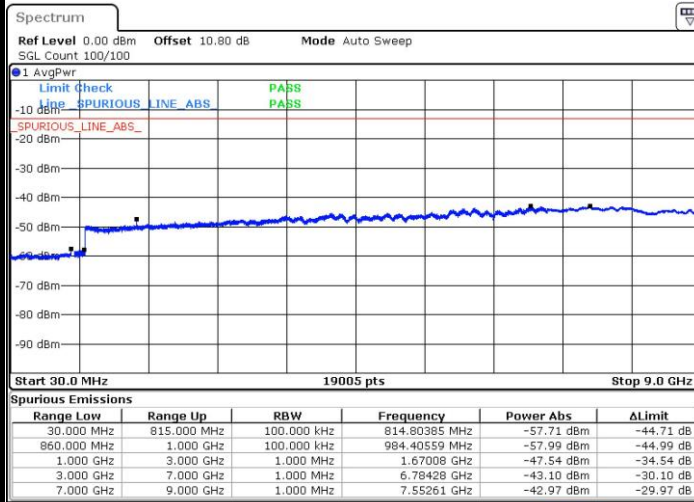




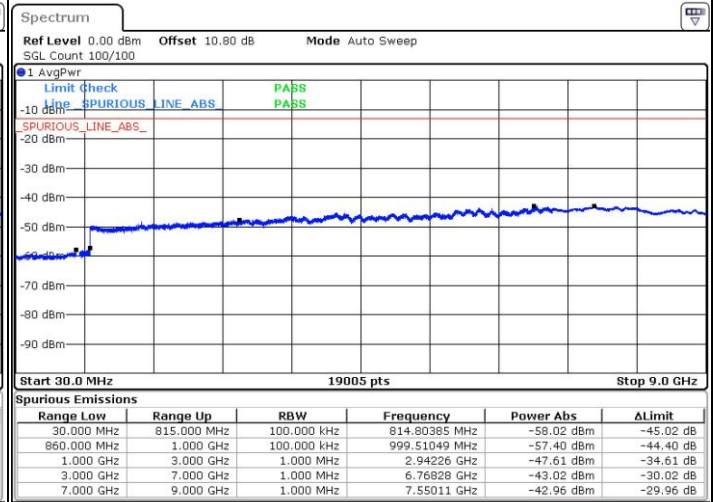
LTE Band 26 / 15MHz

Highest Channel / QPSK



Date: 22 MAR 2019 23:58:45

Highest Channel / 16QAM

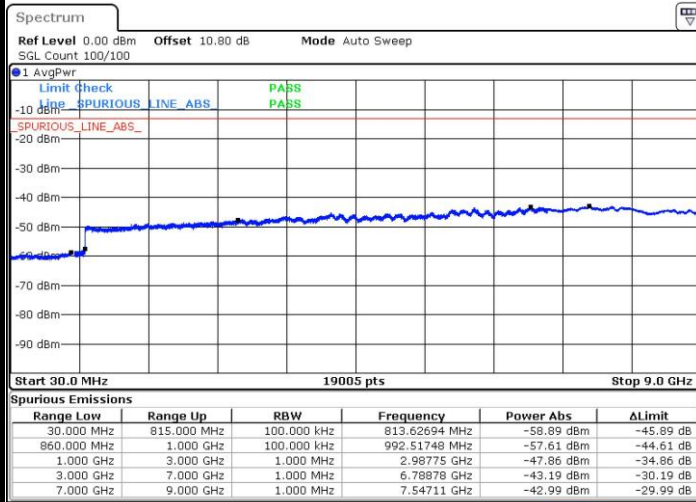


Date: 22 MAR 2019 23:59:36



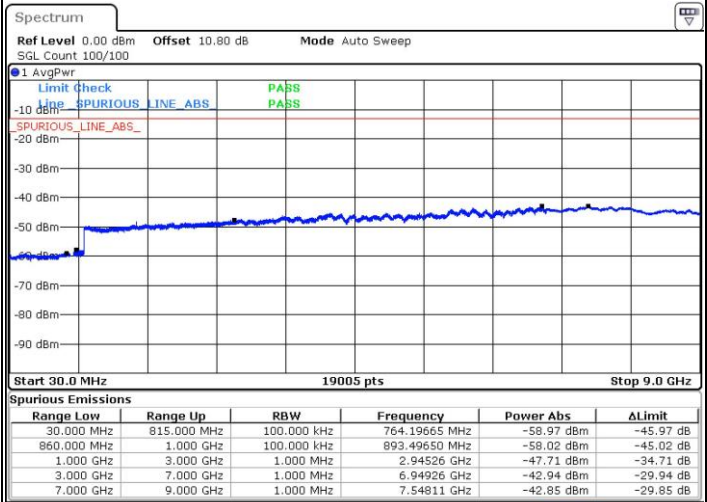
LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM



