



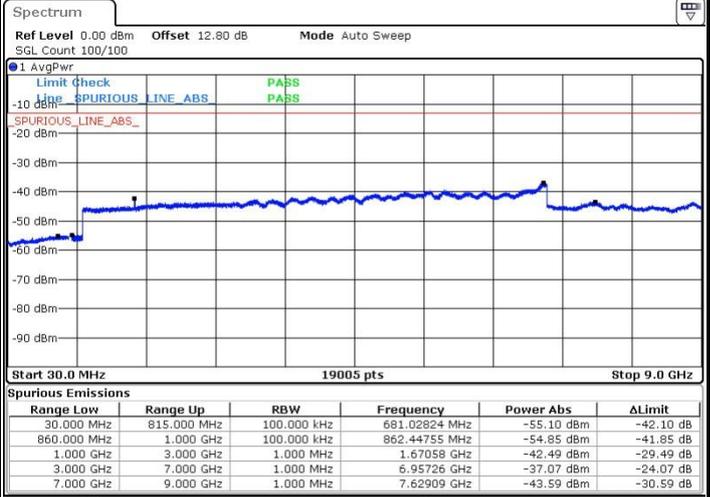
LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 23.AUG.2015 13:44:04



Date: 23.AUG.2015 13:45:02

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 23.AUG.2015 13:54:25



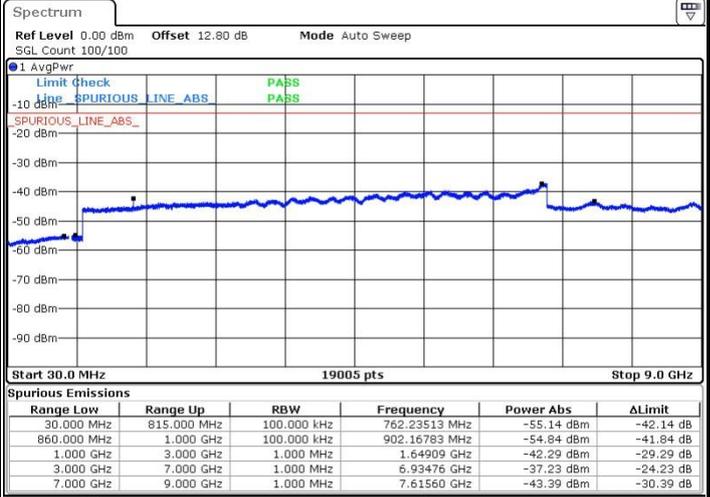
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LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

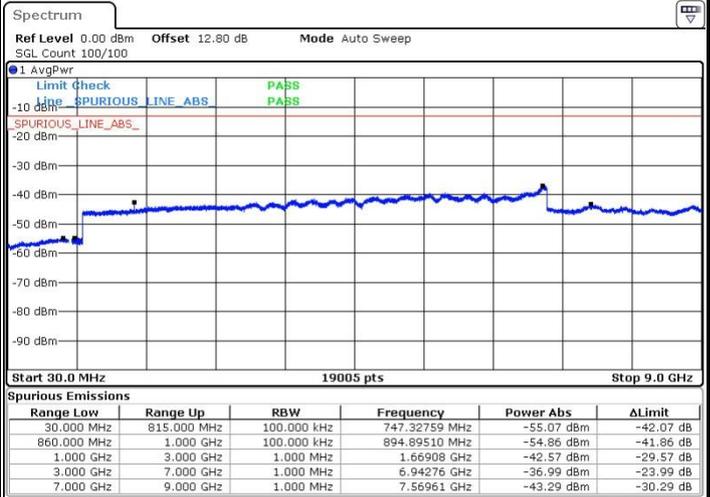


Date: 23.AUG.2015 14:04:46

Date: 23.AUG.2015 14:05:44

Middle Channel / QPSK

Middle Channel / 16QAM



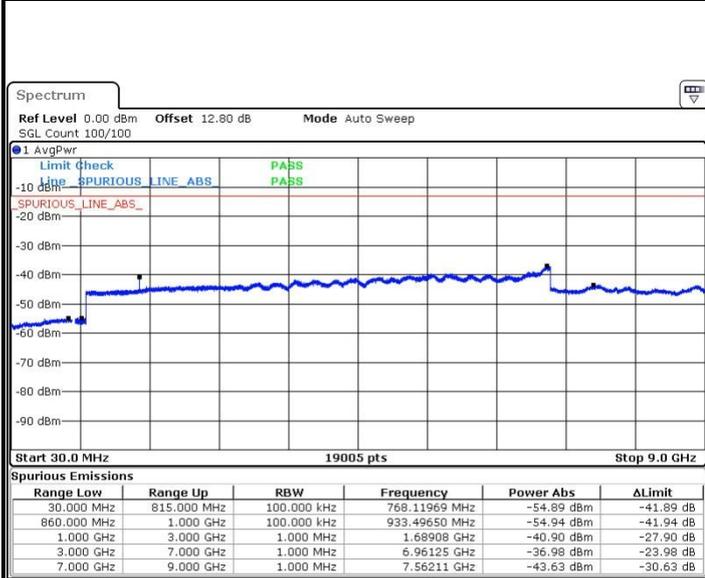
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Date: 23.AUG.2015 14:08:27



