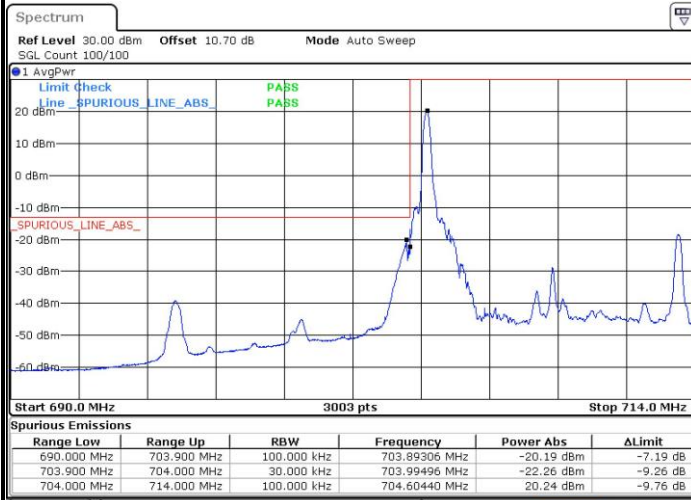


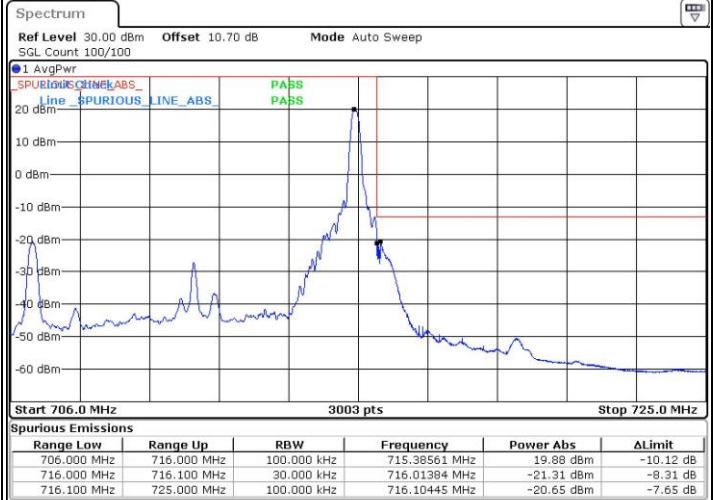


LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



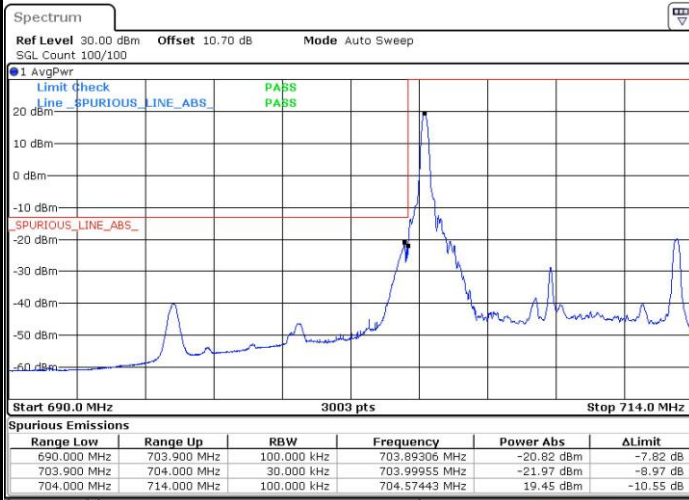
Highest Band Edge / Full RB



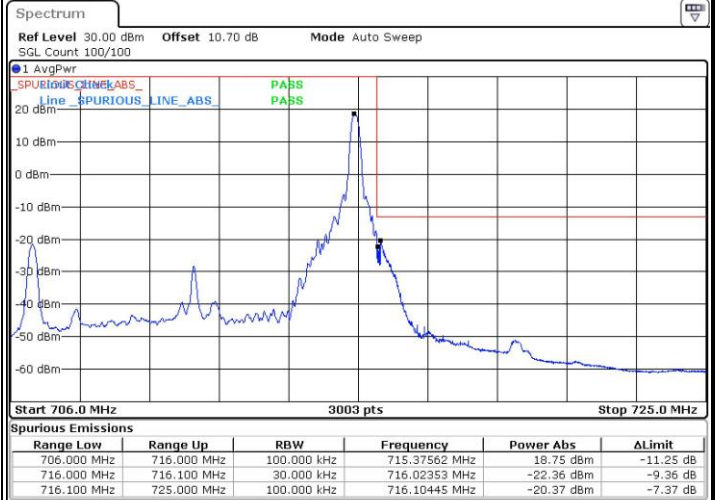


LTE Band 17 / 10MHz / 16QAM

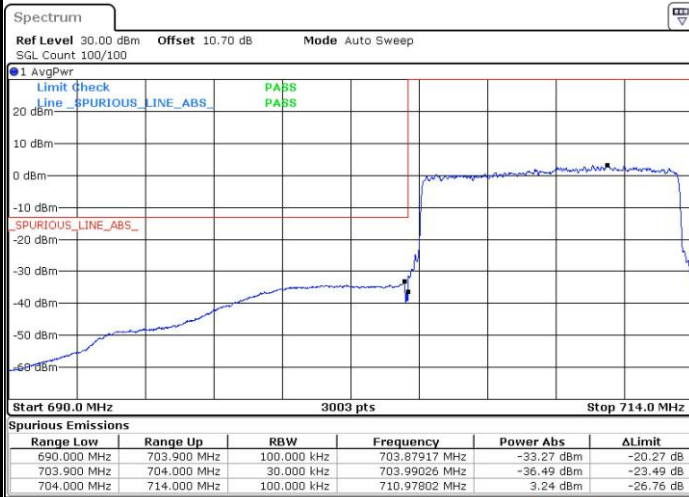
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



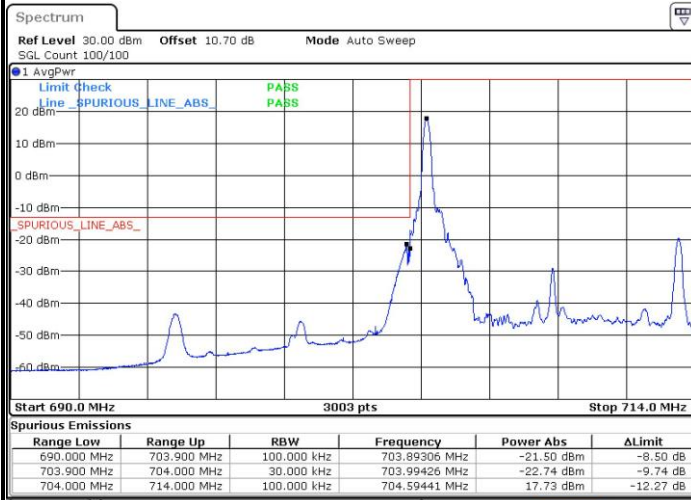
Highest Band Edge / Full RB



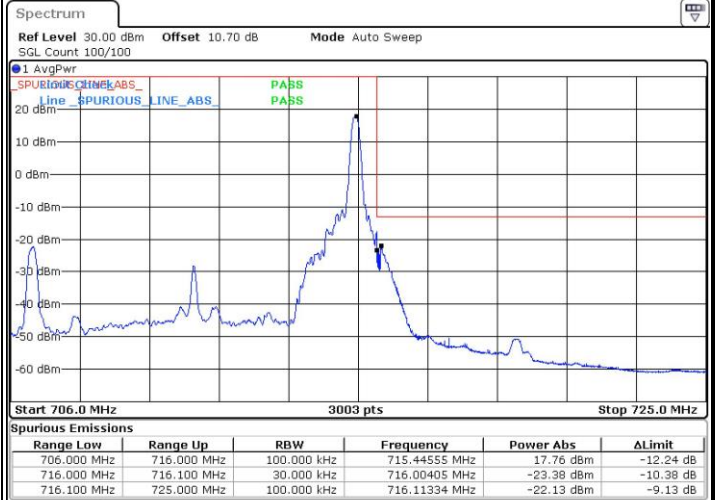


LTE Band 17 / 10MHz / 64QAM

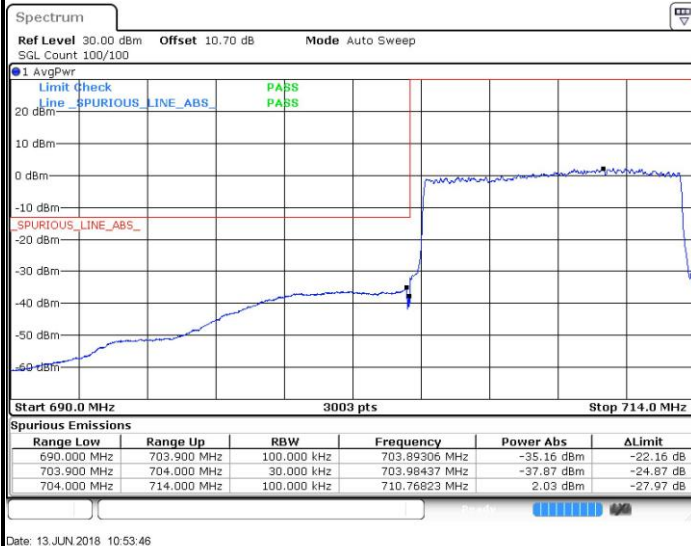
Lowest Band Edge / 1 RB



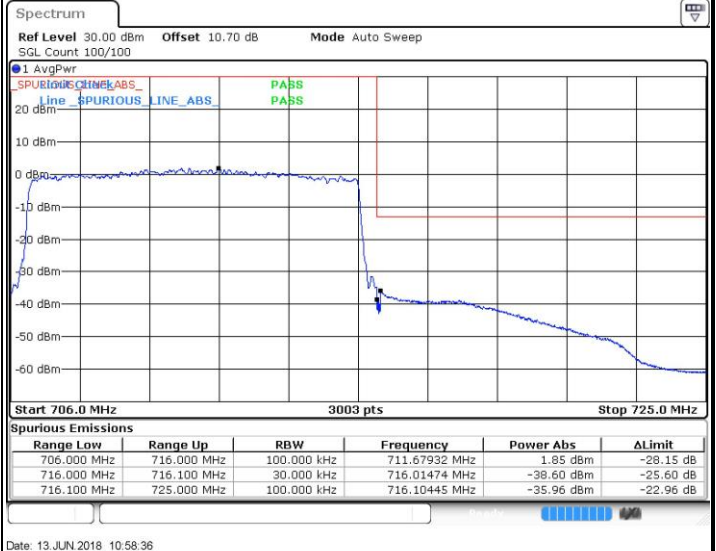
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

