



## LTE Band 5

### Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	5.07	4.41	5.88	<b>PASS</b>
Middle CH	4.58	5.48	5.54	6.23	
Highest CH	4.2	5.22	5.33	5.88	



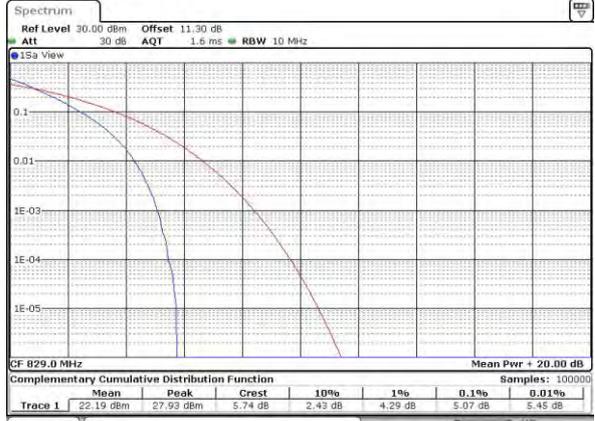
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



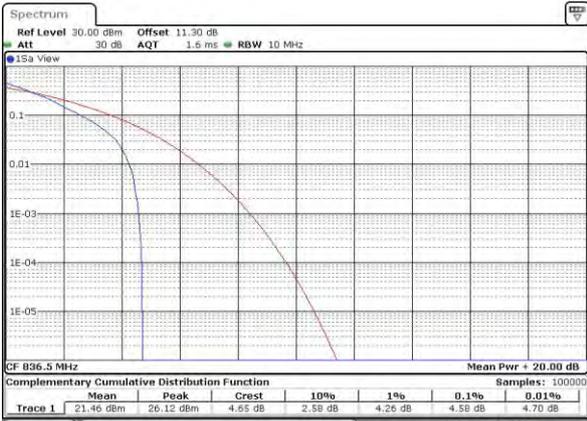
Date: 2 NOV 2015 10:58:59

Lowest Channel / Full RB



Date: 2 NOV 2015 10:59:12

Middle Channel / 1RB



Date: 2 NOV 2015 10:59:22

Middle Channel / Full RB



Date: 2 NOV 2015 10:59:33

Highest Channel / 1RB



Date: 2 NOV 2015 10:59:44

Highest Channel / Full RB



Date: 2 NOV 2015 10:59:54



LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 2 NOV 2015 10:57:35

Lowest Channel / Full RB



Date: 2 NOV 2015 10:57:45

Middle Channel / 1RB



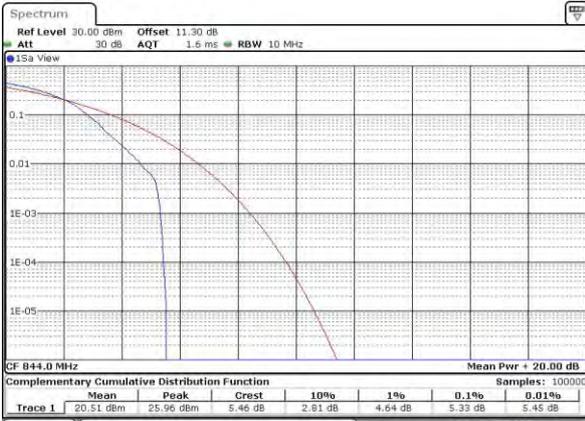
Date: 2 NOV 2015 10:58:00

Middle Channel / Full RB



Date: 2 NOV 2015 10:58:12

Highest Channel / 1RB



Date: 2 NOV 2015 10:58:29

Highest Channel / Full RB



Date: 2 NOV 2015 10:58:43



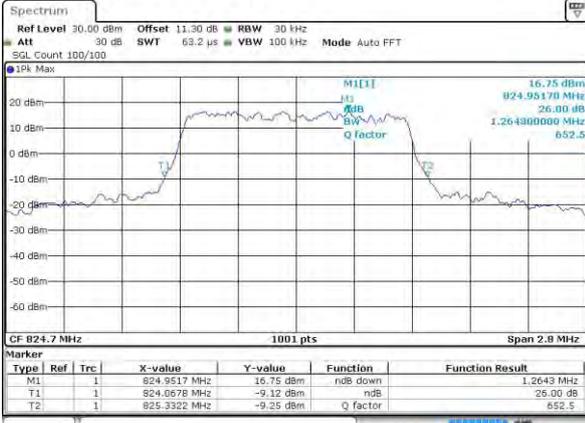
**26dB Bandwidth**

Mode	LTE Band 5 : 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	1.26	1.26	3	2.97	4.96	4.96	10.05	9.85	-	-	-	-
Middle CH	1.25	1.27	3	2.97	4.94	4.95	9.83	9.75	-	-	-	-
Highest CH	1.26	1.25	2.99	3.02	4.84	4.91	9.81	9.89	-	-	-	-



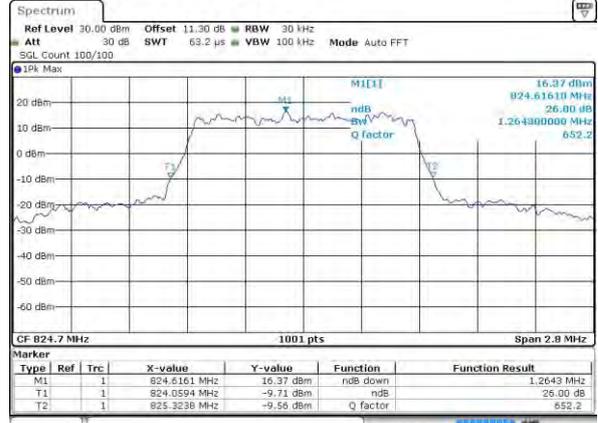
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



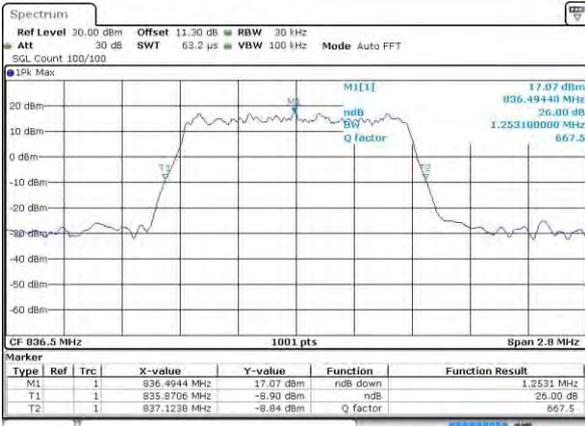
Date: 2 NOV 2015 10:31:25

Lowest Channel / 1.4MHz / 16QAM



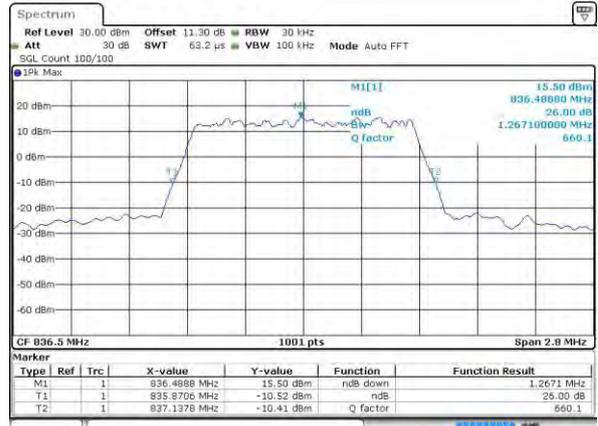
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Middle Channel / 1.4MHz / QPSK



