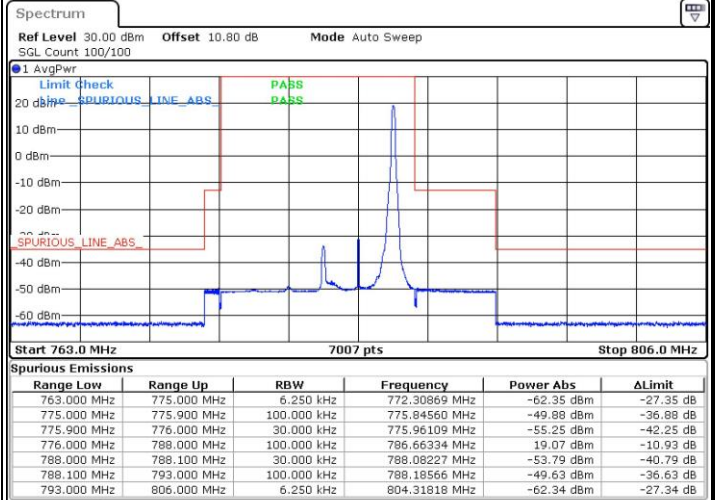
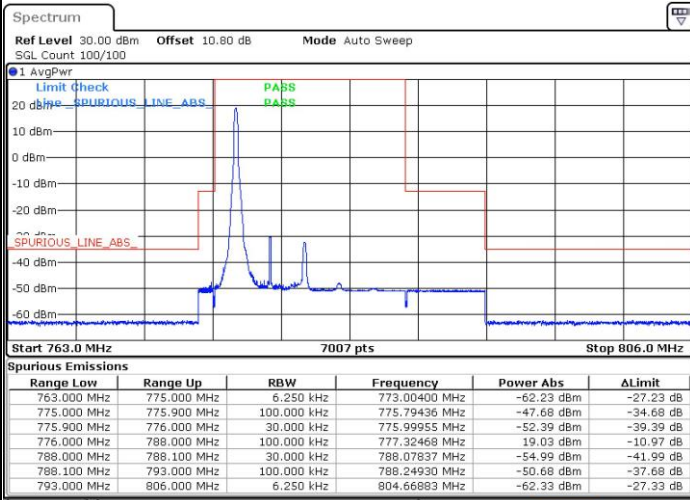




LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

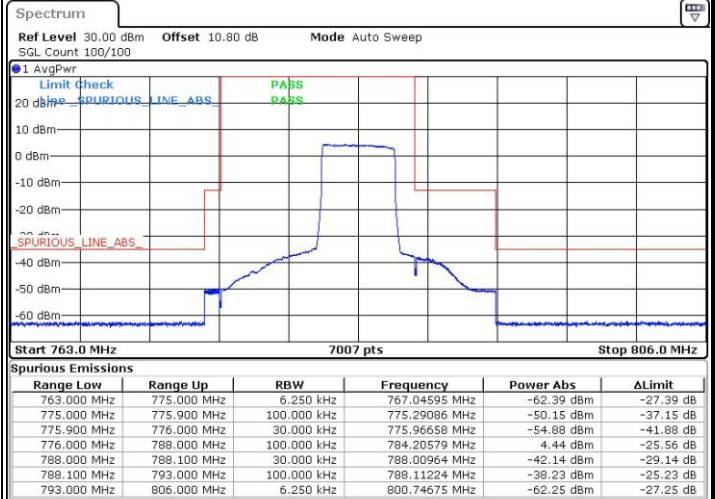
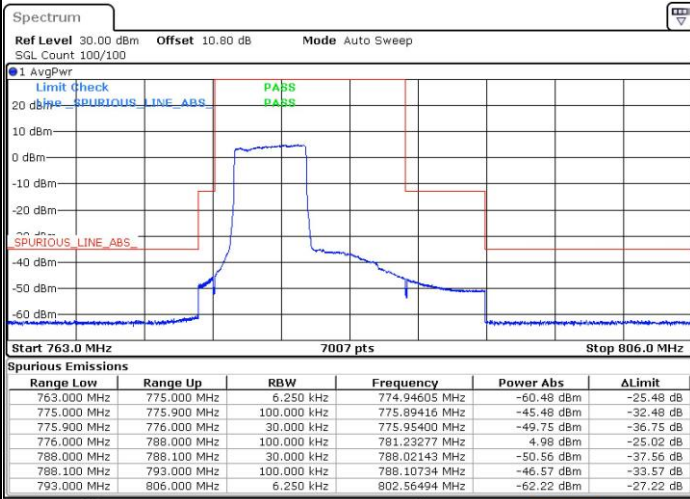


Date: 22 AUG 2018 08:50:41

Date: 22 AUG 2018 08:56:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22 AUG 2018 08:49:00

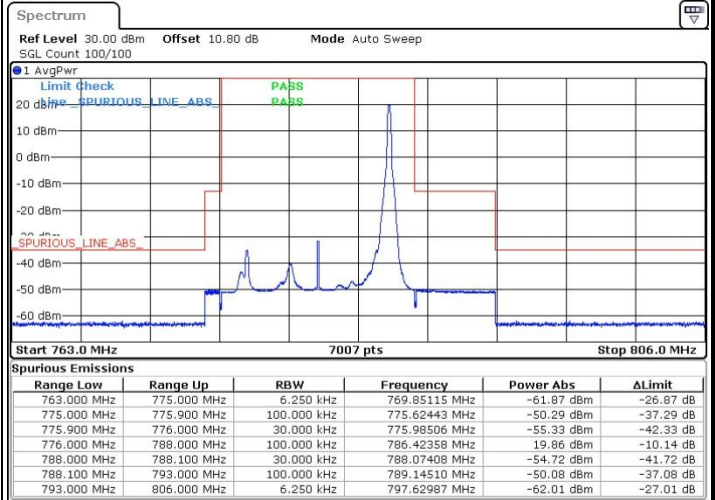
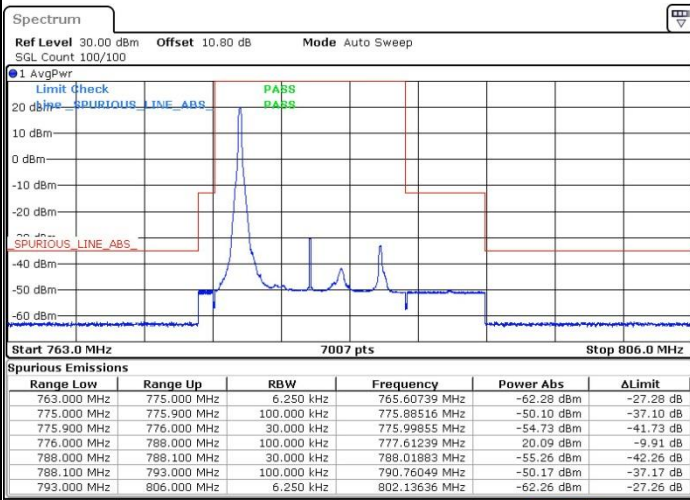
Date: 22 AUG 2018 08:55:07



LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

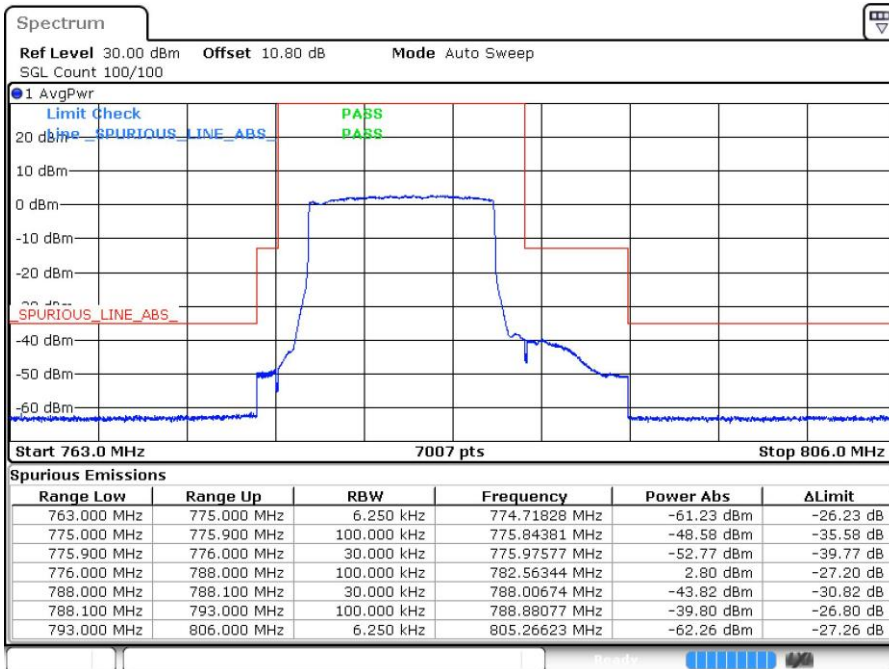
Highest Band Edge / 1 RB



Date: 22 AUG 2018 09:05:14

Date: 22 AUG 2018 09:06:55

Band Edge / Full RB



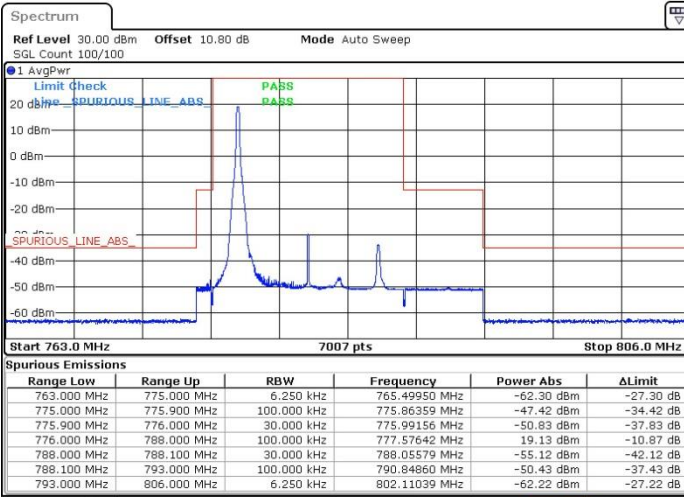
Date: 22 AUG 2018 09:00:13



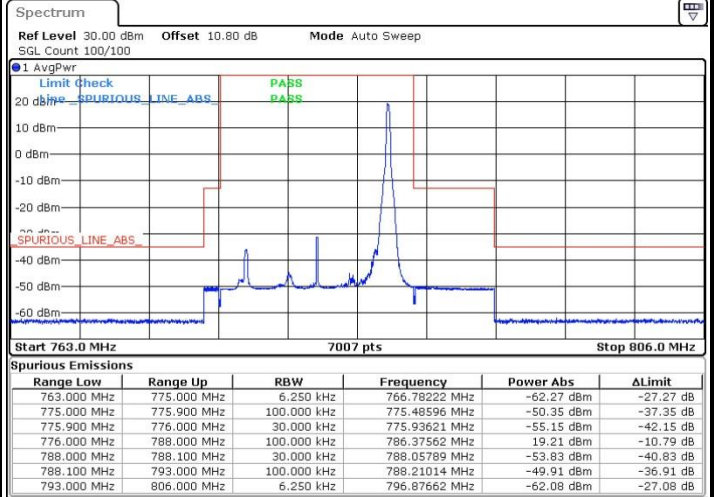
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

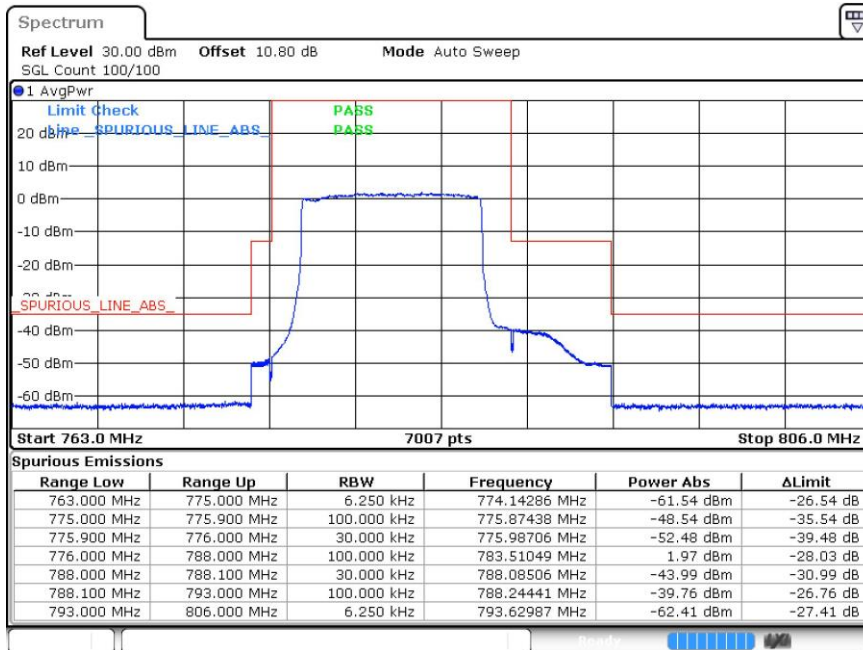


Date: 22 AUG 2018 09:03:34



Date: 22 AUG 2018 09:08:35

Band Edge / Full RB



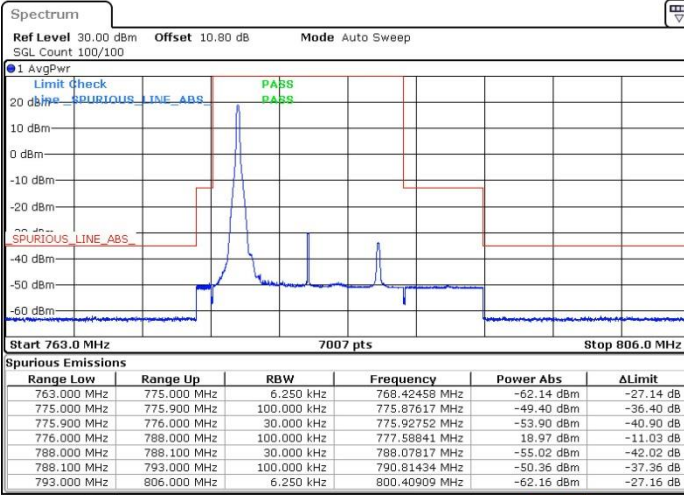
Date: 22.AUG.2018 09:01:54



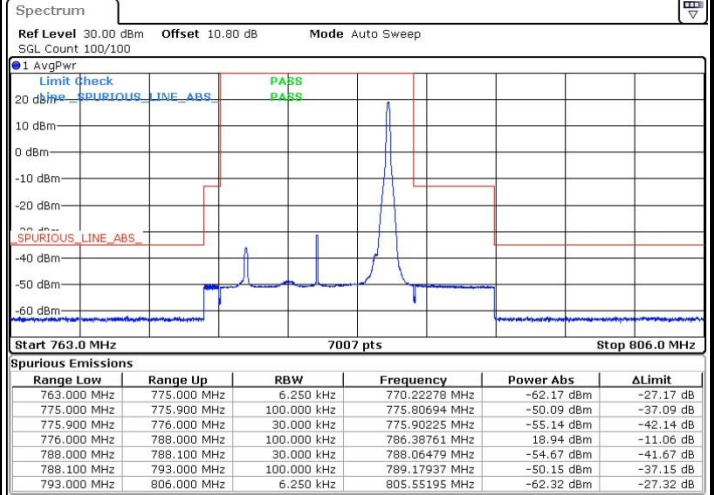
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

