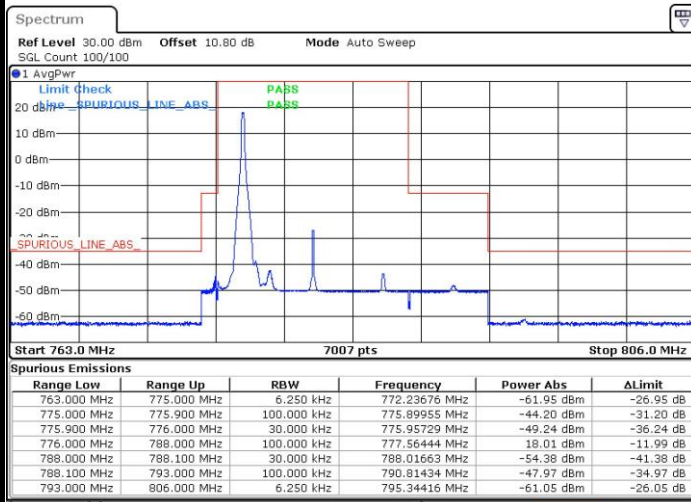




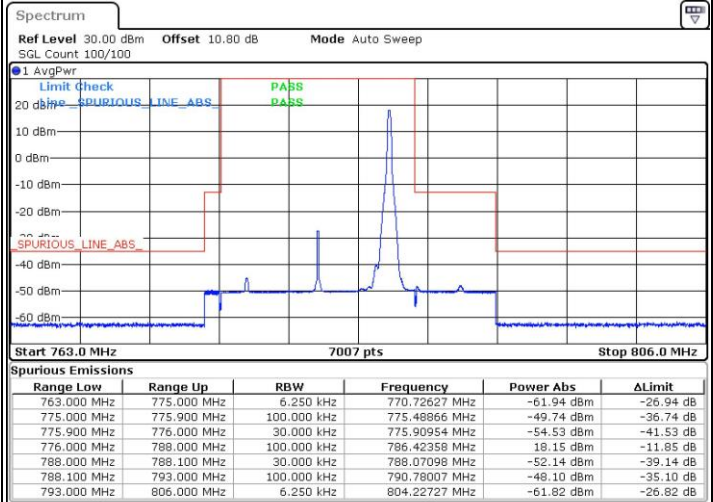
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



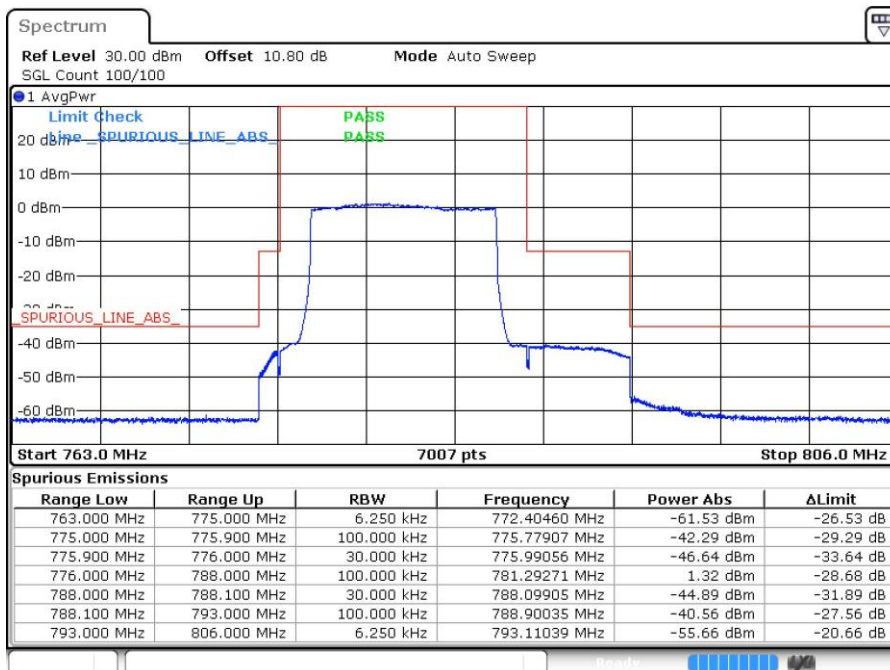
Date: 23.MAR.2019 15:01:32

Highest Band Edge / 1 RB



Date: 23.MAR.2019 15:03:13

Band Edge / Full RB

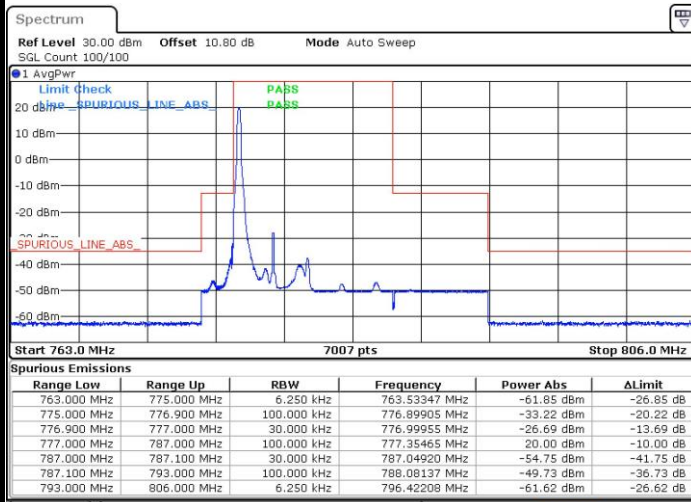


Date: 23.MAR.2019 14:59:51

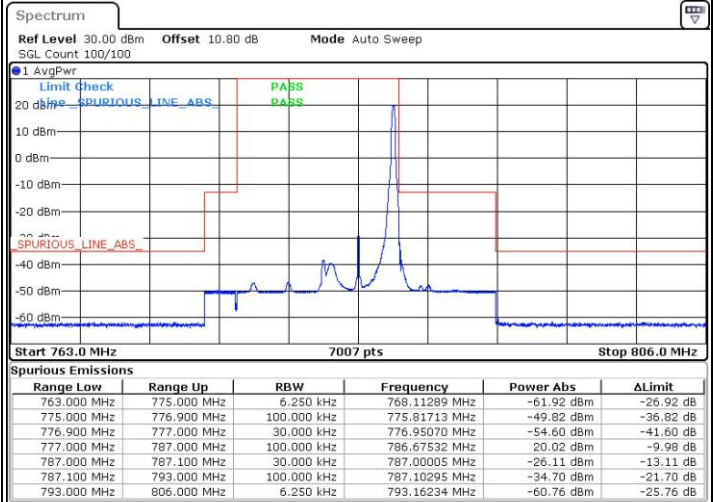


IC LTE Band 13 / 5MHz / QPSK

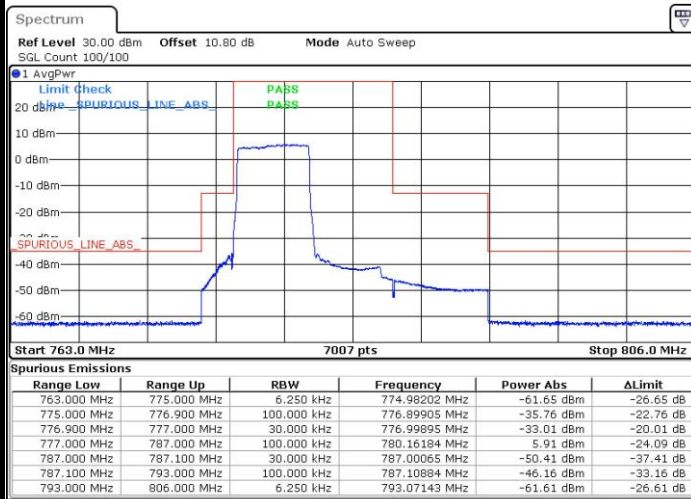
Lowest Band Edge / 1 RB



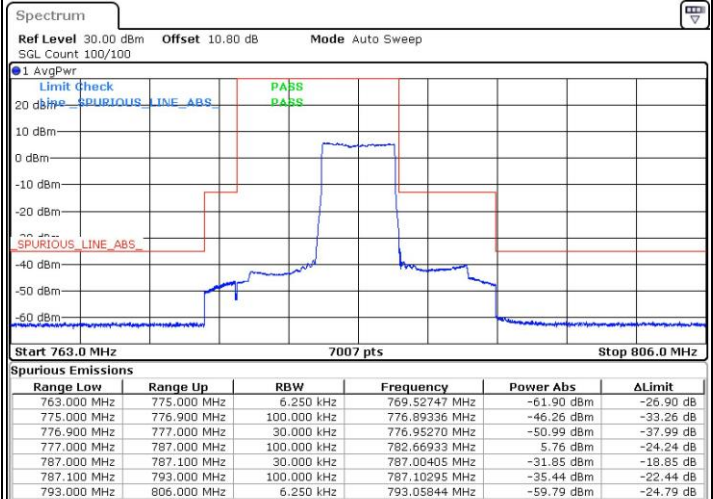
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



