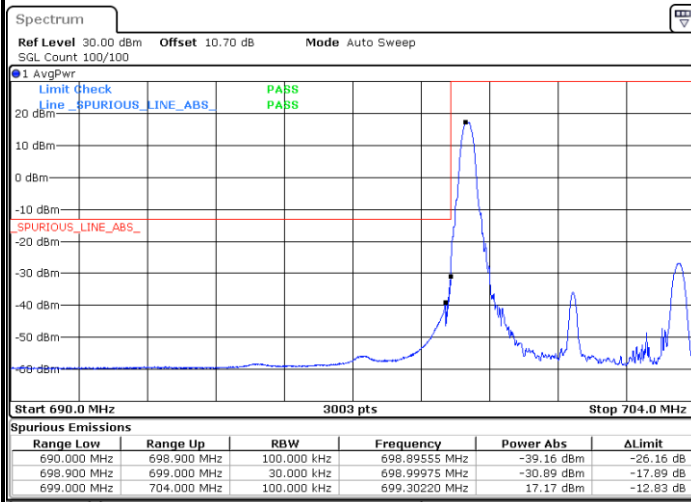


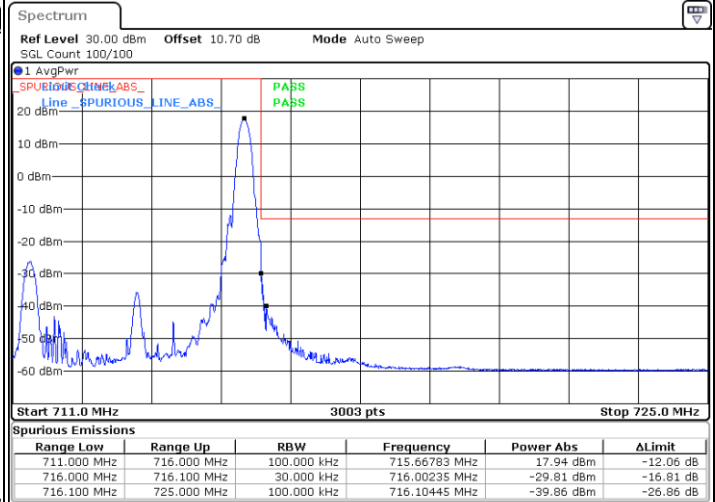


LTE Band 12 / 5MHz / 64QAM

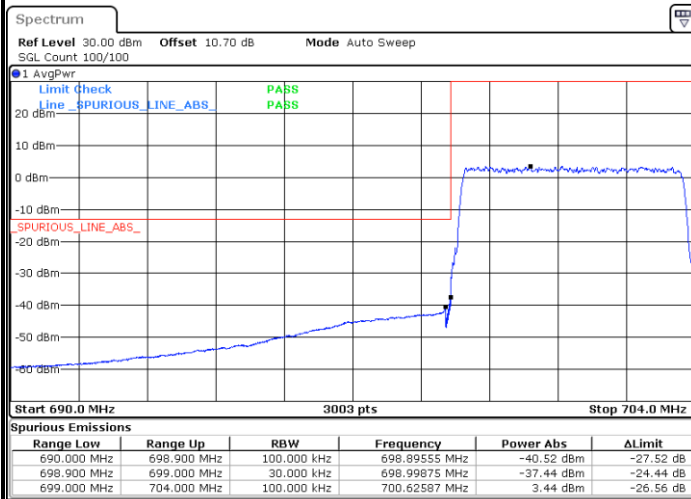
Lowest Band Edge / 1RB



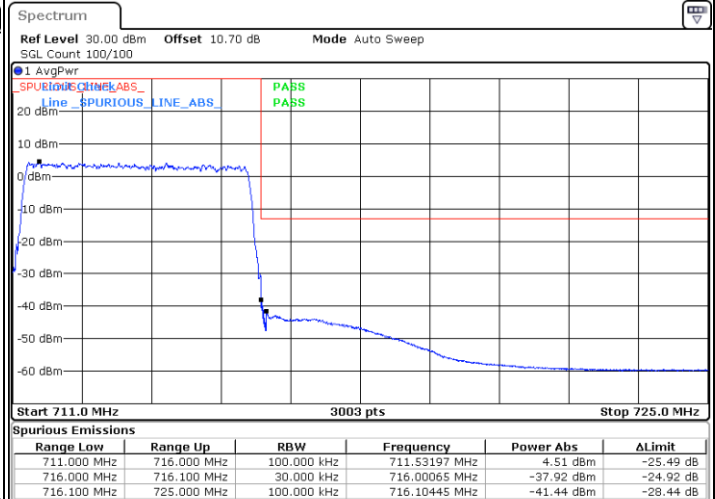
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



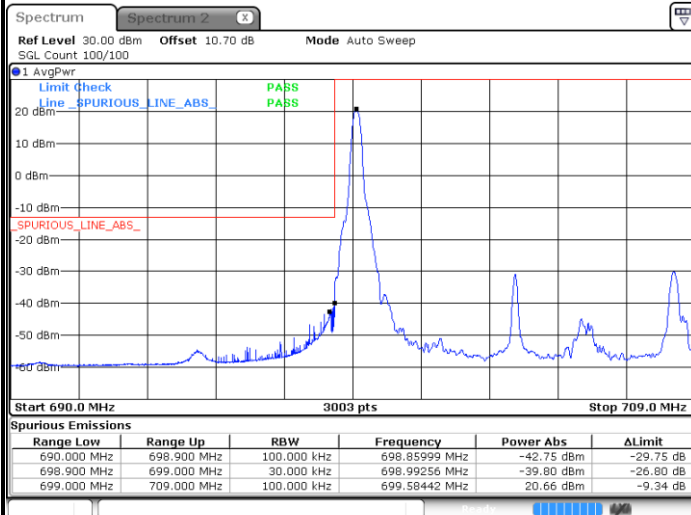
Highest Band Edge / Full RB



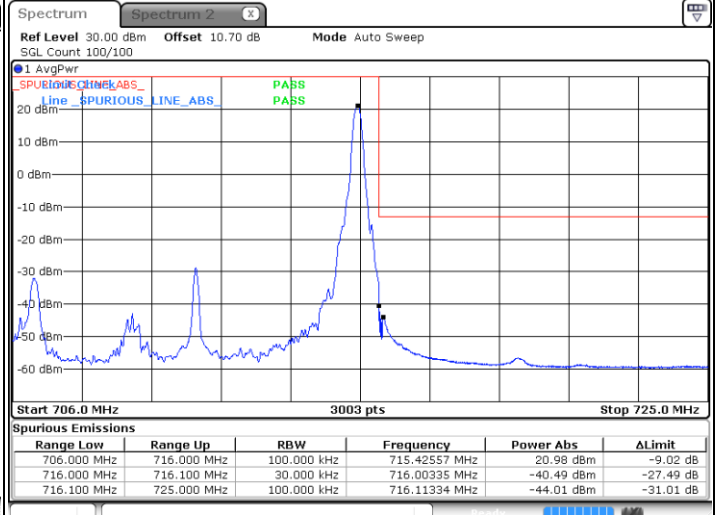


LTE Band 12 / 10MHz / QPSK

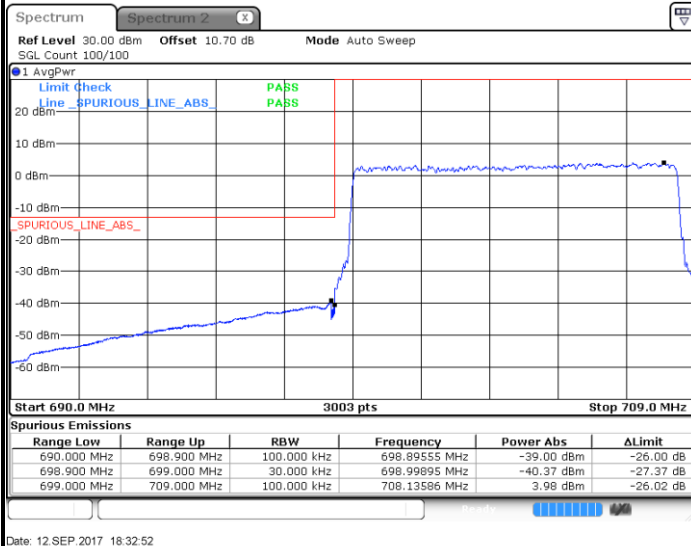
Lowest Band Edge / 1 RB



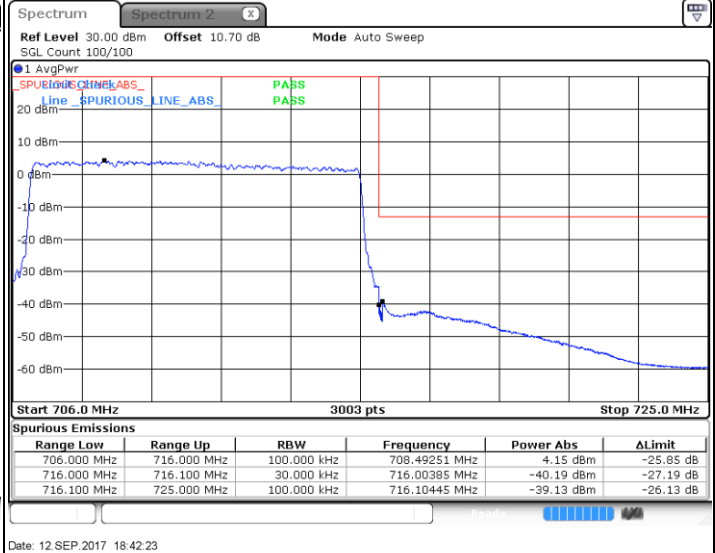
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



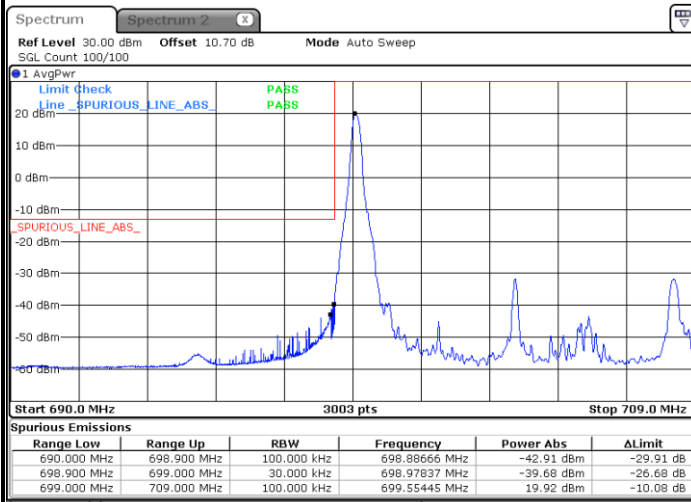
Highest Band Edge / Full RB



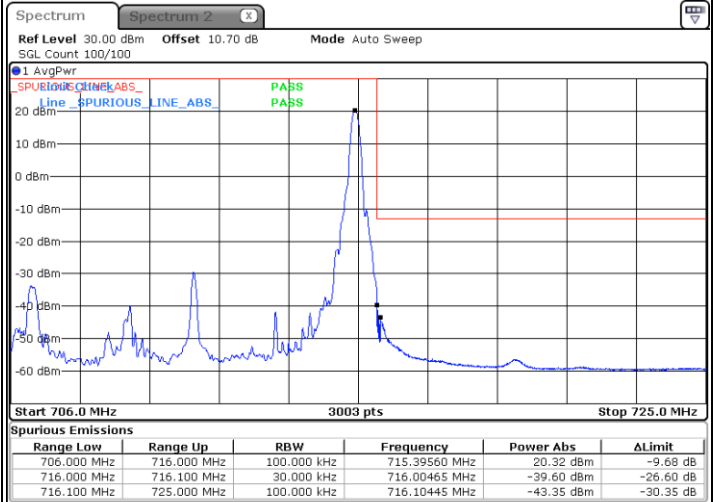


LTE Band 12 / 10MHz / 16QAM

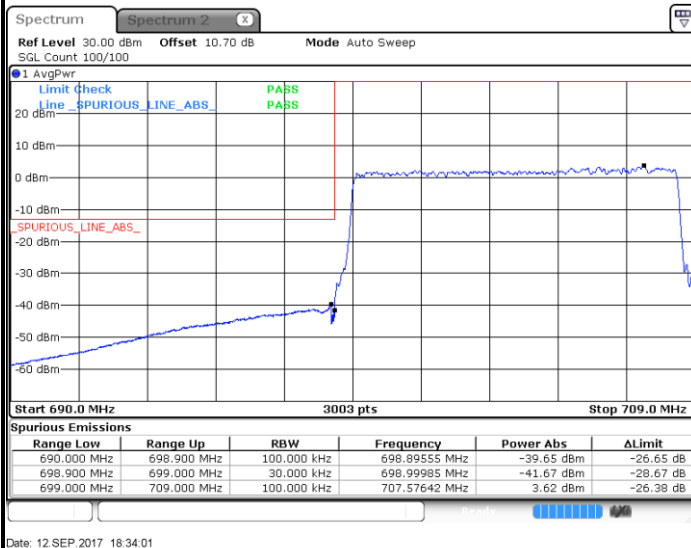
Lowest Band Edge / 1 RB



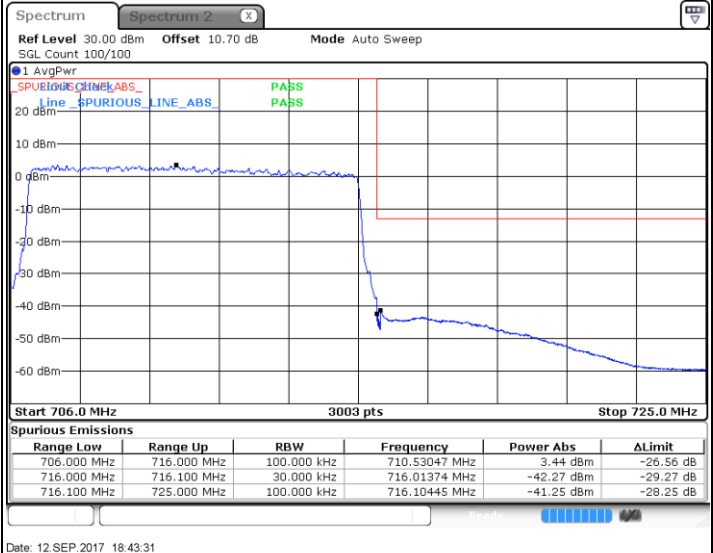
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



