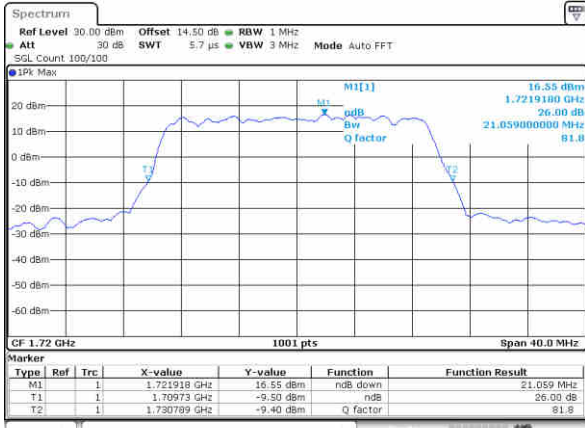




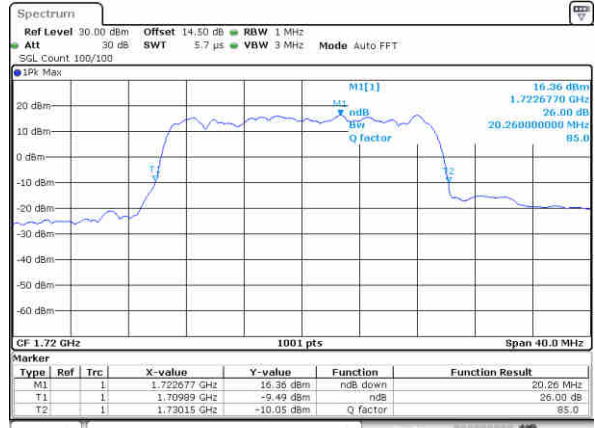
LTE Band 4

Lowest Channel / 20MHz / QPSK



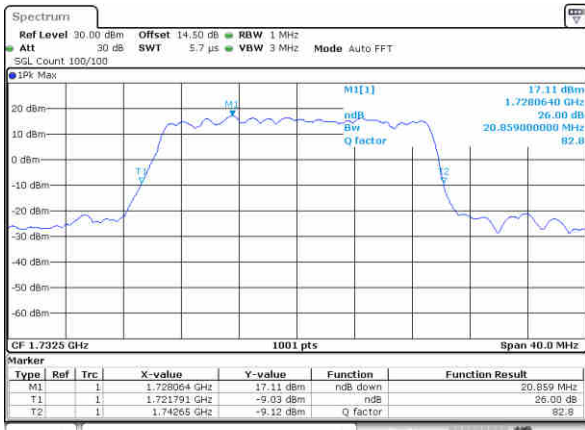
Date: 6, JAN, 2018 11:12:35

Lowest Channel / 20MHz / 16QAM



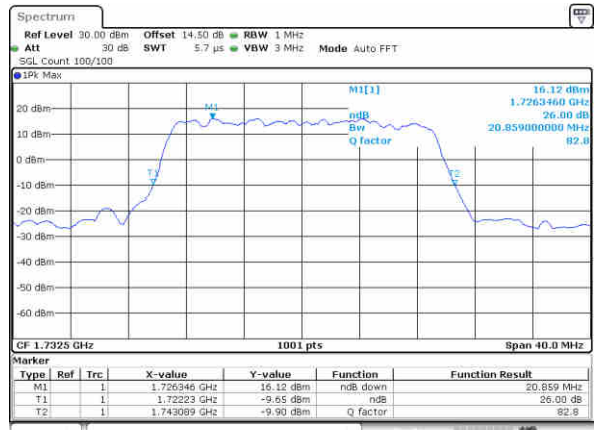
Date: 6, JAN, 2018 11:12:45

Middle Channel / 20MHz / QPSK



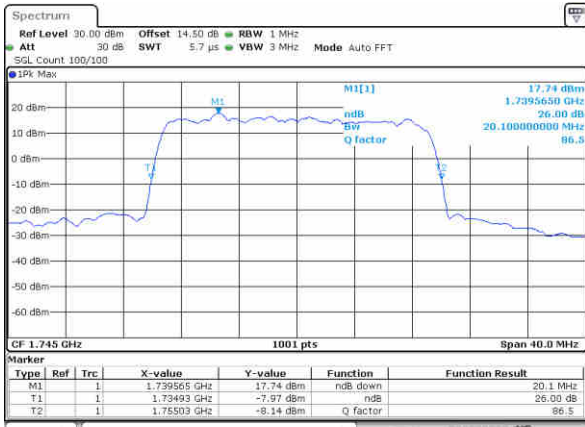
Date: 6, JAN, 2018 11:19:45

Middle Channel / 20MHz / 16QAM



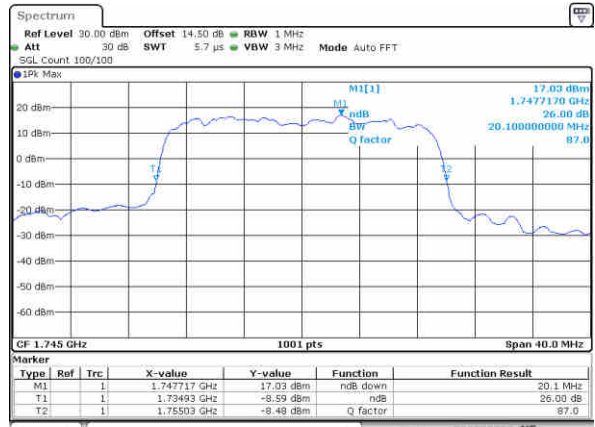
Date: 6, JAN, 2018 11:19:55

Highest Channel / 20MHz / QPSK



Date: 6, JAN, 2018 11:22:17

Highest Channel / 20MHz / 16QAM

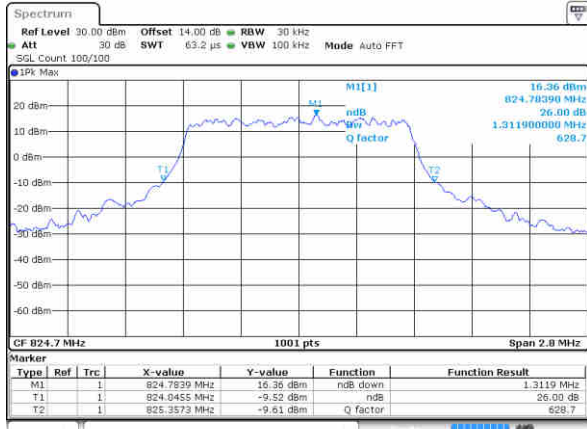


Date: 6, JAN, 2018 11:22:27



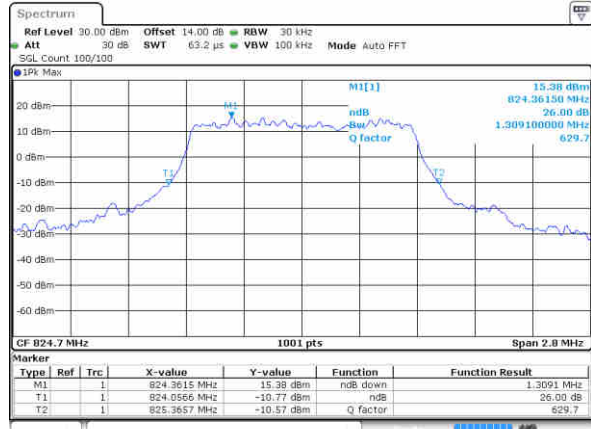
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



