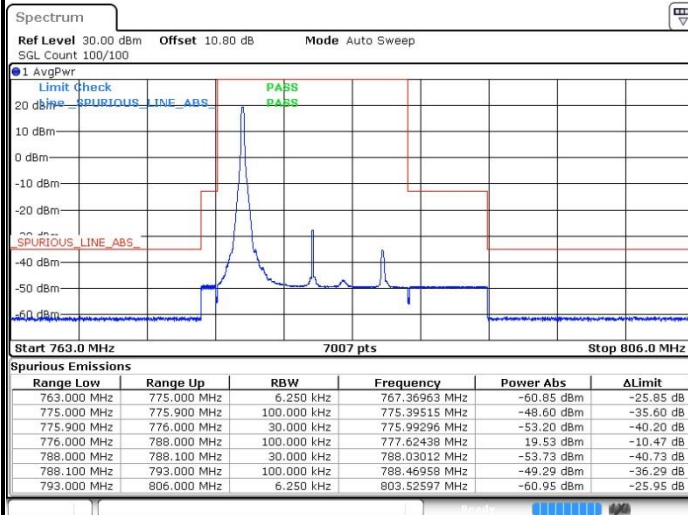


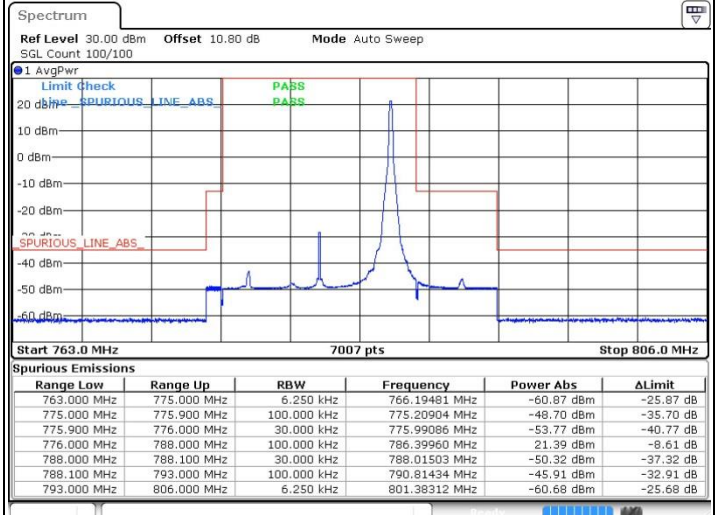


LTE Band 13 / 10MHz / QPSK

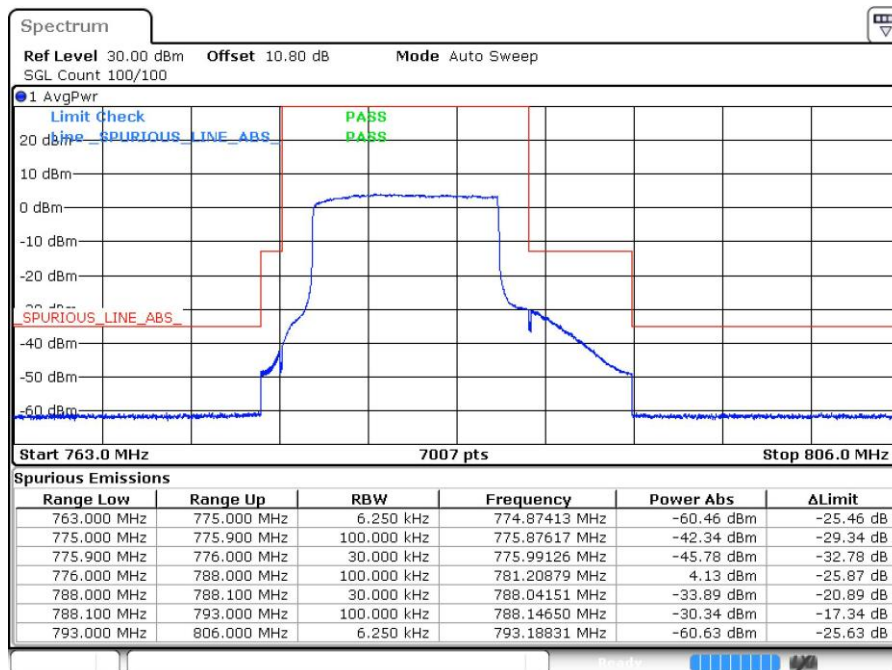
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



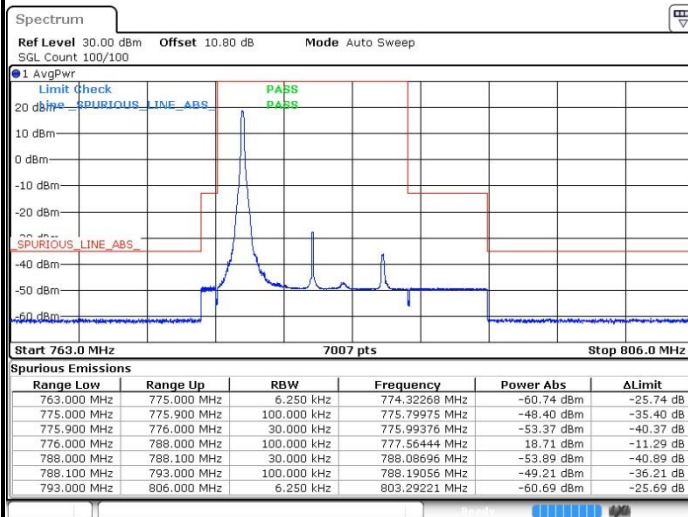
Band Edge / Full RB



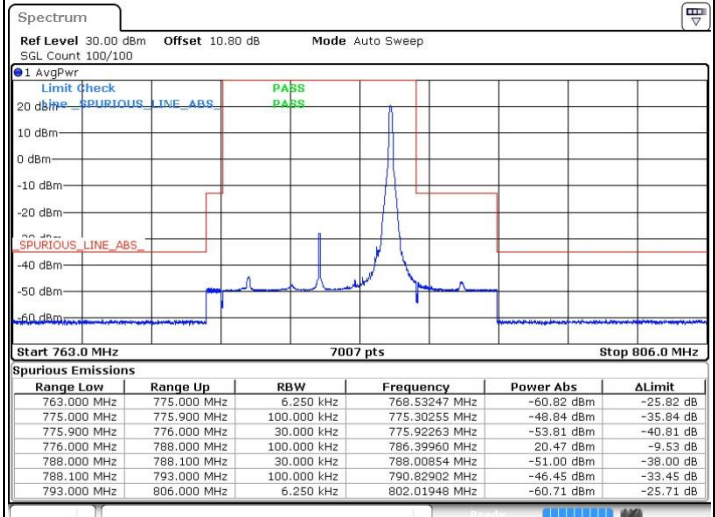


LTE Band 13 / 10MHz / 16QAM

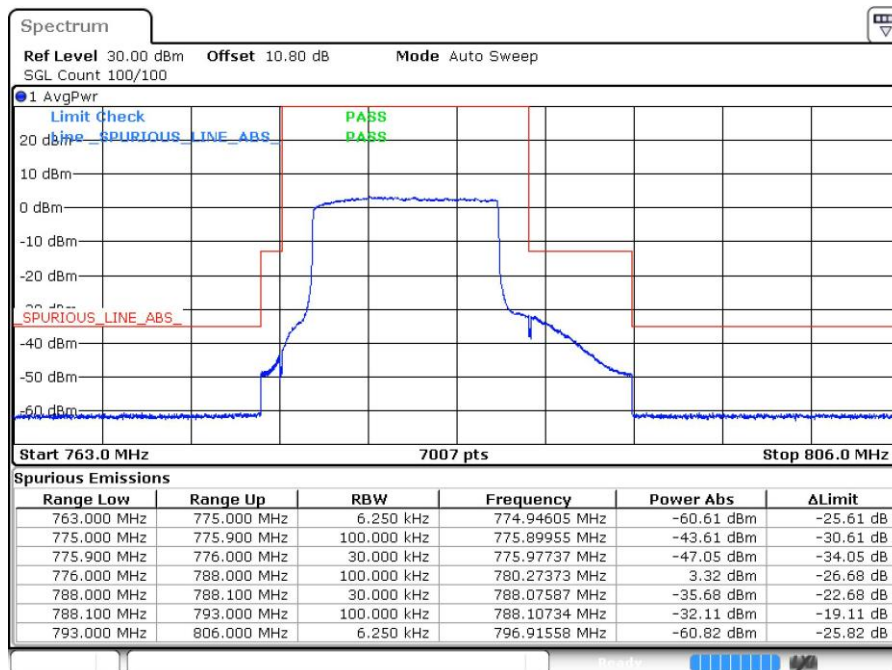
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



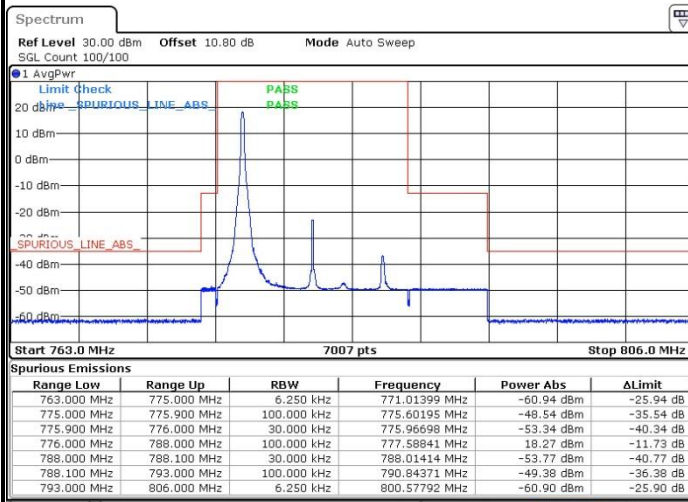
Band Edge / Full RB





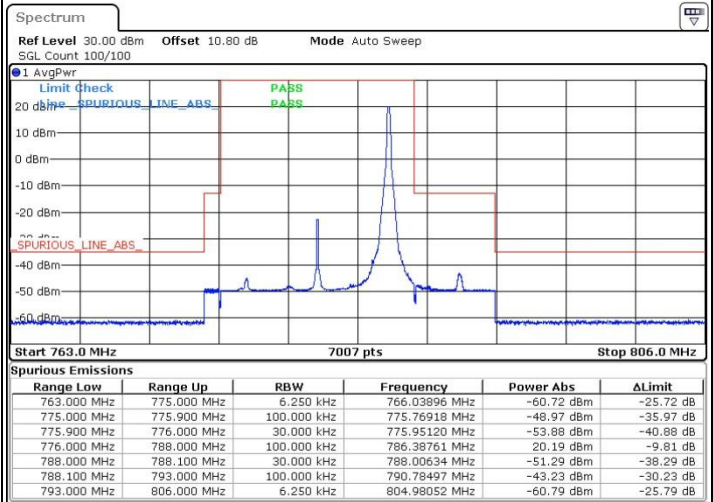
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