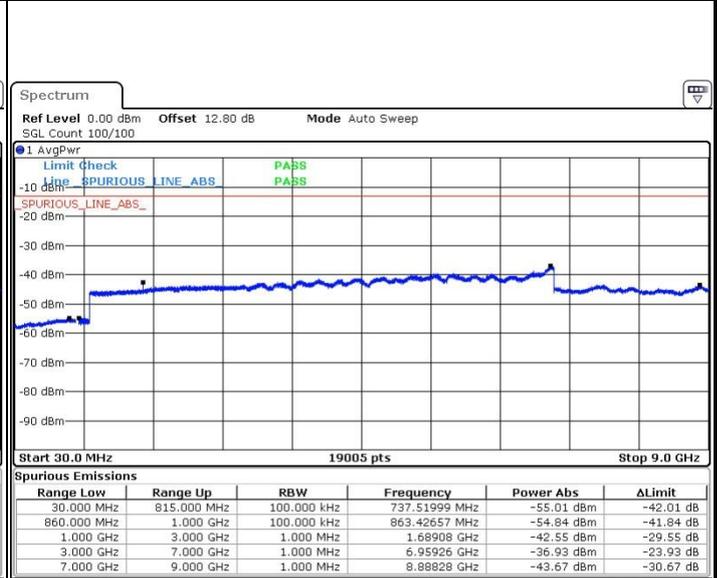
LTE Band 5 / 5MHz

Highest Channel / QPSK



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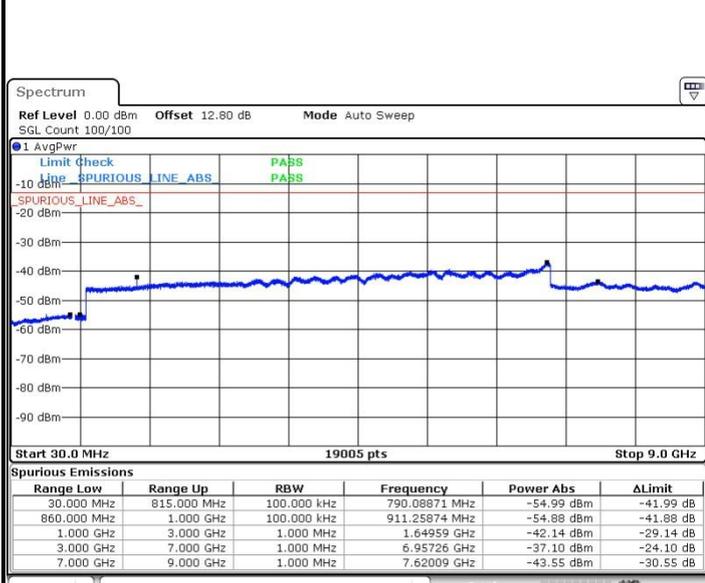
Highest Channel / 16QAM



Date: 23.AUG.2015 14:18:49

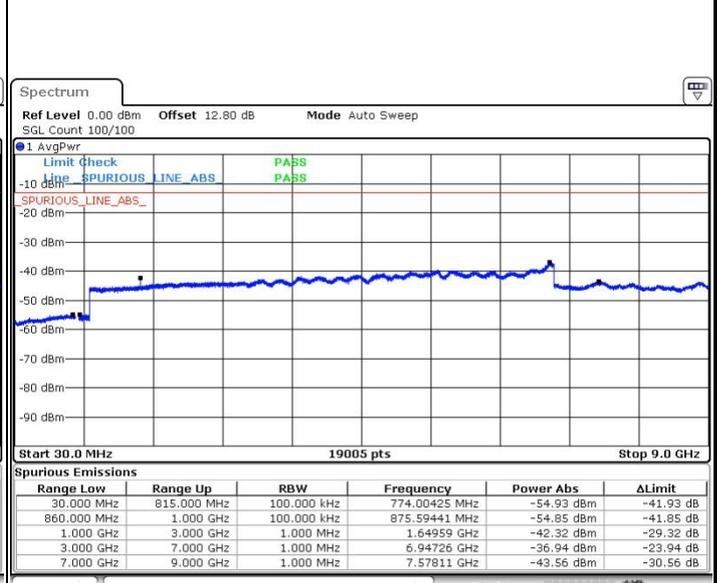
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 23.AUG.2015 14:28:12

Lowest Channel / 16QAM



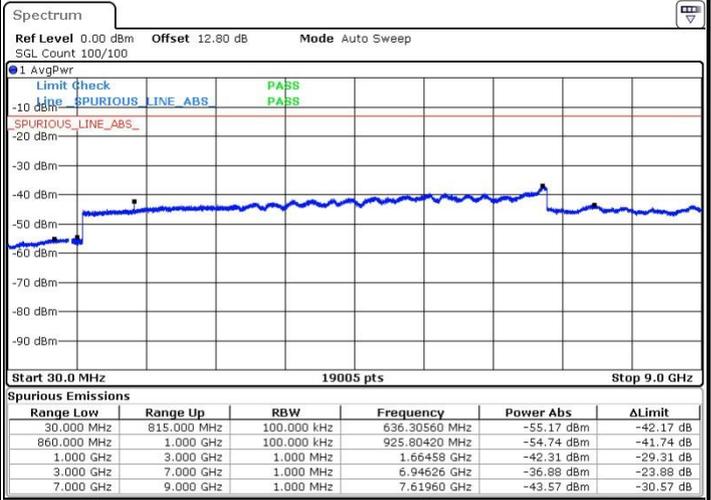
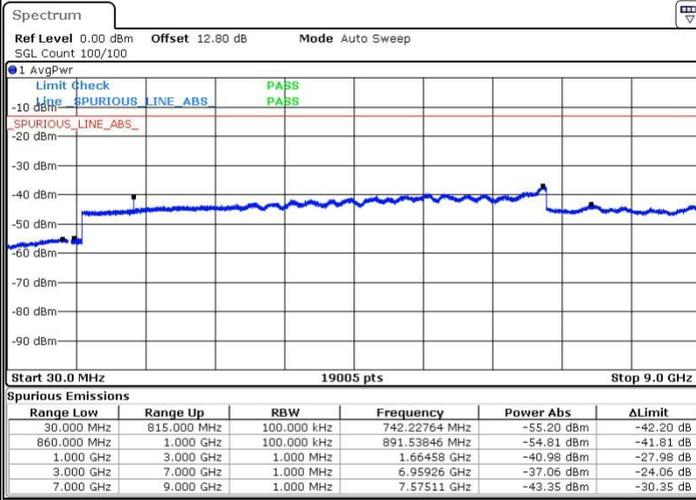
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LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

