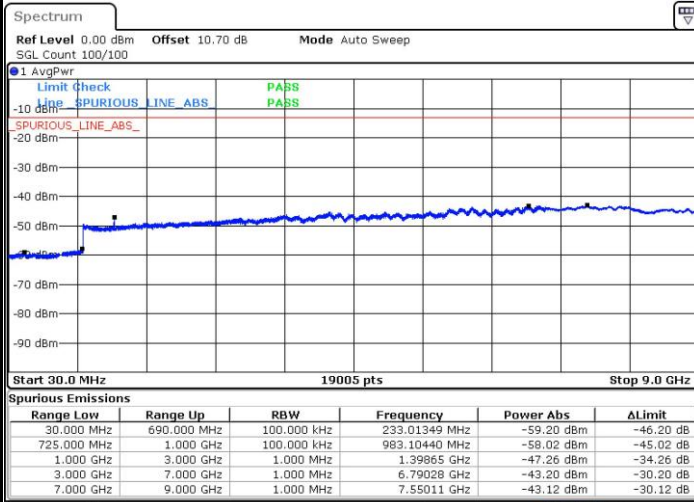




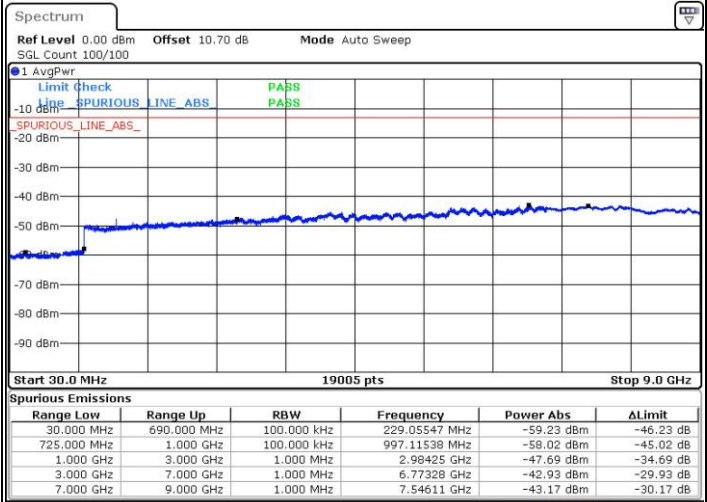
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



