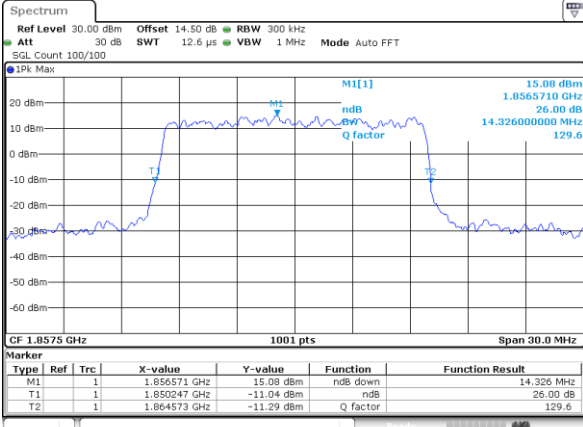




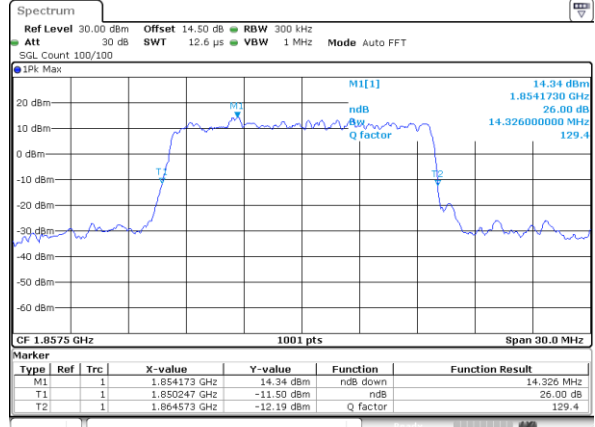
LTE Band 2

Lowest Channel / 15MHz / QPSK



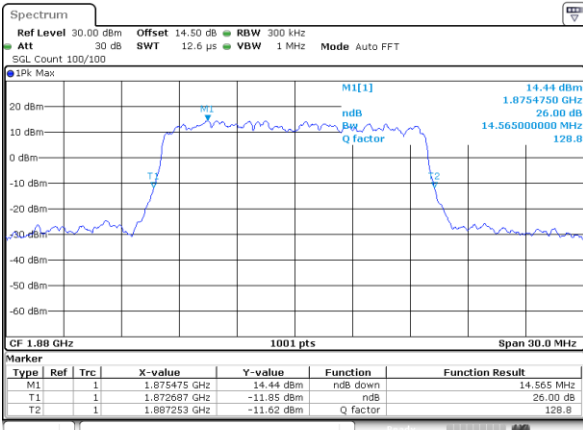
Date: 25 JUN 2019 09:08:37

Lowest Channel / 15MHz / 16QAM



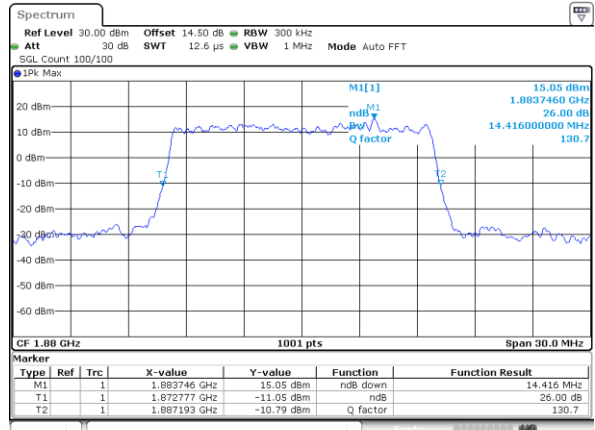
Date: 25 JUN 2019 09:08:47

Middle Channel / 15MHz / QPSK



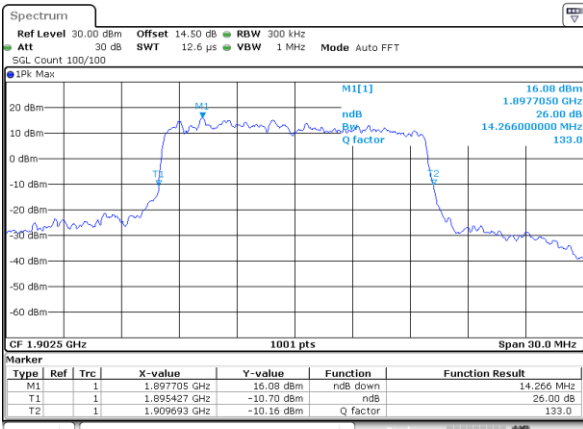
Date: 25 JUN 2019 09:15:46

Middle Channel / 15MHz / 16QAM



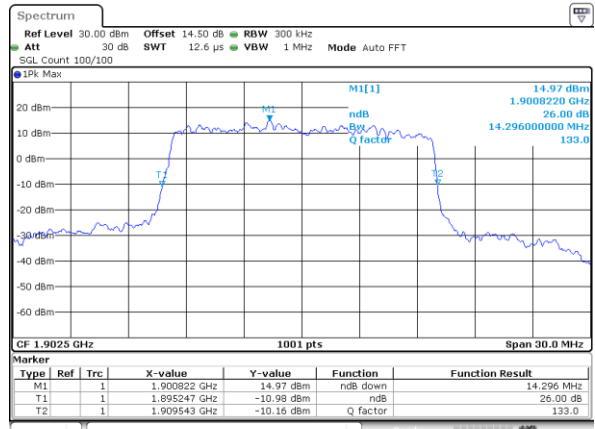
Date: 25 JUN 2019 09:15:56

Highest Channel / 15MHz / QPSK



Date: 25 JUN 2019 09:18:19

Highest Channel / 15MHz / 16QAM

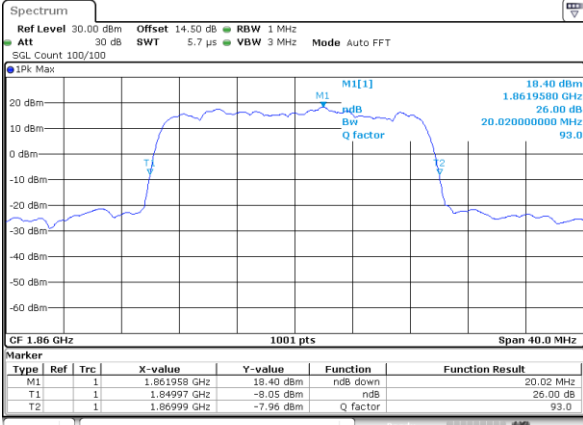


Date: 25 JUN 2019 09:18:29



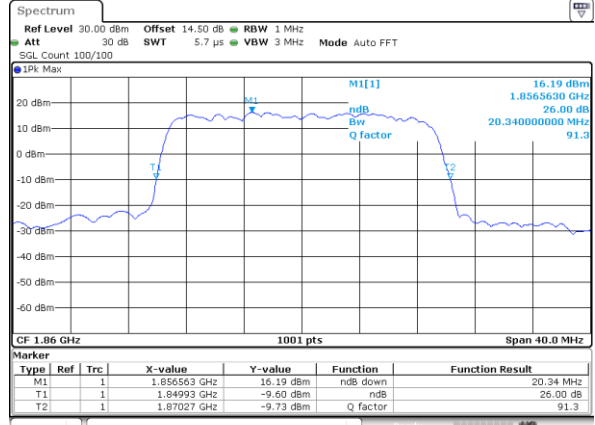
LTE Band 2

Lowest Channel / 20MHz / QPSK



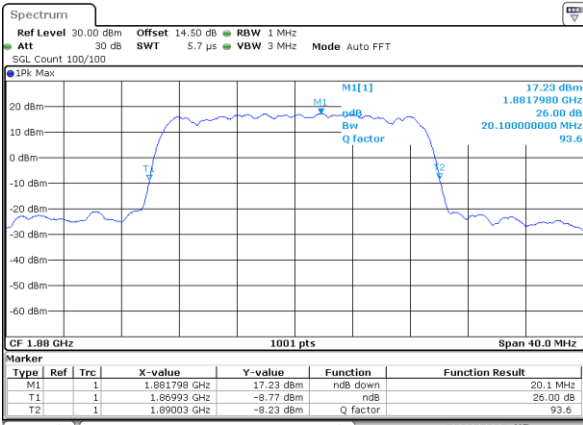
Date: 25 JUN 2019 09:29:52

Lowest Channel / 20MHz / 16QAM



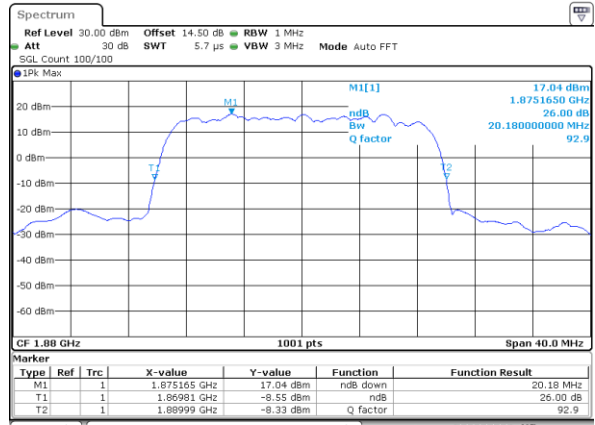
Date: 25 JUN 2019 09:30:03

Middle Channel / 20MHz / QPSK



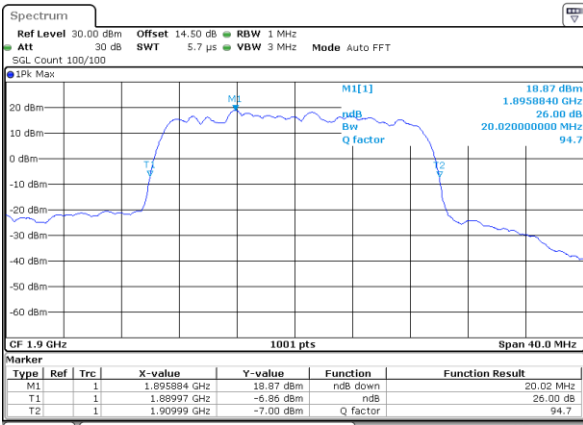
Date: 25 JUN 2019 09:37:01

Middle Channel / 20MHz / 16QAM



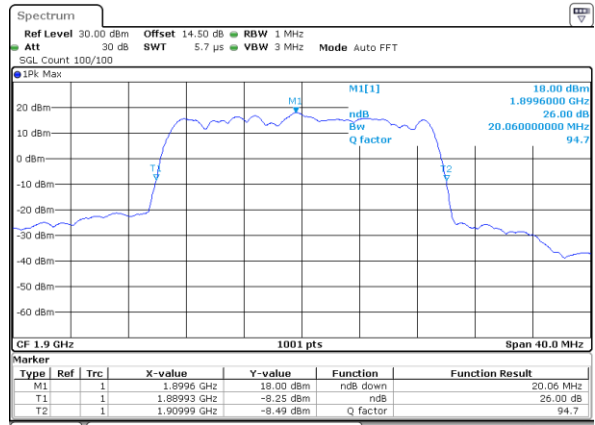
Date: 25 JUN 2019 09:37:11

Highest Channel / 20MHz / QPSK



Date: 25 JUN 2019 09:39:34

Highest Channel / 20MHz / 16QAM

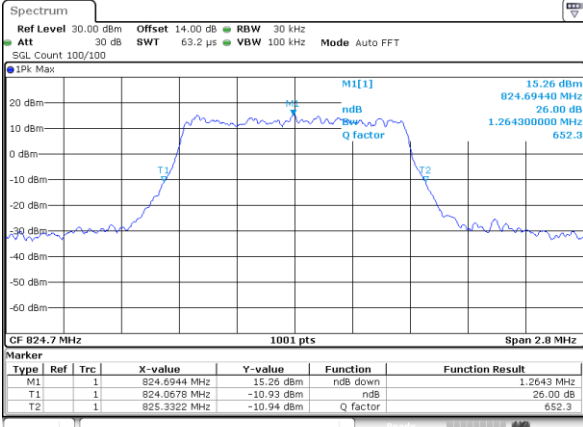


Date: 25 JUN 2019 09:39:44



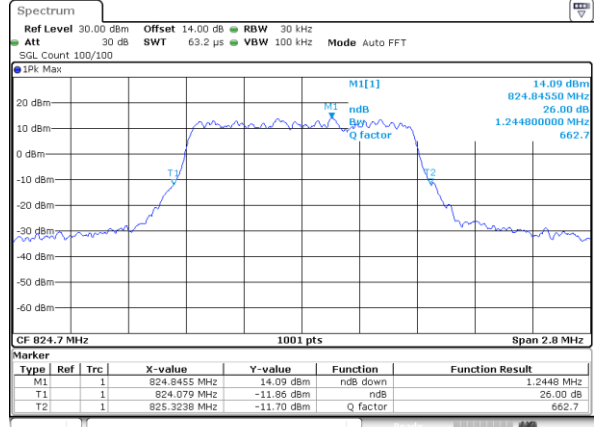
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



