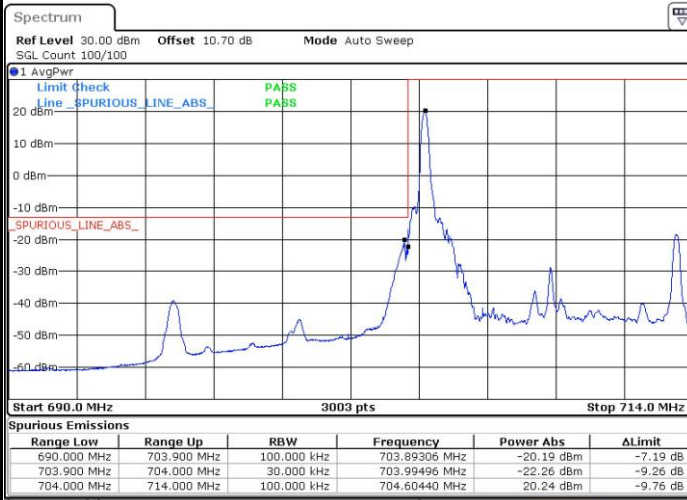




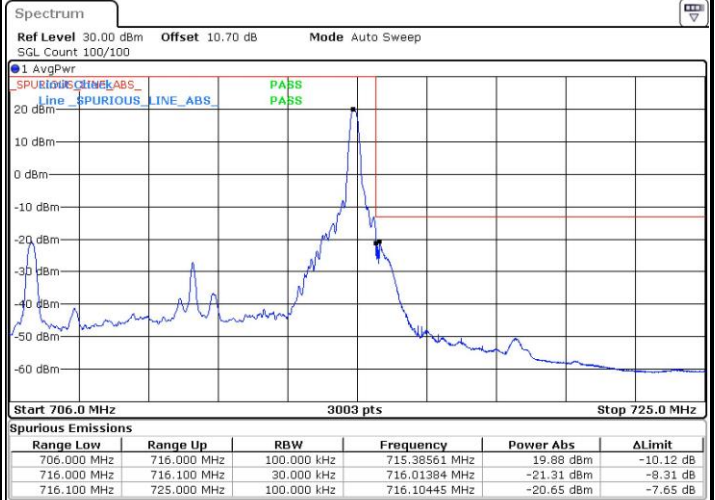
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



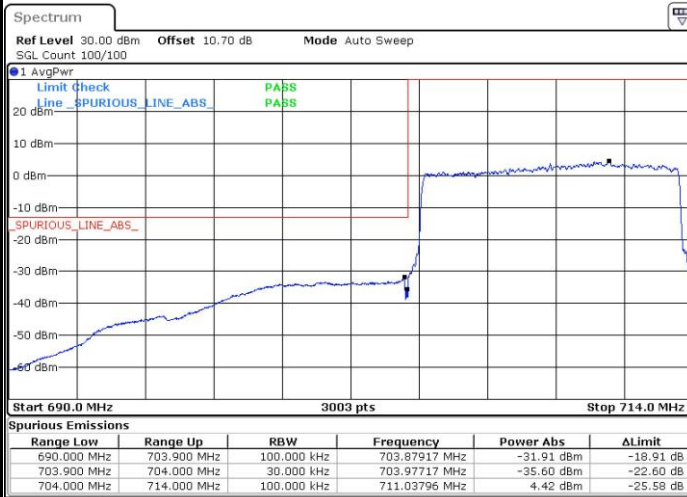
Date: 13 JUN 2018 10:27:50

Highest Band Edge / 1 RB



Date: 13 JUN 2018 10:37:28

Lowest Band Edge / Full RB



Date: 13 JUN 2018 10:30:08

Highest Band Edge / Full RB

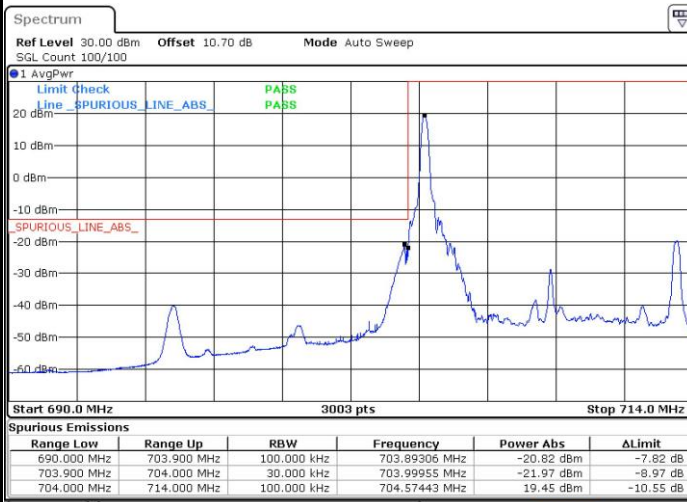


Date: 13 JUN 2018 10:39:46



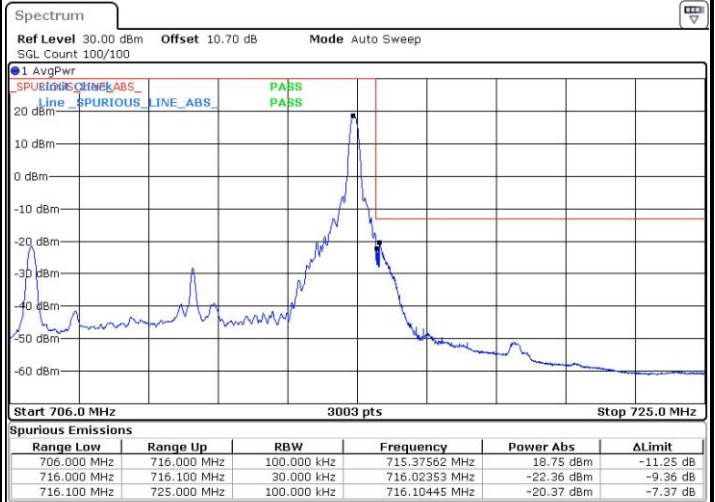
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



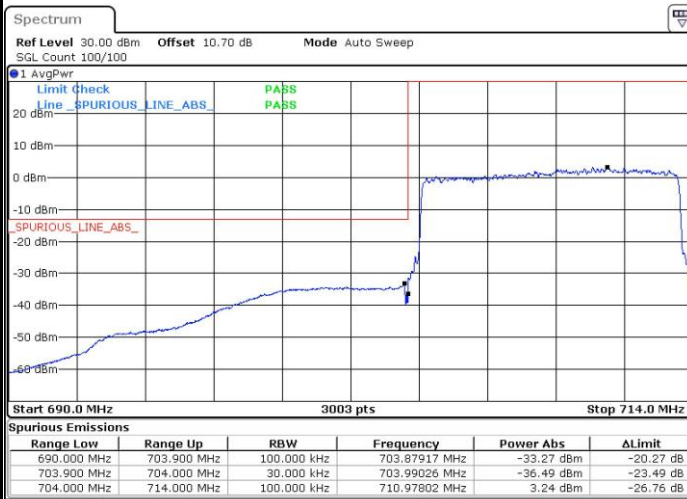
Date: 13 JUN 2018 10:28:59

Highest Band Edge / 1 RB



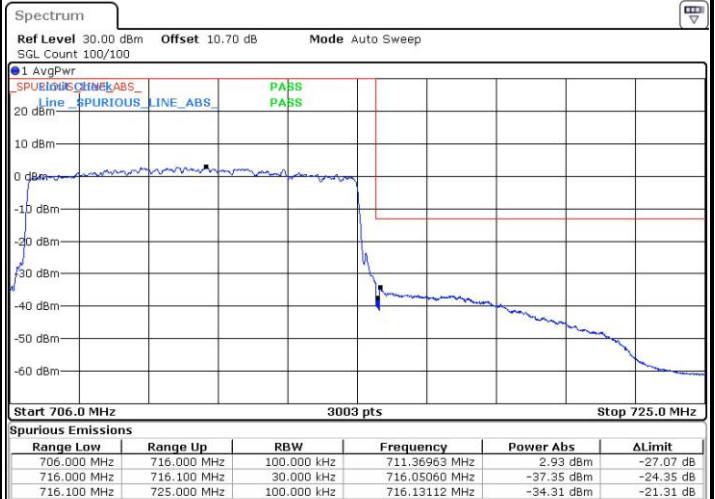
Date: 13 JUN 2018 10:38:37

Lowest Band Edge / Full RB



Date: 13 JUN 2018 10:31:17

Highest Band Edge / Full RB

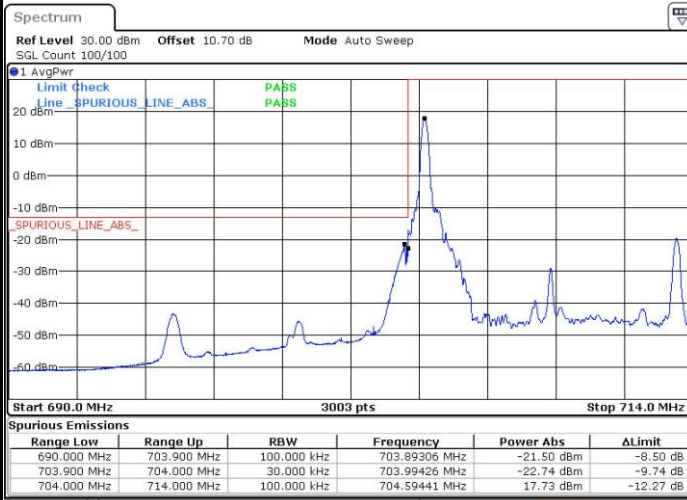


Date: 13 JUN 2018 10:40:55



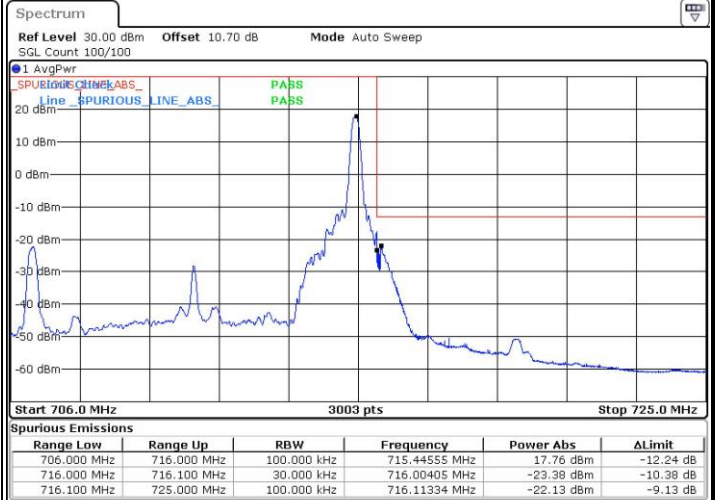
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