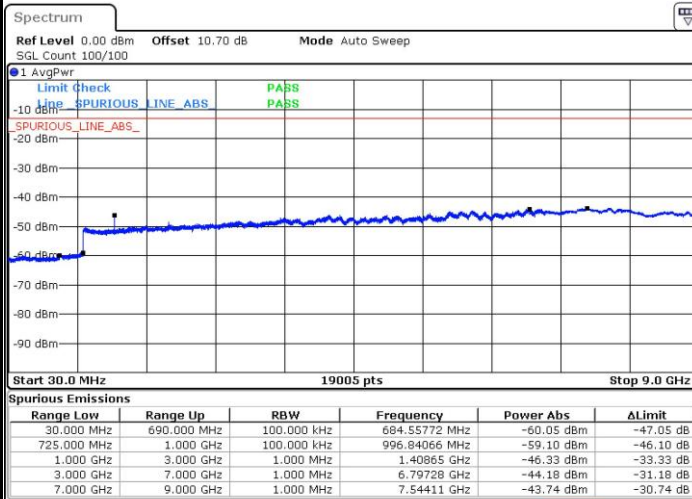




Conducted Spurious Emission

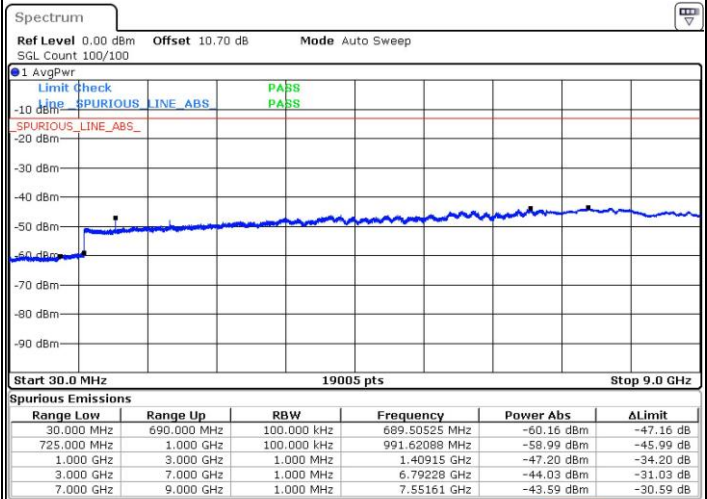
LTE Band 17 / 5MHz

Lowest Channel / QPSK



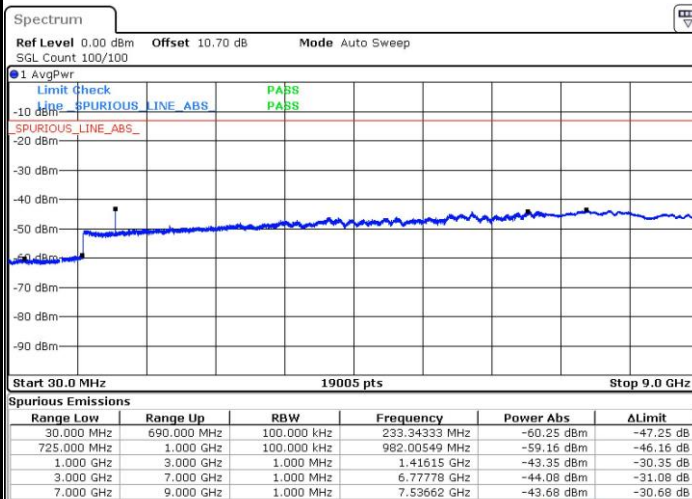
Date: 13 JUN 2018 10:15:26

Lowest Channel / 16QAM



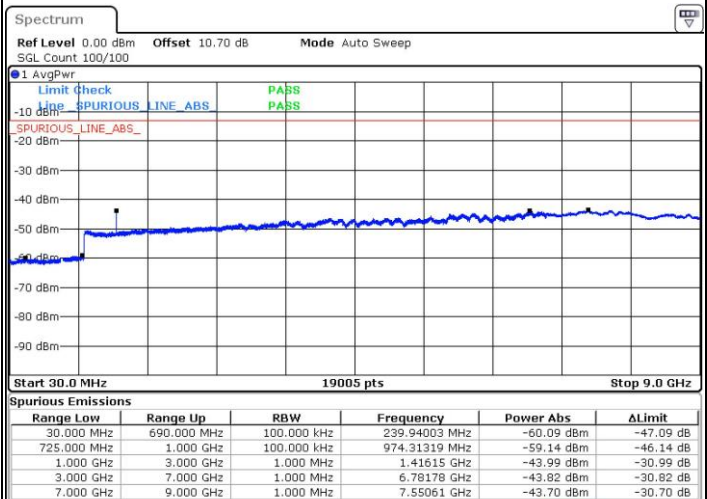
Date: 13 JUN 2018 10:16:21

Middle Channel / QPSK



Date: 13 JUN 2018 10:17:57

Middle Channel / 16QAM

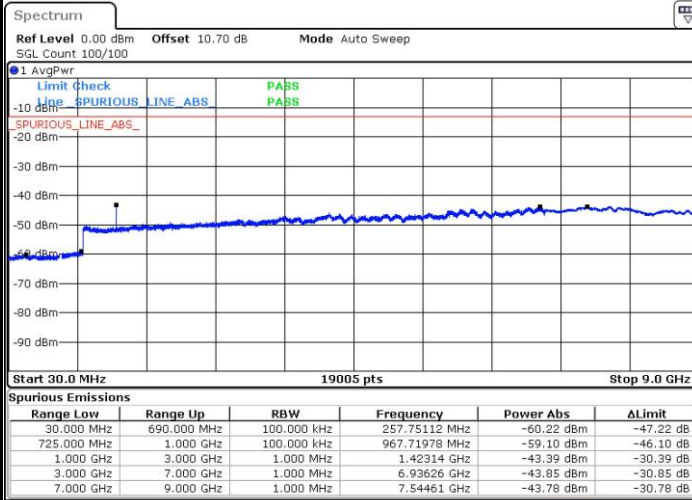


Date: 13 JUN 2018 10:18:51



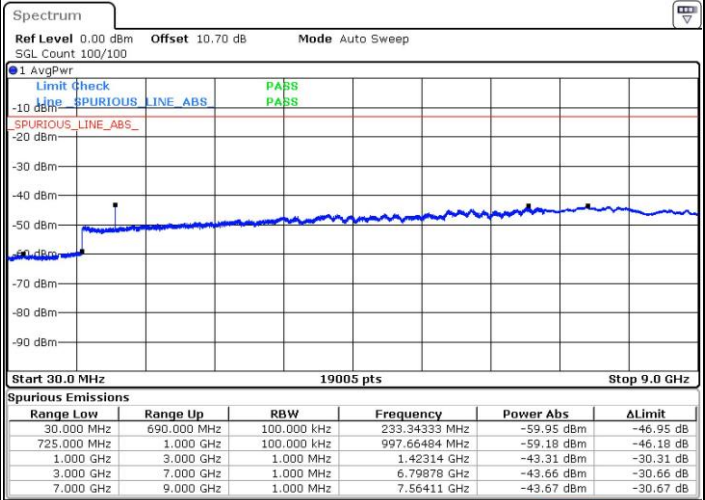
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 13 JUN 2018 10:25:05

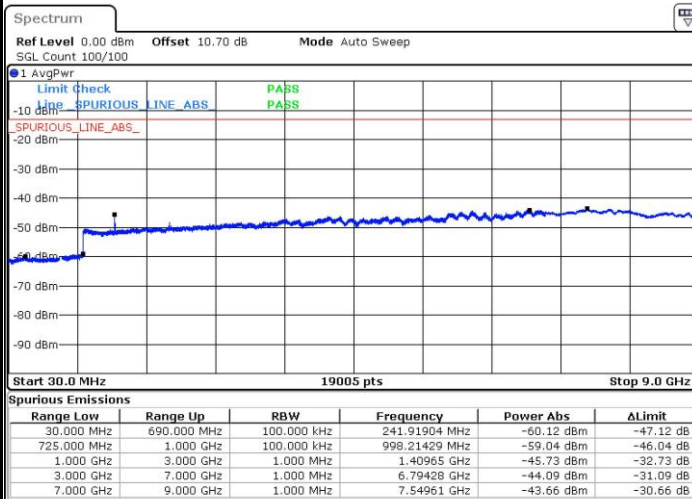
Highest Channel / 16QAM



Date: 13 JUN 2018 10:25:59

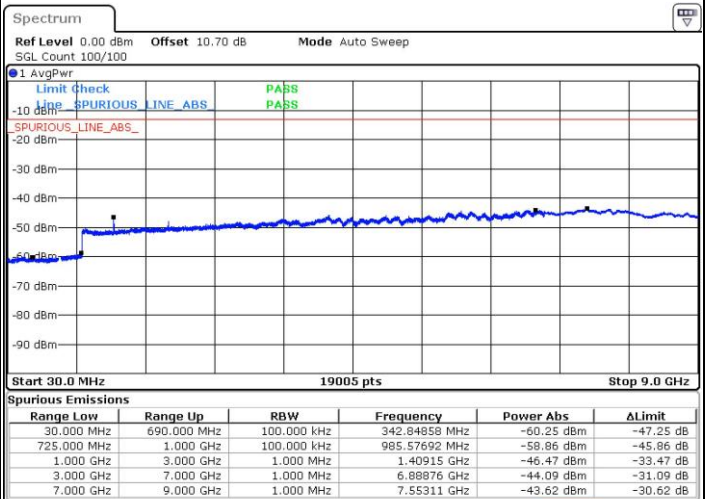
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 13 JUN 2018 10:32:12