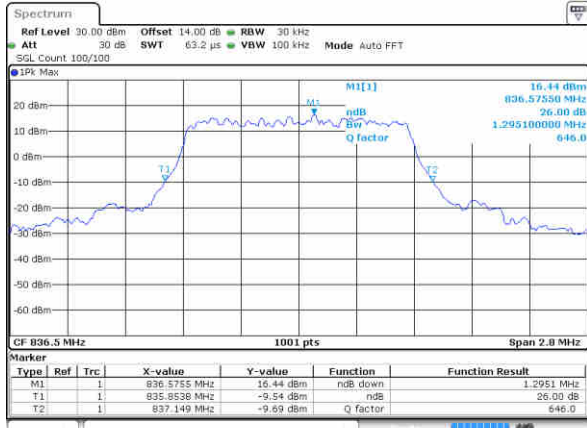
Date: 5 JAN 2018 15:38:49

Lowest Channel / 1.4MHz / 16QAM



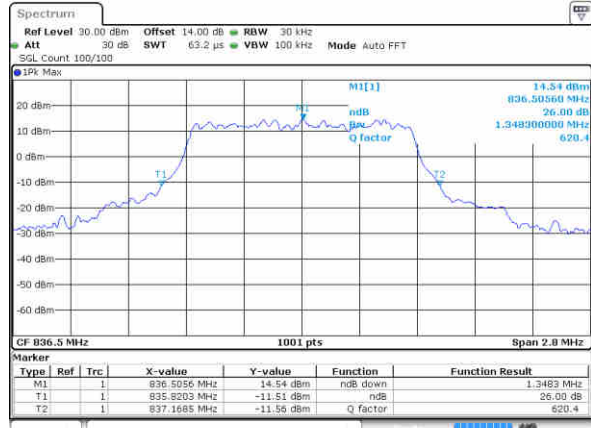
Date: 5 JAN 2018 15:38:39

Middle Channel / 1.4MHz / QPSK



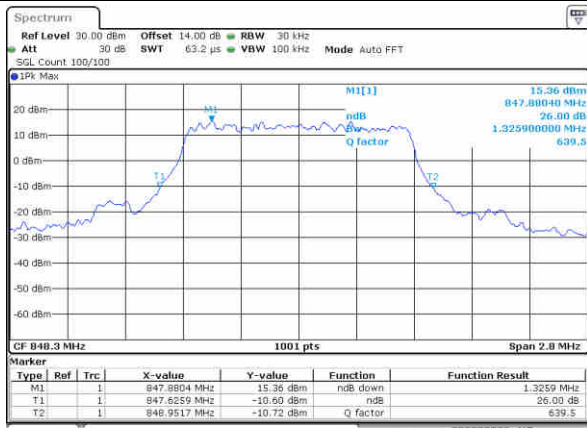
Date: 5 JAN 2018 16:50:57

Middle Channel / 1.4MHz / 16QAM



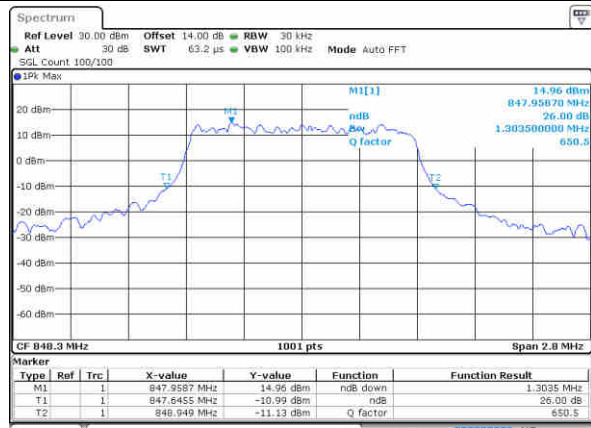
Date: 5 JAN 2018 16:51:07

Highest Channel / 1.4MHz / QPSK



Date: 5 JAN 2018 16:53:23

Highest Channel / 1.4MHz / 16QAM

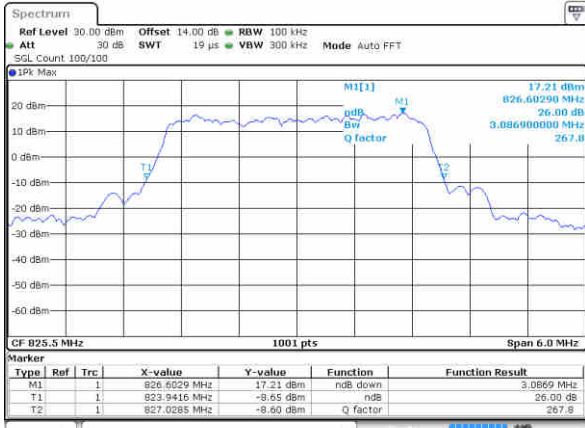


Date: 5 JAN 2018 16:53:33



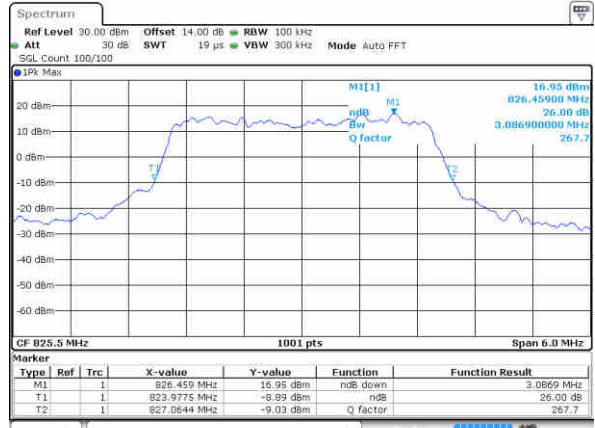
LTE Band 5

Lowest Channel / 3MHz / QPSK



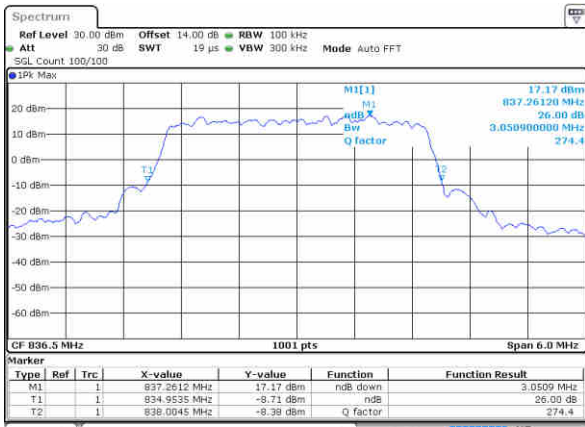
Date: 5 JAN 2018 17:04:29

Lowest Channel / 3MHz / 16QAM



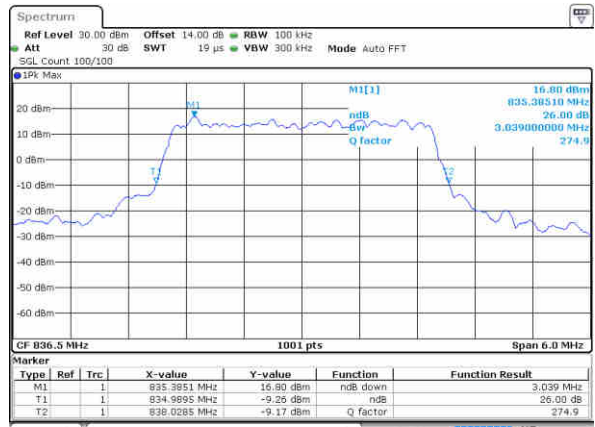
Date: 5 JAN 2018 17:04:39

Middle Channel / 3MHz / QPSK



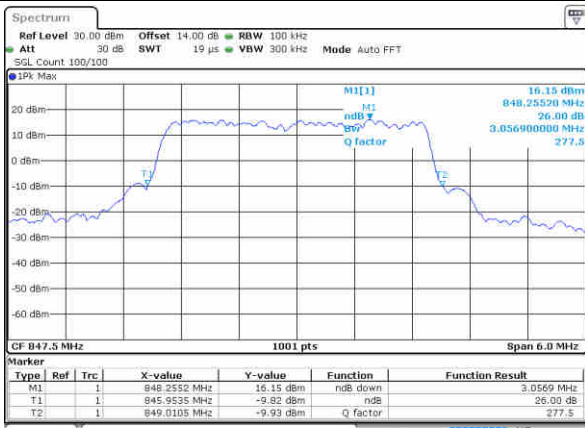
Date: 5 JAN 2018 17:13:26

Middle Channel / 3MHz / 16QAM



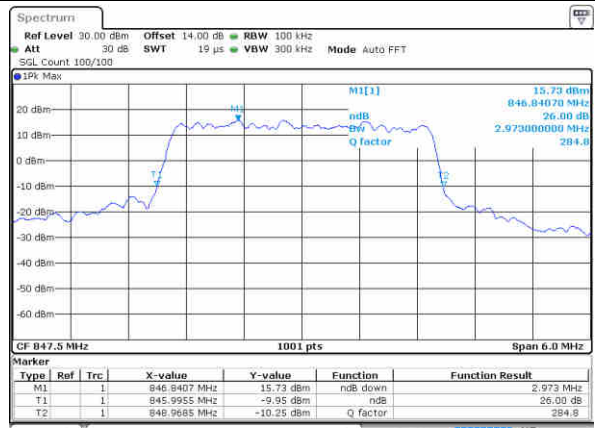
Date: 5 JAN 2018 17:13:36

Highest Channel / 3MHz / QPSK



Date: 5 JAN 2018 17:15:52

Highest Channel / 3MHz / 16QAM

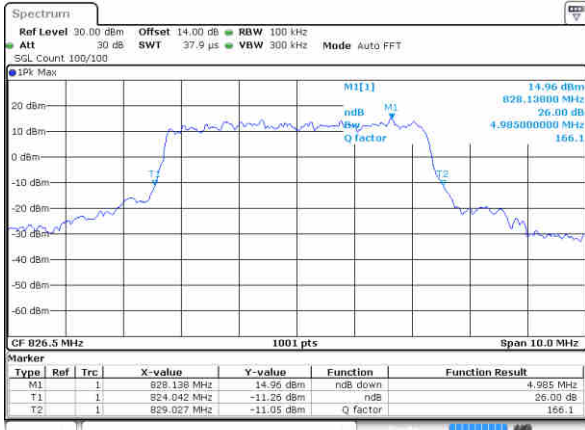


Date: 5 JAN 2018 17:16:01



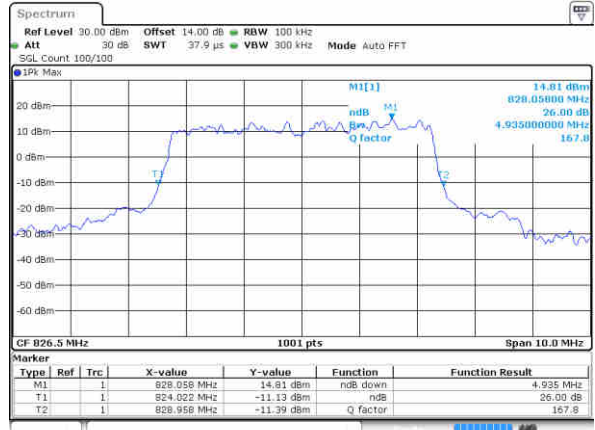
LTE Band 5

Lowest Channel / 5MHz / QPSK



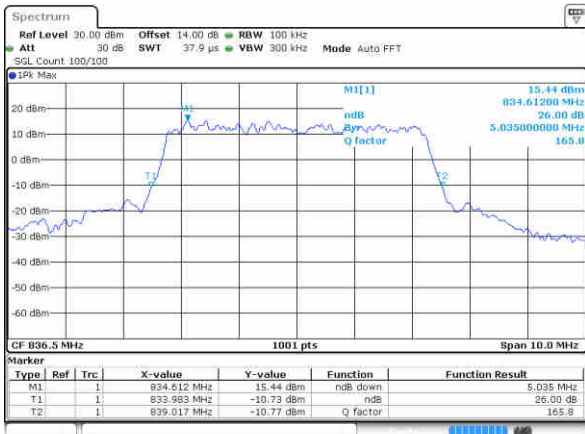
Date: 5 JAN 2018 17:24:49

Lowest Channel / 5MHz / 16QAM



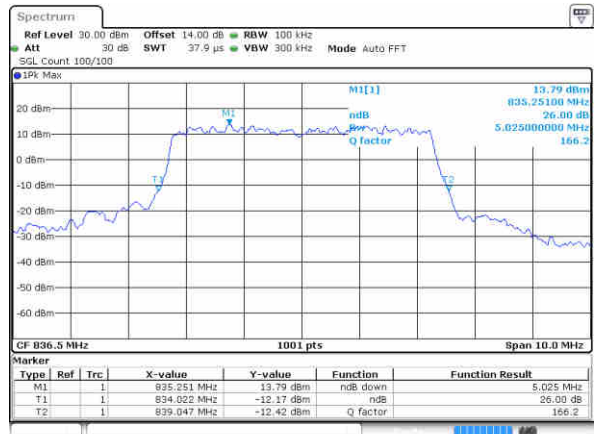
Date: 5 JAN 2018 17:24:59

Middle Channel / 5MHz / QPSK



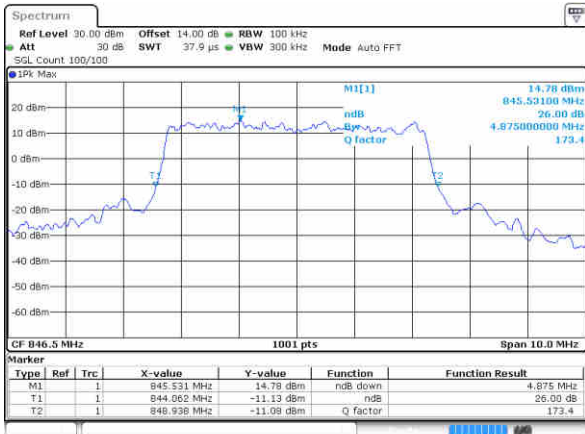
Date: 5 JAN 2018 17:33:59

Middle Channel / 5MHz / 16QAM



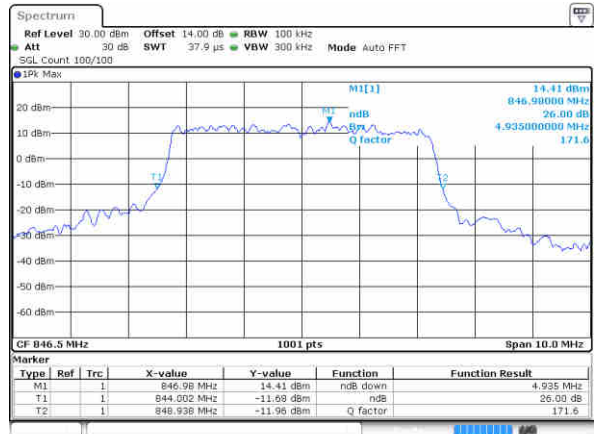
Date: 5 JAN 2018 17:34:09

Highest Channel / 5MHz / QPSK



Date: 5 JAN 2018 17:36:25

Highest Channel / 5MHz / 16QAM

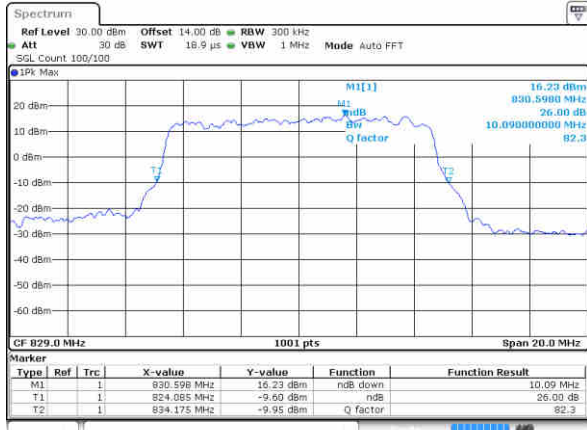


Date: 5 JAN 2018 17:36:35



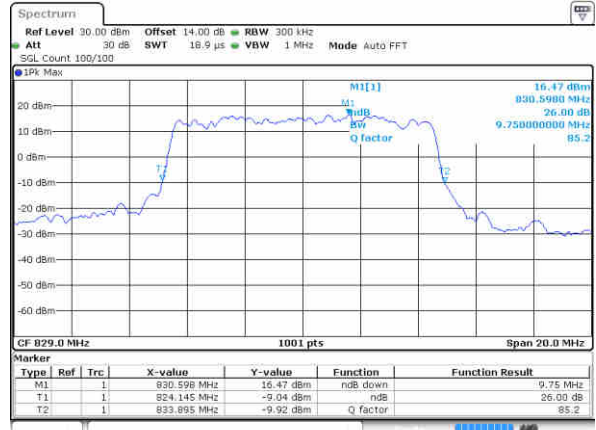
LTE Band 5

Lowest Channel / 10MHz / QPSK



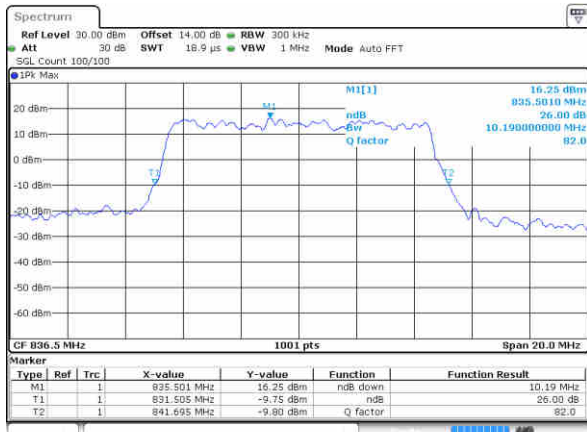
Date: 5 JAN 2018 19:00:02

Lowest Channel / 10MHz / 16QAM



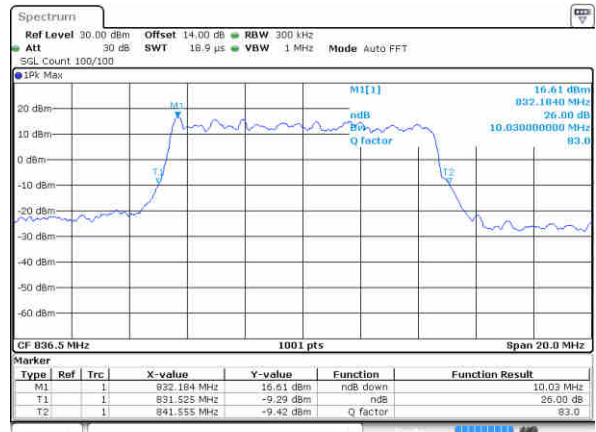
Date: 5 JAN 2018 19:00:12

Middle Channel / 10MHz / QPSK



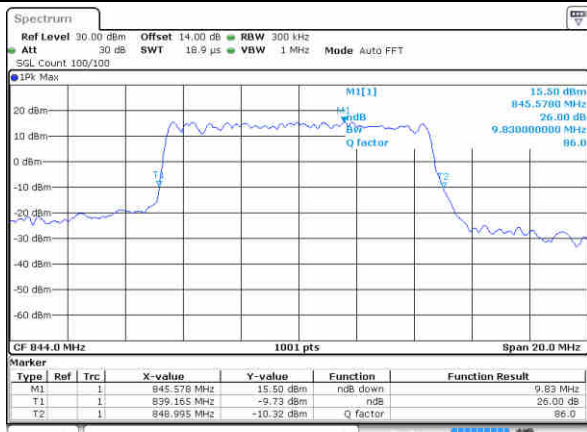
Date: 5 JAN 2018 19:10:03

Middle Channel / 10MHz / 16QAM



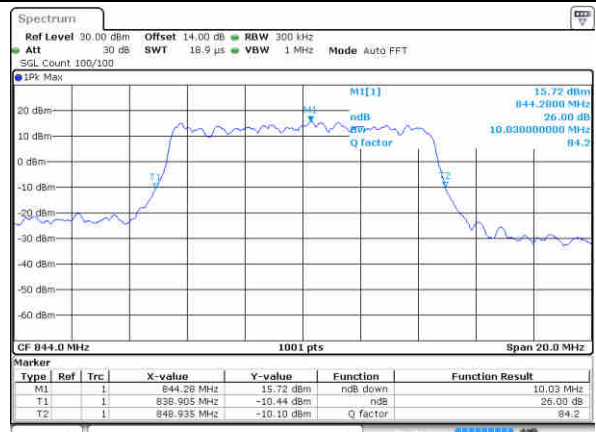
Date: 5 JAN 2018 19:10:13

Highest Channel / 10MHz / QPSK



Date: 5 JAN 2018 19:12:29

Highest Channel / 10MHz / 16QAM

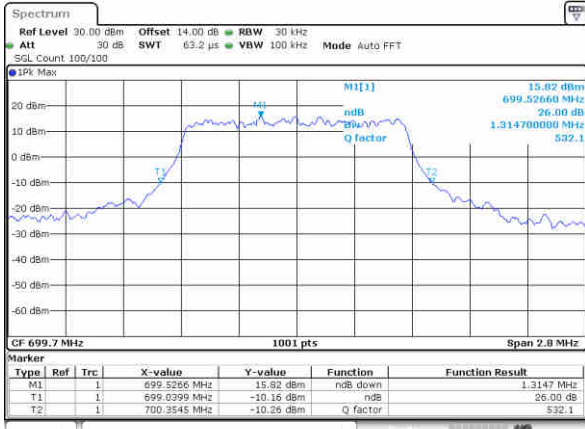


Date: 5 JAN 2018 19:12:39



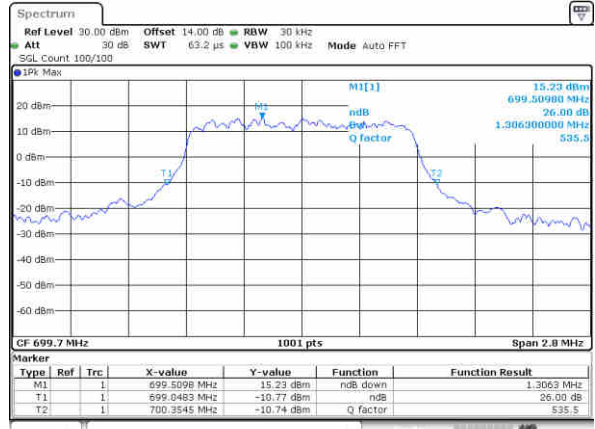
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