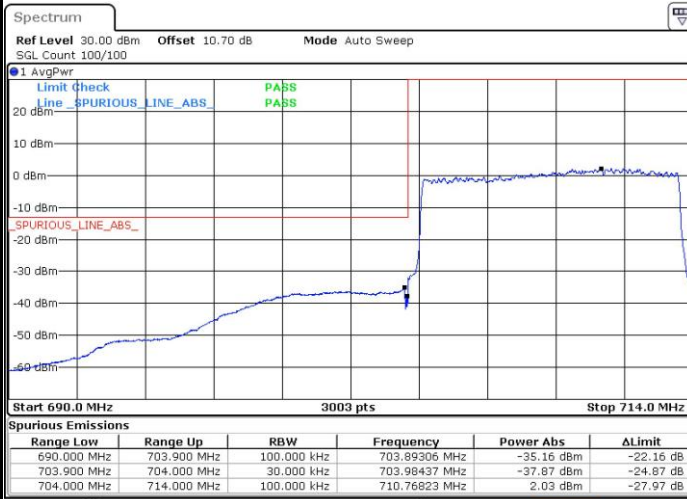
Date: 13 JUN 2018 10:52:37

Highest Band Edge / 1 RB



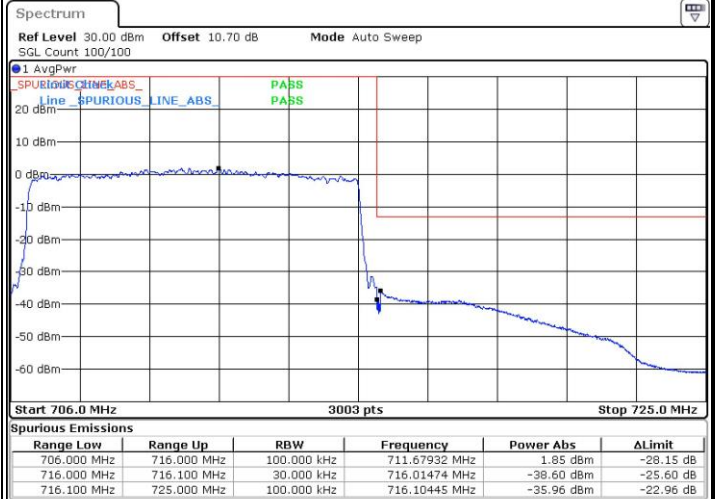
Date: 13 JUN 2018 10:57:27

Lowest Band Edge / Full RB



Date: 13 JUN 2018 10:53:46

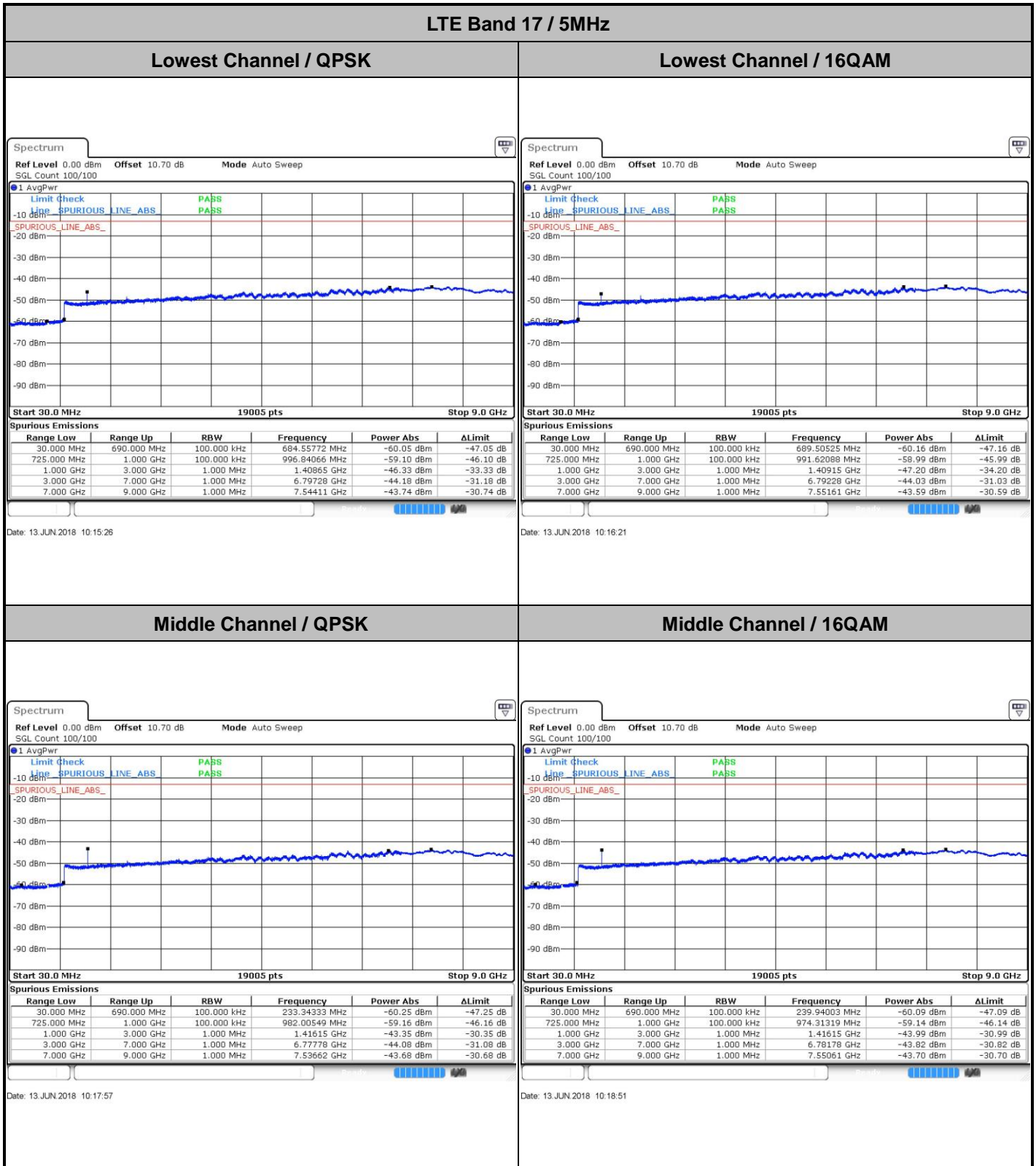
Highest Band Edge / Full RB



Date: 13 JUN 2018 10:58:36



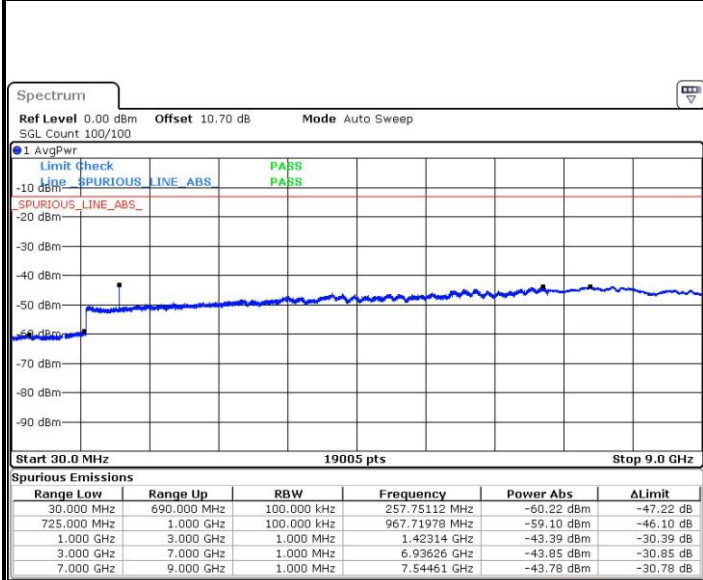
Conducted Spurious Emission





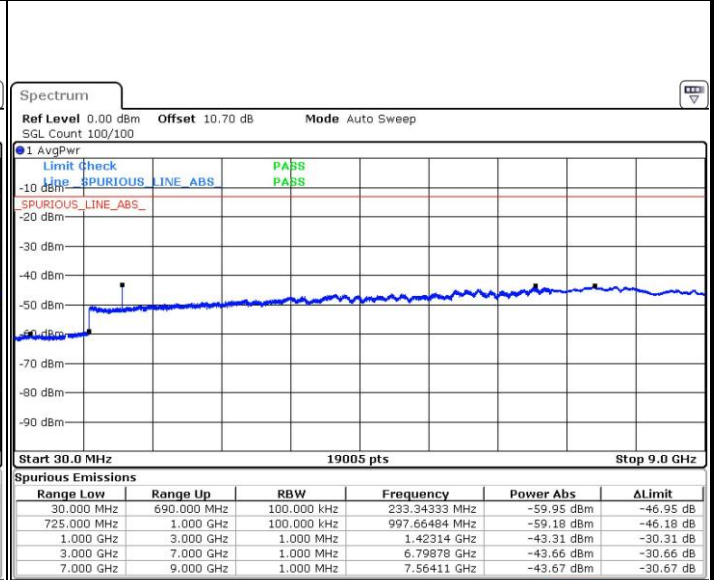
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 13 JUN 2018 10:25:05