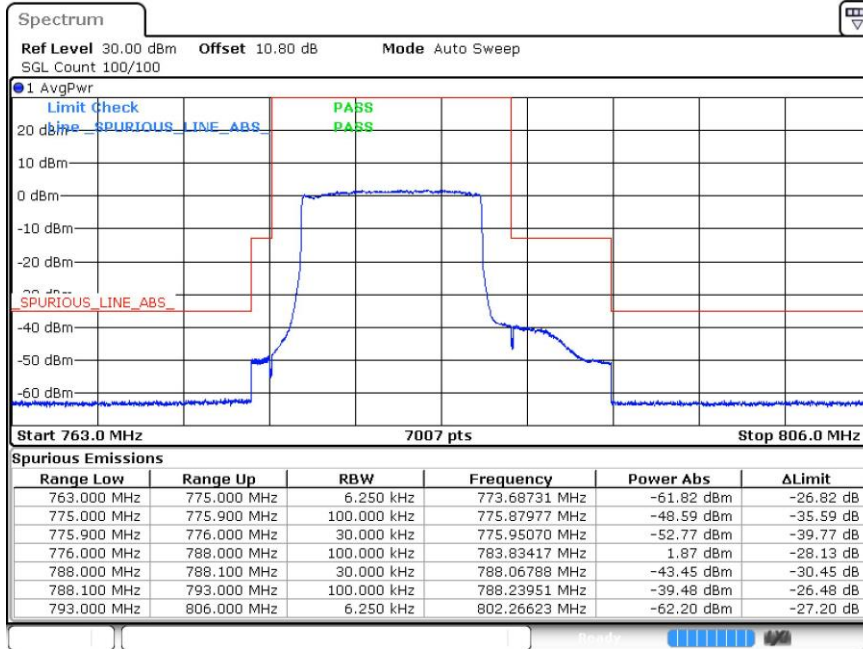


Date: 22.AUG.2018 09:14:18



Date: 22.AUG.2018 09:15:59

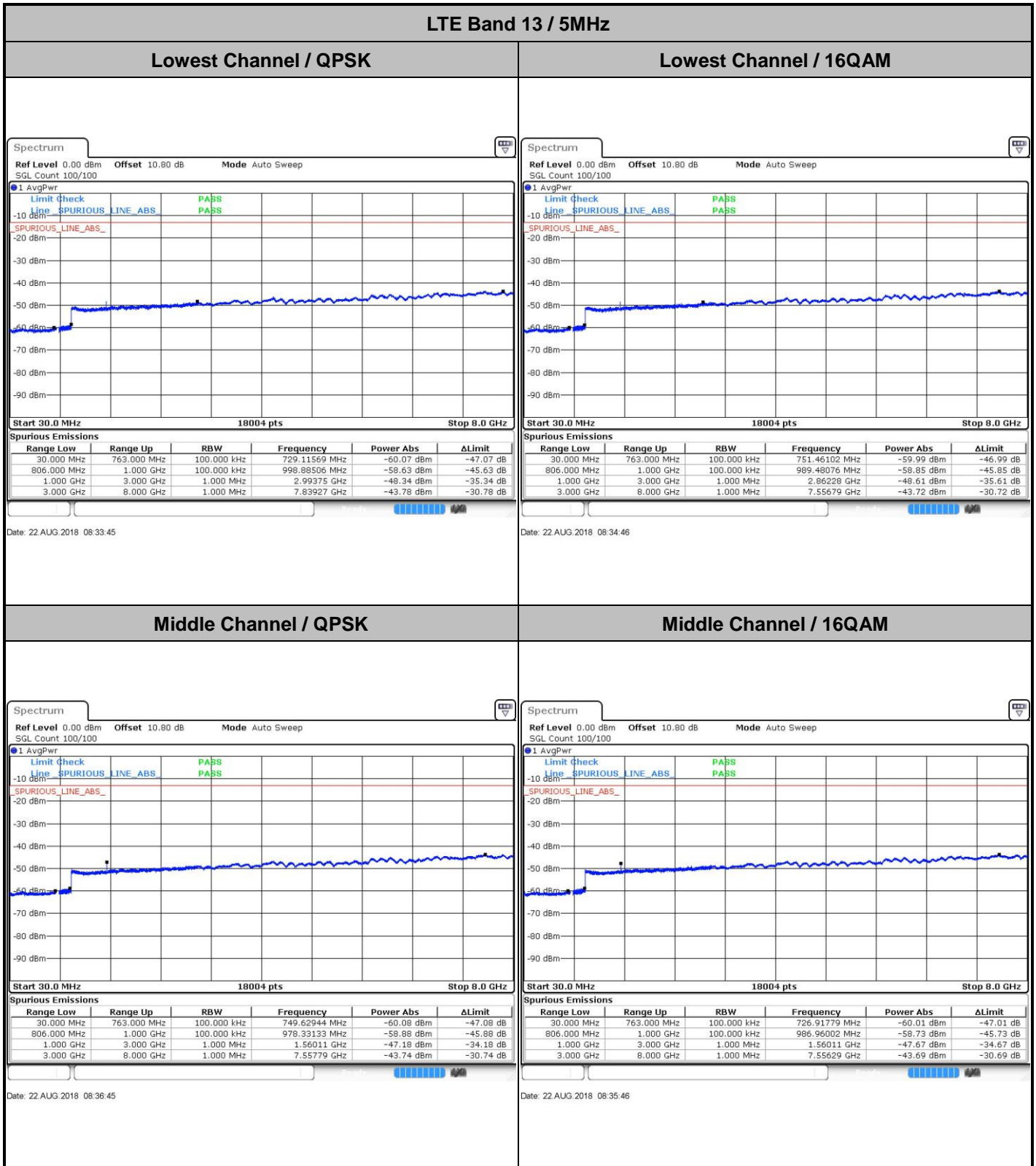
Band Edge / Full RB



Date: 22.AUG.2018 09:12:38



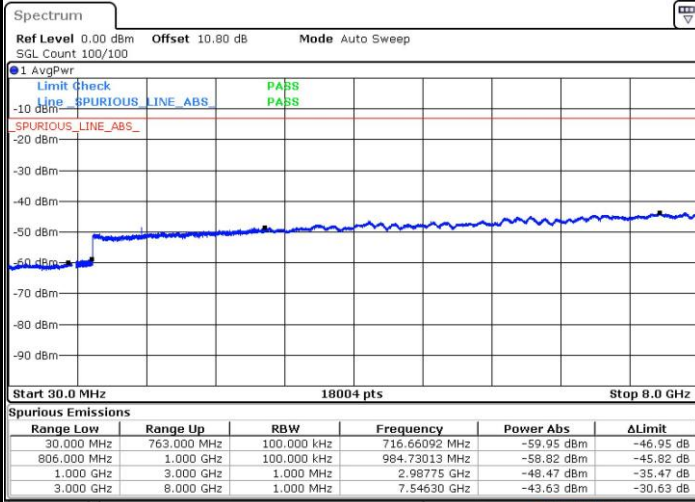
# Conducted Spurious Emission





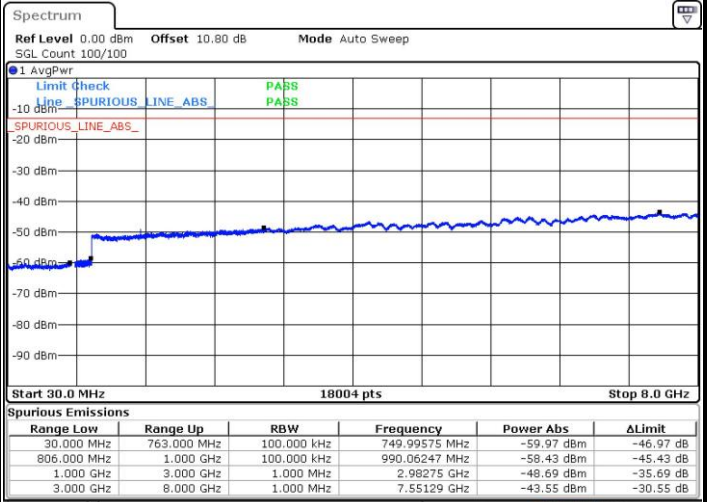
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 22 AUG.2018 08:45:58

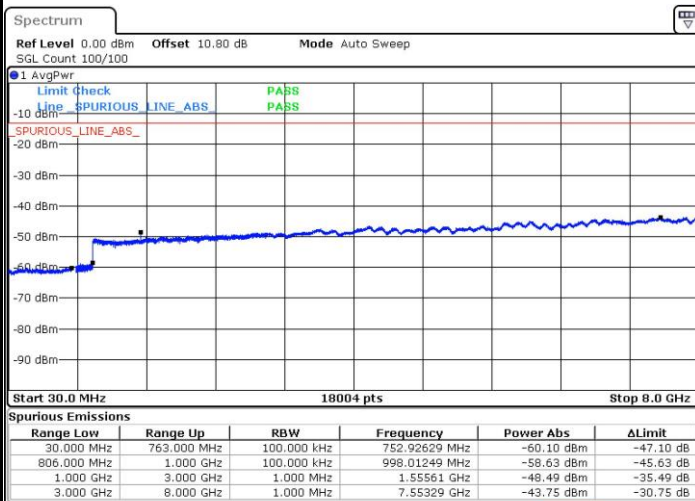
Highest Channel / 16QAM



Date: 22 AUG.2018 08:46:58

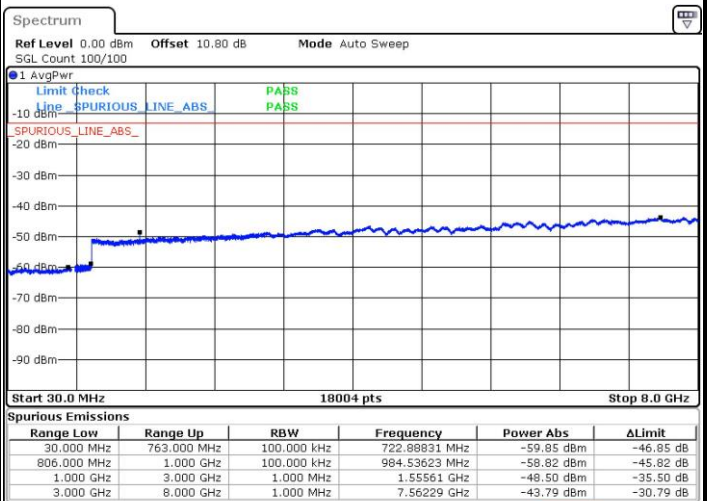
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 22 AUG.2018 09:10:36

