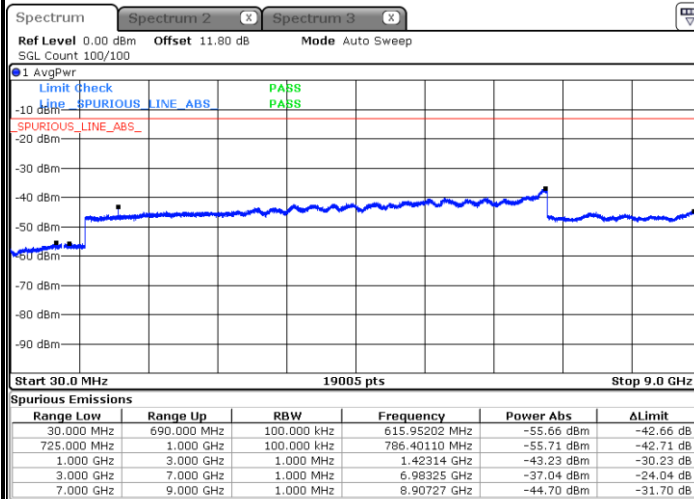




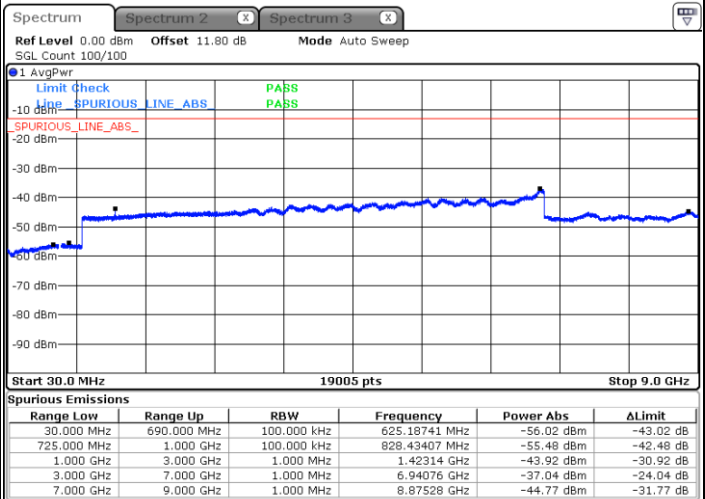
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 10.JAN.2018 22:23:02

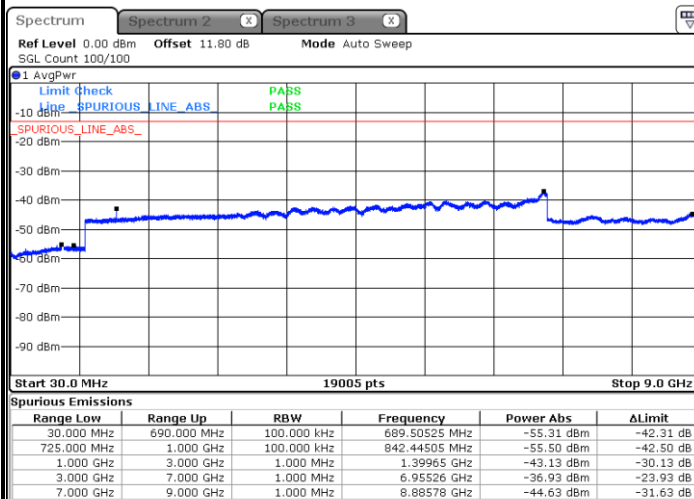
Highest Channel / 16QAM



Date: 10.JAN.2018 22:22:07

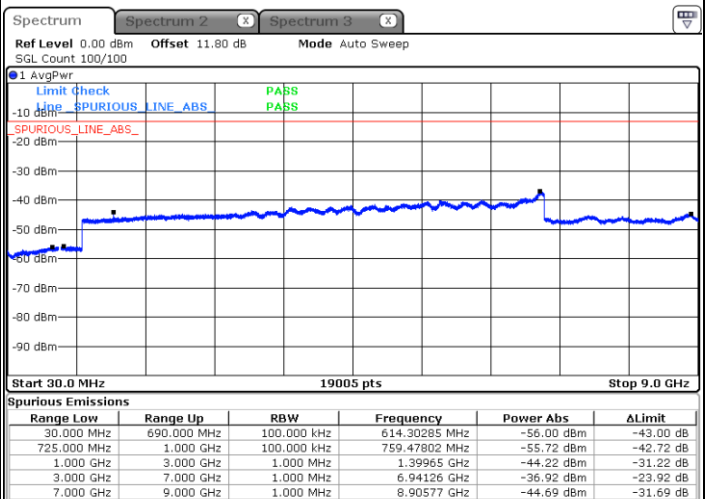
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 10.JAN.2018 22:29:19

Lowest Channel / 16QAM

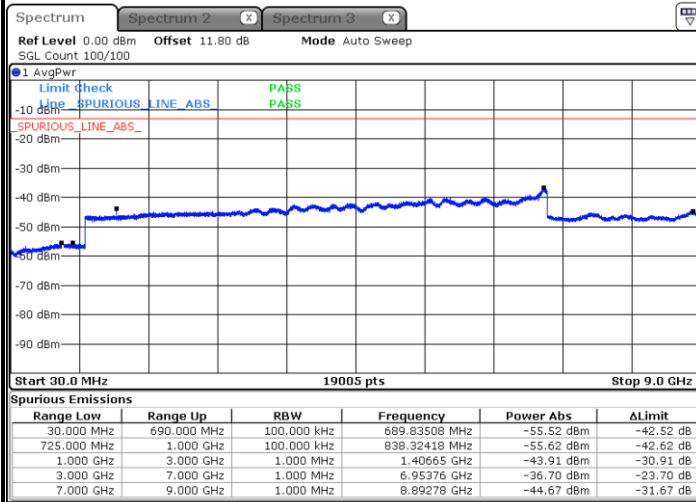


Date: 10.JAN.2018 22:30:15



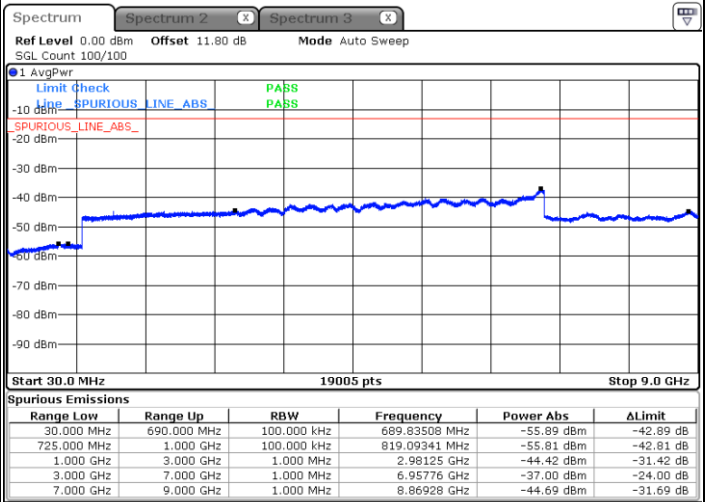
LTE Band 12 / 10MHz

Middle Channel / QPSK



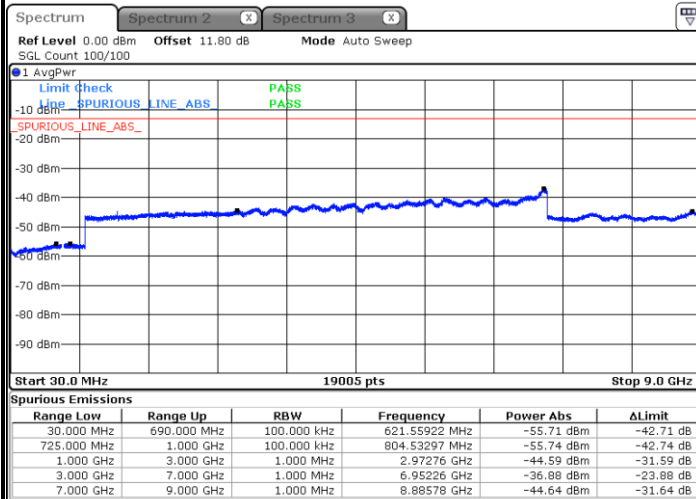
Date: 10.JAN.2018 22:32:52

Middle Channel / 16QAM



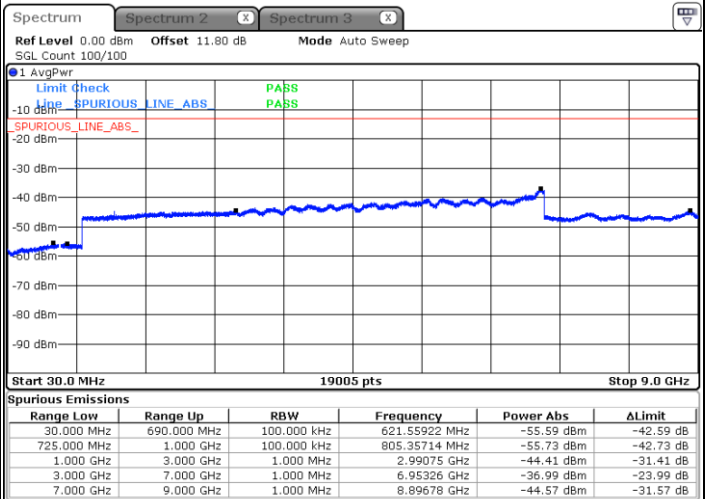
Date: 10.JAN.2018 22:31:56

Highest Channel / QPSK



Date: 10.JAN.2018 22:39:09

Highest Channel / 16QAM

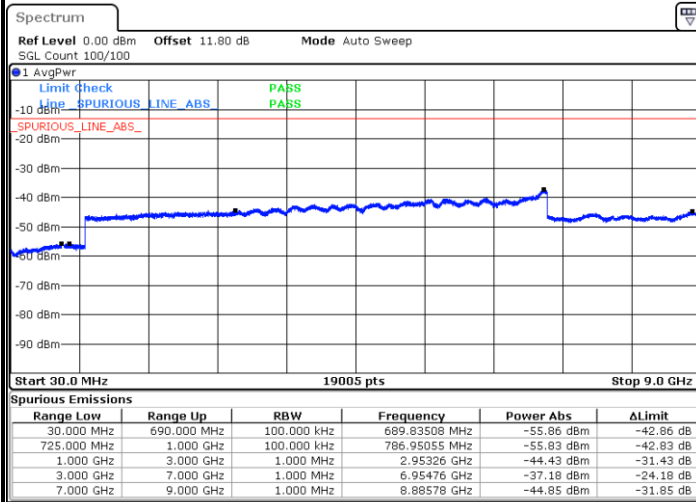


Date: 10.JAN.2018 22:40:05



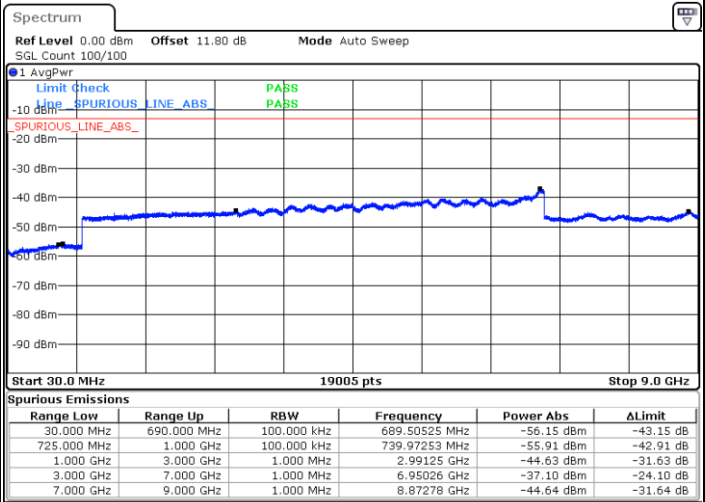
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