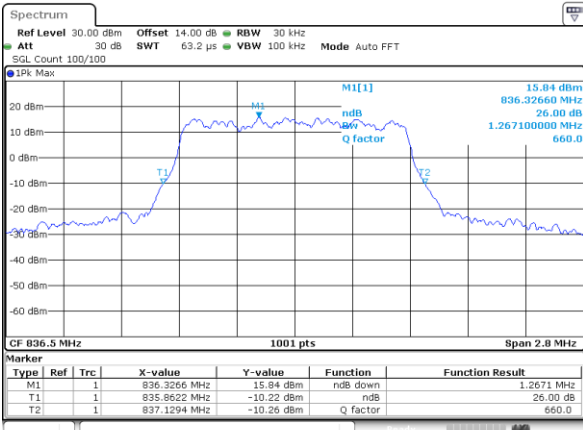
Date: 25 JUN 2019 05:18:10

Lowest Channel / 1.4MHz / 16QAM



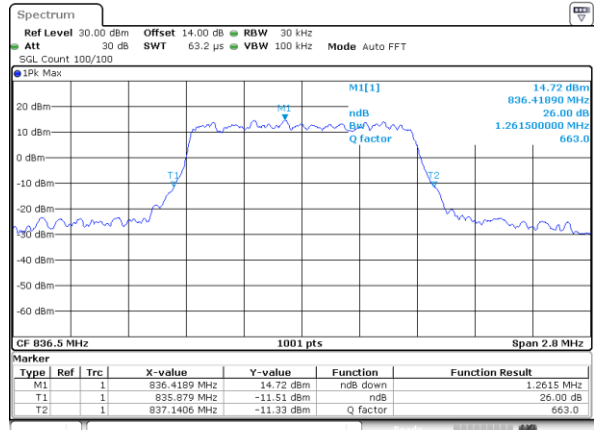
Date: 25 JUN 2019 05:18:00

Middle Channel / 1.4MHz / QPSK



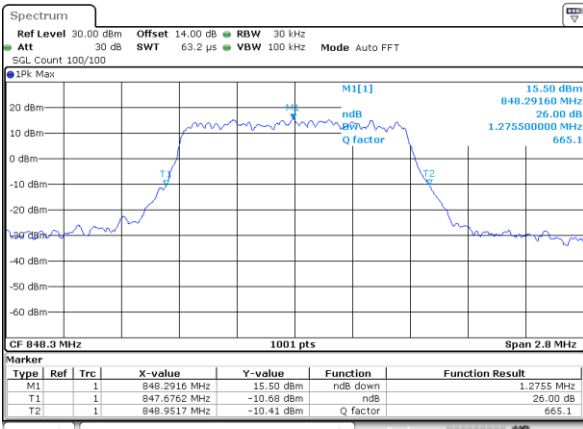
Date: 25 JUN 2019 05:27:12

Middle Channel / 1.4MHz / 16QAM



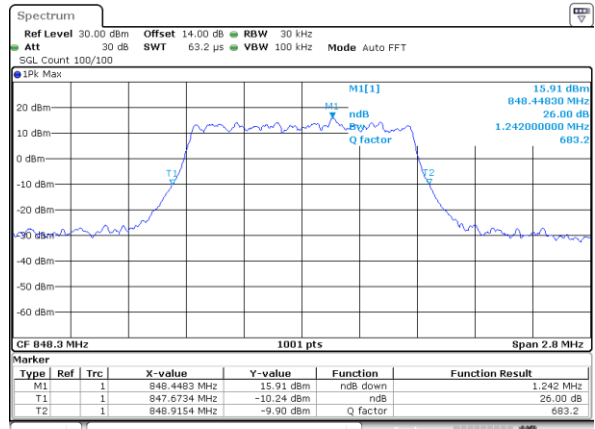
Date: 25 JUN 2019 05:27:22

Highest Channel / 1.4MHz / QPSK



Date: 25 JUN 2019 05:29:46

Highest Channel / 1.4MHz / 16QAM

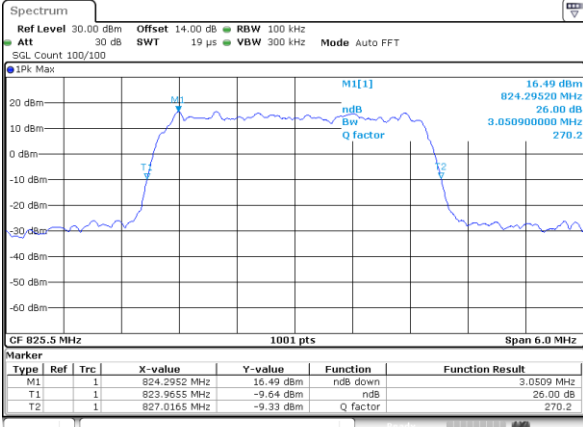


Date: 25 JUN 2019 05:29:56



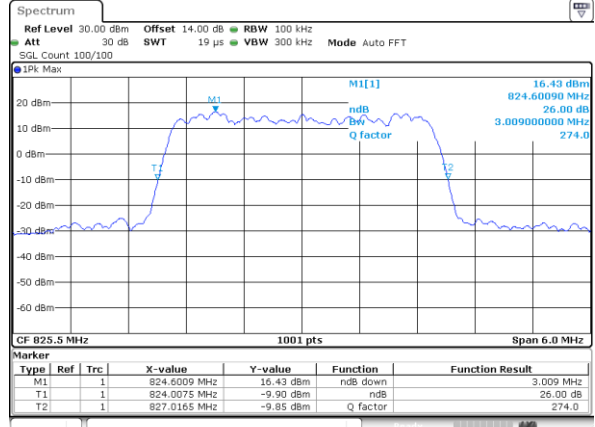
LTE Band 5

Lowest Channel / 3MHz / QPSK



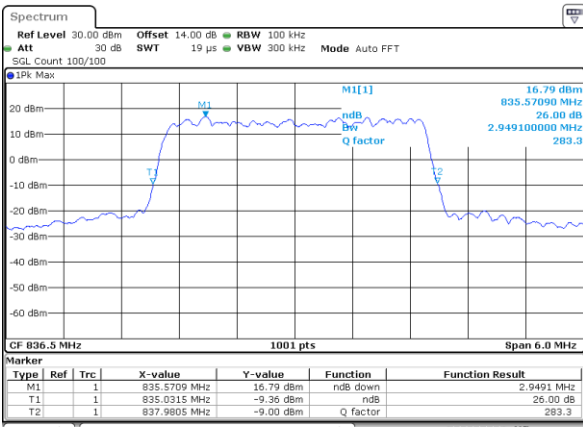
Date: 25 JUN 2019 05:43:50

Lowest Channel / 3MHz / 16QAM



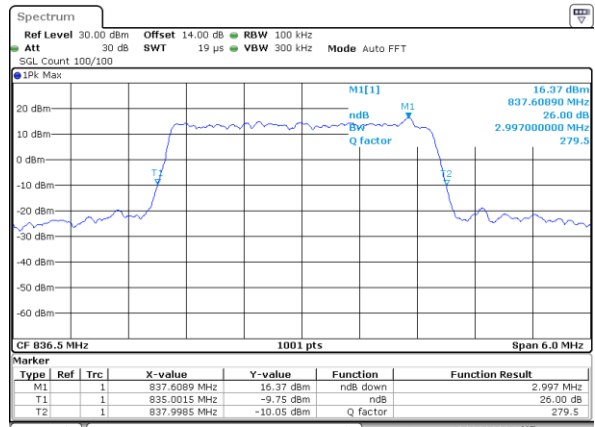
Date: 25 JUN 2019 05:44:01

Middle Channel / 3MHz / QPSK



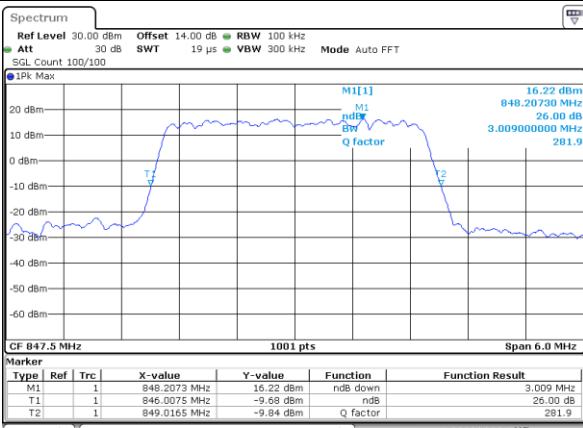
Date: 25 JUN 2019 05:53:00

Middle Channel / 3MHz / 16QAM



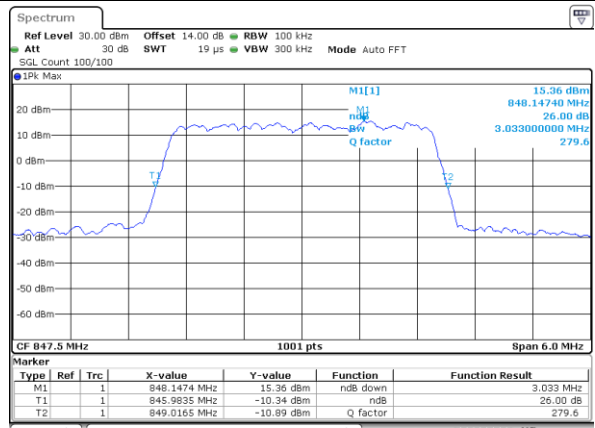
Date: 25 JUN 2019 05:53:11

Highest Channel / 3MHz / QPSK



Date: 25 JUN 2019 05:55:34

Highest Channel / 3MHz / 16QAM

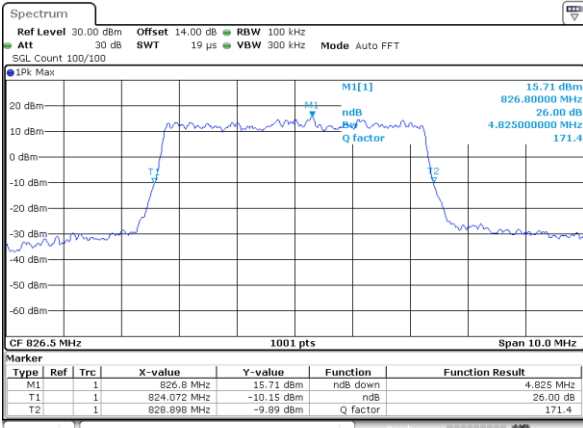


Date: 25 JUN 2019 05:55:44



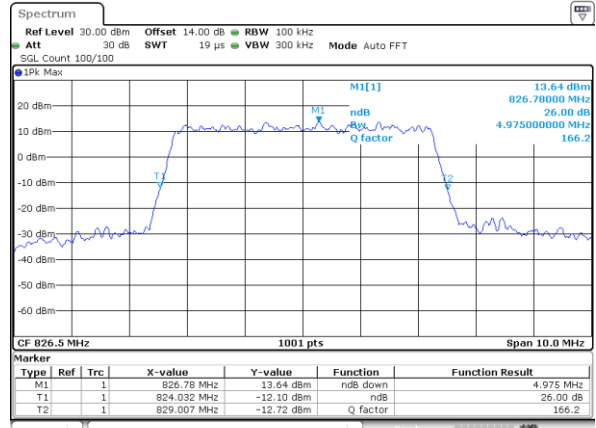
LTE Band 5

Lowest Channel / 5MHz / QPSK



