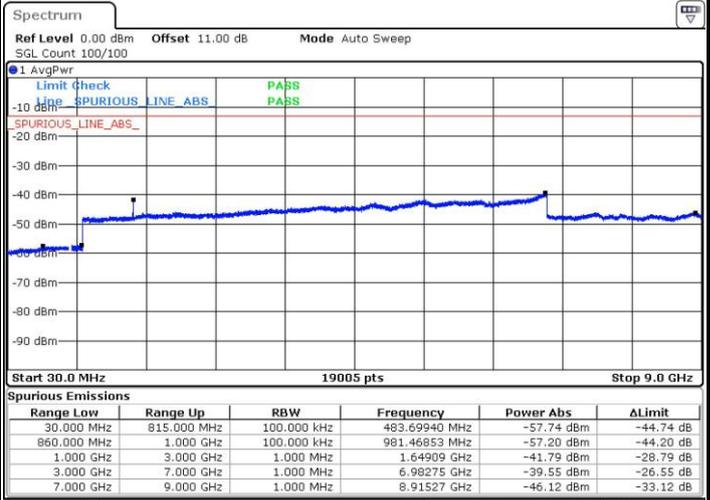
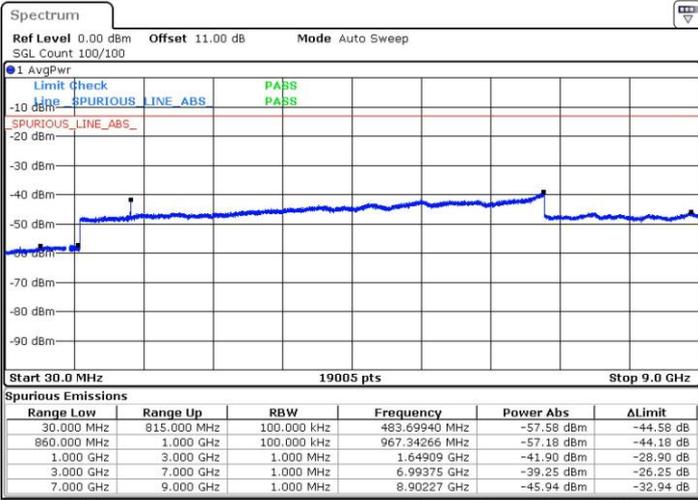




LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

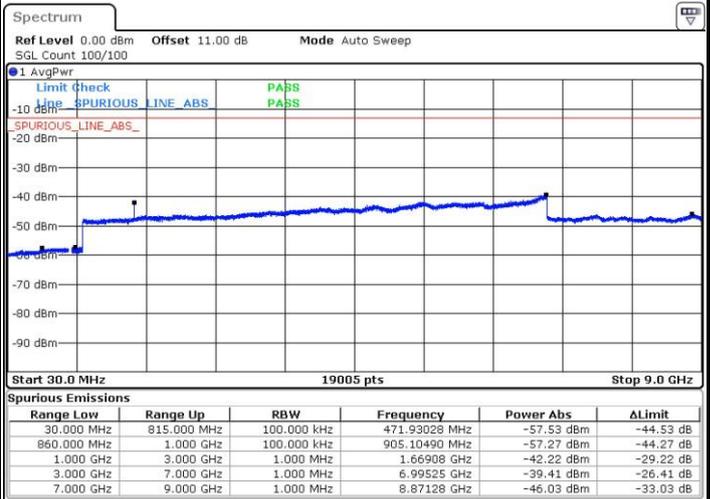
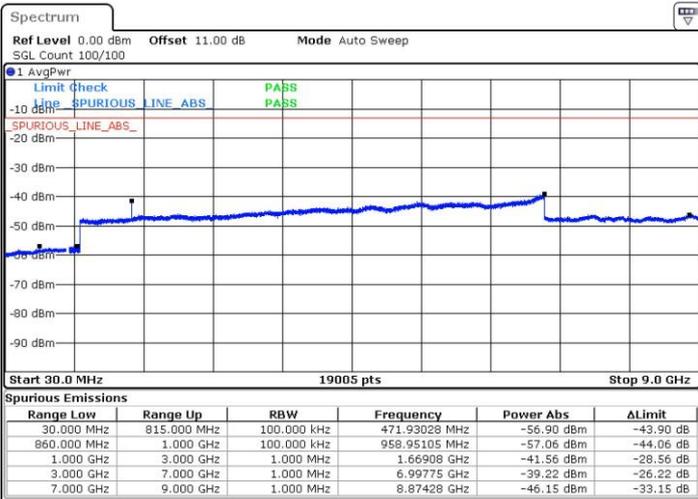


Date: 6.DEC.2016 20:10:46

Date: 6.DEC.2016 20:11:44

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 6.DEC.2016 20:13:29

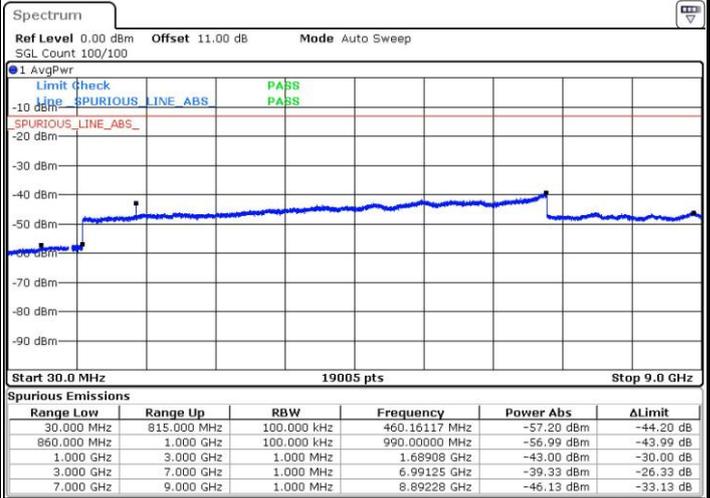
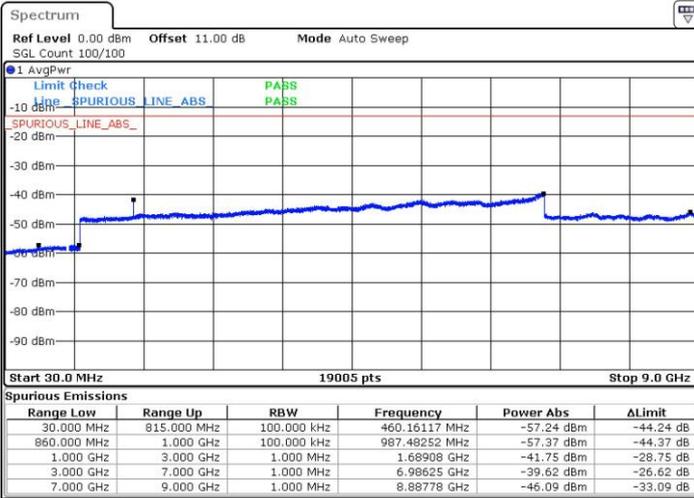
Date: 6.DEC.2016 20:14:27



LTE Band 5 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



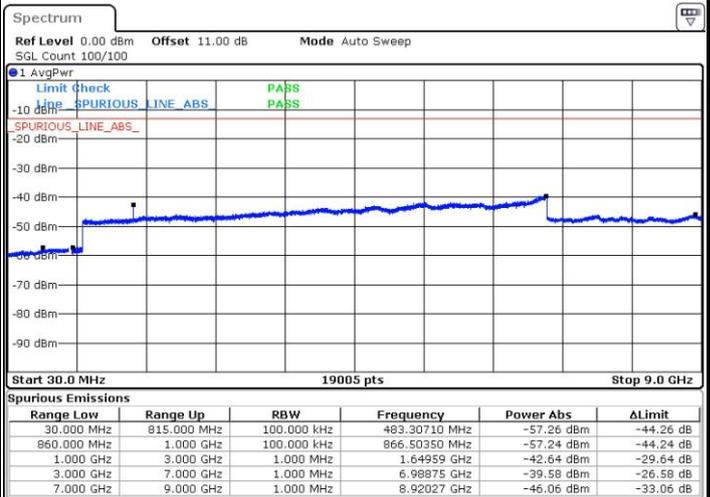
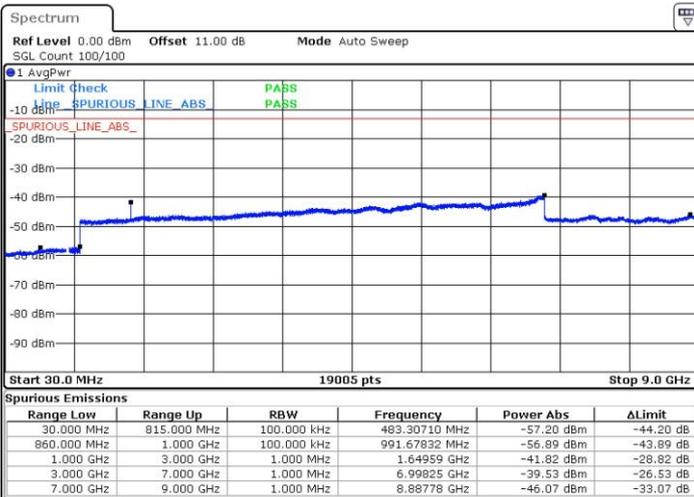
Date: 6.DEC.2016 20:22:50