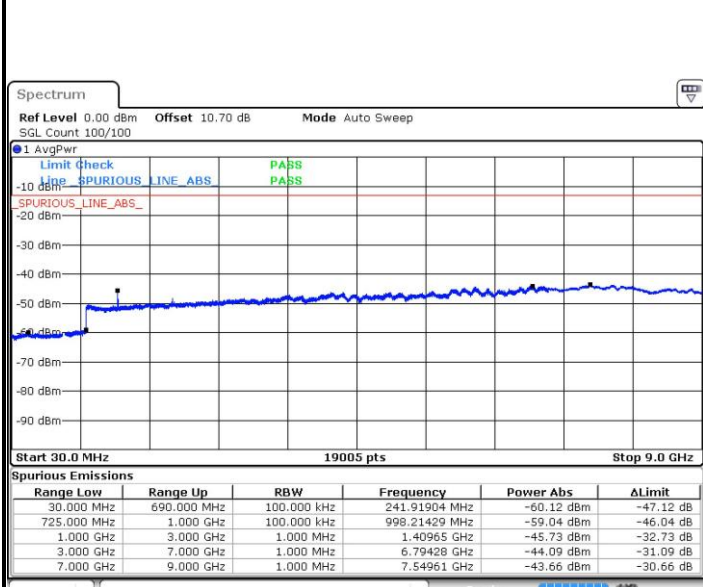
Highest Channel / 16QAM



Date: 13 JUN 2018 10:25:59

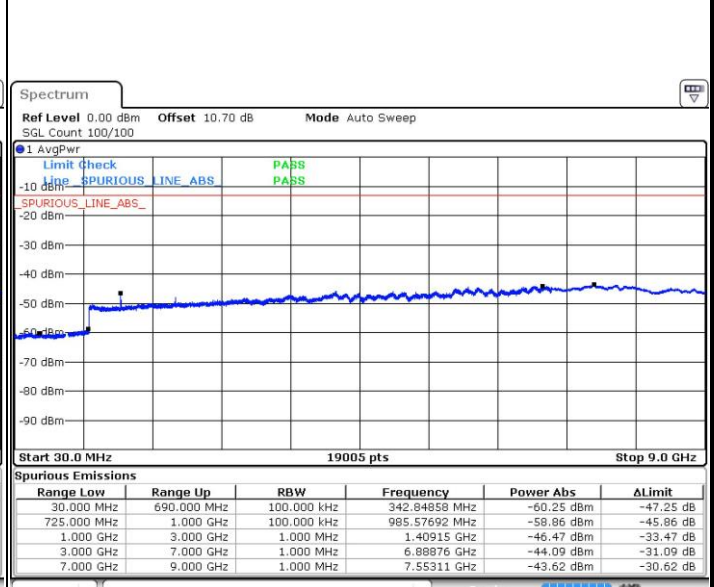
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 13 JUN 2018 10:32:12

Lowest Channel / 16QAM



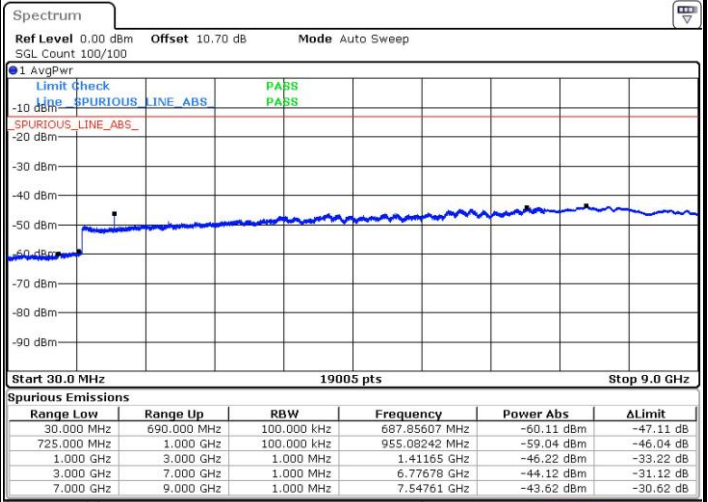
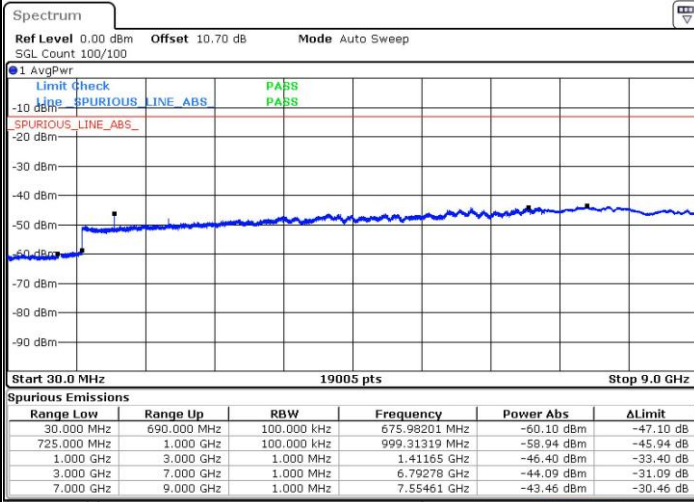
Date: 13 JUN 2018 10:33:06



LTE Band 17 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

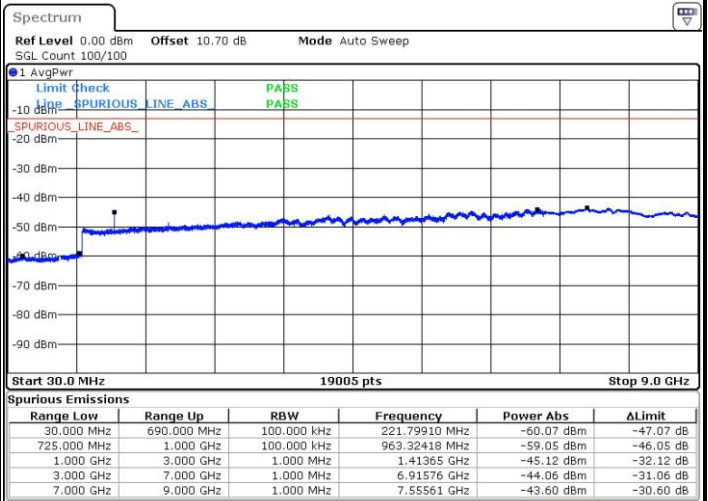
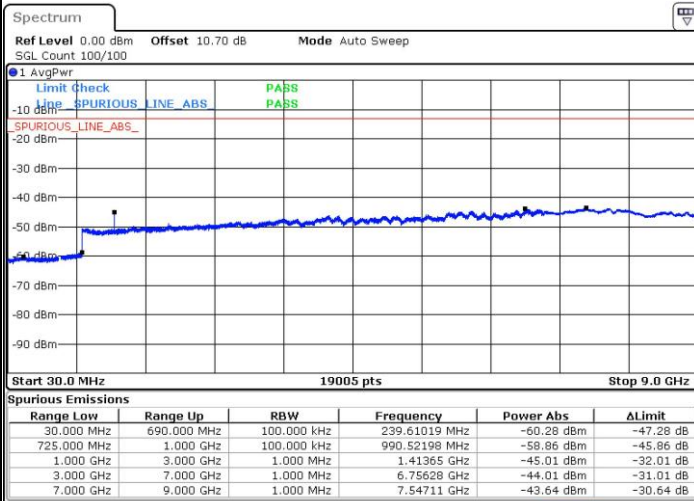


Date: 13 JUN 2018 10:34:43

Date: 13 JUN 2018 10:35:37

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13 JUN 2018 10:41:50

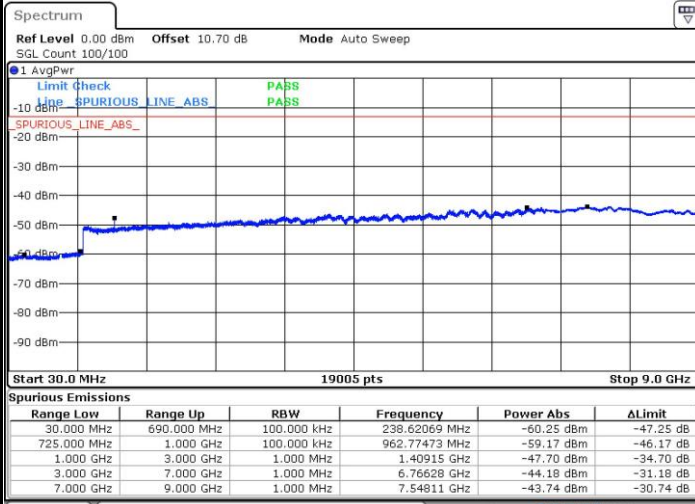
Date: 13 JUN 2018 10:42:44



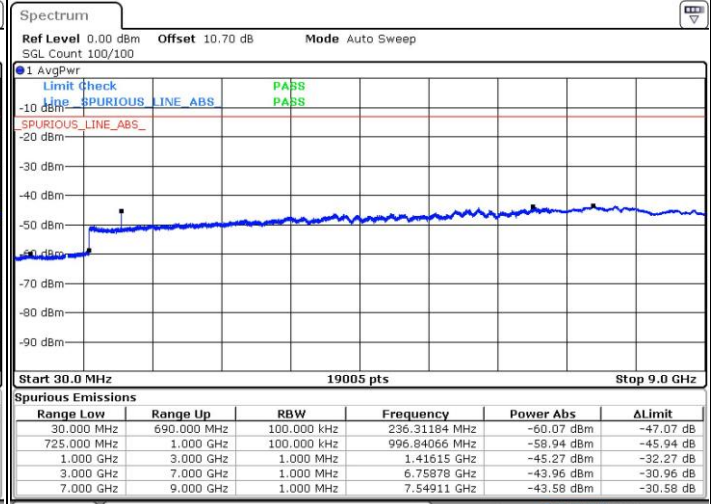
LTE Band 17 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

