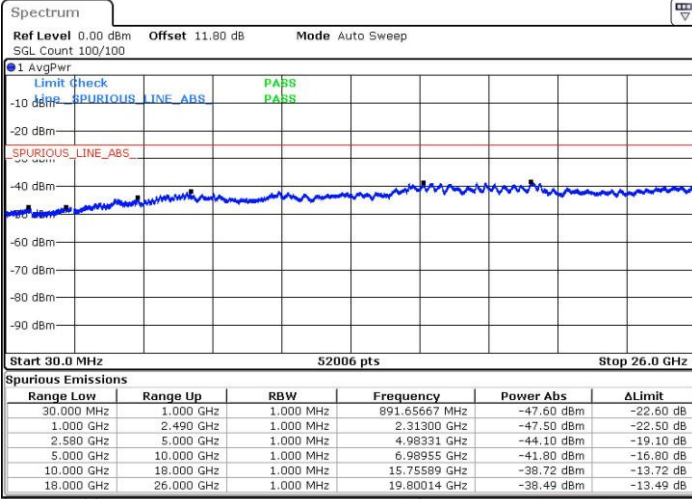




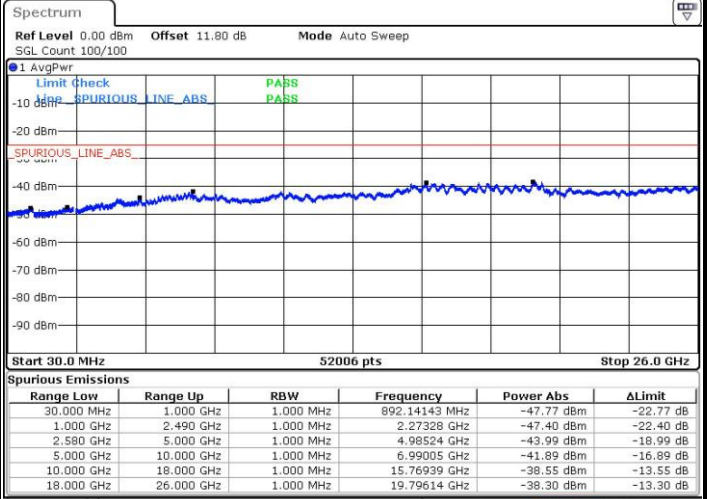
LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



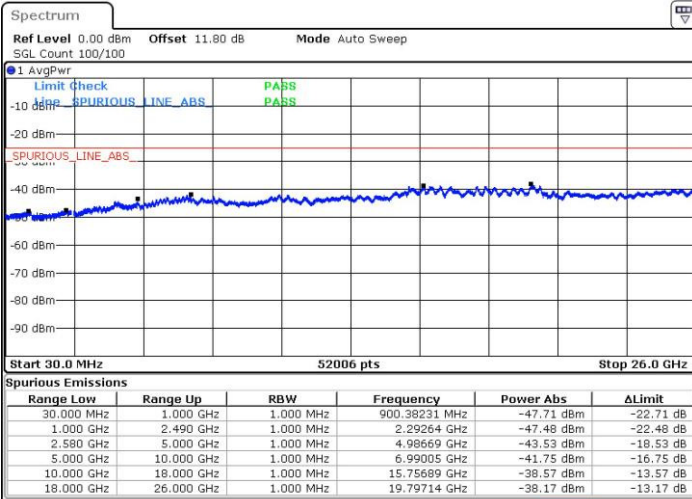
Date: 21 APR 2017 21:10:43



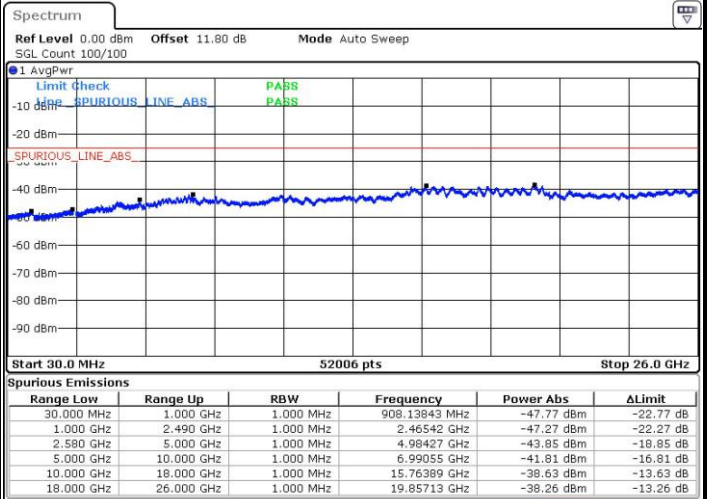
Date: 21 APR 2017 21:11:37

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 21 APR 2017 21:19:29



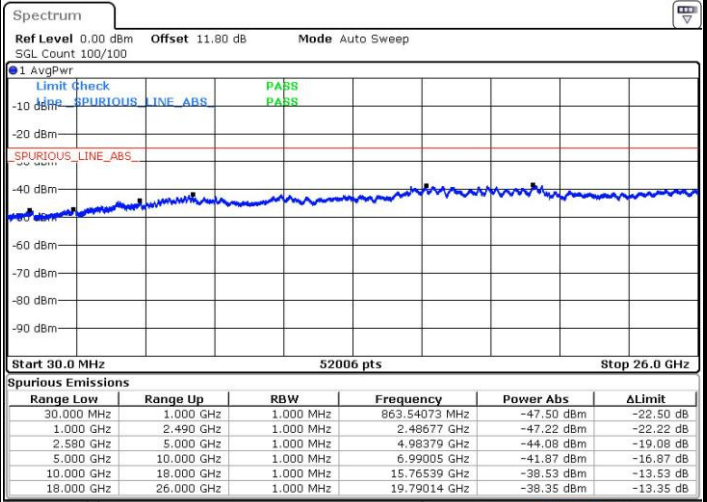
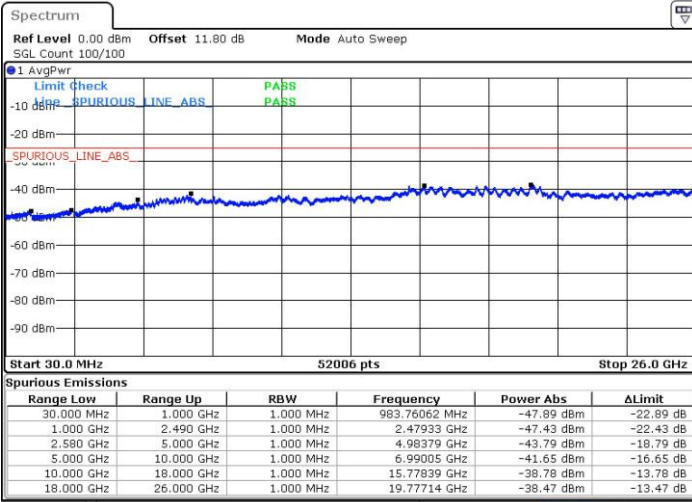
Date: 21 APR 2017 21:20:22



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

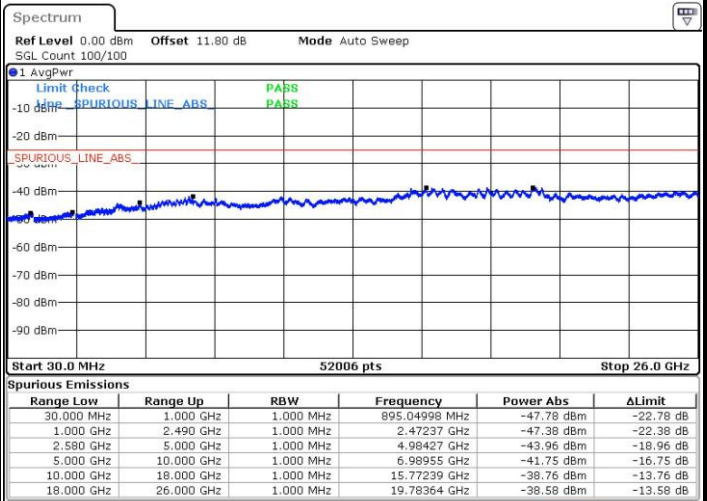
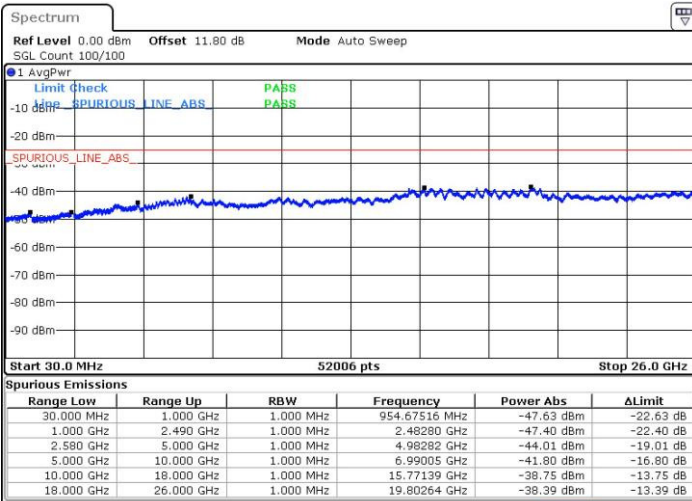