Date: 6.DEC.2016 20:23:49

LTE Band 5 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 6.DEC.2016 20:32:12

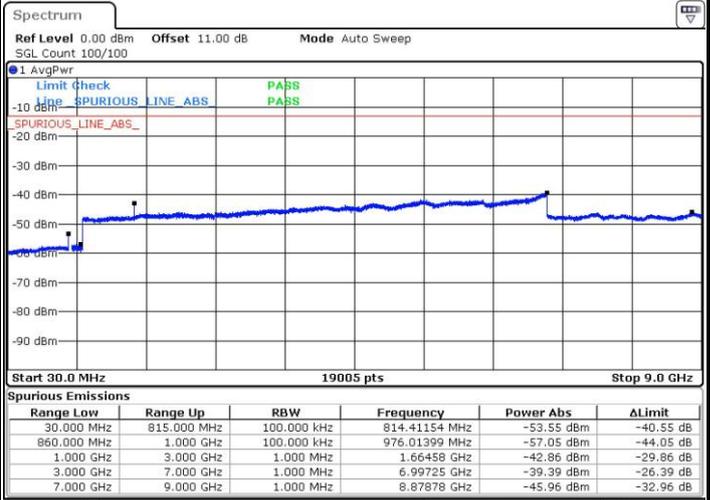
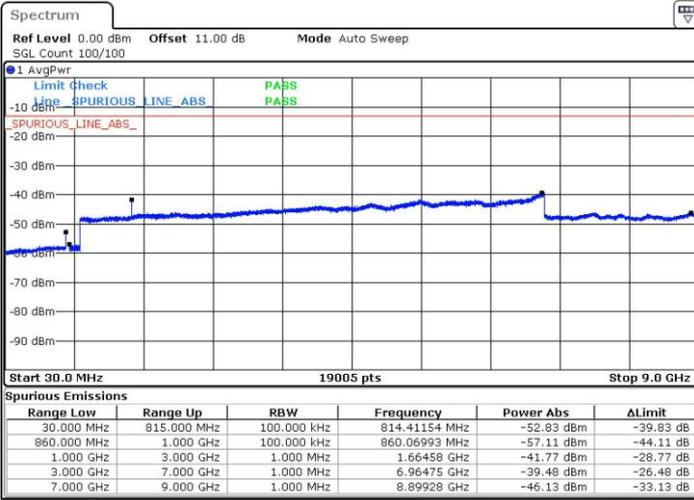
Date: 6.DEC.2016 20:33:10



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

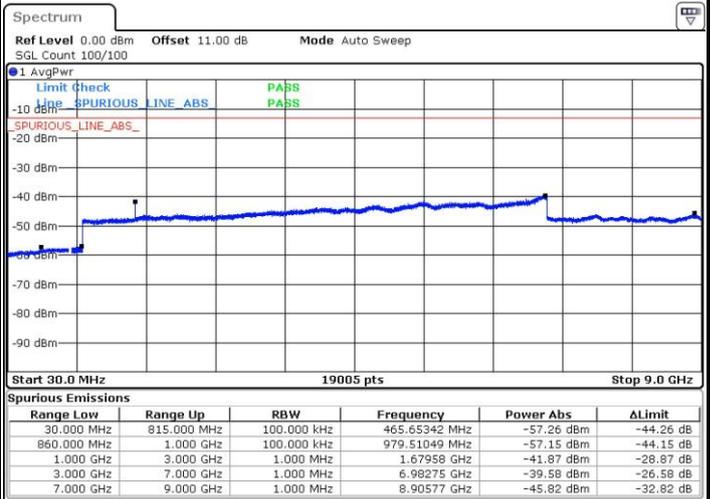
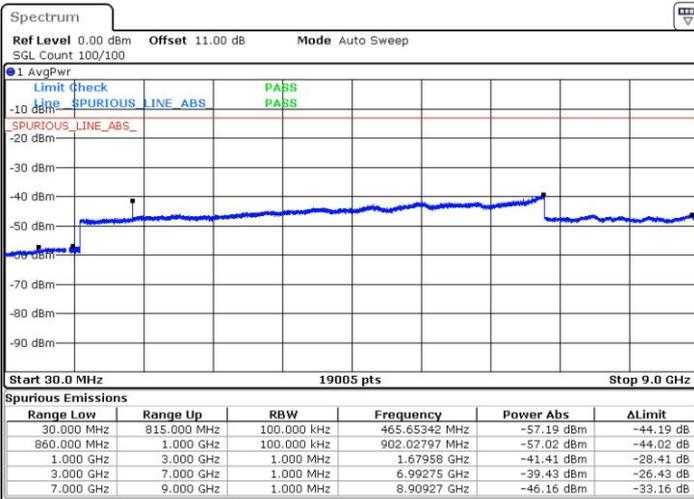


Date: 6.DEC.2016 20:34:55

Date: 6.DEC.2016 20:35:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6.DEC.2016 20:44:16

Date: 6.DEC.2016 20:45:15



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	0.0010	PASS
40	Normal Voltage	0.0051	
30	Normal Voltage	0.0093	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0078	
20	Maximum Voltage	0.0030	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

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 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	4.81	5.16	5.91	6	PASS
Middle CH	5.1	5.33	5.33	6.06	
Highest CH	5.22	5.48	6.2	6.2	



LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



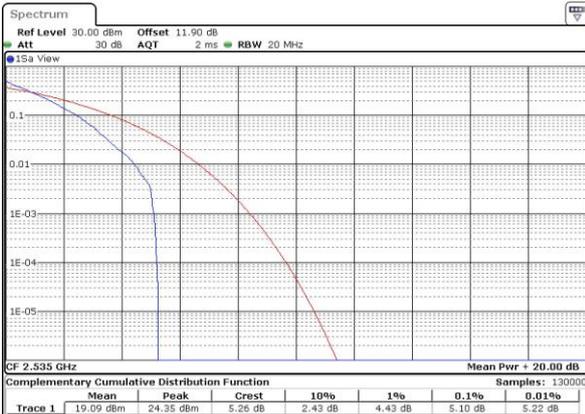
Date: 6,DEC,2016 16:09:55

Lowest Channel / Full RB



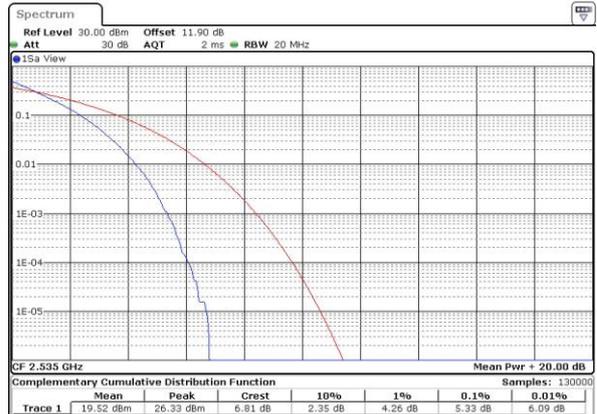
Date: 6,DEC,2016 16:10:11

Middle Channel / 1RB



Date: 6,DEC,2016 16:10:47

Middle Channel / Full RB



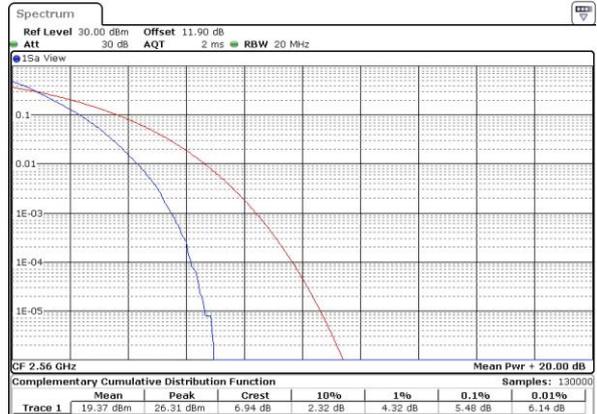
Date: 6,DEC,2016 16:11:23

Highest Channel / 1RB



Date: 6,DEC,2016 16:11:36

Highest Channel / Full RB

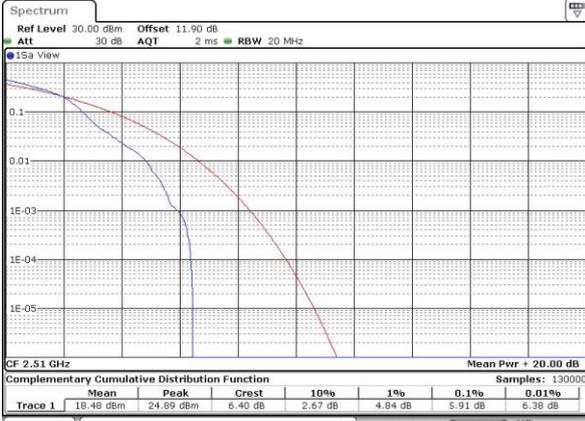


Date: 6,DEC,2016 16:13:57



LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



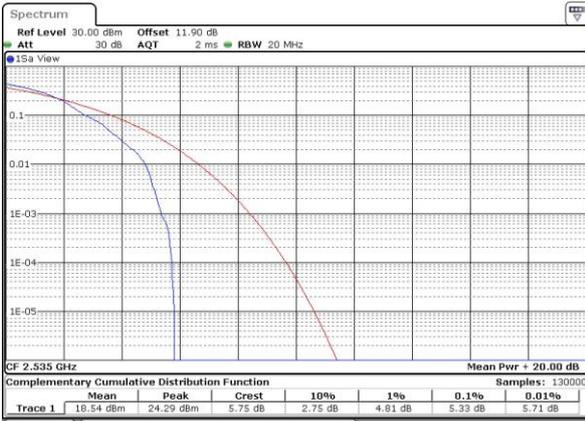
Date: 6,DEC,2016 16:10:05

Lowest Channel / Full RB



Date: 6,DEC,2016 16:10:25

Middle Channel / 1RB



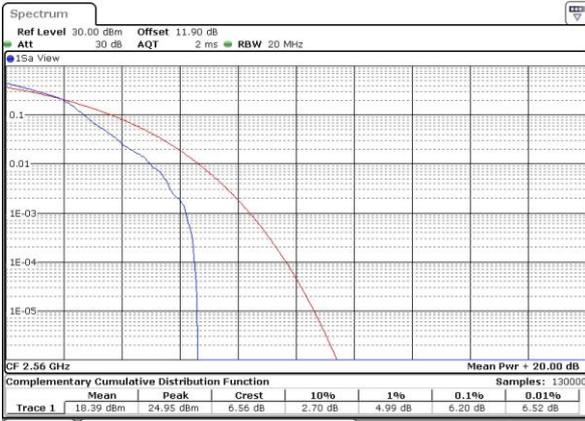
Date: 6,DEC,2016 16:10:41

Middle Channel / Full RB



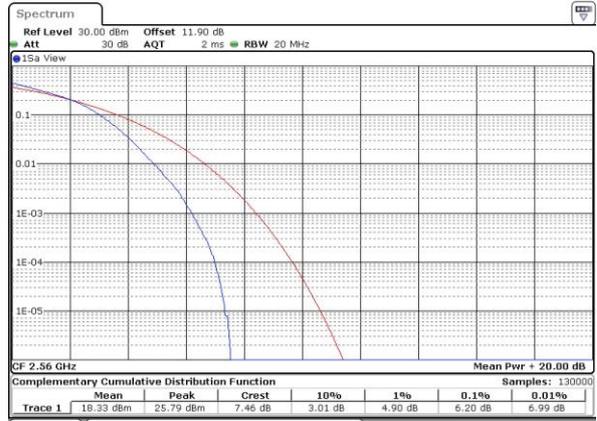
Date: 6,DEC,2016 16:10:24

Highest Channel / 1RB



Date: 6,DEC,2016 16:10:26

Highest Channel / Full RB



Date: 6,DEC,2016 16:10:41



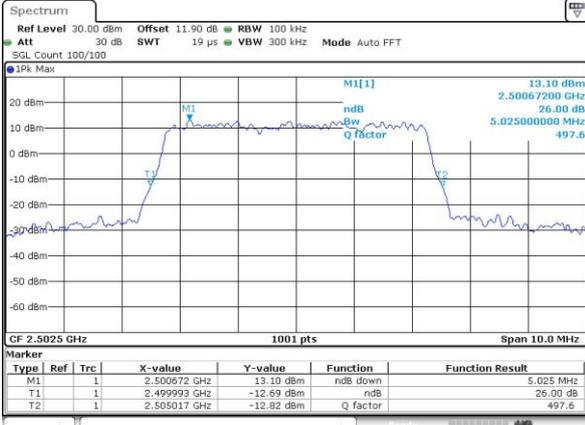
26dB Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	5.025	4.925	9.91	9.85	14.505	14.296	20.34	20.22
Middle CH	-	-	-	-	4.915	4.955	9.81	9.95	14.625	14.206	20.26	20.42
Highest CH	-	-	-	-	4.965	4.965	9.87	9.87	14.775	14.865	20.22	20.14