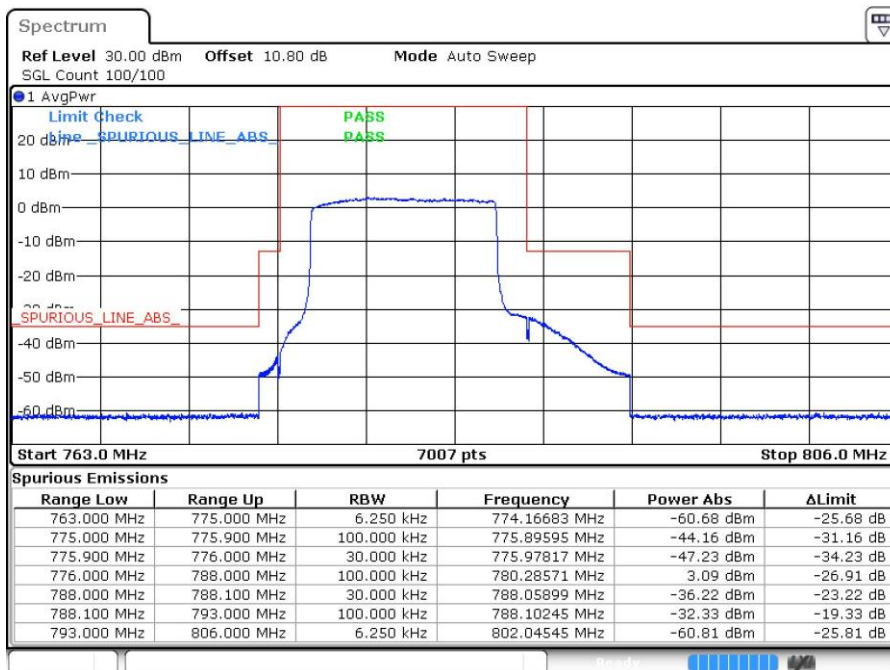
Date: 29 MAY.2017 12:09:20

Highest Band Edge / 1 RB



Date: 29 MAY.2017 12:11:00

Band Edge / Full RB



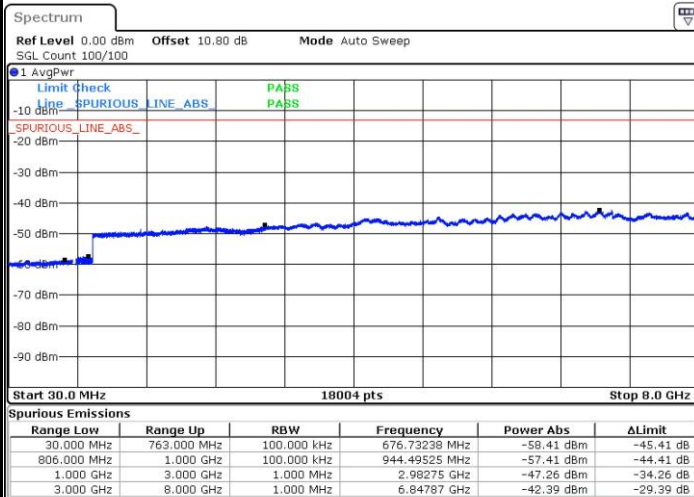
Date: 29.MAY.2017 12:07:41



Conducted Spurious Emission

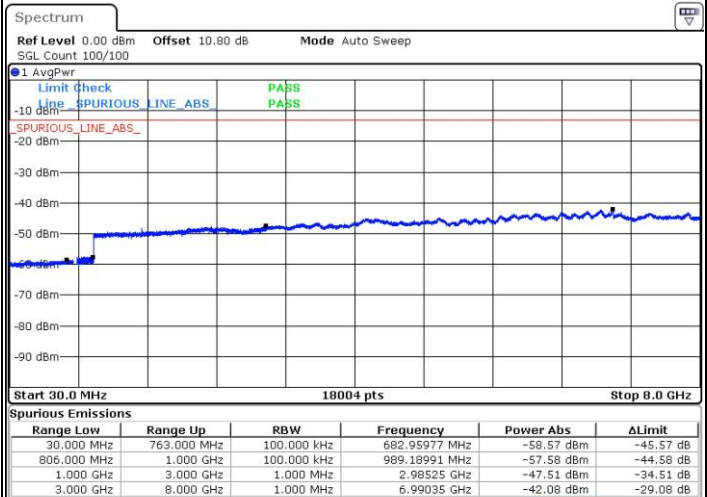
LTE Band 13 / 5MHz

Lowest Channel / QPSK



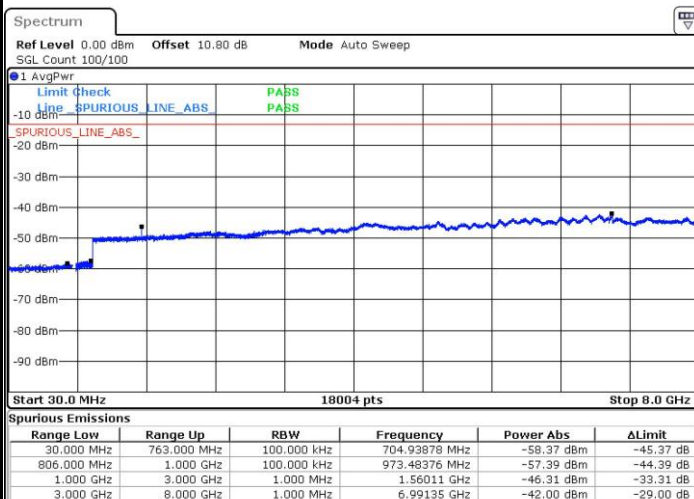
Date: 17.MAY.2017 00:17:57

Lowest Channel / 16QAM



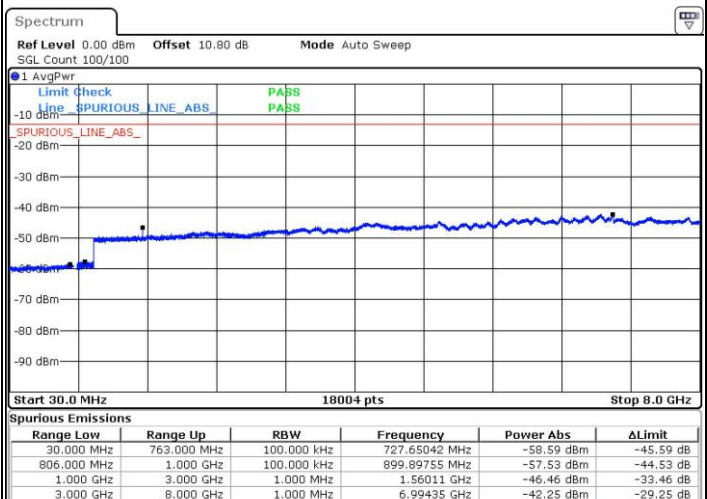
Date: 17.MAY.2017 00:18:51

Middle Channel / QPSK



Date: 17.MAY.2017 00:20:39

Middle Channel / 16QAM

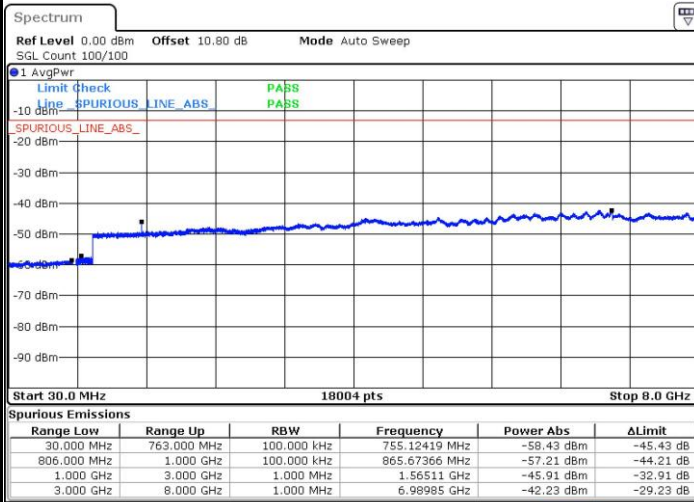


Date: 17.MAY.2017 00:19:45



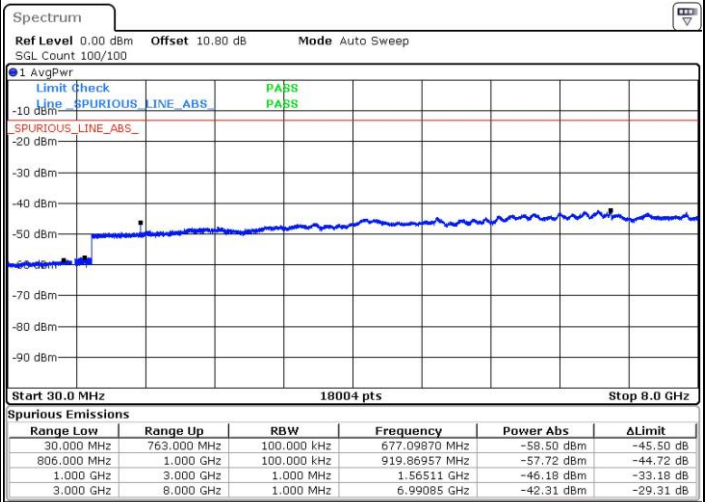
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 17.MAY.2017 00:22:56

