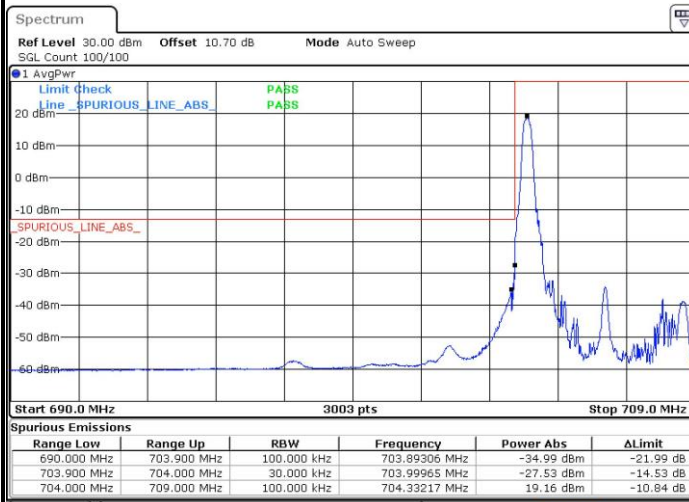




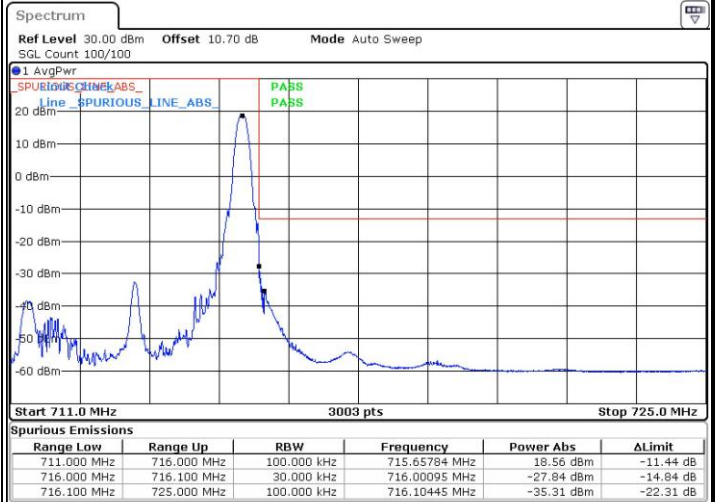
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 13.MAY.2019 17:55:15

Highest Band Edge / 1 RB



Date: 13.MAY.2019 18:03:28

Lowest Band Edge / Full RB



Date: 13.MAY.2019 17:57:16

Highest Band Edge / Full RB

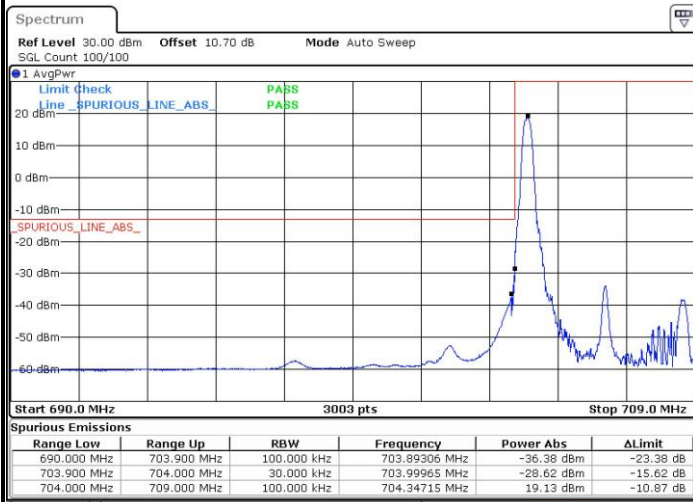


Date: 13.MAY.2019 18:05:29



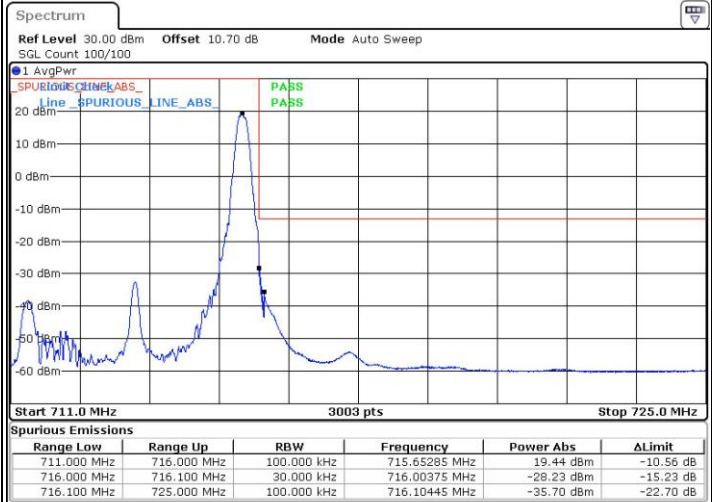
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



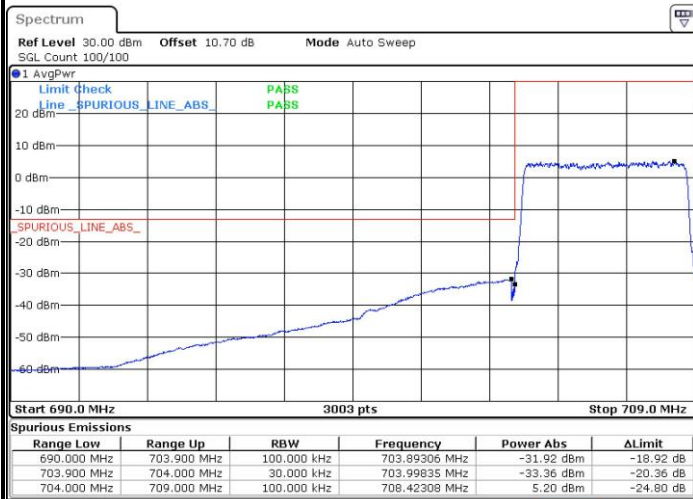
Date: 13.MAY.2019 18:22:32

Highest Band Edge / 1 RB



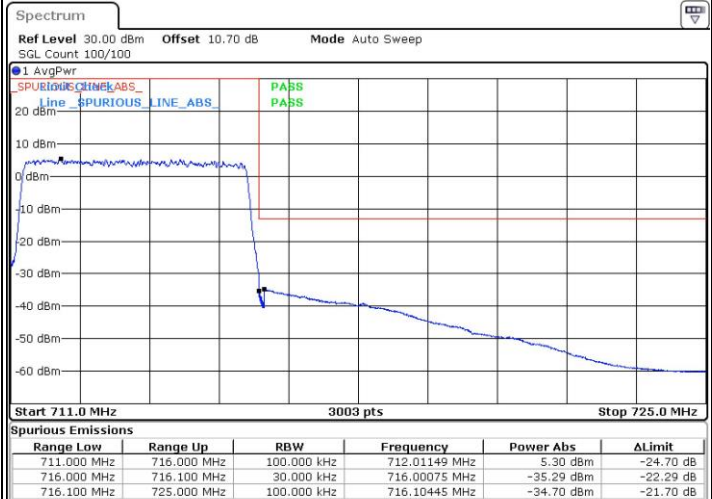
Date: 13.MAY.2019 18:26:39

Lowest Band Edge / Full RB



Date: 13.MAY.2019 18:23:32

Highest Band Edge / Full RB

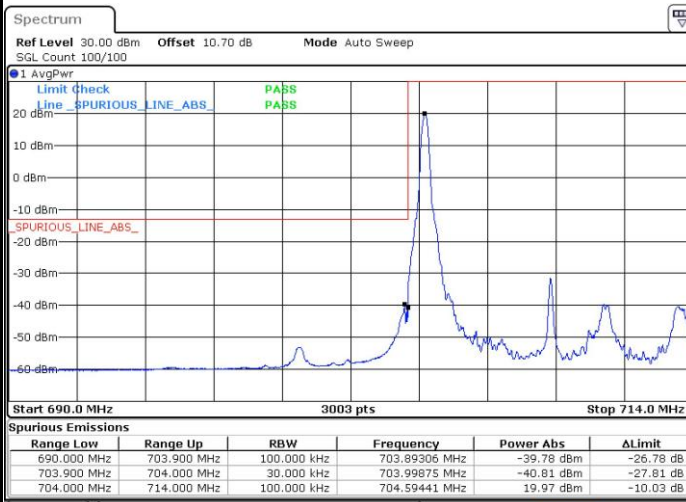


Date: 13.MAY.2019 18:27:39



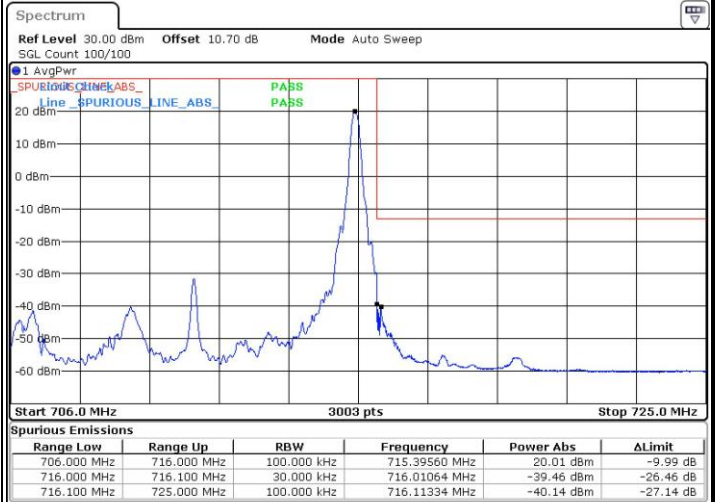
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