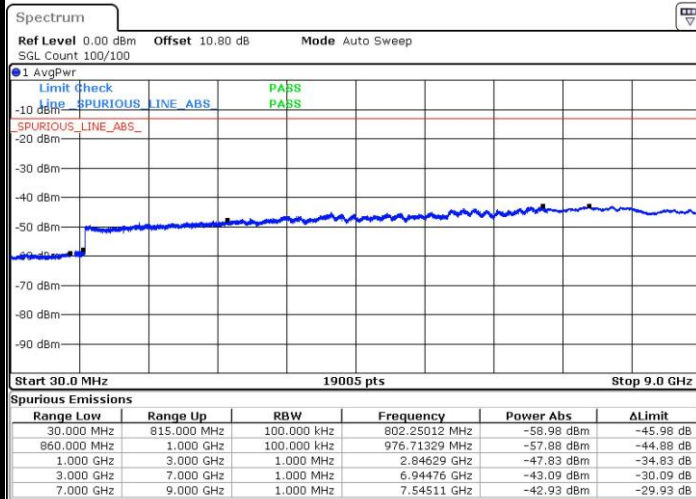
Date: 23 MAR 2019 00:38:11

Middle Channel / 64QAM



Date: 23 MAR 2019 00:39:27

Highest Channel / 64QAM

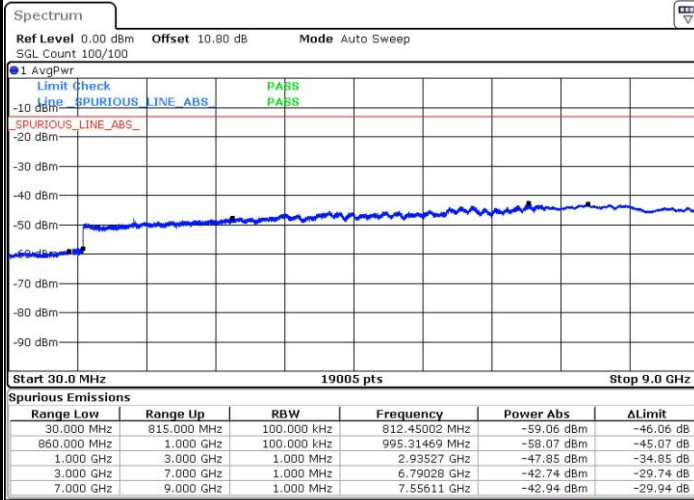


Date: 23 MAR 2019 00:44:06



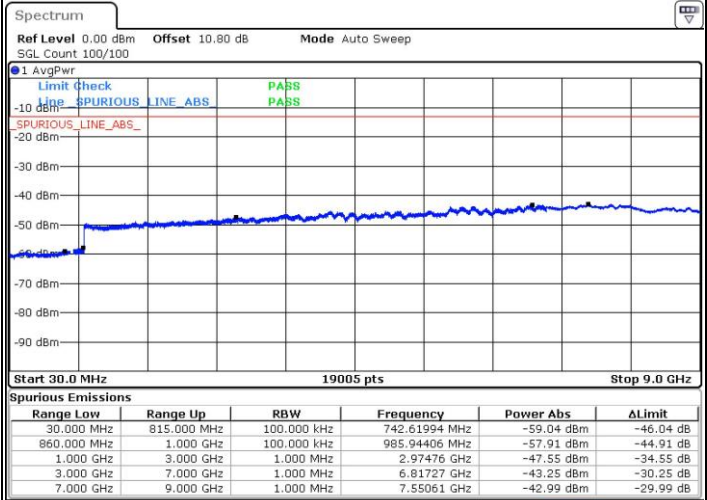
LTE Band 26 / 3MHz

Lowest Channel / 64QAM



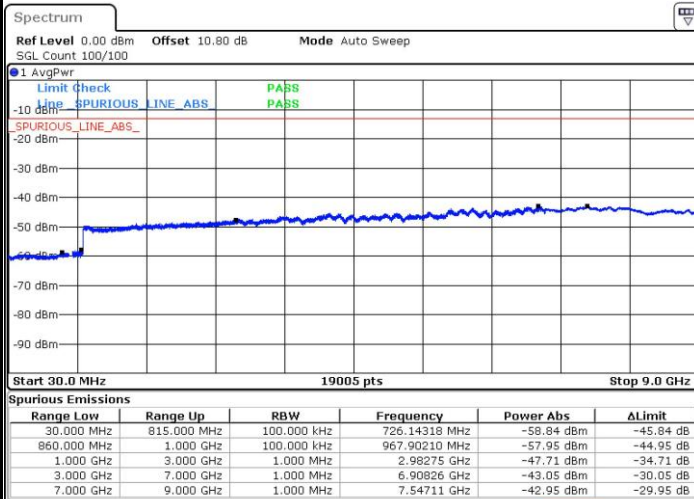
Date: 22 MAR 2019 22:32:03

Middle Channel / 64QAM



Date: 22 MAR 2019 22:33:19

Highest Channel / 64QAM

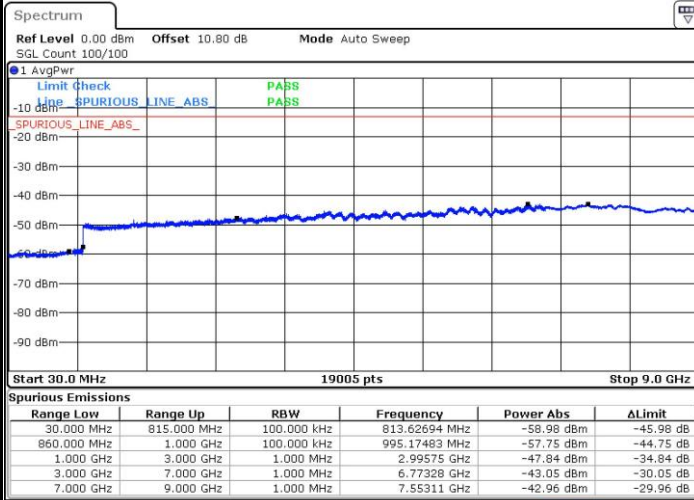


Date: 22 MAR 2019 22:36:29



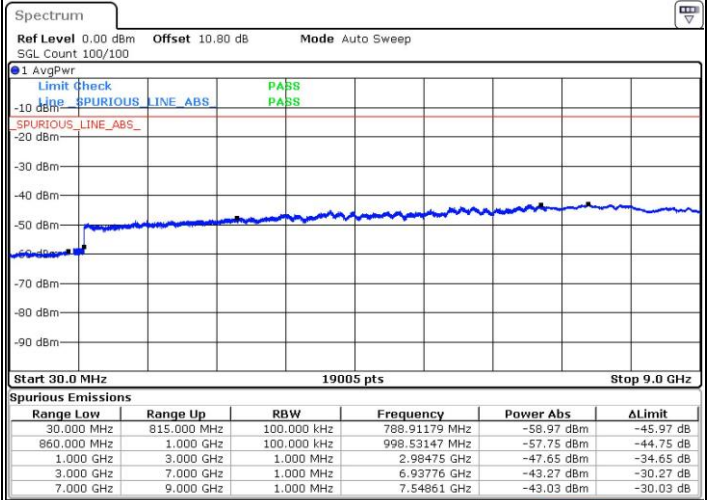
LTE Band 26 / 5MHz

Lowest Channel / 64QAM



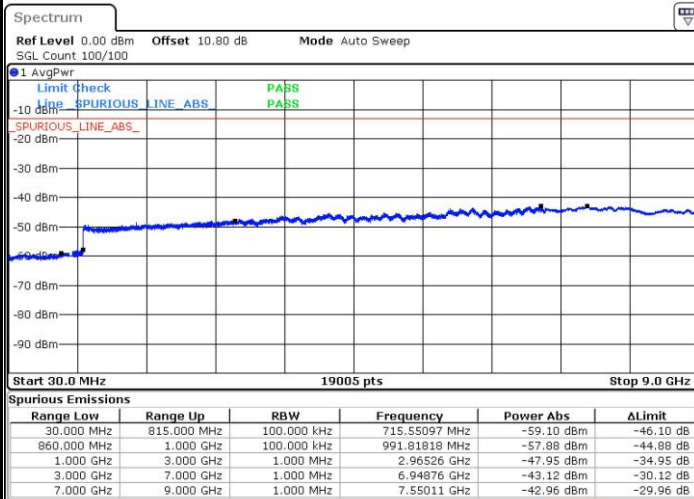
Date: 22 MAR 2019 22:39:39

Middle Channel / 64QAM



Date: 22 MAR 2019 22:40:56

Highest Channel / 64QAM

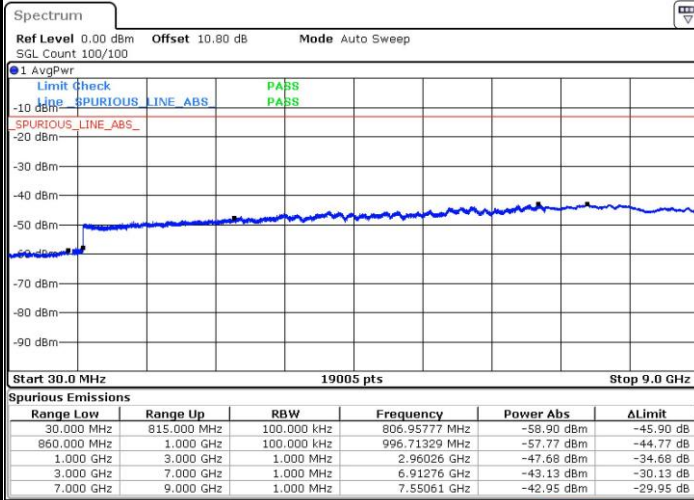


Date: 22 MAR 2019 22:44:04



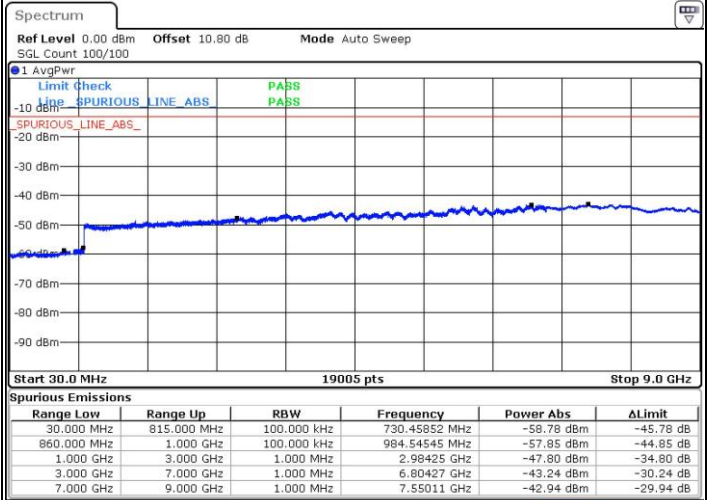
LTE Band 26 / 10MHz

Lowest Channel / 64QAM



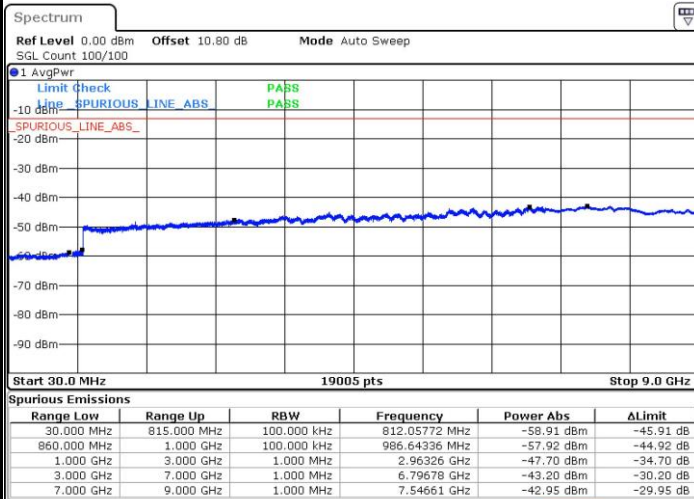
Date: 22 MAR 2019 22:47:14

Middle Channel / 64QAM



Date: 22 MAR 2019 22:48:30

Highest Channel / 64QAM