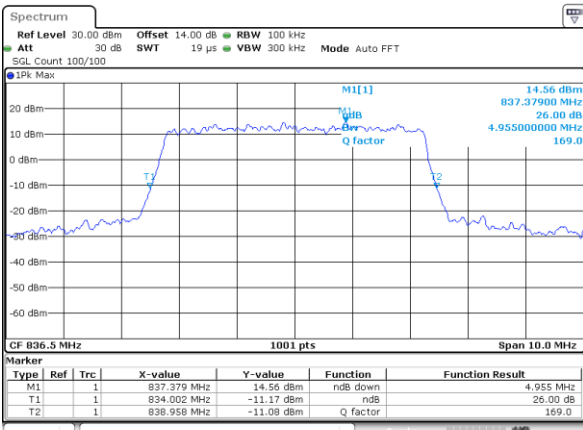
Date: 25 JUN 2019 06:09:52

Lowest Channel / 5MHz / 16QAM



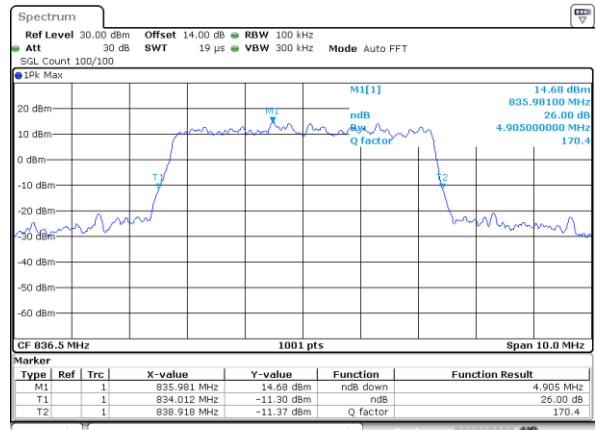
Date: 25 JUN 2019 06:11:03

Middle Channel / 5MHz / QPSK



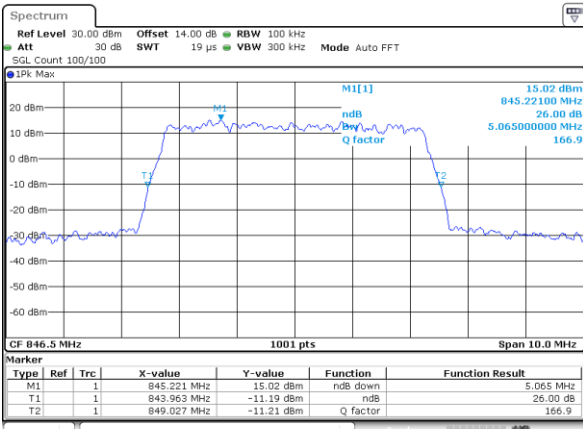
Date: 25 JUN 2019 06:19:03

Middle Channel / 5MHz / 16QAM



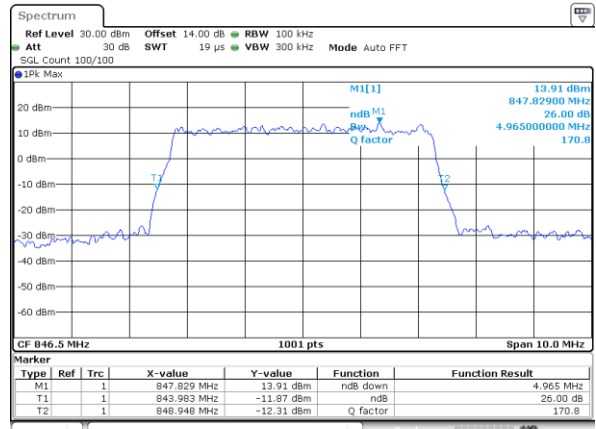
Date: 25 JUN 2019 06:19:13

Highest Channel / 5MHz / QPSK



Date: 25 JUN 2019 06:21:36

Highest Channel / 5MHz / 16QAM

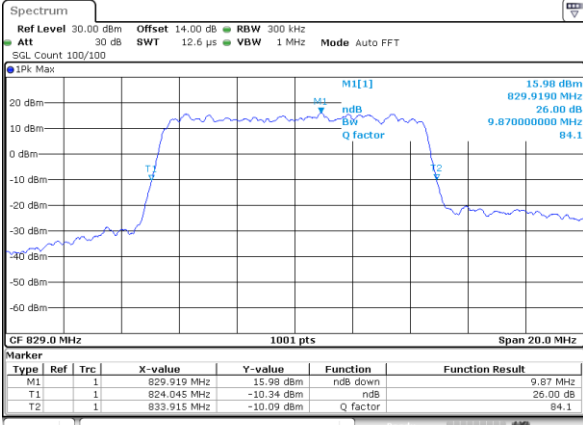


Date: 25 JUN 2019 06:21:46



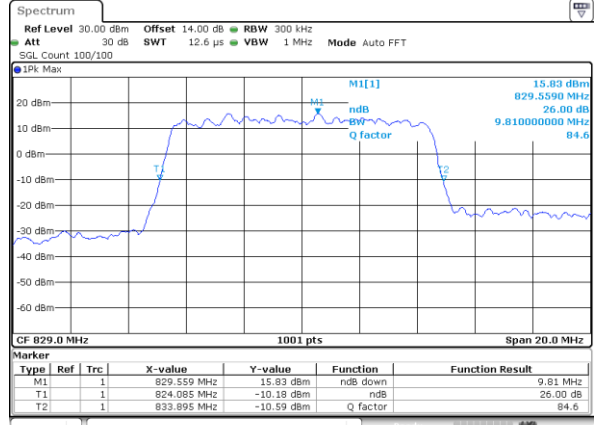
LTE Band 5

Lowest Channel / 10MHz / QPSK



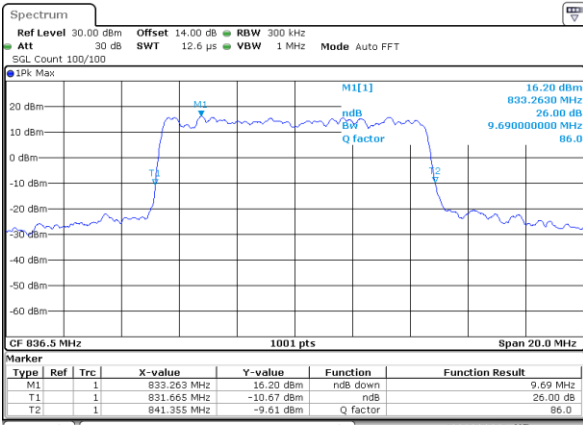
Date: 25 JUN 2019 06:51:01

Lowest Channel / 10MHz / 16QAM



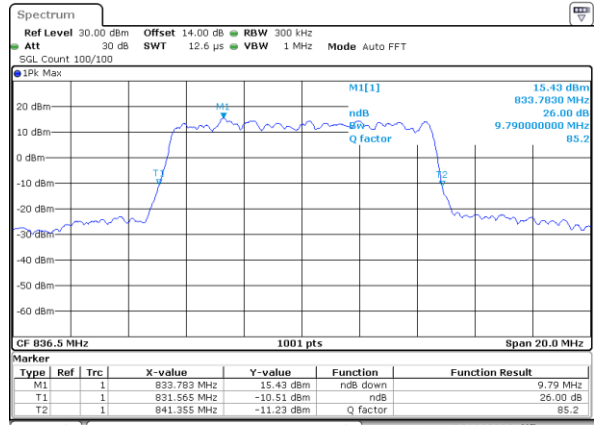
Date: 25 JUN 2019 06:51:11

Middle Channel / 10MHz / QPSK



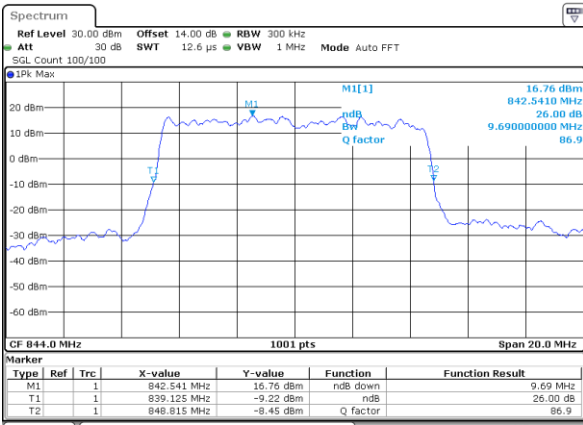
Date: 25 JUN 2019 07:00:11

Middle Channel / 10MHz / 16QAM



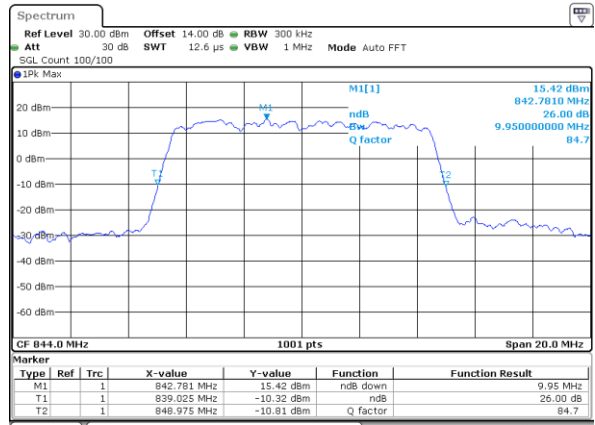
Date: 25 JUN 2019 07:00:21

Highest Channel / 10MHz / QPSK



Date: 25 JUN 2019 07:02:44

Highest Channel / 10MHz / 16QAM

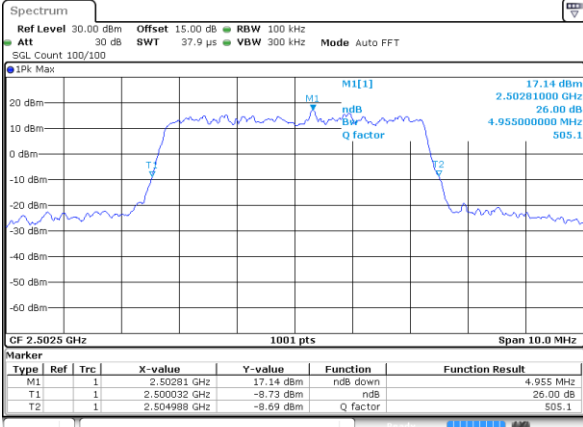


Date: 25 JUN 2019 07:02:54



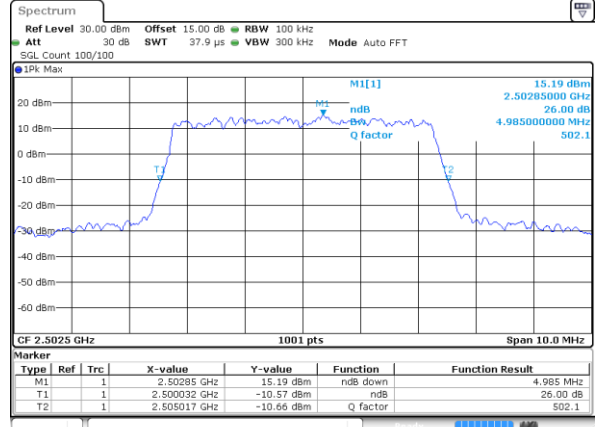
LTE Band 7

Lowest Channel / 5MHz / QPSK