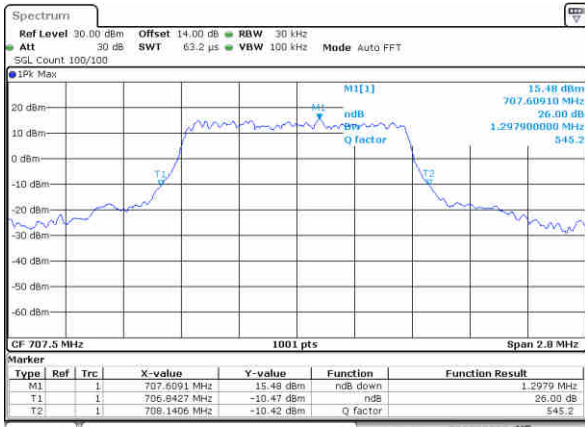
Date: 6, JAN, 2018 09:18:47

Lowest Channel / 1.4MHz / 16QAM



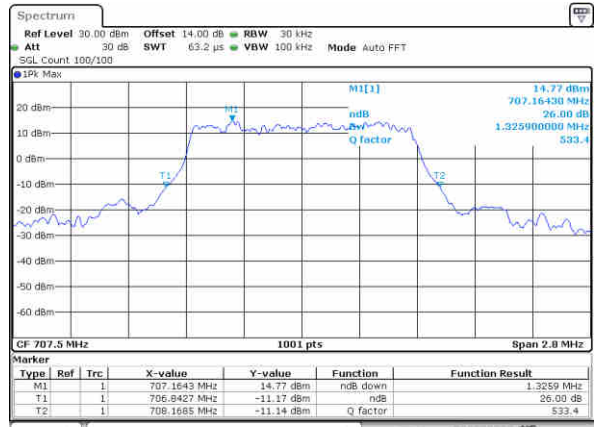
Date: 6, JAN, 2018 03:13:54

Middle Channel / 1.4MHz / QPSK



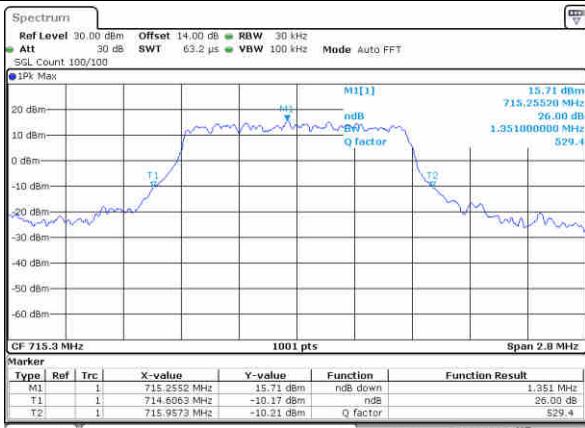
Date: 6, JAN, 2018 09:46:57

Middle Channel / 1.4MHz / 16QAM



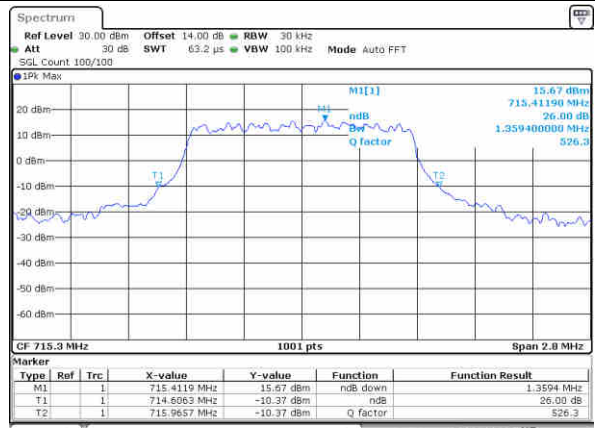
Date: 6, JAN, 2018 09:47:07

Highest Channel / 1.4MHz / QPSK



Date: 6, JAN, 2018 09:49:29

Highest Channel / 1.4MHz / 16QAM

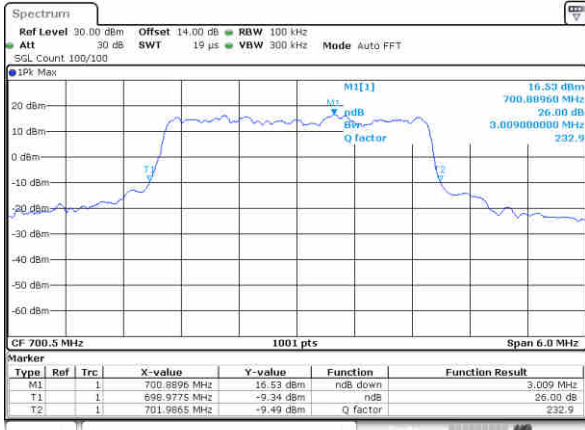


Date: 6, JAN, 2018 09:50:12



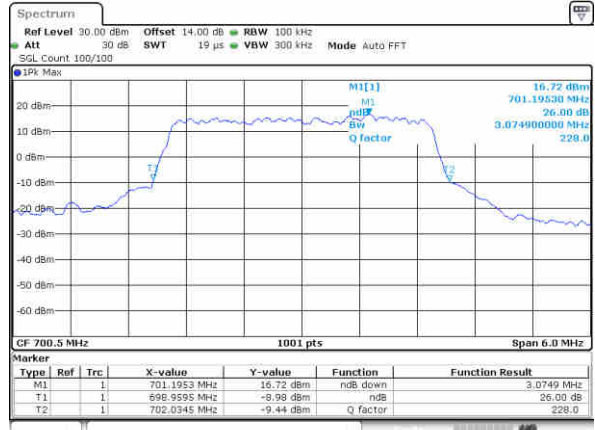
LTE Band 12

Lowest Channel / 3MHz / QPSK



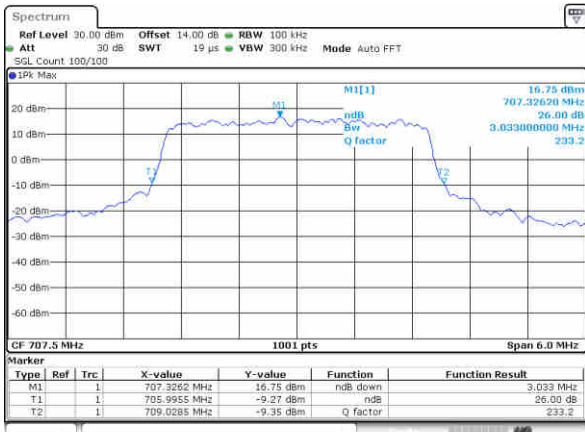
Date: 6,7AN,2018 00:59:27

Lowest Channel / 3MHz / 16QAM



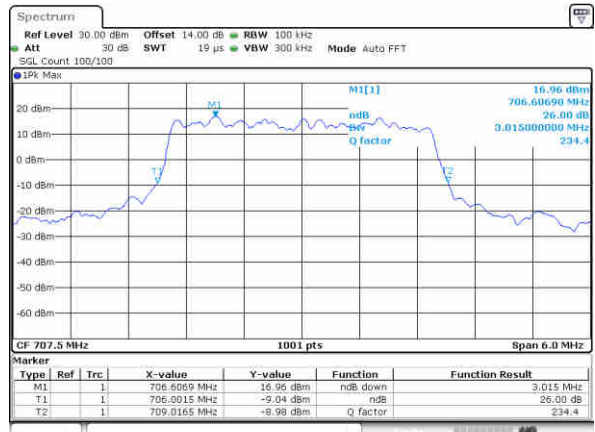
Date: 6,7AN,2018 01:00:03

Middle Channel / 3MHz / QPSK



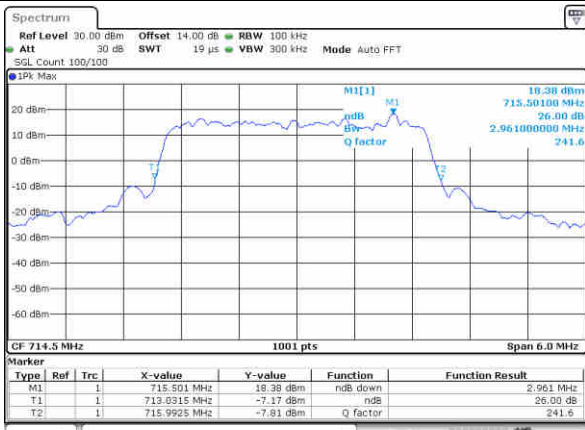
Date: 6,7AN,2018 01:00:40

Middle Channel / 3MHz / 16QAM



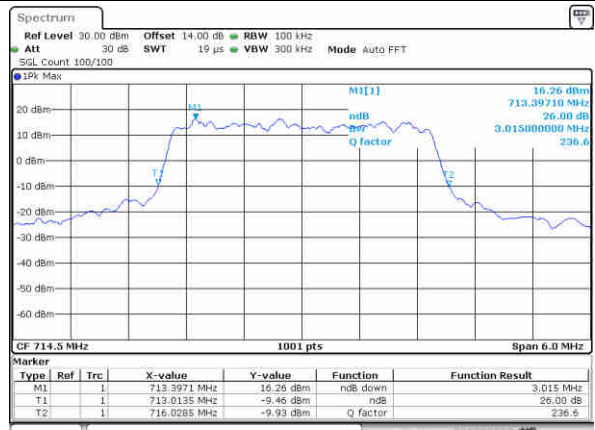
Date: 6,7AN,2018 01:00:56

Highest Channel / 3MHz / QPSK



Date: 6,7AN,2018 01:11:12

Highest Channel / 3MHz / 16QAM

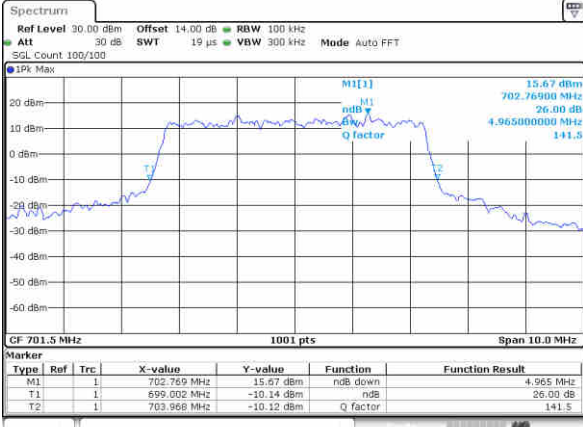


Date: 6,7AN,2018 01:11:40



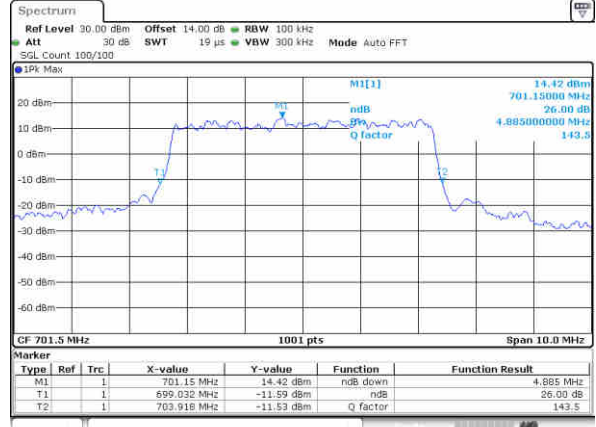
LTE Band 12

Lowest Channel / 5MHz / QPSK



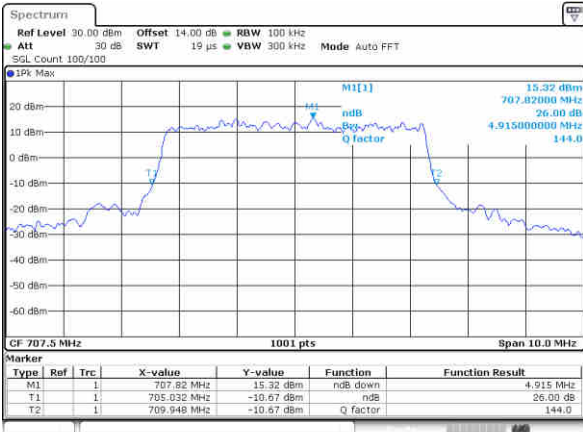
Date: 6, JAN, 2018 01:29:26

Lowest Channel / 5MHz / 16QAM



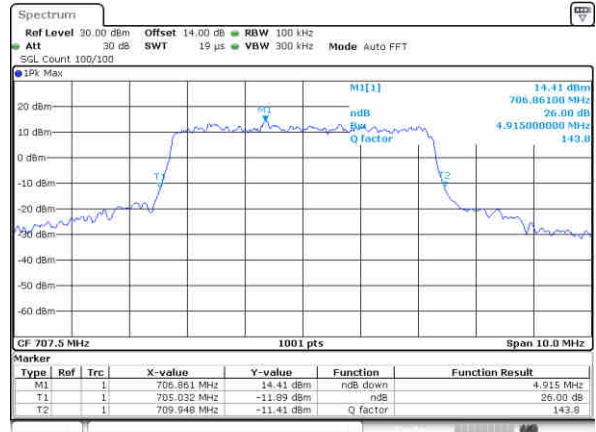
Date: 6, JAN, 2018 01:29:36

Middle Channel / 5MHz / QPSK



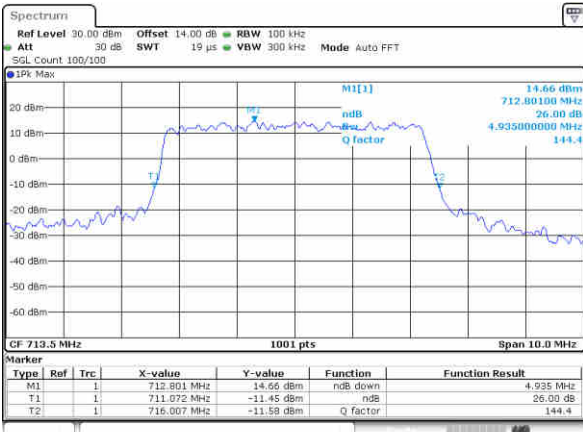
Date: 6, JAN, 2018 01:42:01

Middle Channel / 5MHz / 16QAM



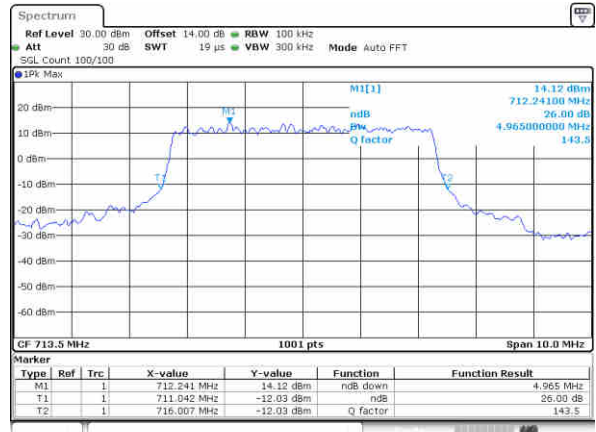
Date: 6, JAN, 2018 01:42:11

Highest Channel / 5MHz / QPSK



Date: 6, JAN, 2018 01:45:02

Highest Channel / 5MHz / 16QAM

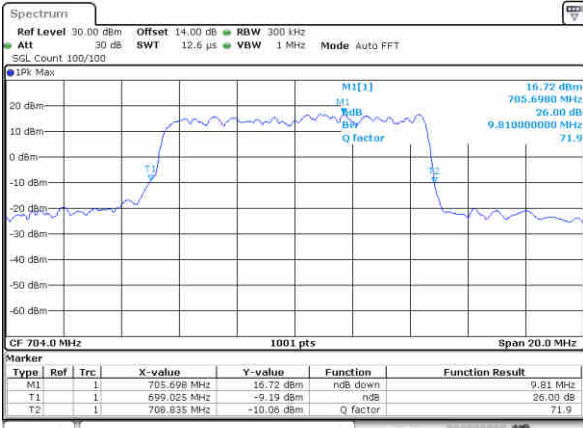


Date: 6, JAN, 2018 01:45:12



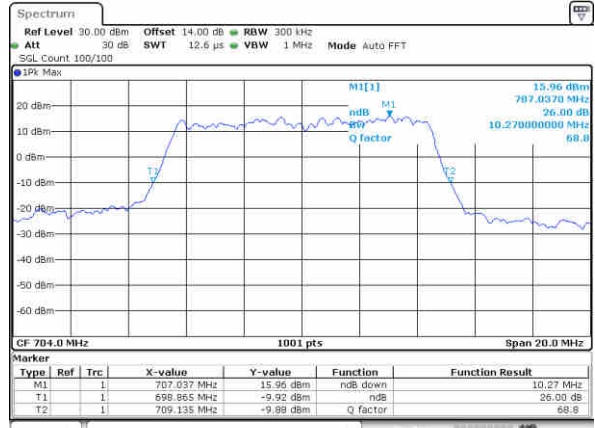
LTE Band 12

Lowest Channel / 10MHz / QPSK



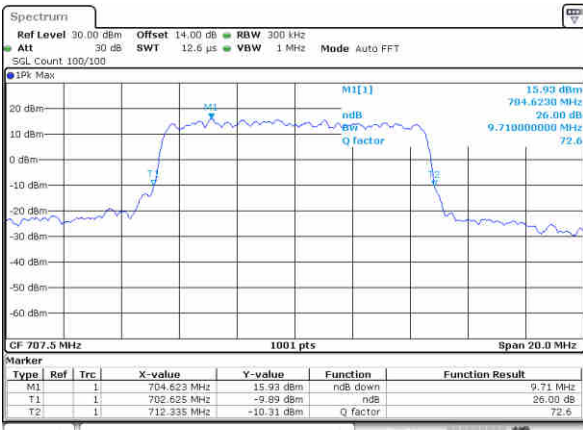
Date: 6, JAN, 2018 01:53:04

Lowest Channel / 10MHz / 16QAM



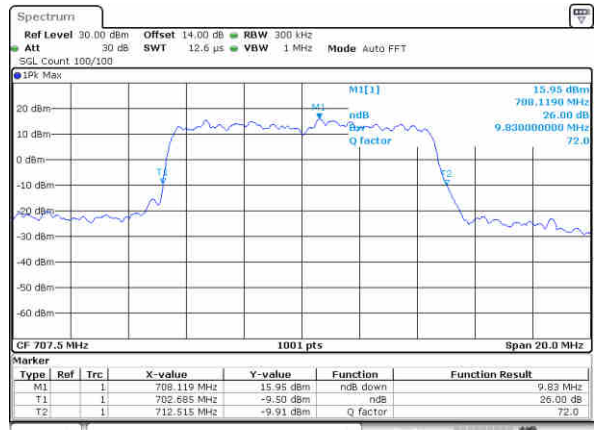
Date: 6, JAN, 2018 01:53:14

Middle Channel / 10MHz / QPSK



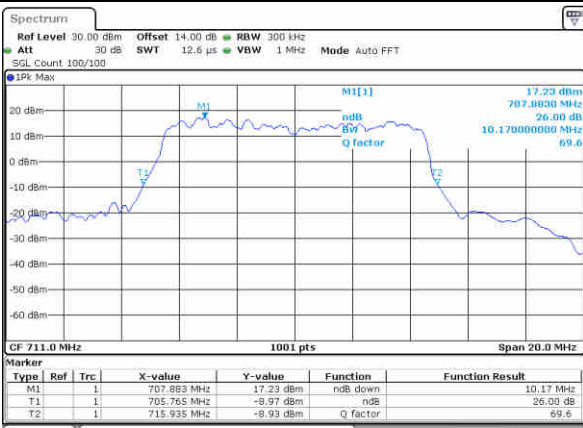
Date: 6, JAN, 2018 02:01:14

Middle Channel / 10MHz / 16QAM



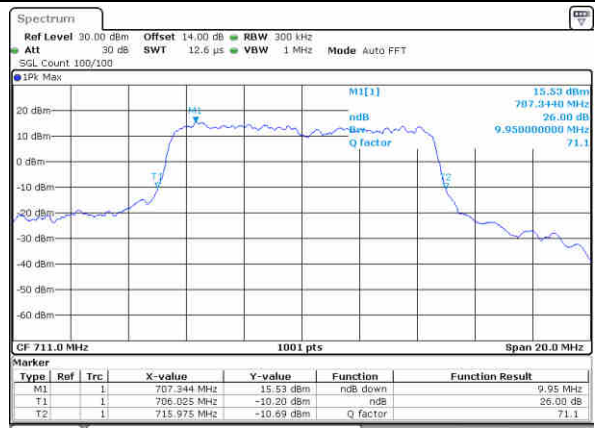
Date: 6, JAN, 2018 02:01:24

Highest Channel / 10MHz / QPSK



Date: 6, JAN, 2018 02:04:49

Highest Channel / 10MHz / 16QAM

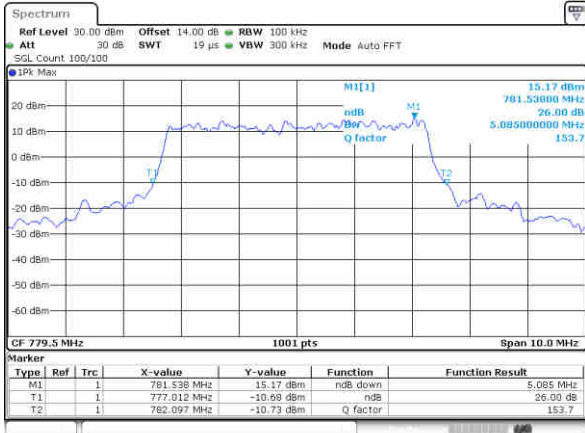


Date: 6, JAN, 2018 02:04:24



