

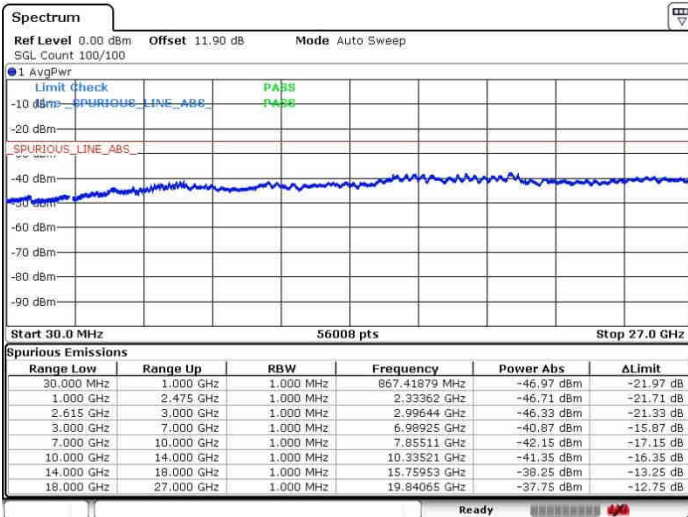


LTE Band 7 / 15MHz+10MHz

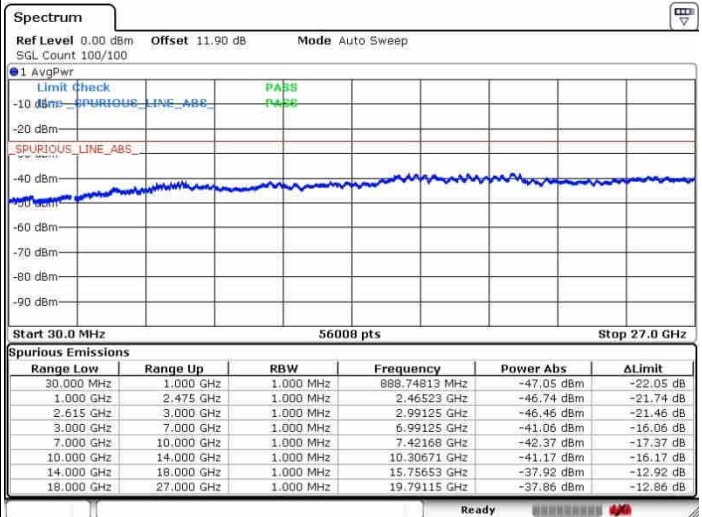
64QAM

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB74 and 1RB0



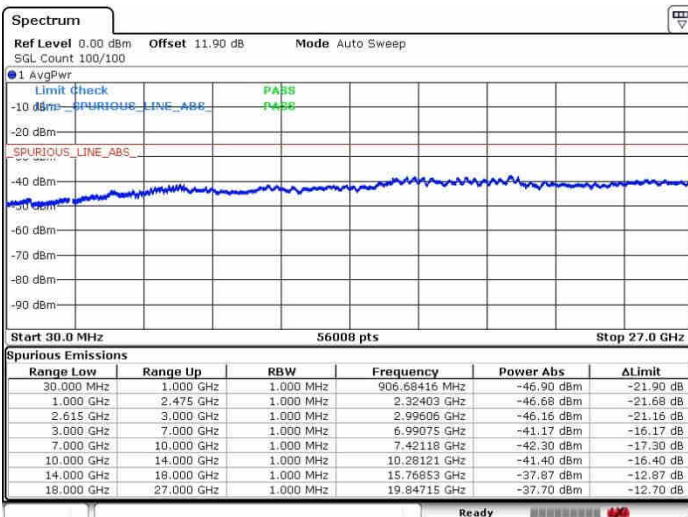
Date: 30.OCT.2017 09:46:59



Date: 30.OCT.2017 09:50:05

Lowest Channel / FullRB

N/A



Date: 30.OCT.2017 09:43:20

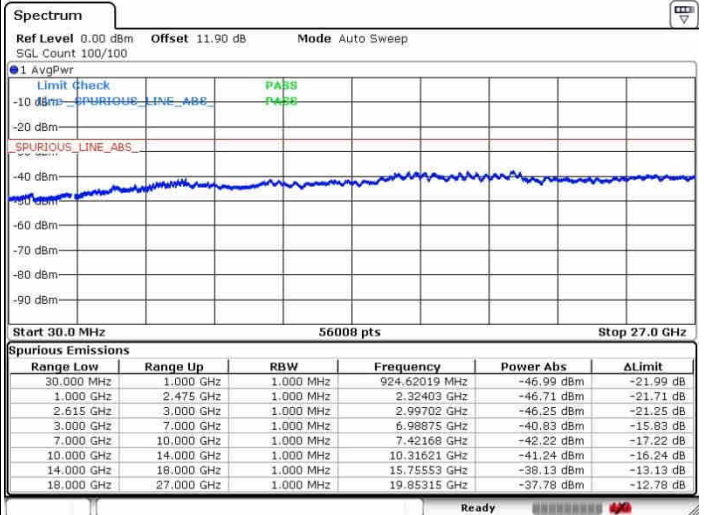
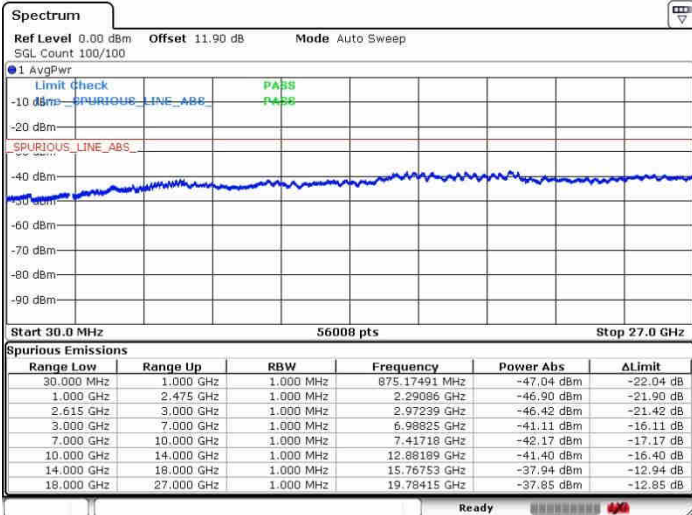


LTE Band 7 / 15MHz+10MHz

64QAM

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0

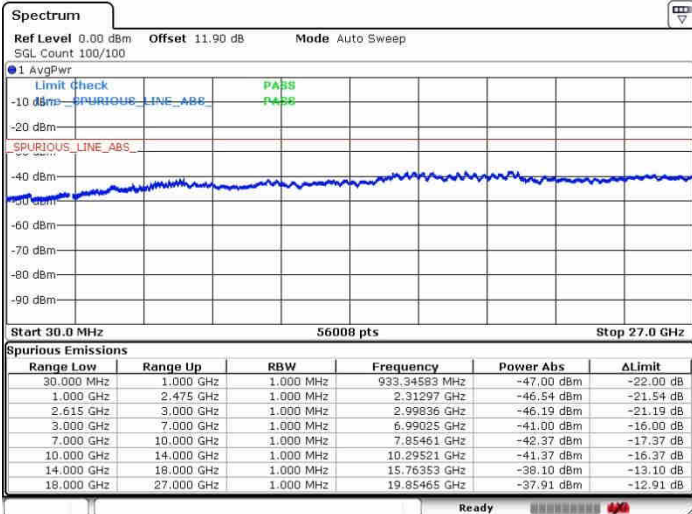


Date: 30.OCT.2017 09:55:27

Date: 30.OCT.2017 09:58:30

Middle Channel / FullIRB

N/A



Date: 30.OCT.2017 09:52:38

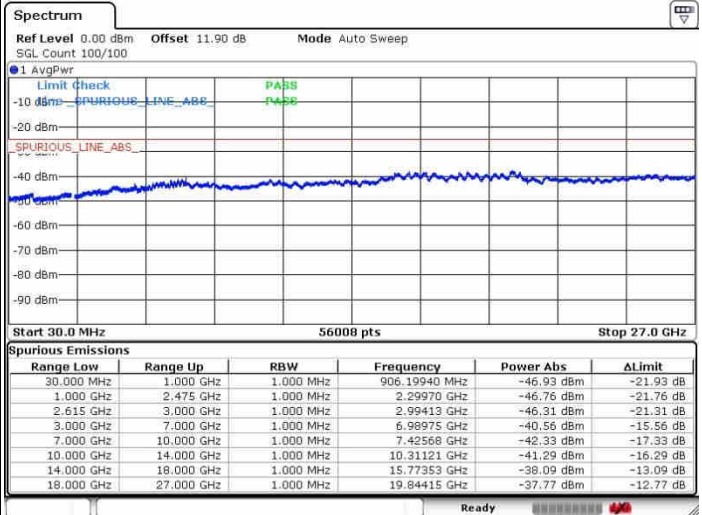
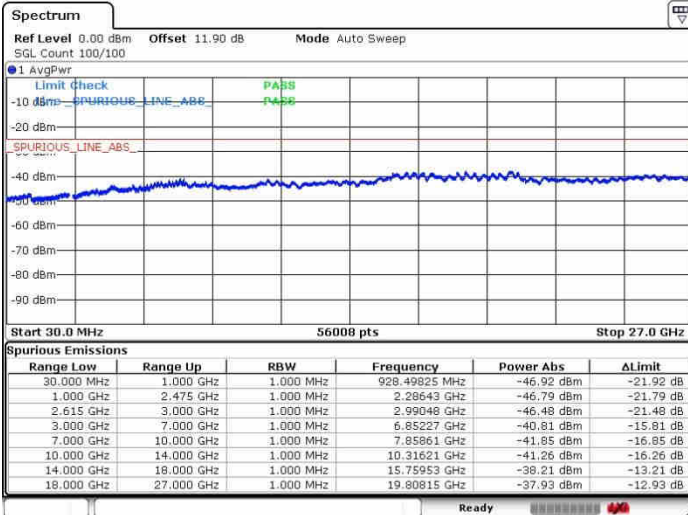


LTE Band 7 / 15MHz+10MHz

64QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0

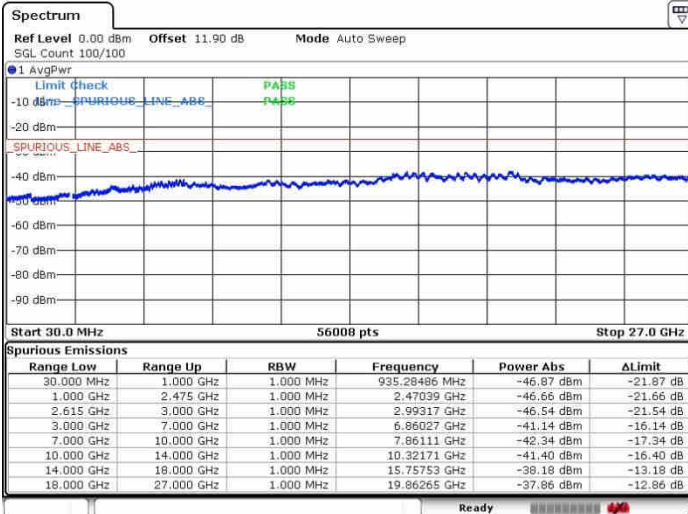


Date: 30.OCT.2017 10:06:03

Date: 30.OCT.2017 10:08:33

Highest Channel / FullIRB

N/A



Date: 30.OCT.2017 10:02:16



LTE Band 12

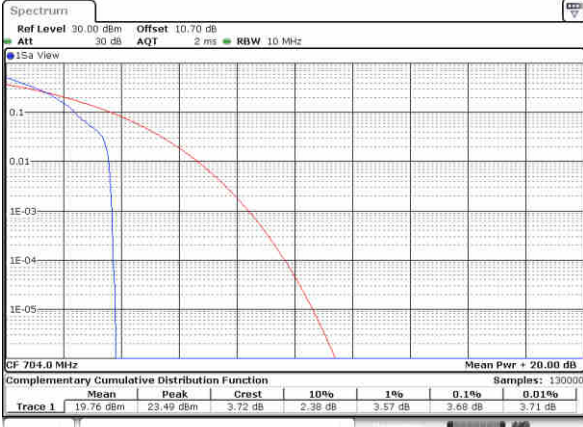
Peak-to-Average Ratio

| Mode | LTE Band 12 / 10MHz | | | | |
|------------|---------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.68 | 4.75 | 4.58 | 5.77 | PASS |
| Middle CH | 4.06 | 5.16 | 4.84 | 6.03 | |
| Highest CH | 4.46 | 5.1 | 5.39 | 6.03 | |
| Mode | LTE Band 12 / 10MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 4.58 | 5.77 | - | - | PASS |
| Middle CH | 4.84 | 6.03 | - | - | |
| Highest CH | 5.39 | 6.03 | - | - | |



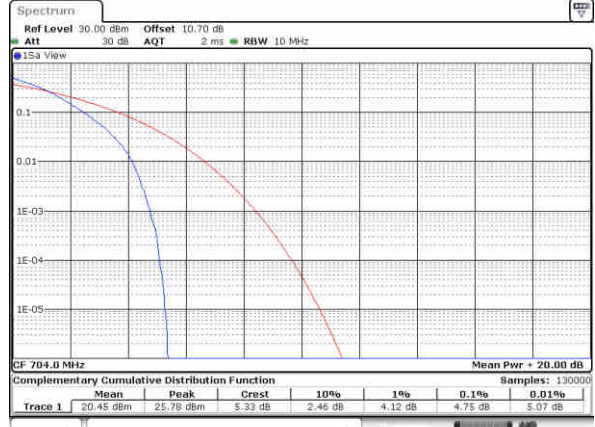
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