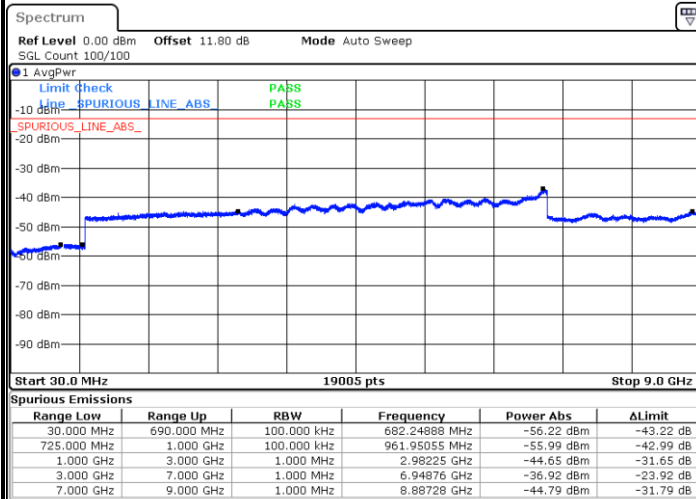
Date: 2.FEB.2018 01:03:16

Middle Channel / 64QAM



Date: 2.FEB.2018 01:04:37

Highest Channel / 64QAM

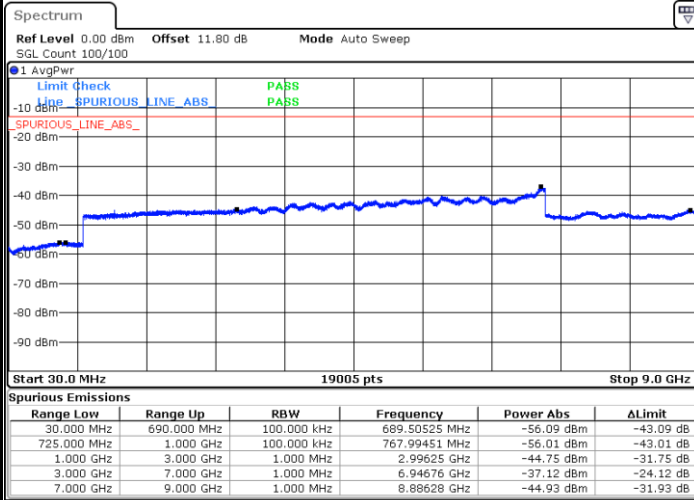


Date: 2.FEB.2018 01:08:15



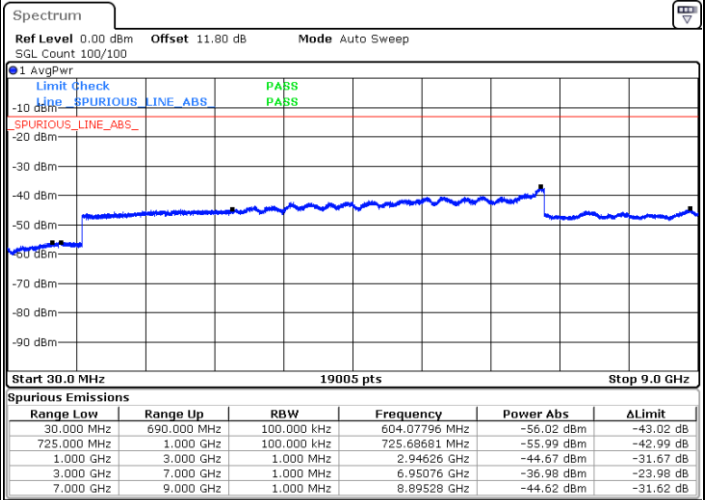
LTE Band 12 / 3MHz

Lowest Channel / 64QAM



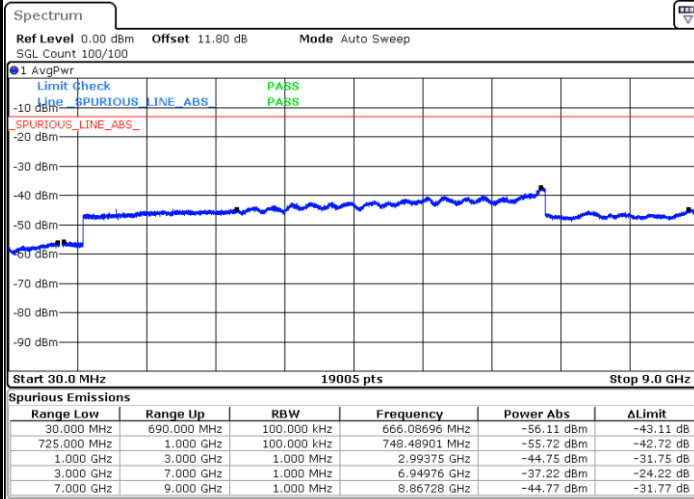
Date: 2.FEB.2018 00:37:05

Middle Channel / 64QAM



Date: 2.FEB.2018 00:38:25

Highest Channel / 64QAM

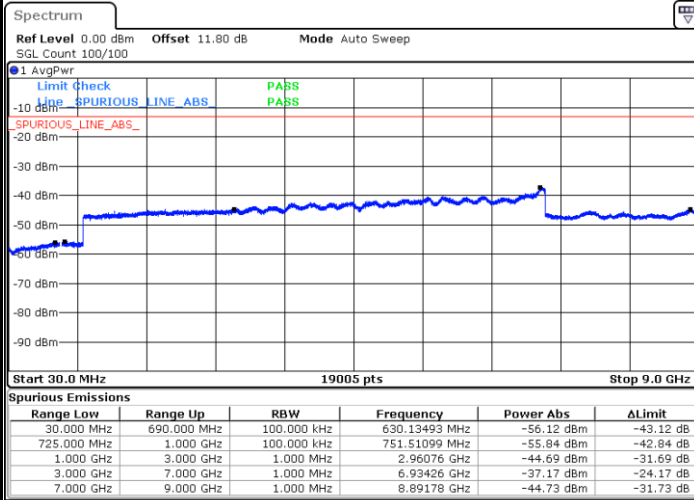


Date: 2.FEB.2018 00:42:03



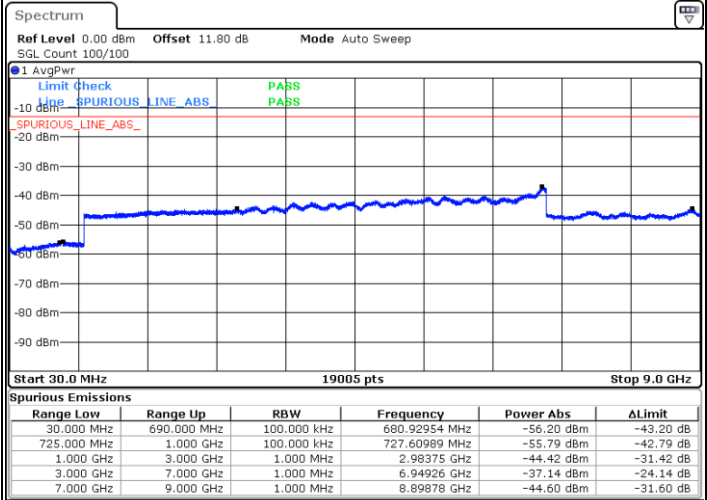
LTE Band 12 / 5MHz

Lowest Channel / 64QAM



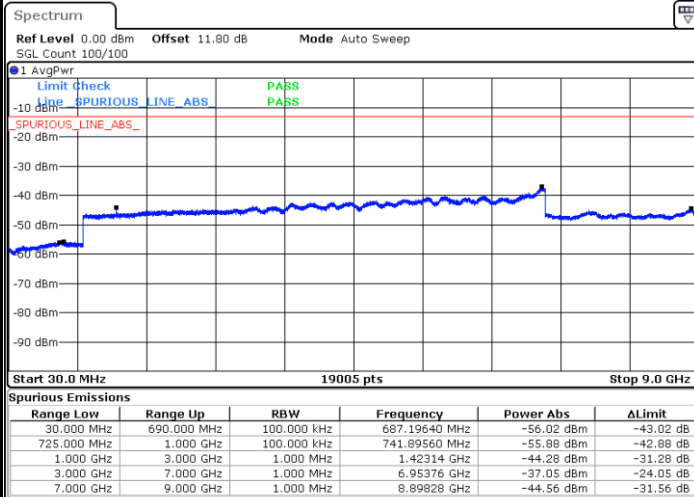
Date: 2.FEB.2018 00:45:41

Middle Channel / 64QAM



Date: 2.FEB.2018 00:47:01

Highest Channel / 64QAM

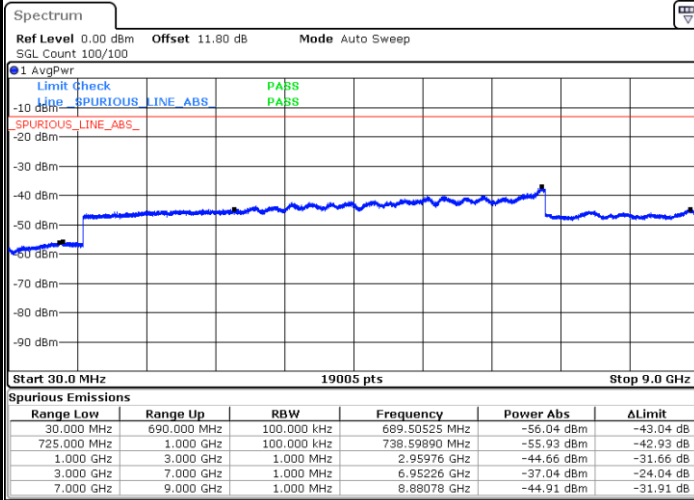


Date: 2.FEB.2018 00:50:39



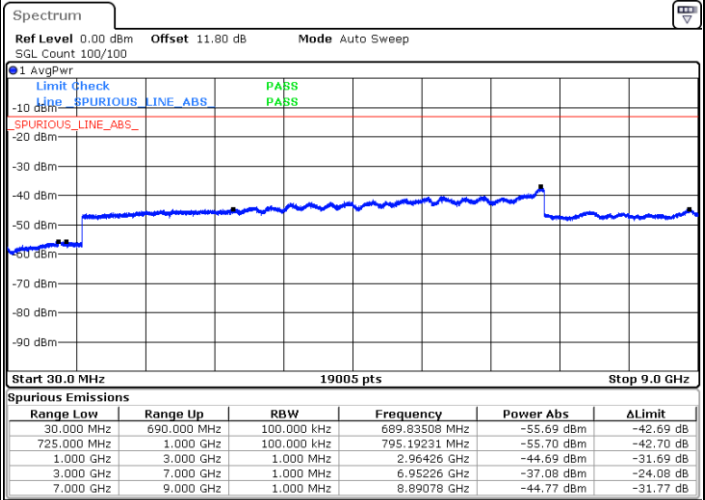
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



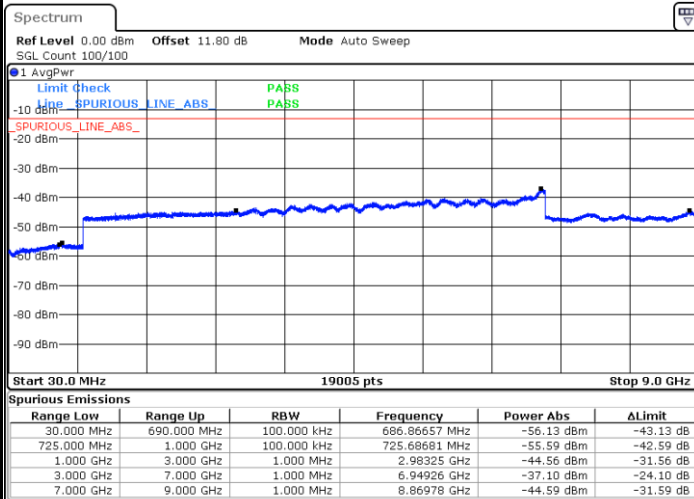
Date: 2.FEB.2018 00:54:41

Middle Channel / 64QAM



Date: 2.FEB.2018 00:56:01

Highest Channel / 64QAM



Date: 2.FEB.2018 00:59:39

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	0.0003	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0033	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0069	
0	Normal Voltage	0.0109	
-10	Normal Voltage	0.0092	
-20	Normal Voltage	0.0075	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0049	

Note:

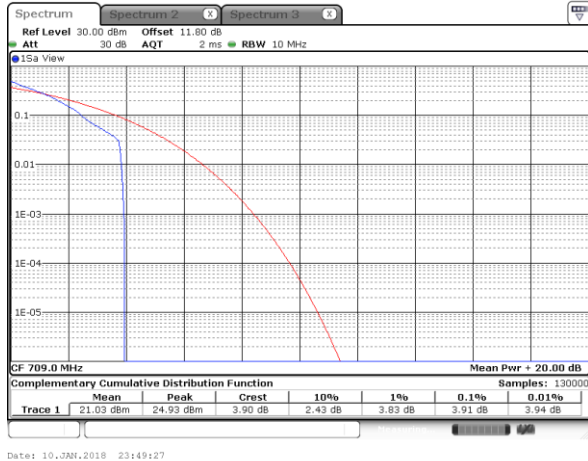
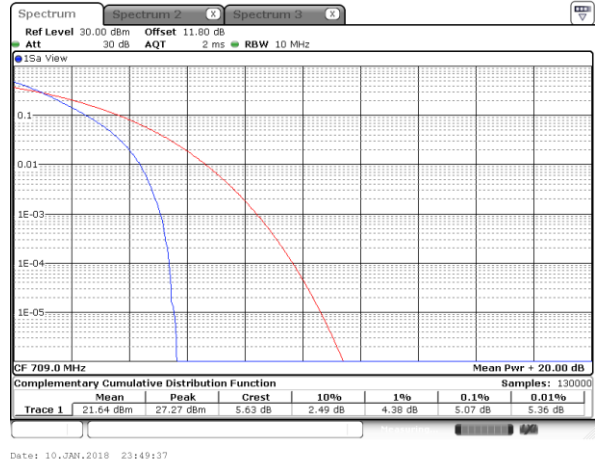
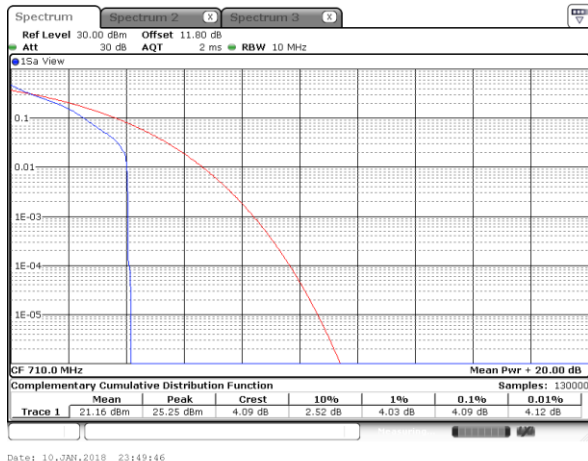
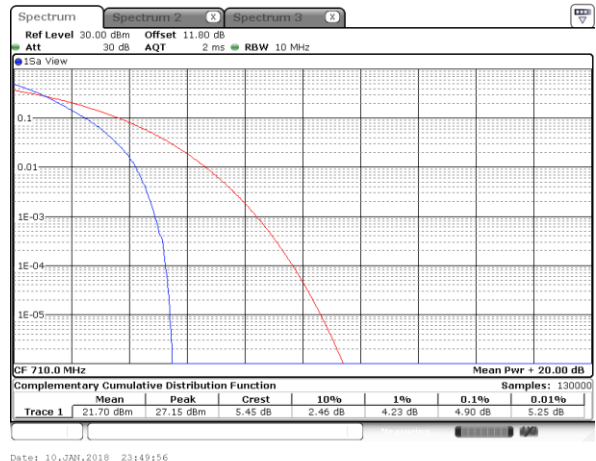
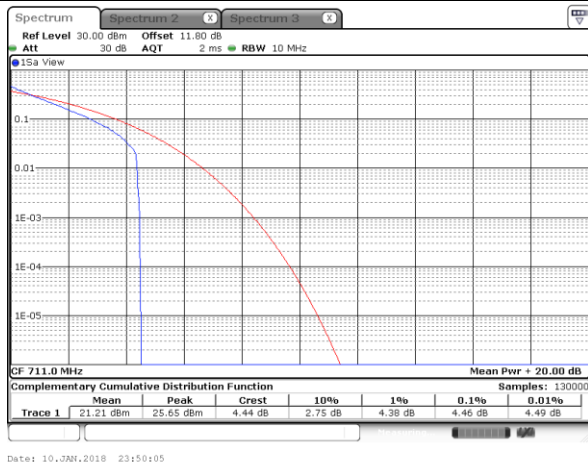
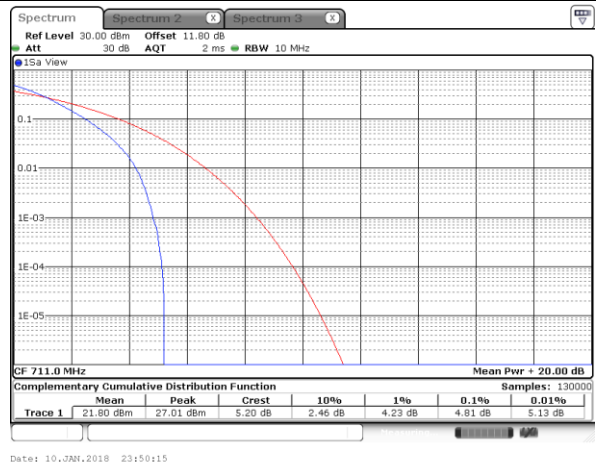
1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

Peak-to-Average Ratio

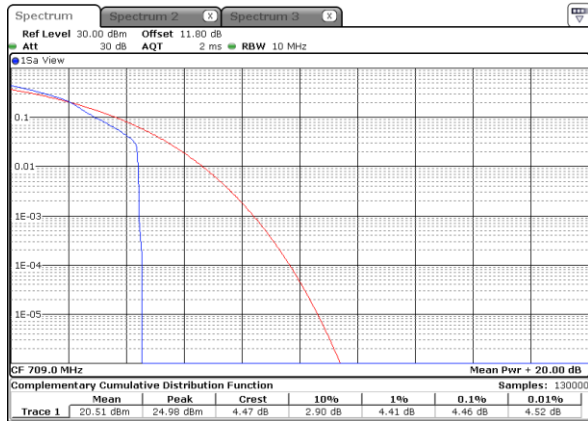
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.91	5.07	4.46	6	PASS
Middle CH	4.09	4.9	5.04	6	
Highest CH	4.46	4.81	5.19	5.97	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.68	6.26	-	-	PASS
Middle CH	5.94	6.29	-	-	
Highest CH	6.12	6.35	-	-	

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


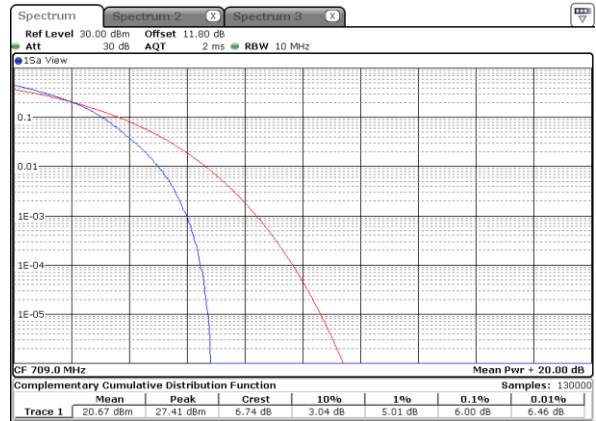


LTE Band 17 / 10MHz / 16QAM

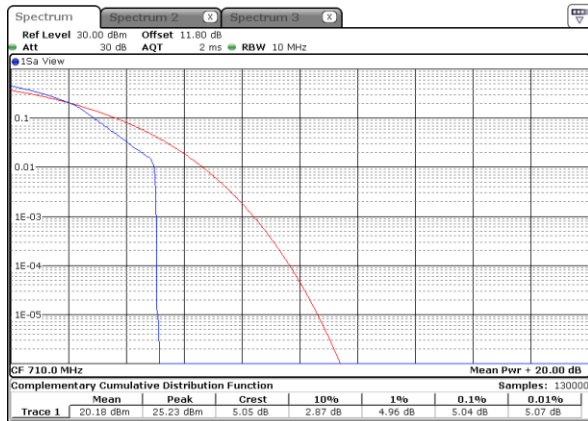
Lowest Channel / 1RB



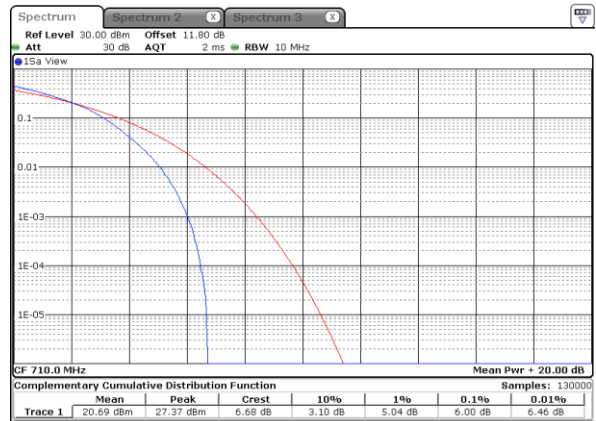
Lowest Channel / Full RB



Middle Channel / 1RB



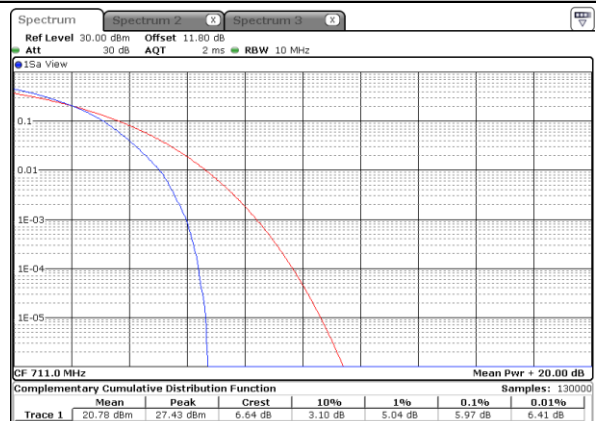
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

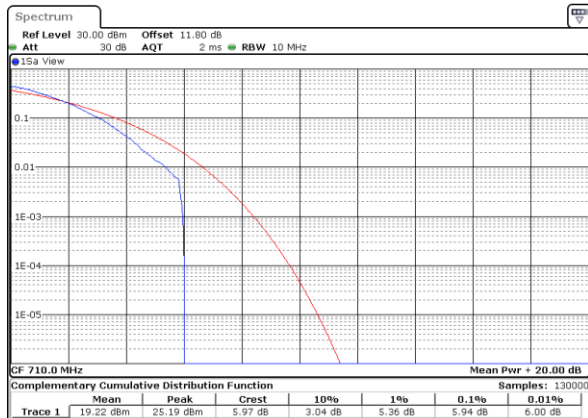


LTE Band 17 / 10MHz / 64QAM
Lowest Channel / 1RB

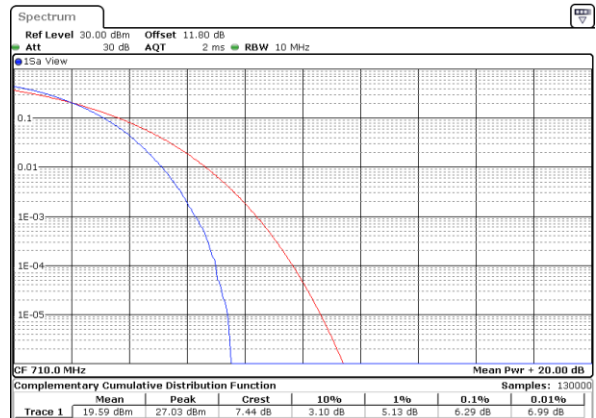

Date: 2.FEB.2018 01:31:30

Lowest Channel / Full RB

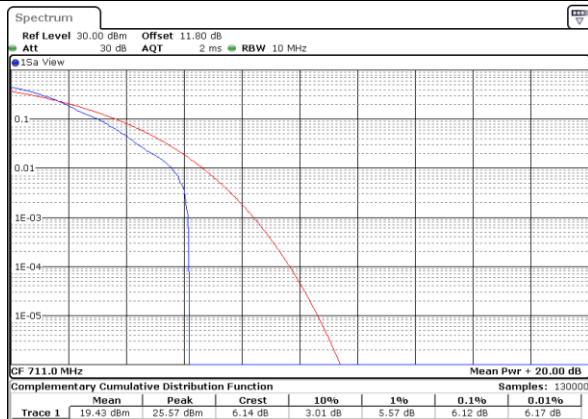

Date: 2.FEB.2018 01:31:40

Middle Channel / 1RB


Date: 2.FEB.2018 01:31:49

Middle Channel / Full RB


Date: 2.FEB.2018 01:31:58

Highest Channel / 1RB


Date: 2.FEB.2018 01:32:09

Highest Channel / Full RB


Date: 2.FEB.2018 01:32:18

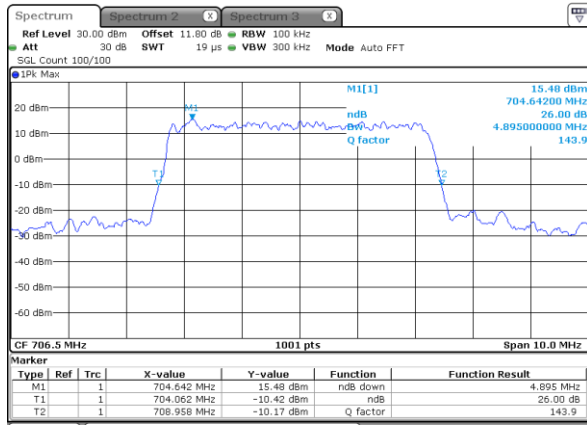
**26dB Bandwidth**

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	-	-	-	-	4.90	4.97	9.75	9.75	-	-	-	-
Middle CH	-	-	-	-	4.90	4.90	9.81	9.71	-	-	-	-
Highest CH	-	-	-	-	4.96	4.88	9.65	9.77	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.94	-	9.75	-	-	-	-	-
Middle CH	-	-	-	-	4.89	-	9.73	-	-	-	-	-
Highest CH	-	-	-	-	4.91	-	9.71	-	-	-	-	-