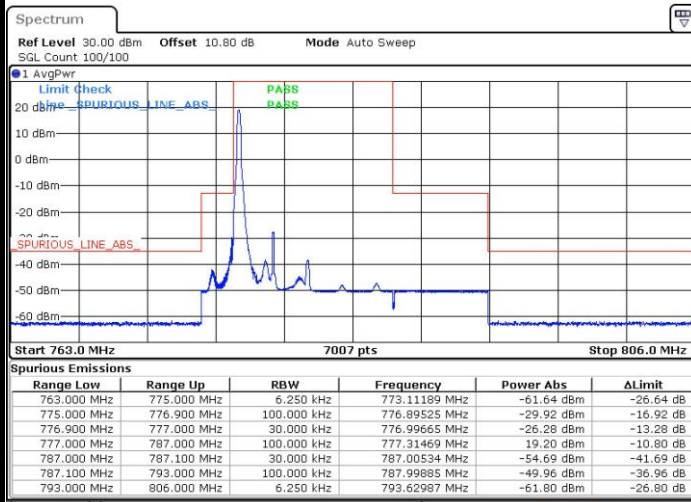
Highest Band Edge / Full RB



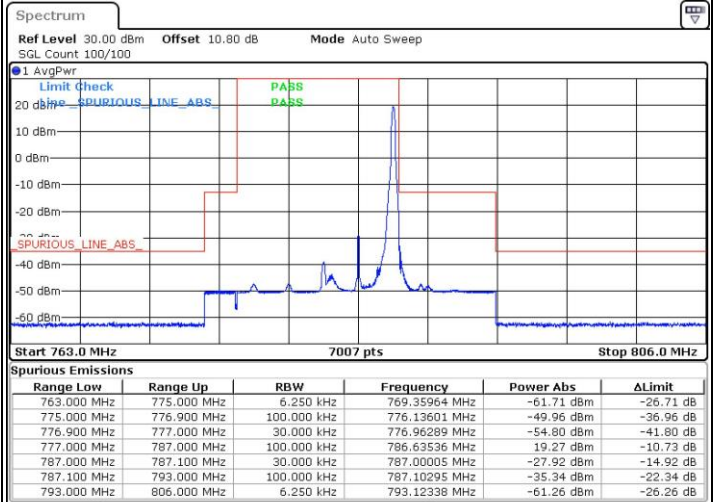


IC LTE Band 13 / 5MHz / 16QAM

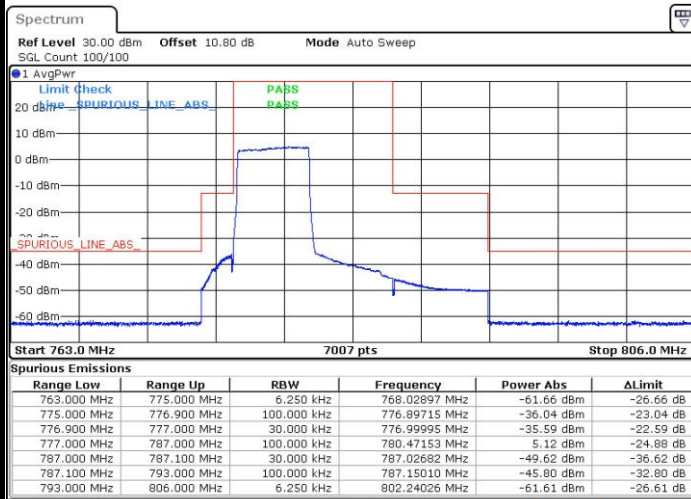
Lowest Band Edge / 1 RB



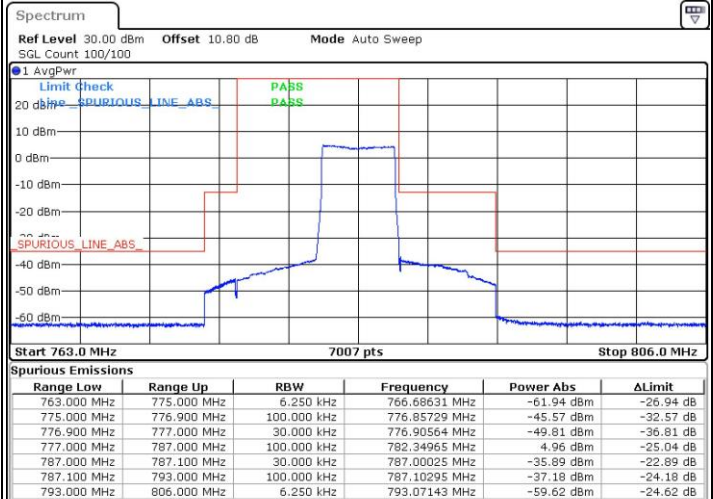
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



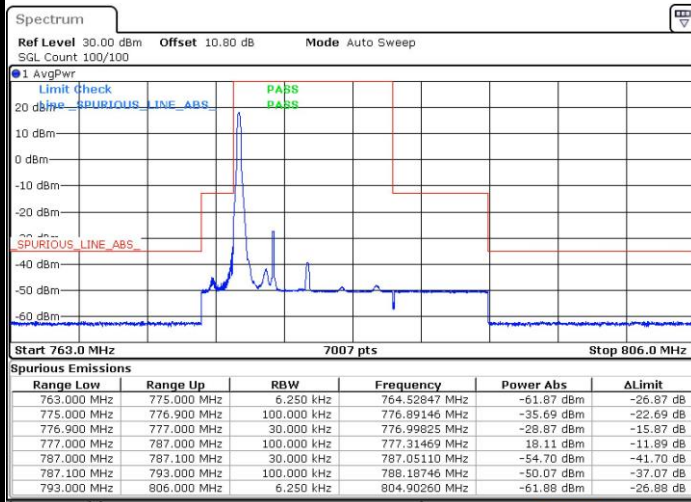
Highest Band Edge / Full RB



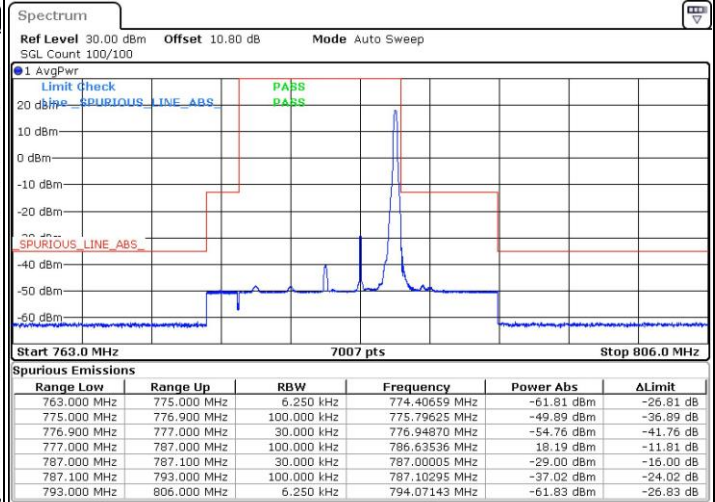


IC LTE Band 13 / 5MHz / 64QAM

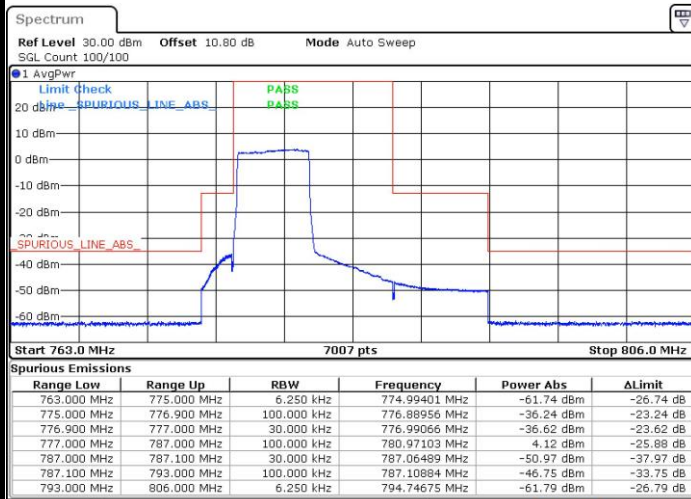
Lowest Band Edge / 1 RB



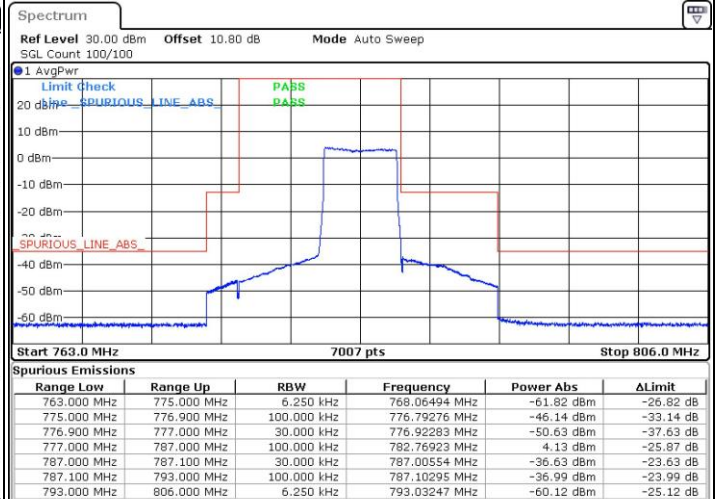
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