Middle Channel / 16QAM



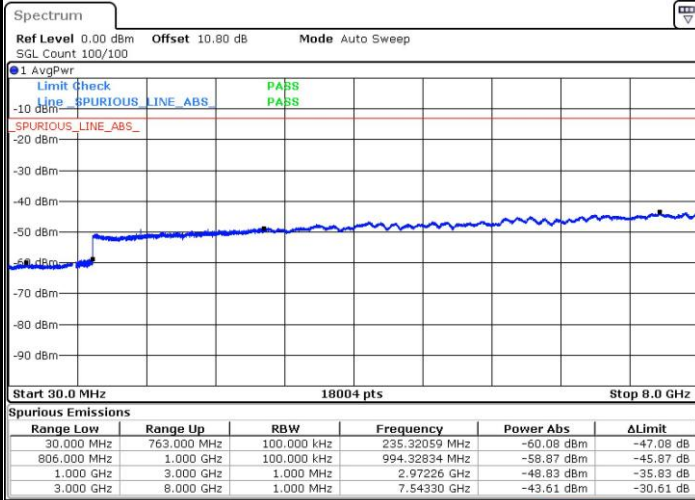
Date: 22 AUG.2018 09:09:36



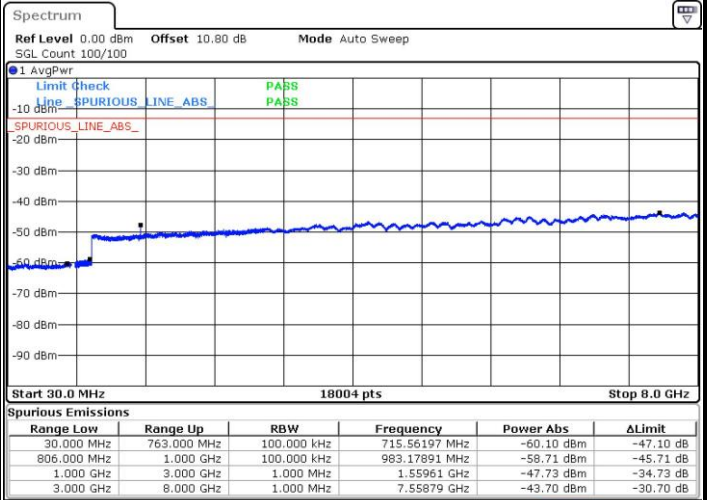
LTE Band 13 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

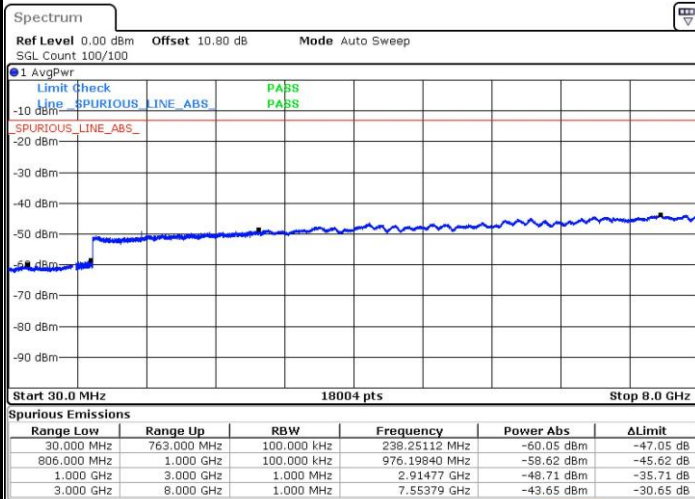


Date: 22 AUG.2018 08:51:42



Date: 22 AUG.2018 08:52:42

Highest Channel / 64QAM

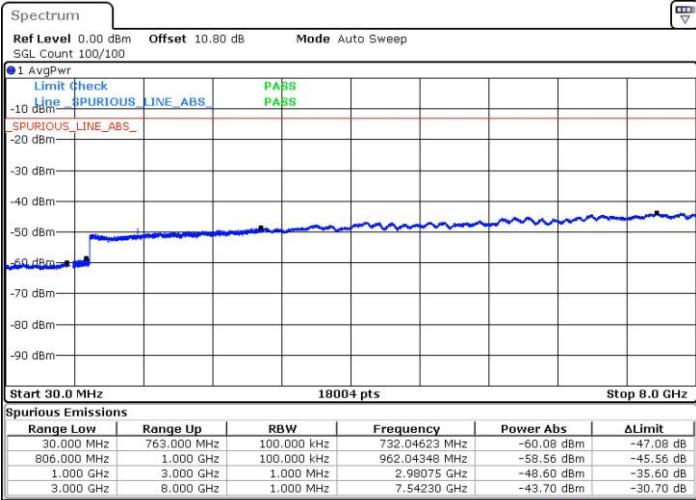


Date: 22 AUG.2018 08:57:48



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Date: 22 AUG 2018 09:16:59





**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	0.0031	PASS
40	Normal Voltage	0.0116	
30	Normal Voltage	0.0105	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0111	
-20	Normal Voltage	0.0123	
-30	Normal Voltage	0.0107	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0124	

**Note:**

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



# LTE Band 25

## Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.61	5.42	6.03	<b>PASS</b>
Middle CH	3.71	4.75	5.1	6.14	
Highest CH	3.71	4.61	5.19	5.94	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.41	6.64	-	-	<b>PASS</b>
Middle CH	6.72	6.72	-	-	
Highest CH	6.55	6.58	-	-	



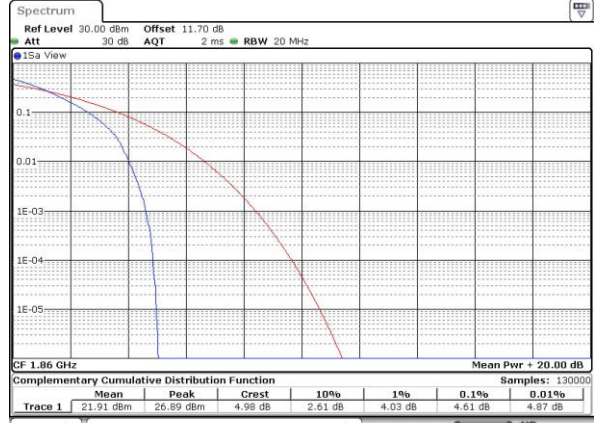
LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