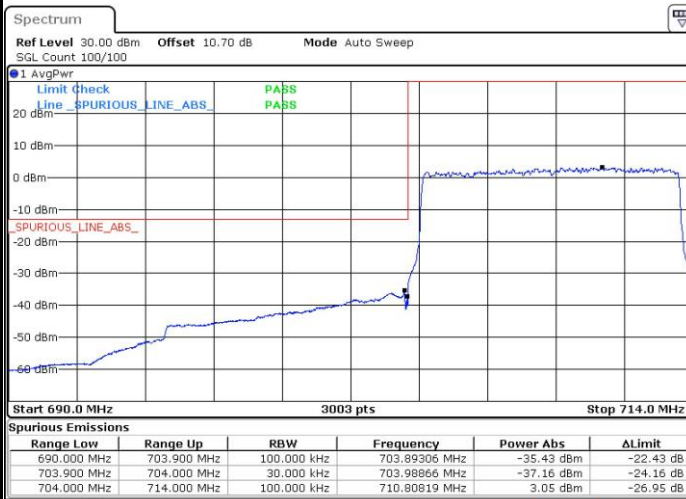
Date: 13.MAY.2019 18:08:35

Highest Band Edge / 1 RB



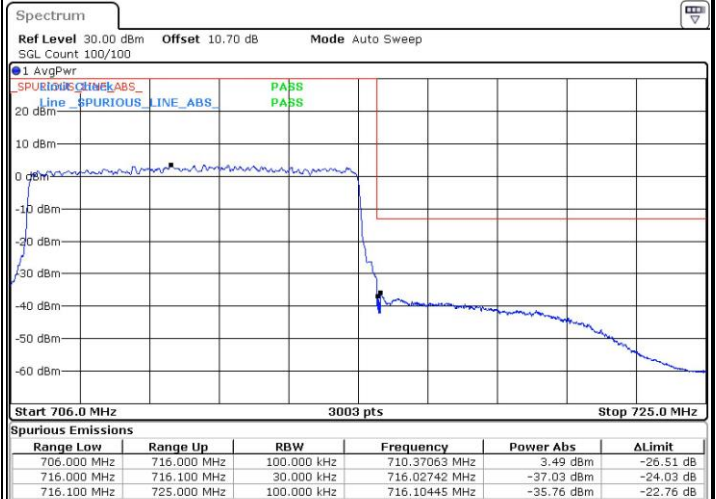
Date: 13.MAY.2019 18:16:48

Lowest Band Edge / Full RB



Date: 13.MAY.2019 18:10:36

Highest Band Edge / Full RB

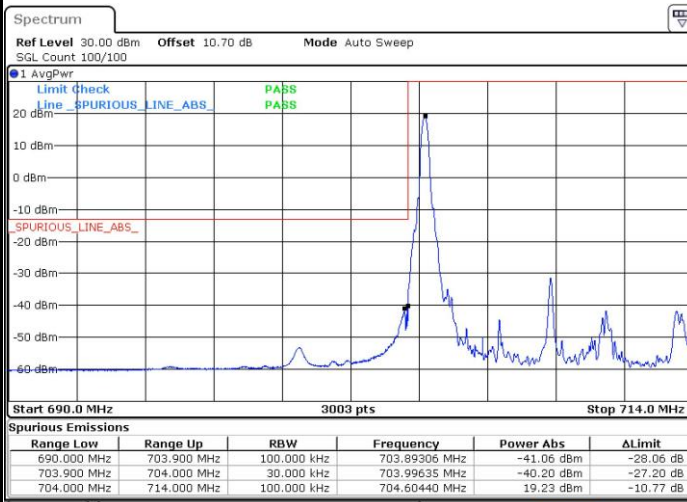


Date: 13.MAY.2019 18:18:49



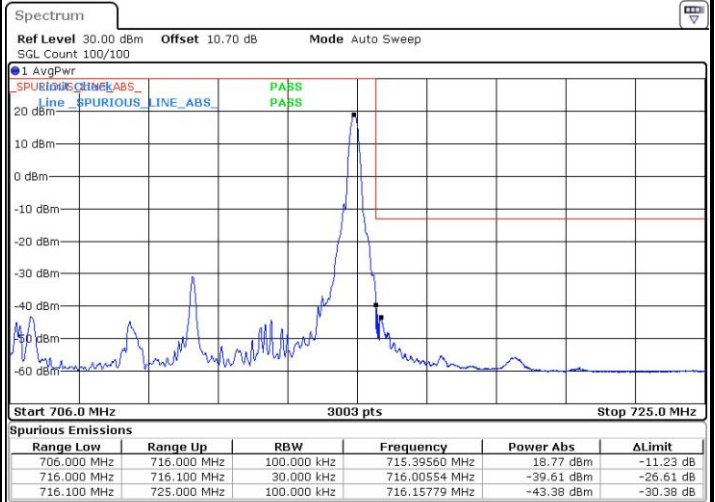
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



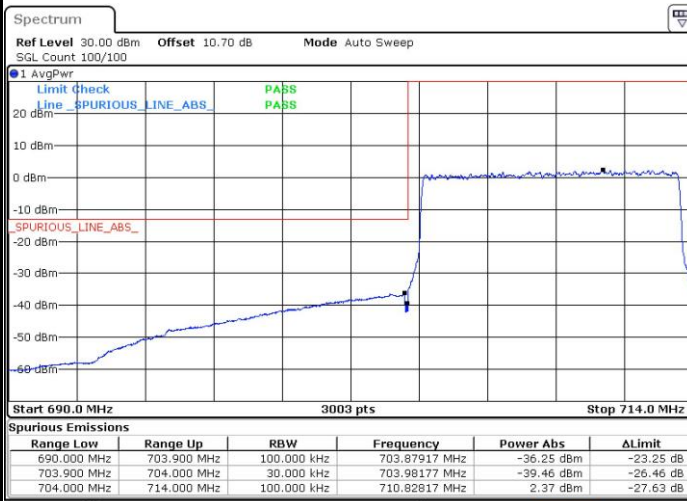
Date: 13.MAY.2019 18:09:35

Highest Band Edge / 1 RB



Date: 13.MAY.2019 18:17:48

Lowest Band Edge / Full RB



Date: 13.MAY.2019 18:11:36

Highest Band Edge / Full RB

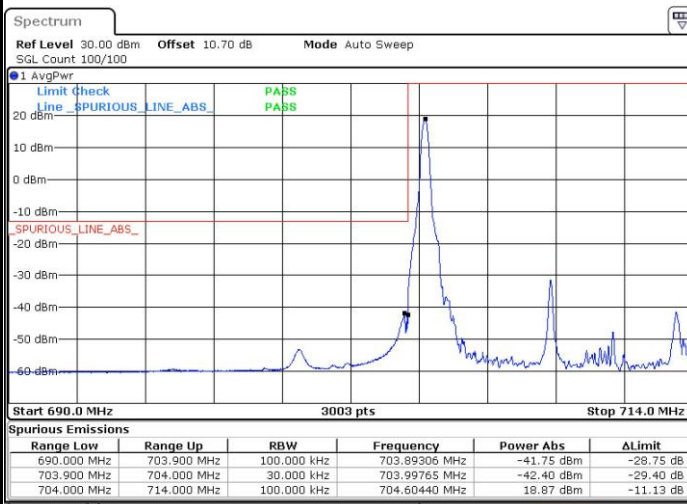


Date: 13.MAY.2019 18:19:49



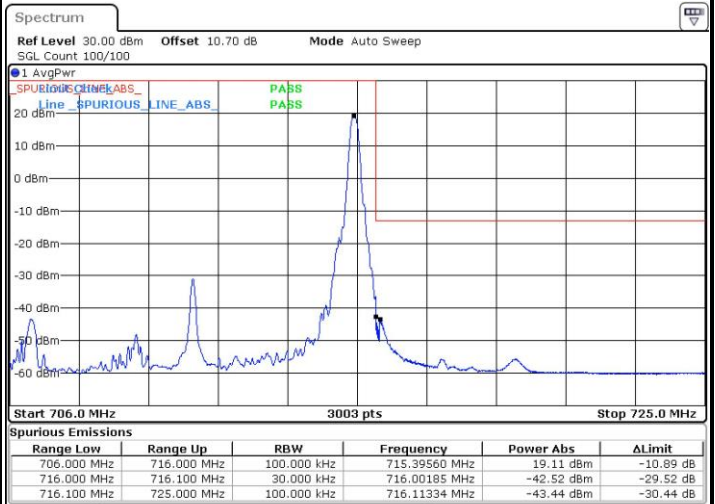
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



