



## LTE Band 17

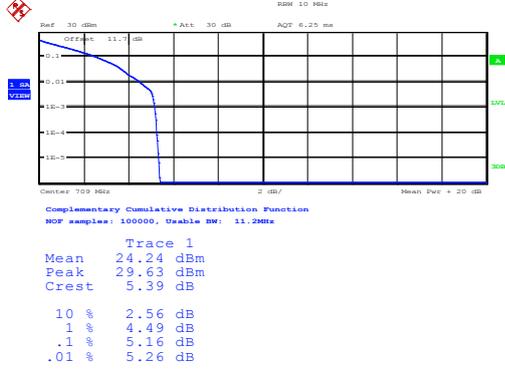
### Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.16	5.87	6.03	6.57	PASS
Middle CH	5.26	5.8	6.15	6.47	
Highest CH	5.35	5.74	6.22	6.38	



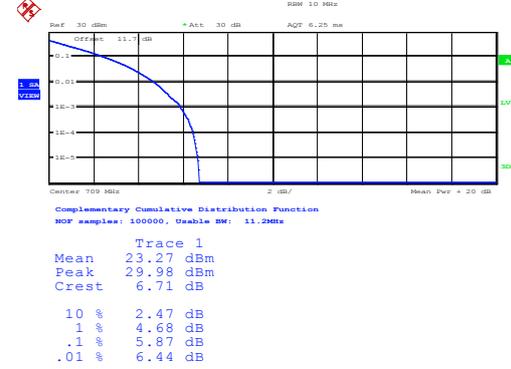
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



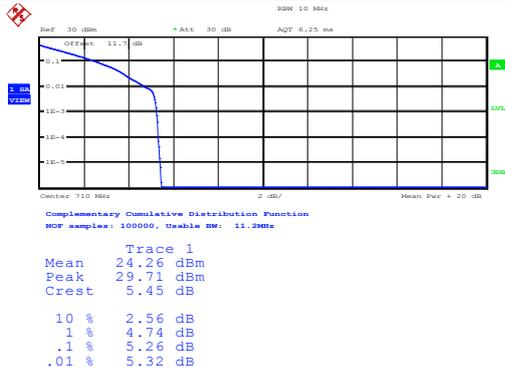
Date: 20.JAN.2015 22:32:56

Lowest Channel / Full RB



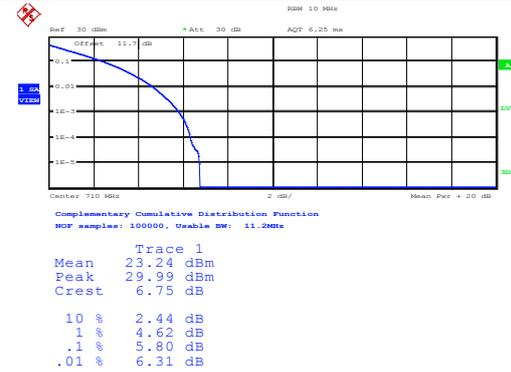
Date: 20.JAN.2015 22:33:13

Middle Channel/ 1RB



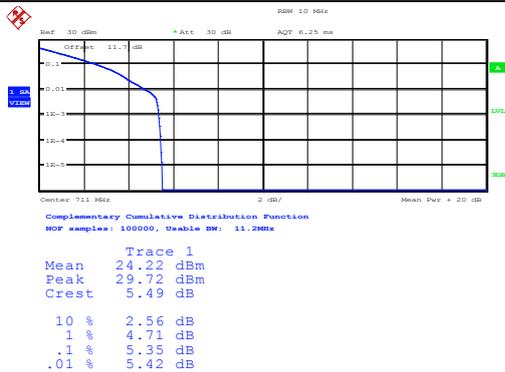
Date: 20.JAN.2015 22:33:30

Middle Channel / Full RB



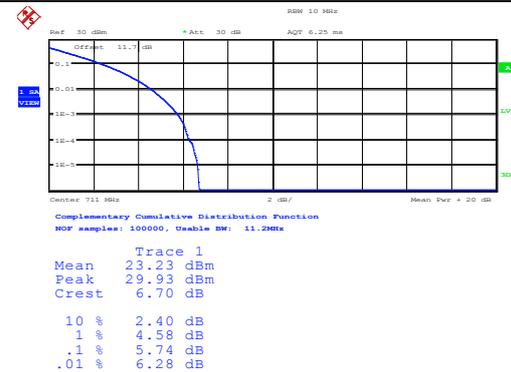
Date: 20.JAN.2015 22:33:54

Highest Channel/ 1RB



Date: 20.JAN.2015 22:34:13

Highest Channel / Full RB

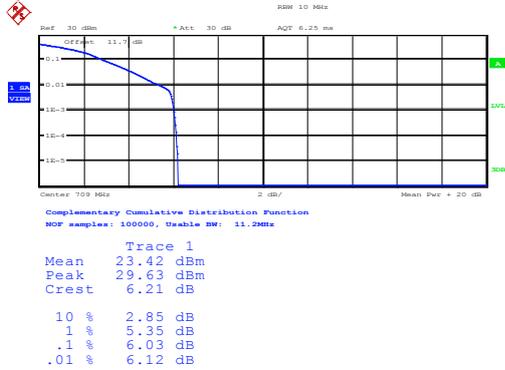


Date: 20.JAN.2015 22:34:30



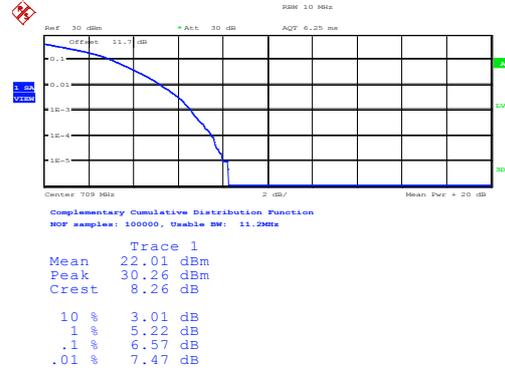
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