Lowest Channel / 16QAM

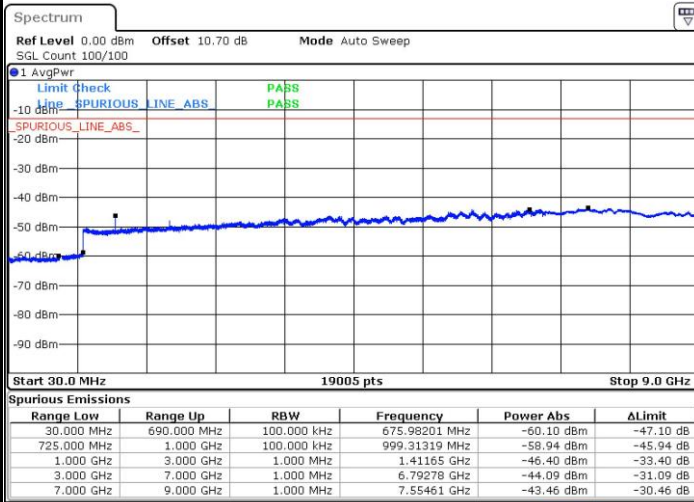


Date: 13 JUN 2018 10:33:06



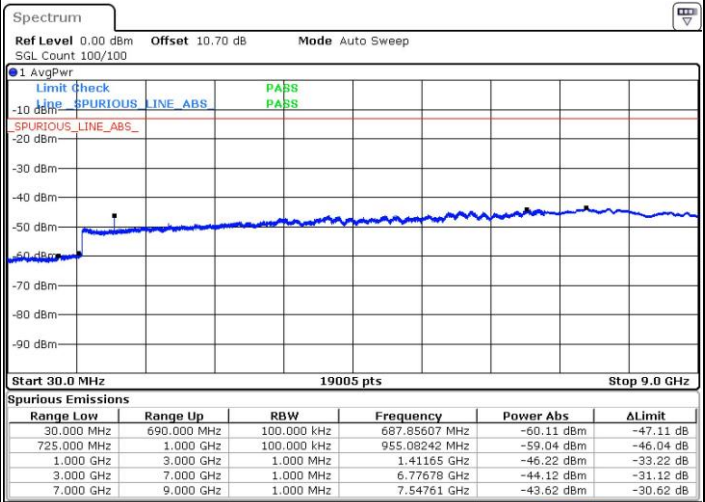
LTE Band 17 / 10MHz

Middle Channel / QPSK



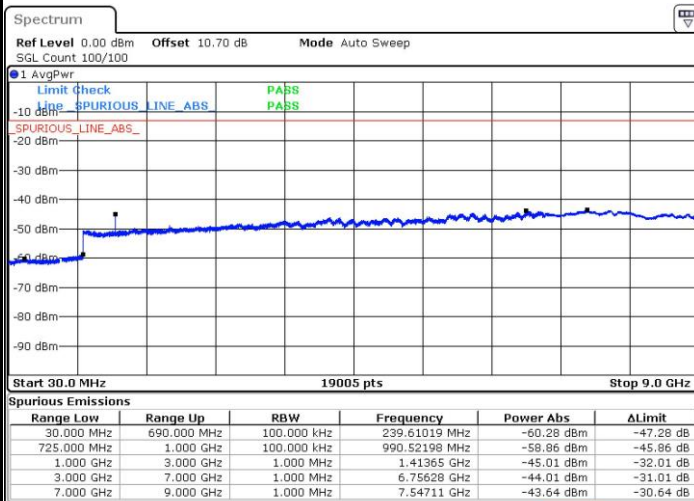
Date: 13 JUN 2018 10:34:43

Middle Channel / 16QAM



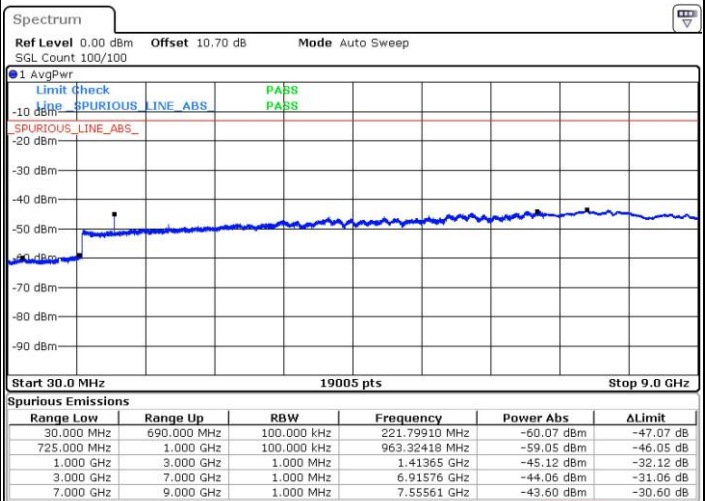
Date: 13 JUN 2018 10:35:37

Highest Channel / QPSK



Date: 13 JUN 2018 10:41:50

Highest Channel / 16QAM

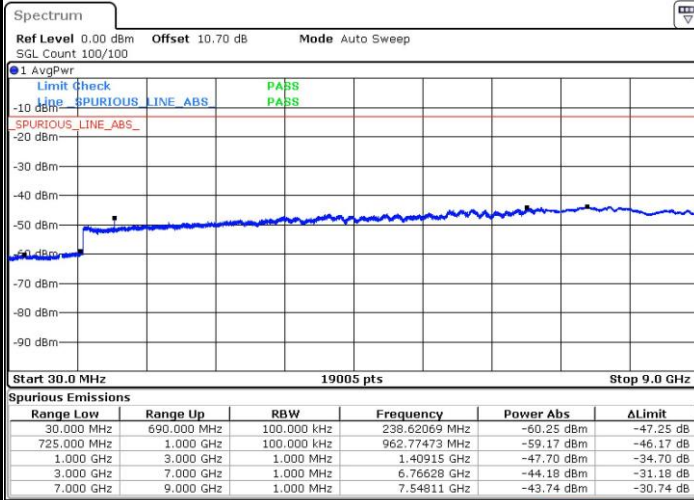


Date: 13 JUN 2018 10:42:44



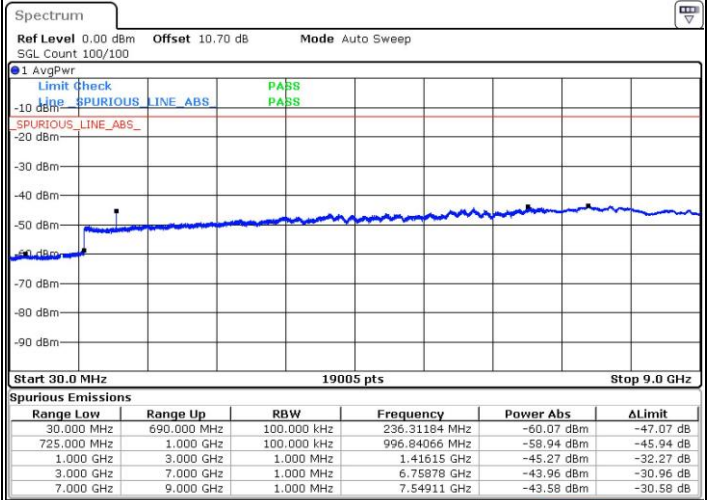
LTE Band 17 / 5MHz

Lowest Channel / 64QAM



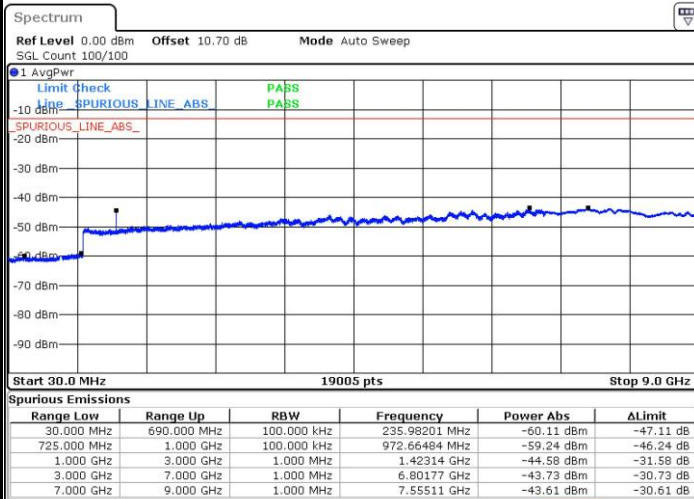
Date: 13 JUN 2018 10:46:18

Middle Channel / 64QAM



Date: 13 JUN 2018 10:47:33

Highest Channel / 64QAM

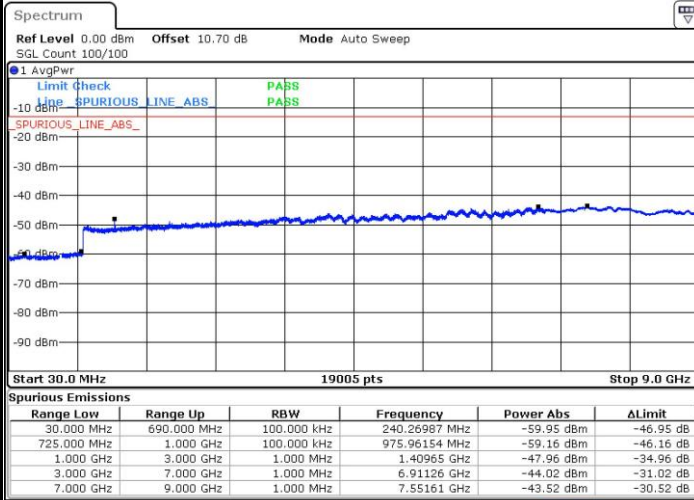


Date: 13 JUN 2018 10:51:07



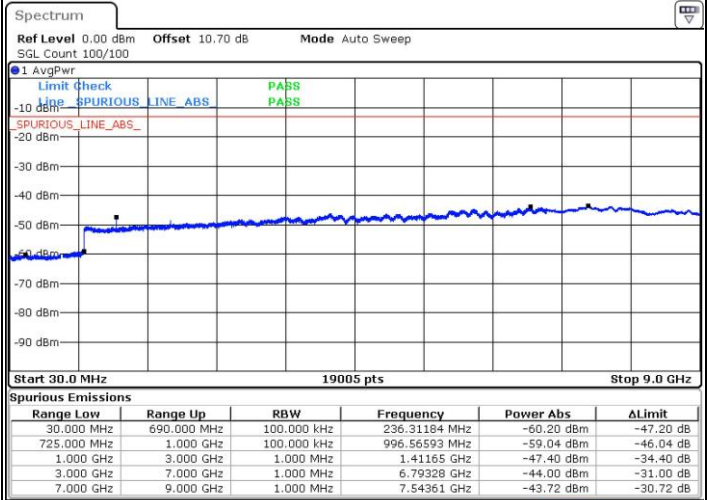
LTE Band 17 / 10MHz

Lowest Channel / 64QAM



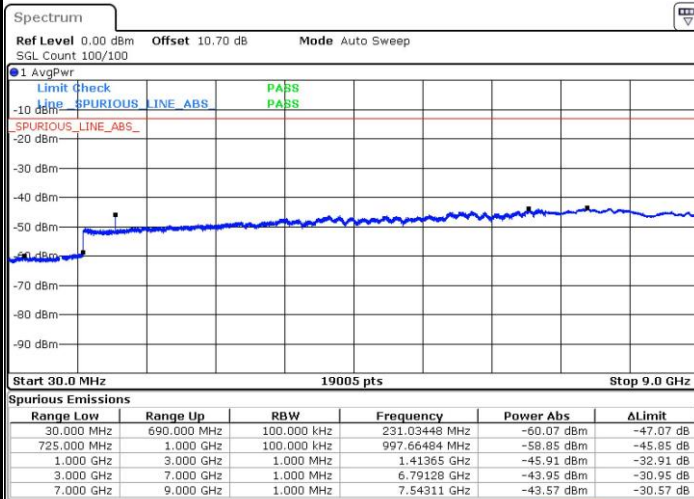
Date: 13 JUN 2018 10:54:41

Middle Channel / 64QAM



Date: 13 JUN 2018 10:55:57

Highest Channel / 64QAM



Date: 13 JUN 2018 10:59:31

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	0.0003	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0063	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0079	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0062	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0035	