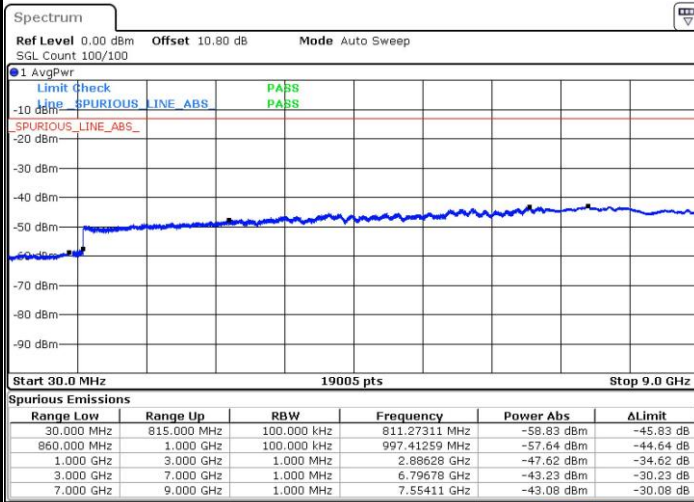


Date: 22 MAR 2019 22:51:38



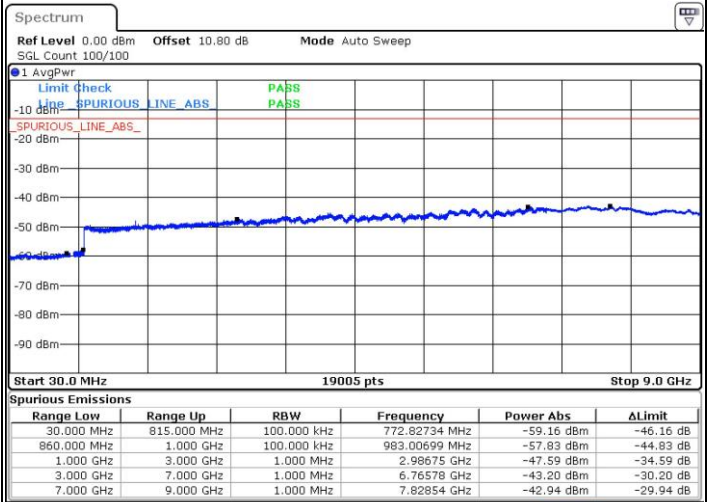
LTE Band 26 / 15MHz

Lowest Channel / 64QAM



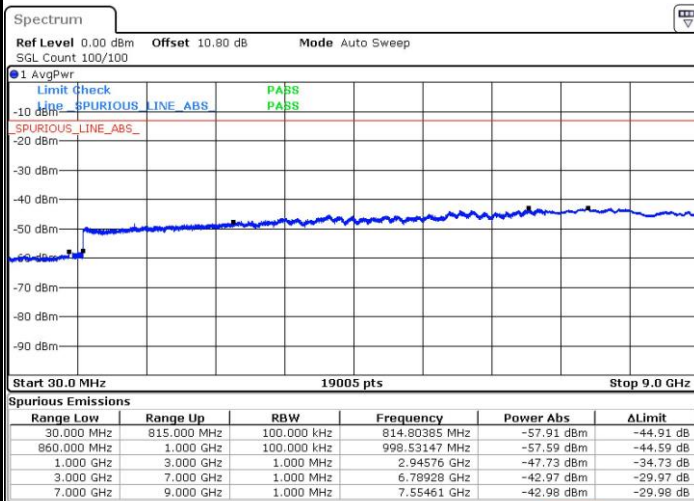
Date: 23 MAR 2019 00:02:42

Middle Channel / 64QAM



Date: 23 MAR 2019 00:03:58

Highest Channel / 64QAM



Date: 22 MAR 2019 22:59:08

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0090	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0102	
0	Normal Voltage	0.0075	
-10	Normal Voltage	0.0104	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0096	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0081	

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 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	3.42	4.23	4.81	5.48	PASS
Middle CH	3.36	4.35	4.84	5.68	
Highest CH	3.45	4.43	4.93	5.77	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	7.42	6.09	-	-	PASS
Middle CH	5.88	6.20	-	-	
Highest CH	6.09	6.29	-	-	



LTE Band 38 / 20MHz / QPSK

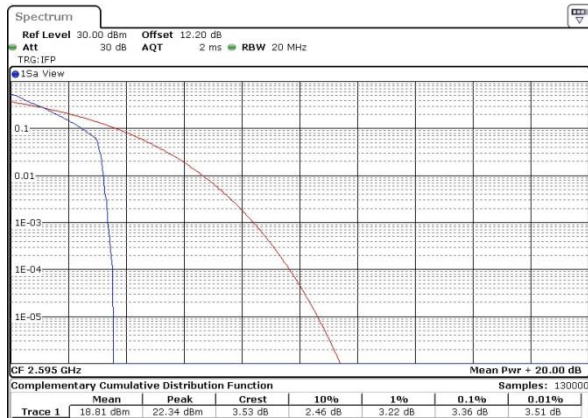
Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB

