

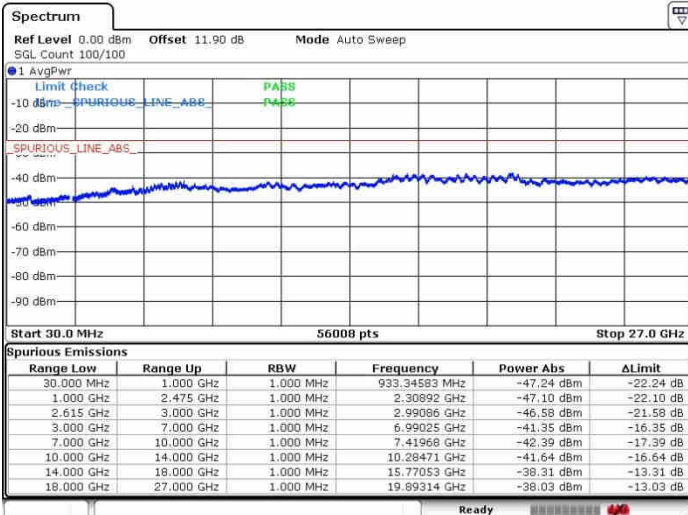


LTE Band 7 / 20MHz+15MHz

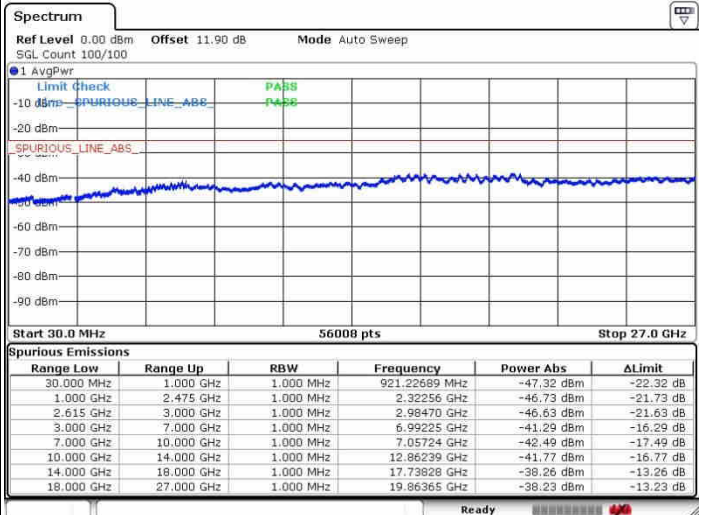
64QAM

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0



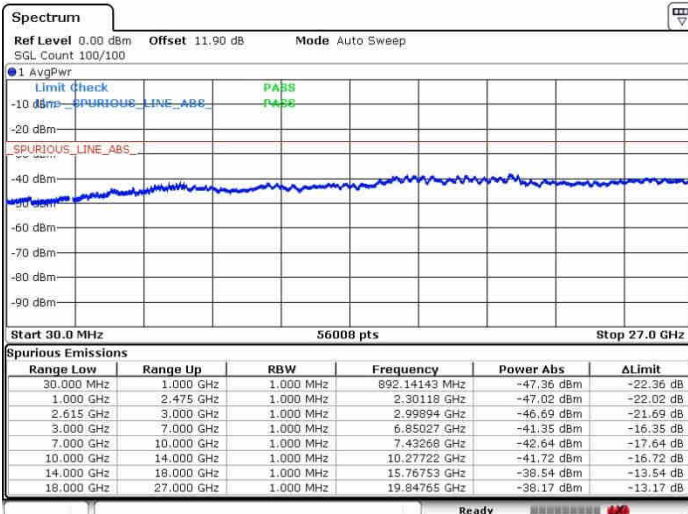
Date: 27.SEP.2017 17:40:48



Date: 27.SEP.2017 17:48:38

Lowest Channel / FullIRB

N/A



Date: 27.SEP.2017 17:37:41

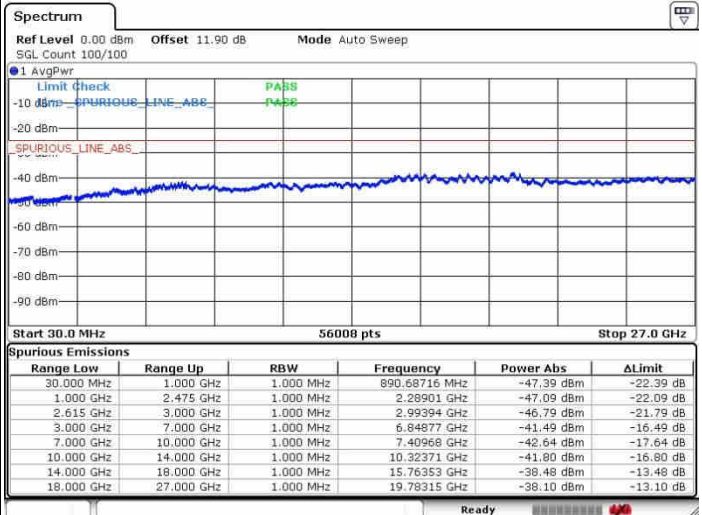
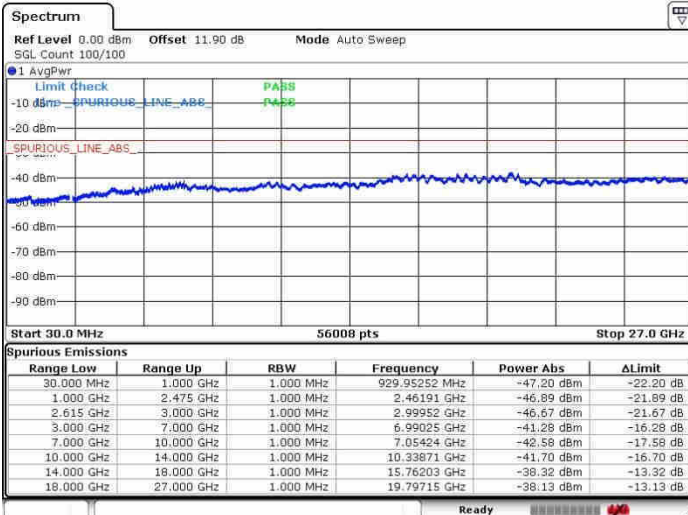


LTE Band 7 / 20MHz+15MHz

64QAM

Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0

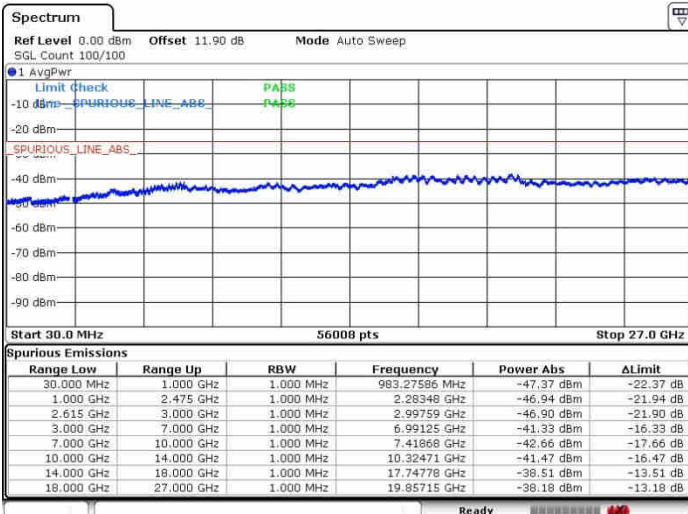


Date: 27.SEP.2017 17:55:48

Date: 27.SEP.2017 17:53:17

Middle Channel / FullIRB

N/A



Date: 27.SEP.2017 17:57:46

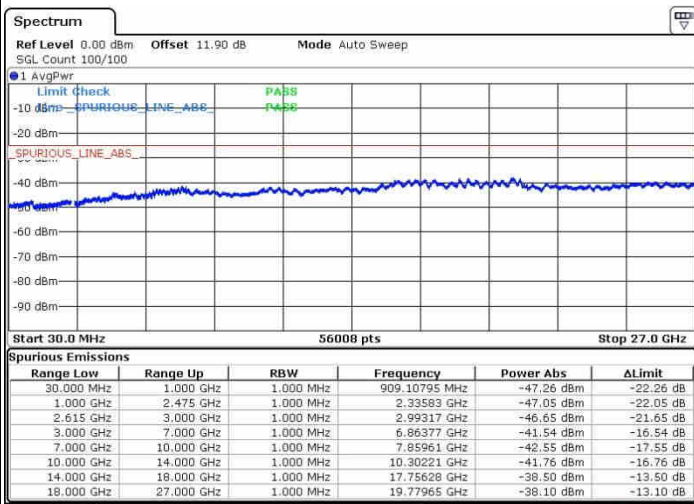
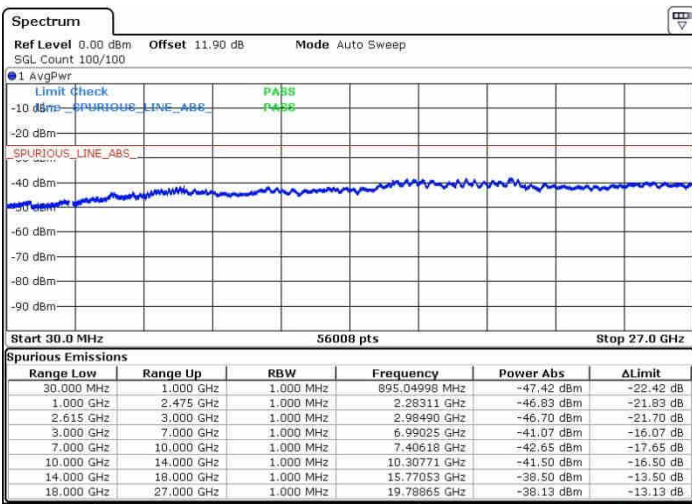


LTE Band 7 / 20MHz+15MHz

64QAM

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0

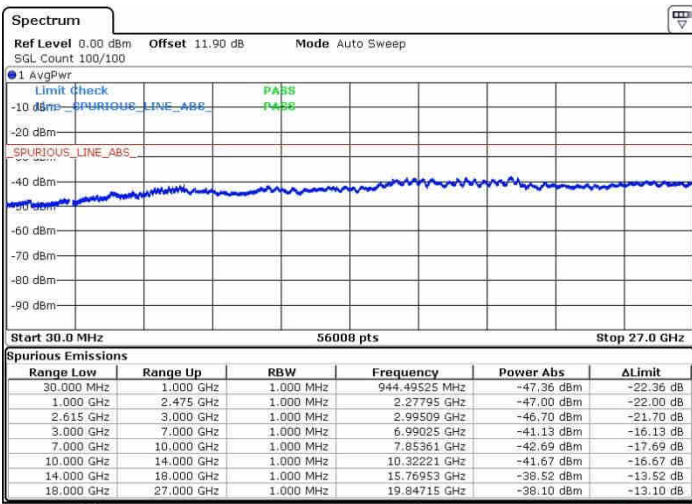


Date: 27.SEP.2017 18:05:48

Date: 27.SEP.2017 18:05:04

Highest Channel / FullRB

N/A



Date: 27.SEP.2017 18:00:54

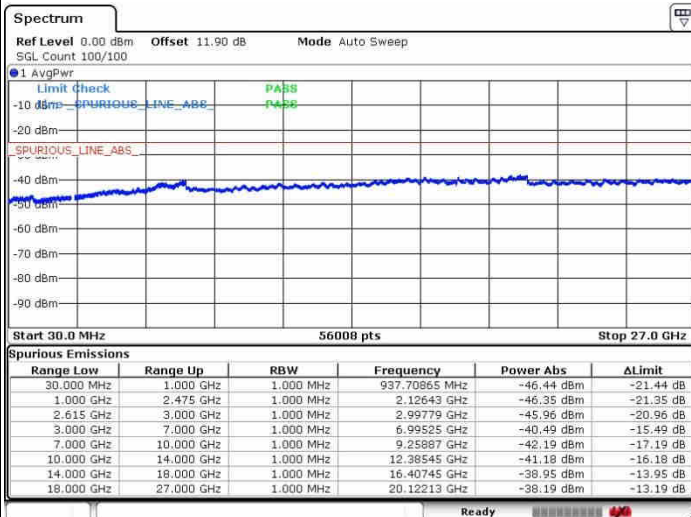
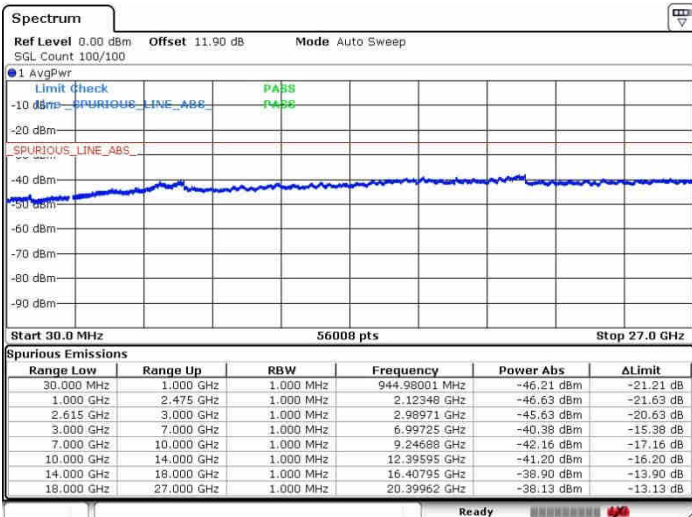