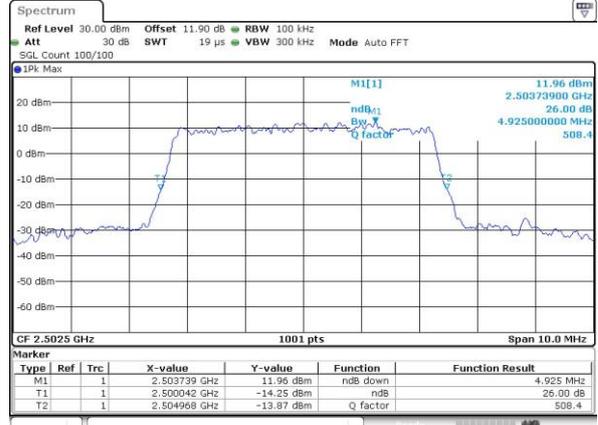
LTE Band 7

Lowest Channel / 5MHz / QPSK



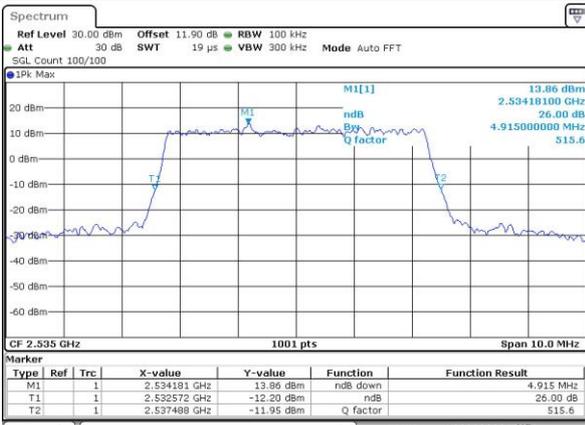
Date: 6.DEC.2016 13:56:31

Lowest Channel / 5MHz / 16QAM



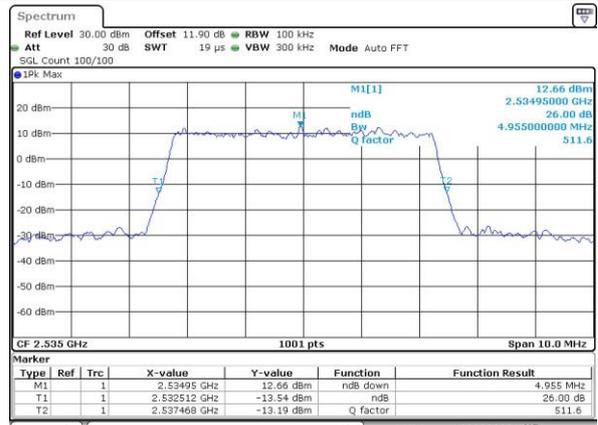
Date: 6.DEC.2016 15:26:45

Middle Channel / 5MHz / QPSK



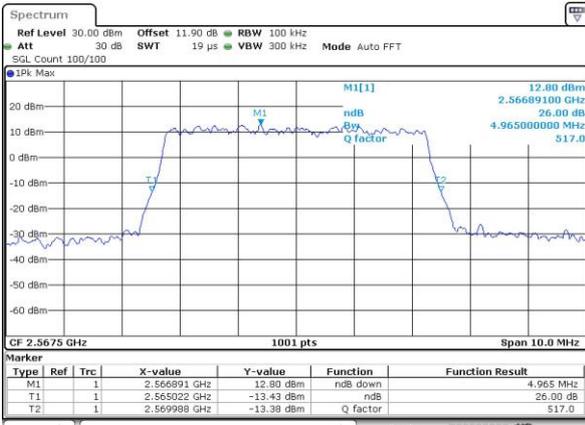
Date: 6.DEC.2016 14:03:53

Middle Channel / 5MHz / 16QAM



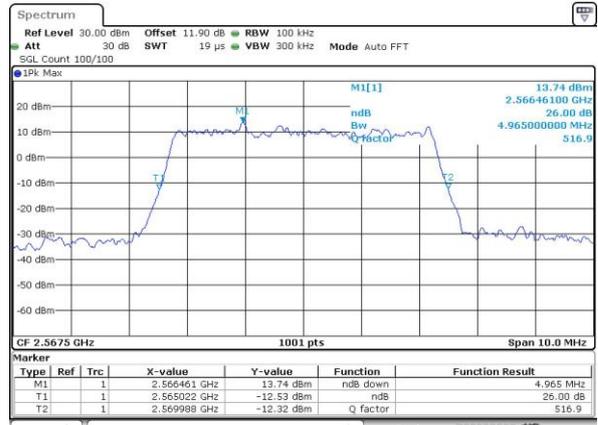
Date: 6.DEC.2016 14:04:05

Highest Channel / 5MHz / QPSK



Date: 6.DEC.2016 14:06:36

Highest Channel / 5MHz / 16QAM

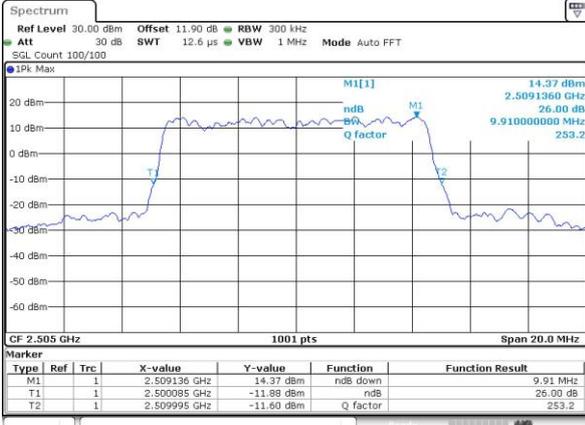


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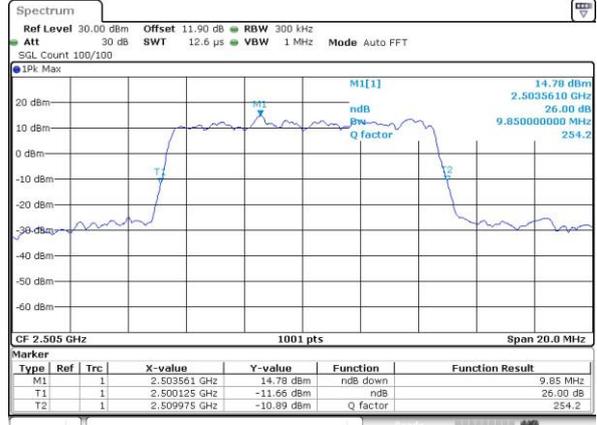
LTE Band 7

Lowest Channel / 10MHz / QPSK



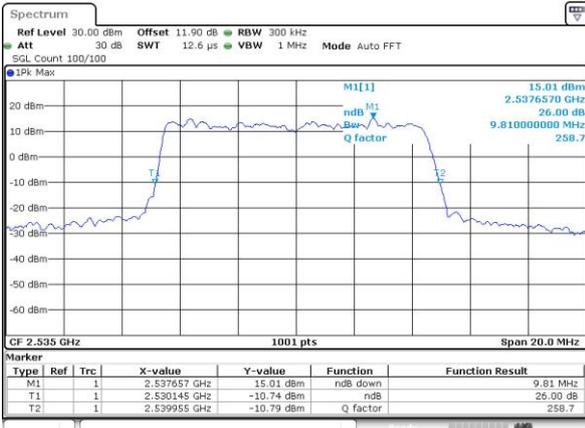
Date: 6,DEC,2016 14:13:59

Lowest Channel / 10MHz / 16QAM



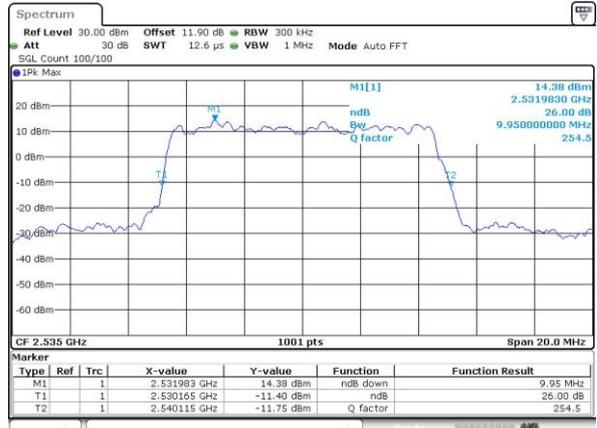
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Middle Channel / 10MHz / QPSK



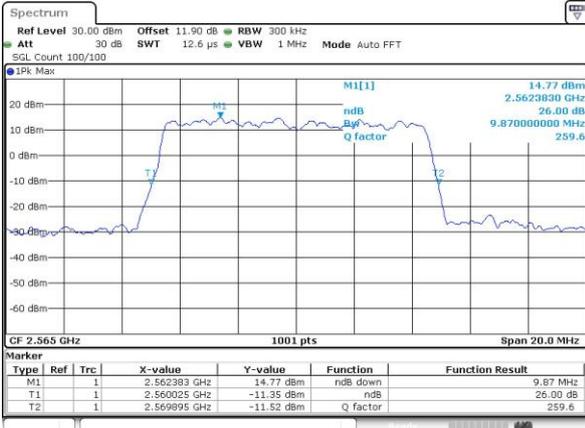
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Middle Channel / 10MHz / 16QAM



