



LTE Band 17

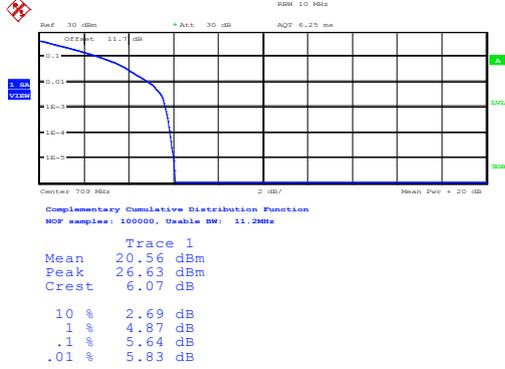
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.64	4.68	6.63	5.42	PASS
Middle CH	5.19	4.71	6.41	5.35	
Highest CH	4.33	4.65	5.45	5.22	



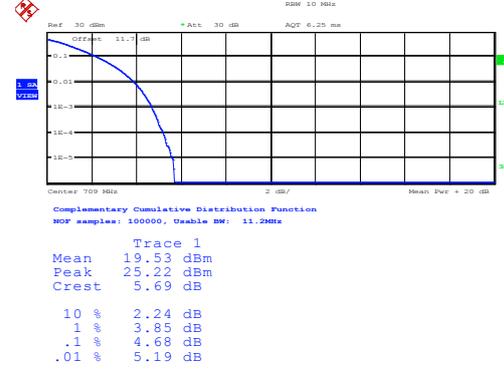
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



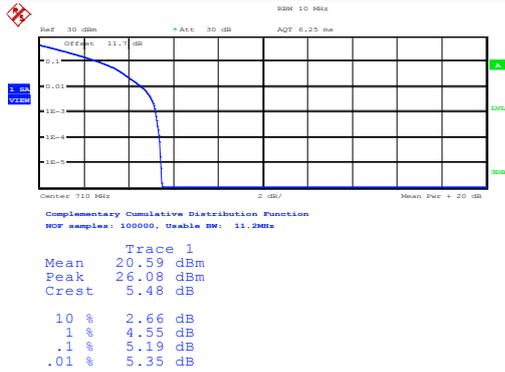
Date: 16.FEB.2015 10:07:48

Lowest Channel / Full RB



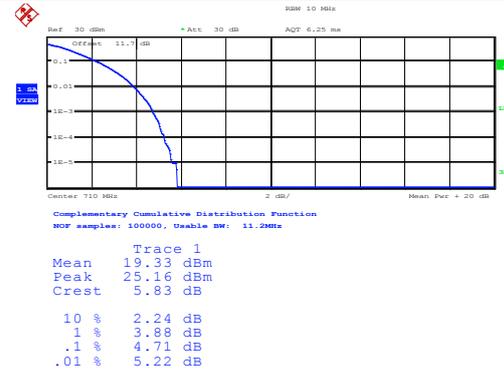
Date: 16.FEB.2015 10:08:04

Middle Channel/ 1RB



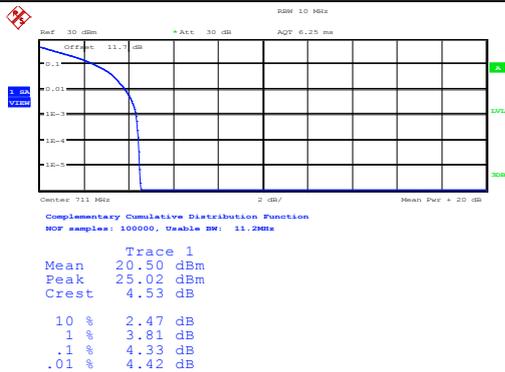
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Middle Channel / Full RB



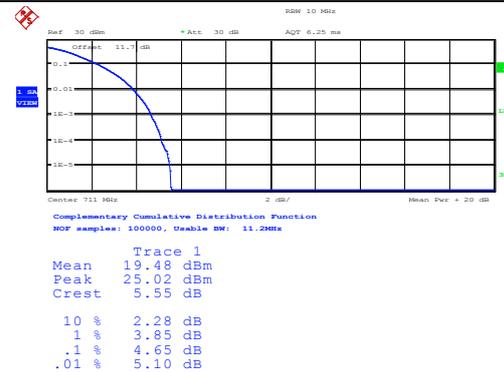
Date: 16.FEB.2015 10:08:37

Highest Channel/ 1RB



Date: 16.FEB.2015 10:08:51

Highest Channel / Full RB

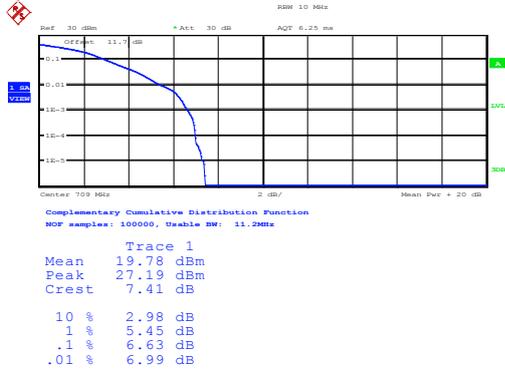


Date: 16.FEB.2015 10:09:06



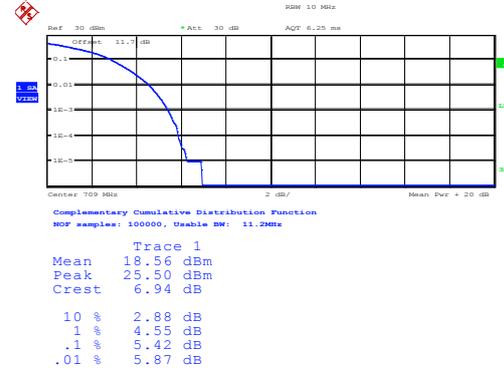
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