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 38

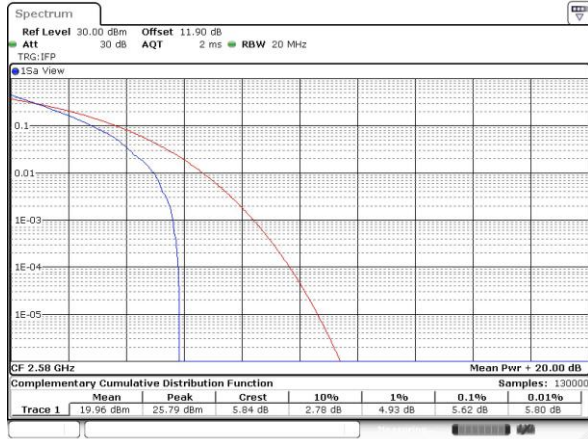
Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.62	5.88	6.09	6.78	PASS
Middle CH	5.77	5.88	6.9	6.72	
Highest CH	5.74	5.91	6.29	6.72	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.61	6.90	-	-	PASS
Middle CH	6.84	6.93	-	-	
Highest CH	6.72	6.87	-	-	

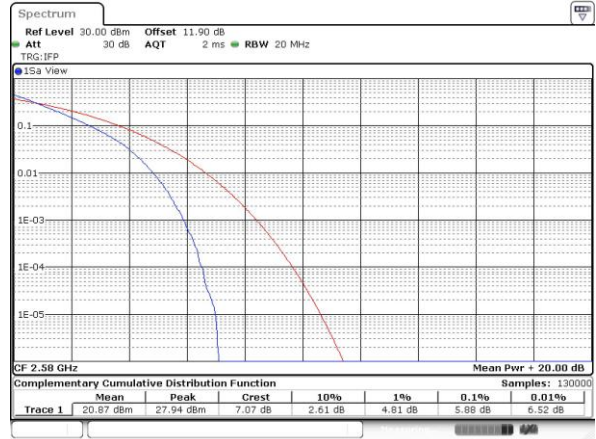


LTE Band 38 / 20MHz / QPSK

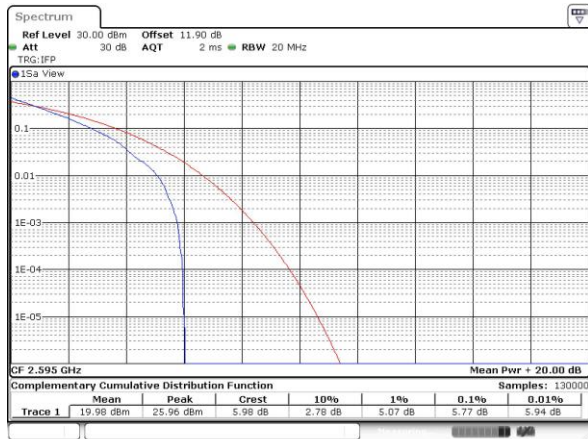
Lowest Channel / 1RB



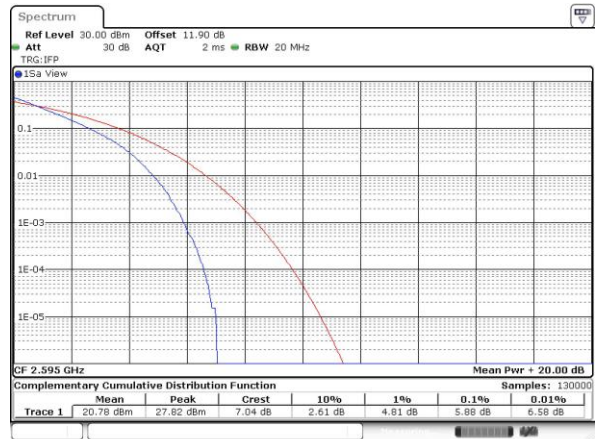
Lowest Channel / Full RB



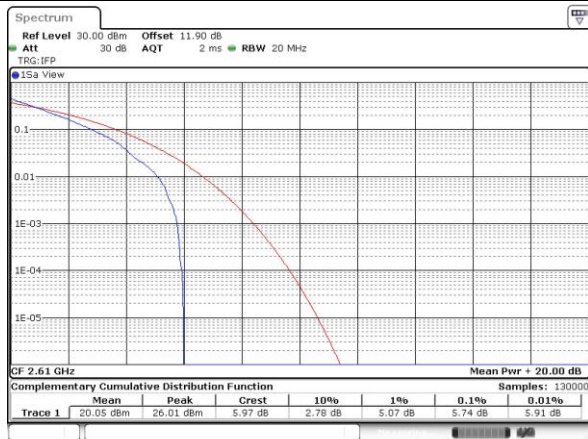
Middle Channel / 1RB



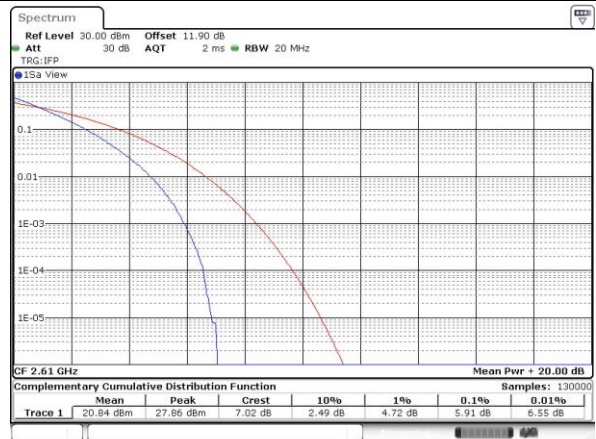
Middle Channel / Full RB



Highest Channel / 1RB



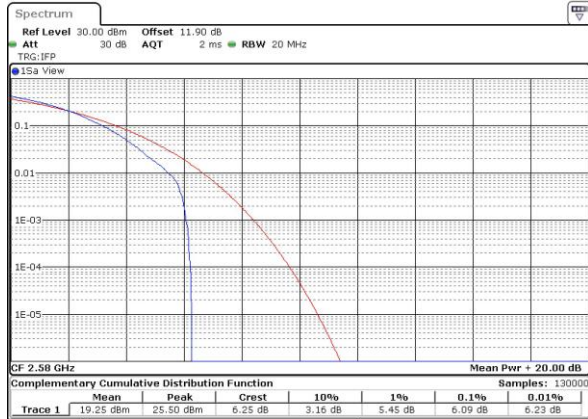
Highest Channel / Full RB



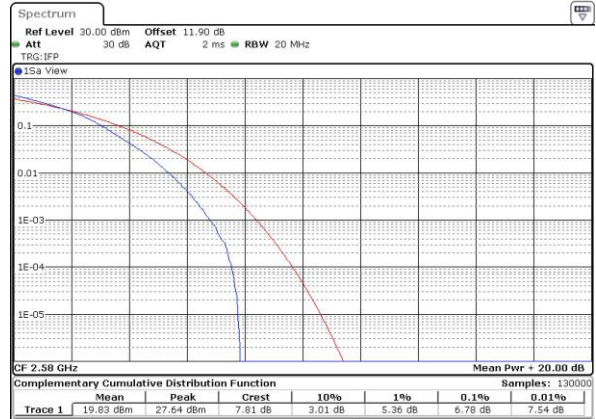


LTE Band 38 / 20MHz / 16QAM

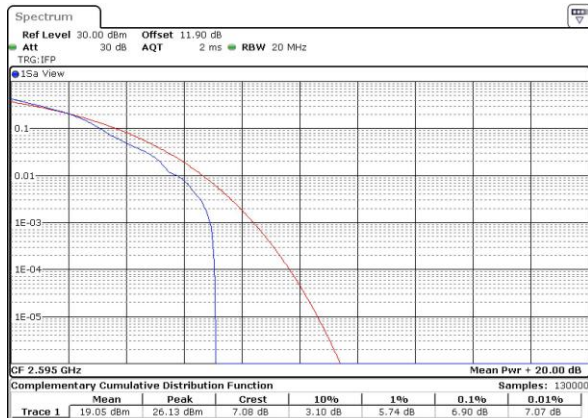
Lowest Channel / 1RB



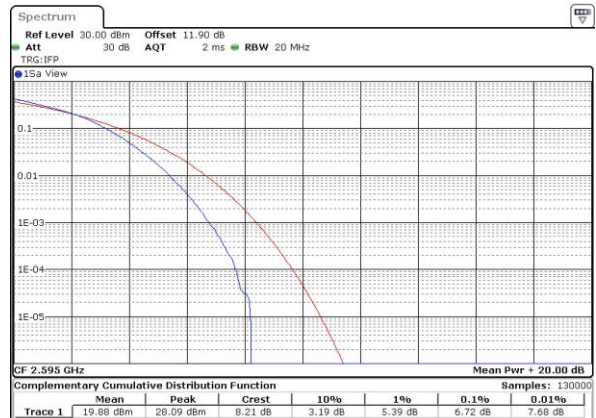
Lowest Channel / Full RB



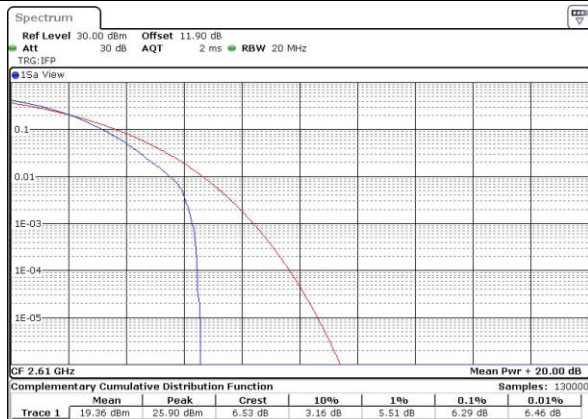