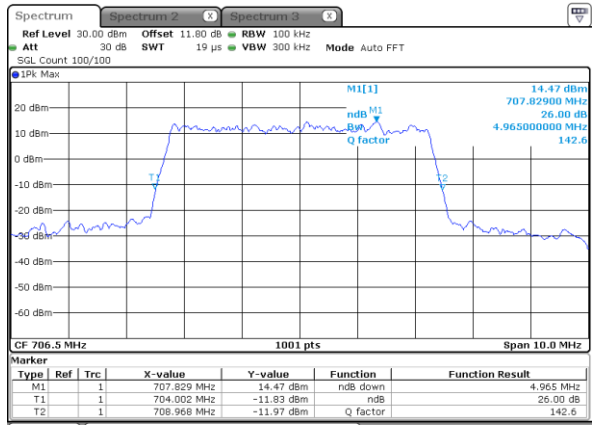
LTE Band 17

Lowest Channel / 5MHz / QPSK



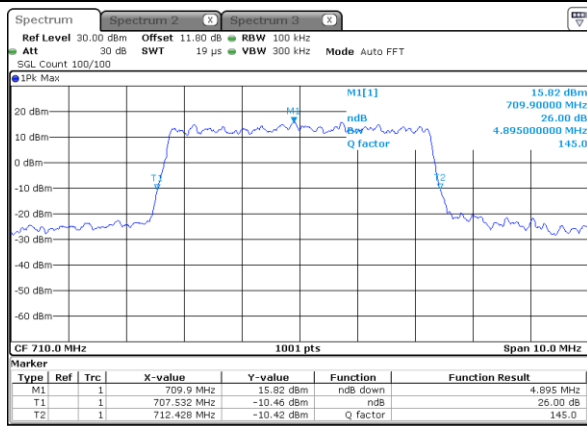
Date: 10, JAN, 2018 23:07:33

Lowest Channel / 5MHz / 16QAM



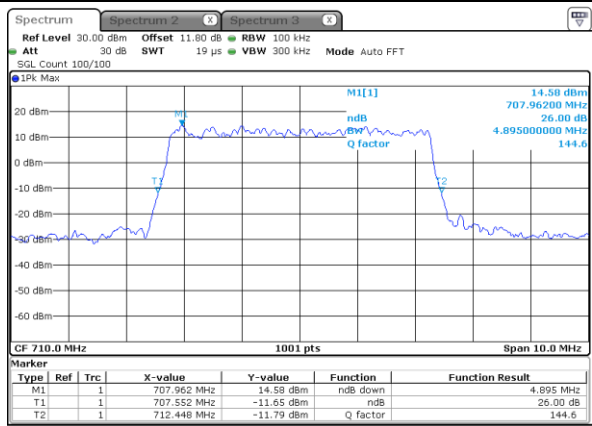
Date: 10, JAN, 2018 23:07:45

Middle Channel / 5MHz / QPSK



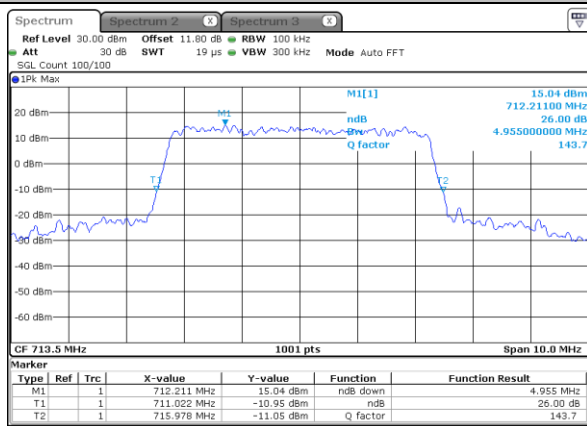
Date: 10, JAN, 2018 23:19:15

Middle Channel / 5MHz / 16QAM



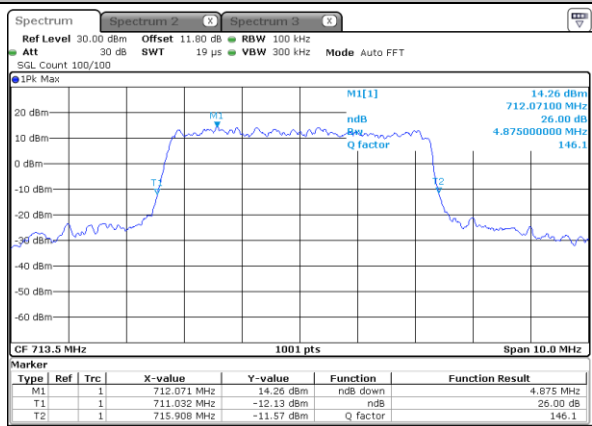
Date: 10, JAN, 2018 23:19:27

Highest Channel / 5MHz / QPSK



Date: 10, JAN, 2018 23:21:52

Highest Channel / 5MHz / 16QAM

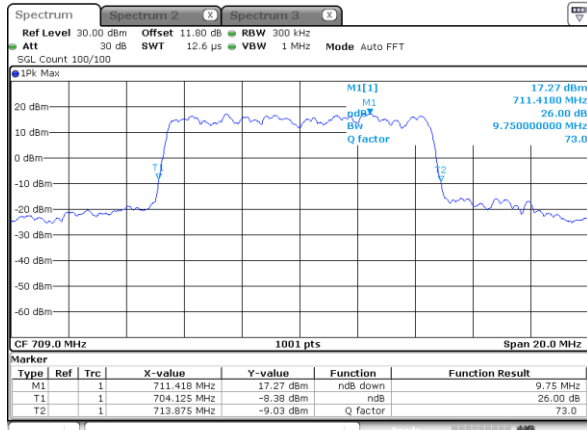


Date: 10, JAN, 2018 23:22:04



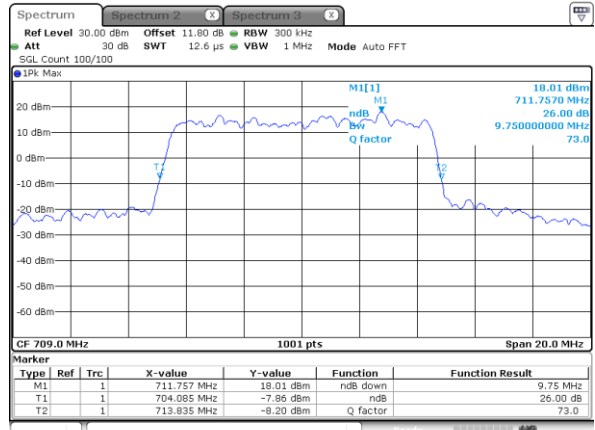
LTE Band 17

Lowest Channel / 10MHz / QPSK



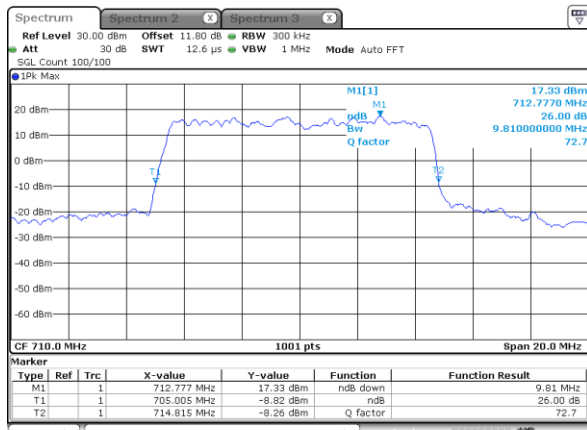
Date: 10, JAN, 2018 23:29:04

Lowest Channel / 10MHz / 16QAM



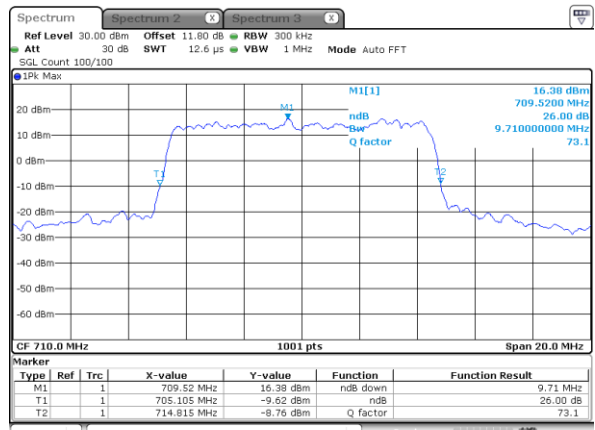
Date: 10, JAN, 2018 23:29:16

Middle Channel / 10MHz / QPSK



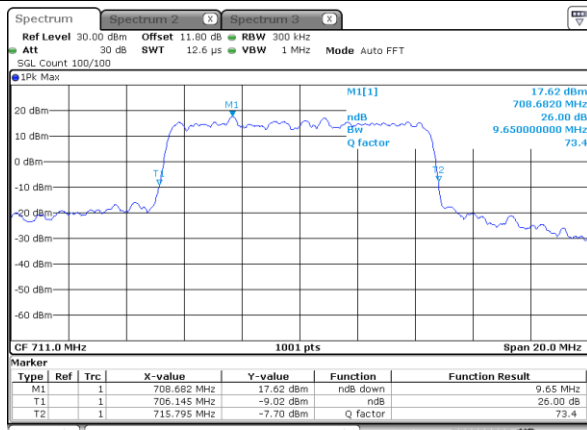
Date: 10, JAN, 2018 23:36:18

Middle Channel / 10MHz / 16QAM



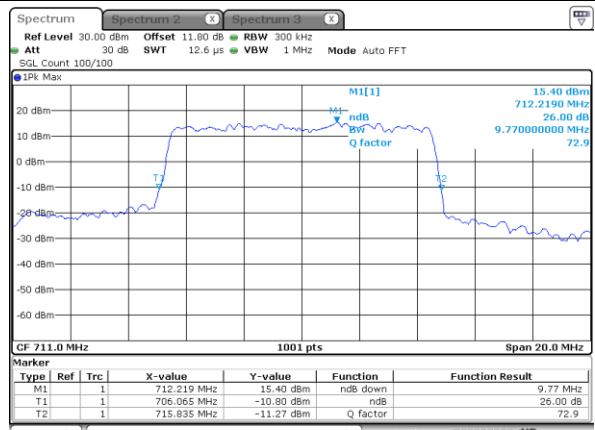
Date: 10, JAN, 2018 23:36:29

Highest Channel / 10MHz / QPSK



Date: 10, JAN, 2018 23:38:55

Highest Channel / 10MHz / 16QAM

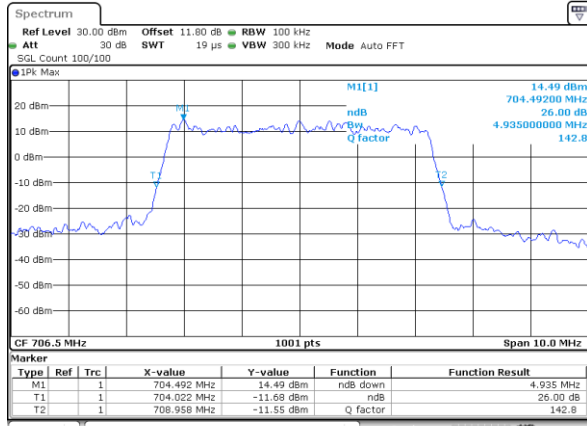


Date: 10, JAN, 2018 23:39:06



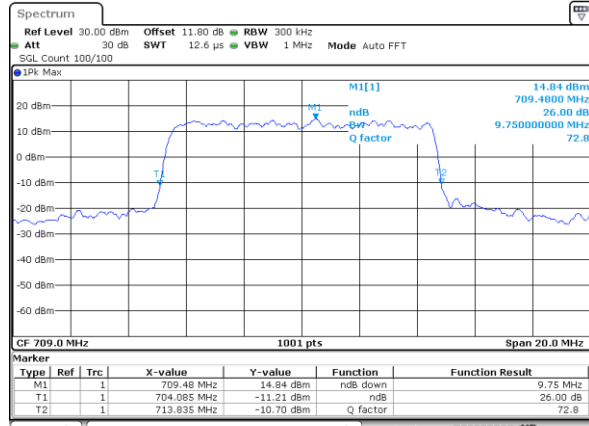
LTE Band 17

Lowest Channel / 5MHz / 64QAM



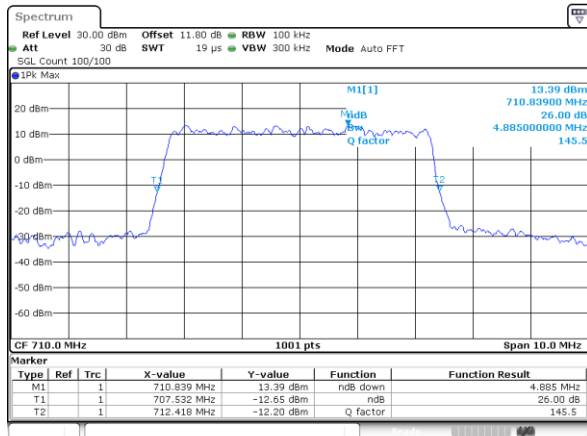
Date: 2.FEB.2018 01:13:11

Lowest Channel / 10MHz / 64QAM



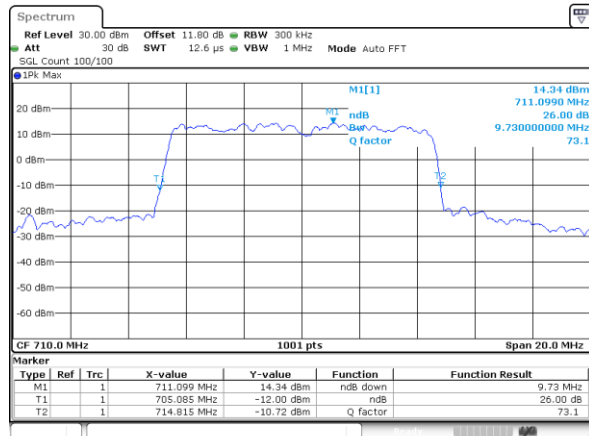
Date: 2.FEB.2018 01:21:47

Middle Channel / 5MHz / 64QAM



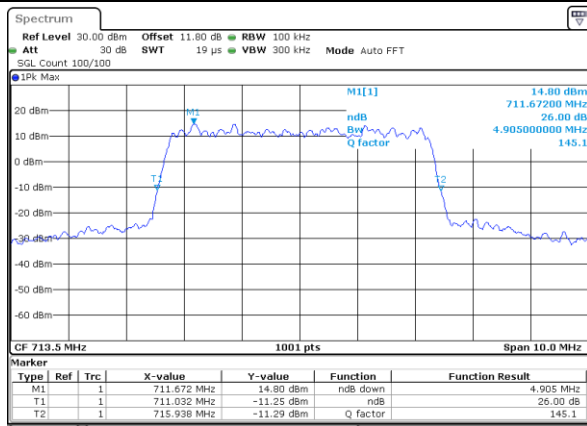
Date: 2.FEB.2018 01:16:49

Middle Channel / 10MHz / 64QAM



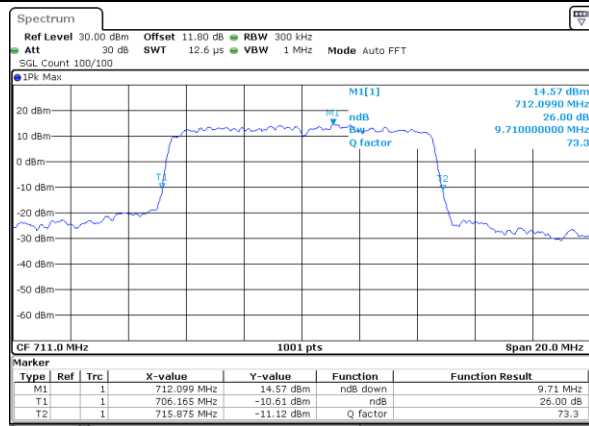
Date: 2.FEB.2018 01:24:16

Highest Channel / 5MHz / 64QAM



Date: 2.FEB.2018 01:18:09

Highest Channel / 10MHz / 64QAM



Date: 2.FEB.2018 01:25:36

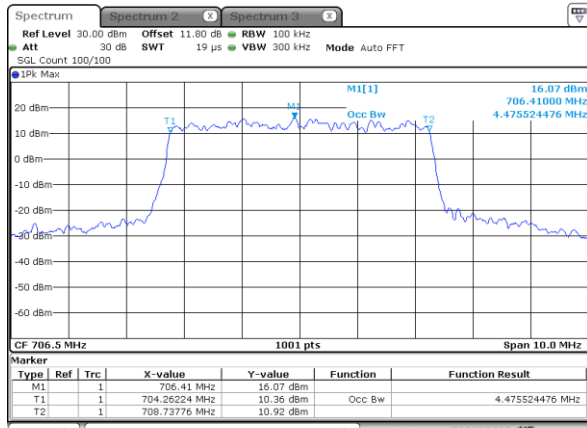
**Occupied Bandwidth**

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	4.52	8.97	9.03	-	-	-	-
Middle CH	-	-	-	-	4.50	4.49	9.03	9.05	-	-	-	-
Highest CH	-	-	-	-	4.49	4.50	8.97	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	-	-	-	-	4.51	-	9.05	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	9.01	-	-	-	-	-
Highest CH	-	-	-	-	4.48	-	9.01	-	-	-	-	-