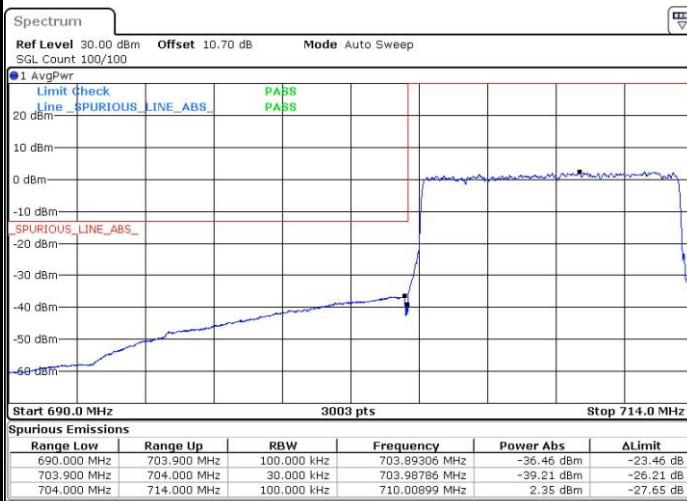
Date: 13.MAY.2019 18:29:42

Highest Band Edge / 1 RB



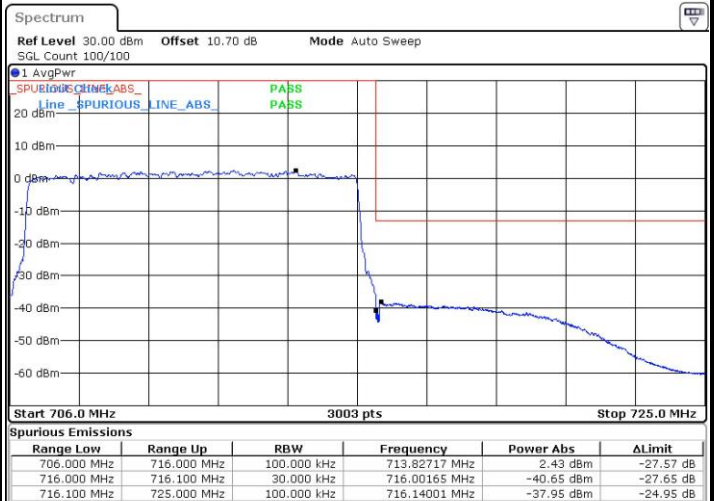
Date: 13.MAY.2019 18:33:49

Lowest Band Edge / Full RB



Date: 13.MAY.2019 18:30:42

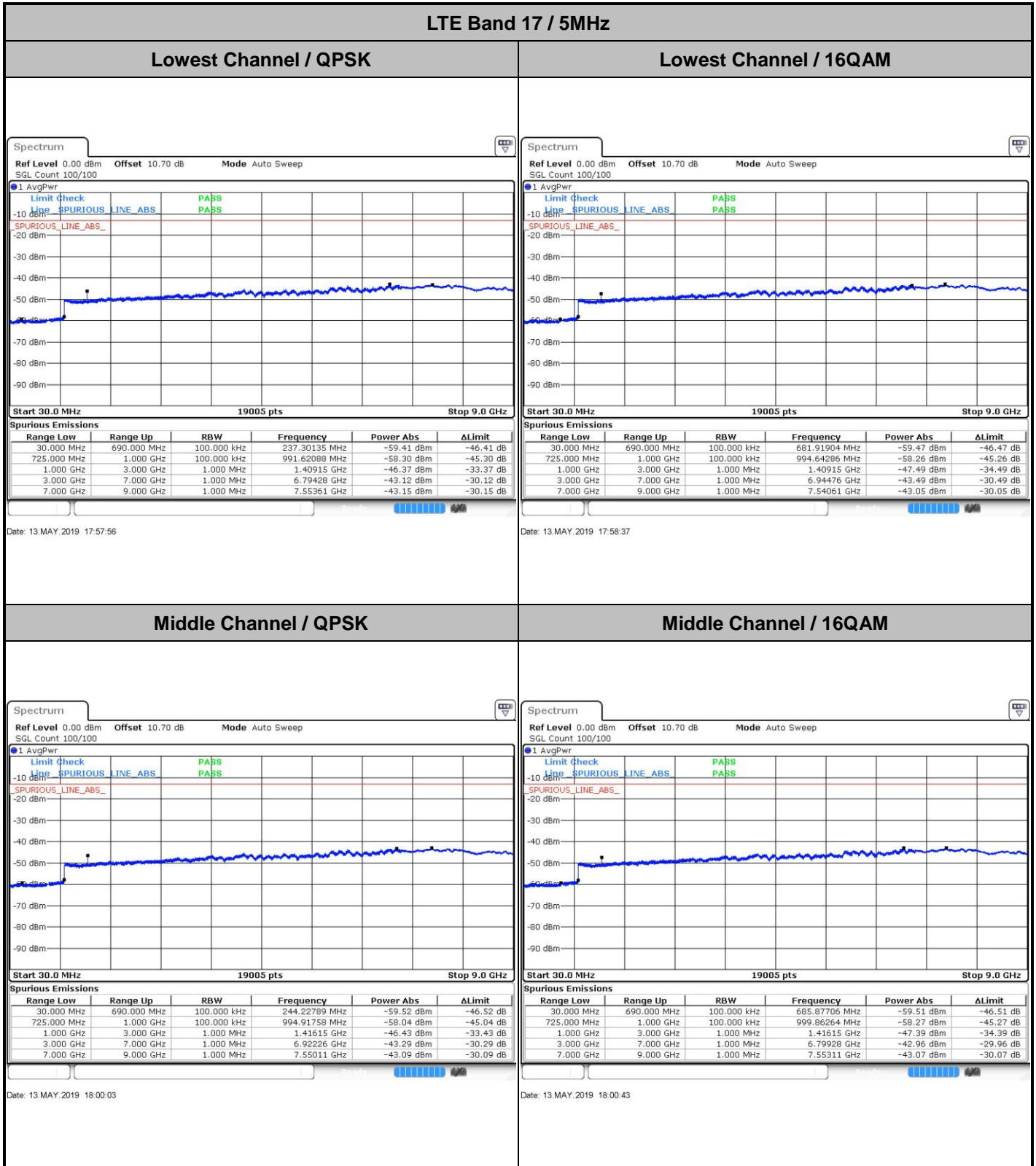
Highest Band Edge / Full RB



Date: 13.MAY.2019 18:34:49



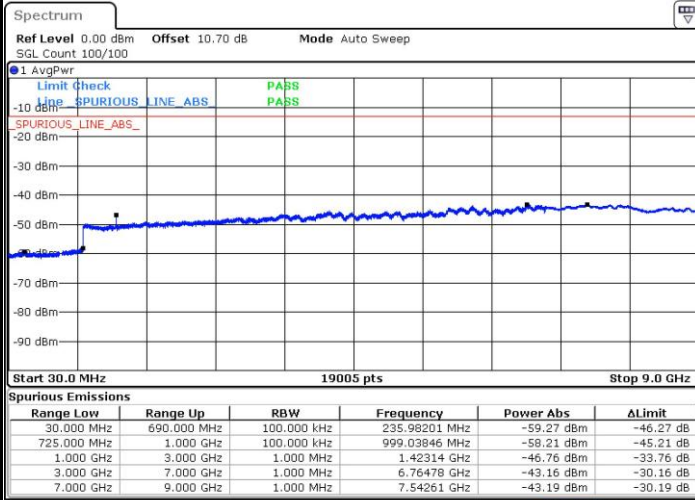
# Conducted Spurious Emission





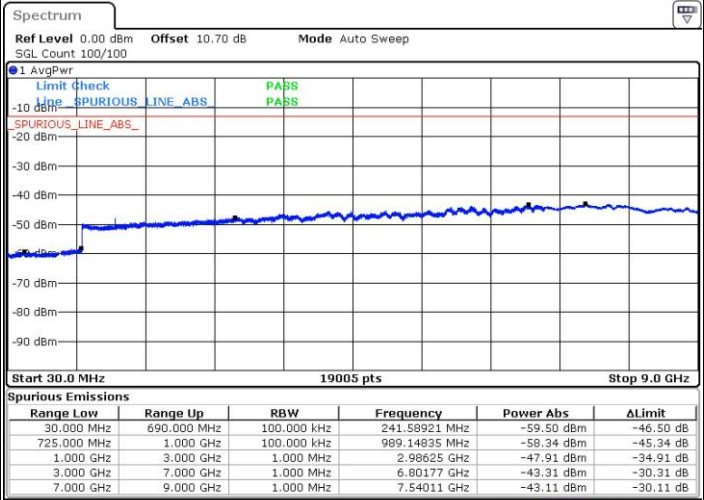
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 13.MAY.2019 18:06:10

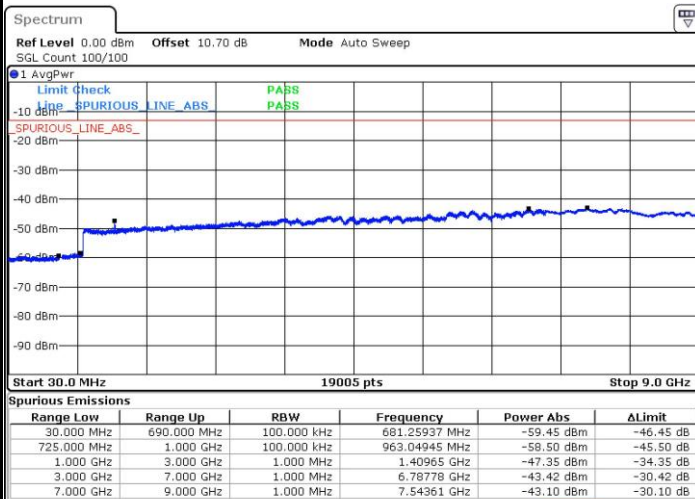
Highest Channel / 16QAM



Date: 13.MAY.2019 18:06:50

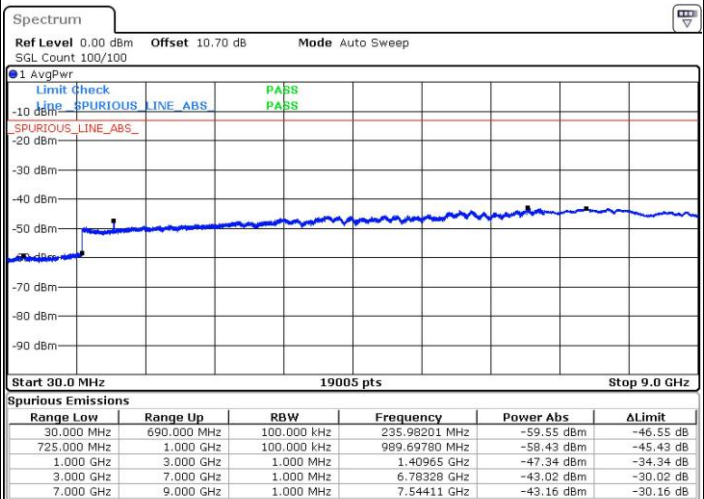
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 13.MAY.2019 18:12:16

