



LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 19.MAY.2015 11:09:31

Highest Band Edge / 1 RB



Date: 19.MAY.2015 11:15:21

Lowest Band Edge / Full RB



Date: 19.MAY.2015 11:07:36

Highest Band Edge / Full RB

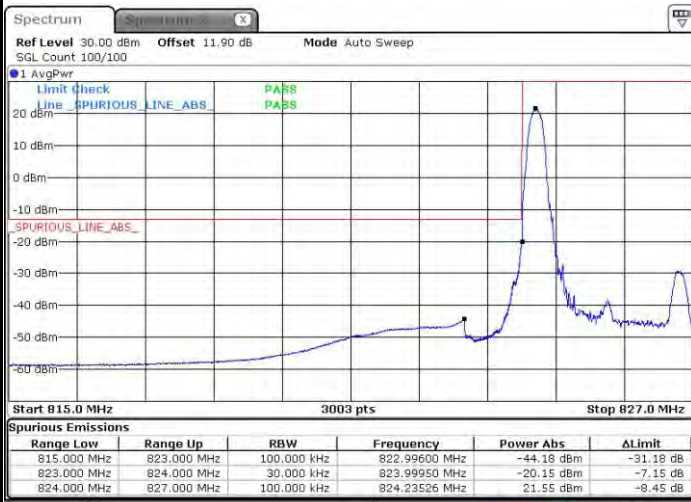


Date: 19.MAY.2015 11:17:16



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 19.MAY.2015 09:24:54

Highest Band Edge / 1 RB



Date: 19.MAY.2015 09:35:48

Lowest Band Edge / Full RB



Date: 19.MAY.2015 09:27:13

Highest Band Edge / Full RB

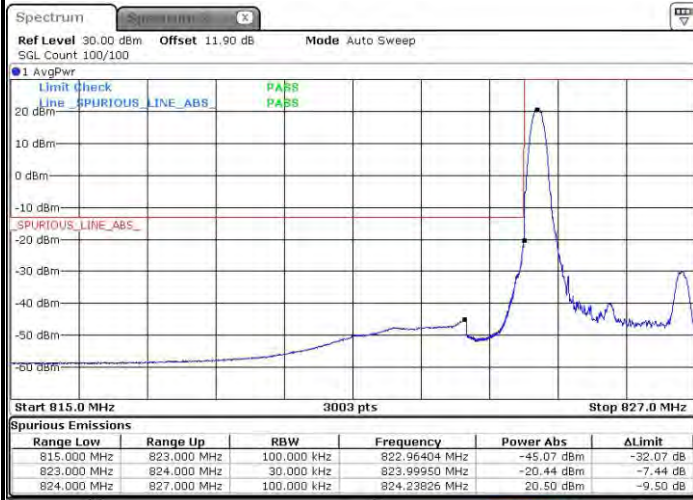


Date: 19.MAY.2015 09:38:08



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 19.MAY.2015 09:26:03

Highest Band Edge / 1 RB



Date: 19.MAY.2015 09:36:58

Lowest Band Edge / Full RB



Date: 19.MAY.2015 09:28:23

Highest Band Edge / Full RB

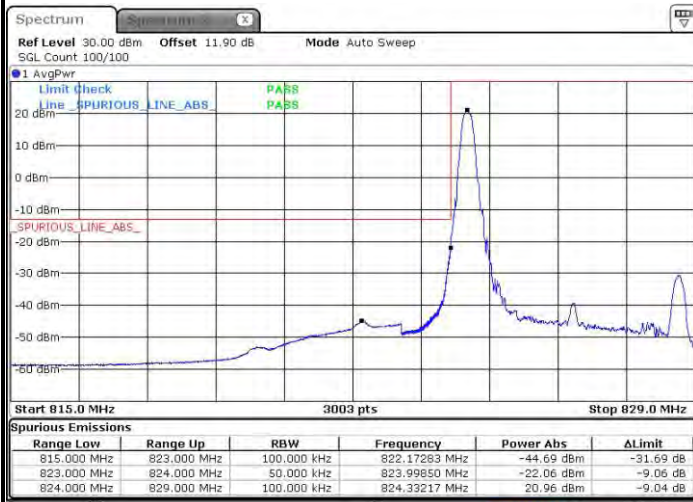


Date: 19.MAY.2015 09:39:18



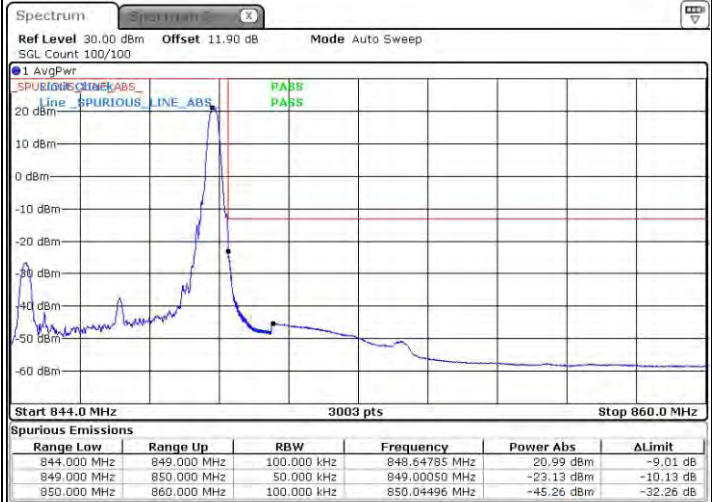
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