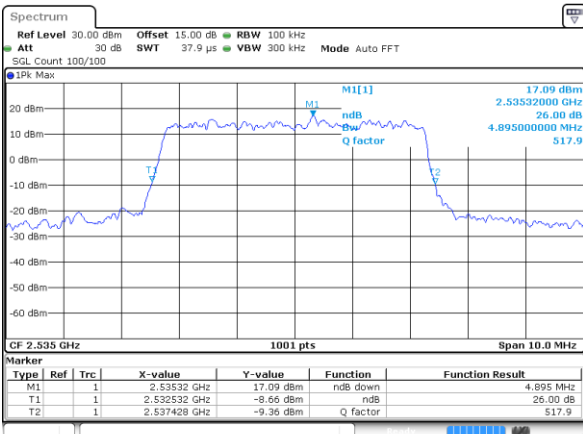
Date: 24 JUN 2019 12:13:47

Lowest Channel / 5MHz / 16QAM



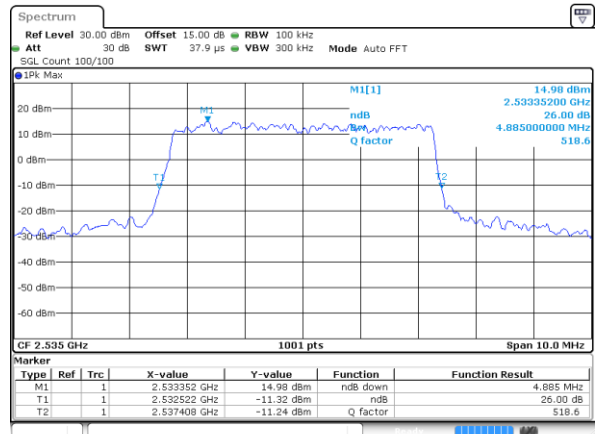
Date: 24 JUN 2019 11:40:25

Middle Channel / 5MHz / QPSK



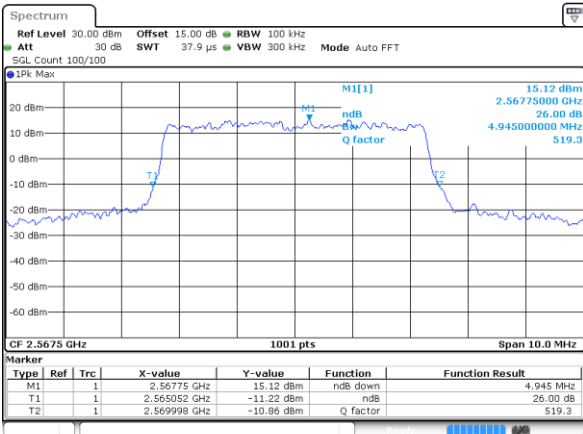
Date: 24 JUN 2019 12:15:02

Middle Channel / 5MHz / 16QAM



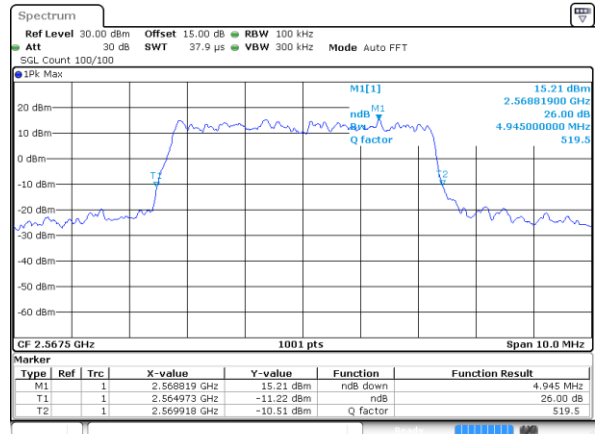
Date: 24 JUN 2019 12:14:38

Highest Channel / 5MHz / QPSK



Date: 24 JUN 2019 12:15:53

Highest Channel / 5MHz / 16QAM

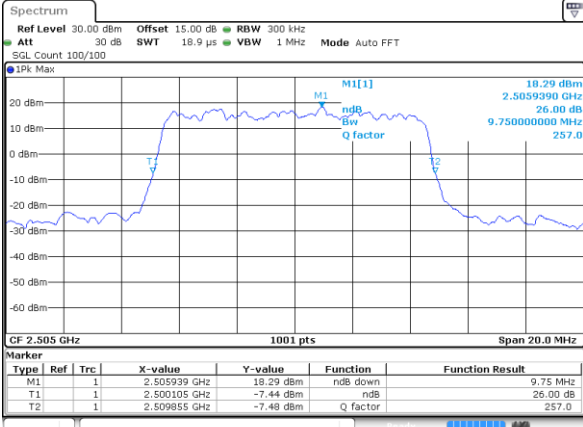


Date: 24 JUN 2019 12:15:32



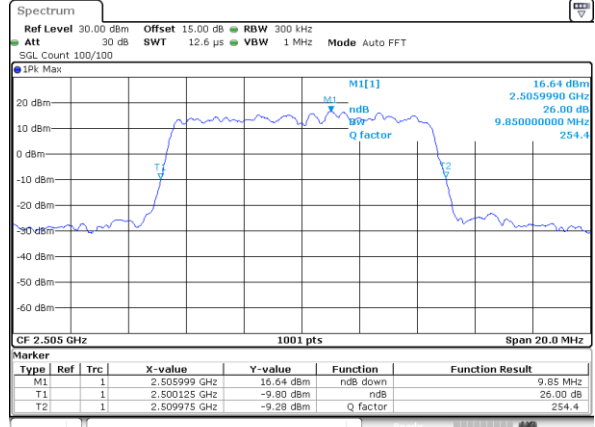
LTE Band 7

Lowest Channel / 10MHz / QPSK



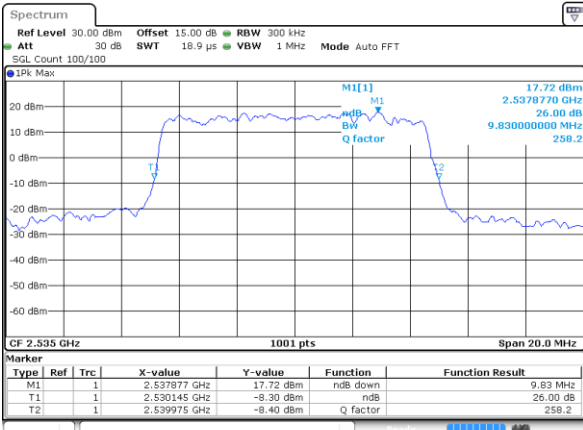
Date: 24 JUN 2019 11:44:35

Lowest Channel / 10MHz / 16QAM



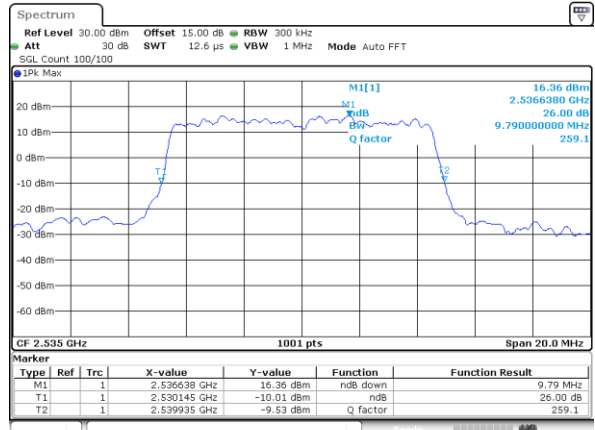
Date: 24 JUN 2019 00:10:13B

Middle Channel / 10MHz / QPSK



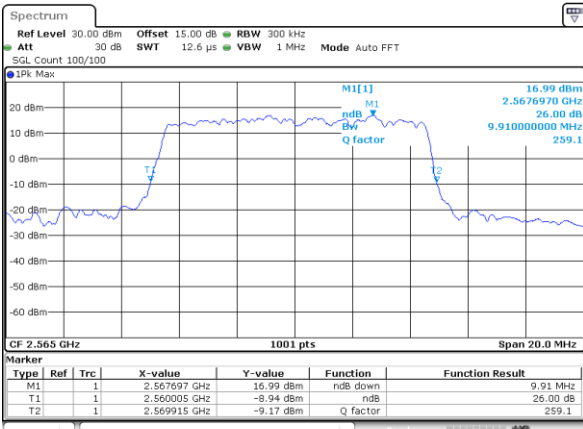
Date: 24 JUN 2019 11:44:45

Middle Channel / 10MHz / 16QAM



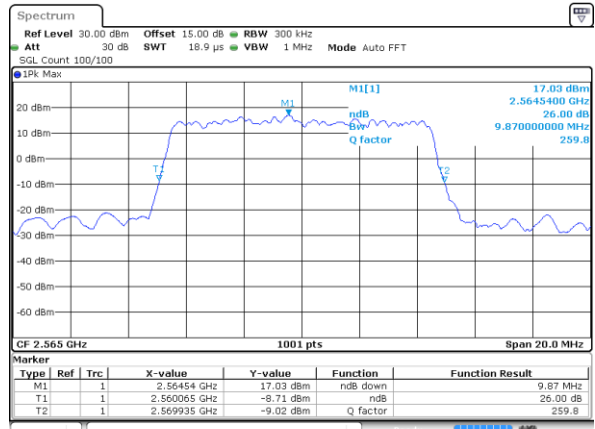
Date: 24 JUN 2019 00:11:21B

Highest Channel / 10MHz / QPSK



Date: 24 JUN 2019 00:10:27

Highest Channel / 10MHz / 16QAM



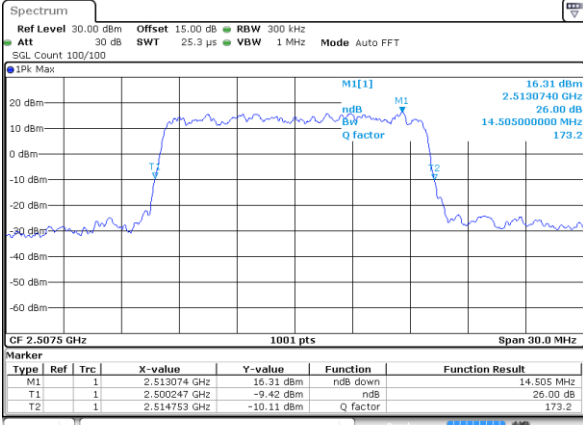
Date: 24 JUN 2019 11:45:26





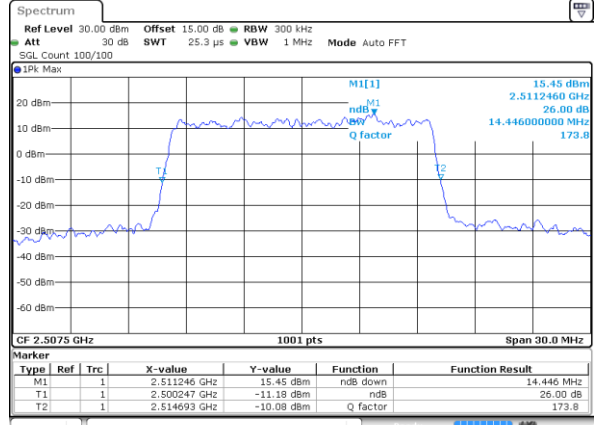
LTE Band 7

Lowest Channel / 15MHz / QPSK



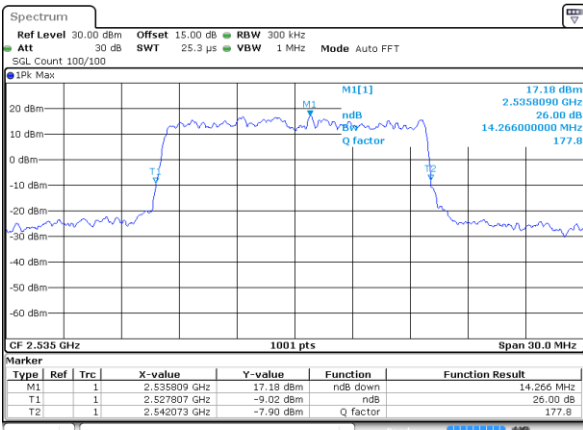