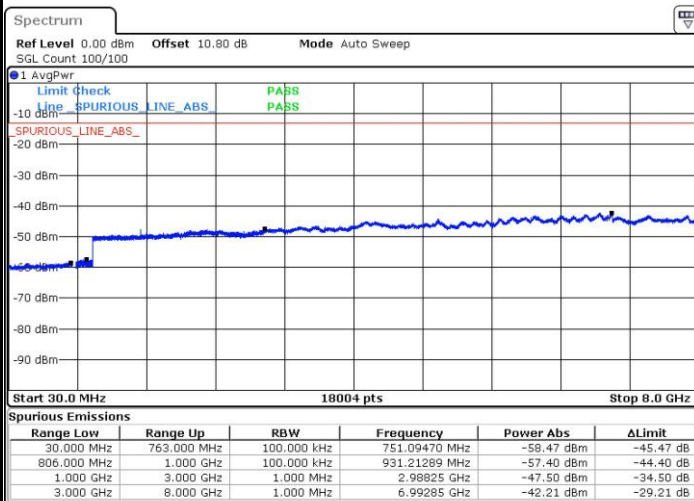
Highest Channel / 16QAM



Date: 17.MAY.2017 00:23:50

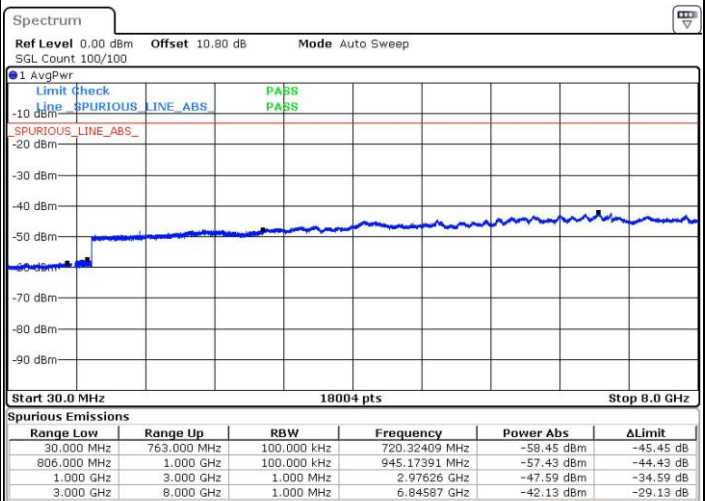
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 17.MAY.2017 00:26:19

Middle Channel / 16QAM

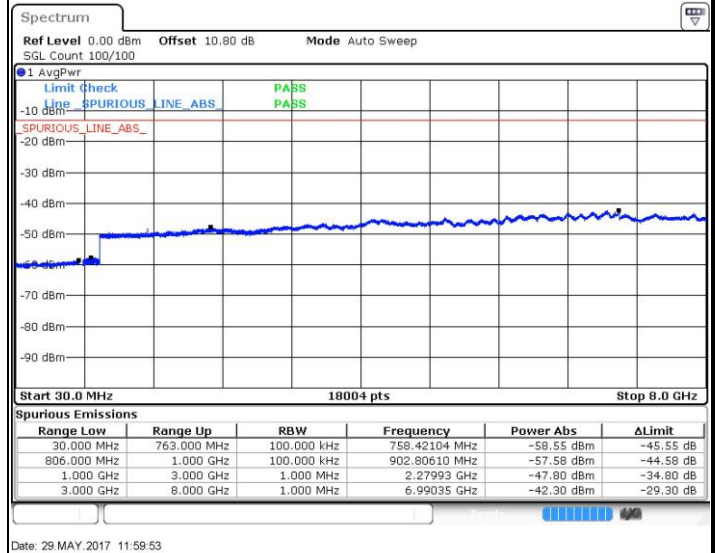


Date: 17.MAY.2017 00:25:25

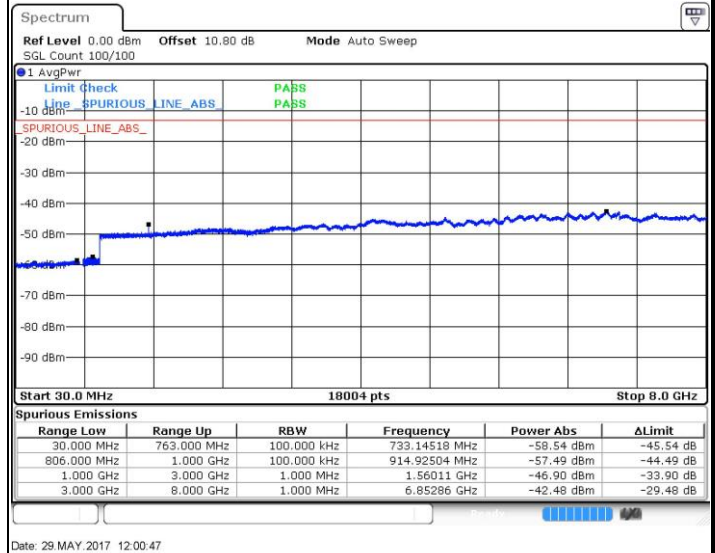


LTE Band 13 / 5MHz

Lowest Channel / 64QAM



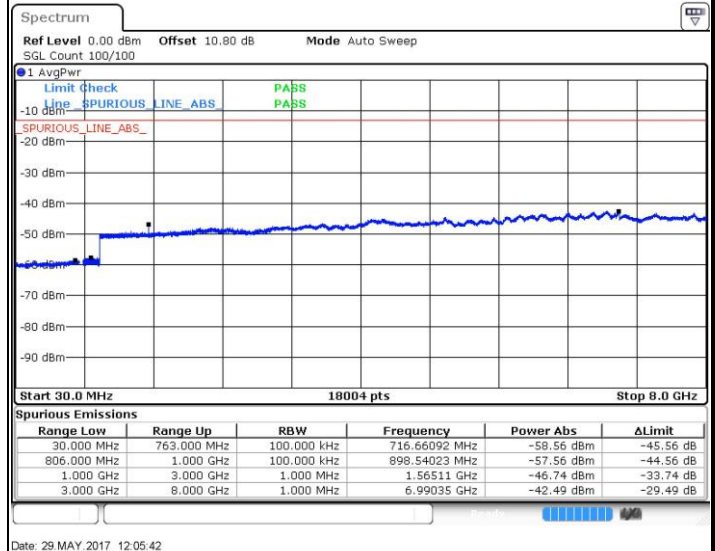
Middle Channel / 64QAM





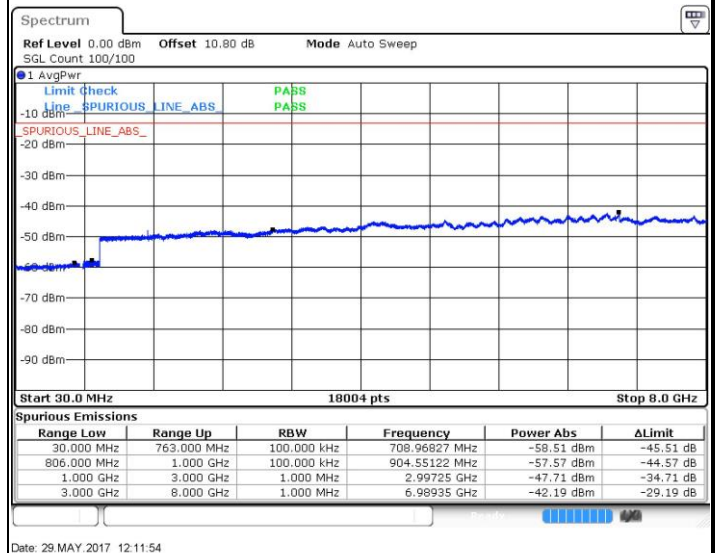
LTE Band 13 / 5MHz

Highest Channel / 64QAM



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0003	
20	Battery End Point	0.0010	

Note:

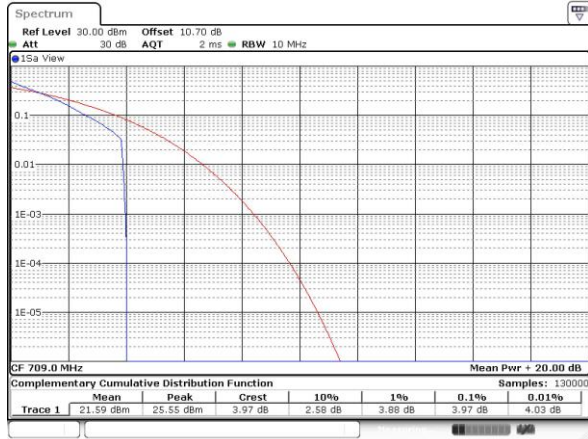
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