Middle Channel / 1RB



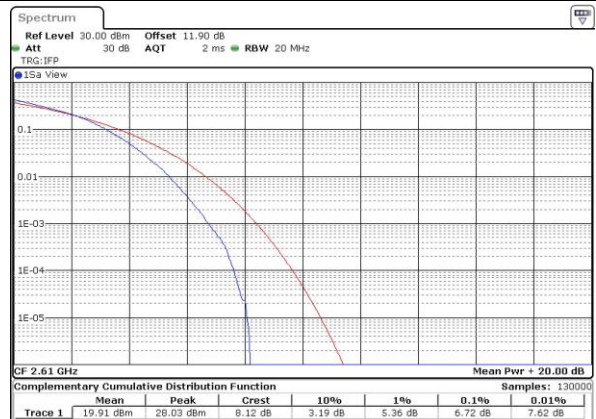
Middle Channel / Full RB



Highest Channel / 1RB



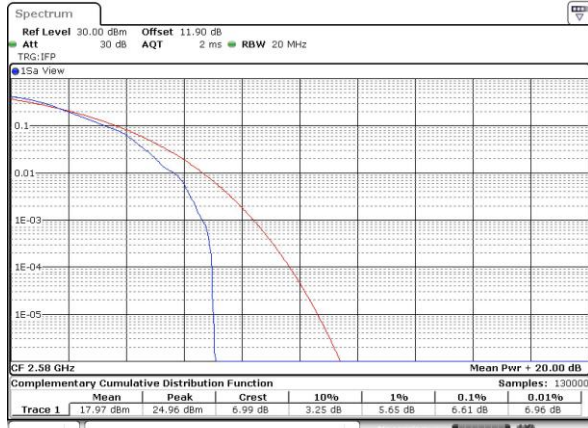
Highest Channel / Full RB



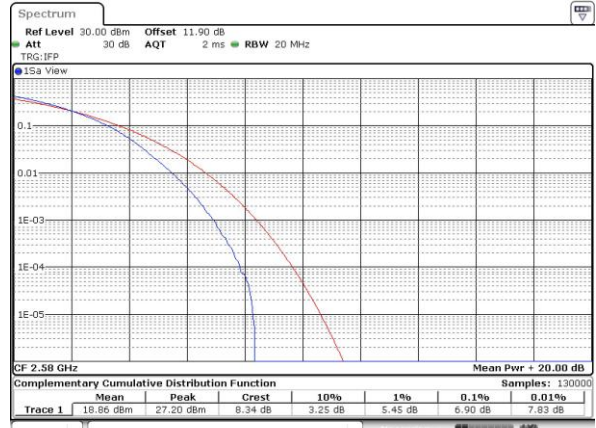


LTE Band 38 / 20MHz / 64QAM

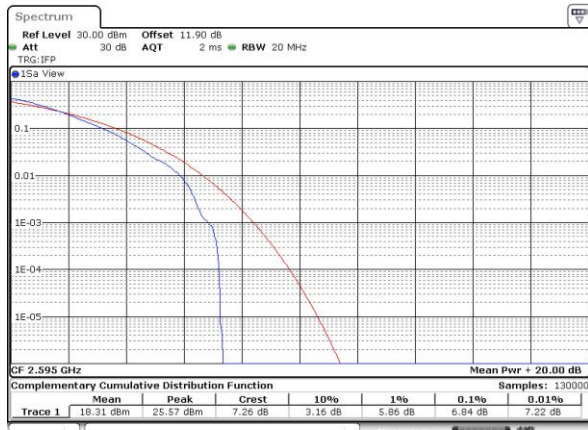
Lowest Channel / 1RB



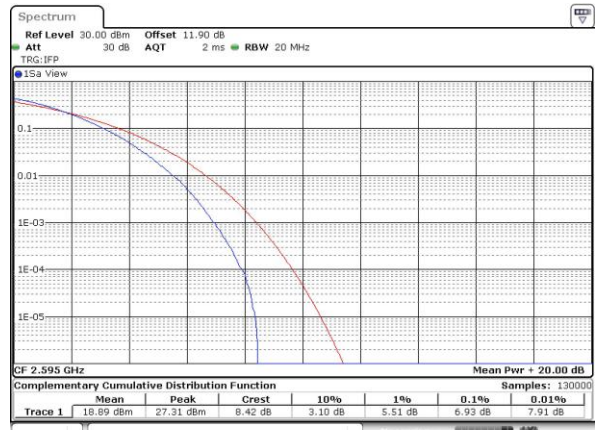
Lowest Channel / Full RB



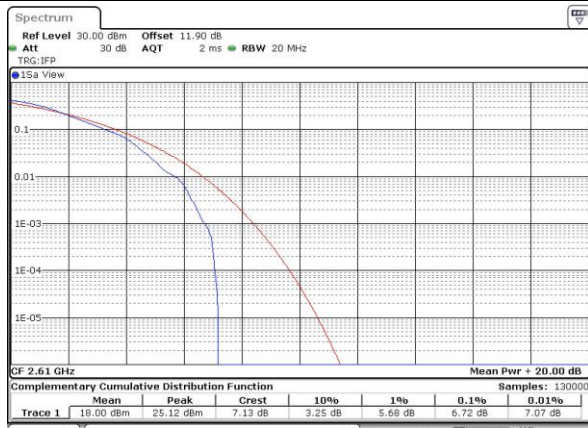
Middle Channel / 1RB



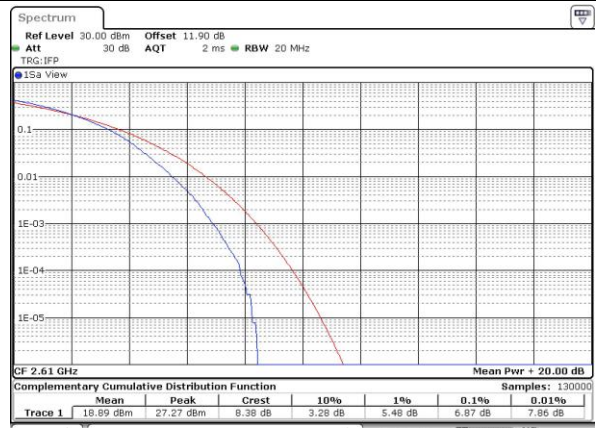
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



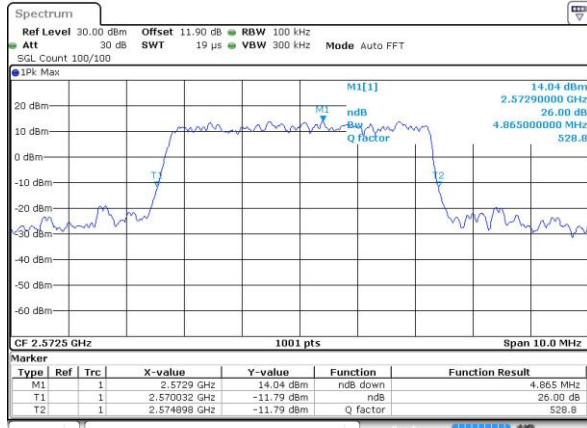
**26dB Bandwidth**

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	-	-	-	-	4.87	4.80	9.65	9.79	14.15	14.27	20.18	20.14
Middle CH	-	-	-	-	4.82	4.96	9.73	9.65	14.21	14.39	20.14	20.18
Highest CH	-	-	-	-	4.84	4.93	9.71	9.73	14.15	14.15	20.26	20.10
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.73	-	9.65	-	14.27	-	20.18	-
Middle CH	-	-	-	-	4.86	-	9.63	-	14.15	-	20.26	-
Highest CH	-	-	-	-	4.86	-	9.83	-	14.27	-	20.06	-