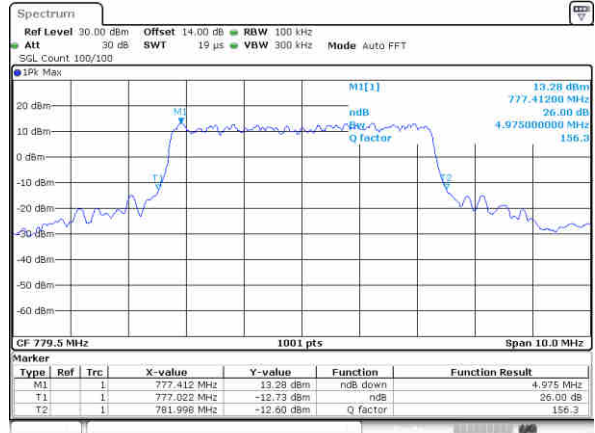
LTE Band 13

Lowest Channel / 5MHz / QPSK



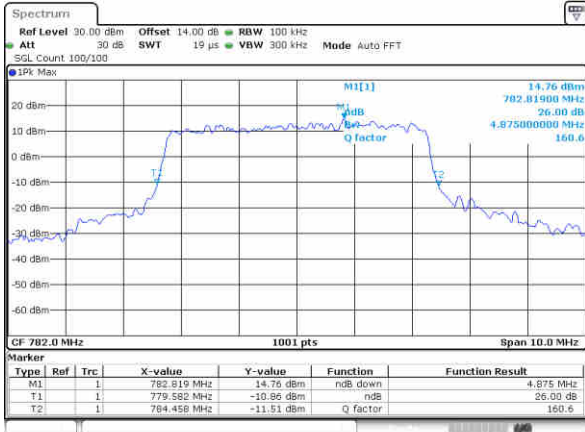
Date: 6, JAN, 2018 11:42:47

Lowest Channel / 5MHz / 16QAM



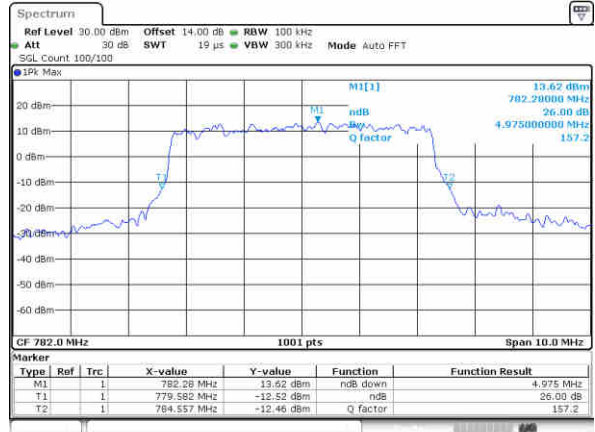
Date: 6, JAN, 2018 11:42:57

Middle Channel / 5MHz / QPSK



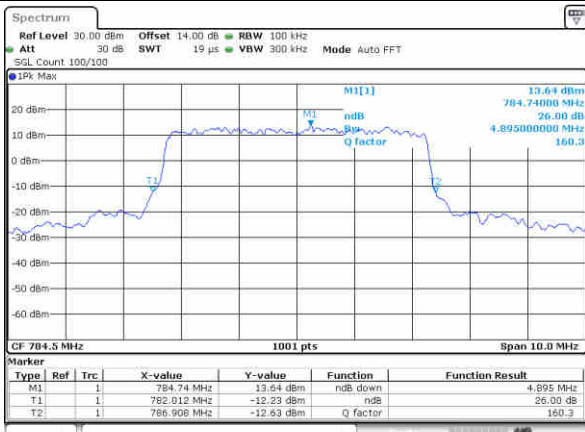
Date: 6, JAN, 2018 11:51:57

Middle Channel / 5MHz / 16QAM



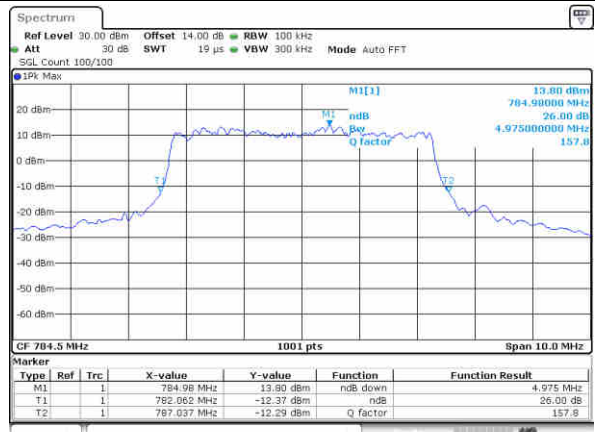
Date: 6, JAN, 2018 11:52:07

Highest Channel / 5MHz / QPSK



Date: 6, JAN, 2018 11:54:20

Highest Channel / 5MHz / 16QAM



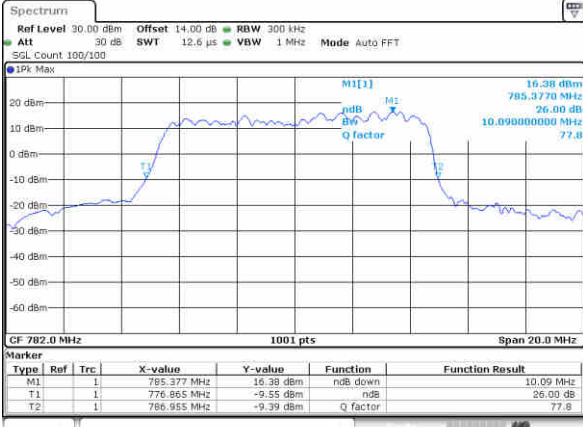
Date: 6, JAN, 2018 11:54:30



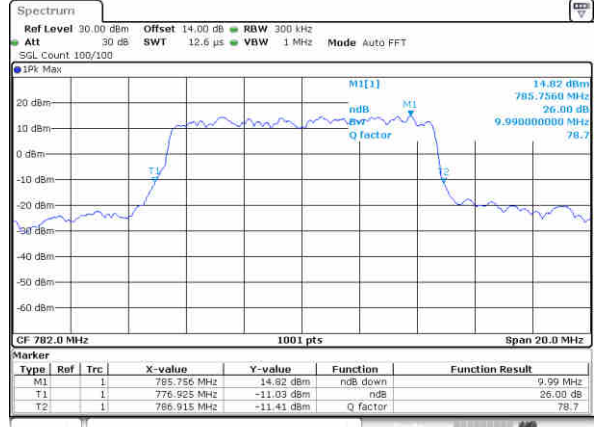
LTE Band 13

Middle Channel / 10MHz / QPSK

Middle Channel / 10MHz / 16QAM



Date: 6_JAN_2018 12:02:17



Date: 6_JAN_2018 12:02:47



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 | 1.1 | 2.72 | 2.71 | 4.49 | 4.47 | 9.07 | 9.07 | 13.43 | 13.49 | 18.42 | 18.46 |
| Middle CH | 1.1 | 1.09 | 2.75 | 2.72 | 4.49 | 4.5 | 9.01 | 9.05 | 13.46 | 13.43 | 18.38 | 18.42 |
| Highest CH | 1.1 | 1.11 | 2.7 | 2.72 | 4.51 | 4.5 | 9.11 | 8.99 | 13.43 | 13.46 | 18.34 | 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 | 1.1 | 1.09 | 2.72 | 2.72 | 4.48 | 4.5 | 9.03 | 9.01 | 13.58 | 13.49 | 18.34 | 18.26 |
| Middle CH | 1.1 | 1.1 | 2.71 | 2.72 | 4.5 | 4.5 | 9.01 | 9.01 | 13.46 | 13.46 | 18.34 | 18.34 |
| Highest CH | 1.1 | 1.1 | 2.72 | 2.73 | 4.47 | 4.5 | 9.05 | 9.01 | 13.4 | 13.52 | 18.18 | 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 | 4.5 | 4.49 | 9.01 | 9.05 | - | - | - | - |
| Middle CH | 1.11 | 1.09 | 2.75 | 2.73 | 4.48 | 4.51 | 9.09 | 9.05 | - | - | - | - |
| Highest CH | 1.1 | 1.09 | 2.74 | 2.72 | 4.47 | 4.47 | 9.03 | 9.03 | - | - | - | - |

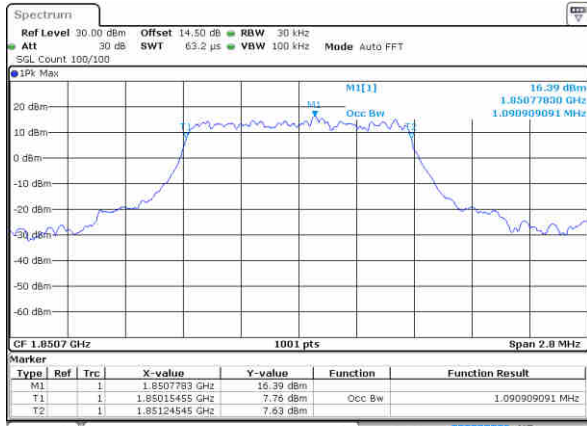
| Mode | LTE Band 12 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.1 | 1.09 | 2.72 | 2.72 | 4.49 | 4.51 | 9.03 | 8.95 | - | - | - | - |
| Middle CH | 1.1 | 1.1 | 2.74 | 2.7 | 4.48 | 4.49 | 9.03 | 9.01 | - | - | - | - |
| Highest CH | 1.1 | 1.12 | 2.73 | 2.7 | 4.49 | 4.5 | 9.07 | 9.03 | - | - | - | - |

| Mode | LTE Band 13 : 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 | - | - | - | - | 4.48 | 4.5 | - | - | - | - | - | - |
| Middle CH | - | - | - | - | 4.48 | 4.47 | 9.01 | 8.99 | - | - | - | - |
| Highest CH | - | - | - | - | 4.48 | 4.5 | - | - | - | - | - | - |



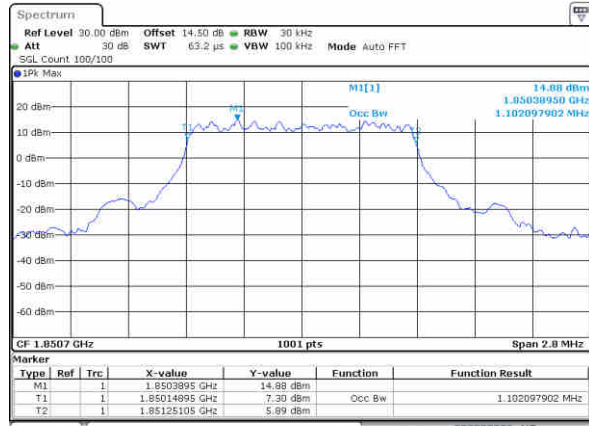
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