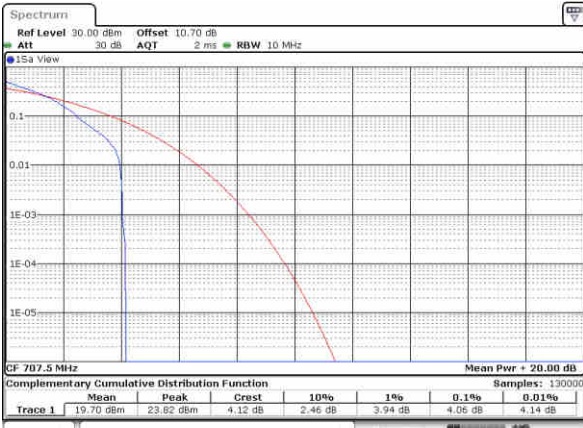
Date: 2.OCT.2017 00:00:07

Lowest Channel / Full RB



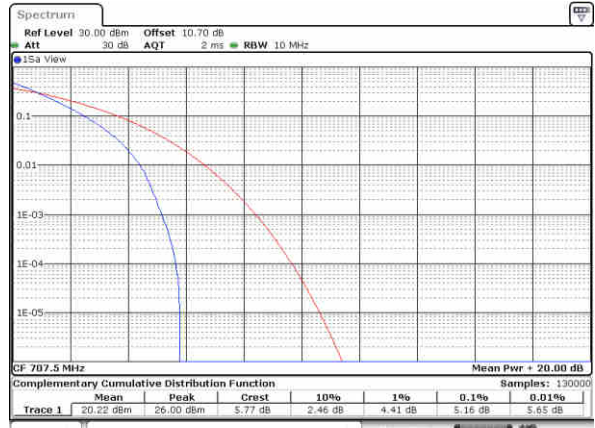
Date: 1.OCT.2017 23:59:59

Middle Channel / 1RB



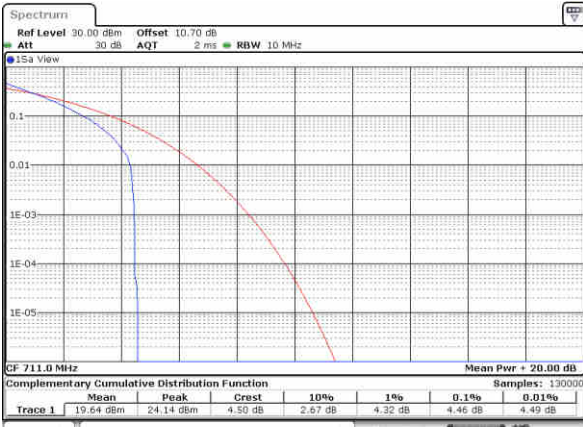
Date: 2.OCT.2017 00:00:16

Middle Channel / Full RB



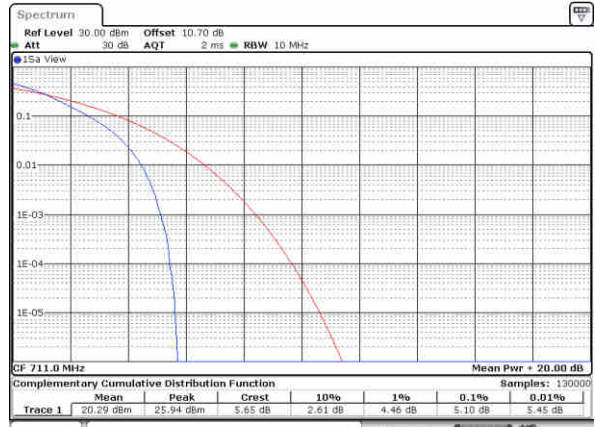
Date: 2.OCT.2017 00:00:49

Highest Channel / 1RB



Date: 2.OCT.2017 00:01:44

Highest Channel / Full RB

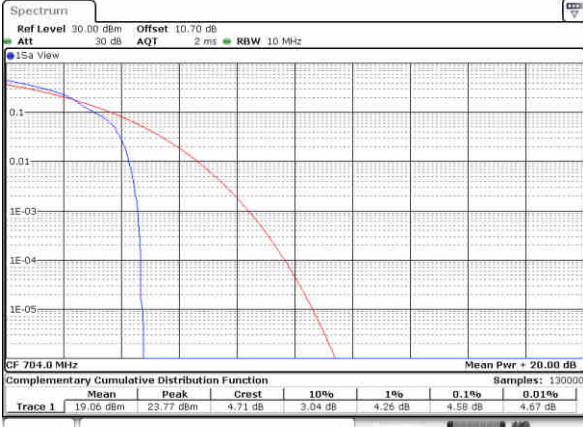


Date: 2.OCT.2017 00:00:57



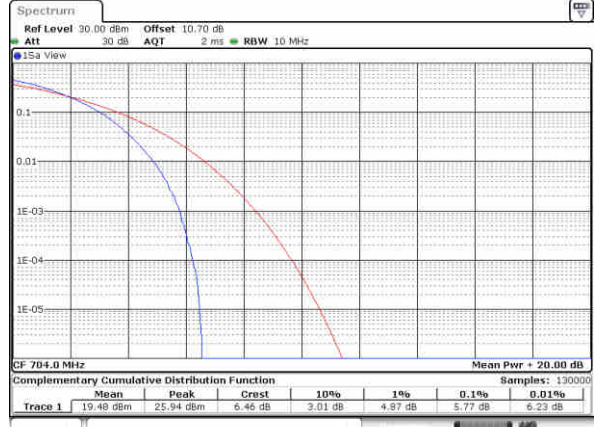
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



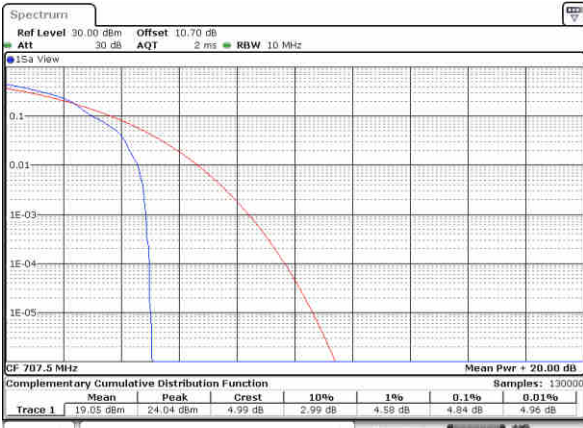
Date: 1.OCT.2017 23:58:15

Lowest Channel / Full RB



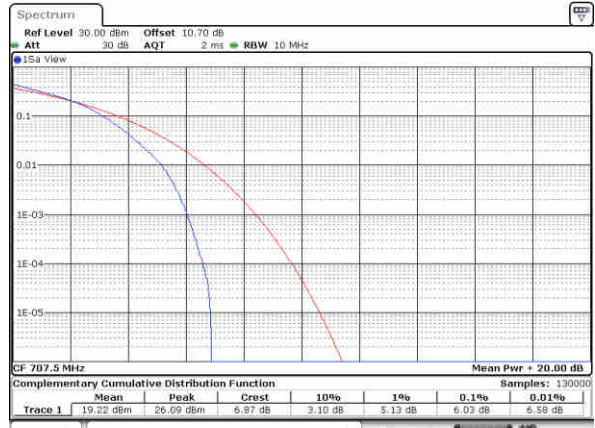
Date: 1.OCT.2017 23:58:05

Middle Channel / 1RB



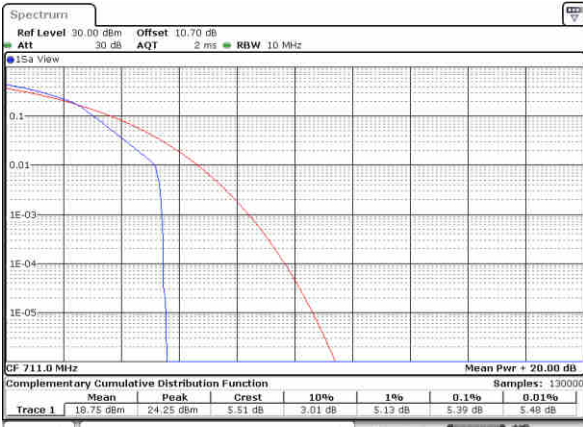
Date: 1.OCT.2017 23:59:22

Middle Channel / Full RB



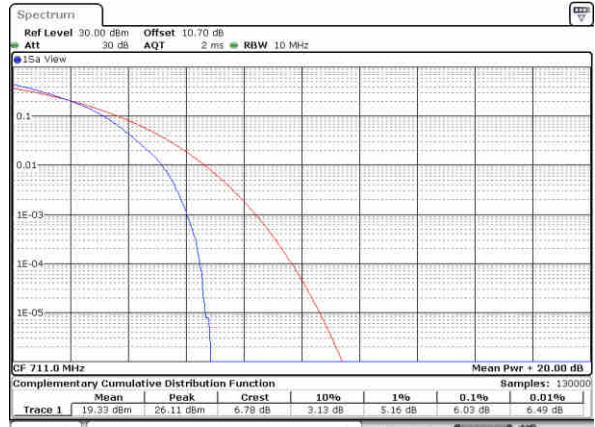
Date: 1.OCT.2017 23:59:30

Highest Channel / 1RB



Date: 1.OCT.2017 23:59:50

Highest Channel / Full RB

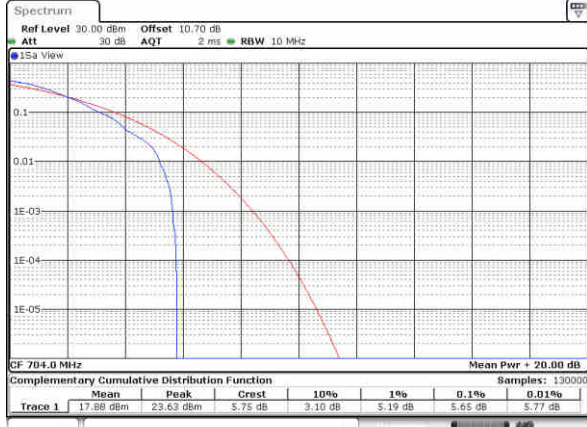


Date: 1.OCT.2017 23:59:41



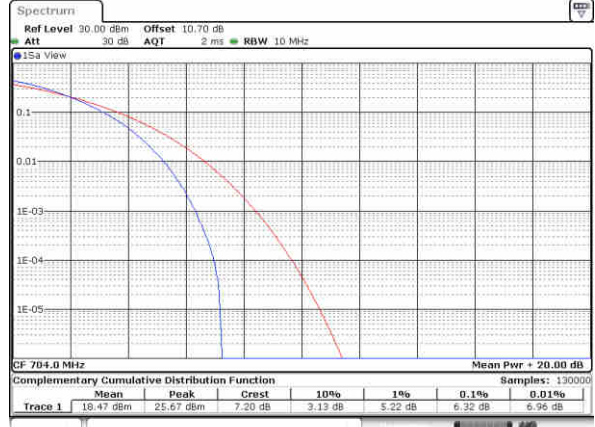
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



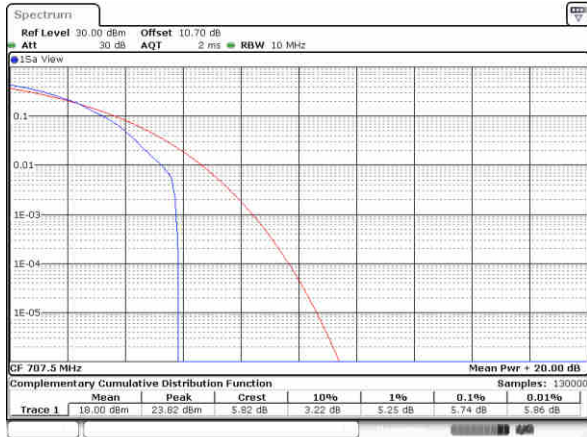
Date: 2.OCT.2017 01:11:24

Lowest Channel / Full RB



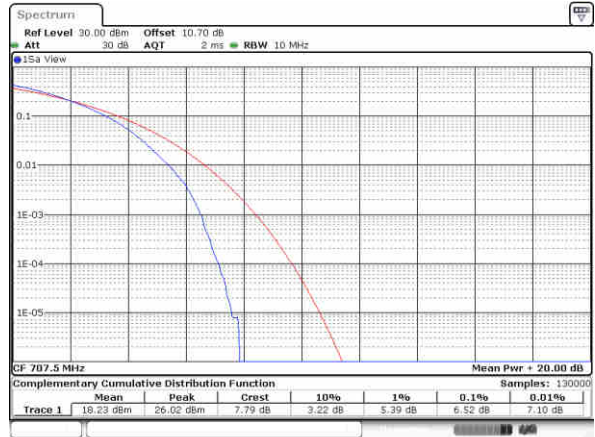
Date: 2.OCT.2017 01:11:11

Middle Channel / 1RB



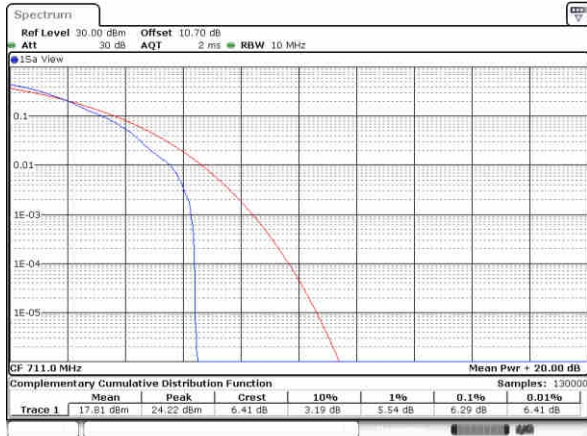
Date: 2.OCT.2017 01:11:33

Middle Channel / Full RB



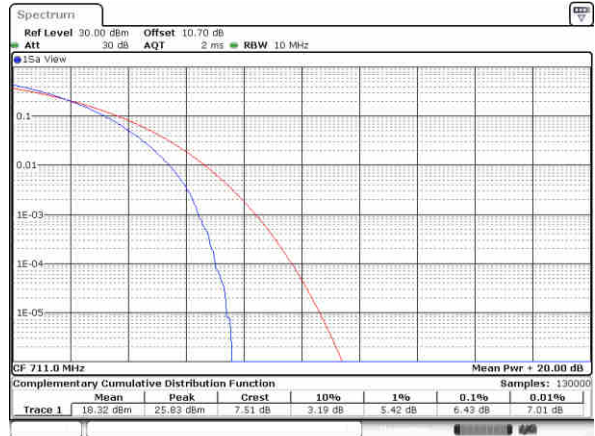
Date: 2.OCT.2017 01:11:45

Highest Channel / 1RB



Date: 2.OCT.2017 01:12:08

Highest Channel / Full RB



Date: 2.OCT.2017 01:11:58



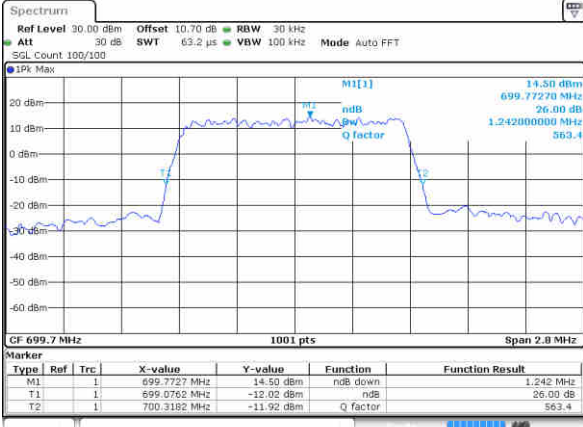
26dB Bandwidth

| Mode | LTE Band 12 : 26dB BW(MHz) | | | | | | | | | | | |
|------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 1.242 | 1.242 | 3.009 | 2.985 | 4.895 | 4.865 | 9.59 | 9.67 | - | - | - | - |
| Middle CH | 1.231 | 1.231 | 3.057 | 2.997 | 4.835 | 4.915 | 9.67 | 9.69 | - | - | - | - |
| Highest CH | 1.231 | 1.222 | 3.021 | 3.009 | 4.845 | 4.895 | 9.81 | 9.93 | - | - | - | - |
| Mode | LTE Band 12 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | 1.21 | - | 3.04 | - | 4.92 | - | 9.81 | - | - | - | - | - |
| Middle CH | 1.22 | - | 3.01 | - | 4.99 | - | 9.69 | - | - | - | - | - |
| Highest CH | 1.22 | - | 2.98 | - | 4.86 | - | 9.93 | - | - | - | - | - |



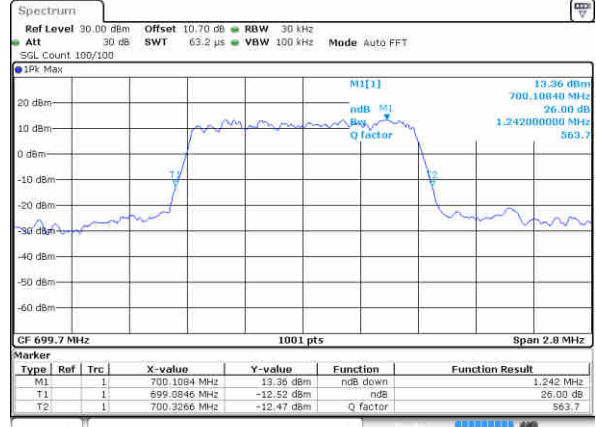
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