Date: 21 APR 2017 21:26:37

Date: 21 APR 2017 21:27:30

Middle Channel / QPSK

Middle Channel / 16QAM



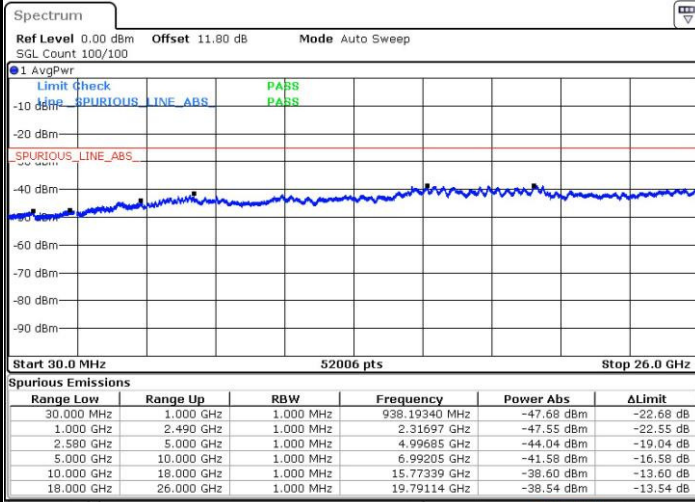
Date: 21 APR 2017 21:29:05

Date: 21 APR 2017 21:29:59



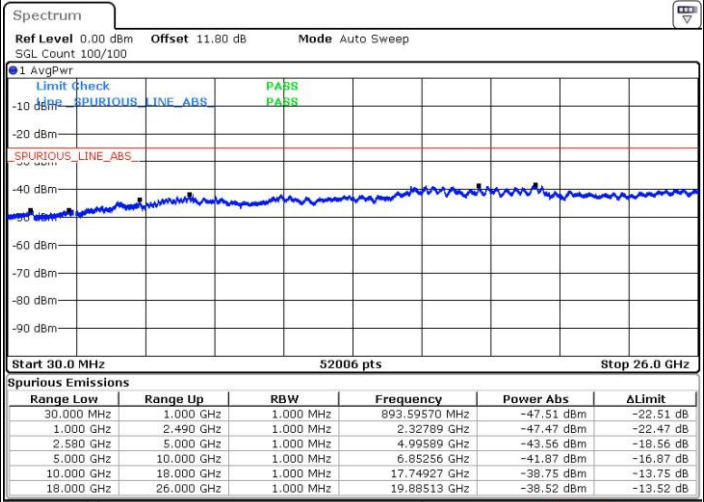
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 21 APR 2017 21:36:14

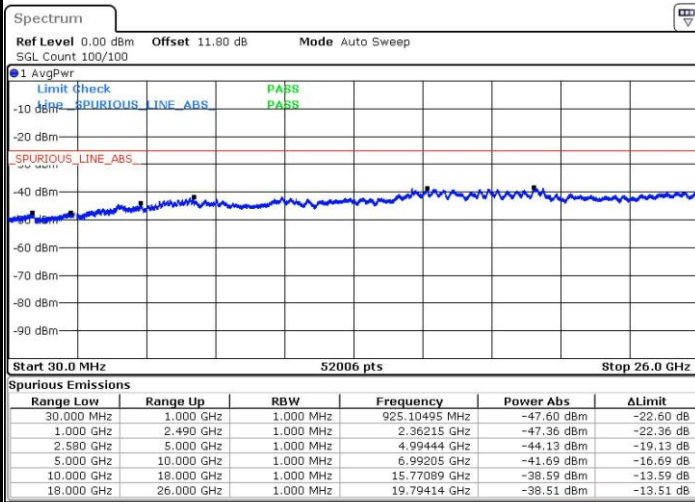
Highest Channel / 16QAM



Date: 21 APR 2017 21:37:07

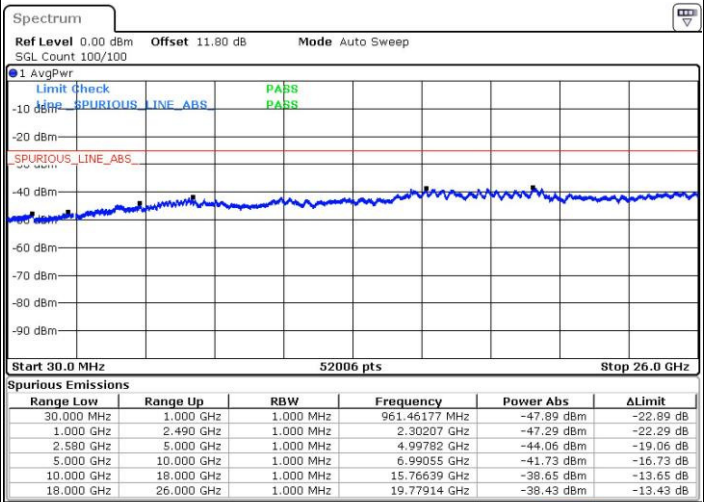
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 21 APR 2017 21:43:22

Lowest Channel / 16QAM



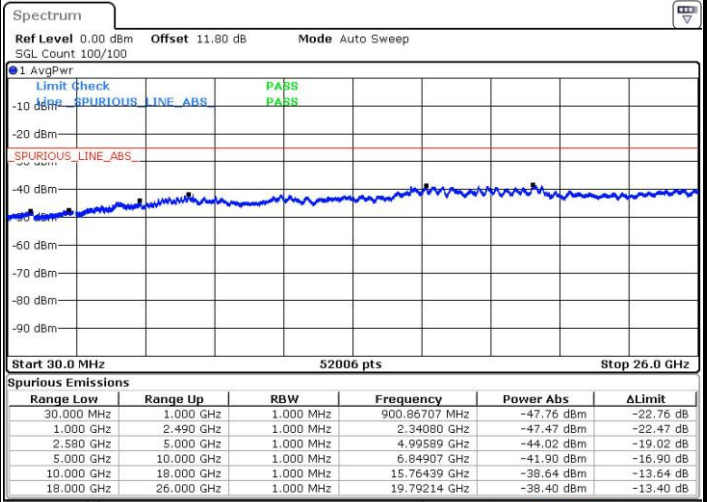
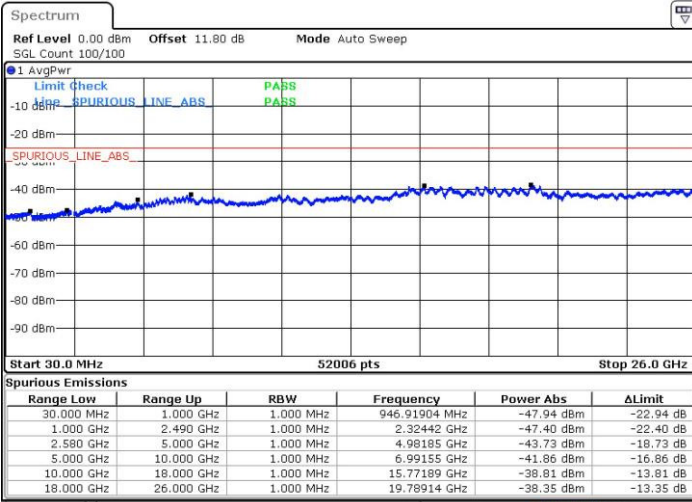
Date: 21 APR 2017 21:44:15



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

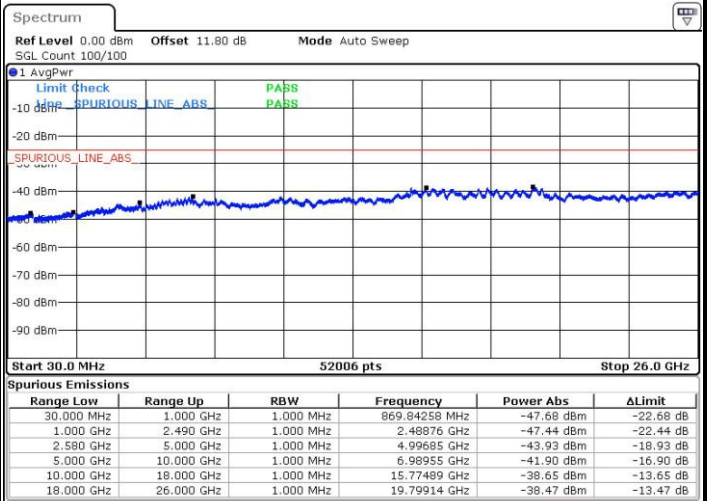
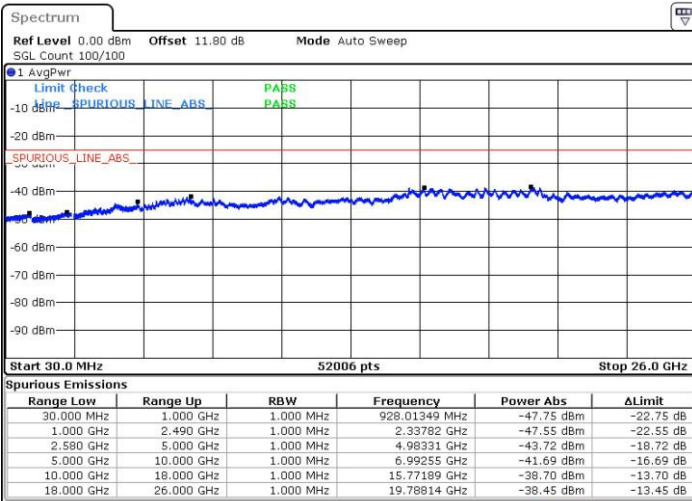