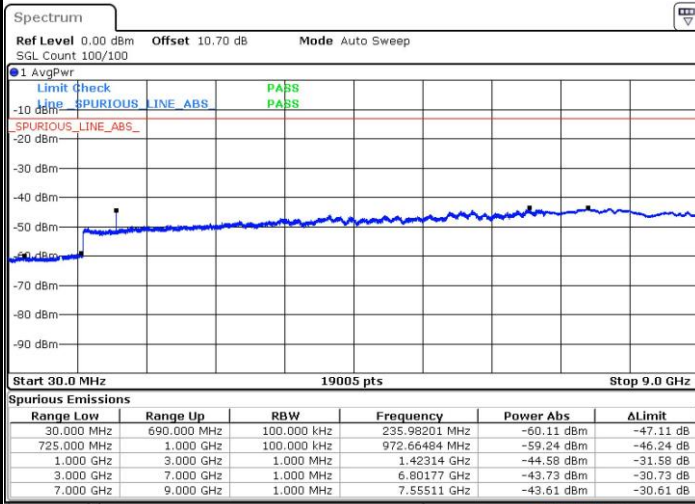


Date: 13 JUN 2018 10:46:18



Date: 13 JUN 2018 10:47:33

Highest Channel / 64QAM

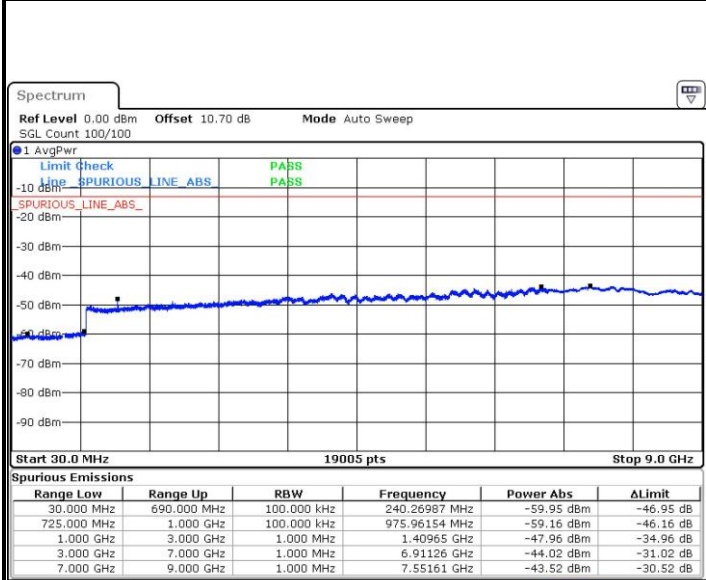


Date: 13 JUN 2018 10:51:07



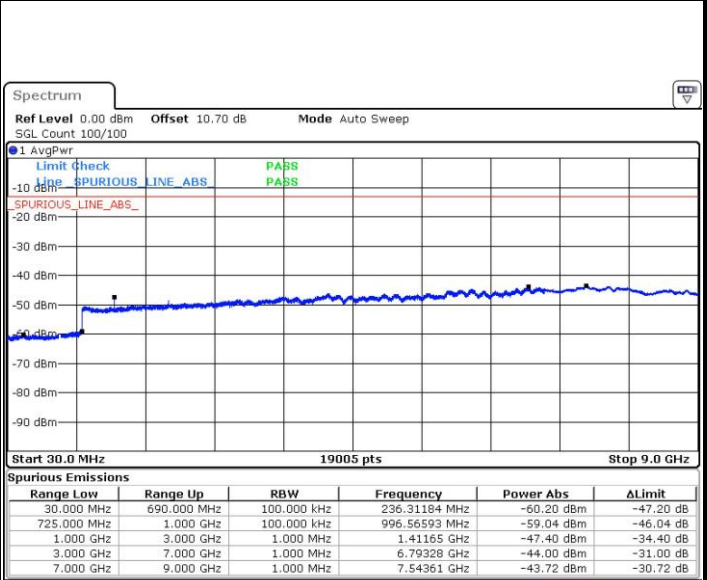
LTE Band 17 / 10MHz

Lowest Channel / 64QAM



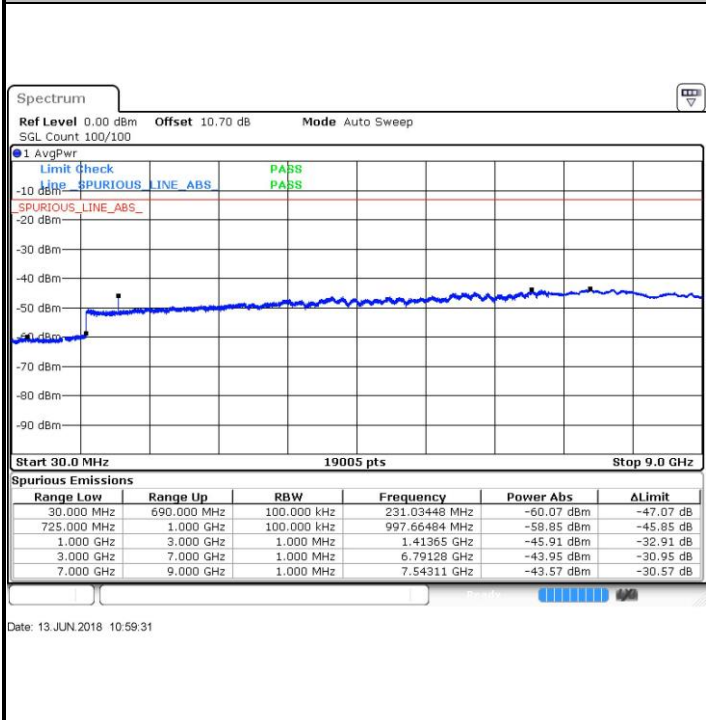
Date: 13 JUN 2018 10:54:41

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

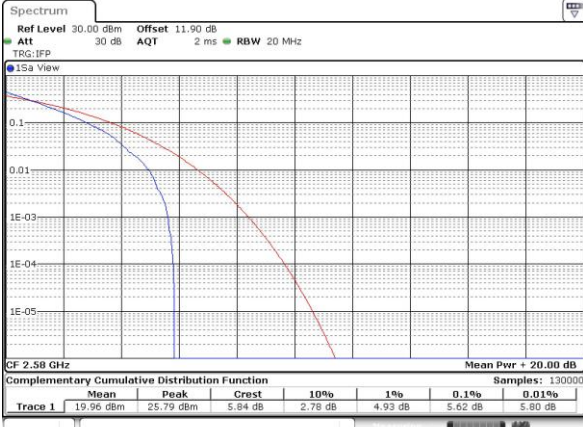
Peak-to-Average Ratio

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	-	-	



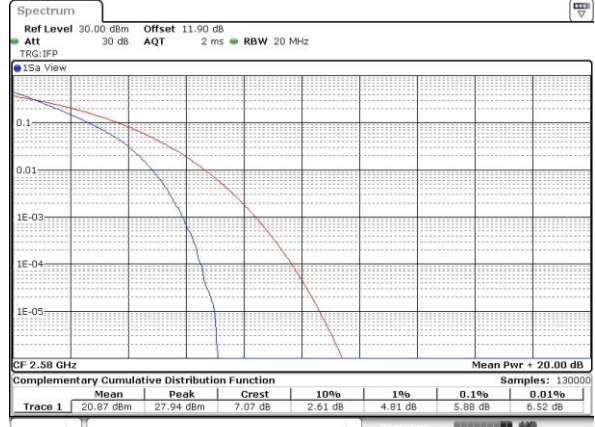
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