Lowest Channel / 16QAM



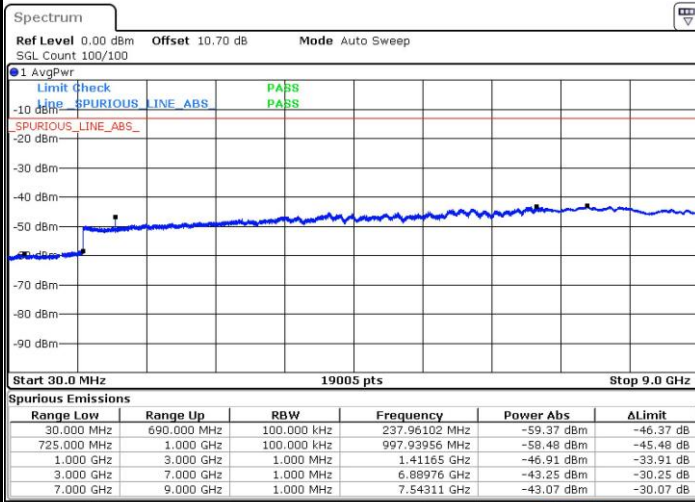
Date: 13.MAY.2019 18:12:57



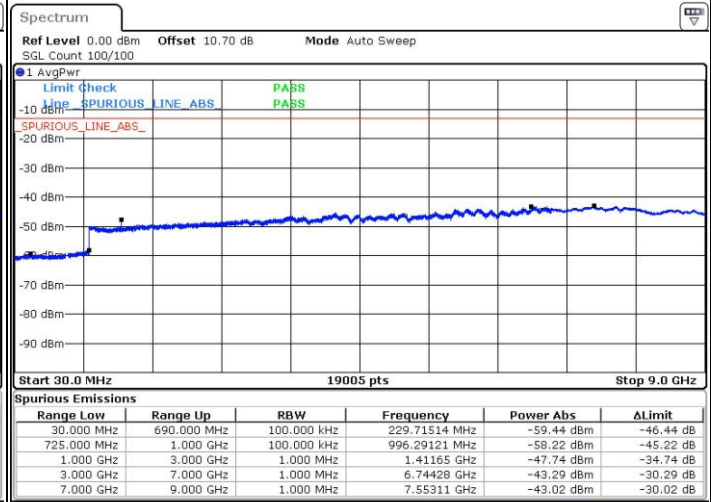
LTE Band 17 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



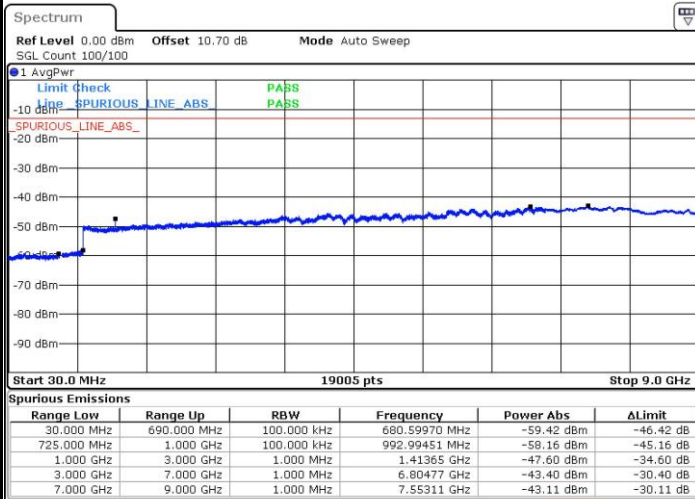
Date: 13.MAY.2019 18:14:23



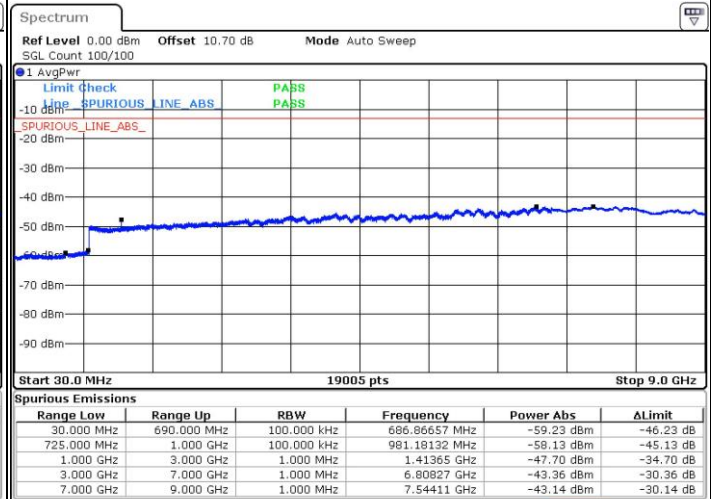
Date: 13.MAY.2019 18:15:03

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.MAY.2019 18:20:29



Date: 13.MAY.2019 18:21:10

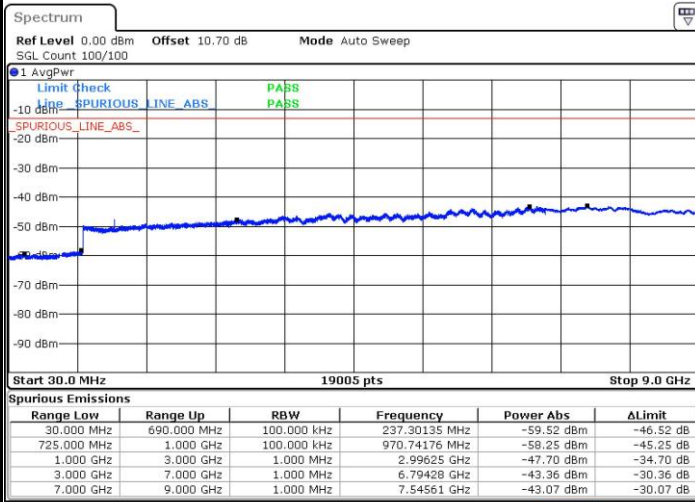




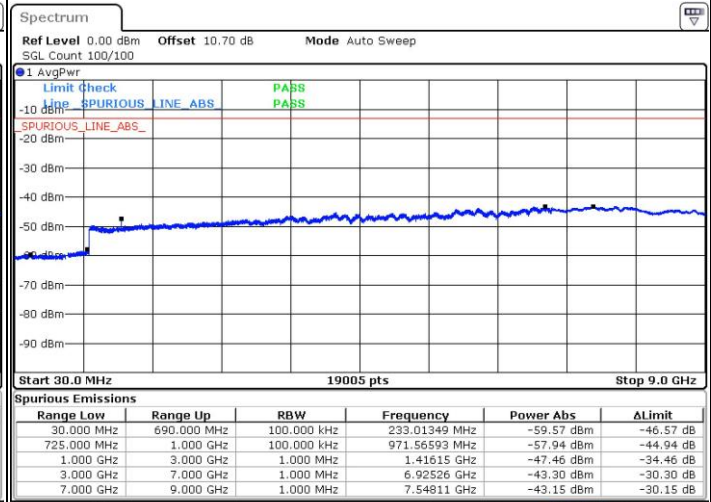
LTE Band 17 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

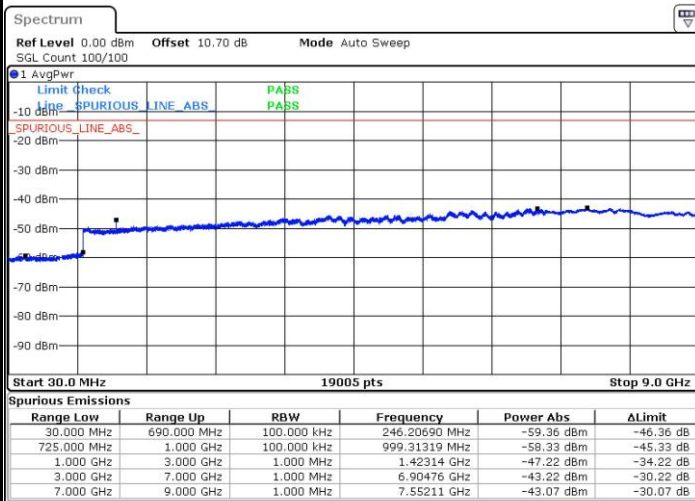


Date: 13.MAY.2019 18:24:13



Date: 13.MAY.2019 18:25:16

Highest Channel / 64QAM



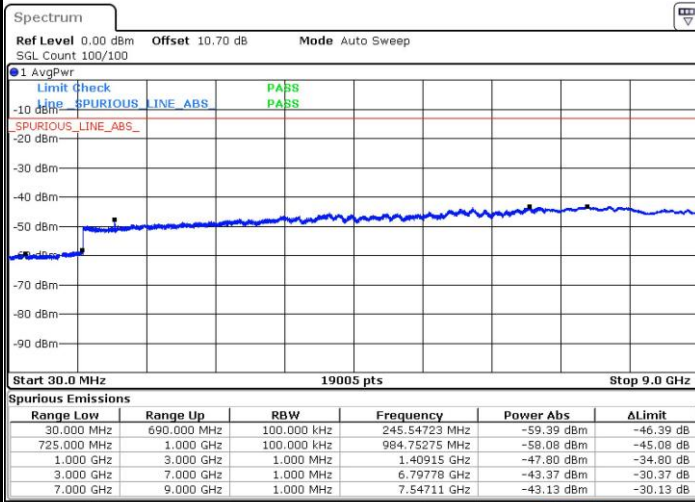
Date: 13.MAY.2019 18:28:20



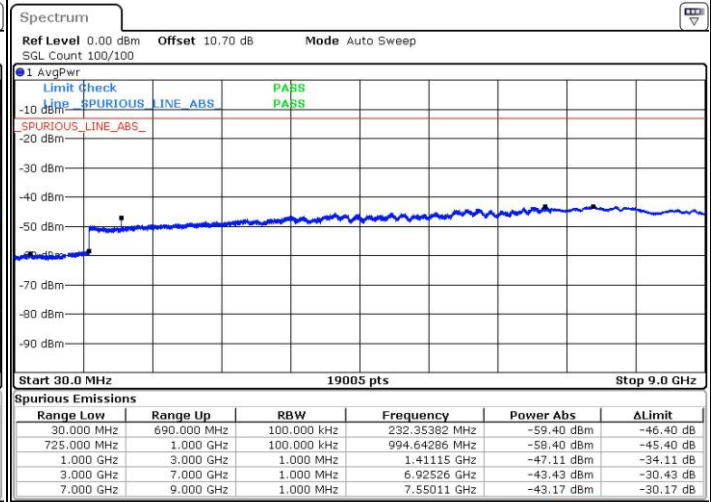
LTE Band 17 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