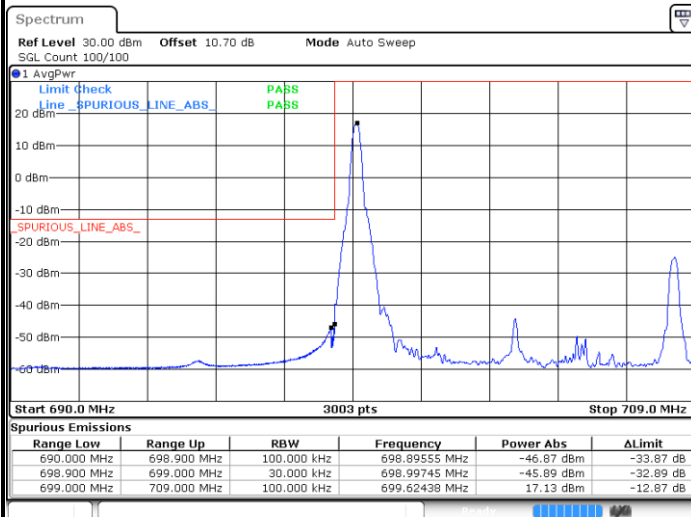
Highest Band Edge / Full RB



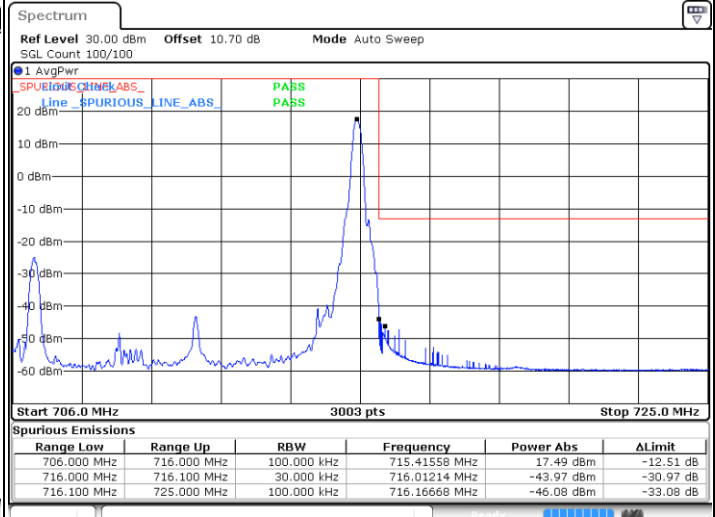


LTE Band 12 / 10MHz / 64QAM

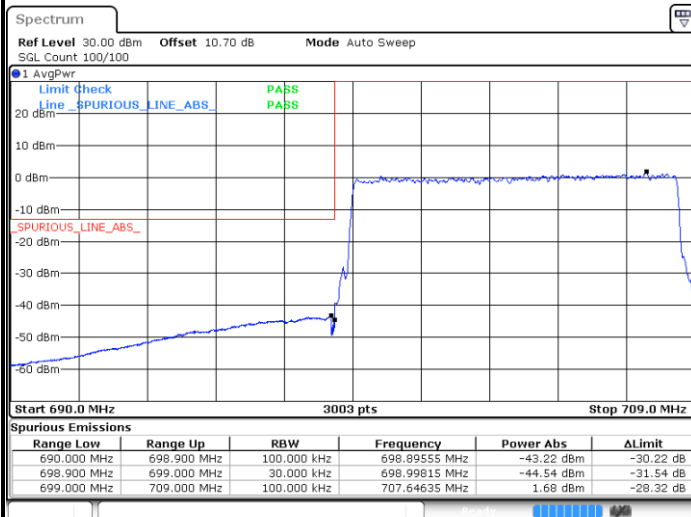
Lowest Band Edge / 1 RB



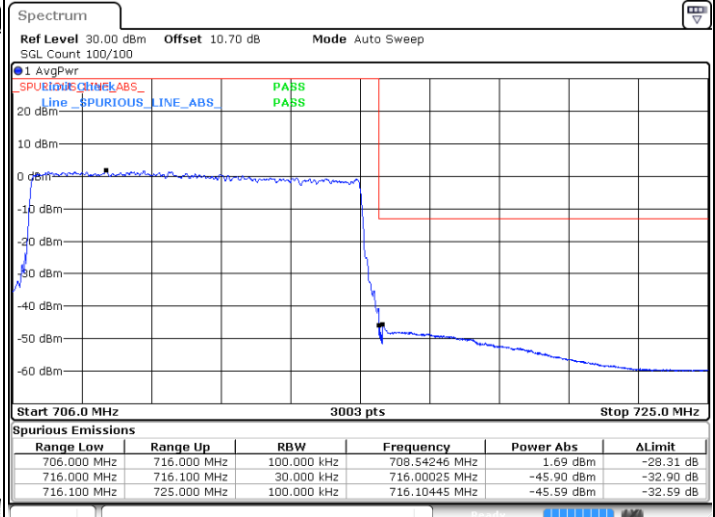
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



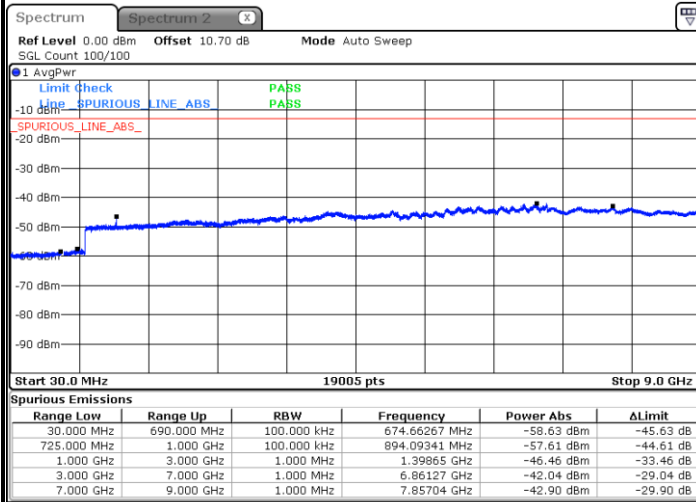


Conducted Spurious Emission



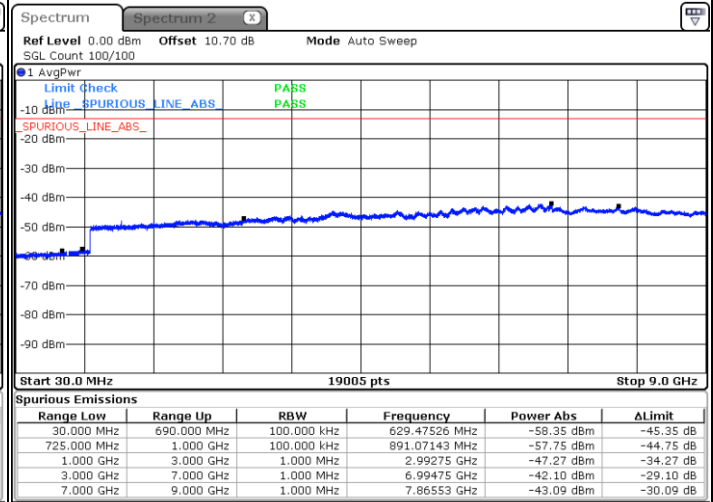
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



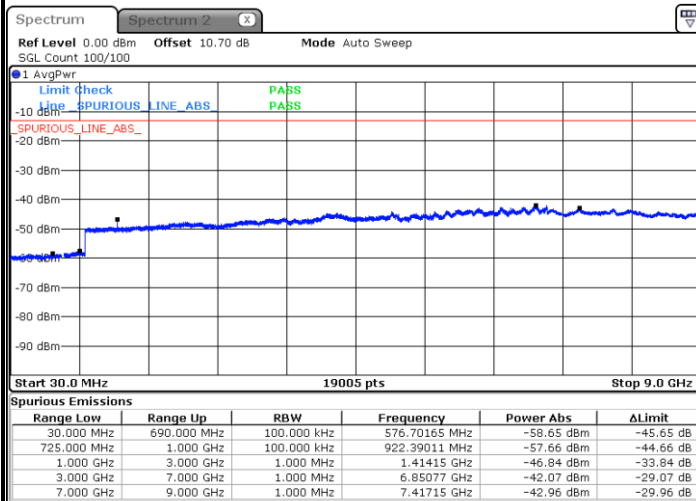
Date: 12 SEP. 2017 19:25:02

Lowest Channel / 16QAM



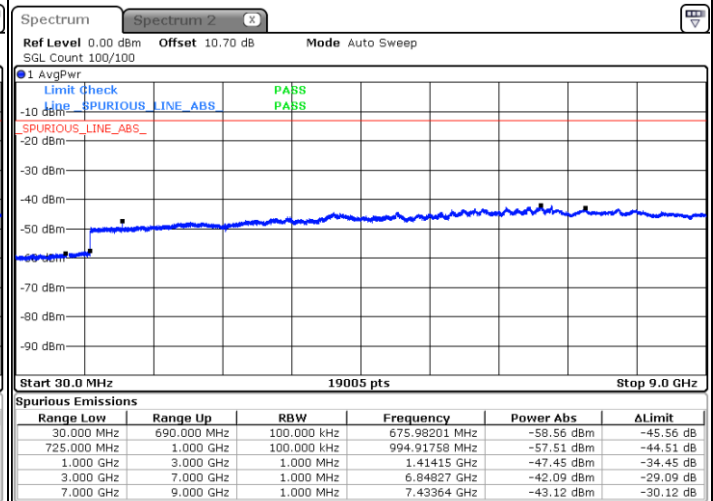
Date: 12 SEP. 2017 19:25:56

Middle Channel / QPSK



Date: 12 SEP. 2017 19:28:23

Middle Channel / 16QAM

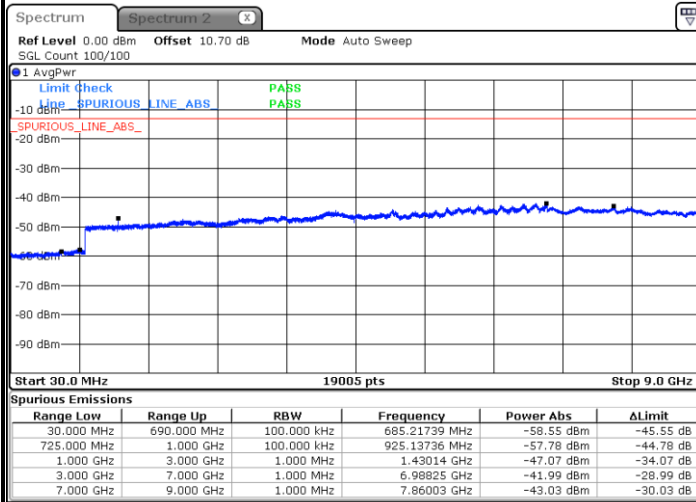


Date: 12 SEP. 2017 19:27:29



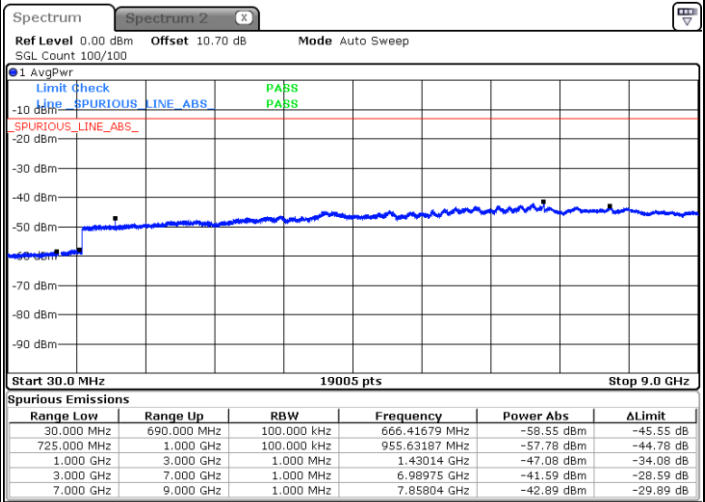
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 12 SEP. 2017 19:34:32

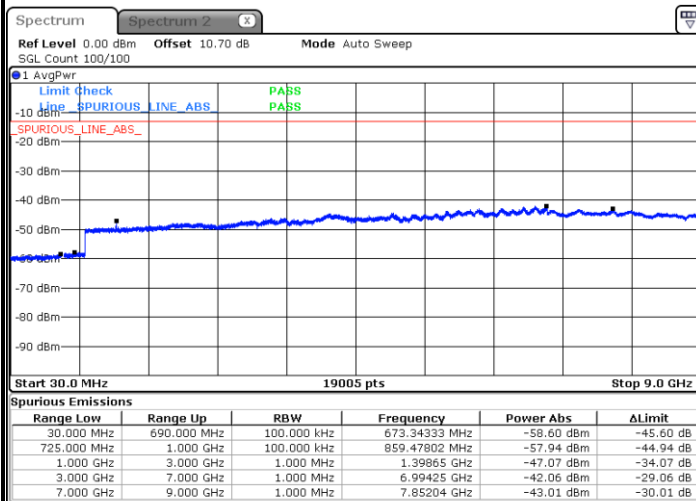
Highest Channel / 16QAM



Date: 12 SEP. 2017 19:35:25

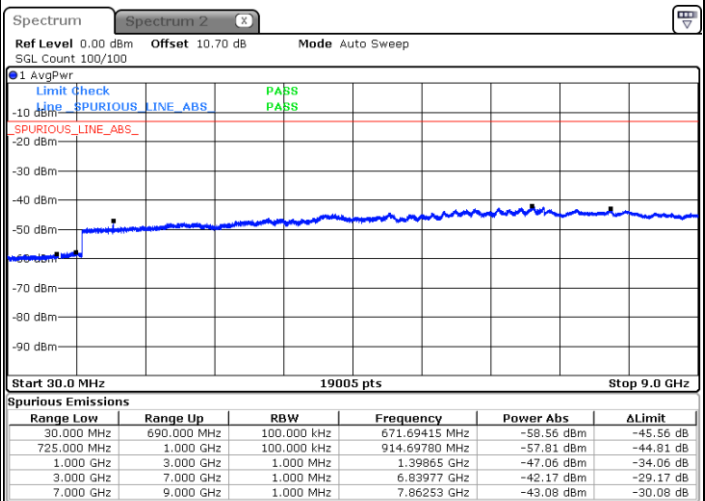
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 12 SEP. 2017 18:04:08