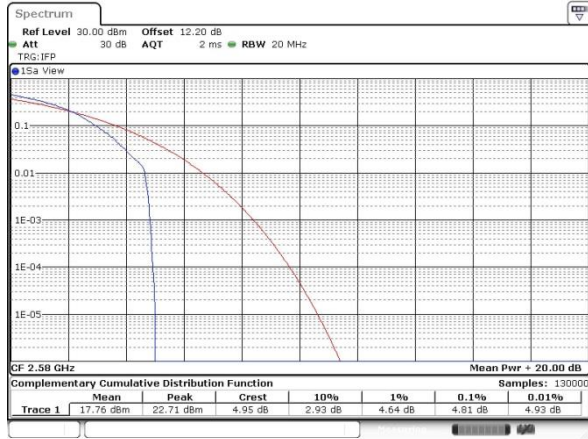


Highest Channel / 1RB

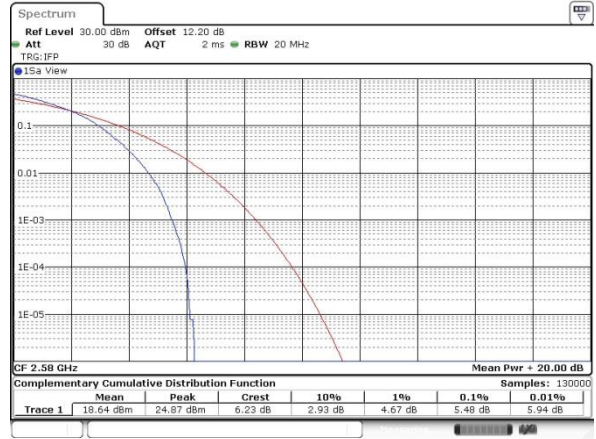


Highest Channel / Full RB

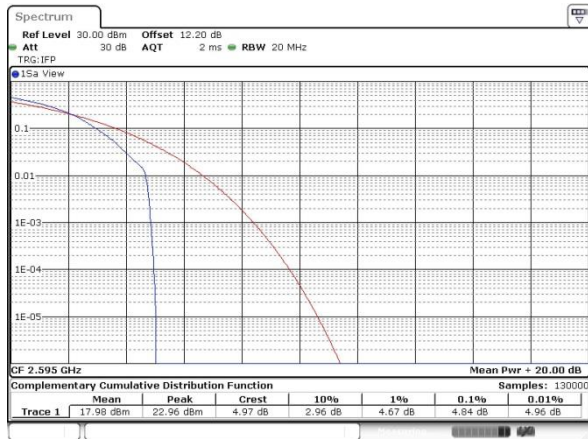


LTE Band 38 / 20MHz / 16QAM
Lowest Channel / 1RB


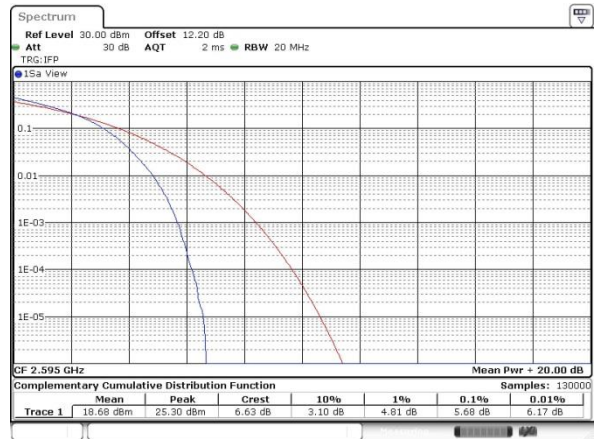
Date: 25 MAR 2019 11:19:32

Lowest Channel / Full RB


Date: 25 MAR 2019 11:19:50

Middle Channel / 1RB


Date: 25 MAR 2019 11:20:06

Middle Channel / Full RB


Date: 25 MAR 2019 11:20:22

Highest Channel / 1RB


Date: 25 MAR 2019 11:20:42

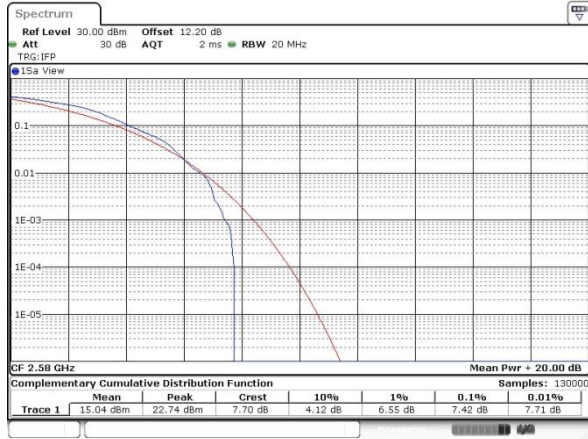
Highest Channel / Full RB


Date: 25 MAR 2019 11:20:59

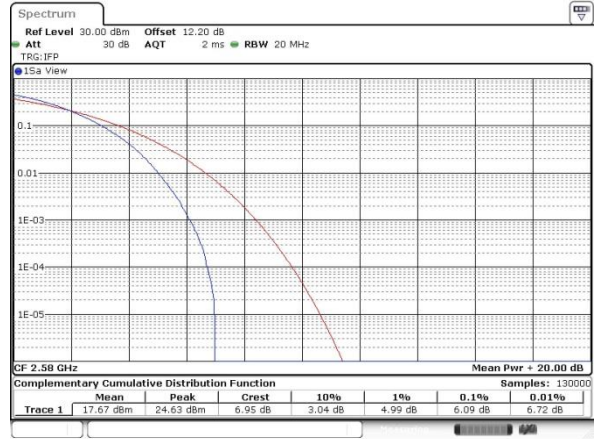


LTE Band 38 / 20MHz / 64QAM

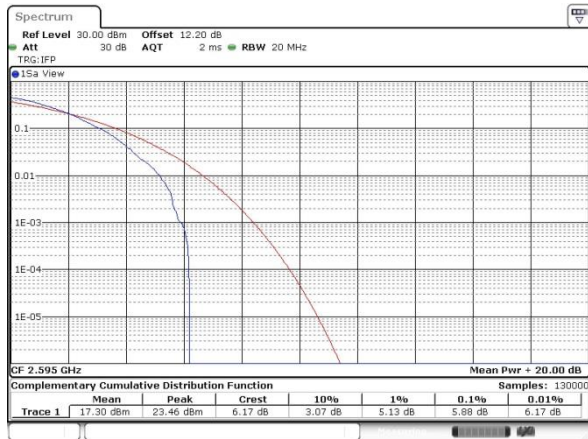
Lowest Channel / 1RB



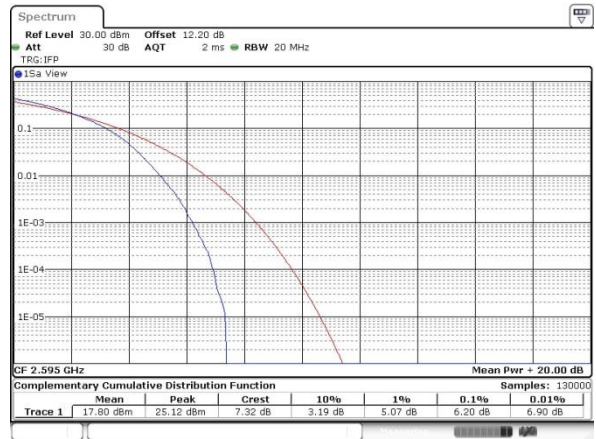
Lowest Channel / Full RB



Middle Channel / 1RB



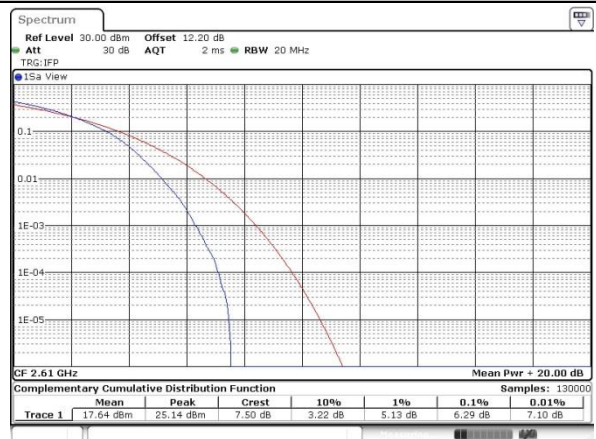
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



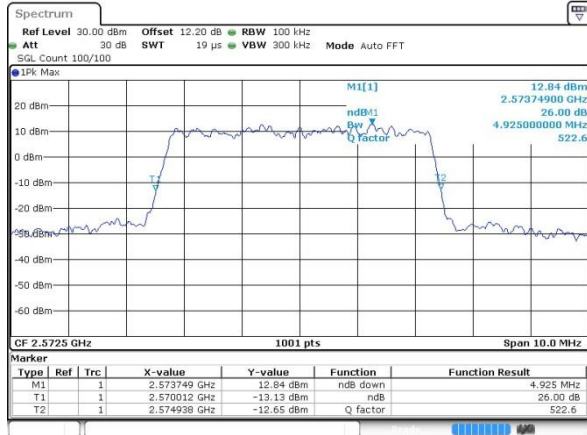
**26dB Bandwidth**

Mode	LTE Band 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	-	-	-	-	4.93	4.88	9.61	9.77	14.30	14.27	19.10	19.06
Middle CH	-	-	-	-	4.83	4.87	9.63	9.65	14.33	14.12	18.66	18.78
Highest CH	-	-	-	-	4.97	4.80	9.93	9.63	14.30	14.09	18.78	18.66
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.82	-	9.69	-	14.39	-	18.66	-
Middle CH	-	-	-	-	4.86	-	9.61	-	14.39	-	18.78	-
Highest CH	-	-	-	-	4.85	-	9.63	-	14.36	-	18.82	-

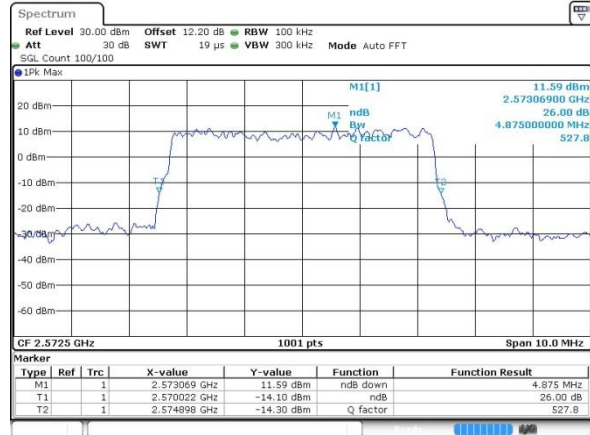


LTE Band 38

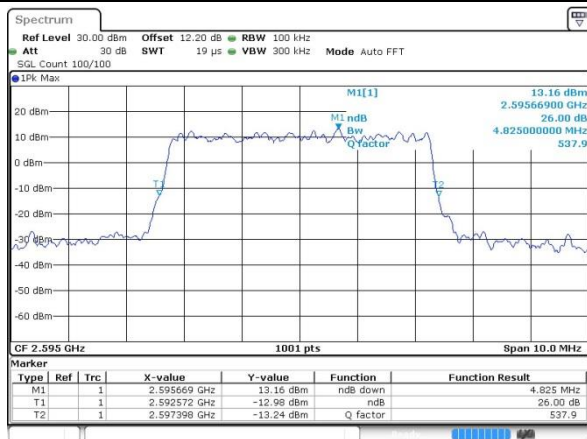
Lowest Channel / 5MHz / QPSK



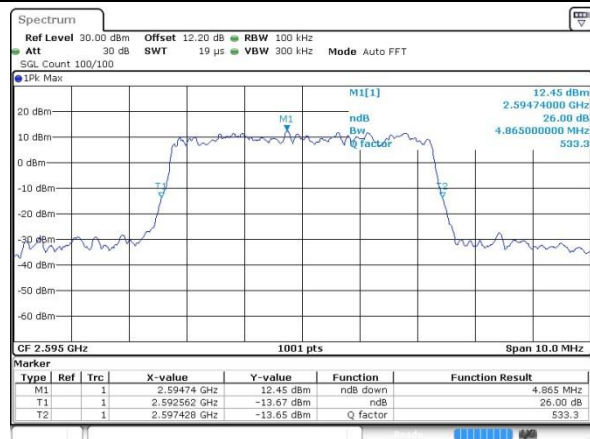
Lowest Channel / 5MHz / 16QAM



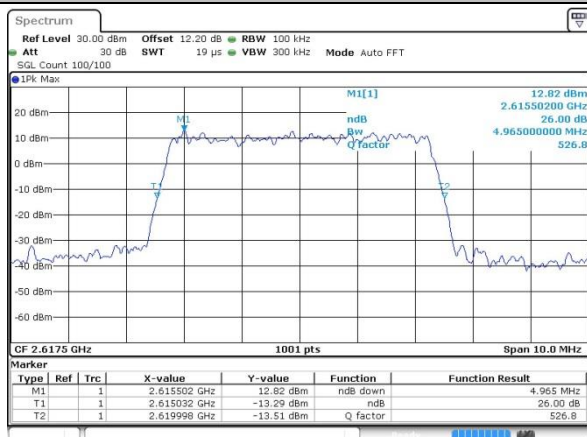
Middle Channel / 5MHz / QPSK



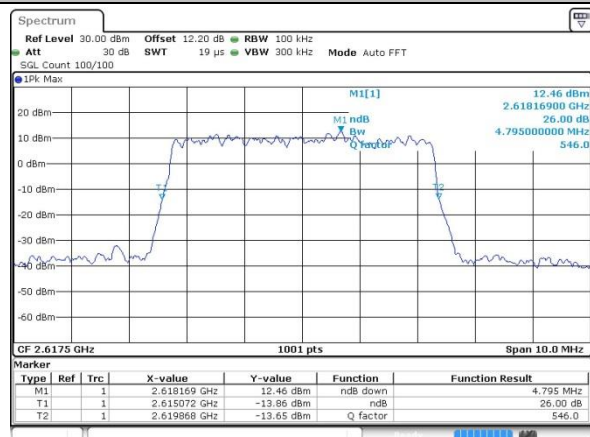
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