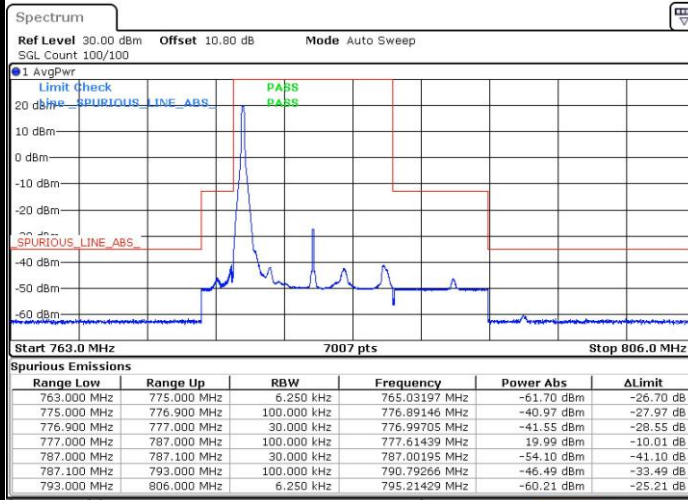
Highest Band Edge / Full RB





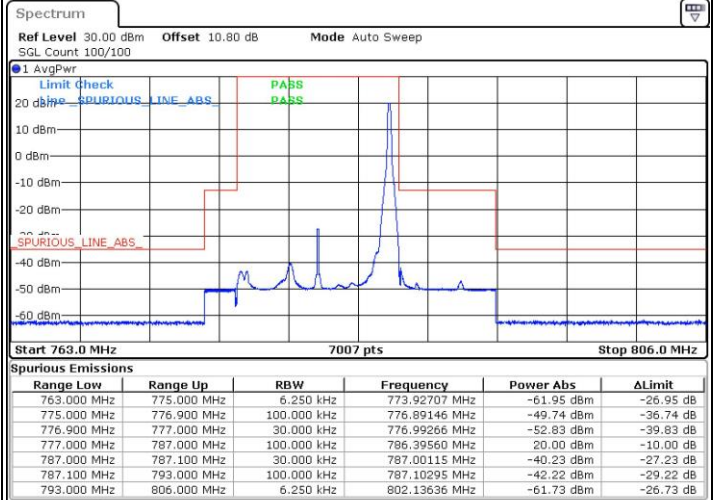
IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



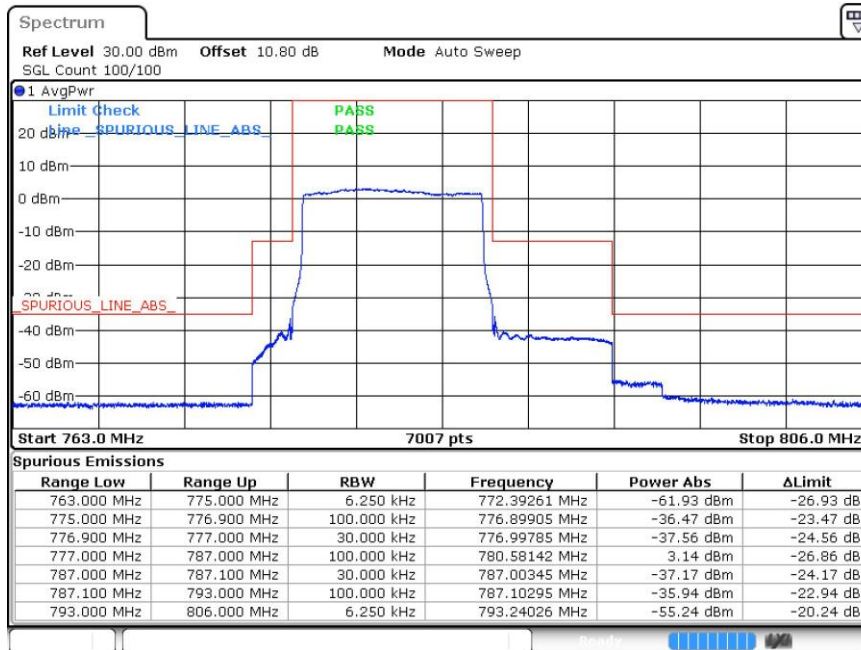
Date: 23.MAR.2019 15:50:30

Highest Band Edge / 1 RB



Date: 23.MAR.2019 15:52:11

Band Edge / Full RB

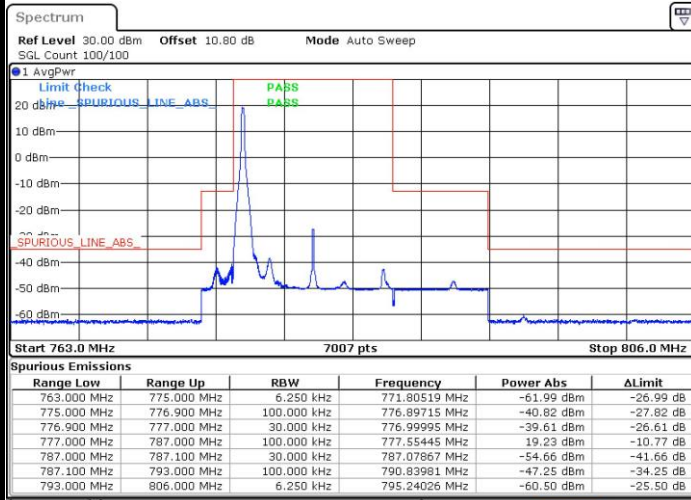


Date: 23.MAR.2019 15:45:27



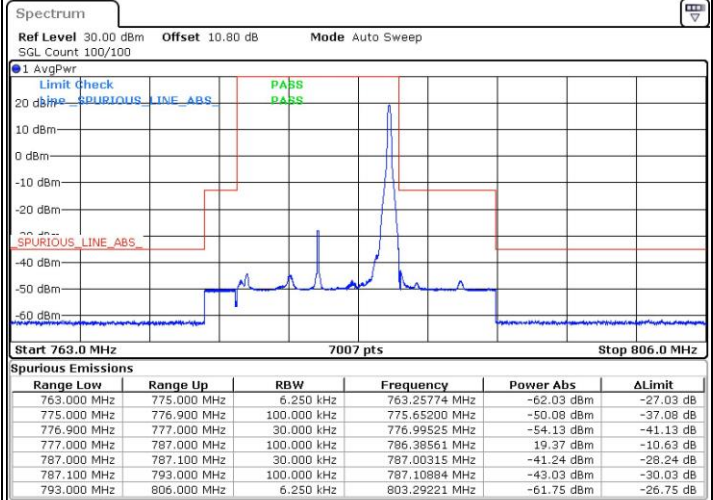
IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