LTE Band 7 / 20MHz+20MHz

64QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0

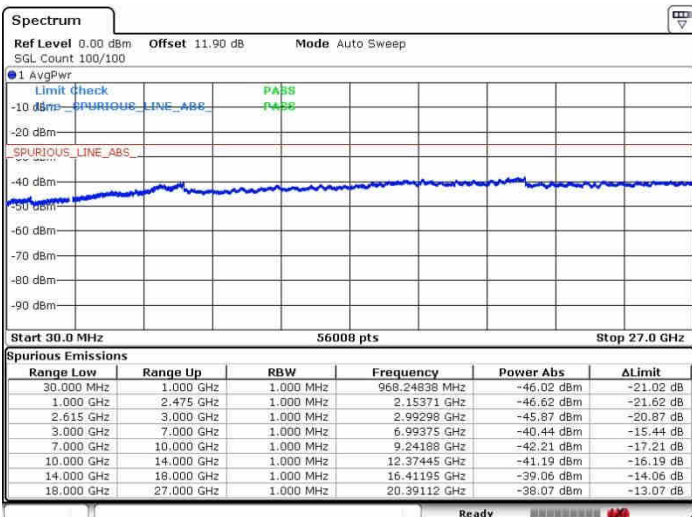


Date: 28.SEP.2017 09:03:29

Date: 28.SEP.2017 09:05:58

Lowest Channel / FullIRB

N/A



Date: 28.SEP.2017 09:00:47

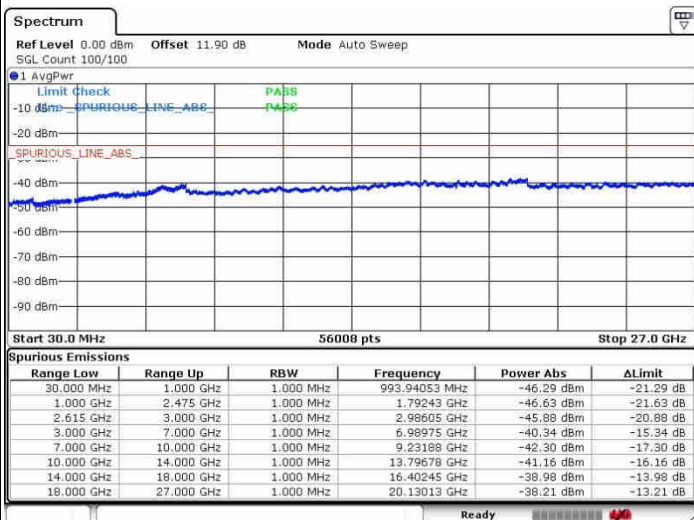
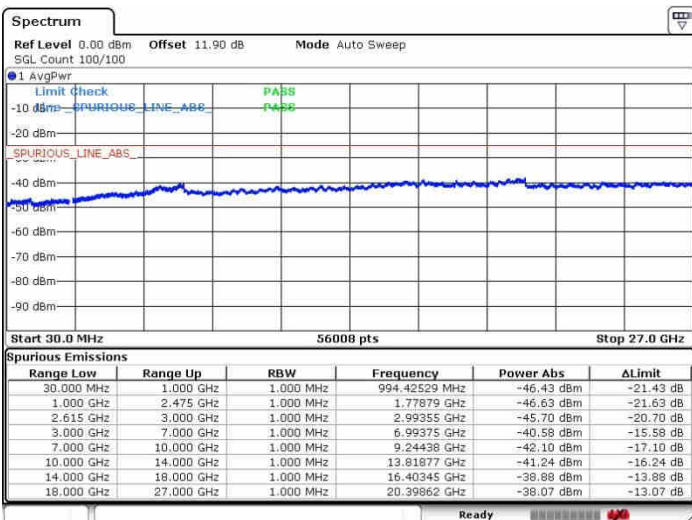


LTE Band 7 / 20MHz+20MHz

64QAM

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0

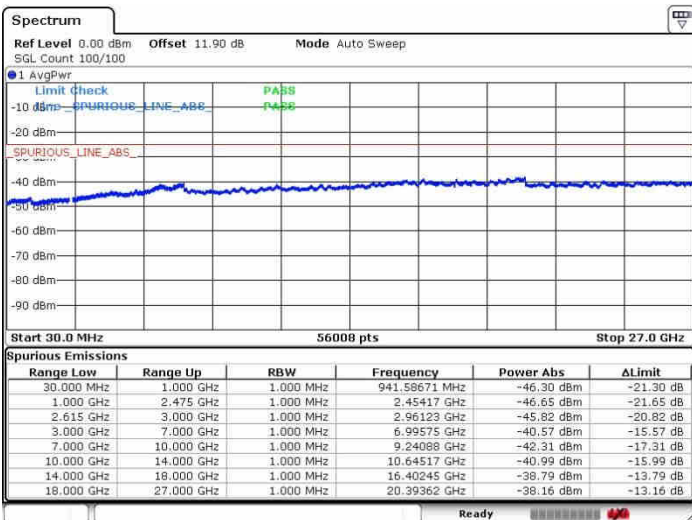


Date: 26.SEP.2017 09:11:07

Date: 26.SEP.2017 09:12:20

Middle Channel / FullIRB

N/A



Date: 26.SEP.2017 09:08:30

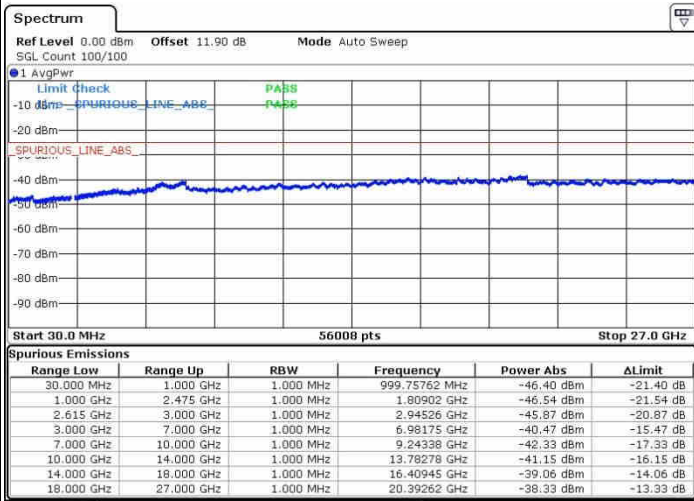
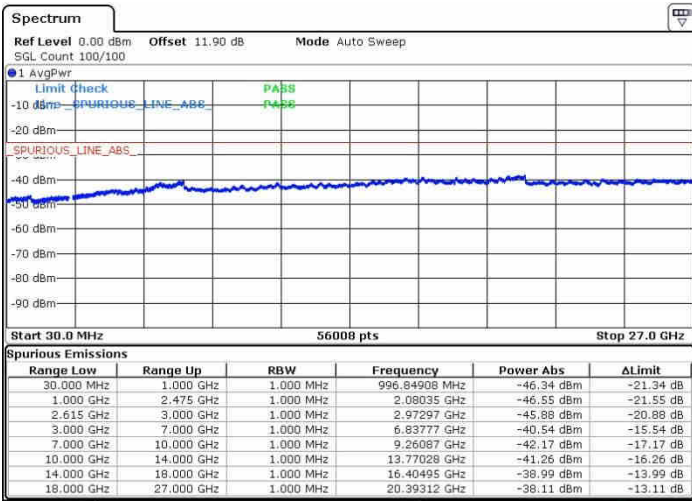


LTE Band 7 / 20MHz+20MHz

64QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0

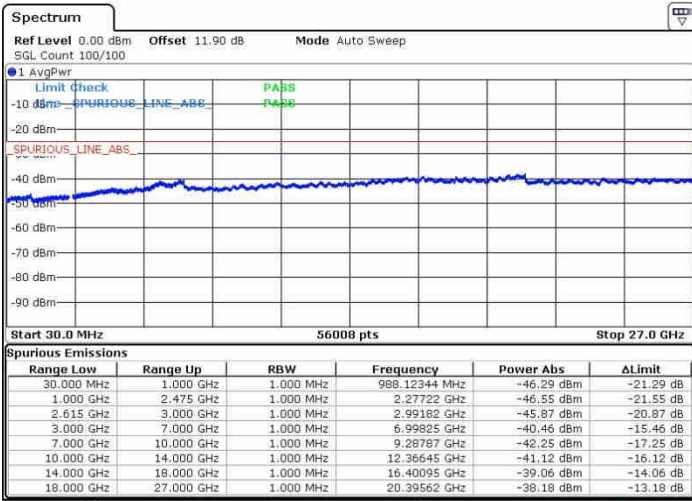


Date: 26.SEP.2017 09:22:56

Date: 26.SEP.2017 09:28:16

Highest Channel / FullRB

N/A



Date: 26.SEP.2017 09:19:58



# LTE Band 12

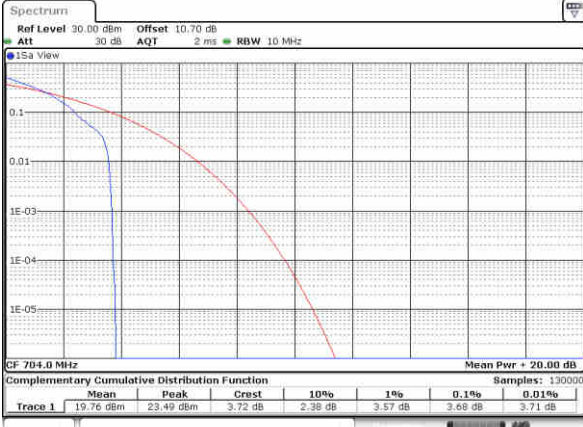
## Peak-to-Average Ratio

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	-	-	



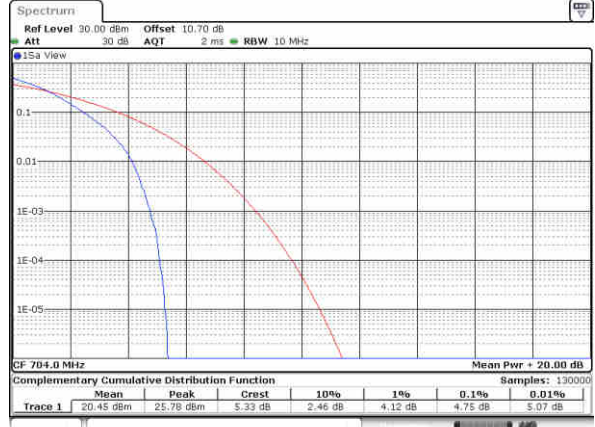
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



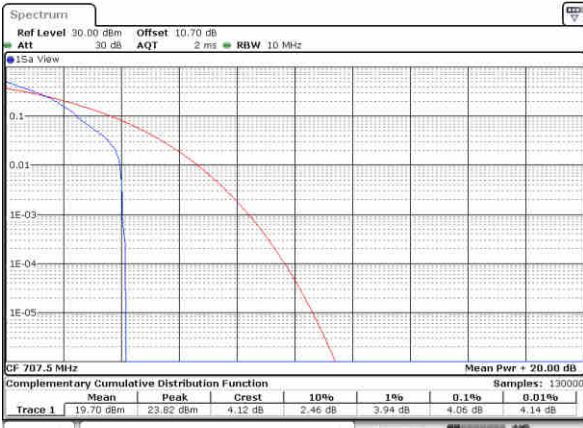
Date: 2.OCT.2017 00:00:07

Lowest Channel / Full RB



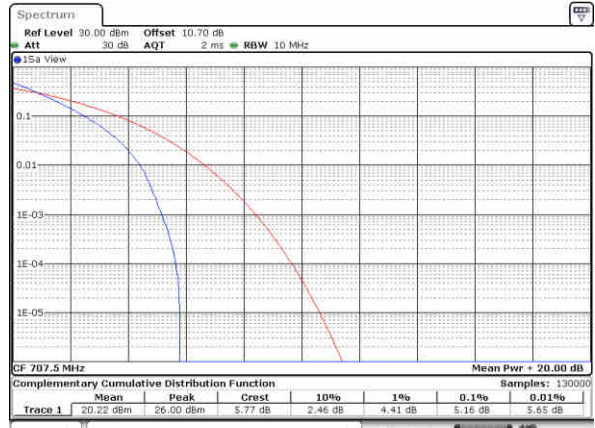
Date: 1.OCT.2017 23:59:59

Middle Channel / 1RB



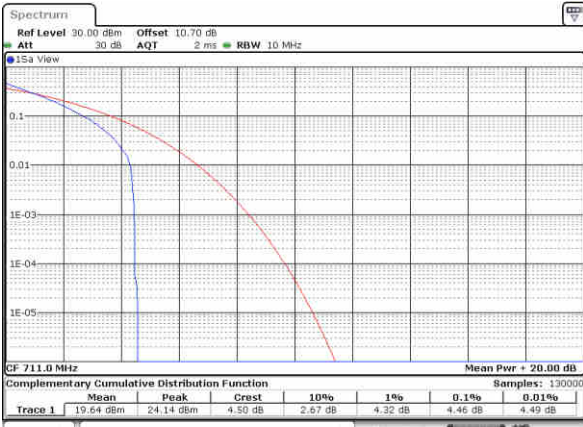
Date: 2.OCT.2017 00:00:16

Middle Channel / Full RB



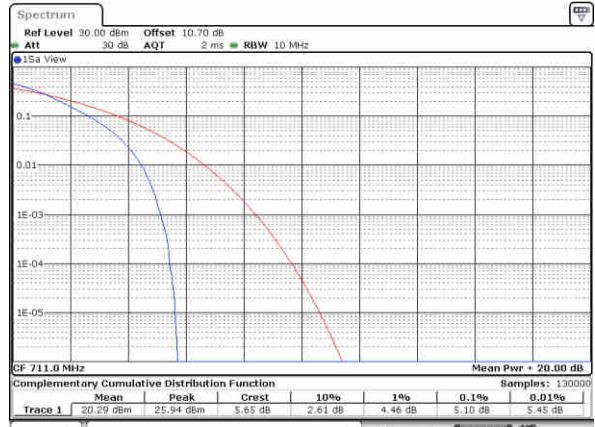
Date: 2.OCT.2017 00:00:49

Highest Channel / 1RB



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

Highest Channel / Full RB



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





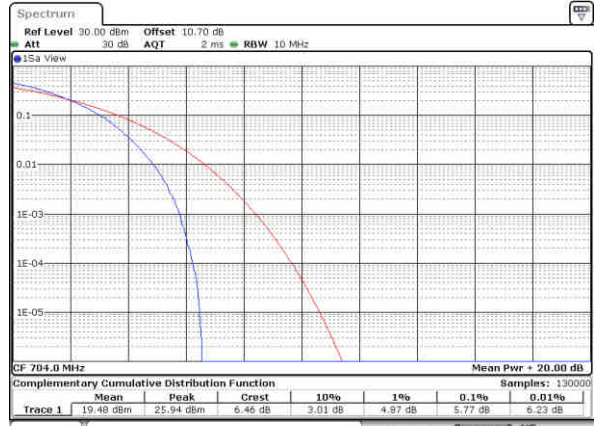
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