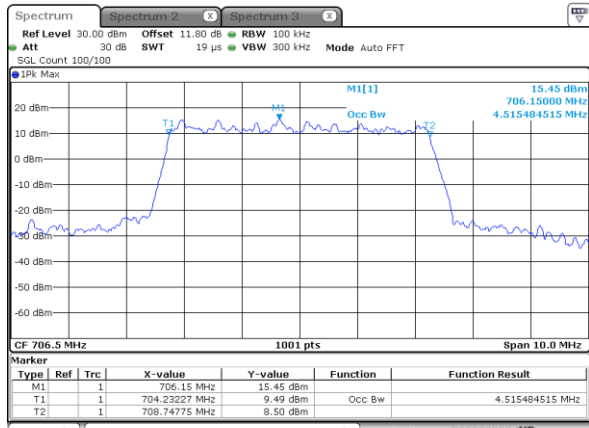
LTE Band 17

Lowest Channel / 5MHz / QPSK



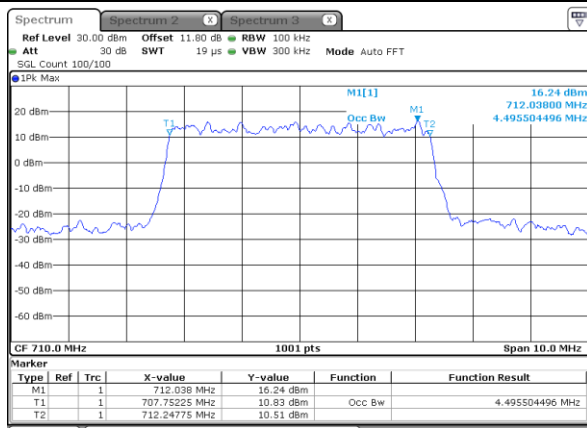
Date: 10, JAN, 2018 23:07:10

Lowest Channel / 5MHz / 16QAM



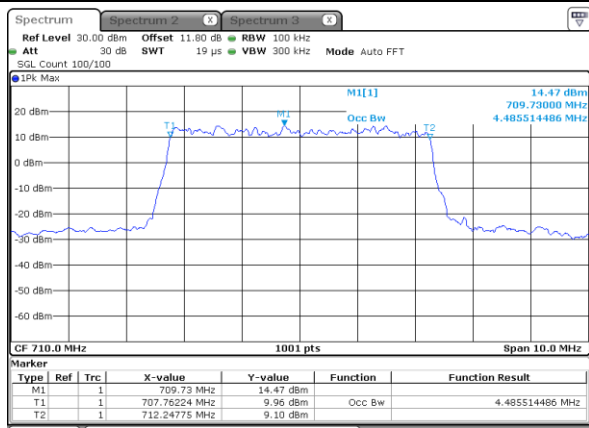
Date: 10, JAN, 2018 23:07:122

Middle Channel / 5MHz / QPSK



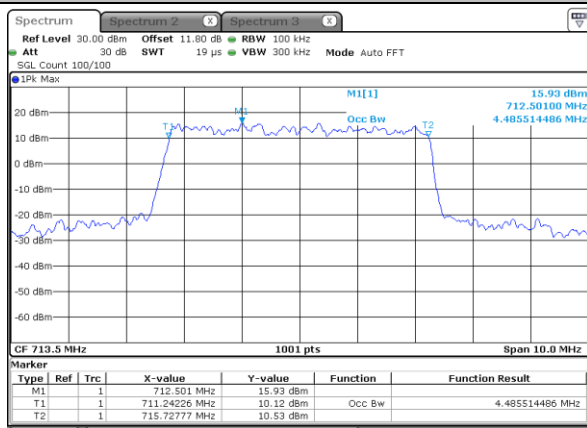
Date: 10, JAN, 2018 23:18:53

Middle Channel / 5MHz / 16QAM



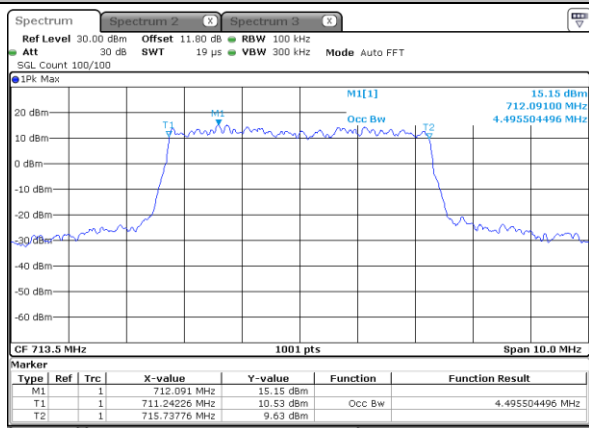
Date: 10, JAN, 2018 23:19:04

Highest Channel / 5MHz / QPSK



Date: 10, JAN, 2018 23:21:30

Highest Channel / 5MHz / 16QAM

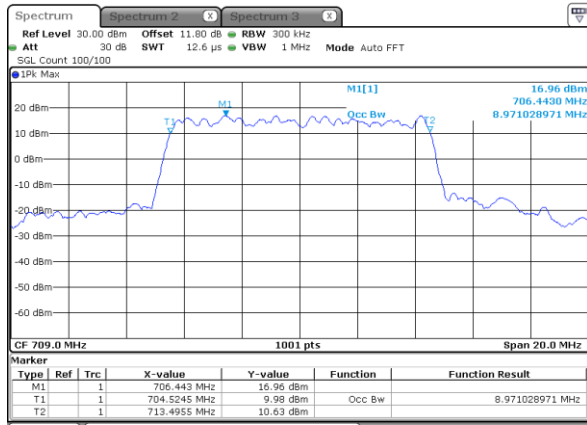


Date: 10, JAN, 2018 23:21:41



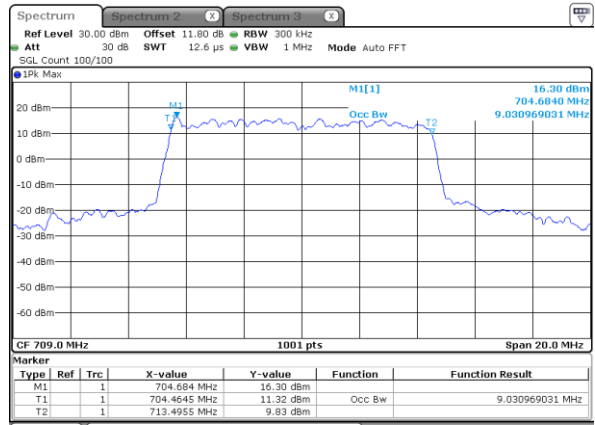
LTE Band 17

Lowest Channel / 10MHz / QPSK



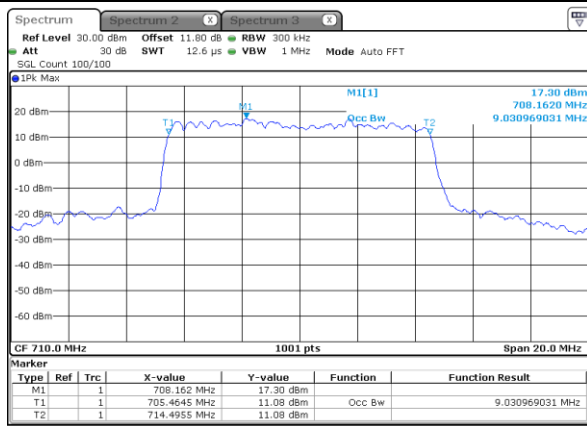
Date: 10, JAN, 2018 23:28:42

Lowest Channel / 10MHz / 16QAM



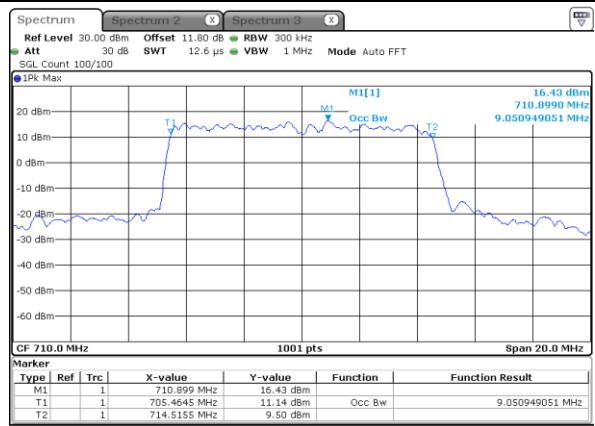
Date: 10, JAN, 2018 23:28:53

Middle Channel / 10MHz / QPSK



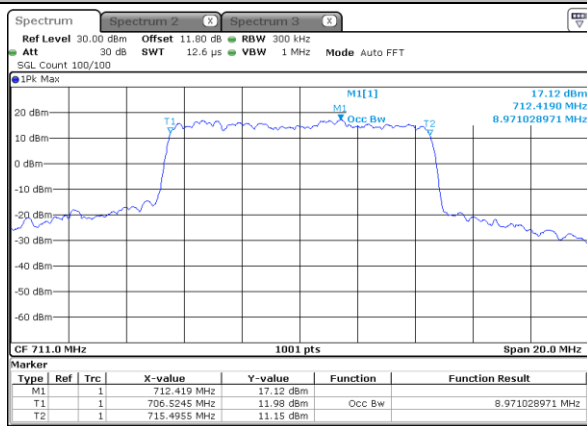
Date: 10, JAN, 2018 23:35:55

Middle Channel / 10MHz / 16QAM



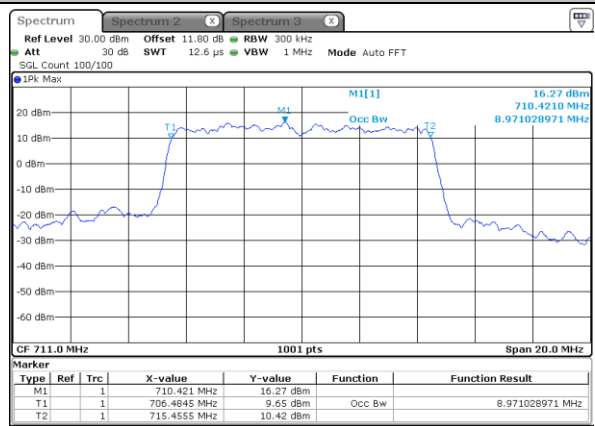