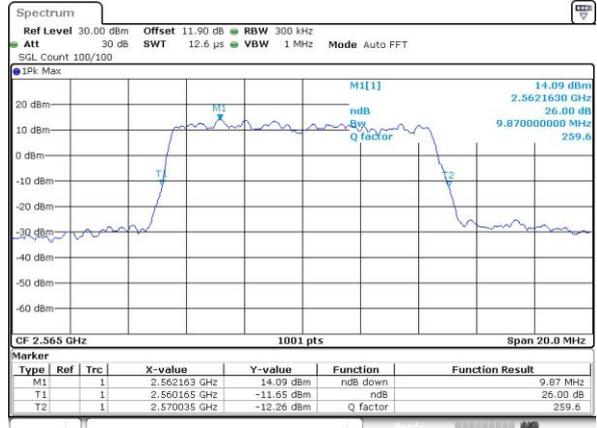
Date: 6,DEC,2016 14:21:33

Highest Channel / 10MHz / QPSK



Date: 6,DEC,2016 14:24:04

Highest Channel / 10MHz / 16QAM

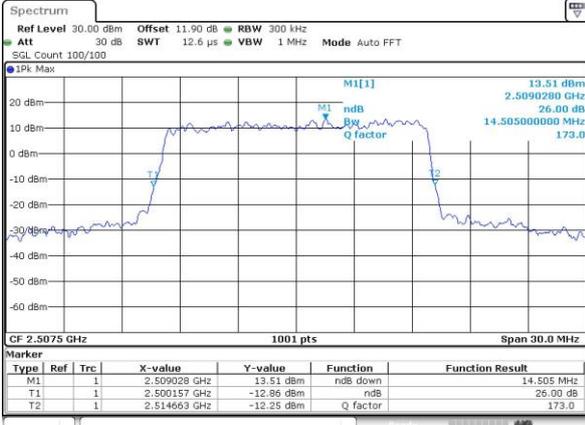


Date: 6,DEC,2016 14:24:15



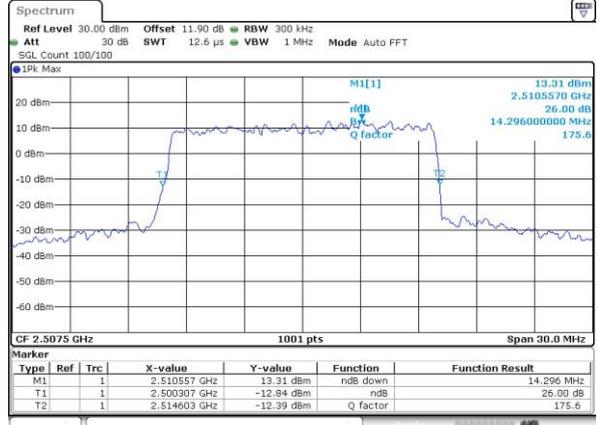
LTE Band 7

Lowest Channel / 15MHz / QPSK



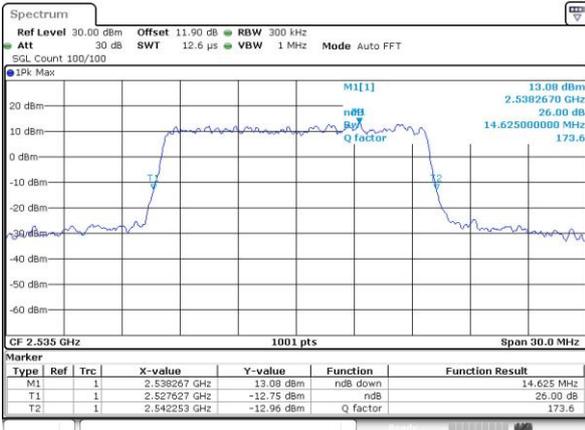
Date: 6,DEC,2016 14:31:26

Lowest Channel / 15MHz / 16QAM



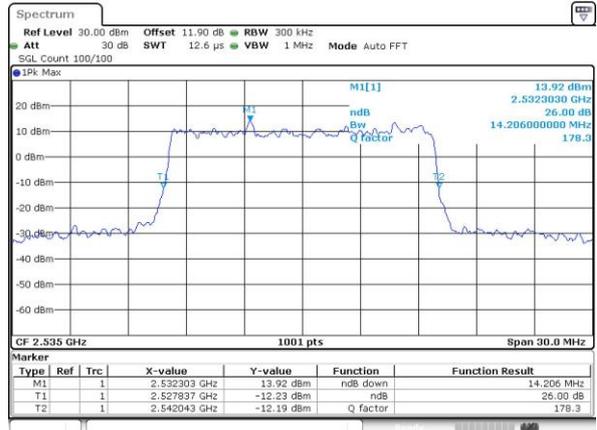
Date: 6,DEC,2016 14:31:38

Middle Channel / 15MHz / QPSK



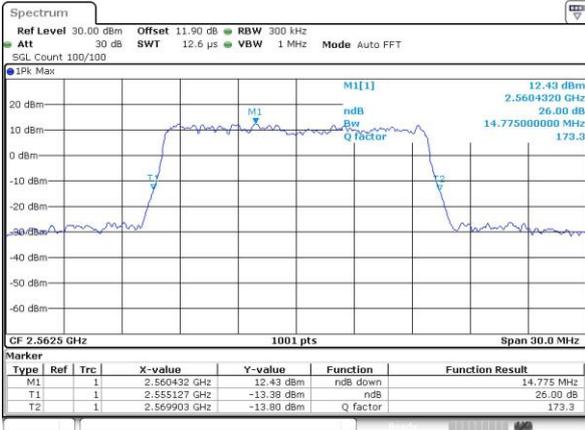
Date: 6,DEC,2016 14:38:48

Middle Channel / 15MHz / 16QAM



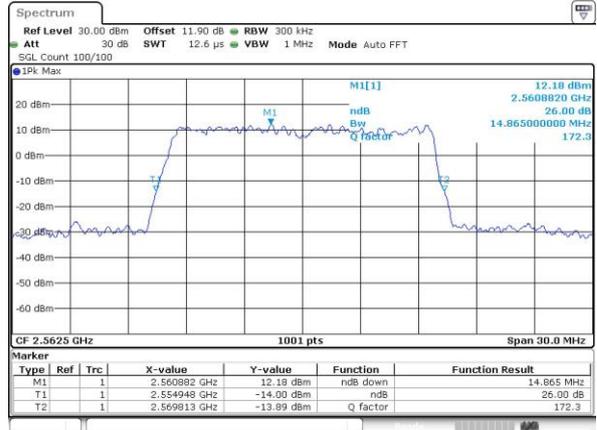
Date: 6,DEC,2016 14:39:00

Highest Channel / 15MHz / QPSK



Date: 6,DEC,2016 15:32:35

Highest Channel / 15MHz / 16QAM

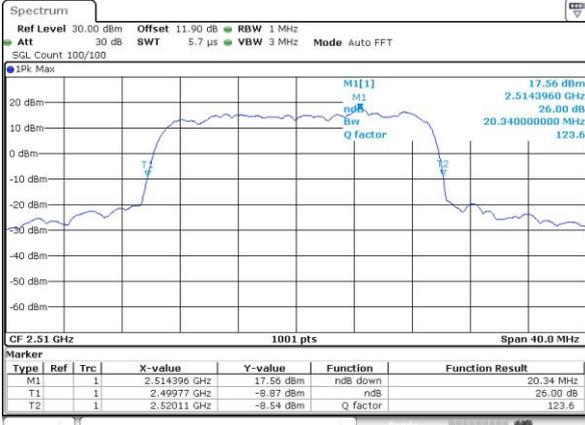


Date: 6,DEC,2016 15:32:47



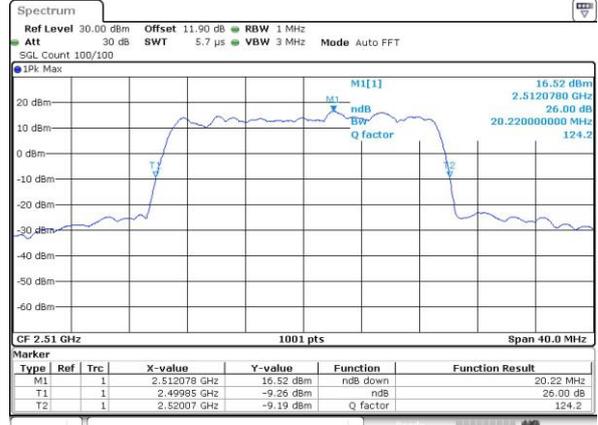
LTE Band 7

Lowest Channel / 20MHz / QPSK



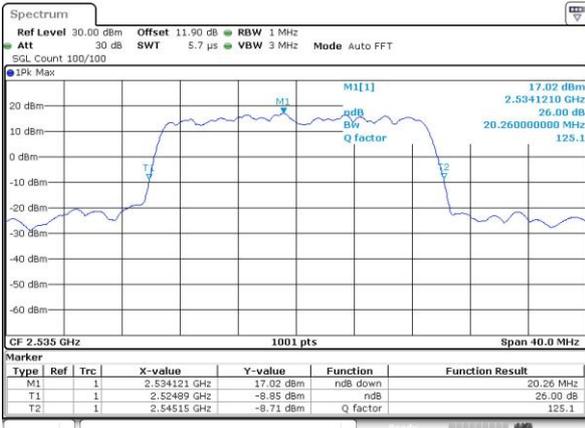
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Lowest Channel / 20MHz / 16QAM



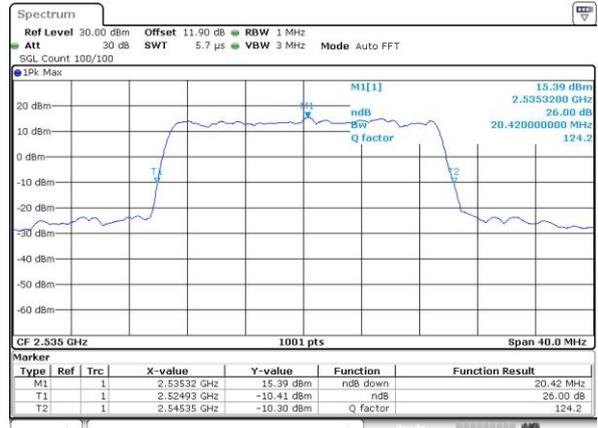
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Middle Channel / 20MHz / QPSK