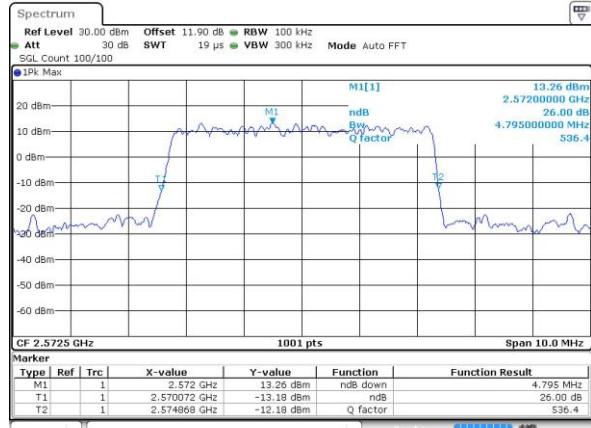
LTE Band 38

Lowest Channel / 5MHz / QPSK



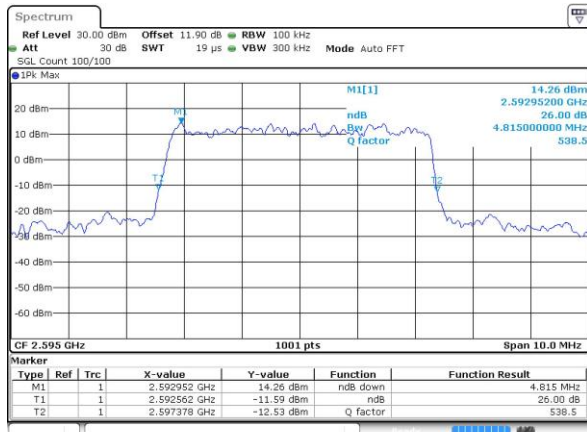
Date: 13 JUN 2018 14:00:49

Lowest Channel / 5MHz / 16QAM



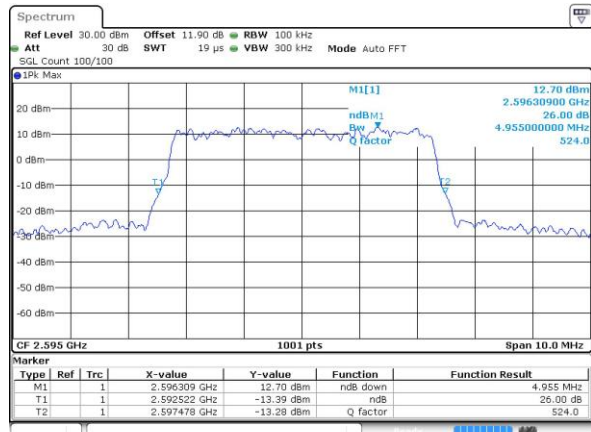
Date: 13 JUN 2018 14:00:59

Middle Channel / 5MHz / QPSK



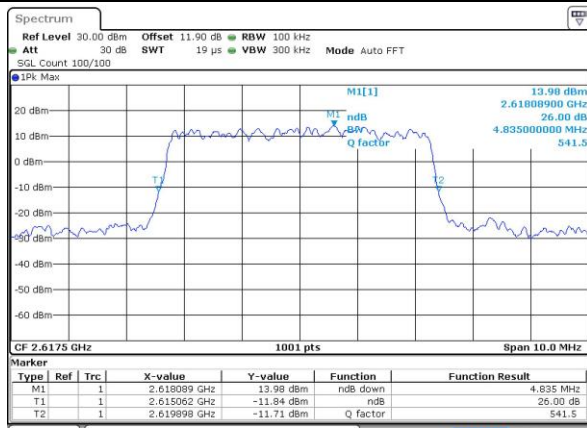
Date: 13 JUN 2018 14:01:31

Middle Channel / 5MHz / 16QAM



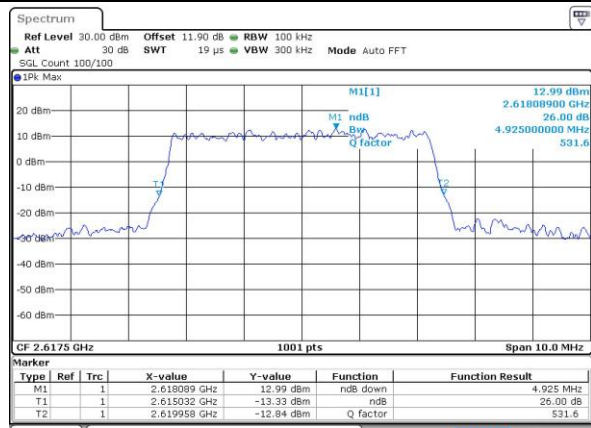
Date: 13 JUN 2018 14:01:41

Highest Channel / 5MHz / QPSK



Date: 13 JUN 2018 14:02:13

Highest Channel / 5MHz / 16QAM

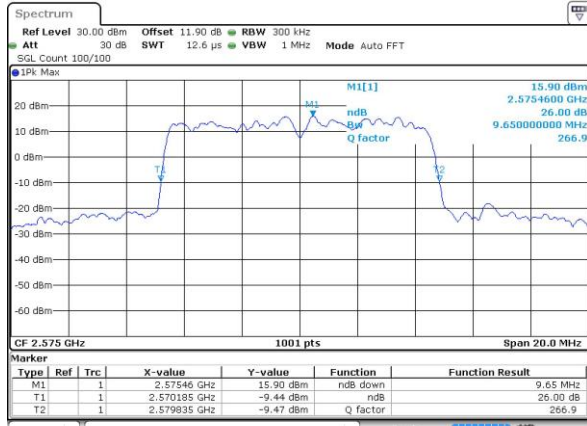


Date: 13 JUN 2018 14:02:23



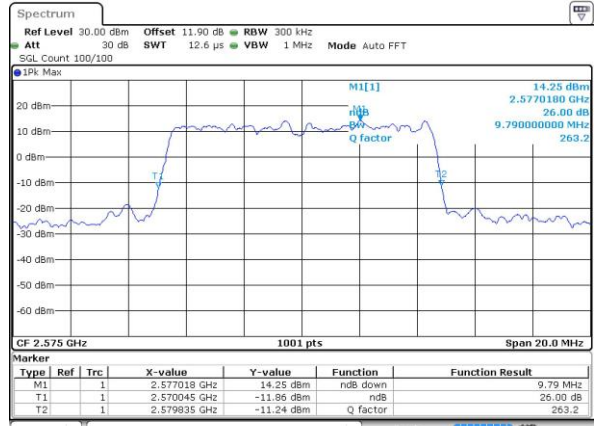
LTE Band 38

Lowest Channel / 10MHz / QPSK



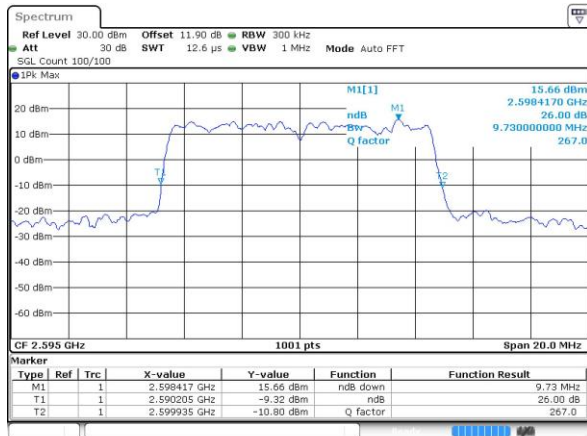
Date: 13 JUN 2018 14:02:55

Lowest Channel / 10MHz / 16QAM



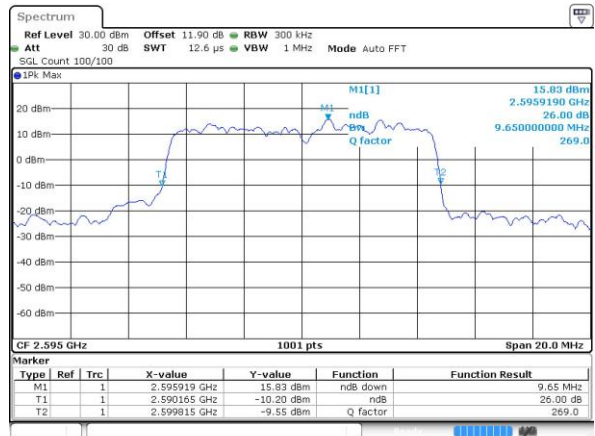
Date: 13 JUN 2018 14:03:05

Middle Channel / 10MHz / QPSK



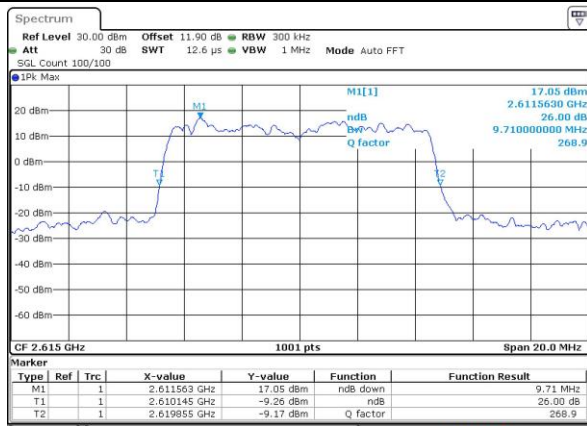
Date: 13 JUN 2018 14:03:37

Middle Channel / 10MHz / 16QAM



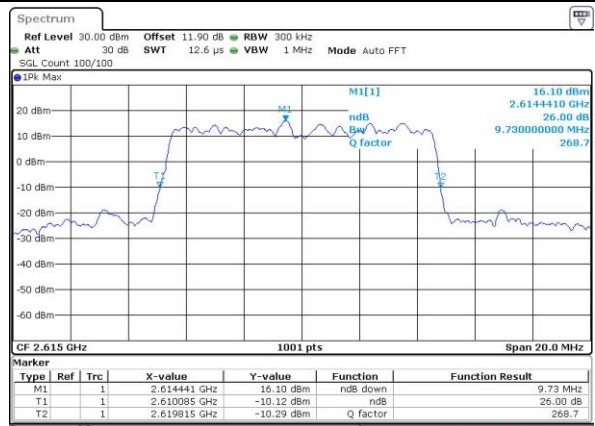
Date: 13 JUN 2018 14:03:48

Highest Channel / 10MHz / QPSK