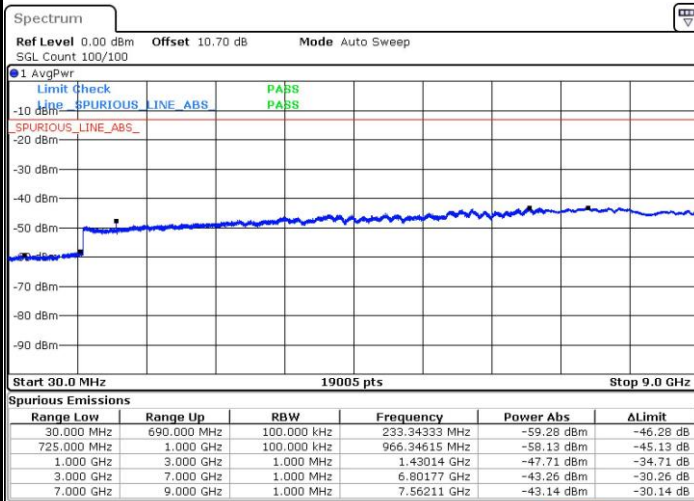
Date: 2 AUG. 2019 14:15:50

Middle Channel / 64QAM



Date: 2 AUG. 2019 14:17:14

Highest Channel / 64QAM

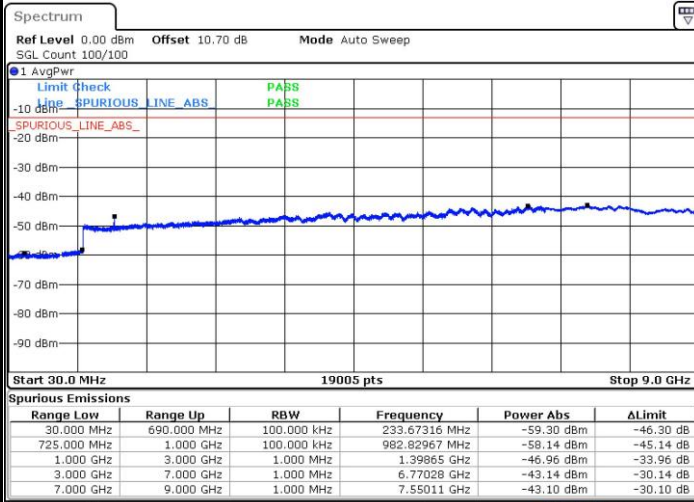


Date: 2 AUG. 2019 14:20:01



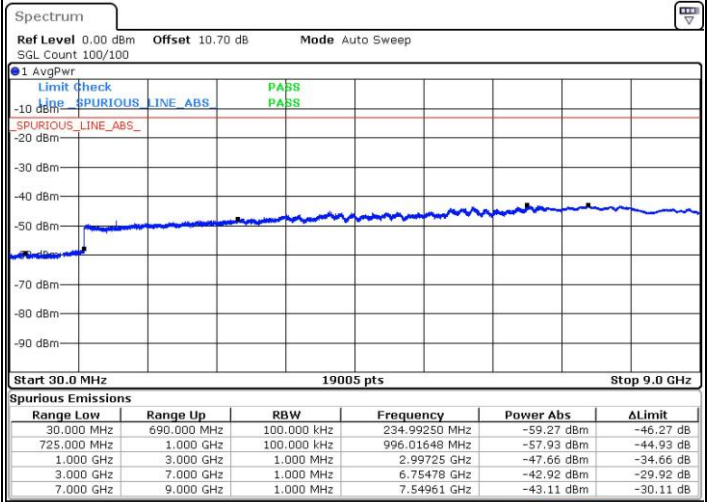
LTE Band 12 / 3MHz

Lowest Channel / 64QAM



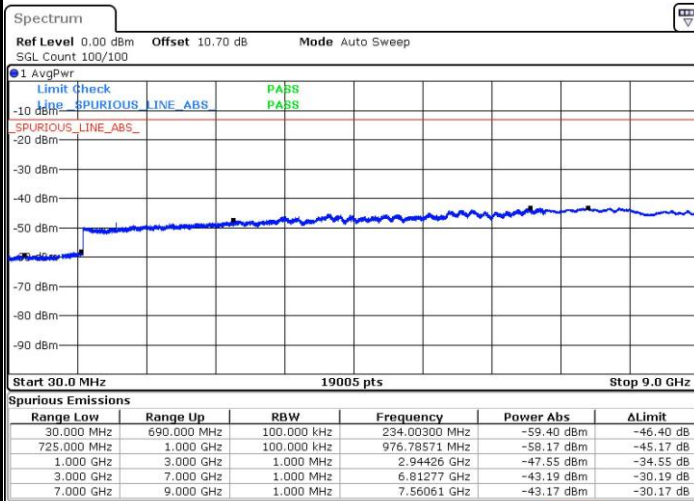
Date: 2 AUG. 2019 14:36:50

Middle Channel / 64QAM



Date: 2 AUG 2019 14:38:14

Highest Channel / 64QAM

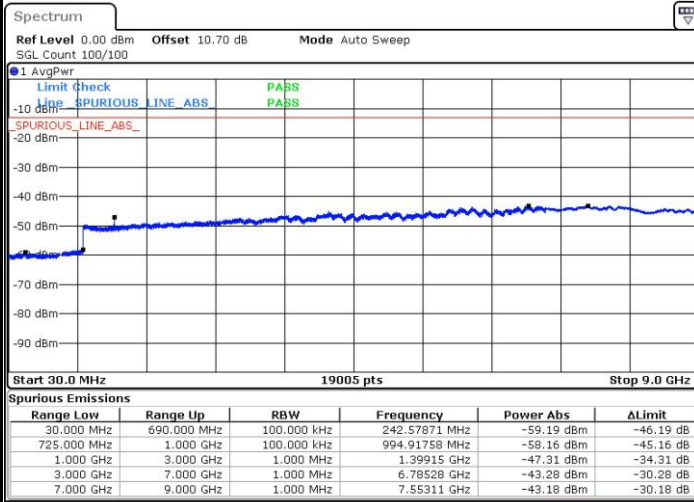


Date: 2 AUG. 2019 14:41:02



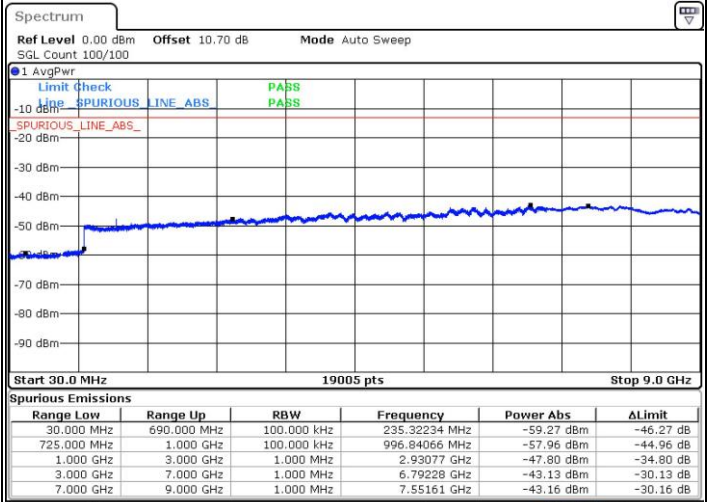
LTE Band 12 / 5MHz

Lowest Channel / 64QAM



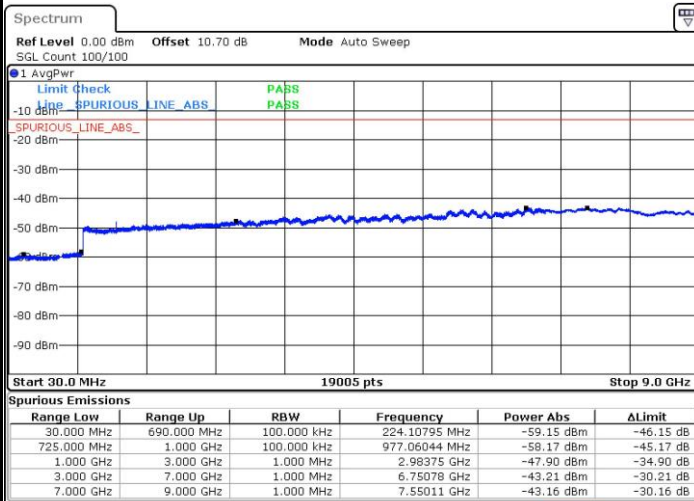
Date: 2 AUG.2019 14:43:50

Middle Channel / 64QAM



Date: 2 AUG.2019 14:45:14

Highest Channel / 64QAM

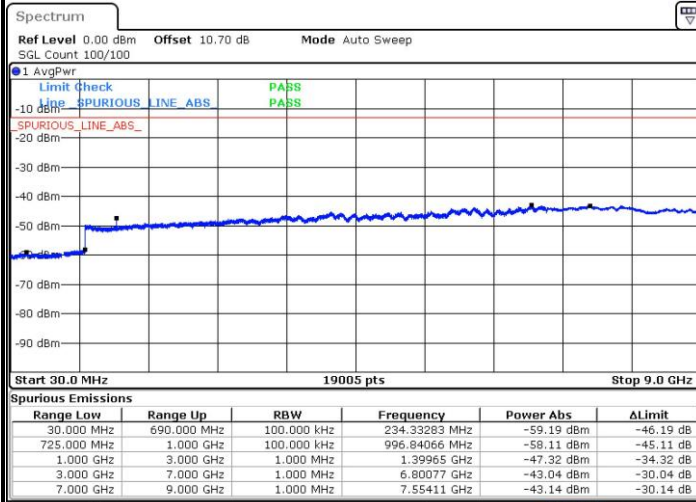


Date: 2 AUG.2019 14:48:01



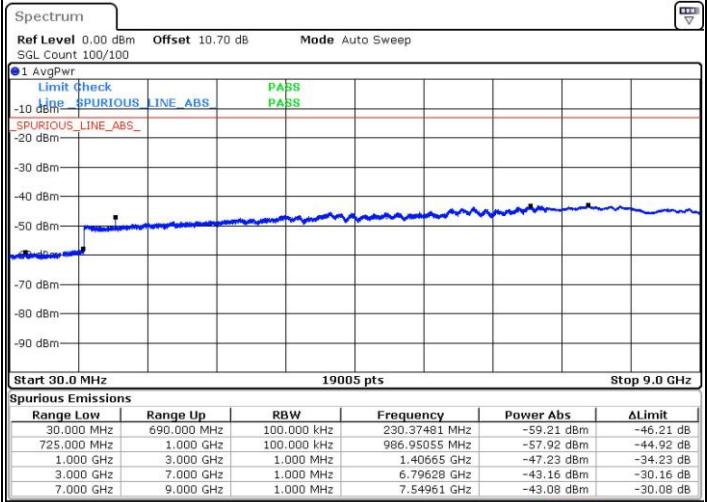
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



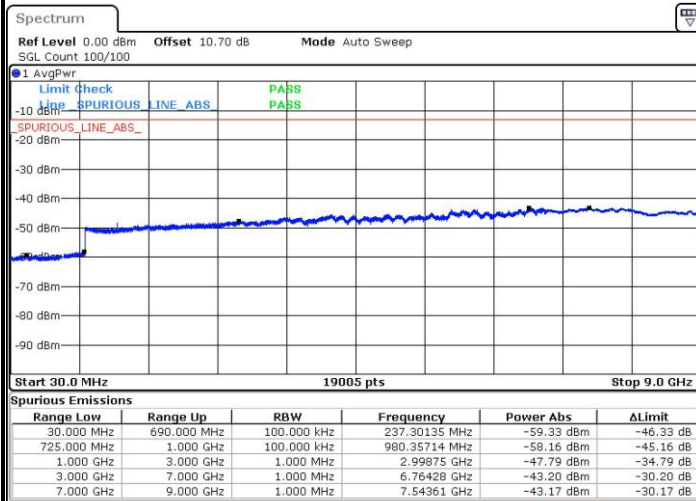
Date: 2 AUG. 2019 15:19:35

Middle Channel / 64QAM



Date: 2 AUG. 2019 15:21:00

Highest Channel / 64QAM



Date: 2 AUG. 2019 15:23:48

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	0.0028	PASS
40	Normal Voltage	0.0199	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0170	
0	Normal Voltage	0.0062	
-10	Normal Voltage	0.0042	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0209	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0054	

Note:

1. Normal Voltage =4 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



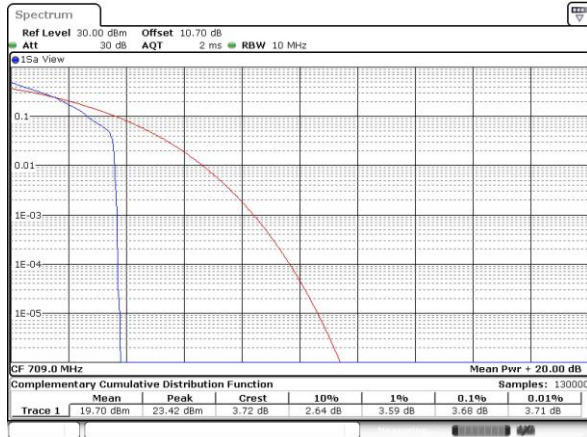
LTE Band 17

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	3.68	4.70	5.16	5.91	PASS
Middle CH	3.65	4.78	5.16	5.94	
Highest CH	3.62	4.75	5.04	6.03	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.49	6.55	-	-	PASS
Middle CH	6.55	6.58	-	-	
Highest CH	6.06	6.70	-	-	

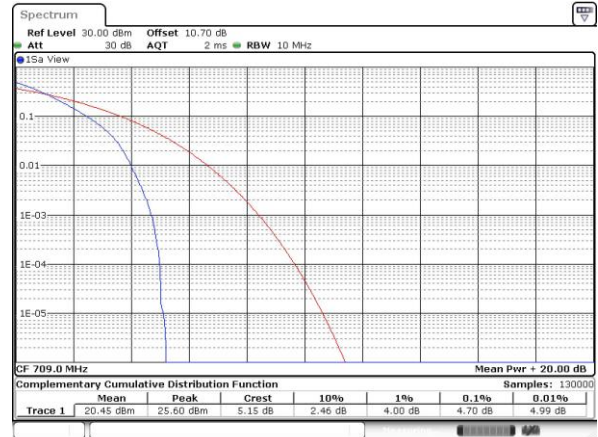
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 2 AUG 2019 16:20:07