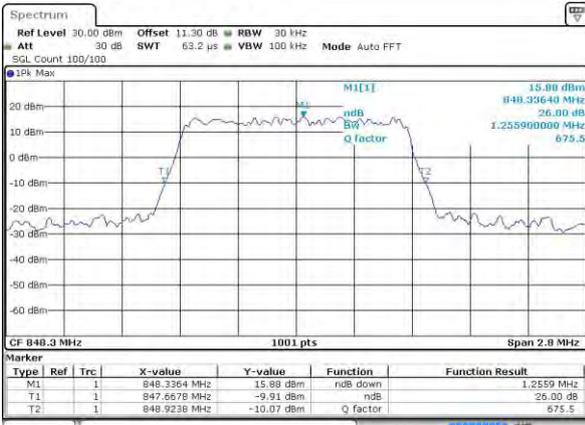
Date: 2 NOV 2015 10:41:23

Middle Channel / 1.4MHz / 16QAM



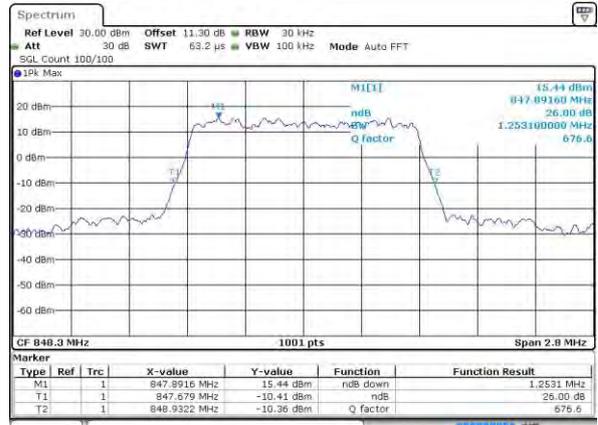
Date: 2 NOV 2015 10:41:33

Highest Channel / 1.4MHz / QPSK



Date: 2 NOV 2015 10:43:53

Highest Channel / 1.4MHz / 16QAM

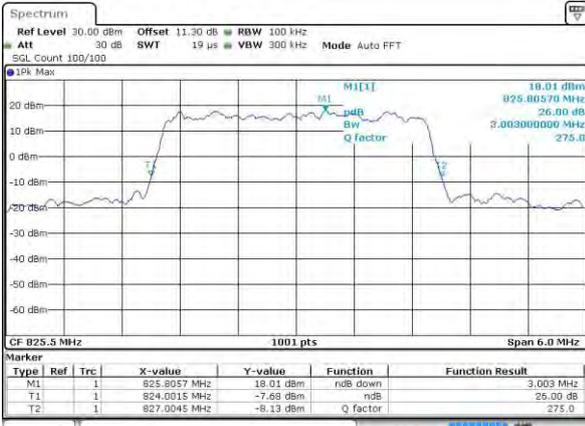


Date: 2 NOV 2015 10:44:03



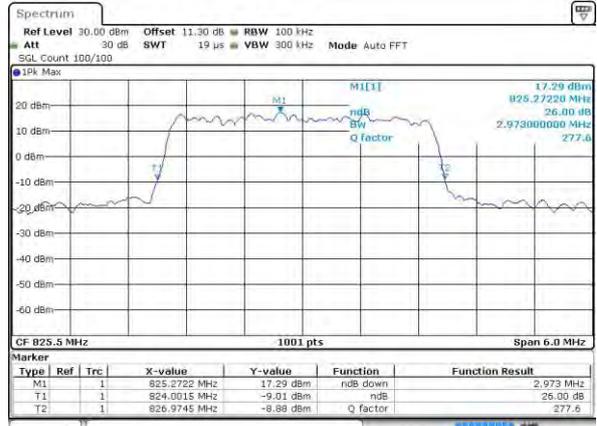
LTE Band 5

Lowest Channel / 3MHz / QPSK



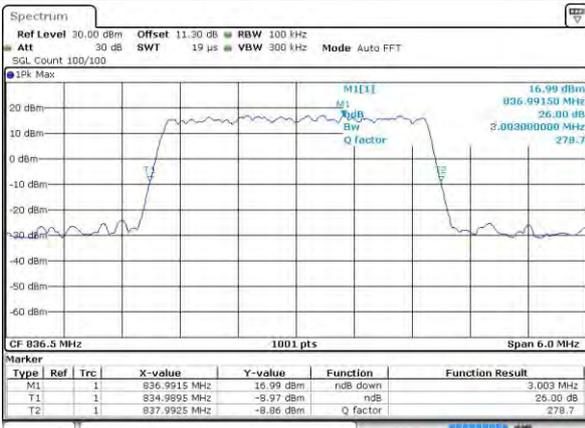
Date: 2 NOV 2015 09:22:53

Lowest Channel / 3MHz / 16QAM



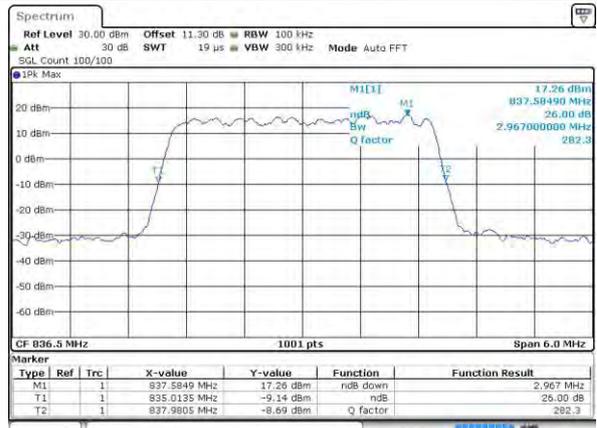
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Middle Channel / 3MHz / QPSK