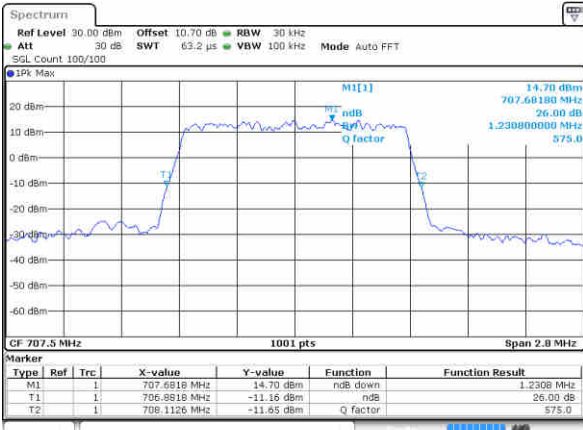
Date: 1.OCT.2017 22:12:48

Lowest Channel / 1.4MHz / 16QAM



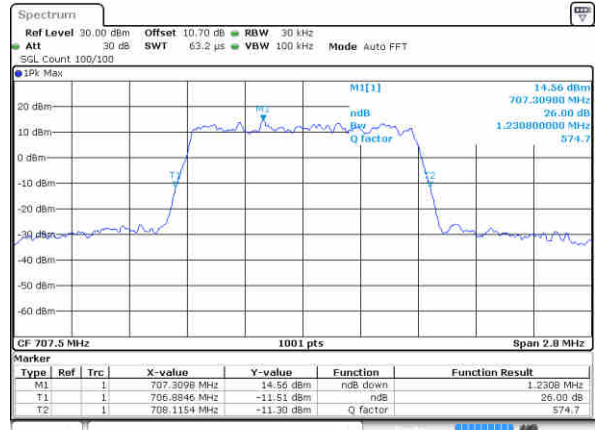
Date: 1.OCT.2017 22:12:38

Middle Channel / 1.4MHz / QPSK



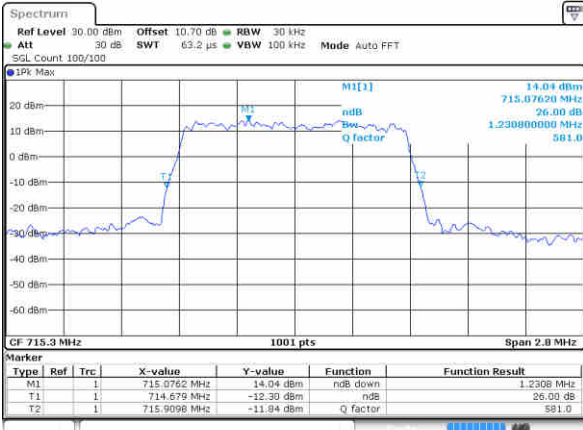
Date: 1.OCT.2017 22:19:40

Middle Channel / 1.4MHz / 16QAM



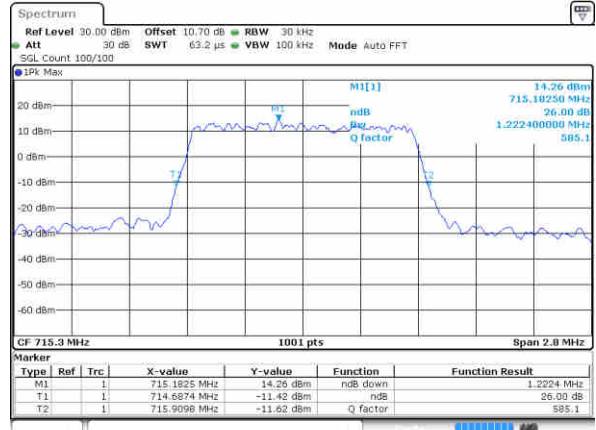
Date: 1.OCT.2017 22:19:50

Highest Channel / 1.4MHz / QPSK



Date: 1.OCT.2017 22:22:17

Highest Channel / 1.4MHz / 16QAM

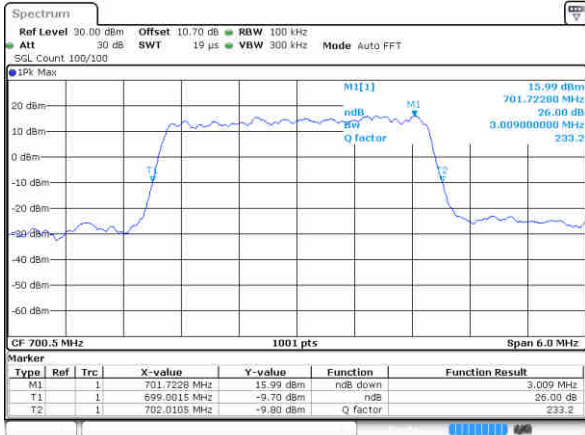


Date: 1.OCT.2017 22:22:07



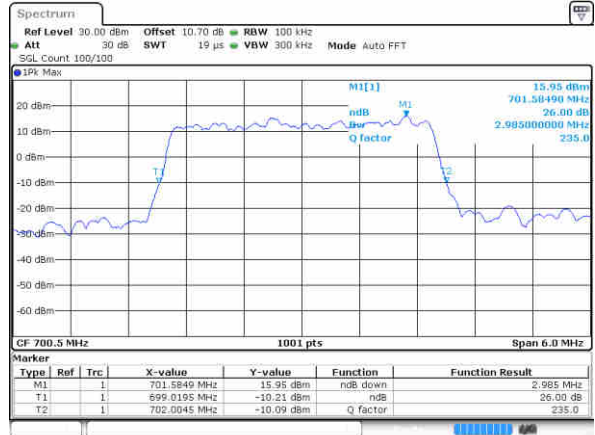
LTE Band 12

Lowest Channel / 3MHz / QPSK



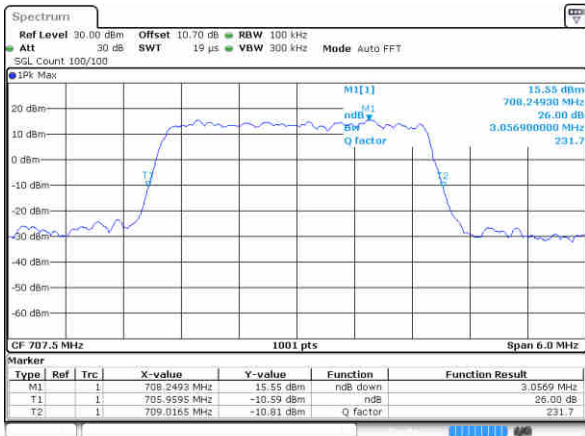
Date: 1.OCT.2017 20:28:13

Lowest Channel / 3MHz / 16QAM



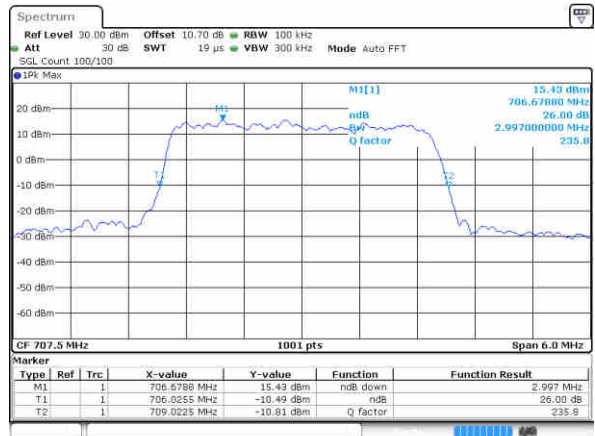
Date: 1.OCT.2017 20:28:53

Middle Channel / 3MHz / QPSK



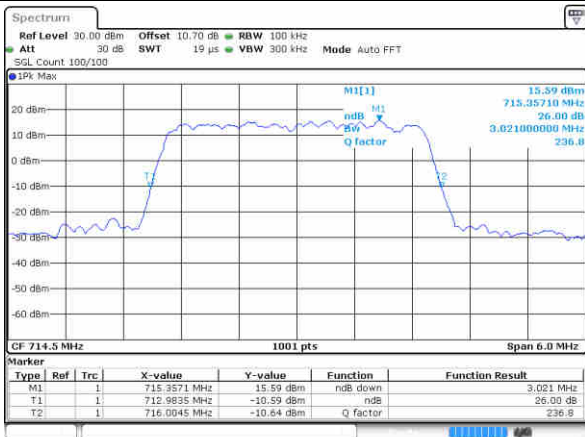
Date: 1.OCT.2017 20:35:05

Middle Channel / 3MHz / 16QAM



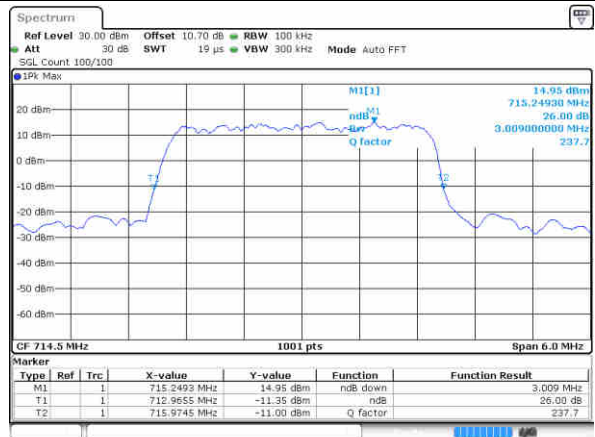
Date: 1.OCT.2017 20:35:15

Highest Channel / 3MHz / QPSK



Date: 1.OCT.2017 20:37:43

Highest Channel / 3MHz / 16QAM

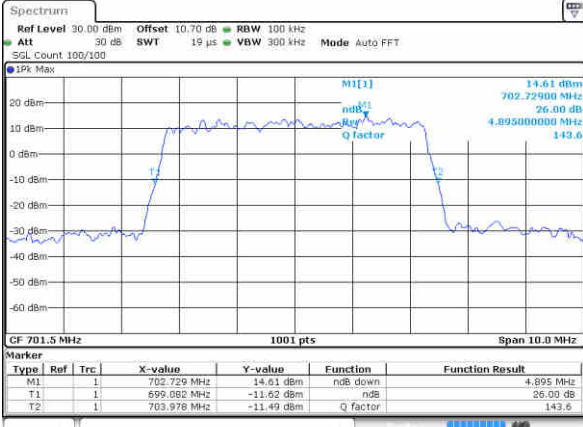


Date: 1.OCT.2017 20:37:33



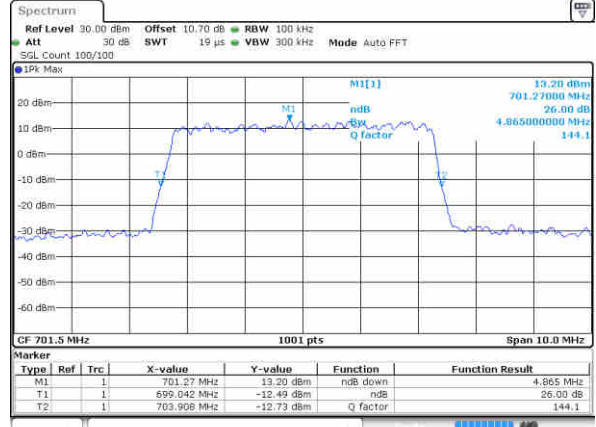
LTE Band 12

Lowest Channel / 5MHz / QPSK



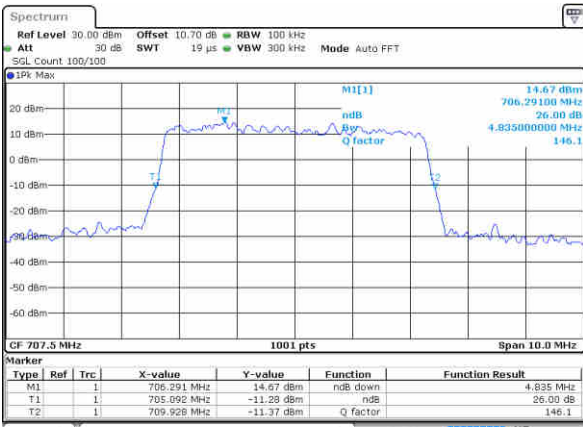
Date: 1.OCT.2017 20:44:45

Lowest Channel / 5MHz / 16QAM



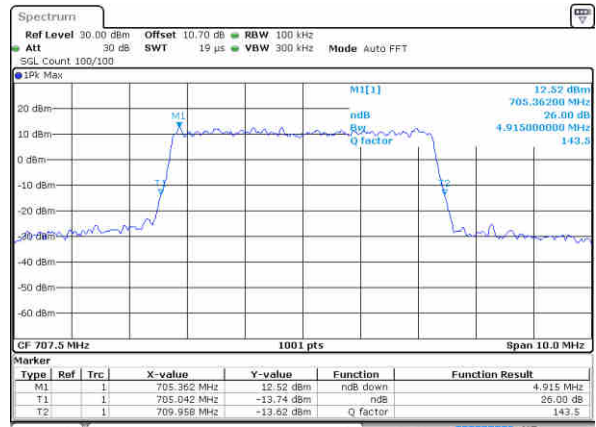
Date: 1.OCT.2017 20:44:35

Middle Channel / 5MHz / QPSK



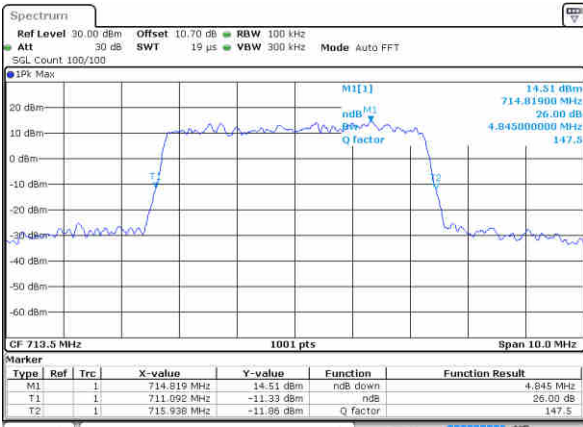
Date: 1.OCT.2017 20:51:38

Middle Channel / 5MHz / 16QAM



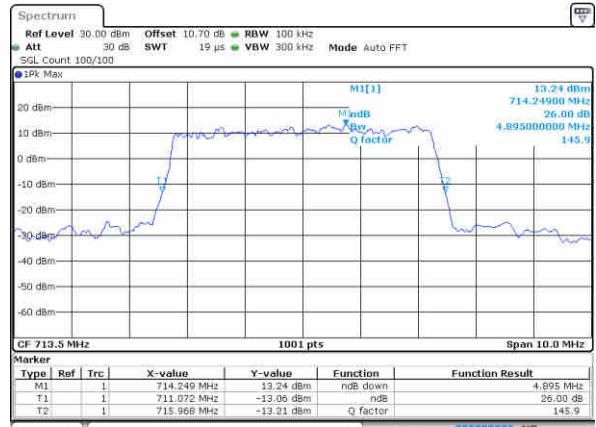
Date: 1.OCT.2017 20:51:45

Highest Channel / 5MHz / QPSK



Date: 1.OCT.2017 20:54:15

Highest Channel / 5MHz / 16QAM

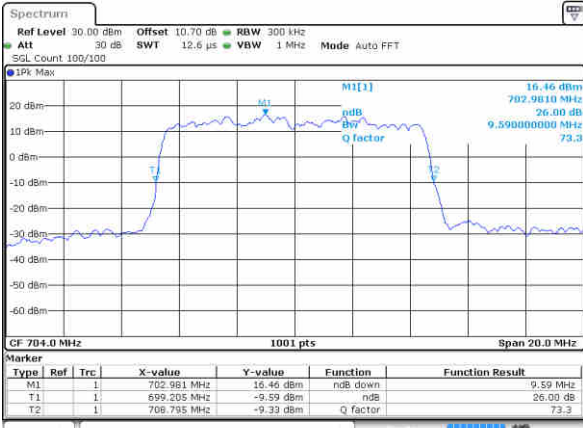


Date: 1.OCT.2017 20:54:05



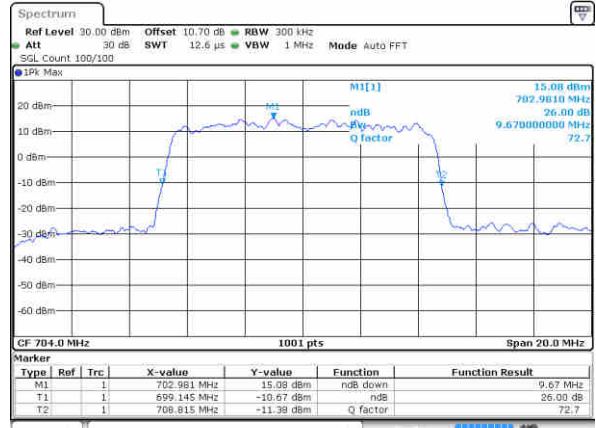
LTE Band 12

Lowest Channel / 10MHz / QPSK



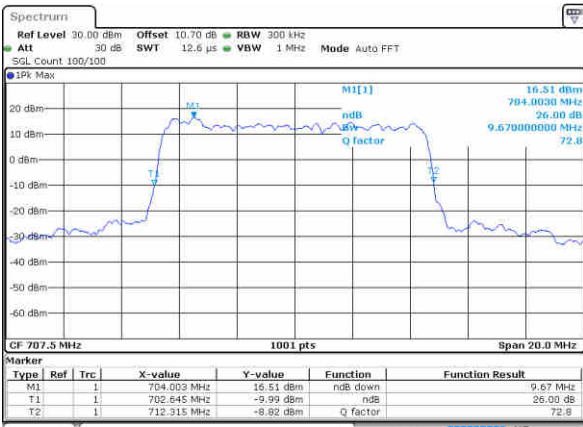
Date: 1.OCT.2017 21:01:18

Lowest Channel / 10MHz / 16QAM



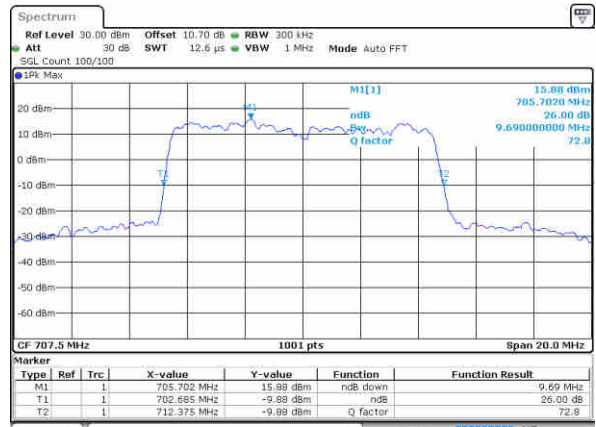
Date: 1.OCT.2017 21:01:08

Middle Channel / 10MHz / QPSK



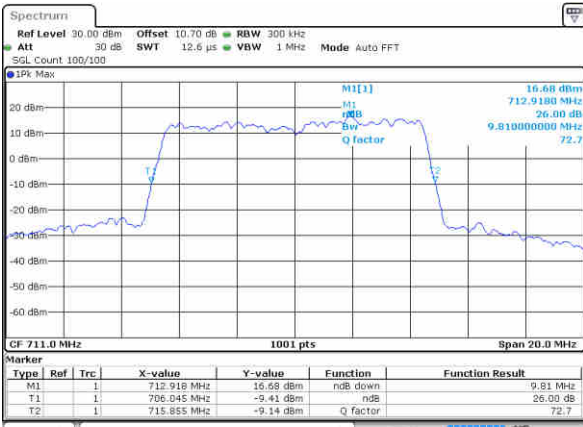
Date: 1.OCT.2017 21:08:10