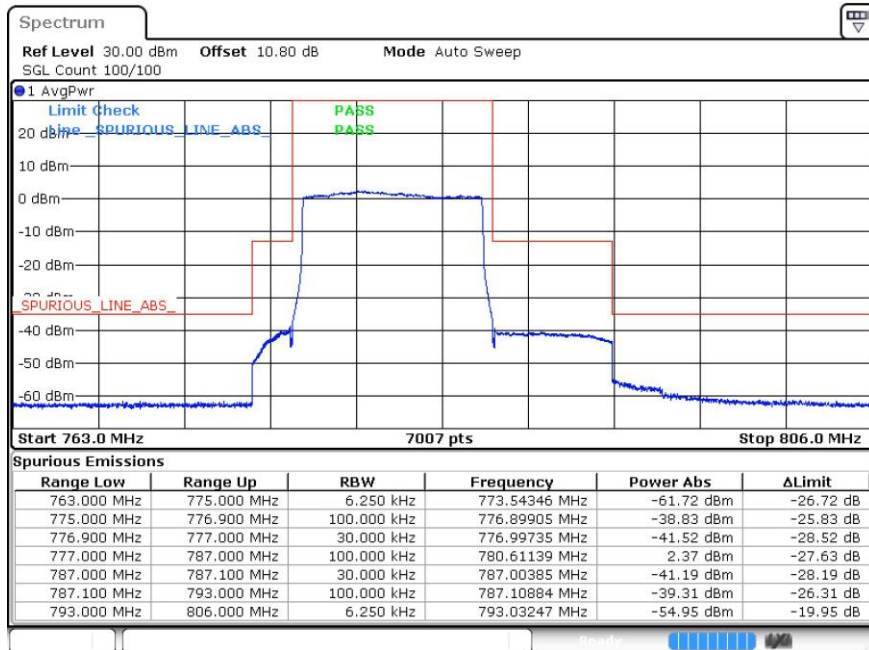
Date: 23.MAR.2019 15:48:49

Highest Band Edge / 1 RB



Date: 23.MAR.2019 15:53:52

Band Edge / Full RB

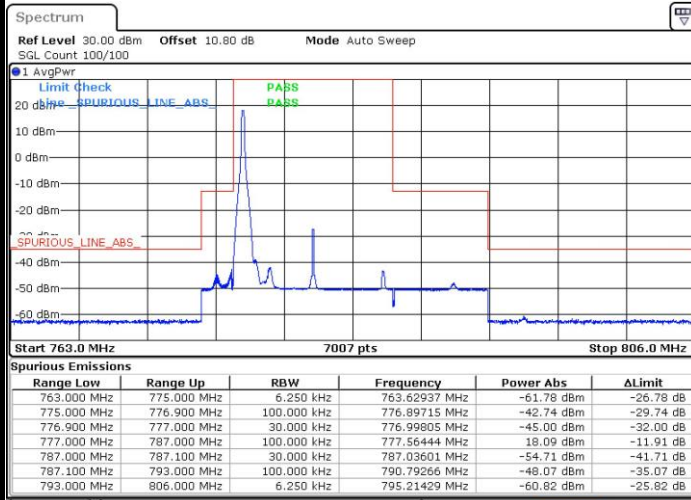


Date: 23.MAR.2019 15:47:08



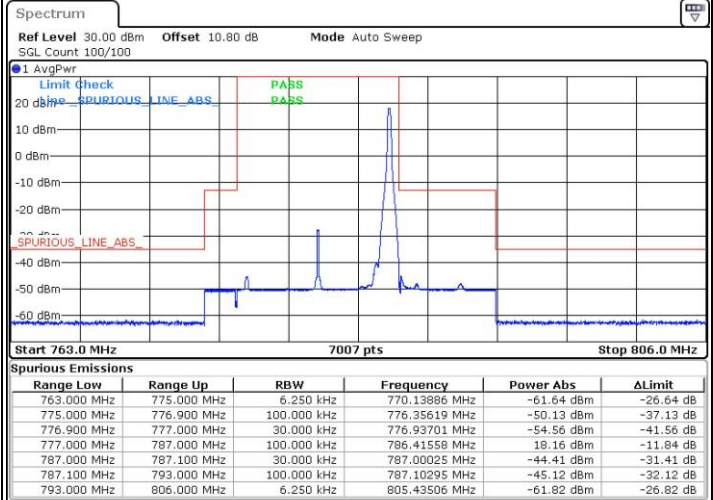
IC LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



