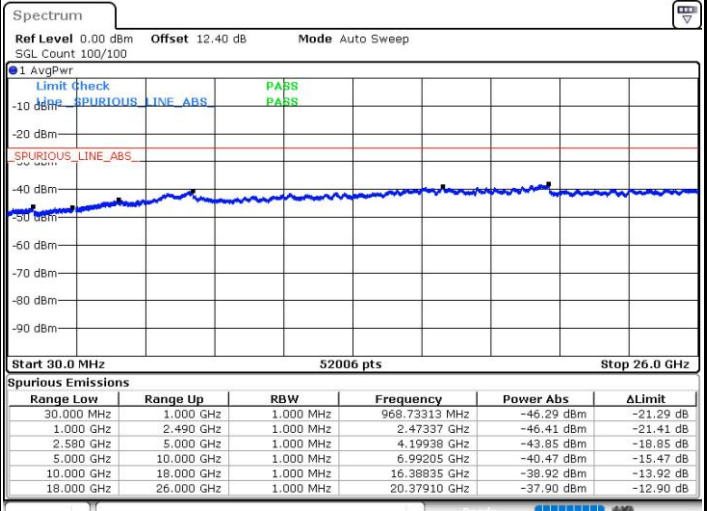
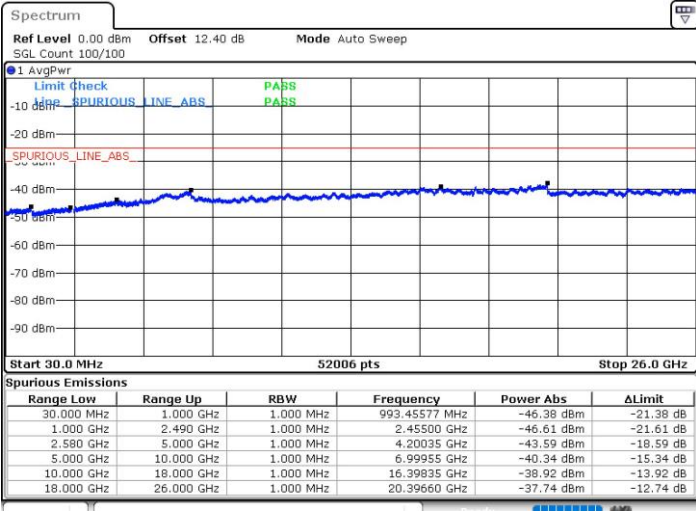




LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

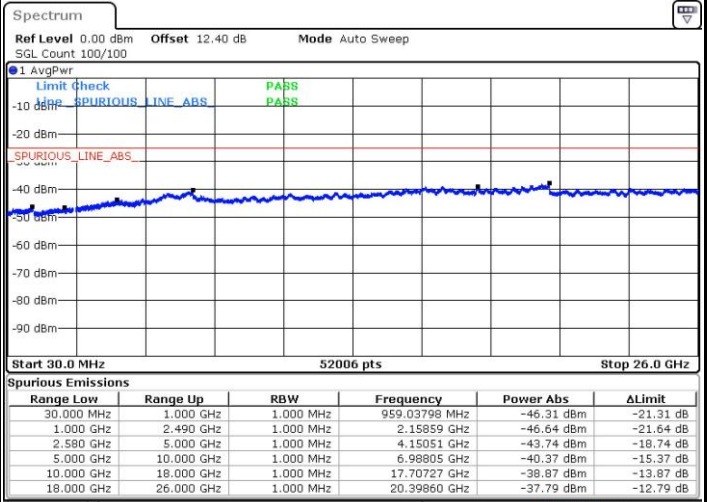
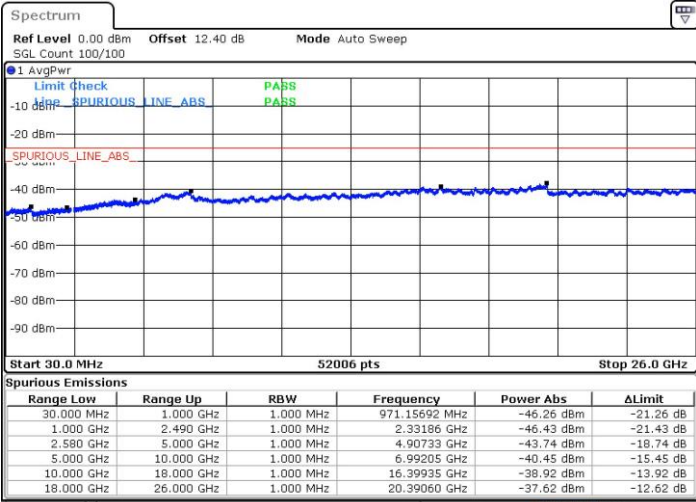


Date: 25.SEP.2018 04:06:24

Date: 25.SEP.2018 04:07:23

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25.SEP.2018 04:13:07

Date: 25.SEP.2018 04:14:06



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0041	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0030	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 12

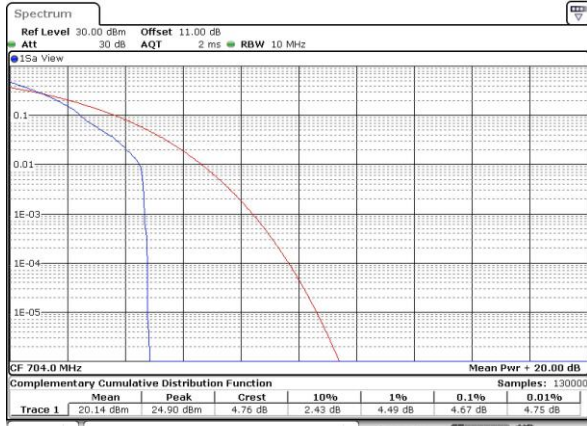
### Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.67	4.75	5.65	5.77	<b>PASS</b>
Middle CH	4.52	4.93	5.51	5.8	
Highest CH	4.38	4.75	5.19	5.77	



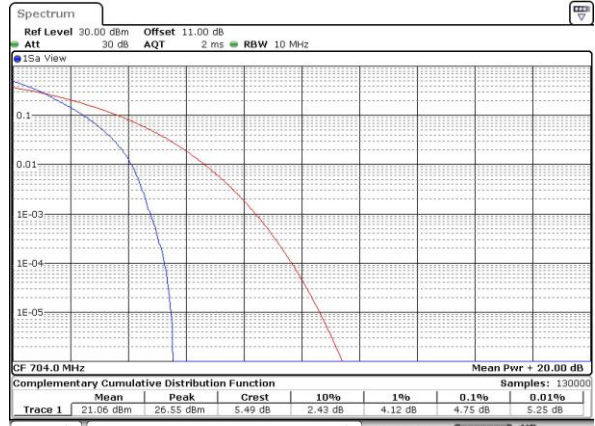
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



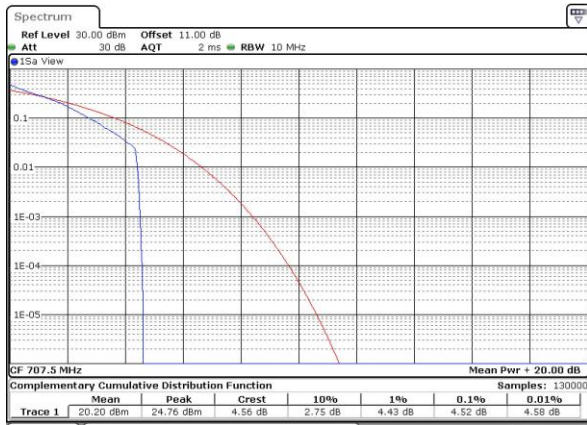
Date: 21.SEP.2018 04:00:01

Lowest Channel / Full RB



Date: 21.SEP.2018 03:59:43

Middle Channel / 1RB



Date: 21.SEP.2018 04:00:14

Middle Channel / Full RB



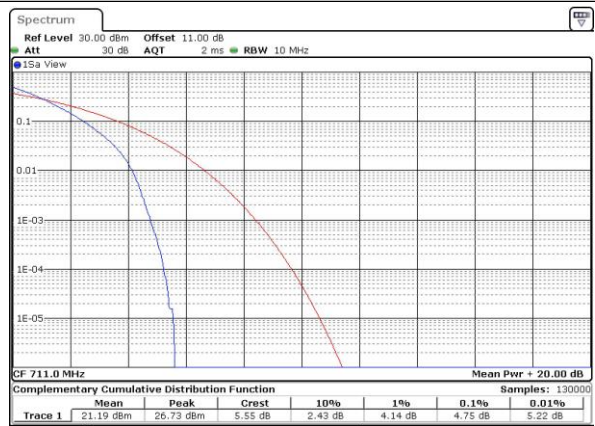
Date: 21.SEP.2018 04:00:30

Highest Channel / 1RB



Date: 21.SEP.2018 04:00:59

Highest Channel / Full RB

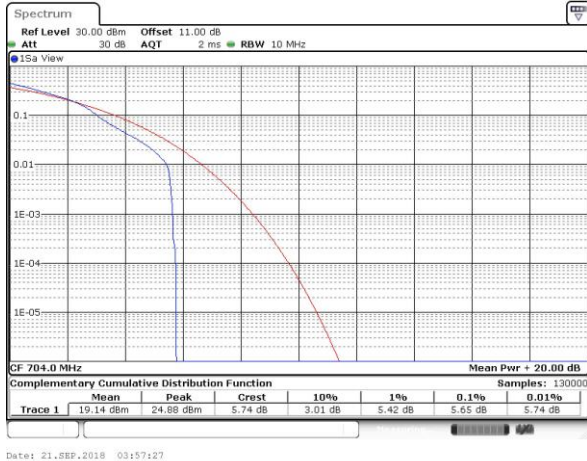


Date: 21.SEP.2018 04:00:46



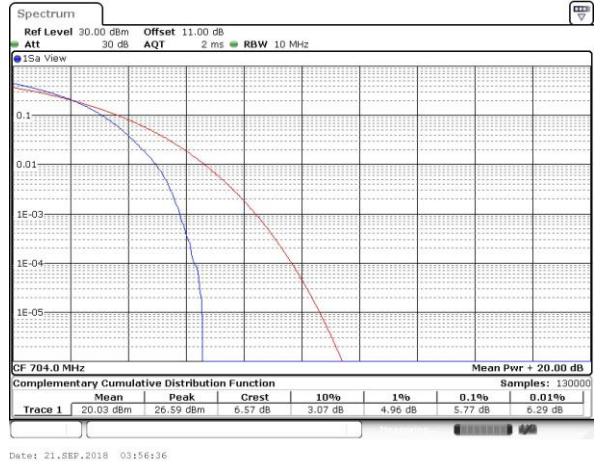
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