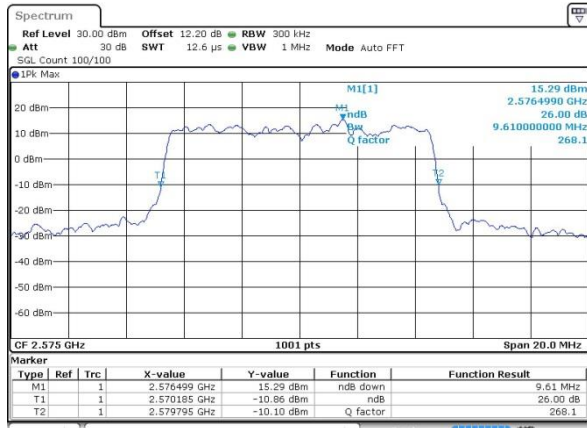
Highest Channel / 5MHz / 16QAM





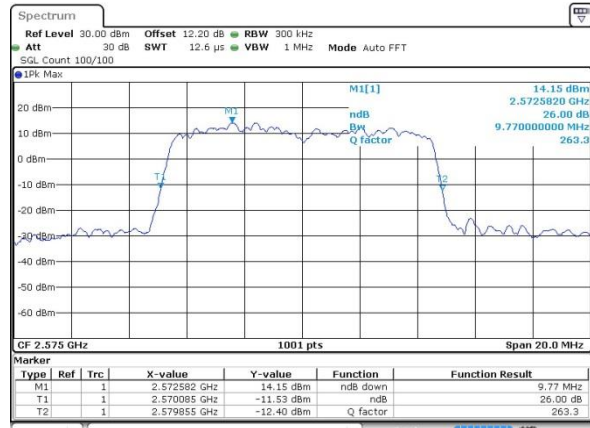
LTE Band 38

Lowest Channel / 10MHz / QPSK



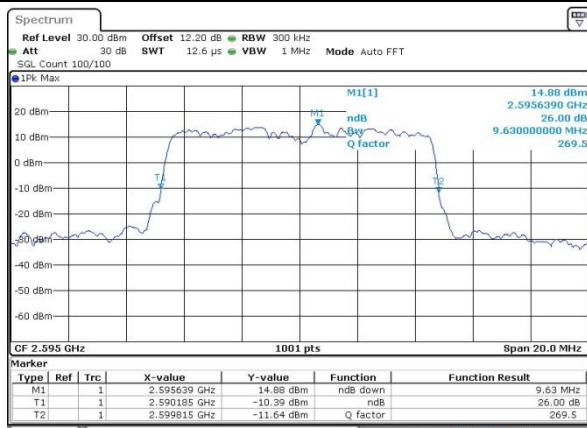
Date: 25 MAR 2019 11:02:29

Lowest Channel / 10MHz / 16QAM



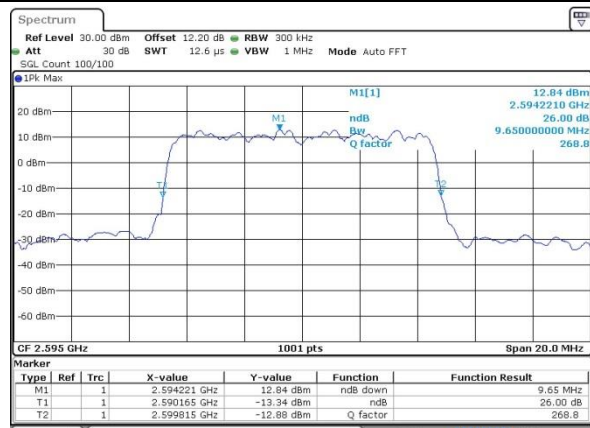
Date: 25 MAR 2019 11:02:42

Middle Channel / 10MHz / QPSK



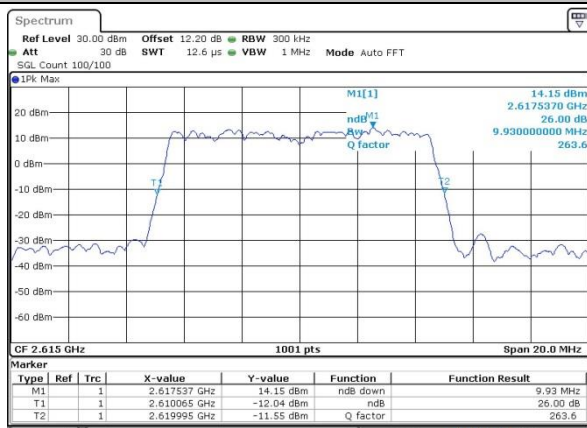
Date: 25 MAR 2019 11:03:18

Middle Channel / 10MHz / 16QAM



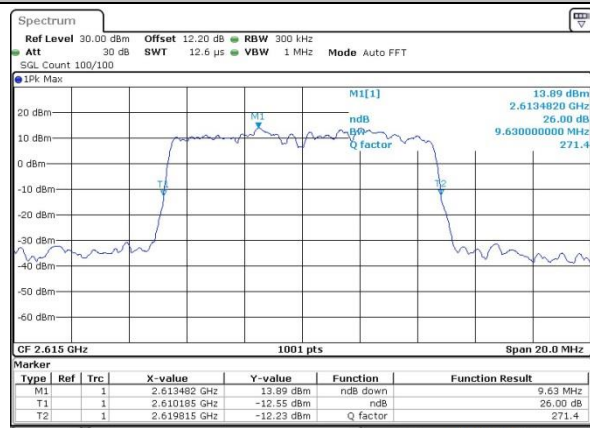
Date: 25 MAR 2019 11:03:30

Highest Channel / 10MHz / QPSK



Date: 25 MAR 2019 11:04:07

Highest Channel / 10MHz / 16QAM

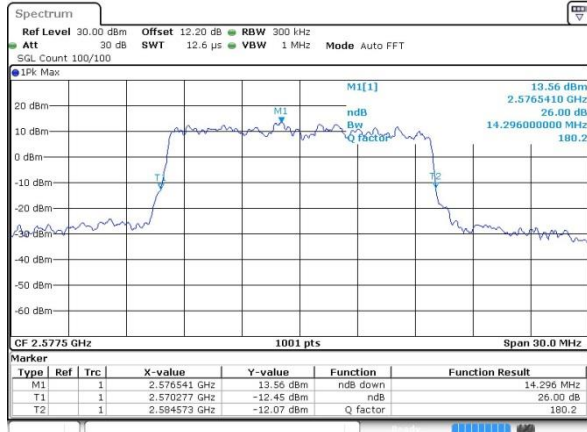


Date: 25 MAR 2019 11:04:19



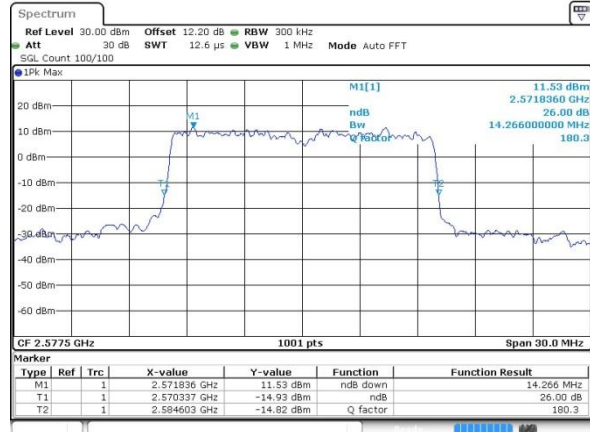
LTE Band 38

Lowest Channel / 15MHz / QPSK



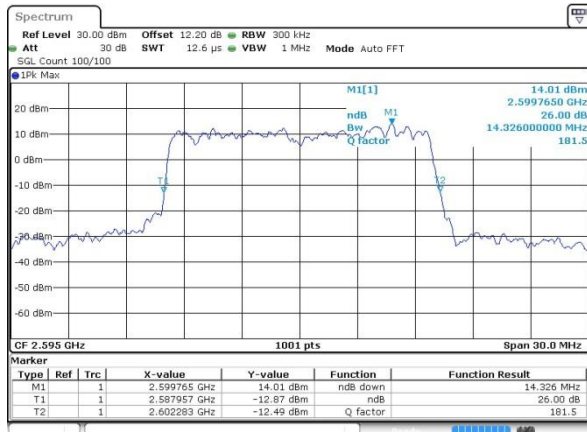
Date: 25 MAR 2019 11:04:57

Lowest Channel / 15MHz / 16QAM



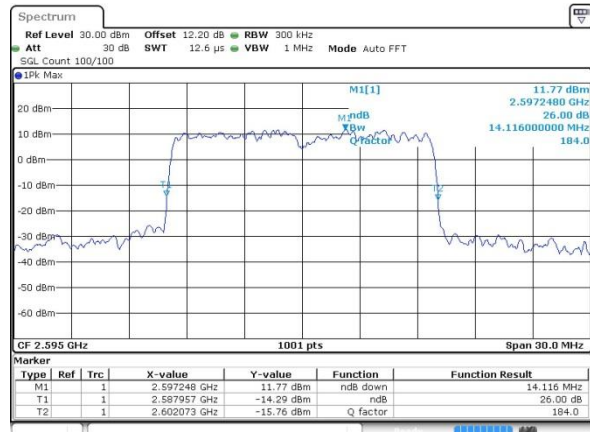
Date: 25 MAR 2019 11:05:10

Middle Channel / 15MHz / QPSK