Lowest Channel / Full RB



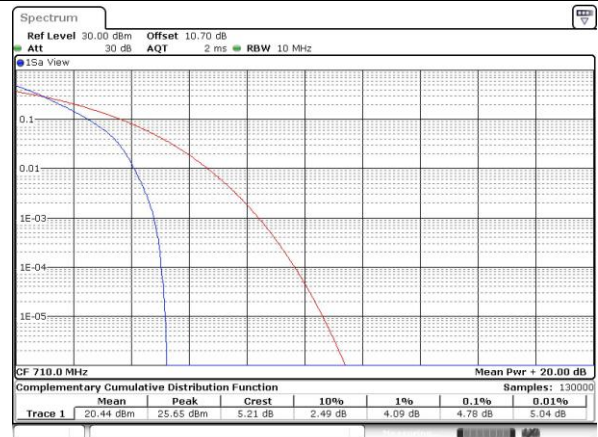
Date: 2 AUG 2019 16:20:18

Middle Channel / 1RB



Date: 2 AUG 2019 16:20:57

Middle Channel / Full RB



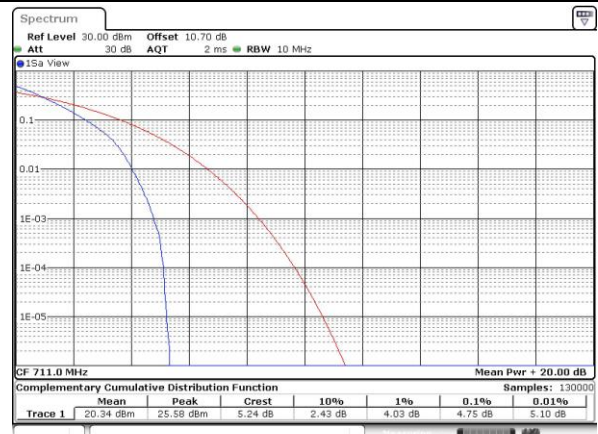
Date: 2 AUG 2019 16:21:33

Highest Channel / 1RB



Date: 2 AUG 2019 16:21:44

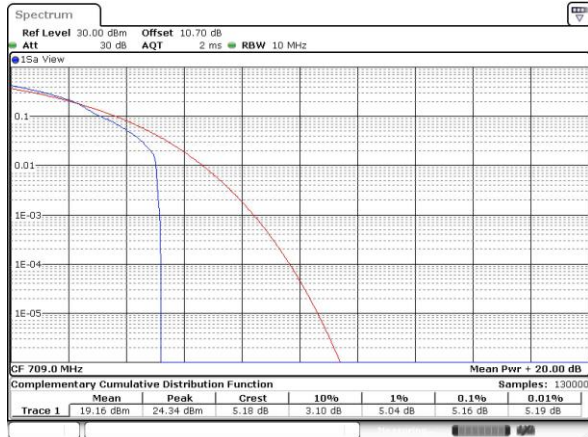
Highest Channel / Full RB



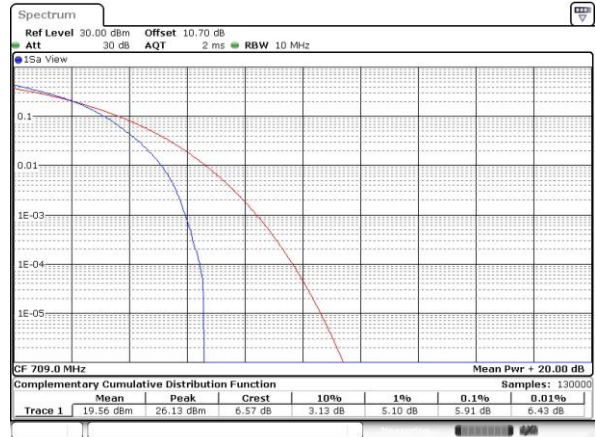
Date: 2 AUG 2019 16:28:28

LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB

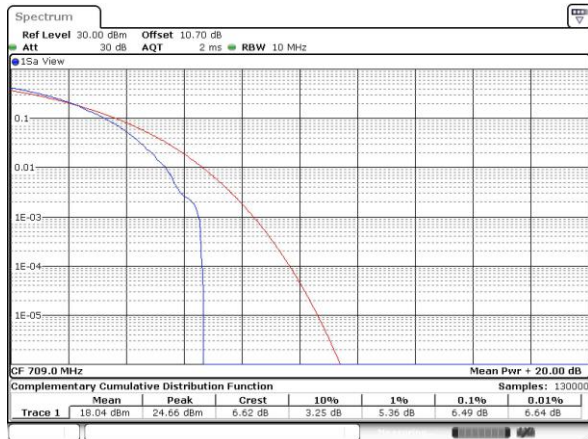


Highest Channel / Full RB



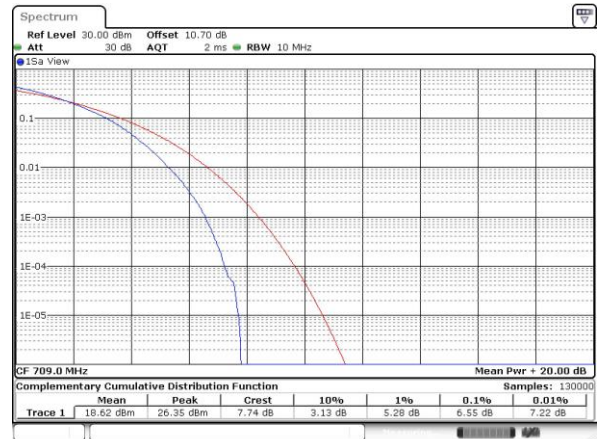
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



Date: 2 AUG 2019 16:28:40

Lowest Channel / Full RB



Date: 2 AUG 2019 16:28:51

Middle Channel / 1RB



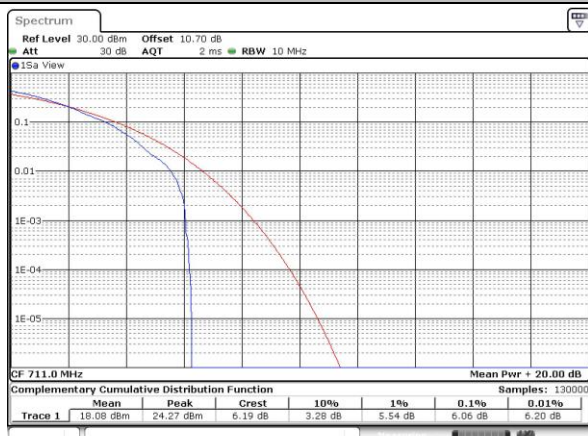
Date: 2 AUG 2019 16:29:03

Middle Channel / Full RB



Date: 2 AUG 2019 16:29:15

Highest Channel / 1RB



Date: 2 AUG 2019 16:29:32

Highest Channel / Full RB



Date: 2 AUG 2019 16:29:44

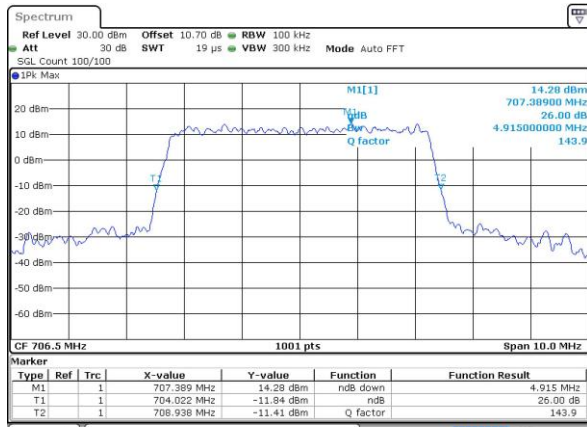
**26dB Bandwidth**

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	4.93	9.93	9.77	-	-	-	-
Middle CH	-	-	-	-	4.85	4.90	9.69	9.83	-	-	-	-
Highest CH	-	-	-	-	4.90	4.87	9.71	9.79	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.83	-	9.91	-	-	-	-	-
Middle CH	-	-	-	-	5.01	-	9.81	-	-	-	-	-
Highest CH	-	-	-	-	4.92	-	9.75	-	-	-	-	-

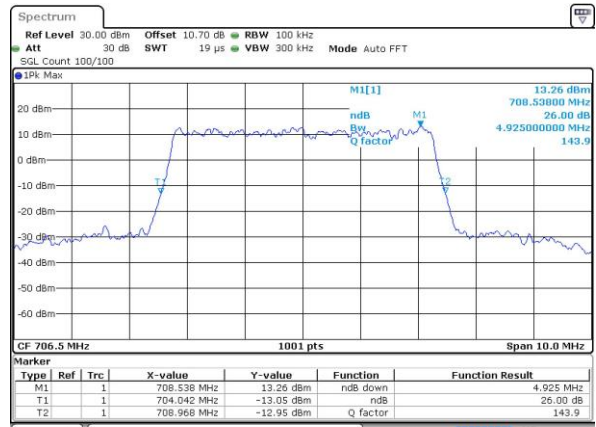


LTE Band 17

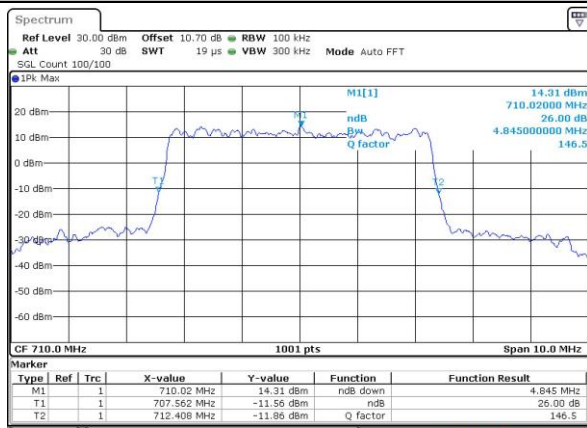
Lowest Channel / 5MHz / QPSK



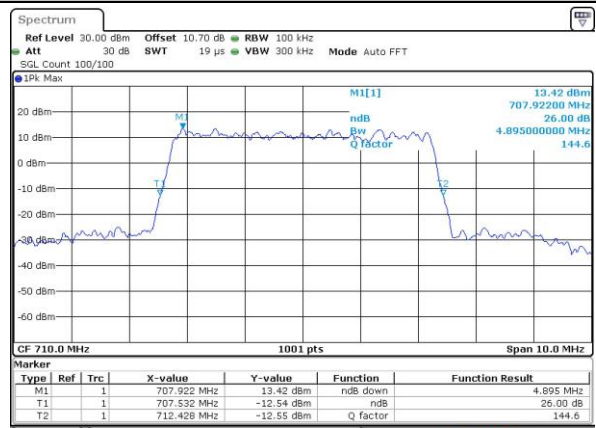
Lowest Channel / 5MHz / 16QAM



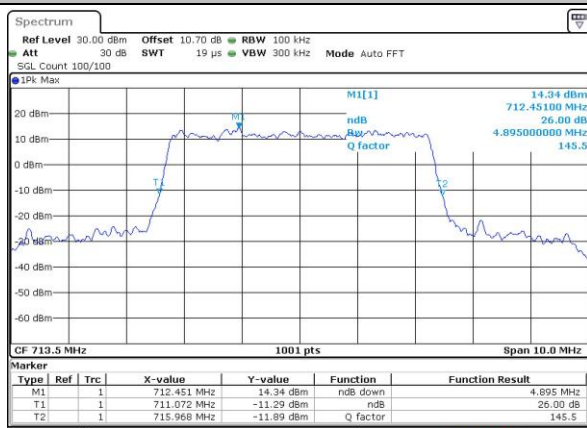
Middle Channel / 5MHz / QPSK



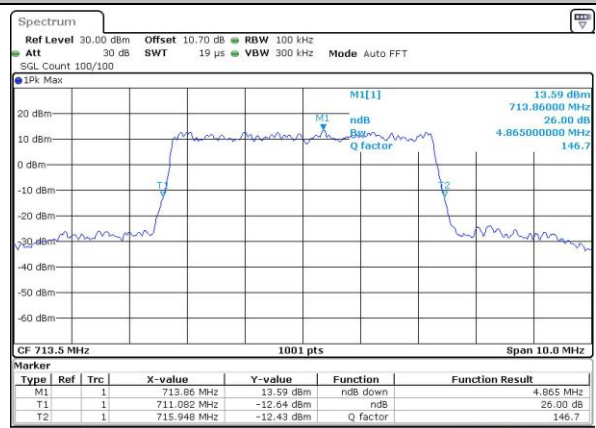
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM