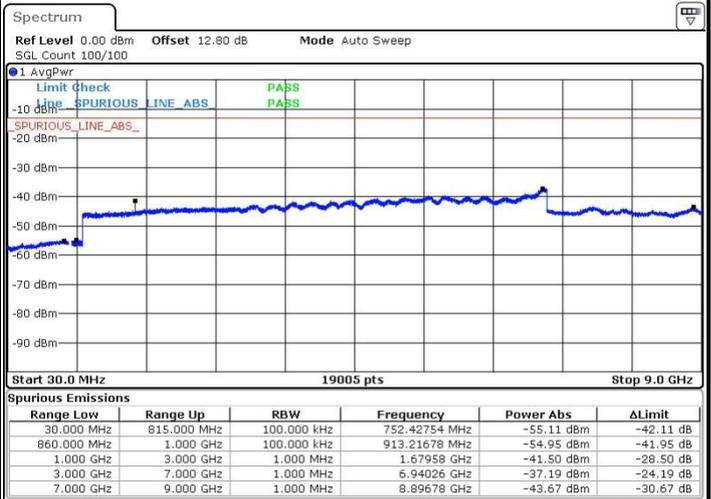


Date: 23.AUG.2015 14:30:55

Date: 23.AUG.2015 14:31:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 23.AUG.2015 14:41:16

Date: 23.AUG.2015 14:42:14



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0085	PASS
40	Normal Voltage	0.0091	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0092	
0	Normal Voltage	0.0096	
-10	Normal Voltage	0.0086	
-20	Normal Voltage	0.0081	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0094	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0092	

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V



LTE Band 7

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.01	4.23	3.91	5.04	PASS
Middle CH	3.07	4.29	3.94	5.13	
Highest CH	3.04	4.17	3.51	5.1	



LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 11.SEP.2015 16:55:39

Lowest Channel / Full RB



Date: 11.SEP.2015 16:56:18

Middle Channel / 1RB



Date: 11.SEP.2015 16:57:51

Middle Channel / Full RB



Date: 11.SEP.2015 16:59:22

Highest Channel / 1RB



Date: 11.SEP.2015 16:59:35

Highest Channel / Full RB

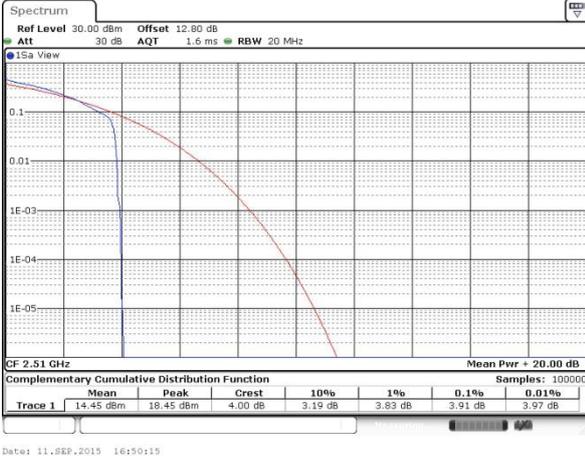


Date: 11.SEP.2015 17:00:18



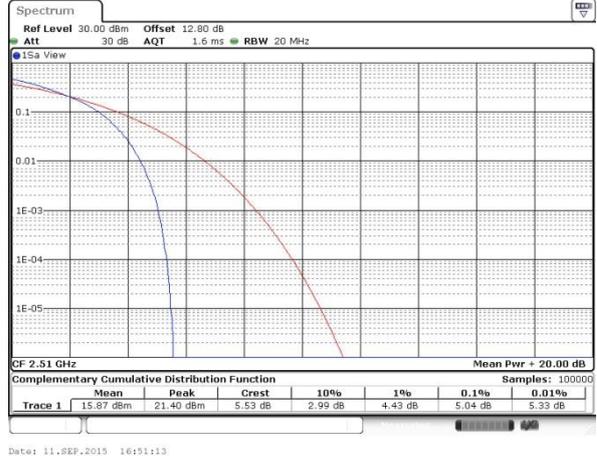
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