Date: 24 JUN 2019 11:51:54

Lowest Channel / 15MHz / 16QAM



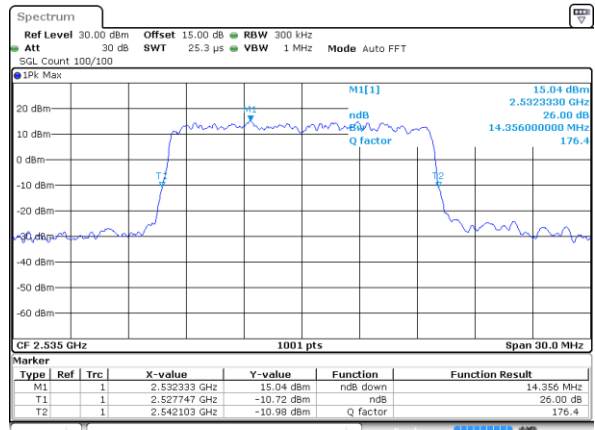
Date: 24 JUN 2019 11:52:24

Middle Channel / 15MHz / QPSK



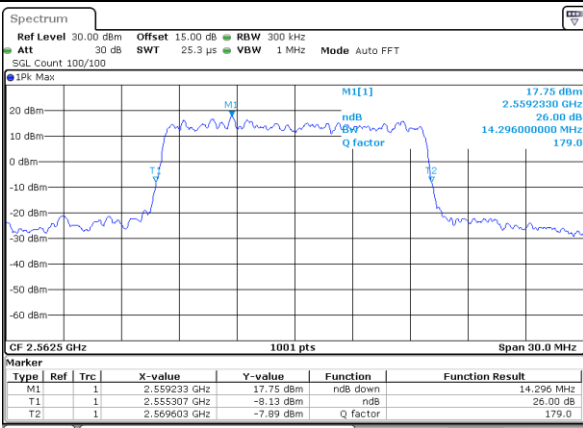
Date: 24 JUN 2019 11:52:04

Middle Channel / 15MHz / 16QAM



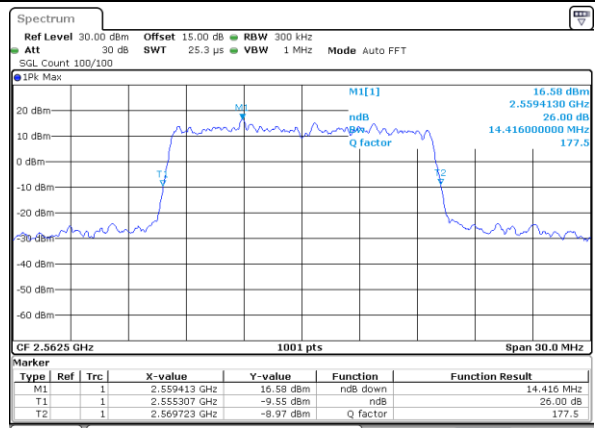
Date: 24 JUN 2019 11:52:34

Highest Channel / 15MHz / QPSK



Date: 24 JUN 2019 11:52:14

Highest Channel / 15MHz / 16QAM

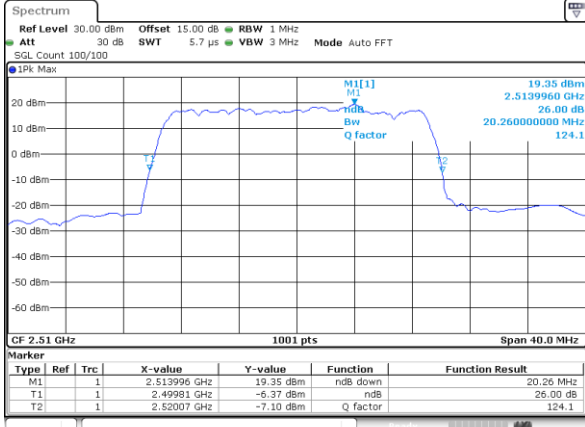


Date: 24 JUN 2019 11:52:44



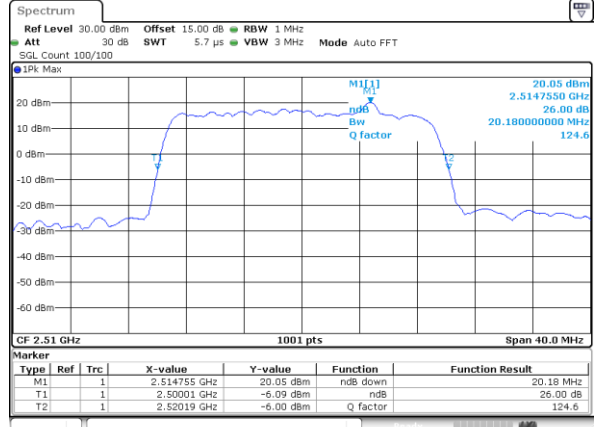
LTE Band 7

Lowest Channel / 20MHz / QPSK



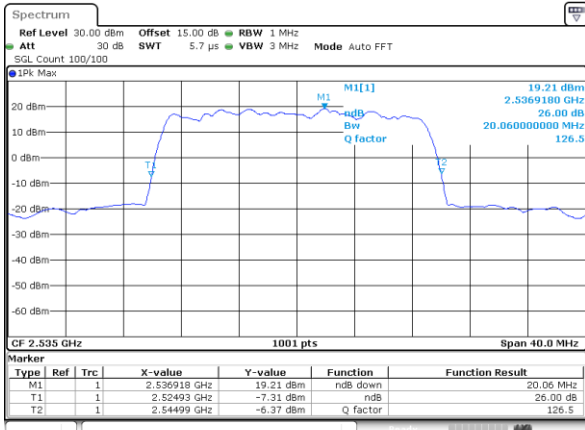
Date: 24 JUN 2019 00:17:35

Lowest Channel / 20MHz / 16QAM



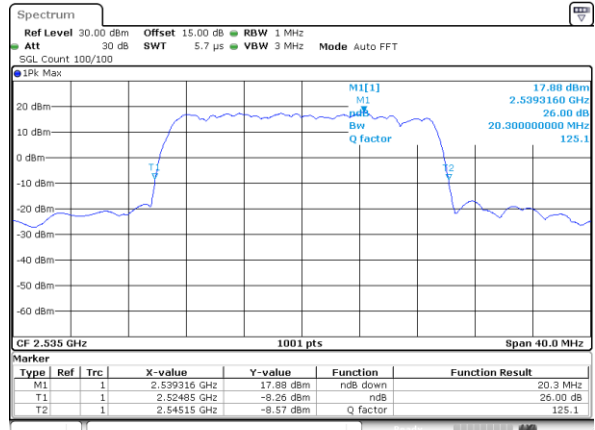
Date: 24 JUN 2019 00:18:06

Middle Channel / 20MHz / QPSK



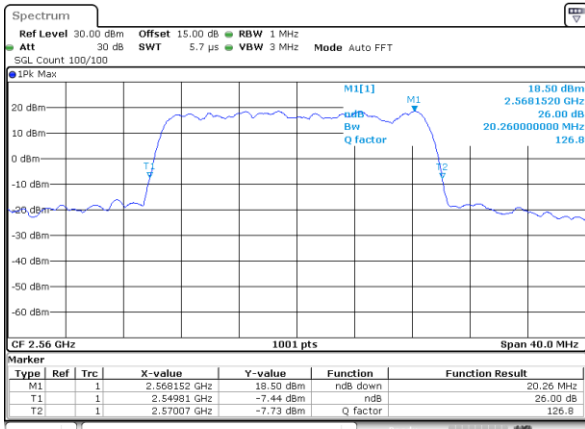
Date: 24 JUN 2019 00:17:45

Middle Channel / 20MHz / 16QAM



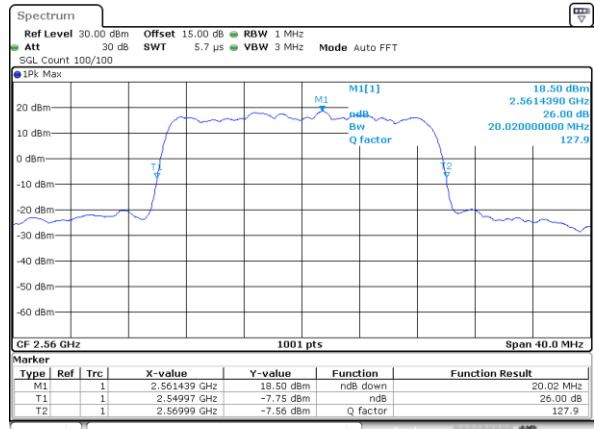
Date: 24 JUN 2019 00:18:16

Highest Channel / 20MHz / QPSK



Date: 24 JUN 2019 00:17:55

Highest Channel / 20MHz / 16QAM



Date: 24 JUN 2019 00:18:26



## 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 | 2.70  | 4.50 | 4.50  | 8.95  | 9.01  | 13.40 | 13.37 | 18.22 | 18.26 |
| Middle CH  | 1.09                     | 1.09  | 2.73 | 2.73  | 4.48 | 4.49  | 9.03  | 8.99  | 13.43 | 13.40 | 18.22 | 18.26 |