Date: 21 APR 2017 21:46:25

Date: 21 APR 2017 21:47:19

Highest Channel / QPSK

Highest Channel / 16QAM



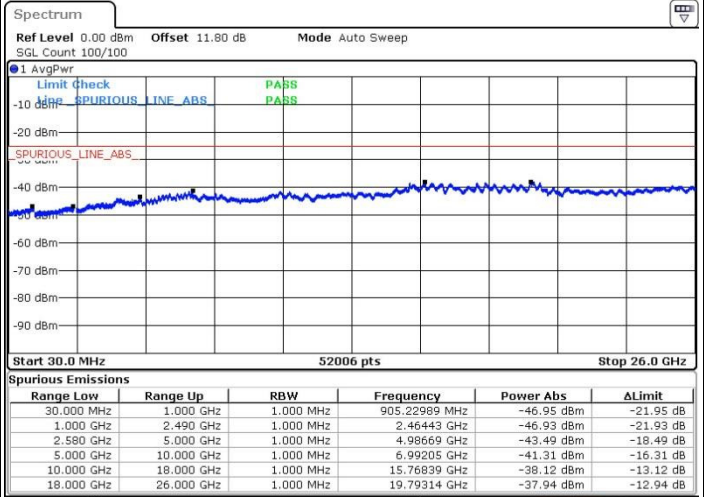
Date: 21 APR 2017 21:58:56

Date: 21 APR 2017 21:59:49



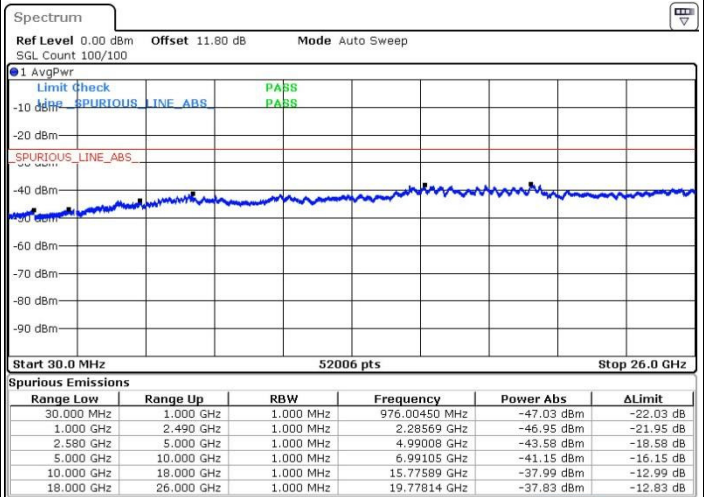
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