Lowest Channel / 16QAM

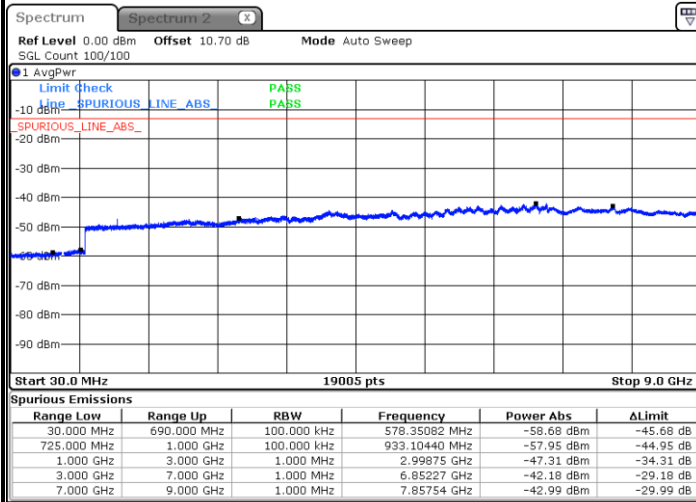


Date: 12 SEP. 2017 18:05:02



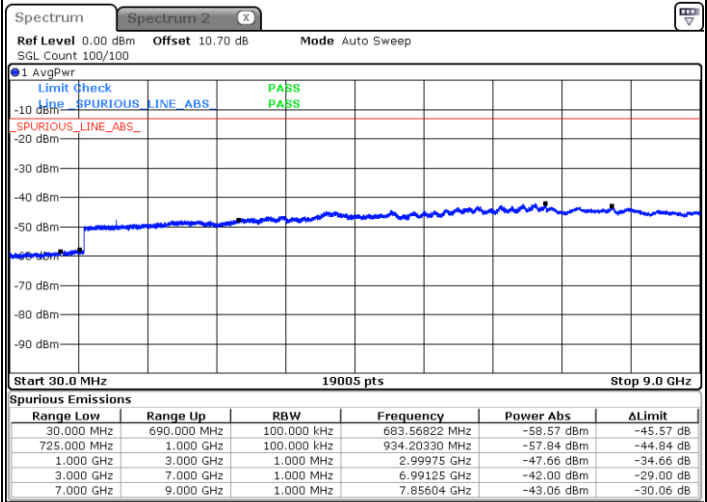
LTE Band 12 / 3MHz

Middle Channel / QPSK



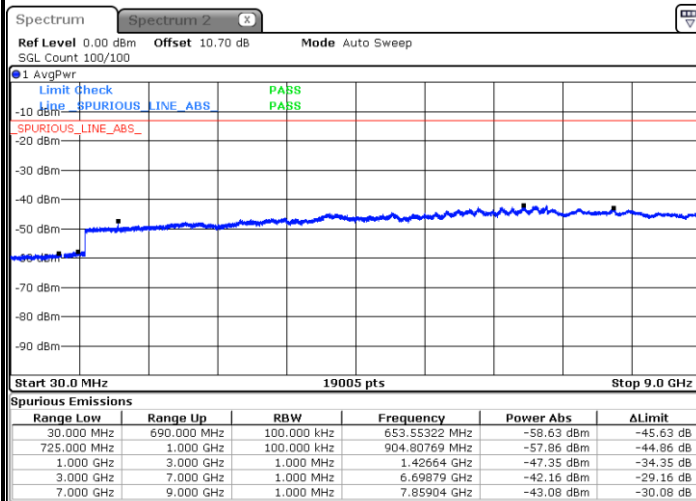
Date: 12 SEP. 2017 18:07:29

Middle Channel / 16QAM



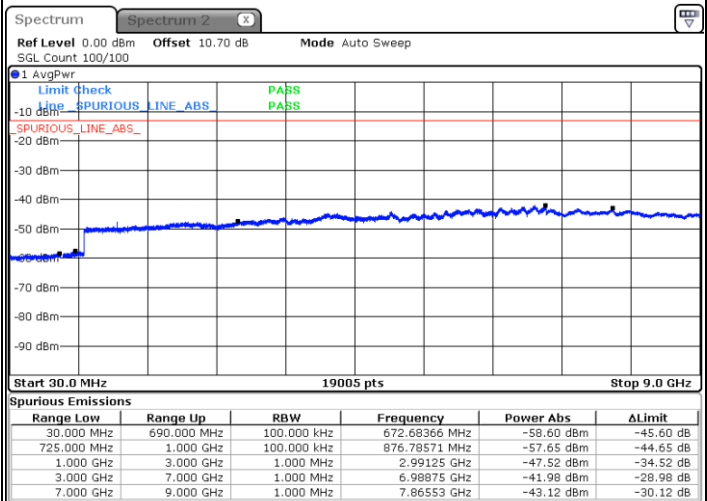
Date: 12 SEP. 2017 18:06:36

Highest Channel / QPSK



Date: 12 SEP. 2017 18:13:38

Highest Channel / 16QAM

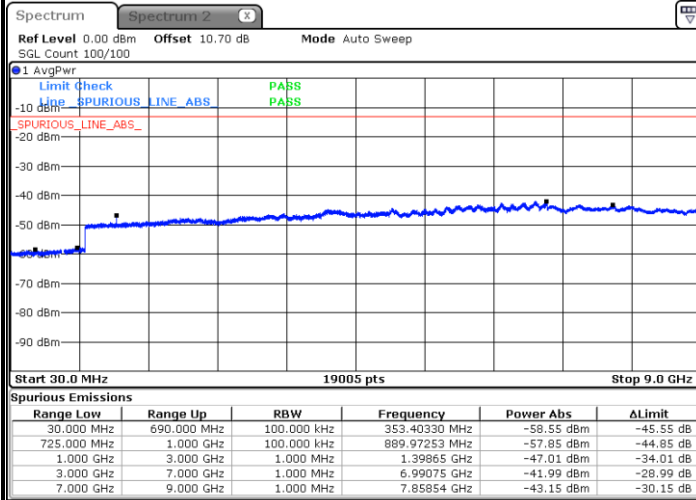


Date: 12 SEP. 2017 18:14:32



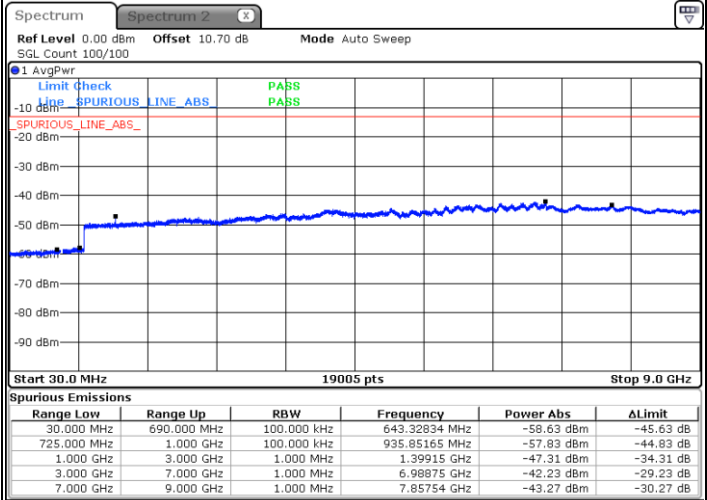
LTE Band 12 / 5MHz

Lowest Channel / QPSK



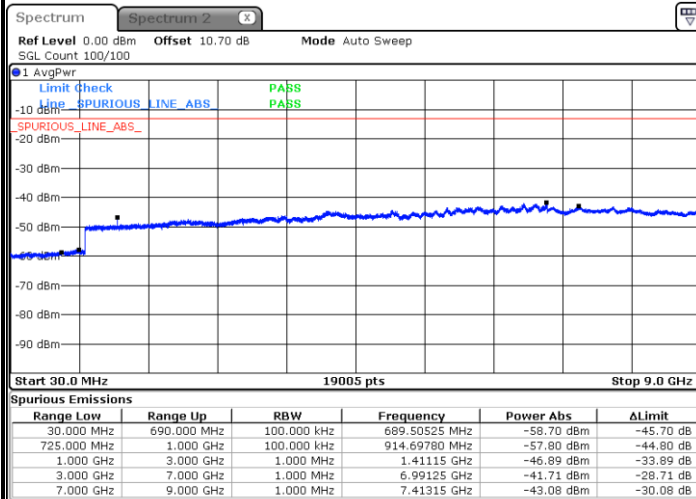
Date: 12 SEP. 2017 18:20:41

Lowest Channel / 16QAM



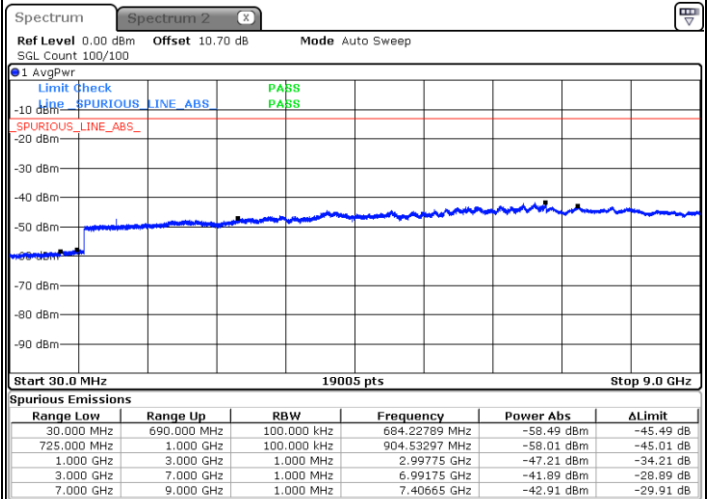
Date: 12 SEP. 2017 18:21:34

Middle Channel / QPSK



Date: 12 SEP. 2017 18:24:02

Middle Channel / 16QAM

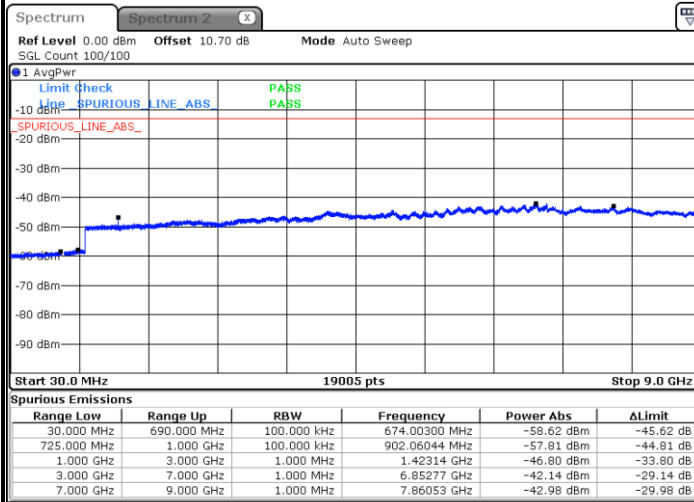


Date: 12 SEP. 2017 18:23:08



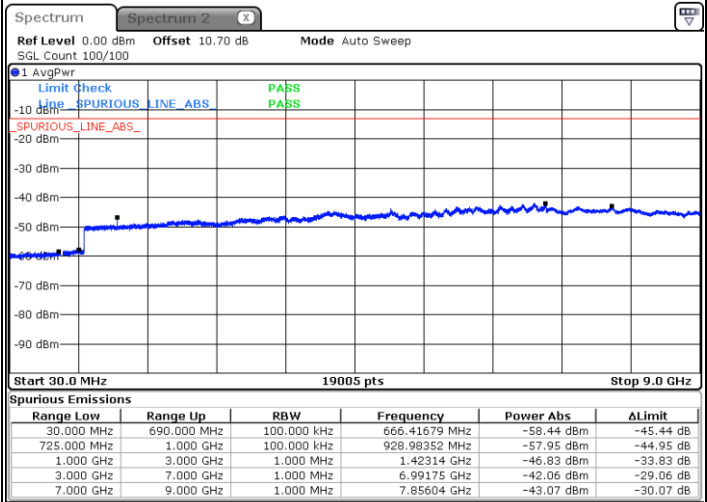
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 12 SEP. 2017 18:31:04

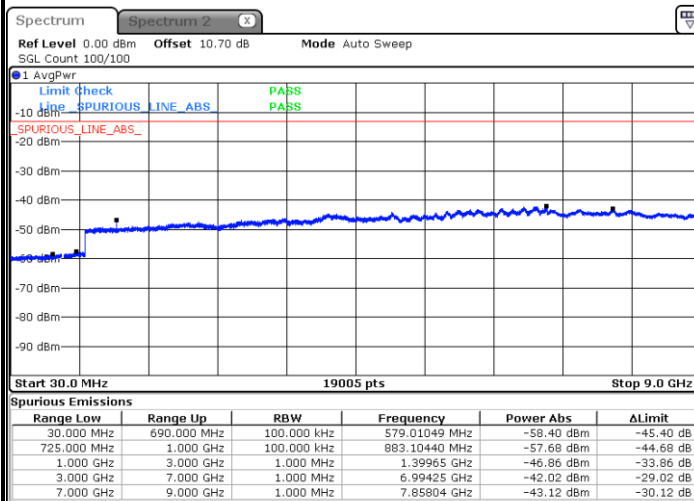
Highest Channel / 16QAM



Date: 12 SEP. 2017 18:30:11

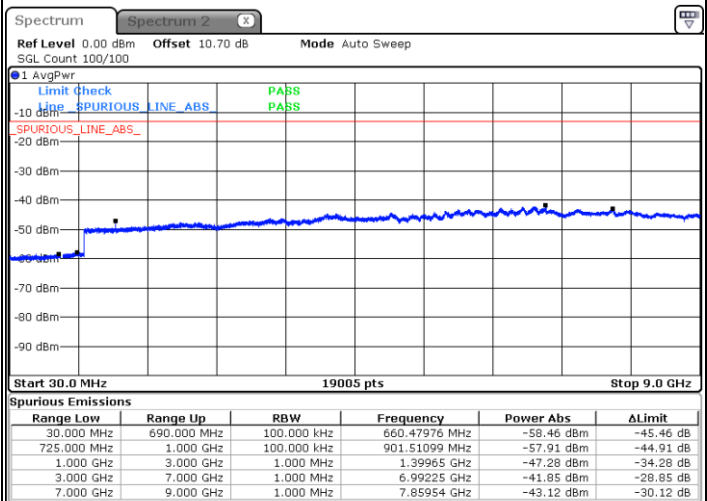
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 12 SEP. 2017 18:37:13