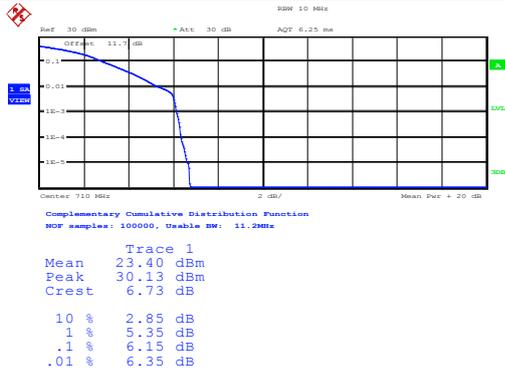
Date: 20.JAN.2015 22:30:32

Lowest Channel / Full RB



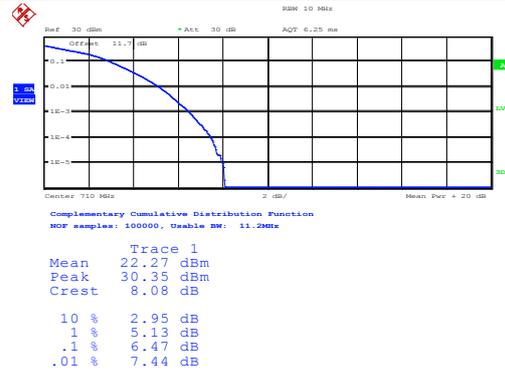
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Middle Channel/ 1RB



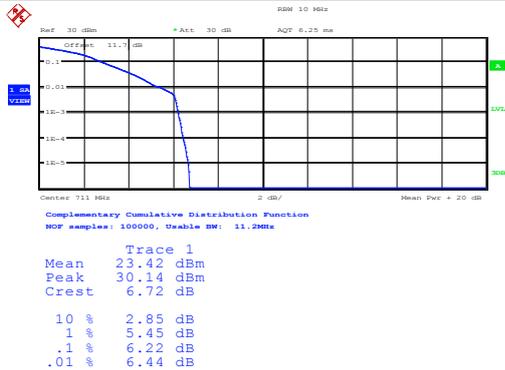
Date: 20.JAN.2015 22:31:18

Middle Channel / Full RB



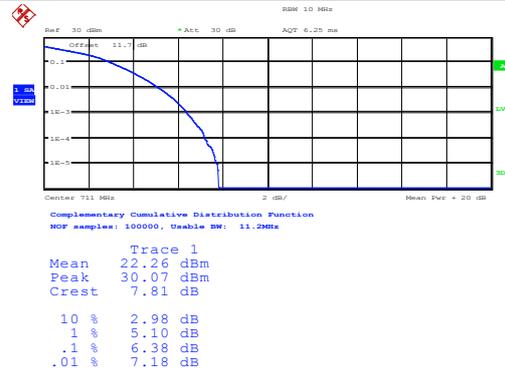
Date: 20.JAN.2015 22:31:49

Highest Channel/ 1RB



Date: 20.JAN.2015 22:32:15

Highest Channel / Full RB



Date: 20.JAN.2015 22:32:32



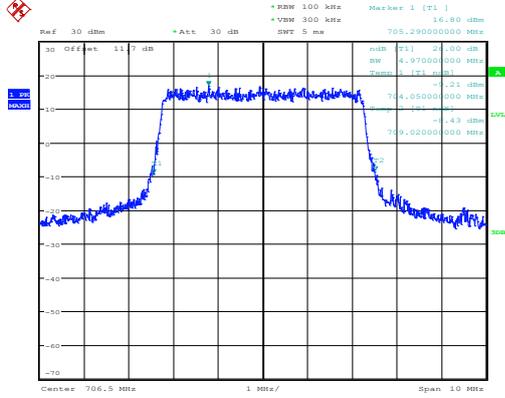
**26dB Bandwidth**

Mode	LTE Band 17 : 26dB BW(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	-	-	-	-	4.97	4.98	10.42	10.36	-	-	-	-
Middle CH	-	-	-	-	5.08	4.96	10.28	10.36	-	-	-	-
Highest CH	-	-	-	-	4.96	5	10.34	10.26	-	-	-	-