Date: 28.APR.2017 10:22:06

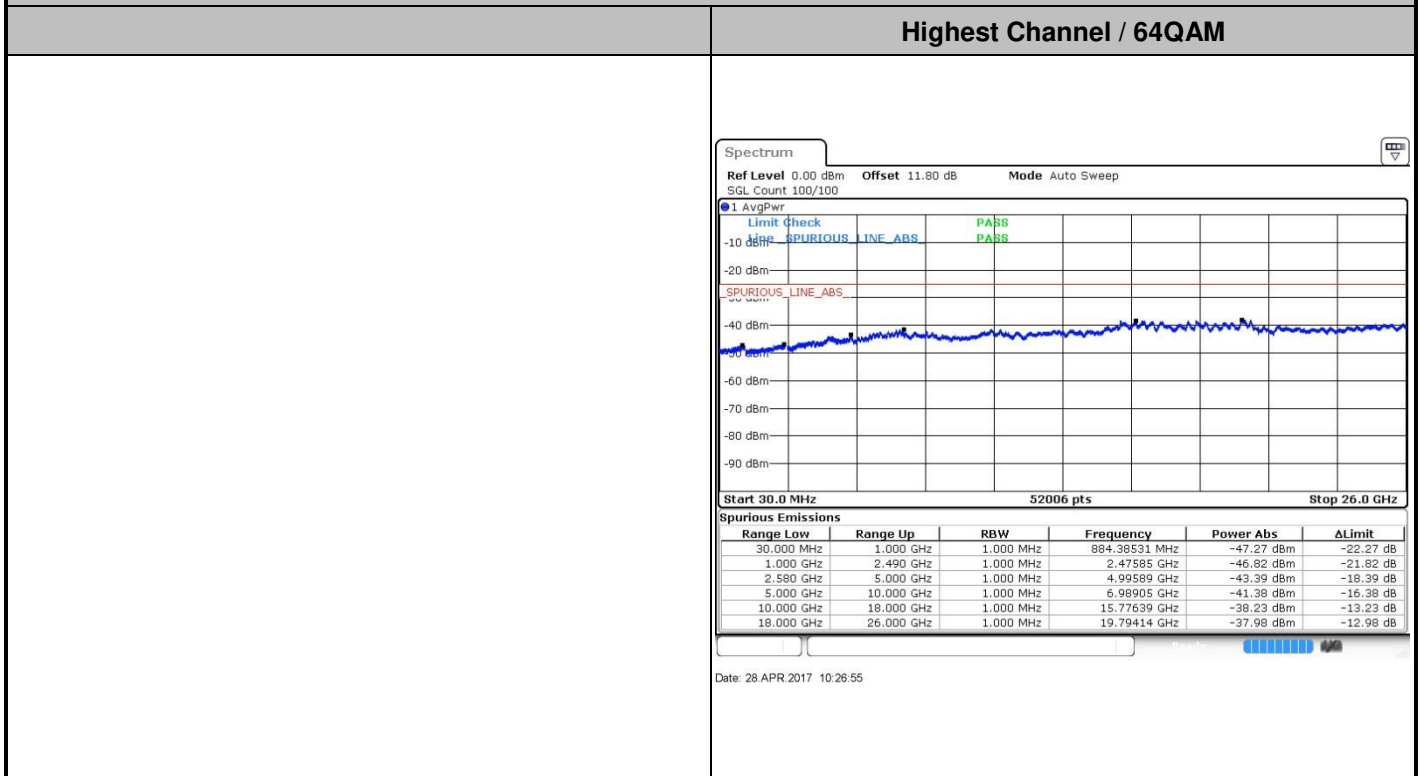
Middle Channel / 64QAM



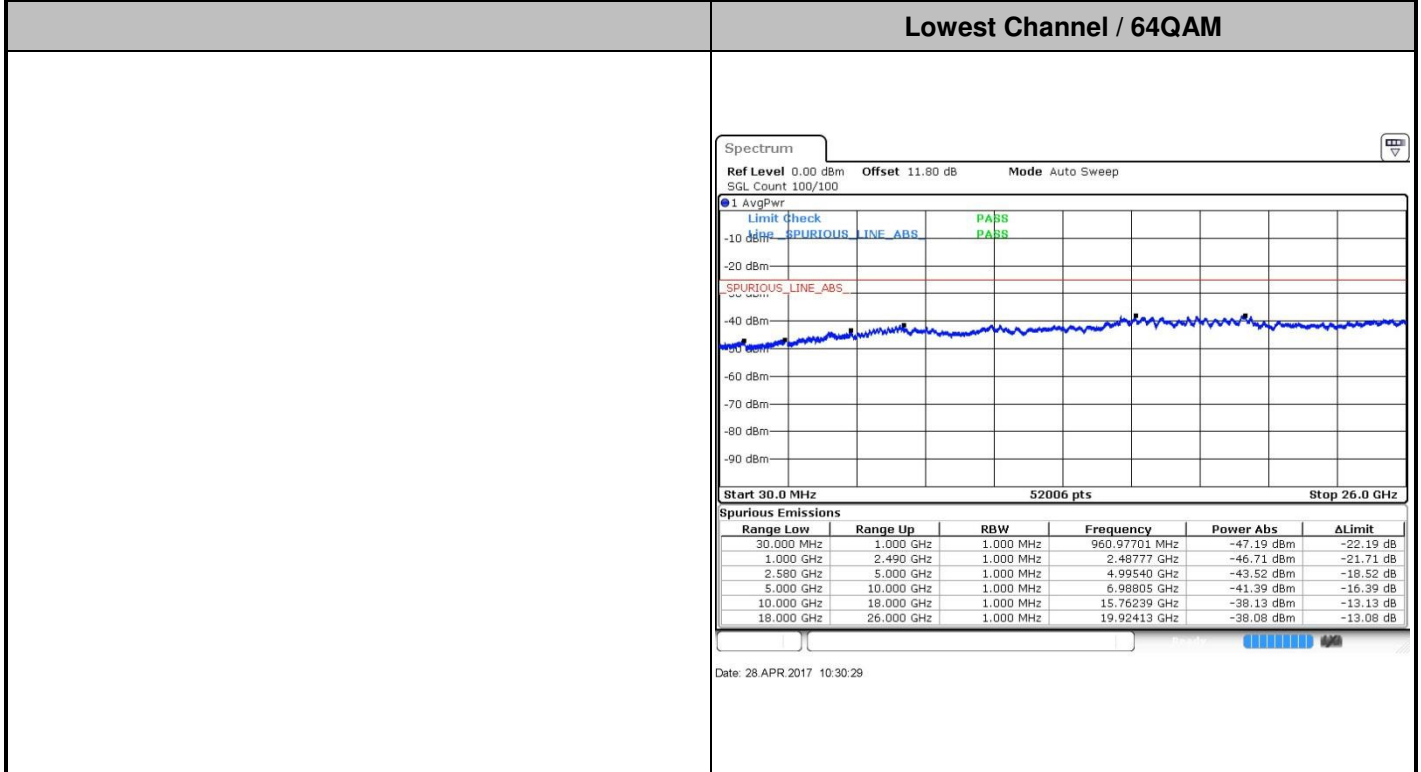
Date: 28.APR.2017 10:23:21



LTE Band 7 / 5MHz



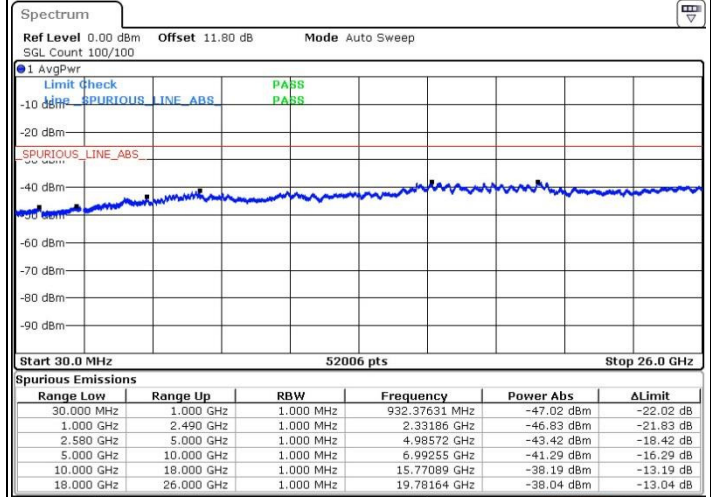
LTE Band 7 / 10MHz





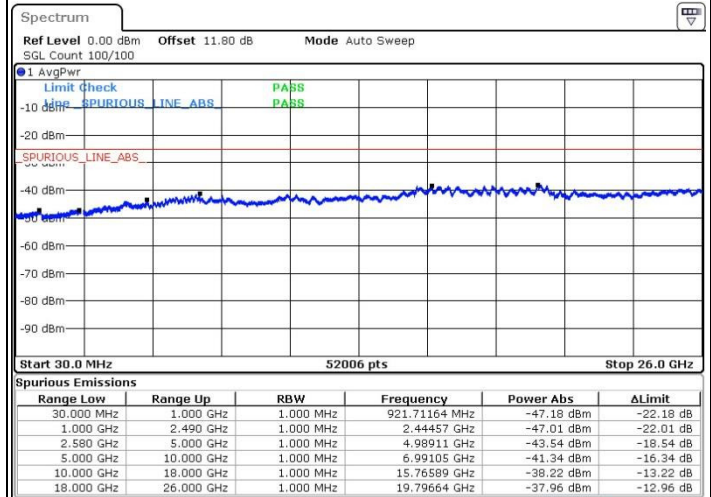
LTE Band 7 / 10MHz

Middle Channel / 64QAM



Date: 28.APR.2017 10:31:43

Highest Channel / 64QAM

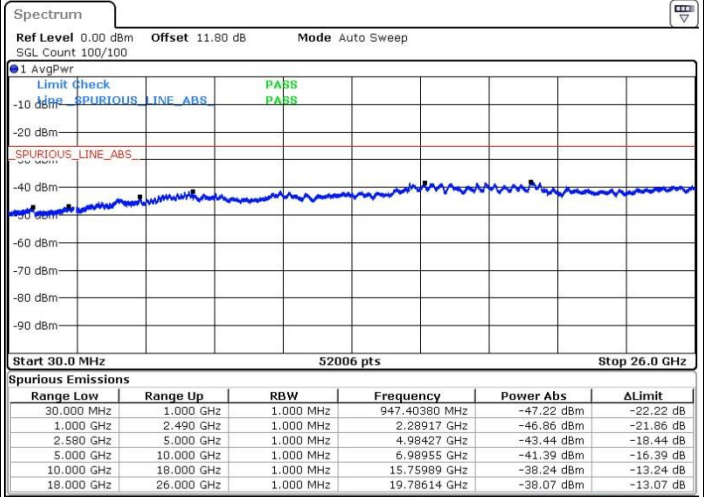


Date: 28.APR.2017 10:35:17



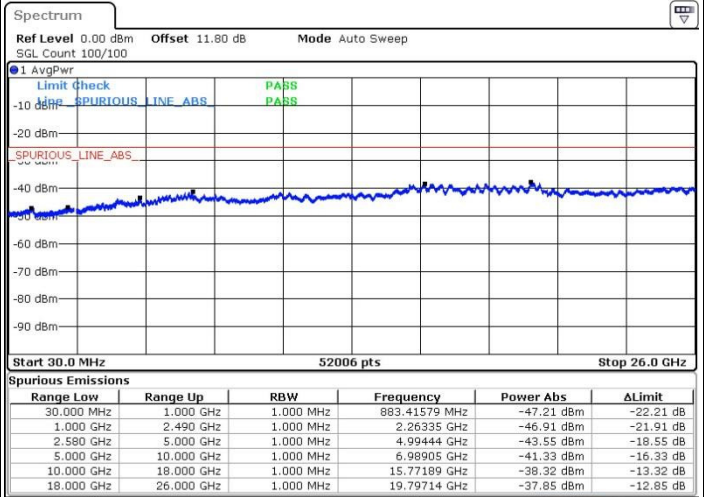
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



Date: 28.APR.2017 10:38:51

Middle Channel / 64QAM

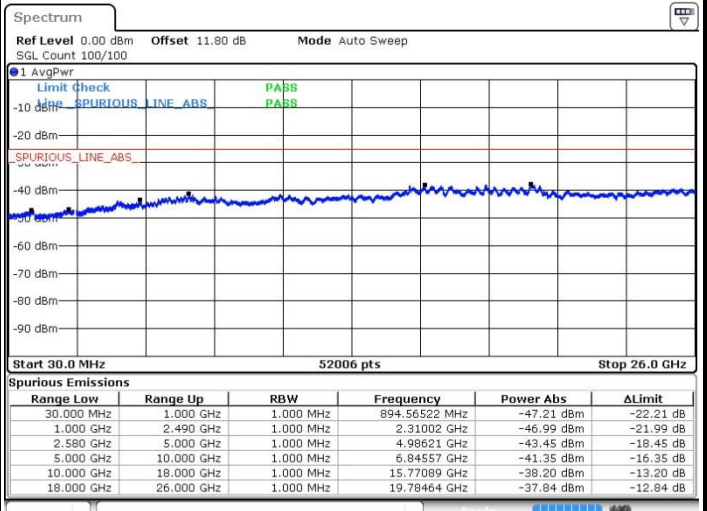


Date: 28.APR.2017 10:40:07



LTE Band7 / 15MHz

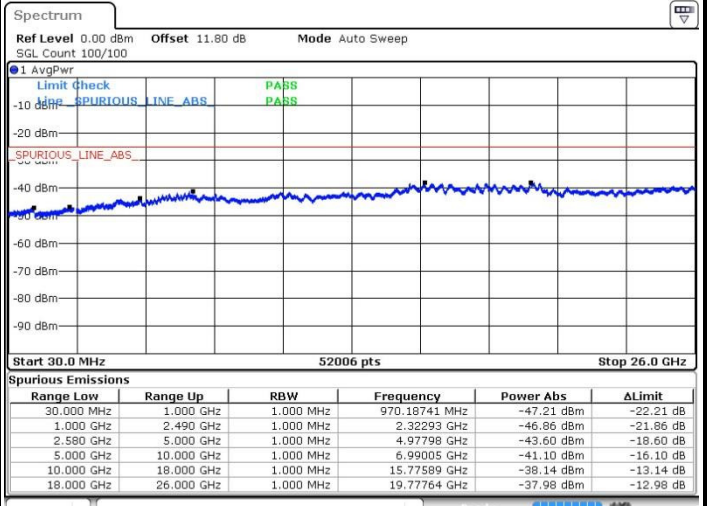
Highest Channel / 64QAM



Date: 28.APR.2017 10:43:40

LTE Band 7 / 20MHz

Lowest Channel / 64QAM

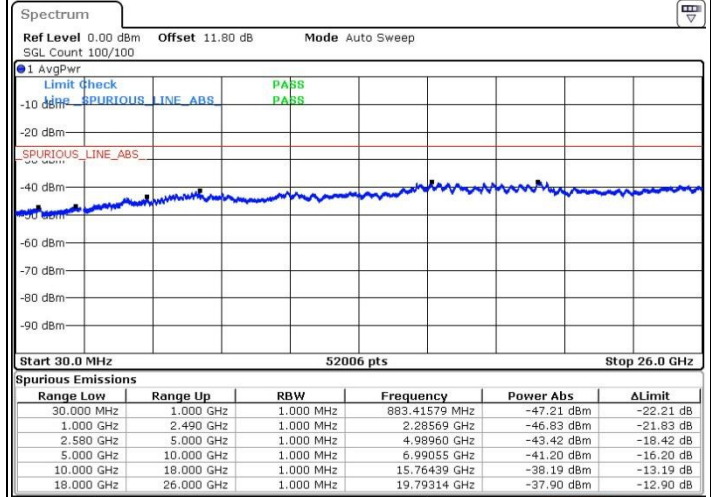


Date: 28.APR.2017 10:47:14



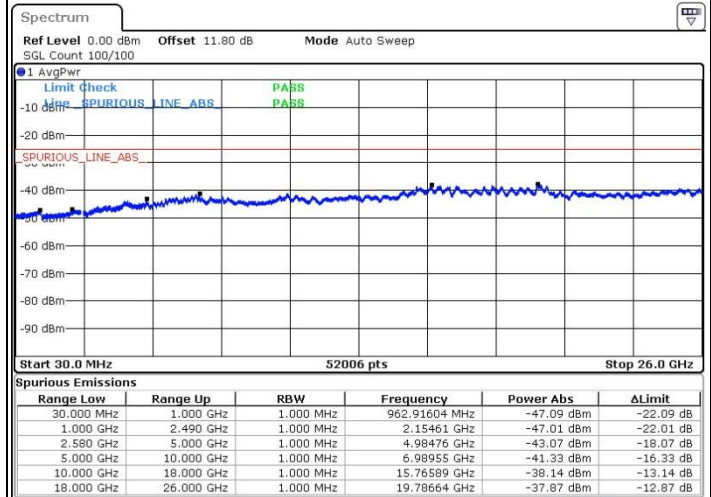
LTE Band 7 / 20MHz

Middle Channel / 64QAM



Date: 28.APR.2017 10:48:29

Highest Channel / 64QAM



Date: 28.APR.2017 10:52:03



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0069	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0085	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0056	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



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	4.84	5.19	5.68	6	PASS
Middle CH	5.01	4.99	5.59	5.86	
Highest CH	4.52	5.22	5.39	5.94	
Mod.	-		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	5.28	5.97	PASS
Middle CH	-	-	5.57	5.91	
Highest CH	-	-	5.19	5.94	