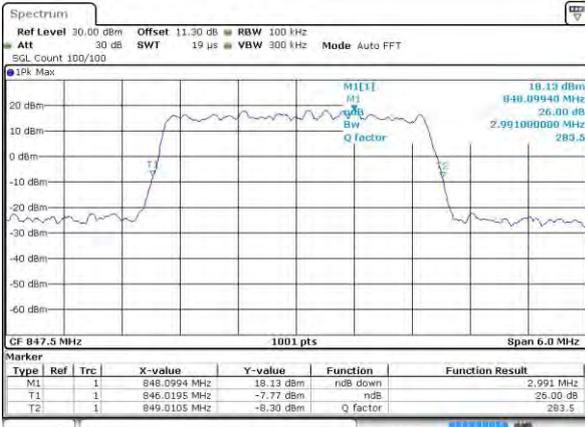
Date: 2 NOV 2015 09:33:01

Middle Channel / 3MHz / 16QAM



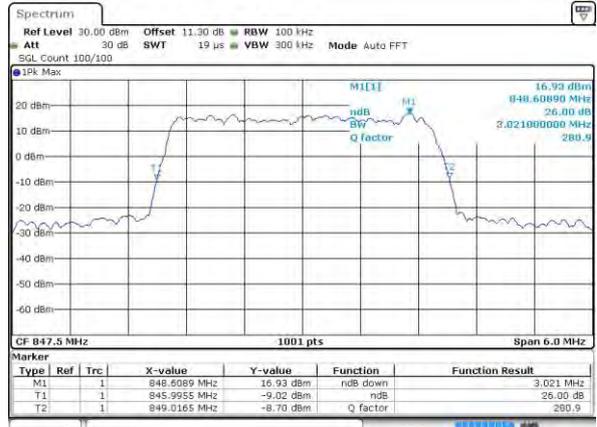
Date: 2 NOV 2015 09:33:12

Highest Channel / 3MHz / QPSK



Date: 2 NOV 2015 09:35:32

Highest Channel / 3MHz / 16QAM

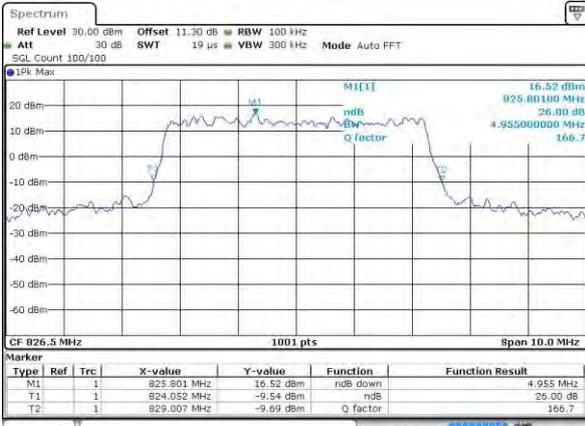


Date: 2 NOV 2015 09:35:43



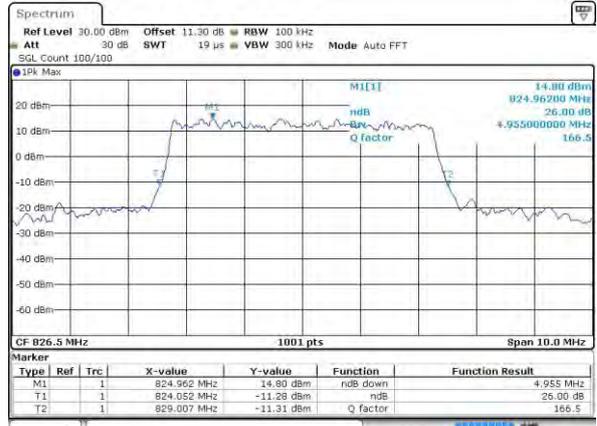
LTE Band 5

Lowest Channel / 5MHz / QPSK



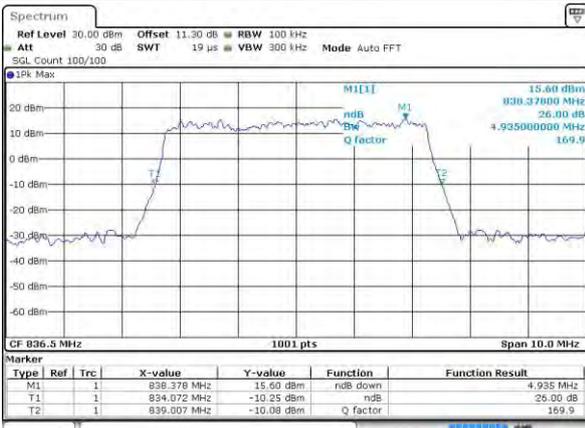
Date: 2 NOV 2015 09:45:41

Lowest Channel / 5MHz / 16QAM



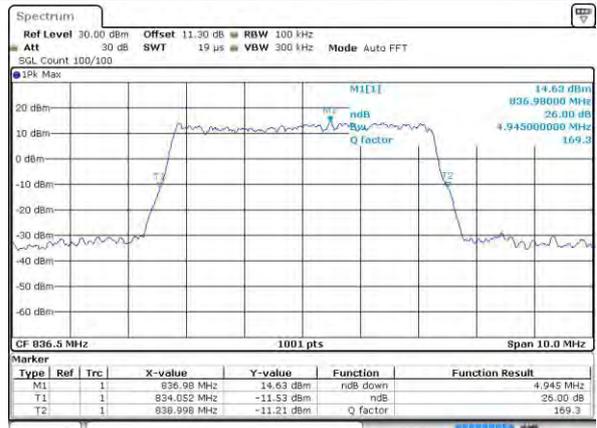
Date: 2 NOV 2015 09:45:51

Middle Channel / 5MHz / QPSK



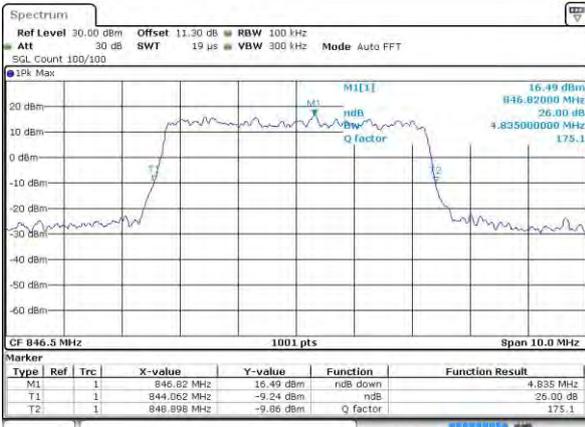
Date: 2 NOV 2015 09:55:48

Middle Channel / 5MHz / 16QAM



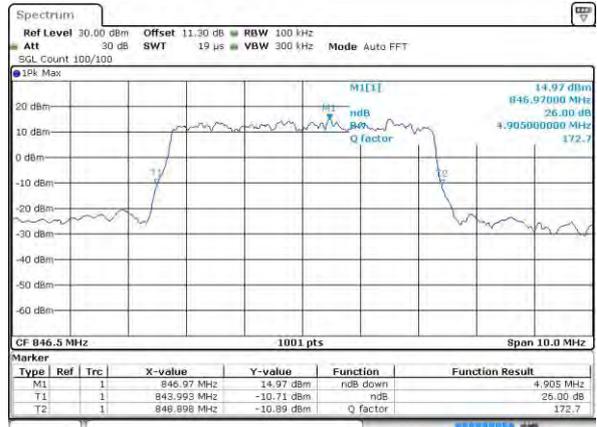
Date: 2 NOV 2015 09:56:00

Highest Channel / 5MHz / QPSK



Date: 2 NOV 2015 09:58:20

Highest Channel / 5MHz / 16QAM

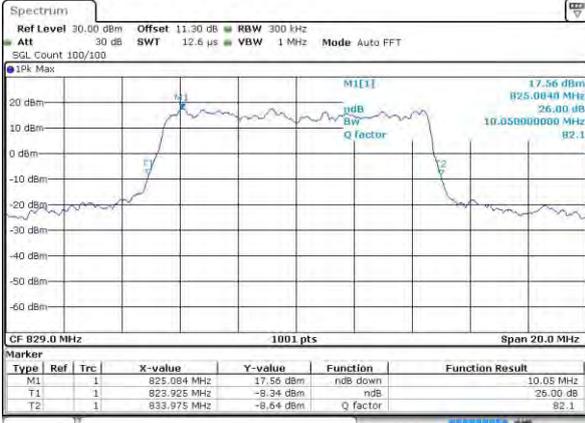


Date: 2 NOV 2015 09:58:30



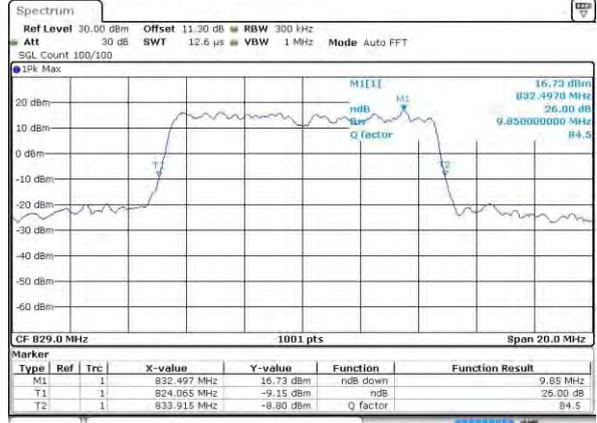
LTE Band 5

Lowest Channel / 10MHz / QPSK



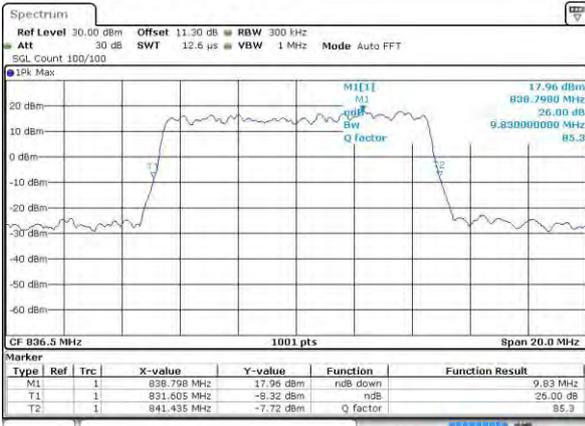
Date: 2 NOV 2015 10:08:28

Lowest Channel / 10MHz / 16QAM



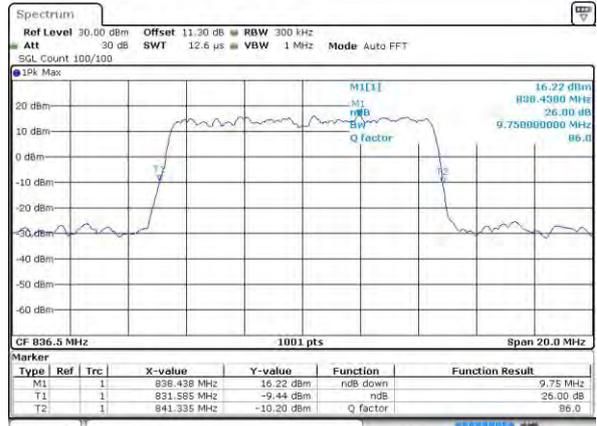
Date: 2 NOV 2015 10:08:38

Middle Channel / 10MHz / QPSK



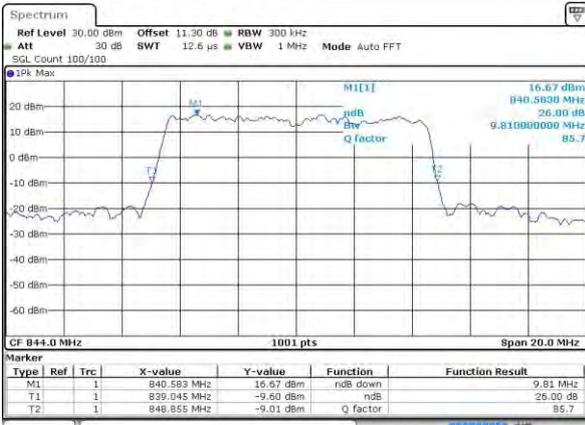
Date: 2 NOV 2015 10:18:55

Middle Channel / 10MHz / 16QAM



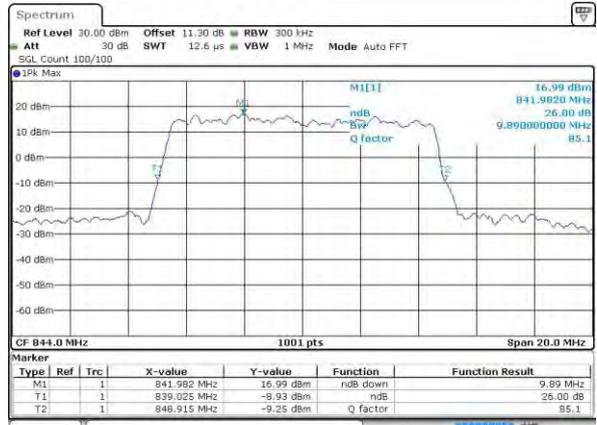
Date: 2 NOV 2015 10:18:46

Highest Channel / 10MHz / QPSK



Date: 2 NOV 2015 10:21:06

Highest Channel / 10MHz / 16QAM



Date: 2 NOV 2015 10:21:16



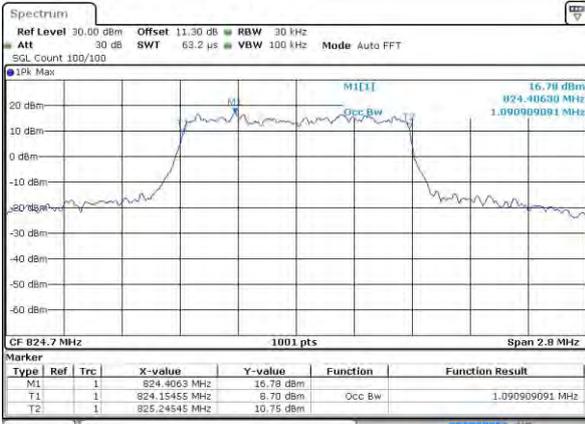
### Occupied Bandwidth

Mode	LTE Band 5 : 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	1.09	1.09	2.73	2.72	4.5	4.5	9.05	9.01	-	-	-	-
Middle CH	1.08	1.09	2.71	2.73	4.5	4.49	9.11	9.03	-	-	-	-
Highest CH	1.1	1.09	2.73	2.73	4.51	4.47	9.05	9.01	-	-	-	-



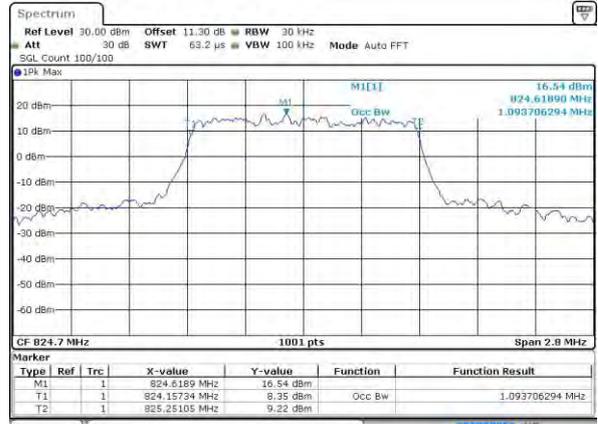
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