| Highest CH | 1.10                     | 1.10  | 2.70 | 2.71  | 4.51 | 4.50  | 8.95  | 8.93  | 13.34 | 13.34 | 18.26 | 18.26 |

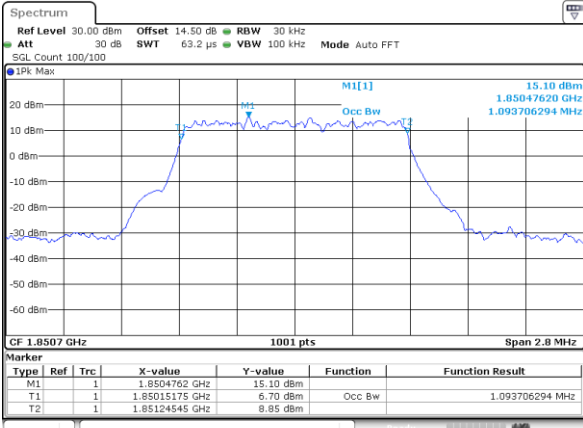
| Mode       | LTE Band 5 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|            | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.09                     | 1.09  | 2.72 | 2.71  | 4.49 | 4.51  | 8.99  | 8.97  | -     | -     | -     | -     |
| Middle CH  | 1.09                     | 1.10  | 2.71 | 2.73  | 4.52 | 4.50  | 9.07  | 9.01  | -     | -     | -     | -     |
| Highest CH | 1.08                     | 1.09  | 2.71 | 2.73  | 4.50 | 4.49  | 9.03  | 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  | -                        | -     | -    | -     | 4.49 | 4.48  | 9.05  | 8.99  | 13.43 | 13.40 | 18.30 | 18.30 |
| Middle CH  | -                        | -     | -    | -     | 4.51 | 4.52  | 9.07  | 9.01  | 13.49 | 13.40 | 18.18 | 18.42 |
| Highest CH | -                        | -     | -    | -     | 4.53 | 4.49  | 9.05  | 8.99  | 13.40 | 13.46 | 18.30 | 18.58 |



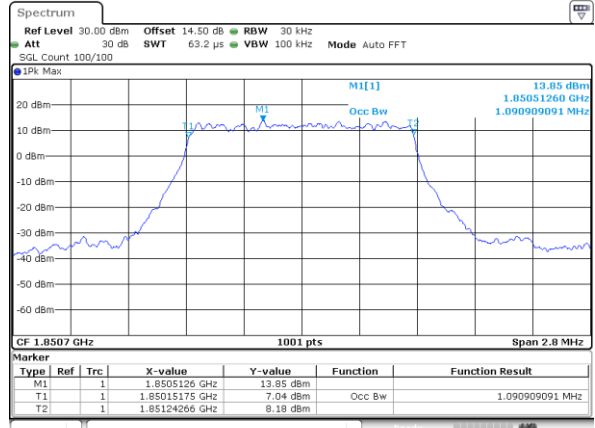
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