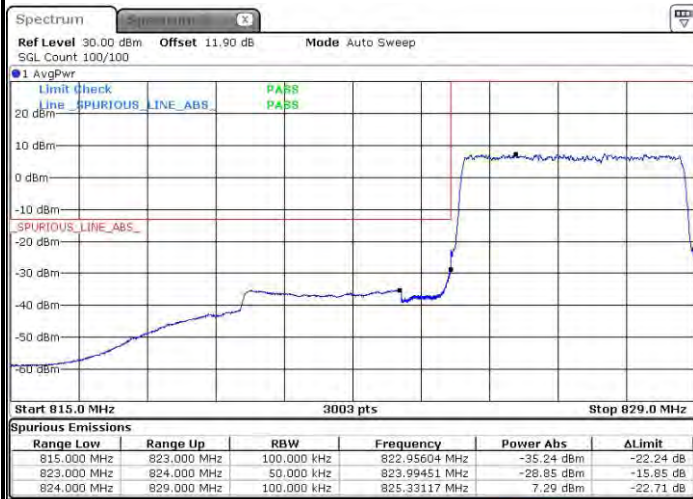
Date: 19.MAY.2015 09:43:38

Highest Band Edge / 1 RB



Date: 19.MAY.2015 09:54:30

Lowest Band Edge / Full RB



Date: 19.MAY.2015 09:45:58

Highest Band Edge / Full RB

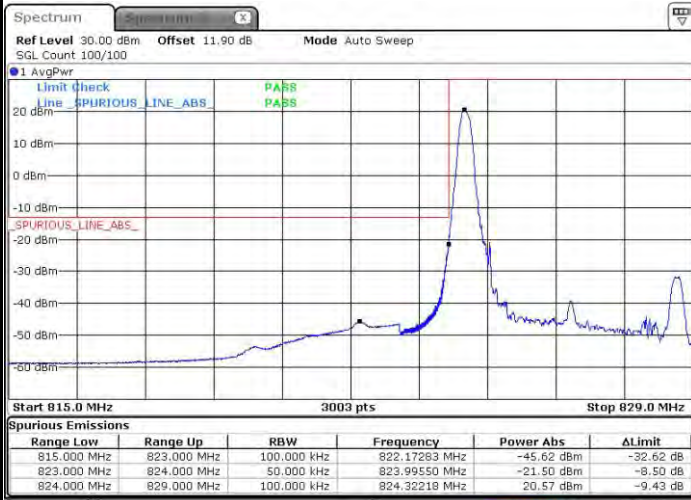


Date: 19.MAY.2015 09:56:50



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



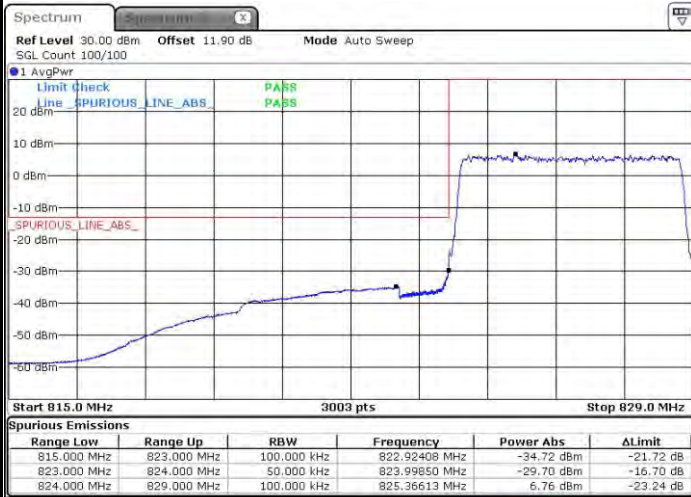
Date: 19.MAY.2015 09:44:48

Highest Band Edge / 1 RB



Date: 19.MAY.2015 09:55:40

Lowest Band Edge / Full RB



Date: 19.MAY.2015 09:47:08

Highest Band Edge / Full RB

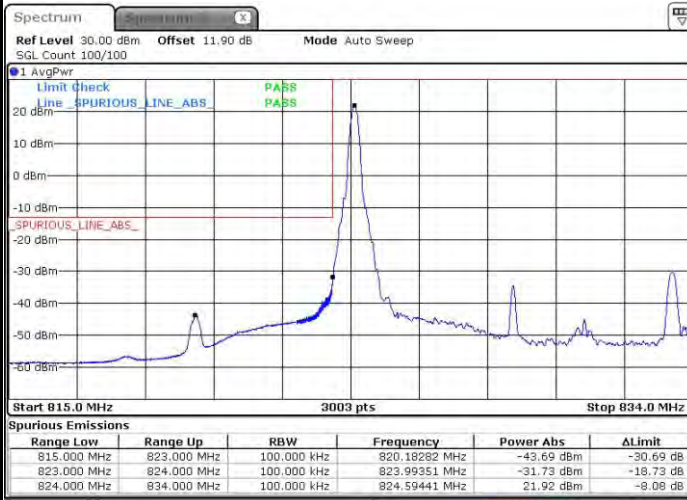


Date: 19.MAY.2015 09:58:00



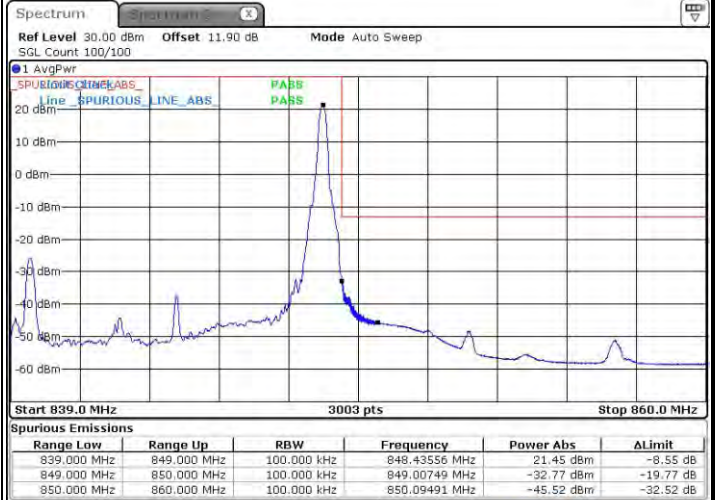
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