Date: 10, JAN, 2018 23:36:06

Highest Channel / 10MHz / QPSK



Date: 10, JAN, 2018 23:38:32

Highest Channel / 10MHz / 16QAM

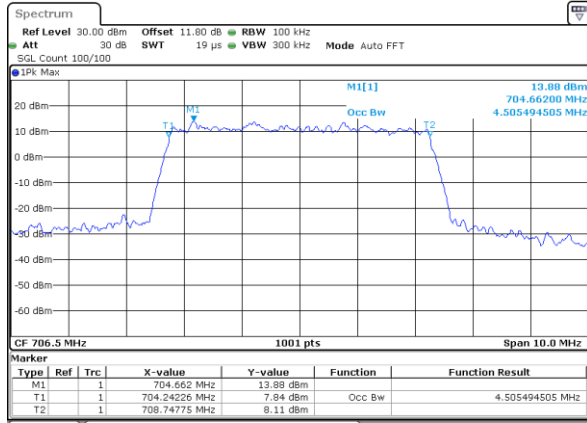


Date: 10, JAN, 2018 23:38:43



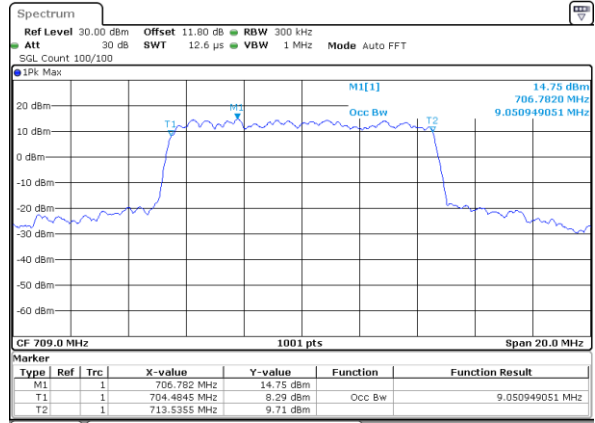
LTE Band 17

Lowest Channel / 5MHz / 64QAM



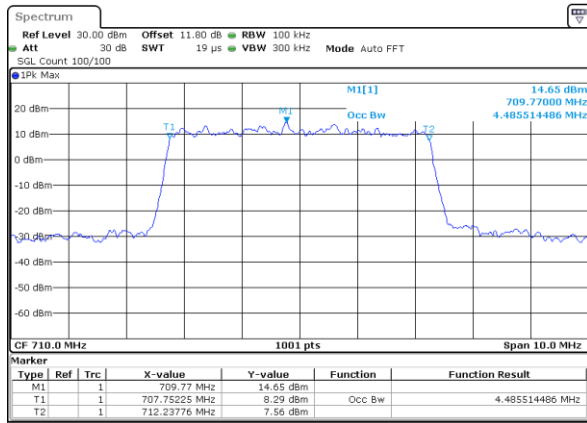
Date: 2.FEB.2018 01:12:59

Lowest Channel / 10MHz / 64QAM



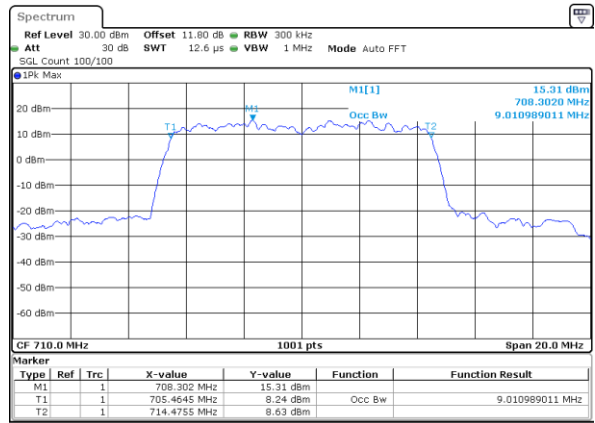
Date: 2.FEB.2018 01:21:36

Middle Channel / 5MHz / 64QAM



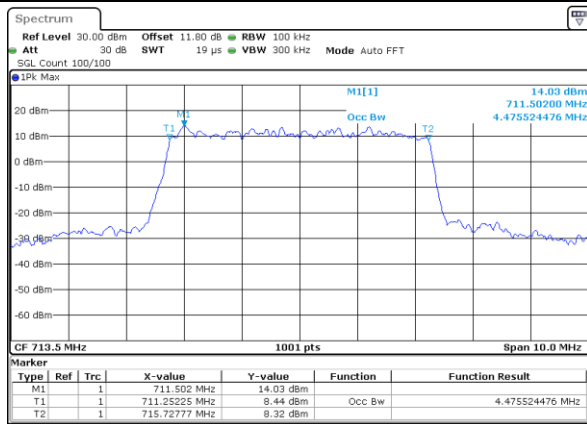
Date: 2.FEB.2018 01:16:37

Middle Channel / 10MHz / 64QAM



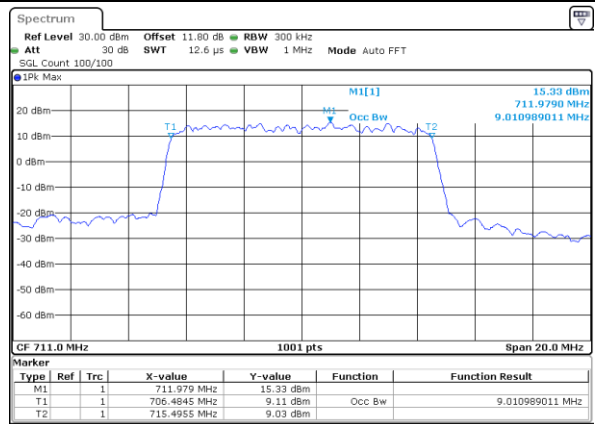
Date: 2.FEB.2018 01:24:04

Highest Channel / 5MHz / 64QAM



Date: 2.FEB.2018 01:17:58

Highest Channel / 10MHz / 64QAM



Date: 2.FEB.2018 01:25:25

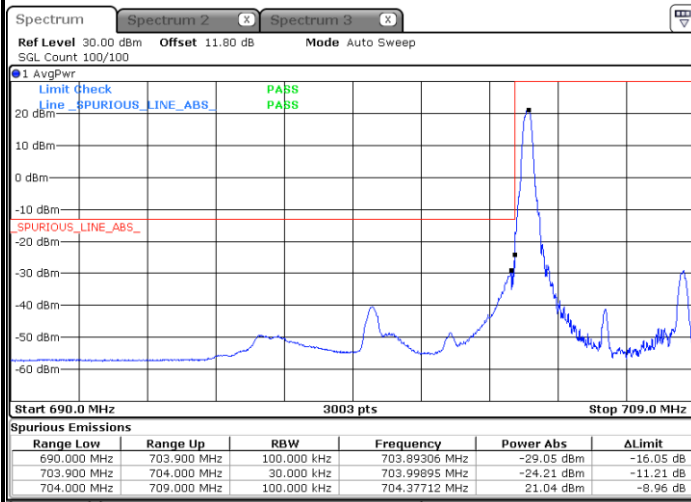


Conducted Band Edge

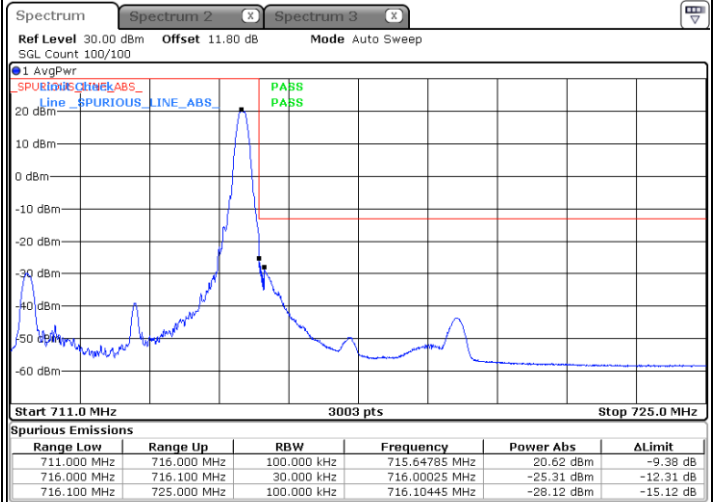


LTE Band 17 / 5MHz / QPSK

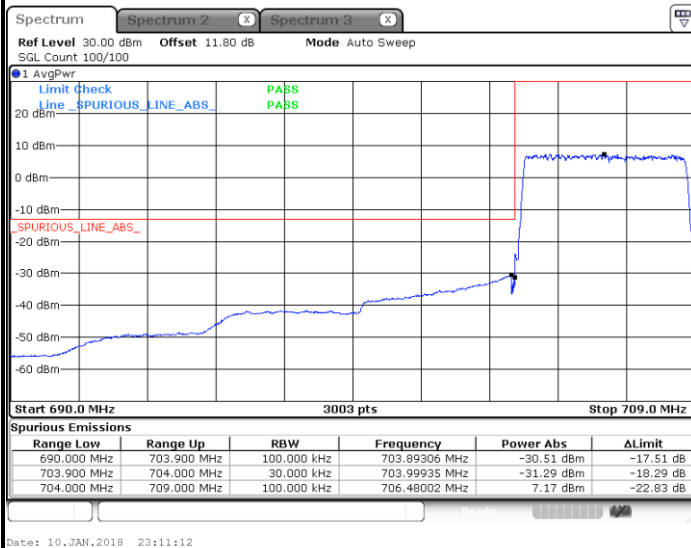
Lowest Band Edge / 1 RB



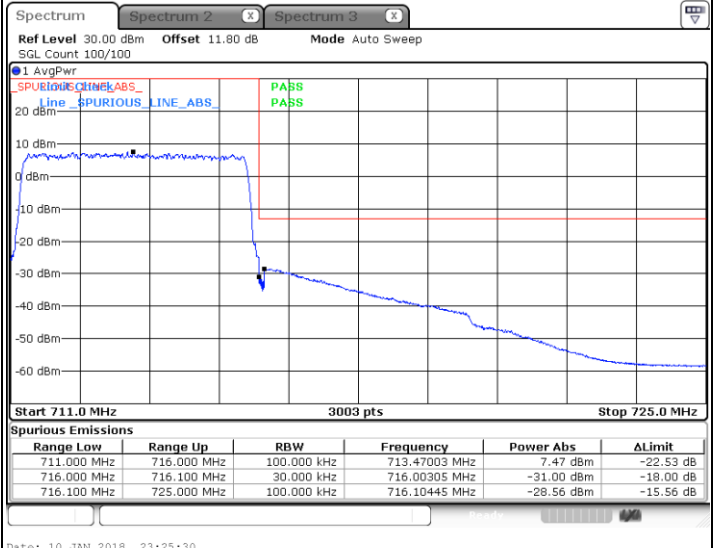
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