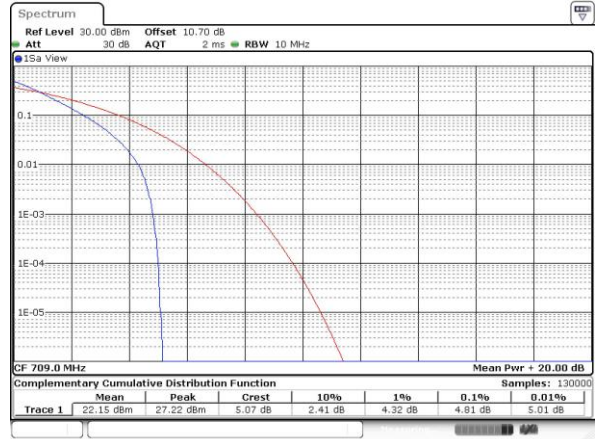
LTE Band 17

Peak-to-Average Ratio

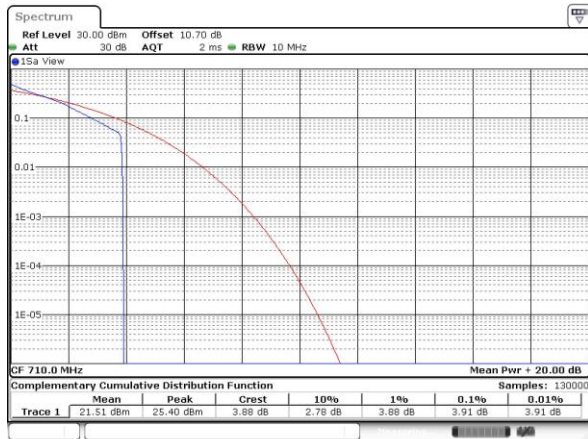
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.97	4.81	5.13	5.8	PASS
Middle CH	3.91	4.7	4.81	5.71	
Highest CH	3.88	4.64	4.58	5.71	
Mode	LTE Band 17 / 10MHz				
Mod.	-		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	5.04	5.65	PASS
Middle CH	-	-	4.9	5.74	
Highest CH	-	-	4.55	5.71	