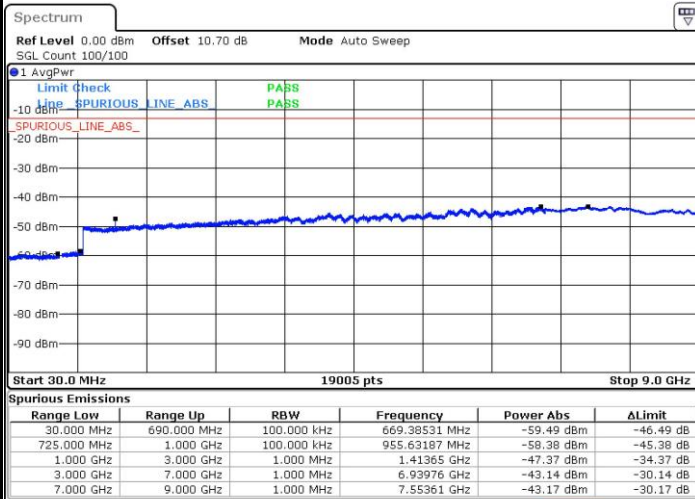


Date: 13.MAY.2019 18:31:23



Date: 13.MAY.2019 18:32:26

Highest Channel / 64QAM



Date: 13.MAY.2019 18:35:30



**Frequency Stability**

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0185	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0159	
-10	Normal Voltage	0.0187	
-20	Normal Voltage	0.0163	
-30	Normal Voltage	0.0165	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

**Note:**

- 1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 38

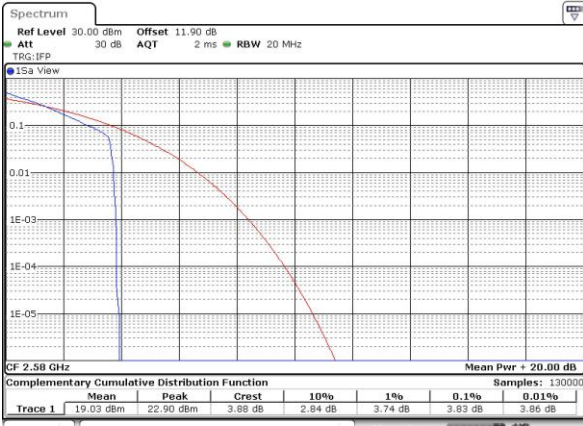
## Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.83	4.72	5.74	6.09	<b>PASS</b>
Middle CH	3.83	4.75	5.59	6.09	
Highest CH	3.91	4.81	5.83	6.14	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.75	6.67	-	-	<b>PASS</b>
Middle CH	6.78	6.67	-	-	
Highest CH	6.84	6.72	-	-	



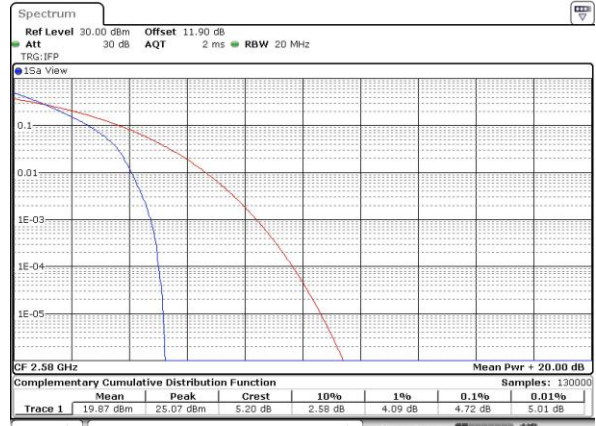
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



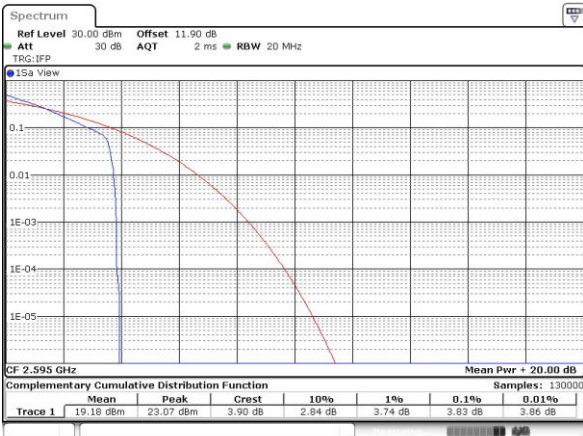
Date: 13 MAY 2019 03:57:34

Lowest Channel / Full RB



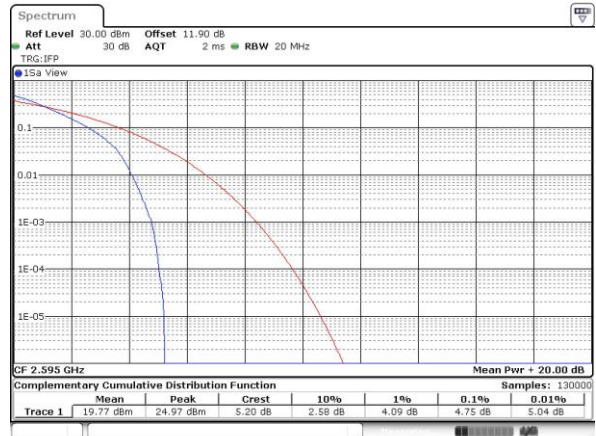
Date: 13 MAY 2019 03:57:49

Middle Channel / 1RB



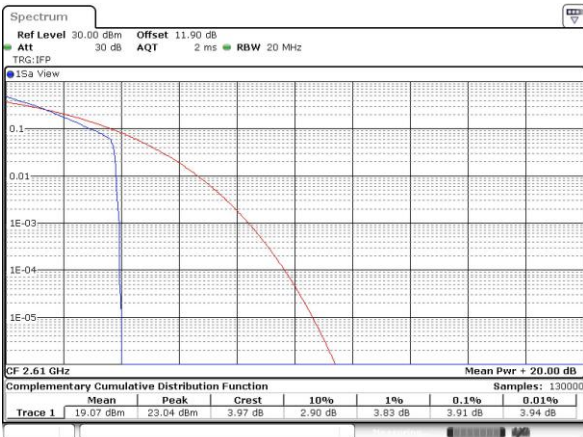
Date: 13 MAY 2019 03:58:05

Middle Channel / Full RB



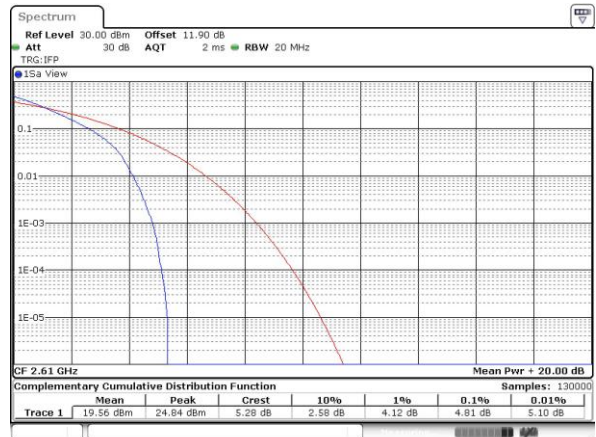
Date: 13 MAY 2019 03:58:20

Highest Channel / 1RB



Date: 13 MAY 2019 03:58:37

Highest Channel / Full RB

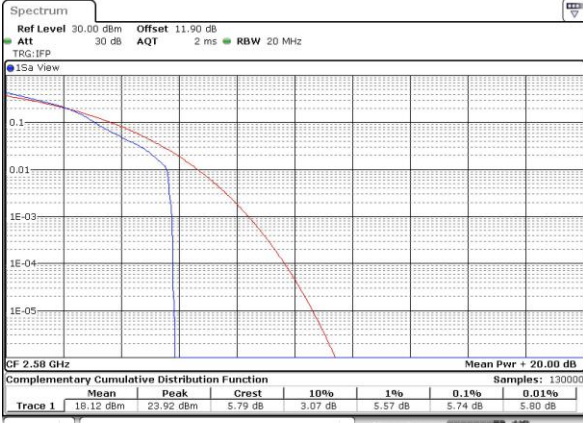


Date: 13 MAY 2019 03:58:53



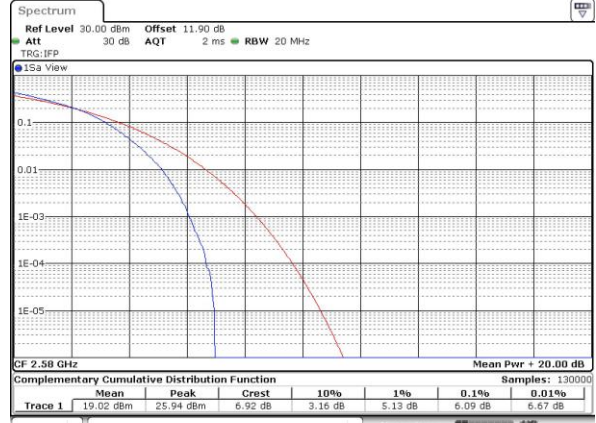
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