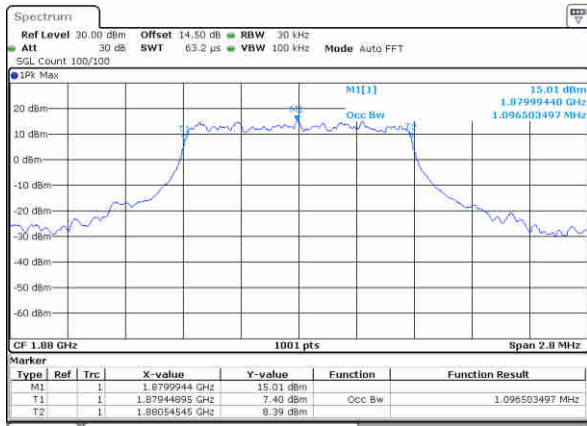
Date: 5 JAN 2018 20:32:42

Lowest Channel / 1.4MHz / 16QAM



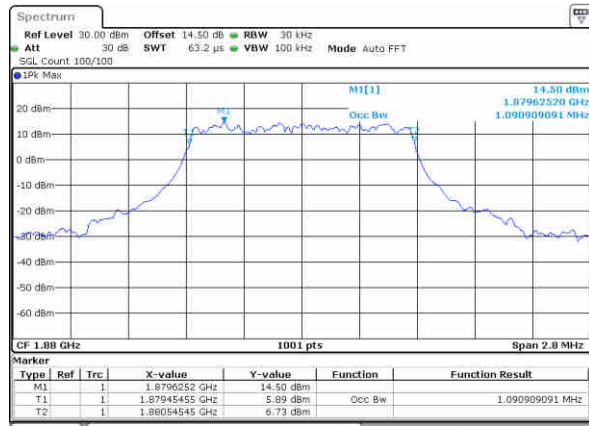
Date: 5 JAN 2018 20:32:52

Middle Channel / 1.4MHz / QPSK



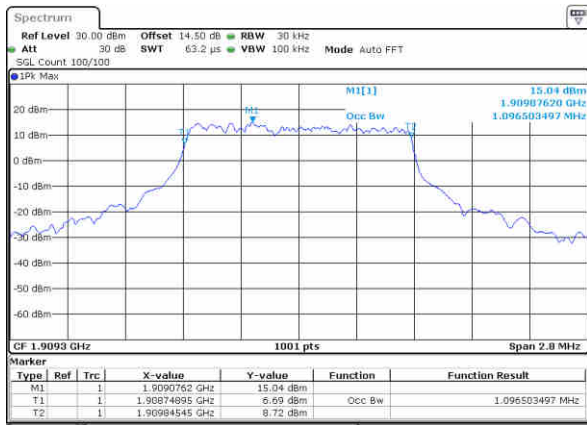
Date: 5 JAN 2018 20:39:39

Middle Channel / 1.4MHz / 16QAM



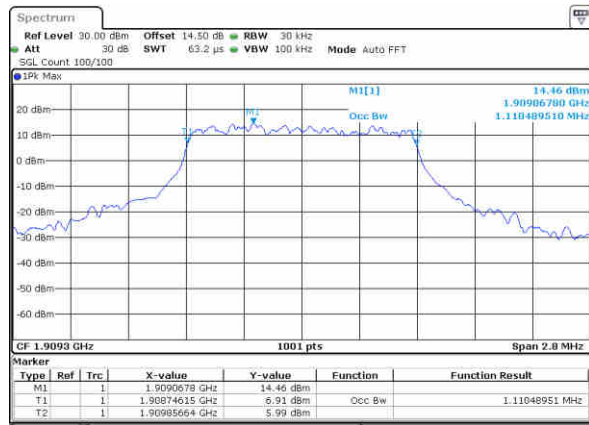
Date: 5 JAN 2018 20:39:49

Highest Channel / 1.4MHz / QPSK



Date: 5 JAN 2018 20:42:05

Highest Channel / 1.4MHz / 16QAM

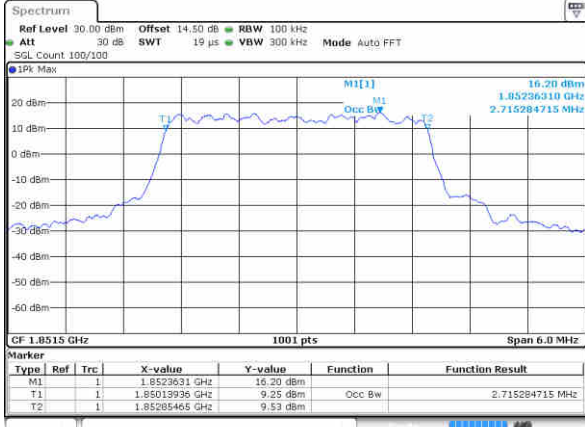


Date: 5 JAN 2018 20:42:15



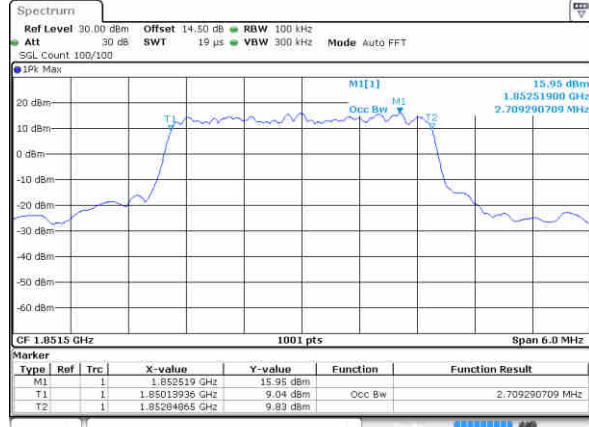
LTE Band 2

Lowest Channel / 3MHz / QPSK



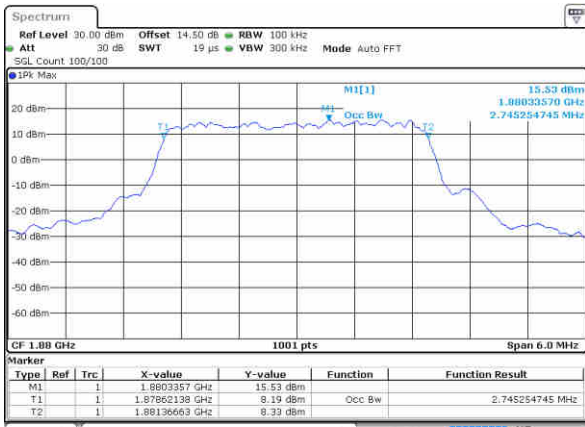
Date: 5 JAN 2018 20:49:03

Lowest Channel / 3MHz / 16QAM



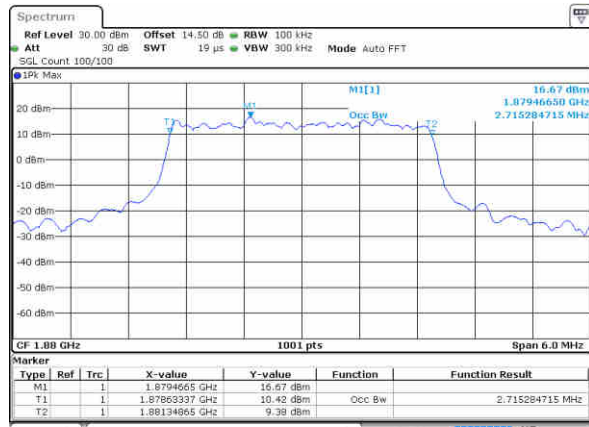
Date: 5 JAN 2018 20:49:12

Middle Channel / 3MHz / QPSK



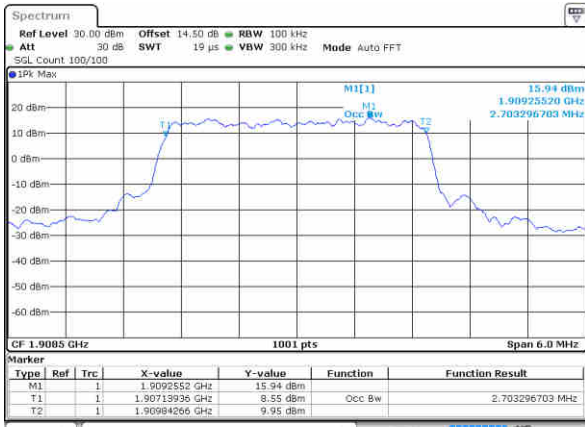
Date: 5 JAN 2018 20:56:00

Middle Channel / 3MHz / 16QAM



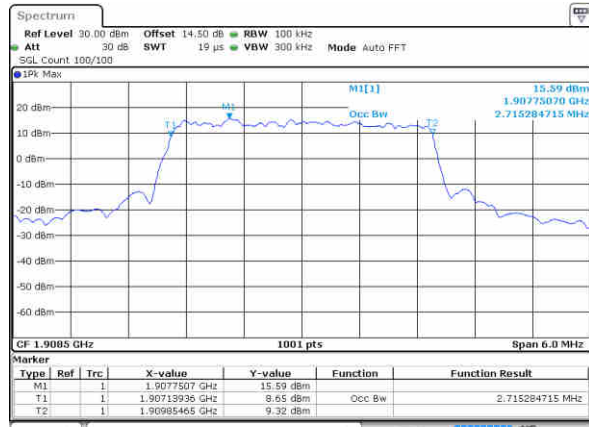
Date: 5 JAN 2018 20:56:10

Highest Channel / 3MHz / QPSK



Date: 5 JAN 2018 20:58:28

Highest Channel / 3MHz / 16QAM

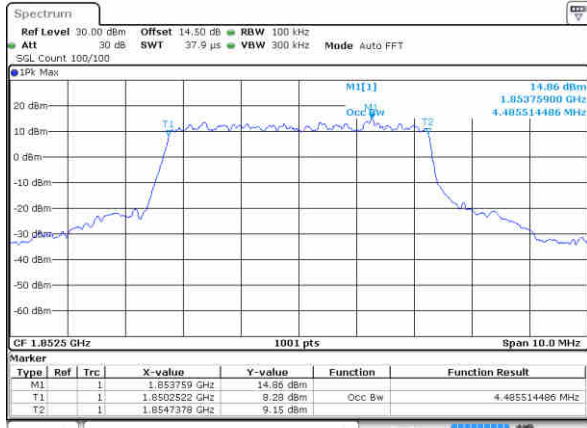


Date: 5 JAN 2018 20:58:36



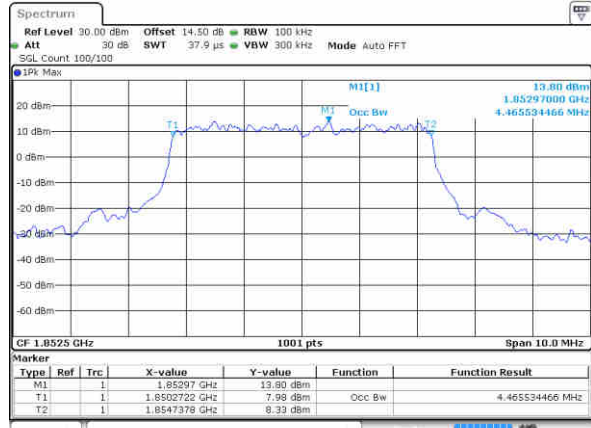
LTE Band 2

Lowest Channel / 5MHz / QPSK



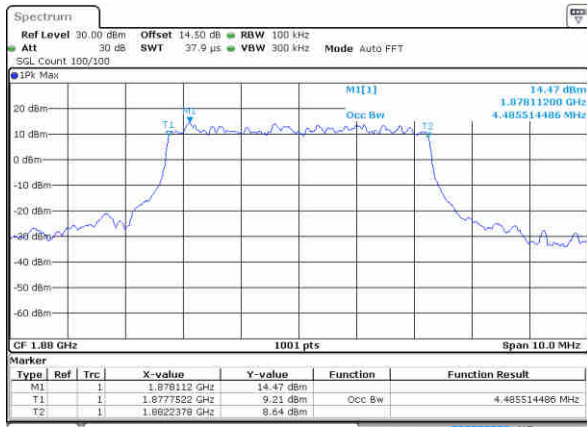
Date: 5 JAN 2018 21:05:23

Lowest Channel / 5MHz / 16QAM



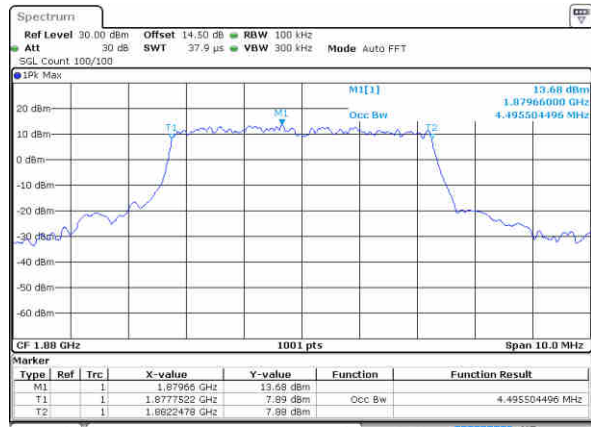
Date: 5 JAN 2018 21:05:33

Middle Channel / 5MHz / QPSK



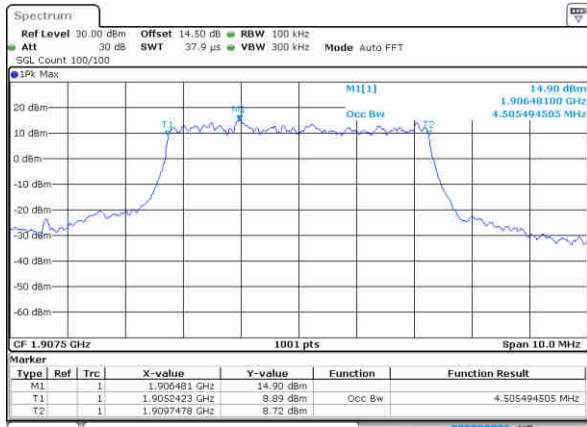
Date: 5 JAN 2018 21:12:21

Middle Channel / 5MHz / 16QAM



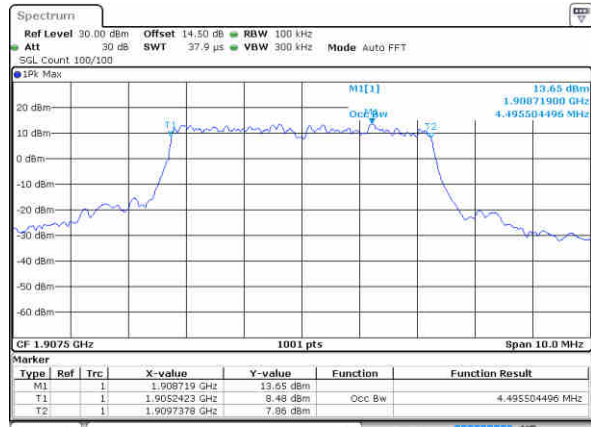
Date: 5 JAN 2018 21:12:31

Highest Channel / 5MHz / QPSK



Date: 5 JAN 2018 21:14:47

Highest Channel / 5MHz / 16QAM

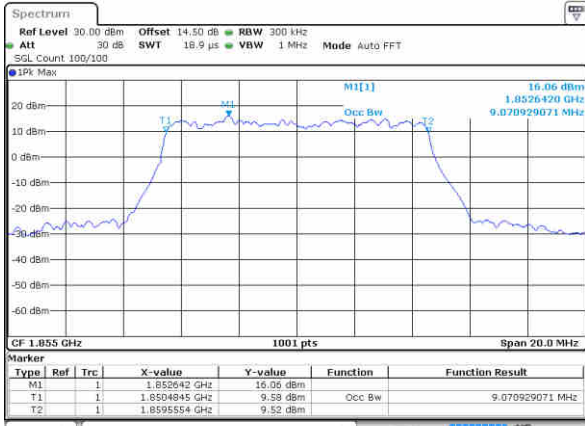


Date: 5 JAN 2018 21:14:58



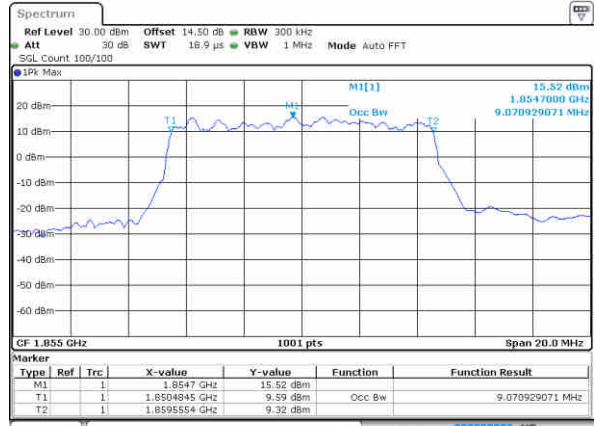
LTE Band 2

Lowest Channel / 10MHz / QPSK