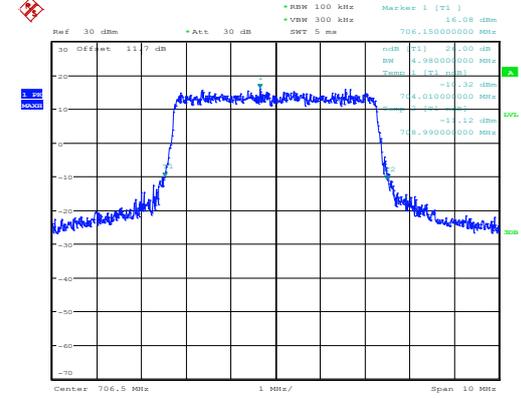
LTE Band 17

Lowest Channel / 5MHz / QPSK



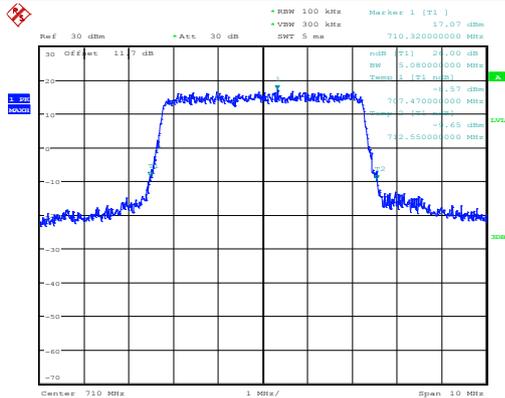
Date: 20.JAN.2015 21:12:59

Lowest Channel / 5MHz / 16QAM



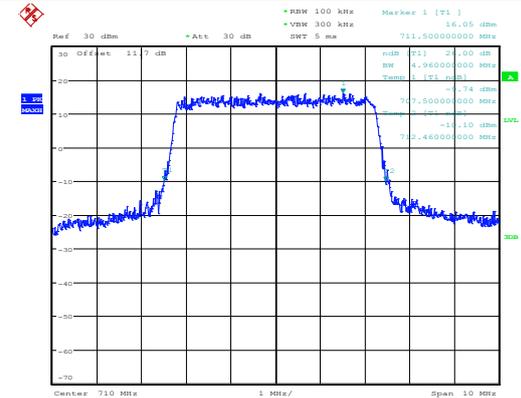
Date: 20.JAN.2015 21:13:16

Middle Channel / 5MHz / QPSK



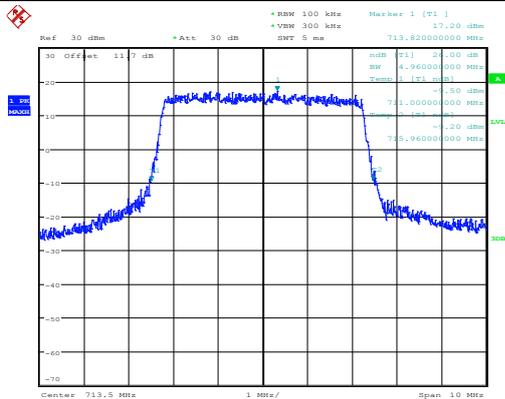
Date: 20.JAN.2015 21:21:33

Middle Channel / 5MHz / 16QAM



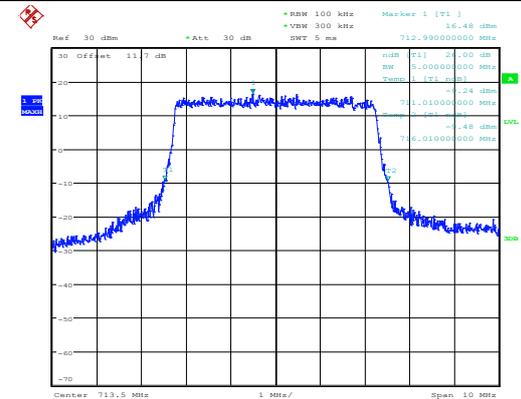
Date: 20.JAN.2015 21:21:56

Highest Channel / 5MHz / QPSK



Date: 20.JAN.2015 21:25:12

Highest Channel / 5MHz / 16QAM

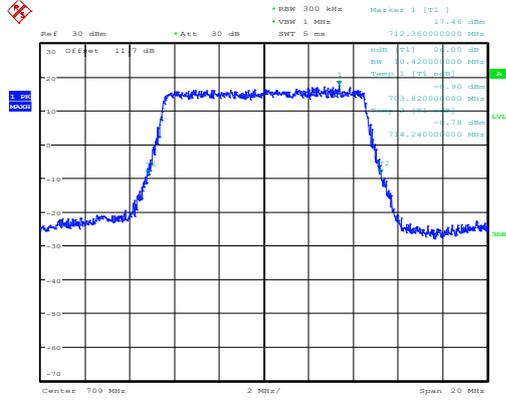


Date: 20.JAN.2015 21:25:29



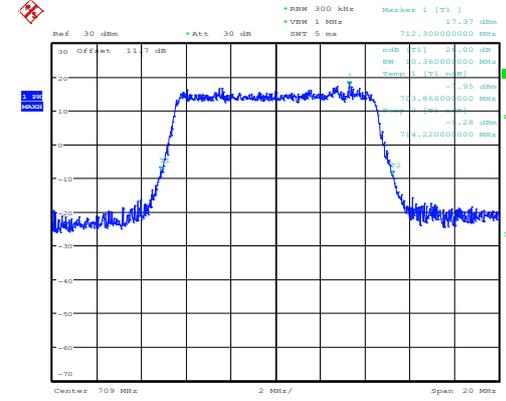
LTE Band 17

Lowest Channel / 10MHz / QPSK



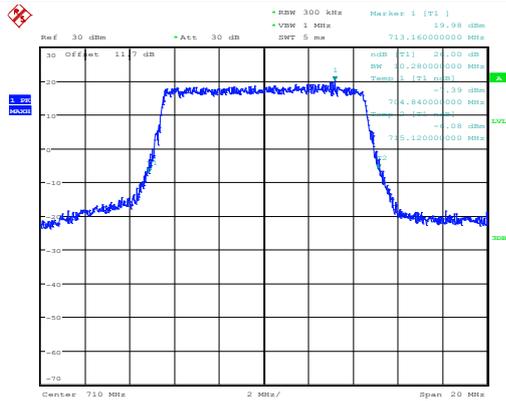
Date: 20.JAN.2015 22:07:15

Lowest Channel / 10MHz / 16QAM



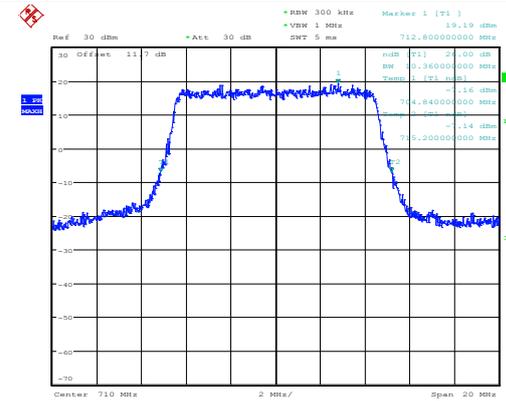
Date: 20.JAN.2015 22:07:33

Middle Channel / 10MHz / QPSK



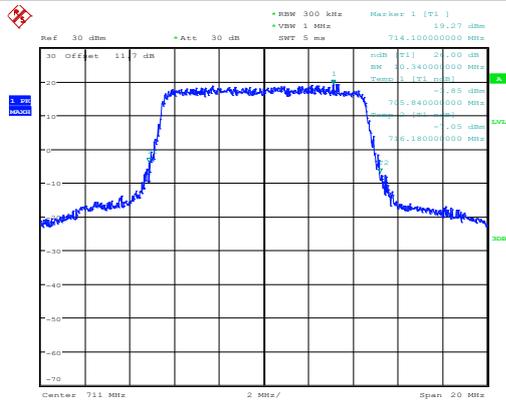
Date: 20.JAN.2015 22:15:50

Middle Channel / 10MHz / 16QAM



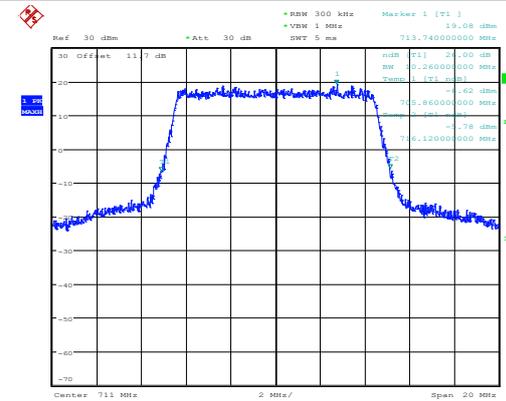
Date: 20.JAN.2015 22:16:07

Highest Channel / 10MHz / QPSK



Date: 20.JAN.2015 22:19:24

Highest Channel / 10MHz / 16QAM



Date: 20.JAN.2015 22:19:41



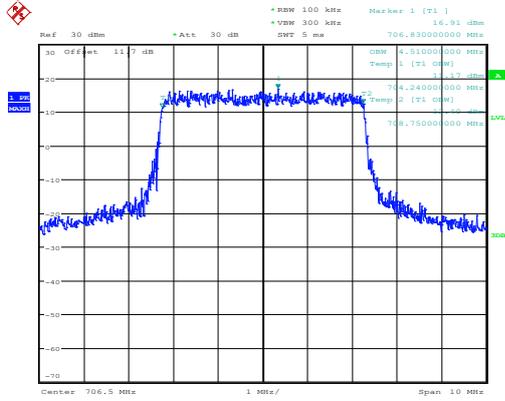
### Occupied Bandwidth

Mode	LTE Band 17 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.5	9.1	9.06	-	-	-	-
Middle CH	-	-	-	-	4.51	4.49	9.1	9.06	-	-	-	-
Highest CH	-	-	-	-	4.49	4.49	9.06	9.04	-	-	-	-