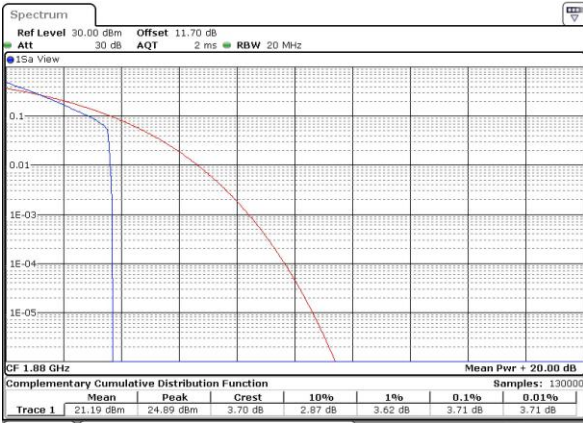
Date: 19 AUG 2018 22:50:23

Lowest Channel / Full RB



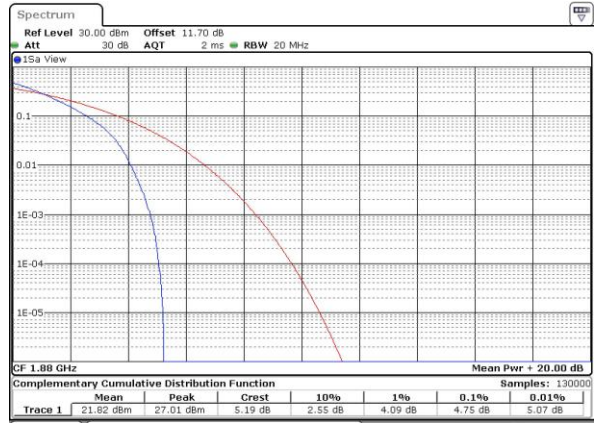
Date: 19 AUG 2018 22:50:32

Middle Channel / 1RB



Date: 19 AUG 2018 22:51:02

Middle Channel / Full RB



Date: 19 AUG 2018 22:51:12

Highest Channel / 1RB



Date: 19 AUG 2018 22:51:42

Highest Channel / Full RB

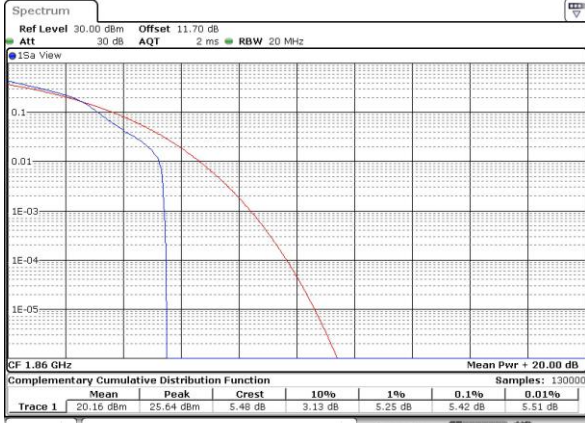


Date: 19 AUG 2018 22:51:52



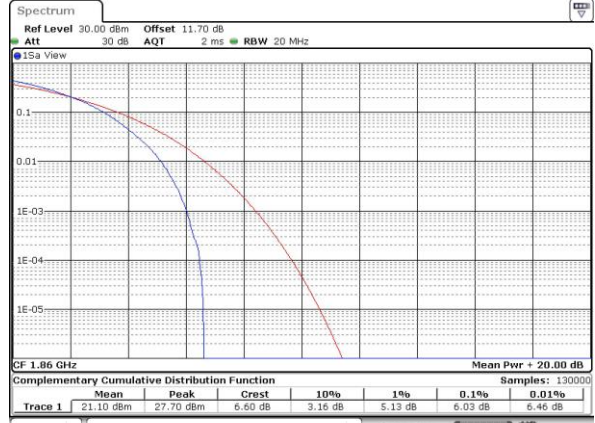
LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



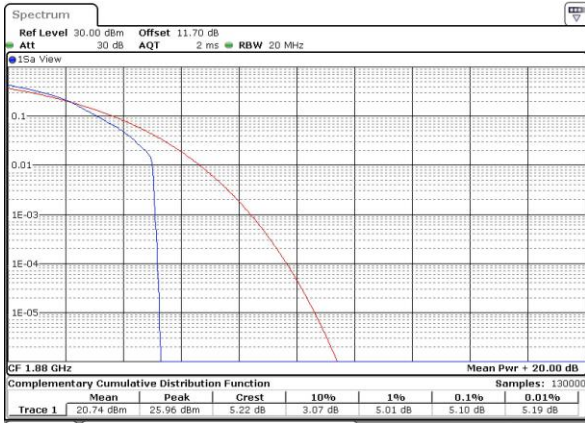
Date: 19 AUG 2018 22:50:03

Lowest Channel / Full RB



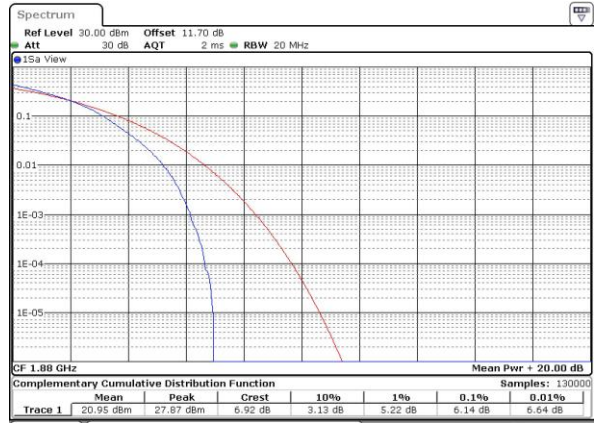
Date: 19 AUG 2018 22:50:13

Middle Channel / 1RB



Date: 19 AUG 2018 22:50:42

Middle Channel / Full RB



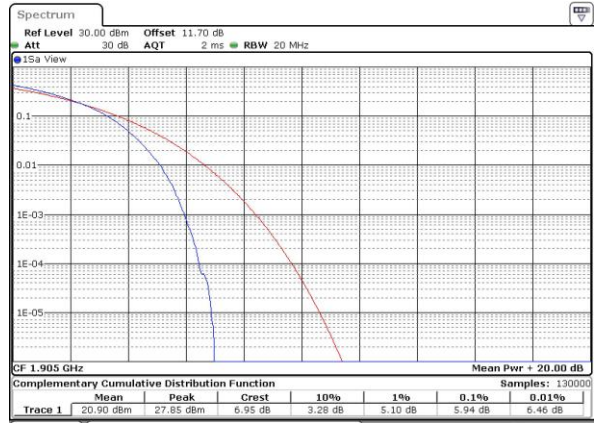
Date: 19 AUG 2018 22:50:52

Highest Channel / 1RB



Date: 19 AUG 2018 22:51:22

Highest Channel / Full RB



Date: 19 AUG 2018 22:51:32



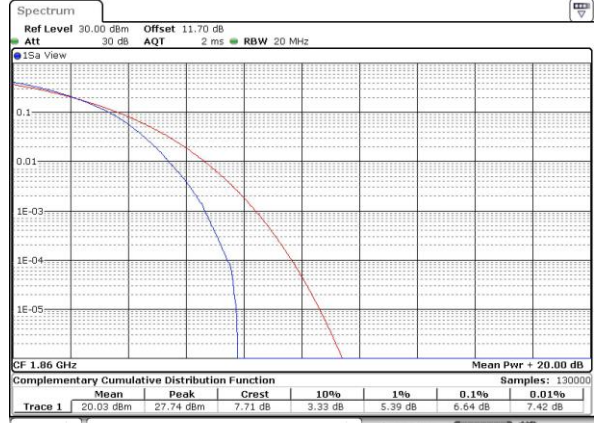
LTE Band 25 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 19 AUG 2018 22:48:47

Lowest Channel / Full RB



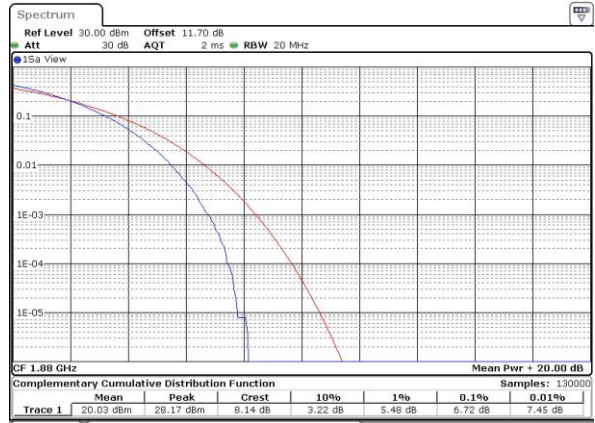
Date: 19 AUG 2018 22:49:13

Middle Channel / 1RB



Date: 19 AUG 2018 22:49:23

Middle Channel / Full RB



Date: 19 AUG 2018 22:49:33

Highest Channel / 1RB



Date: 19 AUG 2018 22:49:43

Highest Channel / Full RB



Date: 19 AUG 2018 22:49:53



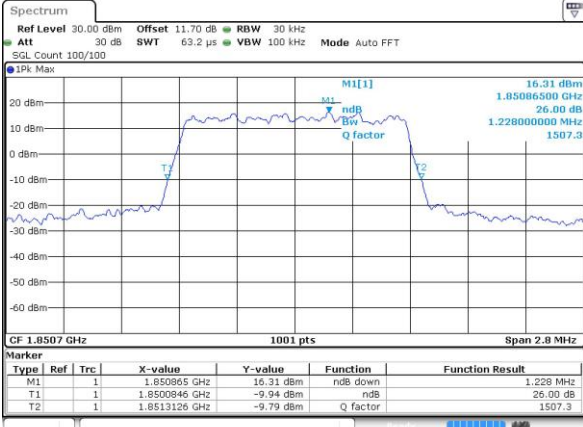
**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.23	1.21	3.02	3.05	4.88	4.90	9.73	9.77	14.30	14.42	20.10	20.22
Middle CH	1.22	1.23	3.00	3.05	4.88	4.94	9.77	9.77	14.54	14.33	20.22	20.22
Highest CH	1.21	1.24	3.01	2.99	4.96	4.90	9.83	9.69	14.33	14.48	20.02	20.18
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.00	-	4.97	-	9.63	-	14.24	-	20.06	-
Middle CH	1.21	-	3.03	-	4.91	-	9.79	-	14.48	-	20.18	-
Highest CH	1.23	-	3.05	-	4.83	-	9.83	-	14.66	-	19.98	-