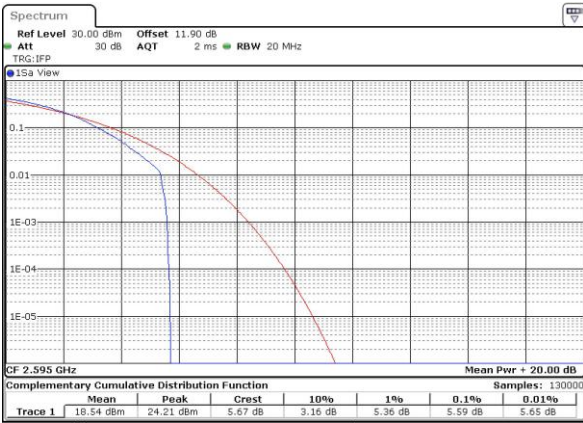
Date: 13 MAY 2019 03:55:56

Lowest Channel / Full RB



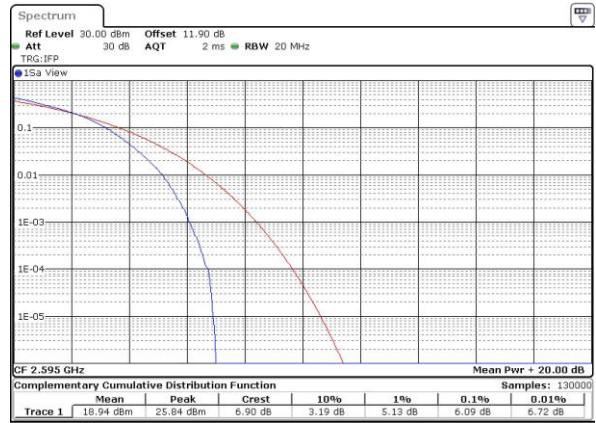
Date: 13 MAY 2019 03:56:12

Middle Channel / 1RB



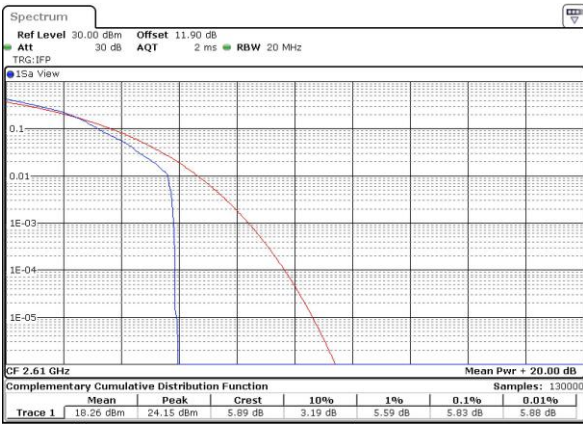
Date: 13 MAY 2019 03:56:29

Middle Channel / Full RB



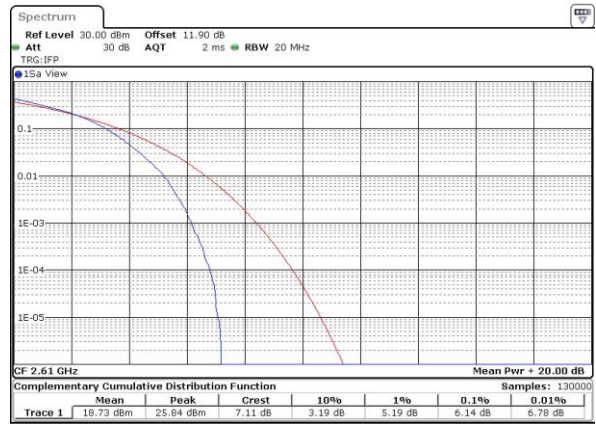
Date: 13 MAY 2019 03:56:45

Highest Channel / 1RB



Date: 13 MAY 2019 03:57:01

Highest Channel / Full RB

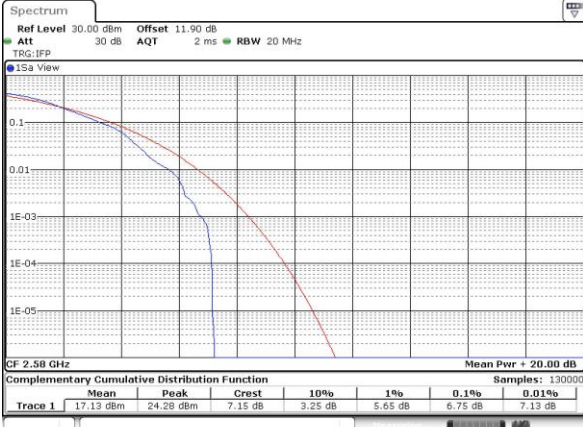


Date: 13 MAY 2019 03:57:17



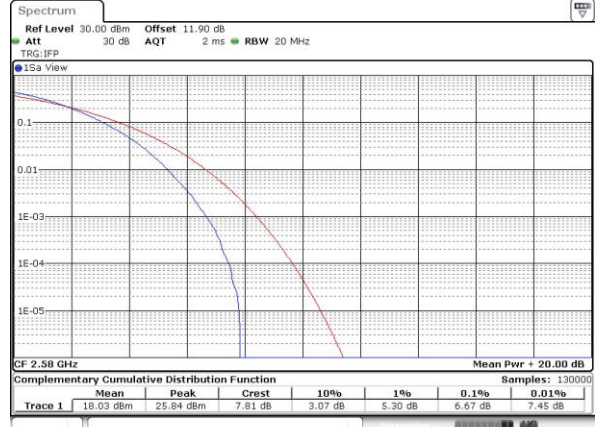
LTE Band 38 / 20MHz / 64QAM

Lowest Channel / 1RB



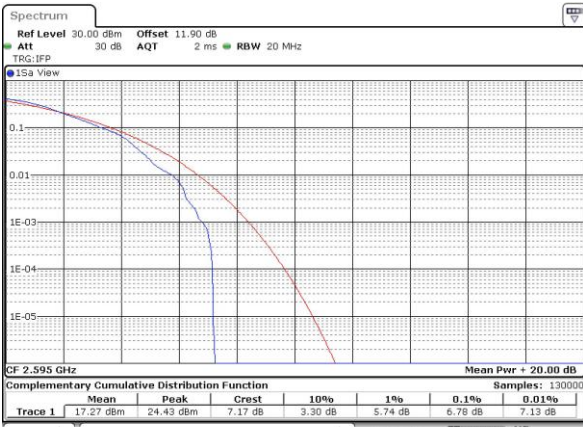
Date: 13 MAY 2019 03:54:15

Lowest Channel / Full RB



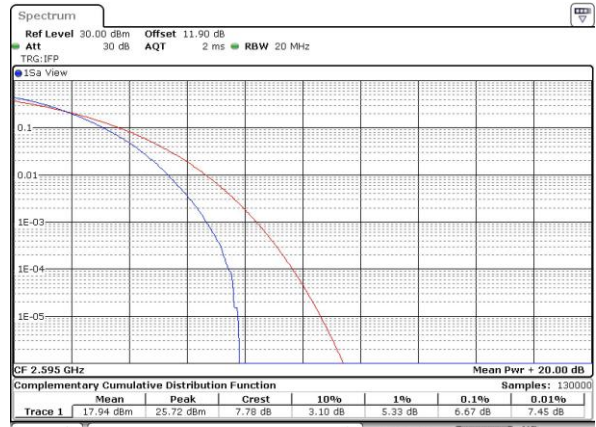
Date: 13 MAY 2019 03:54:31

Middle Channel / 1RB



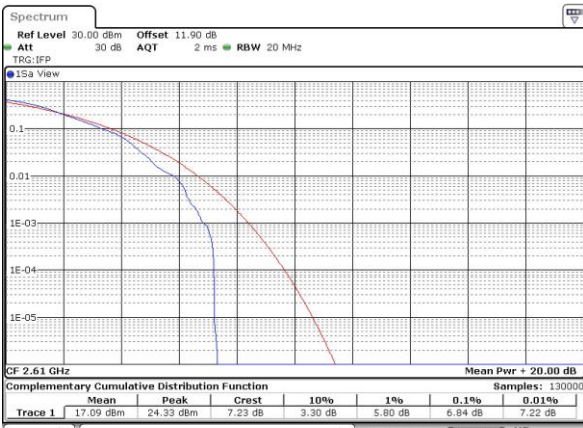
Date: 13 MAY 2019 03:54:50

Middle Channel / Full RB



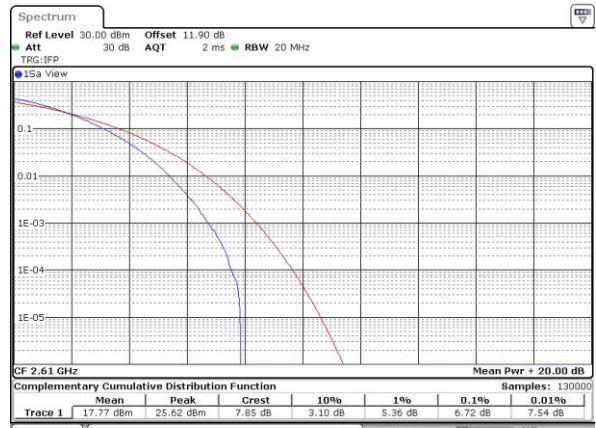
Date: 13 MAY 2019 03:55:05

Highest Channel / 1RB



Date: 13 MAY 2019 03:55:24

Highest Channel / Full RB



Date: 13 MAY 2019 03:55:41



**26dB Bandwidth**

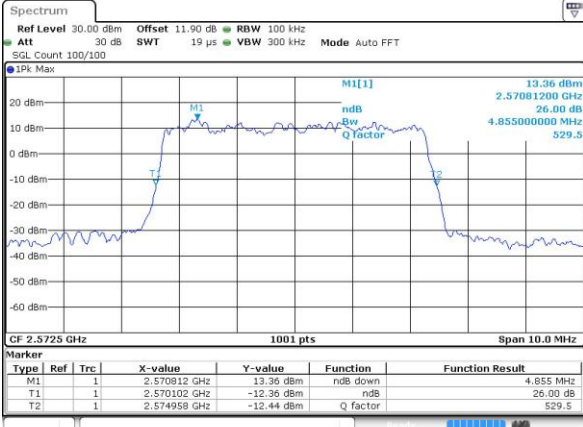
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.86	4.81	9.73	9.63	14.21	14.09	18.66	18.78
Middle CH	-	-	-	-	4.95	4.85	9.79	9.75	14.39	14.24	18.94	19.22
Highest CH	-	-	-	-	4.84	4.94	9.83	9.85	14.30	14.39	18.78	18.82
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.83	-	9.77	-	14.51	-	18.66	-
Middle CH	-	-	-	-	4.83	-	9.77	-	14.24	-	18.66	-
Highest CH	-	-	-	-	4.83	-	9.63	-	14.30	-	18.90	-