Date: 13 JUN 2018 14:04:19

Highest Channel / 10MHz / 16QAM

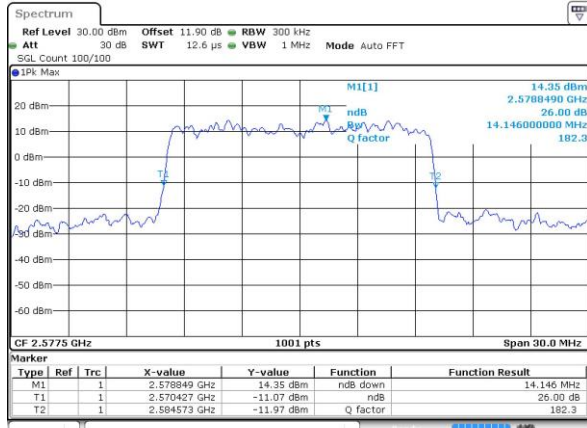


Date: 13 JUN 2018 14:04:30



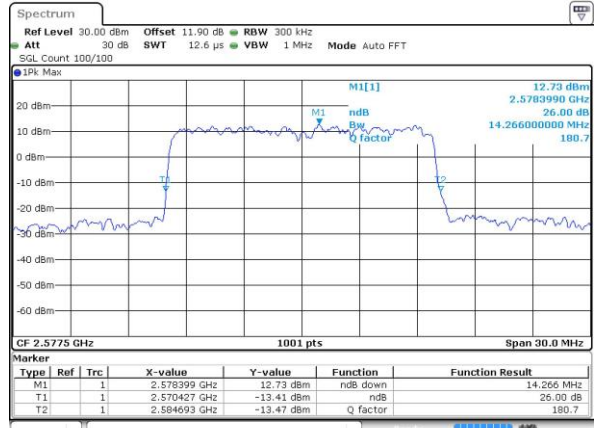
LTE Band 38

Lowest Channel / 15MHz / QPSK



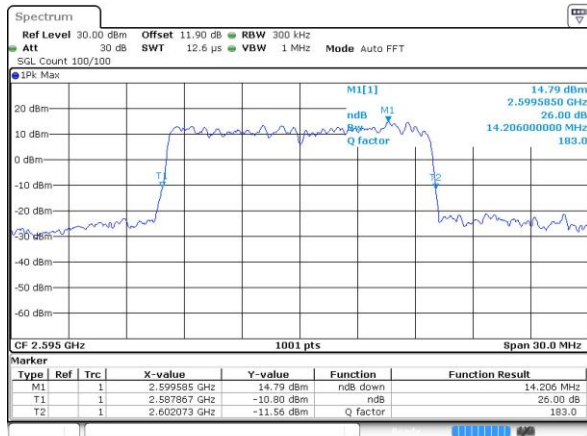
Date: 13 JUN 2018 14:05:01

Lowest Channel / 15MHz / 16QAM



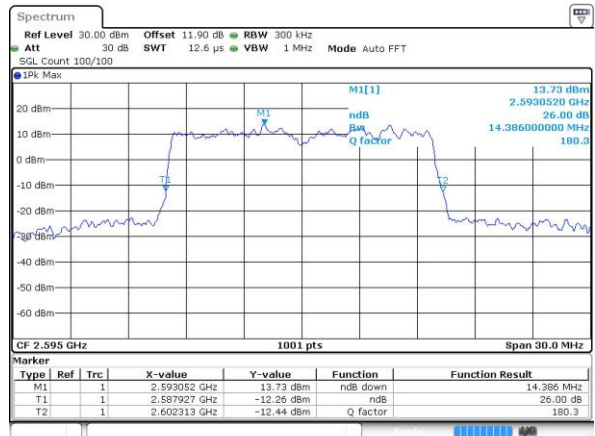
Date: 13 JUN 2018 14:05:12

Middle Channel / 15MHz / QPSK



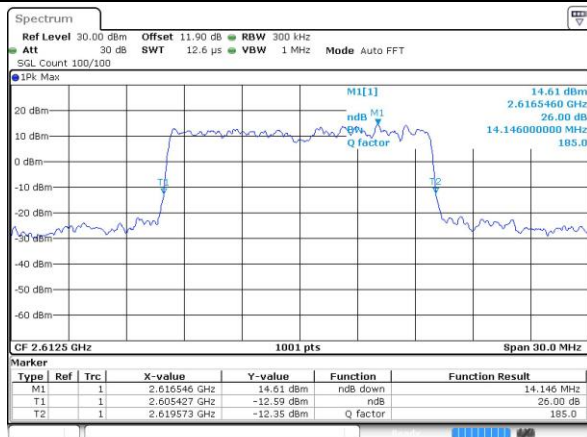
Date: 13 JUN 2018 14:05:43

Middle Channel / 15MHz / 16QAM



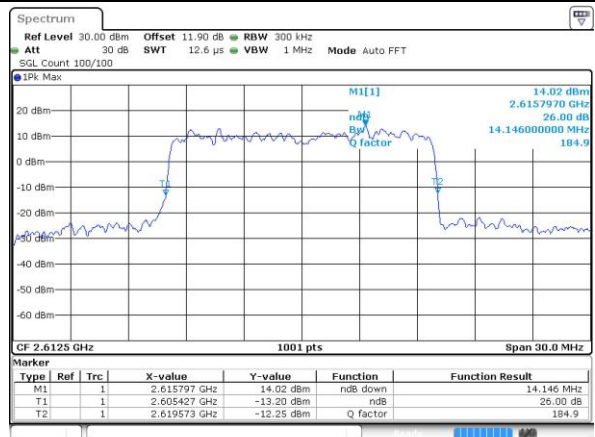
Date: 13 JUN 2018 15:02:46

Highest Channel / 15MHz / QPSK



Date: 13 JUN 2018 14:06:25

Highest Channel / 15MHz / 16QAM

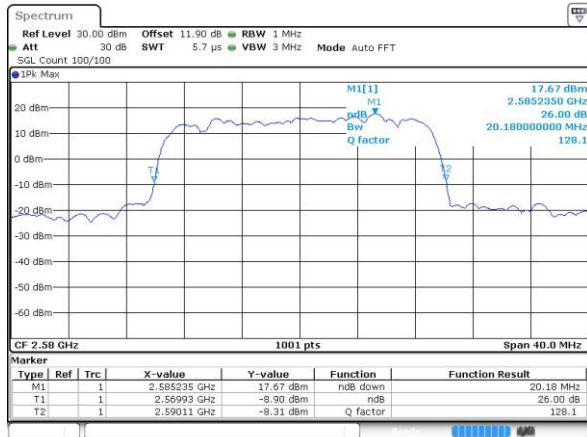


Date: 13 JUN 2018 14:06:35

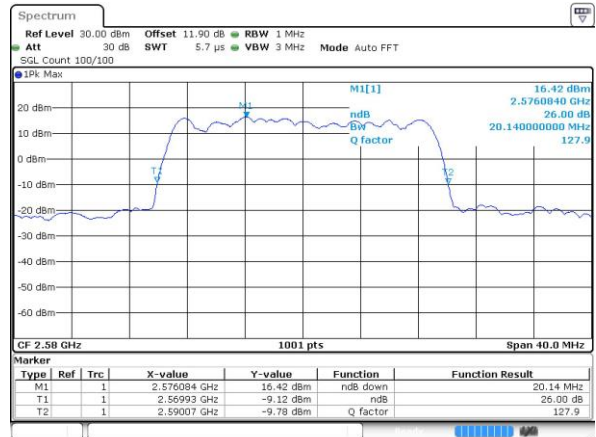


LTE Band 38

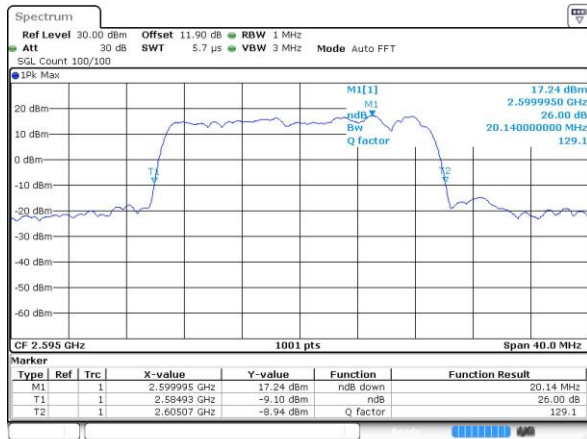
Lowest Channel / 20MHz / QPSK



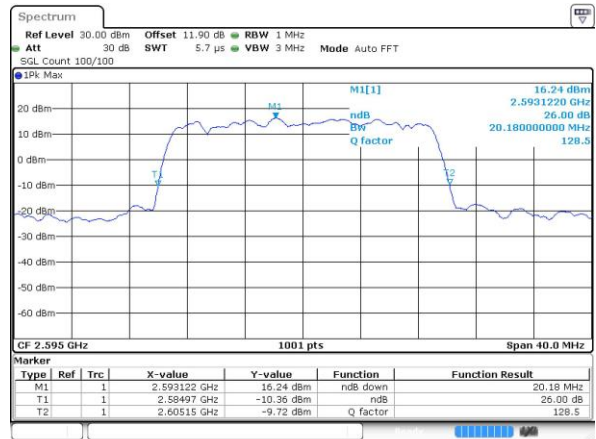
Lowest Channel / 20MHz / 16QAM



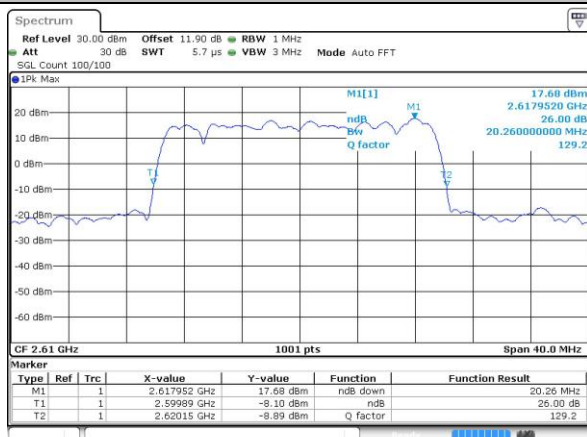
Middle Channel / 20MHz / QPSK



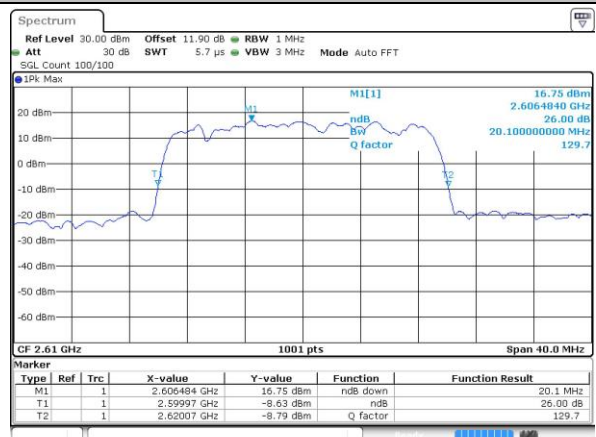
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