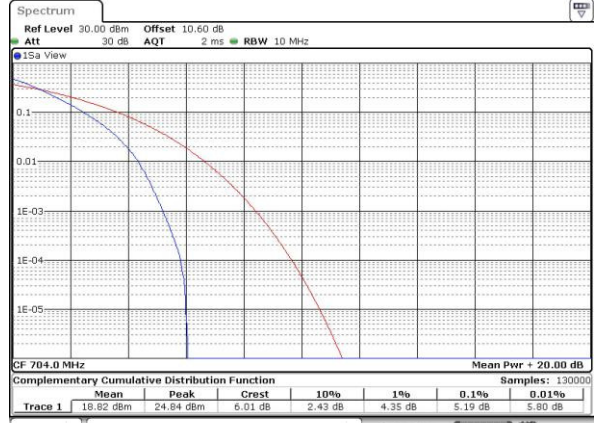
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 21 APR 2017 19:20:27

Lowest Channel / Full RB



Date: 21 APR 2017 19:20:18

Middle Channel / 1RB



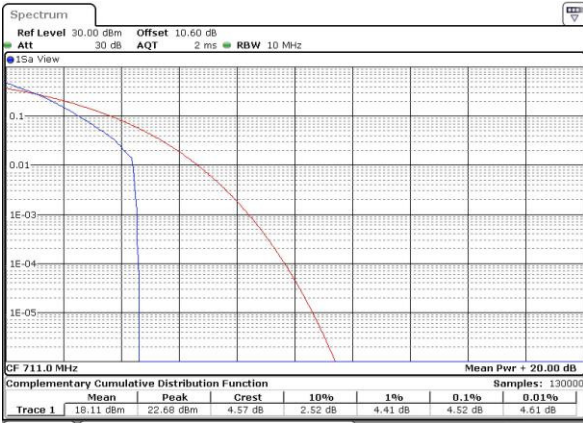
Date: 21 APR 2017 19:20:37

Middle Channel / Full RB



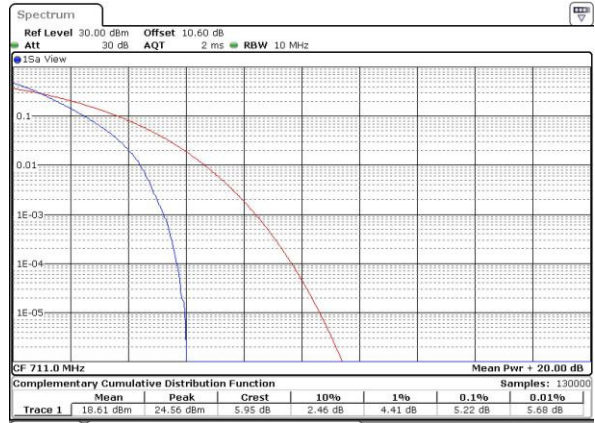
Date: 21 APR 2017 19:20:46

Highest Channel / 1RB



Date: 21 APR 2017 19:21:05

Highest Channel / Full RB

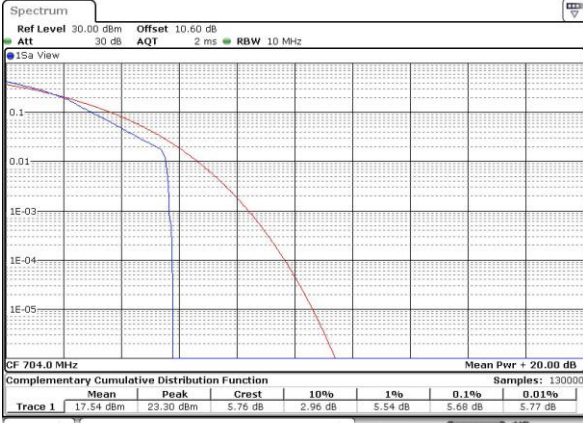


Date: 21 APR 2017 19:20:55



LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 21 APR 2017 19:19:29

Lowest Channel / Full RB



Date: 21 APR 2017 19:19:19

Middle Channel / 1RB



Date: 21 APR 2017 19:19:39

Middle Channel / Full RB



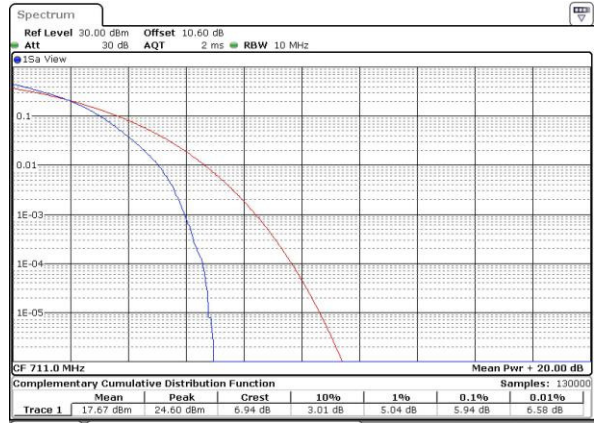
Date: 21 APR 2017 19:19:49

Highest Channel / 1RB



Date: 21 APR 2017 19:20:08

Highest Channel / Full RB

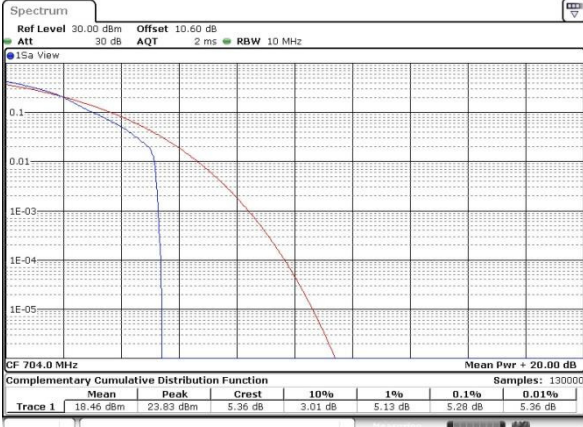


Date: 21 APR 2017 19:19:59



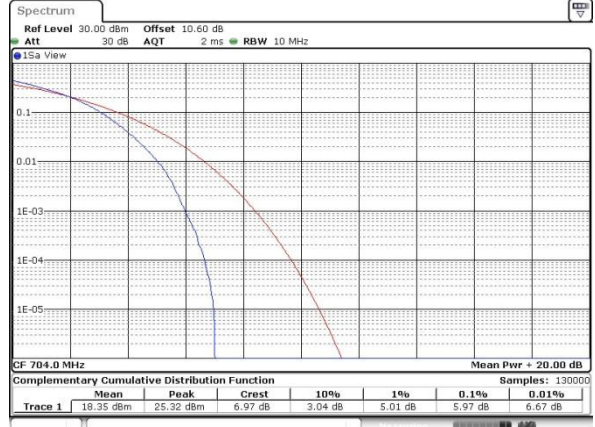
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