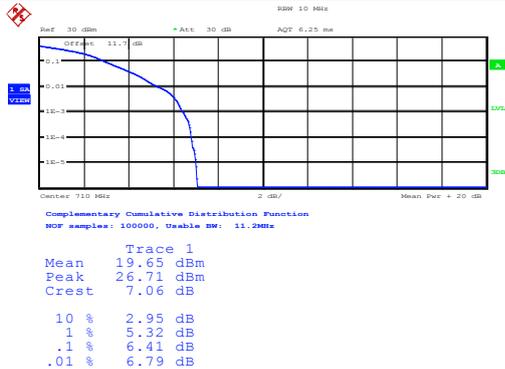
Date: 16.FEB.2015 10:03:57

Lowest Channel / Full RB



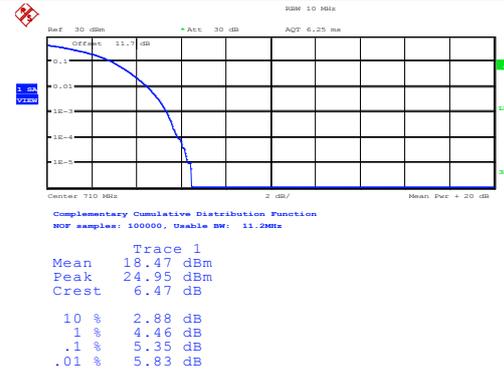
Date: 16.FEB.2015 10:05:57

Middle Channel / 1RB



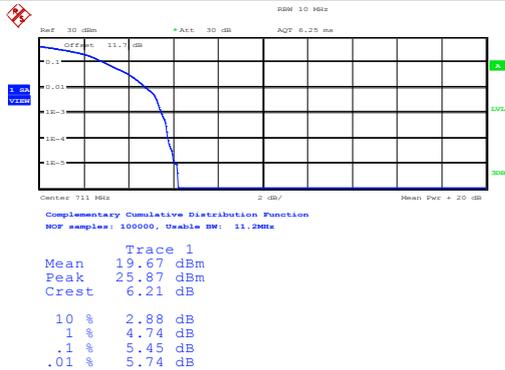
Date: 16.FEB.2015 10:06:30

Middle Channel / Full RB



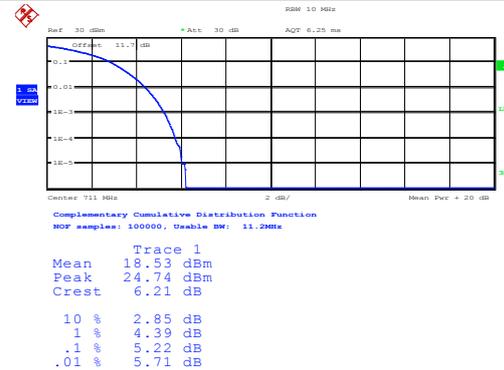
Date: 16.FEB.2015 10:06:48

Highest Channel / 1RB



Date: 16.FEB.2015 10:07:03

Highest Channel / Full RB



Date: 16.FEB.2015 10:07:22



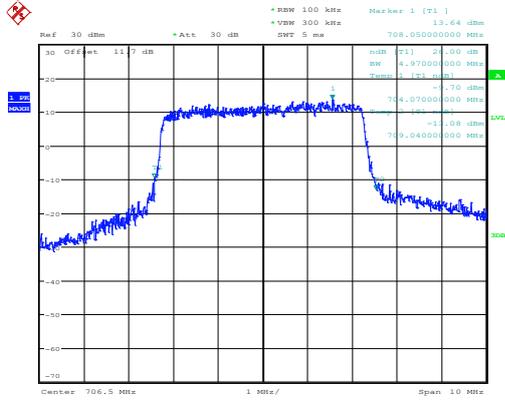
26dB Bandwidth

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	5.00	10.30	10.20	-	-	-	-
Middle CH	-	-	-	-	6.04	5.07	10.30	10.24	-	-	-	-
Highest CH	-	-	-	-	5.14	5.07	10.52	10.30	-	-	-	-