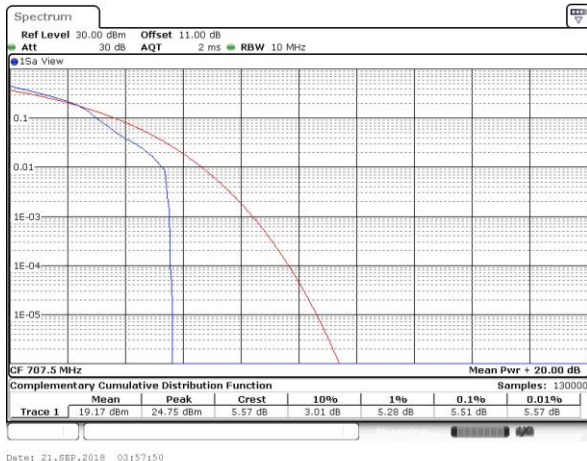
Date: 21\_SEP.2018 03:57:27

Lowest Channel / Full RB



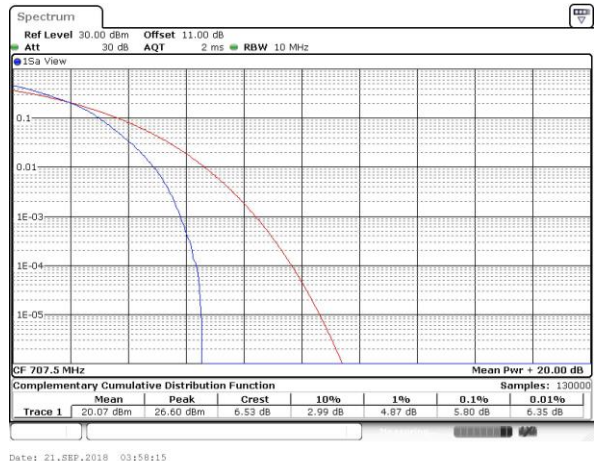
Date: 21\_SEP.2018 03:56:36

Middle Channel / 1RB



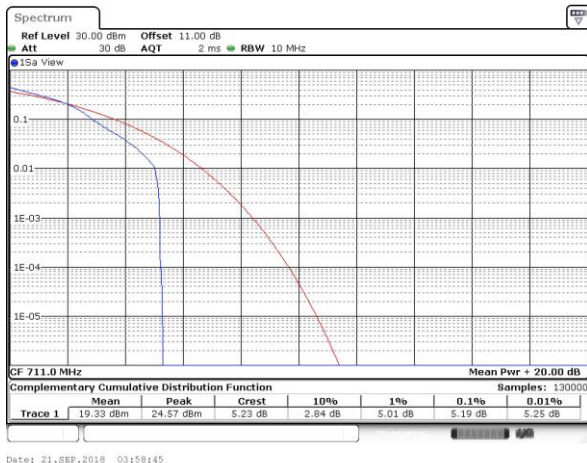
Date: 21\_SEP.2018 03:57:50

Middle Channel / Full RB



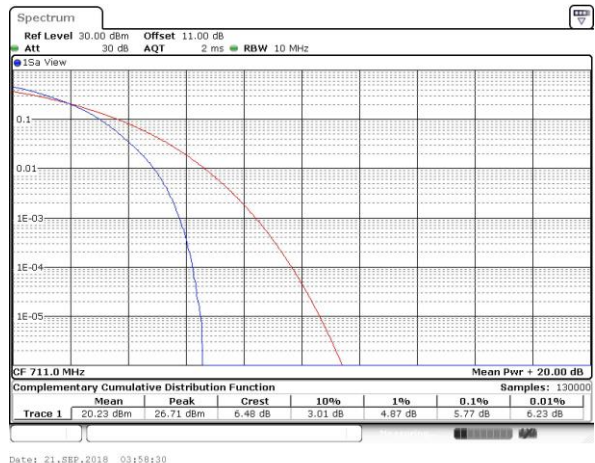
Date: 21\_SEP.2018 03:56:15

Highest Channel / 1RB



Date: 21\_SEP.2018 03:58:45

Highest Channel / Full RB



Date: 21\_SEP.2018 03:58:30



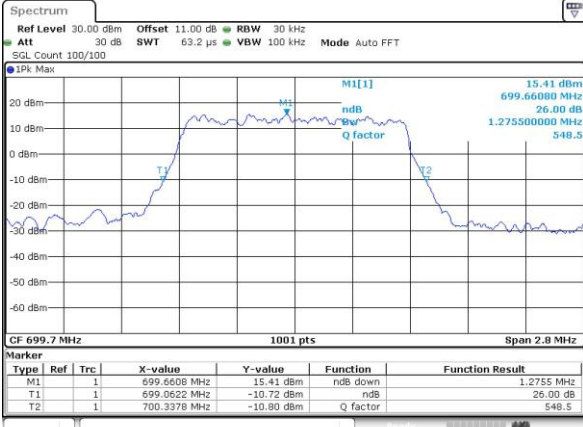
**26dB Bandwidth**

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.29	3.01	3.05	4.85	4.94	9.89	9.77	-	-	-	-
Middle CH	1.27	1.27	3.02	3.05	4.89	4.96	9.93	9.79	-	-	-	-
Highest CH	1.26	1.29	2.99	3.00	5.03	4.84	9.79	9.95	-	-	-	-



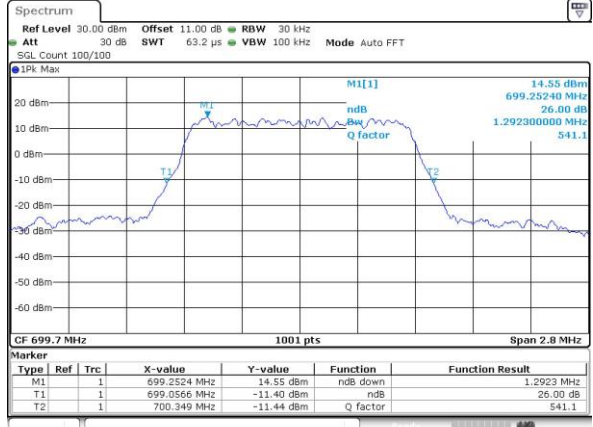
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