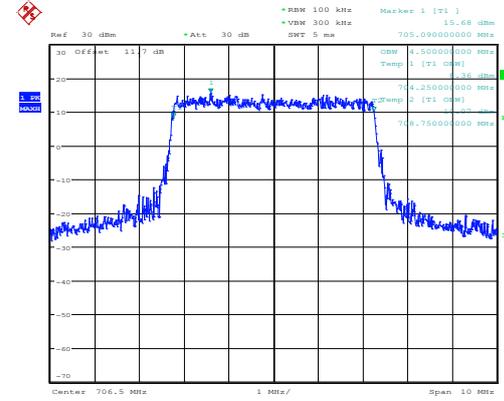
LTE Band 17

Lowest Channel / 5MHz / QPSK



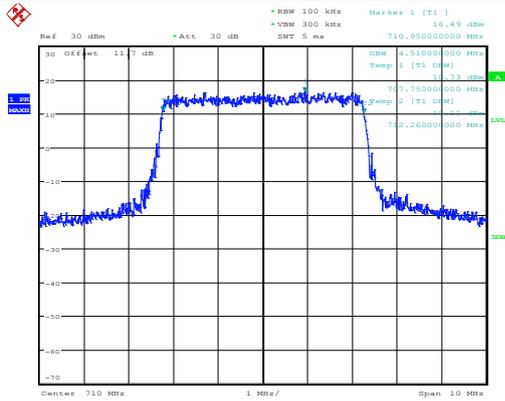
Date: 20.JAN.2015 21:12:28

Lowest Channel / 5MHz / 16QAM



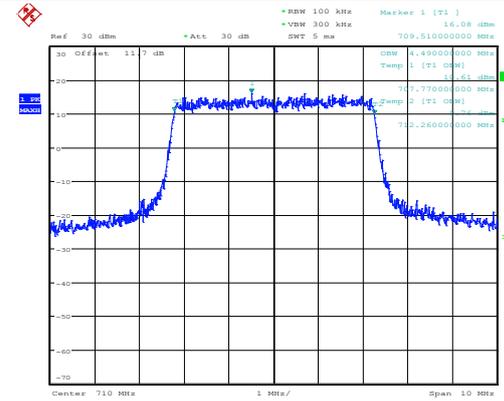
Date: 20.JAN.2015 21:12:42

Middle Channel / 5MHz / QPSK



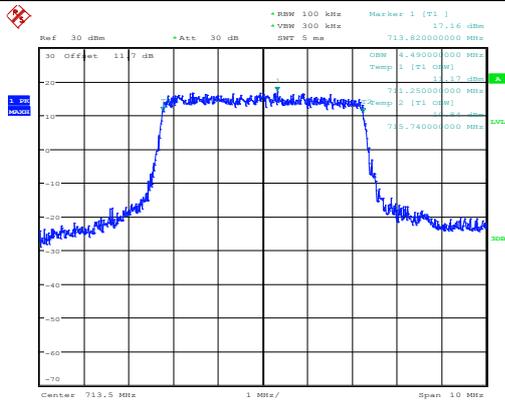
Date: 20.JAN.2015 21:20:59

Middle Channel / 5MHz / 16QAM



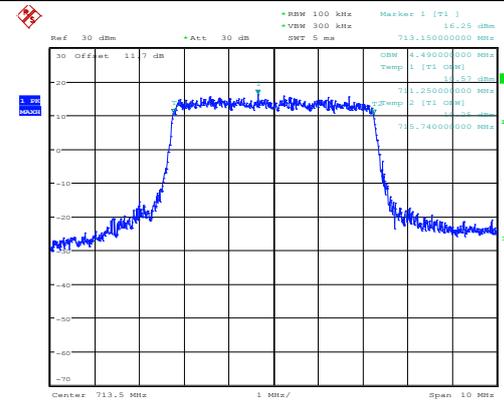
Date: 20.JAN.2015 21:21:14

Highest Channel / 5MHz / QPSK



Date: 20.JAN.2015 21:24:41

Highest Channel / 5MHz / 16QAM

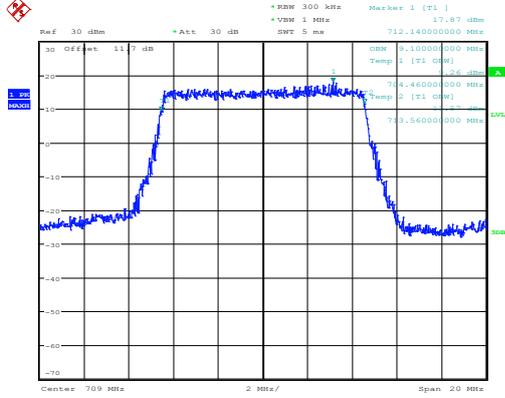


Date: 20.JAN.2015 21:24:56



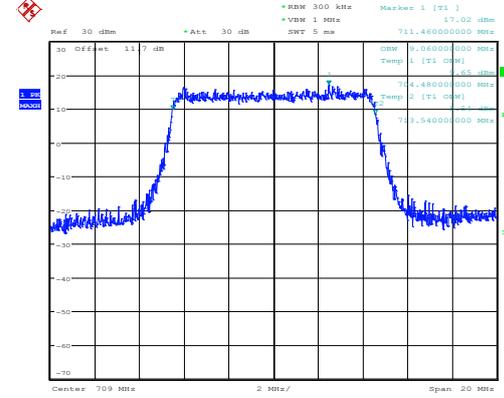
LTE Band 17

Lowest Channel / 10MHz / QPSK



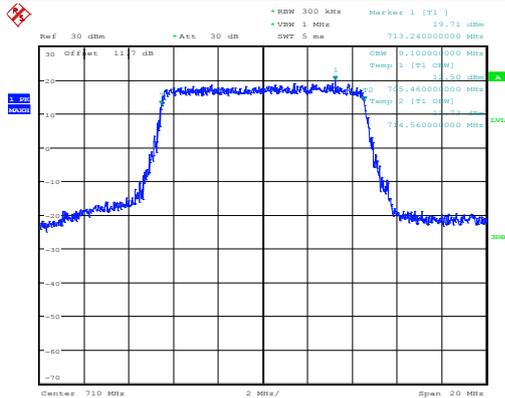
Date: 20.JAN.2015 22:06:43

Lowest Channel / 10MHz / 16QAM



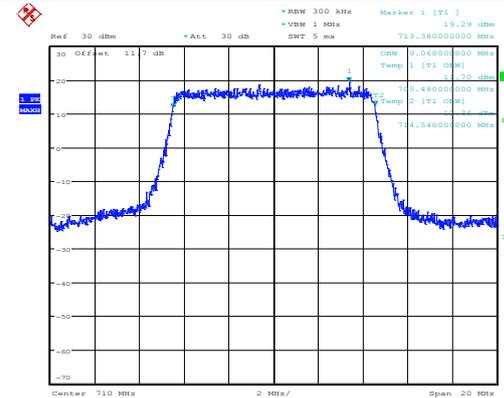
Date: 20.JAN.2015 22:06:58

Middle Channel / 10MHz / QPSK



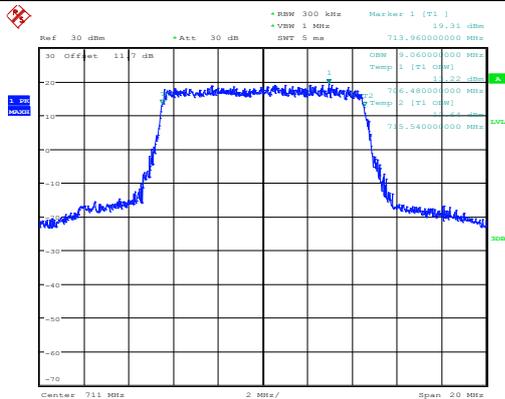
Date: 20.JAN.2015 22:15:18

Middle Channel / 10MHz / 16QAM



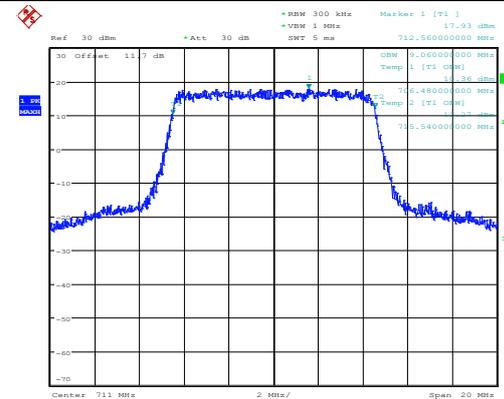
Date: 20.JAN.2015 22:15:33

Highest Channel / 10MHz / QPSK



Date: 20.JAN.2015 22:18:51

Highest Channel / 10MHz / 16QAM



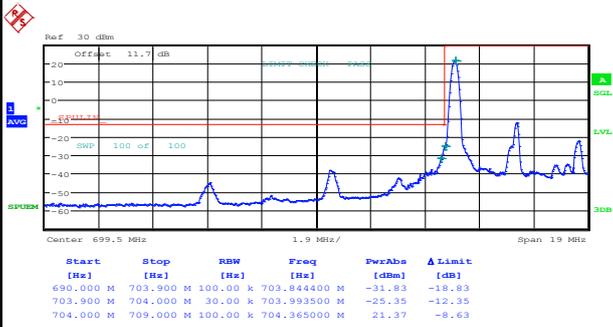
Date: 20.JAN.2015 22:19:07



# Conducted Band Edge

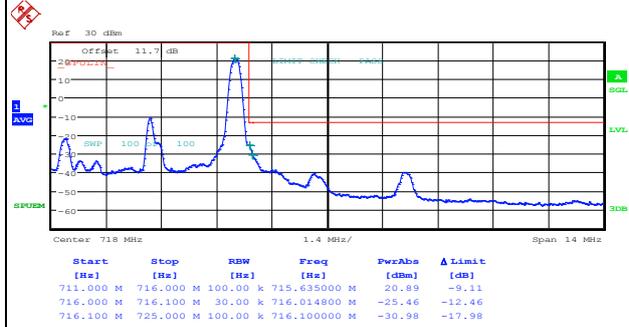
## LTE Band 17 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



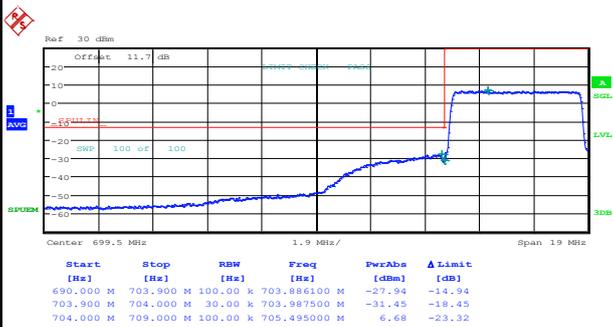
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### Highest Band Edge / 1 RB