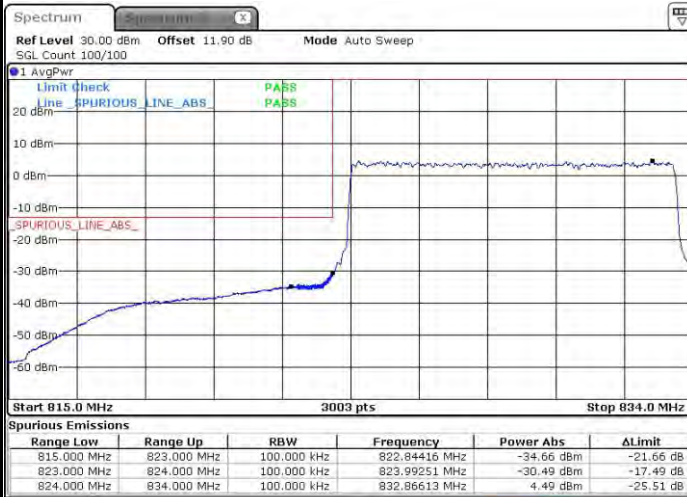
Date: 19.MAY.2015 10:02:20

Highest Band Edge / 1 RB



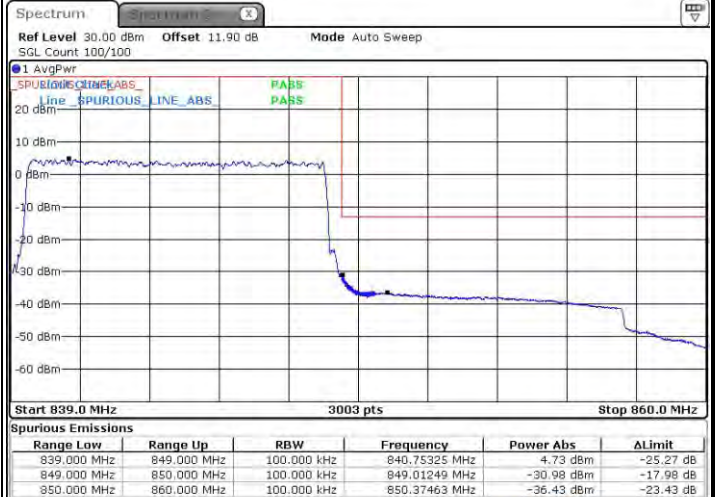
Date: 19.MAY.2015 10:13:12

Lowest Band Edge / Full RB



Date: 19.MAY.2015 10:04:40

Highest Band Edge / Full RB

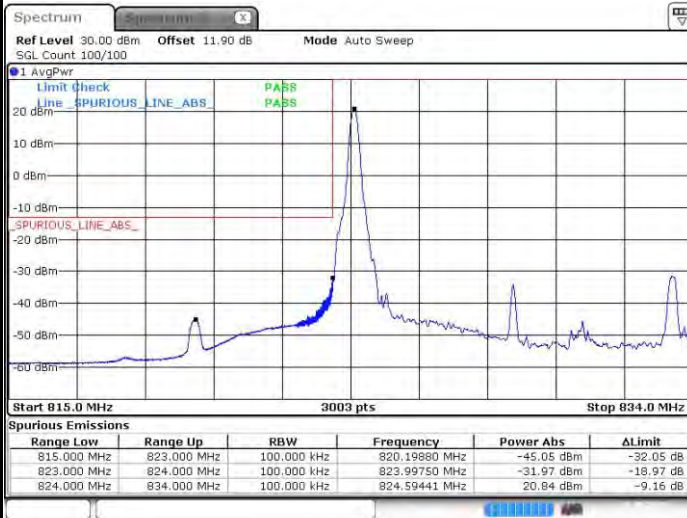


Date: 19.MAY.2015 10:16:32



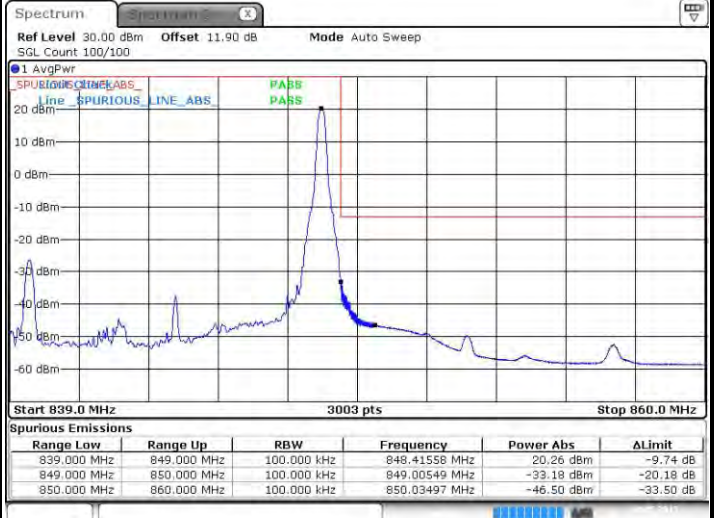
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