Middle Channel / 10MHz / 16QAM



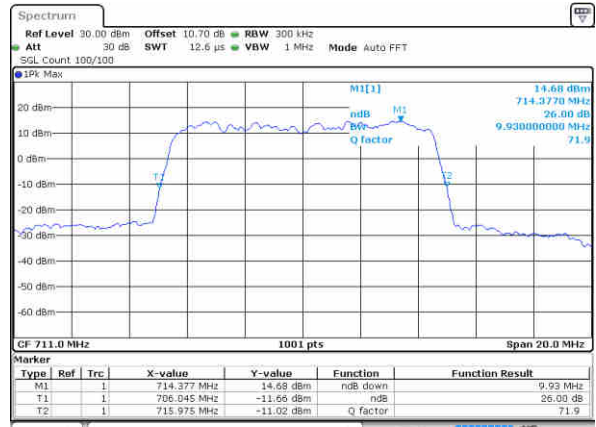
Date: 1.OCT.2017 21:08:20

Highest Channel / 10MHz / QPSK



Date: 1.OCT.2017 21:10:47

Highest Channel / 10MHz / 16QAM

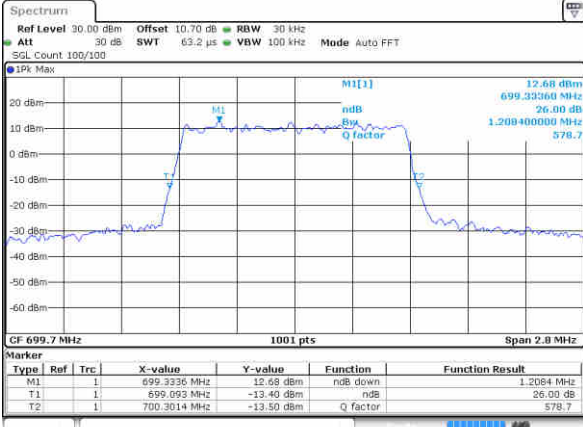


Date: 1.OCT.2017 21:10:37



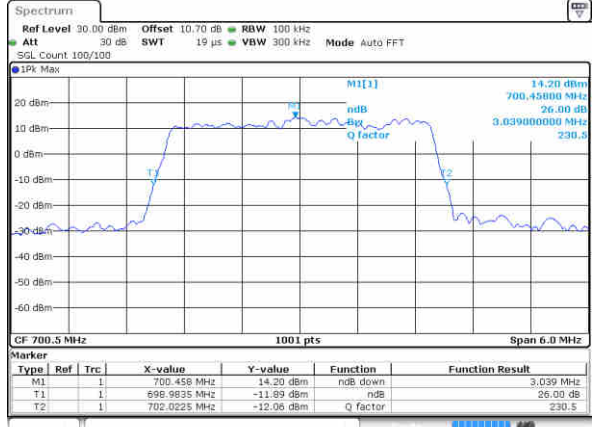
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



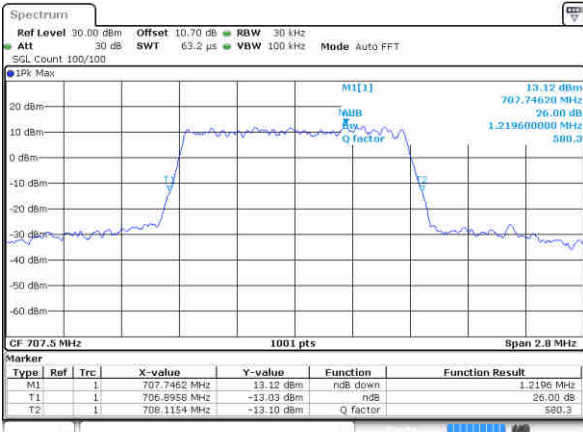
Date: 2.OCT.2017 01:01:34

Lowest Channel / 3MHz / 64QAM



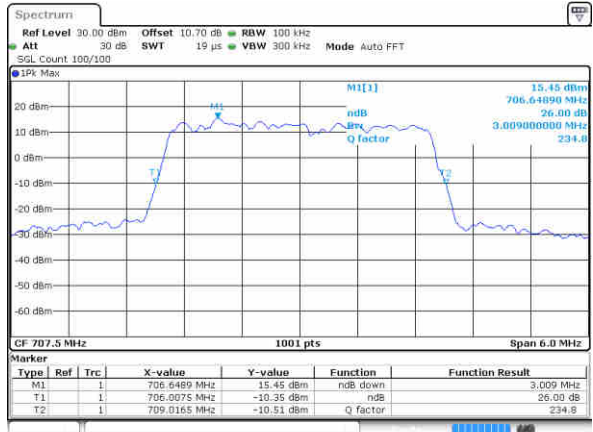
Date: 2.OCT.2017 00:36:46

Middle Channel / 1.4MHz / 64QAM



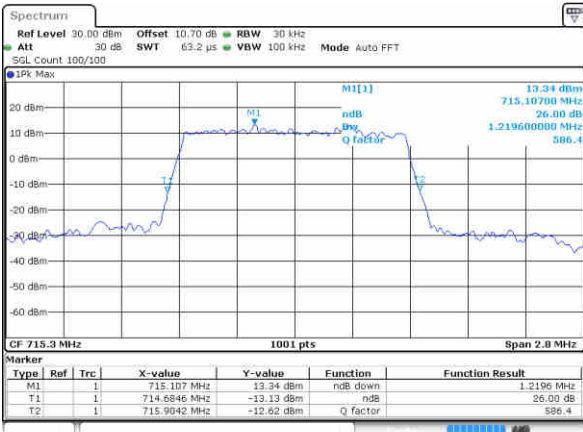
Date: 2.OCT.2017 01:05:05

Middle Channel / 3MHz / 64QAM



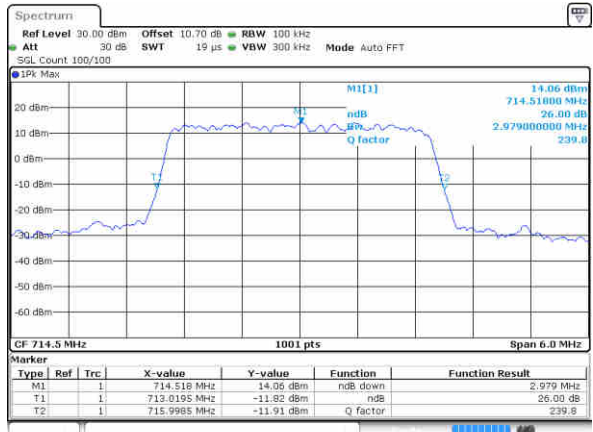
Date: 2.OCT.2017 00:40:17

Highest Channel / 1.4MHz / 64QAM



Date: 2.OCT.2017 01:06:19

Highest Channel / 3MHz / 64QAM

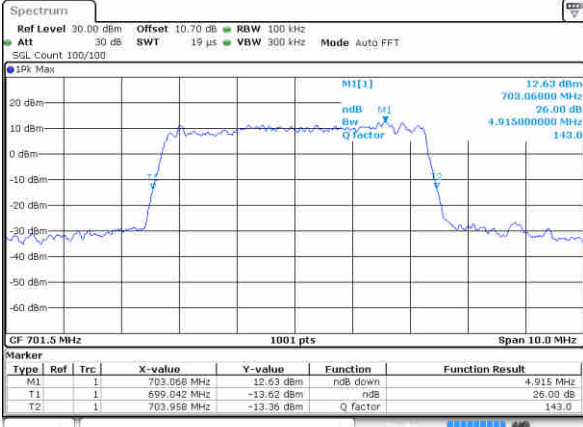


Date: 2.OCT.2017 00:41:31



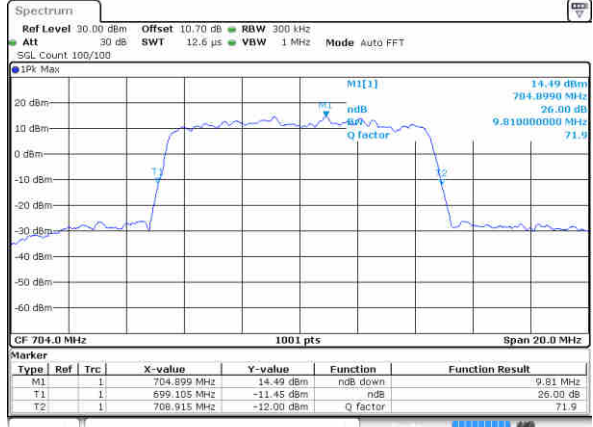
LTE Band 12

Lowest Channel / 5MHz / 64QAM



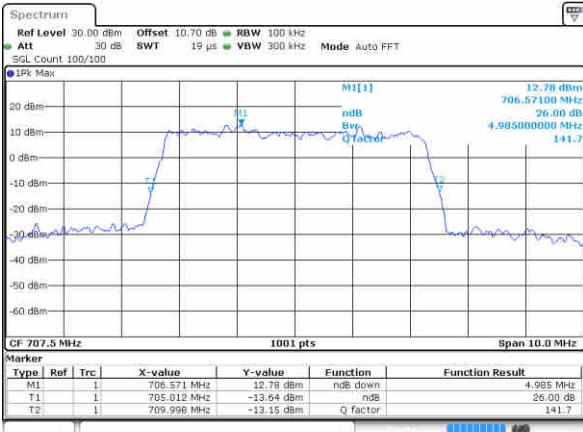
Date: 2.OCT.2017 00:45:02

Lowest Channel / 10MHz / 64QAM



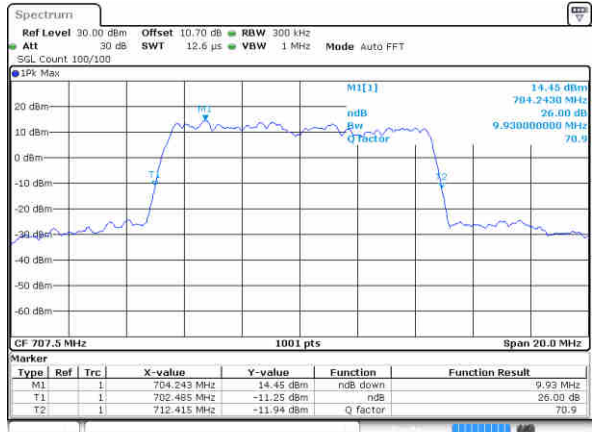
Date: 2.OCT.2017 00:53:18

Middle Channel / 5MHz / 64QAM



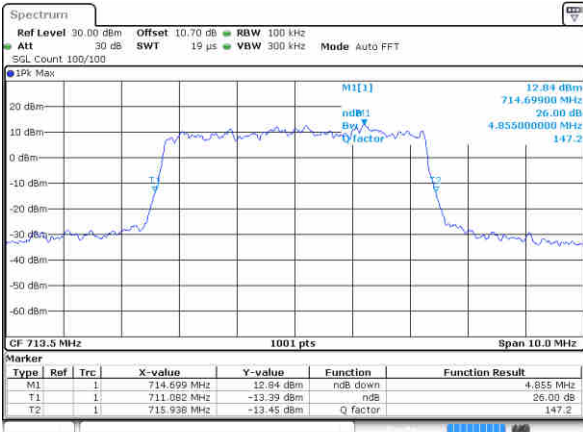
Date: 2.OCT.2017 00:48:33

Middle Channel / 10MHz / 64QAM



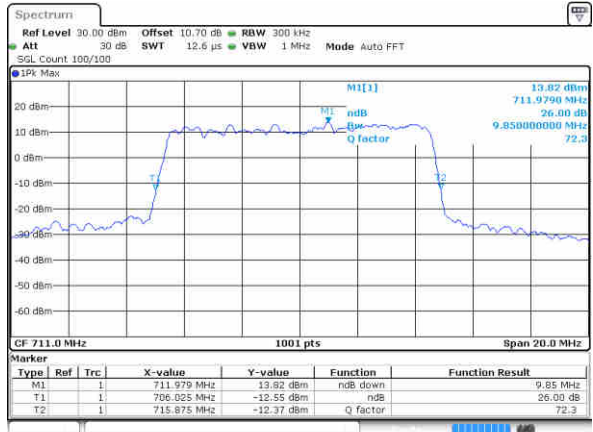
Date: 2.OCT.2017 00:56:50

Highest Channel / 5MHz / 64QAM



Date: 2.OCT.2017 00:49:47

Highest Channel / 10MHz / 64QAM



Date: 2.OCT.2017 00:58:03



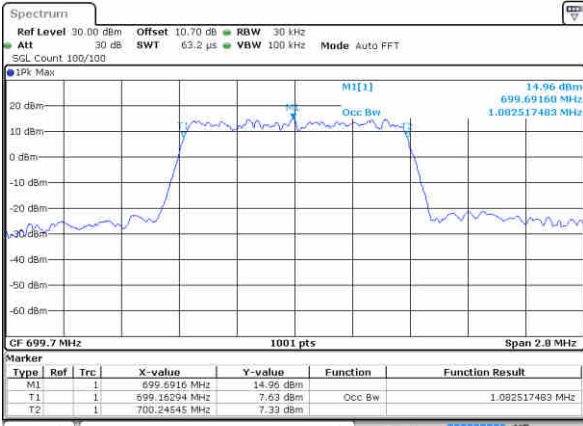
Occupied Bandwidth

| 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 | 1.08 | 1.09 | 2.72 | 2.73 | 4.5 | 4.48 | 9.05 | 8.97 | - | - | - | - |
| Middle CH | 1.09 | 1.1 | 2.72 | 2.73 | 4.52 | 4.5 | 9.11 | 9.09 | - | - | - | - |
| Highest CH | 1.09 | 1.09 | 2.72 | 2.72 | 4.48 | 4.5 | 9.01 | 9.07 | - | - | - | - |
| Mode | LTE Band 12 : 99%OBW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | 1.09 | - | 2.70 | - | 4.48 | - | 8.95 | - | - | - | - | - |
| Middle CH | 1.09 | - | 2.73 | - | 4.51 | - | 9.01 | - | - | - | - | - |
| Highest CH | 1.09 | - | 2.73 | - | 4.5 | - | 9.01 | - | - | - | - | - |