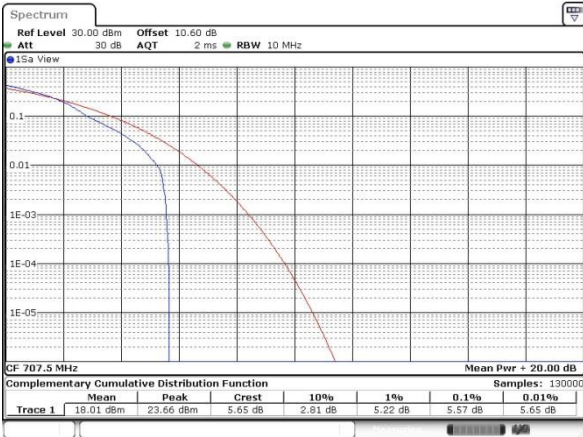
Date: 28 APR 2017 14:28:50

Lowest Channel / Full RB



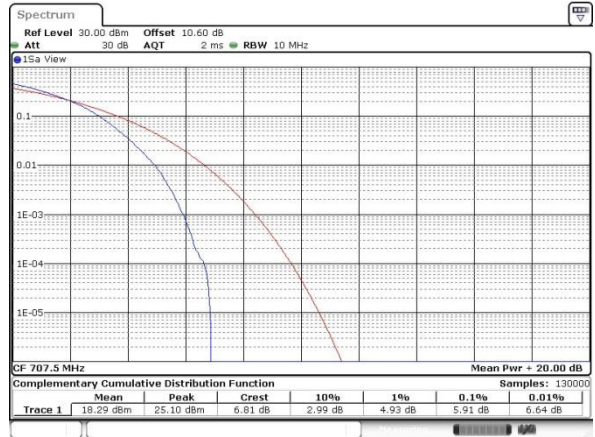
Date: 28 APR 2017 14:28:25

Middle Channel / 1RB



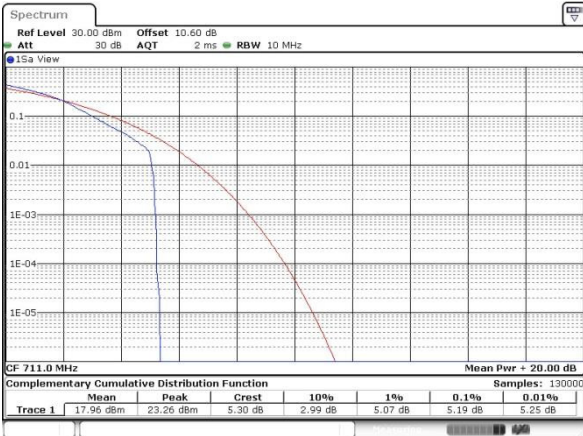
Date: 28 APR 2017 14:29:08

Middle Channel / Full RB



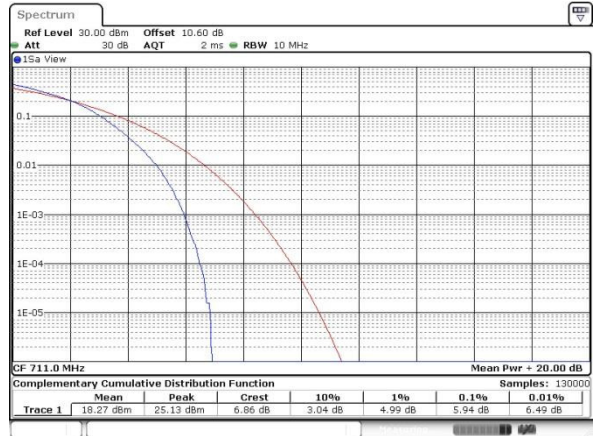
Date: 28 APR 2017 14:33:23

Highest Channel / 1RB



Date: 28 APR 2017 14:33:49

Highest Channel / Full RB



Date: 28 APR 2017 14:33:37



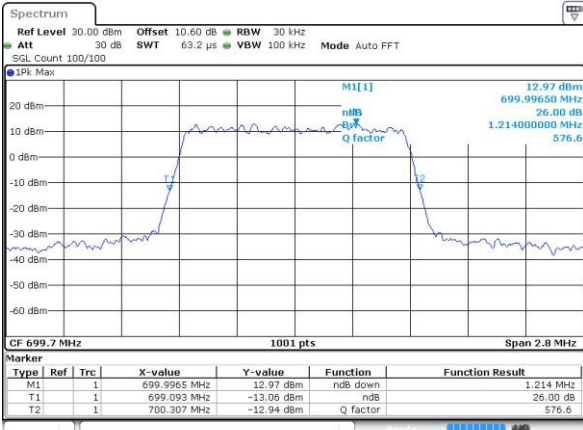
26dB Bandwidth

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	1.214	1.225	2.991	2.997	4.865	4.885	9.83	9.73	-	-	-	-
Middle CH	1.231	1.231	2.997	2.991	4.925	4.895	9.73	9.79	-	-	-	-
Highest CH	1.22	1.211	2.967	3.063	4.935	4.885	9.69	9.81	-	-	-	-
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	1.222	-	3.039	-	4.905	-	9.69	-	-	-	-
Middle CH	-	1.220	-	3.051	-	4.835	-	9.79	-	-	-	-
Highest CH	-	1.222	-	3.009	-	4.885	-	9.85	-	-	-	-



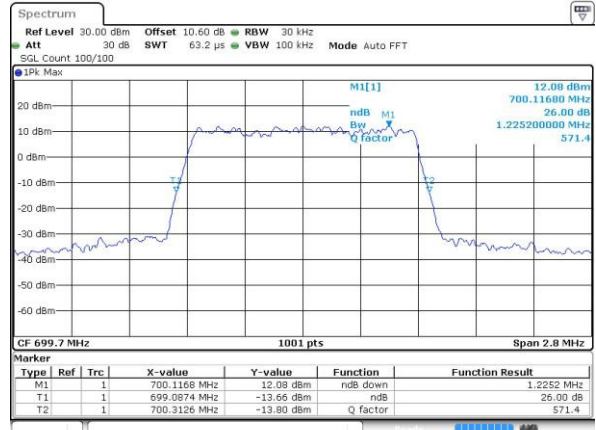
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