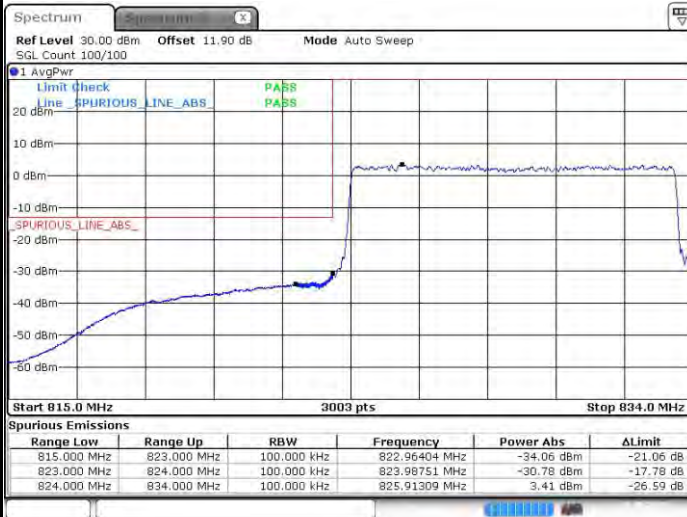
Date: 19.MAY.2015 10:03:30

Highest Band Edge / 1 RB



Date: 19.MAY.2015 10:14:22

Lowest Band Edge / Full RB



Date: 19.MAY.2015 10:05:50

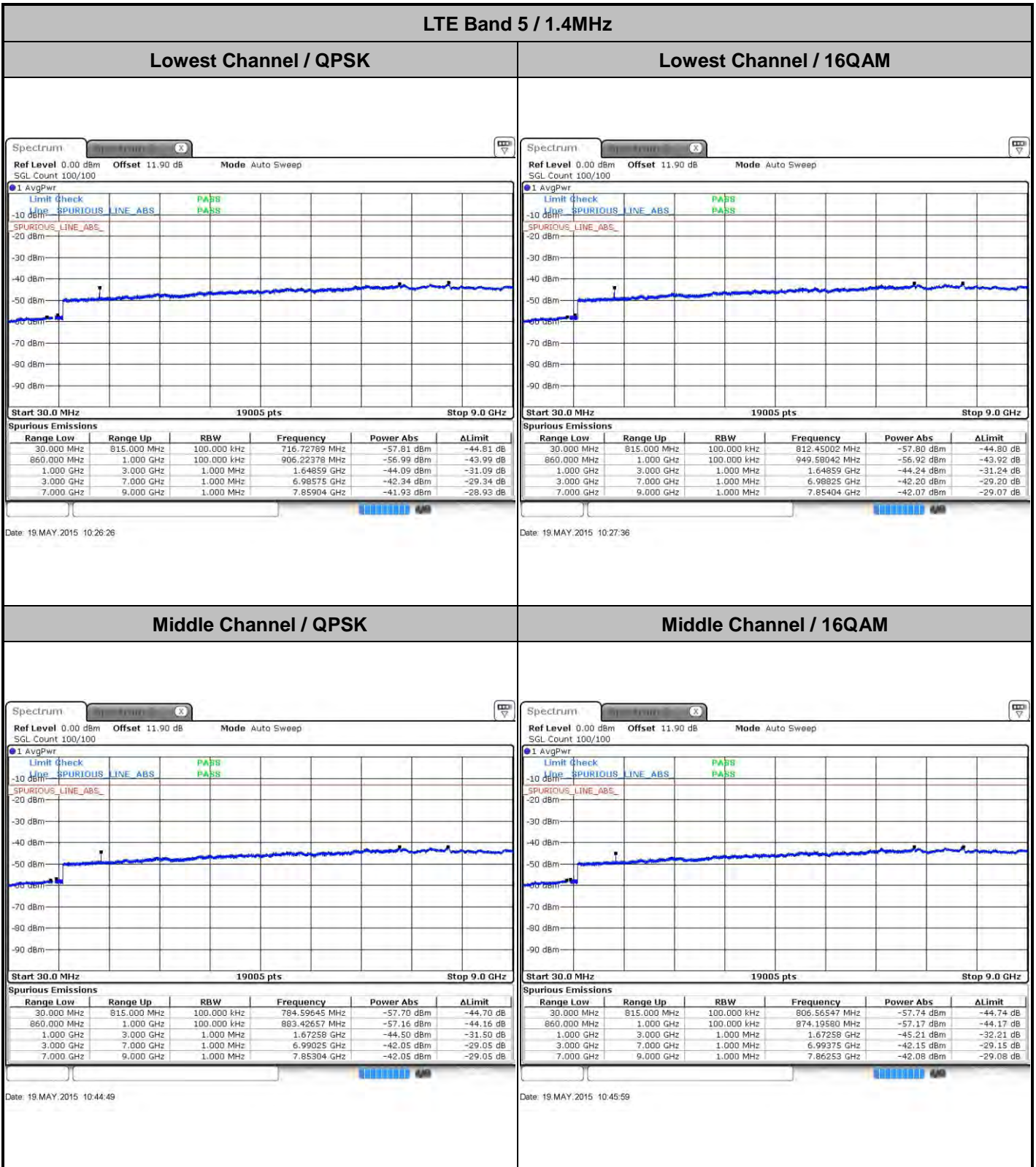
Highest Band Edge / Full RB



Date: 19.MAY.2015 10:16:42

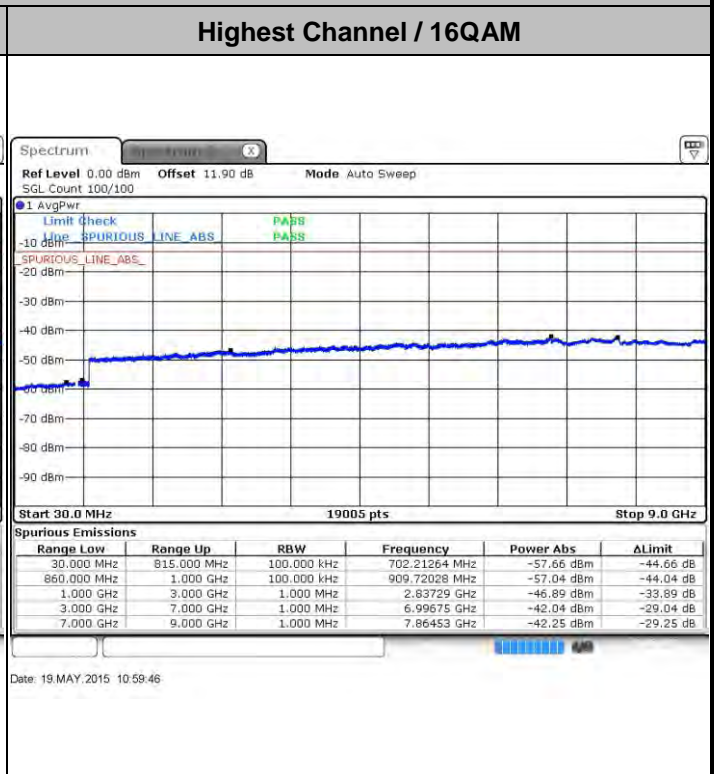
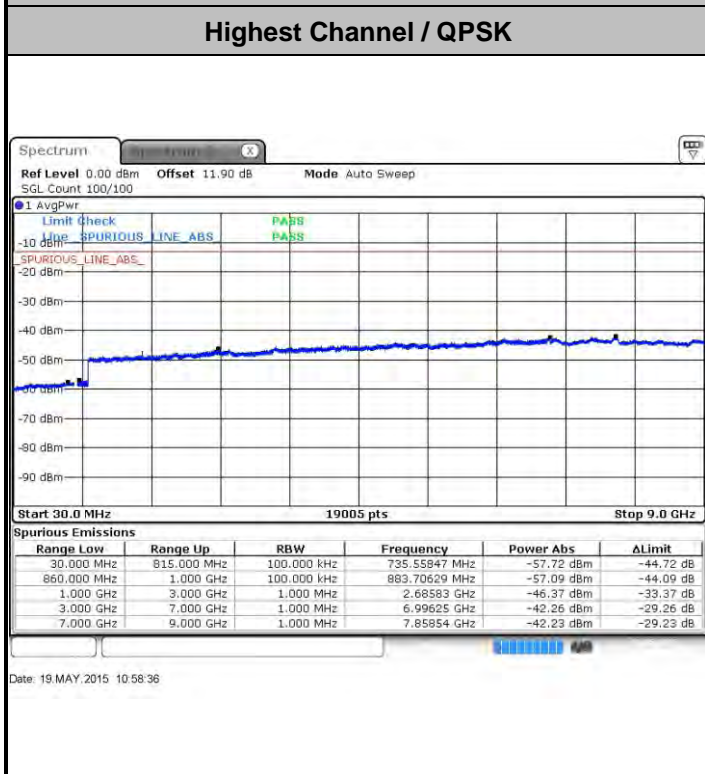


Conducted Spurious Emission

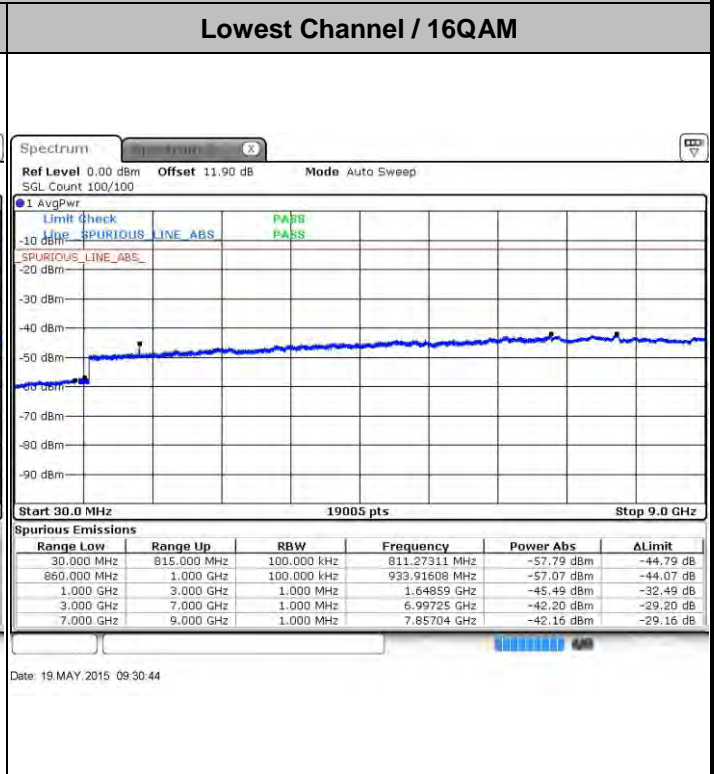
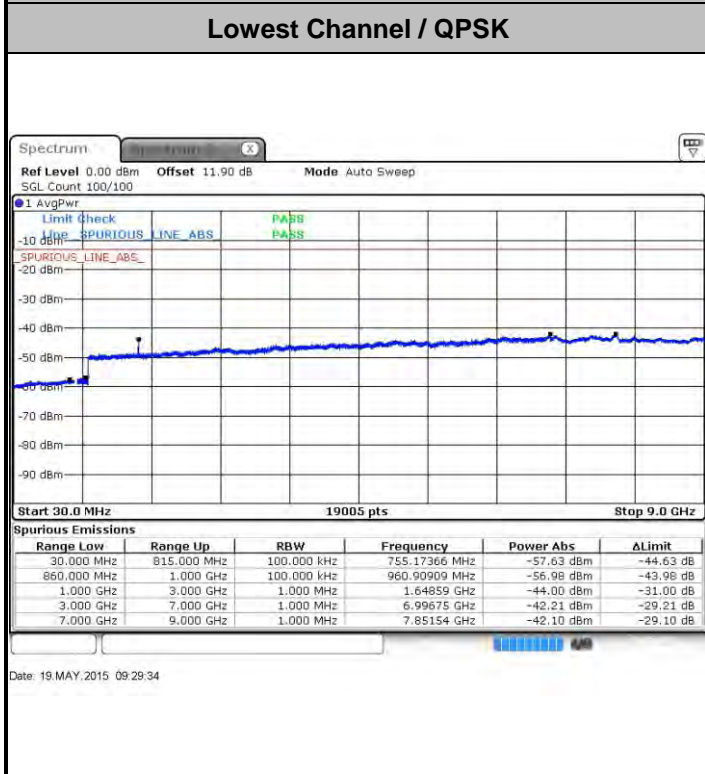