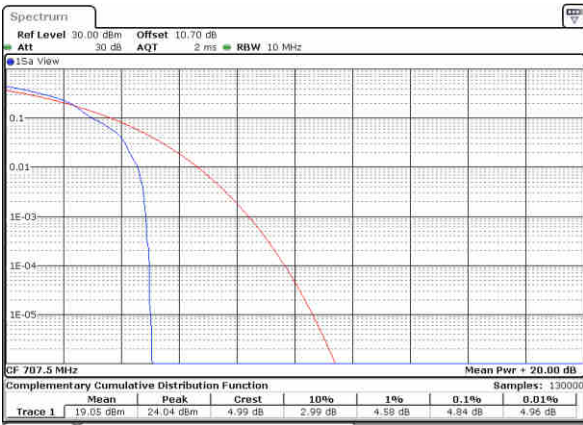
Date: 1.OCT.2017 23:58:15

Lowest Channel / Full RB



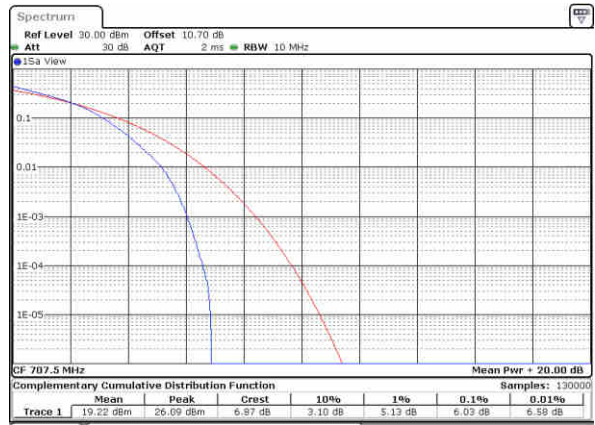
Date: 1.OCT.2017 23:58:05

Middle Channel / 1RB



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

Middle Channel / Full RB



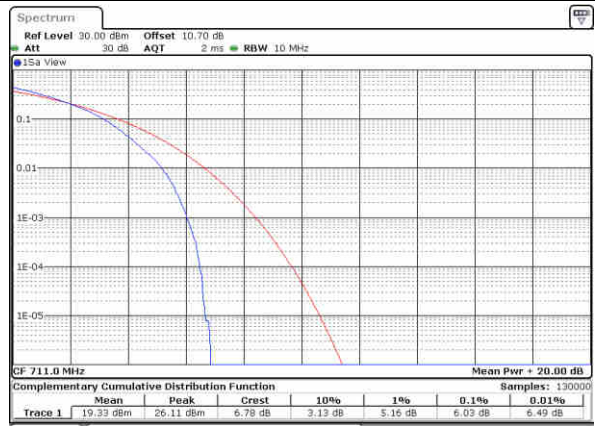
Date: 1.OCT.2017 23:59:30

Highest Channel / 1RB



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

Highest Channel / Full RB

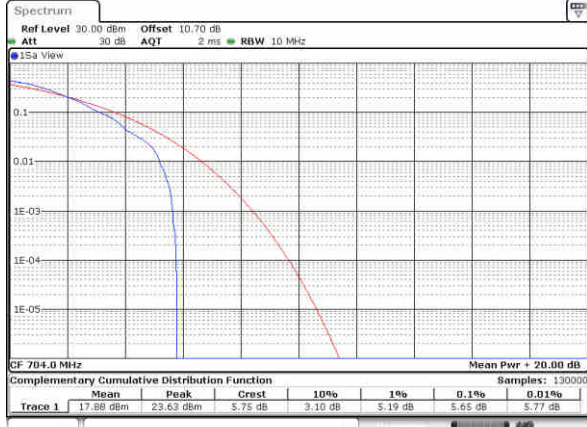


Date: 1.OCT.2017 23:59:41



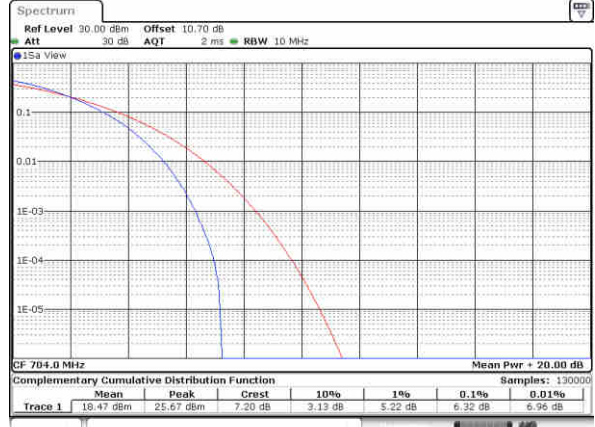
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



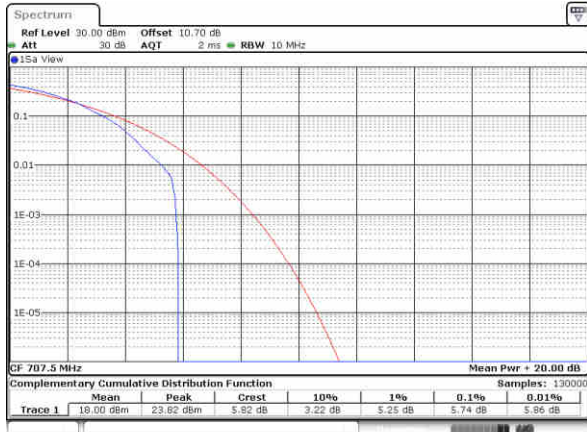
Date: 2.OCT.2017 01:11:24

Lowest Channel / Full RB



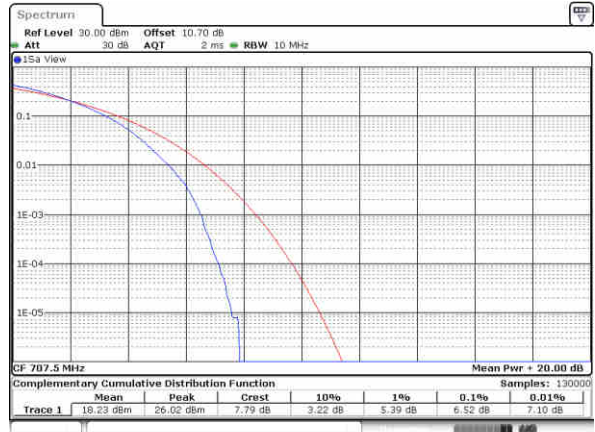
Date: 2.OCT.2017 01:11:11

Middle Channel / 1RB



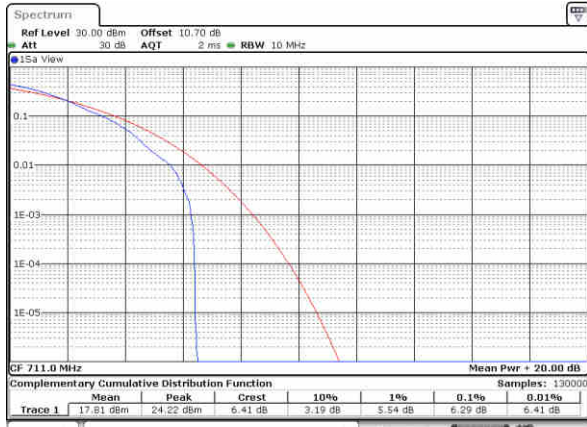
Date: 2.OCT.2017 01:11:33

Middle Channel / Full RB



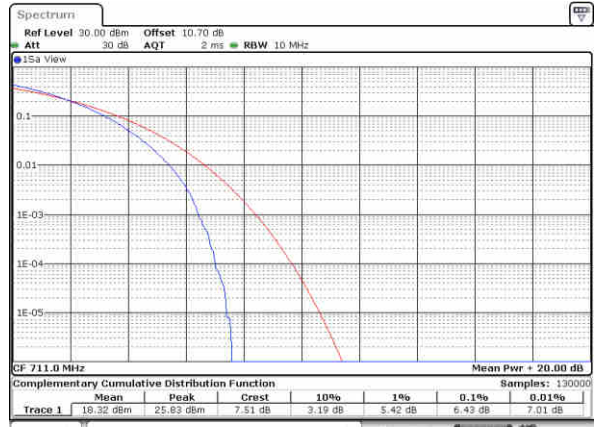
Date: 2.OCT.2017 01:11:45

Highest Channel / 1RB



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

Highest Channel / Full RB



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



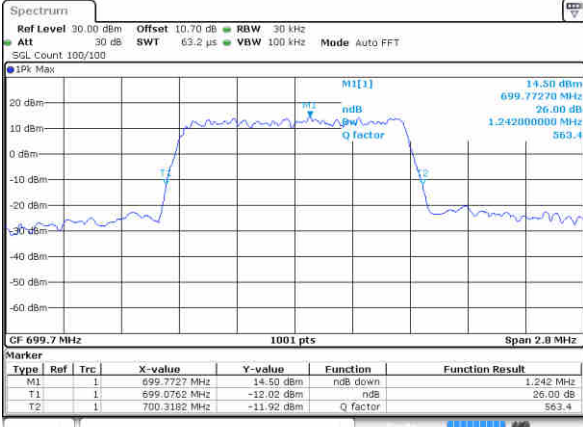
**26dB Bandwidth**

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	-	-	-	-	-



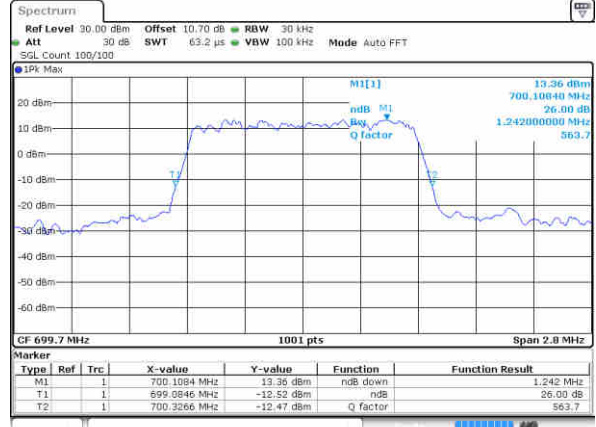
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