Lowest Channel / 16QAM

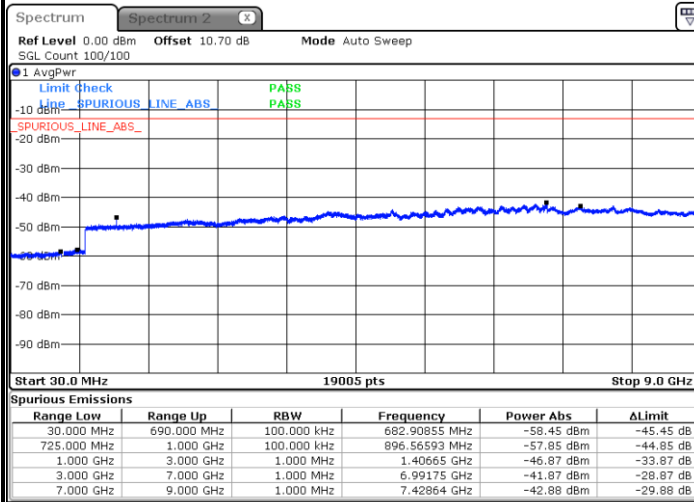


Date: 12 SEP. 2017 18:38:07



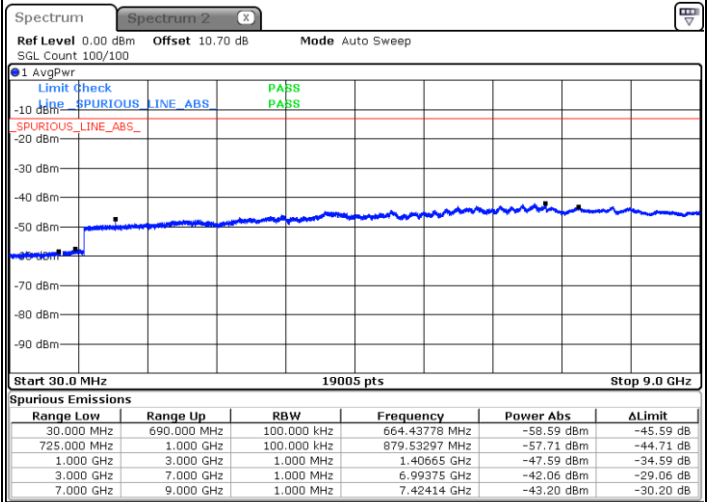
LTE Band 12 / 10MHz

Middle Channel / QPSK



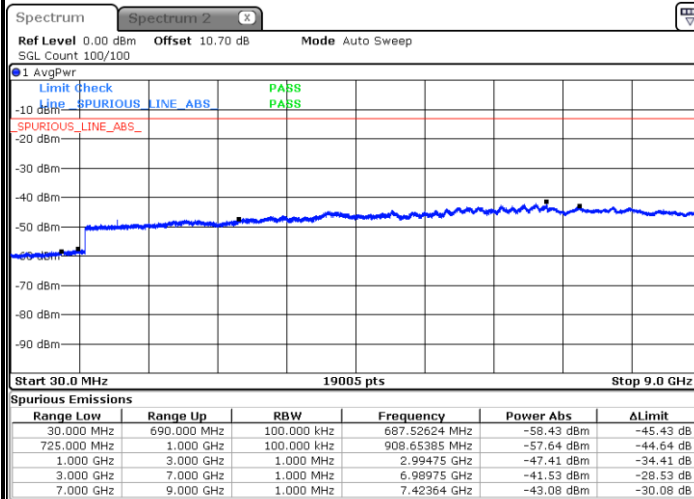
Date: 12 SEP. 2017 18:40:34

Middle Channel / 16QAM



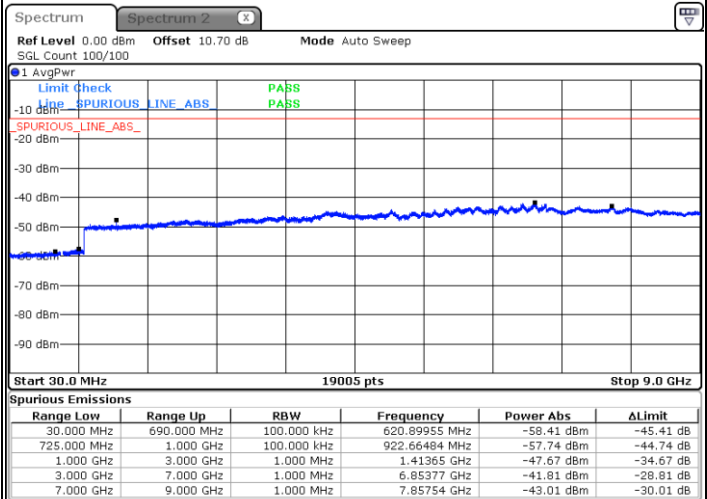
Date: 12 SEP. 2017 18:39:41

Highest Channel / QPSK



Date: 12 SEP. 2017 18:46:43

Highest Channel / 16QAM

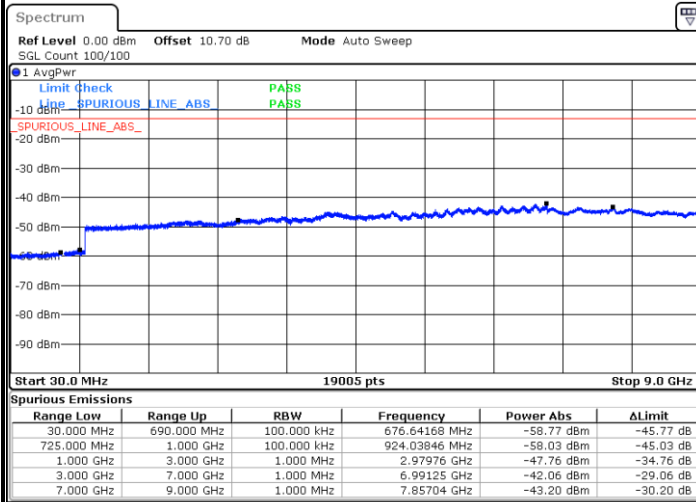


Date: 12 SEP. 2017 18:47:37



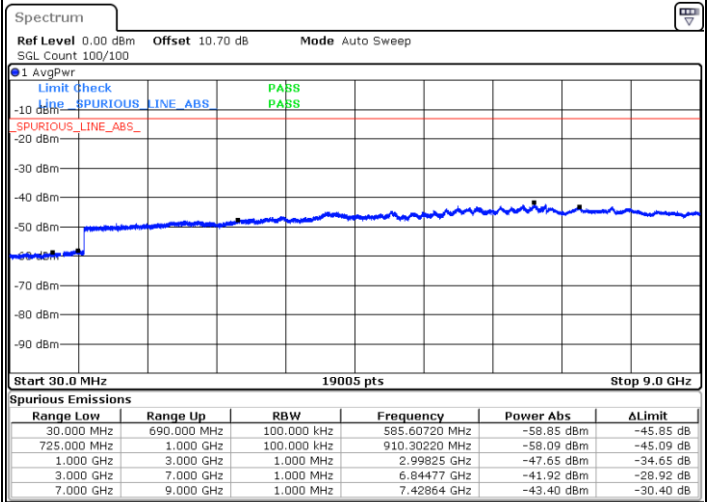
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