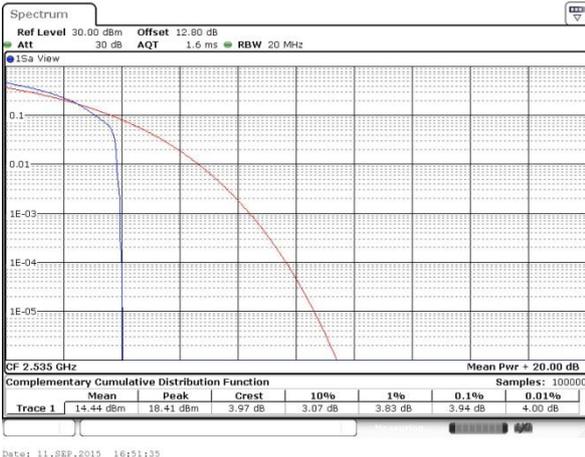
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Lowest Channel / Full RB



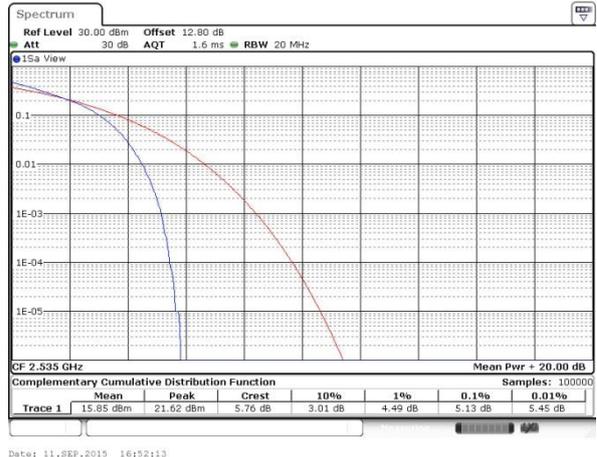
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Middle Channel / 1RB



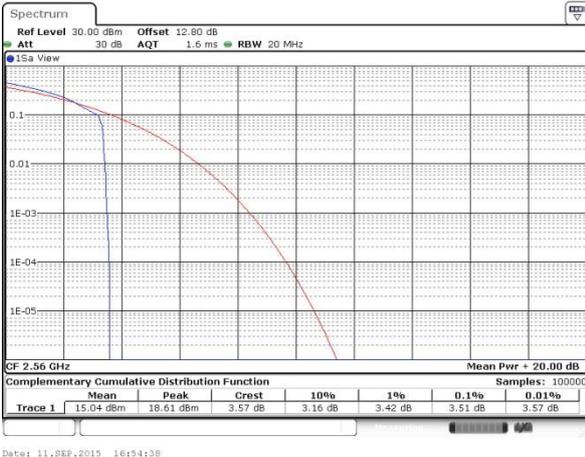
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Middle Channel / Full RB



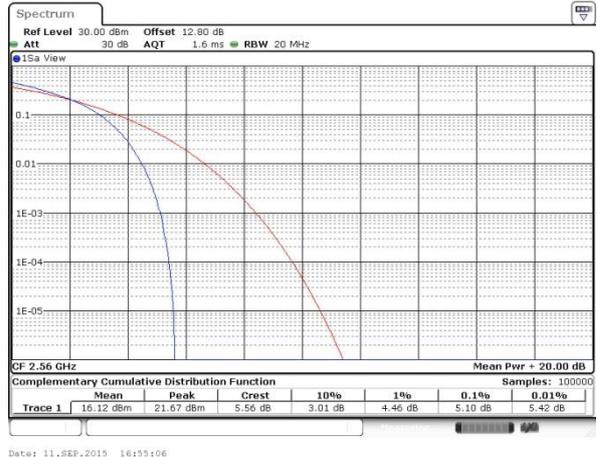
Date: 11.SEP.2015 16:52:13

Highest Channel / 1RB



Date: 11.SEP.2015 16:54:38

Highest Channel / Full RB



Date: 11.SEP.2015 16:55:06



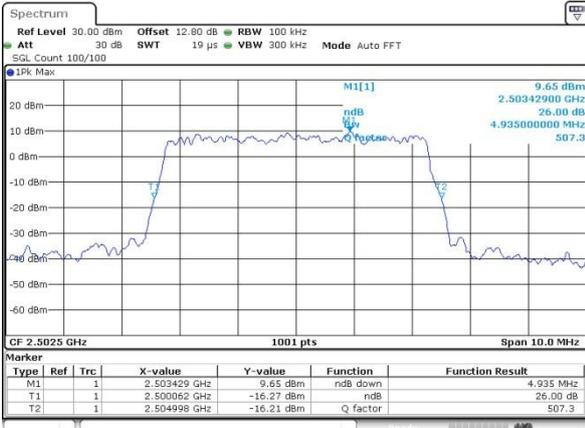
26dB Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.94	4.9	9.79	9.77	14.3	14.27	20.3	20.34
Middle CH	-	-	-	-	4.88	4.9	9.77	9.97	14.33	14.51	20.34	20.3
Highest CH	-	-	-	-	4.88	4.89	9.81	9.87	14.48	14.45	20.46	20.34



