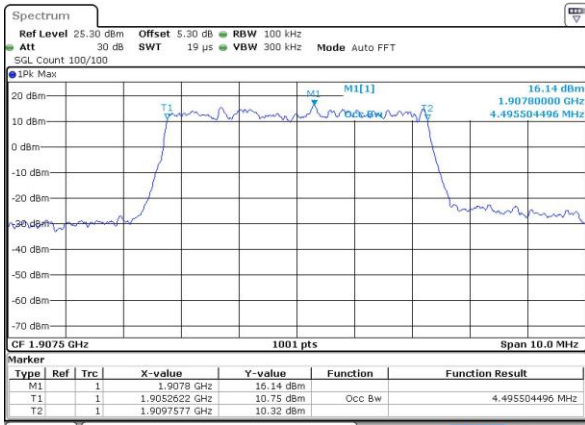
Date: 16 MAR 2017 02:22:09

Middle Channel / 5MHz / 16QAM



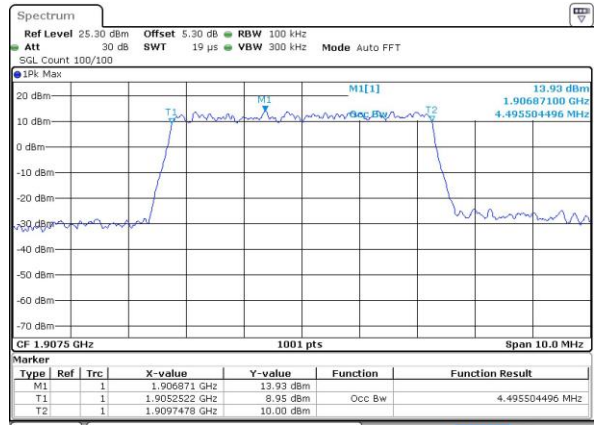
Date: 16 MAR 2017 02:22:19

Highest Channel / 5MHz / QPSK



Date: 16 MAR 2017 02:24:41

Highest Channel / 5MHz / 16QAM

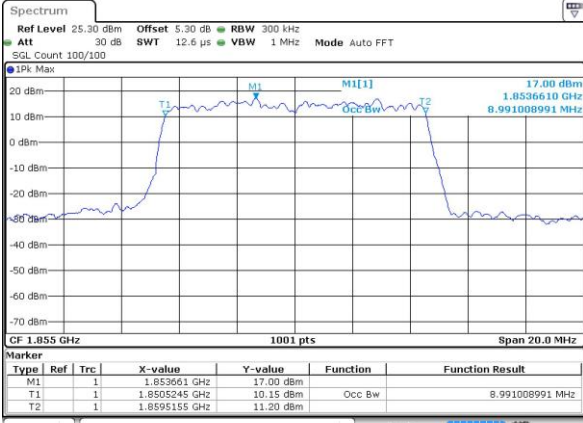


Date: 16 MAR 2017 02:24:51



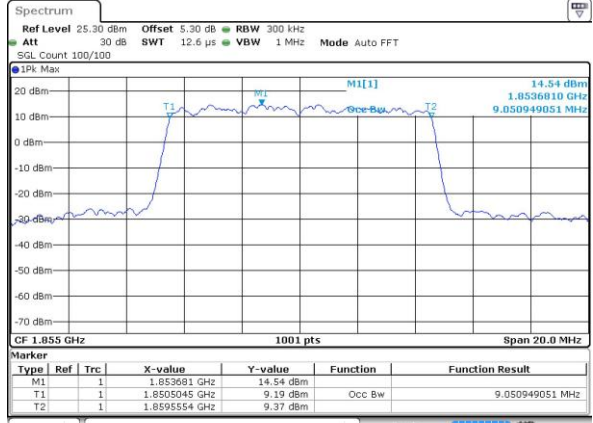
LTE Band 2

Lowest Channel / 10MHz / QPSK