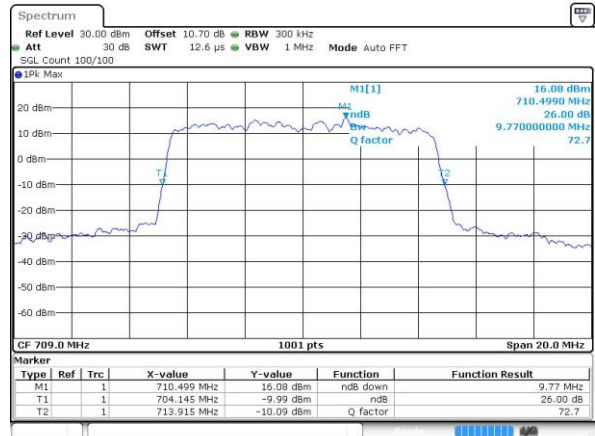
LTE Band 17

Lowest Channel / 10MHz / QPSK



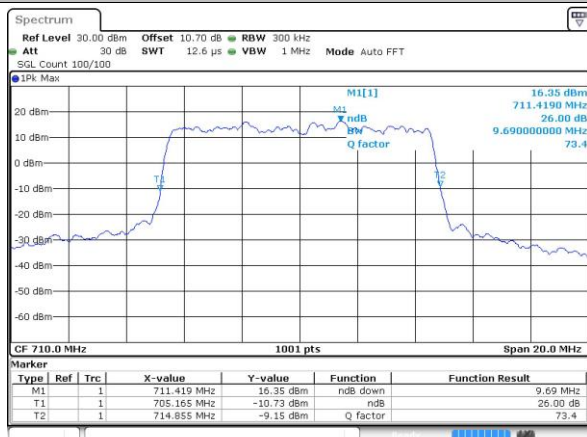
Date: 2 AUG 2019 15:49:21

Lowest Channel / 10MHz / 16QAM



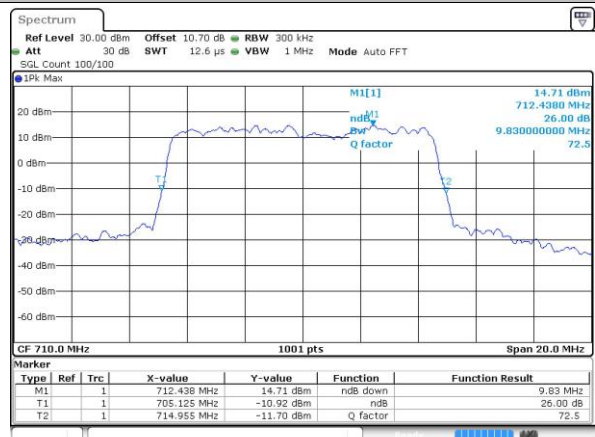
Date: 2 AUG 2019 15:49:33

Middle Channel / 10MHz / QPSK



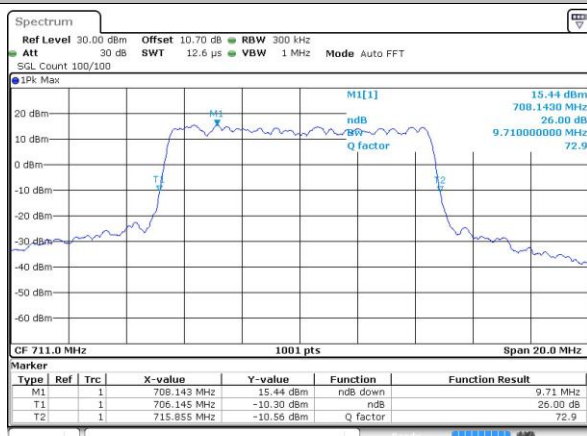
Date: 2 AUG 2019 15:55:11

Middle Channel / 10MHz / 16QAM



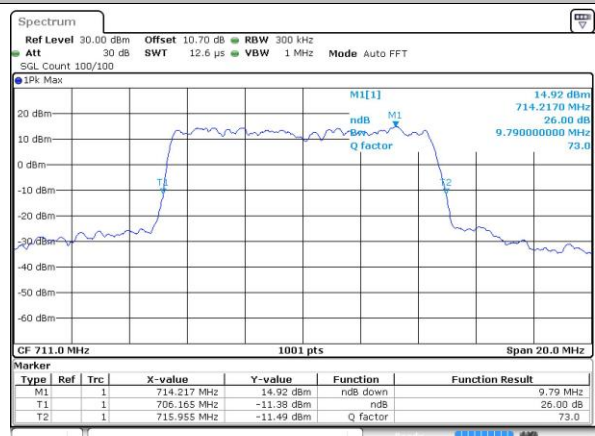
Date: 2 AUG 2019 15:55:22

Highest Channel / 10MHz / QPSK



Date: 2 AUG 2019 15:58:00

Highest Channel / 10MHz / 16QAM

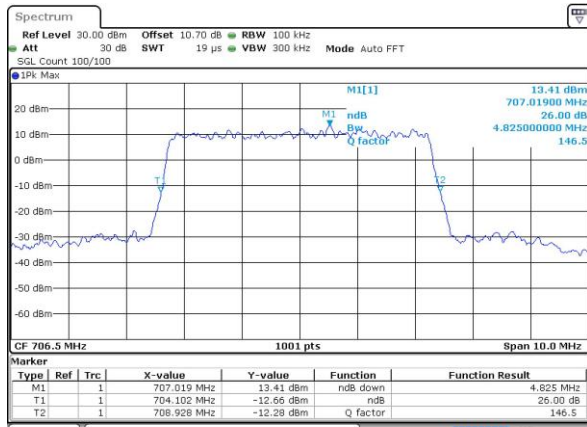


Date: 2 AUG 2019 15:58:12



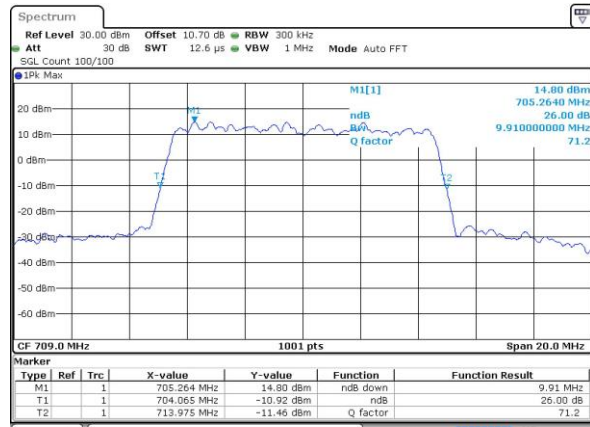
LTE Band 17

Lowest Channel / 5MHz / 64QAM



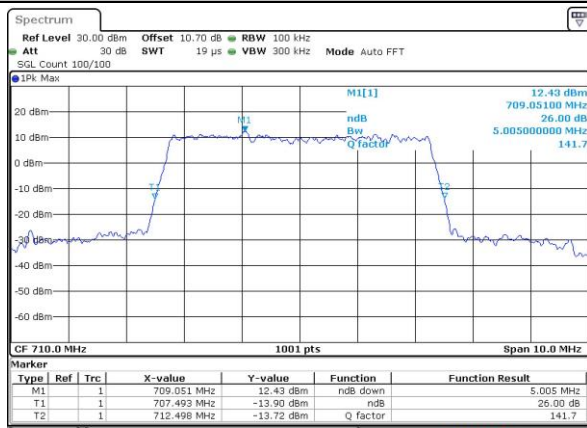
Date: 2 AUG 2019 16:03:24

Lowest Channel / 10MHz / 64QAM



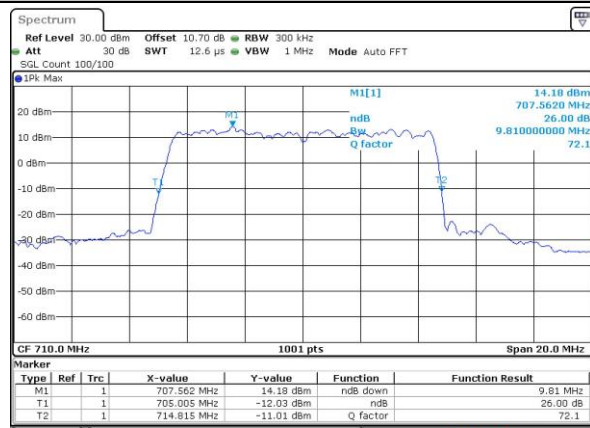
Date: 2 AUG 2019 16:10:32

Middle Channel / 5MHz / 64QAM



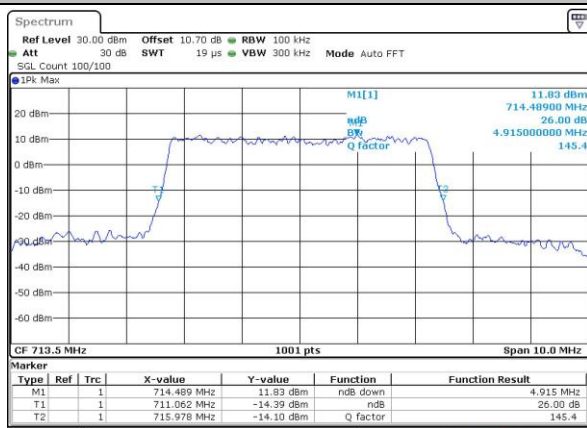
Date: 2 AUG 2019 16:06:19

Middle Channel / 10MHz / 64QAM



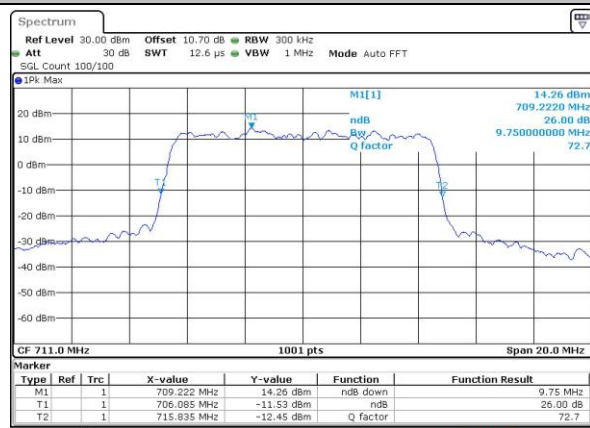
Date: 2 AUG 2019 16:13:26

Highest Channel / 5MHz / 64QAM



Date: 2 AUG 2019 16:07:43

Highest Channel / 10MHz / 64QAM



Date: 2 AUG 2019 16:14:51

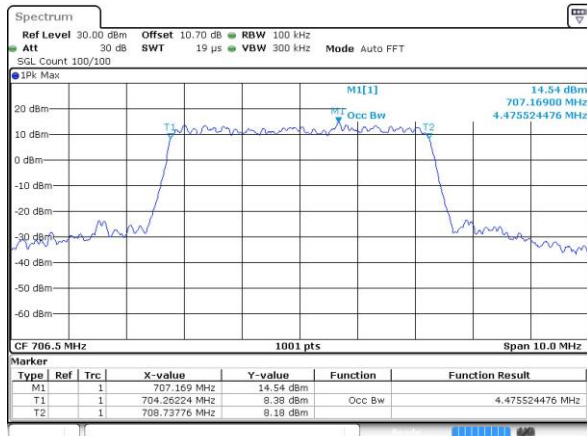
**Occupied Bandwidth**

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	-	-	-	-	4.48	4.49	9.05	9.01	-	-	-	-
Middle CH	-	-	-	-	4.50	4.49	9.07	8.99	-	-	-	-
Highest CH	-	-	-	-	4.50	4.50	9.05	9.09	-	-	-	-
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	-	8.99	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	9.05	-	-	-	-	-