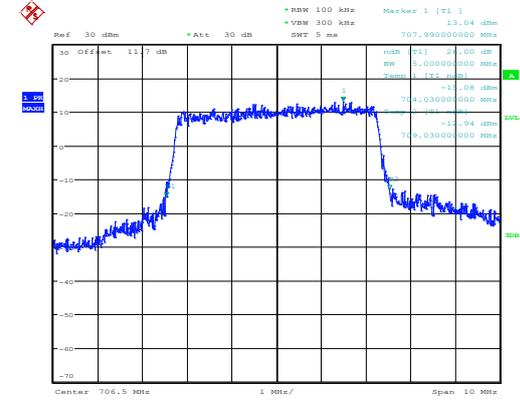
LTE Band 17

Lowest Channel / 5MHz / QPSK



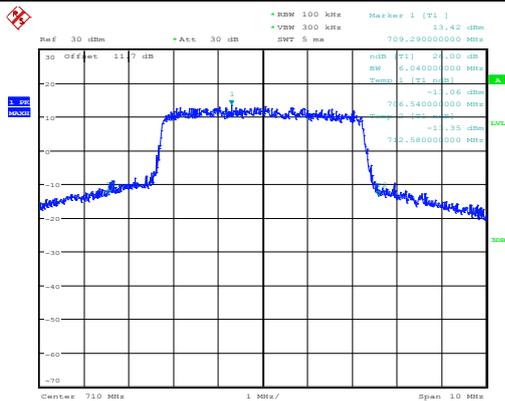
Date: 16.FEB.2015 09:24:48

Lowest Channel / 5MHz / 16QAM



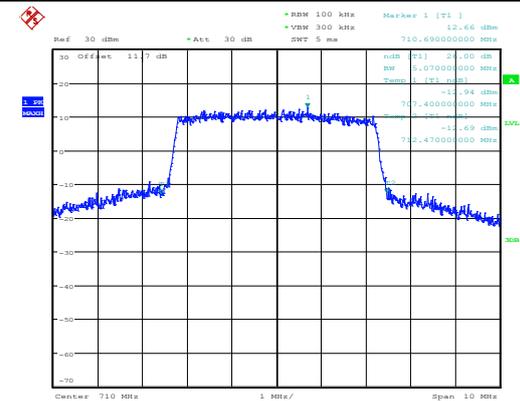
Date: 16.FEB.2015 09:25:01

Middle Channel / 5MHz / QPSK



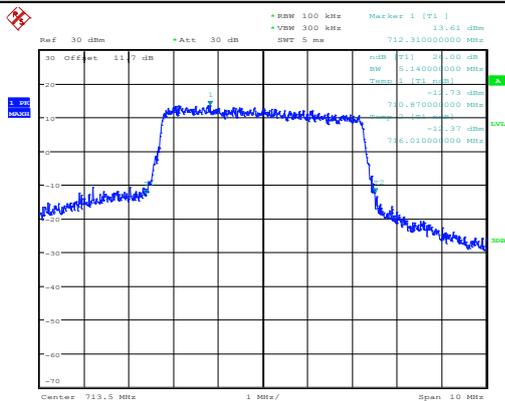
Date: 16.FEB.2015 09:32:34

Middle Channel / 5MHz / 16QAM



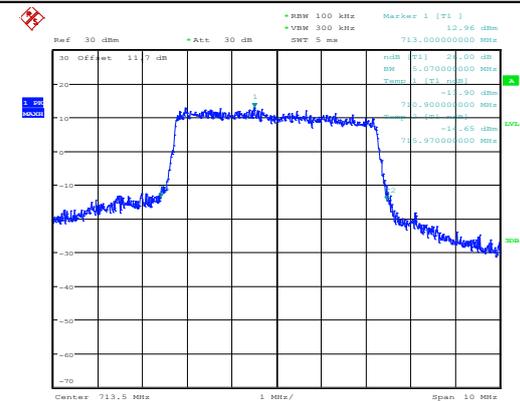
Date: 16.FEB.2015 09:32:47

Highest Channel / 5MHz / QPSK



Date: 16.FEB.2015 09:35:41

Highest Channel / 5MHz / 16QAM

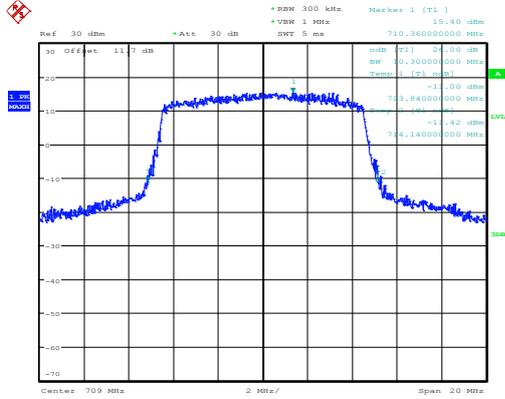


Date: 16.FEB.2015 09:35:54



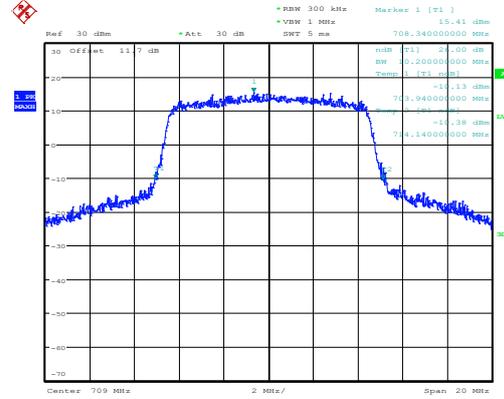
LTE Band 17

Lowest Channel / 10MHz / QPSK



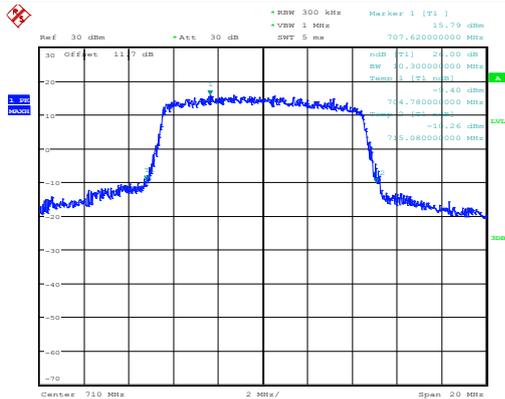
Date: 16.FEB.2015 09:43:31

Lowest Channel / 10MHz / 16QAM



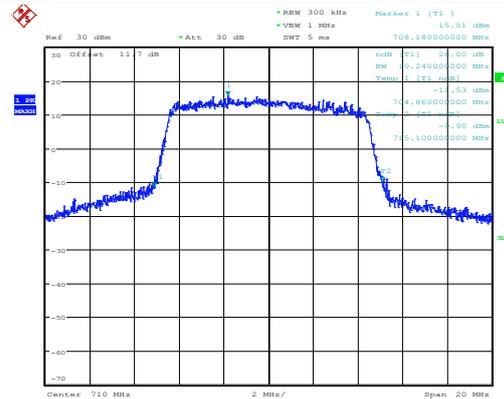
Date: 16.FEB.2015 09:43:44

Middle Channel / 10MHz / QPSK



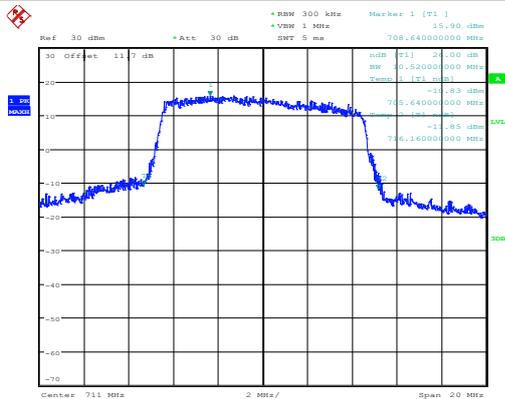