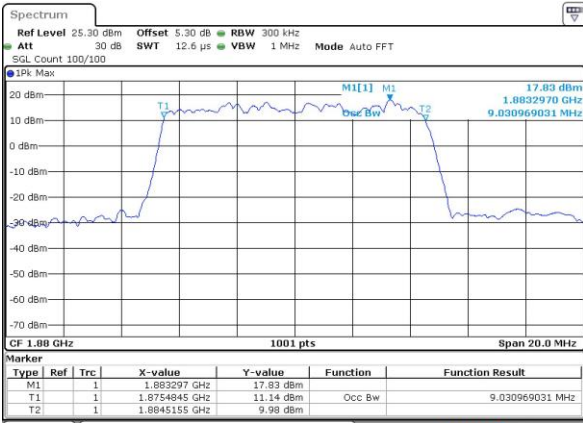
Date: 16 MAR 2017 02:31:44

Lowest Channel / 10MHz / 16QAM



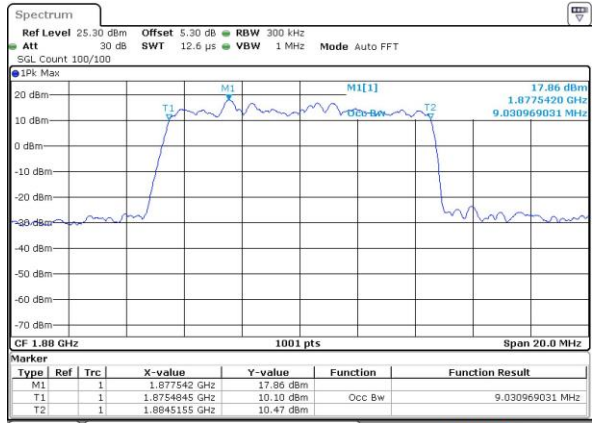
Date: 16 MAR 2017 02:31:55

Middle Channel / 10MHz / QPSK



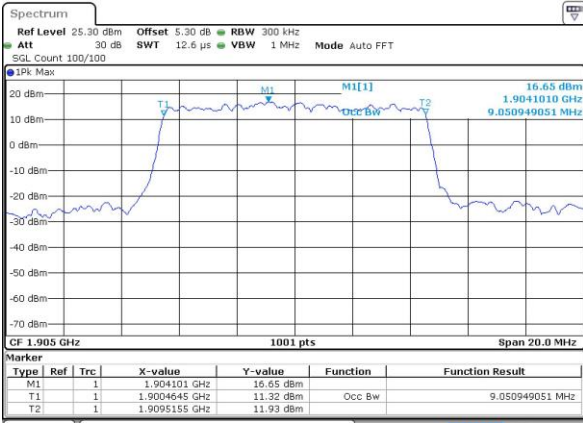
Date: 16 MAR 2017 02:38:47

Middle Channel / 10MHz / 16QAM



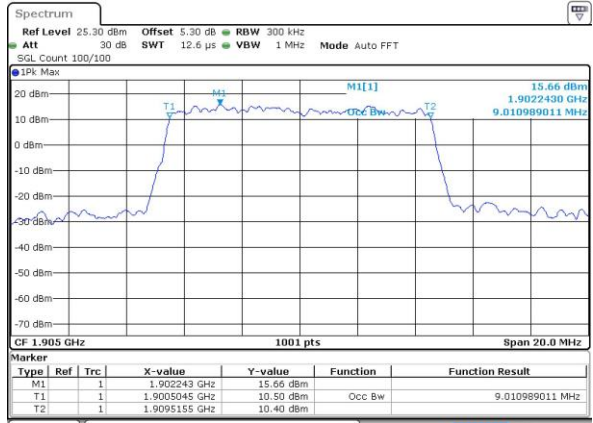
Date: 16 MAR 2017 02:38:58

Highest Channel / 10MHz / QPSK



Date: 16 MAR 2017 02:41:19

Highest Channel / 10MHz / 16QAM