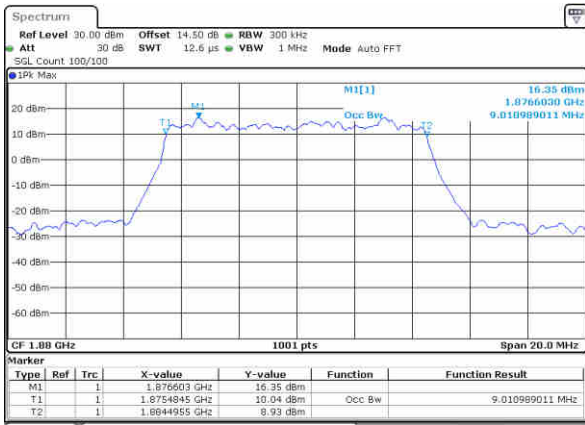
Date: 5 JAN 2018 21:21:44

Lowest Channel / 10MHz / 16QAM



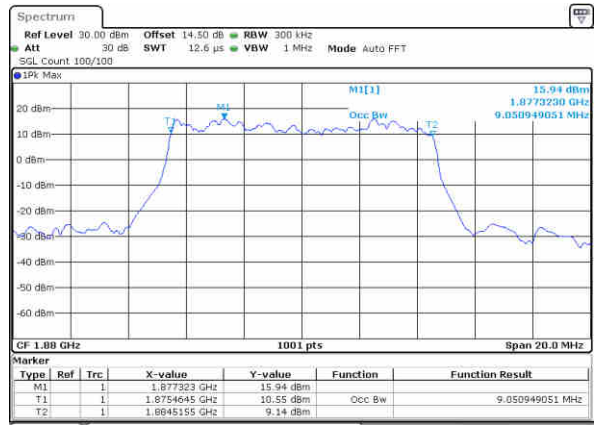
Date: 5 JAN 2018 21:21:54

Middle Channel / 10MHz / QPSK



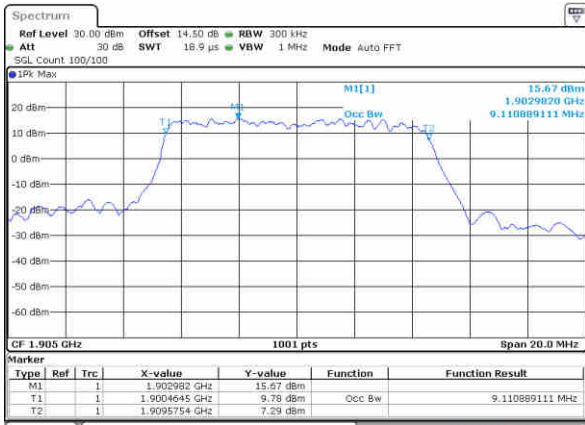
Date: 5 JAN 2018 23:27:46

Middle Channel / 10MHz / 16QAM



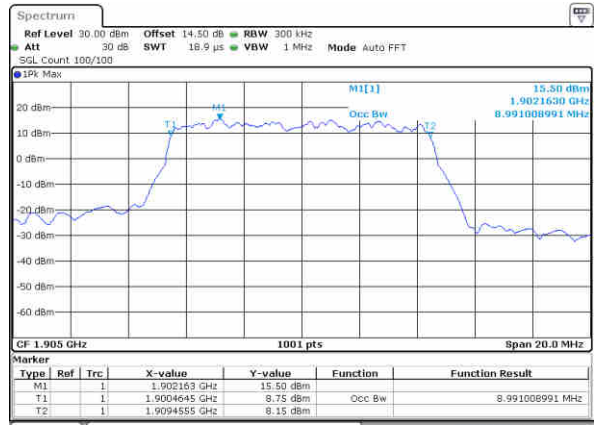
Date: 5 JAN 2018 23:27:57

Highest Channel / 10MHz / QPSK



Date: 5 JAN 2018 21:32:36

Highest Channel / 10MHz / 16QAM

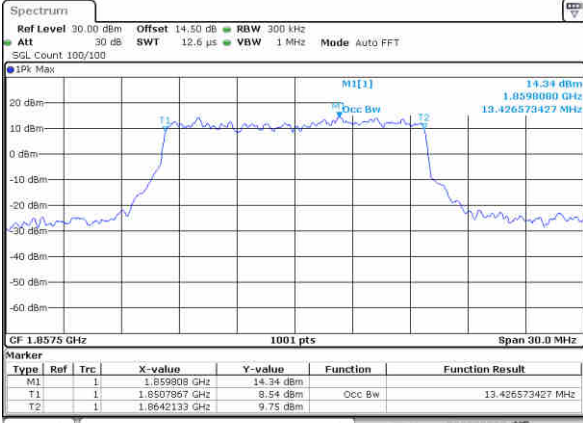


Date: 5 JAN 2018 21:32:46



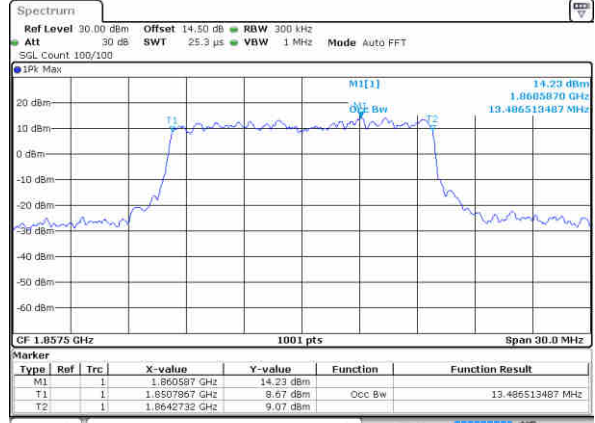
LTE Band 2

Lowest Channel / 15MHz / QPSK



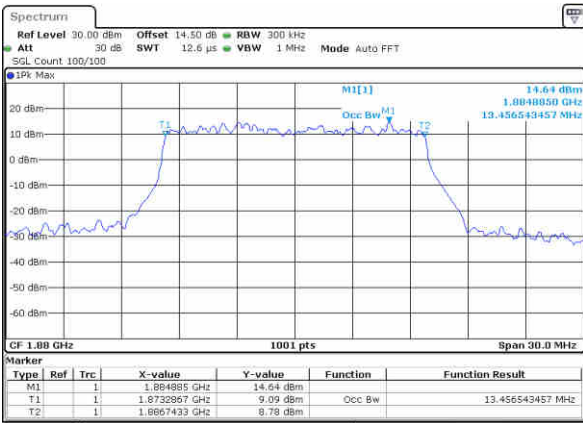
Date: 5 JAN 2018 23:10:17

Lowest Channel / 15MHz / 16QAM



Date: 5 JAN 2018 21:49:52

Middle Channel / 15MHz / QPSK



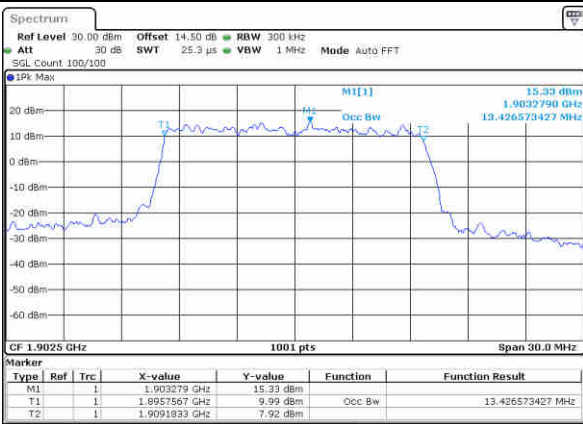
Date: 5 JAN 2018 23:11:02

Middle Channel / 15MHz / 16QAM



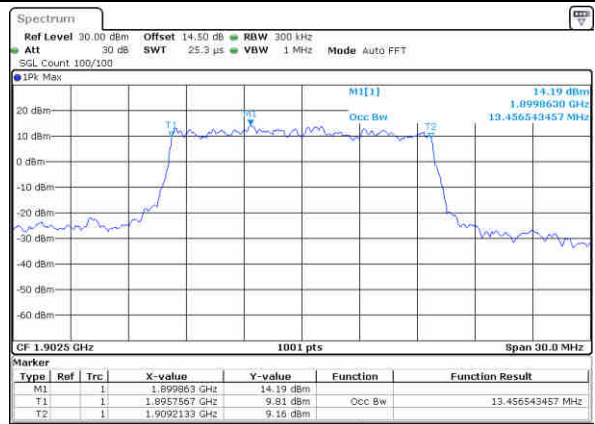
Date: 5 JAN 2018 21:57:39

Highest Channel / 15MHz / QPSK



Date: 5 JAN 2018 21:59:55

Highest Channel / 15MHz / 16QAM

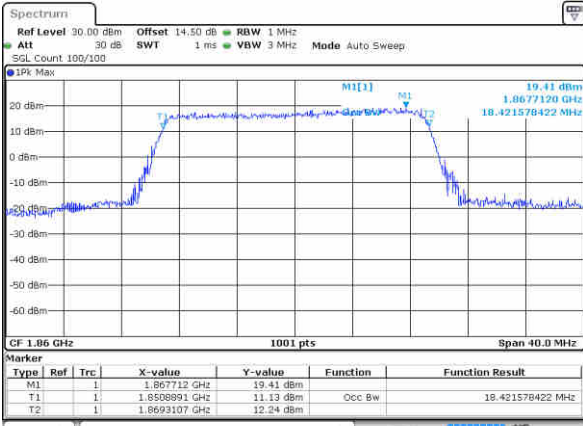


Date: 5 JAN 2018 22:00:05



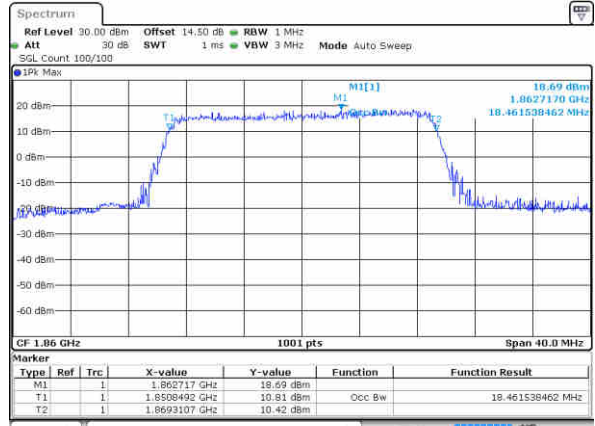
LTE Band 2

Lowest Channel / 20MHz / QPSK



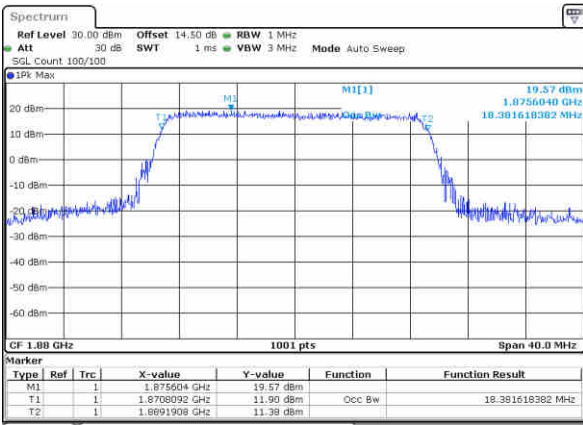
Date: 5 JAN 2018 22:09:20

Lowest Channel / 20MHz / 16QAM



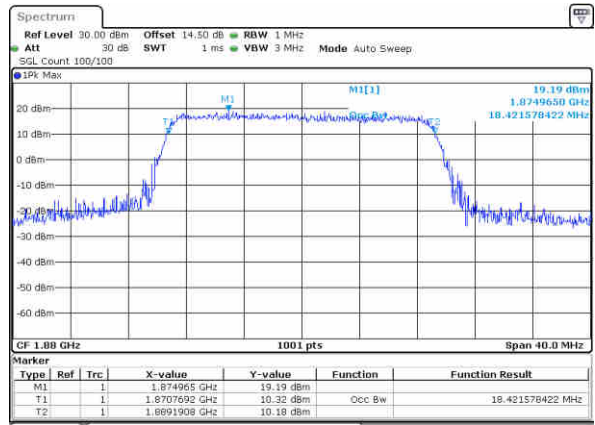
Date: 5 JAN 2018 22:09:30

Middle Channel / 20MHz / QPSK



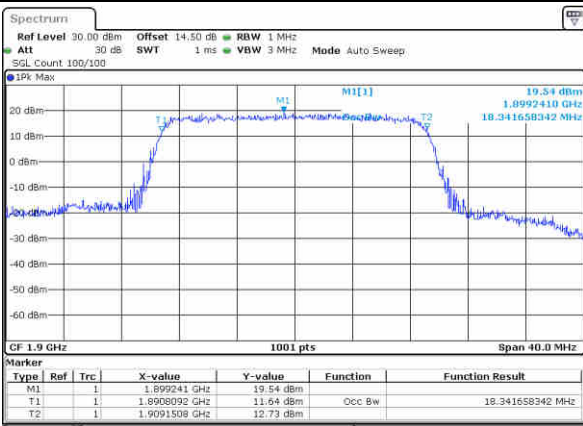
Date: 5 JAN 2018 22:17:34

Middle Channel / 20MHz / 16QAM



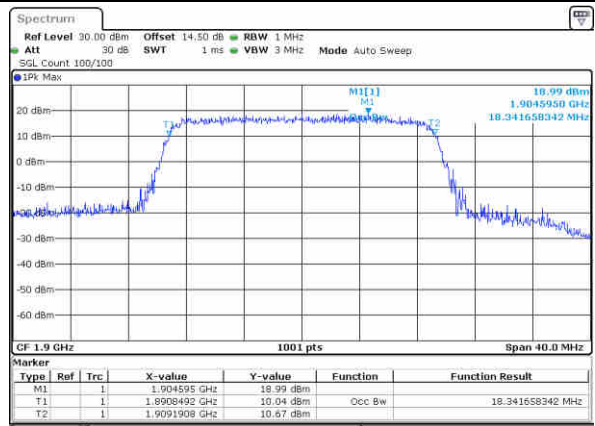
Date: 5 JAN 2018 22:17:44

Highest Channel / 20MHz / QPSK



Date: 5 JAN 2018 22:20:00

Highest Channel / 20MHz / 16QAM

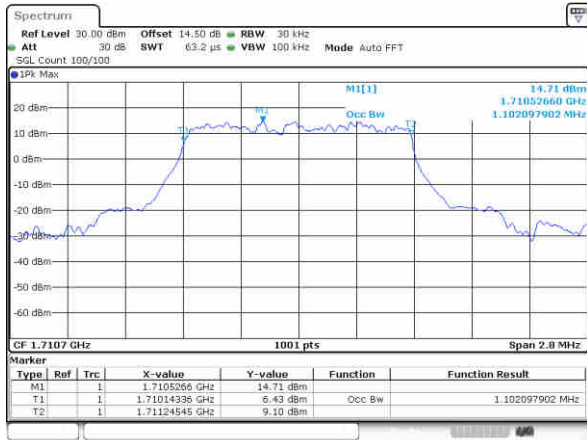


Date: 5 JAN 2018 22:20:10



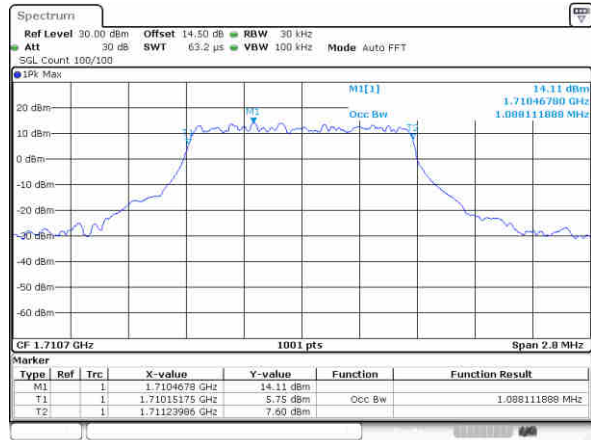
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