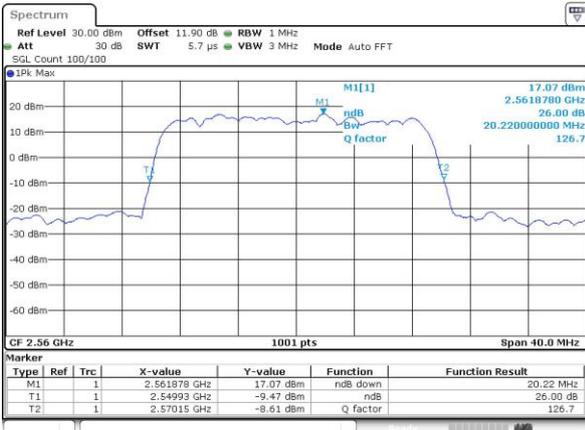
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Middle Channel / 20MHz / 16QAM



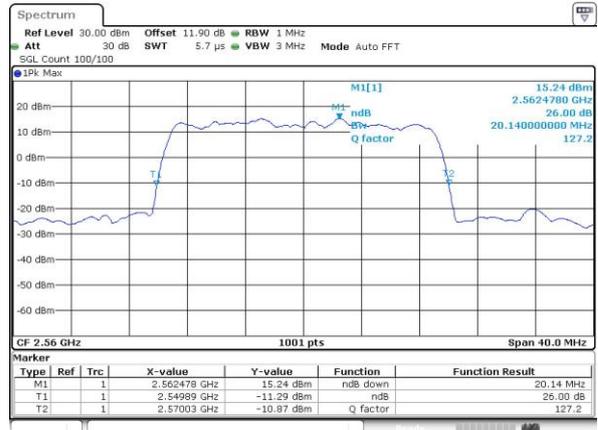
Date: 6,DEC,2016 15:47:32

Highest Channel / 20MHz / QPSK



Date: 6,DEC,2016 15:50:03

Highest Channel / 20MHz / 16QAM



Date: 6,DEC,2016 15:50:14



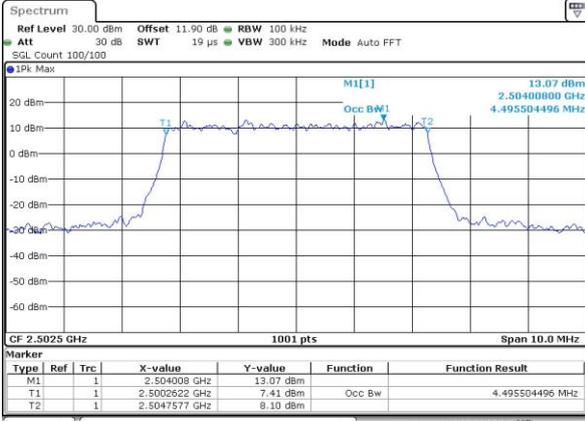
Occupied Bandwidth

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
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.5	4.51	9.03	9.07	13.49	13.49	18.42	18.34
Middle CH	-	-	-	-	4.51	4.53	9.09	9.01	13.43	13.46	18.42	18.5
Highest CH	-	-	-	-	4.5	4.51	9.05	9.07	13.49	13.4	18.3	18.38



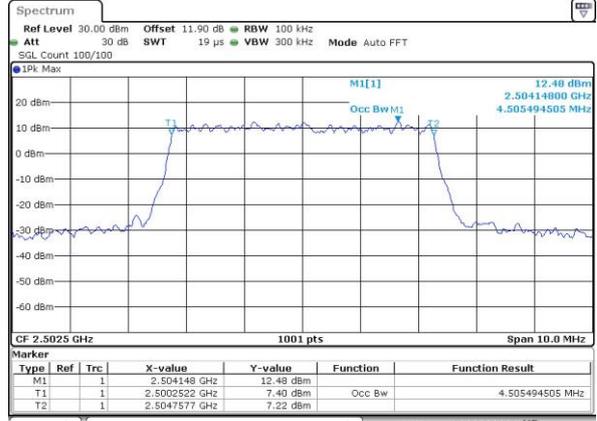
LTE Band 7

Lowest Channel / 5MHz / QPSK



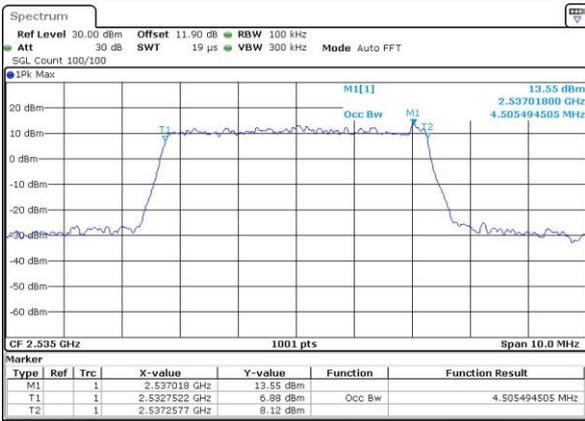
Date: 6,DEC,2016 13:56:08

Lowest Channel / 5MHz / 16QAM



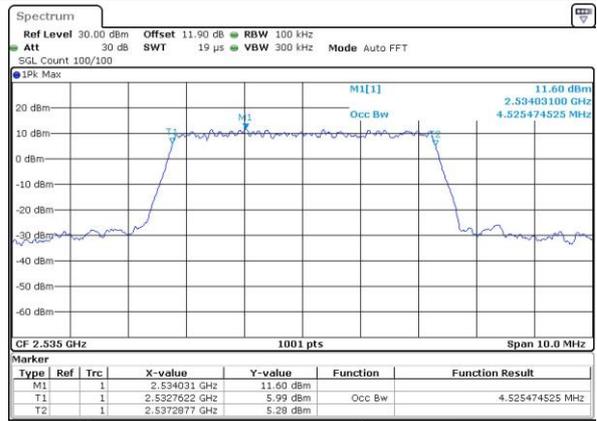
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Middle Channel / 5MHz / QPSK



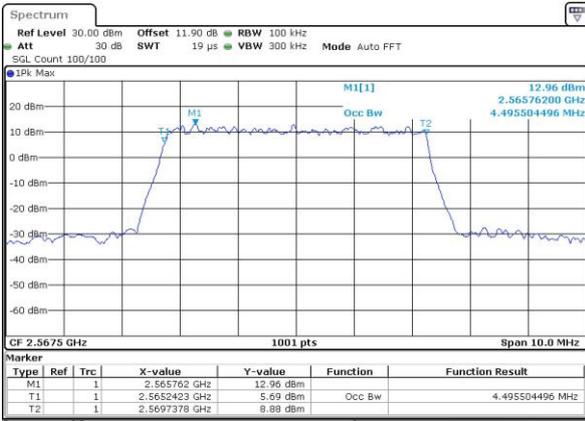
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Middle Channel / 5MHz / 16QAM