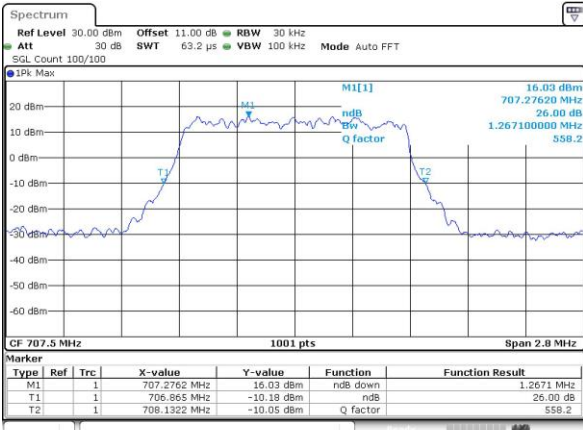
Date: 21\_SEP.2018 03:32:32

Lowest Channel / 1.4MHz / 16QAM



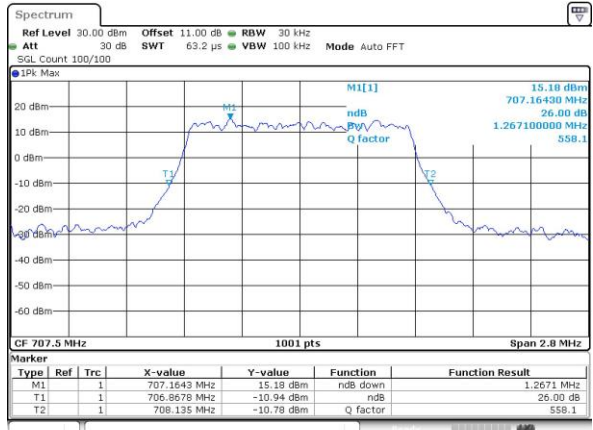
Date: 21\_SEP.2018 03:32:19

Middle Channel / 1.4MHz / QPSK



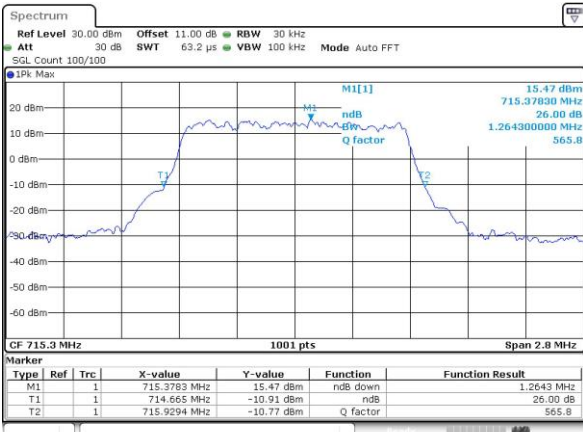
Date: 21\_SEP.2018 03:39:41

Middle Channel / 1.4MHz / 16QAM



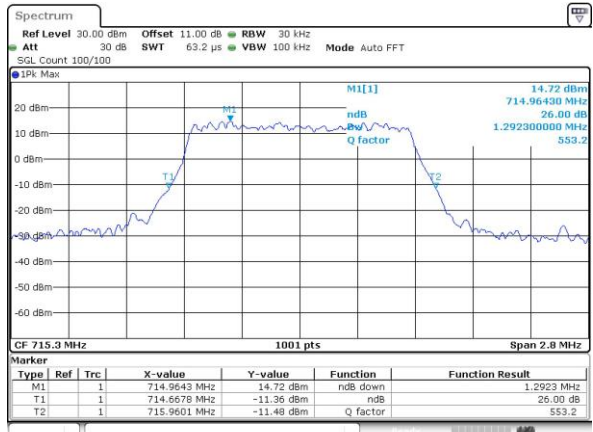
Date: 21\_SEP.2018 03:39:54

Highest Channel / 1.4MHz / QPSK



Date: 21\_SEP.2018 03:42:34

Highest Channel / 1.4MHz / 16QAM

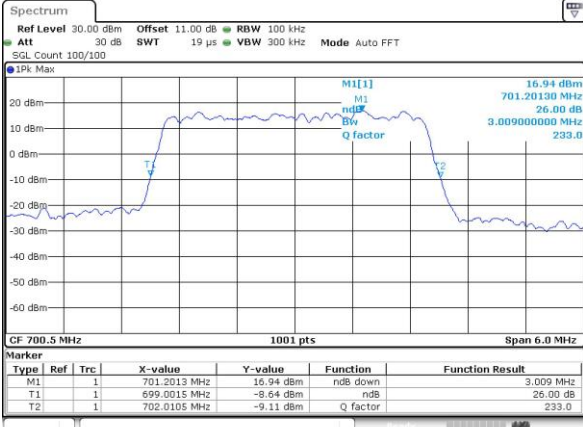


Date: 21\_SEP.2018 03:42:22



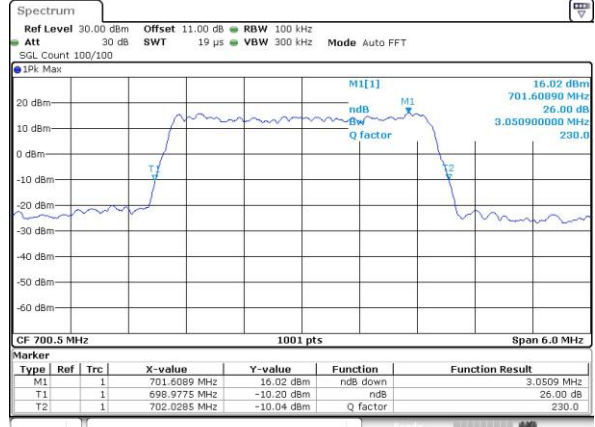
LTE Band 12

Lowest Channel / 3MHz / QPSK



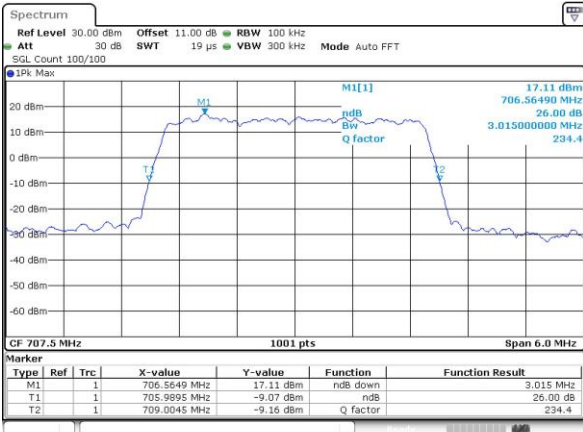
Date: 21\_SEP.2018 02:05:13

Lowest Channel / 3MHz / 16QAM



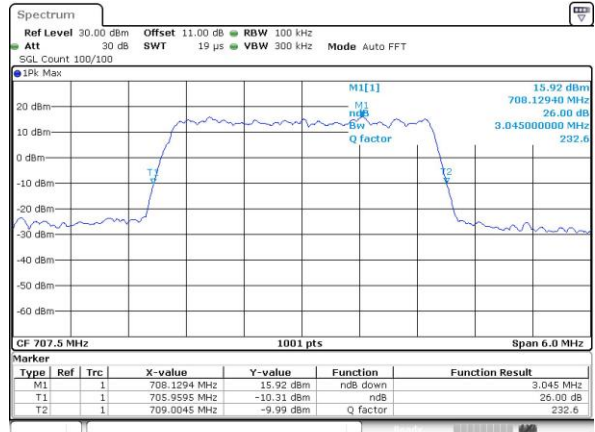
Date: 21\_SEP.2018 02:10:120

Middle Channel / 3MHz / QPSK



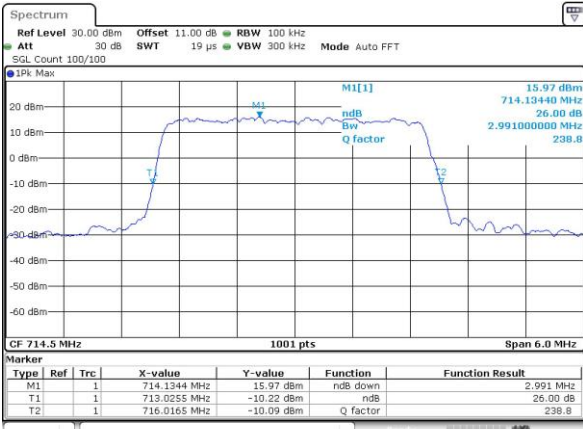
Date: 21\_SEP.2018 02:12:42

Middle Channel / 3MHz / 16QAM



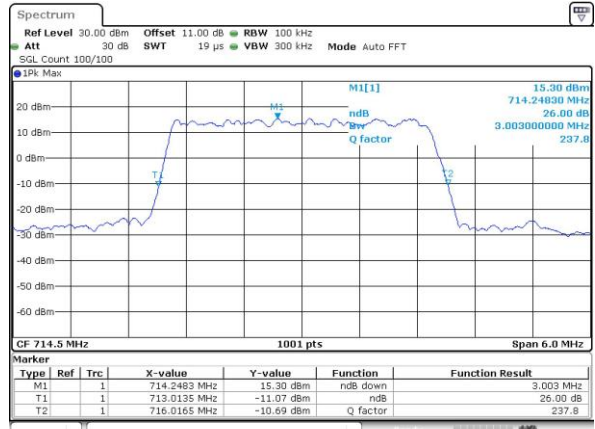
Date: 21\_SEP.2018 02:11:55

Highest Channel / 3MHz / QPSK



Date: 21\_SEP.2018 02:15:36

Highest Channel / 3MHz / 16QAM



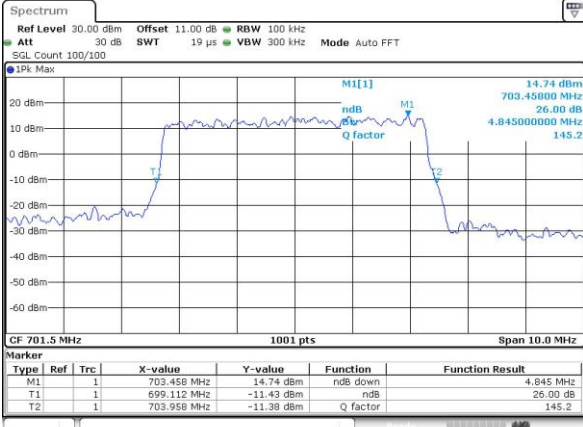
Date: 21\_SEP.2018 02:11:523





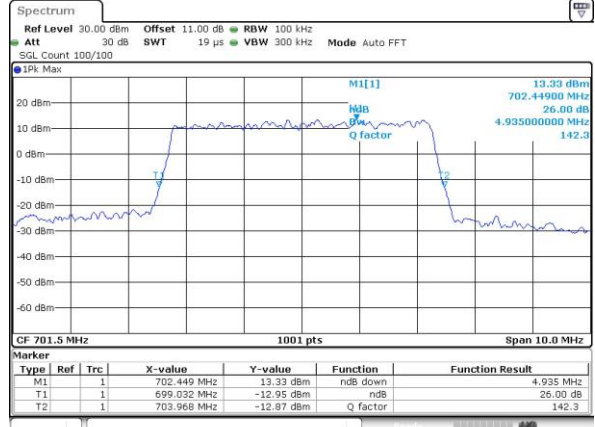
LTE Band 12

Lowest Channel / 5MHz / QPSK



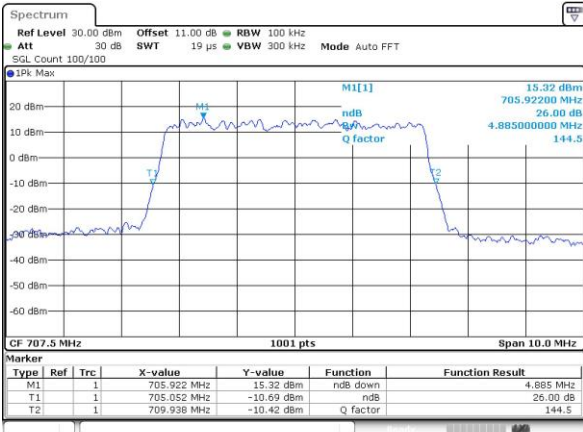
Date: 21\_SEP.2018 02:22:59

Lowest Channel / 5MHz / 16QAM