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


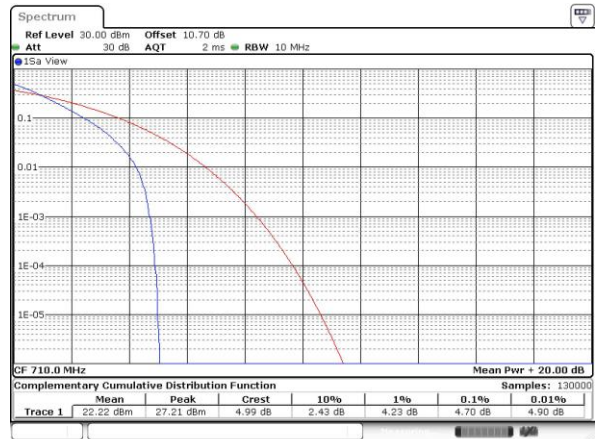
Date: 16 MAY 2017 01:05:46

Lowest Channel / Full RB


Date: 16 MAY 2017 01:05:55

Middle Channel/ 1RB


Date: 16 MAY 2017 01:06:05

Middle Channel / Full RB


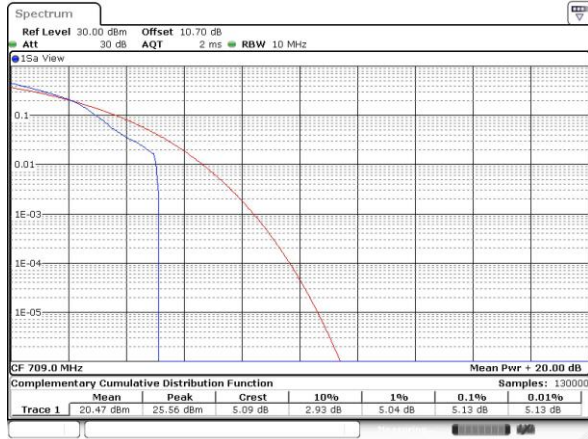
Date: 16 MAY 2017 01:06:15

Highest Channel/ 1RB

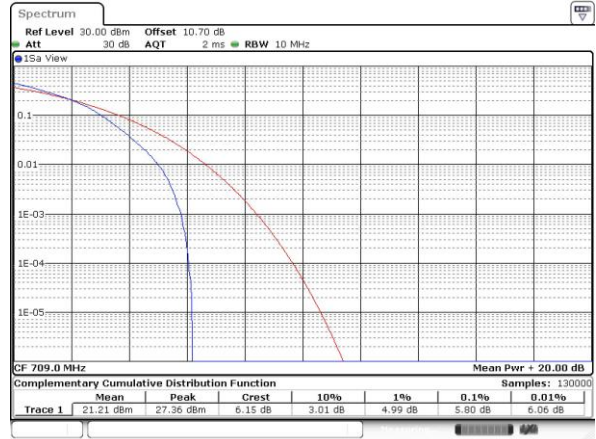

Date: 16 MAY 2017 01:06:24

Highest Channel / Full RB

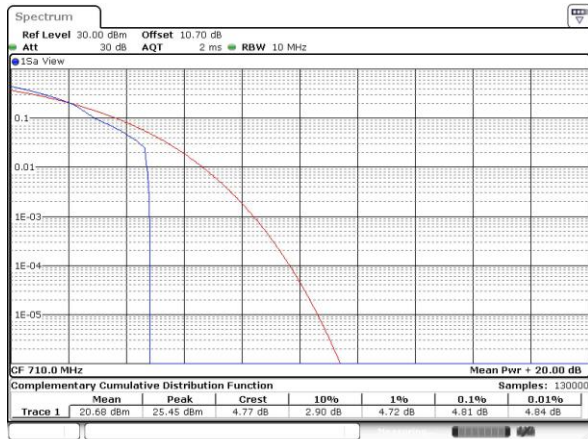

Date: 16 MAY 2017 01:06:34

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


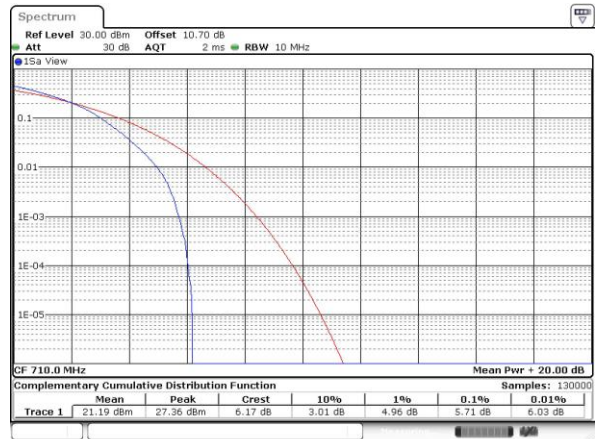
Date: 16 MAY 2017 01:04:47

Lowest Channel / Full RB


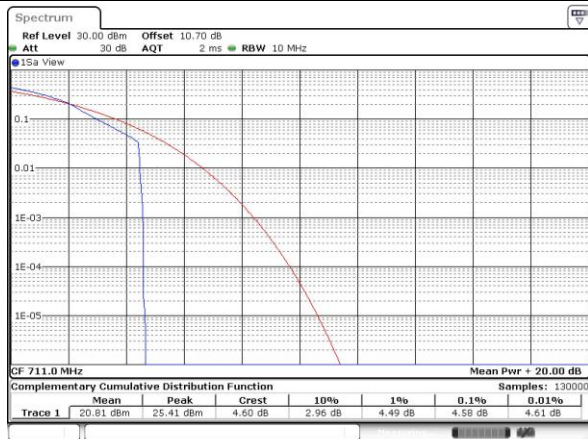
Date: 16 MAY 2017 01:04:56

Middle Channel/ 1RB


Date: 16 MAY 2017 01:05:06

Middle Channel / Full RB


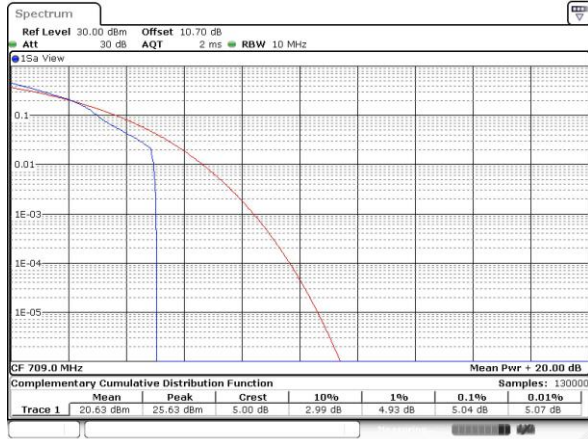
Date: 16 MAY 2017 01:05:16

Highest Channel/ 1RB


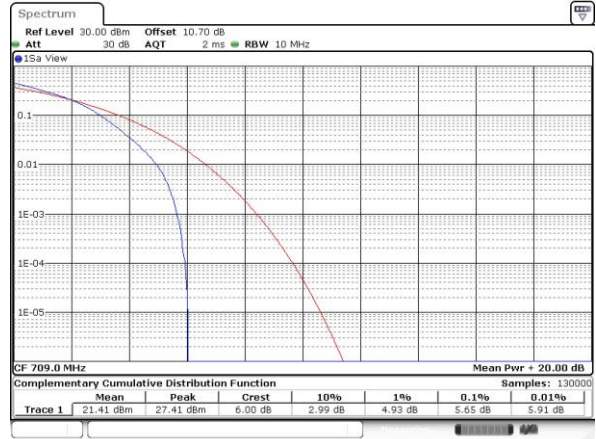
Date: 16 MAY 2017 01:05:25

Highest Channel / Full RB

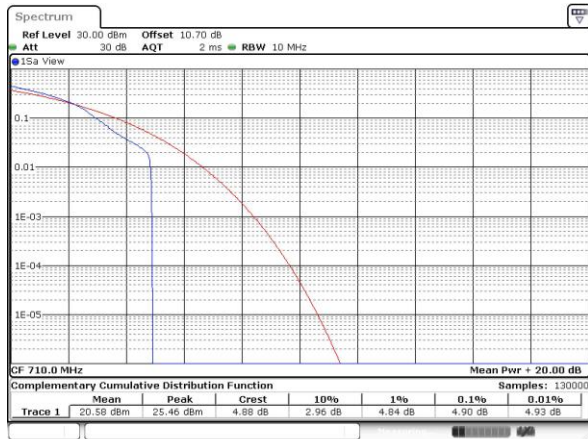

Date: 16 MAY 2017 01:05:35

LTE Band 17 / 10MHz / 64QAM
Lowest Channel / 1RB


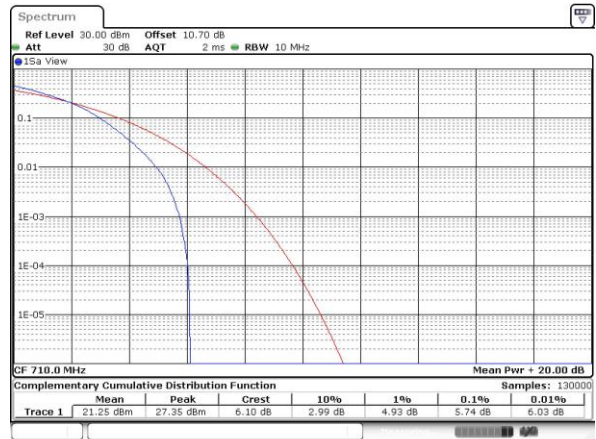
Date: 29 MAY 2017 02:38:16

Lowest Channel / Full RB


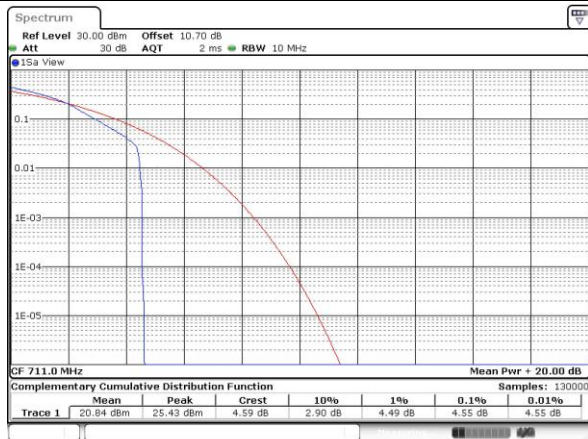
Date: 29 MAY 2017 02:38:25

Middle Channel/ 1RB


Date: 29 MAY 2017 02:38:35

Middle Channel / Full RB


Date: 29 MAY 2017 02:38:44

Highest Channel/ 1RB


Date: 29 MAY 2017 02:38:54

Highest Channel / Full RB


Date: 29 MAY 2017 02:39:03

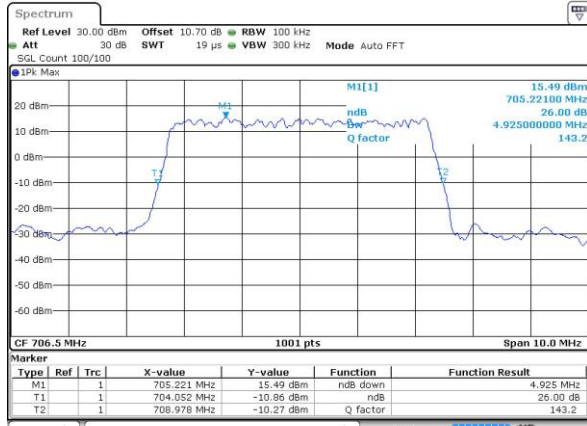
**26dB Bandwidth**

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	-	-	-	-	4.93	4.83	9.99	10.03	-	-	-	-
Middle CH	-	-	-	-	4.84	4.90	9.79	9.81	-	-	-	-
Highest CH	-	-	-	-	4.98	4.88	9.77	9.63	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	-	-	-	-	4.89	-	9.71	-	-	-	-
Middle CH	-	-	-	-	-	4.91	-	9.67	-	-	-	-
Highest CH	-	-	-	-	-	4.93	-	9.83	-	-	-	-

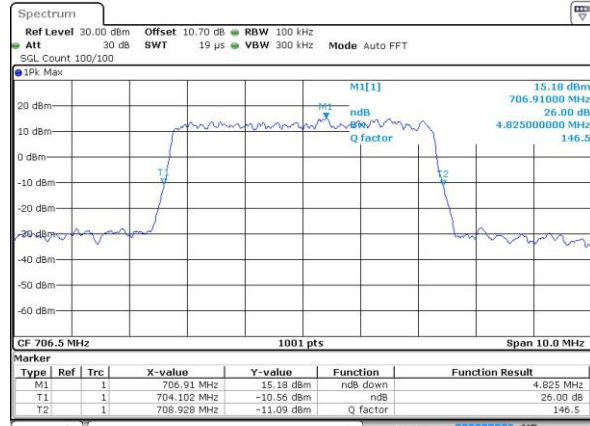


LTE Band 17

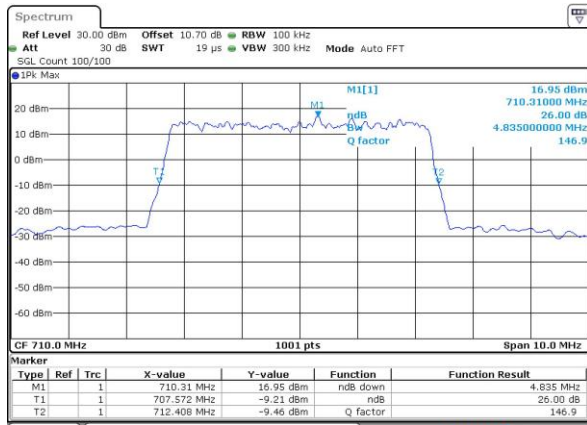
Lowest Channel / 5MHz / QPSK



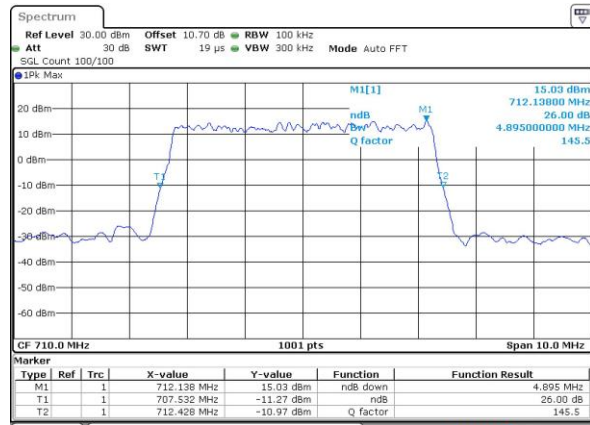
Lowest Channel / 5MHz / 16QAM



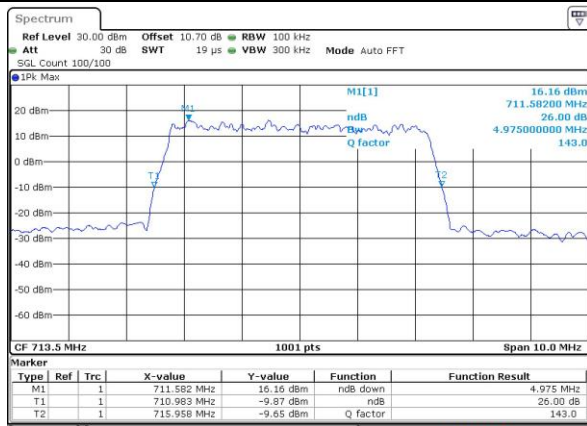
Middle Channel / 5MHz / QPSK



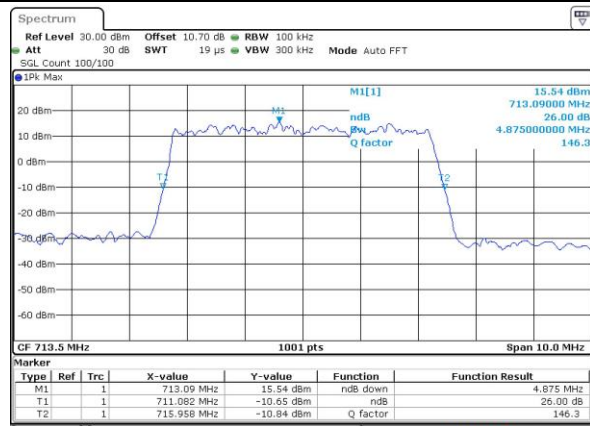
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