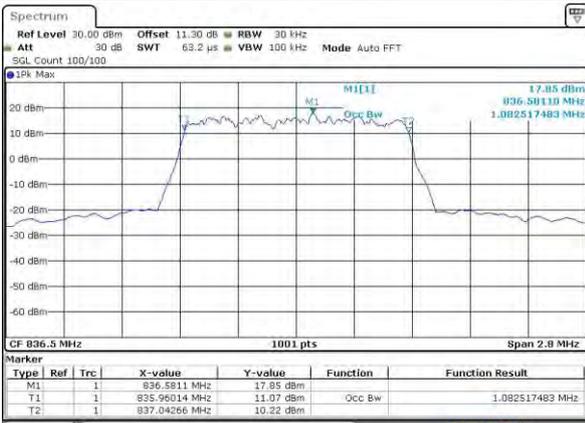
Date: 2 NOV 2015 10:30:53

Lowest Channel / 1.4MHz / 16QAM



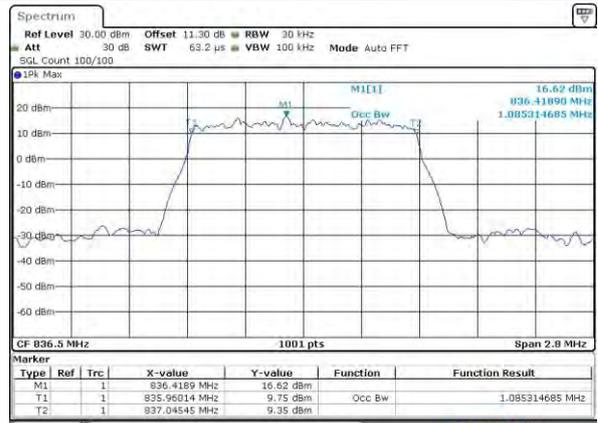
Date: 2 NOV 2015 10:31:04

Middle Channel / 1.4MHz / QPSK



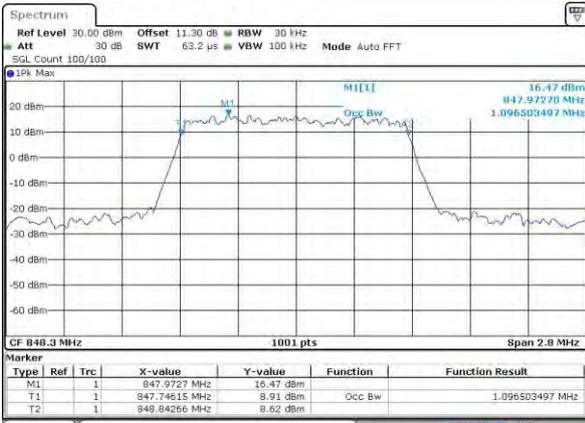
Date: 2 NOV 2015 10:41:02

Middle Channel / 1.4MHz / 16QAM



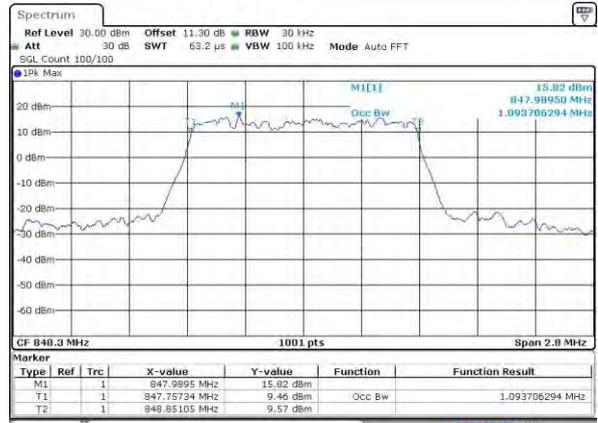
Date: 2 NOV 2015 10:41:12

Highest Channel / 1.4MHz / QPSK



Date: 2 NOV 2015 10:43:32

Highest Channel / 1.4MHz / 16QAM

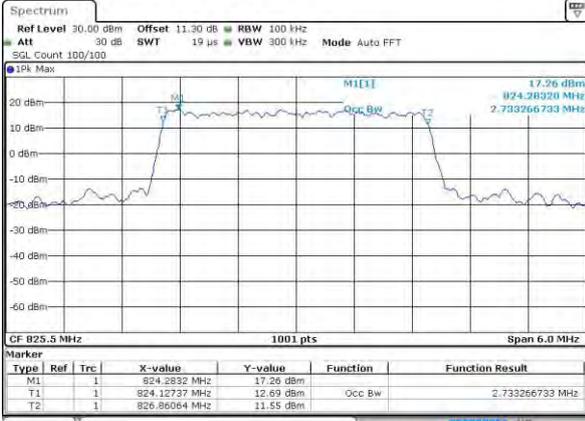


Date: 2 NOV 2015 10:43:43



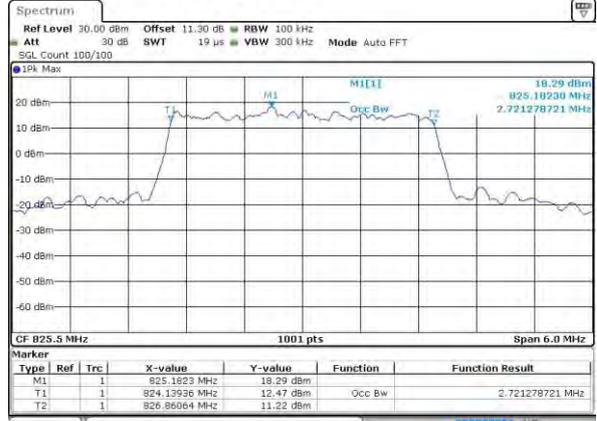
LTE Band 5

Lowest Channel / 3MHz / QPSK



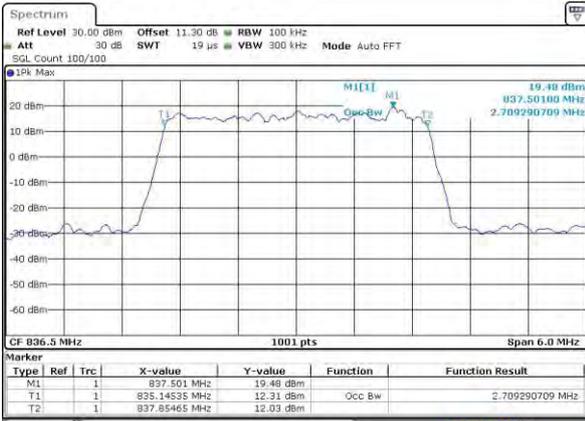
Date: 2 NOV 2015 09:22:31

Lowest Channel / 3MHz / 16QAM



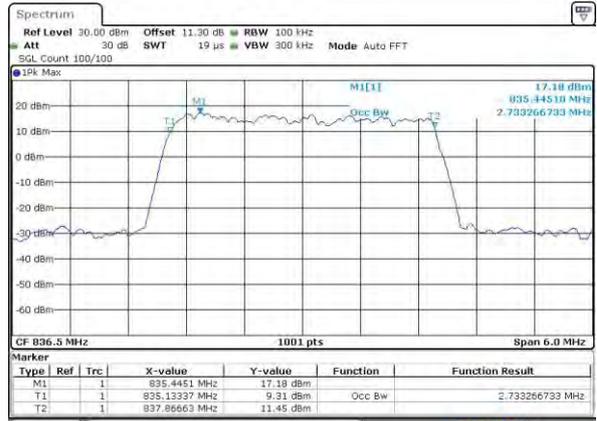
Date: 2 NOV 2015 09:22:42

Middle Channel / 3MHz / QPSK



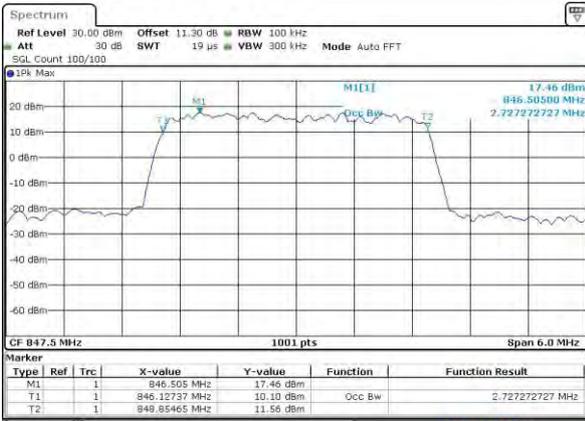
Date: 2 NOV 2015 09:32:40

Middle Channel / 3MHz / 16QAM



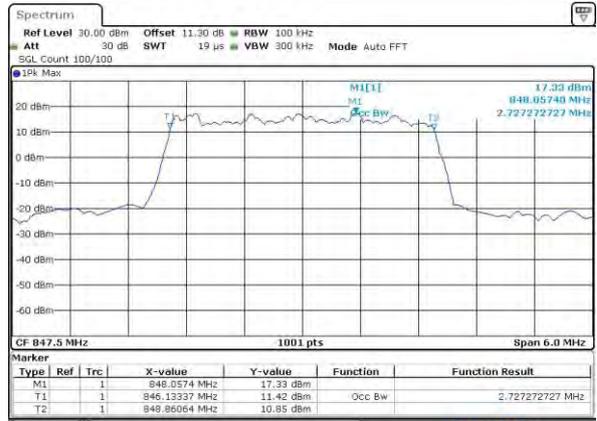
Date: 2 NOV 2015 09:32:51

Highest Channel / 3MHz / QPSK



Date: 2 NOV 2015 09:35:11

Highest Channel / 3MHz / 16QAM

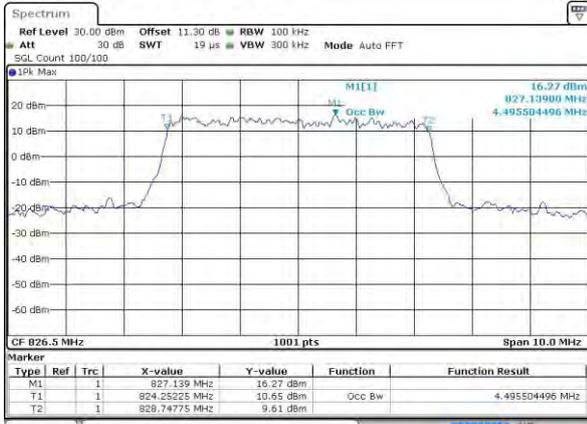


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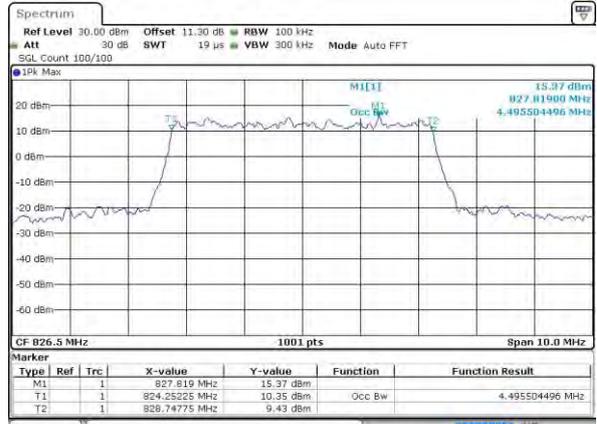
LTE Band 5