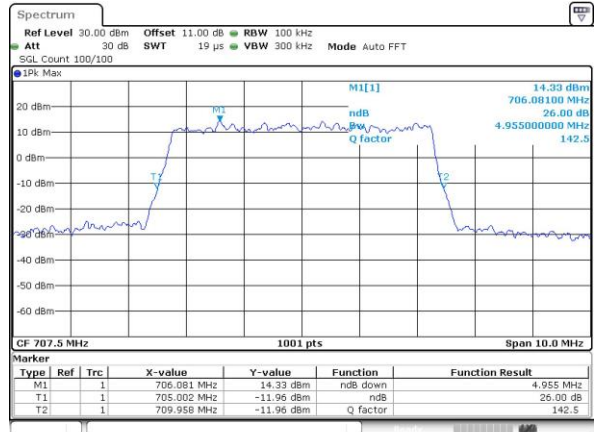
Date: 21\_SEP.2018 02:22:46

Middle Channel / 5MHz / QPSK



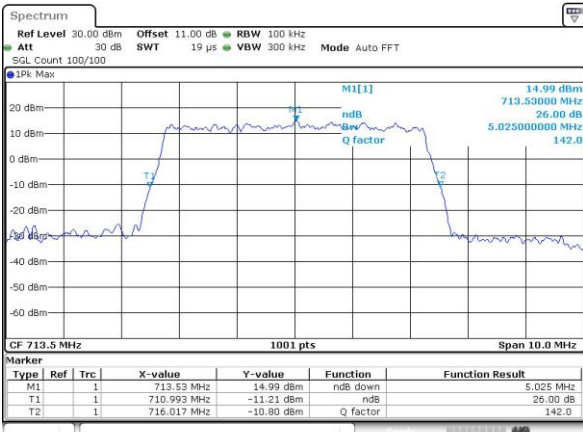
Date: 21\_SEP.2018 02:30:07

Middle Channel / 5MHz / 16QAM



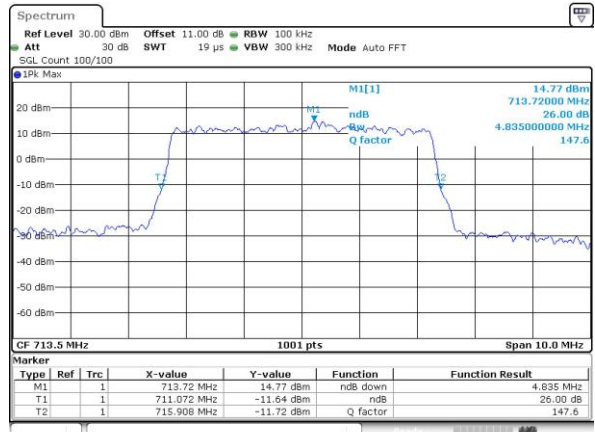
Date: 21\_SEP.2018 02:30:20

Highest Channel / 5MHz / QPSK



Date: 21\_SEP.2018 02:33:00

Highest Channel / 5MHz / 16QAM

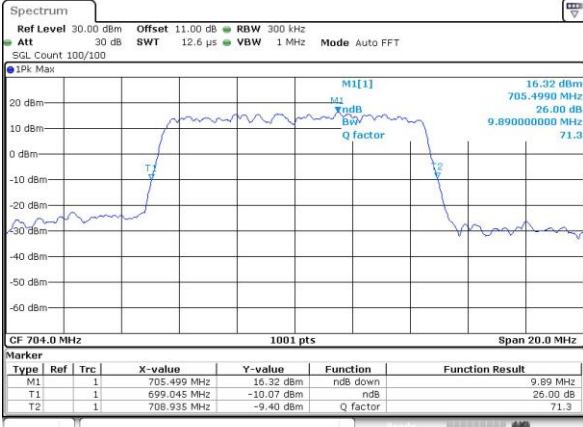


Date: 21\_SEP.2018 02:32:47



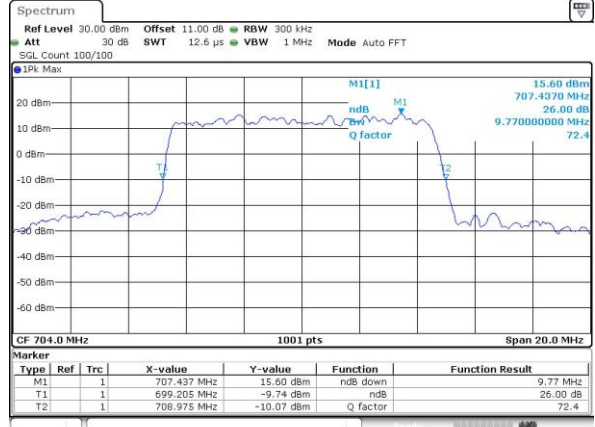
LTE Band 12

Lowest Channel / 10MHz / QPSK



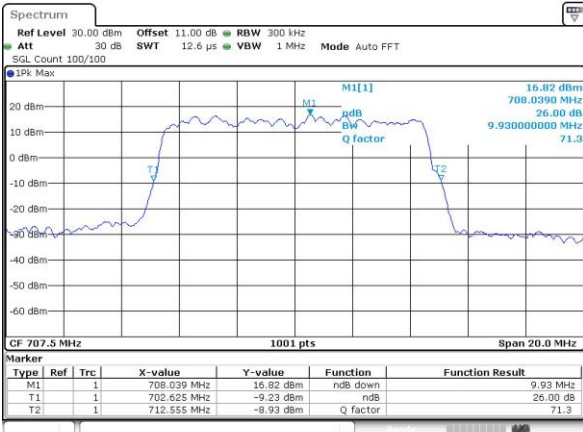
Date: 21\_SEP.2018 02:40:21

Lowest Channel / 10MHz / 16QAM



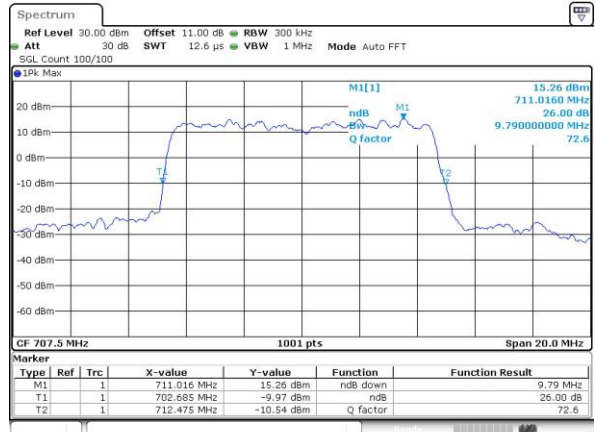
Date: 21\_SEP.2018 02:40:09

Middle Channel / 10MHz / QPSK



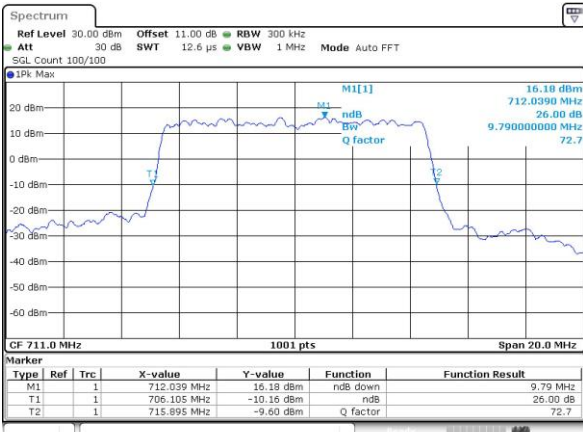
Date: 21\_SEP.2018 02:47:31

Middle Channel / 10MHz / 16QAM



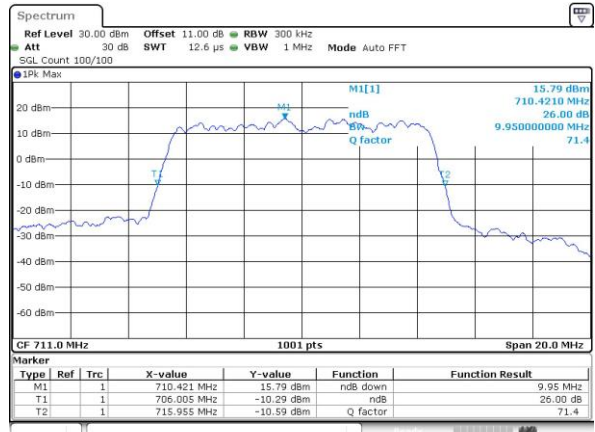
Date: 21\_SEP.2018 02:47:44

Highest Channel / 10MHz / QPSK



Date: 21\_SEP.2018 02:50:24

Highest Channel / 10MHz / 16QAM



Date: 21\_SEP.2018 02:50:11



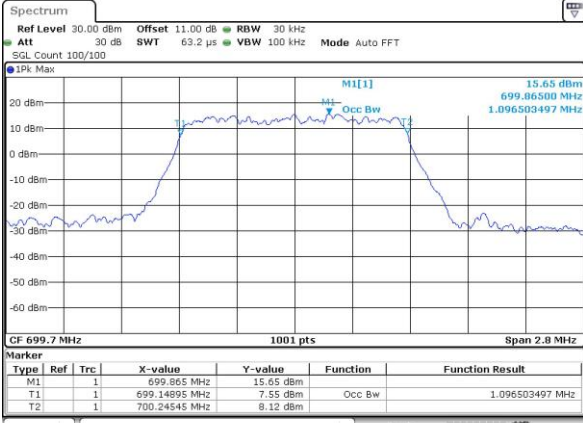
### Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.1	1.09	2.72	2.72	4.49	4.5	8.99	8.97	-	-	-	-
Middle CH	1.09	1.09	2.72	2.73	4.5	4.48	9.07	8.99	-	-	-	-
Highest CH	1.09	1.09	2.7	2.72	4.5	4.49	9.01	9.03	-	-	-	-



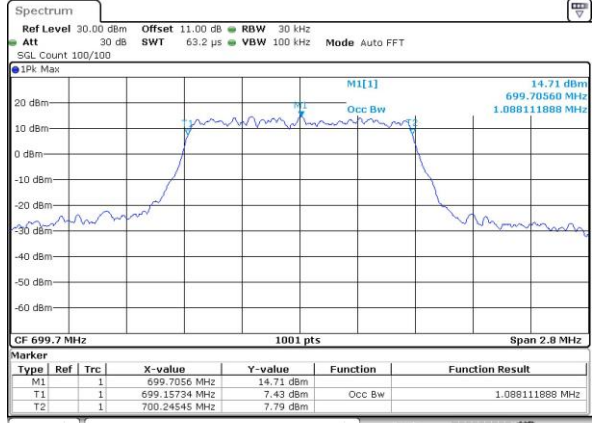
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