Date: 16.FEB.2015 09:51:18

Middle Channel / 10MHz / 16QAM



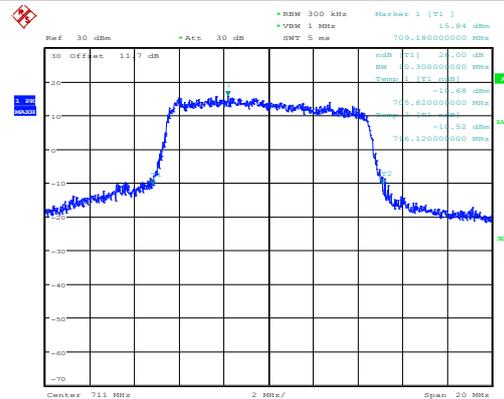
Date: 16.FEB.2015 09:51:31

Highest Channel / 10MHz / QPSK



Date: 16.FEB.2015 09:54:25

Highest Channel / 10MHz / 16QAM



Date: 16.FEB.2015 09:54:38



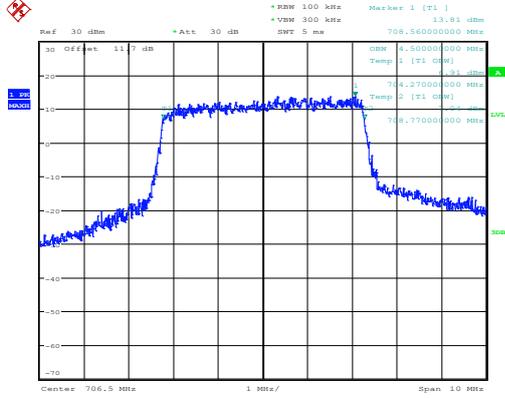
Occupied Bandwidth

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
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.50	9.00	9.00	-	-	-	-
Middle CH	-	-	-	-	4.55	4.51	9.06	8.98	-	-	-	-
Highest CH	-	-	-	-	4.51	4.51	9.06	9.04	-	-	-	-



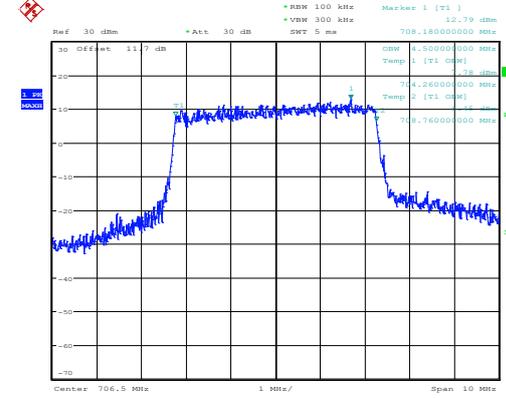
LTE Band 17

Lowest Channel / 5MHz / QPSK



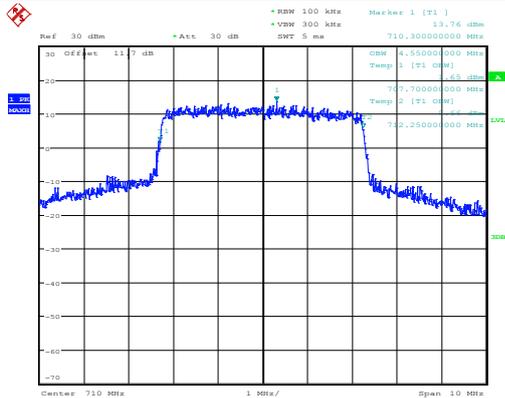
Date: 16.FEB.2015 10:25:26

Lowest Channel / 5MHz / 16QAM



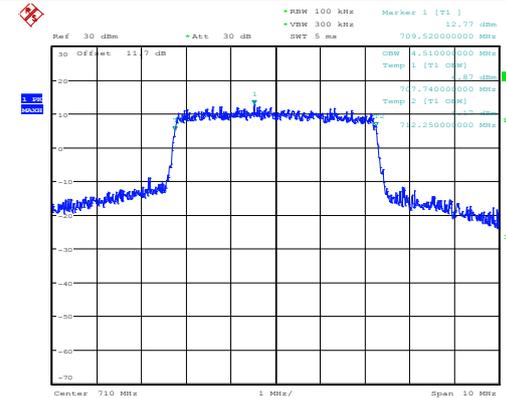
Date: 16.FEB.2015 09:24:35

Middle Channel / 5MHz / QPSK



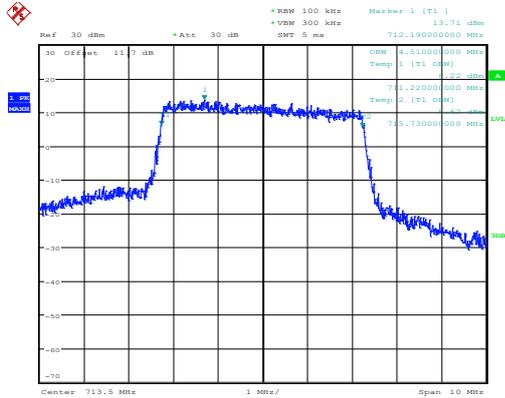
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Middle Channel / 5MHz / 16QAM