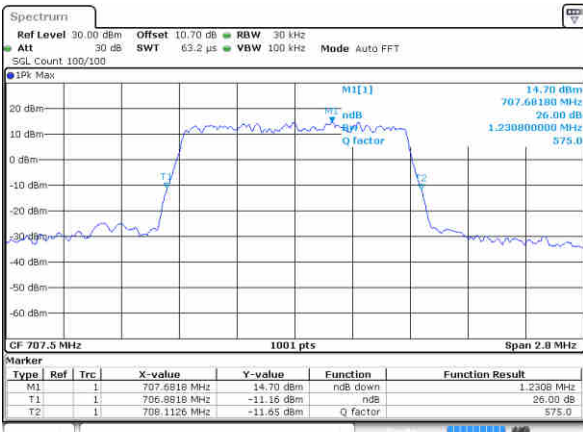
Date: 1.OCT.2017 22:12:48

Lowest Channel / 1.4MHz / 16QAM



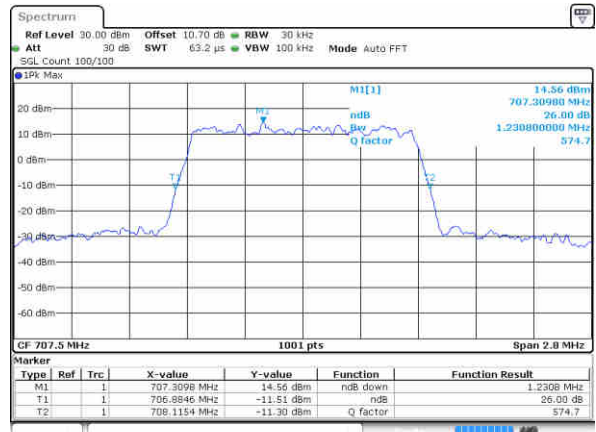
Date: 1.OCT.2017 22:12:38

Middle Channel / 1.4MHz / QPSK



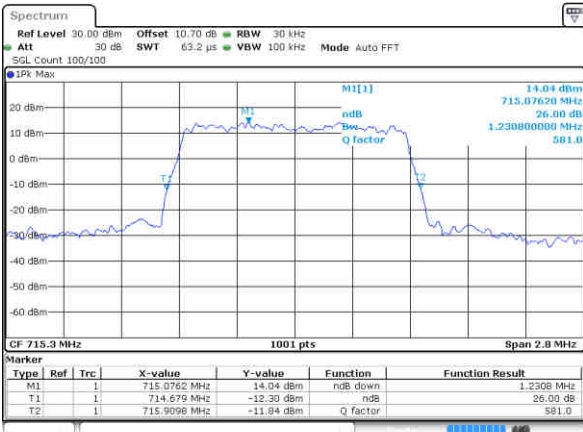
Date: 1.OCT.2017 22:19:40

Middle Channel / 1.4MHz / 16QAM



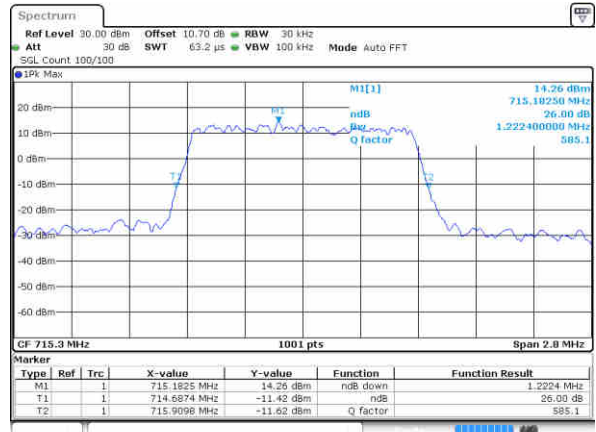
Date: 1.OCT.2017 22:19:50

Highest Channel / 1.4MHz / QPSK



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

Highest Channel / 1.4MHz / 16QAM

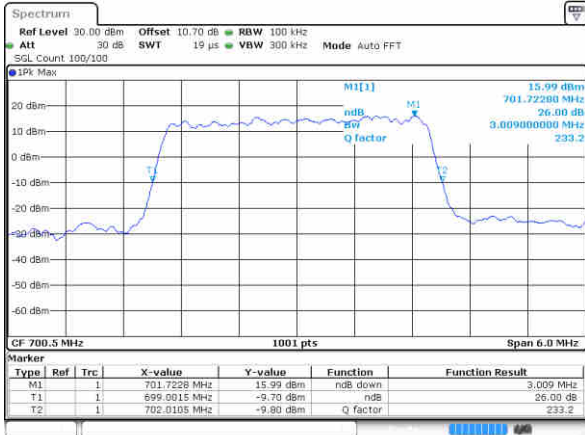


Date: 1.OCT.2017 22:22:07



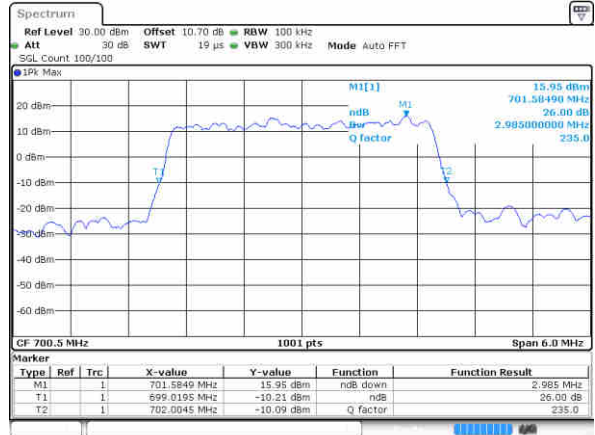
LTE Band 12

Lowest Channel / 3MHz / QPSK



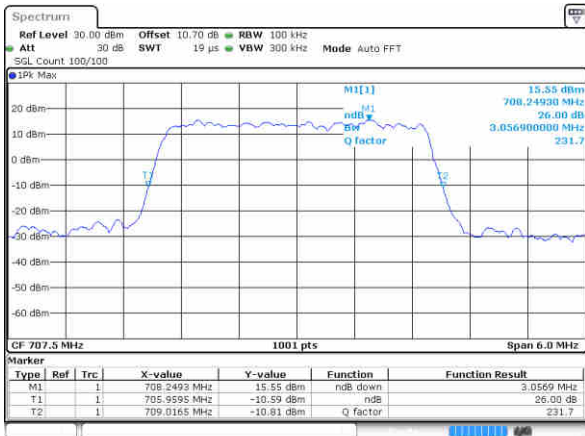
Date: 1.OCT.2017 20:28:13

Lowest Channel / 3MHz / 16QAM



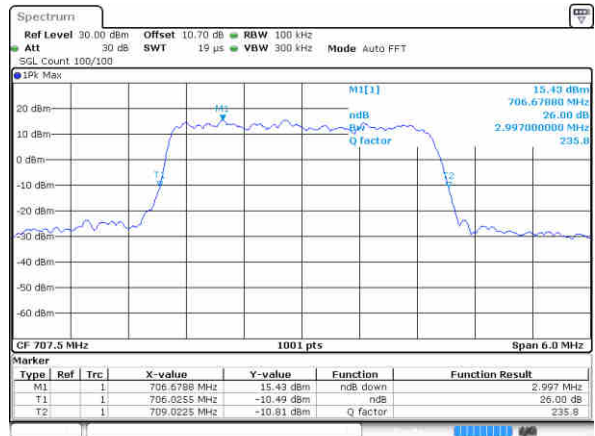
Date: 1.OCT.2017 20:28:53

Middle Channel / 3MHz / QPSK



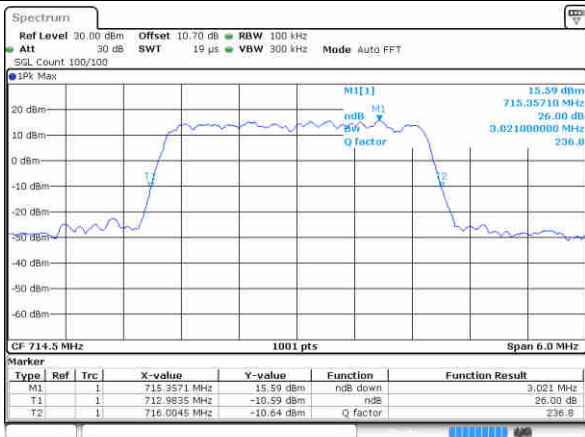
Date: 1.OCT.2017 20:35:05

Middle Channel / 3MHz / 16QAM



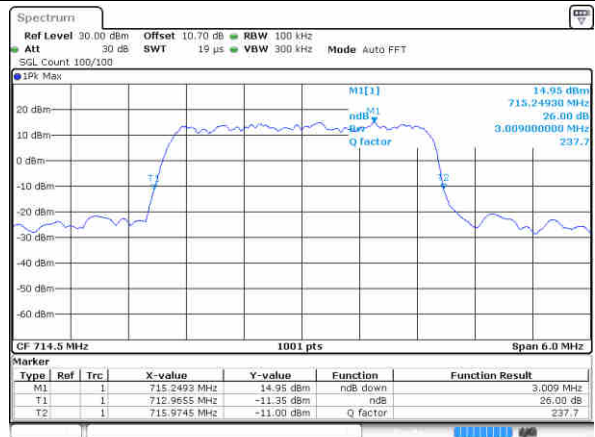
Date: 1.OCT.2017 20:35:15

Highest Channel / 3MHz / QPSK



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

Highest Channel / 3MHz / 16QAM

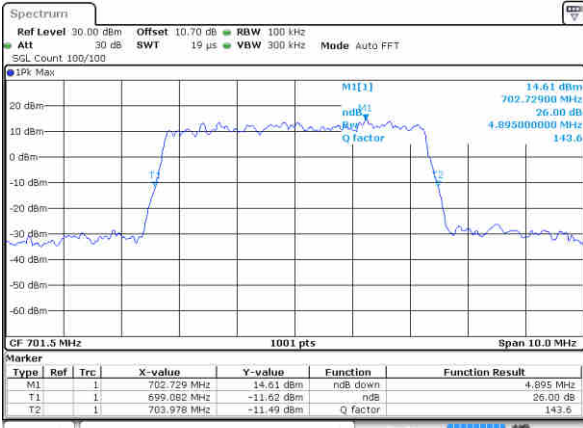


Date: 1.OCT.2017 20:37:33



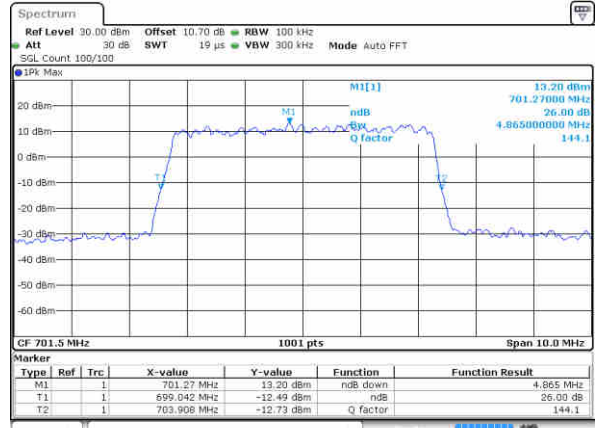
LTE Band 12

Lowest Channel / 5MHz / QPSK



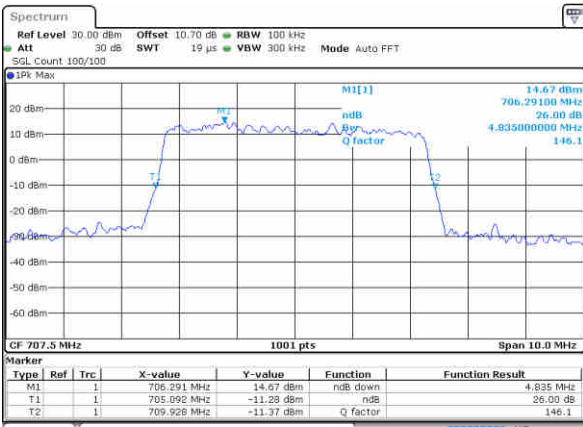
Date: 1.OCT.2017 20:44:45

Lowest Channel / 5MHz / 16QAM



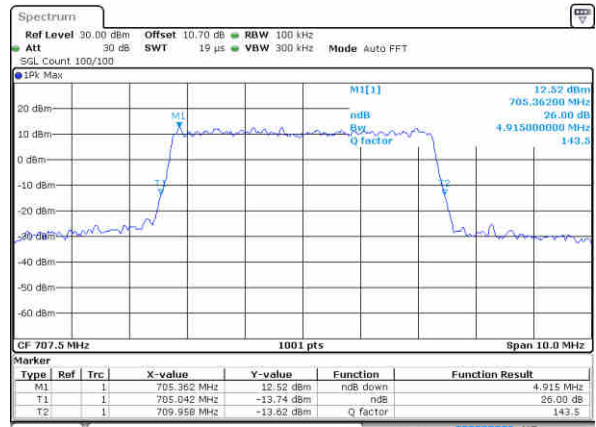
Date: 1.OCT.2017 20:44:35

Middle Channel / 5MHz / QPSK



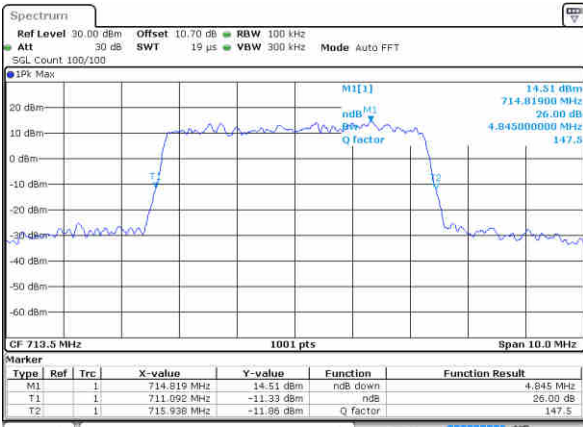
Date: 1.OCT.2017 20:51:38

Middle Channel / 5MHz / 16QAM



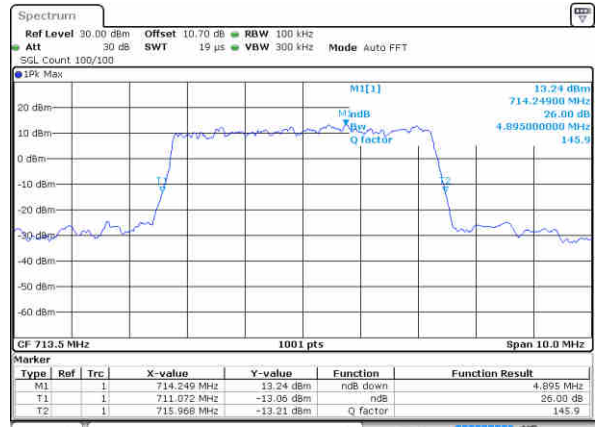
Date: 1.OCT.2017 20:51:45

Highest Channel / 5MHz / QPSK



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

Highest Channel / 5MHz / 16QAM

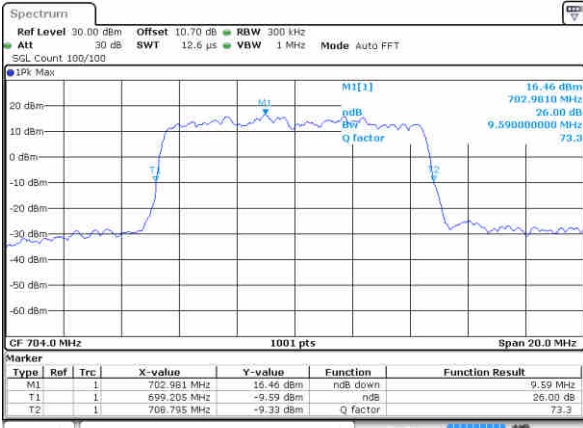


Date: 1.OCT.2017 20:54:05



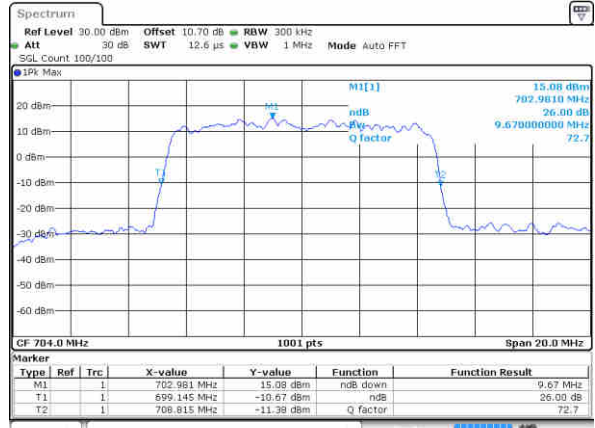
LTE Band 12

Lowest Channel / 10MHz / QPSK



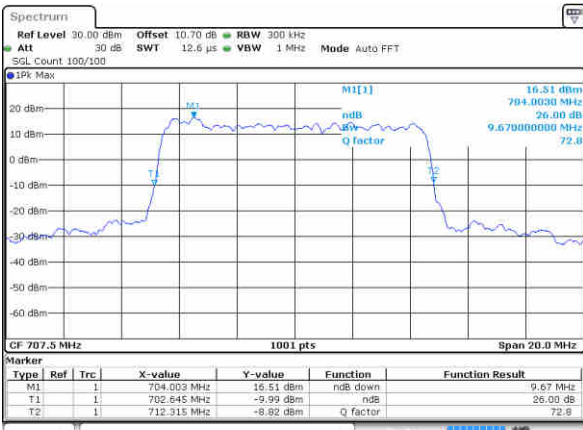
Date: 1.OCT.2017 21:01:18

Lowest Channel / 10MHz / 16QAM



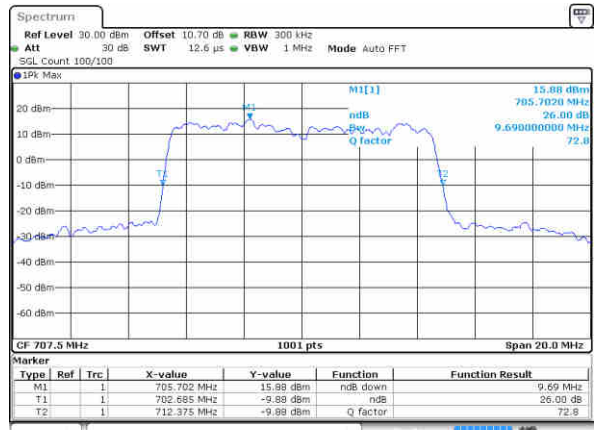
Date: 1.OCT.2017 21:01:08

Middle Channel / 10MHz / QPSK



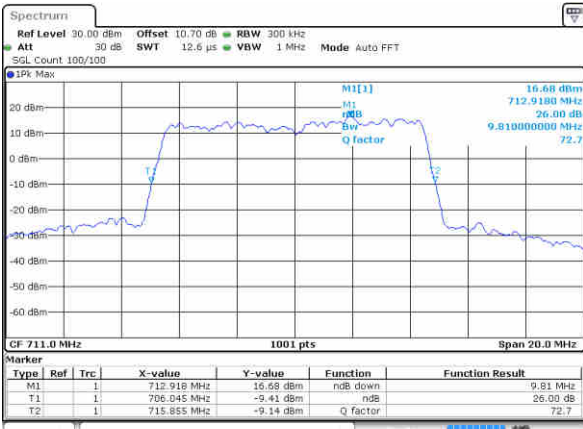
Date: 1.OCT.2017 21:08:10

Middle Channel / 10MHz / 16QAM



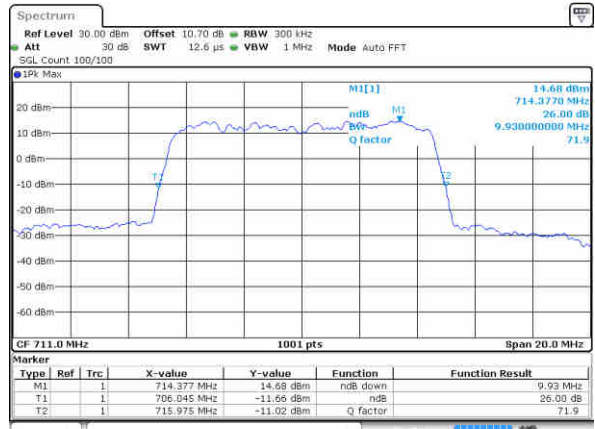
Date: 1.OCT.2017 21:08:20

Highest Channel / 10MHz / QPSK



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

Highest Channel / 10MHz / 16QAM

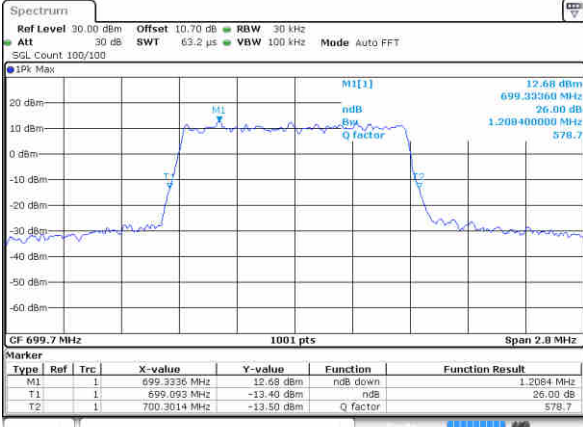


Date: 1.OCT.2017 21:10:37



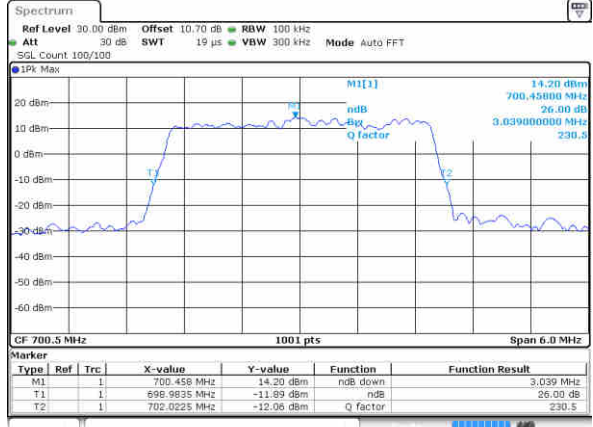
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