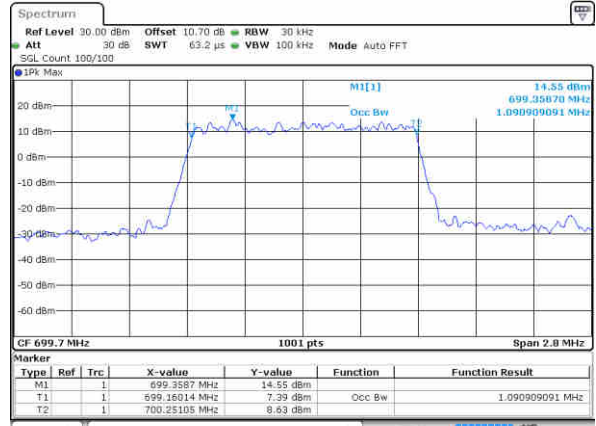


LTE Band 12

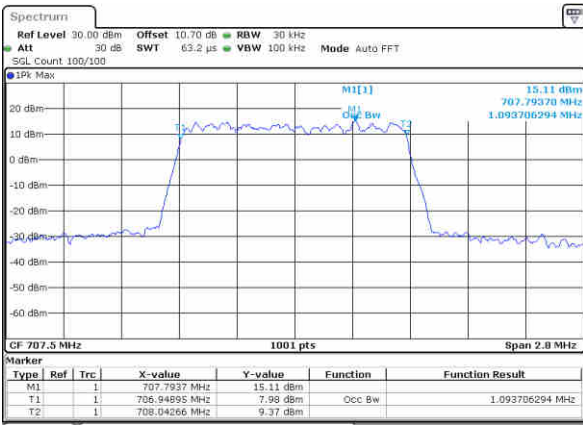
Lowest Channel / 1.4MHz / QPSK



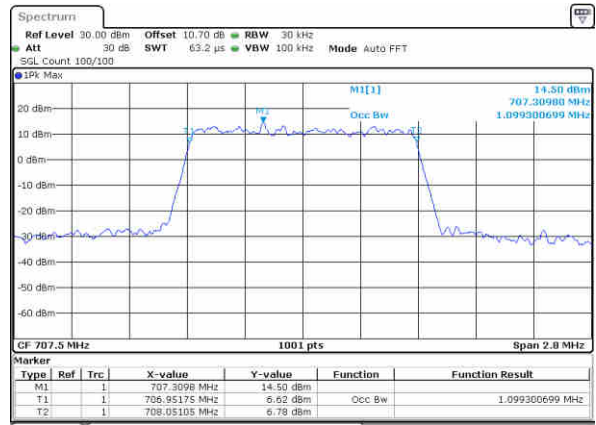
Lowest Channel / 1.4MHz / 16QAM



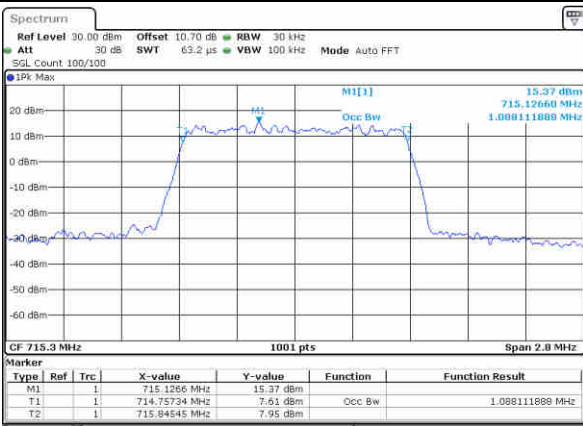
Middle Channel / 1.4MHz / QPSK



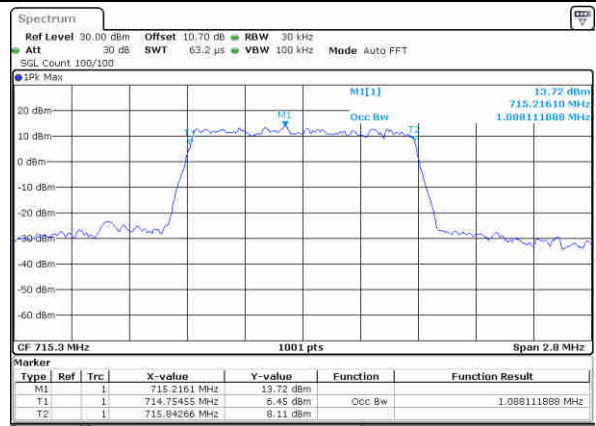
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



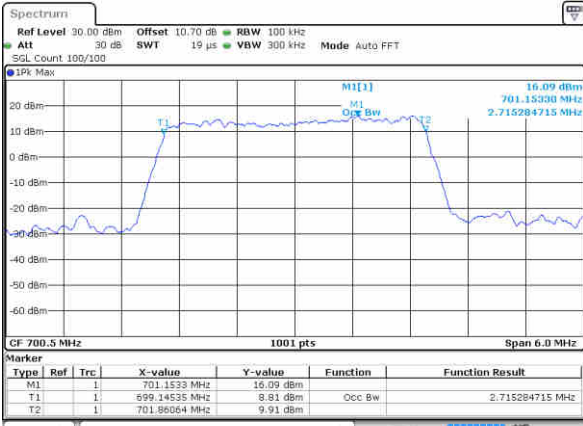
Highest Channel / 1.4MHz / 16QAM





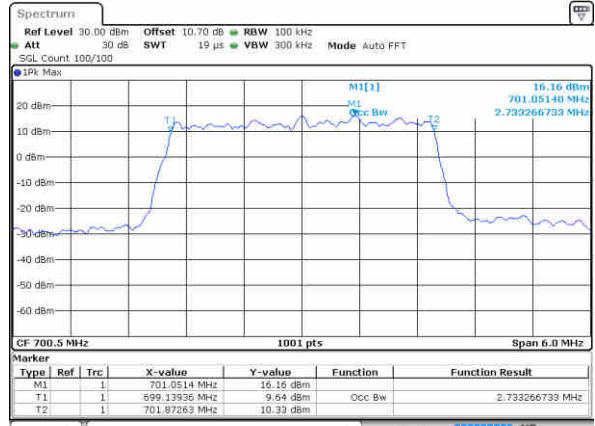
LTE Band 12

Lowest Channel / 3MHz / QPSK



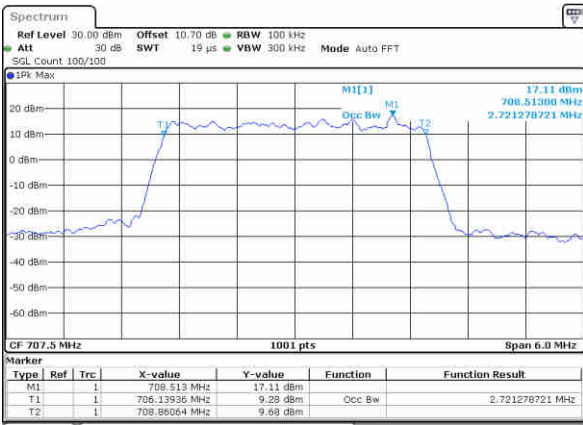
Date: 1.OCT.2017 20:27:43

Lowest Channel / 3MHz / 16QAM



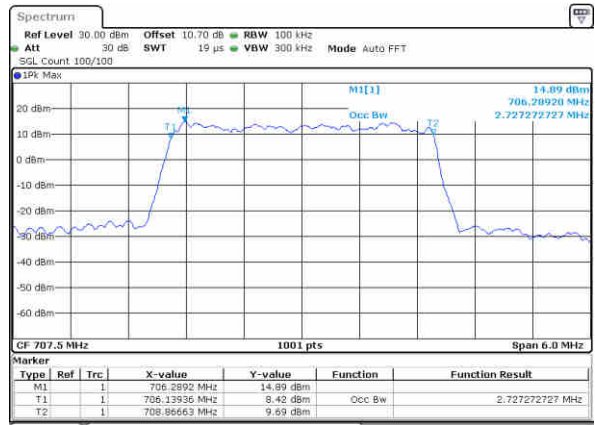
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Middle Channel / 3MHz / QPSK



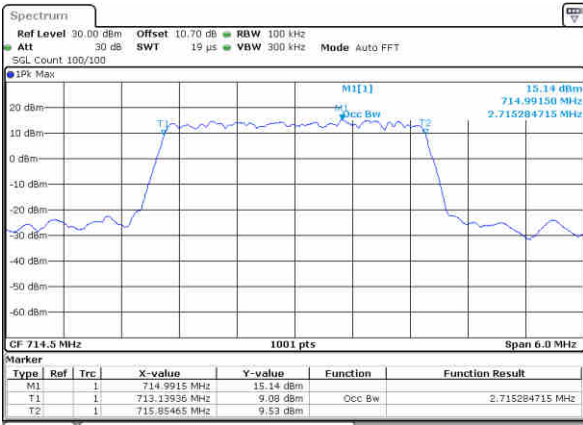
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Middle Channel / 3MHz / 16QAM



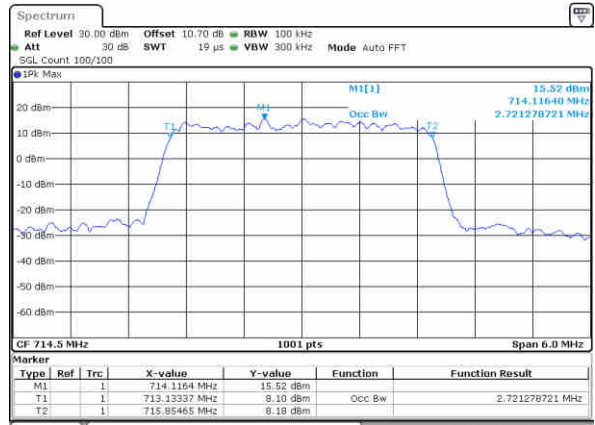
Date: 1.OCT.2017 20:34:45

Highest Channel / 3MHz / QPSK



Date: 1.OCT.2017 20:37:13

Highest Channel / 3MHz / 16QAM

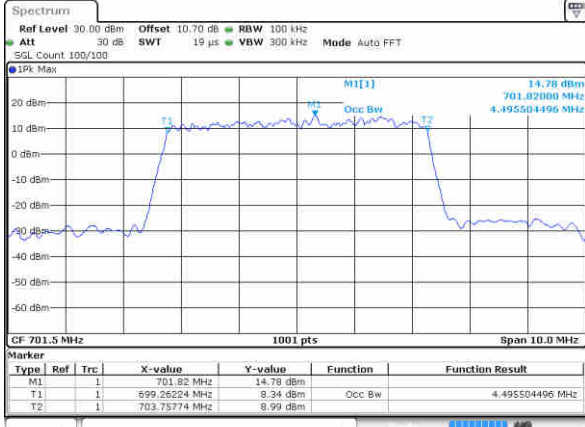


Date: 1.OCT.2017 20:37:23



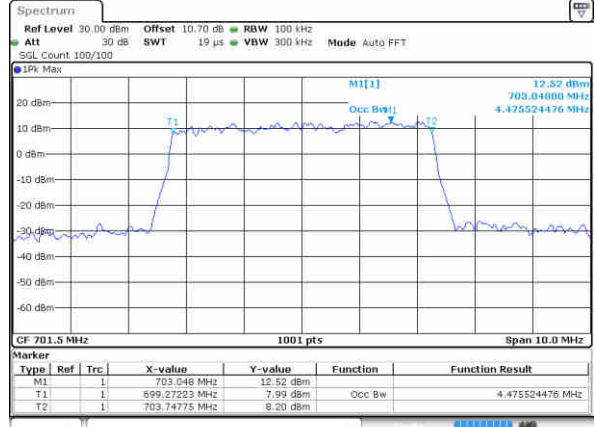
LTE Band 12

Lowest Channel / 5MHz / QPSK



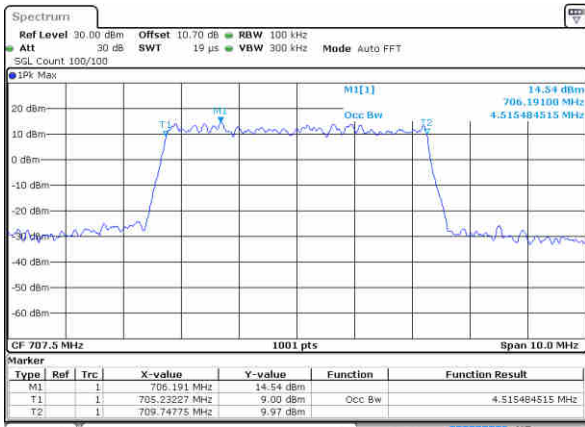
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Lowest Channel / 5MHz / 16QAM