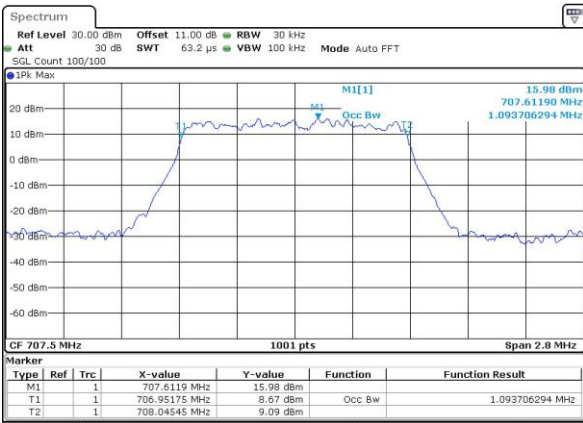
Date: 21\_SEP\_2018 03:31:53

Lowest Channel / 1.4MHz / 16QAM



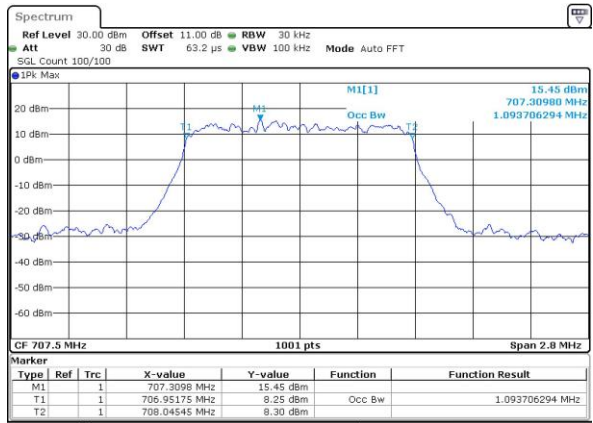
Date: 21\_SEP\_2018 03:32:06

Middle Channel / 1.4MHz / QPSK



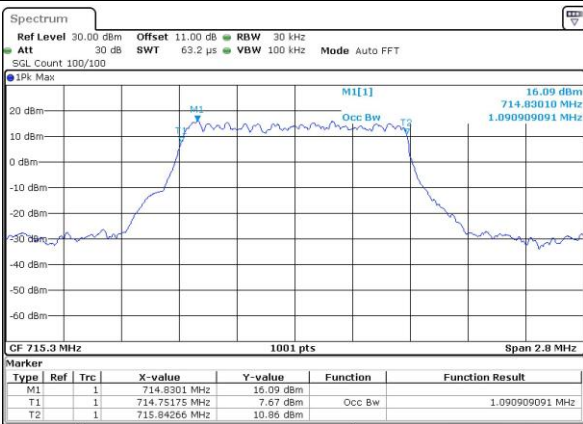
Date: 21\_SEP\_2018 03:39:28

Middle Channel / 1.4MHz / 16QAM



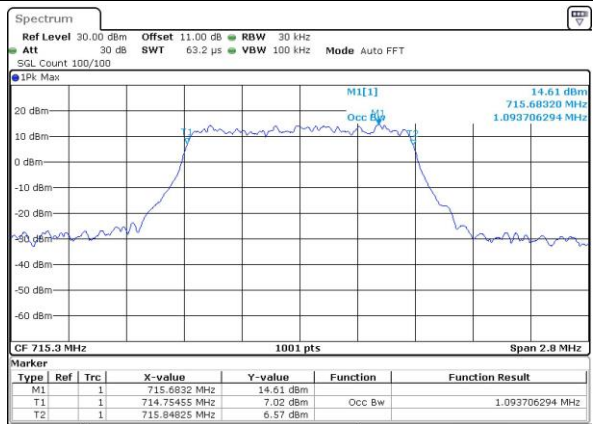
Date: 21\_SEP\_2018 03:39:15

Highest Channel / 1.4MHz / QPSK



Date: 21\_SEP\_2018 03:41:56

Highest Channel / 1.4MHz / 16QAM

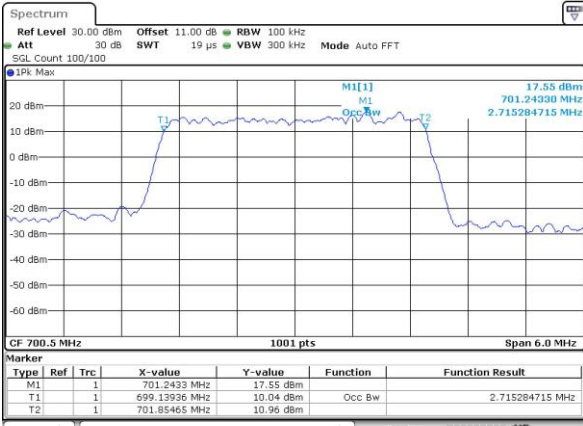


Date: 21\_SEP\_2018 03:42:09



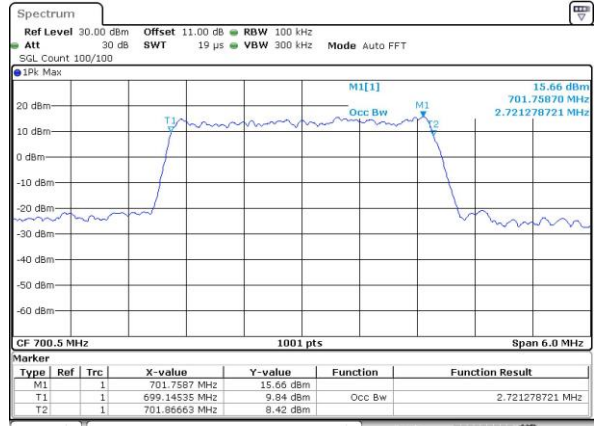
LTE Band 12

Lowest Channel / 3MHz / QPSK



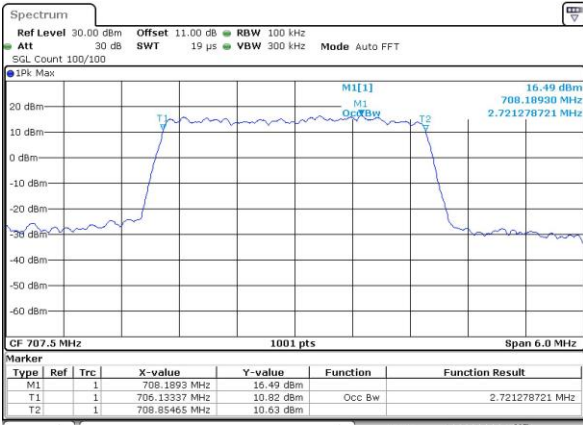
Date: 21\_SEP.2018 02:04:54

Lowest Channel / 3MHz / 16QAM



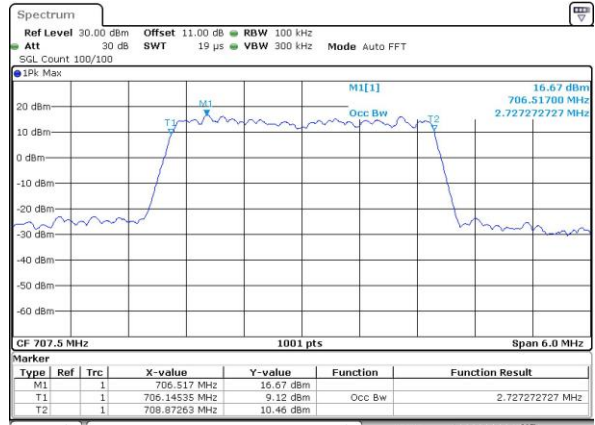
Date: 21\_SEP.2018 02:10:07

Middle Channel / 3MHz / QPSK



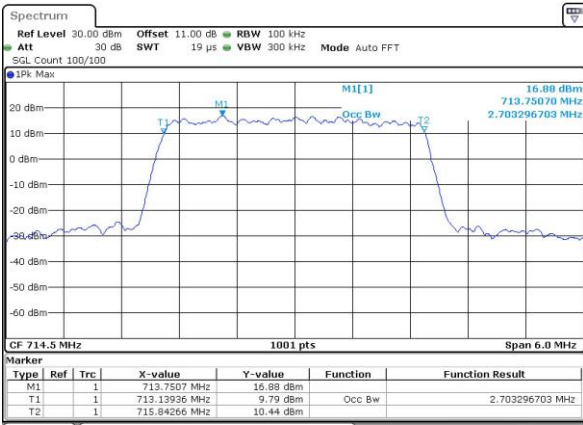