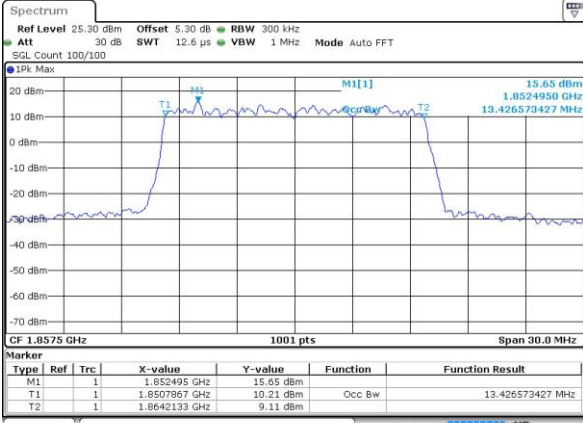


Date: 16 MAR 2017 02:41:29



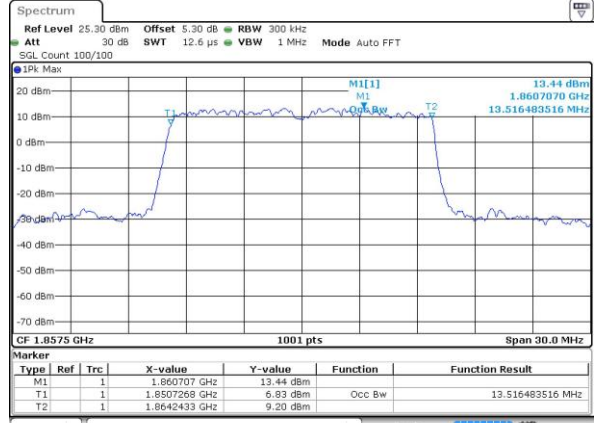
LTE Band 2

Lowest Channel / 15MHz / QPSK



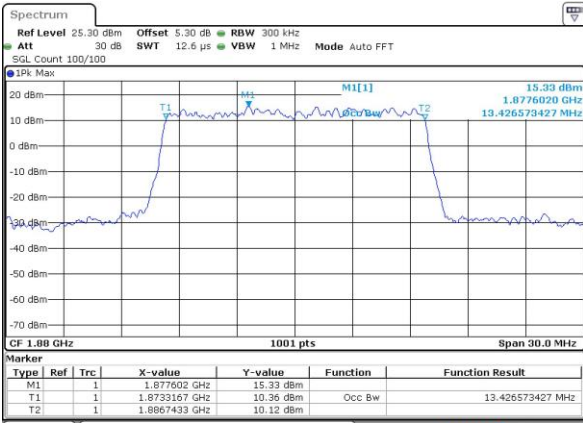
Date: 16 MAR 2017 02:48:22

Lowest Channel / 15MHz / 16QAM



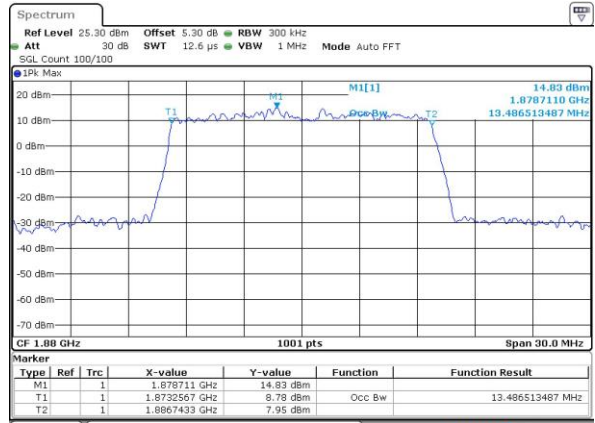
Date: 16 MAR 2017 02:48:33

Middle Channel / 15MHz / QPSK



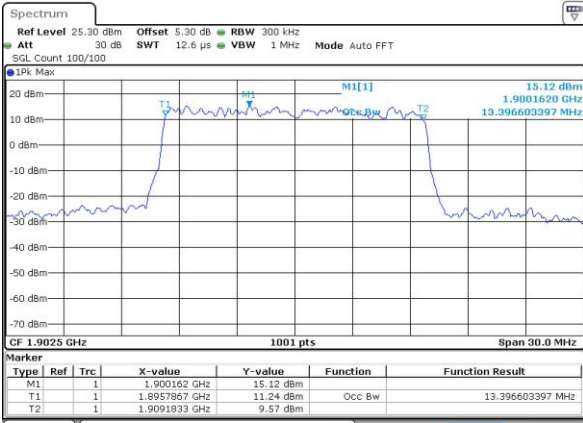
Date: 16 MAR 2017 02:55:26