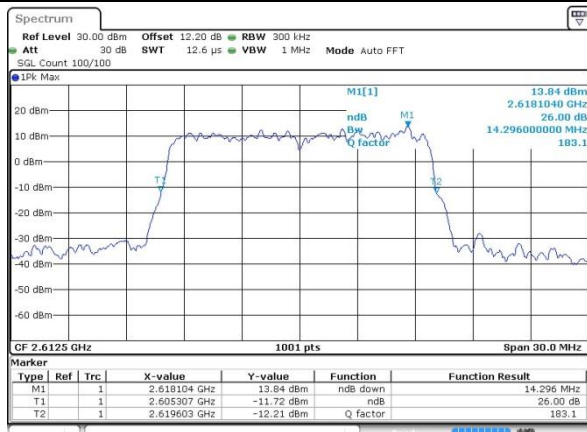
Date: 25 MAR 2019 11:05:45

Middle Channel / 15MHz / 16QAM



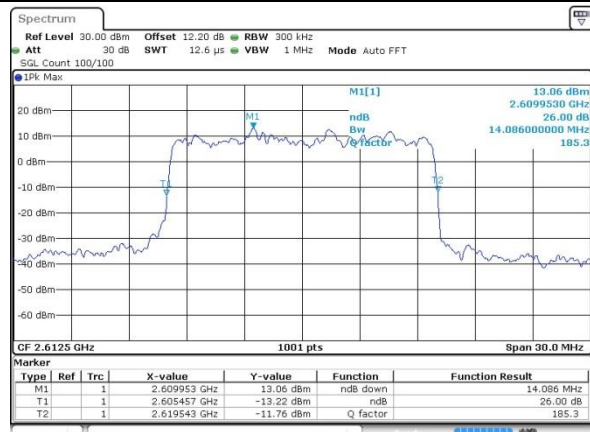
Date: 25 MAR 2019 11:05:57

Highest Channel / 15MHz / QPSK



Date: 25 MAR 2019 11:06:34

Highest Channel / 15MHz / 16QAM

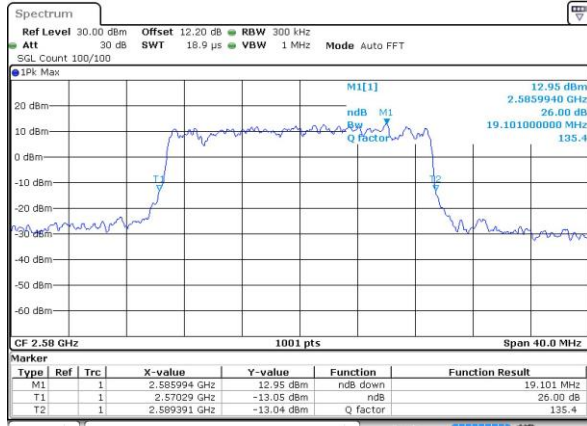


Date: 25 MAR 2019 11:06:47



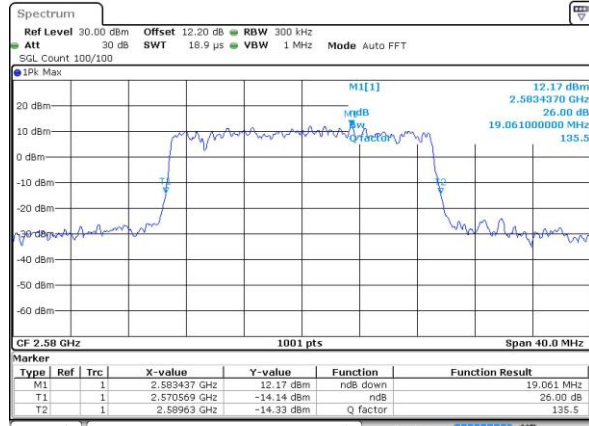
LTE Band 38

Lowest Channel / 20MHz / QPSK



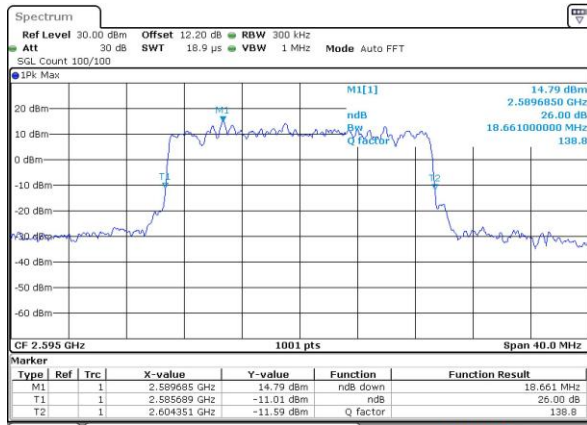
Date: 3 APR 2019 18:48:26

Lowest Channel / 20MHz / 16QAM



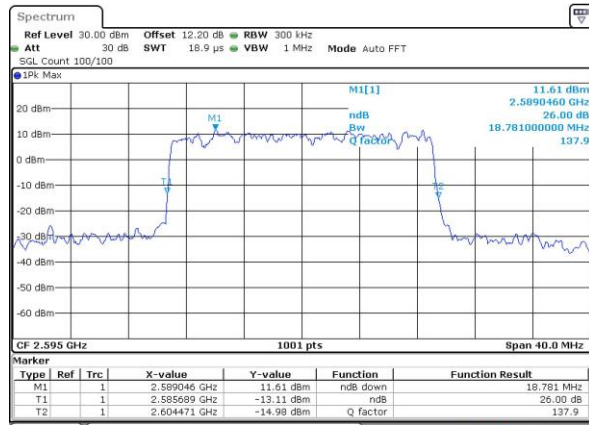
Date: 3 APR 2019 18:48:39

Middle Channel / 20MHz / QPSK



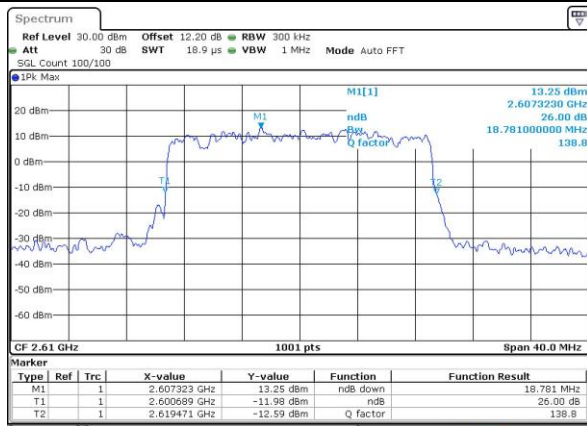
Date: 3 APR 2019 18:49:14

Middle Channel / 20MHz / 16QAM



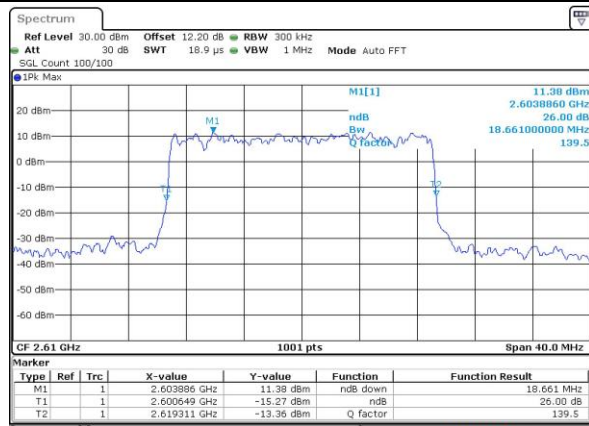
Date: 3 APR 2019 18:49:26

Highest Channel / 20MHz / QPSK



Date: 3 APR 2019 18:50:03

Highest Channel / 20MHz / 16QAM

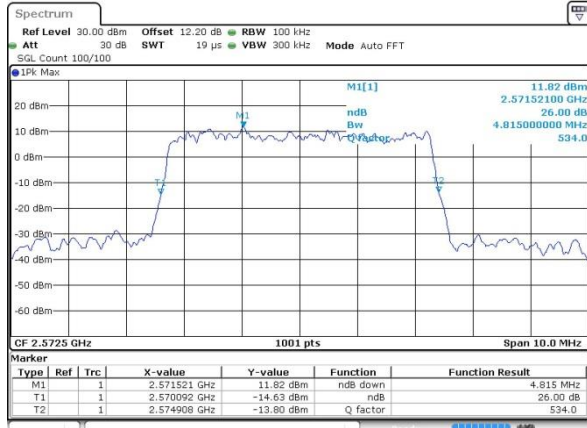


Date: 3 APR 2019 18:50:15



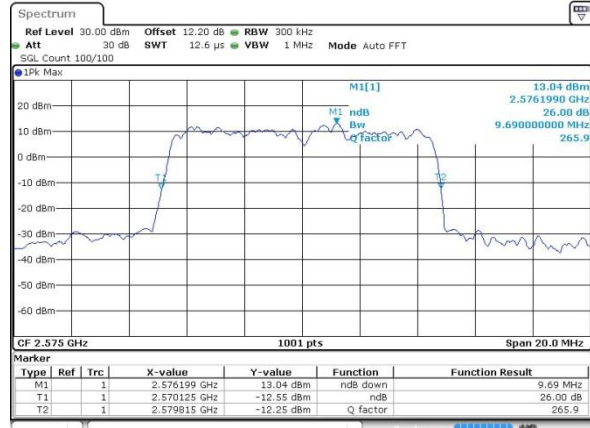