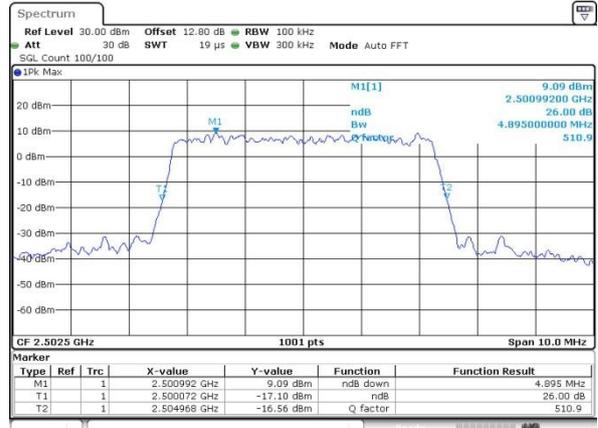
LTE Band 7

Lowest Channel / 5MHz / QPSK



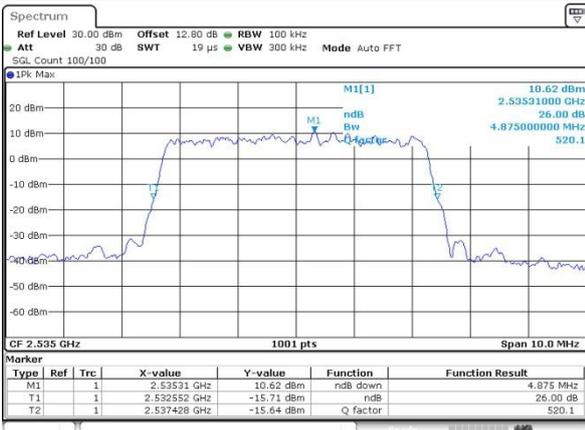
Date: 11_SEP.2015 15:41:34

Lowest Channel / 5MHz / 16QAM



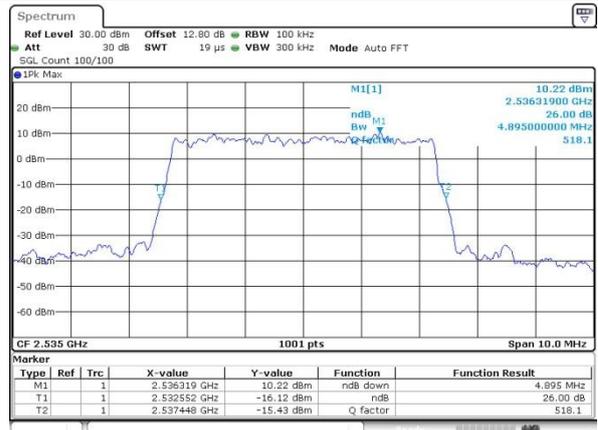
Date: 11_SEP.2015 15:41:46

Middle Channel / 5MHz / QPSK



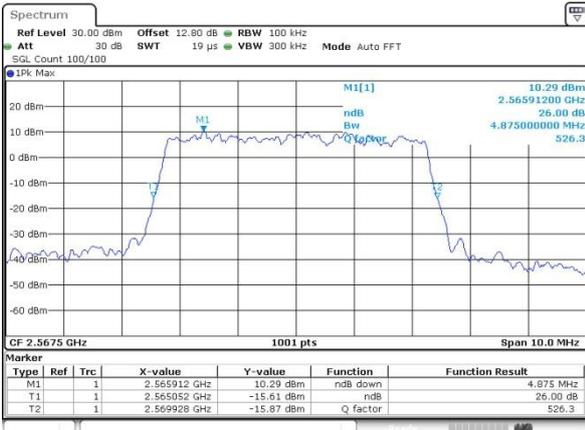
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Middle Channel / 5MHz / 16QAM



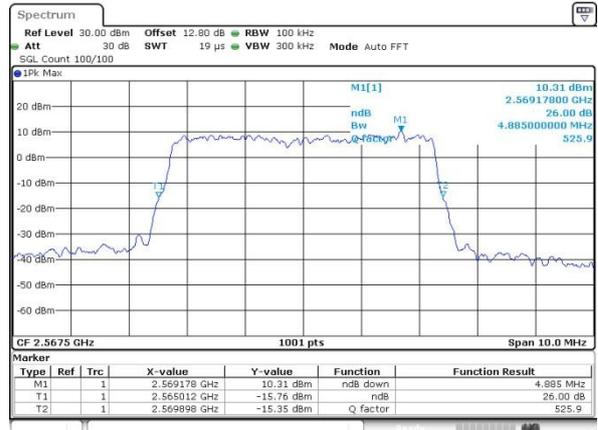
Date: 11_SEP.2015 15:49:04

Highest Channel / 5MHz / QPSK



Date: 11_SEP.2015 15:51:30

Highest Channel / 5MHz / 16QAM

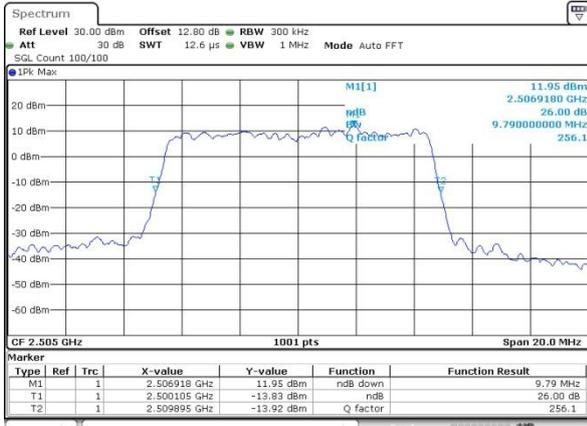


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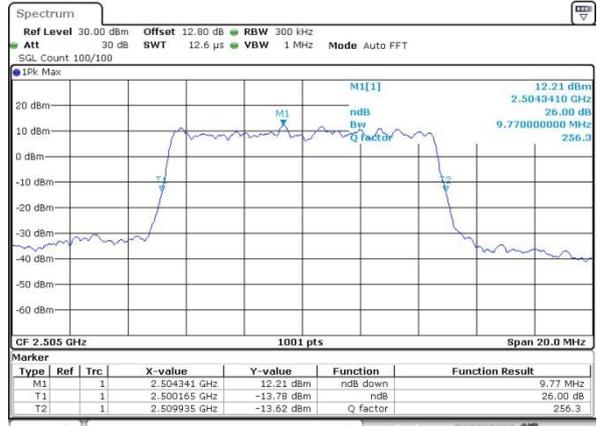
LTE Band 7