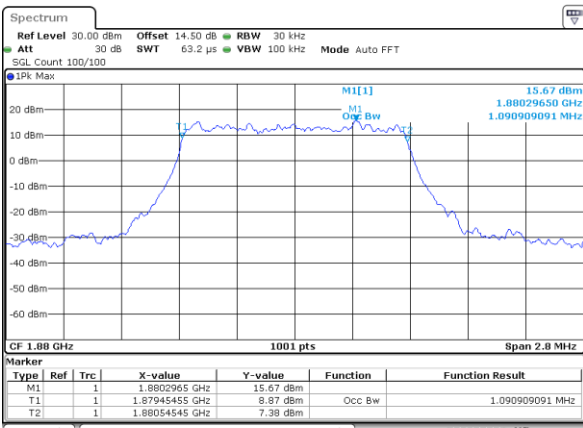
Date: 25 JUN 2019 08:00:47

Lowest Channel / 1.4MHz / 16QAM



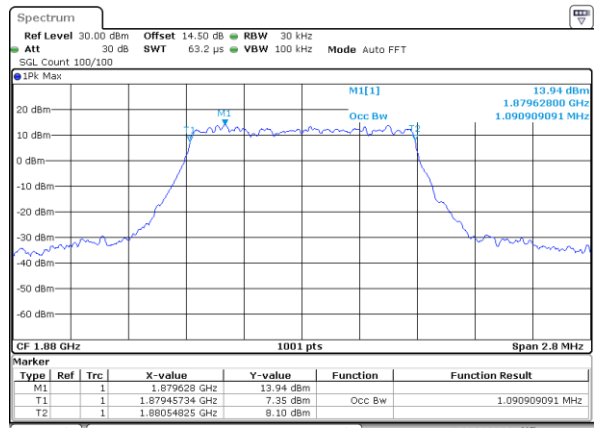
Date: 25 JUN 2019 08:00:57

Middle Channel / 1.4MHz / QPSK



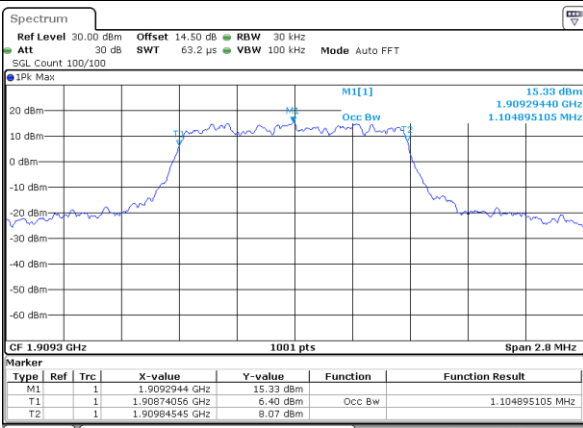
Date: 25 JUN 2019 08:07:58

Middle Channel / 1.4MHz / 16QAM



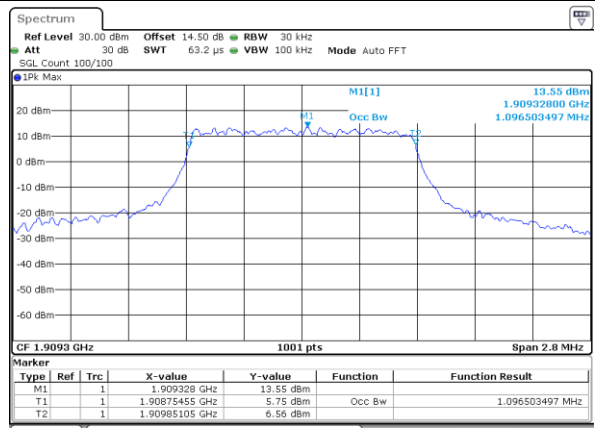
Date: 25 JUN 2019 08:08:08

Highest Channel / 1.4MHz / QPSK



Date: 25 JUN 2019 08:10:31

Highest Channel / 1.4MHz / 16QAM

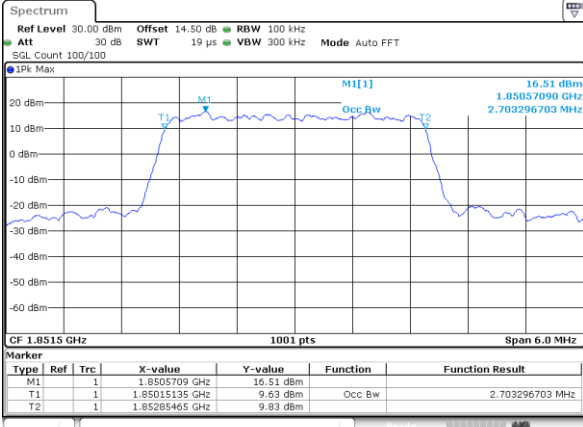


Date: 25 JUN 2019 08:10:41



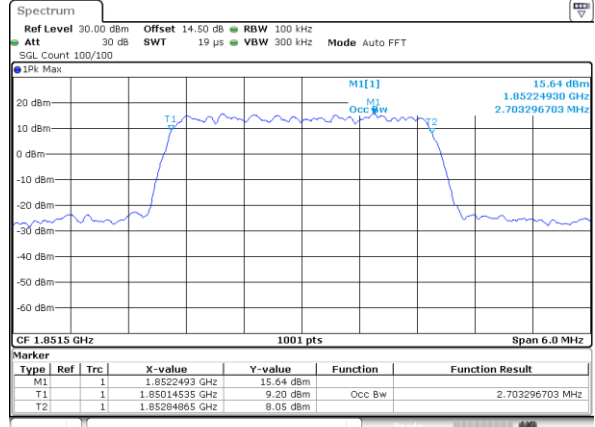
LTE Band 2

Lowest Channel / 3MHz / QPSK



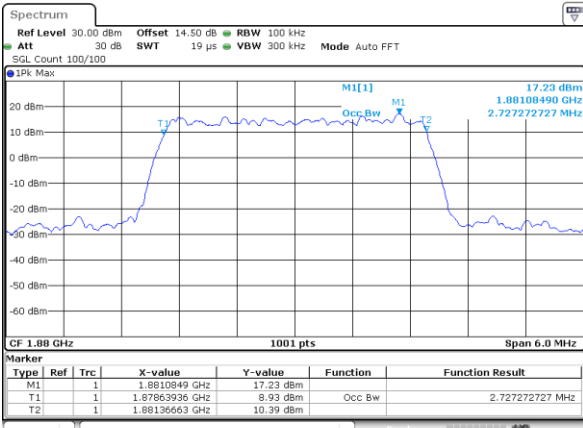
Date: 25 JUN 2019 08:17:40

Lowest Channel / 3MHz / 16QAM



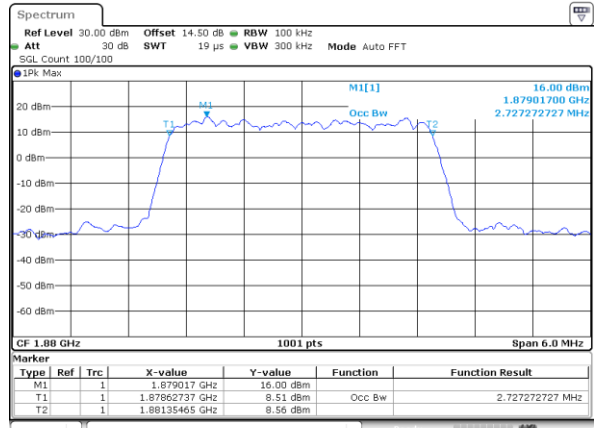
Date: 25 JUN 2019 08:17:50

Middle Channel / 3MHz / QPSK



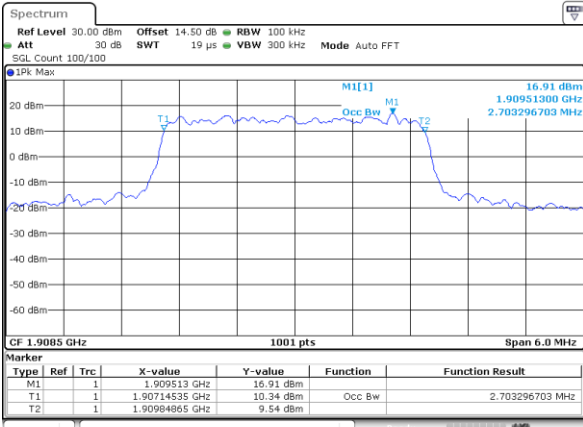
Date: 25 JUN 2019 08:24:50

Middle Channel / 3MHz / 16QAM



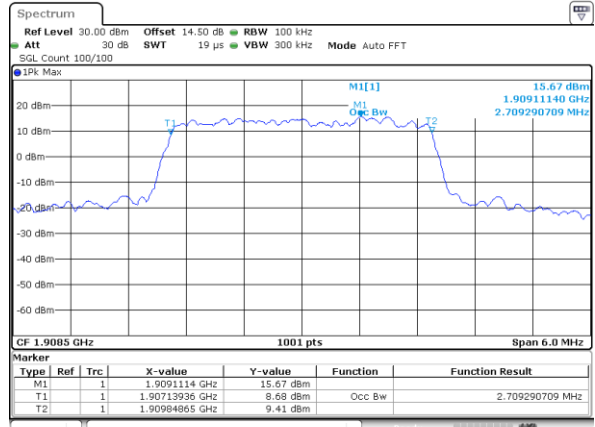
Date: 25 JUN 2019 08:25:00

Highest Channel / 3MHz / QPSK



Date: 25 JUN 2019 08:27:23

Highest Channel / 3MHz / 16QAM

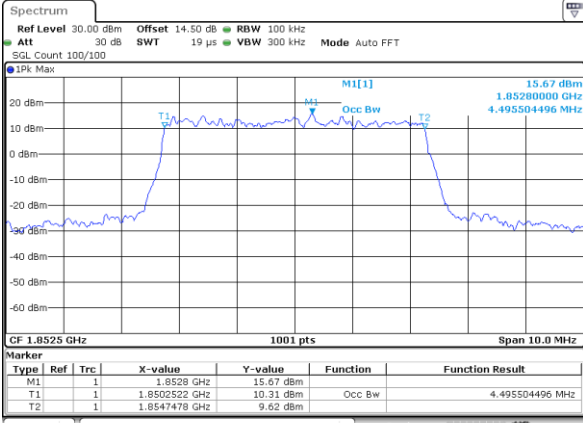


Date: 25 JUN 2019 08:27:33