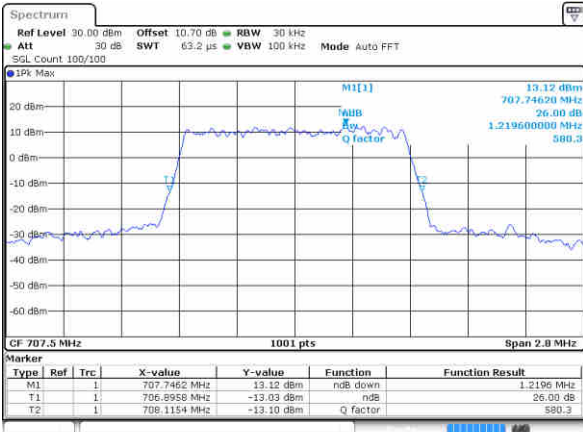
Date: 2.OCT.2017 01:01:34

Lowest Channel / 3MHz / 64QAM



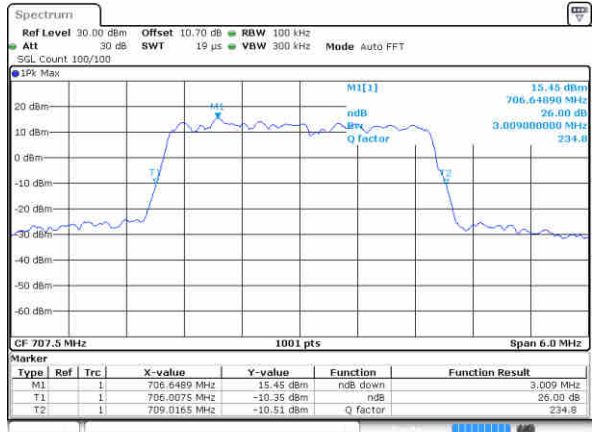
Date: 2.OCT.2017 00:36:46

Middle Channel / 1.4MHz / 64QAM



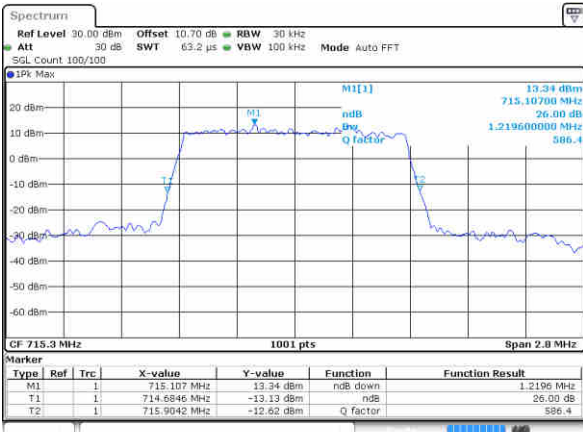
Date: 2.OCT.2017 01:05:05

Middle Channel / 3MHz / 64QAM



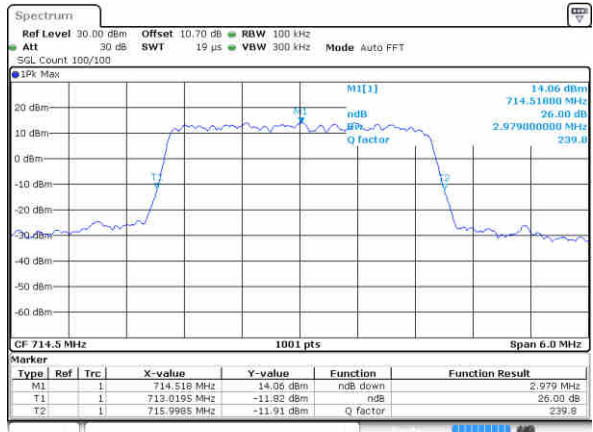
Date: 2.OCT.2017 00:40:17

Highest Channel / 1.4MHz / 64QAM



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

Highest Channel / 3MHz / 64QAM



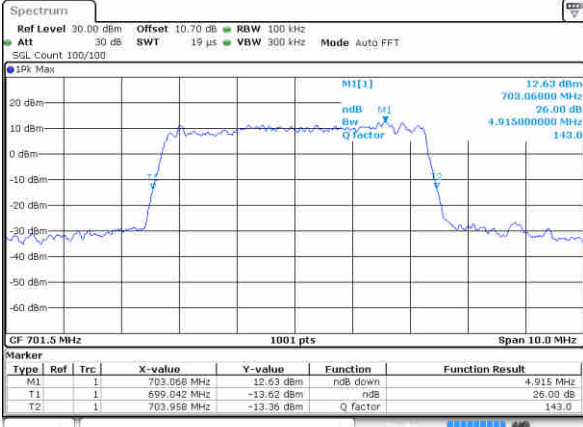
Date: 2.OCT.2017 00:41:31





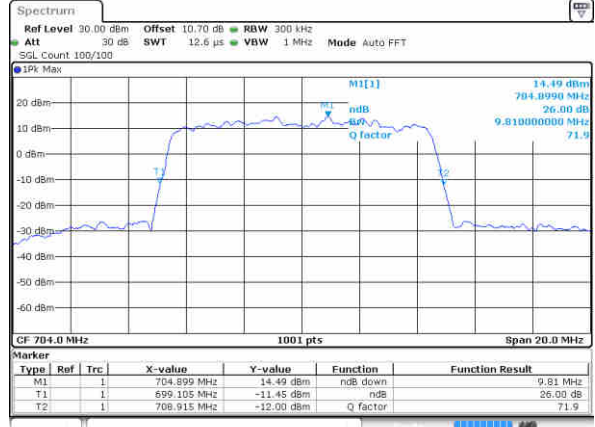
LTE Band 12

Lowest Channel / 5MHz / 64QAM



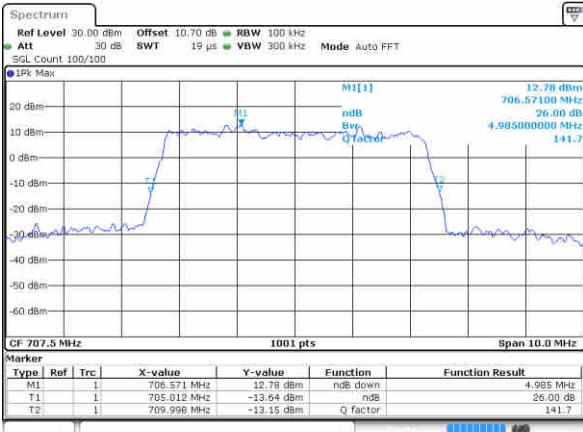
Date: 2.OCT.2017 00:45:02

Lowest Channel / 10MHz / 64QAM



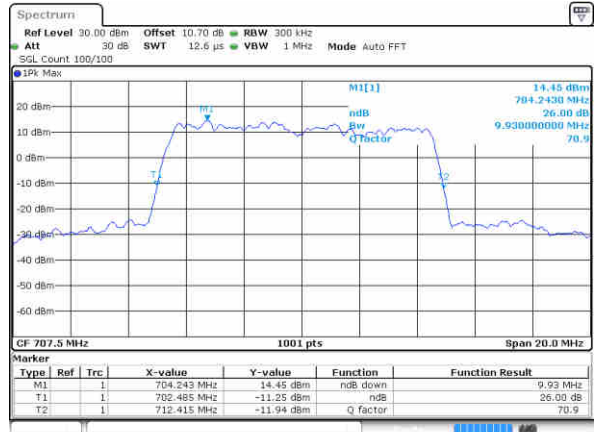
Date: 2.OCT.2017 00:53:18

Middle Channel / 5MHz / 64QAM



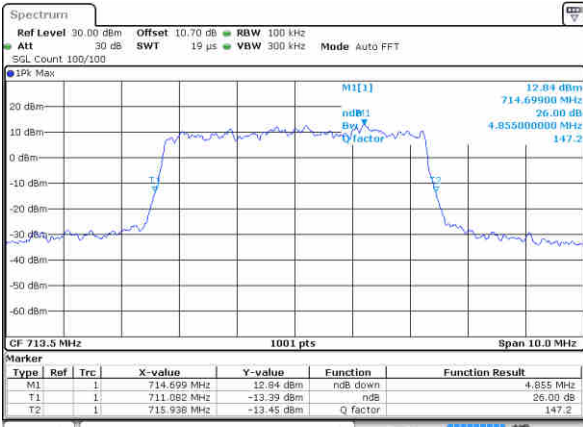
Date: 2.OCT.2017 00:48:33

Middle Channel / 10MHz / 64QAM



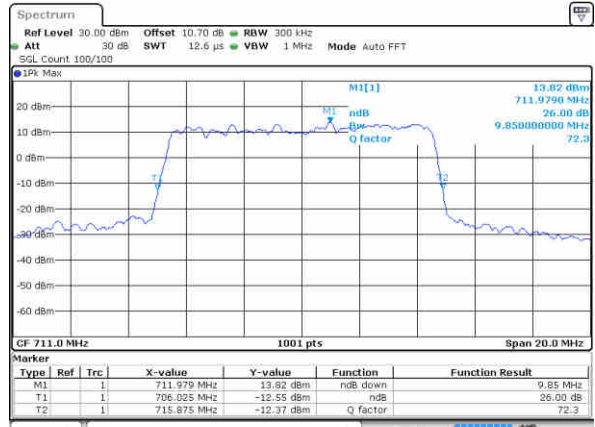
Date: 2.OCT.2017 00:56:50

Highest Channel / 5MHz / 64QAM



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

Highest Channel / 10MHz / 64QAM



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



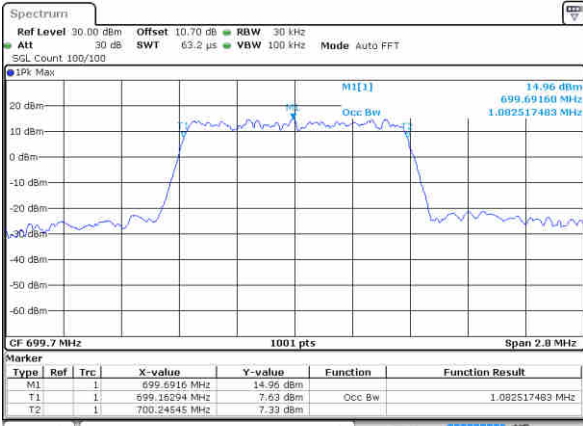
**Occupied Bandwidth**

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	-	-	-	-	-

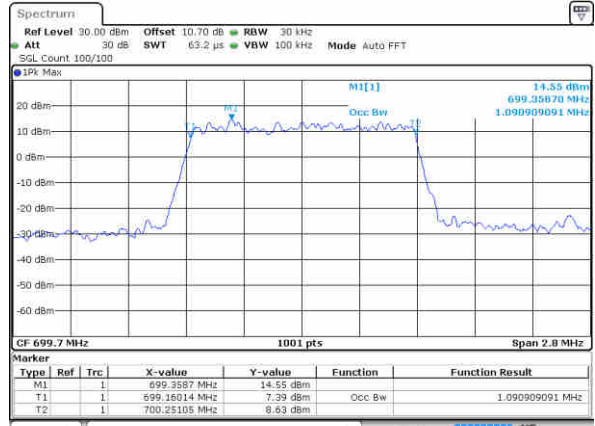


LTE Band 12

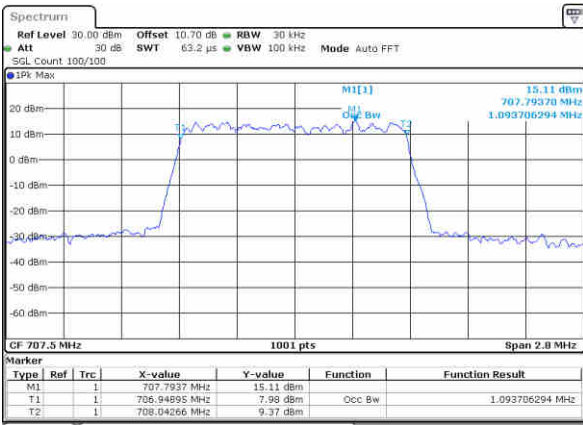
Lowest Channel / 1.4MHz / QPSK



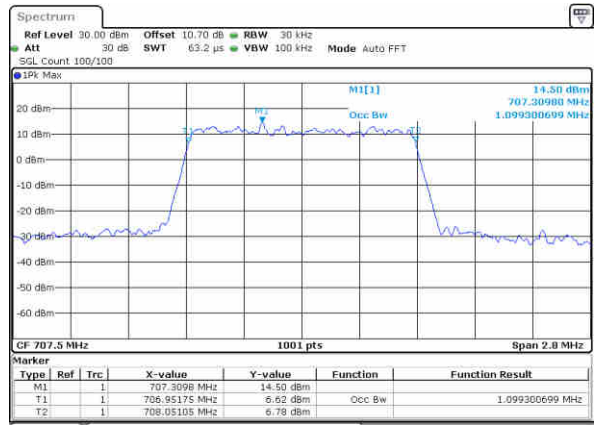
Lowest Channel / 1.4MHz / 16QAM



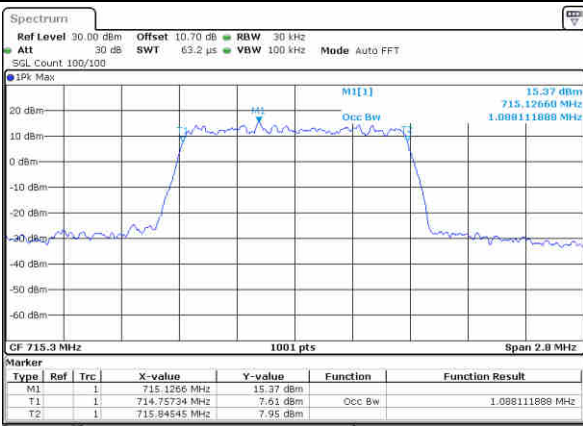
Middle Channel / 1.4MHz / QPSK



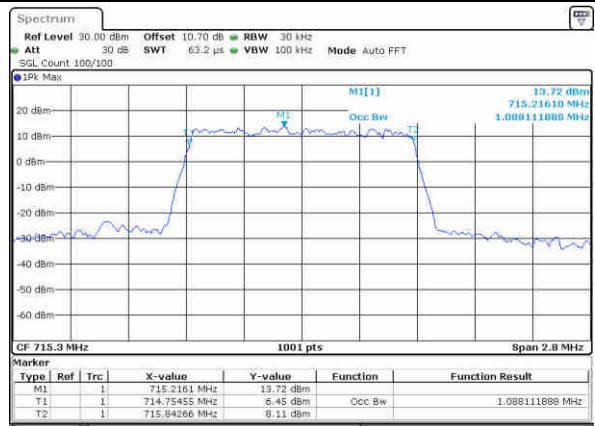
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