Lowest Channel / 5MHz / QPSK



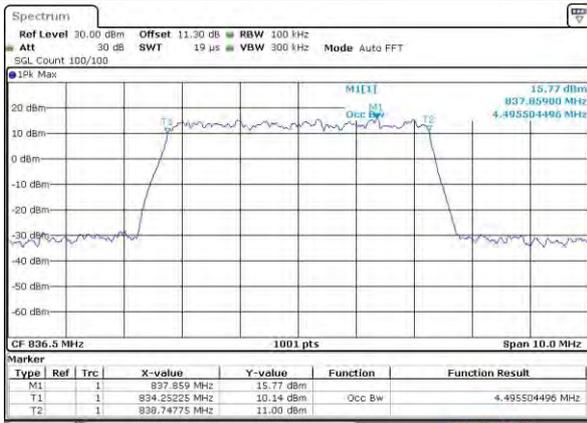
Date: 2 NOV 2015 09:45:20

Lowest Channel / 5MHz / 16QAM



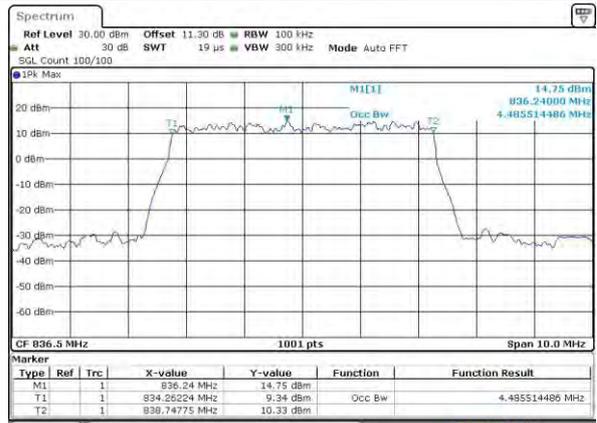
Date: 2 NOV 2015 09:45:30

Middle Channel / 5MHz / QPSK



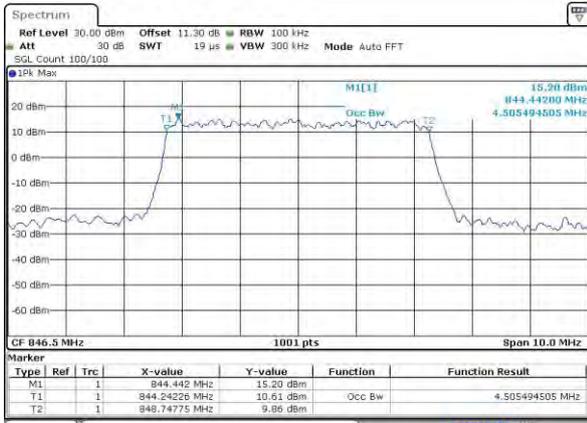
Date: 2 NOV 2015 09:55:28

Middle Channel / 5MHz / 16QAM



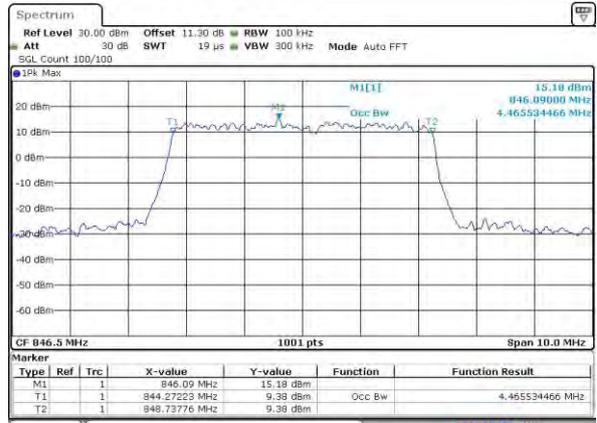
Date: 2 NOV 2015 09:55:39

Highest Channel / 5MHz / QPSK



Date: 2 NOV 2015 09:57:59

Highest Channel / 5MHz / 16QAM

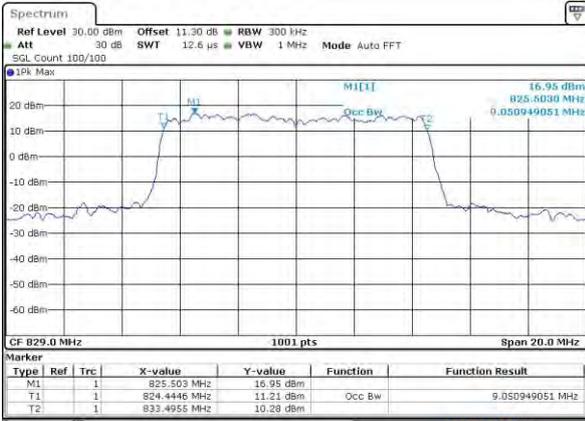


Date: 2 NOV 2015 09:58:09



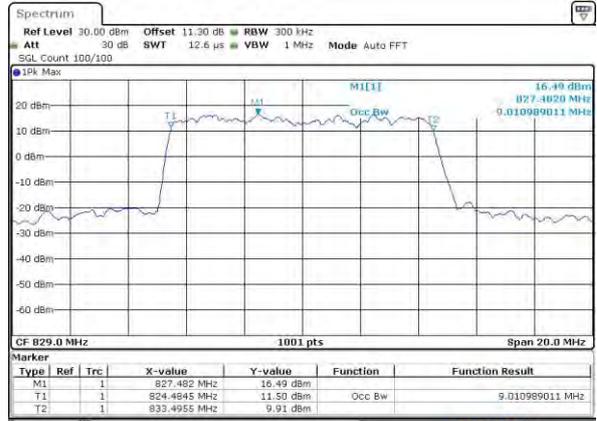
LTE Band 5

Lowest Channel / 10MHz / QPSK



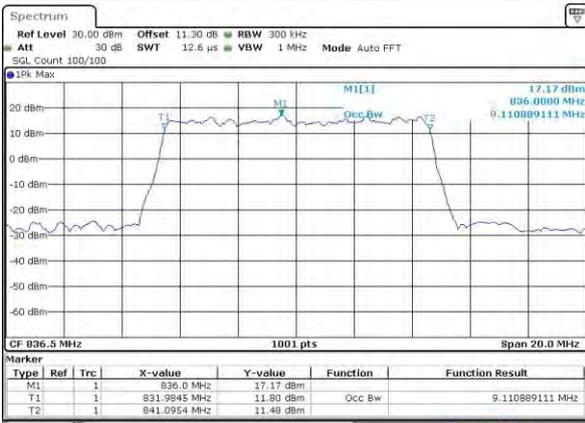
Date: 2 NOV 2015 10:08:07

Lowest Channel / 10MHz / 16QAM



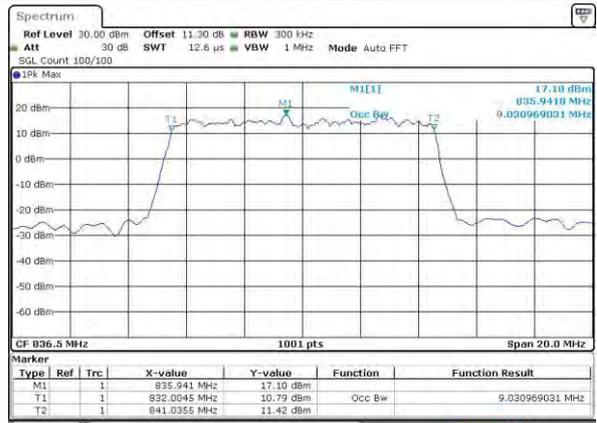
Date: 2 NOV 2015 10:08:18

Middle Channel / 10MHz / QPSK



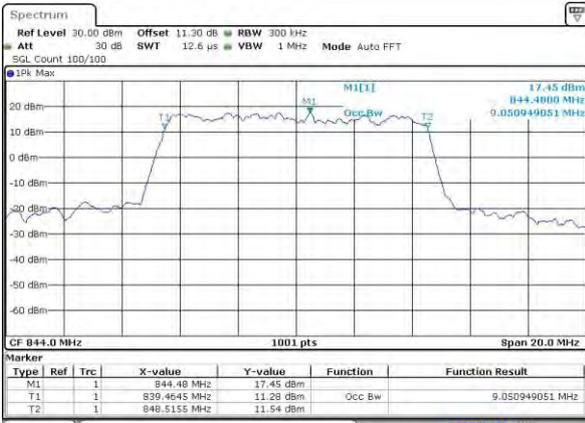
Date: 2 NOV 2015 10:18:15

Middle Channel / 10MHz / 16QAM



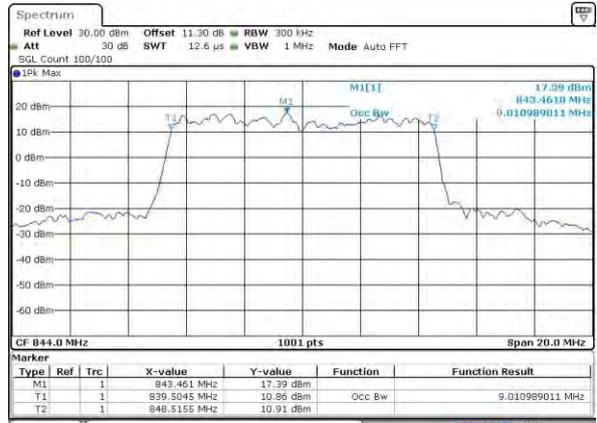
Date: 2 NOV 2015 10:18:25

Highest Channel / 10MHz / QPSK



Date: 2 NOV 2015 10:20:45

Highest Channel / 10MHz / 16QAM



Date: 2 NOV 2015 10:20:55



**Conducted Band Edge**



LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



Date: 2 NOV 2015 10:33:19

Highest Band Edge / 1RB



Date: 2 NOV 2015 10:49:46

Lowest Band Edge / Full RB



Date: 2 NOV 2015 10:37:07

Highest Band Edge / Full RB



Date: 2 NOV 2015 10:45:57



LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 2 NOV 2015 10:35:13

Highest Band Edge / 1 RB



Date: 2 NOV 2015 10:51:40

Lowest Band Edge / Full RB



Date: 2 NOV 2015 10:39:02

Highest Band Edge / Full RB

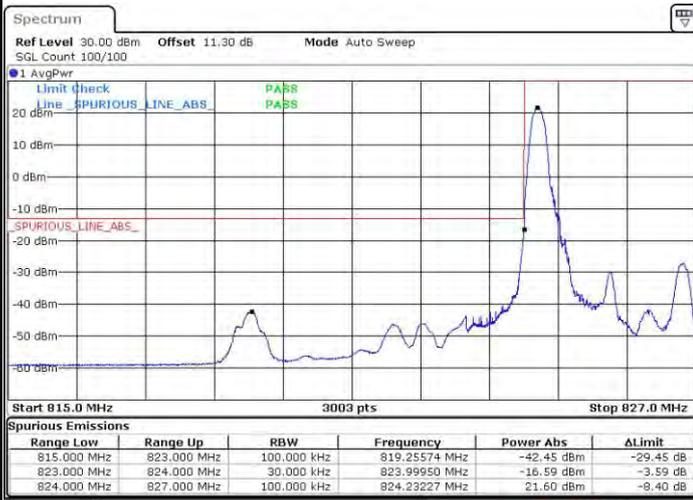


Date: 2 NOV 2015 10:47:51



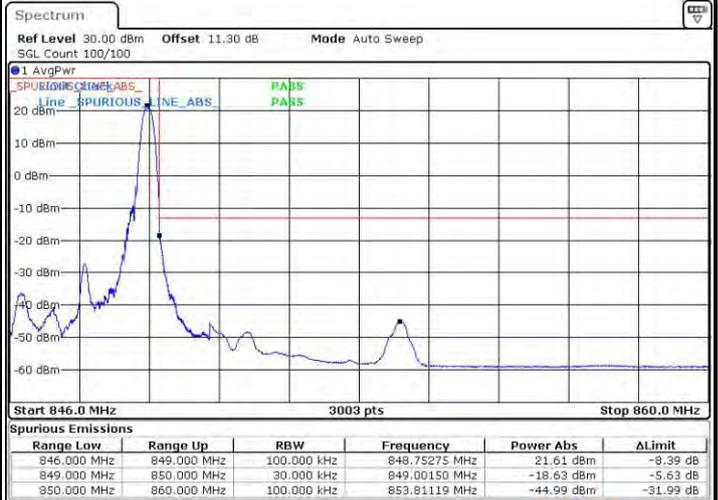
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 2 NOV 2015 09:24:57

Highest Band Edge / 1 RB



Date: 2 NOV 2015 09:37:37

Lowest Band Edge / Full RB



Date: 2 NOV 2015 09:28:46

Highest Band Edge / Full RB

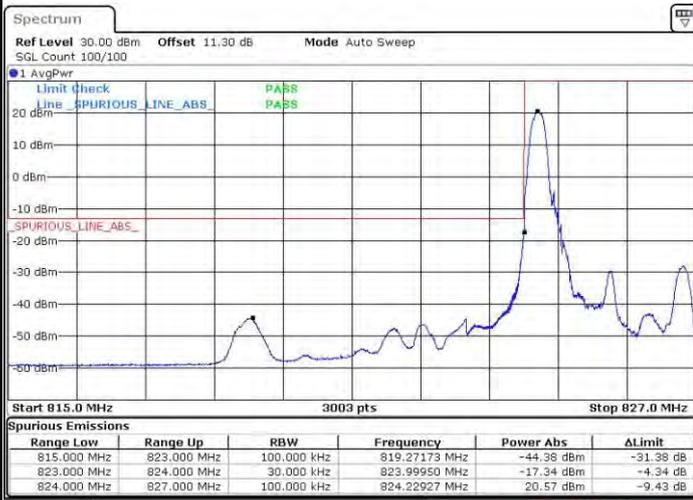


Date: 2 NOV 2015 09:41:26



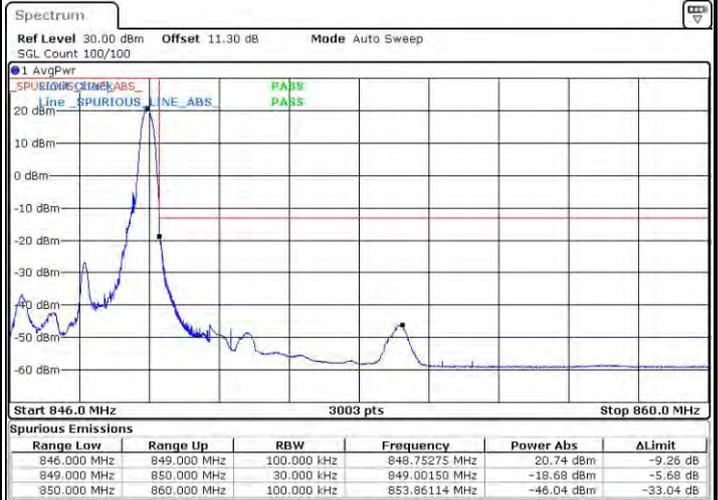
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 2 NOV 2015 09:26:52