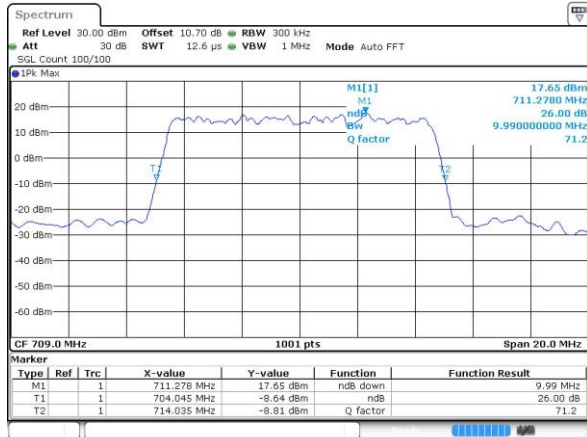
Highest Channel / 5MHz / 16QAM





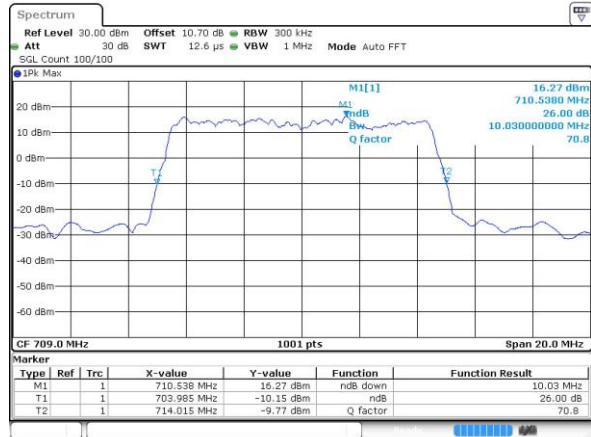
LTE Band 17

Lowest Channel / 10MHz / QPSK



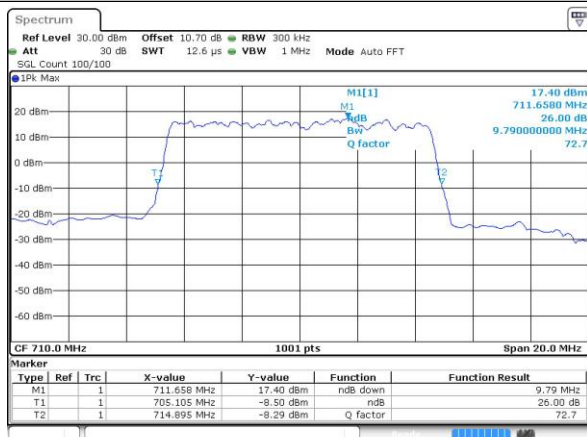
Date: 16 MAY 2017 00:48:14

Lowest Channel / 10MHz / 16QAM



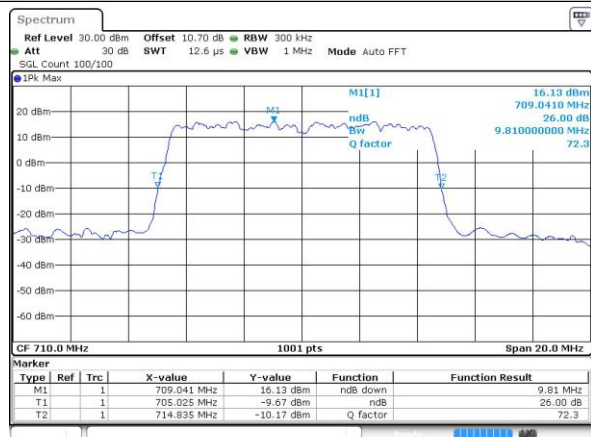
Date: 16 MAY 2017 00:48:24

Middle Channel / 10MHz / QPSK



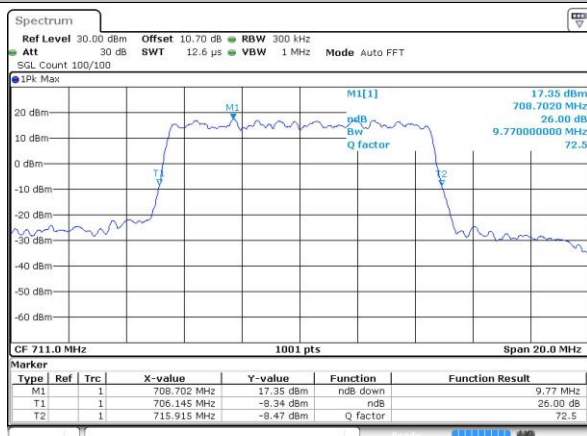
Date: 16 MAY 2017 00:55:20

Middle Channel / 10MHz / 16QAM



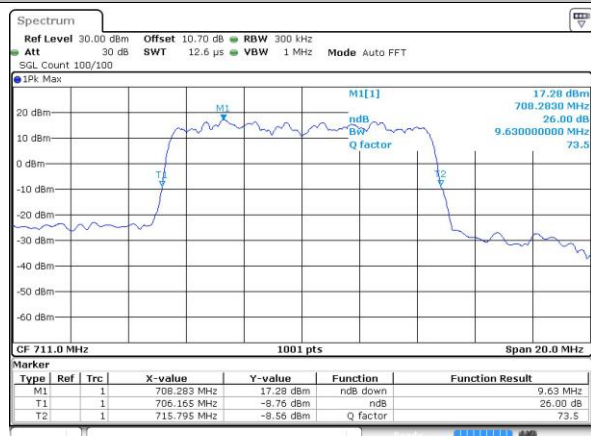
Date: 16 MAY 2017 00:55:30

Highest Channel / 10MHz / QPSK



Date: 16 MAY 2017 00:57:49

Highest Channel / 10MHz / 16QAM

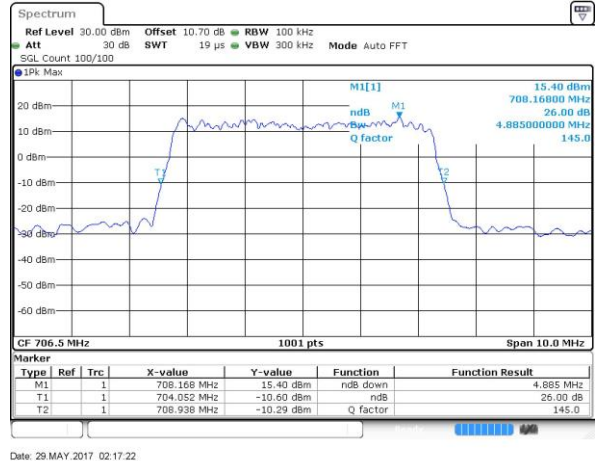


Date: 16 MAY 2017 00:58:00

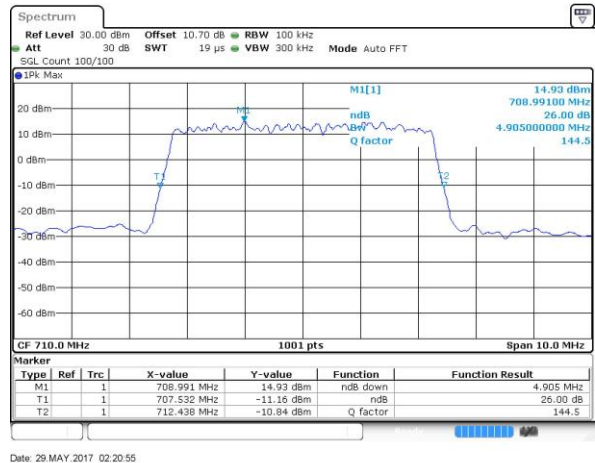


LTE Band 17

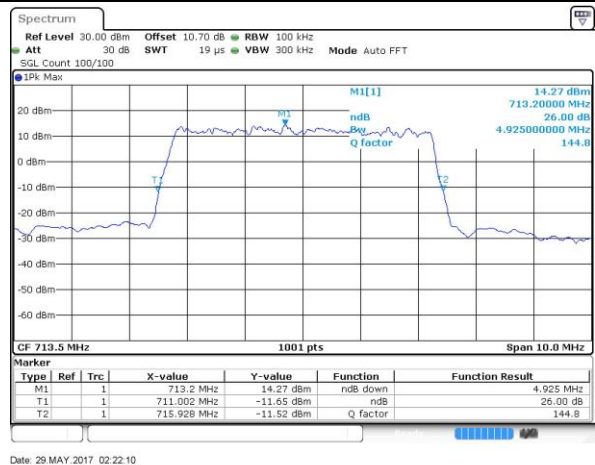
Lowest Channel / 5MHz / 64QAM



Middle Channel / 5MHz / 64QAM



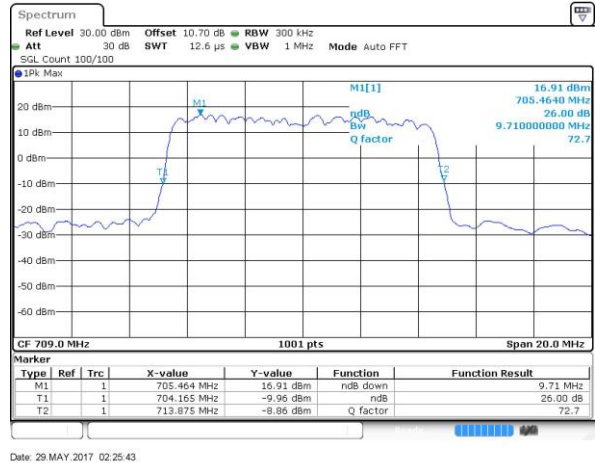
Highest Channel / 5MHz / 64QAM



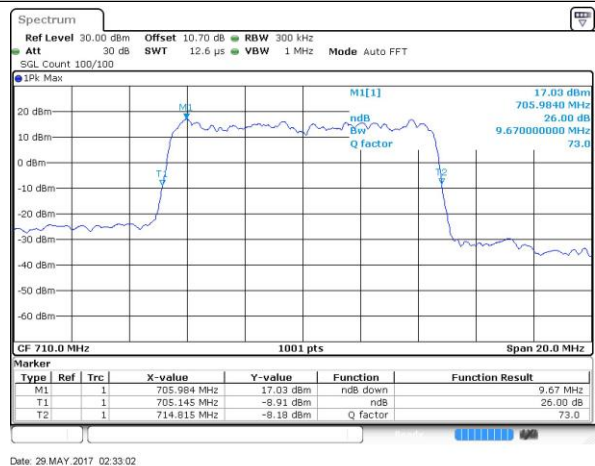


LTE Band 17

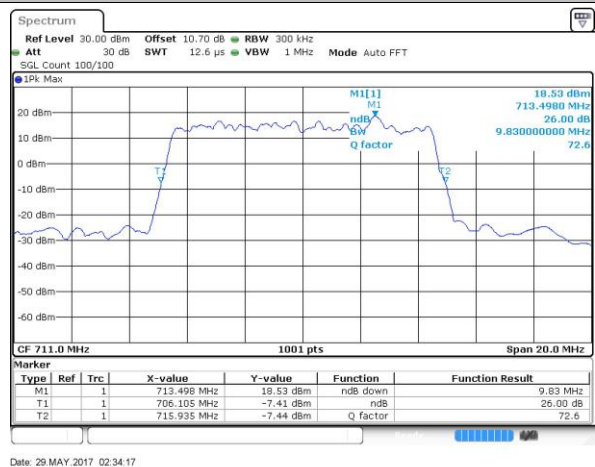
Lowest Channel / 10MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 10MHz / 64QAM