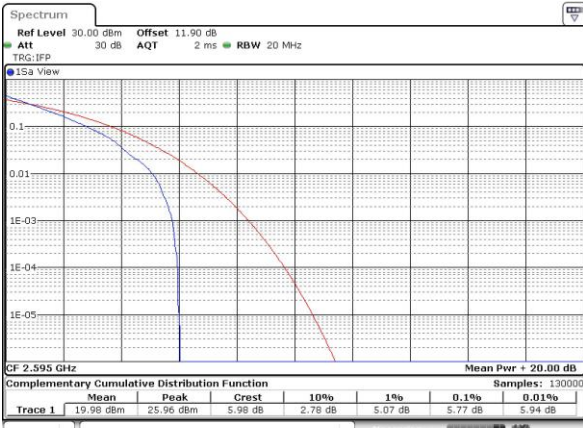
Date: 13 JUN 2018 14:20:15

Lowest Channel / Full RB



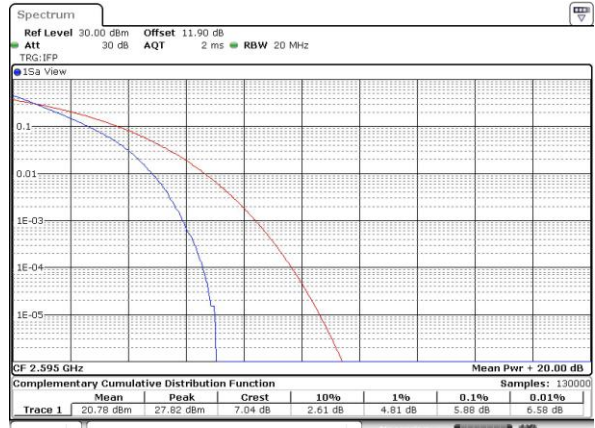
Date: 13 JUN 2018 14:20:54

Middle Channel / 1RB



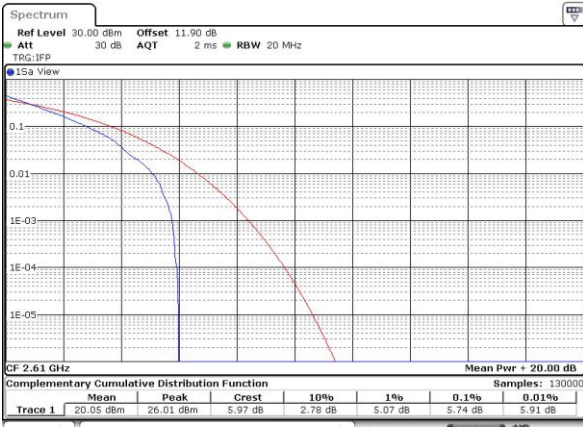
Date: 13 JUN 2018 14:21:08

Middle Channel / Full RB



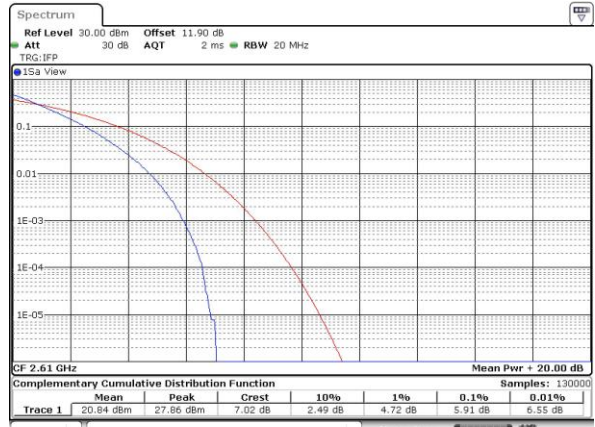
Date: 13 JUN 2018 14:21:29

Highest Channel / 1RB



Date: 13 JUN 2018 14:21:56

Highest Channel / Full RB

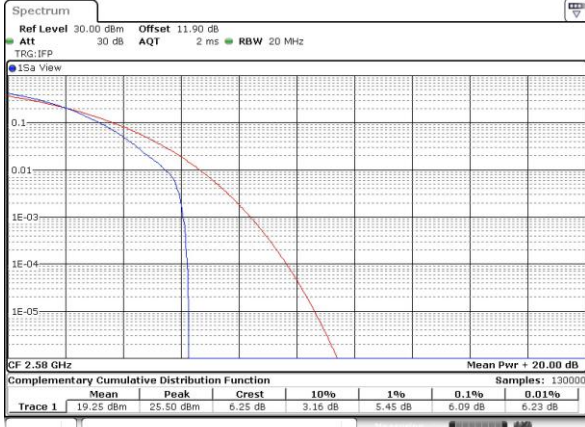


Date: 13 JUN 2018 14:22:11



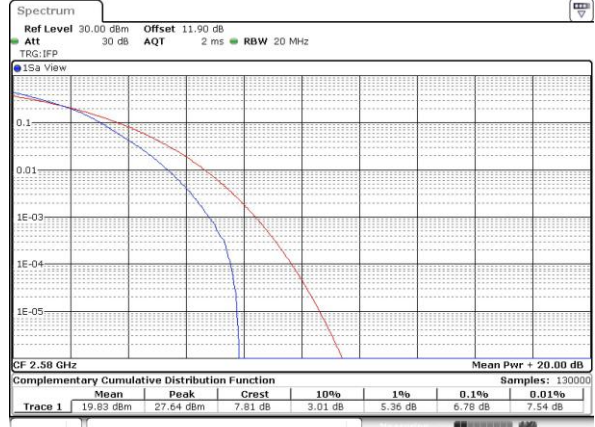
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