Lowest Channel / 10MHz / QPSK



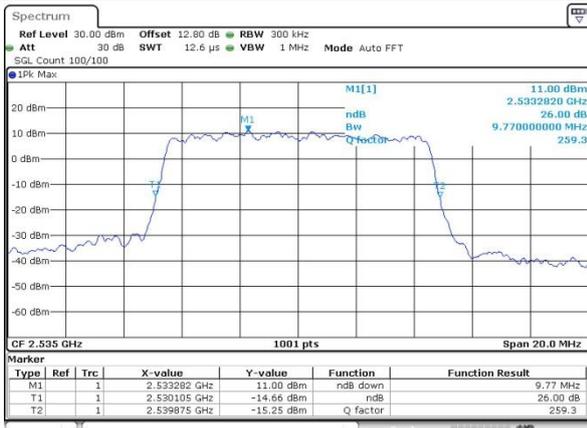
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Lowest Channel / 10MHz / 16QAM



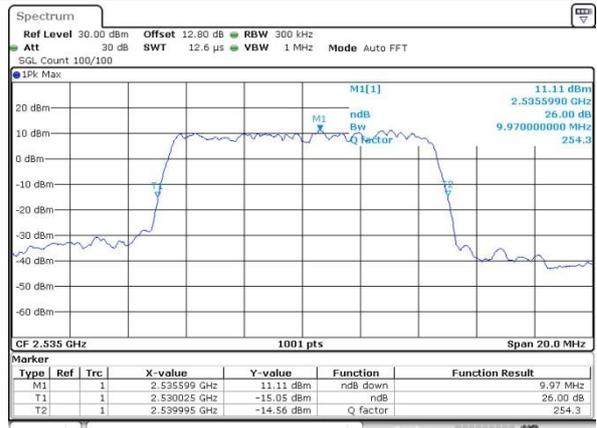
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Middle Channel / 10MHz / QPSK



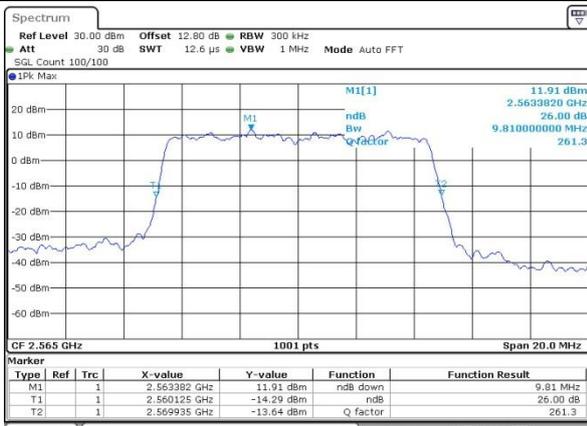
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Middle Channel / 10MHz / 16QAM