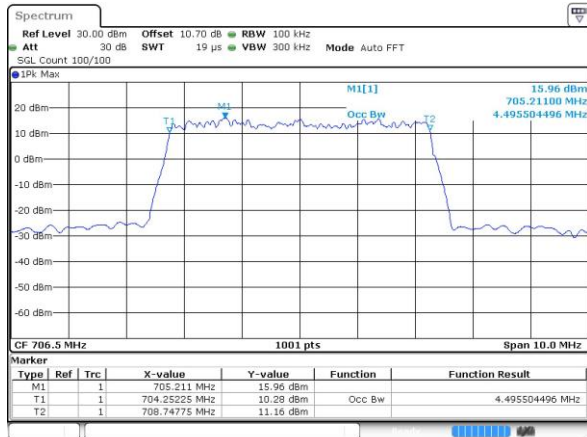
**Occupied Bandwidth**

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	-	-	-	-	4.5	4.49	9.07	8.99	-	-	-	-
Middle CH	-	-	-	-	4.5	4.48	9.09	8.97	-	-	-	-
Highest CH	-	-	-	-	4.49	4.48	8.99	9.03	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	-	-	-	-	4.48	-	9.03	-	-	-	-
Middle CH	-	-	-	-	-	4.48	-	8.93	-	-	-	-
Highest CH	-	-	-	-	-	4.5	-	9.03	-	-	-	-