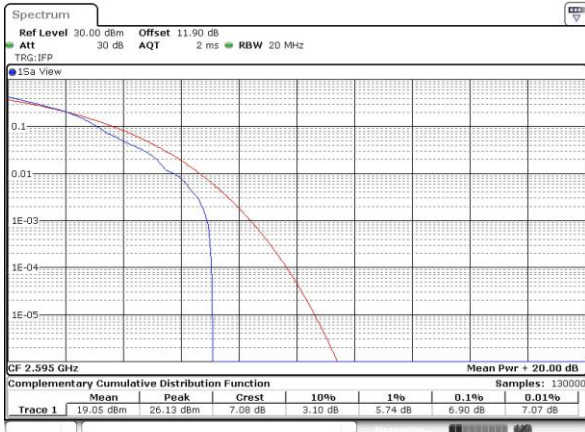
Date: 13 JUN 2018 14:17:28

Lowest Channel / Full RB



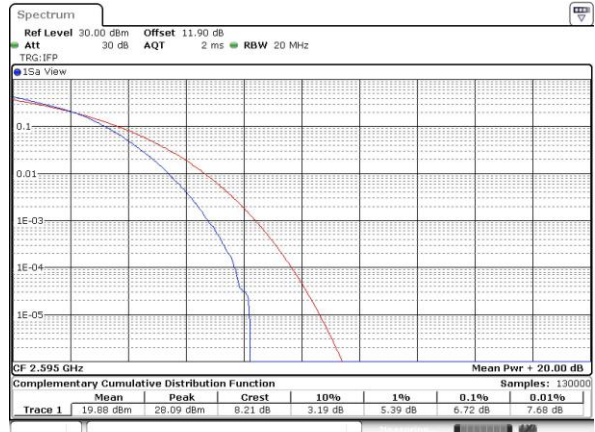
Date: 13 JUN 2018 14:17:44

Middle Channel / 1RB



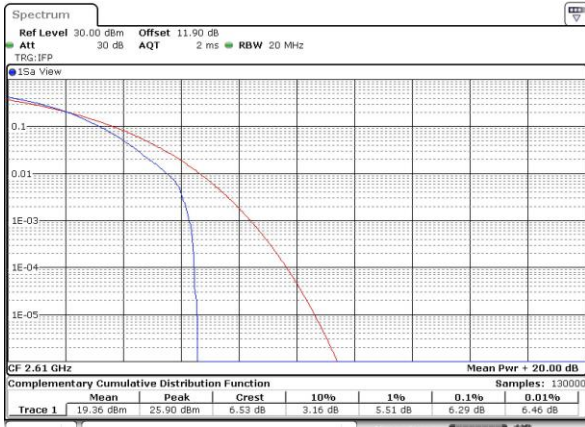
Date: 13 JUN 2018 14:18:05

Middle Channel / Full RB



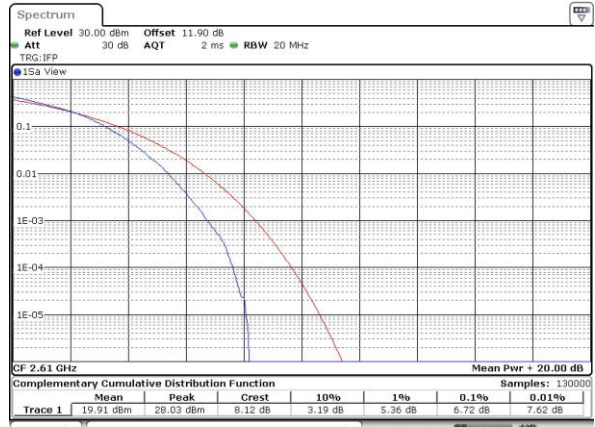
Date: 13 JUN 2018 14:18:20

Highest Channel / 1RB



Date: 13 JUN 2018 14:18:44

Highest Channel / Full RB

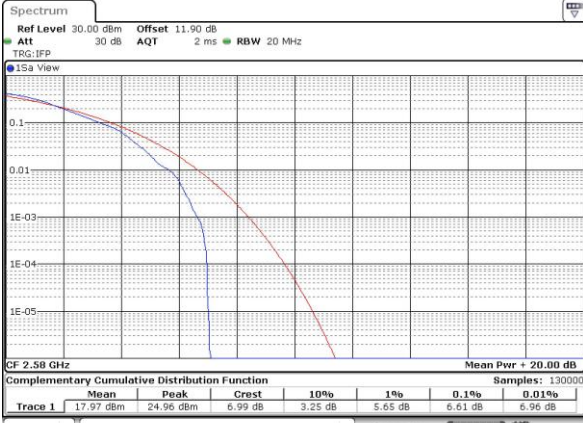


Date: 13 JUN 2018 14:19:16



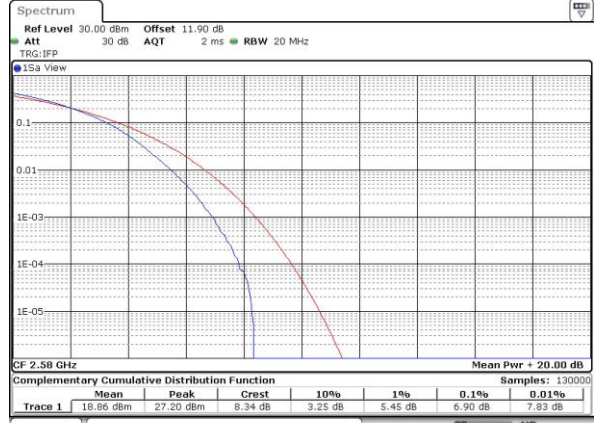
LTE Band 38 / 20MHz / 64QAM

Lowest Channel / 1RB



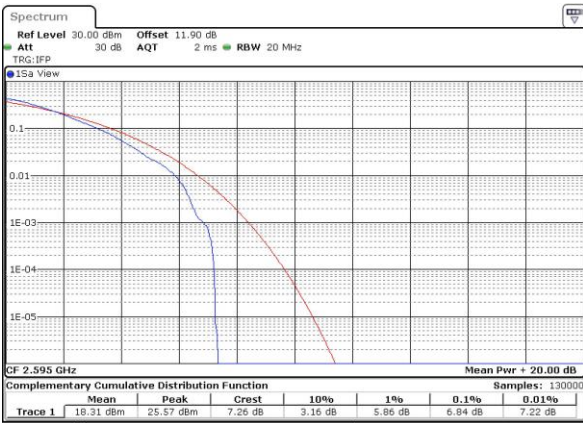
Date: 13 JUN 2018 14:14:16

Lowest Channel / Full RB



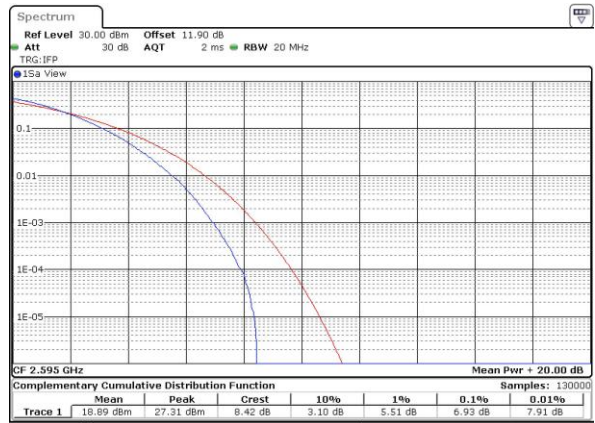
Date: 13 JUN 2018 14:14:31

Middle Channel / 1RB



Date: 13 JUN 2018 14:14:49

Middle Channel / Full RB



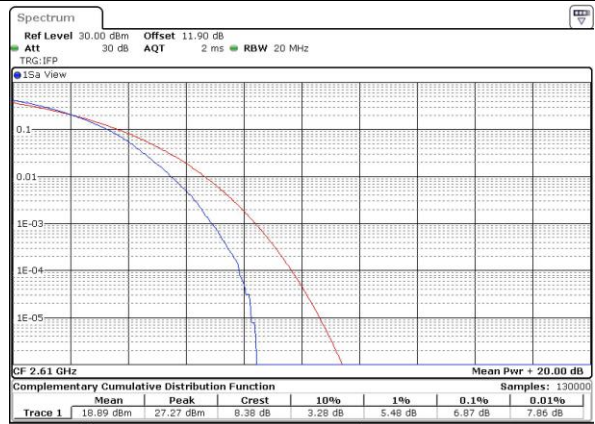
Date: 13 JUN 2018 14:15:03

Highest Channel / 1RB



Date: 13 JUN 2018 14:16:04

Highest Channel / Full RB



Date: 13 JUN 2018 14:17:00



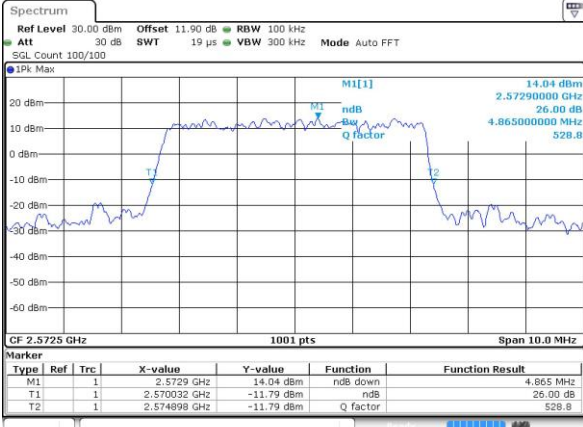
26dB Bandwidth

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	-



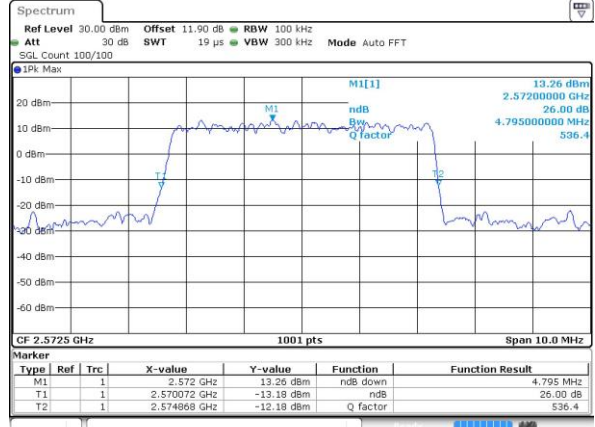
LTE Band 38

Lowest Channel / 5MHz / QPSK



Date: 13 JUN 2018 14:00:49

Lowest Channel / 5MHz / 16QAM



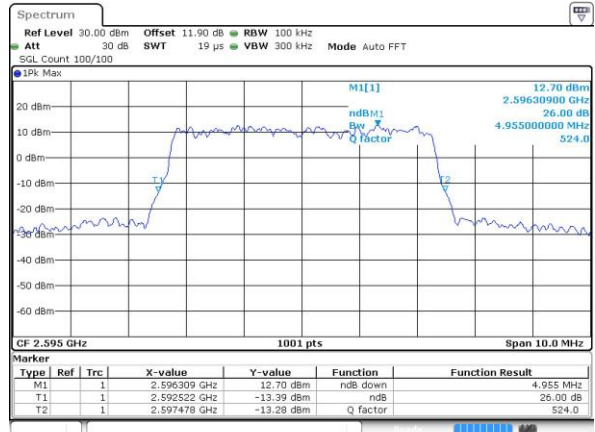
Date: 13 JUN 2018 14:00:59

Middle Channel / 5MHz / QPSK



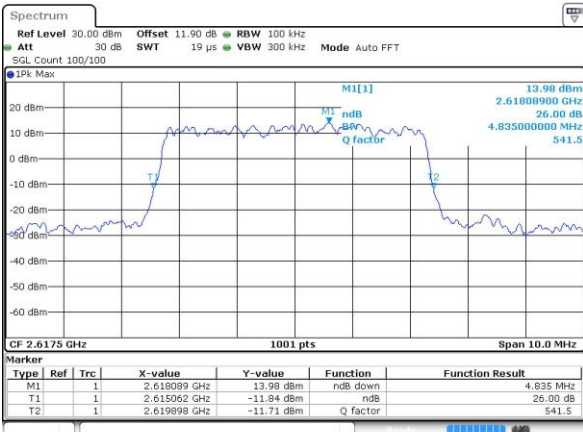