Date: 21\_SEP.2018 02:12:29

Middle Channel / 3MHz / 16QAM



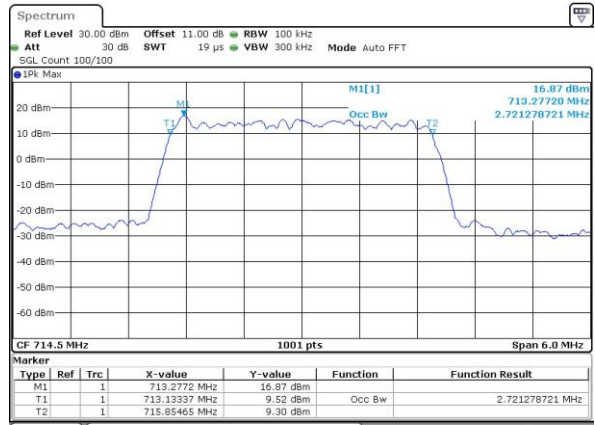
Date: 21\_SEP.2018 02:12:16

Highest Channel / 3MHz / QPSK



Date: 21\_SEP.2018 02:14:58

Highest Channel / 3MHz / 16QAM

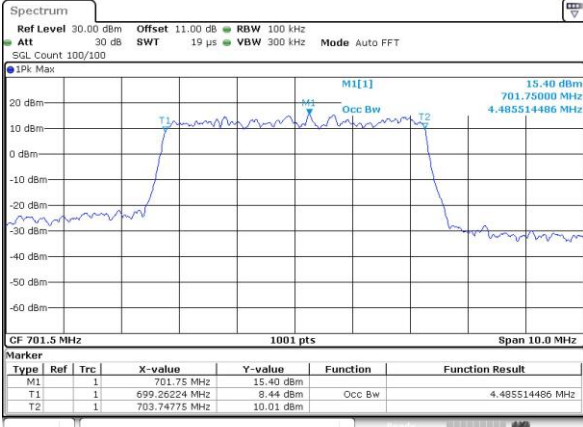


Date: 21\_SEP.2018 02:15:10



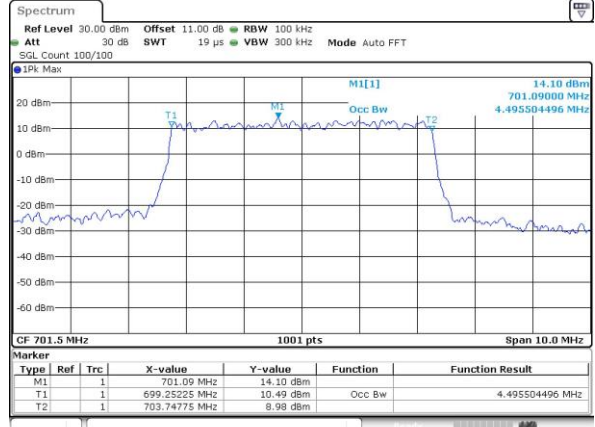
LTE Band 12

Lowest Channel / 5MHz / QPSK



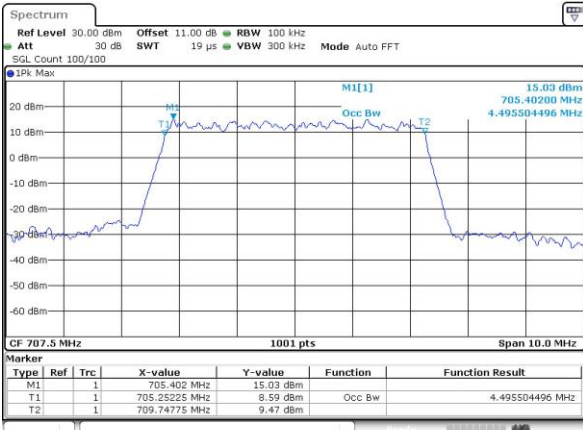
Date: 21\_SEP.2018 02:22:20

Lowest Channel / 5MHz / 16QAM



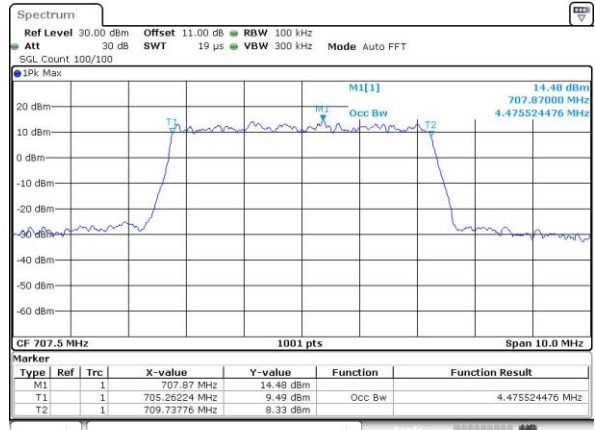
Date: 21\_SEP.2018 02:22:33

Middle Channel / 5MHz / QPSK



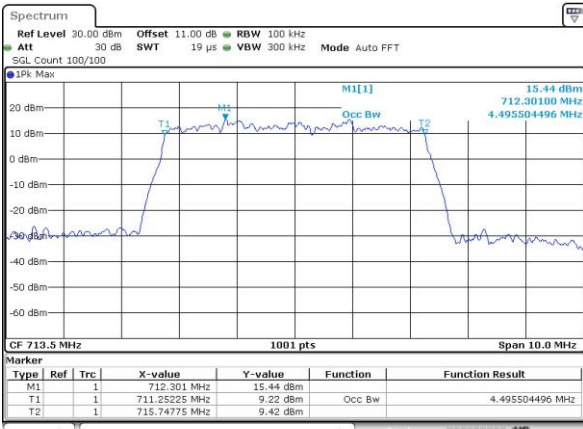
Date: 21\_SEP.2018 02:29:54

Middle Channel / 5MHz / 16QAM



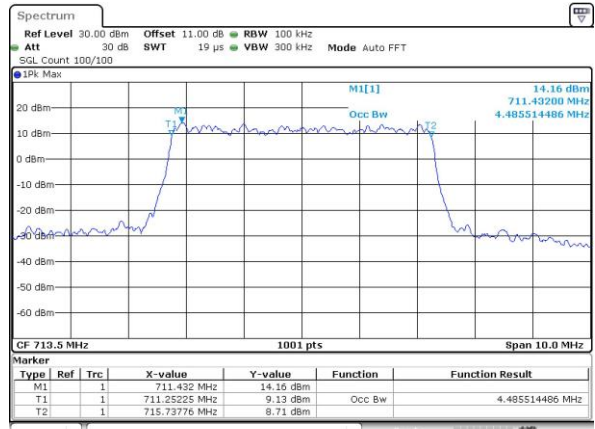
Date: 21\_SEP.2018 02:29:41

Highest Channel / 5MHz / QPSK



Date: 21\_SEP.2018 02:32:22

Highest Channel / 5MHz / 16QAM