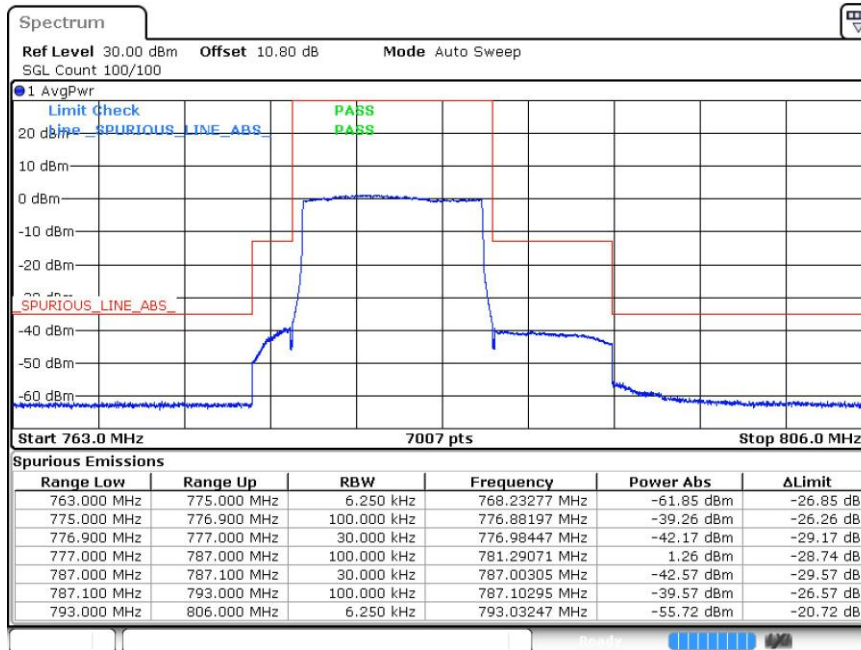
Date: 23.MAR.2019 15:42:05

Highest Band Edge / 1 RB



Date: 23.MAR.2019 15:43:46

Band Edge / Full RB



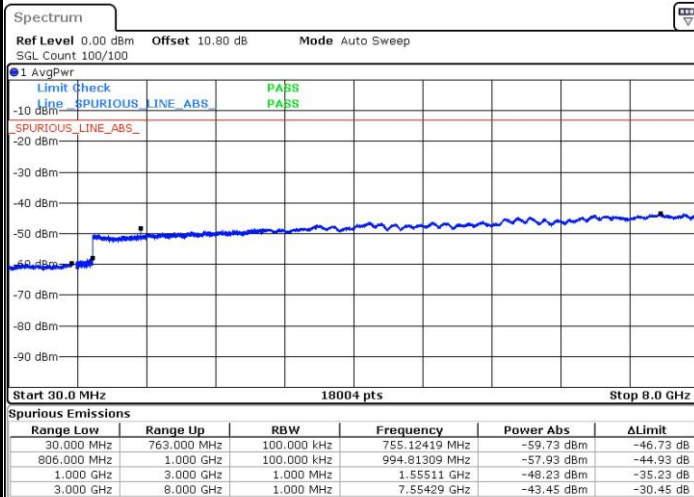
Date: 23.MAR.2019 15:40:25



Conducted Spurious Emission

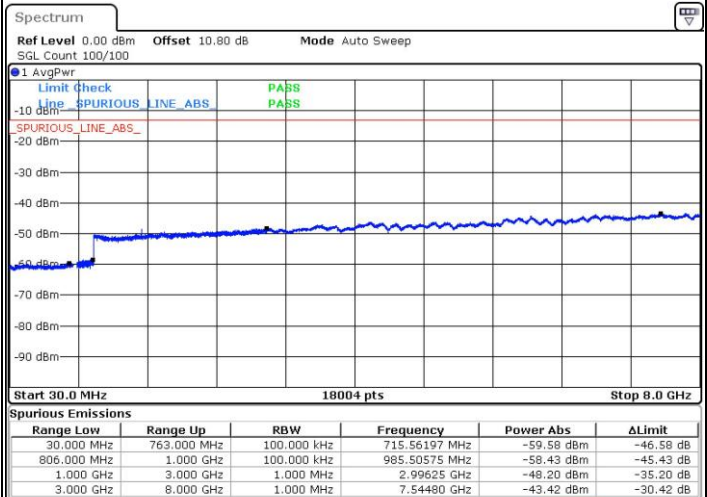
LTE Band 13 / 5MHz

Lowest Channel / QPSK



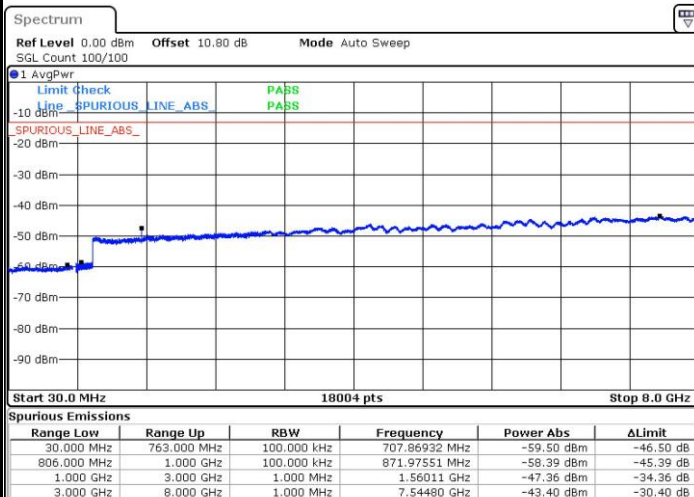
Date: 23 MAR 2019 14:22:10

Lowest Channel / 16QAM



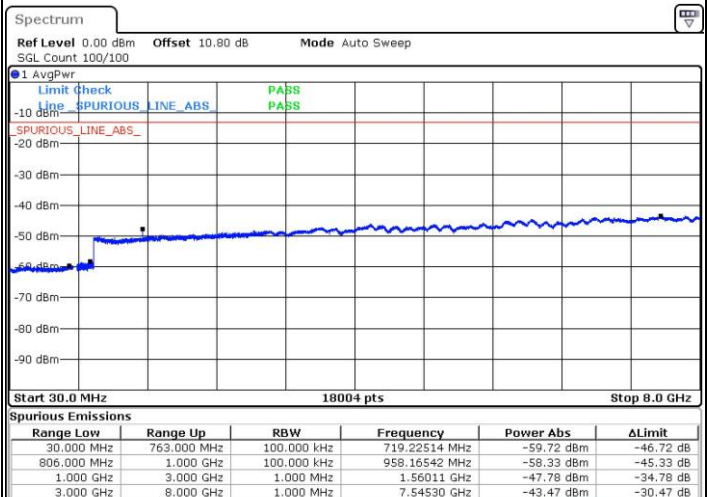
Date: 23 MAR 2019 14:23:01

Middle Channel / QPSK



Date: 23 MAR 2019 14:24:41

Middle Channel / 16QAM

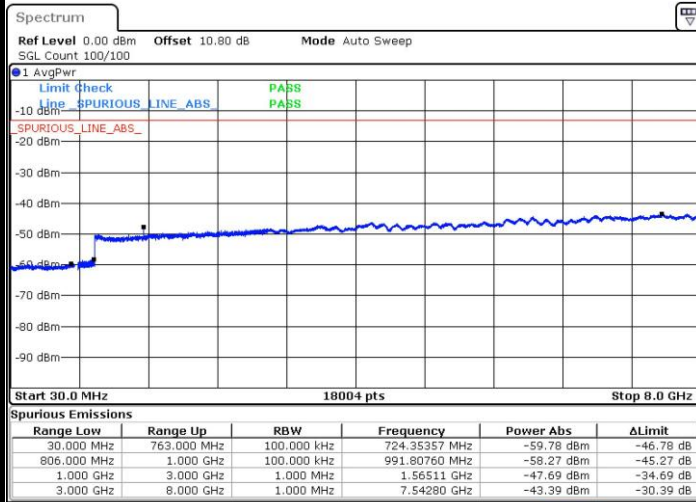


Date: 23 MAR 2019 14:23:51



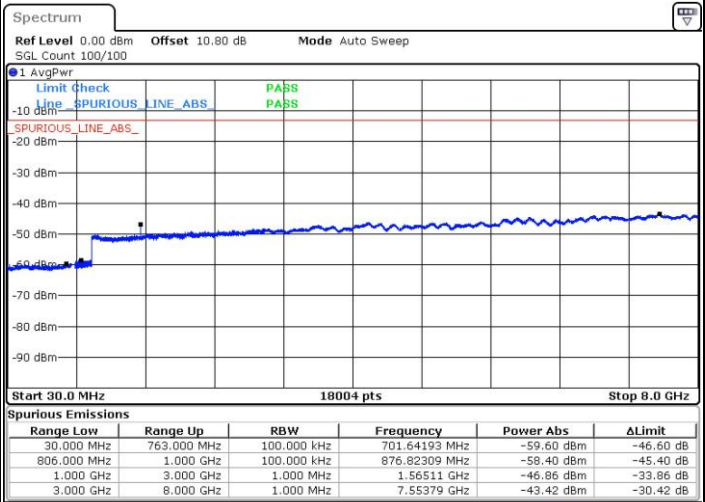
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 23 MAR 2019 14:33:54

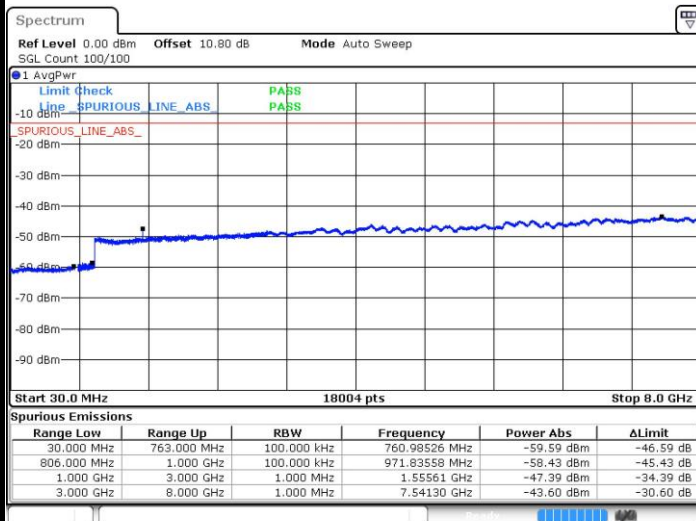
Highest Channel / 16QAM



Date: 23 MAR 2019 14:34:45

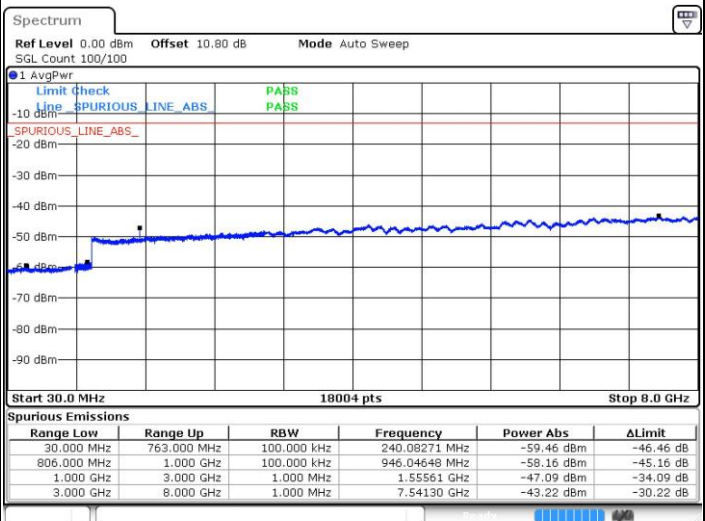
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 23 MAR 2019 14:57:48

Middle Channel / 16QAM

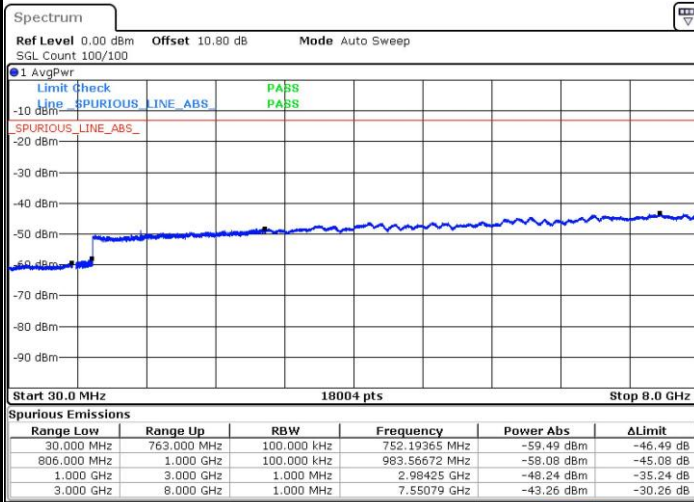


Date: 23 MAR 2019 14:56:58



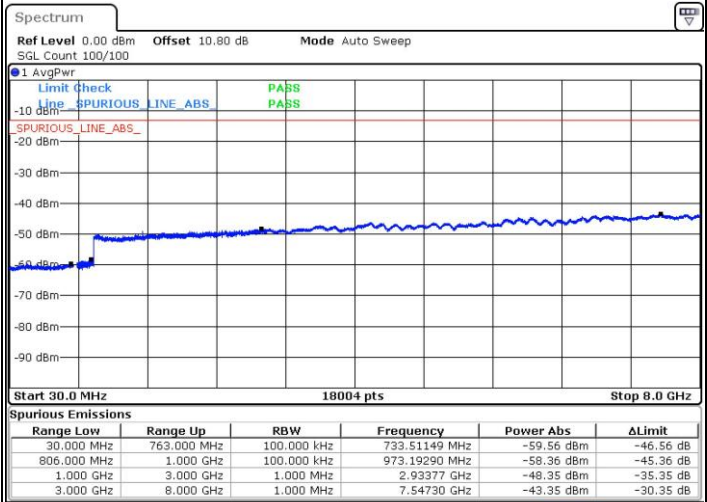
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



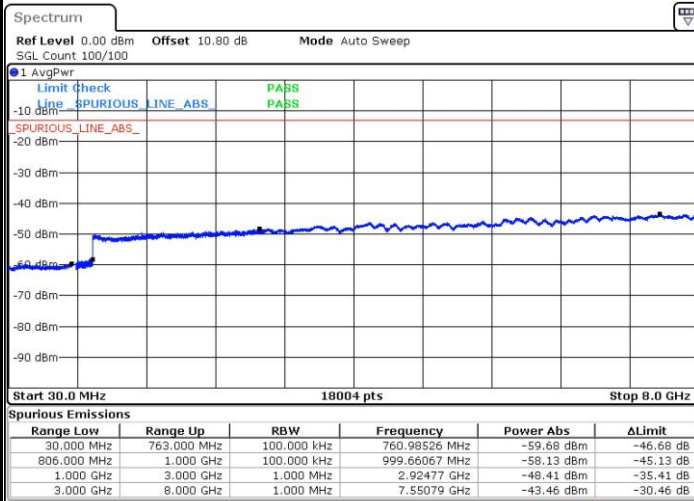
Date: 23 MAR 2019 14:39:23

Middle Channel / 64QAM



Date: 23 MAR 2019 14:40:14

Highest Channel / 64QAM

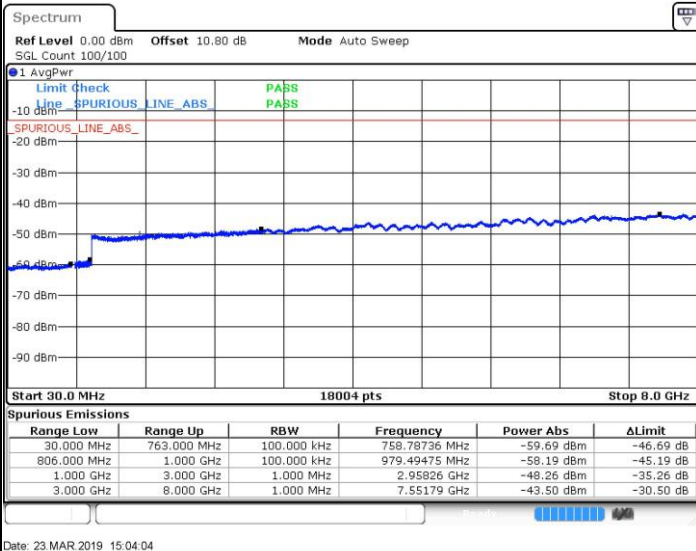


Date: 23 MAR 2019 14:45:15



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	0.0083	PASS
40	Normal Voltage	0.0083	
30	Normal Voltage	0.0093	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0102	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0096	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0093	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 17