Date: 13 JUN 2018 14:01:31

Middle Channel / 5MHz / 16QAM



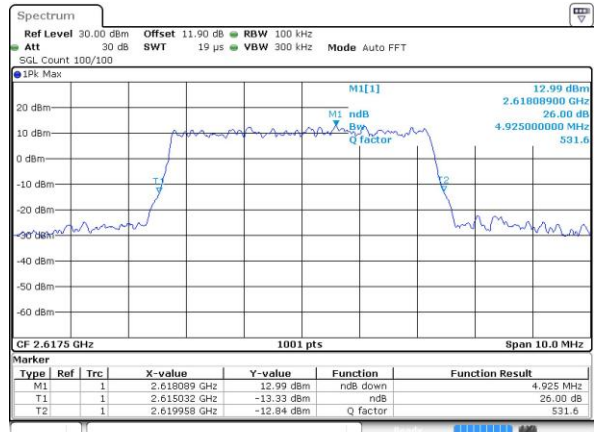
Date: 13 JUN 2018 14:01:41

Highest Channel / 5MHz / QPSK



Date: 13 JUN 2018 14:02:13

Highest Channel / 5MHz / 16QAM

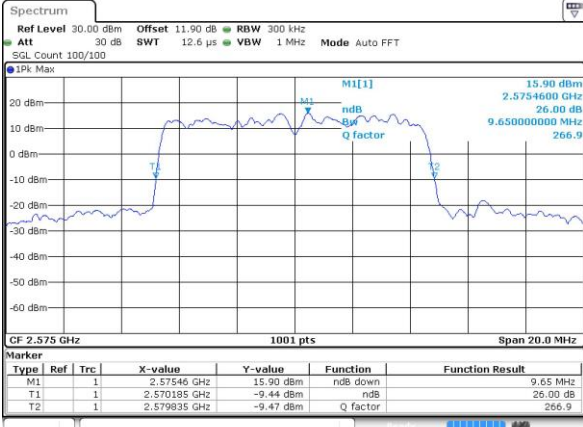


Date: 13 JUN 2018 14:02:23



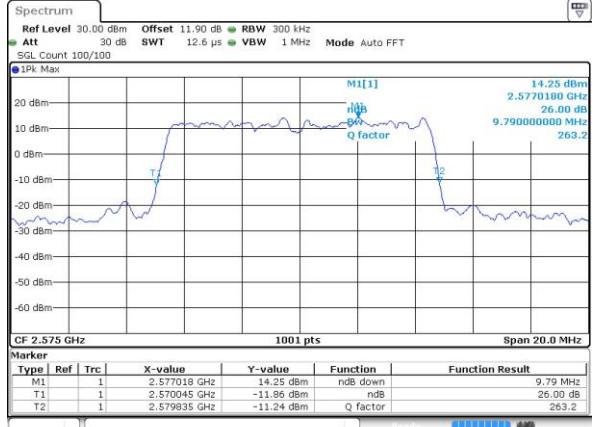
LTE Band 38

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



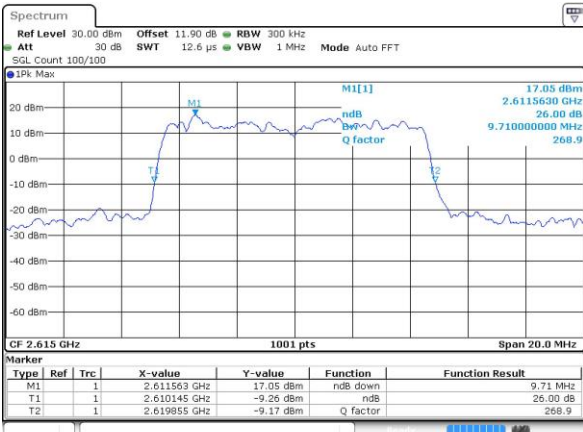
Date: 13 JUN 2018 14:03:37

Middle Channel / 10MHz / 16QAM



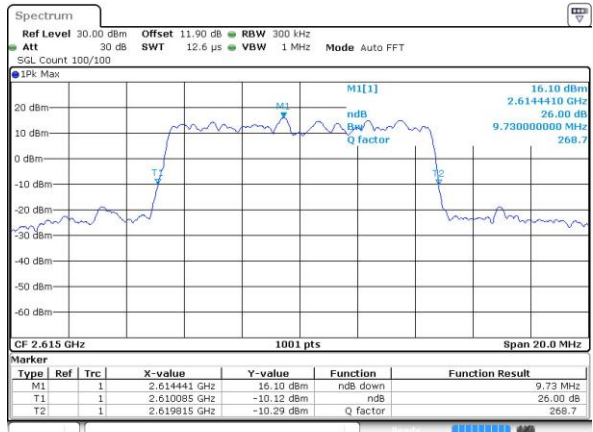
Date: 13 JUN 2018 14:03:48

Highest Channel / 10MHz / QPSK



Date: 13 JUN 2018 14:04:19

Highest Channel / 10MHz / 16QAM

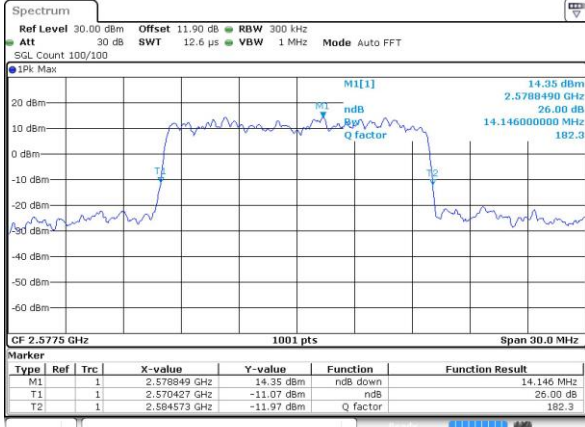


Date: 13 JUN 2018 14:04:30



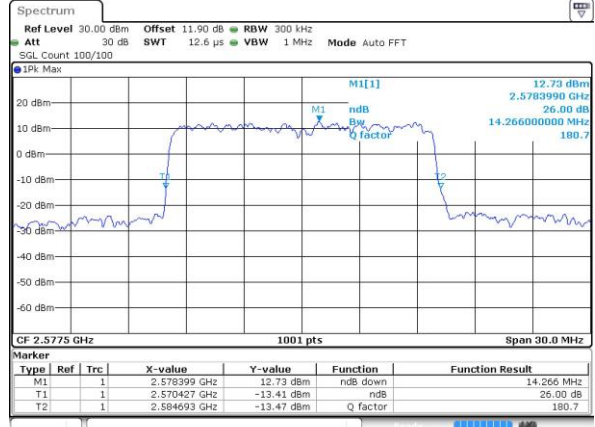
LTE Band 38

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



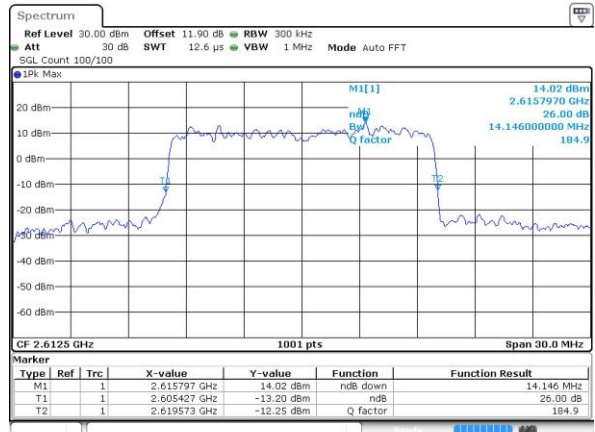
Date: 13 JUN 2018 15:52:46

Highest Channel / 15MHz / QPSK



Date: 13 JUN 2018 14:06:25

Highest Channel / 15MHz / 16QAM

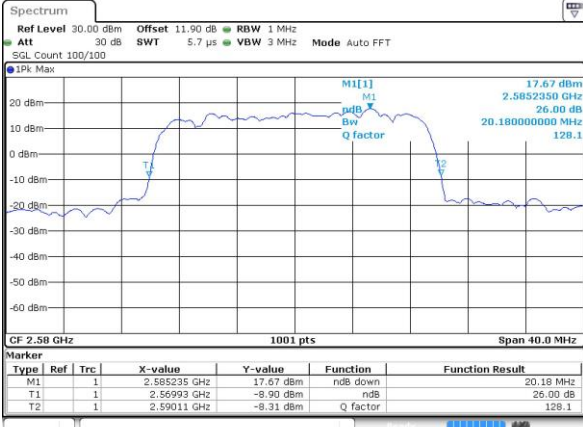


Date: 13 JUN 2018 14:06:35



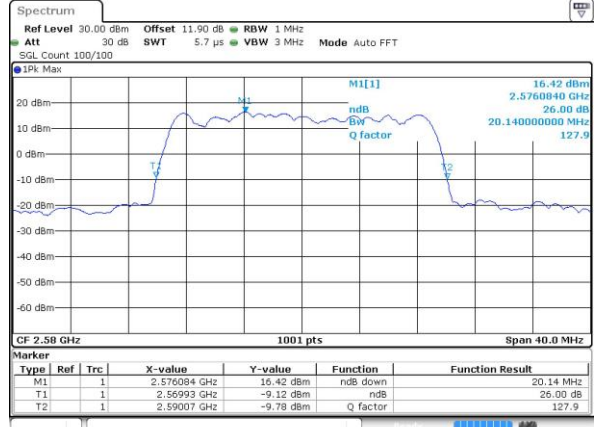
LTE Band 38

Lowest Channel / 20MHz / QPSK



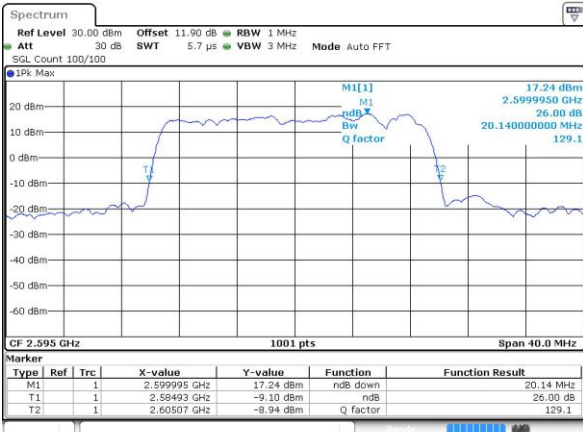
Date: 13 JUN 2018 14:07:07

Lowest Channel / 20MHz / 16QAM



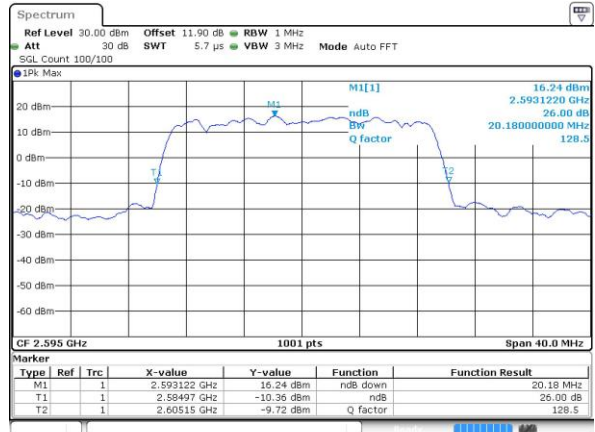
Date: 13 JUN 2018 14:07:18

Middle Channel / 20MHz / QPSK



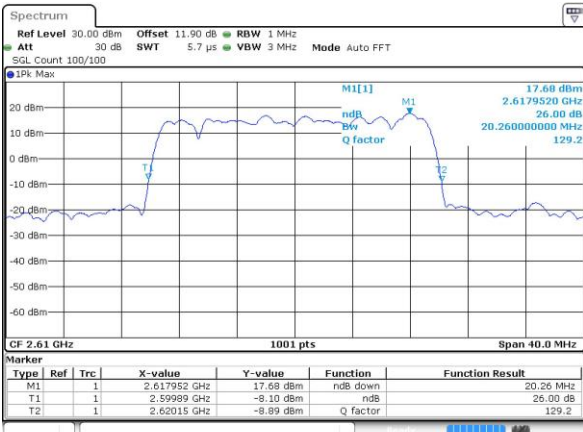