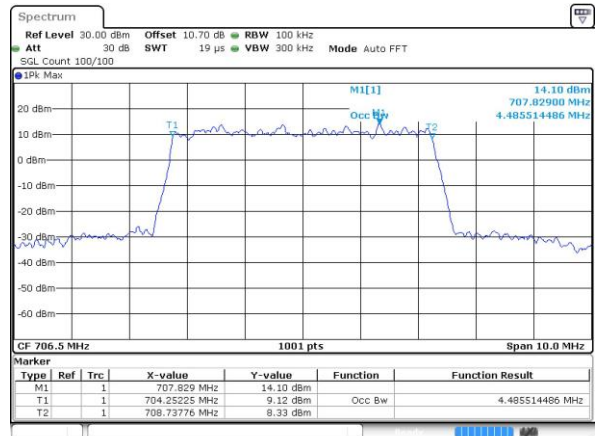
LTE Band 17

Lowest Channel / 5MHz / QPSK



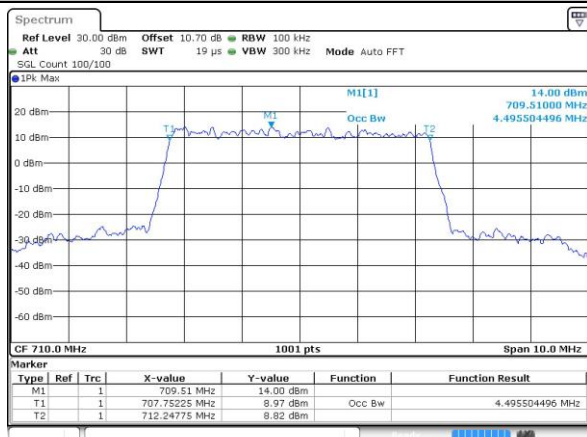
Date: 2 AUG 2019 15:34:41

Lowest Channel / 5MHz / 16QAM



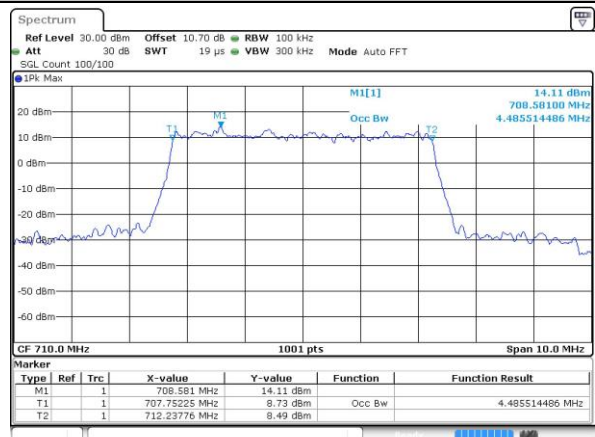
Date: 2 AUG 2019 15:34:54

Middle Channel / 5MHz / QPSK



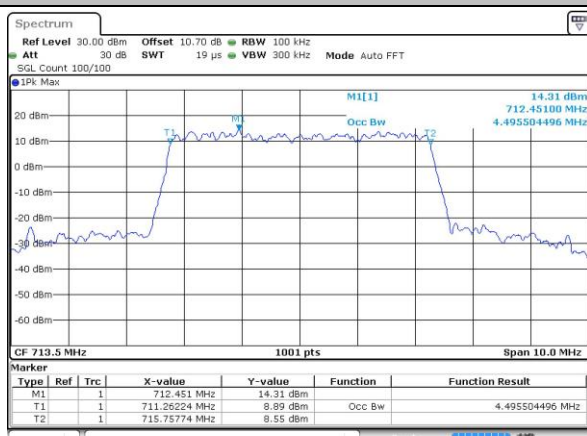
Date: 2 AUG 2019 15:40:31

Middle Channel / 5MHz / 16QAM



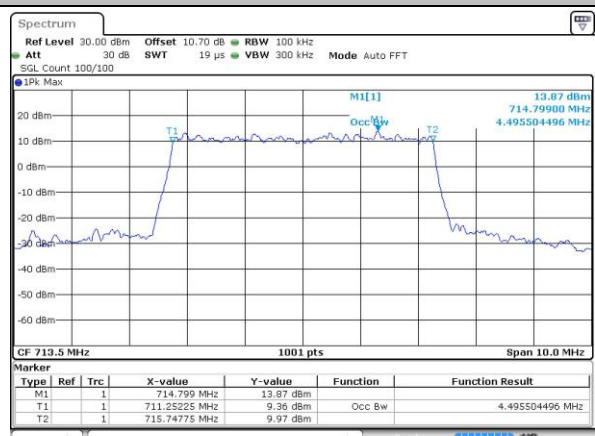
Date: 2 AUG 2019 15:40:43

Highest Channel / 5MHz / QPSK



Date: 2 AUG 2019 15:43:20

Highest Channel / 5MHz / 16QAM

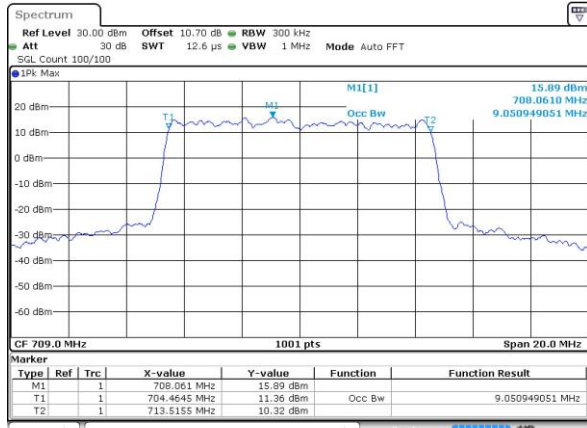


Date: 2 AUG 2019 15:43:32



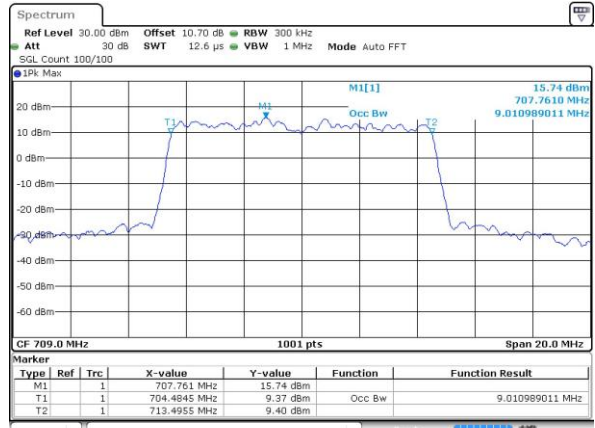
LTE Band 17

Lowest Channel / 10MHz / QPSK



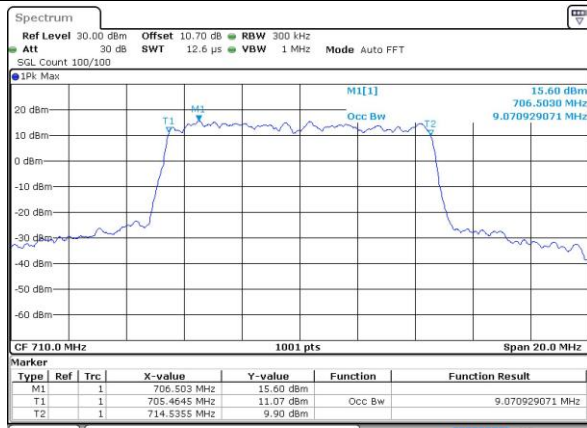
Date: 2 AUG 2019 15:48:56