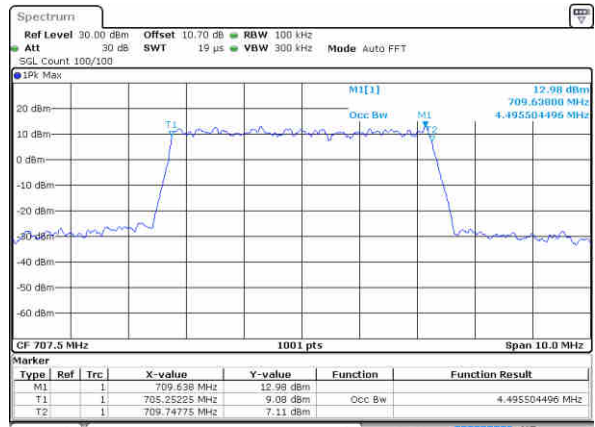
Date: 1.OCT.2017 20:44:25

Middle Channel / 5MHz / QPSK



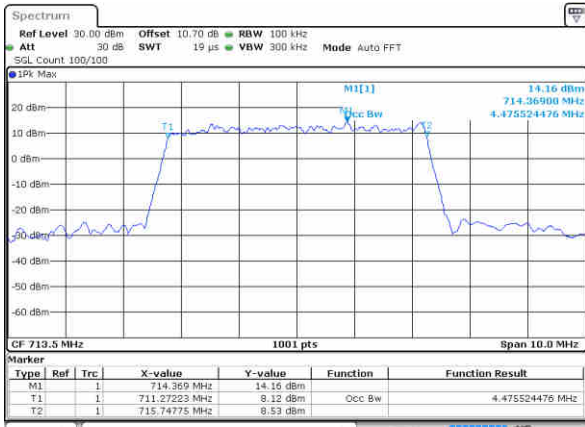
Date: 1.OCT.2017 20:51:28

Middle Channel / 5MHz / 16QAM



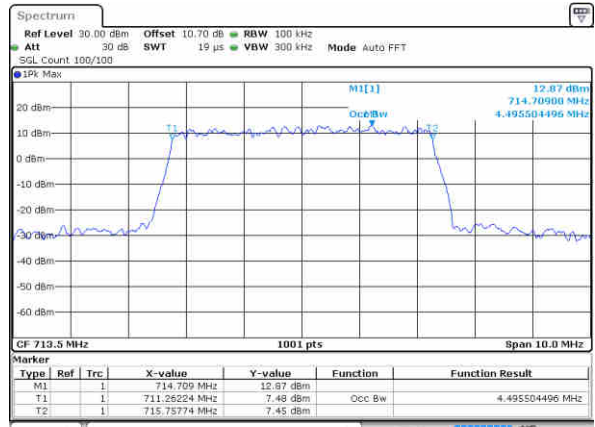
Date: 1.OCT.2017 20:51:16

Highest Channel / 5MHz / QPSK



Date: 1.OCT.2017 20:53:45

Highest Channel / 5MHz / 16QAM

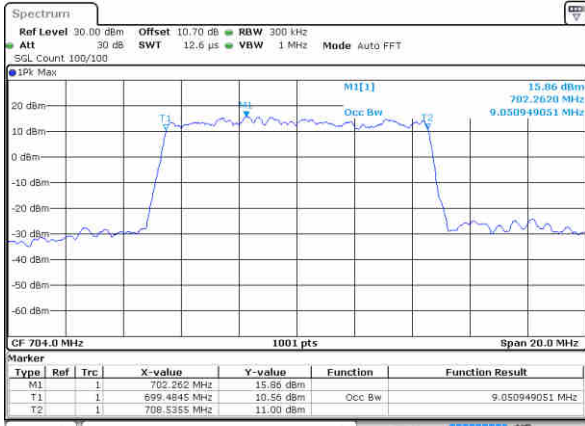


Date: 1.OCT.2017 20:53:55



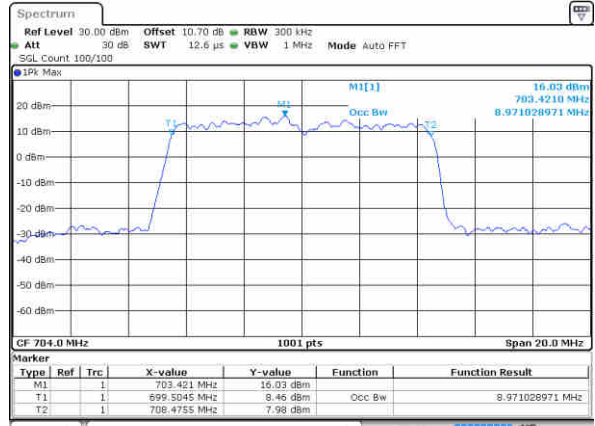
LTE Band 12

Lowest Channel / 10MHz / QPSK



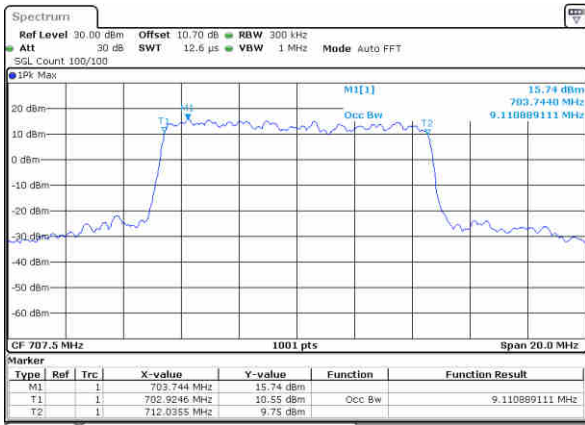
Date: 1.OCT.2017 21:00:48

Lowest Channel / 10MHz / 16QAM



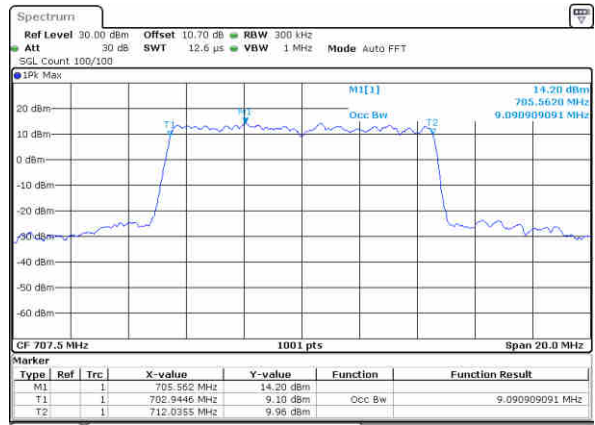
Date: 1.OCT.2017 21:00:58

Middle Channel / 10MHz / QPSK



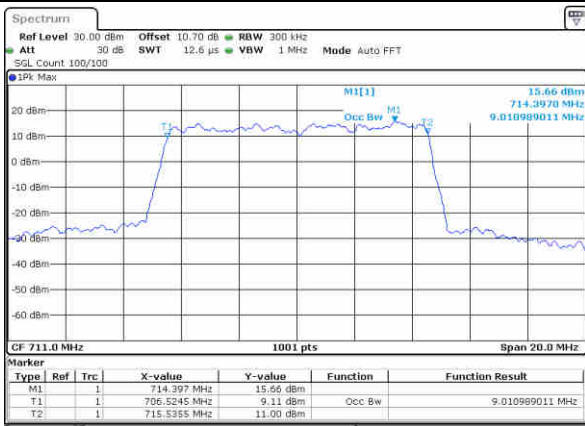
Date: 1.OCT.2017 21:08:00

Middle Channel / 10MHz / 16QAM



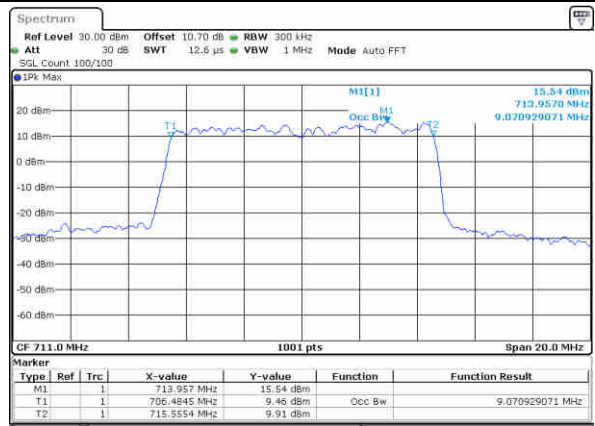
Date: 1.OCT.2017 21:07:50

Highest Channel / 10MHz / QPSK



Date: 1.OCT.2017 21:10:17

Highest Channel / 10MHz / 16QAM

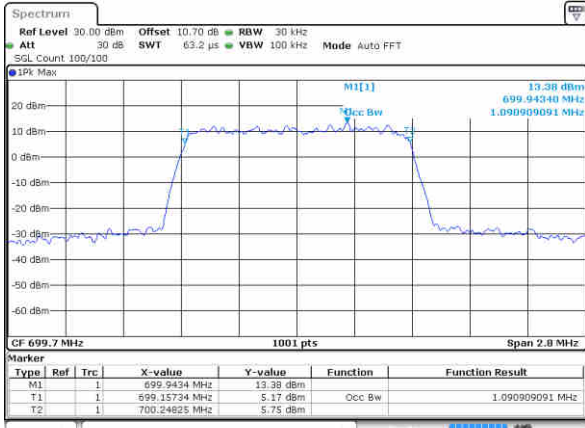


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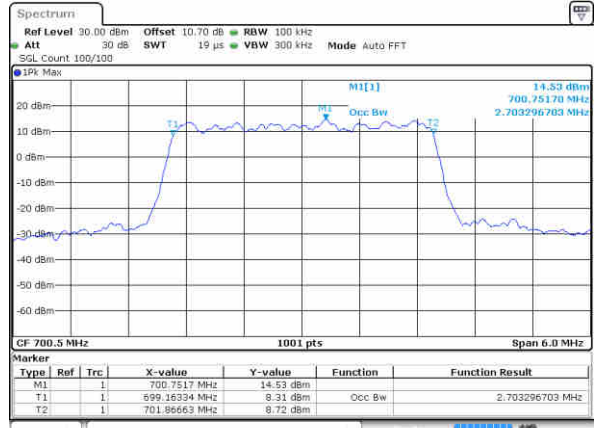
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



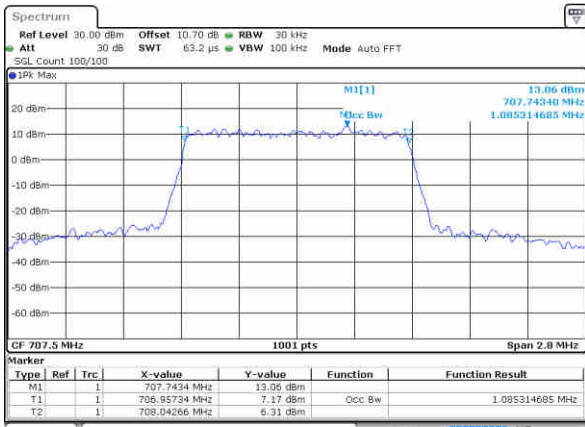
Date: 2.OCT.2017 01:01:24

Lowest Channel / 3MHz / 64QAM



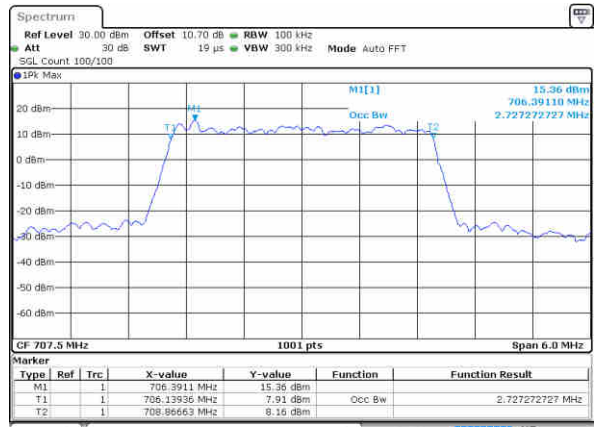
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Middle Channel / 1.4MHz / 64QAM



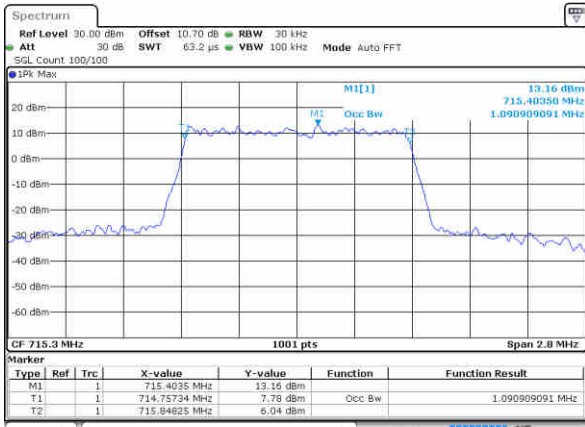
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Middle Channel / 3MHz / 64QAM



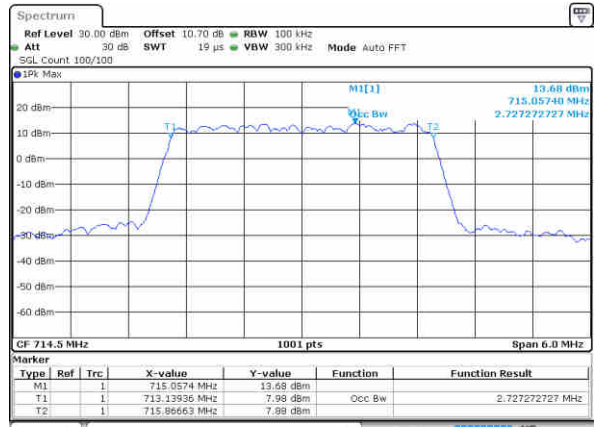
Date: 2.OCT.2017 00:40:07

Highest Channel / 1.4MHz / 64QAM



Date: 2.OCT.2017 01:06:09

Highest Channel / 3MHz / 64QAM

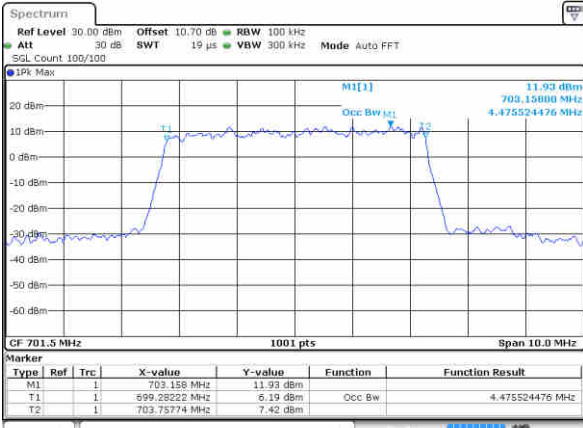


Date: 2.OCT.2017 00:41:21



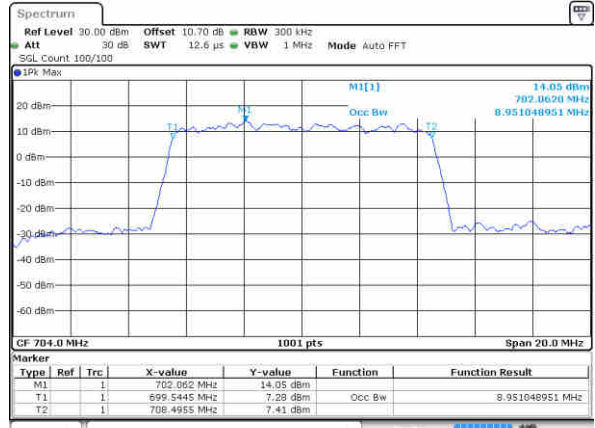
LTE Band 12

Lowest Channel / 5MHz / 64QAM



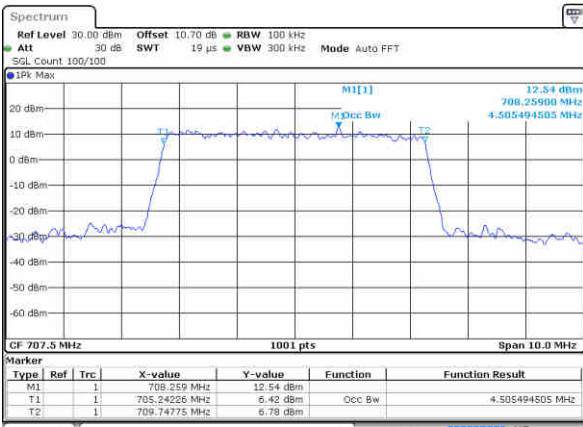
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Lowest Channel / 10MHz / 64QAM



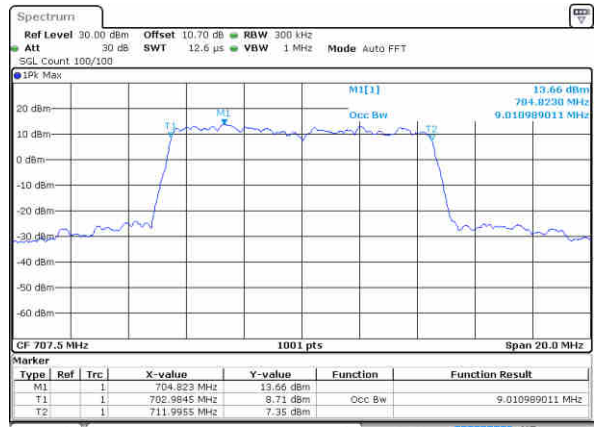
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Middle Channel / 5MHz / 64QAM



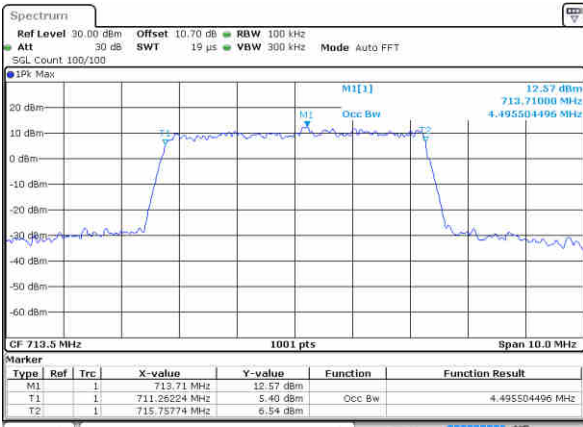
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Middle Channel / 10MHz / 64QAM