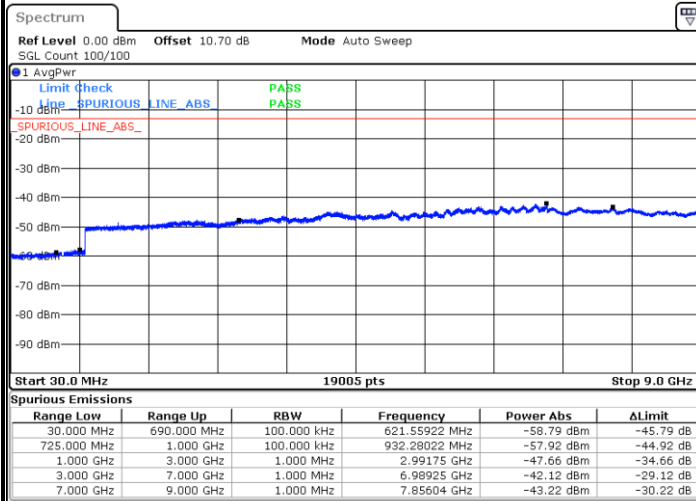
Date: 28 SEP.2017 23:23:56

Middle Channel / 64QAM



Date: 28 SEP.2017 23:25:10

Highest Channel / 64QAM

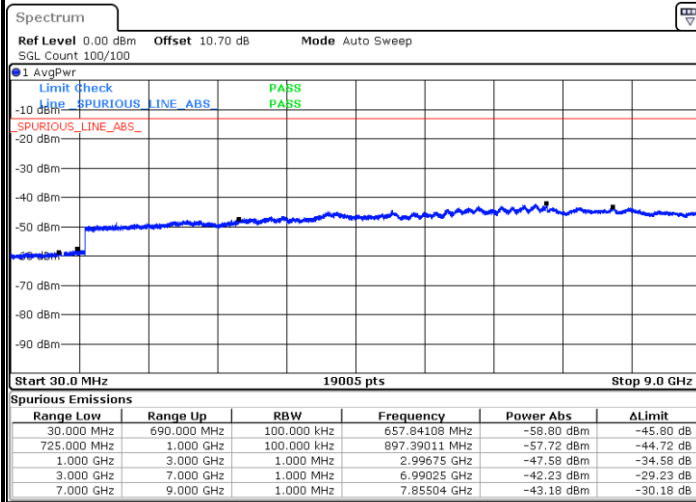


Date: 28 SEP.2017 23:28:42



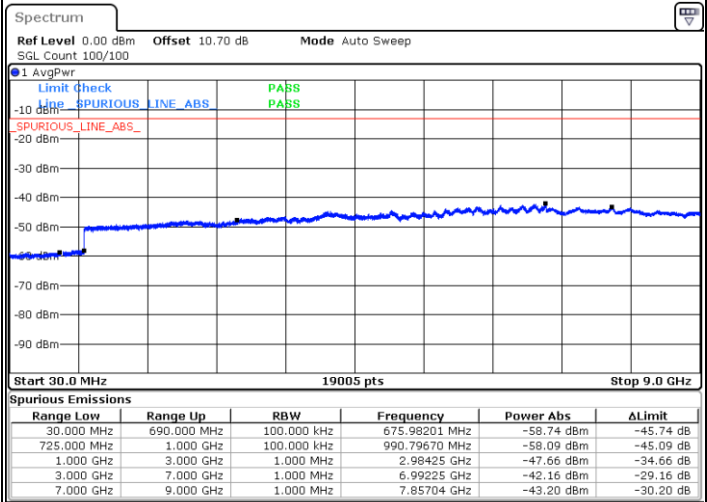
LTE Band 12 / 3MHz

Lowest Channel / 64QAM



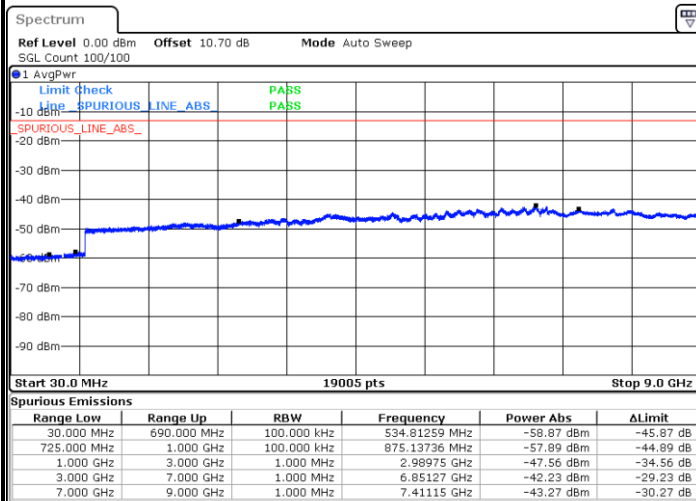
Date: 28 SEP.2017 22:51:26

Middle Channel / 64QAM



Date: 28 SEP.2017 22:52:40

Highest Channel / 64QAM

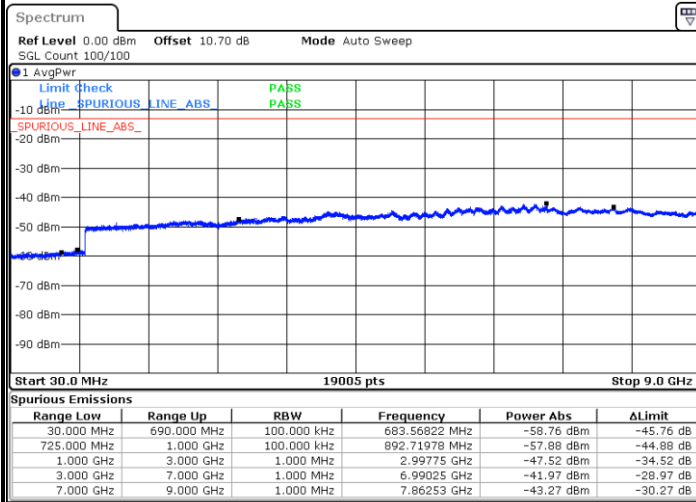


Date: 28 SEP.2017 22:56:11



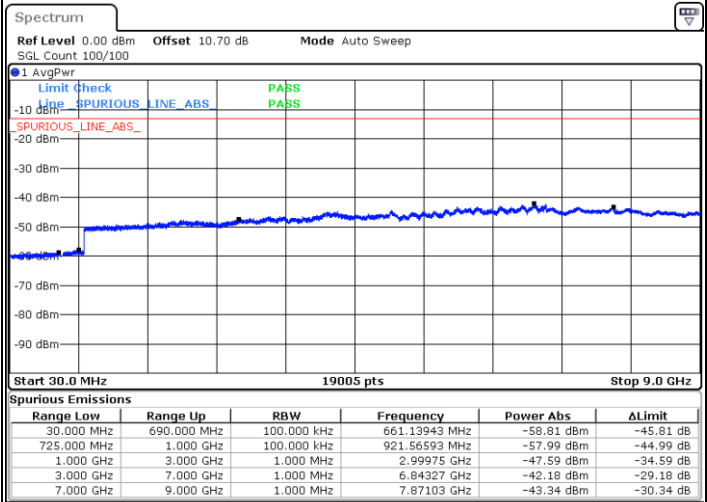
LTE Band 12 / 5MHz

Lowest Channel / 64QAM



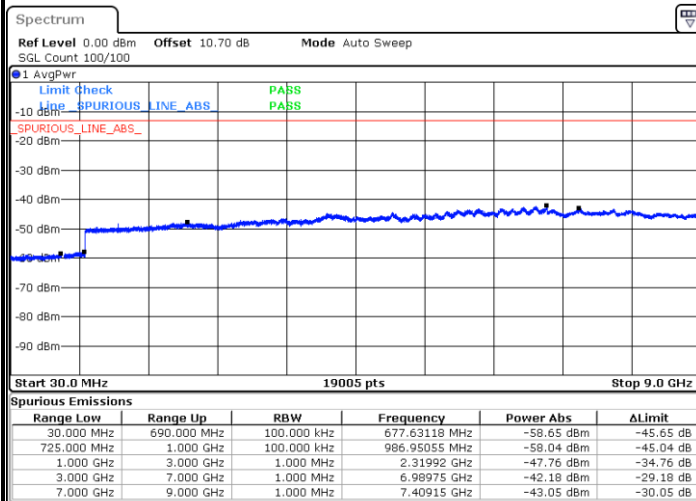
Date: 28 SEP.2017 22:59:43

Middle Channel / 64QAM



Date: 28 SEP.2017 23:00:56

Highest Channel / 64QAM

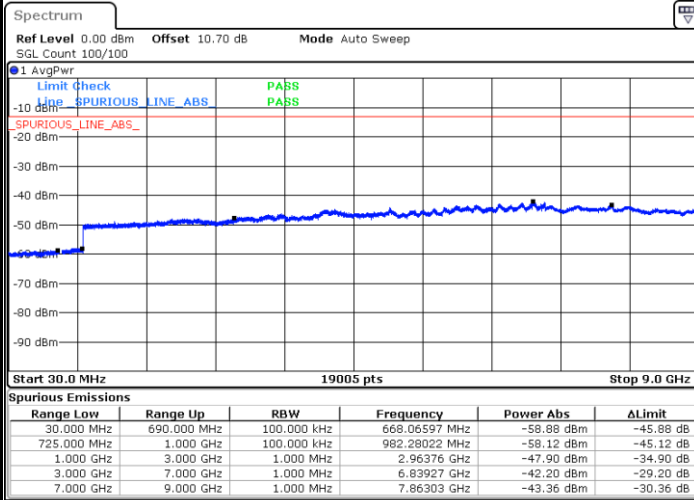


Date: 28 SEP.2017 23:12:09



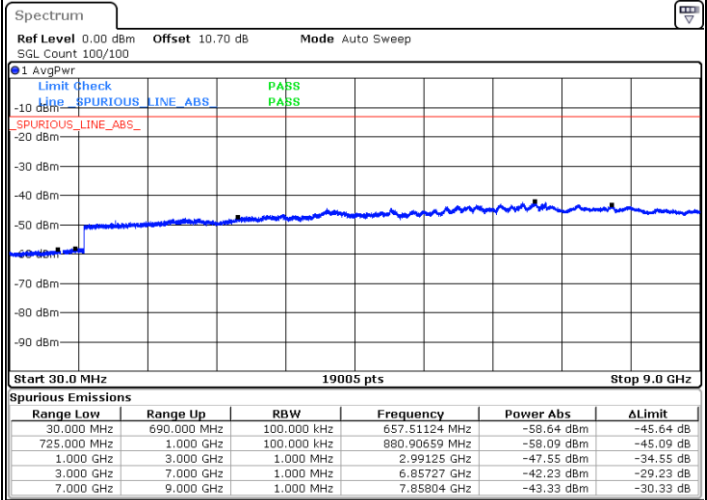
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



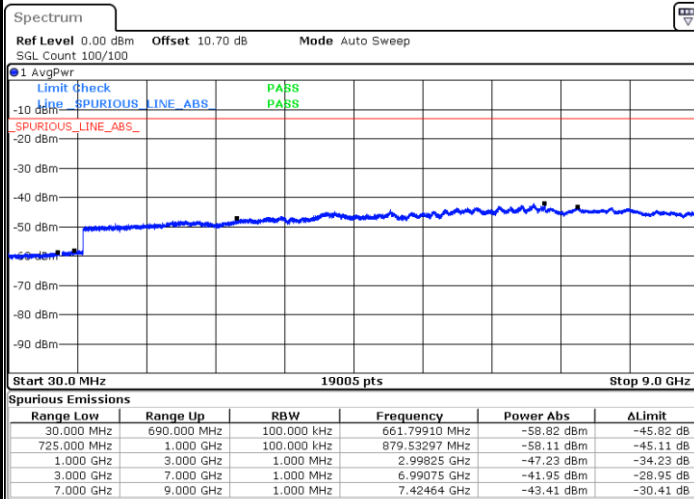
Date: 28 SEP.2017 23:15:40

Middle Channel / 64QAM



Date: 28 SEP.2017 23:16:54

Highest Channel / 64QAM



Date: 28 SEP.2017 23:20:25

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0112	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0112	
-10	Normal Voltage	0.0112	
-20	Normal Voltage	0.0116	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0124	

Note:

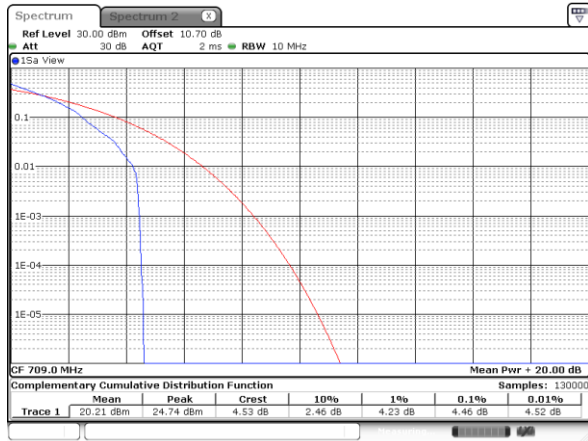
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



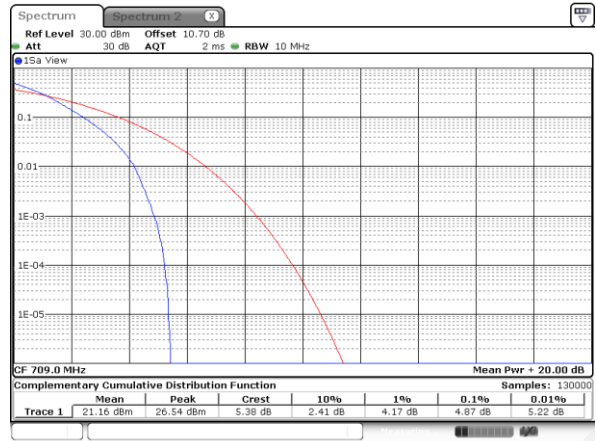
LTE Band 17

Peak-to-Average Ratio

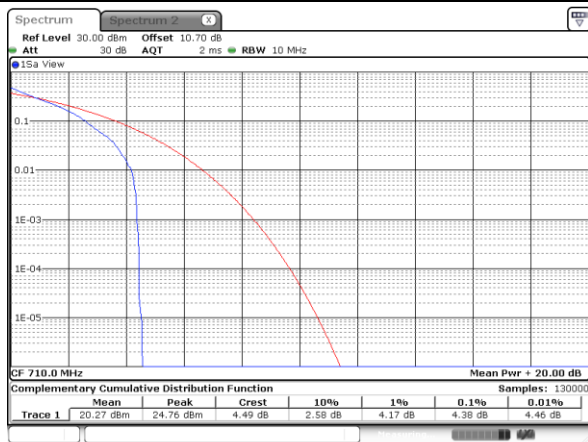
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.46	4.87	5.33	5.77	PASS
Middle CH	4.38	4.93	4.87	5.8	
Highest CH	4.32	4.9	5.1	5.77	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.52	6.26	-	-	PASS
Middle CH	6.38	6.38	-	-	
Highest CH	6.14	6.41	-	-	