Middle Channel / 15MHz / 16QAM



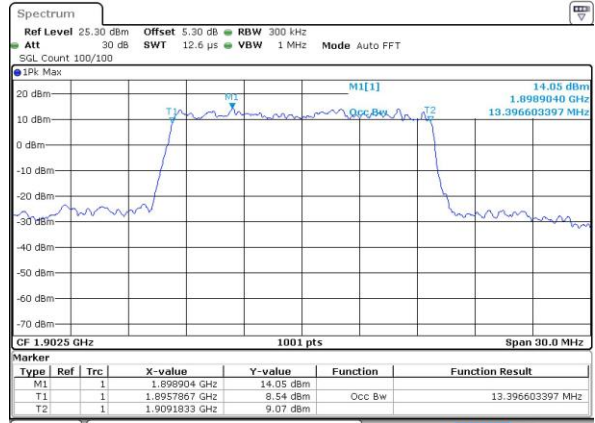
Date: 16 MAR 2017 02:55:36

Highest Channel / 15MHz / QPSK



Date: 16 MAR 2017 02:57:58

Highest Channel / 15MHz / 16QAM

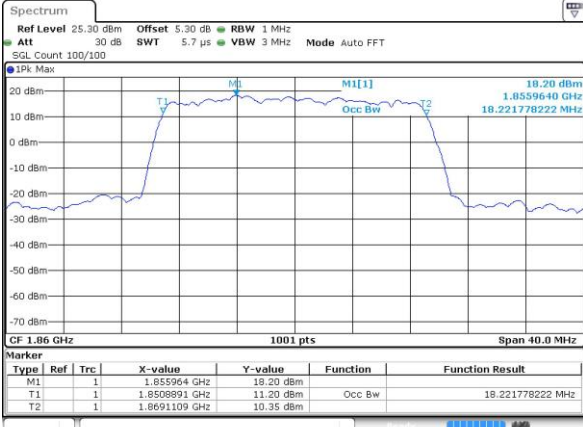


Date: 16 MAR 2017 02:58:08



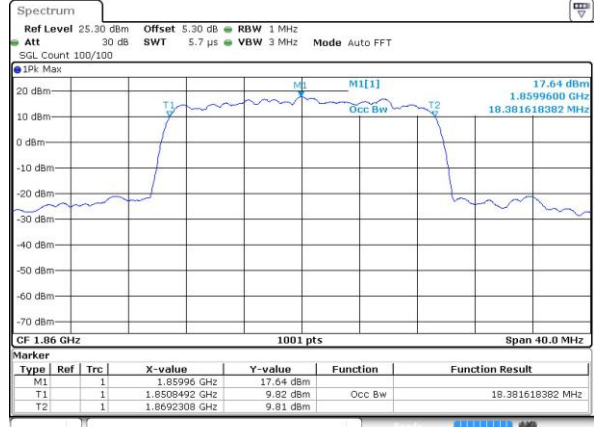
LTE Band 2

Lowest Channel / 20MHz / QPSK



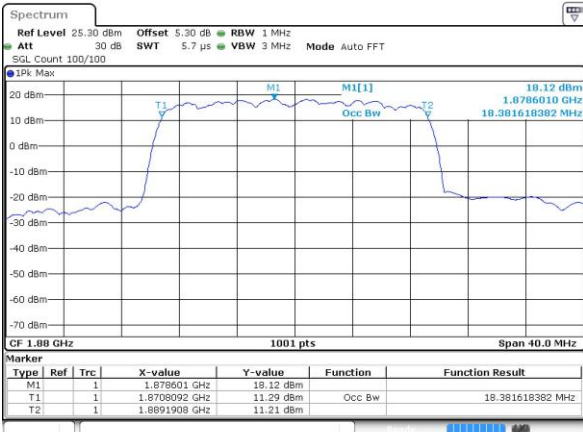
Date: 16 MAR 2017 03:05:00