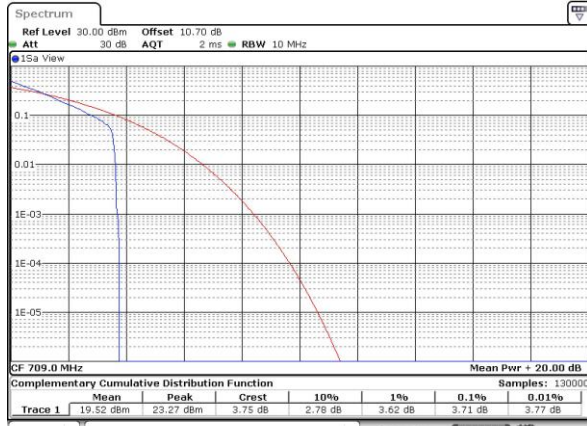
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.71	4.84	5.62	6.12	PASS
Middle CH	3.71	4.87	5.33	6.09	
Highest CH	3.71	4.78	5.3	6.12	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.84	6.75	-	-	PASS
Middle CH	6.26	6.58	-	-	
Highest CH	6.81	6.81	-	-	

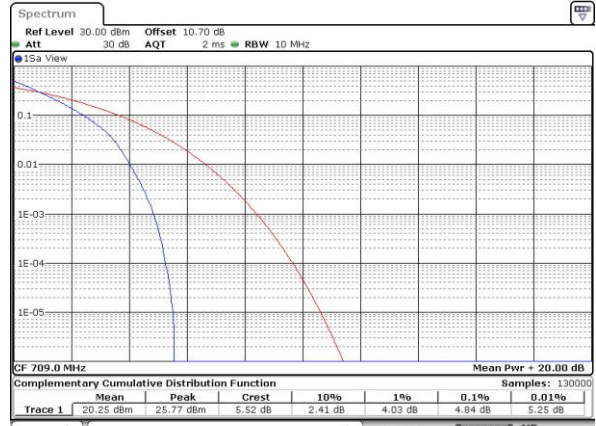


LTE Band 17 / 10MHz / QPSK

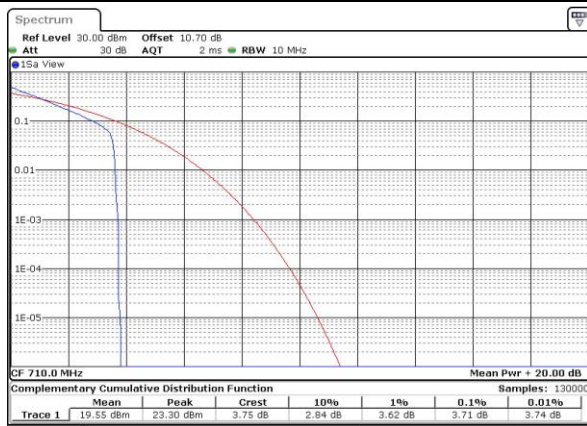
Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB

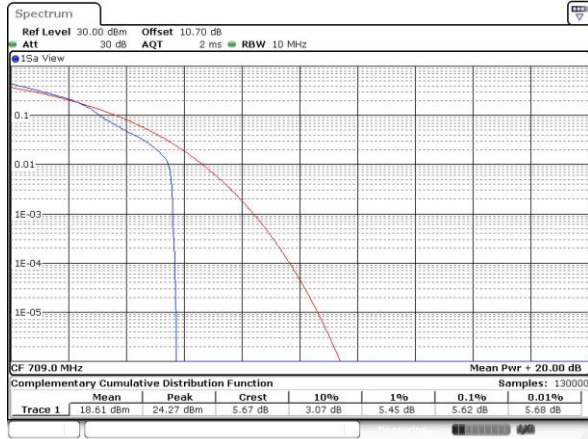


Highest Channel / Full RB



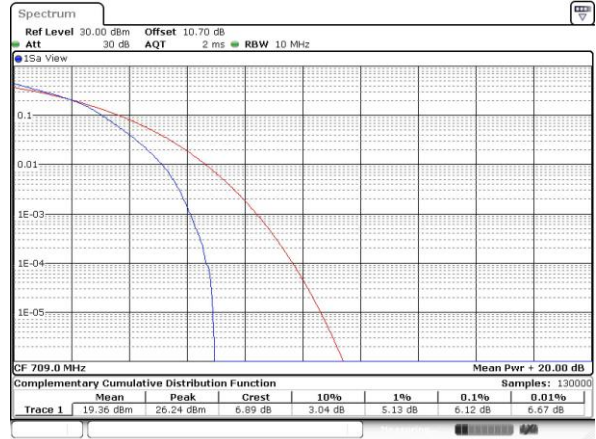
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