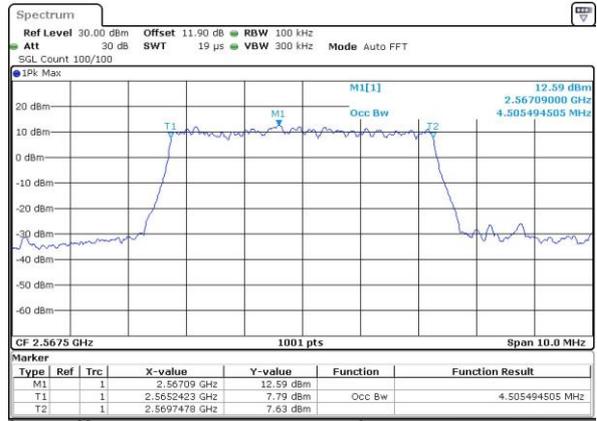
Date: 6,DEC,2016 14:03:41

Highest Channel / 5MHz / QPSK



Date: 6,DEC,2016 14:06:13

Highest Channel / 5MHz / 16QAM

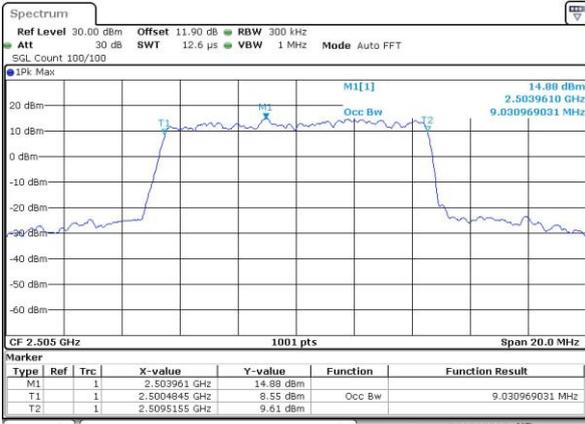


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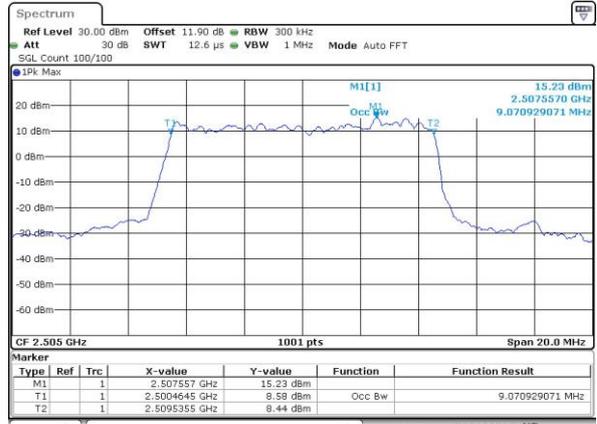
LTE Band 7