LTE Band 5 / 1.4MHz



LTE Band 5 / 3MHz

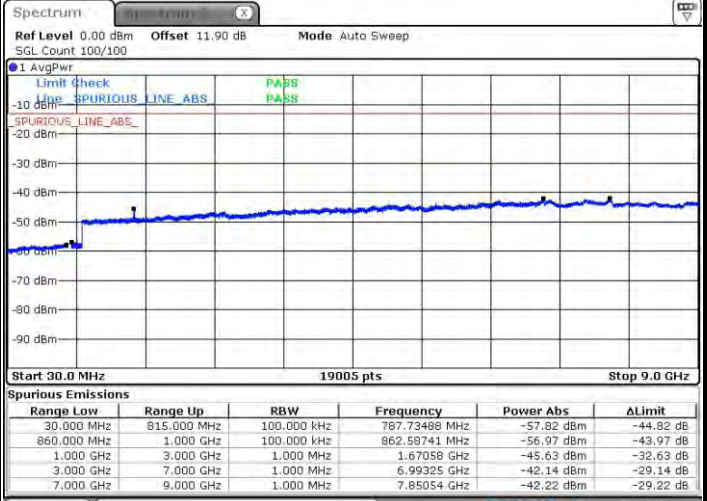
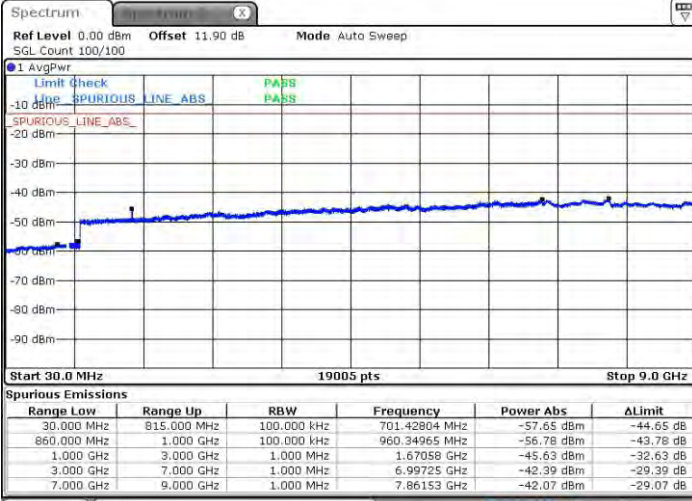




LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

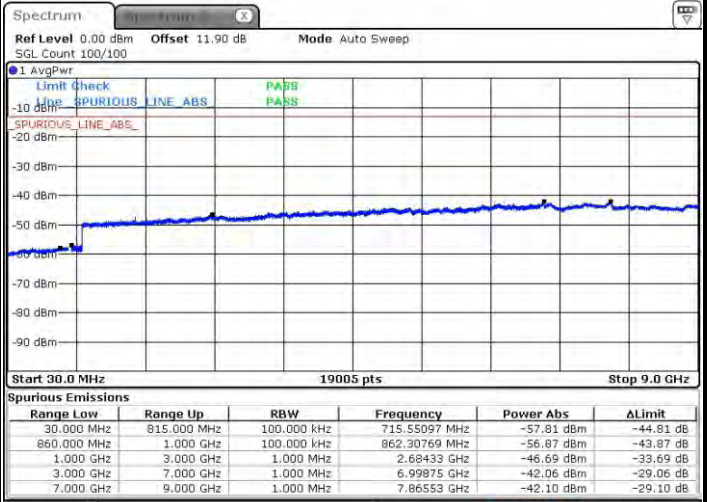
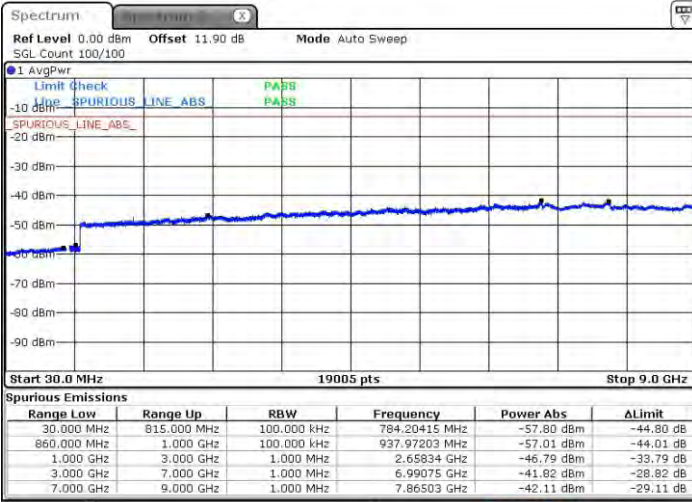