LTE Band 17 / 10MHz / QPSK
Lowest Channel / 1RB


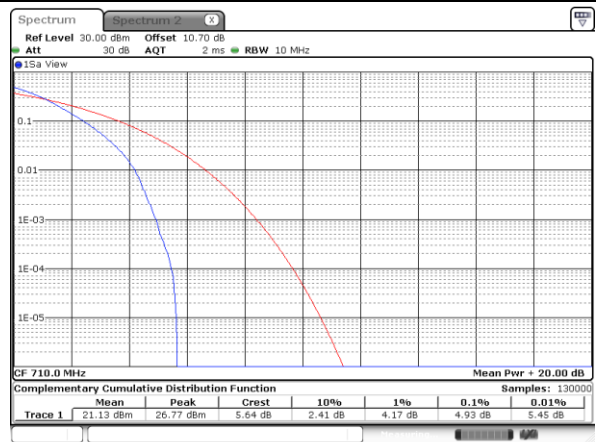
Date: 12 SEP 2017 19:50:42

Lowest Channel / Full RB


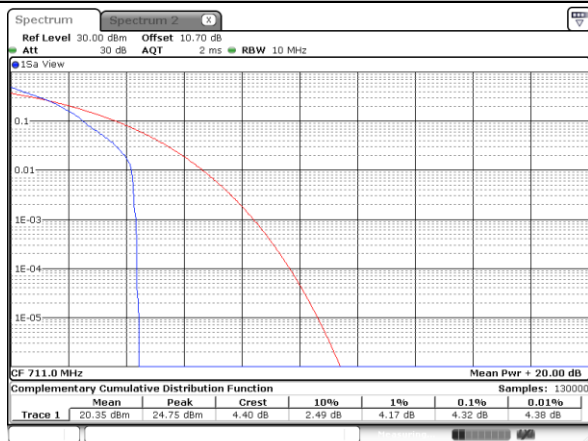
Date: 12 SEP 2017 19:50:55

Middle Channel / 1RB


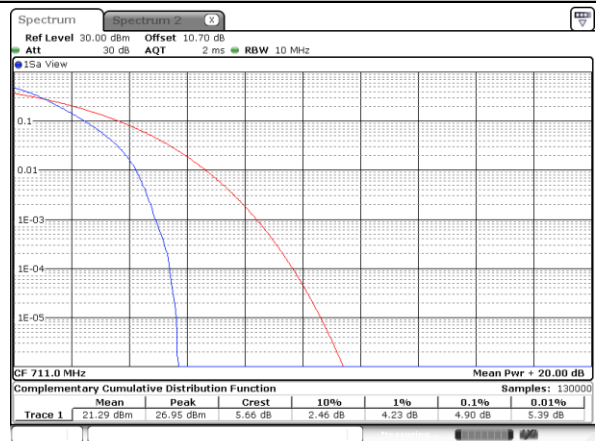
Date: 12 SEP 2017 19:51:20

Middle Channel / Full RB


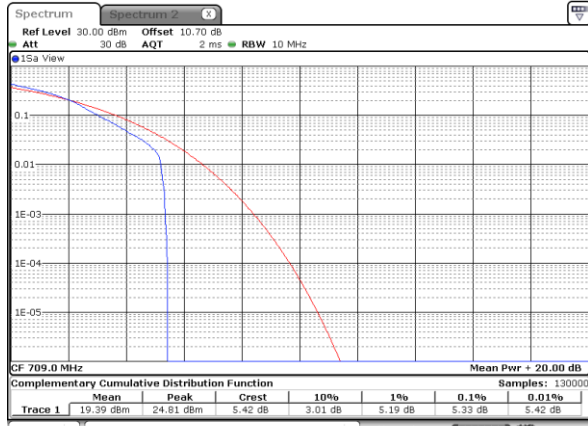
Date: 12 SEP 2017 19:51:29

Highest Channel / 1RB


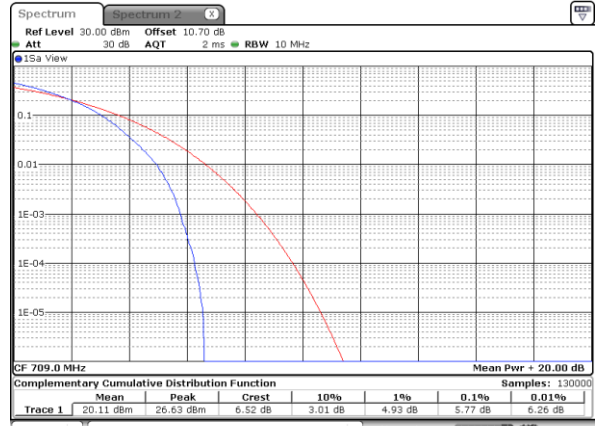
Date: 12 SEP 2017 19:51:38

Highest Channel / Full RB


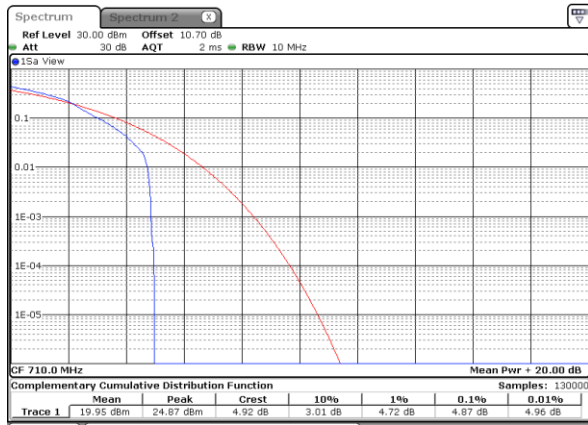
Date: 12 SEP 2017 19:51:47

LTE Band 17 / 10MHz / 16QAM
Lowest Channel / 1RB


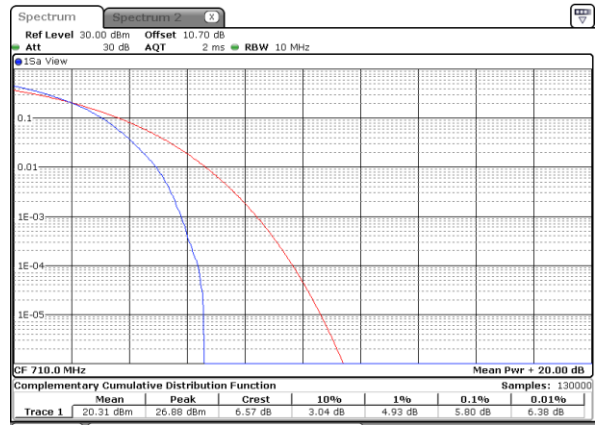
Date: 12 SEP 2017 19:42:14

Lowest Channel / Full RB


Date: 12 SEP 2017 19:43:07

Middle Channel / 1RB


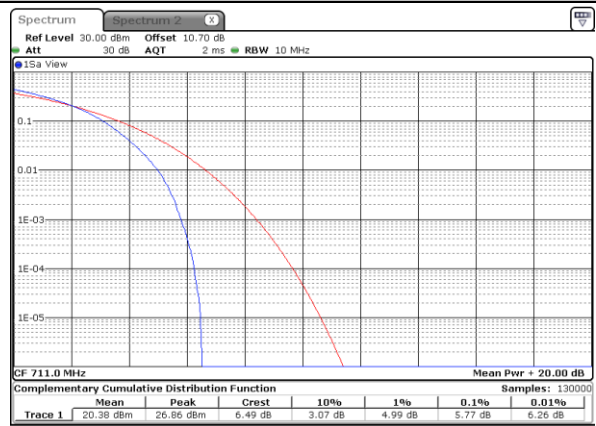
Date: 12 SEP 2017 19:50:06

Middle Channel / Full RB


Date: 12 SEP 2017 19:50:15

Highest Channel / 1RB


Date: 12 SEP 2017 19:50:23

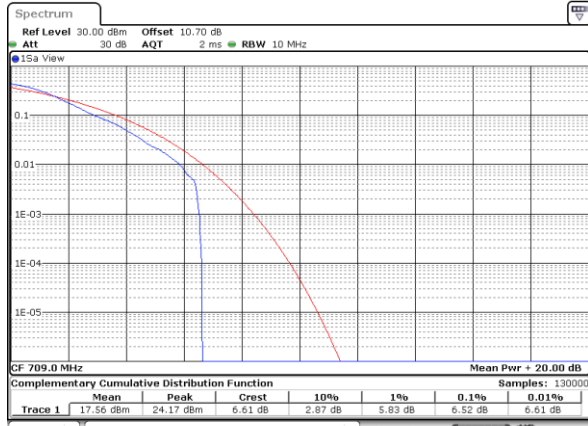
Highest Channel / Full RB


Date: 12 SEP 2017 19:50:34



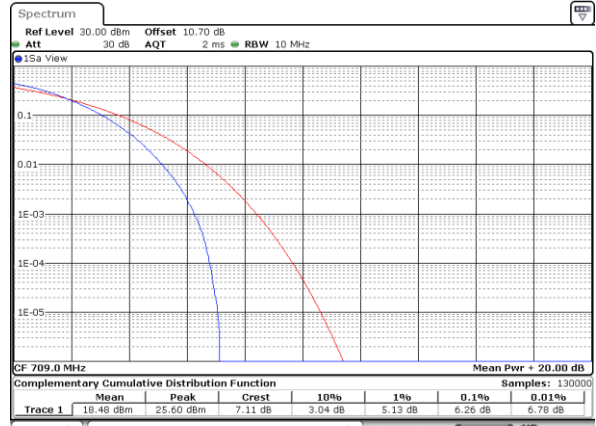
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



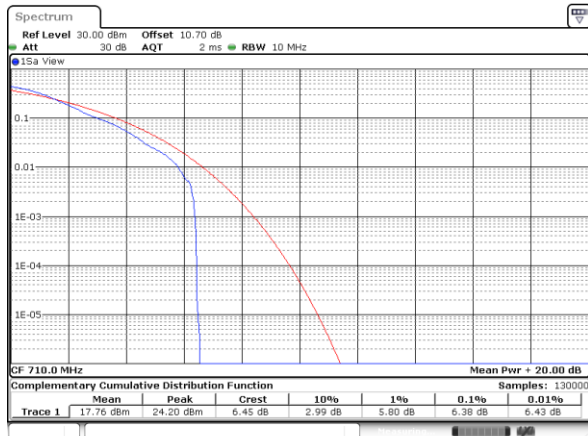
Date: 28 SEP 2017 23:55:54

Lowest Channel / Full RB



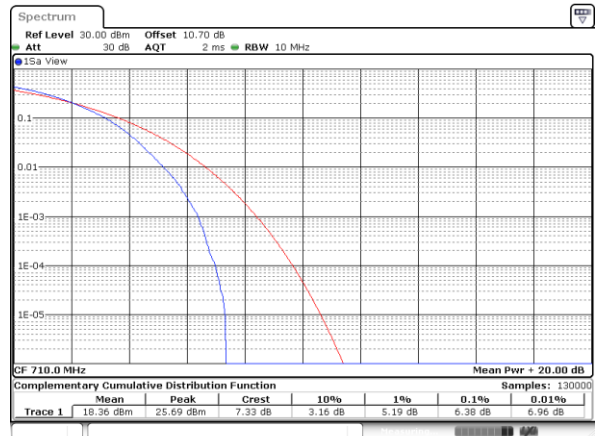
Date: 29 SEP 2017 00:01:54

Middle Channel / 1RB



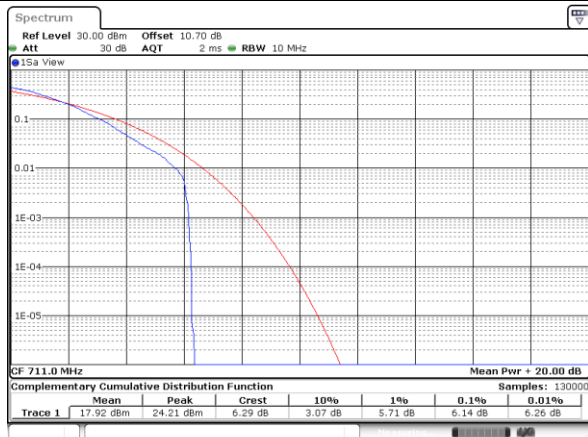
Date: 29 SEP 2017 00:02:03

Middle Channel / Full RB



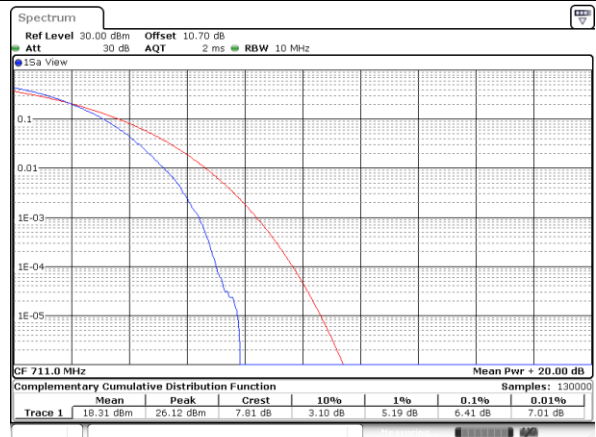
Date: 29 SEP 2017 00:02:15

Highest Channel / 1RB



Date: 29 SEP 2017 00:02:24

Highest Channel / Full RB



Date: 29 SEP 2017 00:02:37

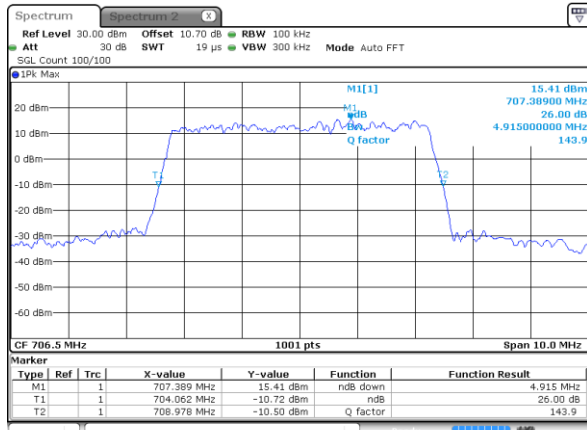
**26dB Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.92	4.87	9.69	9.81	-	-	-	-
Middle CH	-	-	-	-	4.88	4.84	9.79	9.71	-	-	-	-
Highest CH	-	-	-	-	4.97	4.93	9.77	9.83	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.95	-	9.69	-	-	-	-	-
Middle CH	-	-	-	-	4.85	-	9.99	-	-	-	-	-
Highest CH	-	-	-	-	4.85	-	9.87	-	-	-	-	-