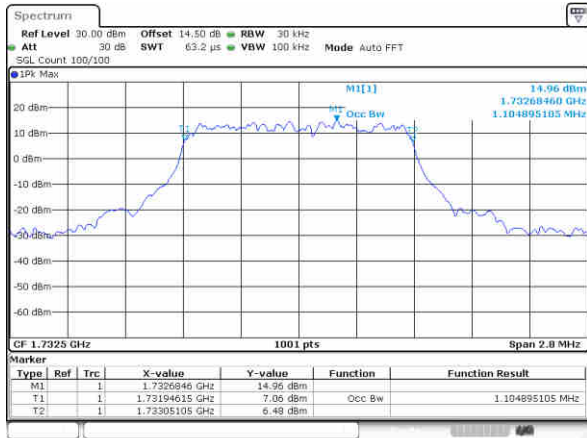
Date: 6,7AR,2018 09:47:54

Lowest Channel / 1.4MHz / 16QAM



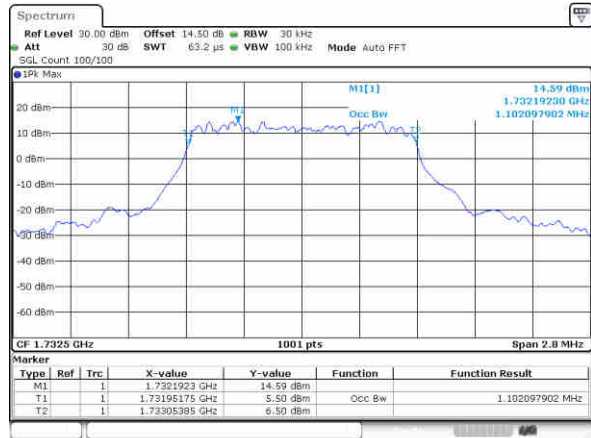
Date: 6,7AR,2018 09:48:04

Middle Channel / 1.4MHz / QPSK



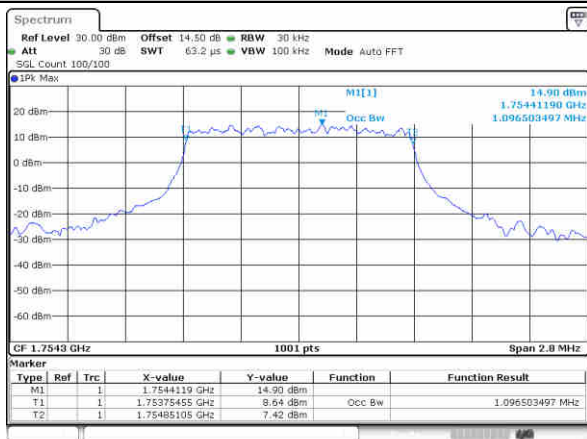
Date: 6,7AR,2018 09:55:05

Middle Channel / 1.4MHz / 16QAM



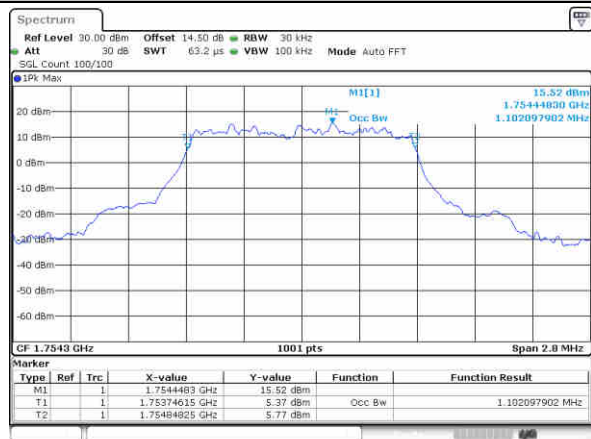
Date: 6,7AR,2018 09:55:15

Highest Channel / 1.4MHz / QPSK



Date: 6,7AR,2018 09:57:37

Highest Channel / 1.4MHz / 16QAM

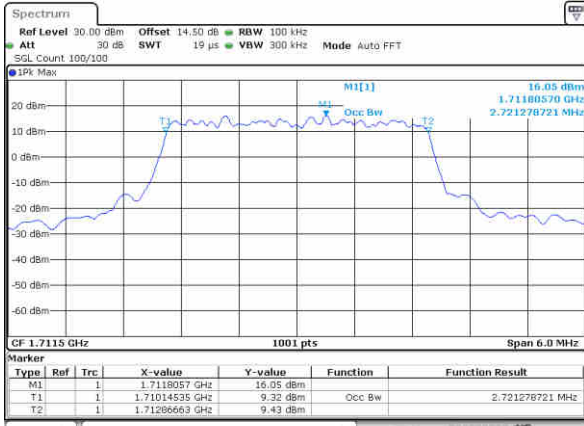


Date: 6,7AR,2018 09:57:47



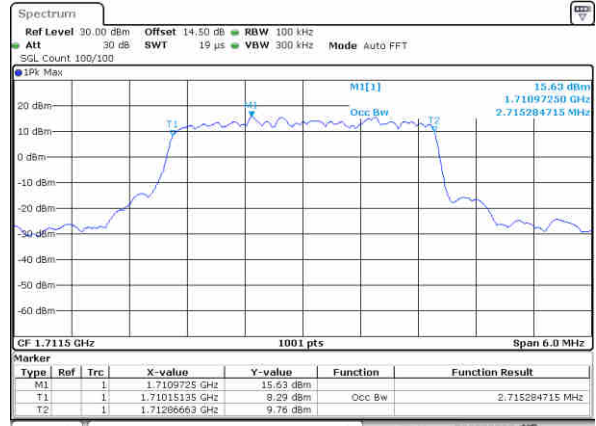
LTE Band 4

Lowest Channel / 3MHz / QPSK



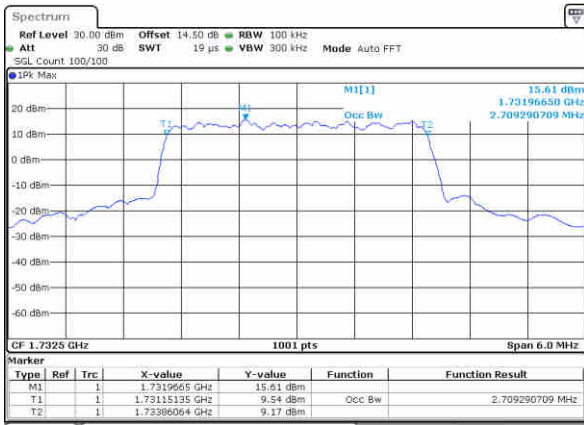
Date: 6, JAN, 2018 10:04:47

Lowest Channel / 3MHz / 16QAM



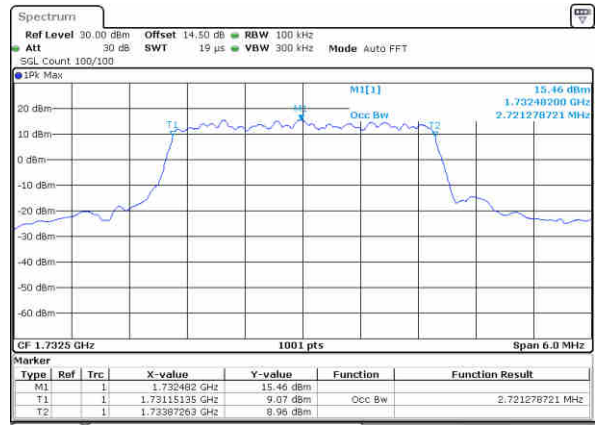
Date: 6, JAN, 2018 10:04:58

Middle Channel / 3MHz / QPSK



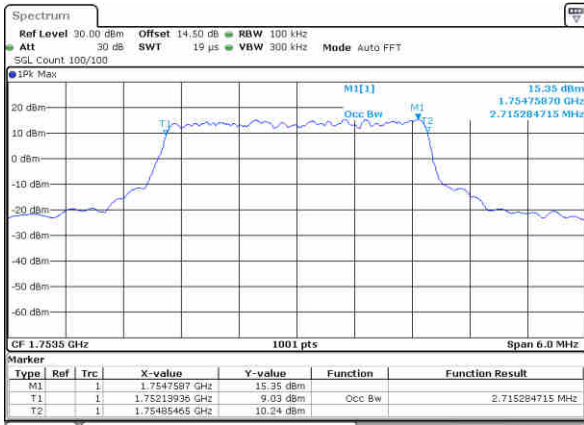
Date: 6, JAN, 2018 10:11:51

Middle Channel / 3MHz / 16QAM



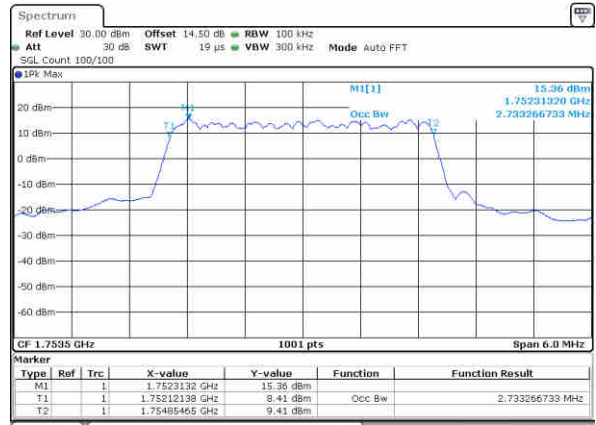
Date: 6, JAN, 2018 10:12:06

Highest Channel / 3MHz / QPSK



Date: 6, JAN, 2018 10:14:30

Highest Channel / 3MHz / 16QAM

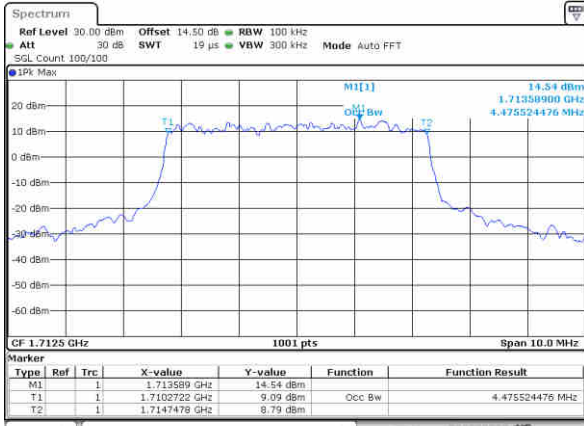


Date: 6, JAN, 2018 10:14:40



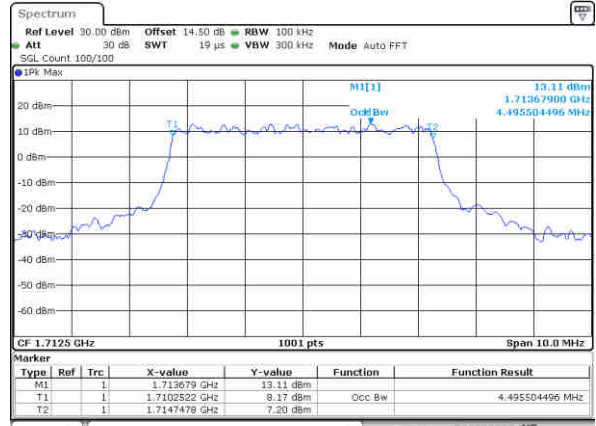
LTE Band 4

Lowest Channel / 5MHz / QPSK



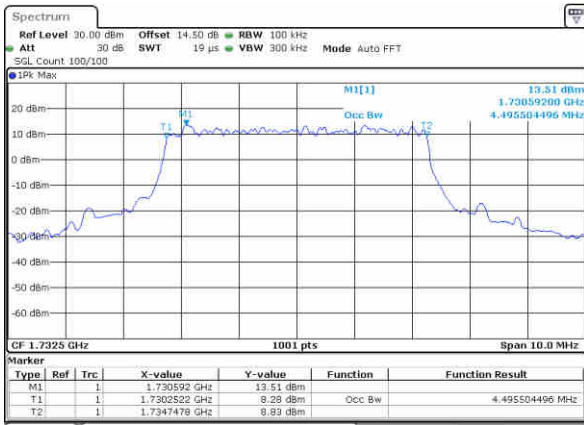
Date: 6, JAN, 2018 10:21:40

Lowest Channel / 5MHz / 16QAM



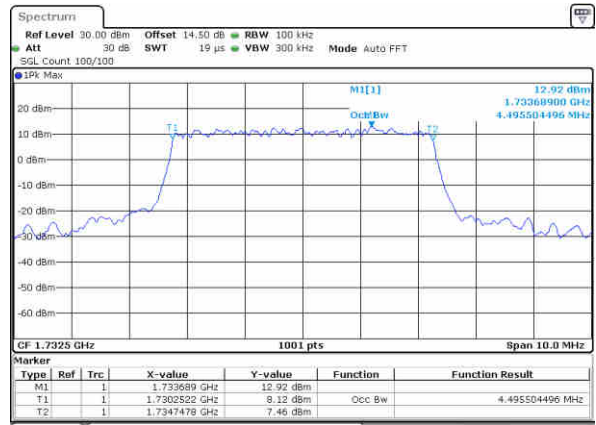
Date: 6, JAN, 2018 10:21:50

Middle Channel / 5MHz / QPSK



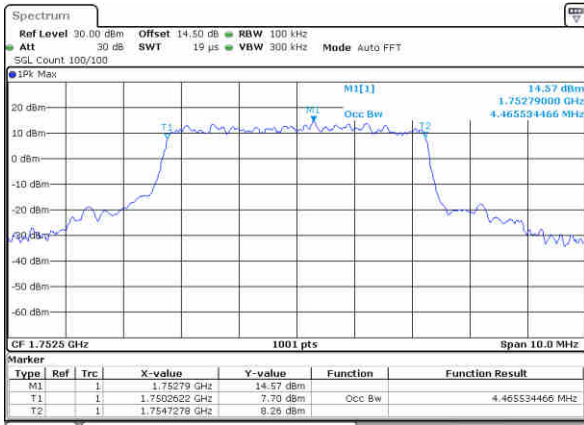
Date: 6, JAN, 2018 10:28:40

Middle Channel / 5MHz / 16QAM



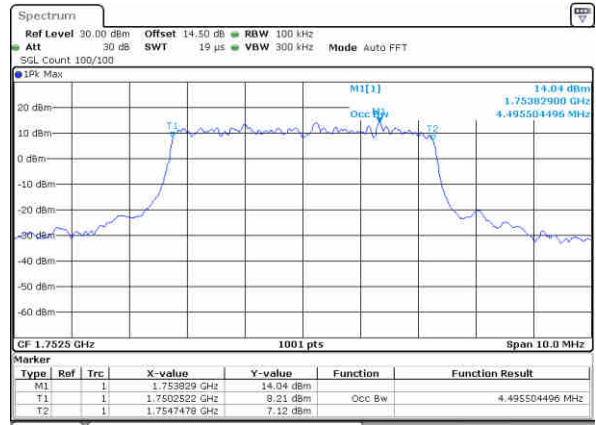
Date: 6, JAN, 2018 10:28:50

Highest Channel / 5MHz / QPSK



Date: 6, JAN, 2018 10:31:22

Highest Channel / 5MHz / 16QAM

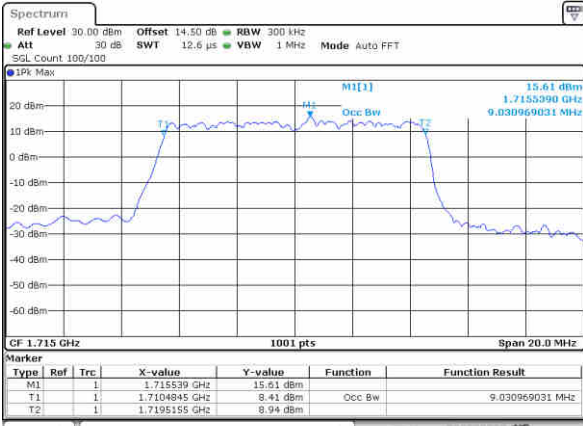


Date: 6, JAN, 2018 10:31:32



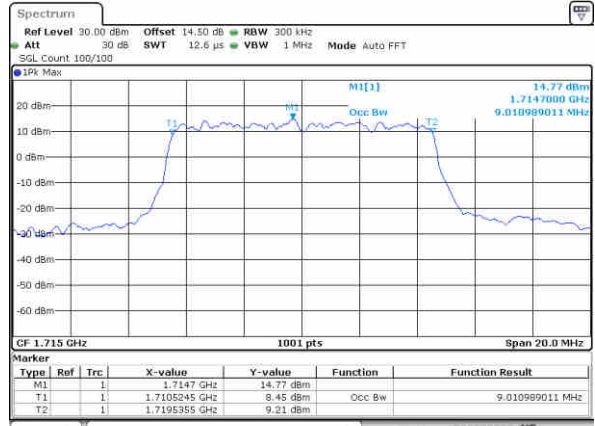
LTE Band 4

Lowest Channel / 10MHz / QPSK



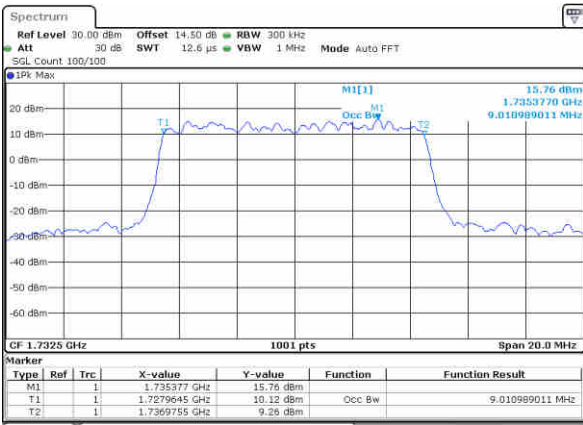
Date: 6, JAN, 2018 10:38:43

Lowest Channel / 10MHz / 16QAM



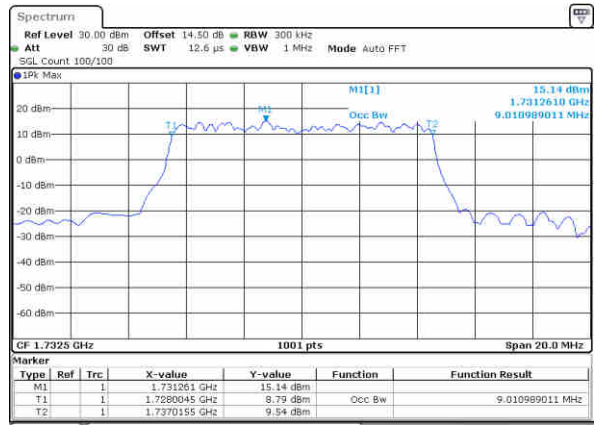
Date: 6, JAN, 2018 10:38:42

Middle Channel / 10MHz / QPSK



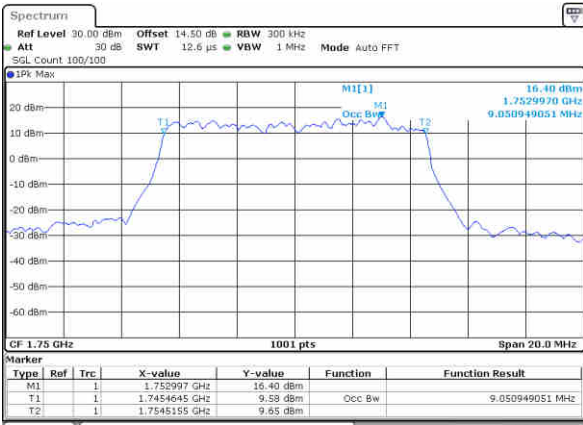
Date: 6, JAN, 2018 10:45:40

Middle Channel / 10MHz / 16QAM



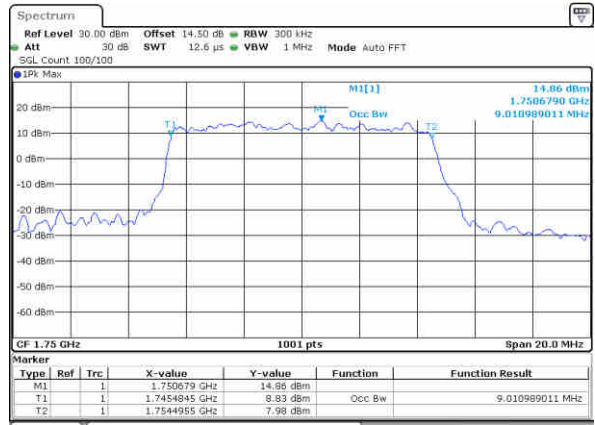
Date: 6, JAN, 2018 10:45:56

Highest Channel / 10MHz / QPSK



Date: 6, JAN, 2018 10:48:13

Highest Channel / 10MHz / 16QAM

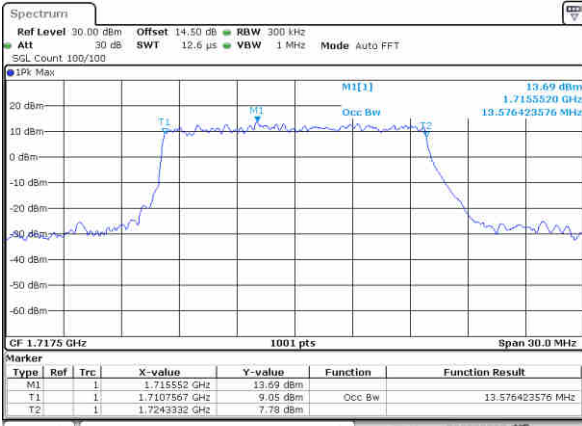


Date: 6, JAN, 2018 10:48:23



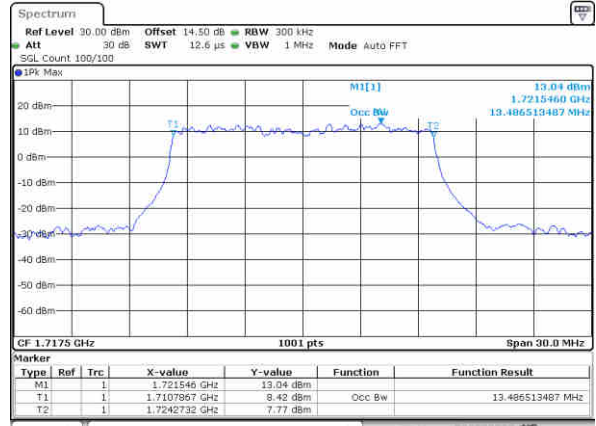