Date: 19.MAY.2015 09:32:42

Date: 19.MAY.2015 09:33:52

Highest Channel / QPSK

Highest Channel / 16QAM



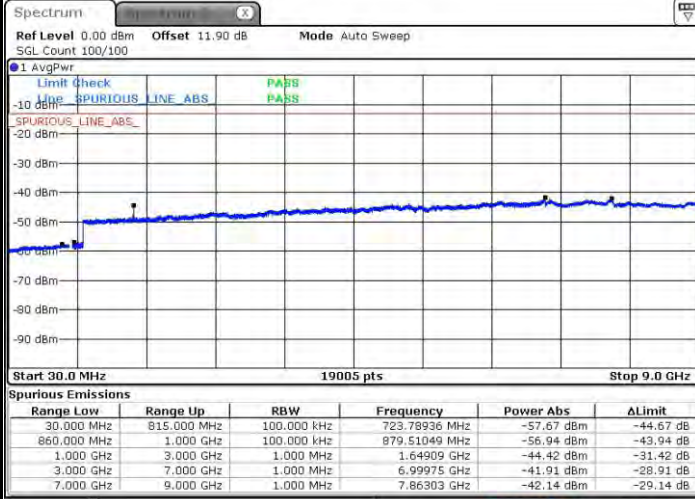
Date: 19.MAY.2015 09:40:28

Date: 19.MAY.2015 09:41:38



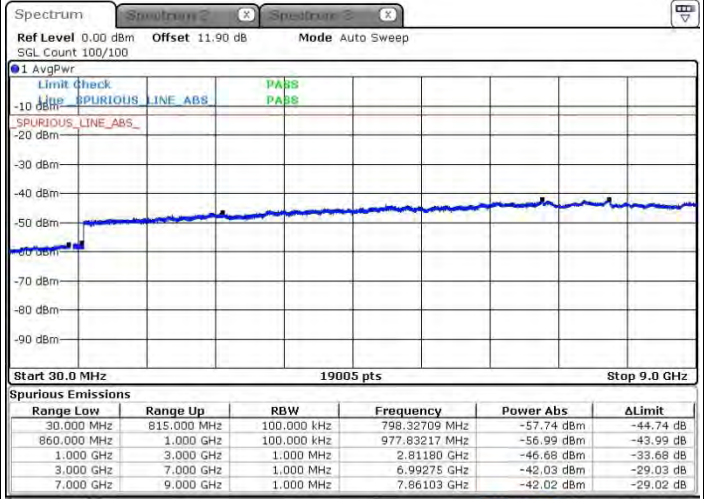
LTE Band 5 / 5MHz

Lowest Channel / QPSK



Date: 19 MAY 2015 09:48:18

Lowest Channel / 16QAM



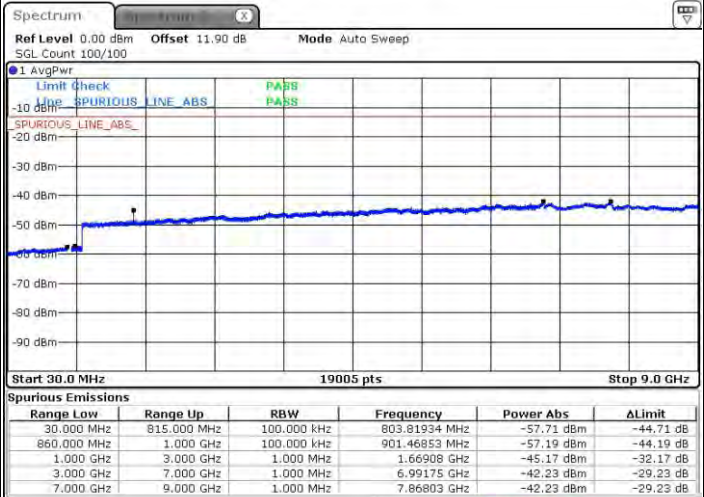
Date: 9 JUN 2015 15:12:21

Middle Channel / QPSK



Date: 19 MAY 2015 09:51:25

Middle Channel / 16QAM



Date: 19 MAY 2015 09:52:35

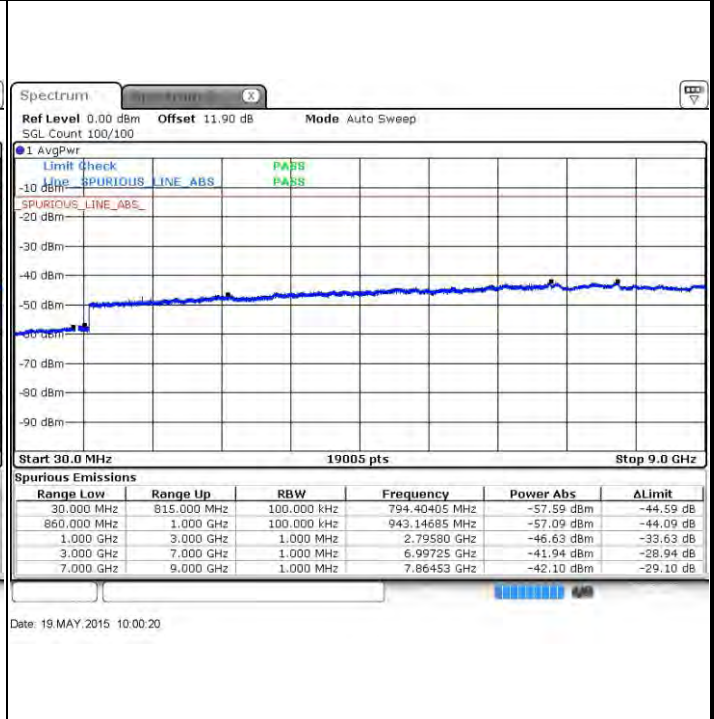


LTE Band 5 / 5MHz

Highest Channel / QPSK



Highest Channel / 16QAM

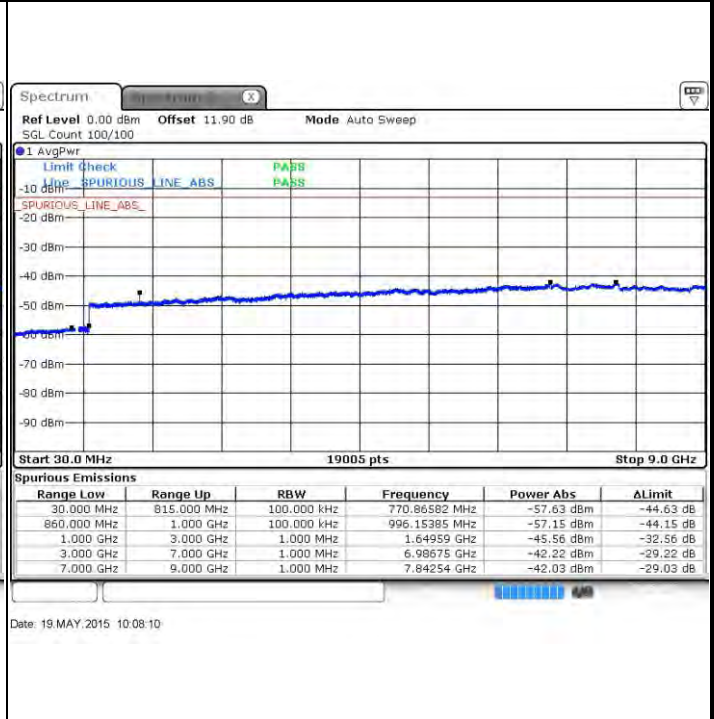


LTE Band 5 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

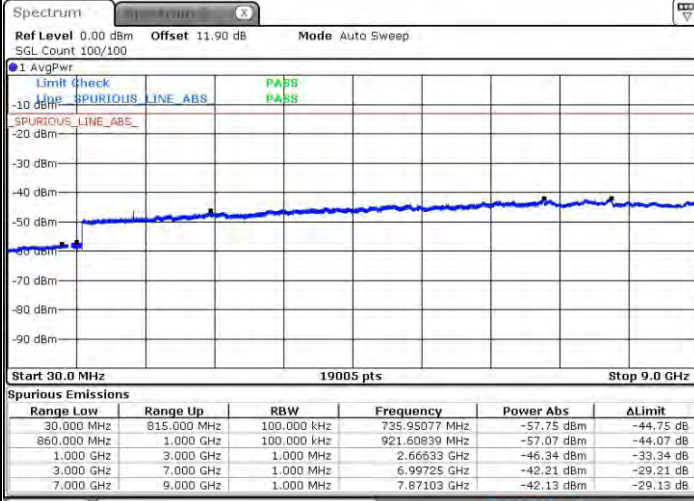




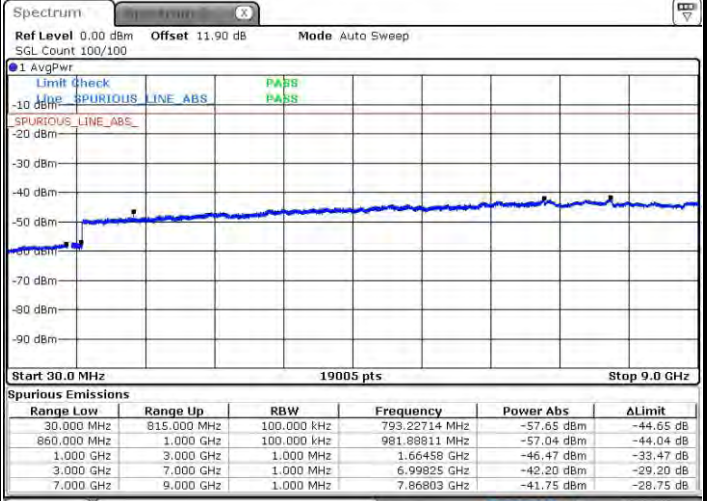
LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



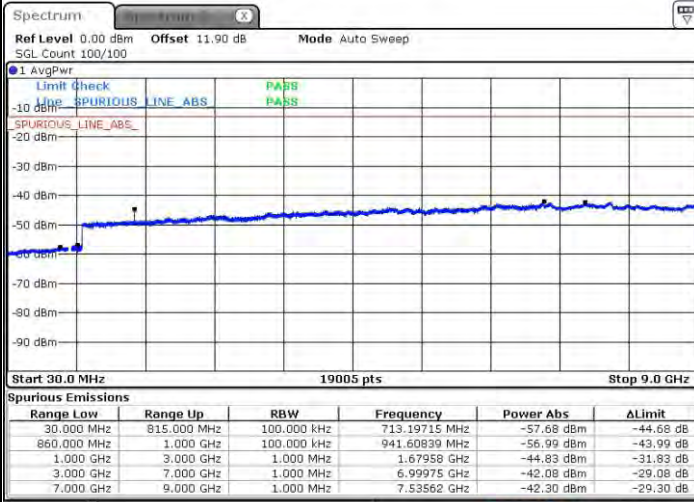
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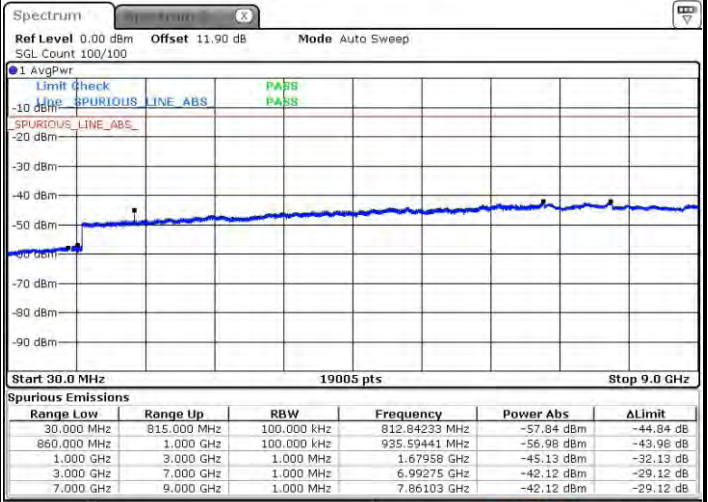
Date: 19.MAY.2015 10:11:16