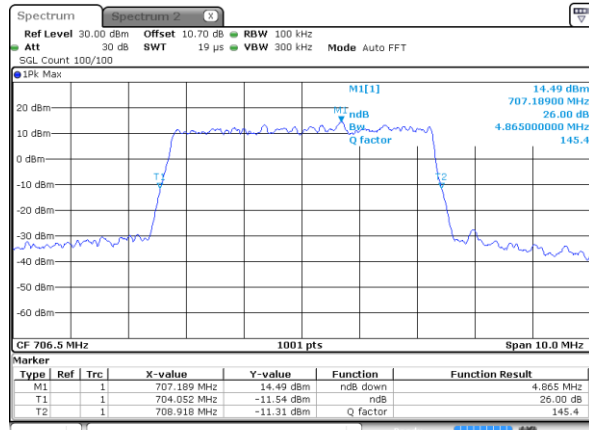
LTE Band 17

Lowest Channel / 5MHz / QPSK



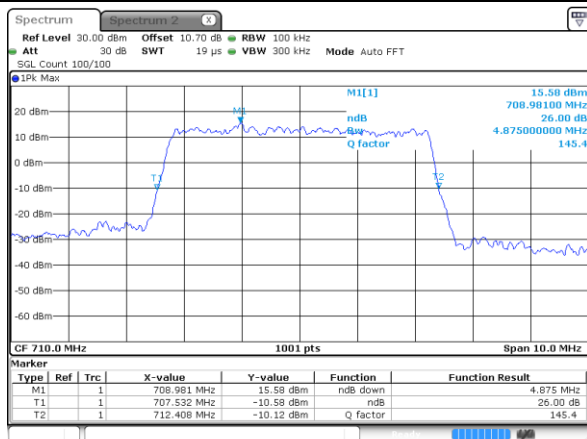
Date: 12 SEP 2017 18:48:07

Lowest Channel / 5MHz / 16QAM



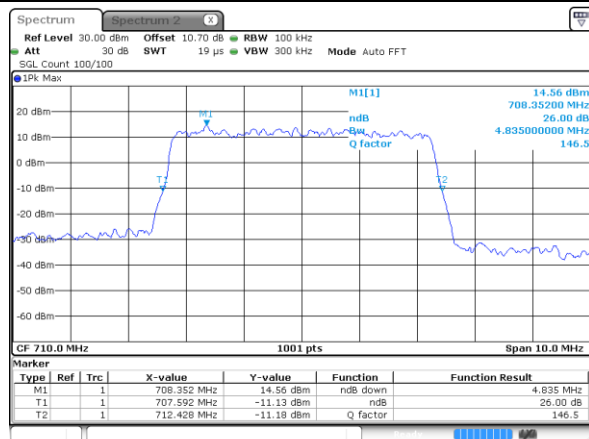
Date: 12 SEP 2017 18:48:17

Middle Channel / 5MHz / QPSK



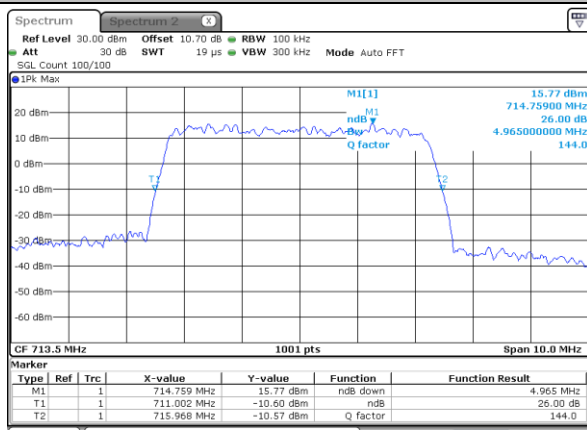
Date: 12 SEP 2017 18:55:09

Middle Channel / 5MHz / 16QAM



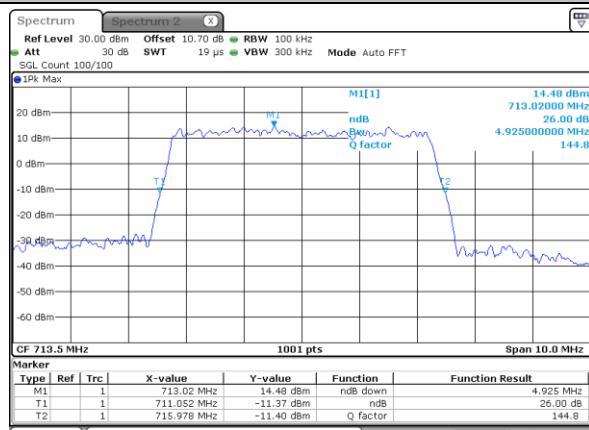
Date: 12 SEP 2017 18:55:19

Highest Channel / 5MHz / QPSK



Date: 12 SEP 2017 18:57:37

Highest Channel / 5MHz / 16QAM

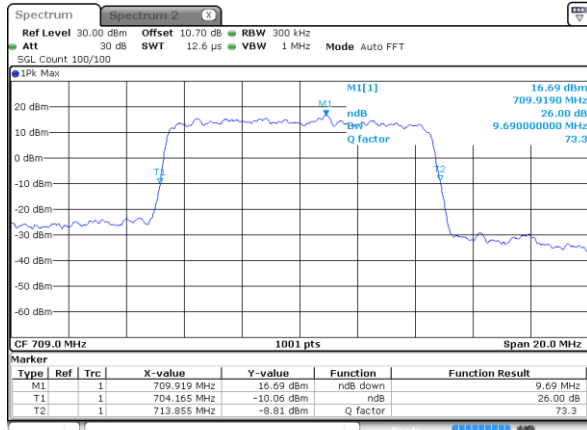


Date: 12 SEP 2017 18:57:46



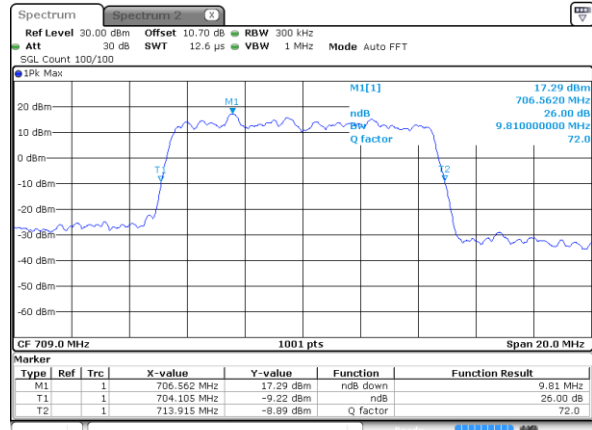
LTE Band 17

Lowest Channel / 10MHz / QPSK



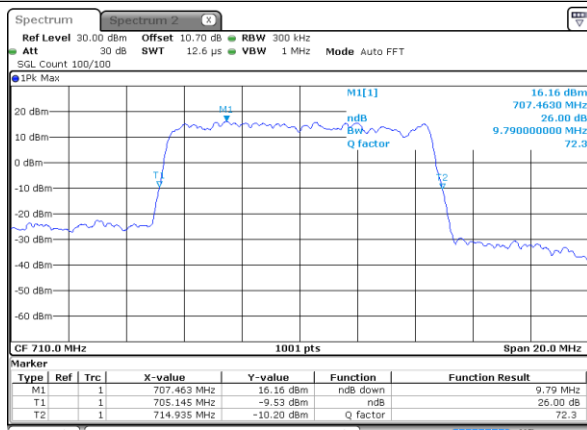
Date: 12 SEP 2017 19:04:39

Lowest Channel / 10MHz / 16QAM



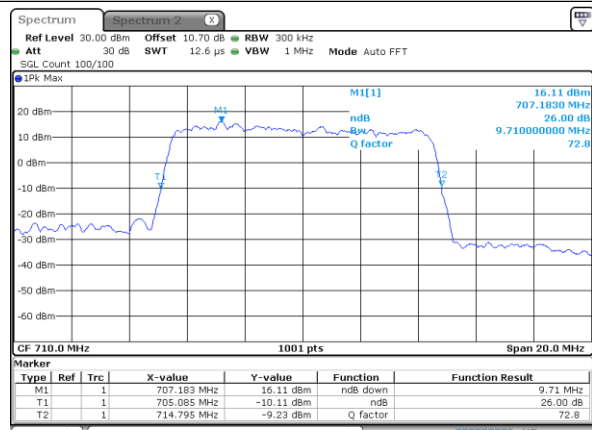
Date: 12 SEP 2017 19:04:49

Middle Channel / 10MHz / QPSK



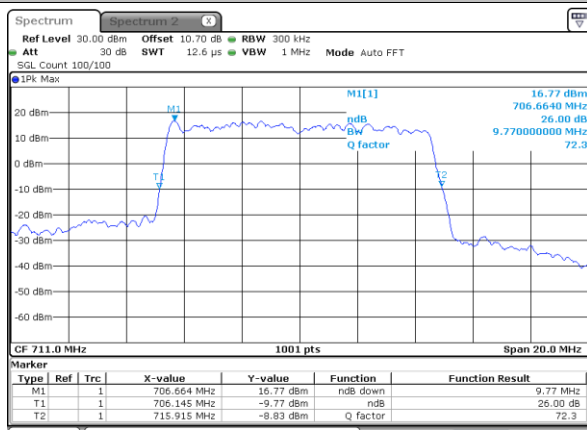
Date: 12 SEP 2017 19:11:41

Middle Channel / 10MHz / 16QAM



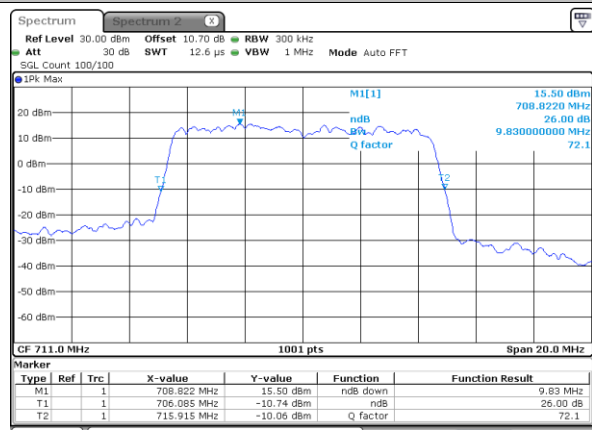
Date: 12 SEP 2017 19:11:51

Highest Channel / 10MHz / QPSK



Date: 12 SEP 2017 19:14:09

Highest Channel / 10MHz / 16QAM

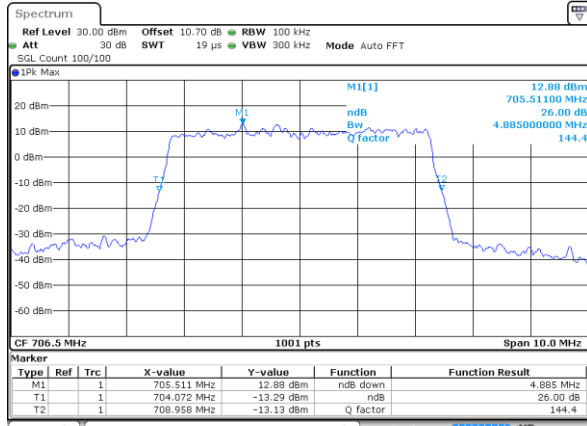


Date: 12 SEP 2017 19:14:18



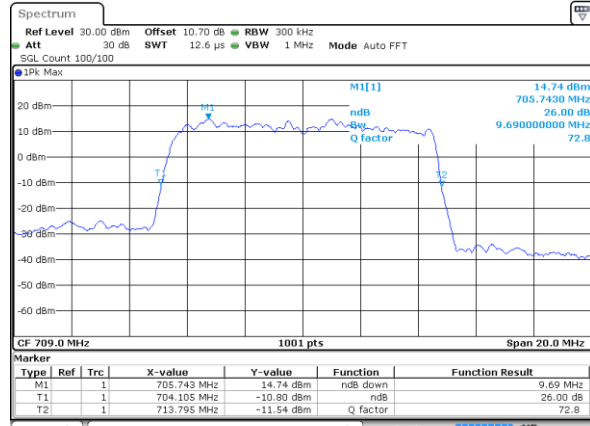
LTE Band 17

Lowest Channel / 5MHz / 64QAM



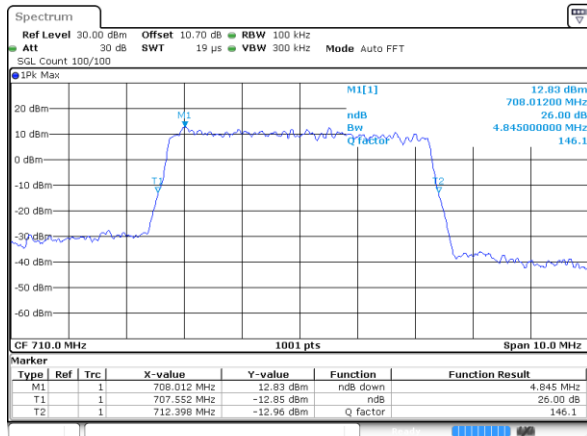
Date: 28 SEP 2017 23:37:44

Lowest Channel / 10MHz / 64QAM



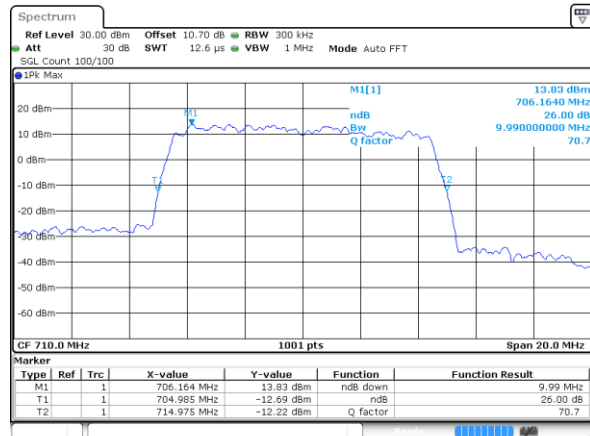
Date: 28 SEP 2017 23:46:00

Middle Channel / 5MHz / 64QAM



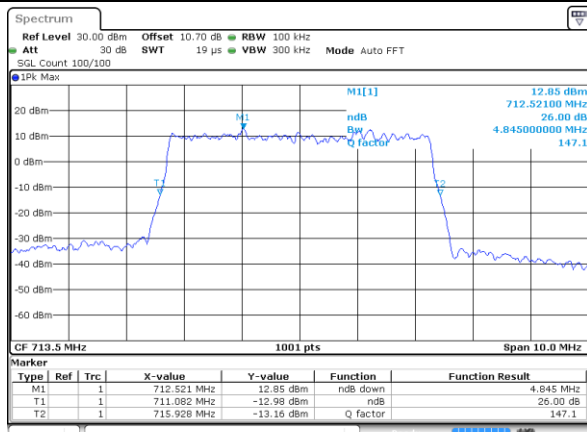
Date: 28 SEP 2017 23:41:15

Middle Channel / 10MHz / 64QAM



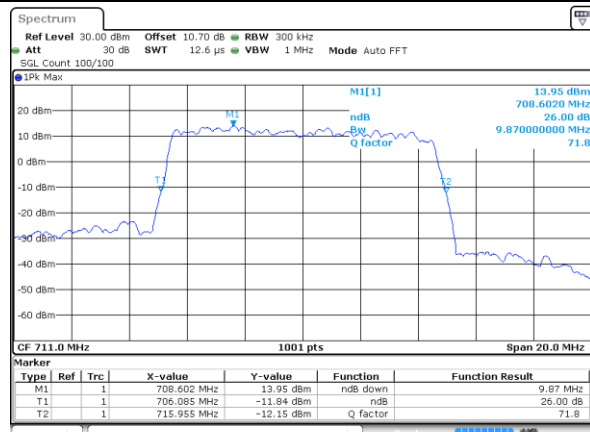
Date: 28 SEP 2017 23:49:31

Highest Channel / 5MHz / 64QAM



Date: 28 SEP 2017 23:42:29

Highest Channel / 10MHz / 64QAM



Date: 28 SEP 2017 23:50:45

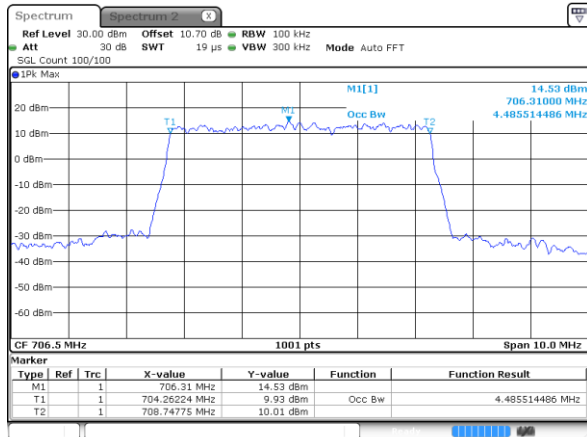
**Occupied Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.49	4.48	8.99	8.95	-	-	-	-
Middle CH	-	-	-	-	4.45	4.49	9.03	9.01	-	-	-	-
Highest CH	-	-	-	-	4.5	4.48	9.01	8.97	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.53	-	8.97	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	8.97	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	9.01	-	-	-	-	-