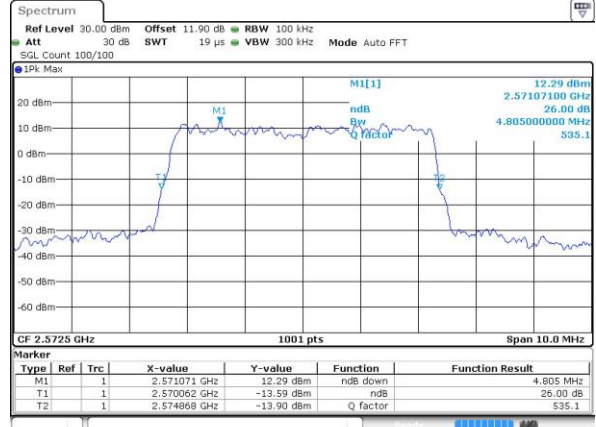
LTE Band 38

Lowest Channel / 5MHz / QPSK



Date: 13 MAY 2019 03:39:38

Lowest Channel / 5MHz / 16QAM



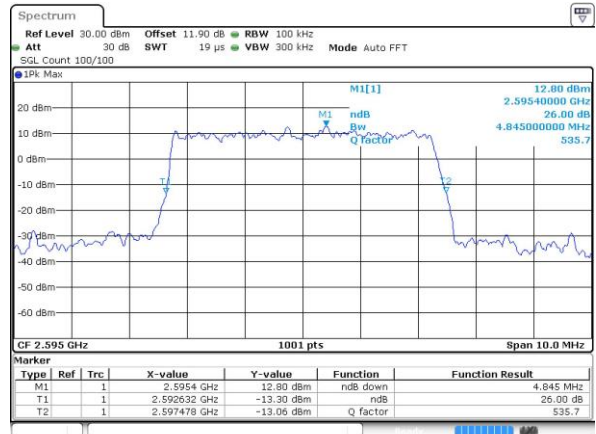
Date: 13 MAY 2019 03:39:51

Middle Channel / 5MHz / QPSK



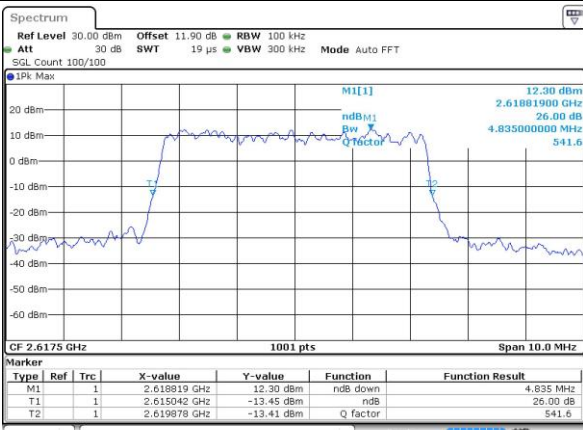
Date: 13 MAY 2019 03:40:26

Middle Channel / 5MHz / 16QAM



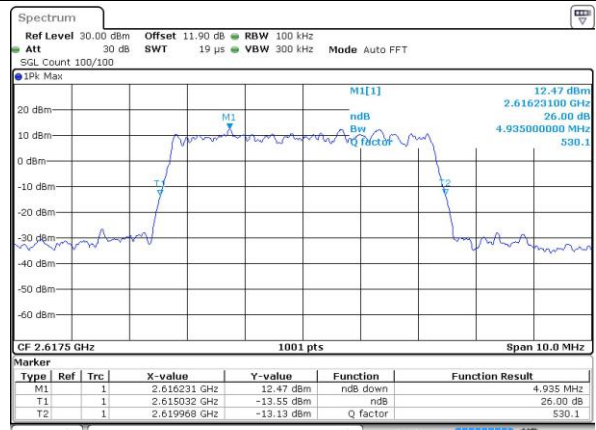
Date: 13 MAY 2019 03:40:38

Highest Channel / 5MHz / QPSK



Date: 13 MAY 2019 03:41:16

Highest Channel / 5MHz / 16QAM

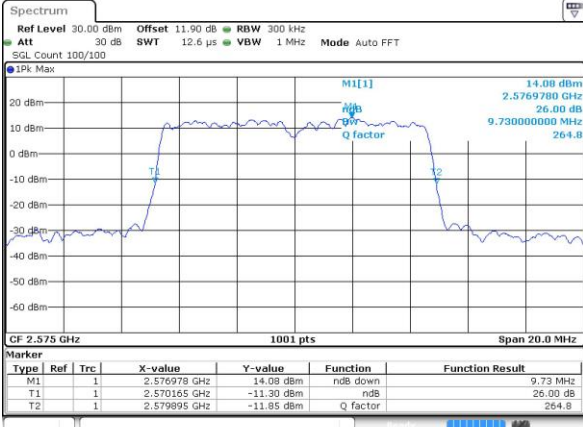


Date: 13 MAY 2019 03:41:28



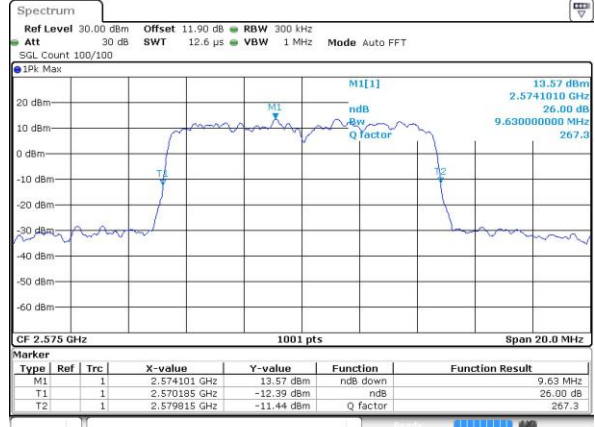
LTE Band 38

Lowest Channel / 10MHz / QPSK



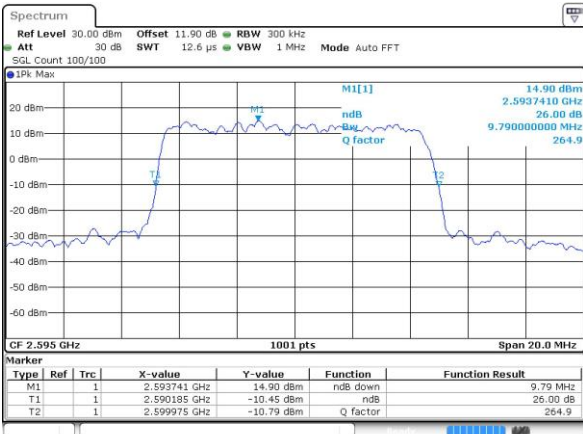
Date: 13 MAY 2019 03:42:06

Lowest Channel / 10MHz / 16QAM



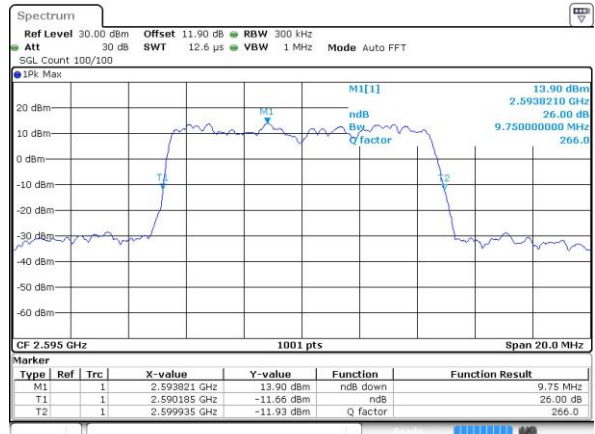
Date: 13 MAY 2019 03:42:19

Middle Channel / 10MHz / QPSK



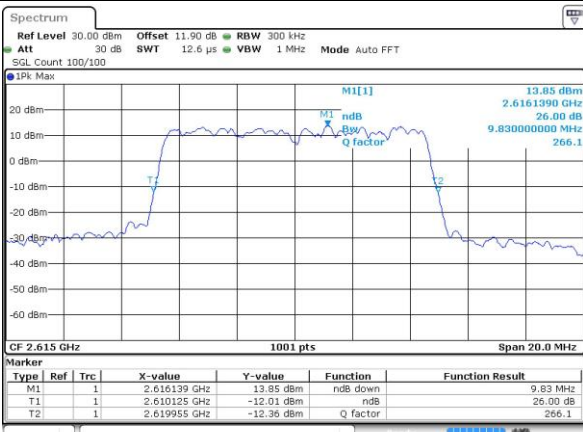
Date: 13 MAY 2019 03:42:55

Middle Channel / 10MHz / 16QAM



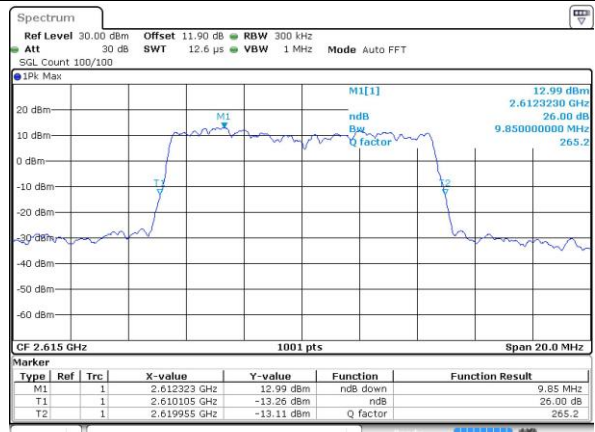
Date: 13 MAY 2019 03:43:07

Highest Channel / 10MHz / QPSK



Date: 13 MAY 2019 03:43:44

Highest Channel / 10MHz / 16QAM