Lowest Channel / 20MHz / 16QAM



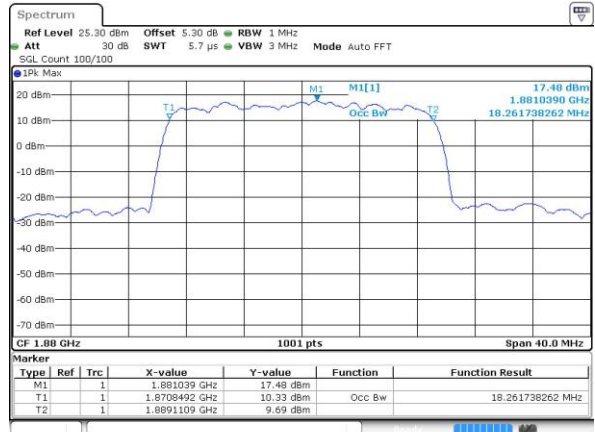
Date: 16 MAR 2017 03:05:11

Middle Channel / 20MHz / QPSK



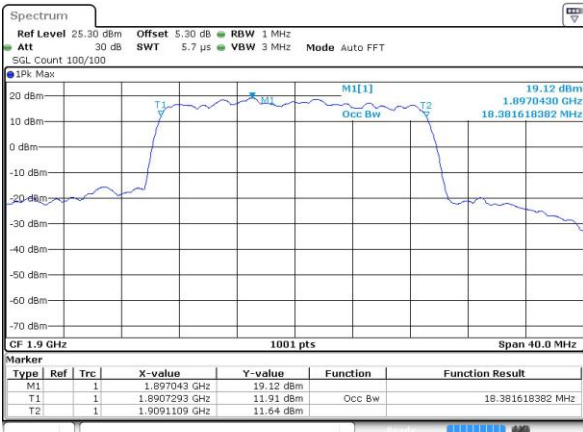
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Middle Channel / 20MHz / 16QAM



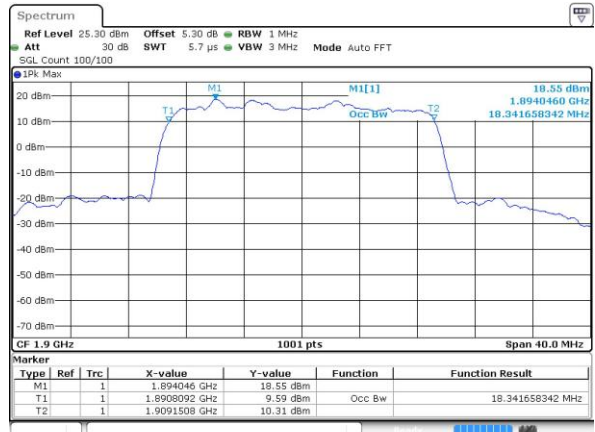
Date: 16 MAR 2017 03:12:14

Highest Channel / 20MHz / QPSK



Date: 16 MAR 2017 03:14:35

Highest Channel / 20MHz / 16QAM



Date: 16 MAR 2017 03:14:45