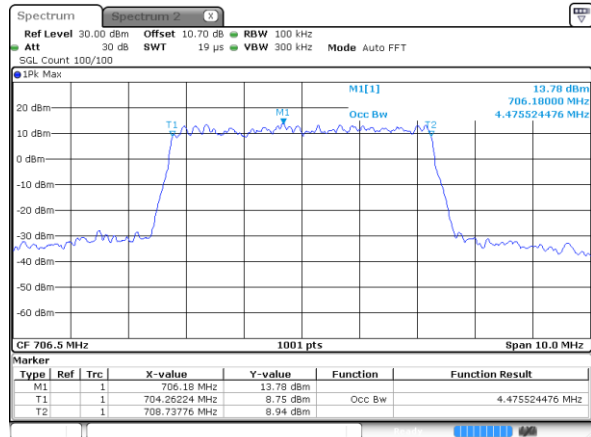
LTE Band 17

Lowest Channel / 5MHz / QPSK



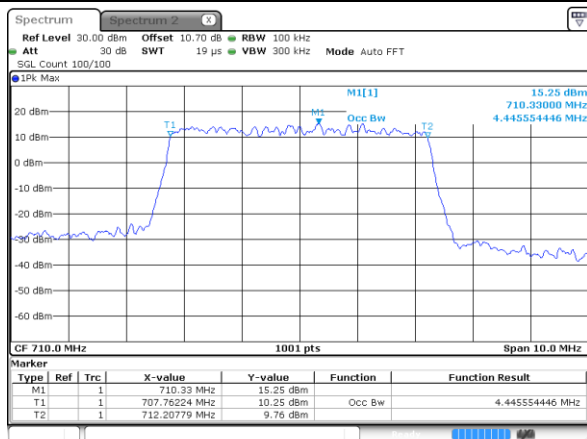
Date: 12 SEP 2017 18:47:47

Lowest Channel / 5MHz / 16QAM



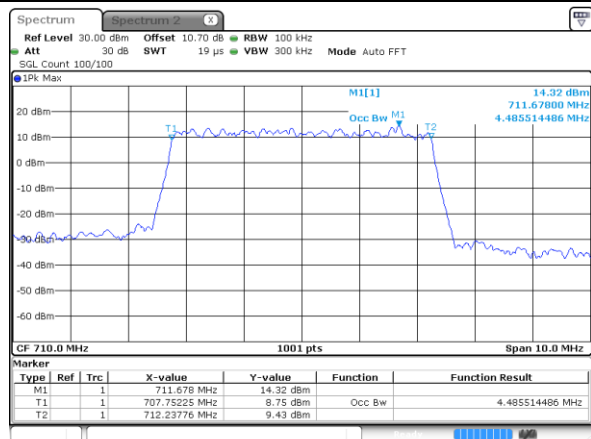
Date: 12 SEP 2017 18:47:57

Middle Channel / 5MHz / QPSK



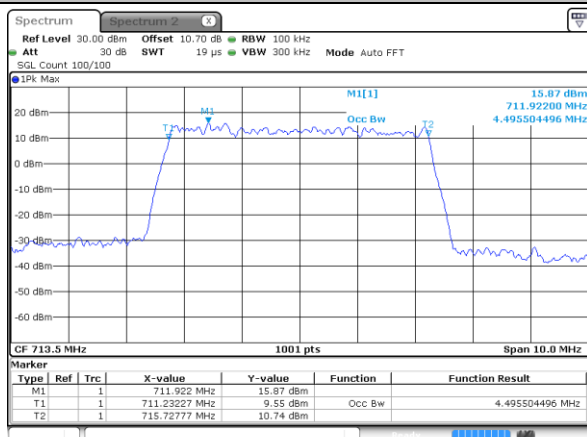
Date: 12 SEP 2017 18:54:49

Middle Channel / 5MHz / 16QAM



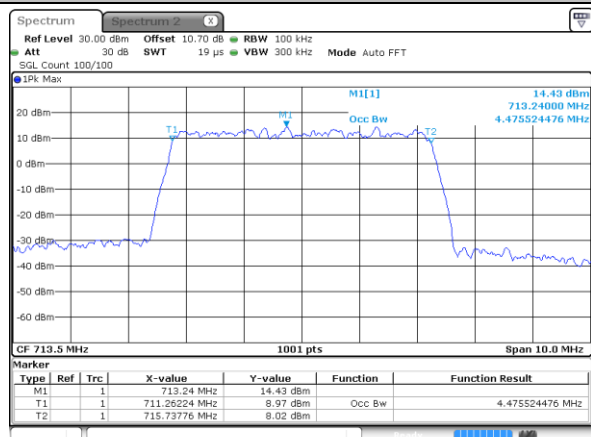
Date: 12 SEP 2017 18:54:59

Highest Channel / 5MHz / QPSK



Date: 12 SEP 2017 18:57:17

Highest Channel / 5MHz / 16QAM

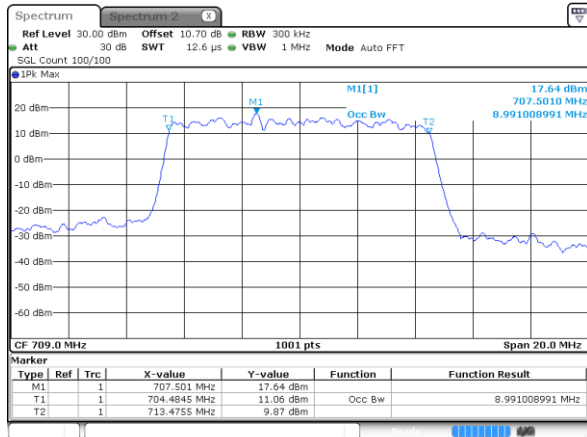


Date: 12 SEP 2017 18:57:27



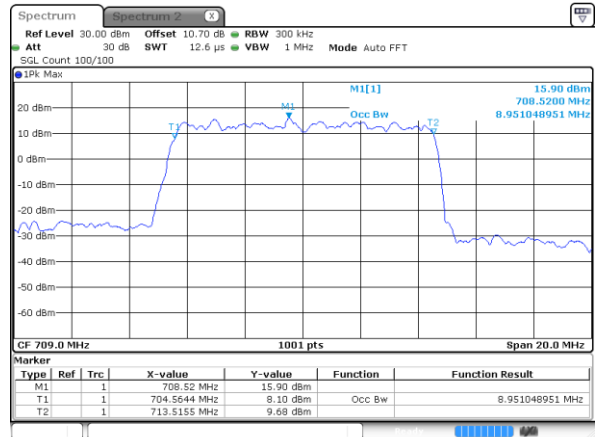
LTE Band 17

Lowest Channel / 10MHz / QPSK



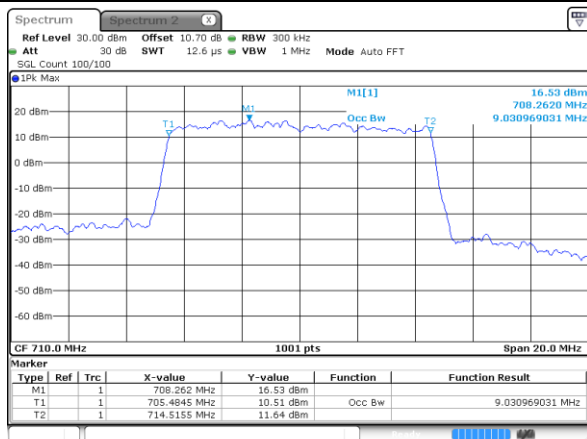
Date: 12 SEP 2017 19:04:19

Lowest Channel / 10MHz / 16QAM



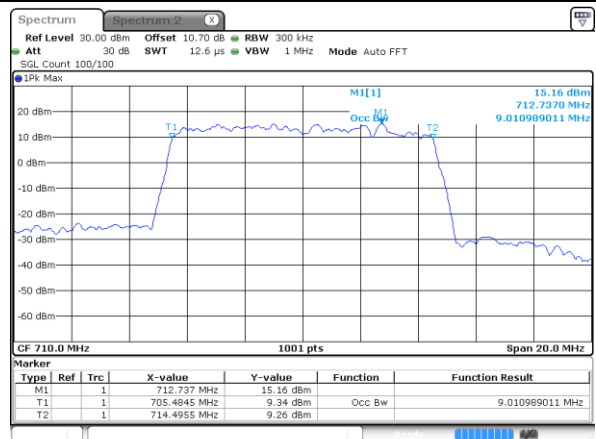
Date: 12 SEP 2017 19:04:29

Middle Channel / 10MHz / QPSK



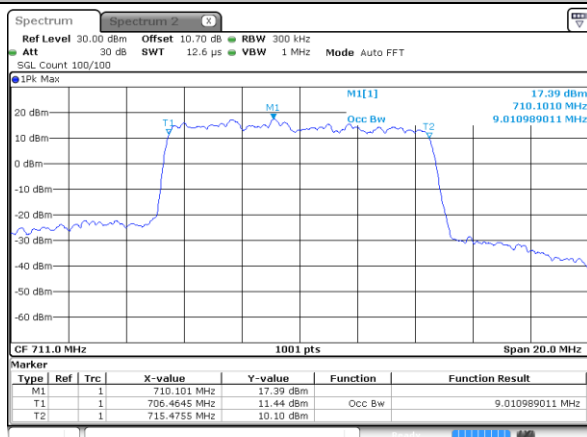
Date: 12 SEP 2017 19:11:21

Middle Channel / 10MHz / 16QAM



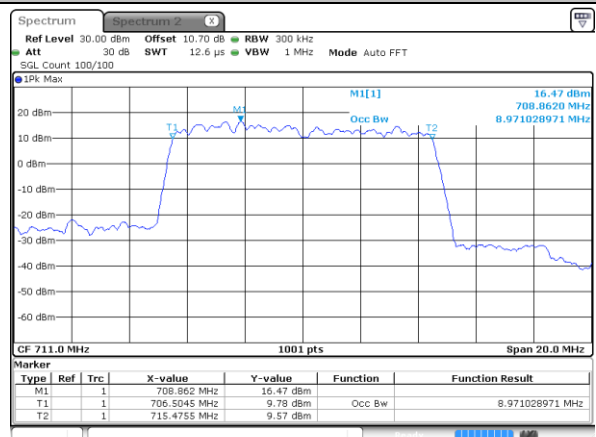
Date: 12 SEP 2017 19:11:31

Highest Channel / 10MHz / QPSK



Date: 12 SEP 2017 19:13:49

Highest Channel / 10MHz / 16QAM

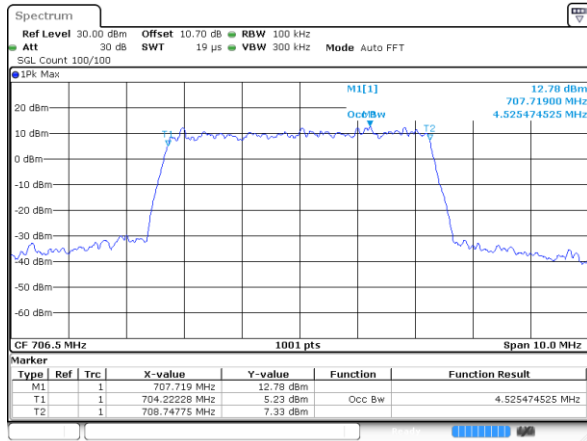


Date: 12 SEP 2017 19:13:59



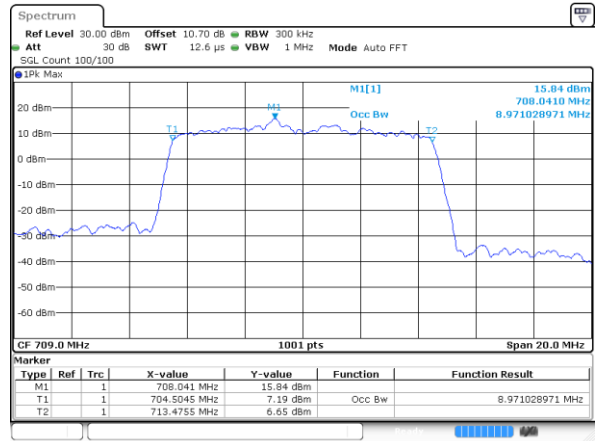
LTE Band 17

Lowest Channel / 5MHz / 64QAM



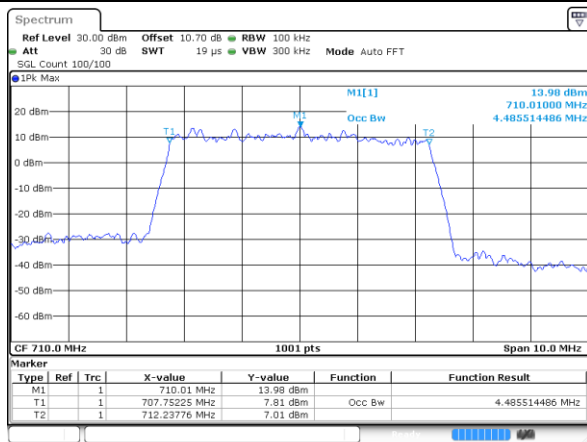
Date: 28 SEP 2017 23:37:34

Lowest Channel / 10MHz / 64QAM



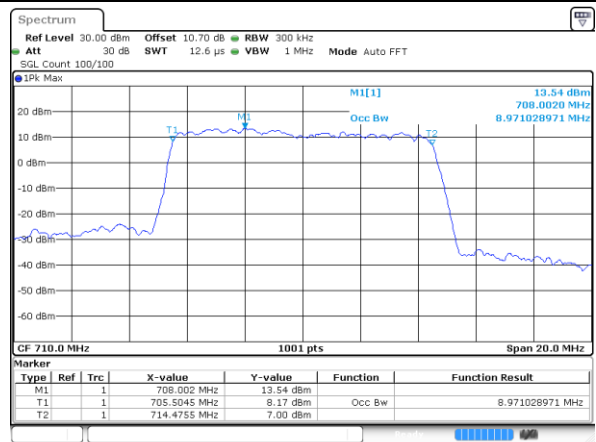
Date: 28 SEP 2017 23:45:50

Middle Channel / 5MHz / 64QAM



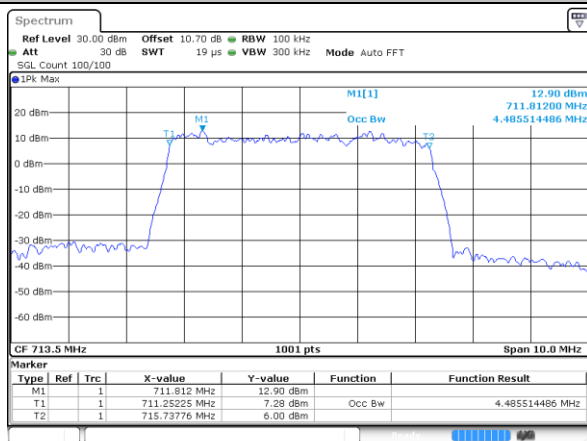
Date: 28 SEP 2017 23:41:05

Middle Channel / 10MHz / 64QAM



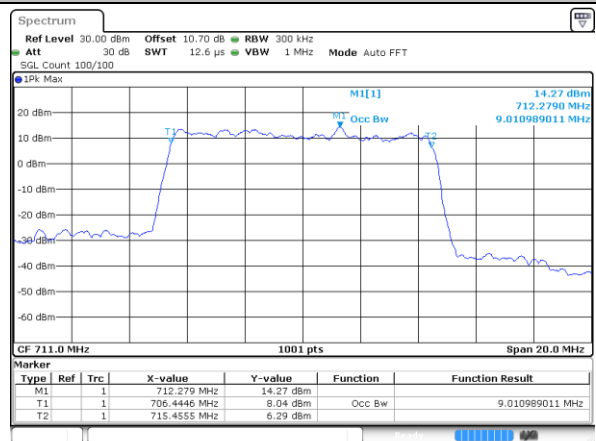
Date: 28 SEP 2017 23:49:21

Highest Channel / 5MHz / 64QAM



Date: 28 SEP 2017 23:42:19

Highest Channel / 10MHz / 64QAM



Date: 28 SEP 2017 23:50:35



Conducted Band Edge