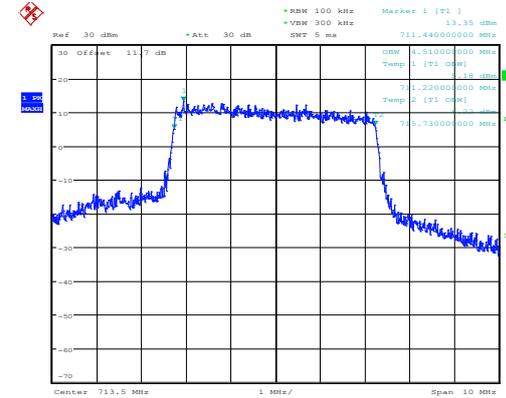
Date: 16.FEB.2015 09:32:21

Highest Channel / 5MHz / QPSK



Date: 16.FEB.2015 09:35:17

Highest Channel / 5MHz / 16QAM

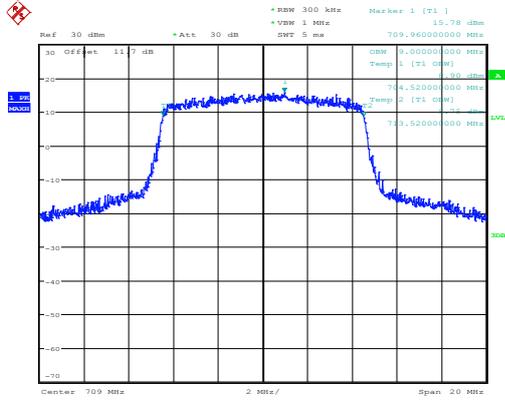


Date: 16.FEB.2015 09:35:28



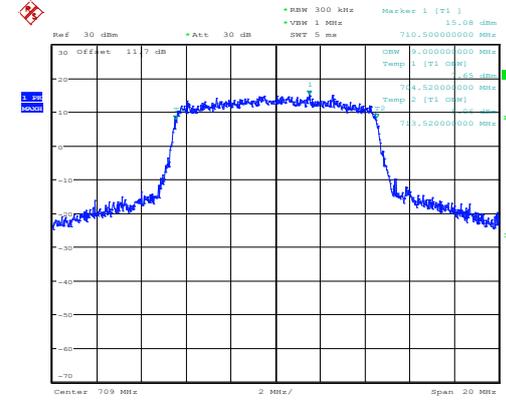
LTE Band 17

Lowest Channel / 10MHz / QPSK



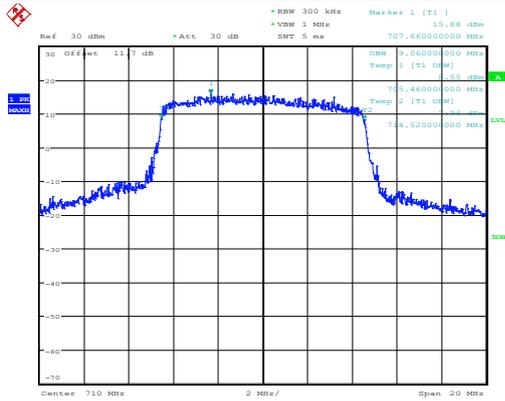
Date: 16.FEB.2015 09:43:08

Lowest Channel / 10MHz / 16QAM



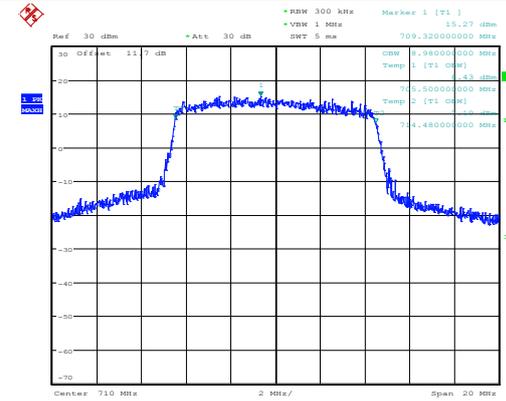
Date: 16.FEB.2015 09:43:18

Middle Channel / 10MHz / QPSK



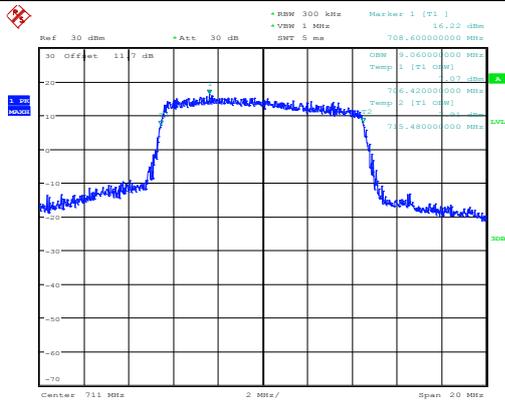
Date: 16.FEB.2015 09:50:54

Middle Channel / 10MHz / 16QAM



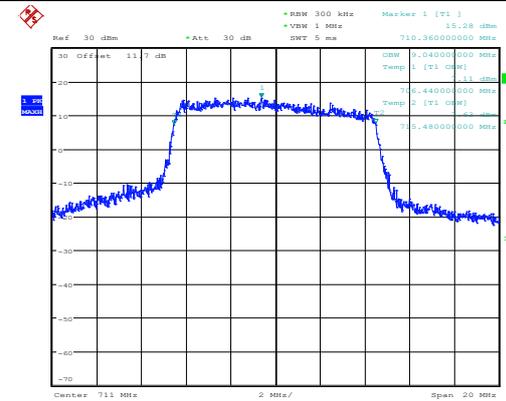
Date: 16.FEB.2015 09:51:05

Highest Channel / 10MHz / QPSK



Date: 16.FEB.2015 09:54:01

Highest Channel / 10MHz / 16QAM



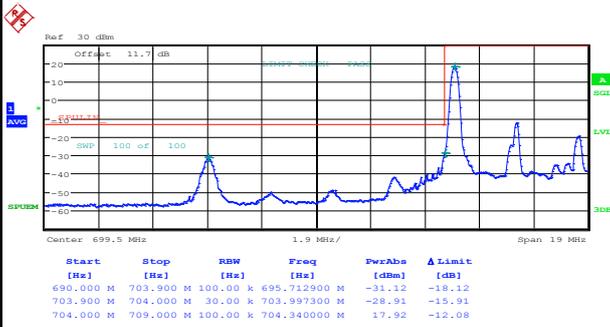
Date: 16.FEB.2015 09:54:12



Conducted Band Edge

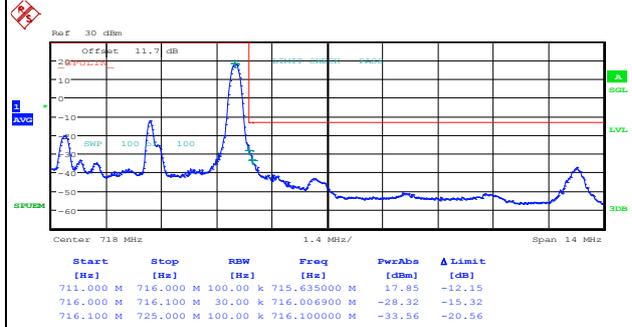
LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB