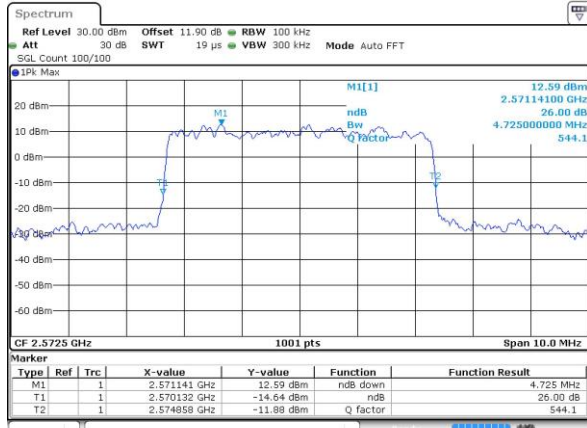
Highest Channel / 20MHz / 16QAM





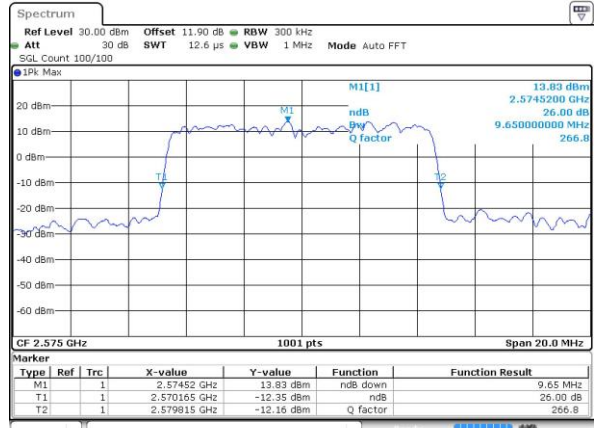
LTE Band 38

Lowest Channel / 5MHz / 64QAM



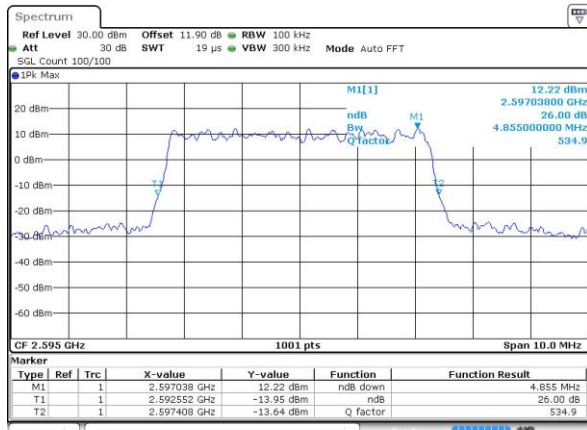
Date: 13 JUN 2018 14:09:02

Lowest Channel / 10MHz / 64QAM



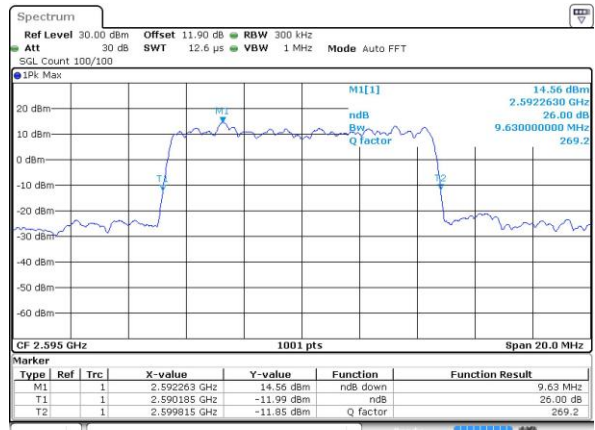
Date: 13 JUN 2018 14:10:05

Middle Channel / 5MHz / 64QAM



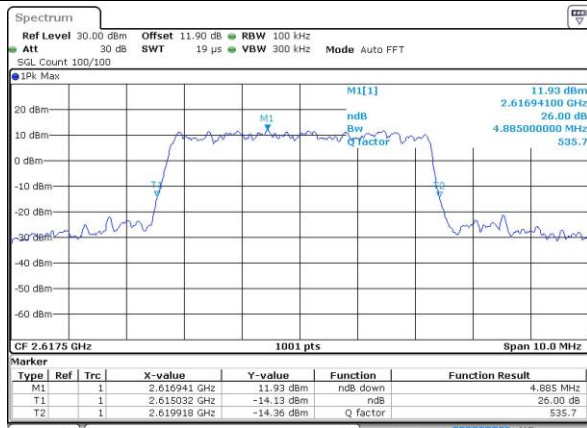
Date: 13 JUN 2018 14:09:23

Middle Channel / 10MHz / 64QAM



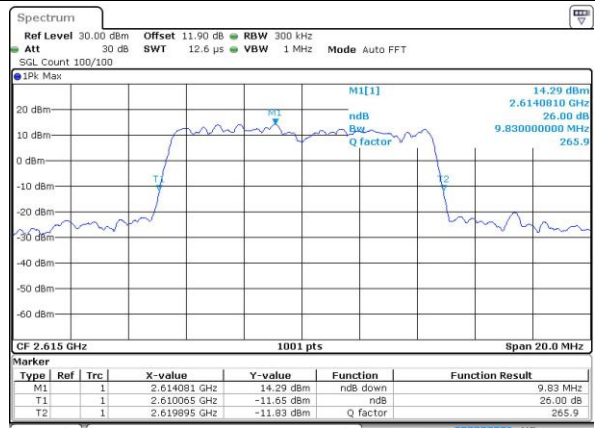
Date: 13 JUN 2018 15:52:15

Highest Channel / 5MHz / 64QAM



Date: 13 JUN 2018 14:09:44

Highest Channel / 10MHz / 64QAM

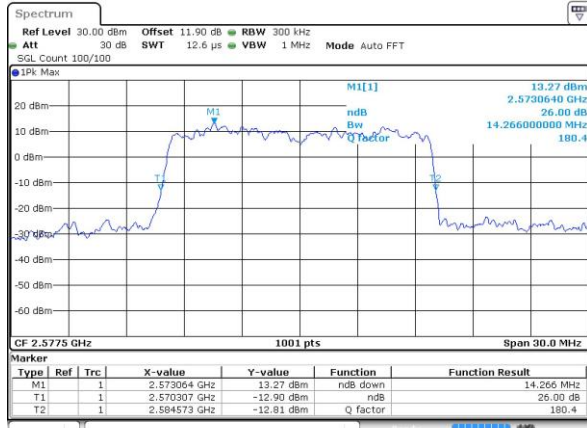


Date: 13 JUN 2018 14:10:48



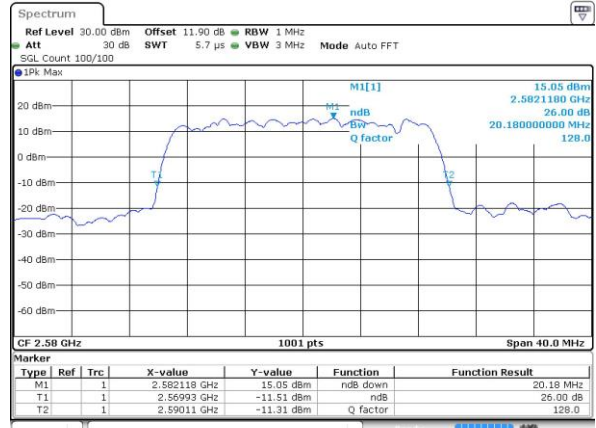
LTE Band 38

Lowest Channel / 15MHz / 64QAM



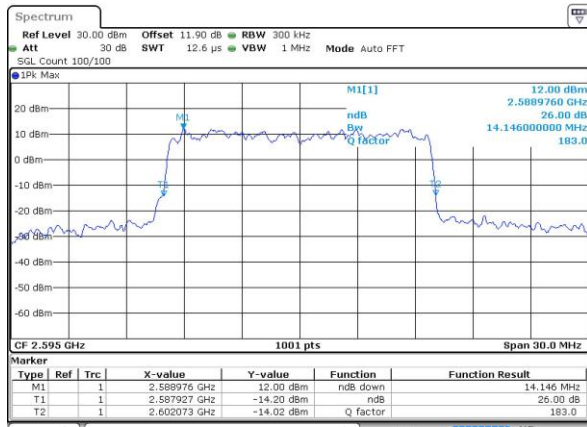
Date: 13 JUN 2018 14:11:09

Lowest Channel / 20MHz / 64QAM



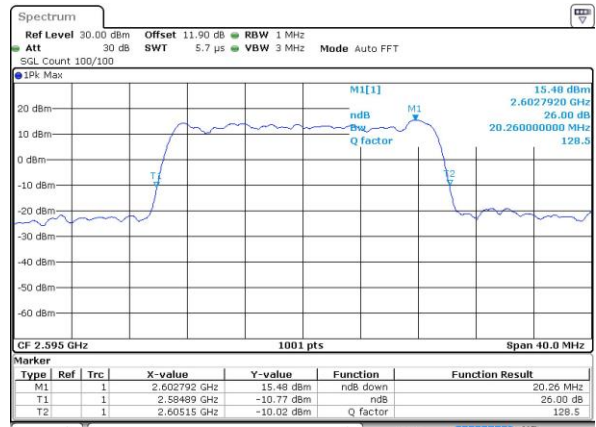
Date: 13 JUN 2018 14:12:12

Middle Channel / 15MHz / 64QAM



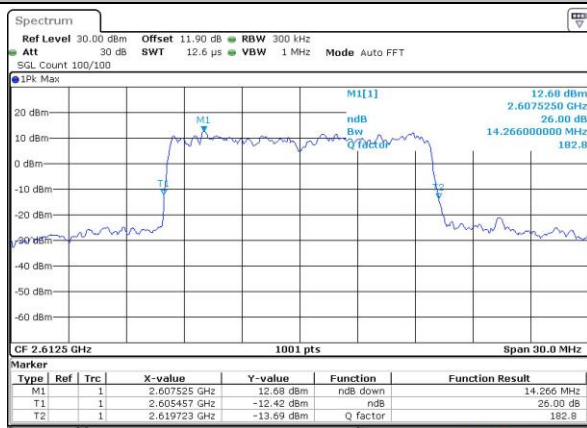
Date: 13 JUN 2018 14:11:30

Middle Channel / 20MHz / 64QAM



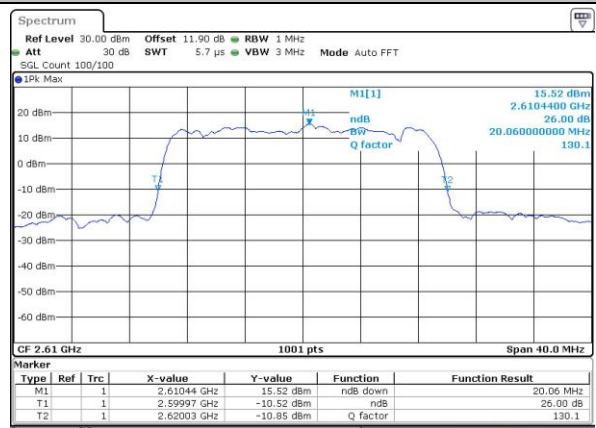
Date: 13 JUN 2018 14:12:33

Highest Channel / 15MHz / 64QAM



Date: 13 JUN 2018 14:11:51

Highest Channel / 20MHz / 64QAM



Date: 13 JUN 2018 14:12:54

**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	-	-	-	-	4.5	4.52	9.07	9.05	13.46	13.43	18.5	18.34
Middle CH	-	-	-	-	4.47	4.49	9.03	9.07	13.52	13.46	18.42	18.46
Highest CH	-	-	-	-	4.5	4.5	9.07	9.05	13.4	13.43	18.3	18.34
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	-	8.99	-	13.43	-	18.38	-
Middle CH	-	-	-	-	4.50	-	8.99	-	13.46	-	18.46	-
Highest CH	-	-	-	-	4.51	-	9.11	-	13.43	-	18.42	-