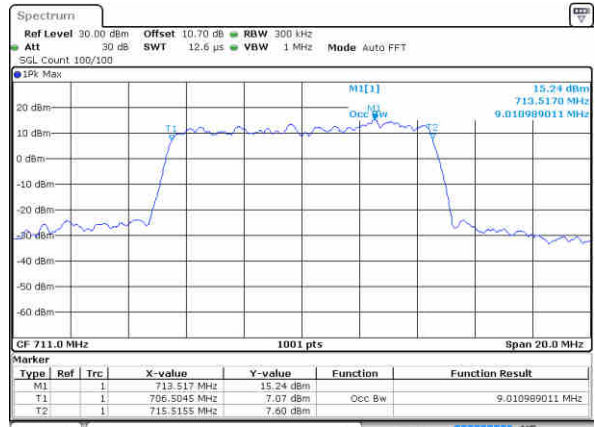
Date: 2.OCT.2017 00:56:40

Highest Channel / 5MHz / 64QAM



Date: 2.OCT.2017 00:49:37

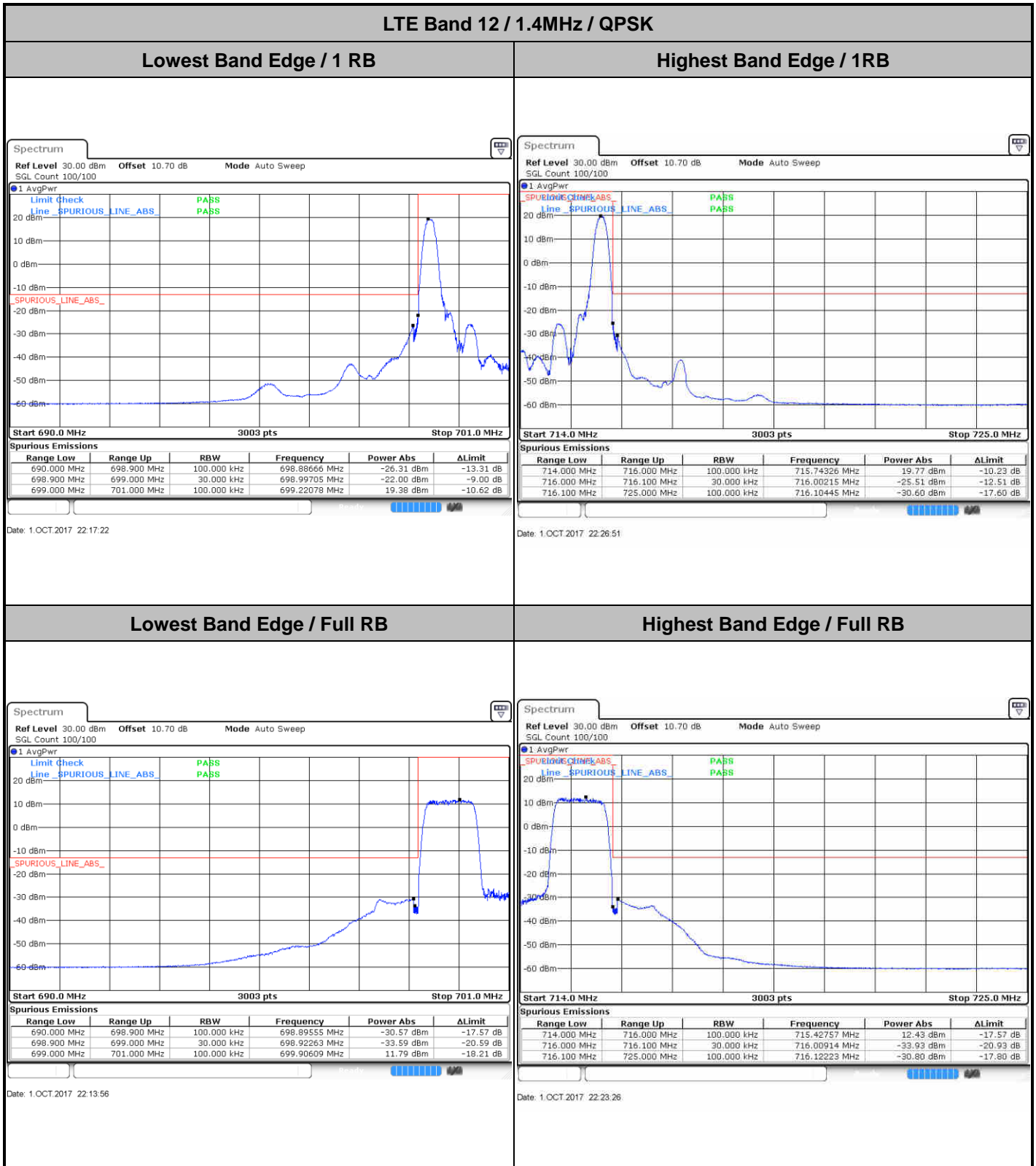
Highest Channel / 10MHz / 64QAM



Date: 2.OCT.2017 00:57:53



Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



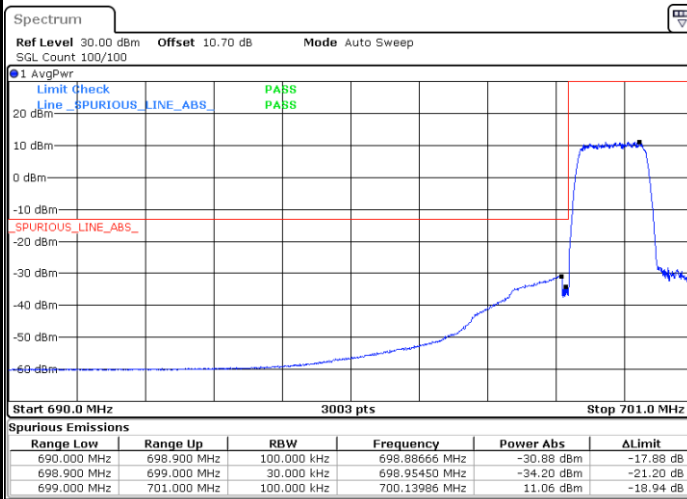
Date: 1.OCT.2017 22:16:13

Highest Band Edge / 1 RB



Date: 1.OCT.2017 22:25:43

Lowest Band Edge / Full RB



Date: 1.OCT.2017 22:15:05

Highest Band Edge / Full RB

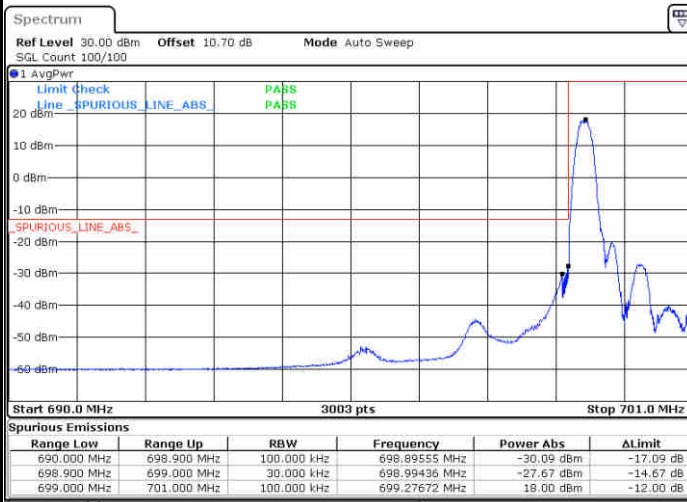


Date: 1.OCT.2017 22:24:34



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



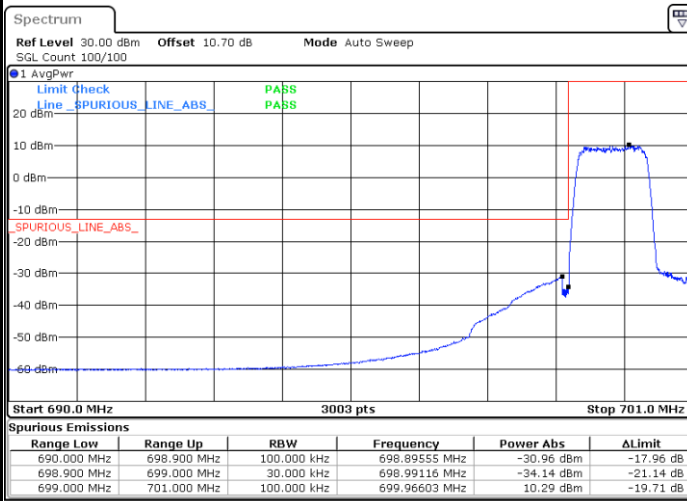
Date: 2.OCT.2017 01:03:51

Highest Band Edge / 1 RB



Date: 2.OCT.2017 01:08:36

Lowest Band Edge / Full RB



Date: 2.OCT.2017 01:02:43

Highest Band Edge / Full RB

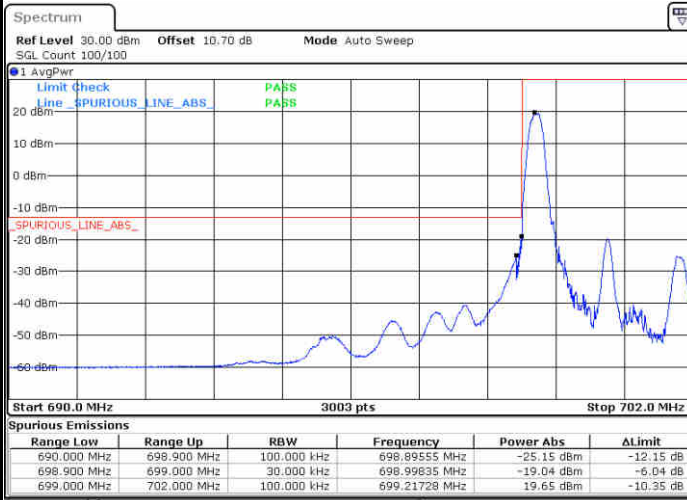


Date: 2.OCT.2017 01:07:27



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



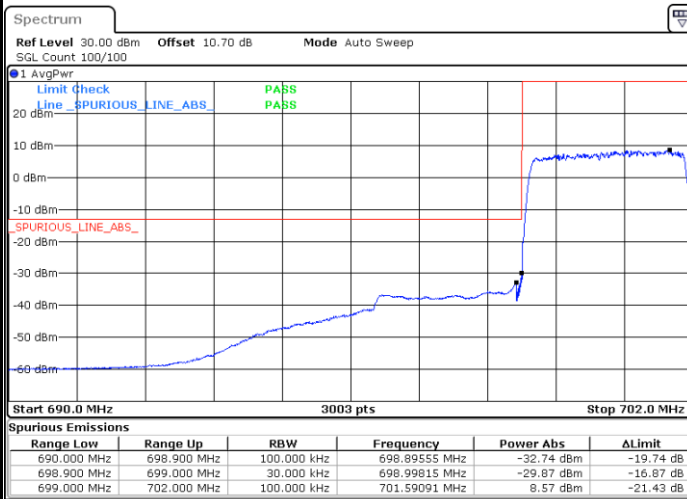
Date: 1.OCT.2017 20:32:47

Highest Band Edge / 1 RB



Date: 1.OCT.2017 20:42:17

Lowest Band Edge / Full RB



Date: 1.OCT.2017 20:29:21

Highest Band Edge / Full RB

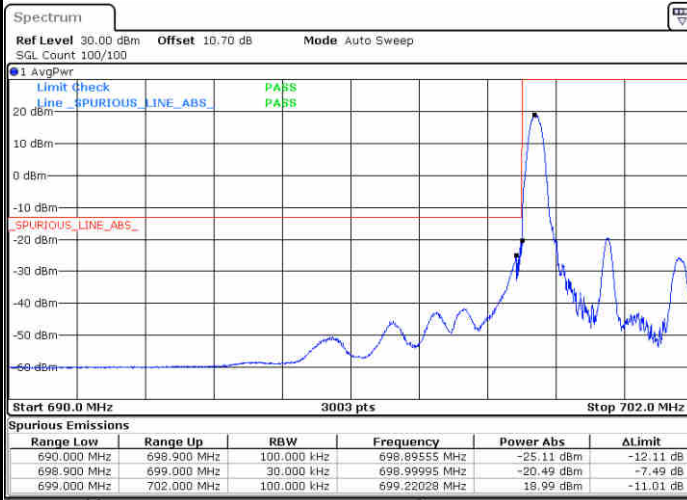


Date: 1.OCT.2017 20:38:51



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



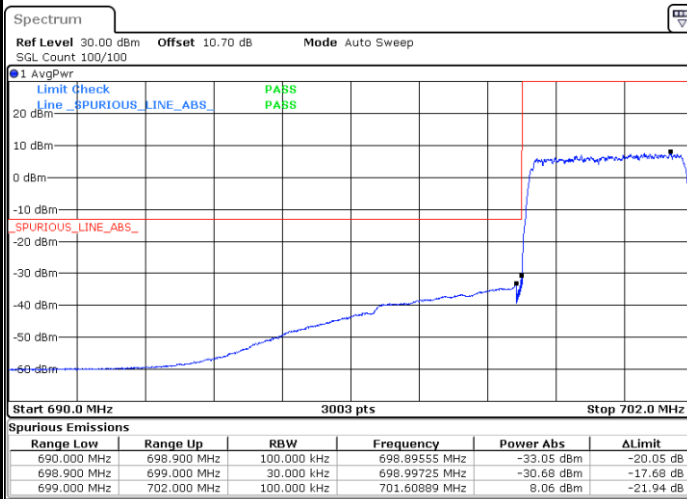
Date: 1.OCT.2017 20:31:39

Highest Band Edge / 1 RB



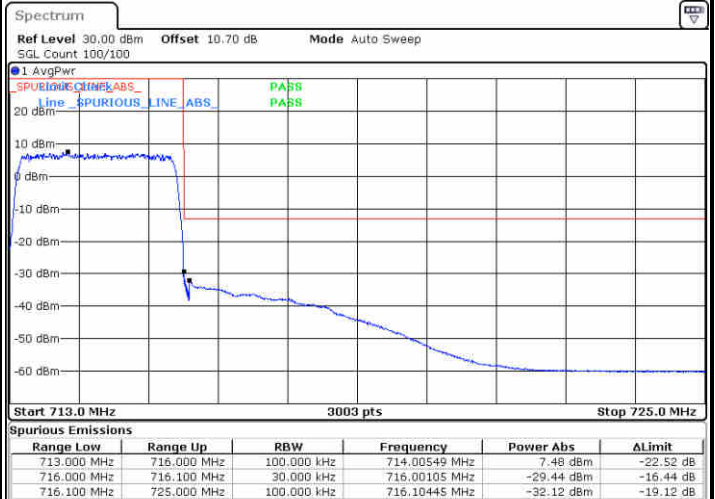
Date: 1.OCT.2017 20:41:09

Lowest Band Edge / Full RB



Date: 1.OCT.2017 20:30:30

Highest Band Edge / Full RB

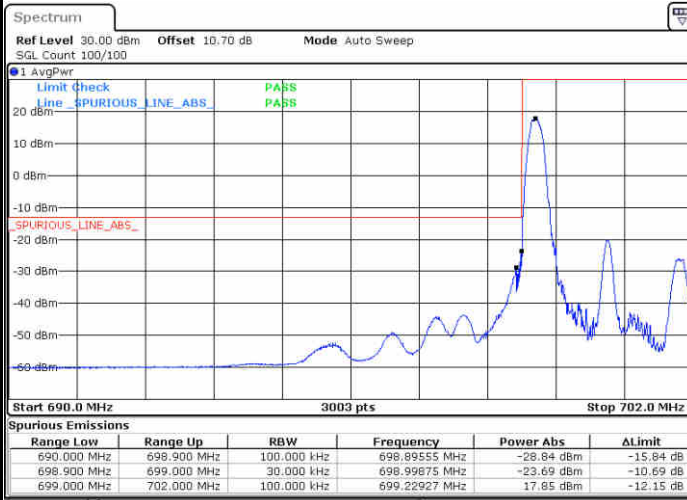


Date: 1.OCT.2017 20:40:00



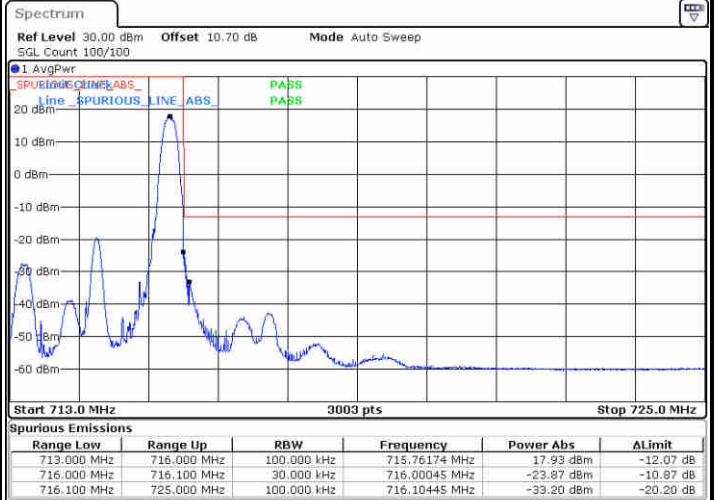
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



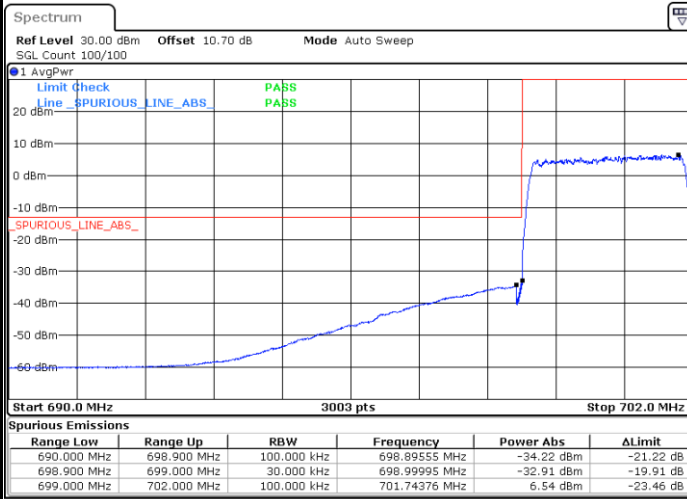
Date: 2.OCT.2017 00:39:03

Highest Band Edge / 1 RB



Date: 2.OCT.2017 00:43:48

Lowest Band Edge / Full RB



Date: 2.OCT.2017 00:37:54

Highest Band Edge / Full RB

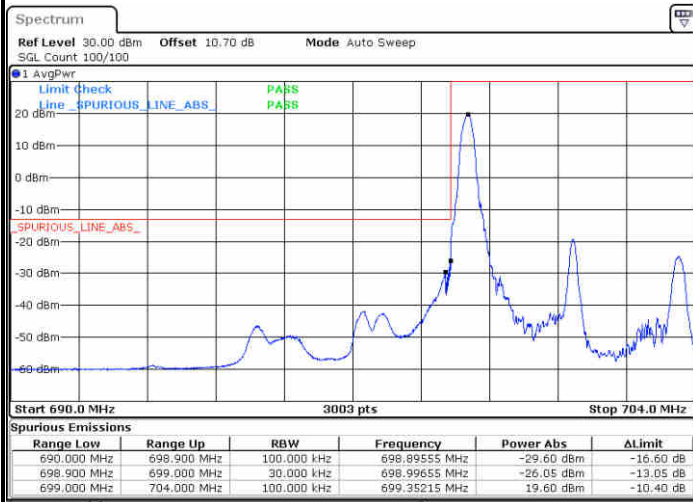


Date: 2.OCT.2017 00:42:39



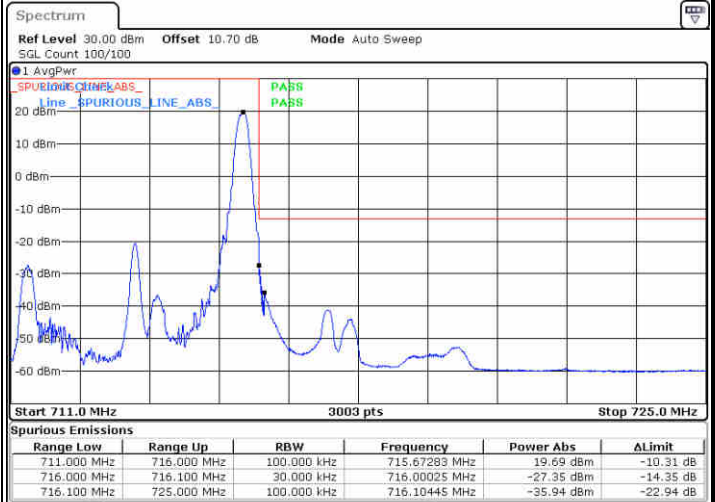
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