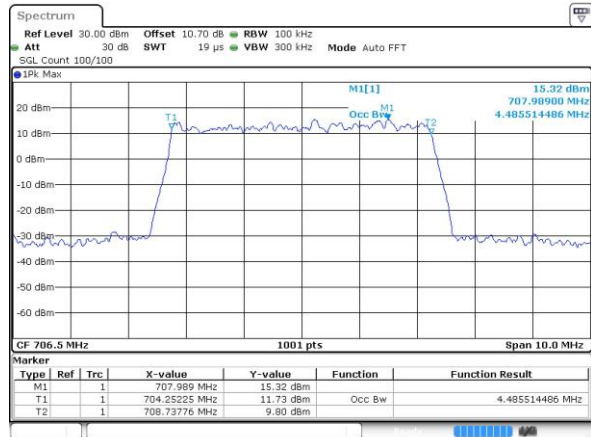
LTE Band 17

Lowest Channel / 5MHz / QPSK



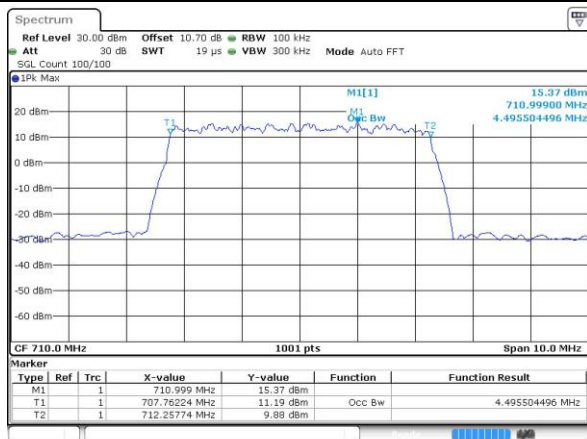
Date: 16 MAY 2017 00:29:38

Lowest Channel / 5MHz / 16QAM



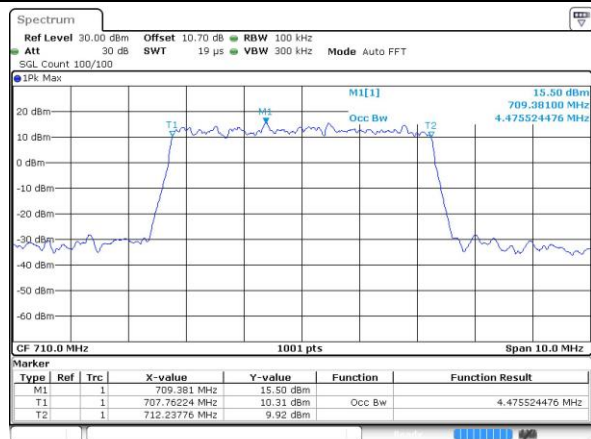
Date: 16 MAY 2017 00:29:48

Middle Channel / 5MHz / QPSK



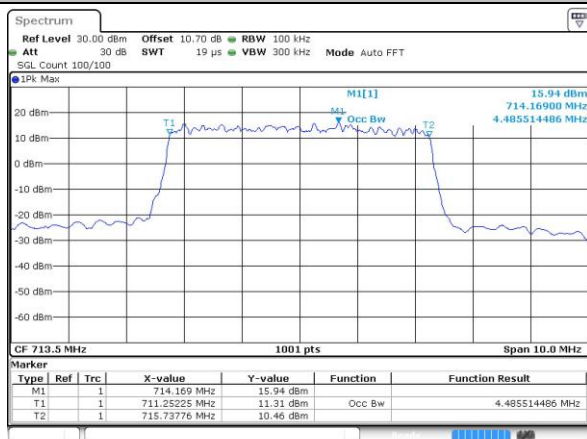
Date: 16 MAY 2017 00:36:44

Middle Channel / 5MHz / 16QAM



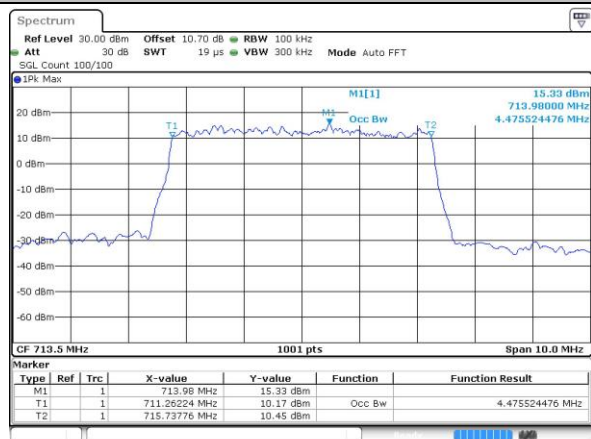
Date: 16 MAY 2017 00:36:55

Highest Channel / 5MHz / QPSK



Date: 16 MAY 2017 00:40:46

Highest Channel / 5MHz / 16QAM

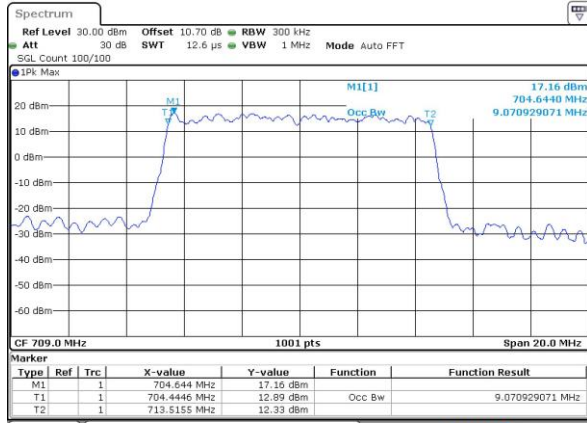


Date: 16 MAY 2017 00:40:57



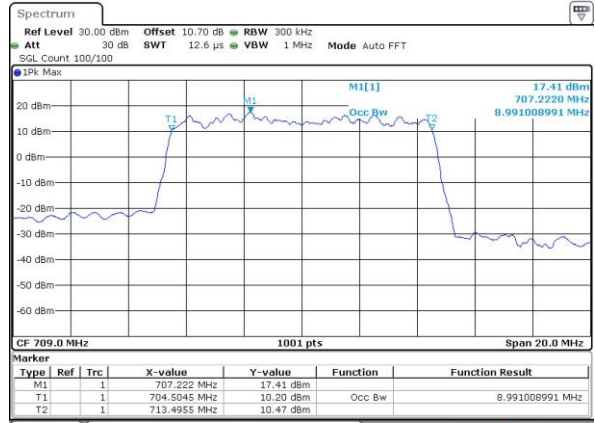
LTE Band 17

Lowest Channel / 10MHz / QPSK



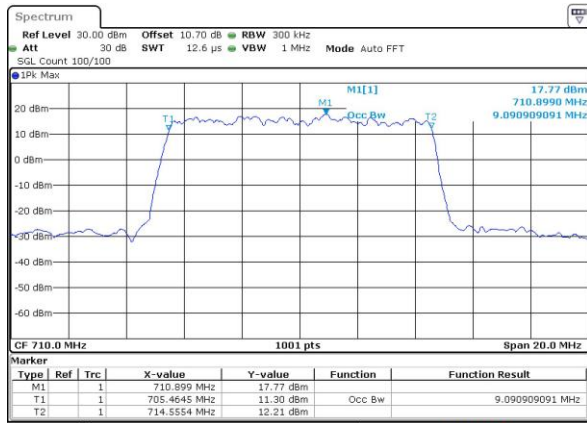
Date: 16 MAY 2017 00:47:53

Lowest Channel / 10MHz / 16QAM



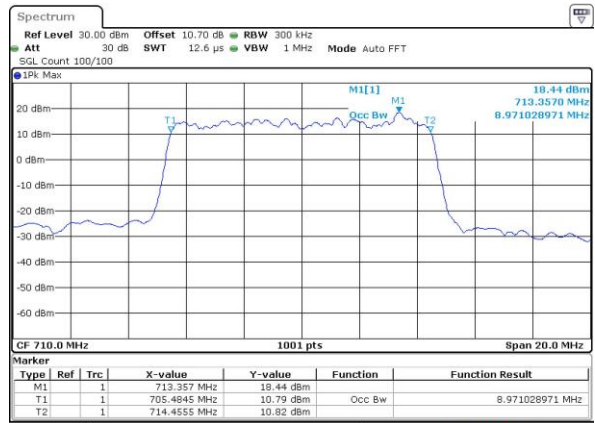
Date: 16 MAY 2017 00:48:03

Middle Channel / 10MHz / QPSK



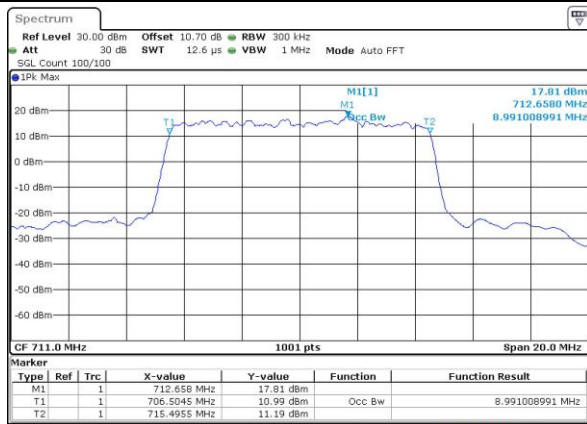
Date: 16 MAY 2017 00:54:58

Middle Channel / 10MHz / 16QAM



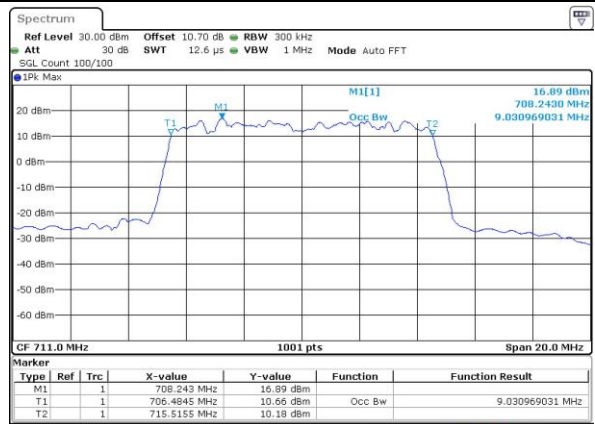
Date: 16 MAY 2017 00:55:09

Highest Channel / 10MHz / QPSK



Date: 16 MAY 2017 00:57:29

Highest Channel / 10MHz / 16QAM

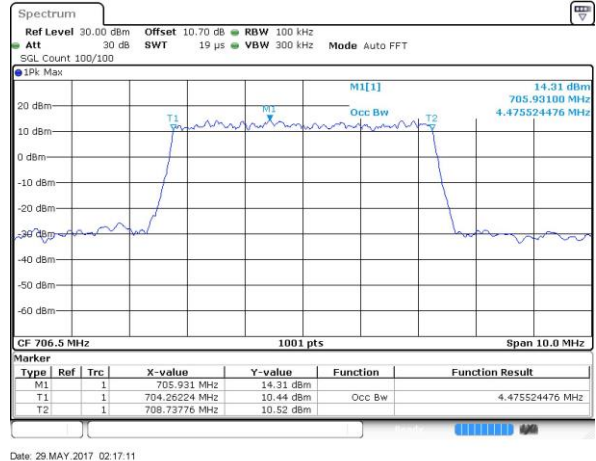


Date: 16 MAY 2017 00:57:39

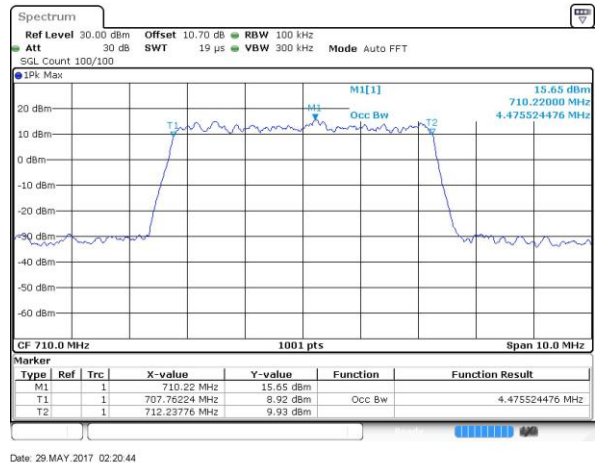


LTE Band 17

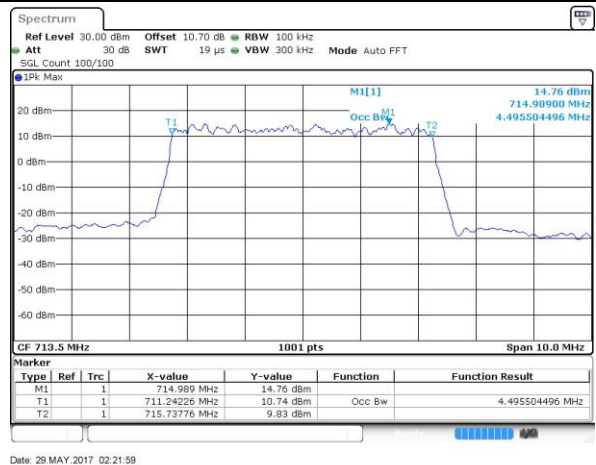
Lowest Channel / 5MHz / 64QAM



Middle Channel / 5MHz / 64QAM



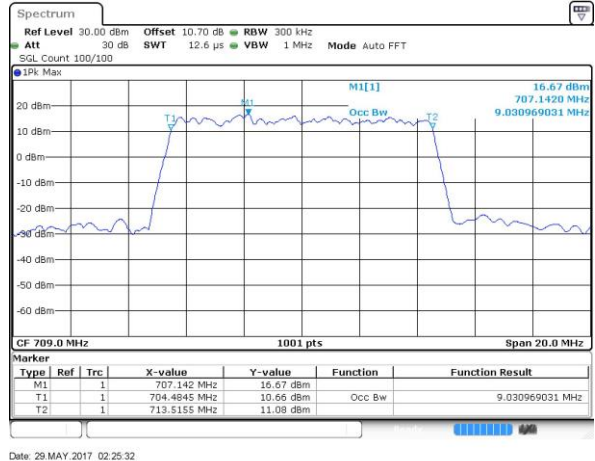
Highest Channel / 5MHz / 64QAM



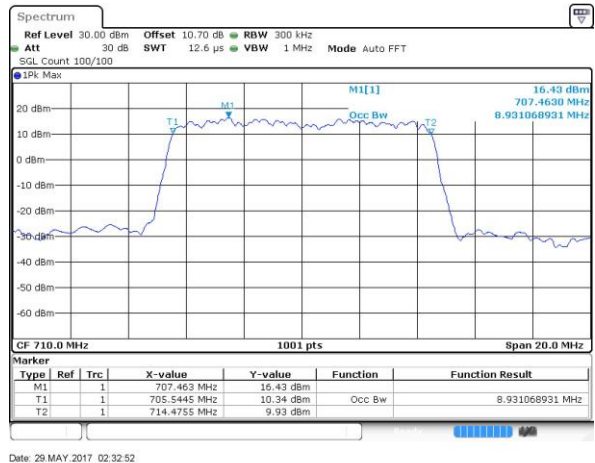


LTE Band 17

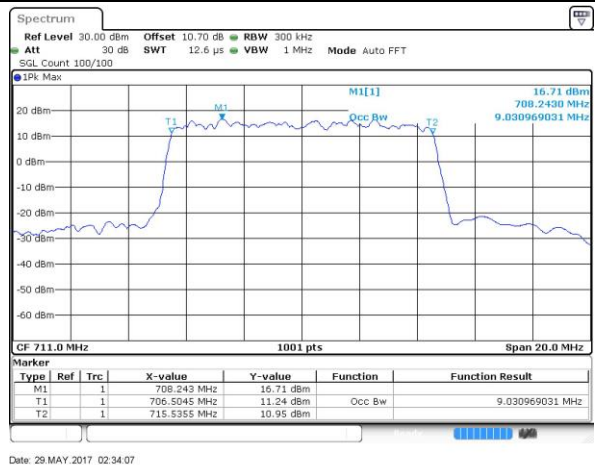
Lowest Channel / 10MHz / 64QAM

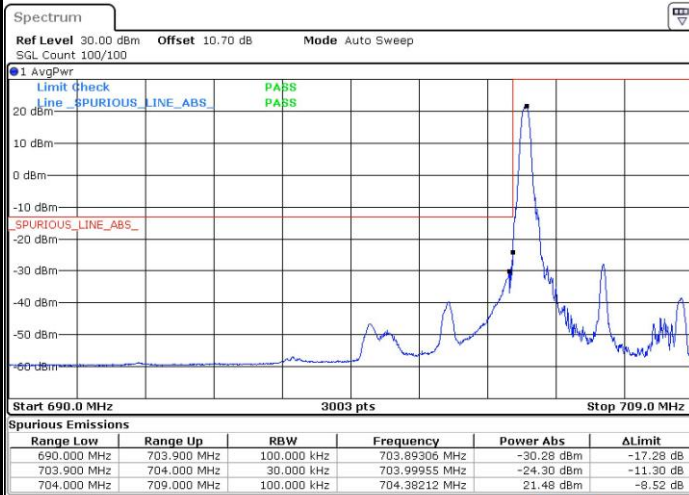
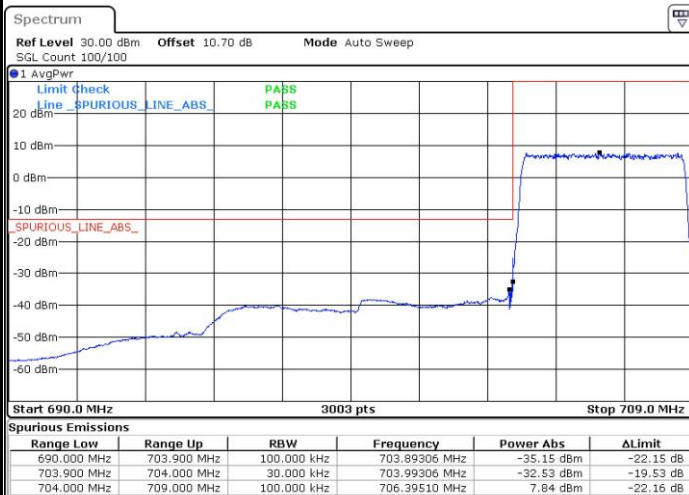


Middle Channel / 10MHz / 64QAM



Highest Channel / 10MHz / 64QAM



**Conducted Band Edge****LTE Band 17 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**