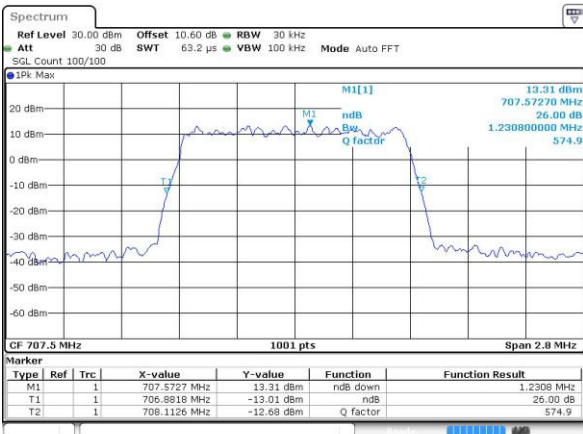
Date: 21 APR 2017 19:00:20

Lowest Channel / 1.4MHz / 16QAM



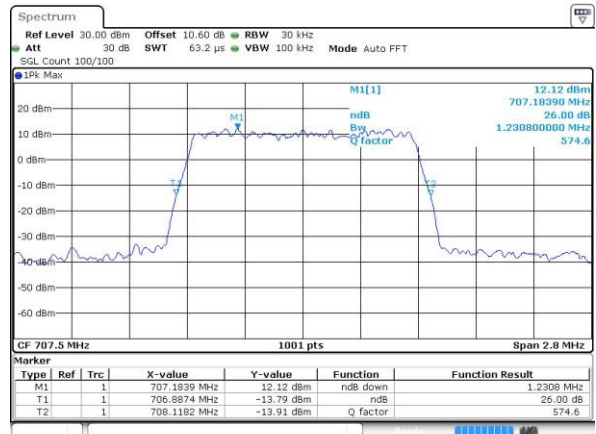
Date: 21 APR 2017 19:00:09

Middle Channel / 1.4MHz / QPSK



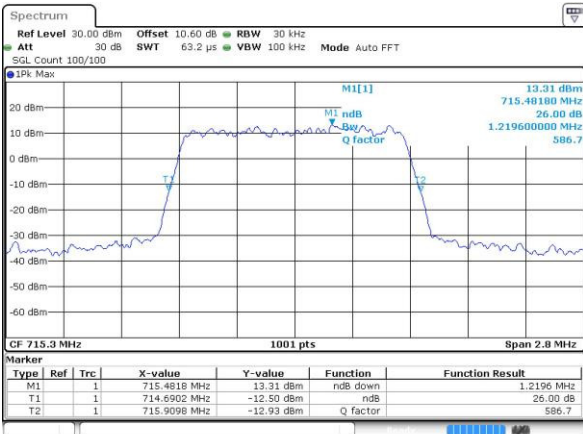
Date: 21 APR 2017 19:07:16

Middle Channel / 1.4MHz / 16QAM



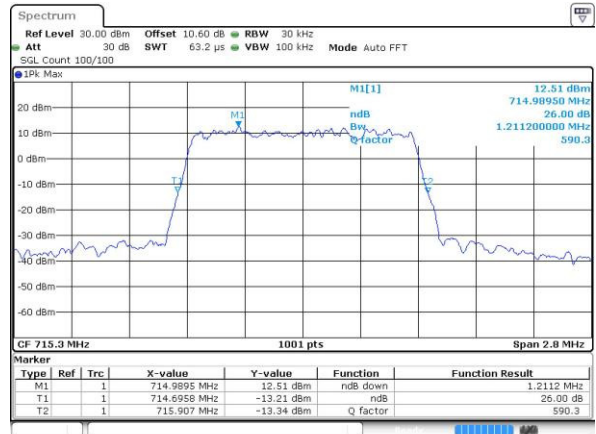
Date: 21 APR 2017 19:07:27

Highest Channel / 1.4MHz / QPSK



Date: 21 APR 2017 19:09:57

Highest Channel / 1.4MHz / 16QAM

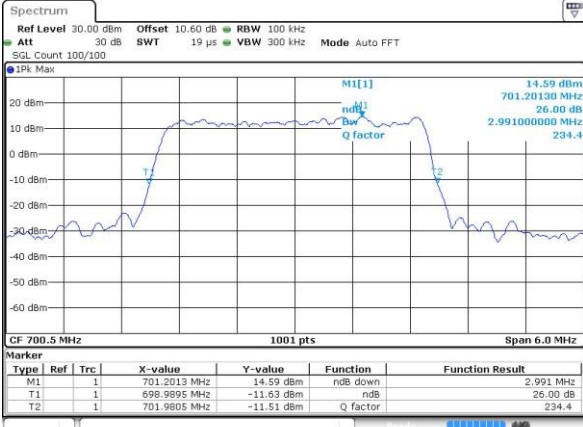


Date: 21 APR 2017 19:09:46



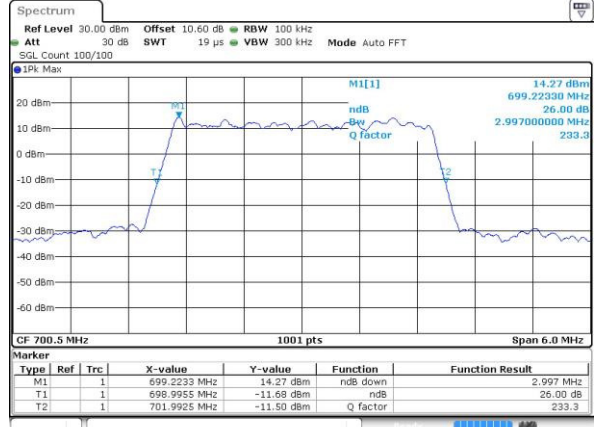
LTE Band 12

Lowest Channel / 3MHz / QPSK



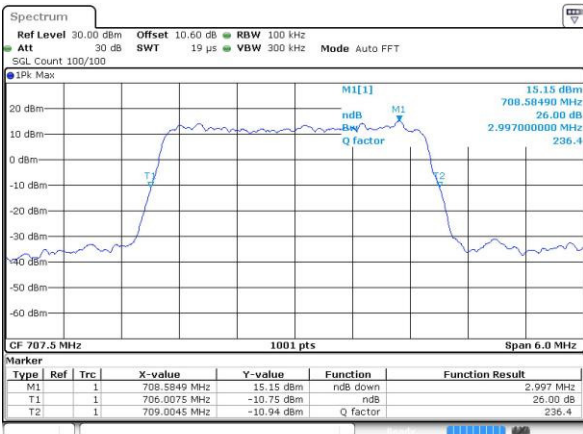
Date: 21 APR 2017 17:56:35

Lowest Channel / 3MHz / 16QAM



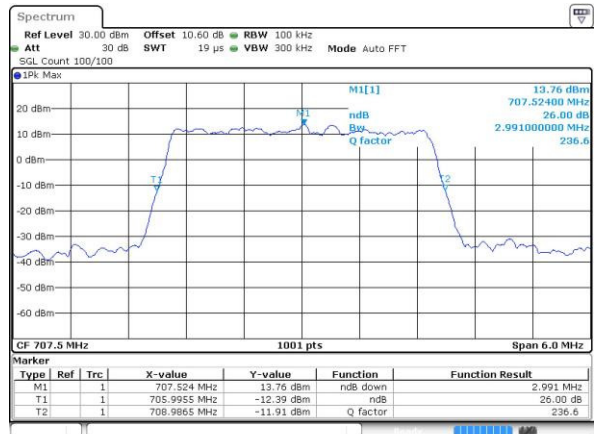
Date: 21 APR 2017 17:56:24

Middle Channel / 3MHz / QPSK



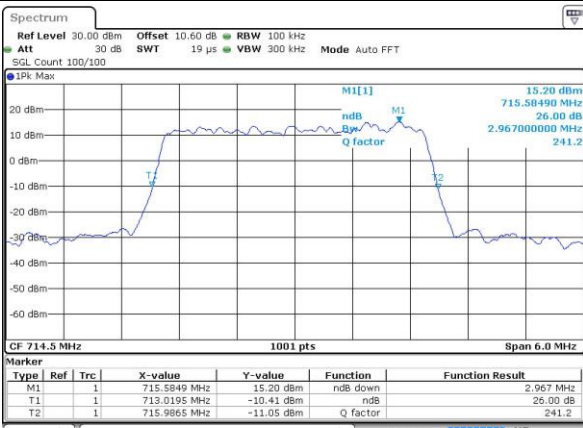
Date: 21 APR 2017 18:03:30

Middle Channel / 3MHz / 16QAM



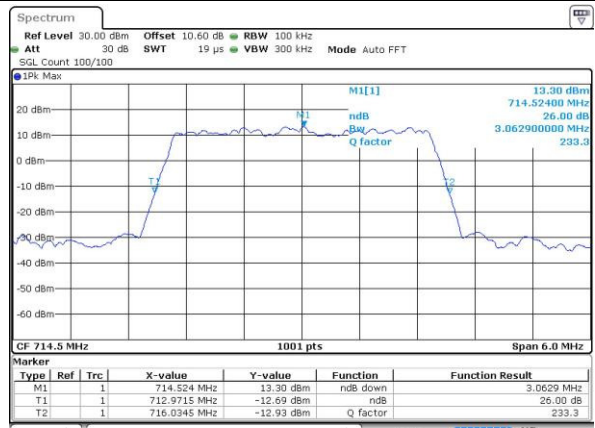
Date: 21 APR 2017 18:03:41

Highest Channel / 3MHz / QPSK



Date: 21 APR 2017 18:06:10

Highest Channel / 3MHz / 16QAM

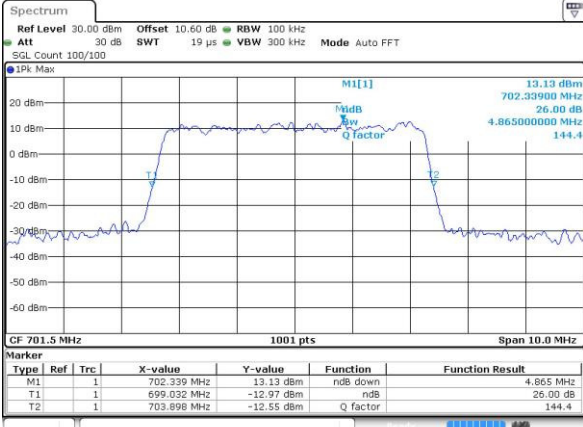


Date: 21 APR 2017 18:06:00



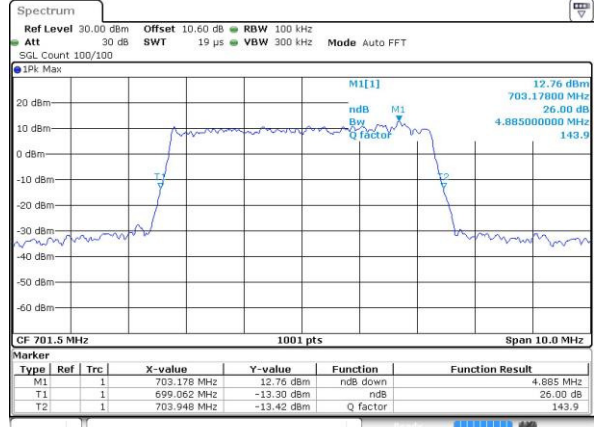
LTE Band 12

Lowest Channel / 5MHz / QPSK



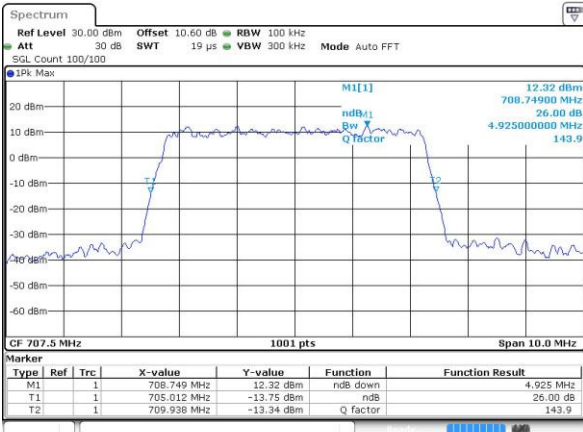
Date: 21 APR 2017 18:13:16

Lowest Channel / 5MHz / 16QAM



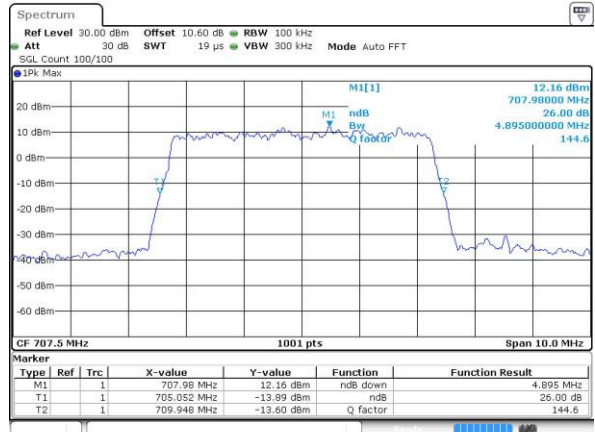
Date: 21 APR 2017 18:13:06

Middle Channel / 5MHz / QPSK