Lowest Channel / 10MHz / 16QAM



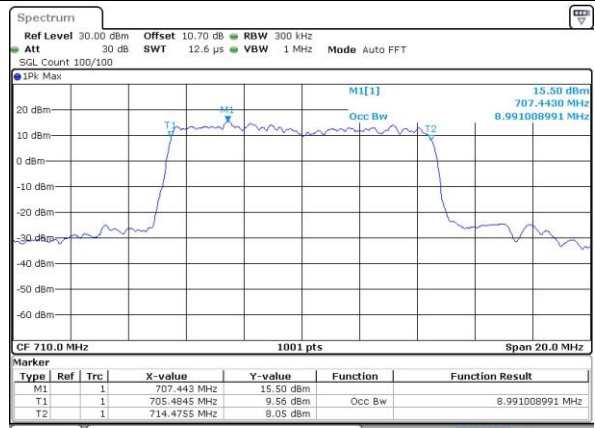
Date: 2 AUG 2019 15:49:09

Middle Channel / 10MHz / QPSK



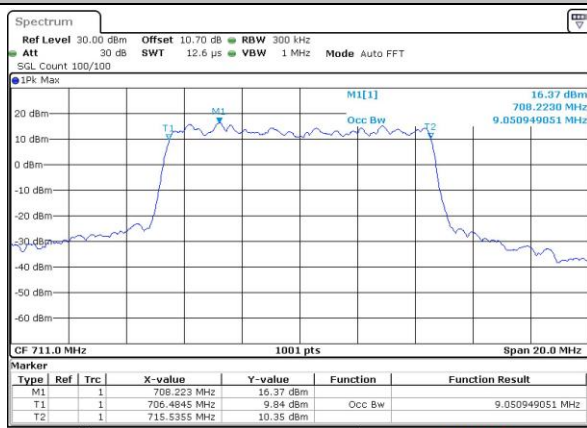
Date: 2 AUG 2019 15:54:47

Middle Channel / 10MHz / 16QAM



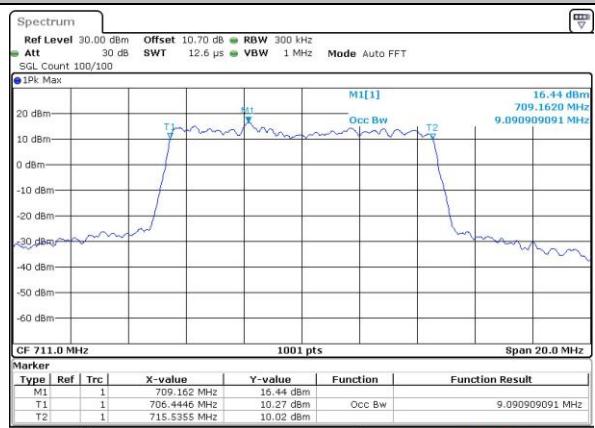
Date: 2 AUG 2019 15:54:59

Highest Channel / 10MHz / QPSK



Date: 2 AUG 2019 15:57:36

Highest Channel / 10MHz / 16QAM

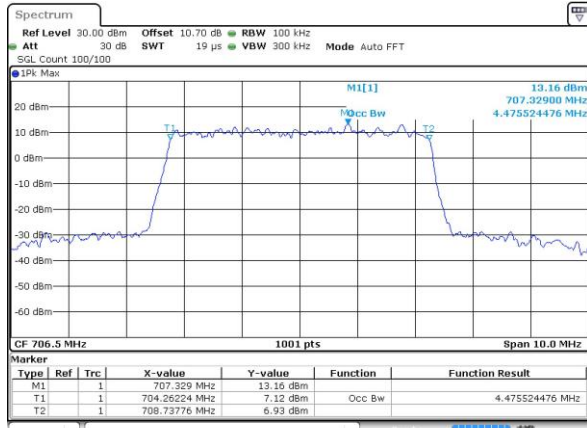


Date: 2 AUG 2019 15:57:48

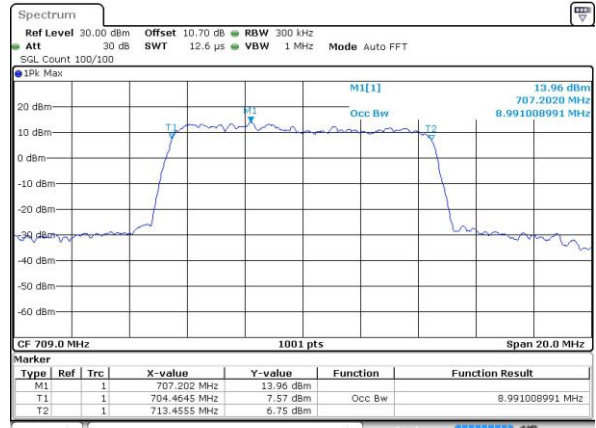


LTE Band 17

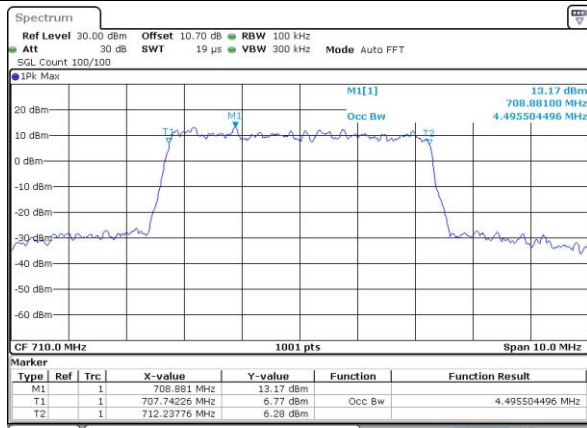
Lowest Channel / 5MHz / 64QAM



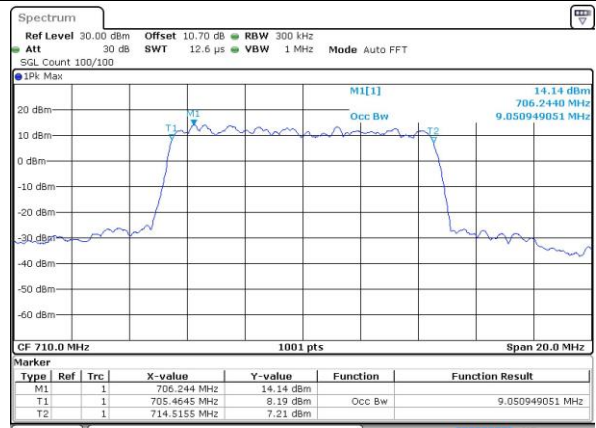
Lowest Channel / 10MHz / 64QAM



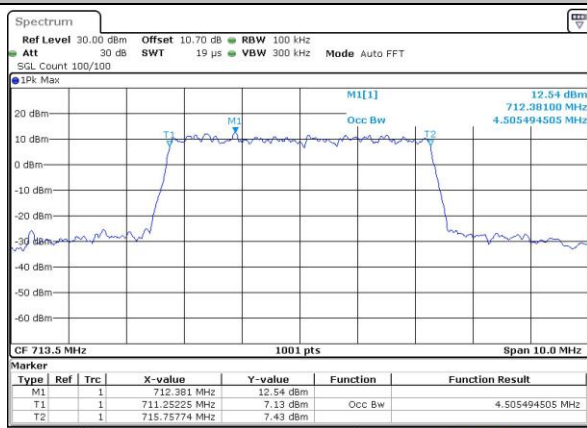
Middle Channel / 5MHz / 64QAM



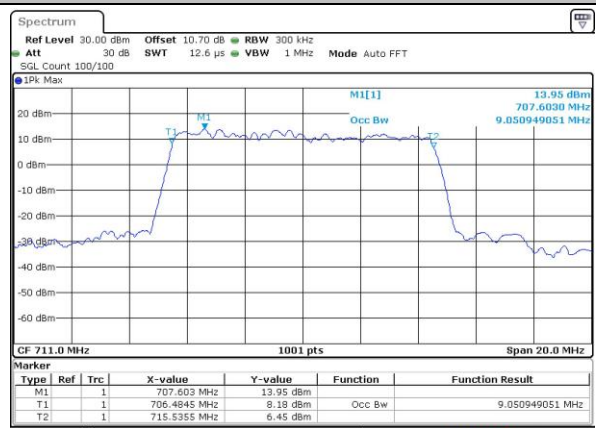