LTE Band 4

Lowest Channel / 15MHz / QPSK



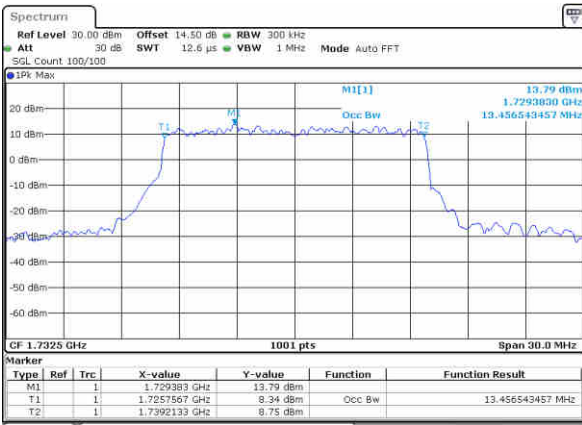
Date: 6, JAN, 2018 10:55:23

Lowest Channel / 15MHz / 16QAM



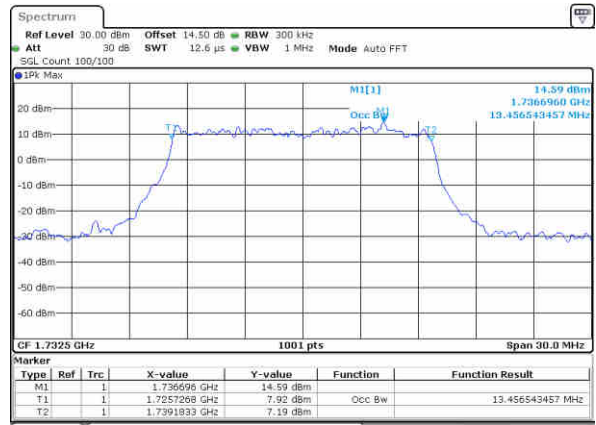
Date: 6, JAN, 2018 10:55:33

Middle Channel / 15MHz / QPSK



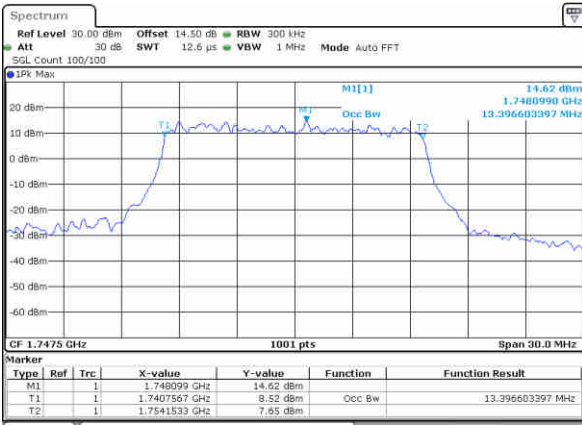
Date: 6, JAN, 2018 11:02:34

Middle Channel / 15MHz / 16QAM



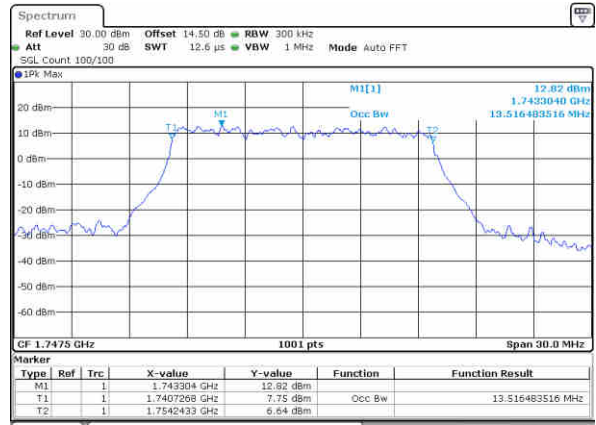
Date: 6, JAN, 2018 11:02:44

Highest Channel / 15MHz / QPSK



Date: 6, JAN, 2018 11:05:06

Highest Channel / 15MHz / 16QAM

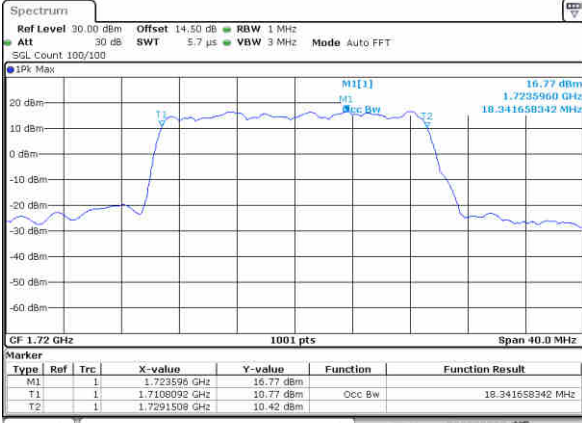


Date: 6, JAN, 2018 11:05:16



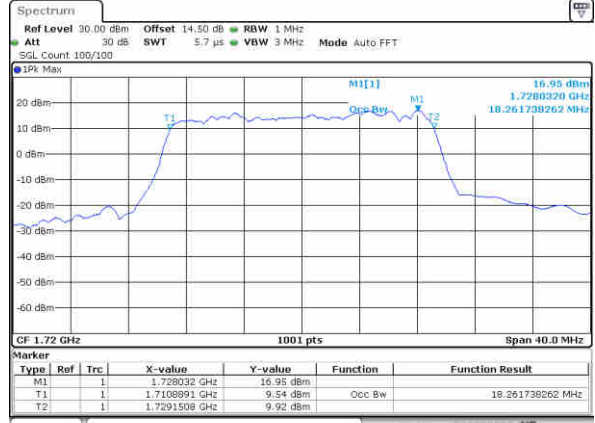
LTE Band 4

Lowest Channel / 20MHz / QPSK



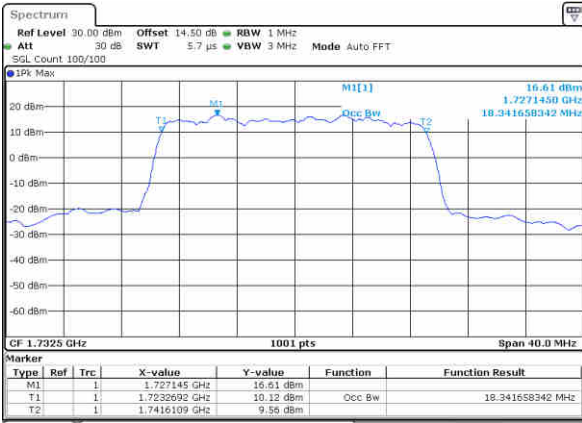
Date: 6, JAN, 2018 11:12:15

Lowest Channel / 20MHz / 16QAM



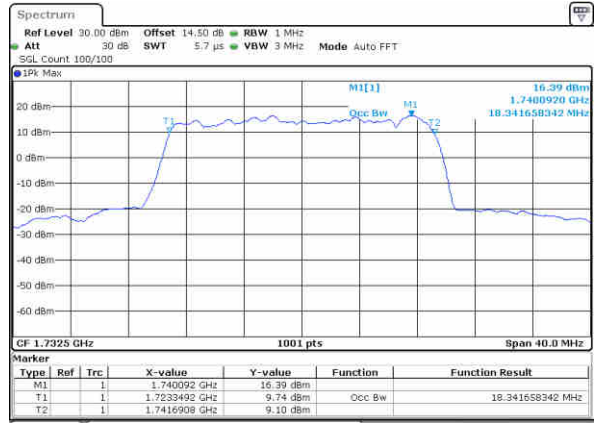
Date: 6, JAN, 2018 11:12:25

Middle Channel / 20MHz / QPSK



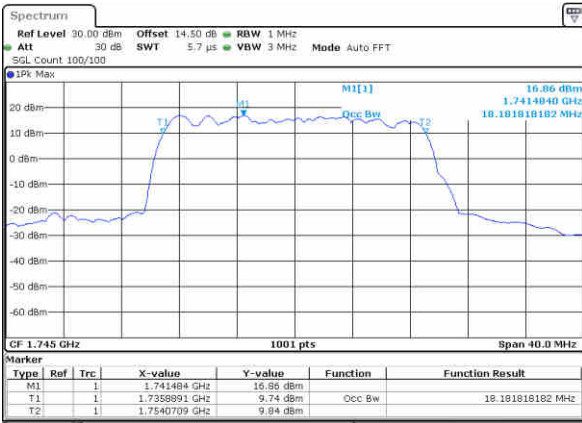
Date: 6, JAN, 2018 11:19:24

Middle Channel / 20MHz / 16QAM



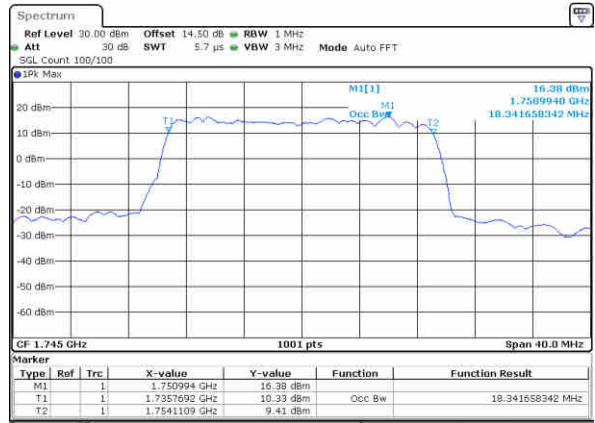
Date: 6, JAN, 2018 11:19:34

Highest Channel / 20MHz / QPSK



Date: 6, JAN, 2018 11:21:57

Highest Channel / 20MHz / 16QAM

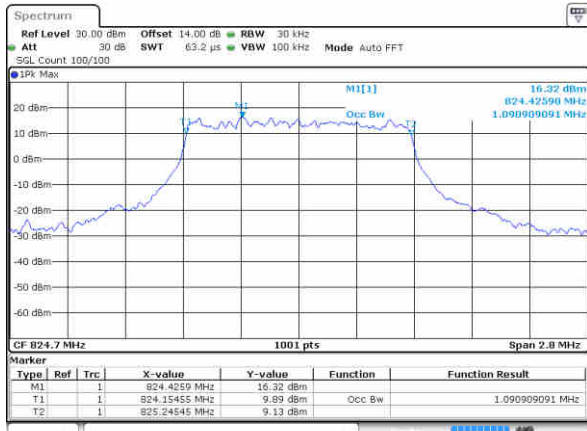


Date: 6, JAN, 2018 11:22:07



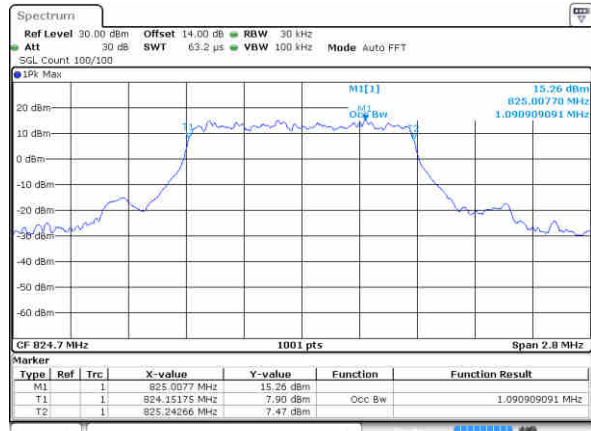
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



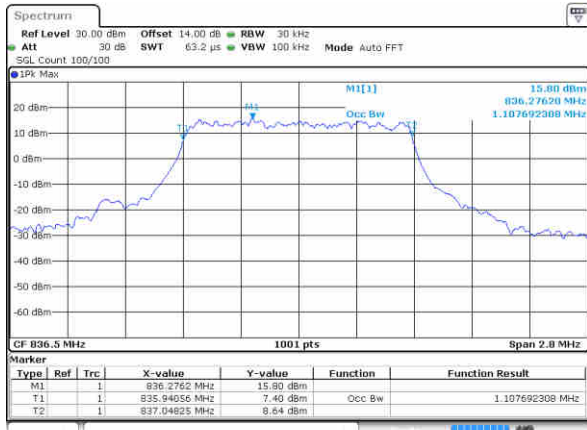
Date: 5 JAN 2018 15:38:19

Lowest Channel / 1.4MHz / 16QAM



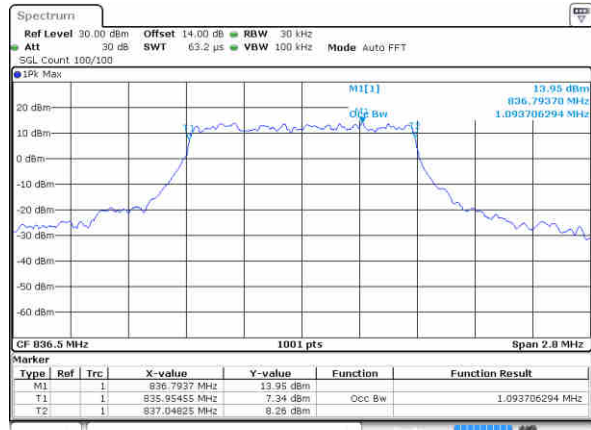
Date: 5 JAN 2018 15:38:29

Middle Channel / 1.4MHz / QPSK



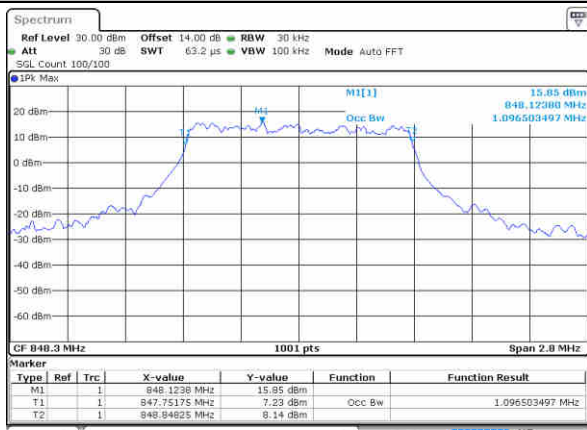
Date: 5 JAN 2018 16:50:38

Middle Channel / 1.4MHz / 16QAM



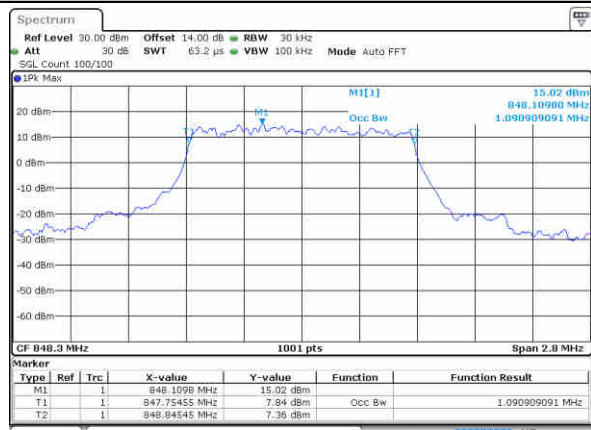
Date: 5 JAN 2018 16:50:48

Highest Channel / 1.4MHz / QPSK



Date: 5 JAN 2018 16:53:03

Highest Channel / 1.4MHz / 16QAM

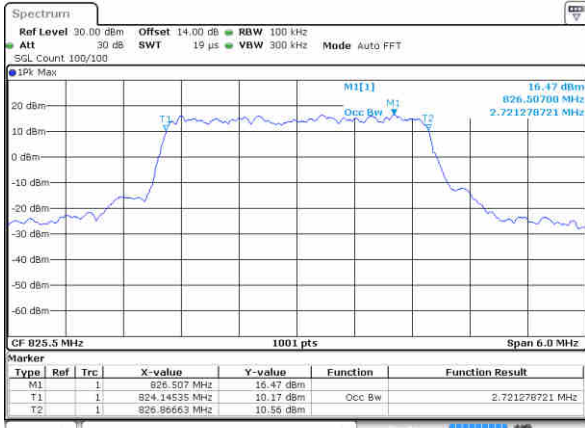


Date: 5 JAN 2018 16:53:13



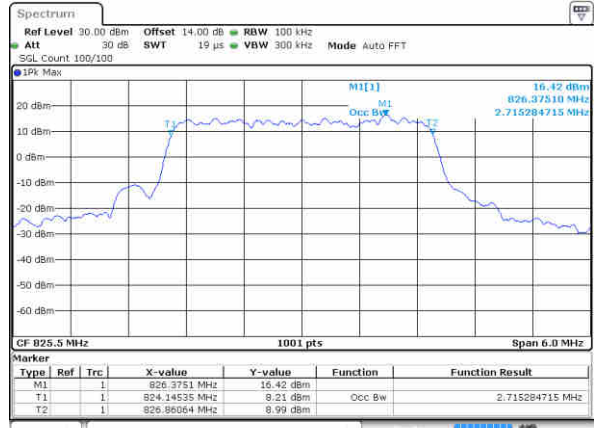
LTE Band 5

Lowest Channel / 3MHz / QPSK



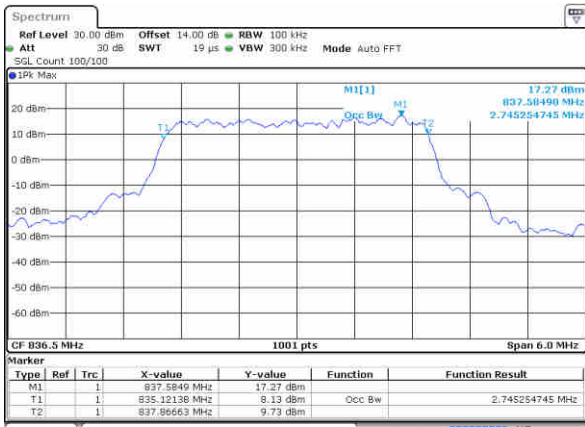
Date: 5 JAN 2018 17:04:09

Lowest Channel / 3MHz / 16QAM



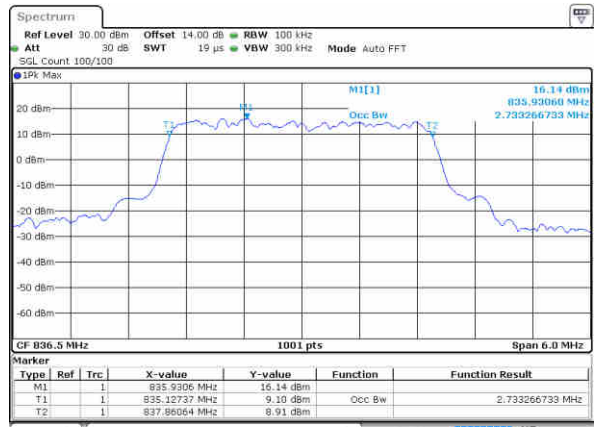
Date: 5 JAN 2018 17:04:19

Middle Channel / 3MHz / QPSK



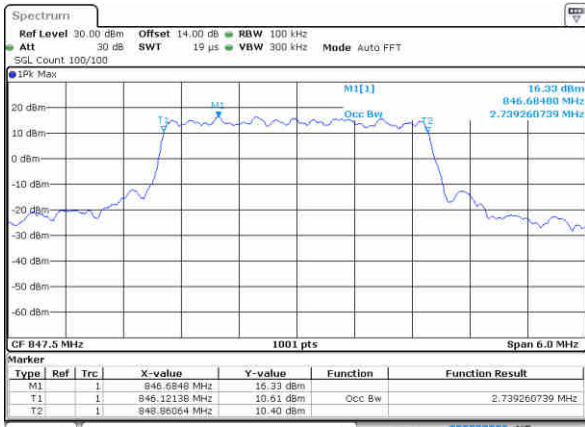
Date: 5 JAN 2018 17:13:06

Middle Channel / 3MHz / 16QAM



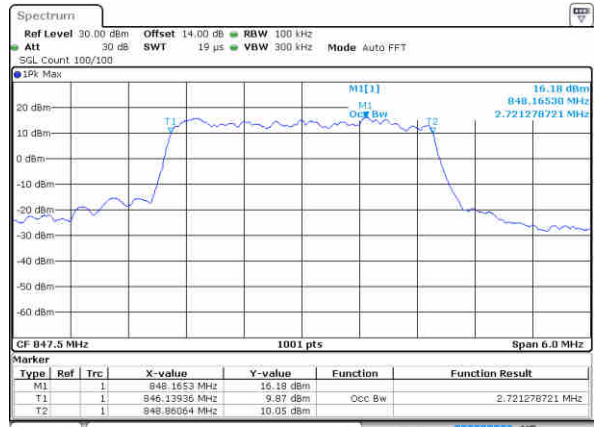
Date: 5 JAN 2018 17:13:16

Highest Channel / 3MHz / QPSK



Date: 5 JAN 2018 17:15:32

Highest Channel / 3MHz / 16QAM



Date: 5 JAN 2018 17:15:42