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.MAY.2015 10:17:53



Date: 19.MAY.2015 10:19:03



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	0.0004	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0030	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0039	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 7

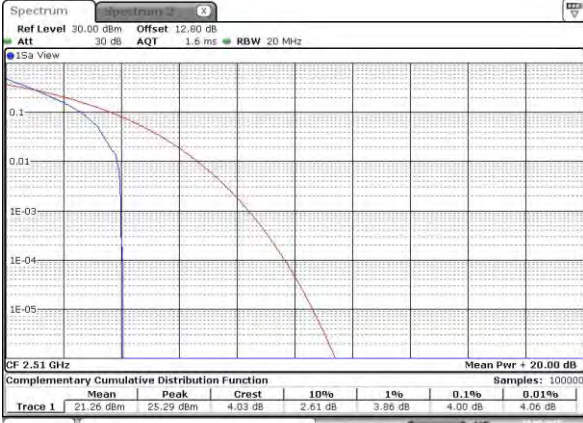
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4	4.58	4.61	5.59	PASS
Middle CH	3.86	4.7	4.61	5.62	
Highest CH	3.86	4.49	4.67	5.42	



LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 19 MAY.2015 06:58:02

Lowest Channel / Full RB



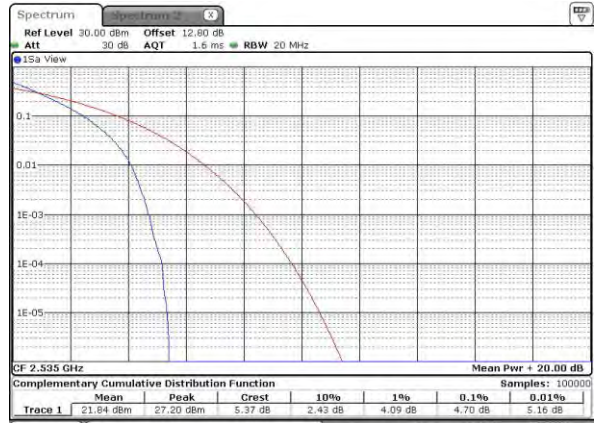
Date: 19 MAY.2015 06:58:22

Middle Channel / 1RB



Date: 19 MAY.2015 06:58:32

Middle Channel / Full RB



Date: 19 MAY.2015 06:58:44

Highest Channel / 1RB



Date: 19 MAY.2015 06:58:55

Highest Channel / Full RB

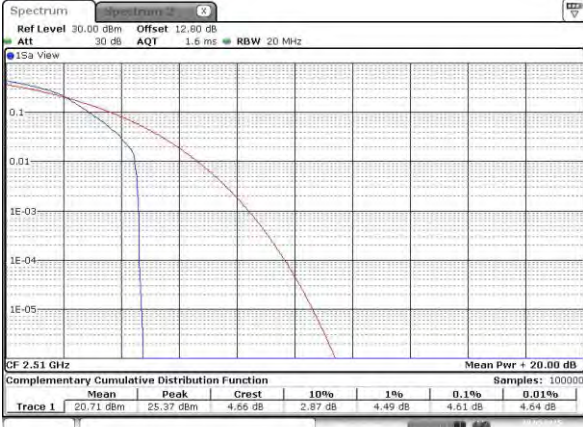


Date: 19 MAY.2015 06:59:07



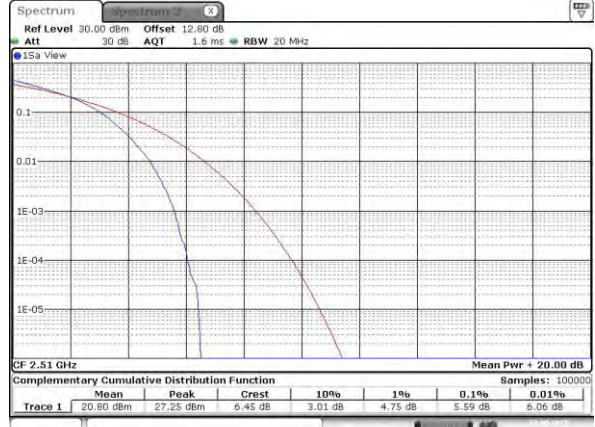
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