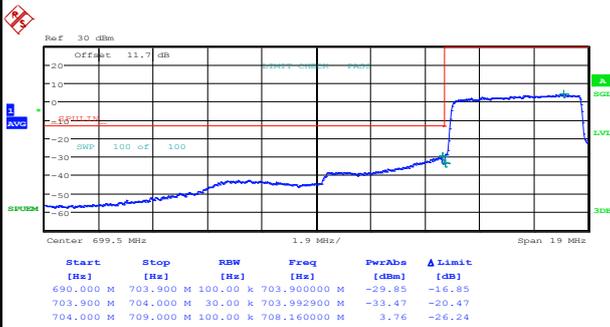
Date: 16.FEB.2015 09:26:10

Highest Band Edge / 1 RB



Date: 16.FEB.2015 09:37:03

Lowest Band Edge / Full RB



Date: 16.FEB.2015 09:28:30

Highest Band Edge / Full RB

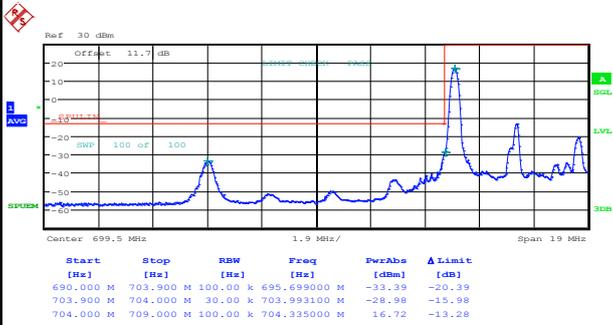


Date: 16.FEB.2015 09:39:23



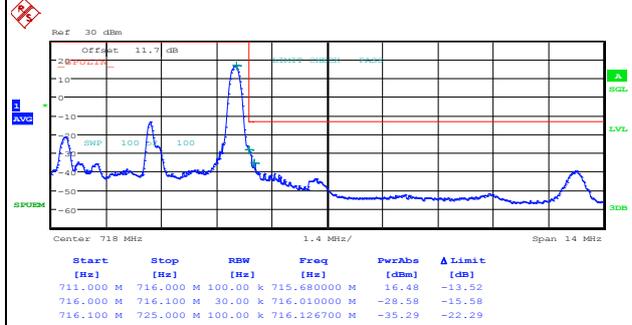
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



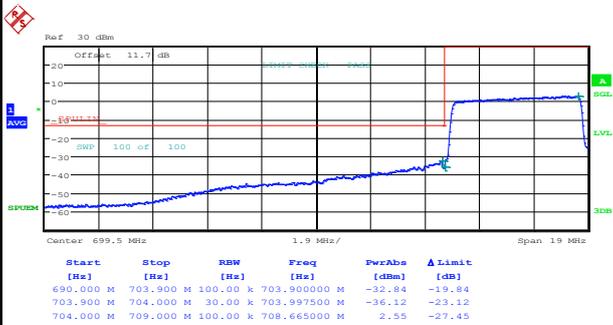
Date: 16.FEB.2015 09:27:20

Highest Band Edge / 1 RB



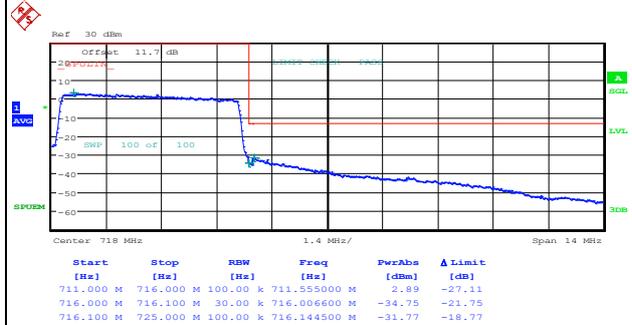
Date: 16.FEB.2015 09:38:13

Lowest Band Edge / Full RB



Date: 16.FEB.2015 09:29:40

Highest Band Edge / Full RB

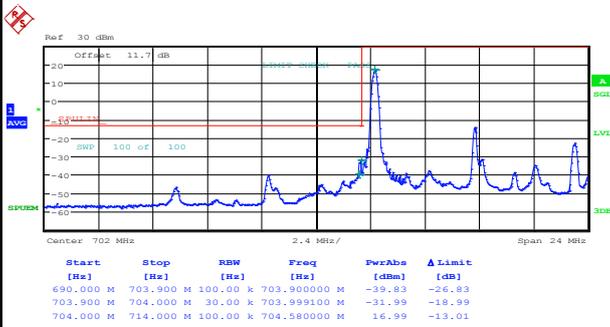


Date: 16.FEB.2015 09:40:33



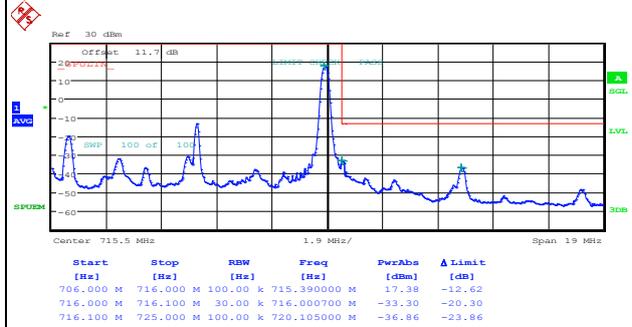
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



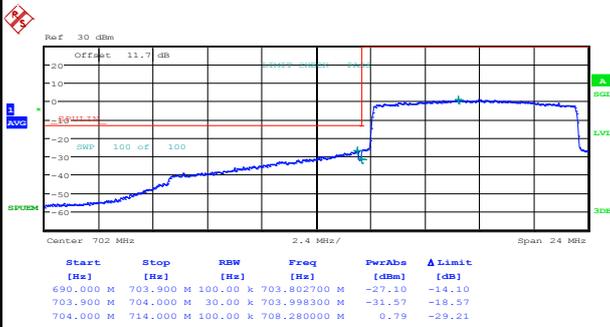
Date: 16.FEB.2015 09:44:54

Highest Band Edge / 1 RB



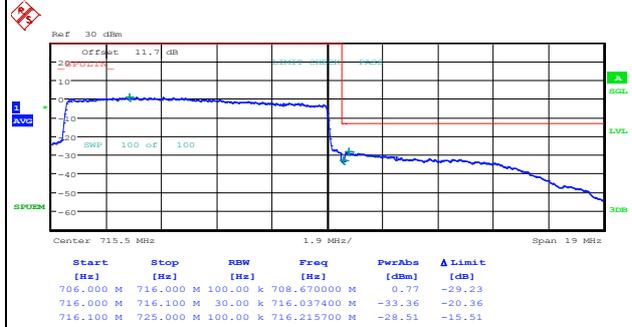
Date: 16.FEB.2015 09:55:47

Lowest Band Edge / Full RB



Date: 16.FEB.2015 09:47:13

Highest Band Edge / Full RB



Date: 16.FEB.2015 09:58:07



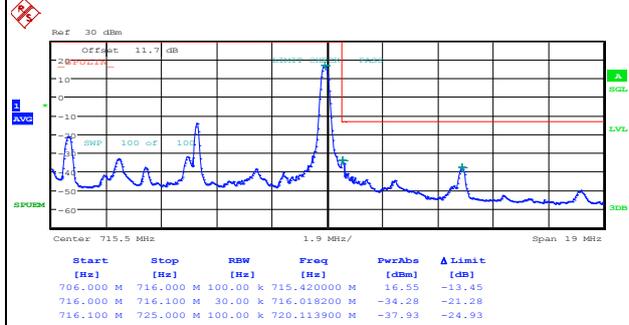
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