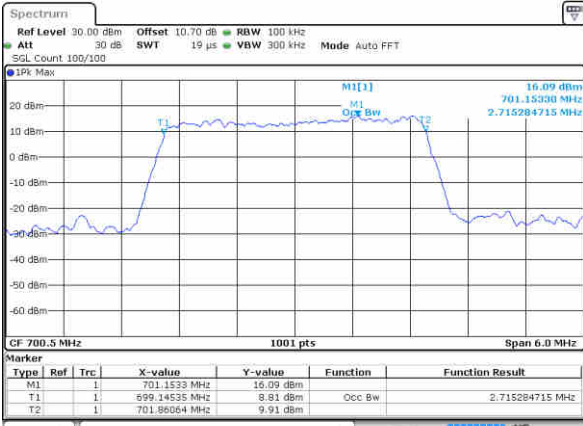
Highest Channel / 1.4MHz / 16QAM





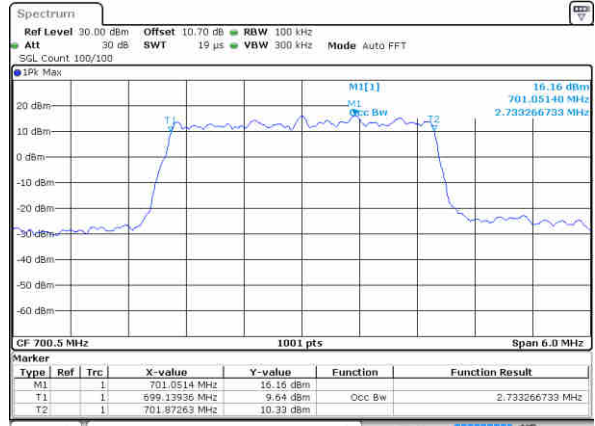
LTE Band 12

Lowest Channel / 3MHz / QPSK



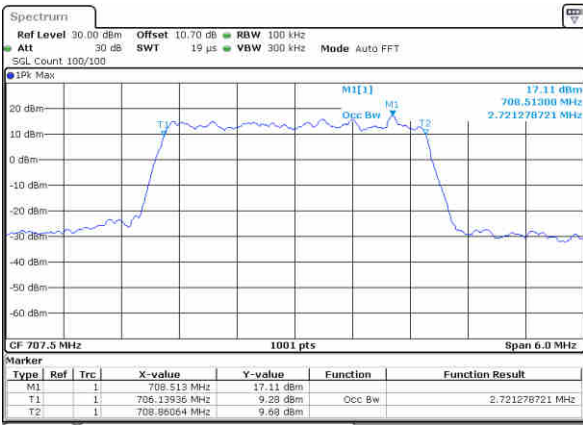
Date: 1.OCT.2017 20:27:43

Lowest Channel / 3MHz / 16QAM



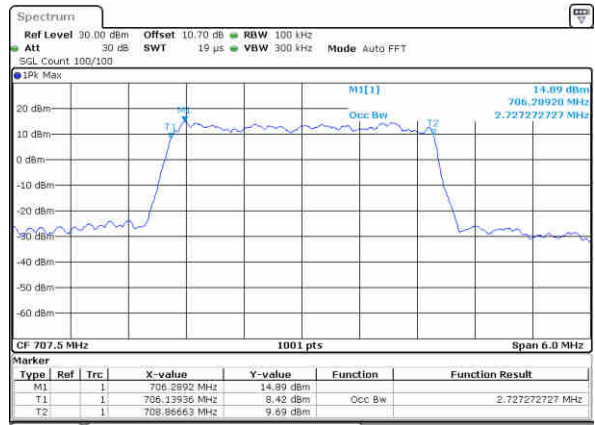
Date: 1.OCT.2017 20:27:53

Middle Channel / 3MHz / QPSK



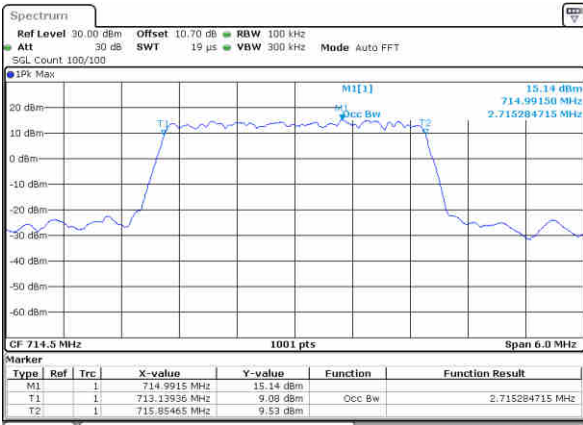
Date: 1.OCT.2017 20:34:55

Middle Channel / 3MHz / 16QAM



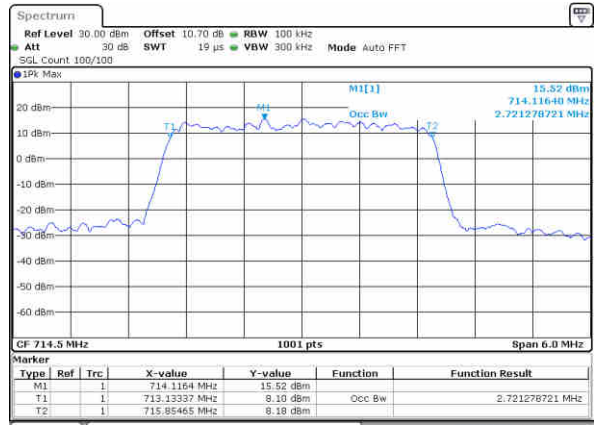
Date: 1.OCT.2017 20:34:45

Highest Channel / 3MHz / QPSK



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

Highest Channel / 3MHz / 16QAM

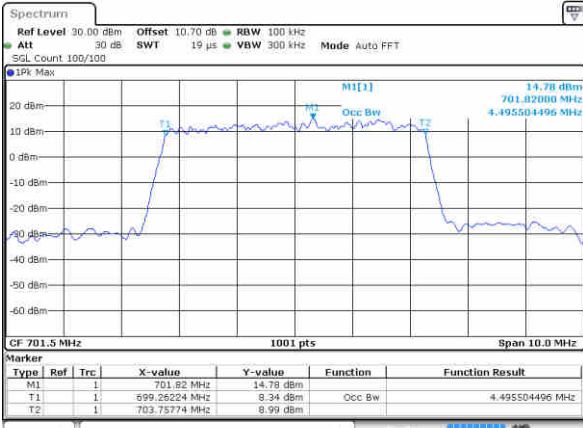


Date: 1.OCT.2017 20:37:23



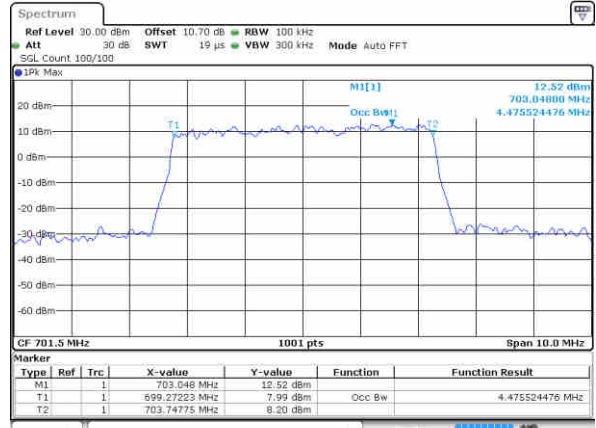
LTE Band 12

Lowest Channel / 5MHz / QPSK



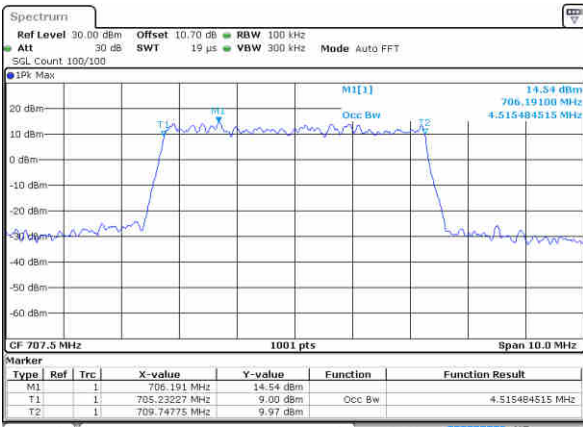
Date: 1.OCT.2017 20:44:15

Lowest Channel / 5MHz / 16QAM



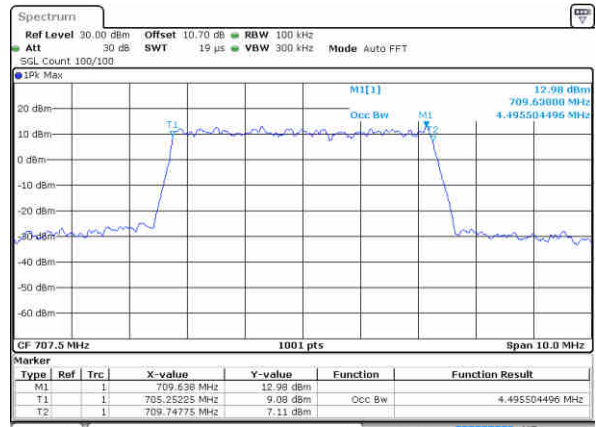
Date: 1.OCT.2017 20:44:25

Middle Channel / 5MHz / QPSK



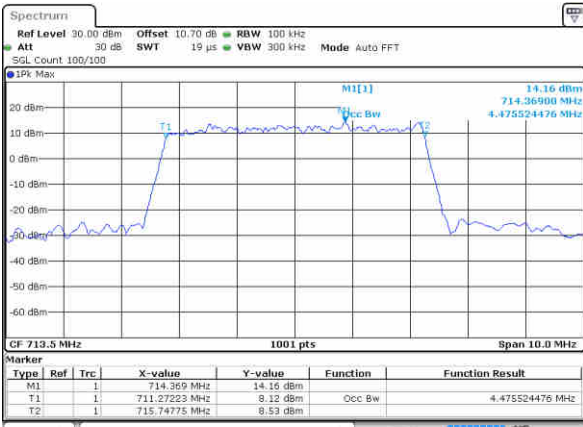
Date: 1.OCT.2017 20:51:28

Middle Channel / 5MHz / 16QAM



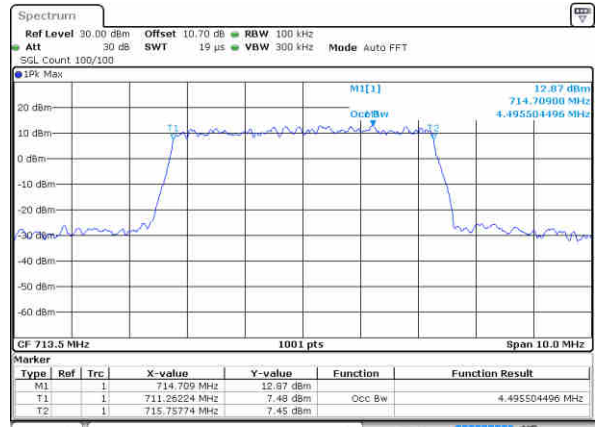
Date: 1.OCT.2017 20:51:16

Highest Channel / 5MHz / QPSK



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

Highest Channel / 5MHz / 16QAM

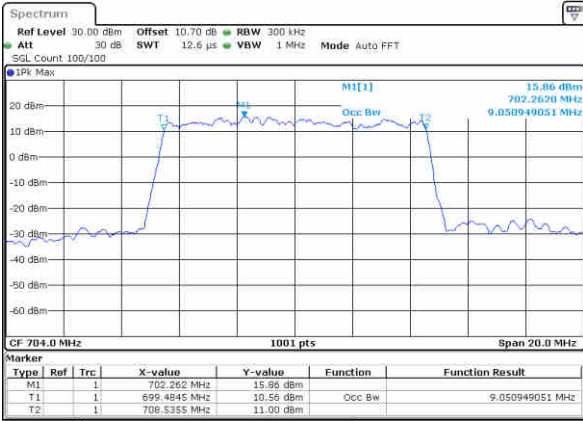


Date: 1.OCT.2017 20:53:55



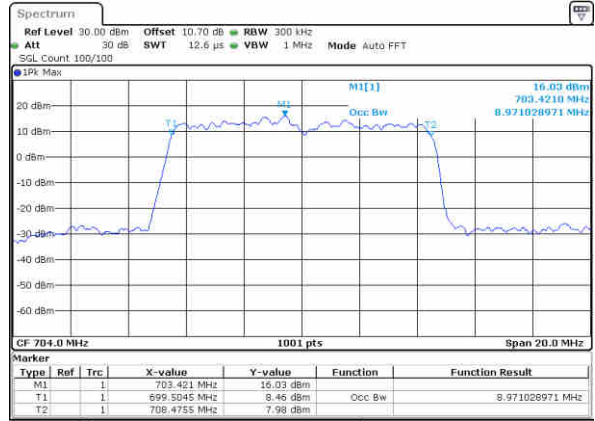
LTE Band 12

Lowest Channel / 10MHz / QPSK



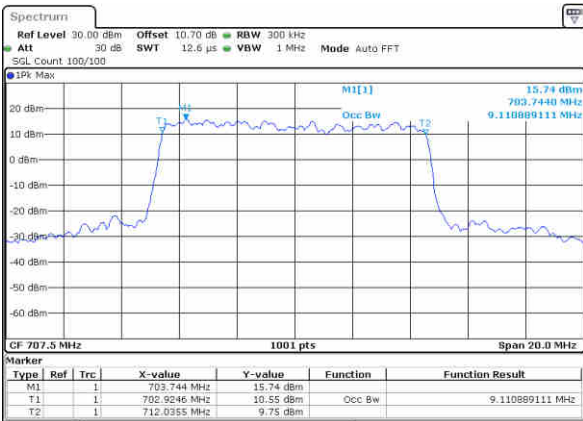
Date: 1.OCT.2017 21:00:48

Lowest Channel / 10MHz / 16QAM



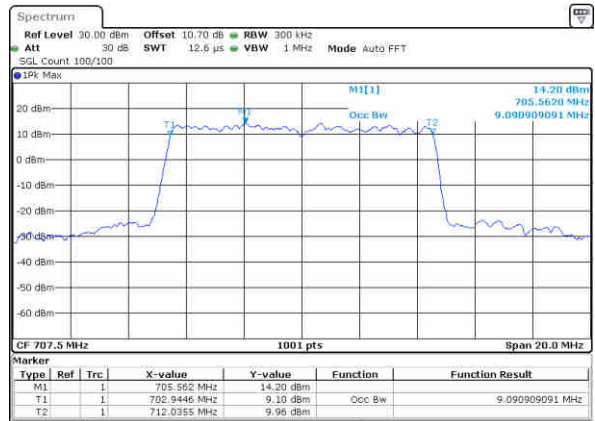
Date: 1.OCT.2017 21:00:58

Middle Channel / 10MHz / QPSK



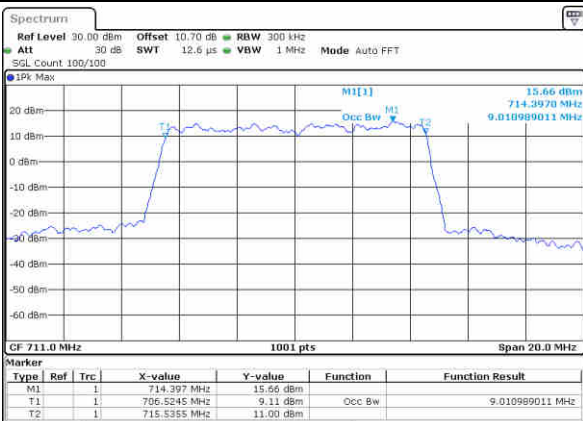
Date: 1.OCT.2017 21:08:00

Middle Channel / 10MHz / 16QAM



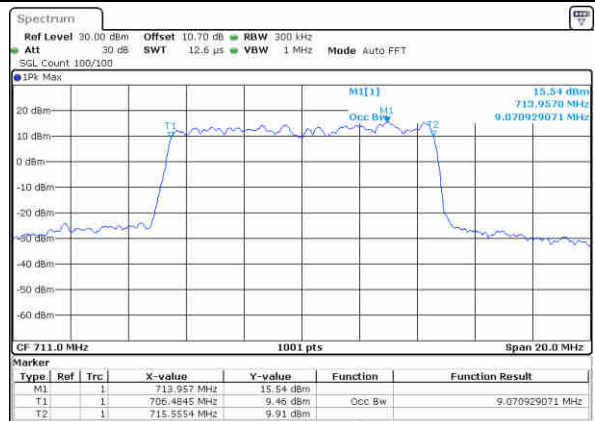
Date: 1.OCT.2017 21:07:50

Highest Channel / 10MHz / QPSK



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

Highest Channel / 10MHz / 16QAM

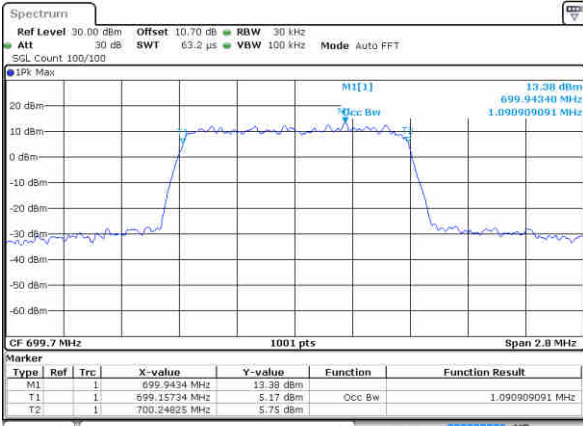


Date: 1.OCT.2017 21:10:27



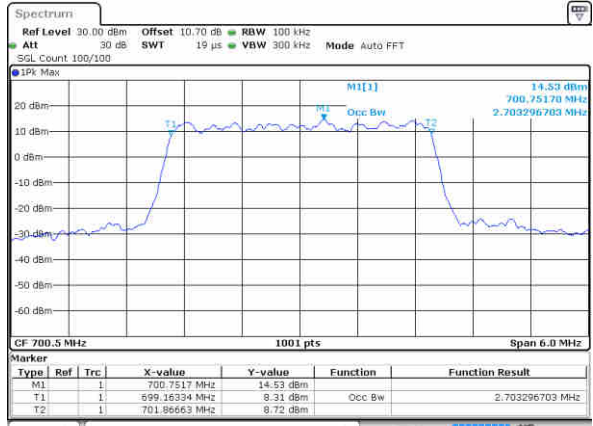
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