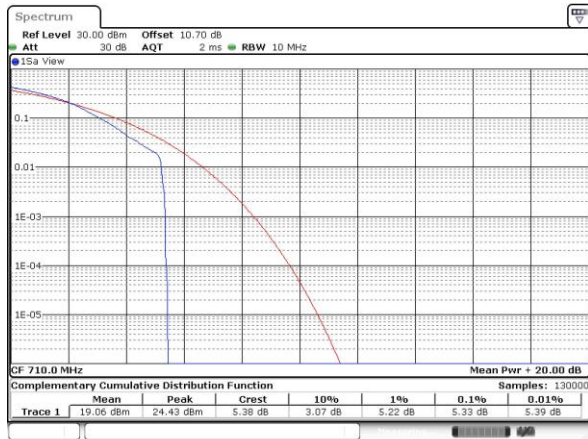
Date: 23 MAR 2019 18:53:26

Lowest Channel / Full RB



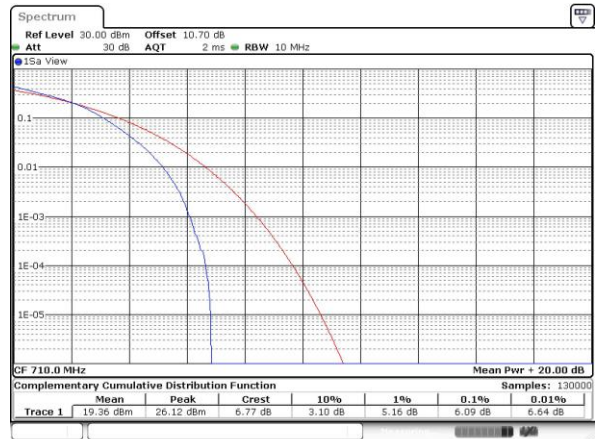
Date: 23 MAR 2019 18:53:37

Middle Channel / 1RB



Date: 23 MAR 2019 18:53:47

Middle Channel / Full RB



Date: 23 MAR 2019 18:53:57

Highest Channel / 1RB



Date: 23 MAR 2019 18:54:08

Highest Channel / Full RB

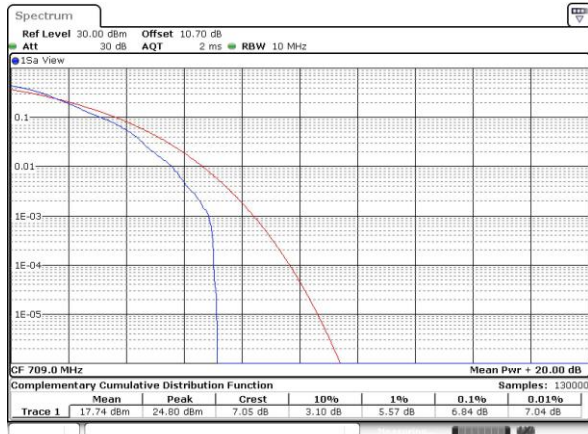


Date: 23 MAR 2019 18:54:19

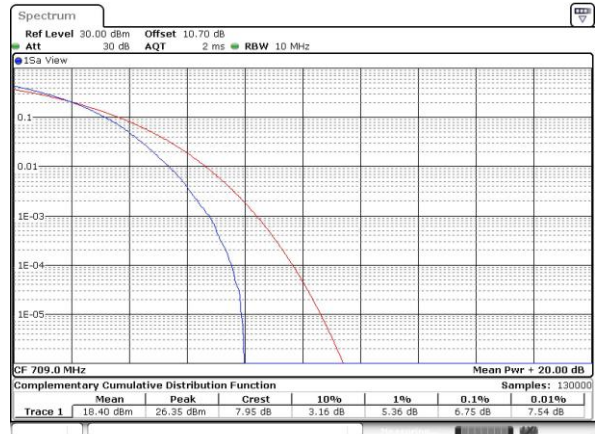


LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



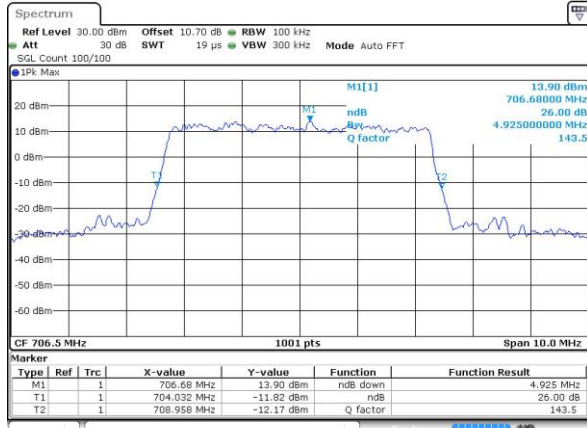
**26dB Bandwidth**

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	4.92	9.87	9.73	-	-	-	-
Middle CH	-	-	-	-	4.99	4.86	9.77	9.85	-	-	-	-
Highest CH	-	-	-	-	4.96	4.87	9.71	9.73	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.91	-	9.71	-	-	-	-	-
Middle CH	-	-	-	-	4.89	-	9.79	-	-	-	-	-
Highest CH	-	-	-	-	4.86	-	9.87	-	-	-	-	-