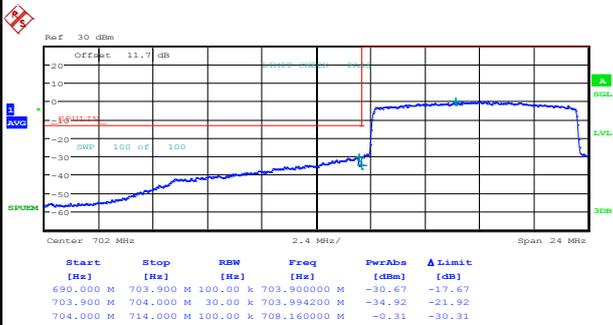
Date: 16.FEB.2015 09:46:04

Highest Band Edge / 1 RB



Date: 16.FEB.2015 09:56:57

Lowest Band Edge / Full RB



Date: 16.FEB.2015 09:48:23

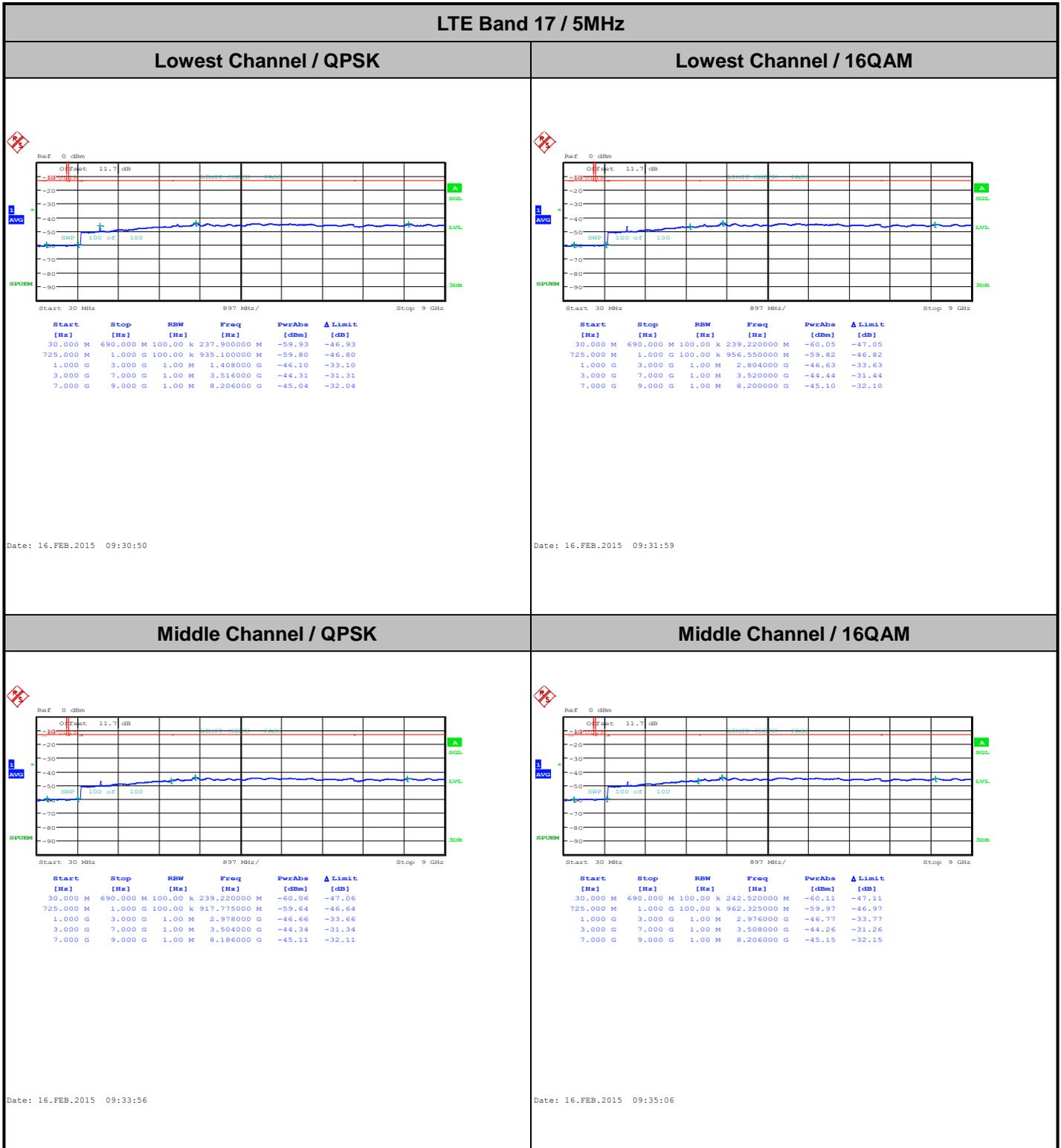
Highest Band Edge / Full RB



Date: 16.FEB.2015 09:59:16



Conducted Spurious Emission

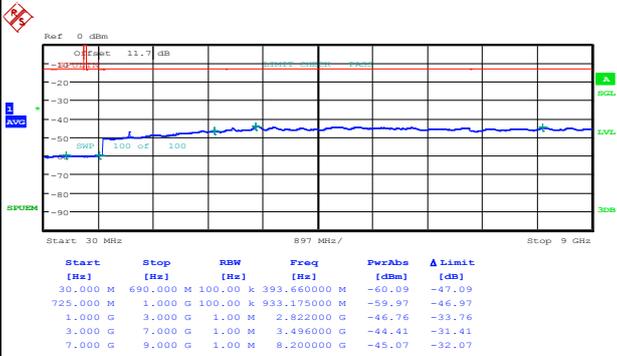




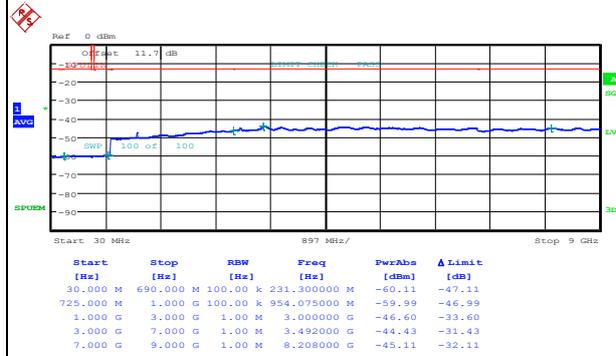
LTE Band 17 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.FEB.2015 09:41:42