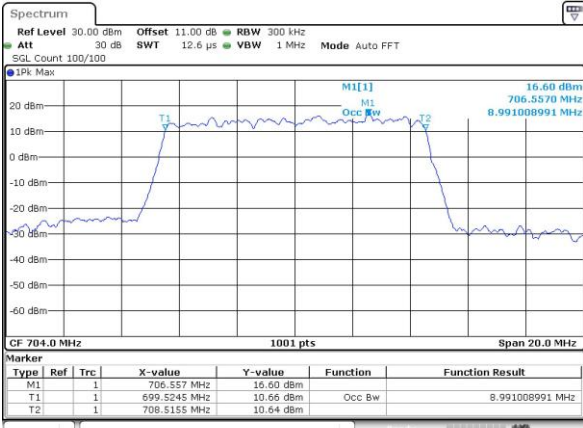


Date: 21\_SEP.2018 02:32:34



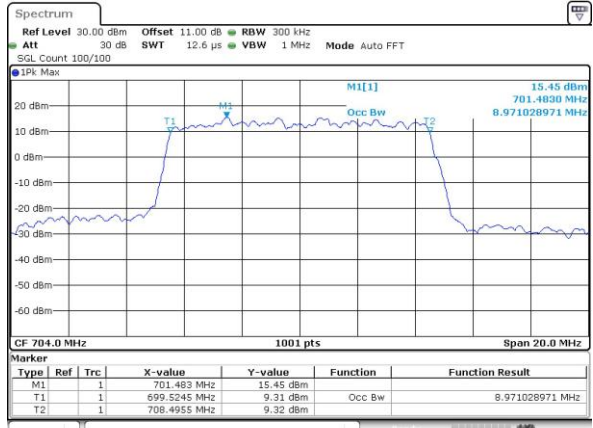
LTE Band 12

Lowest Channel / 10MHz / QPSK



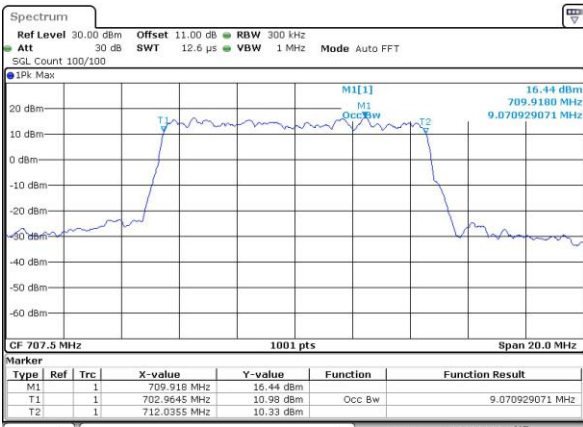
Date: 21\_SEP.2018 02:39:42

Lowest Channel / 10MHz / 16QAM



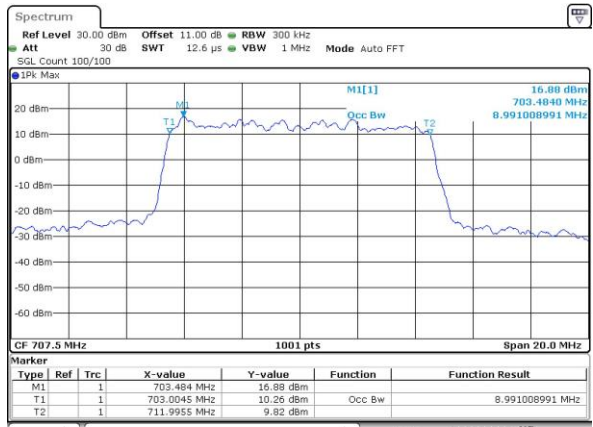
Date: 21\_SEP.2018 02:39:56

Middle Channel / 10MHz / QPSK



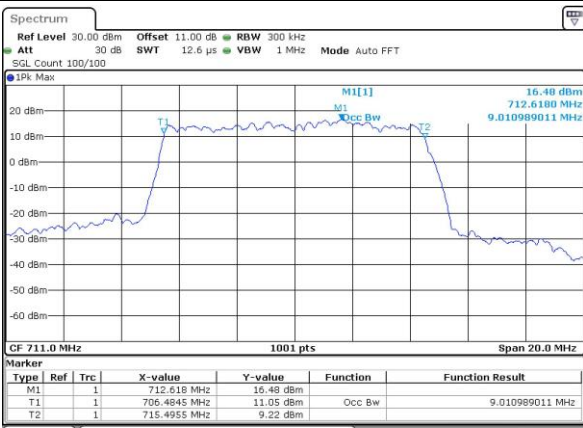
Date: 21\_SEP.2018 02:47:18

Middle Channel / 10MHz / 16QAM



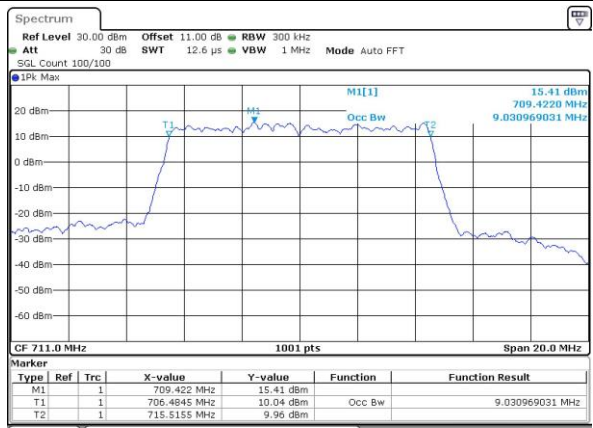
Date: 21\_SEP.2018 02:47:05

Highest Channel / 10MHz / QPSK



Date: 21\_SEP.2018 02:49:46

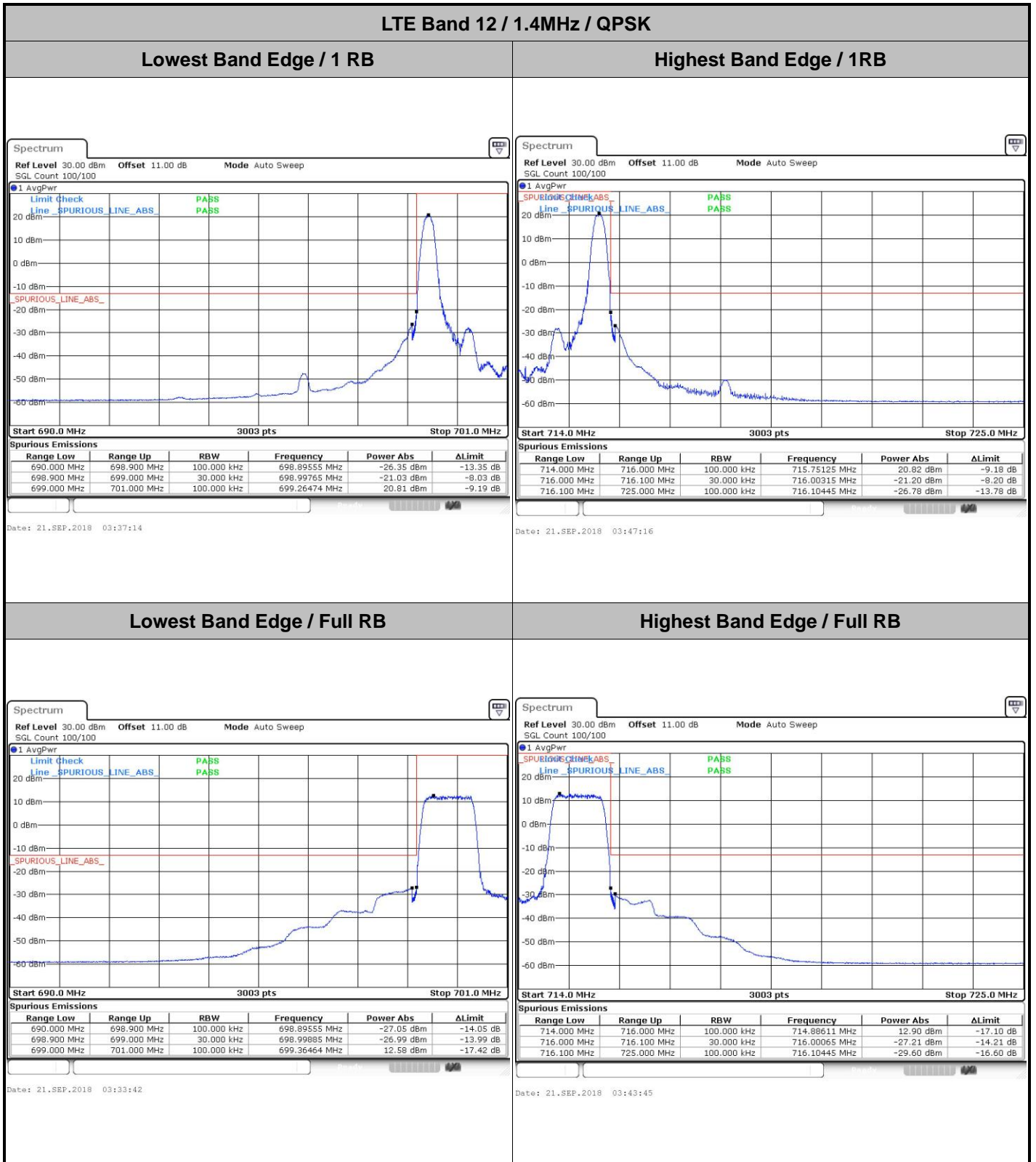
Highest Channel / 10MHz / 16QAM



Date: 21\_SEP.2018 02:49:59



# Conducted Band Edge

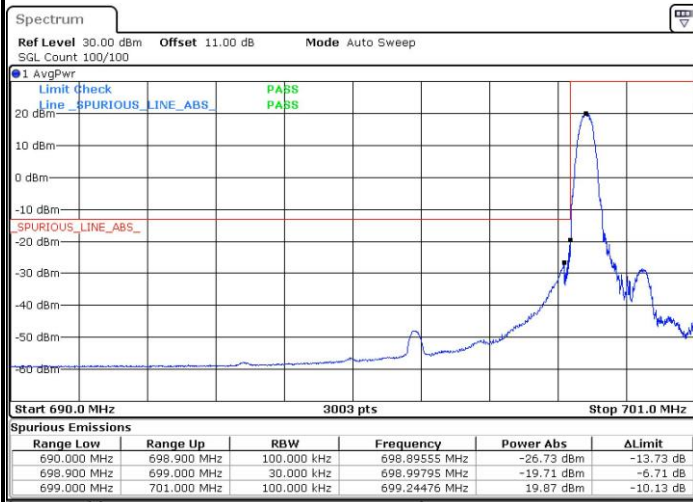






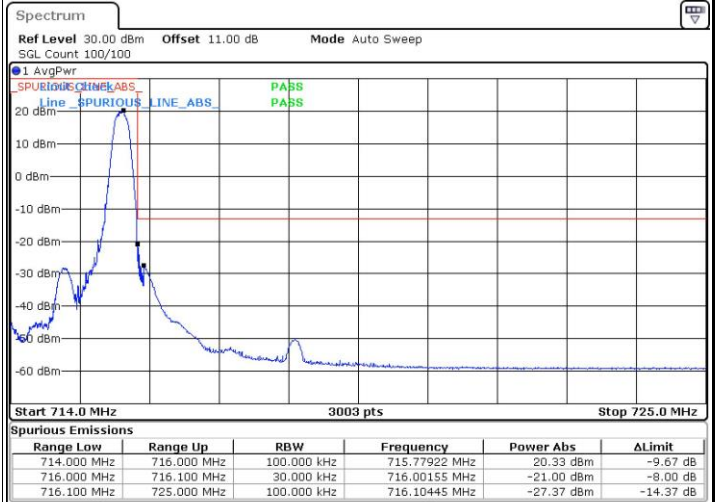
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 21.SEP.2018 03:36:03