LTE Band 38

Lowest Channel / 5MHz / 64QAM



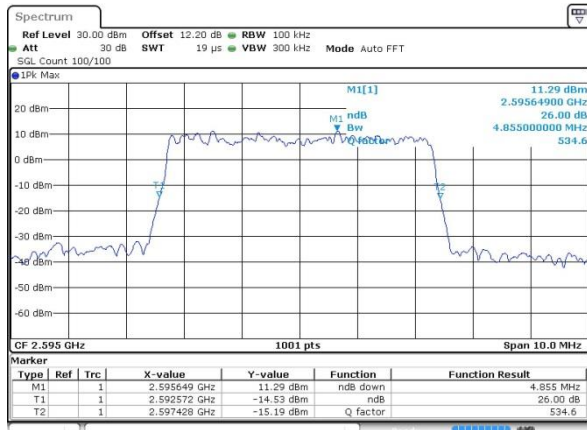
Date: 25 MAR 2019 11:09:39

Lowest Channel / 10MHz / 64QAM



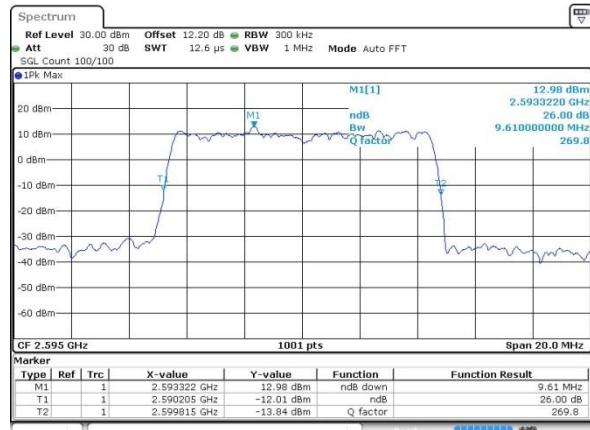
Date: 25 MAR 2019 11:10:52

Middle Channel / 5MHz / 64QAM



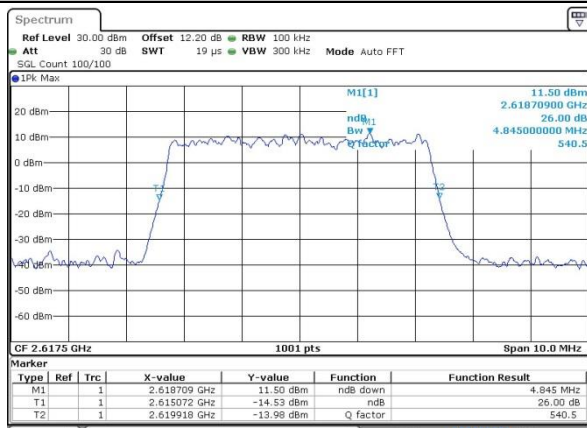
Date: 25 MAR 2019 11:10:02

Middle Channel / 10MHz / 64QAM



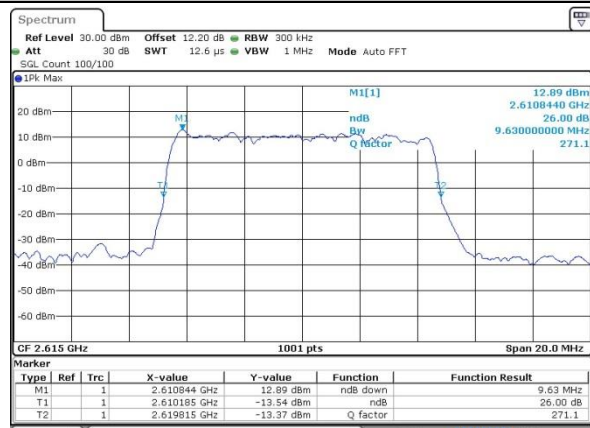
Date: 25 MAR 2019 11:11:16

Highest Channel / 5MHz / 64QAM



Date: 25 MAR 2019 11:10:27

Highest Channel / 10MHz / 64QAM

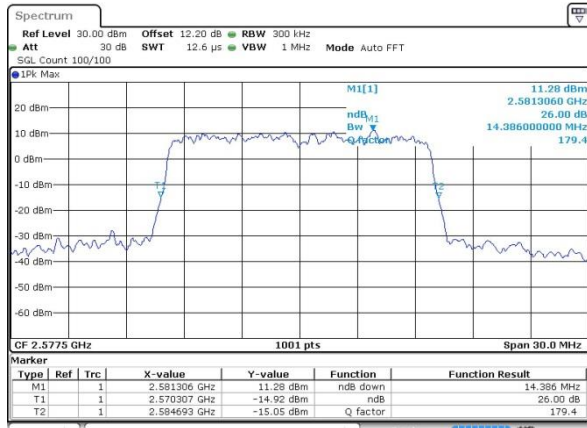


Date: 25 MAR 2019 11:11:41

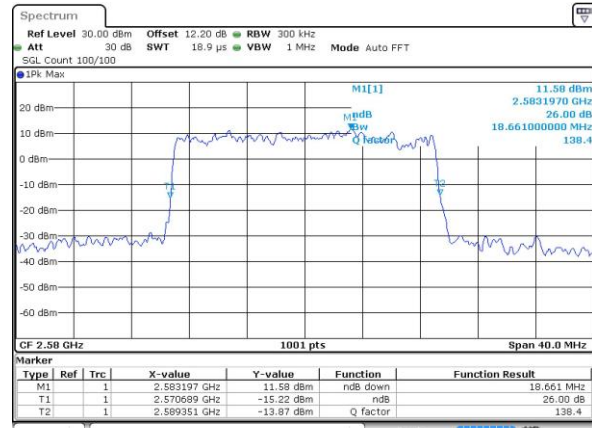


LTE Band 38

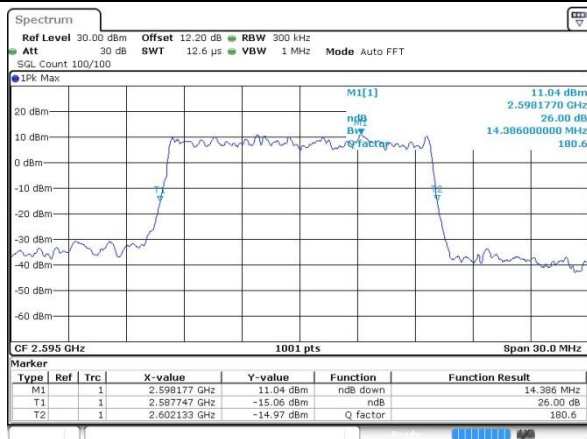
Lowest Channel / 15MHz / 64QAM



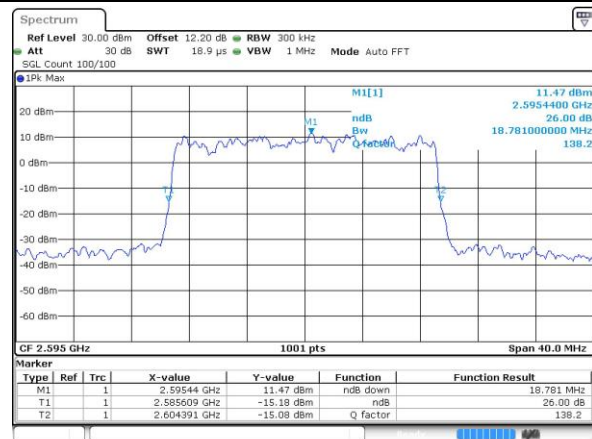
Lowest Channel / 20MHz / 64QAM



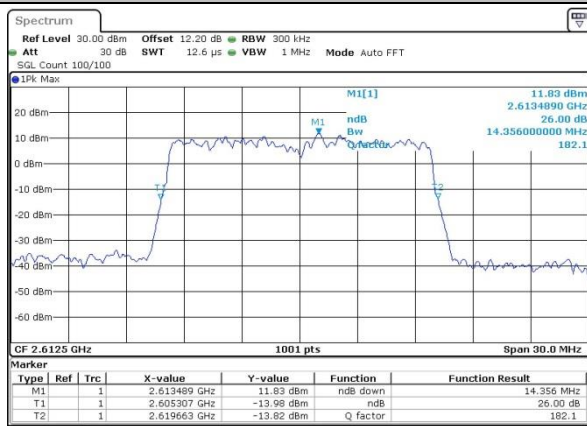
Middle Channel / 15MHz / 64QAM



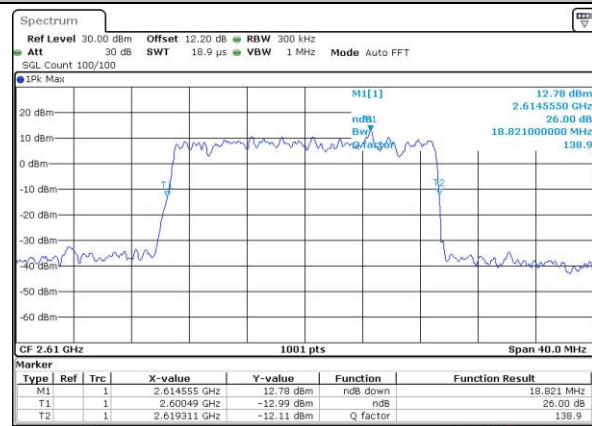
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



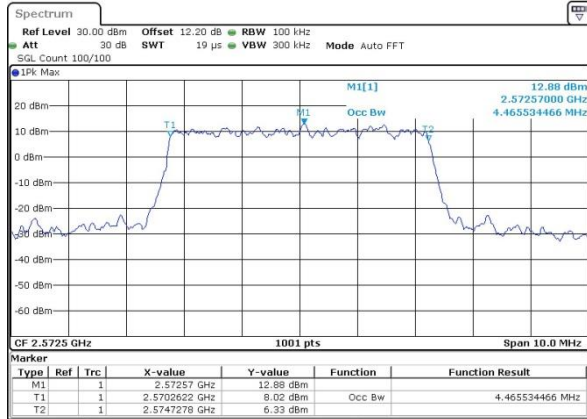