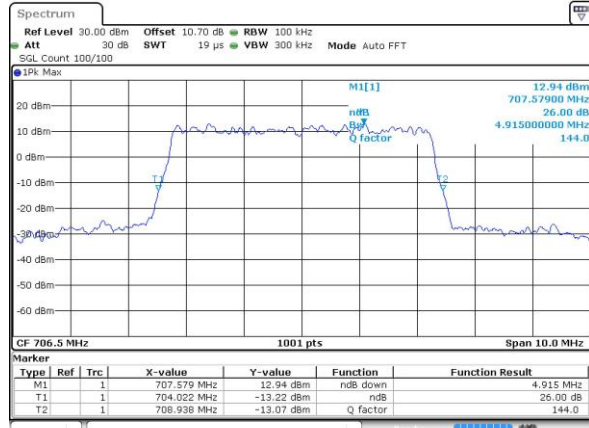
LTE Band 17

Lowest Channel / 5MHz / QPSK



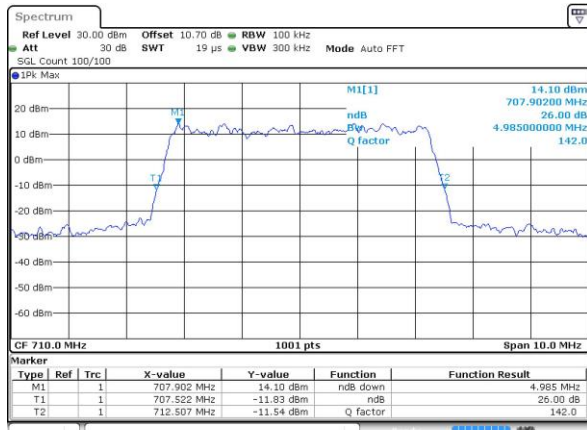
Date: 23 MAR 2019 17:07:04

Lowest Channel / 5MHz / 16QAM



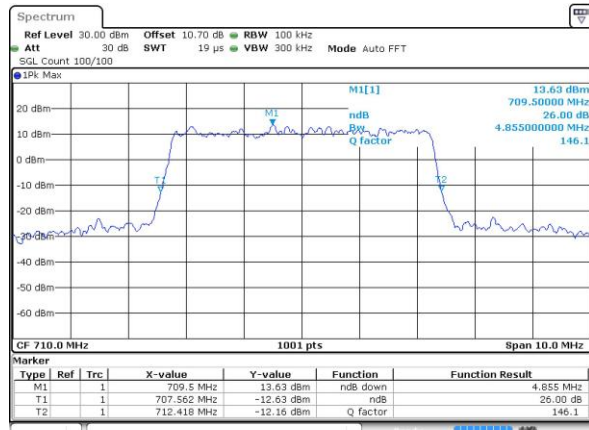
Date: 23 MAR 2019 17:07:16

Middle Channel / 5MHz / QPSK



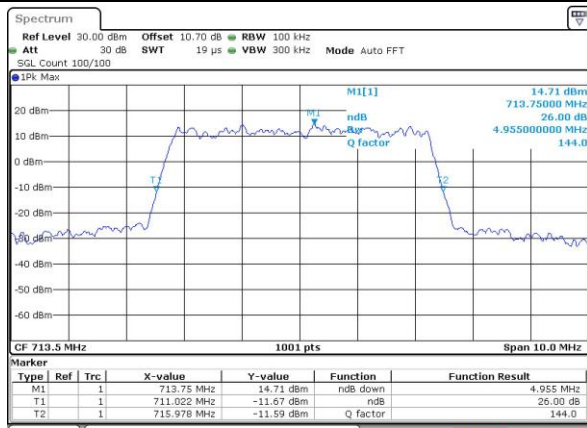
Date: 23 MAR 2019 17:14:19

Middle Channel / 5MHz / 16QAM



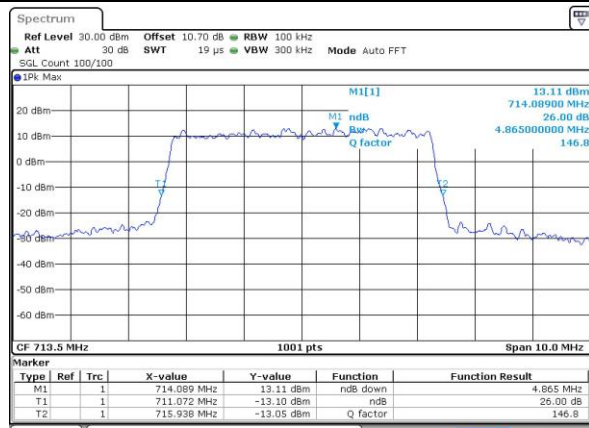
Date: 23 MAR 2019 17:14:31

Highest Channel / 5MHz / QPSK



Date: 23 MAR 2019 17:16:49

Highest Channel / 5MHz / 16QAM

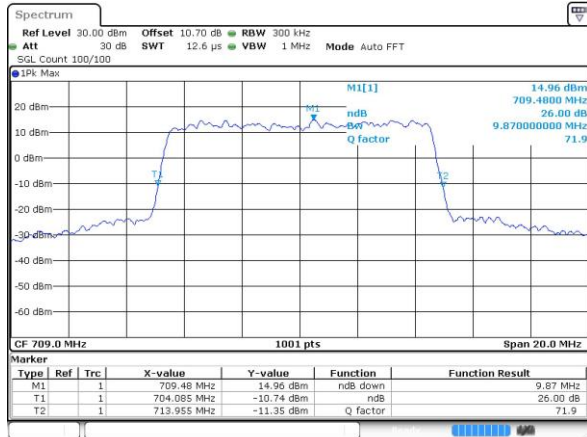


Date: 23 MAR 2019 17:17:01

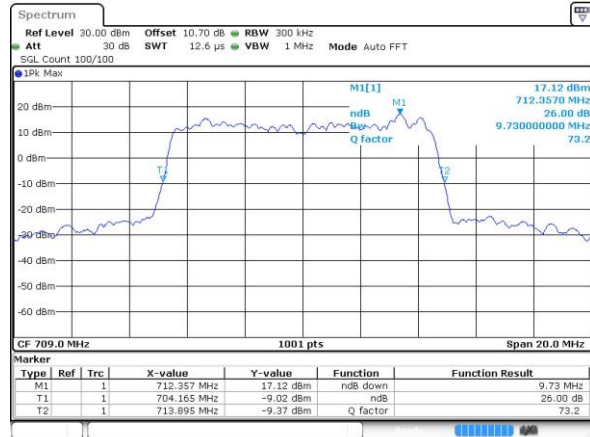


LTE Band 17

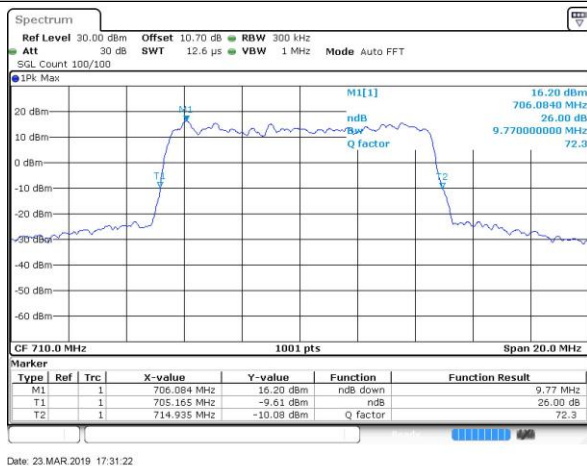
Lowest Channel / 10MHz / QPSK



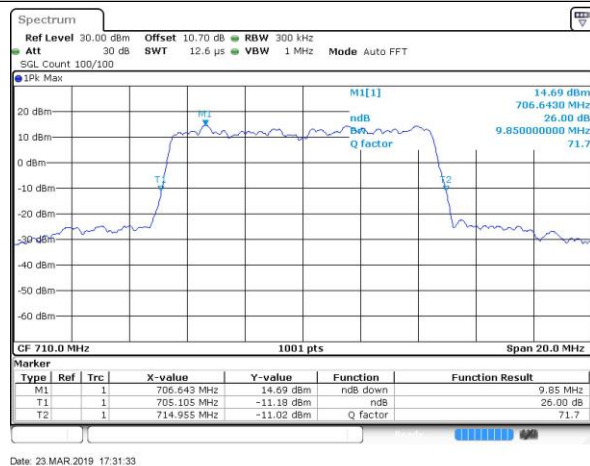
Lowest Channel / 10MHz / 16QAM



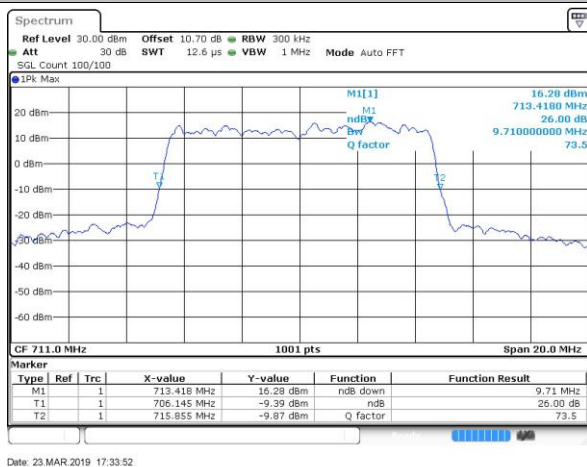
Middle Channel / 10MHz / QPSK



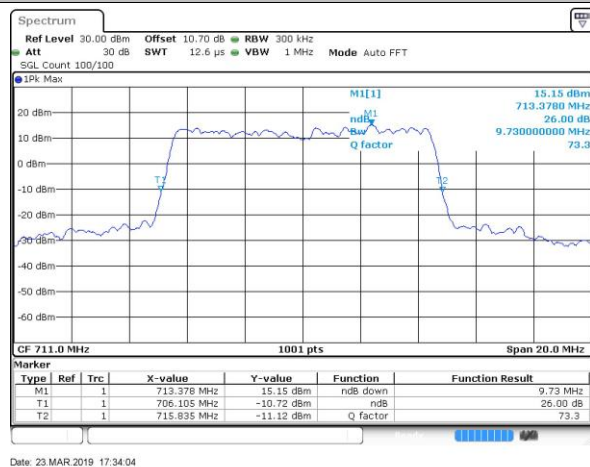
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



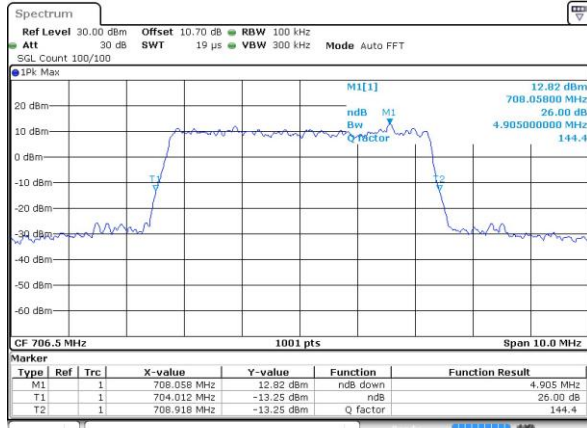
Highest Channel / 10MHz / 16QAM





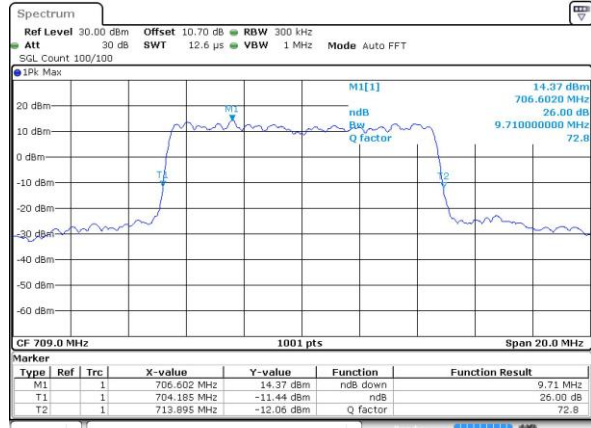
LTE Band 17

Lowest Channel / 5MHz / 64QAM



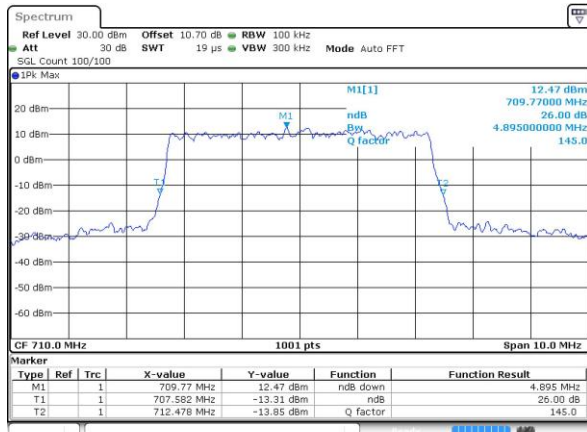
Date: 23 MAR 2019 17:40:56

Lowest Channel / 10MHz / 64QAM



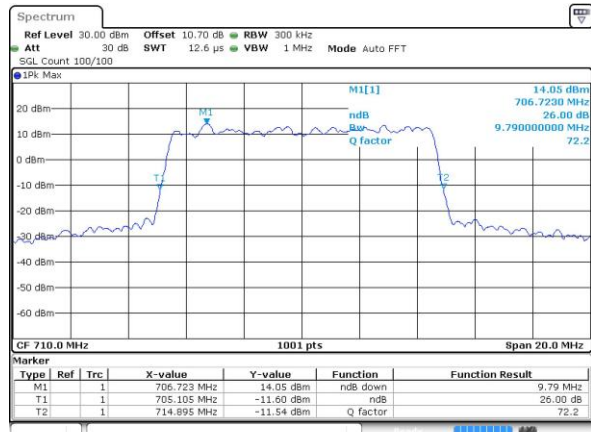
Date: 23 MAR 2019 17:49:27

Middle Channel / 5MHz / 64QAM



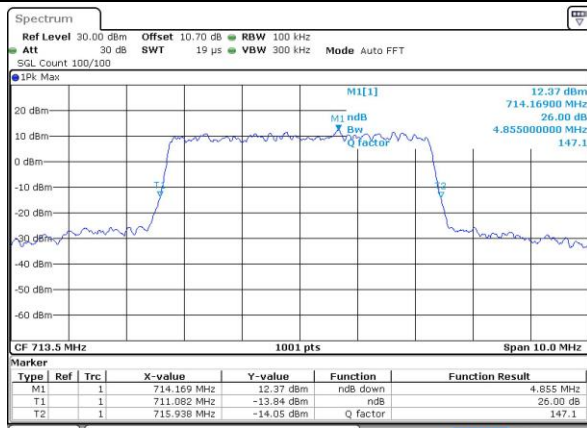
Date: 23 MAR 2019 17:44:33

Middle Channel / 10MHz / 64QAM



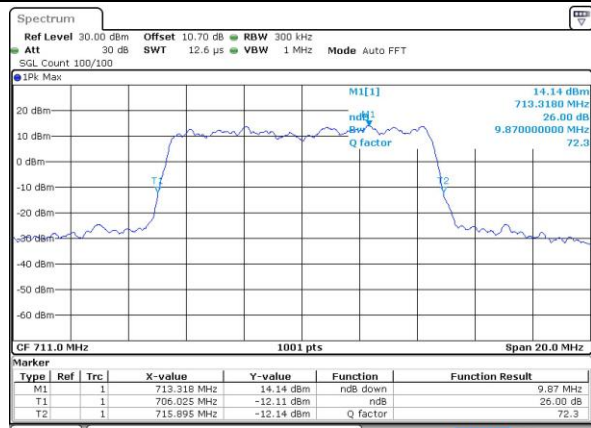
Date: 23 MAR 2019 17:53:04

Highest Channel / 5MHz / 64QAM



Date: 23 MAR 2019 17:45:48

Highest Channel / 10MHz / 64QAM



Date: 23 MAR 2019 17:54:19

**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	4.49	9.03	9.03	-	-	-	-
Middle CH	-	-	-	-	4.51	4.49	9.11	9.07	-	-	-	-
Highest CH	-	-	-	-	4.51	4.51	9.07	9.05	-	-	-	-
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	-	9.01	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	9.07	-	-	-	-	-