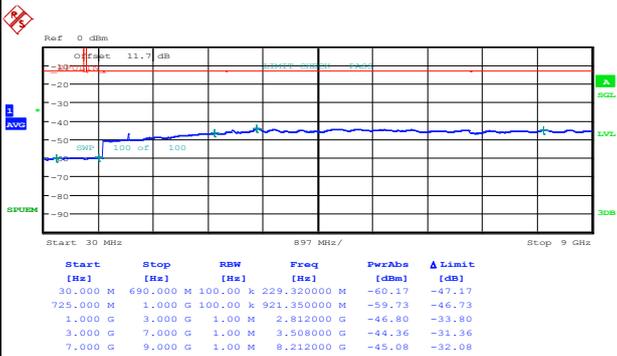


Date: 16.FEB.2015 09:42:52

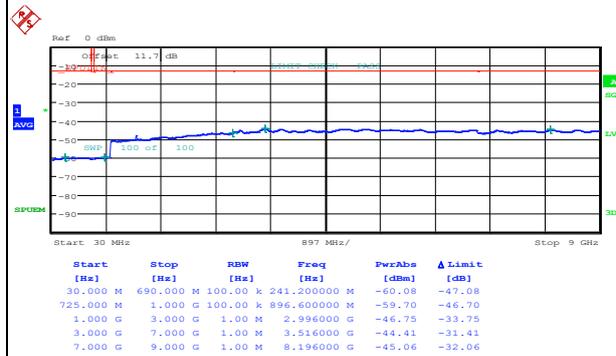
LTE Band 17 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 16.FEB.2015 09:49:33



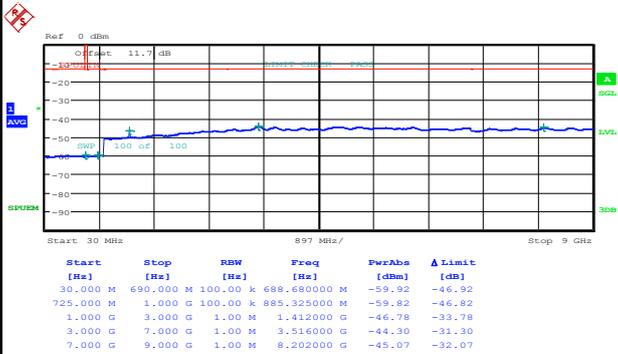
Date: 16.FEB.2015 09:50:43



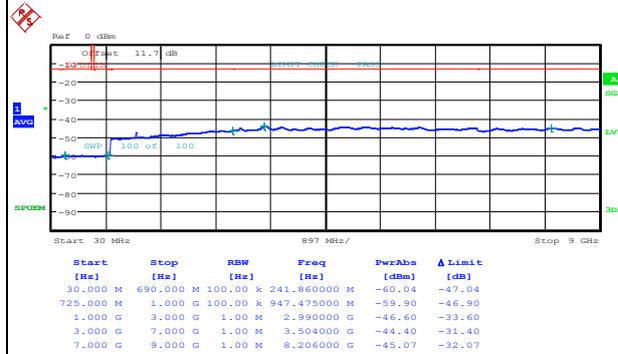
LTE Band 17 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



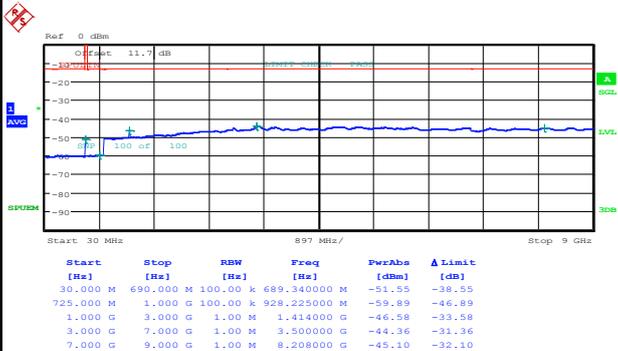
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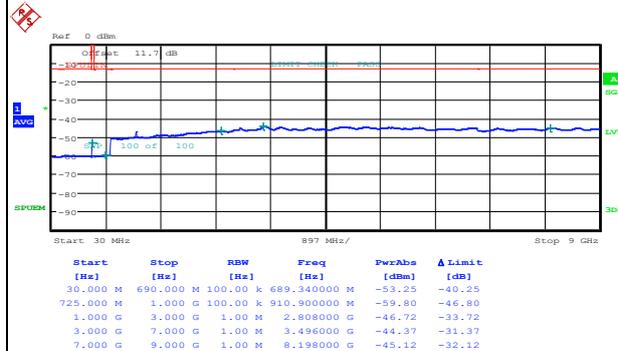
Date: 16.FEB.2015 09:53:50

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16.FEB.2015 10:00:26



Date: 16.FEB.2015 10:01:36



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	0.0013	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 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 (Δf) (Hz)	Result
50	Normal Voltage	-0.9	PASS
40	Normal Voltage	-0.4	
30	Normal Voltage	-1.4	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	-1.6	
0	Normal Voltage	0.5	
-10	Normal Voltage	-0.7	
-20	Normal Voltage	1.7	
-30	Normal Voltage	0.6	
20	Maximum Voltage	-1.3	
20	Normal Voltage	0	
20	Battery End Point	-1.9	

$|\text{MAX}(\Delta f)| = 1.9 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	704.167989	$\geq 704 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	715.835011	$\leq 716 \text{ MHz}$	