**Occupied Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.47	4.49	9.01	9.07	13.43	13.43	17.86	17.78
Middle CH	-	-	-	-	4.5	4.5	9.01	9.05	13.49	13.49	17.86	17.94
Highest CH	-	-	-	-	4.5	4.5	9.03	9.03	13.4	13.43	17.86	17.86
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.48	-	9.00	-	13.43	-	17.86	-
Middle CH	-	-	-	-	4.49	-	9.01	-	13.37	-	17.94	-
Highest CH	-	-	-	-	4.46	-	9.01	-	13.46	-	17.78	-



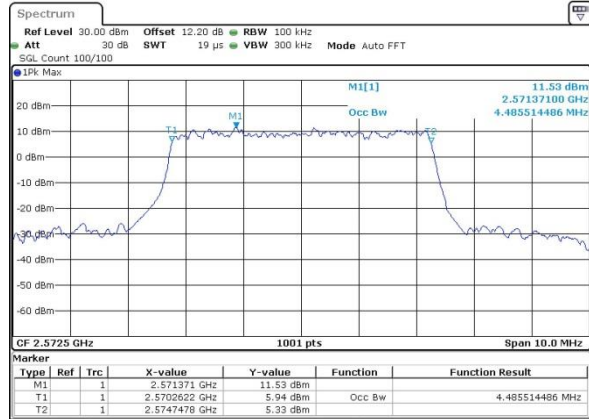
LTE Band 38

Lowest Channel / 5MHz / QPSK



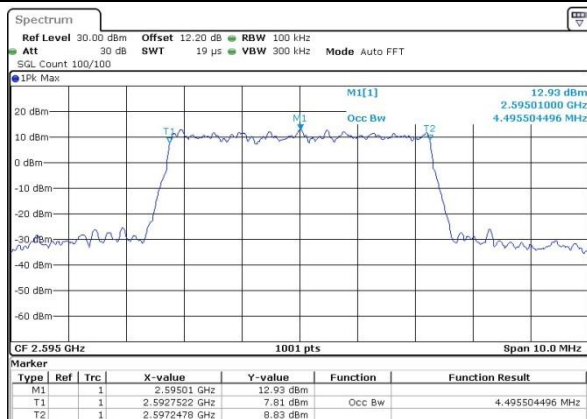
Date: 25 MAR 2019 10:59:36

Lowest Channel / 5MHz / 16QAM



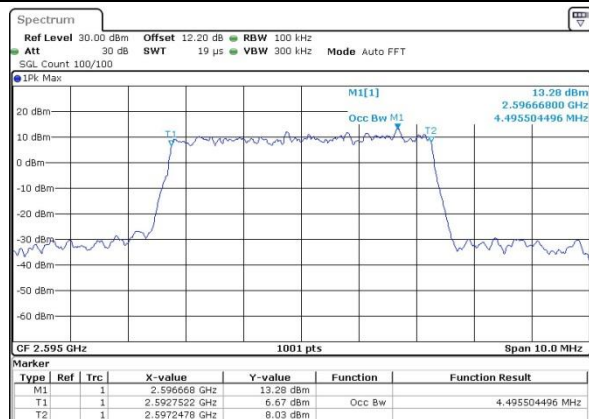
Date: 25 MAR 2019 10:59:49

Middle Channel / 5MHz / QPSK



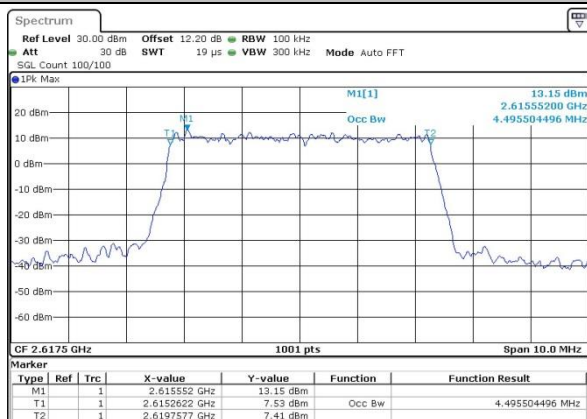
Date: 25 MAR 2019 11:00:26

Middle Channel / 5MHz / 16QAM



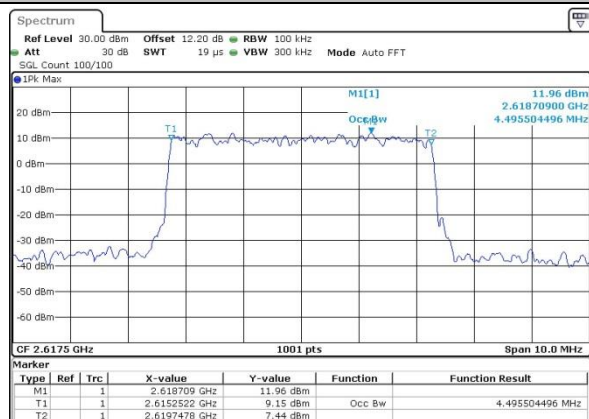
Date: 25 MAR 2019 11:00:38

Highest Channel / 5MHz / QPSK



Date: 25 MAR 2019 11:01:14

Highest Channel / 5MHz / 16QAM



Date: 25 MAR 2019 11:01:26