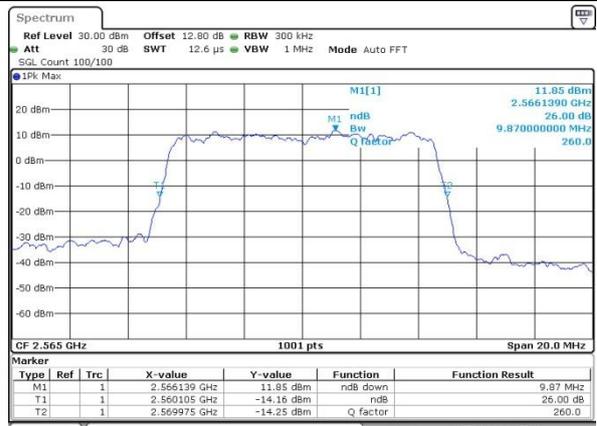
Date: 11.SEP.2015 16:06:17

Highest Channel / 10MHz / QPSK



Date: 11.SEP.2015 16:08:44

Highest Channel / 10MHz / 16QAM

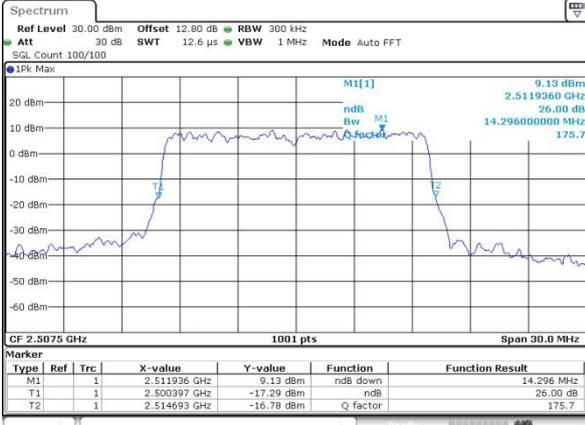


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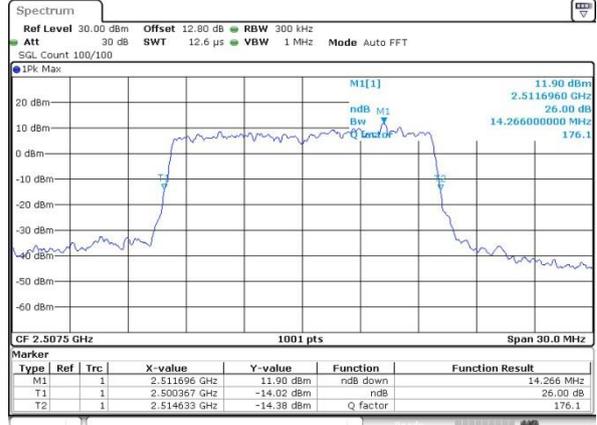
LTE Band 7

Lowest Channel / 15MHz / QPSK



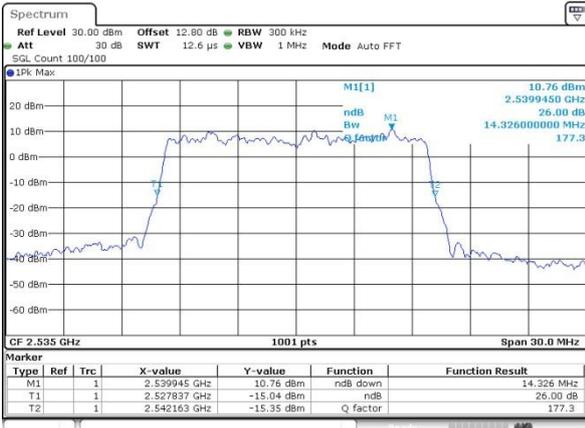
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Lowest Channel / 15MHz / 16QAM



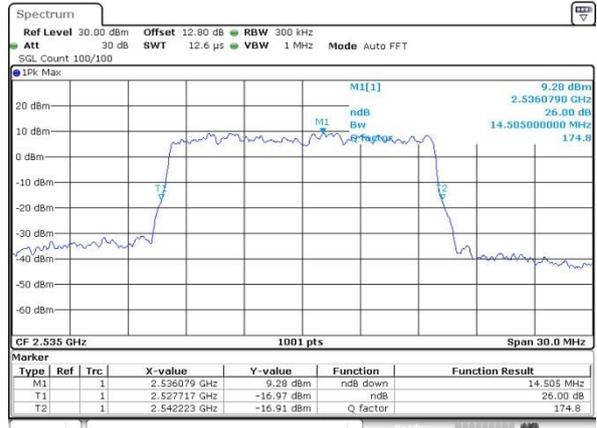
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Middle Channel / 15MHz / QPSK