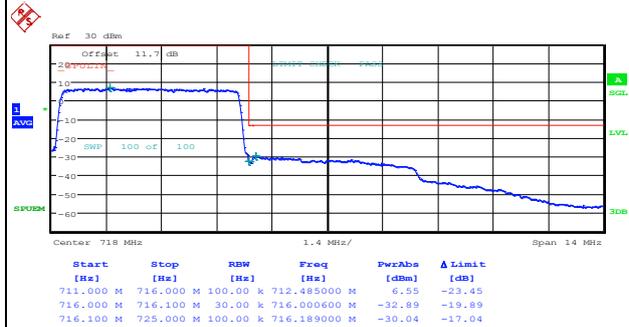
Date: 20.JAN.2015 21:26:44

### Lowest Band Edge / Full RB



Date: 20.JAN.2015 21:17:00

### Highest Band Edge / Full RB

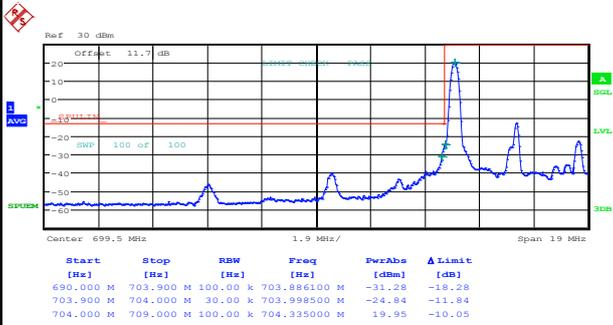


Date: 20.JAN.2015 21:29:13



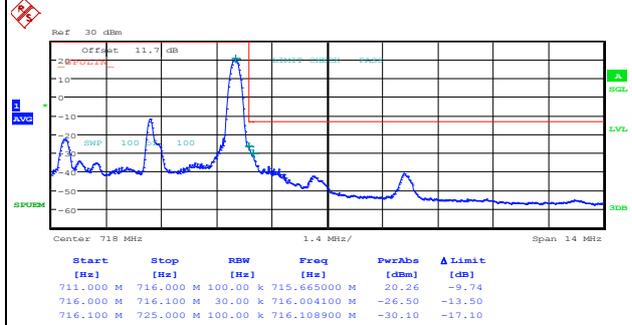
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



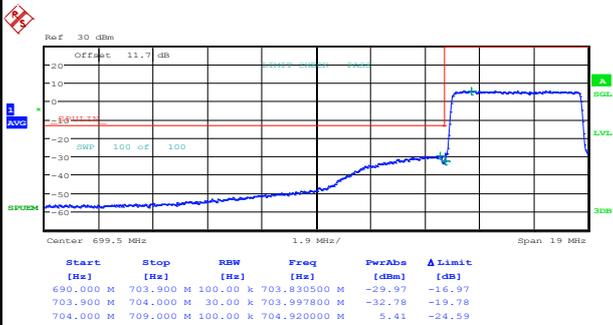
Date: 20.JAN.2015 21:15:45

Highest Band Edge / 1 RB



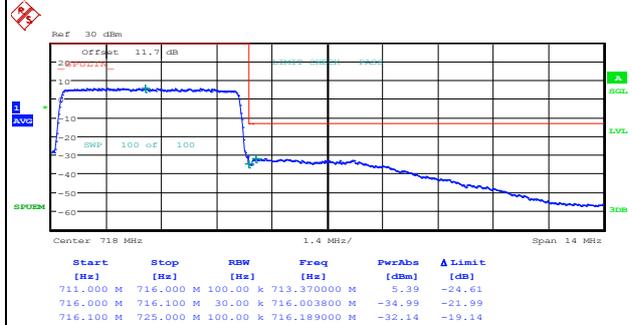
Date: 20.JAN.2015 21:27:59

Lowest Band Edge / Full RB



Date: 20.JAN.2015 21:18:14

Highest Band Edge / Full RB

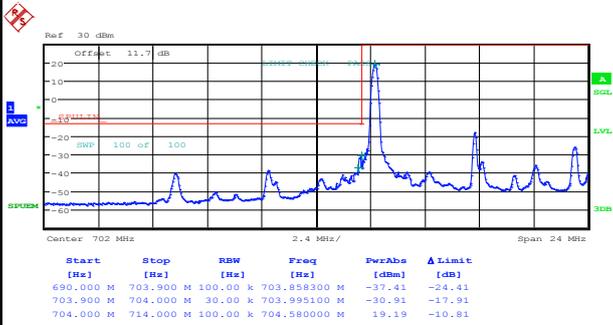


Date: 20.JAN.2015 21:30:28



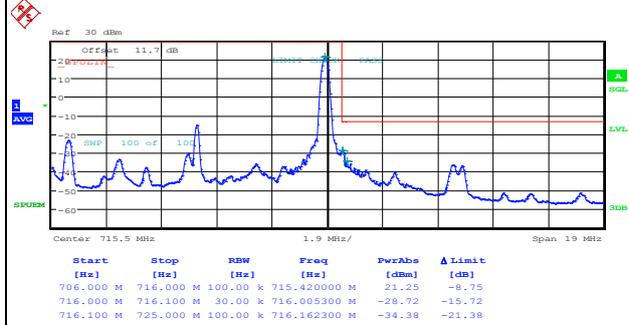
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