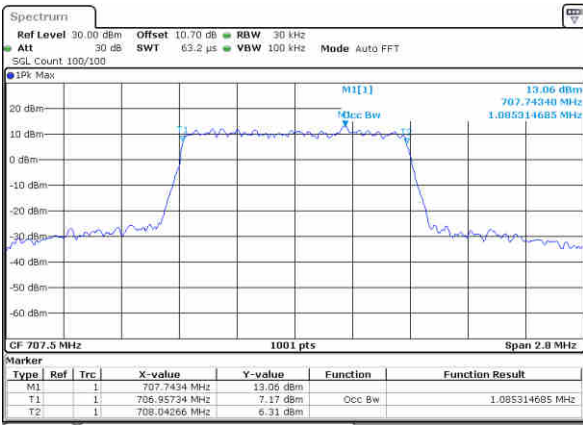
Date: 2.OCT.2017 01:01:24

Lowest Channel / 3MHz / 64QAM



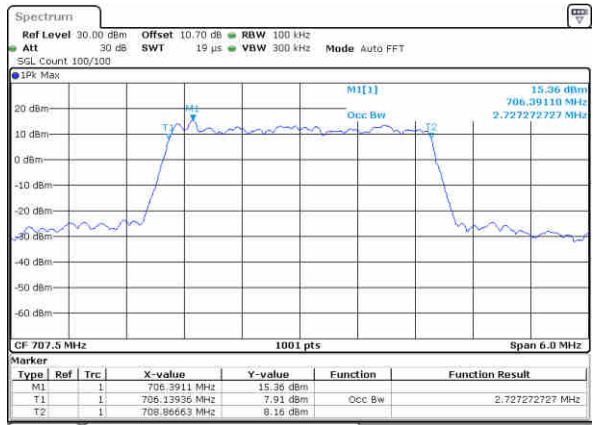
Date: 2.OCT.2017 00:36:36

Middle Channel / 1.4MHz / 64QAM



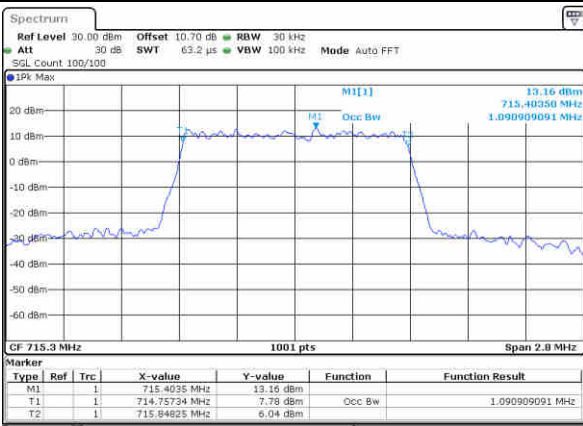
Date: 2.OCT.2017 01:04:55

Middle Channel / 3MHz / 64QAM



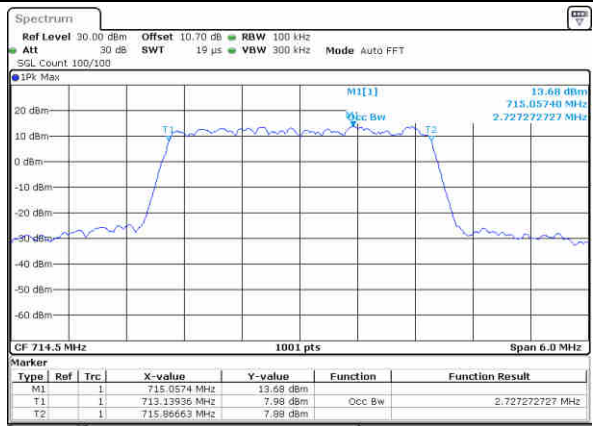
Date: 2.OCT.2017 00:40:07

Highest Channel / 1.4MHz / 64QAM



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

Highest Channel / 3MHz / 64QAM

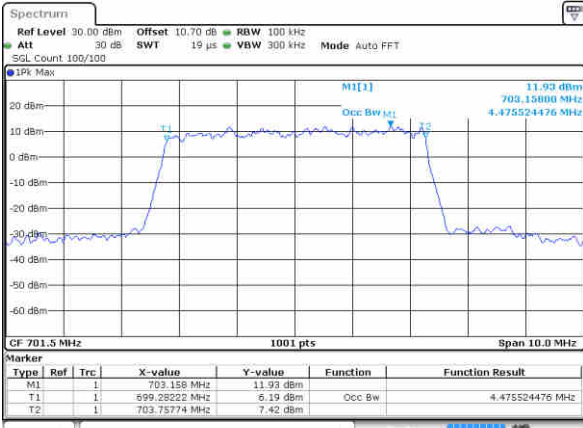


Date: 2.OCT.2017 00:41:21



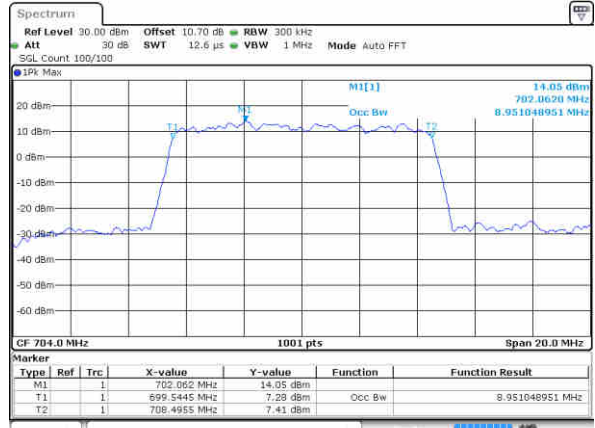
LTE Band 12

Lowest Channel / 5MHz / 64QAM



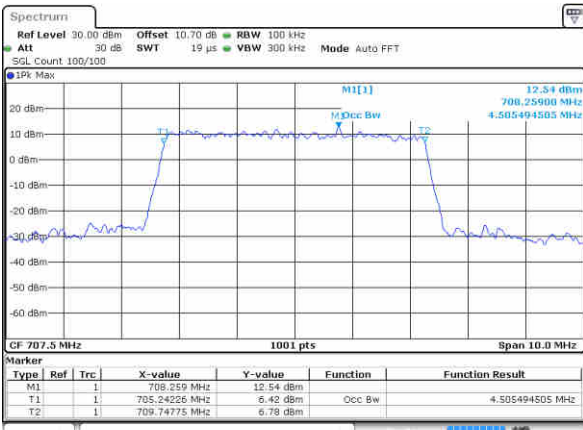
Date: 2.OCT.2017 00:44:52

Lowest Channel / 10MHz / 64QAM



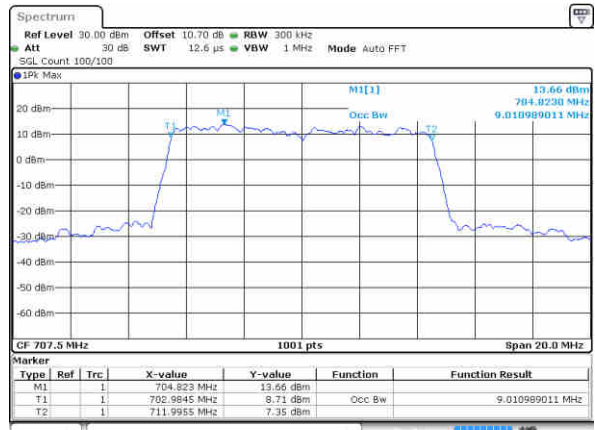
Date: 2.OCT.2017 00:53:08

Middle Channel / 5MHz / 64QAM



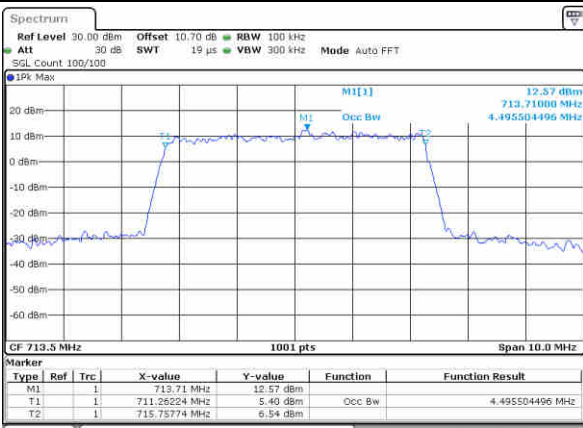
Date: 2.OCT.2017 00:48:23

Middle Channel / 10MHz / 64QAM



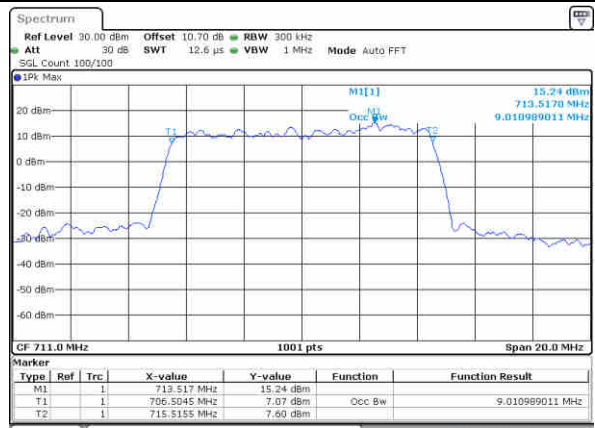
Date: 2.OCT.2017 00:56:40

Highest Channel / 5MHz / 64QAM



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

Highest Channel / 10MHz / 64QAM

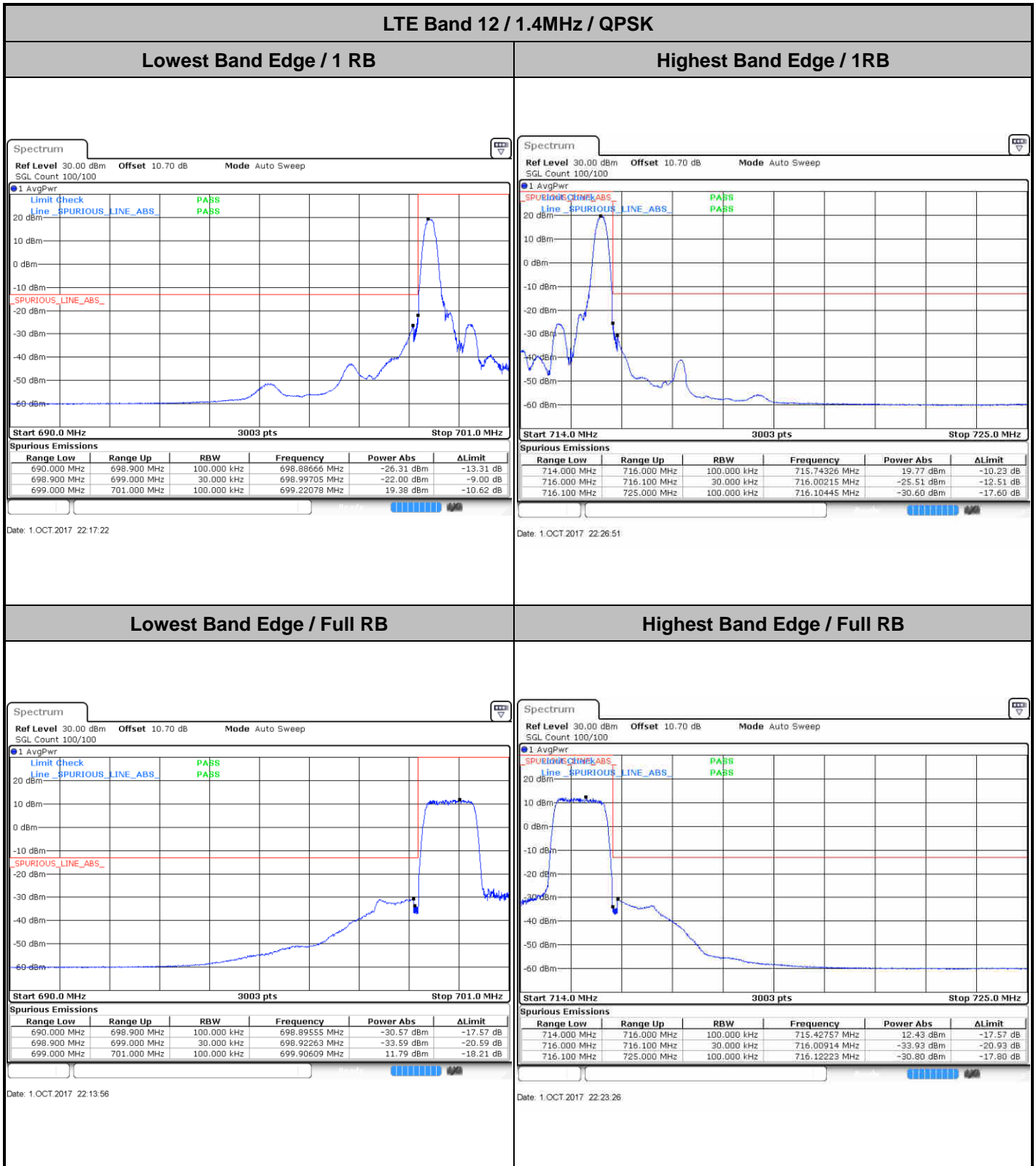


Date: 2.OCT.2017 00:56:53





# Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