Highest Band Edge / 1 RB



Date: 21.SEP.2018 03:46:06

Lowest Band Edge / Full RB



Date: 21.SEP.2018 03:34:53

Highest Band Edge / Full RB

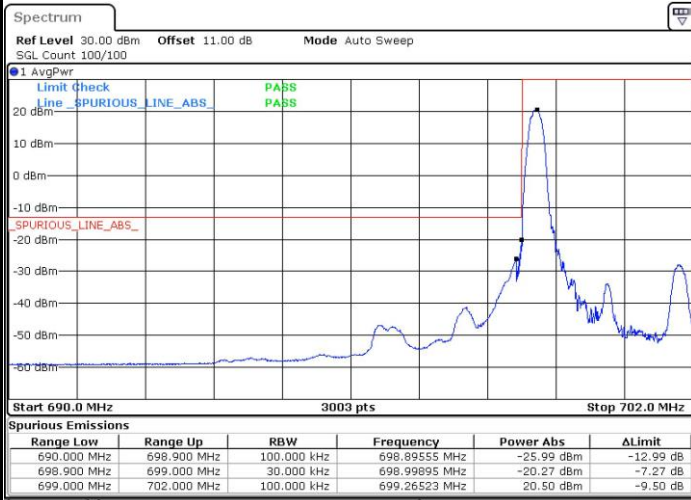


Date: 21.SEP.2018 03:44:56



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



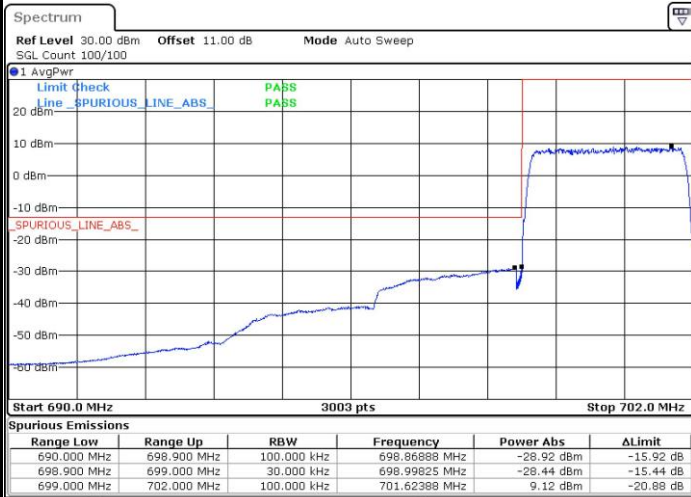
Date: 21.SEP.2018 02:10:15

Highest Band Edge / 1 RB



Date: 21.SEP.2018 02:20:19

Lowest Band Edge / Full RB



Date: 21.SEP.2018 02:06:43

Highest Band Edge / Full RB

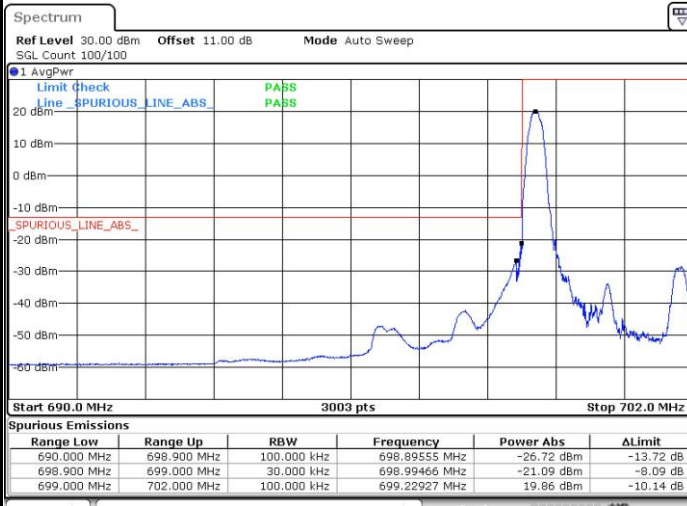


Date: 21.SEP.2018 02:16:47



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



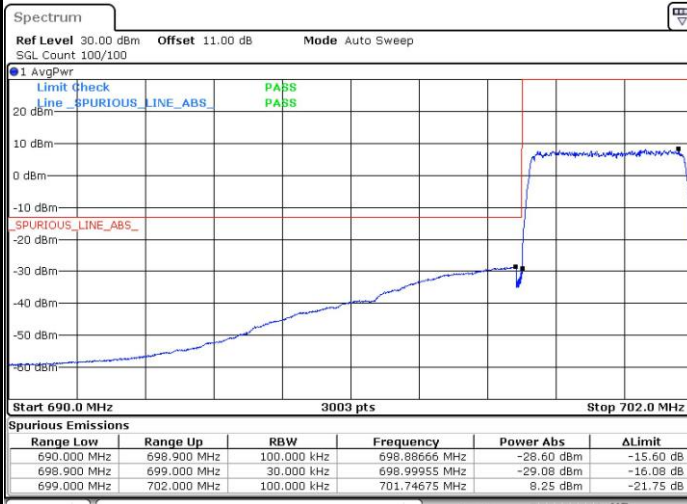
Date: 21.SEP.2018 02:09:04

Highest Band Edge / 1 RB



Date: 21.SEP.2018 02:19:08

Lowest Band Edge / Full RB



Date: 21.SEP.2018 02:07:54

Highest Band Edge / Full RB

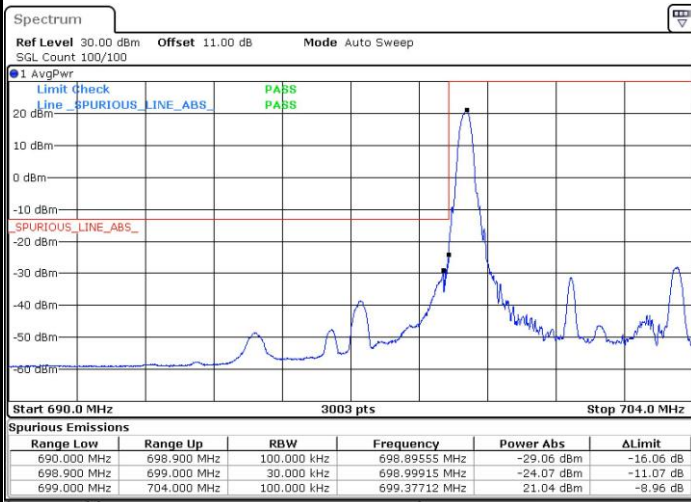


Date: 21.SEP.2018 02:17:58



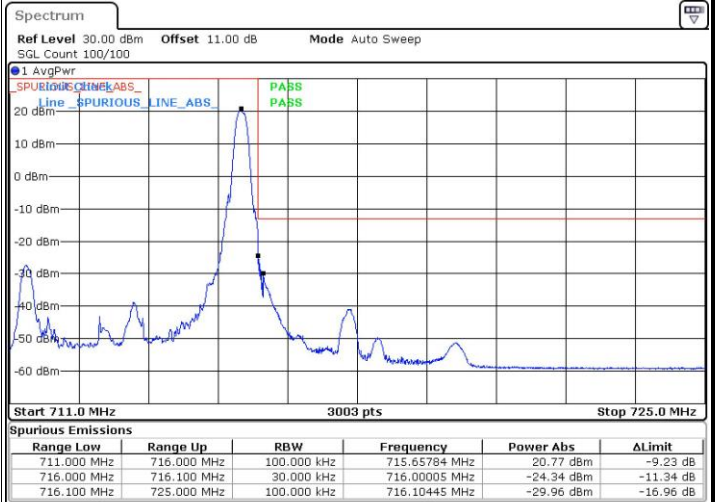
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Date: 21.SEP.2018 02:27:40

Highest Band Edge / 1 RB



Date: 21.SEP.2018 02:36:31

Lowest Band Edge / Full RB



Date: 21.SEP.2018 02:24:09

Highest Band Edge / Full RB

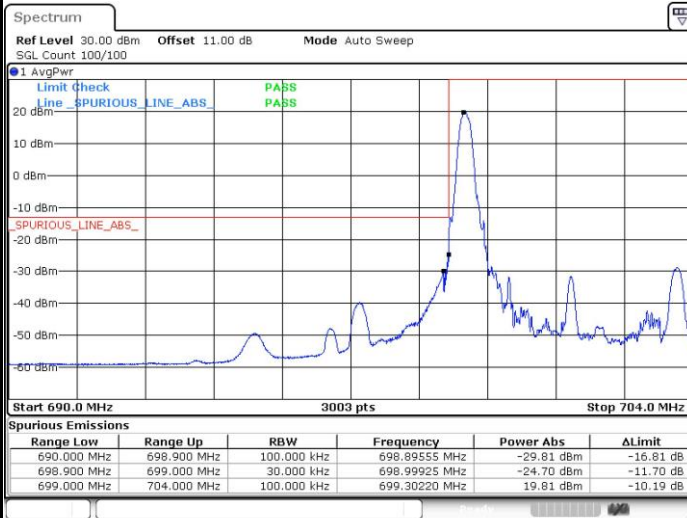


Date: 21.SEP.2018 02:34:11



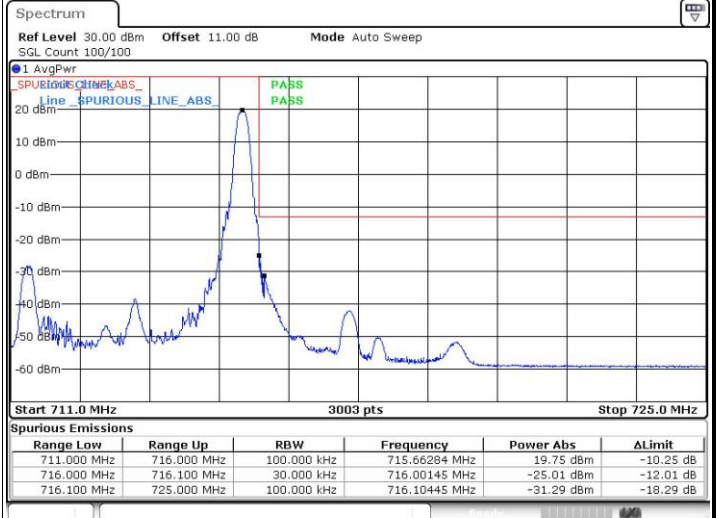
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



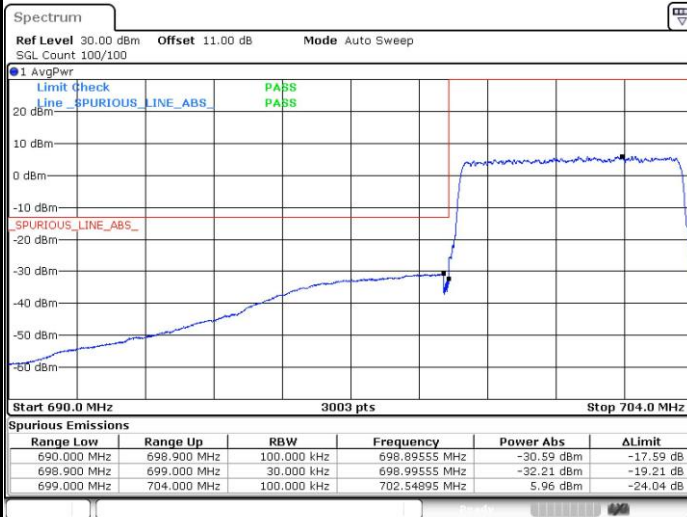
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Highest Band Edge / 1 RB



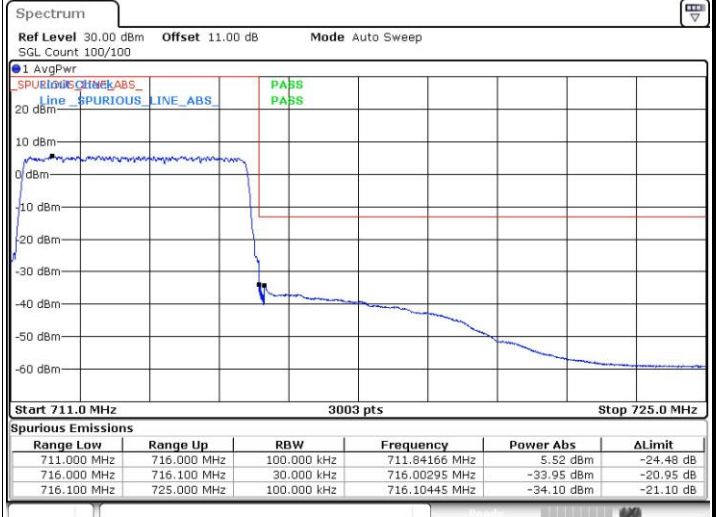
Date: 21.SEP.2018 02:37:42

Lowest Band Edge / Full RB



Date: 21.SEP.2018 02:25:20

Highest Band Edge / Full RB



Date: 21.SEP.2018 02:35:21