Highest Band Edge / 1 RB



Date: 2 NOV 2015 09:39:31

Lowest Band Edge / Full RB



Date: 2 NOV 2015 09:30:40

Highest Band Edge / Full RB

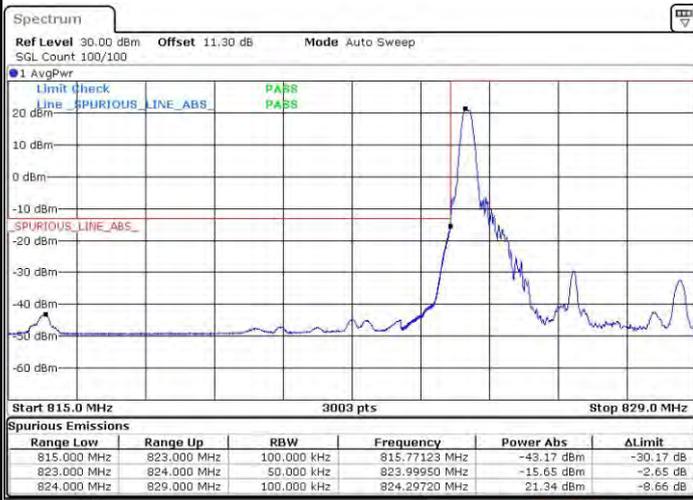


Date: 2 NOV 2015 09:43:20



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Date: 2 NOV 2015 09:47:45

Highest Band Edge / 1 RB



Date: 2 NOV 2015 10:00:24

Lowest Band Edge / Full RB



Date: 2 NOV 2015 09:51:34

Highest Band Edge / Full RB

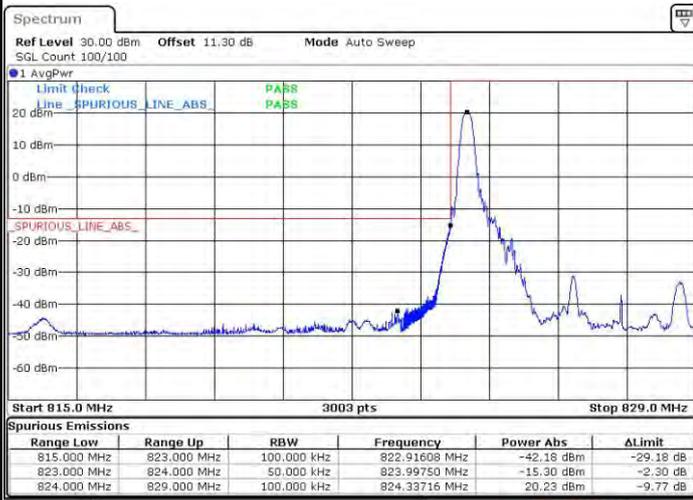


Date: 2 NOV 2015 10:04:13



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Date: 2 NOV 2015 09:49:39

Highest Band Edge / 1 RB



Date: 2 NOV 2015 10:02:19

Lowest Band Edge / Full RB



Date: 2 NOV 2015 09:53:28

Highest Band Edge / Full RB

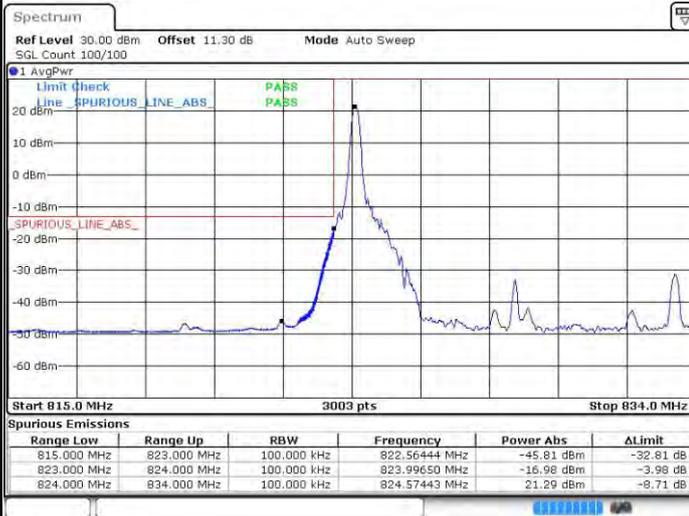


Date: 2 NOV 2015 10:06:07



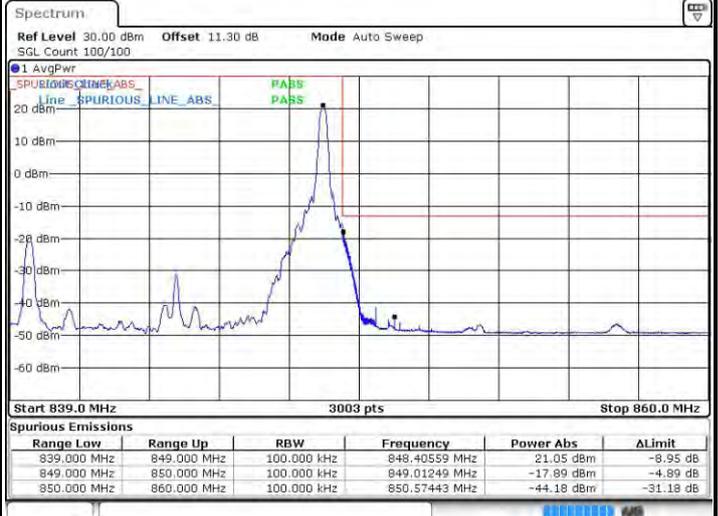
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



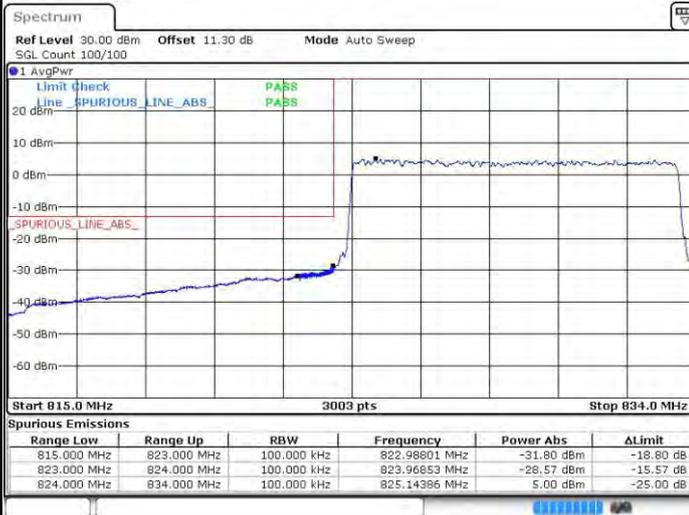
Date: 2 NOV 2015 10:10:32

Highest Band Edge / 1 RB



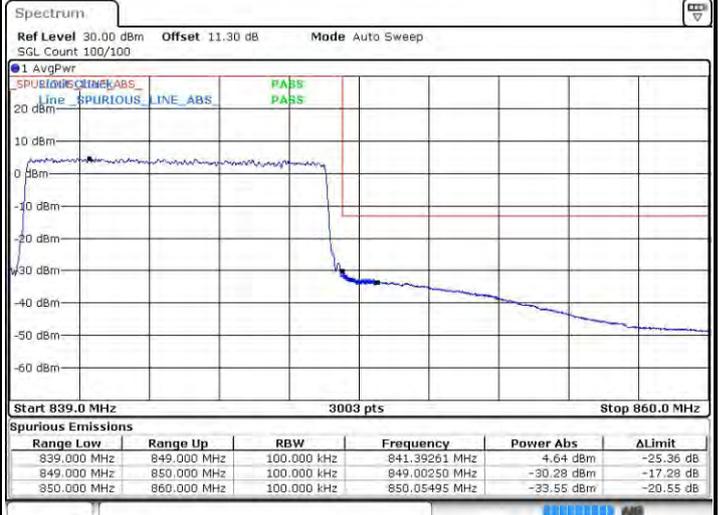
Date: 2 NOV 2015 10:23:10

Lowest Band Edge / Full RB



Date: 2 NOV 2015 10:14:21

Highest Band Edge / Full RB

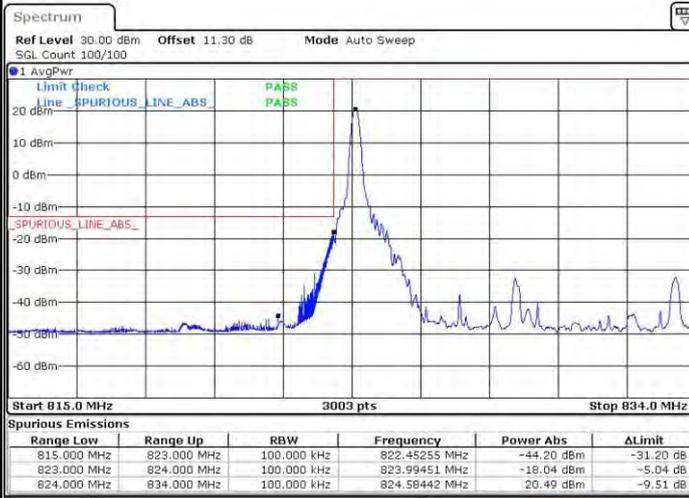


Date: 2 NOV 2015 10:26:59



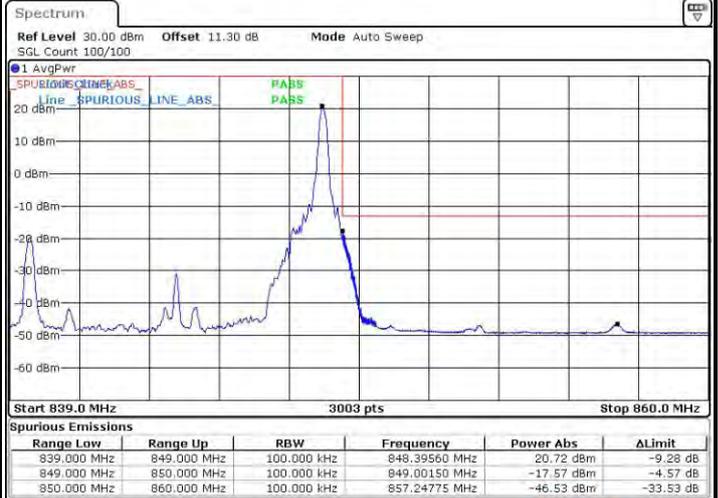
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