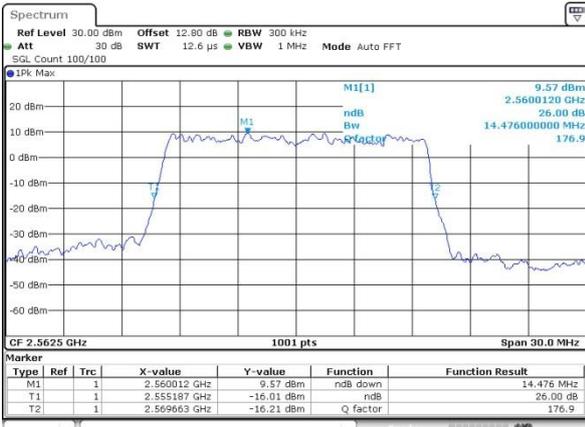
Date: 11.SEP.2015 16:23:19

Middle Channel / 15MHz / 16QAM



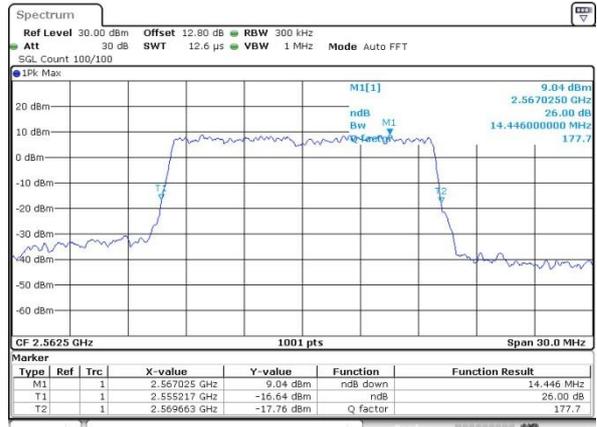
Date: 11.SEP.2015 16:23:31

Highest Channel / 15MHz / QPSK



Date: 11.SEP.2015 16:25:58

Highest Channel / 15MHz / 16QAM

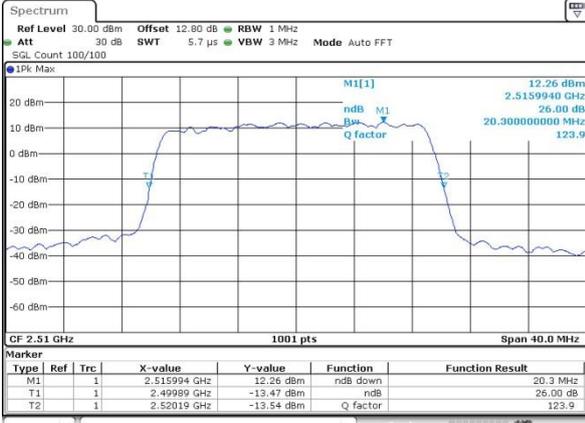


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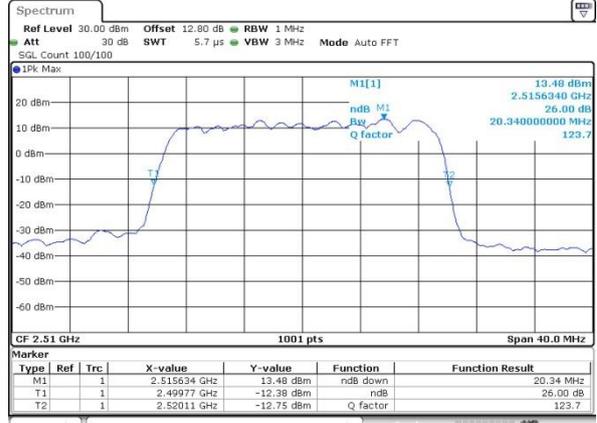
LTE Band 7

Lowest Channel / 20MHz / QPSK



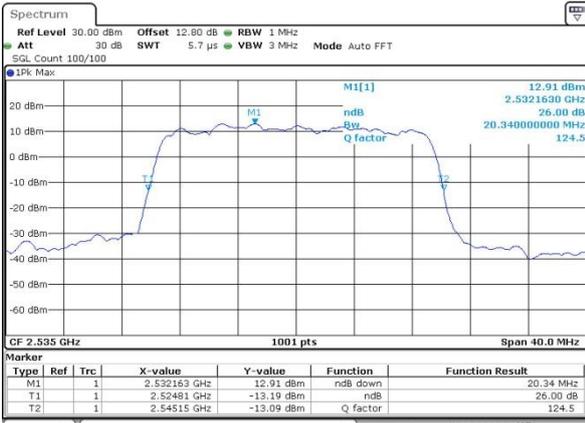
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Lowest Channel / 20MHz / 16QAM



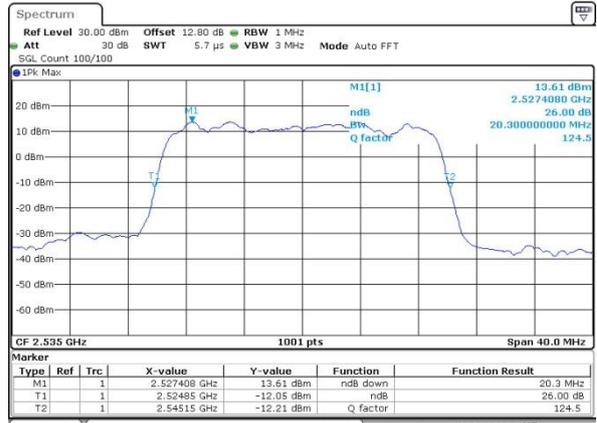
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Middle Channel / 20MHz / QPSK



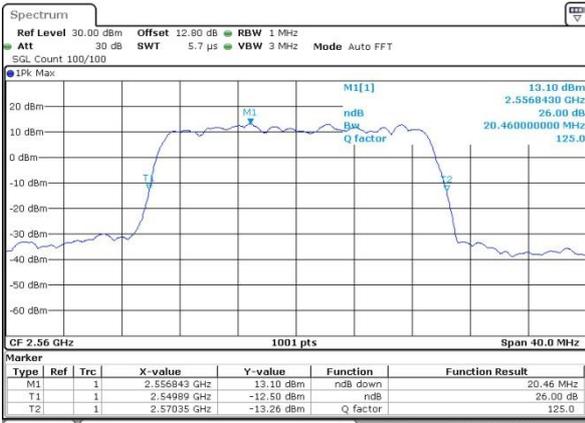
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Middle Channel / 20MHz / 16QAM



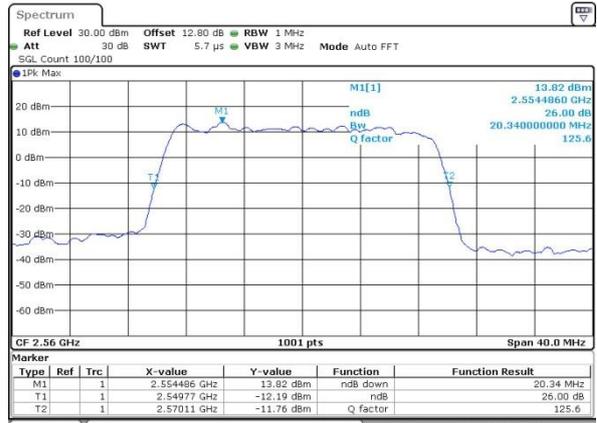
Date: 11.SEP.2015 16:40:45

Highest Channel / 20MHz / QPSK



Date: 11.SEP.2015 16:43:11

Highest Channel / 20MHz / 16QAM



Date: 11.SEP.2015 16:43:23



Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.48	4.49	9.03	9.03	13.43	13.43	18.42	18.42
Middle CH	-	-	-	-	4.48	4.51	9.07	9.03	13.43	13.43	18.38	18.38
Highest CH	-	-	-	-	4.49	4.5	9.01	9.03	13.49	13.46	18.22	18.38