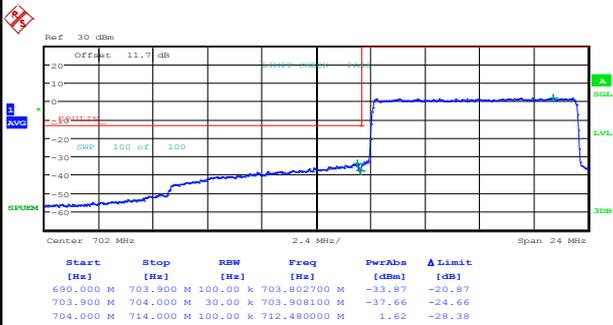
Date: 20.JAN.2015 22:08:47

Highest Band Edge / 1 RB



Date: 20.JAN.2015 22:20:55

Lowest Band Edge / Full RB



Date: 20.JAN.2015 22:11:17

Highest Band Edge / Full RB

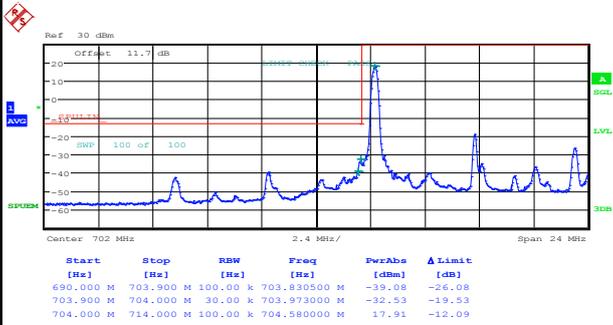


Date: 20.JAN.2015 22:23:25



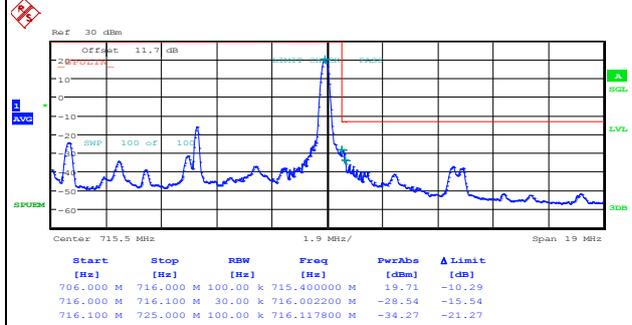
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