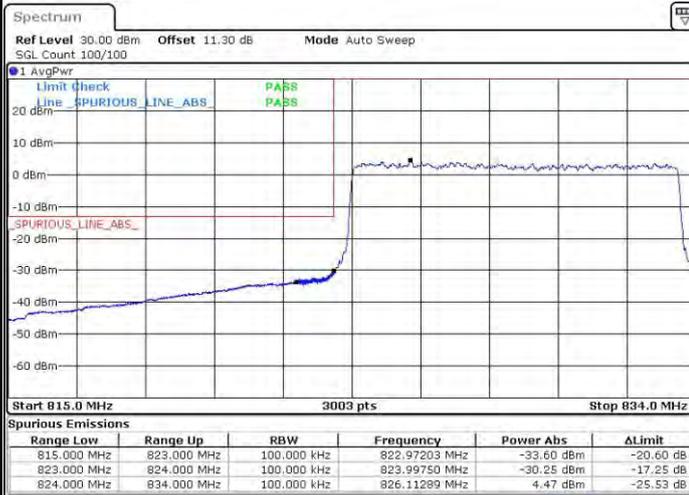
Date: 2 NOV 2015 10:12:26

Highest Band Edge / 1 RB



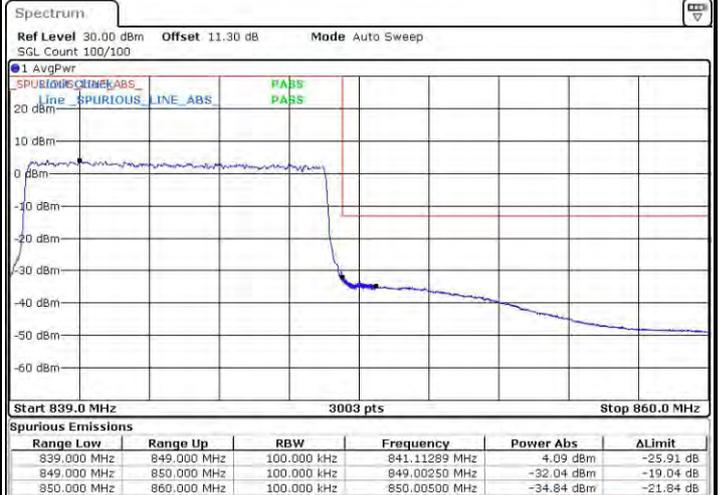
Date: 2 NOV 2015 10:25:04

Lowest Band Edge / Full RB



Date: 2 NOV 2015 10:16:15

Highest Band Edge / Full RB



Date: 2 NOV 2015 10:28:53



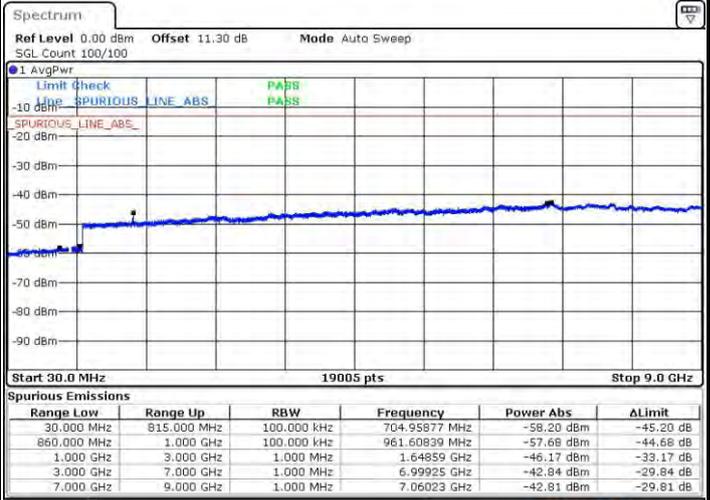
**Conducted Spurious Emission**



LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

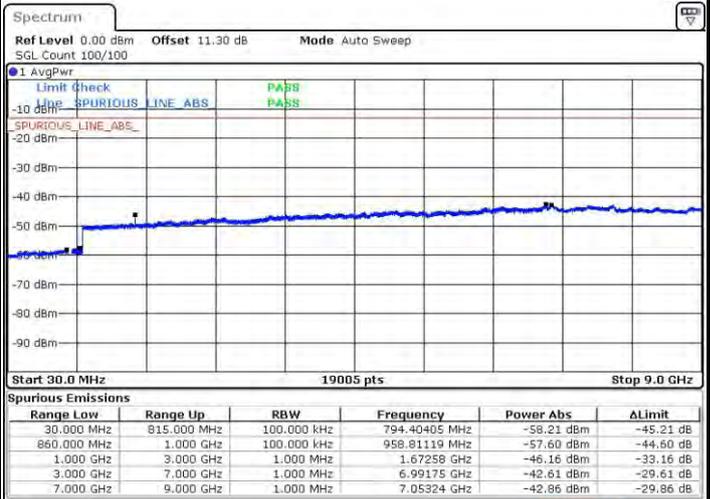
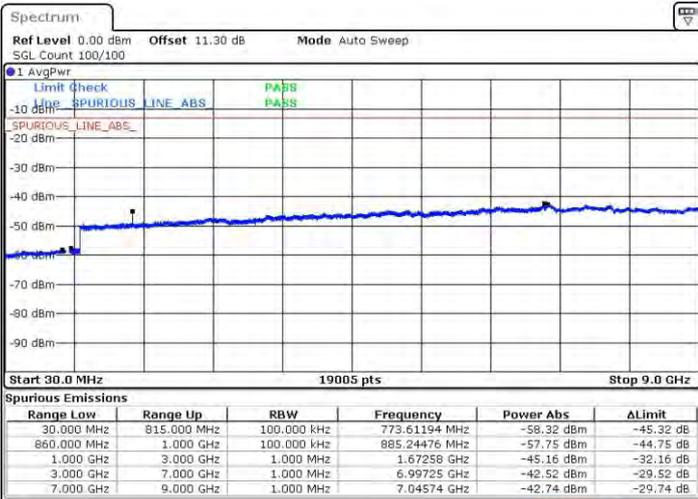


Date: 2 NOV 2015 10:39:57

Date: 2 NOV 2015 10:40:51

Middle Channel / QPSK

Middle Channel / 16QAM



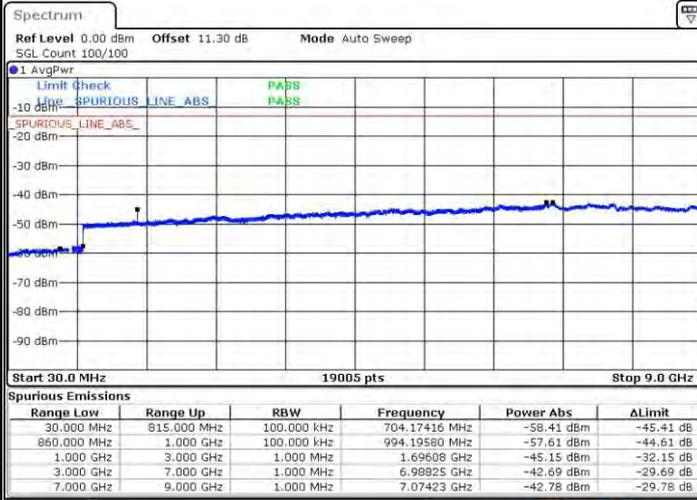
Date: 2 NOV 2015 10:42:27

Date: 2 NOV 2015 10:43:22



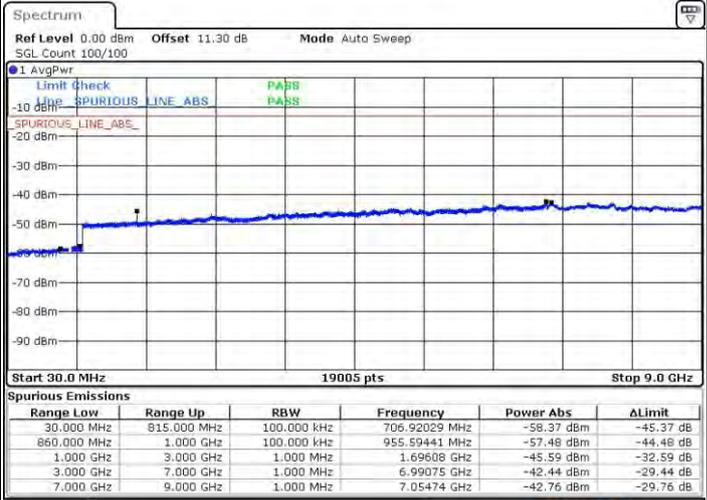
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 2 NOV 2015 10:52:35

Highest Channel / 16QAM



Date: 2 NOV 2015 10:53:29

LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 2 NOV 2015 09:31:35

Lowest Channel / 16QAM



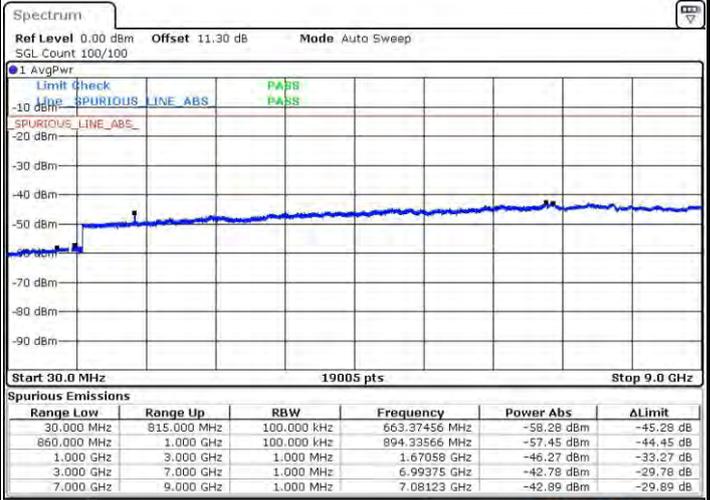
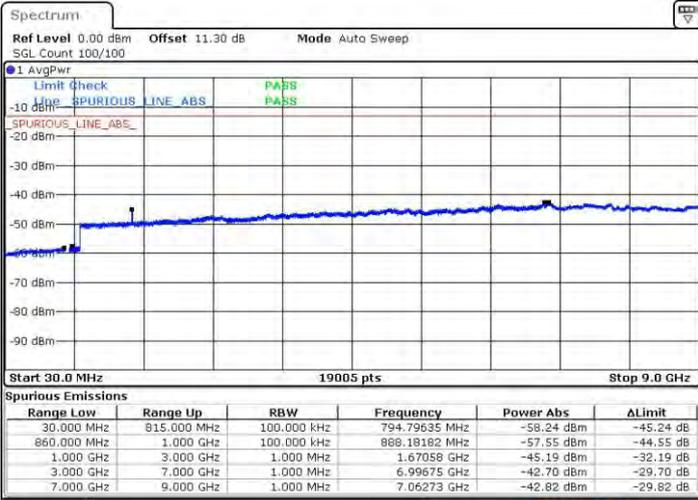
Date: 2 NOV 2015 09:32:30