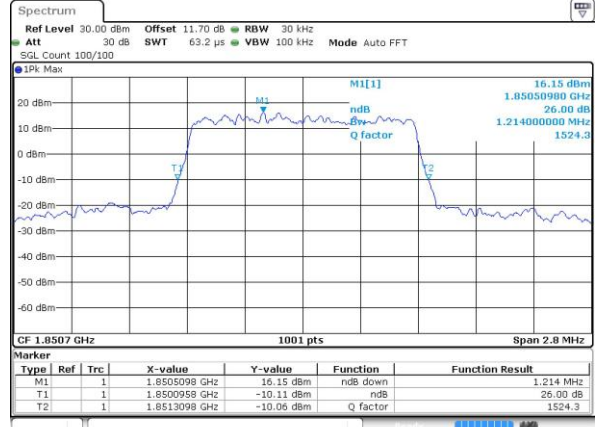
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



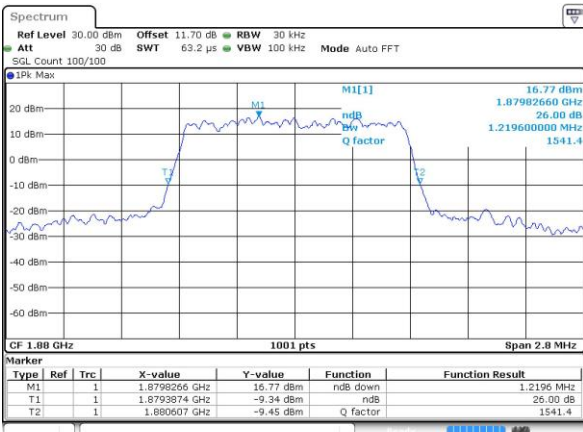
Date: 19 AUG 2018 21:23:23

Lowest Channel / 1.4MHz / 16QAM



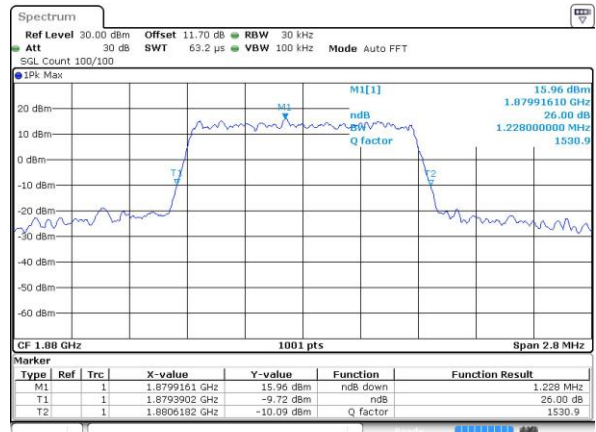
Date: 19 AUG 2018 21:23:34

Middle Channel / 1.4MHz / QPSK



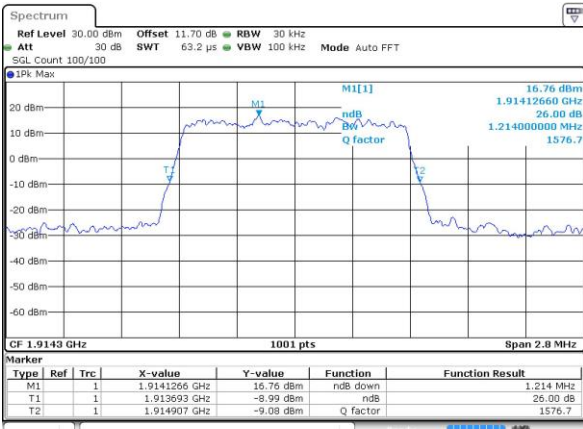
Date: 19 AUG 2018 21:30:21

Middle Channel / 1.4MHz / 16QAM



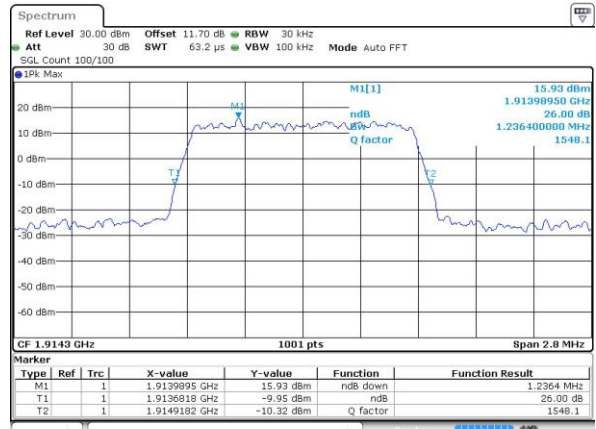
Date: 19 AUG 2018 21:30:32

Highest Channel / 1.4MHz / QPSK



Date: 19 AUG 2018 23:03:13

Highest Channel / 1.4MHz / 16QAM

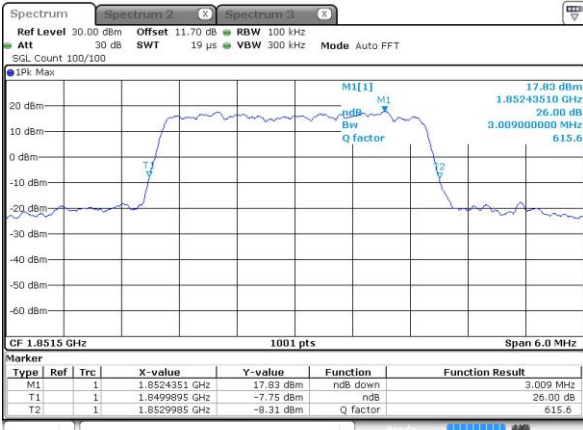


Date: 19 AUG 2018 21:33:07



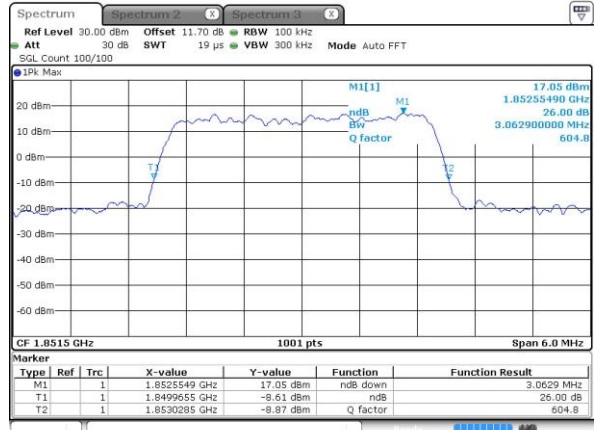
LTE Band 25

Lowest Channel / 3MHz / QPSK



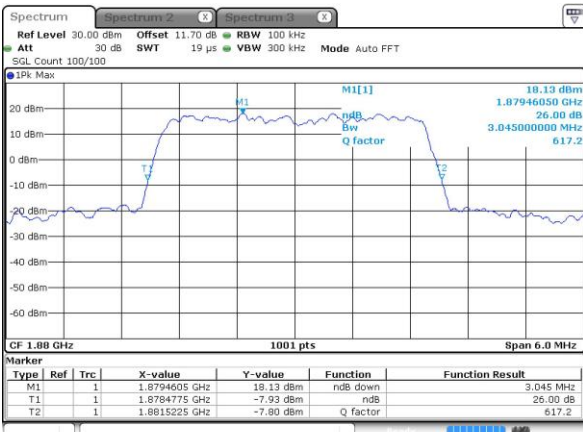
Date: 21 AUG 2018 23:21:02

Lowest Channel / 3MHz / 16QAM



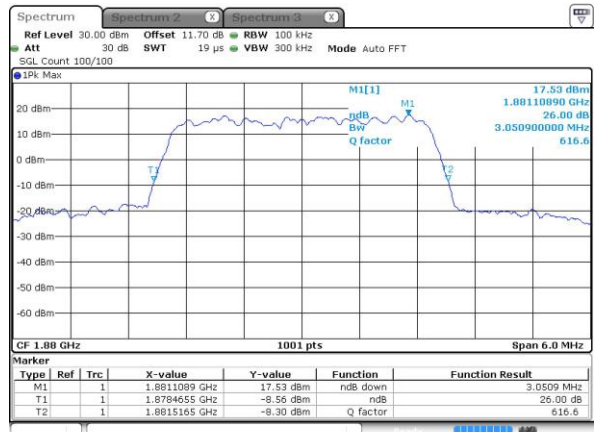
Date: 21 AUG 2018 23:21:14

Middle Channel / 3MHz / QPSK



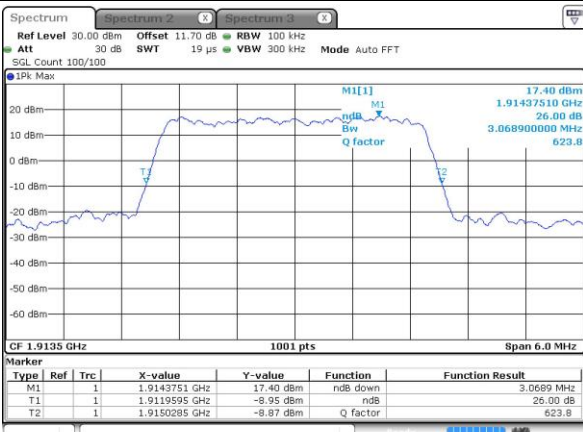
Date: 21 AUG 2018 23:28:29