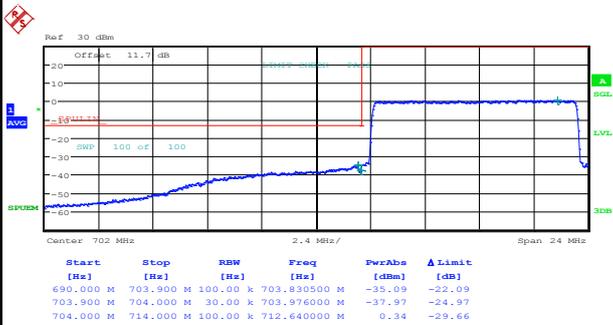
Date: 20.JAN.2015 22:10:02

Highest Band Edge / 1 RB



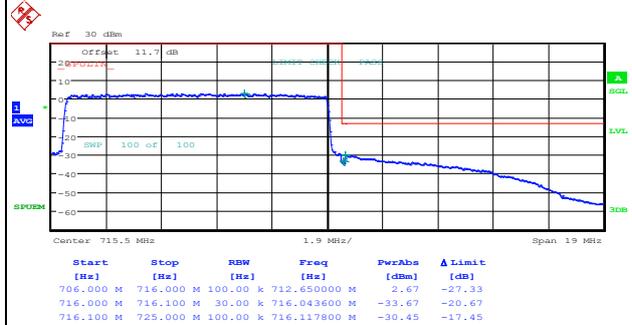
Date: 20.JAN.2015 22:22:10

Lowest Band Edge / Full RB



Date: 20.JAN.2015 22:12:32

Highest Band Edge / Full RB



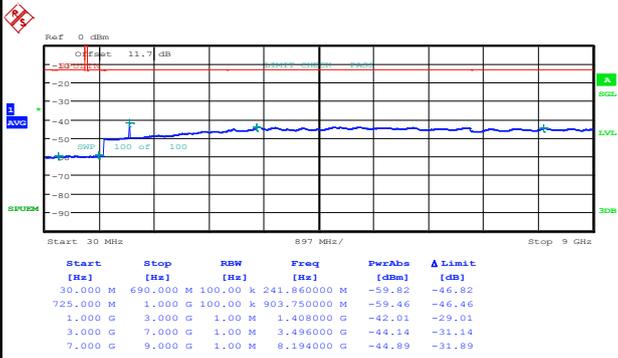
Date: 20.JAN.2015 22:24:40



# Conducted Spurious Emission

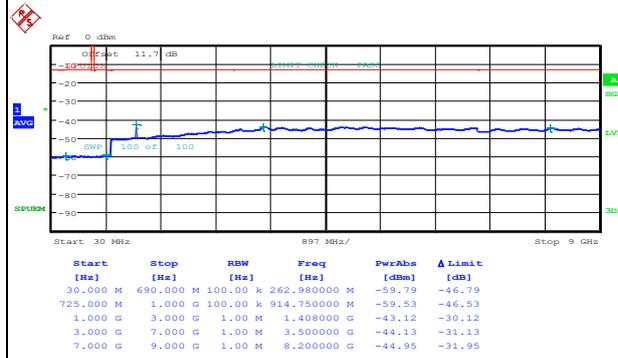
## LTE Band 17 / 5MHz

### Lowest Channel / QPSK



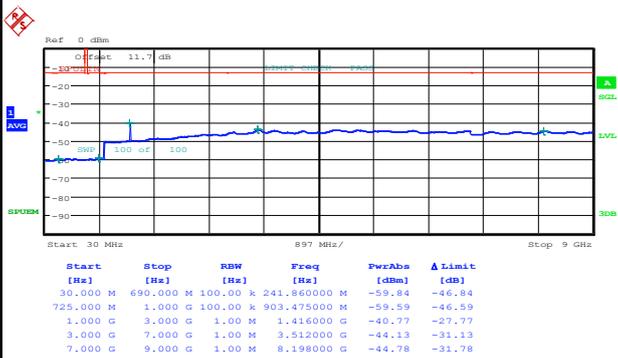
Date: 20.JAN.2015 21:19:29

### Lowest Channel / 16QAM



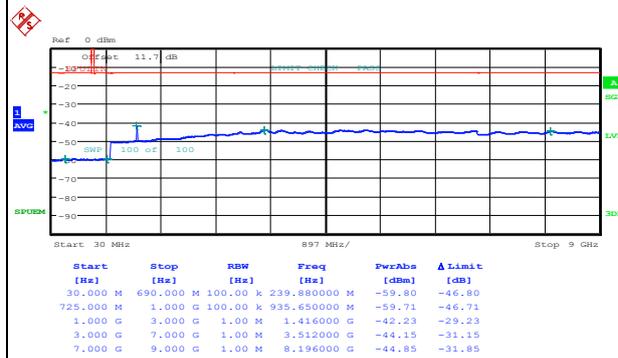
Date: 20.JAN.2015 21:20:44

### Middle Channel / QPSK



Date: 20.JAN.2015 21:23:10

### Middle Channel / 16QAM



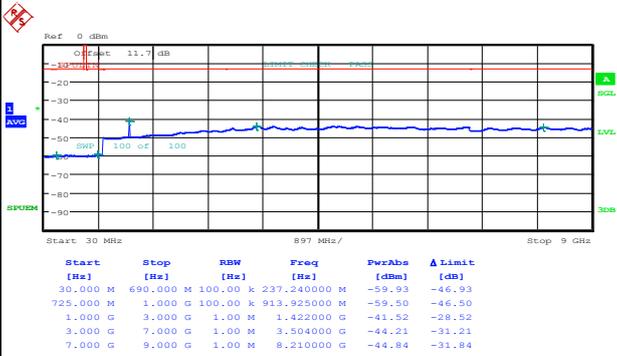
Date: 20.JAN.2015 21:24:25



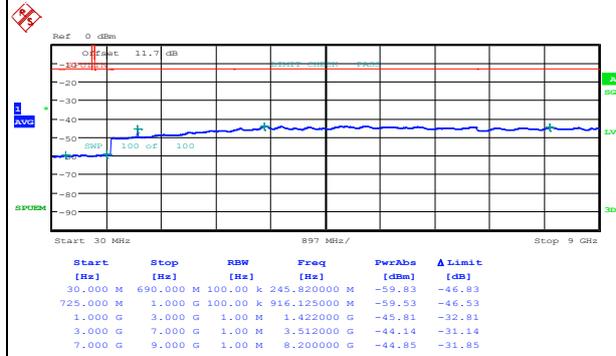
LTE Band 17 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20.JAN.2015 21:31:43

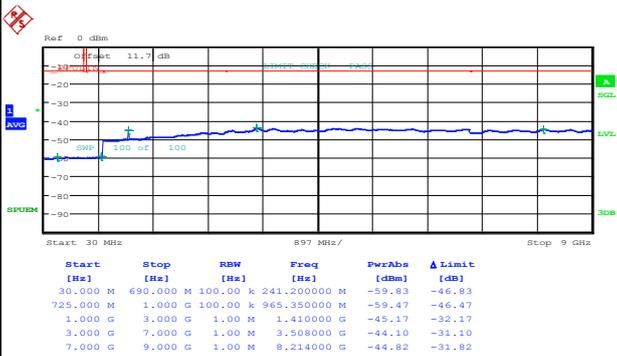


Date: 20.JAN.2015 22:06:20

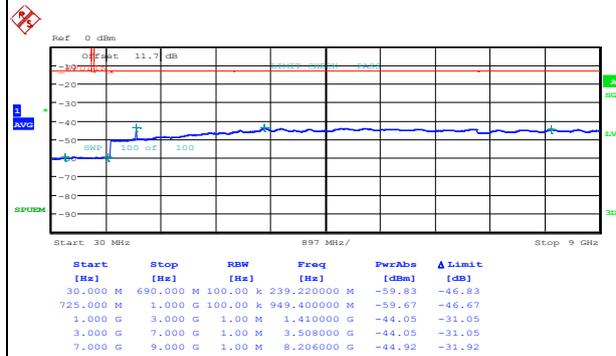
LTE Band 17 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 20.JAN.2015 22:13:47



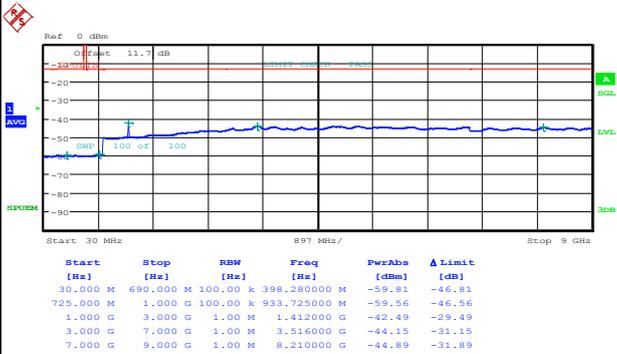