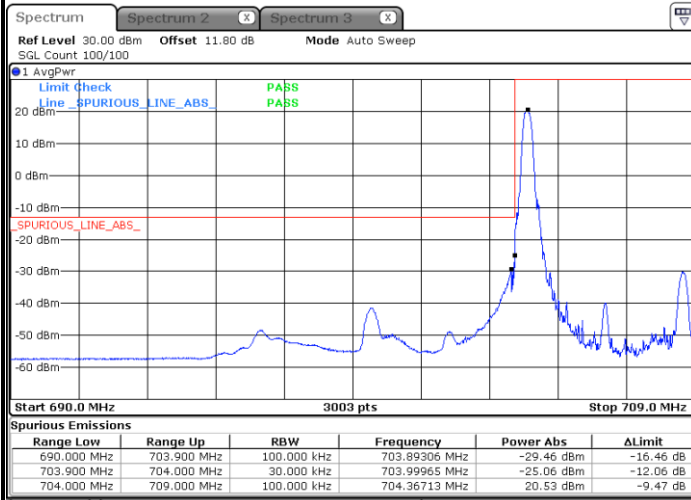
Highest Band Edge / Full RB



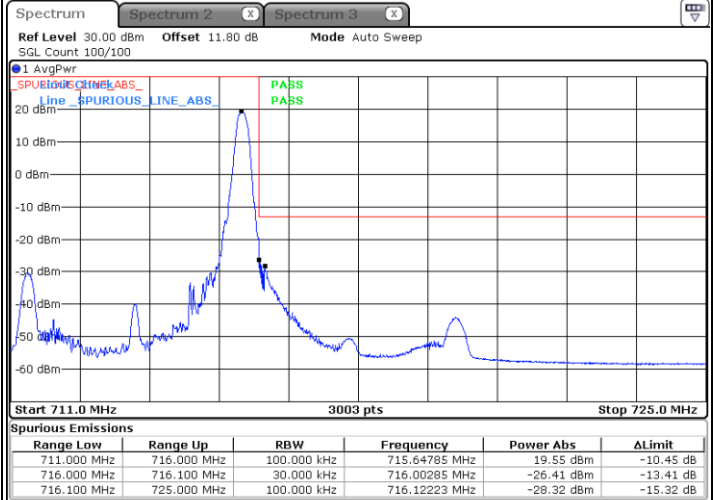


LTE Band 17 / 5MHz / 16QAM

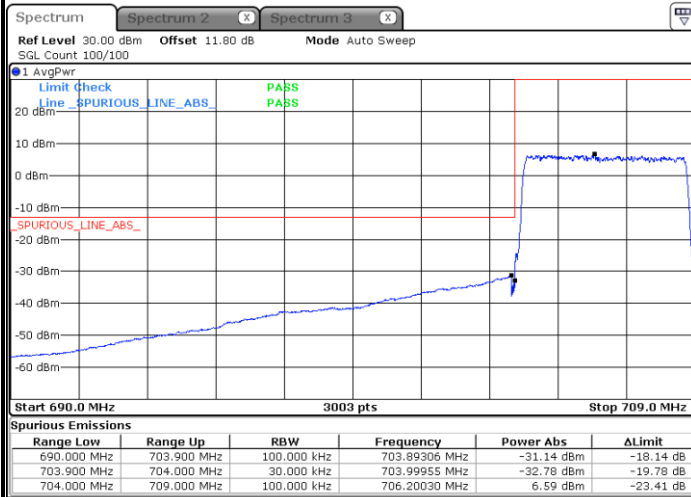
Lowest Band Edge / 1 RB



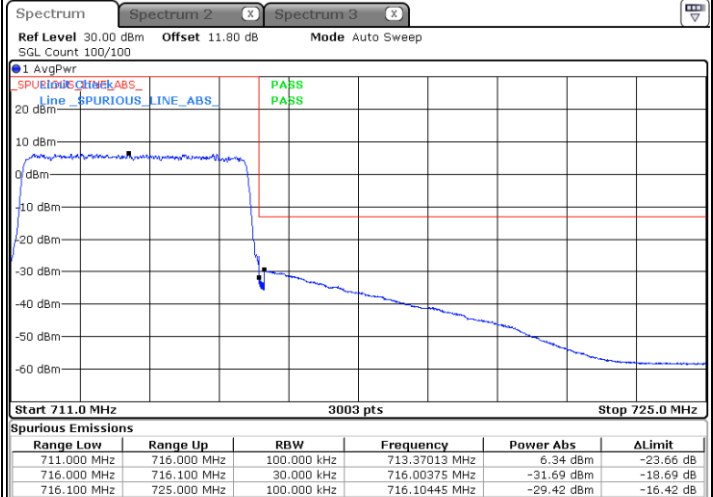
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



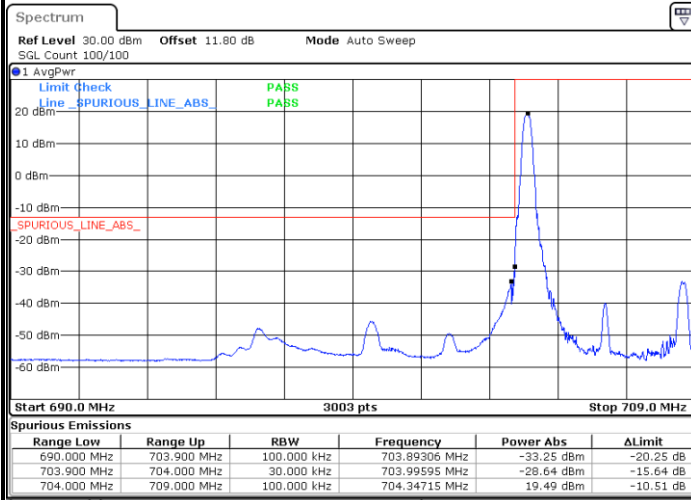
Highest Band Edge / Full RB



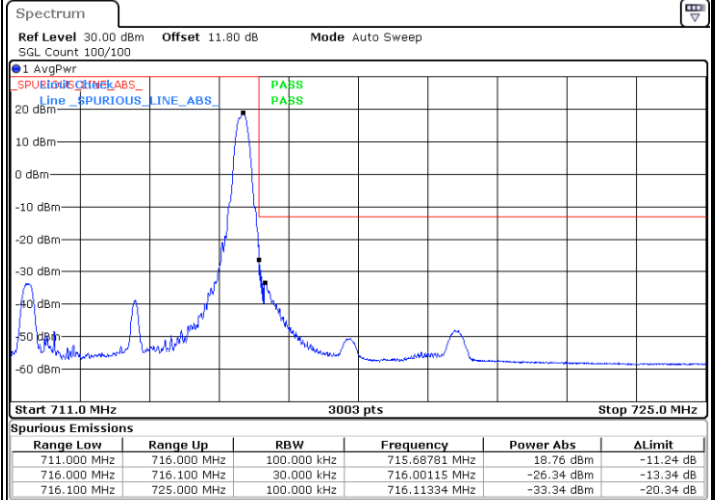


LTE Band 17 / 5MHz / 64QAM

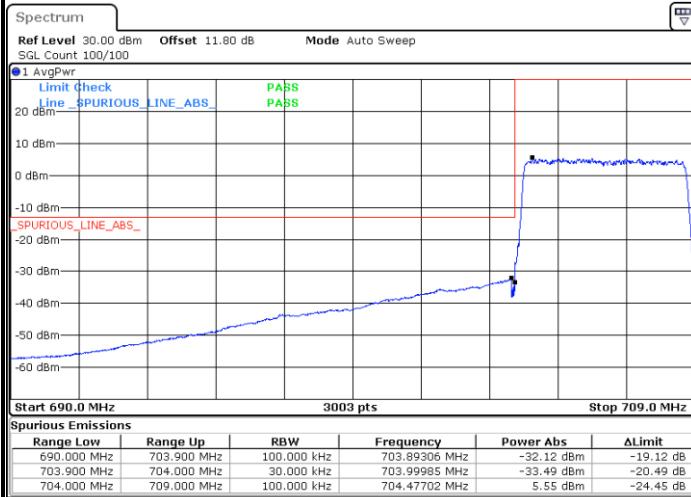
Lowest Band Edge / 1 RB



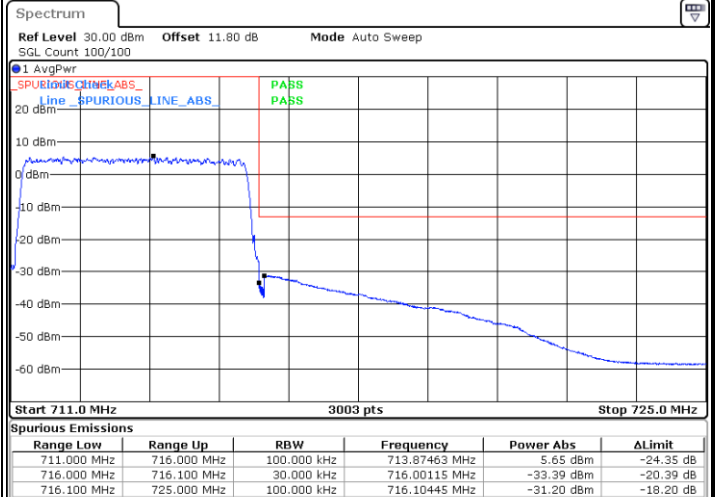
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



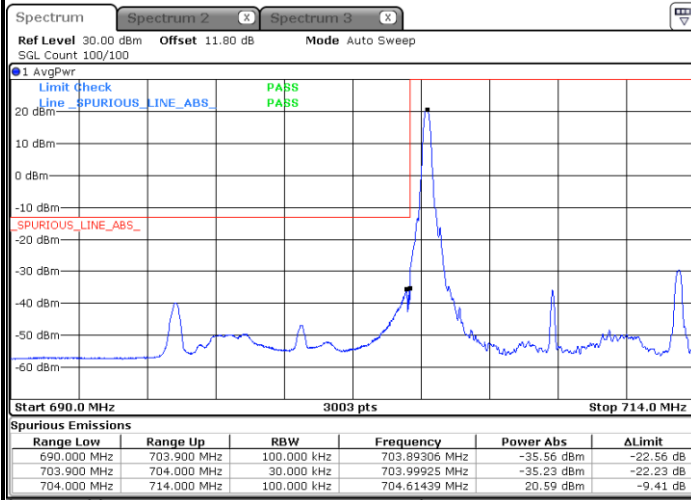
Highest Band Edge / Full RB



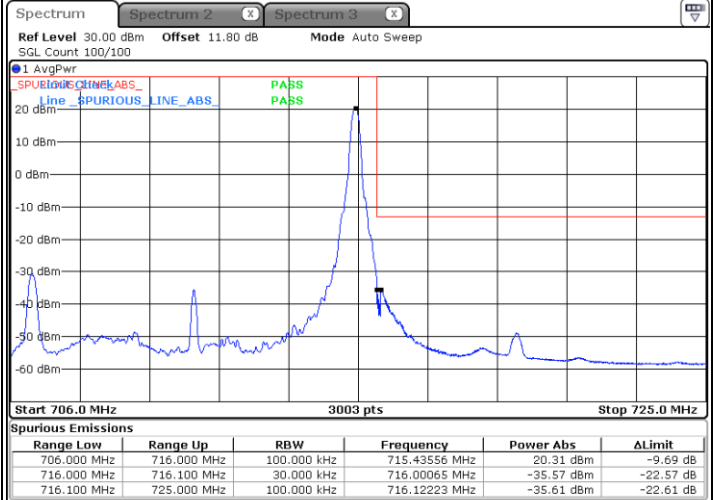


LTE Band 17 / 10MHz / QPSK

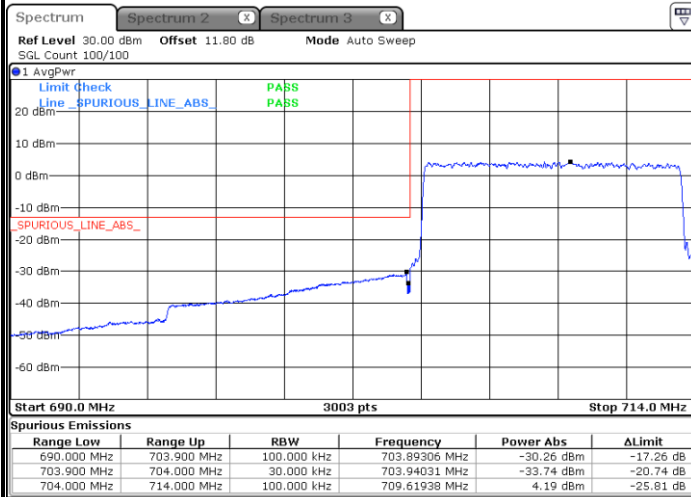
Lowest Band Edge / 1 RB



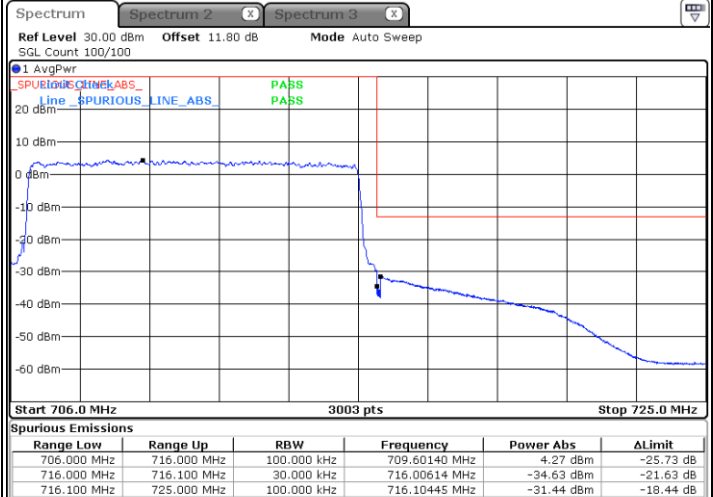
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