Middle Channel / 3MHz / 16QAM



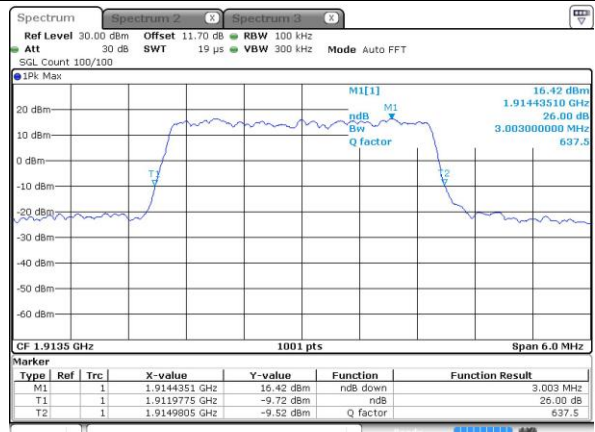
Date: 21 AUG 2018 23:28:41

Highest Channel / 3MHz / QPSK



Date: 21 AUG 2018 23:31:27

Highest Channel / 3MHz / 16QAM



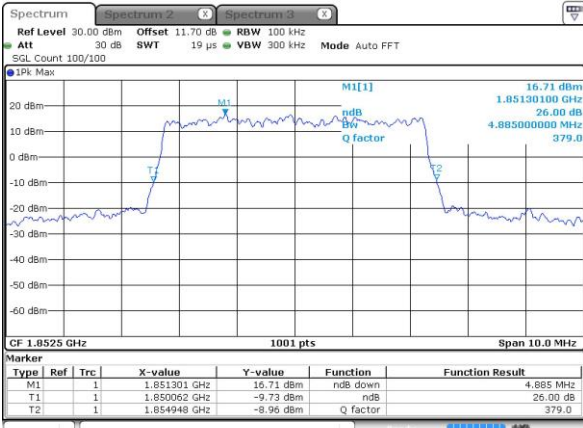
Date: 21 AUG 2018 23:31:16





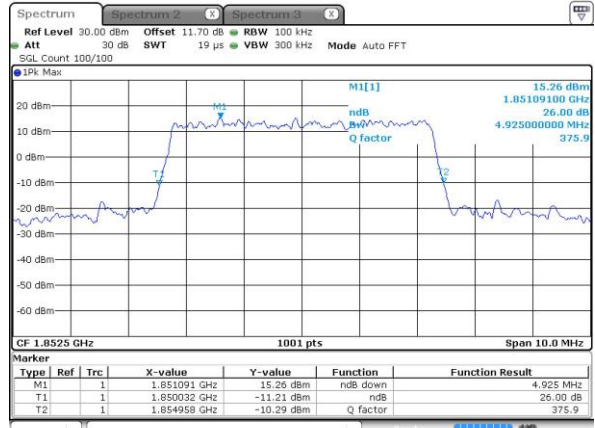
LTE Band 25

Lowest Channel / 5MHz / QPSK



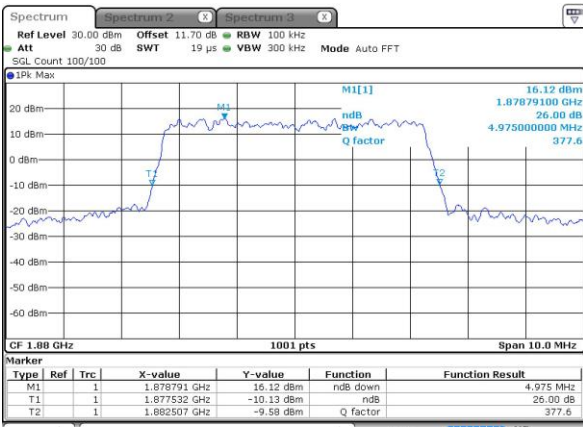
Date: 21 AUG 2018 23:38:43

Lowest Channel / 5MHz / 16QAM



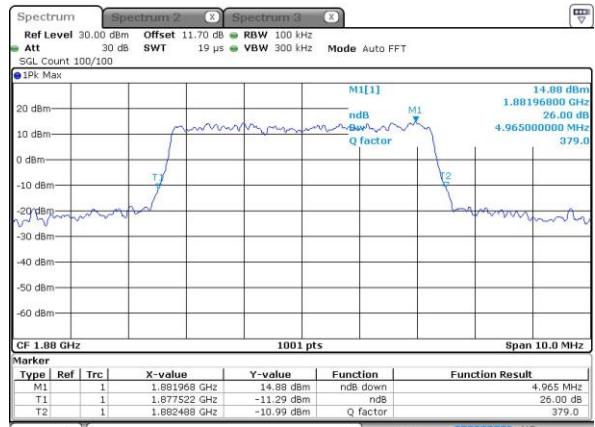
Date: 21 AUG 2018 23:38:55

Middle Channel / 5MHz / QPSK



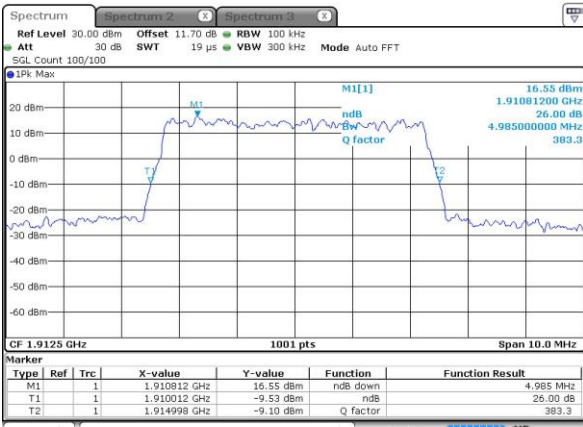
Date: 21 AUG 2018 23:46:11

Middle Channel / 5MHz / 16QAM



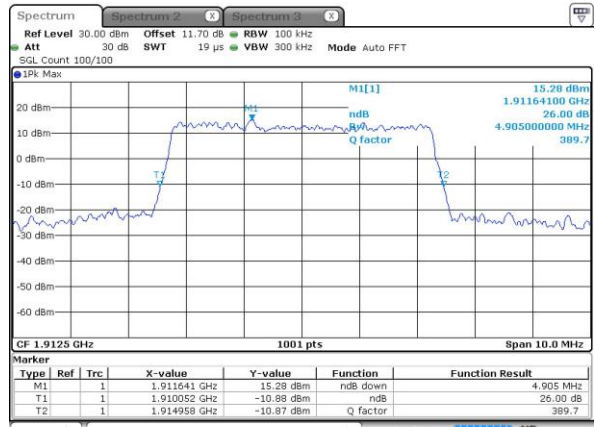
Date: 21 AUG 2018 23:46:22

Highest Channel / 5MHz / QPSK



Date: 21 AUG 2018 23:49:09

Highest Channel / 5MHz / 16QAM

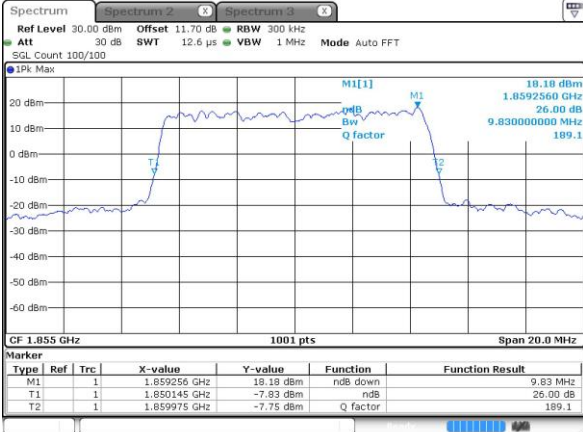


Date: 21 AUG 2018 23:48:58



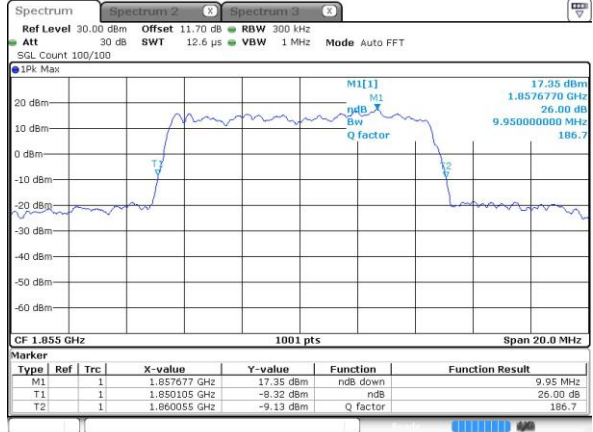
LTE Band 25

Lowest Channel / 10MHz / QPSK