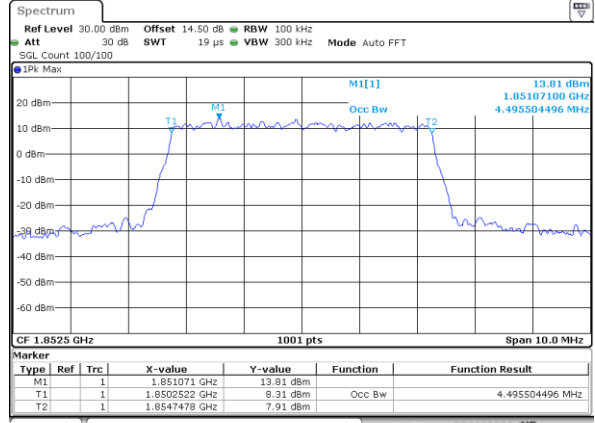
LTE Band 2

Lowest Channel / 5MHz / QPSK



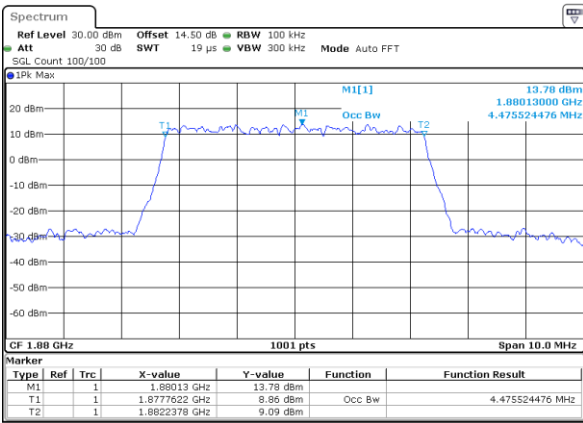
Date: 25 JUN 2019 08:34:32

Lowest Channel / 5MHz / 16QAM



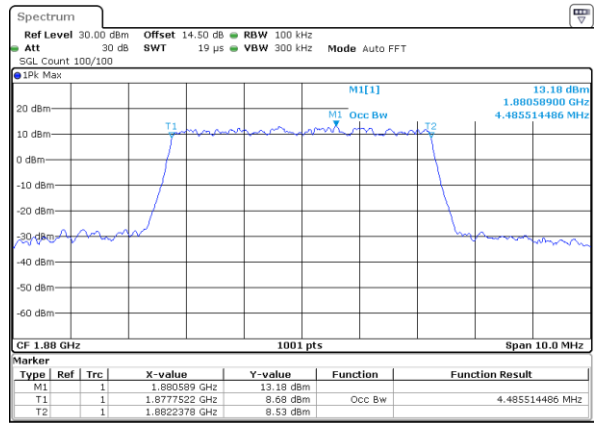
Date: 25 JUN 2019 08:34:43

Middle Channel / 5MHz / QPSK



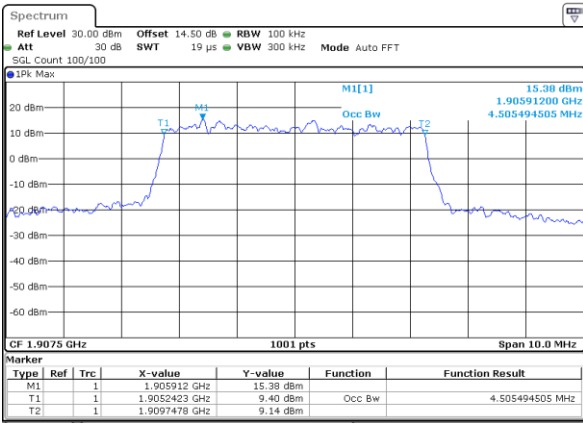
Date: 25 JUN 2019 08:41:42

Middle Channel / 5MHz / 16QAM



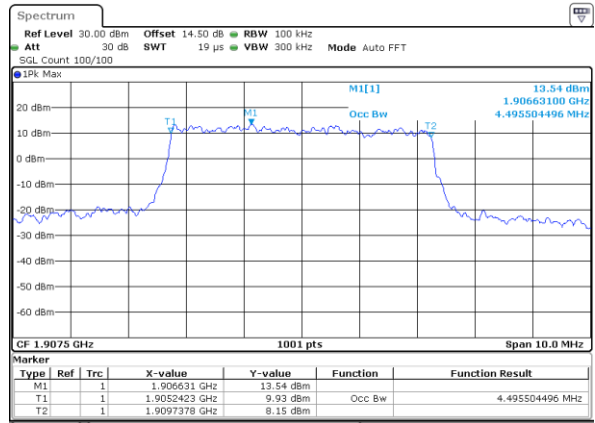
Date: 25 JUN 2019 08:41:52

Highest Channel / 5MHz / QPSK



Date: 25 JUN 2019 08:44:15

Highest Channel / 5MHz / 16QAM

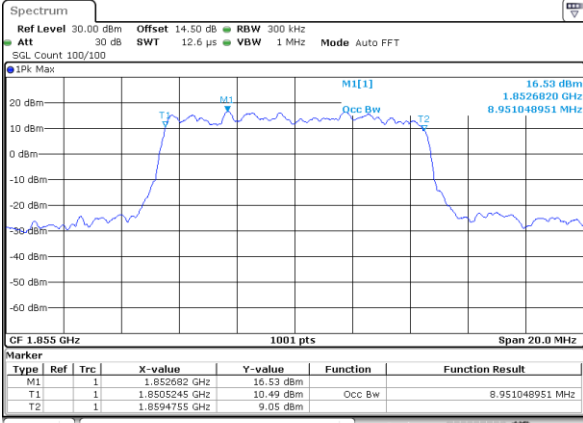


Date: 25 JUN 2019 08:44:25



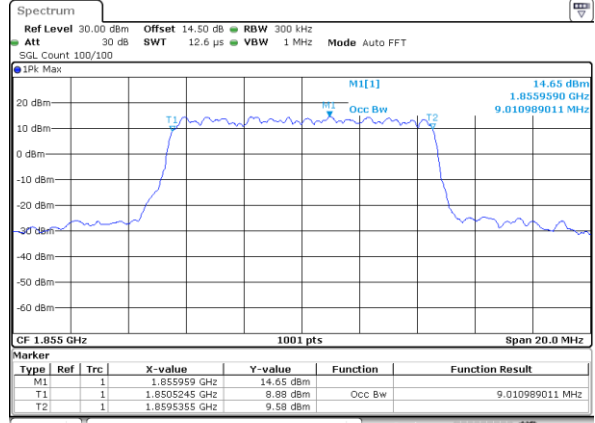
LTE Band 2

Lowest Channel / 10MHz / QPSK



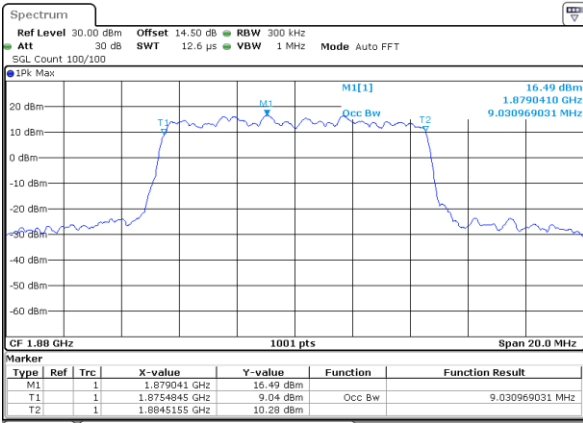
Date: 25 JUN 2019 08:51:24

Lowest Channel / 10MHz / 16QAM



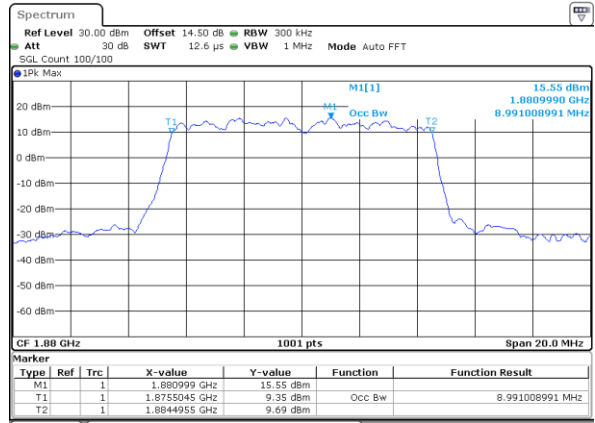
Date: 25 JUN 2019 08:51:35

Middle Channel / 10MHz / QPSK



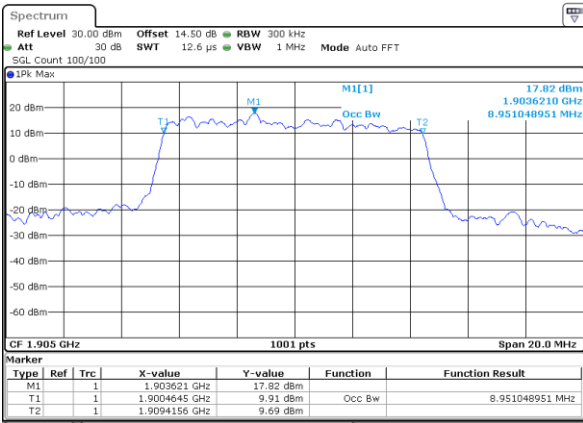
Date: 25 JUN 2019 08:58:34

Middle Channel / 10MHz / 16QAM



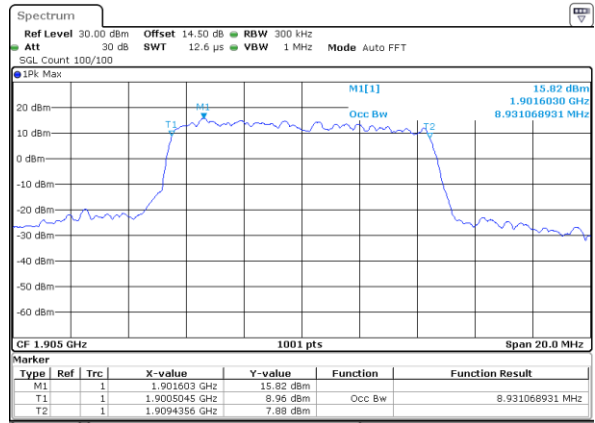
Date: 25 JUN 2019 08:58:44

Highest Channel / 10MHz / QPSK



Date: 25 JUN 2019 09:01:07

Highest Channel / 10MHz / 16QAM



Date: 25 JUN 2019 09:01:17