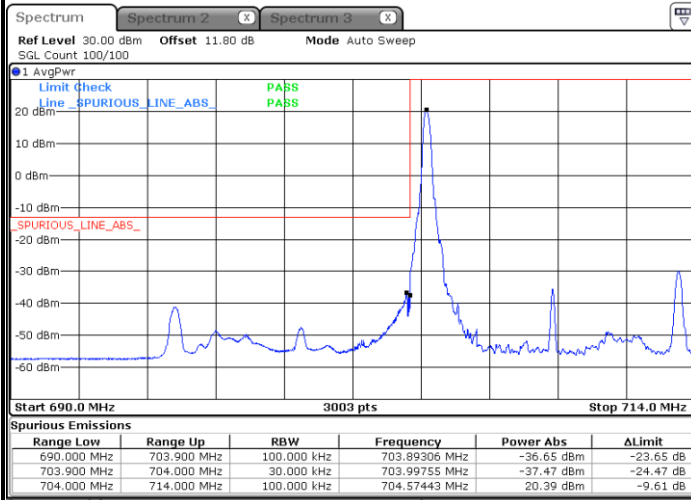
Highest Band Edge / Full RB



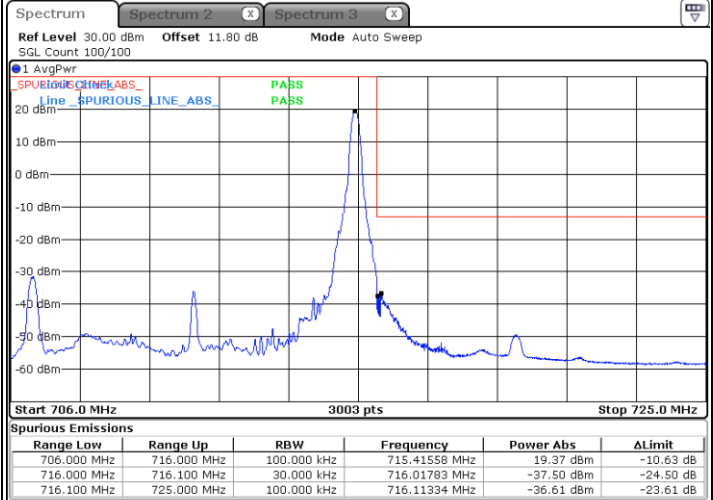


LTE Band 17 / 10MHz / 16QAM

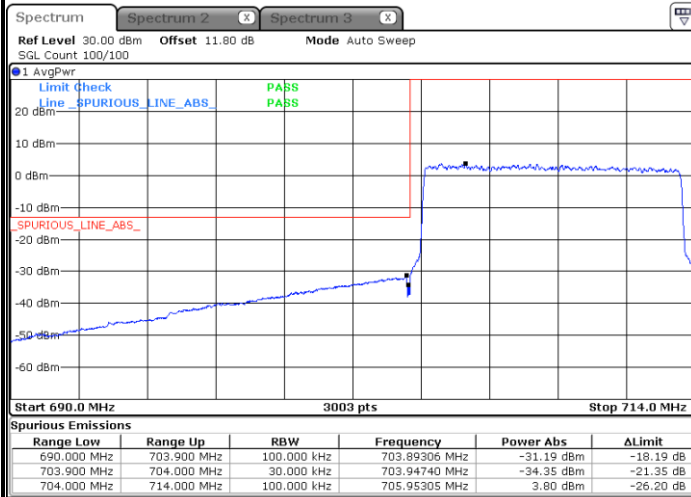
Lowest Band Edge / 1 RB



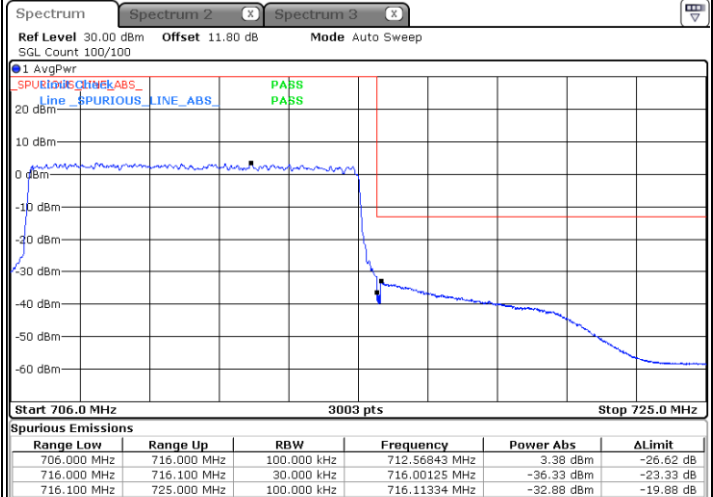
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



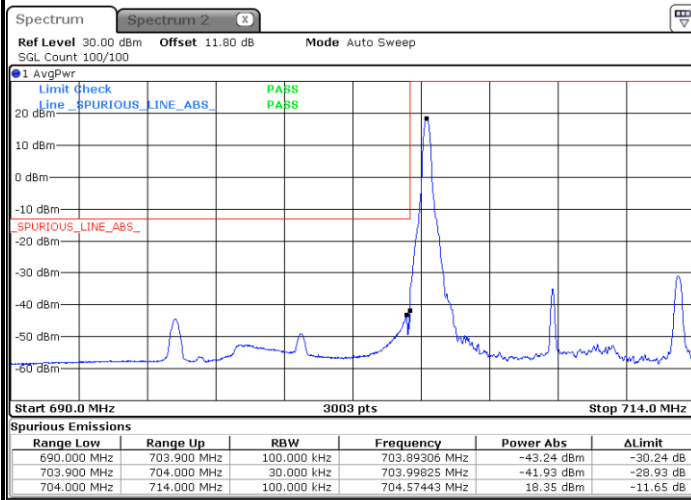
Highest Band Edge / Full RB



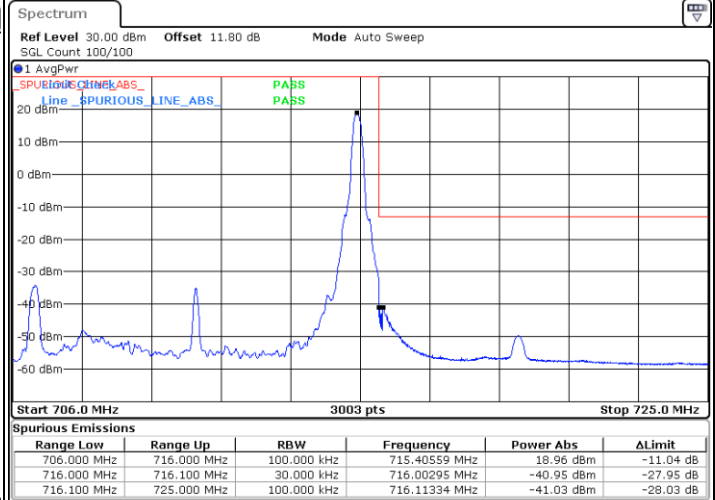


LTE Band 17 / 10MHz / 64QAM

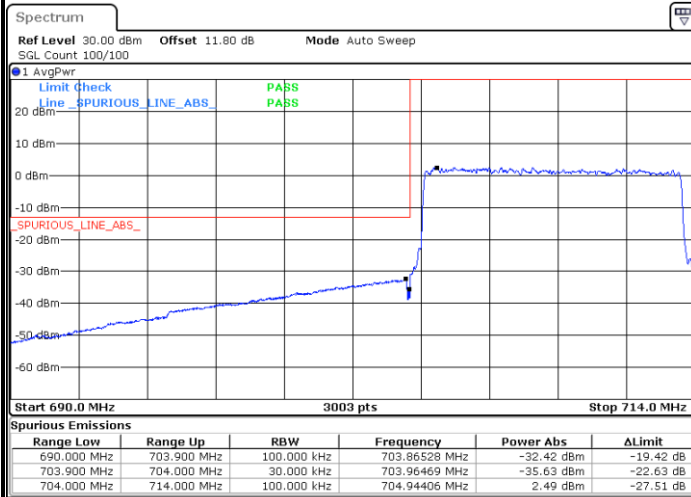
Lowest Band Edge / 1 RB



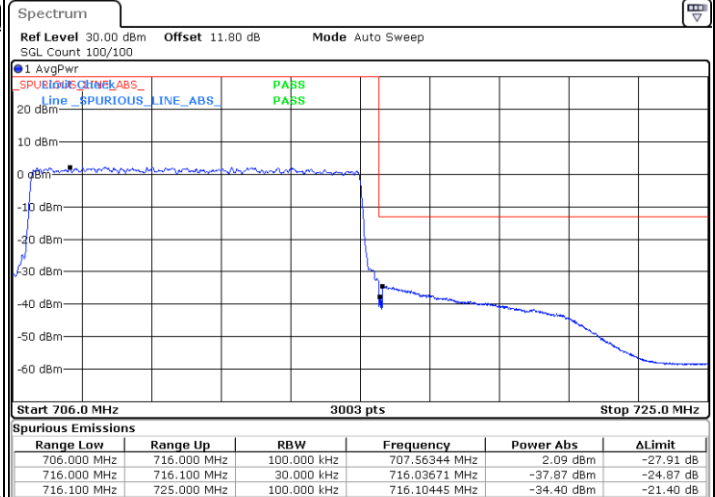
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



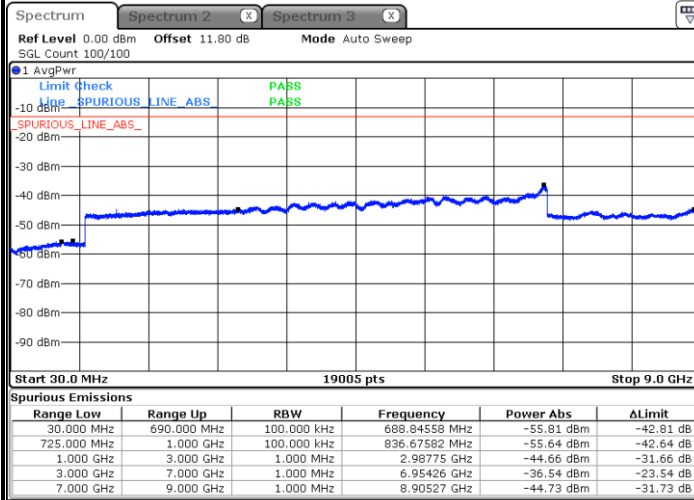


Conducted Spurious Emission



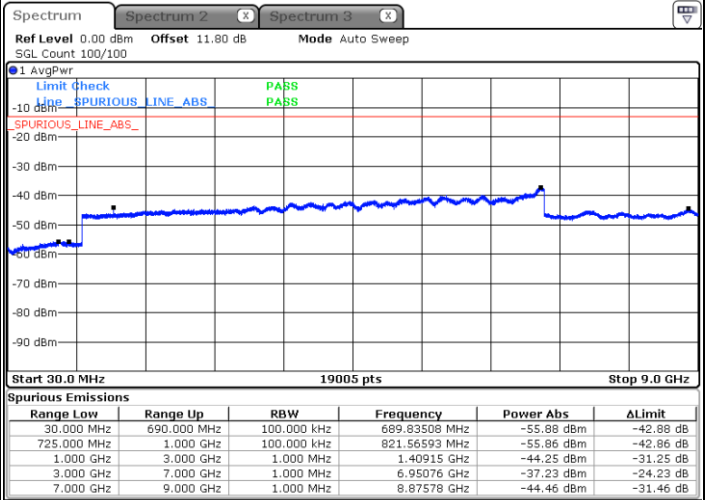
LTE Band 17 / 5MHz

Lowest Channel / QPSK



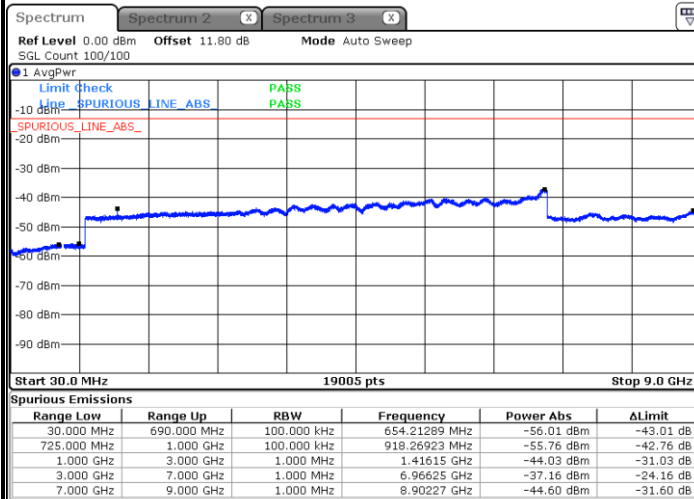
Date: 10.JAN.2018 23:17:45

Lowest Channel / 16QAM



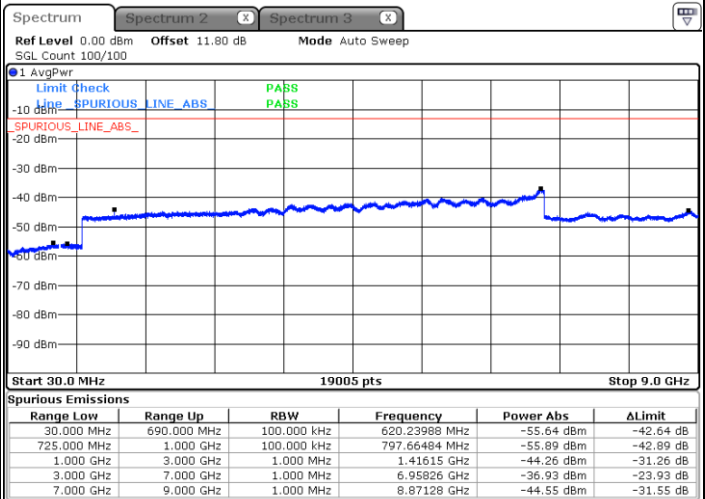
Date: 10.JAN.2018 23:18:41

Middle Channel / QPSK



Date: 10.JAN.2018 23:20:22

Middle Channel / 16QAM



Date: 10.JAN.2018 23:21:18