Middle Channel / 10MHz / 64QAM

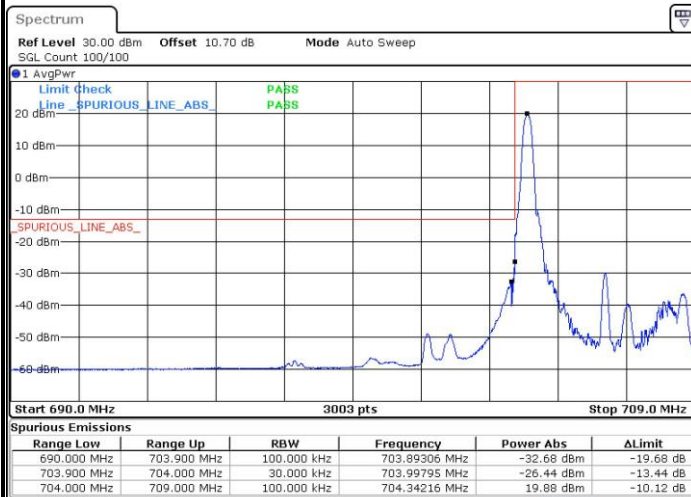
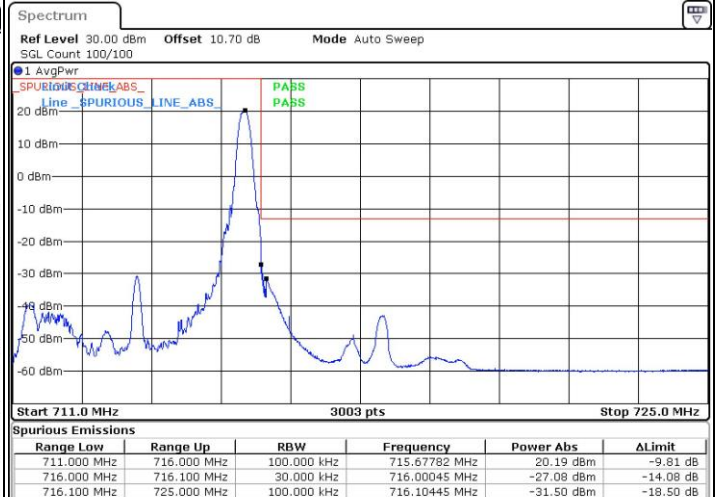


Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

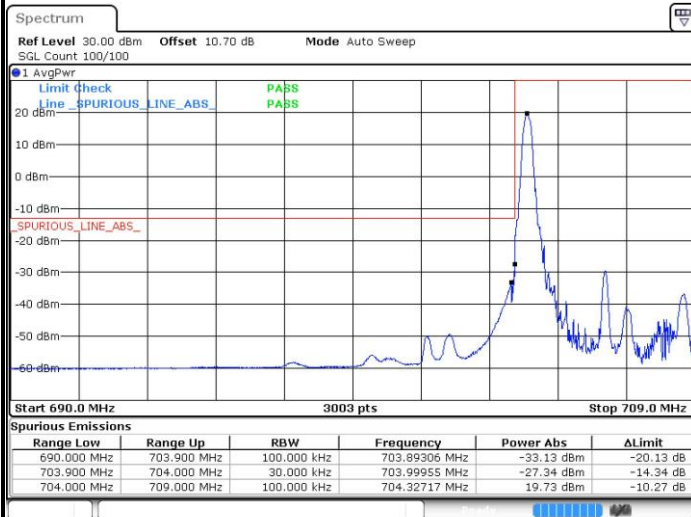


**Conducted Band Edge****LTE Band 17 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

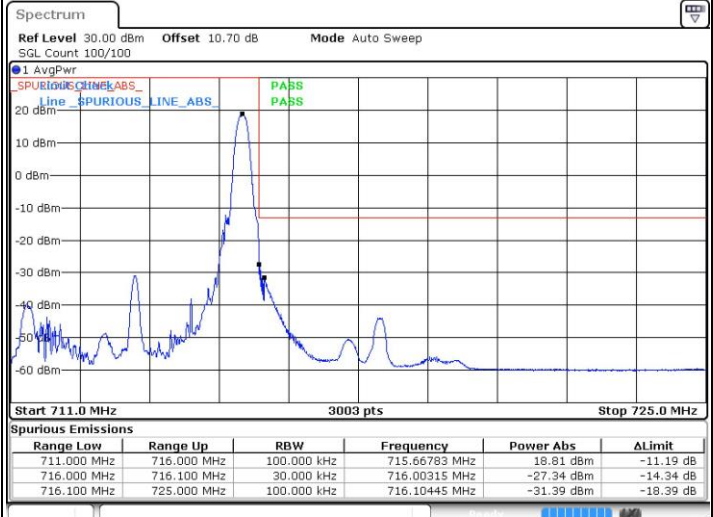


LTE Band 17 / 5MHz / 16QAM

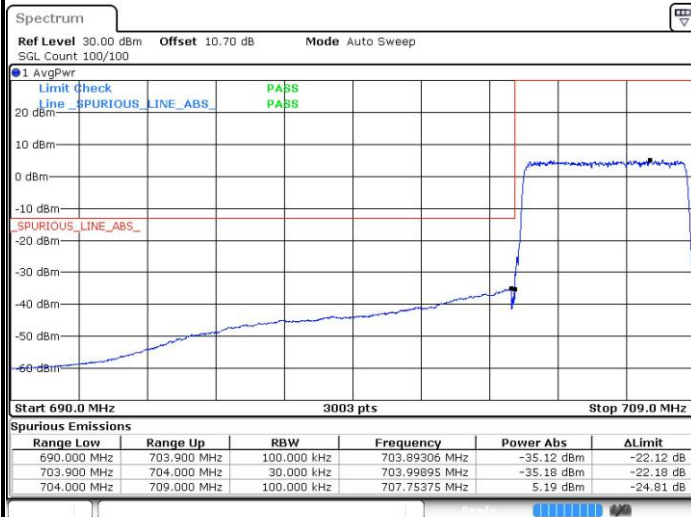
Lowest Band Edge / 1 RB



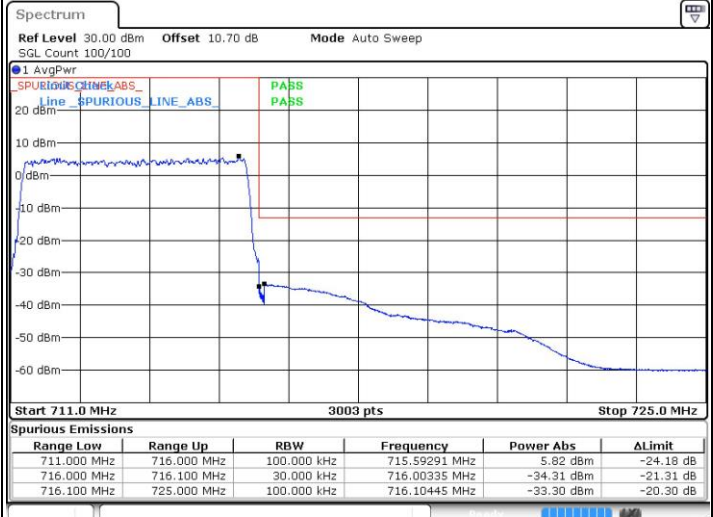
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



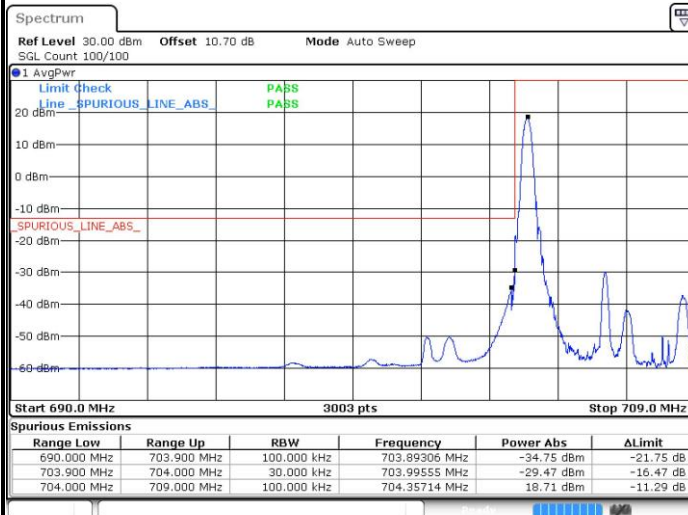
Highest Band Edge / Full RB



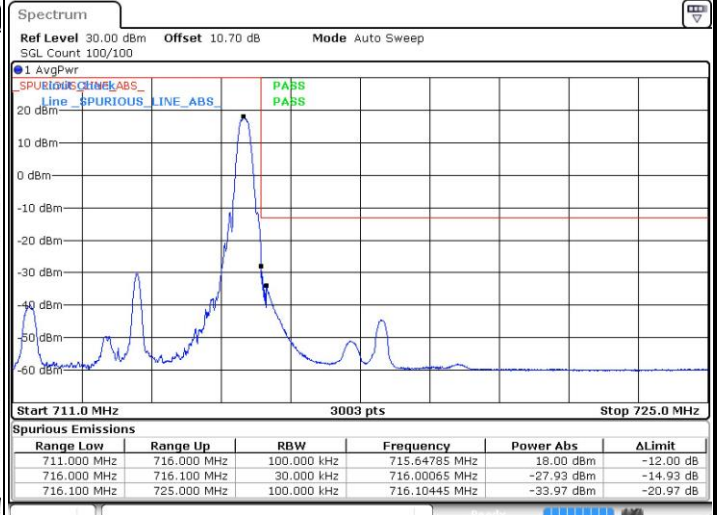


LTE Band 17 / 5MHz / 64QAM

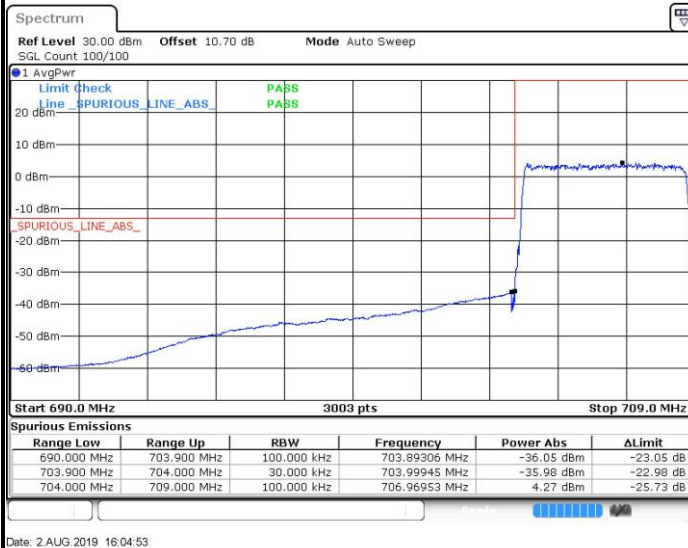
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