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

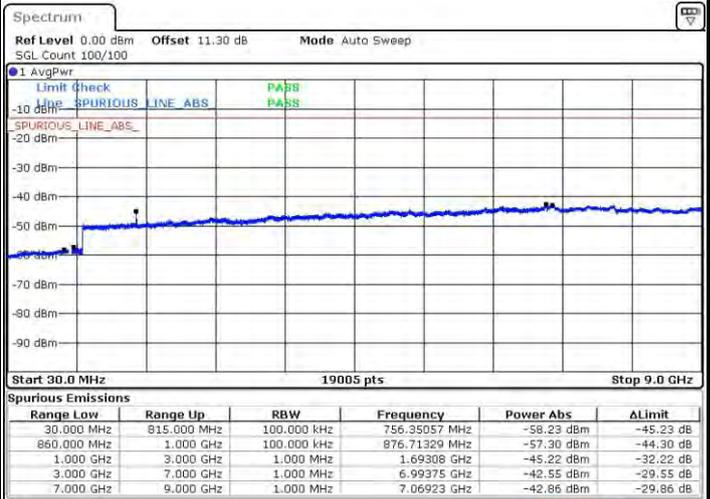


Date: 2 NOV 2015 09:34:06

Date: 2 NOV 2015 09:35:01

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2 NOV 2015 09:44:15

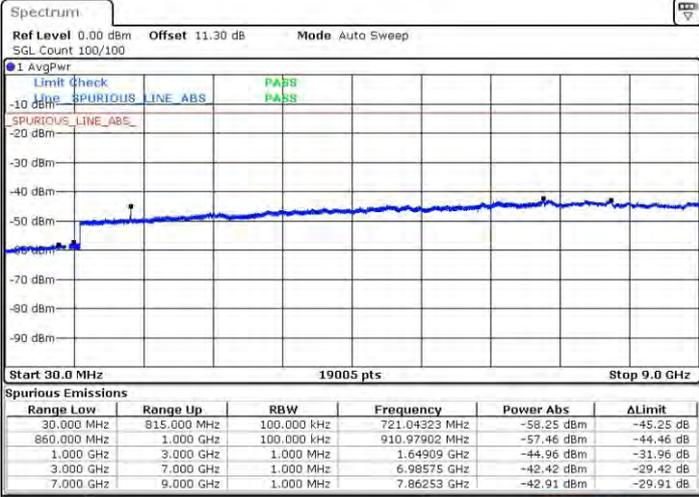
Date: 2 NOV 2015 09:45:09



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

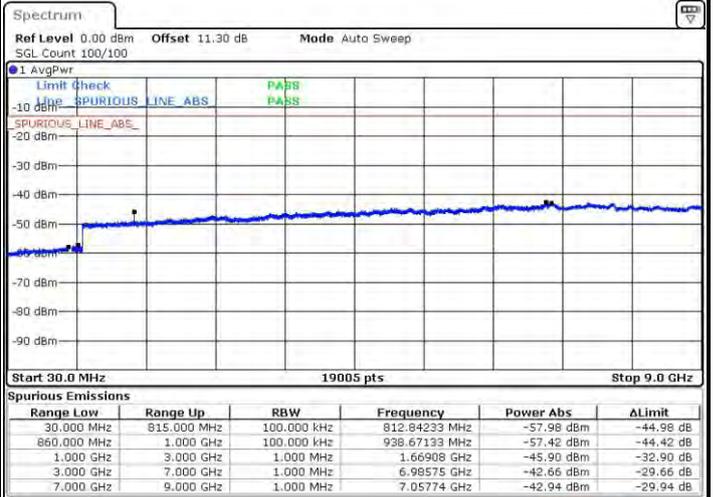
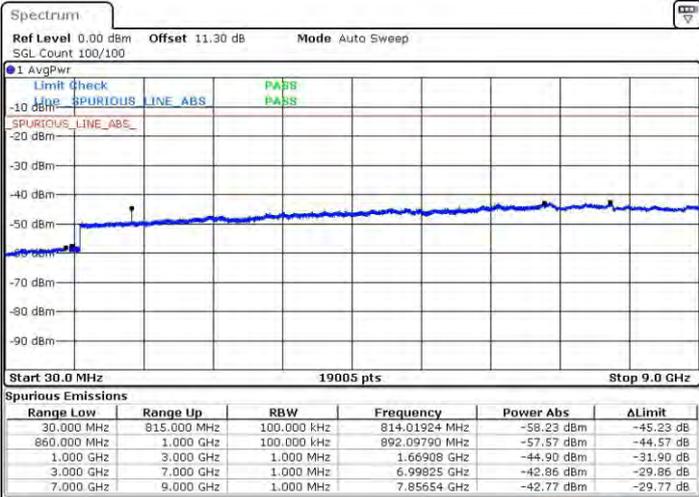


Date: 2 NOV 2015 09:54:23

Date: 2 NOV 2015 09:55:18

Middle Channel / QPSK

Middle Channel / 16QAM



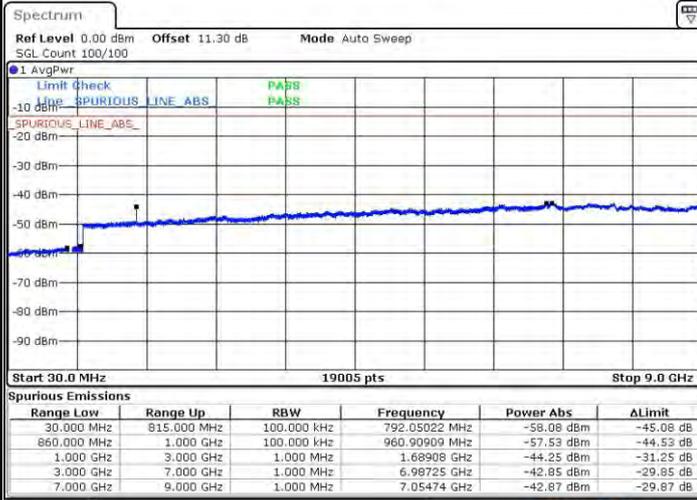
Date: 2 NOV 2015 09:56:54

Date: 2 NOV 2015 09:57:48



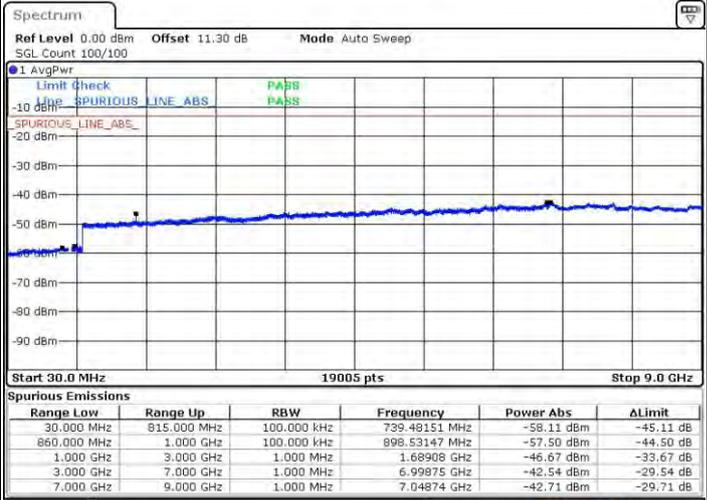
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 2 NOV 2015 10:07:02

Highest Channel / 16QAM



Date: 2 NOV 2015 10:07:57

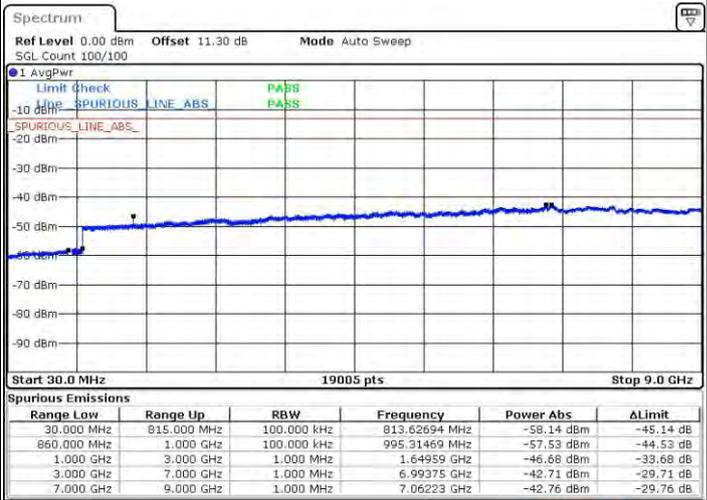
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 2 NOV 2015 10:17:10

Lowest Channel / 16QAM



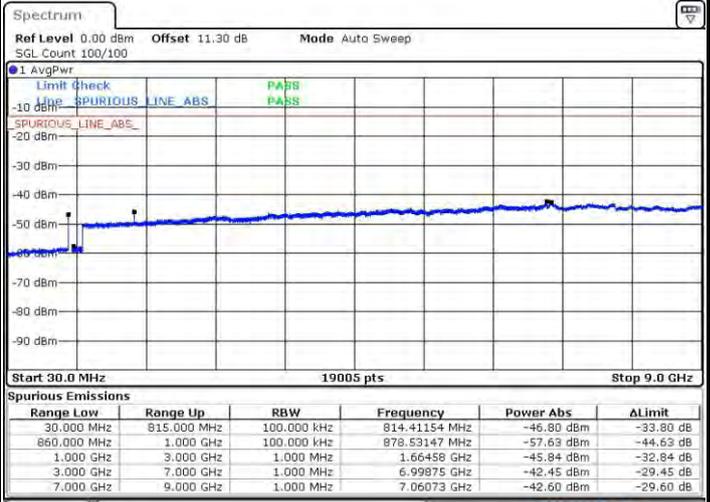
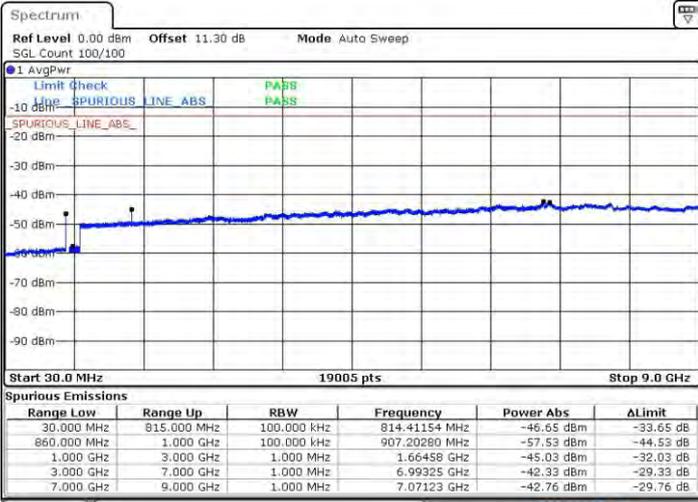
Date: 2 NOV 2015 10:18:04



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

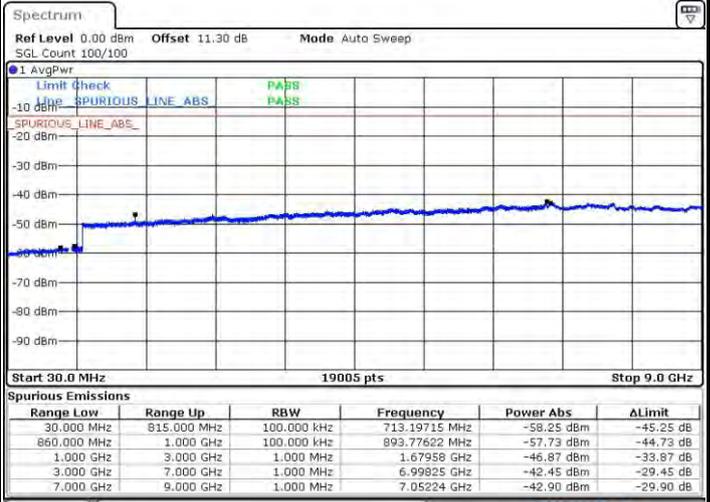
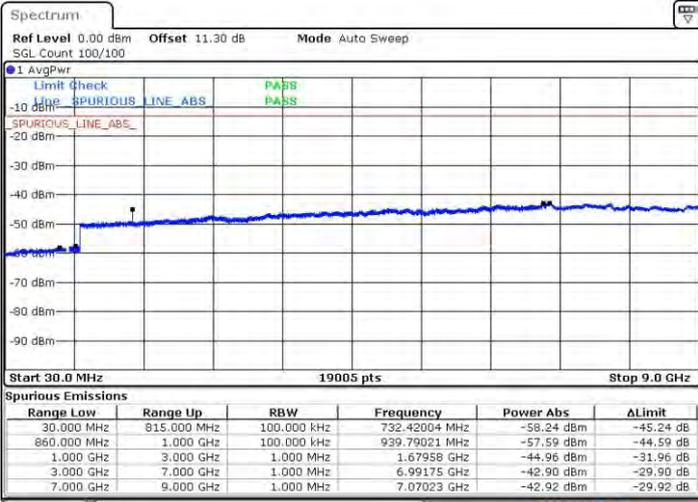


Date: 2 NOV 2015 10:19:40

Date: 2 NOV 2015 10:20:35

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2 NOV 2015 10:29:48

Date: 2 NOV 2015 10:30:43



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	0.0022	PASS
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0030	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0041	

Note: Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V