Lowest Channel / 10MHz / QPSK



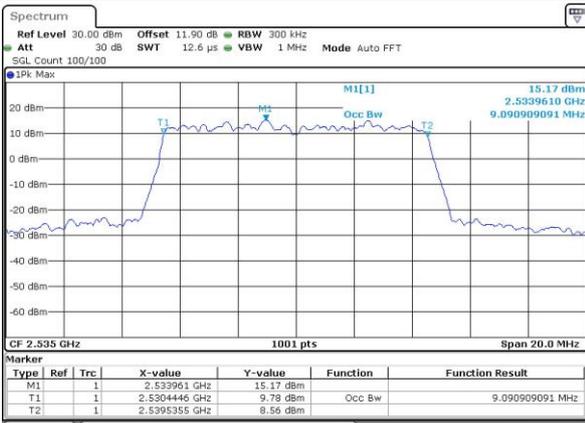
Date: 6,DEC,2016 14:13:35

Lowest Channel / 10MHz / 16QAM



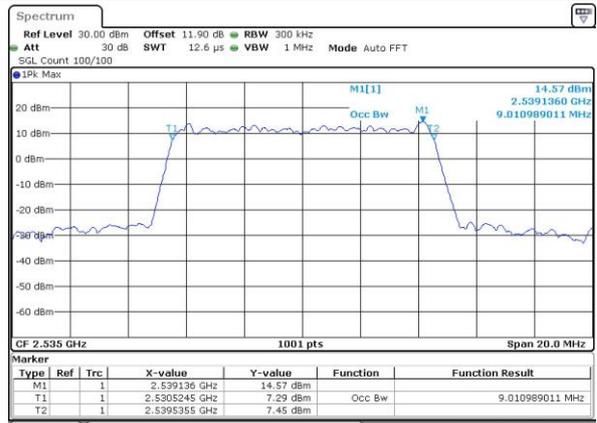
Date: 6,DEC,2016 14:13:47

Middle Channel / 10MHz / QPSK



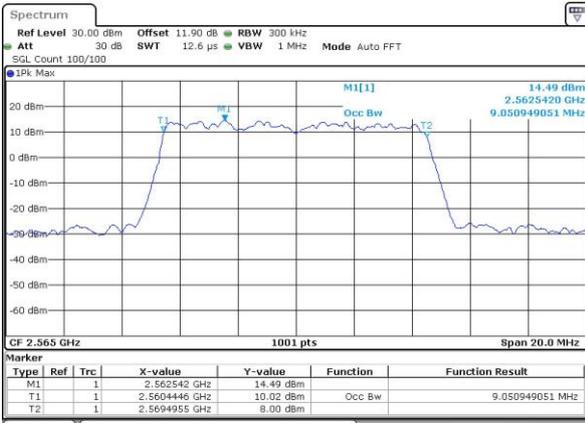
Date: 6,DEC,2016 14:20:57

Middle Channel / 10MHz / 16QAM



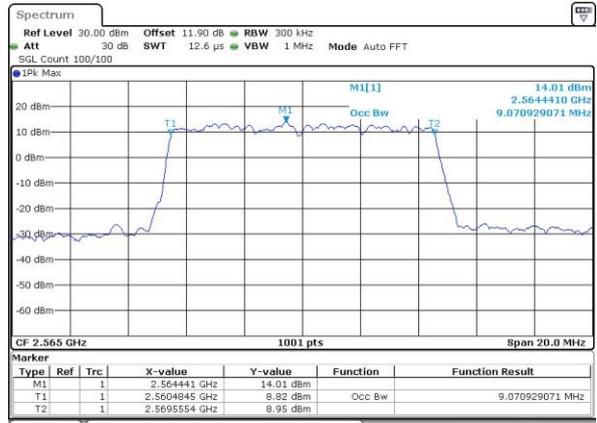
Date: 6,DEC,2016 14:21:09

Highest Channel / 10MHz / QPSK



Date: 6,DEC,2016 14:23:40

Highest Channel / 10MHz / 16QAM

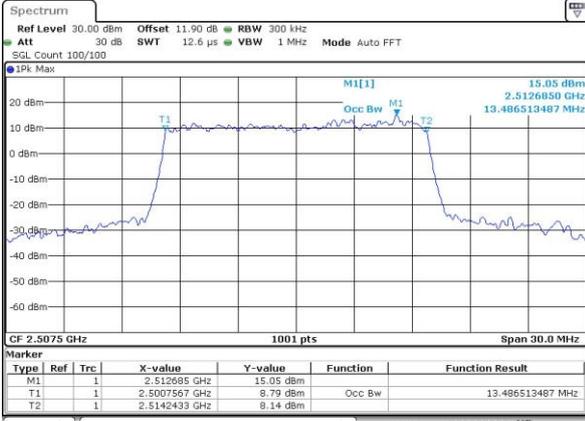


Date: 6,DEC,2016 14:23:52



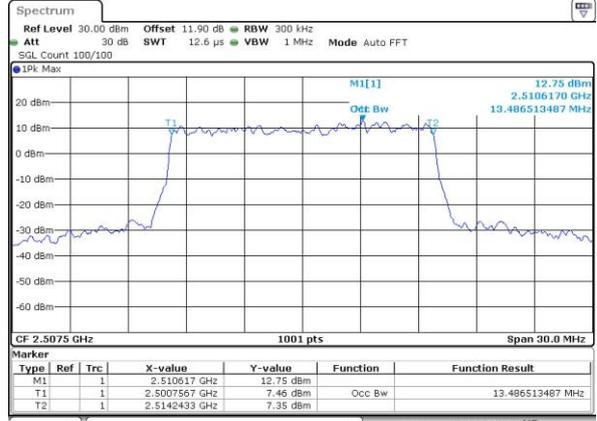
LTE Band 7

Lowest Channel / 15MHz / QPSK



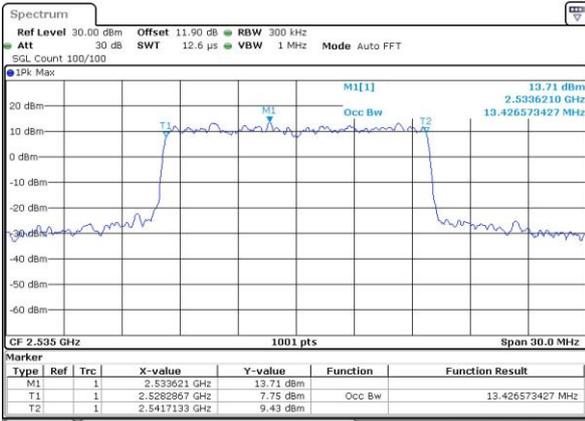
Date: 6,DEC,2016 14:31:03

Lowest Channel / 15MHz / 16QAM



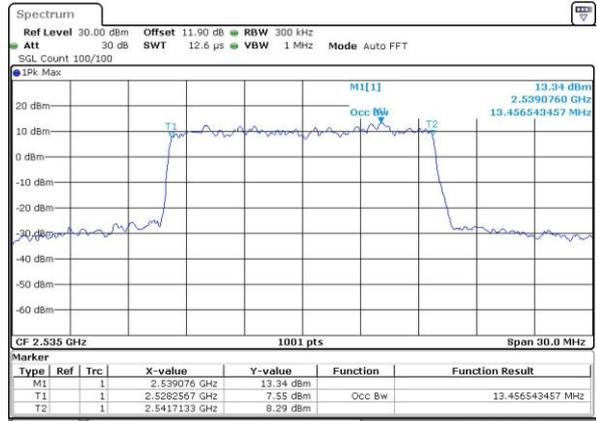
Date: 6,DEC,2016 15:29:19

Middle Channel / 15MHz / QPSK



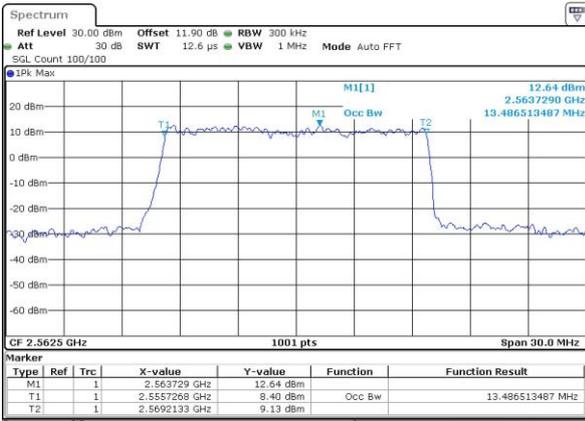
Date: 6,DEC,2016 14:38:24

Middle Channel / 15MHz / 16QAM



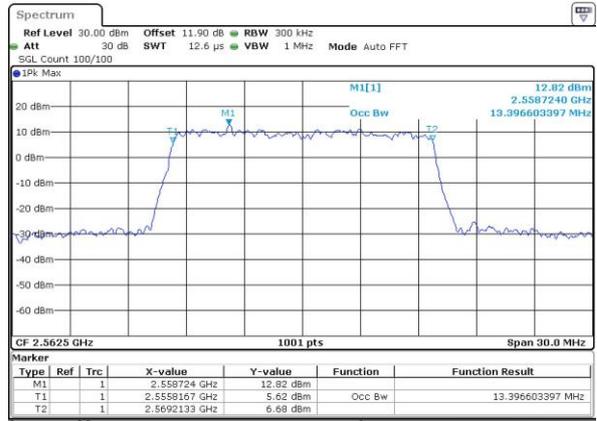
Date: 6,DEC,2016 14:38:36

Highest Channel / 15MHz / QPSK



Date: 6,DEC,2016 15:32:11

Highest Channel / 15MHz / 16QAM

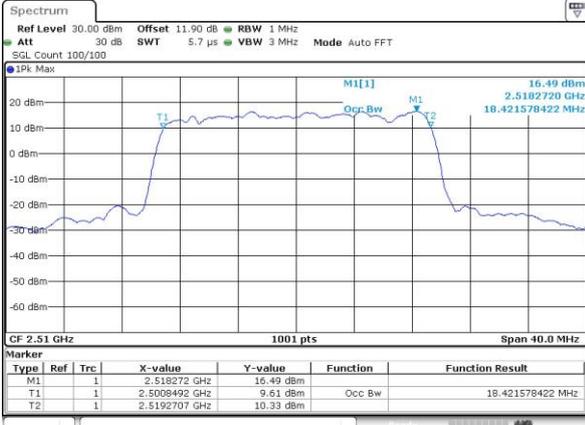


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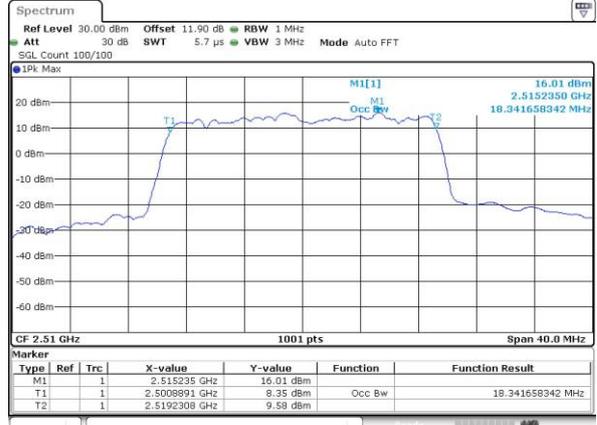
LTE Band 7

Lowest Channel / 20MHz / QPSK



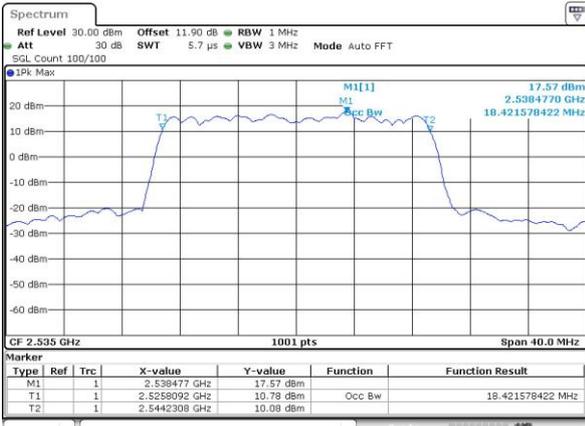
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Lowest Channel / 20MHz / 16QAM



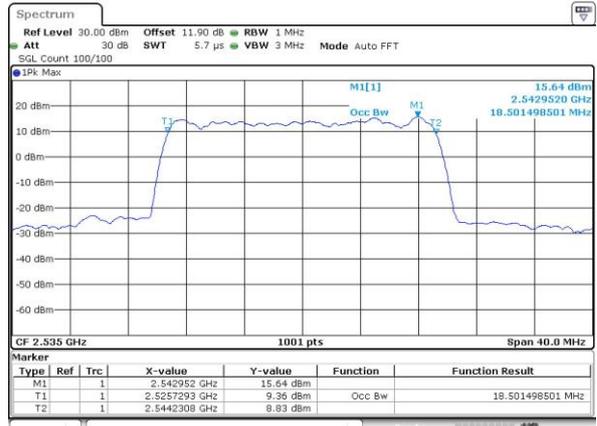
Date: 6,DEC,2016 15:39:46

Middle Channel / 20MHz / QPSK



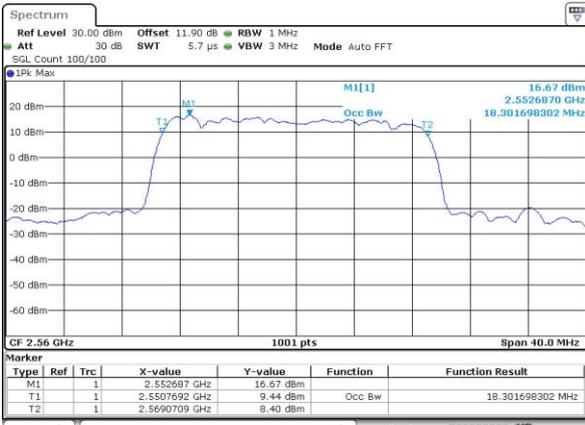
Date: 6,DEC,2016 15:46:56

Middle Channel / 20MHz / 16QAM



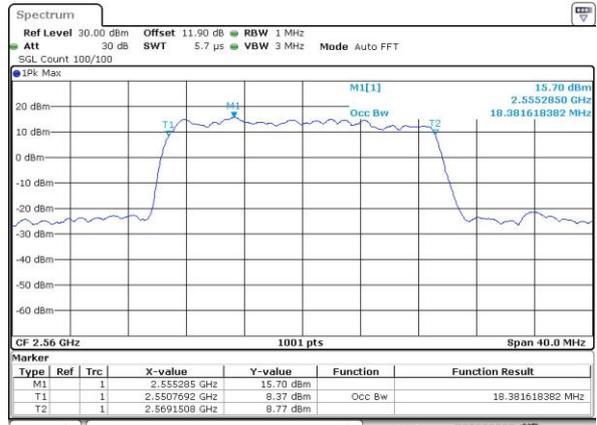
Date: 6,DEC,2016 15:47:06

Highest Channel / 20MHz / QPSK



Date: 6,DEC,2016 15:49:39

Highest Channel / 20MHz / 16QAM



Date: 6,DEC,2016 15:49:51