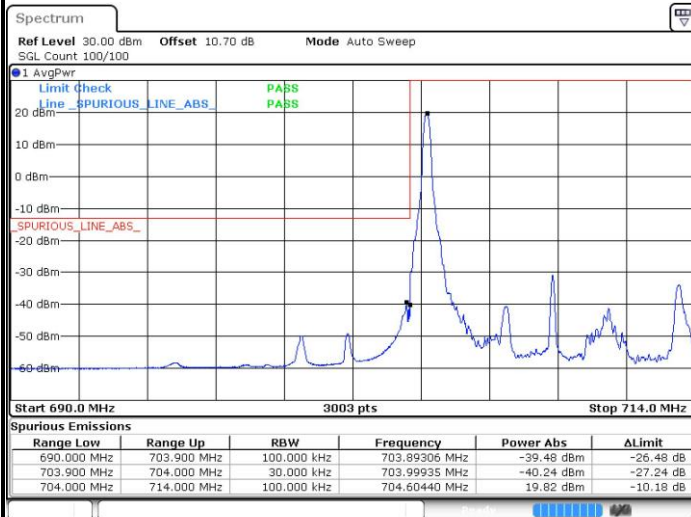
Highest Band Edge / Full RB



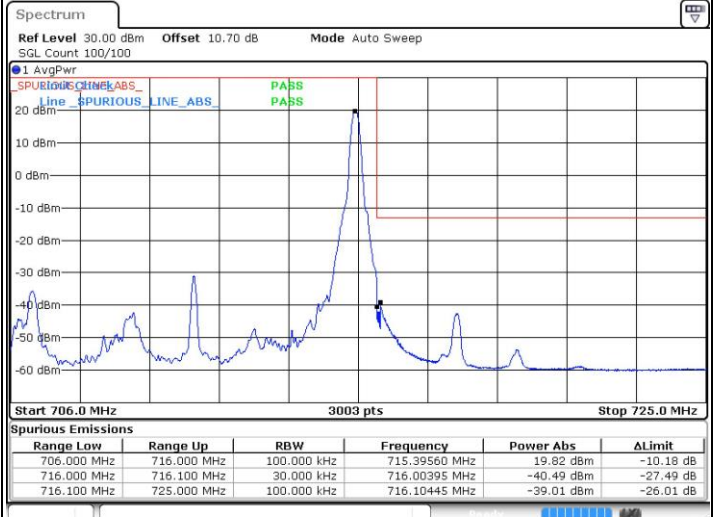


LTE Band 17 / 10MHz / QPSK

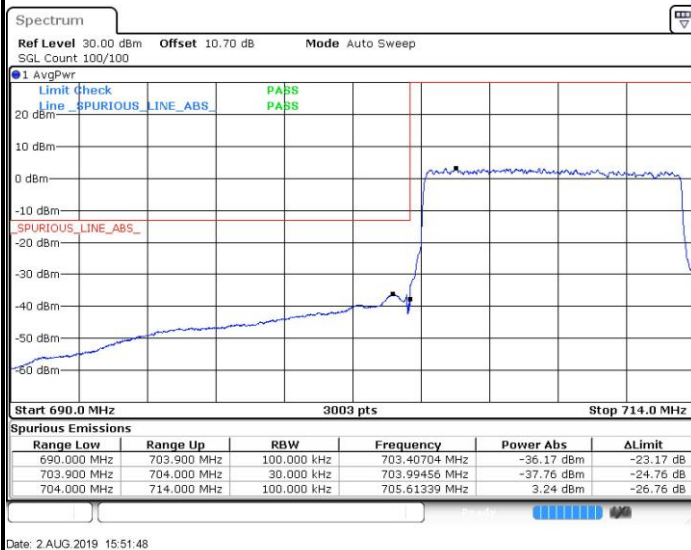
Lowest Band Edge / 1 RB



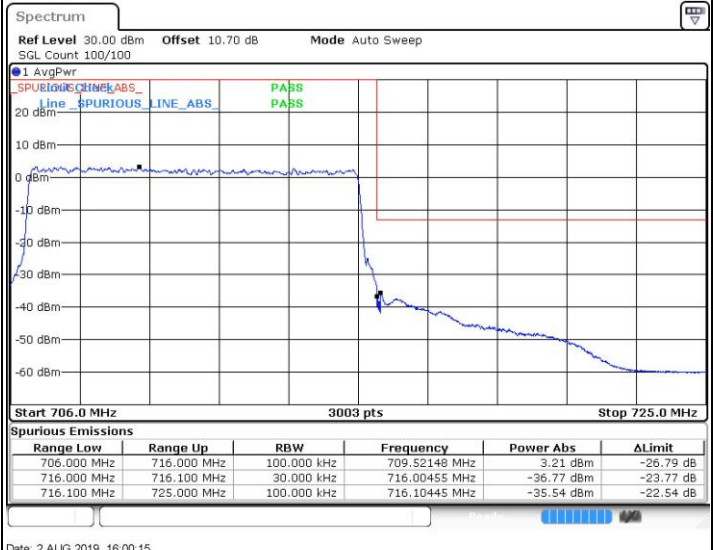
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



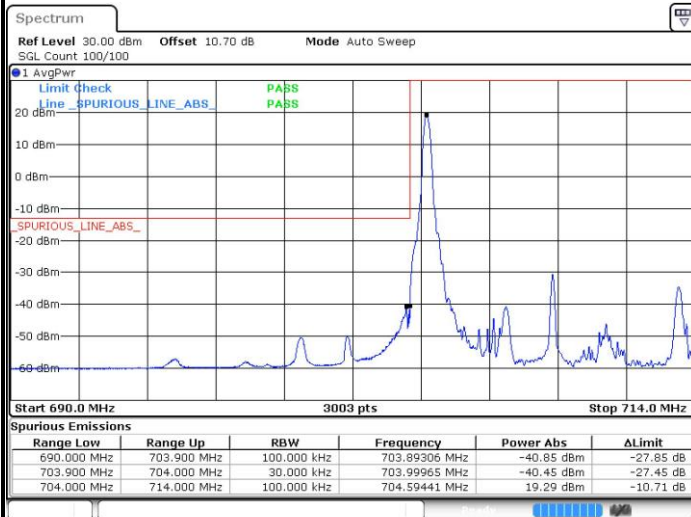
Highest Band Edge / Full RB



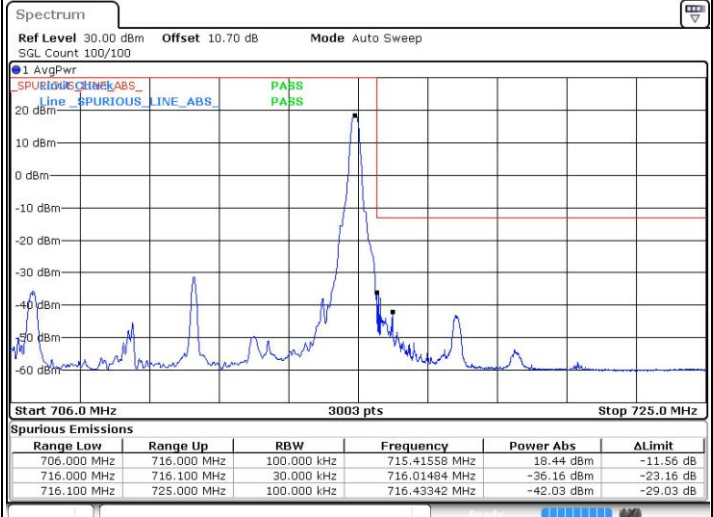


LTE Band 17 / 10MHz / 16QAM

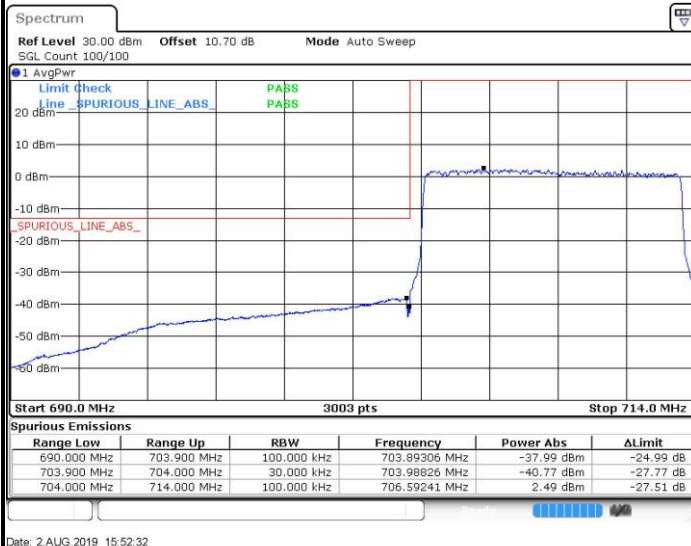
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