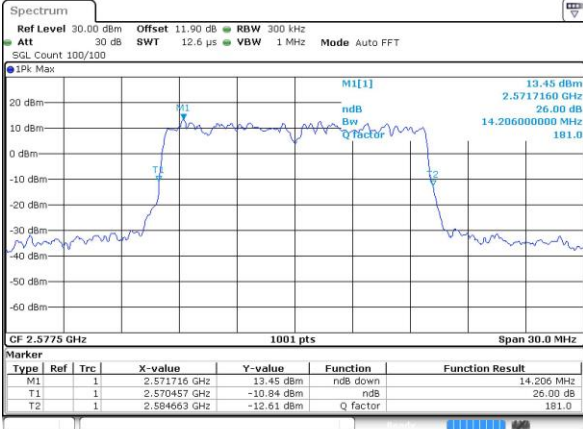


Date: 13 MAY 2019 03:43:56



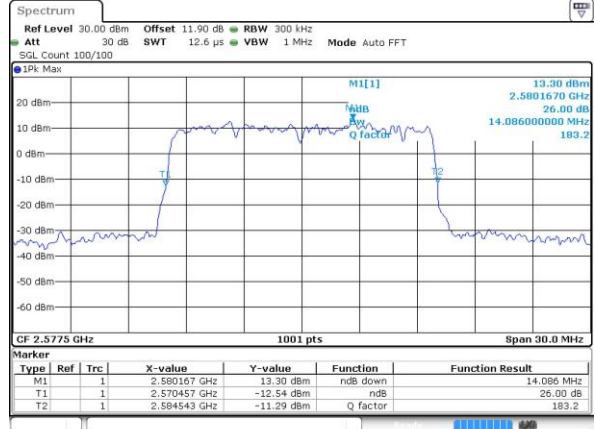
LTE Band 38

Lowest Channel / 15MHz / QPSK



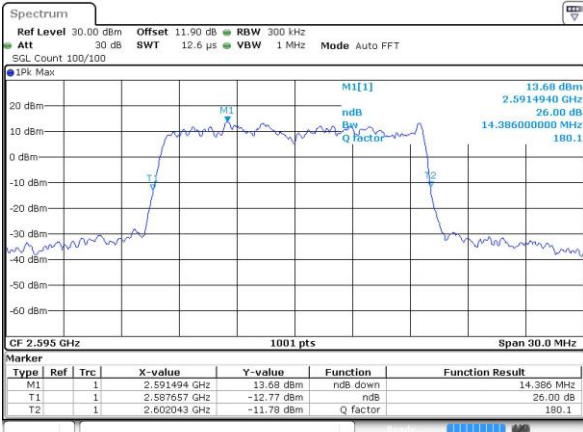
Date: 13 MAY 2019 03:44:34

Lowest Channel / 15MHz / 16QAM



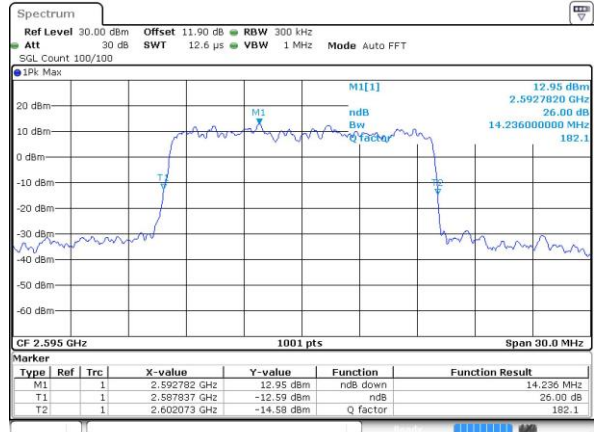
Date: 13 MAY 2019 03:44:46

Middle Channel / 15MHz / QPSK



Date: 13 MAY 2019 03:45:22

Middle Channel / 15MHz / 16QAM



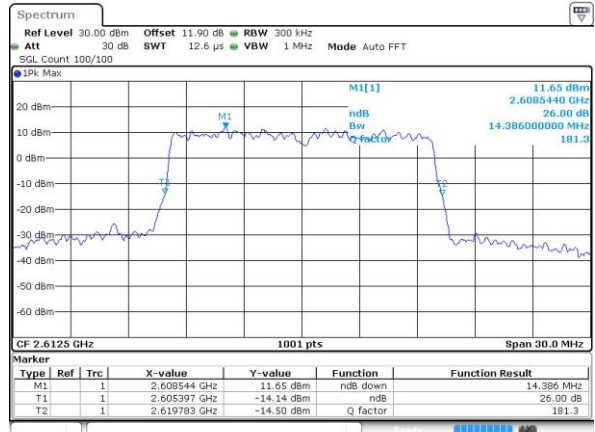
Date: 13 MAY 2019 03:45:34

Highest Channel / 15MHz / QPSK



Date: 13 MAY 2019 03:46:12

Highest Channel / 15MHz / 16QAM

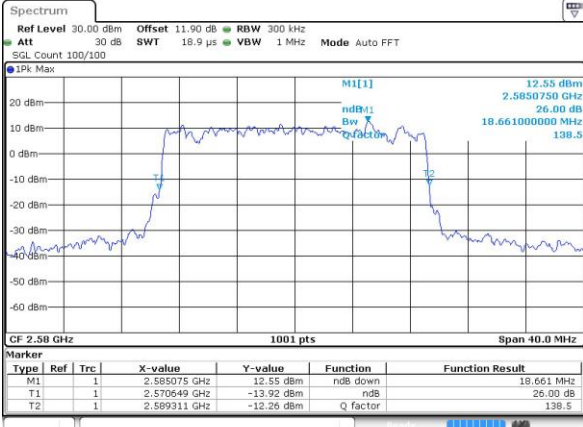


Date: 13 MAY 2019 03:46:24



LTE Band 38

Lowest Channel / 20MHz / QPSK



Date: 13 MAY 2019 03:47:02

Lowest Channel / 20MHz / 16QAM



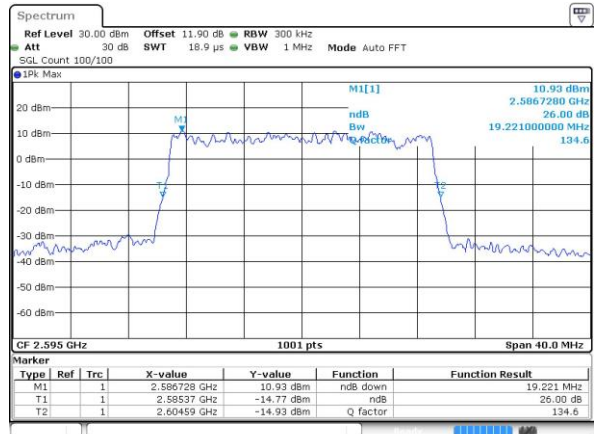
Date: 13 MAY 2019 03:47:15

Middle Channel / 20MHz / QPSK



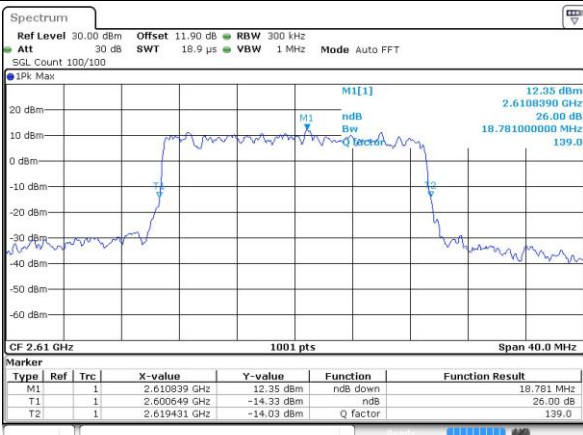
Date: 13 MAY 2019 03:47:50

Middle Channel / 20MHz / 16QAM



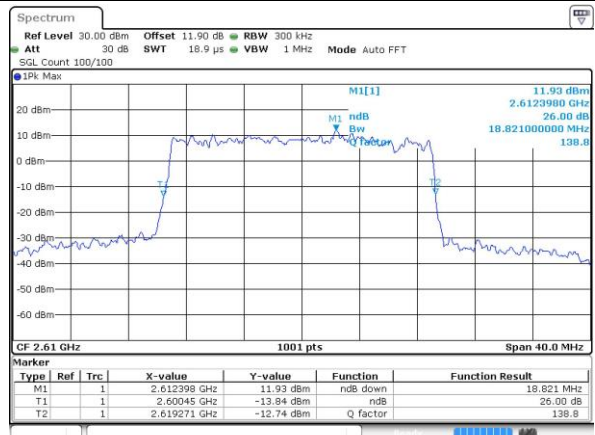
Date: 13 MAY 2019 03:48:03

Highest Channel / 20MHz / QPSK



Date: 13 MAY 2019 03:48:40

Highest Channel / 20MHz / 16QAM



Date: 13 MAY 2019 03:48:52