Date: 21 AUG 2018 23:56:26

Lowest Channel / 10MHz / 16QAM



Date: 21 AUG 2018 23:56:37

Middle Channel / 10MHz / QPSK



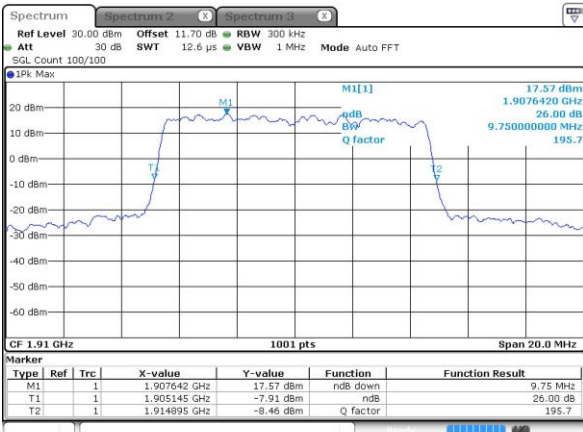
Date: 22 AUG 2018 00:03:53

Middle Channel / 10MHz / 16QAM



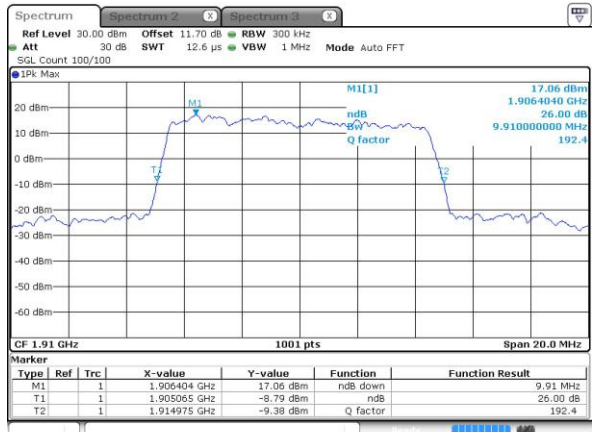
Date: 22 AUG 2018 00:04:05

Highest Channel / 10MHz / QPSK



Date: 22 AUG 2018 00:06:52

Highest Channel / 10MHz / 16QAM

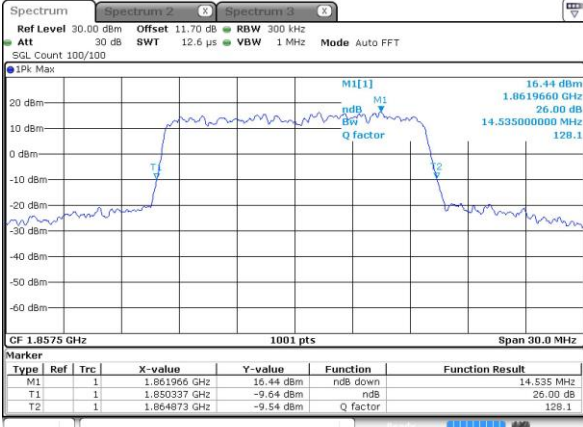


Date: 22 AUG 2018 00:06:41



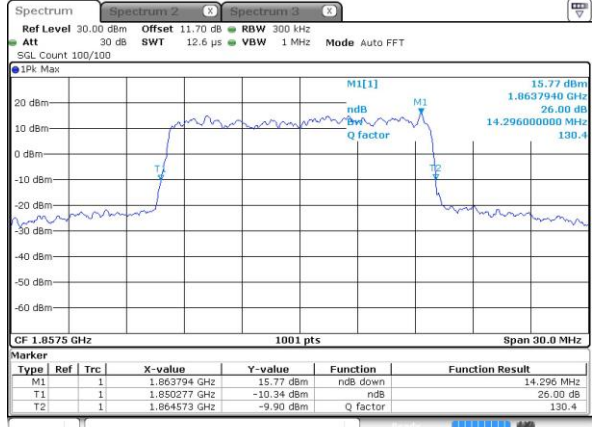
LTE Band 25

Lowest Channel / 15MHz / QPSK



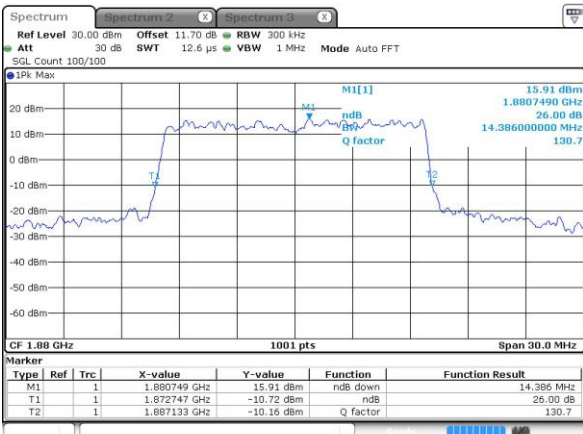
Date: 22 AUG 2018 00:14:08

Lowest Channel / 15MHz / 16QAM



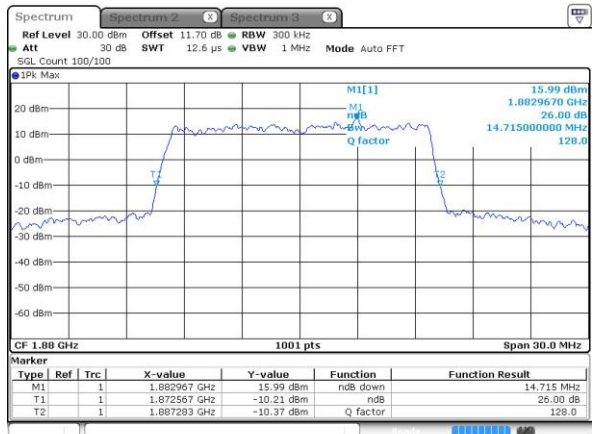
Date: 22 AUG 2018 00:14:20

Middle Channel / 15MHz / QPSK



Date: 22 AUG 2018 00:21:35

Middle Channel / 15MHz / 16QAM



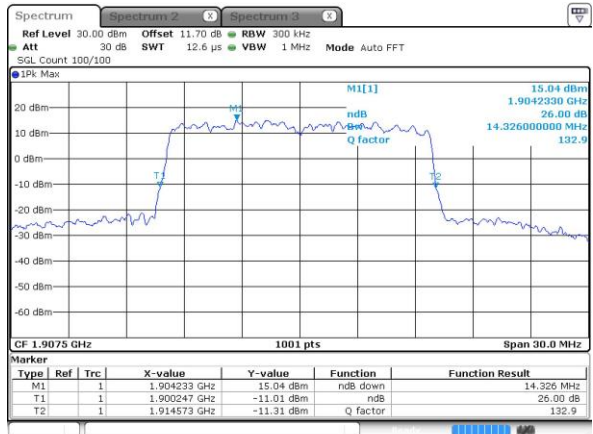
Date: 22 AUG 2018 00:21:47

Highest Channel / 15MHz / QPSK



Date: 22 AUG 2018 00:24:33

Highest Channel / 15MHz / 16QAM



Date: 22 AUG 2018 00:24:22