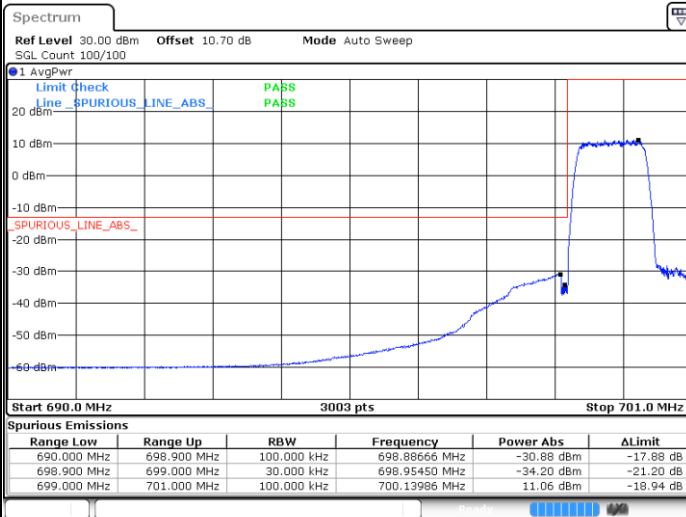
Date: 1.OCT.2017 22:16:13



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

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



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

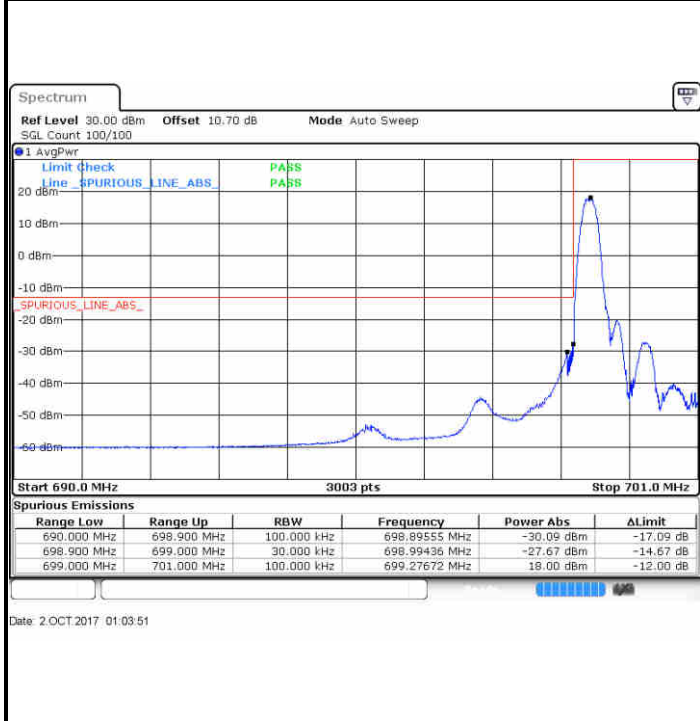


Date: 1.OCT.2017 22:24:34

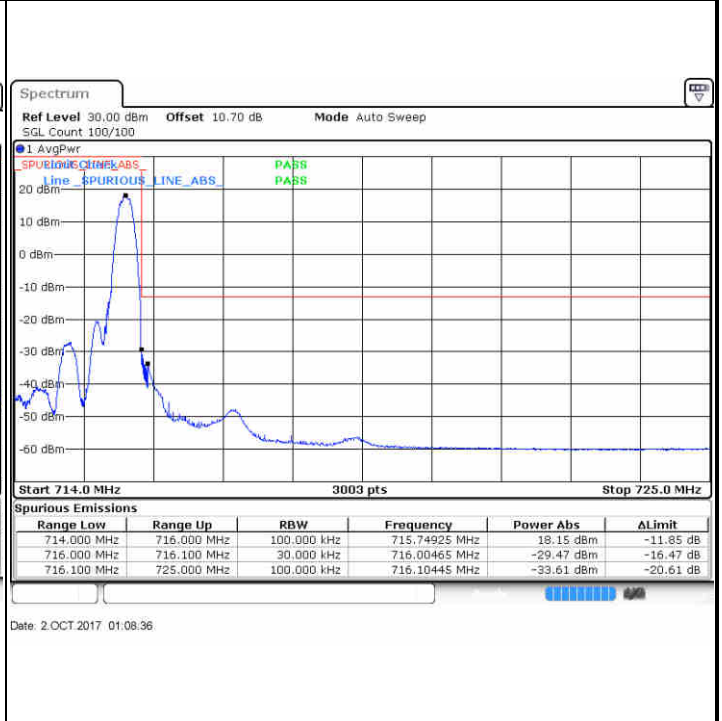


**LTE Band 12 / 1.4MHz / 64QAM**

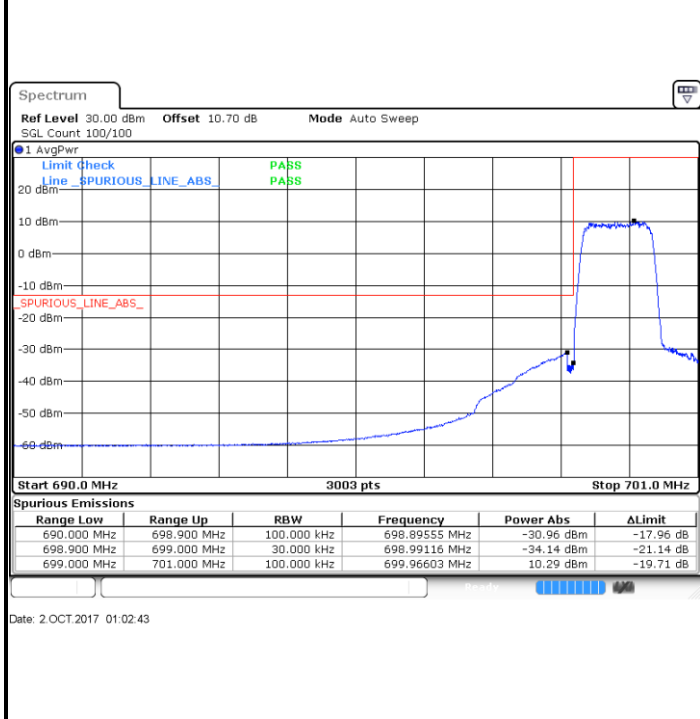
**Lowest Band Edge / 1 RB**



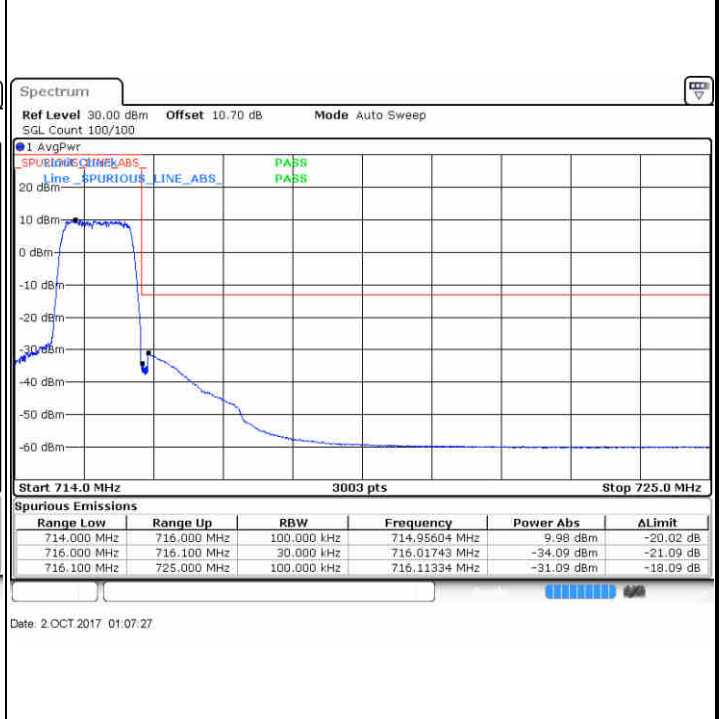
**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



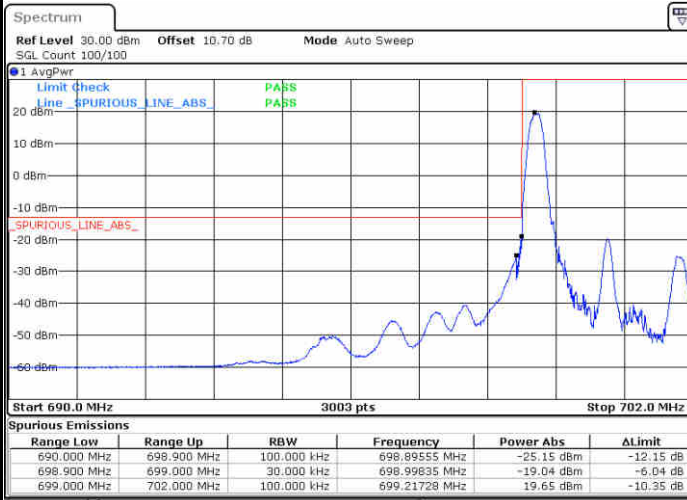
**Highest Band Edge / Full RB**





LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



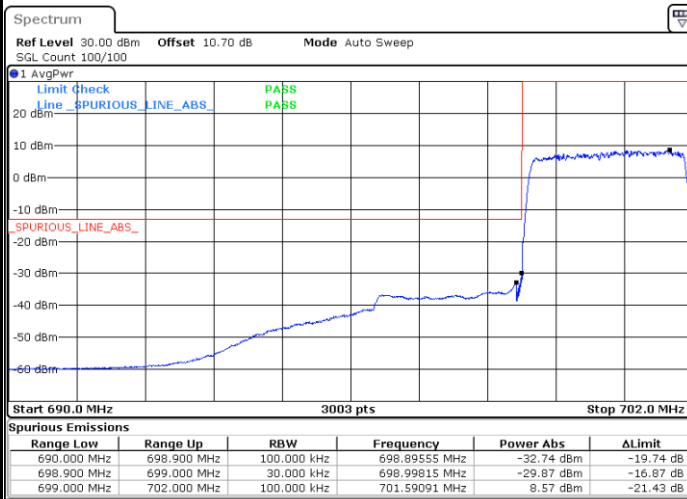
Date: 1.OCT.2017 20:32:47

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

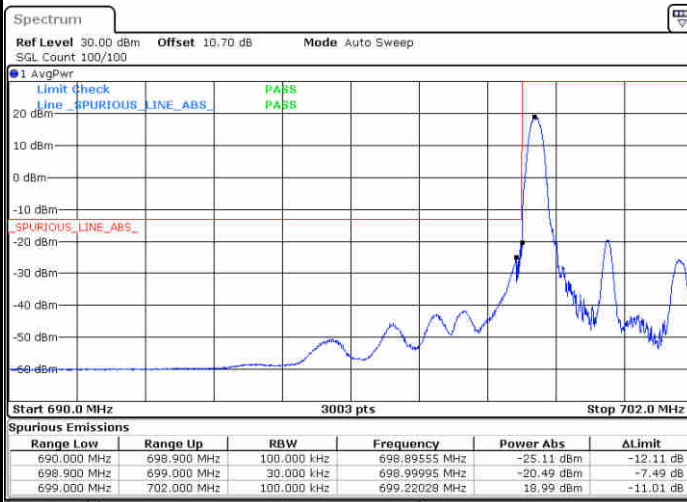


Date: 1.OCT.2017 20:38:51



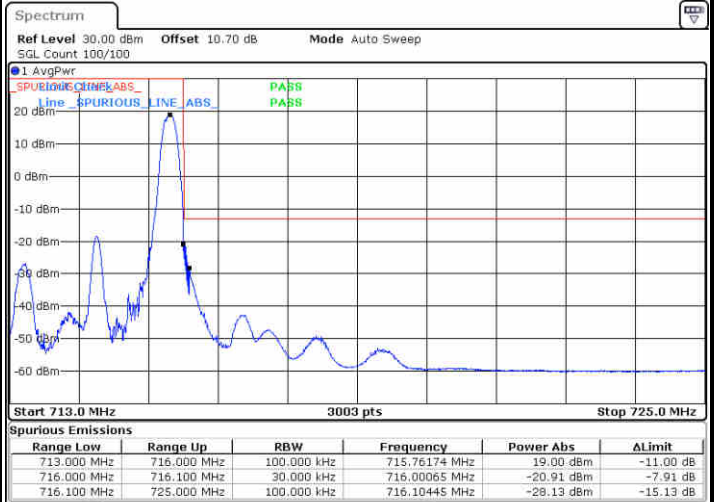
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



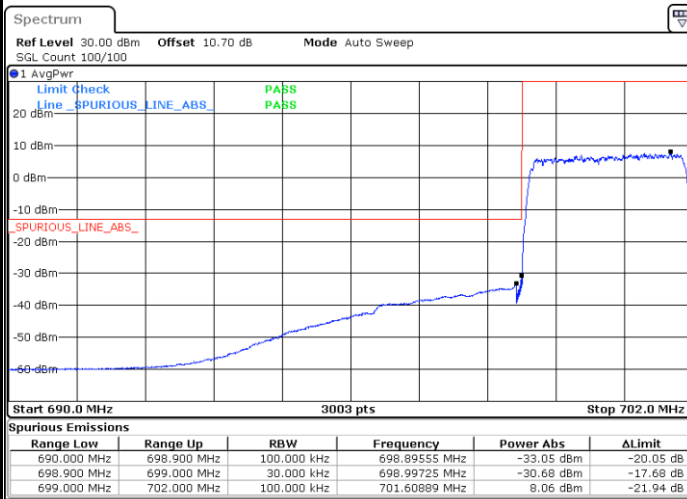
Date: 1.OCT.2017 20:31:39

Highest Band Edge / 1 RB



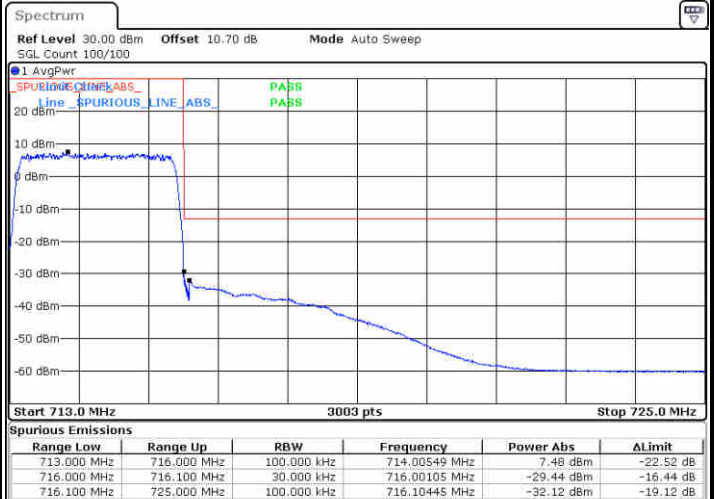
Date: 1.OCT.2017 20:41:09

Lowest Band Edge / Full RB



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

Highest Band Edge / Full RB



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