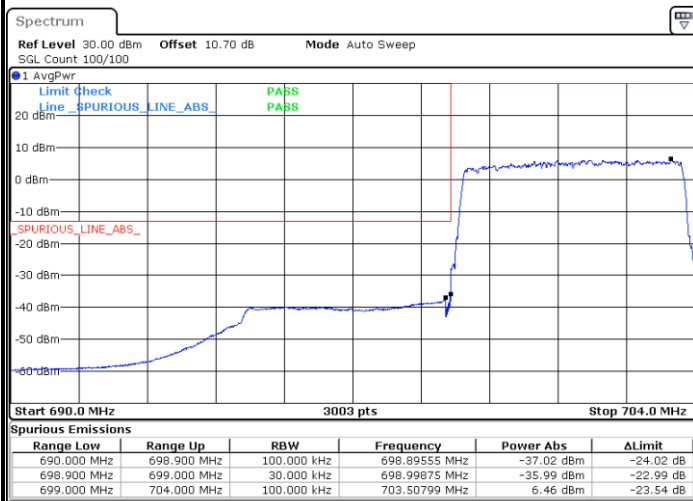
Date: 1.OCT.2017 20:49:20

Highest Band Edge / 1 RB



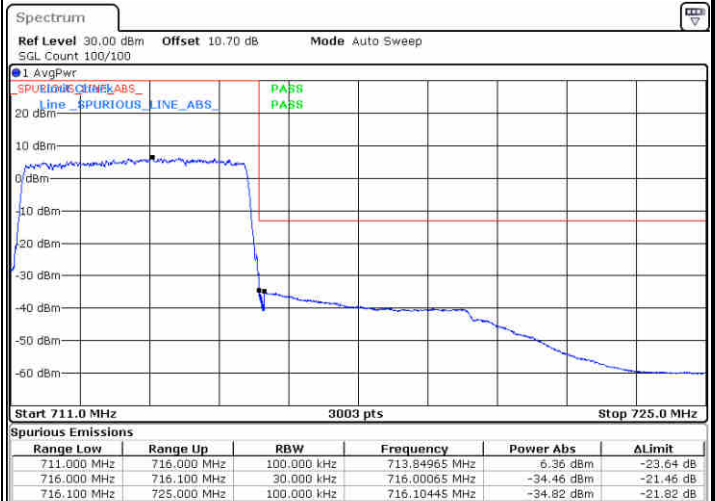
Date: 1.OCT.2017 20:57:41

Lowest Band Edge / Full RB



Date: 1.OCT.2017 20:45:54

Highest Band Edge / Full RB

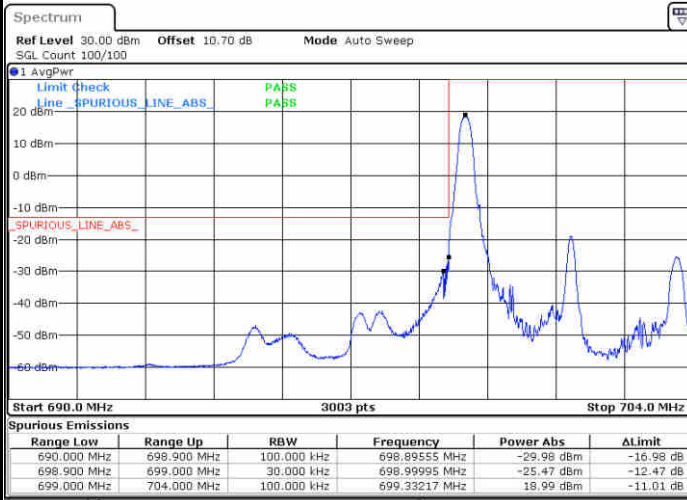


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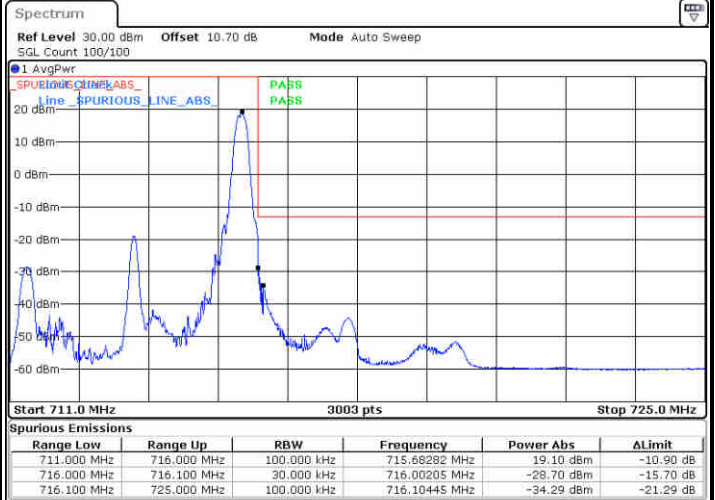
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



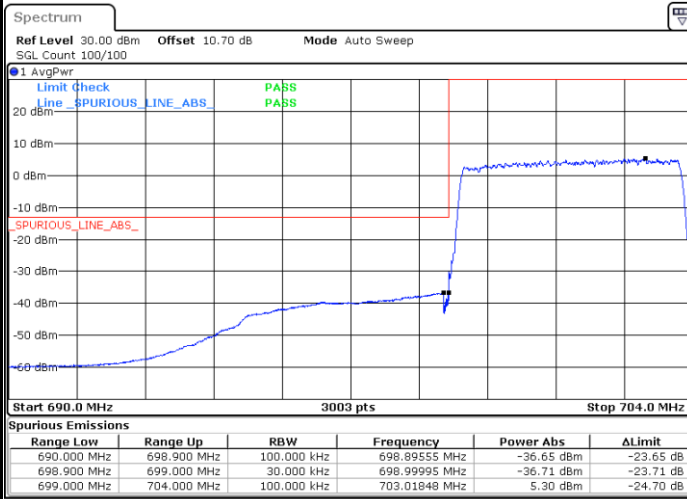
Date: 1.OCT.2017 20:48:11

Highest Band Edge / 1 RB



Date: 1.OCT.2017 20:58:50

Lowest Band Edge / Full RB



Date: 1.OCT.2017 20:47:02

Highest Band Edge / Full RB

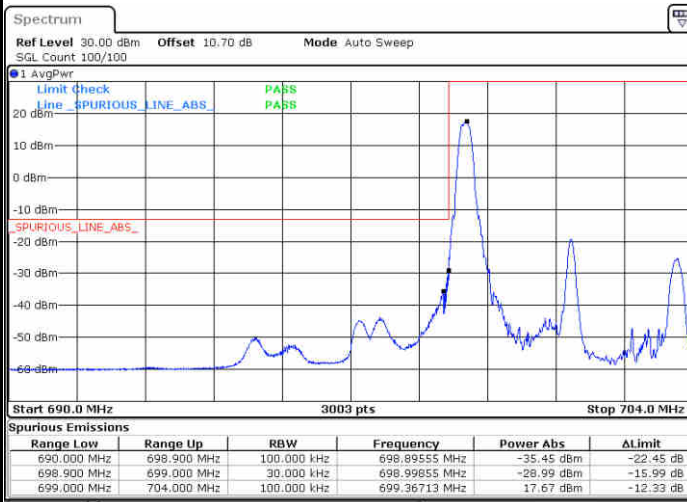


Date: 1.OCT.2017 20:56:32



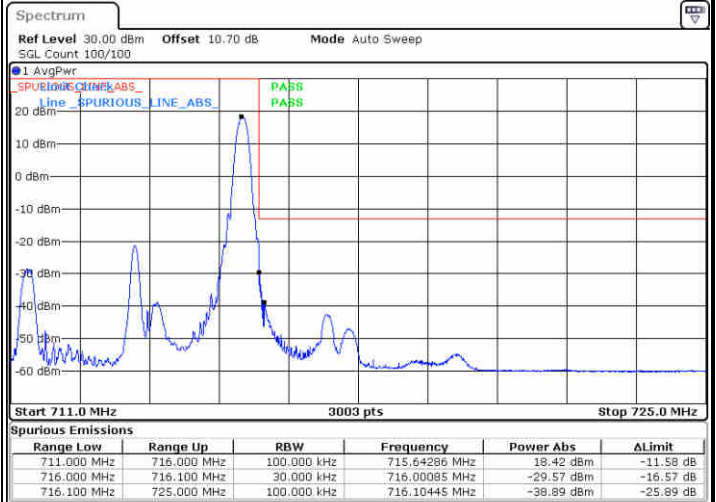
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



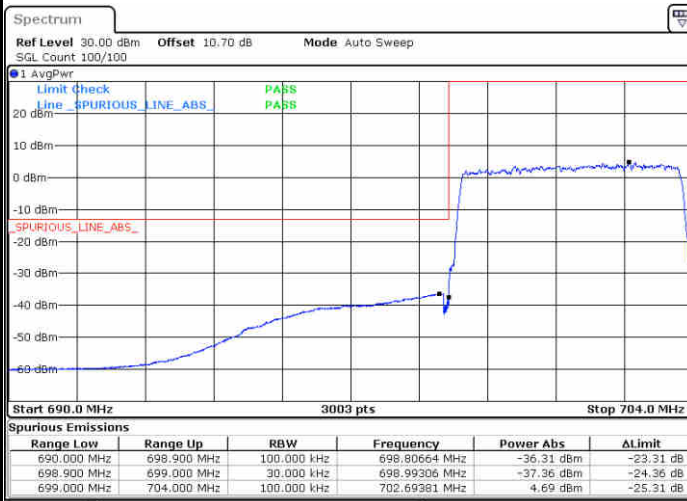
Date: 2.OCT.2017 00:47:19

Highest Band Edge / 1 RB



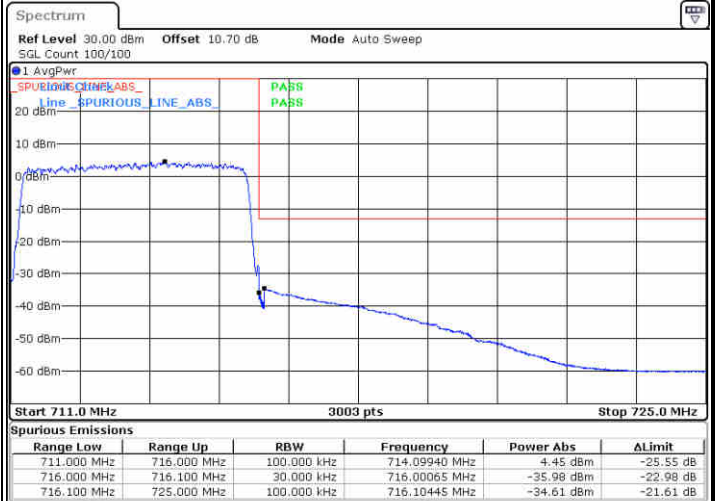
Date: 2.OCT.2017 00:52:04

Lowest Band Edge / Full RB



Date: 2.OCT.2017 00:46:10

Highest Band Edge / Full RB

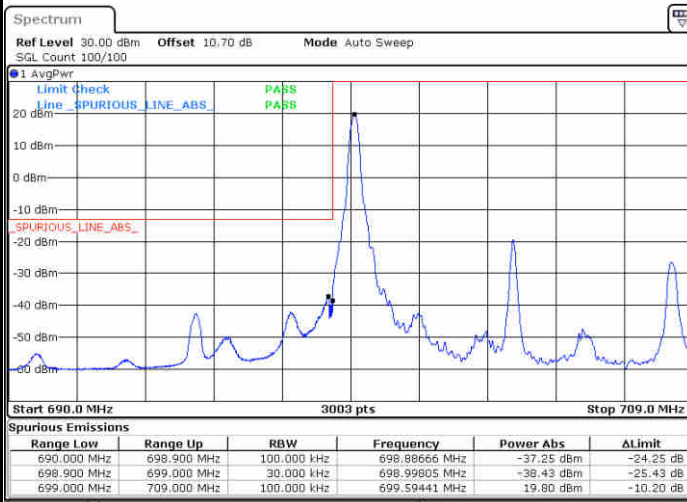


Date: 2.OCT.2017 00:50:55



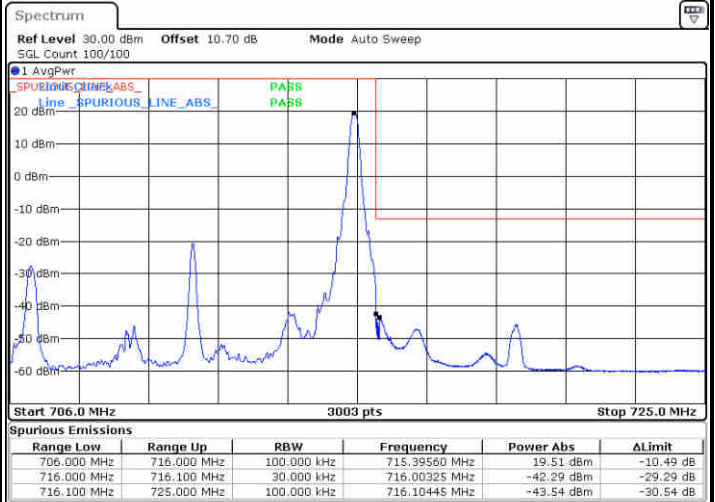
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



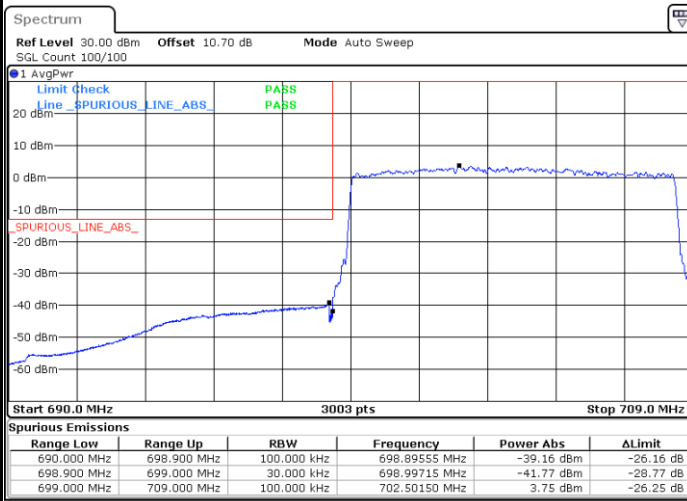
Date: 1.OCT.2017 21:05:52

Highest Band Edge / 1 RB



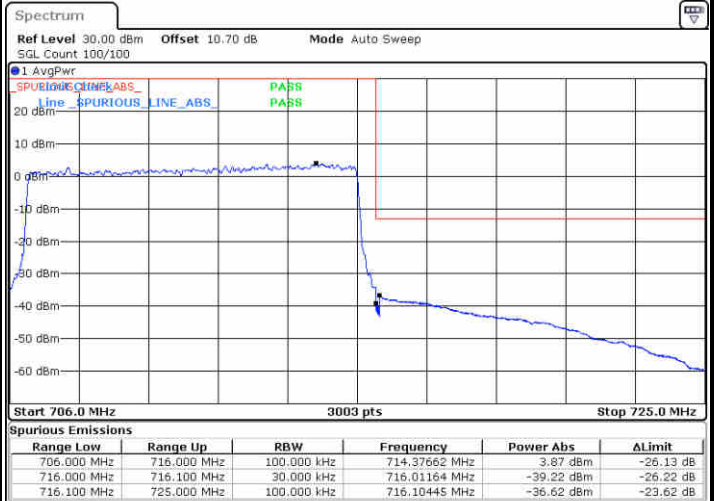
Date: 1.OCT.2017 21:15:22

Lowest Band Edge / Full RB



Date: 1.OCT.2017 21:02:26

Highest Band Edge / Full RB



Date: 1.OCT.2017 21:11:56