Date: 13 JUN 2018 14:07:49

Middle Channel / 20MHz / 16QAM



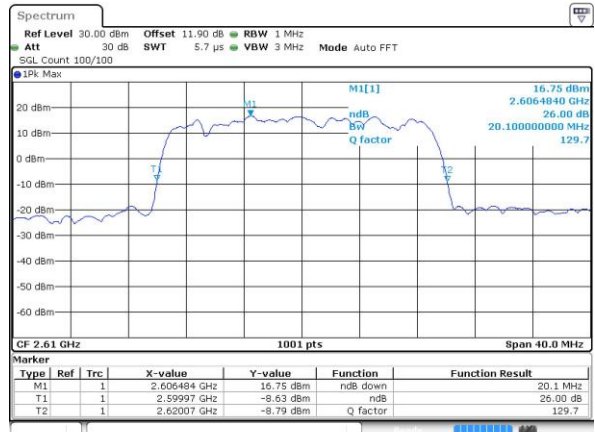
Date: 13 JUN 2018 14:07:59

Highest Channel / 20MHz / QPSK



Date: 13 JUN 2018 15:53:26

Highest Channel / 20MHz / 16QAM

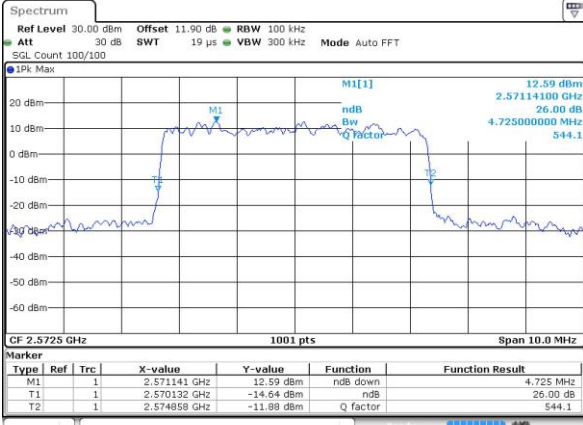


Date: 13 JUN 2018 14:08:41



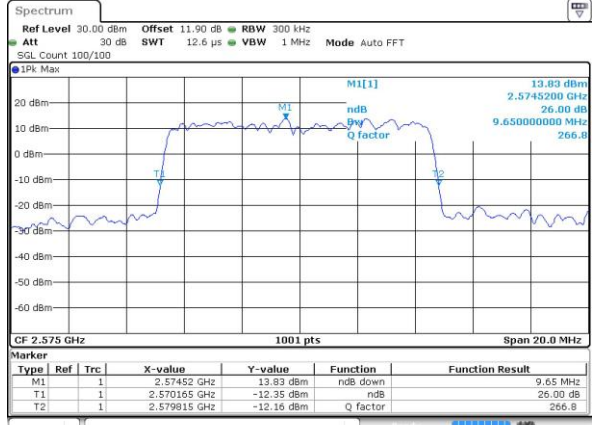
LTE Band 38

Lowest Channel / 5MHz / 64QAM



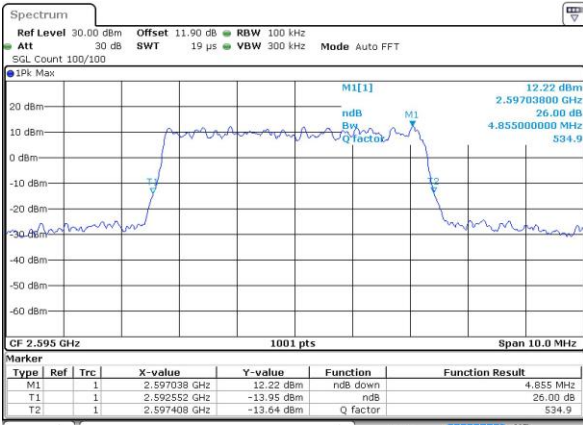
Date: 13 JUN 2018 14:09:02

Lowest Channel / 10MHz / 64QAM



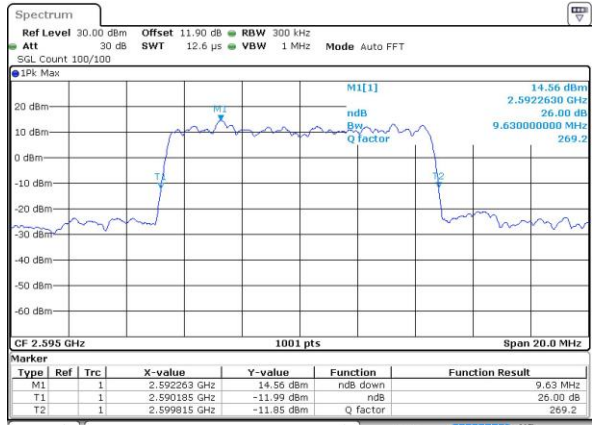
Date: 13 JUN 2018 14:10:05

Middle Channel / 5MHz / 64QAM



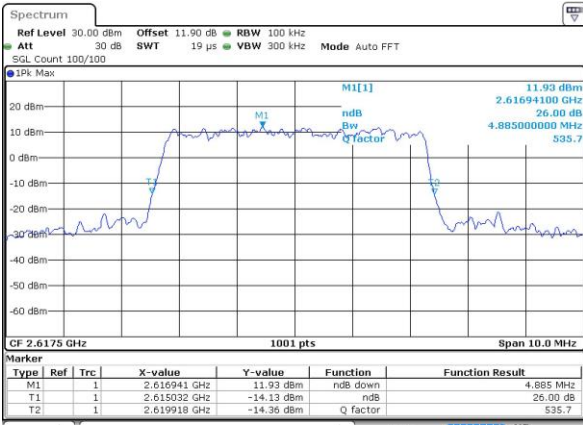
Date: 13 JUN 2018 14:09:23

Middle Channel / 10MHz / 64QAM



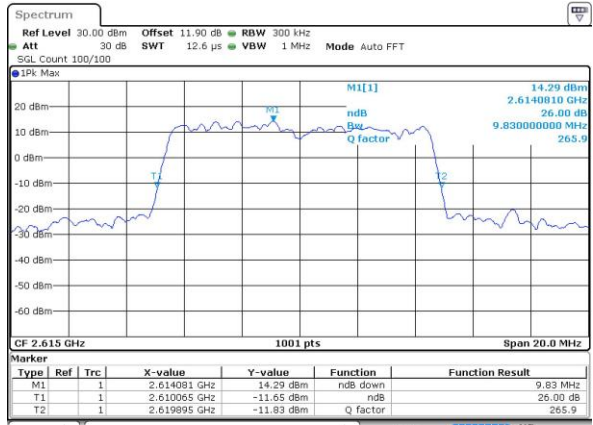
Date: 13 JUN 2018 15:52:15

Highest Channel / 5MHz / 64QAM



Date: 13 JUN 2018 14:09:44

Highest Channel / 10MHz / 64QAM

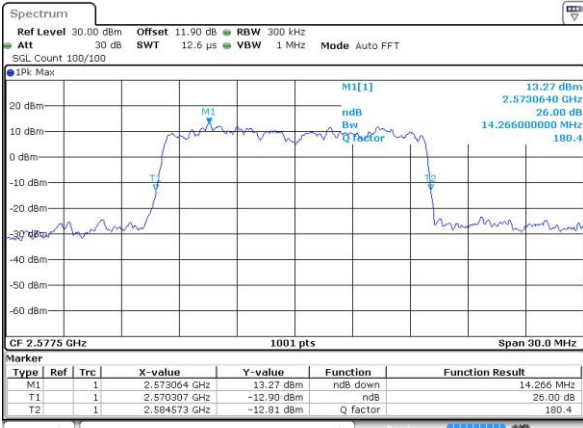


Date: 13 JUN 2018 14:10:48



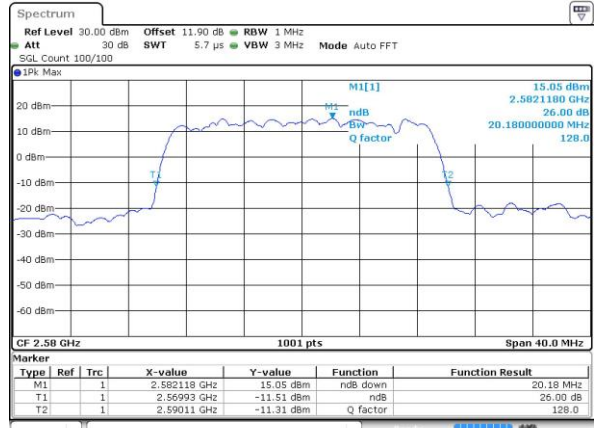
LTE Band 38

Lowest Channel / 15MHz / 64QAM



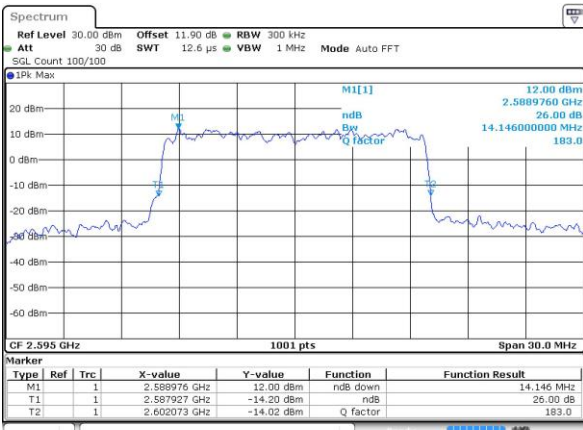
Date: 13 JUN 2018 14:11:09

Lowest Channel / 20MHz / 64QAM



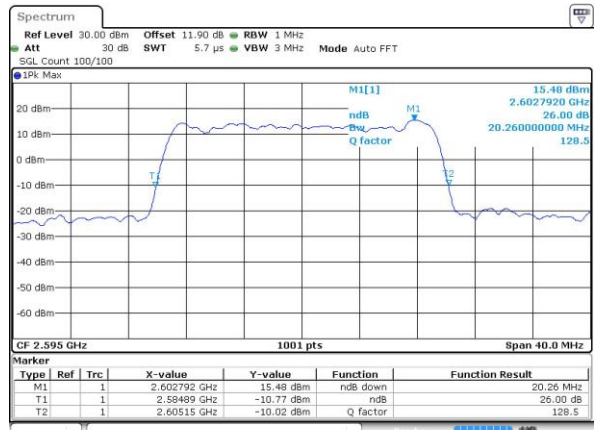
Date: 13 JUN 2018 14:12:12

Middle Channel / 15MHz / 64QAM



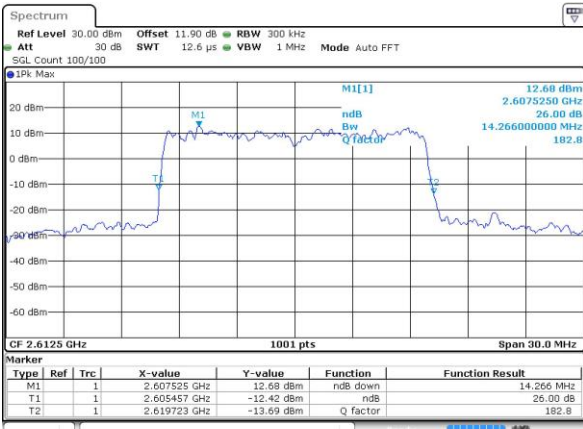
Date: 13 JUN 2018 14:11:30

Middle Channel / 20MHz / 64QAM



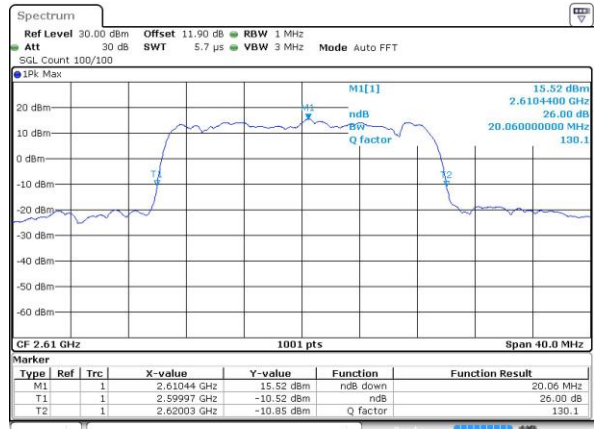
Date: 13 JUN 2018 14:12:33

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	-