Date: 20.JAN.2015 22:15:02



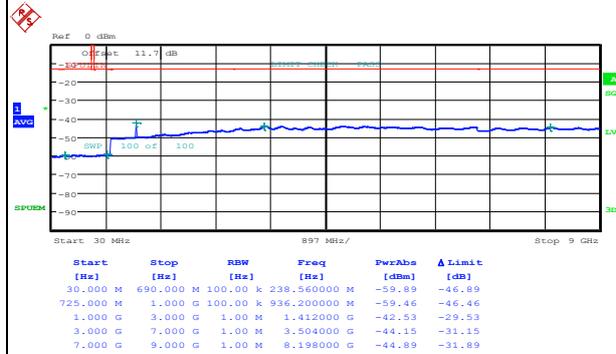
LTE Band 17 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 20.JAN.2015 22:17:22



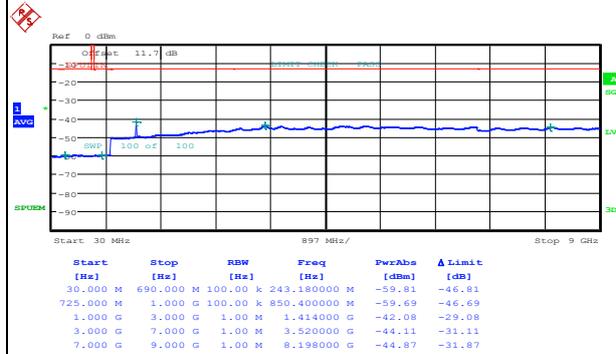
Date: 20.JAN.2015 22:18:36

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20.JAN.2015 22:25:55



Date: 20.JAN.2015 22:27:10



**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	0.0027	PASS
40	Normal Voltage	0.0065	
30	Normal Voltage	0.0082	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0045	
-30	Normal Voltage	0.0039	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Within Band
		Frequency Offset ( $\Delta f$ ) (Hz)	Result
50	Normal Voltage	1.9	PASS
40	Normal Voltage	4.6	
30	Normal Voltage	-5.8	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	2.5	
0	Normal Voltage	3.1	
-10	Normal Voltage	0.7	
-20	Normal Voltage	3.2	
-30	Normal Voltage	2.8	
20	Maximum Voltage	-0.8	
20	Normal Voltage	0	
20	Battery End Point	1.4	

$|\text{MAX}(\Delta f)| = 5.8 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L -  \text{MAX}(\Delta f) $	704.151993	$\geq 704 \text{ MHz}$	PASS
$f_H +  \text{MAX}(\Delta f) $	715.840007	$\leq 716 \text{ MHz}$	