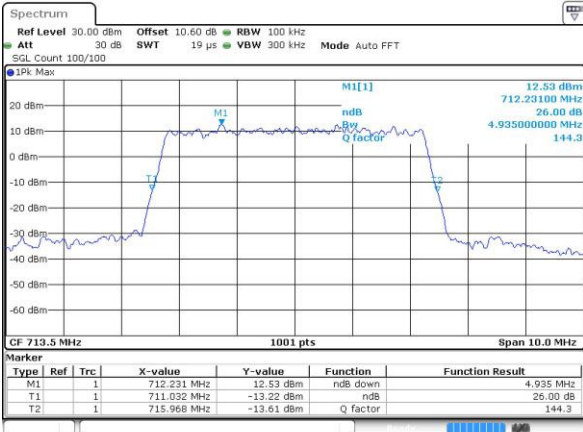
Date: 21 APR 2017 18:20:12

Middle Channel / 5MHz / 16QAM



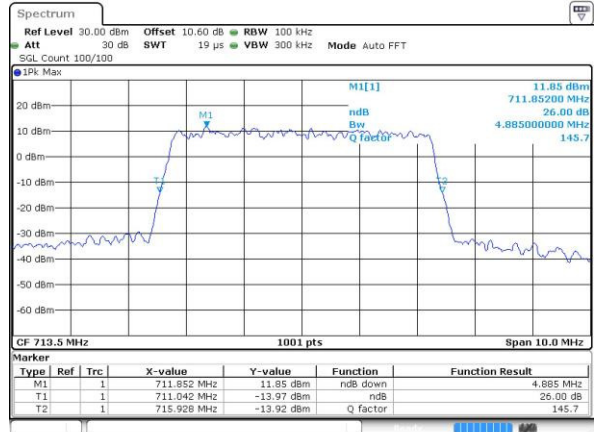
Date: 21 APR 2017 18:20:22

Highest Channel / 5MHz / QPSK



Date: 21 APR 2017 18:22:51

Highest Channel / 5MHz / 16QAM

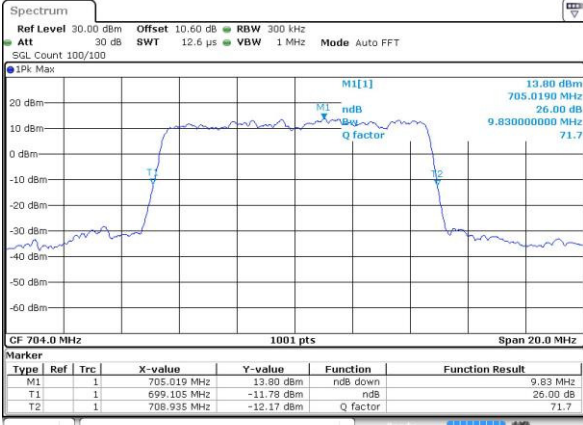


Date: 21 APR 2017 18:22:41



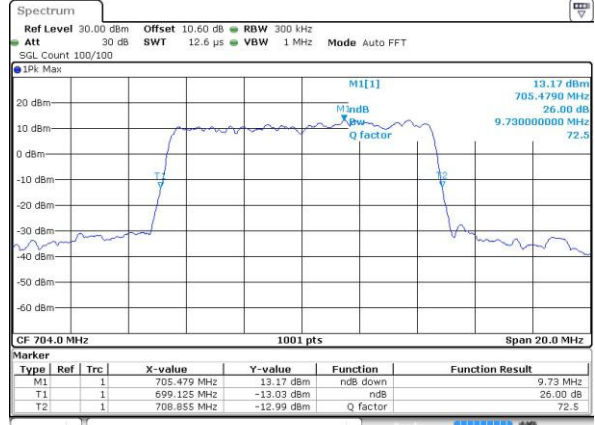
LTE Band 12

Lowest Channel / 10MHz / QPSK



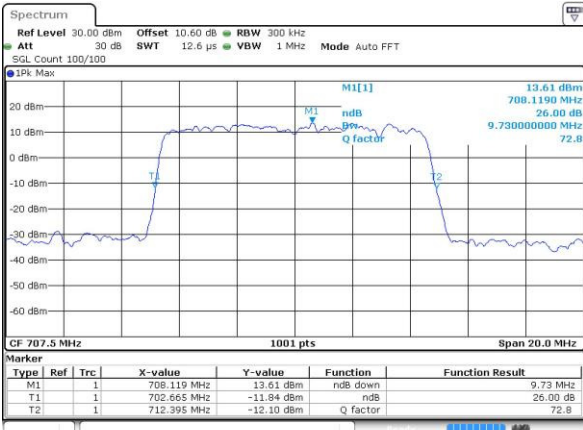
Date: 21 APR 2017 18:29:57

Lowest Channel / 10MHz / 16QAM



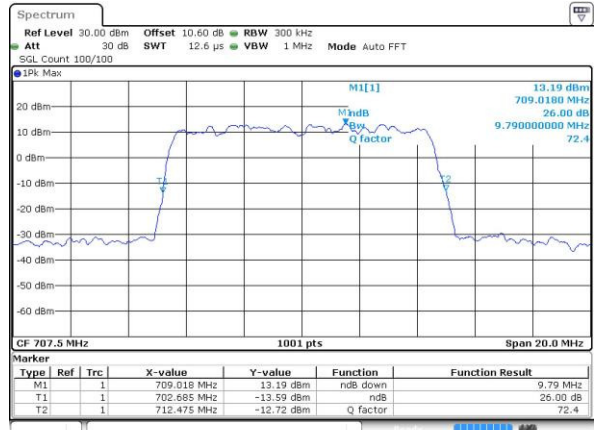
Date: 21 APR 2017 18:29:47

Middle Channel / 10MHz / QPSK



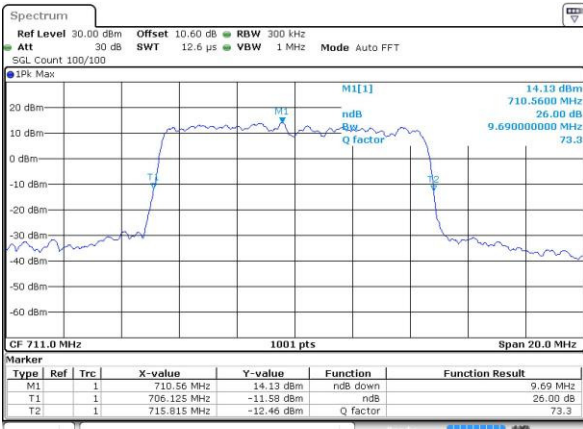
Date: 21 APR 2017 18:36:53

Middle Channel / 10MHz / 16QAM



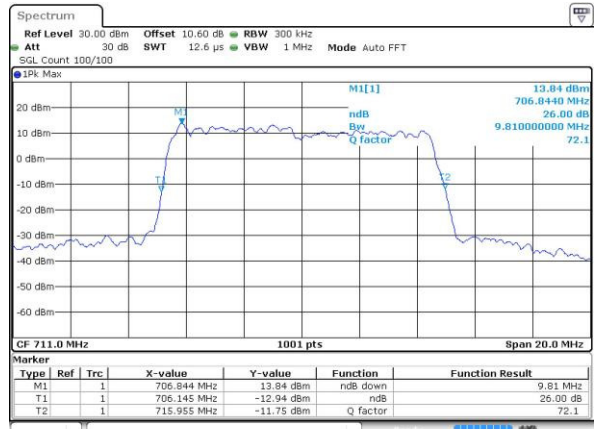
Date: 21 APR 2017 18:37:03

Highest Channel / 10MHz / QPSK



Date: 21 APR 2017 18:39:33

Highest Channel / 10MHz / 16QAM

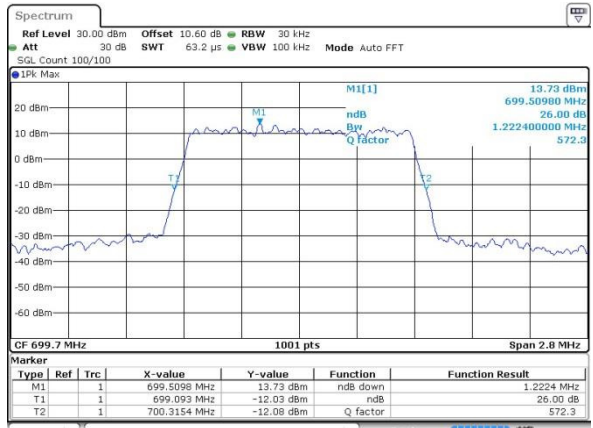


Date: 21 APR 2017 18:39:22



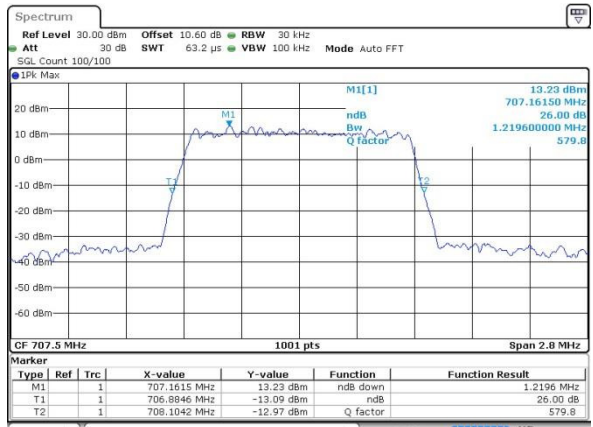
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



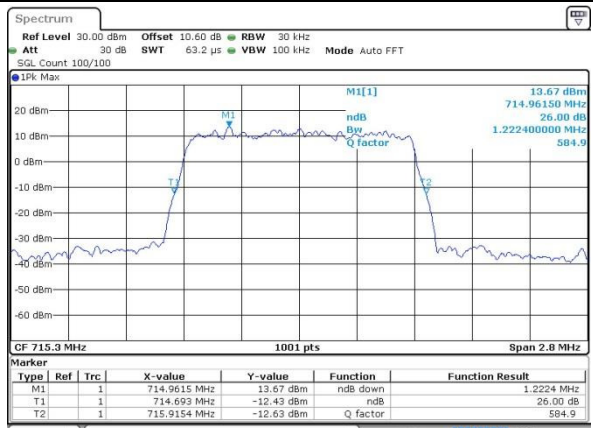
Date: 28 APR 2017 14:18:06

Middle Channel / 1.4MHz / 64QAM



Date: 28 APR 2017 14:21:40

Highest Channel / 1.4MHz / 64QAM

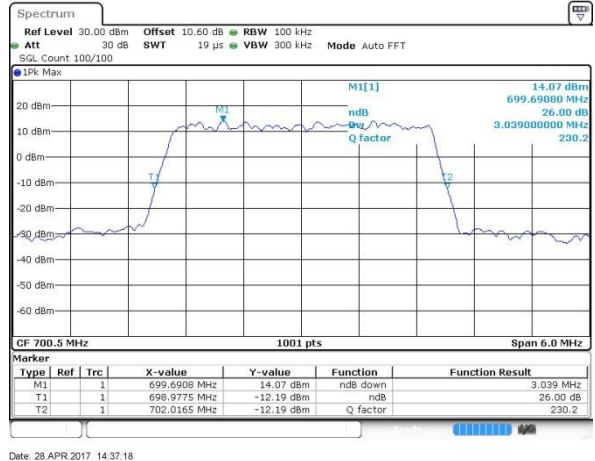


Date: 28 APR 2017 14:22:55

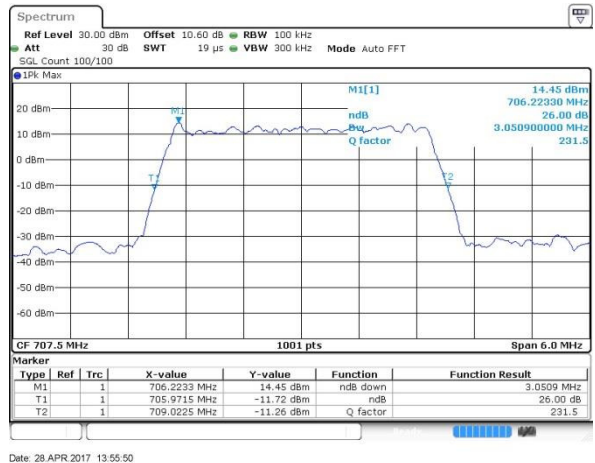


LTE Band 12

Lowest Channel / 3MHz / 64QAM



Middle Channel / 3MHz / 64QAM



Highest Channel / 3MHz / 64QAM