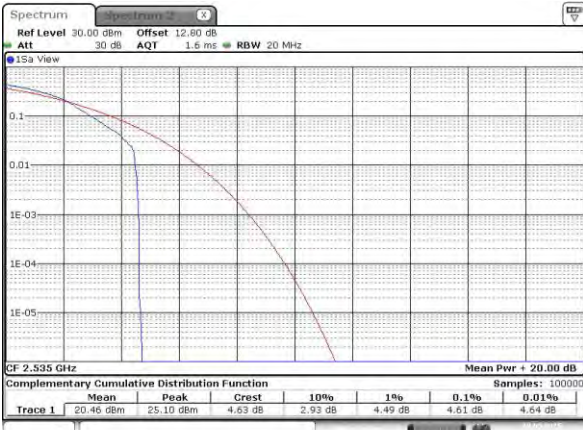
Date: 19 MAY.2015 06:56:51

Lowest Channel / Full RB



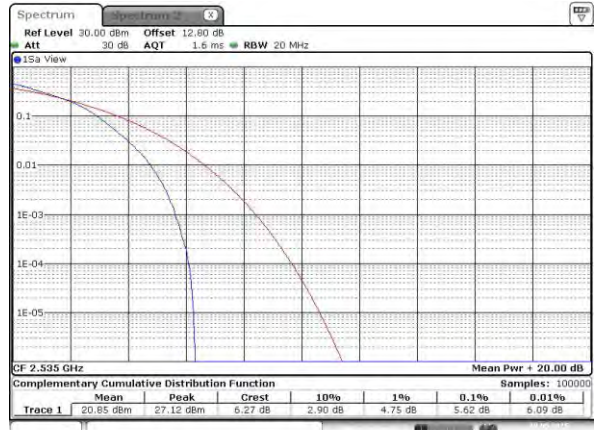
Date: 19 MAY.2015 06:57:06

Middle Channel / 1RB



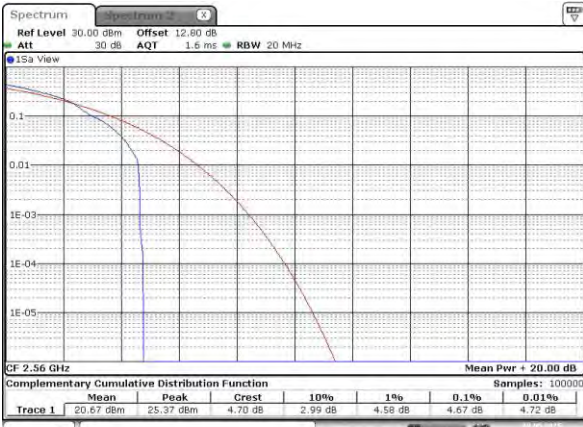
Date: 19 MAY.2015 06:57:17

Middle Channel / Full RB



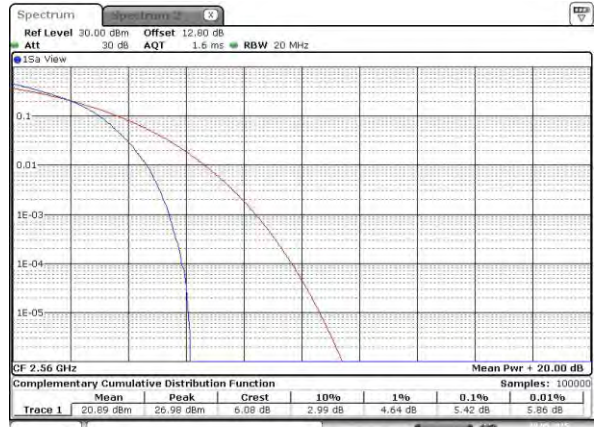
Date: 19 MAY.2015 06:57:28

Highest Channel / 1RB



Date: 19 MAY.2015 06:57:40

Highest Channel / Full RB



Date: 19 MAY.2015 06:57:51



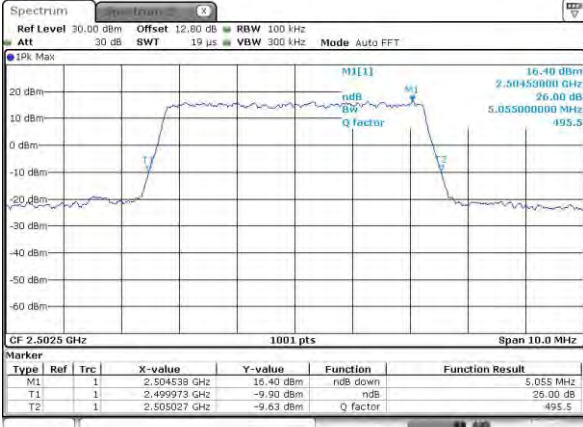
26dB Bandwidth

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	-	-	-	-	5.06	5.05	10.15	9.99	14.63	14.81	20.3	20.46
Middle CH	-	-	-	-	5.07	5.06	10.03	9.97	14.75	14.81	20.5	20.54
Highest CH	-	-	-	-	5.07	5.06	9.99	10.05	14.66	14.63	20.42	20.62



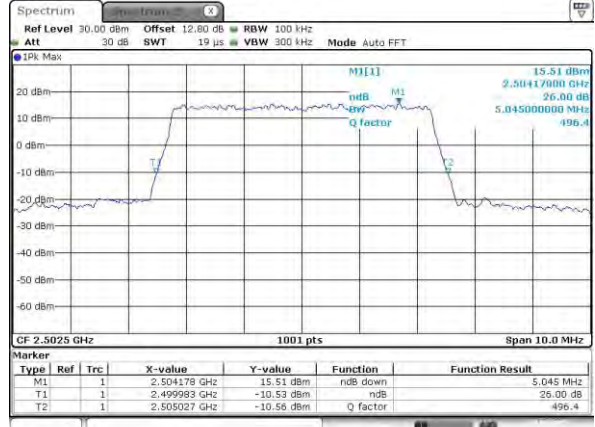
LTE Band 7

Lowest Channel / 5MHz / QPSK



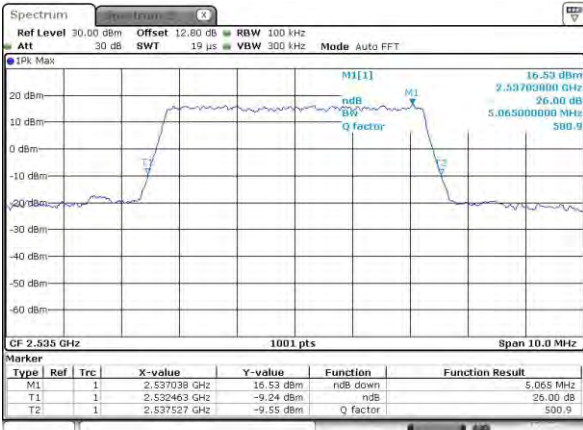
Date: 19 MAY 2015 05:41:22

Lowest Channel / 5MHz / 16QAM



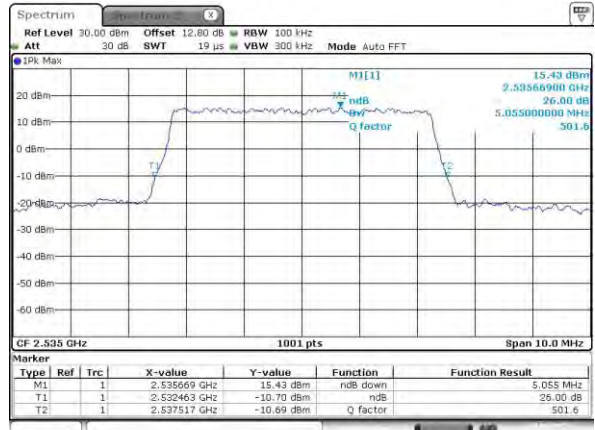
Date: 19 MAY 2015 05:41:35

Middle Channel / 5MHz / QPSK



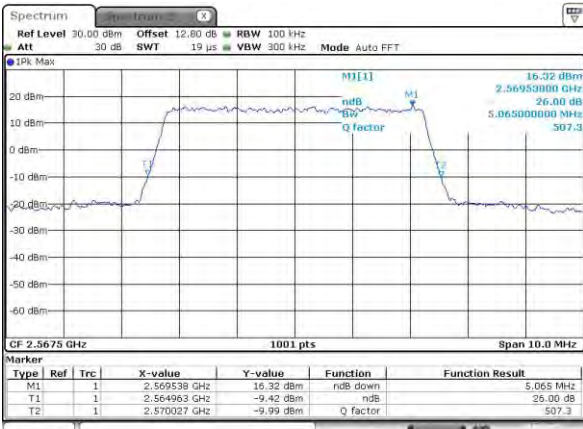
Date: 19 MAY 2015 05:48:08

Middle Channel / 5MHz / 16QAM



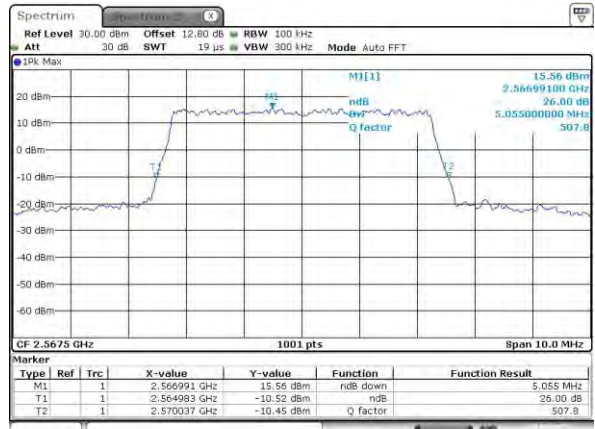
Date: 19 MAY 2015 05:49:21

Highest Channel / 5MHz / QPSK



Date: 19 MAY 2015 05:52:14

Highest Channel / 5MHz / 16QAM

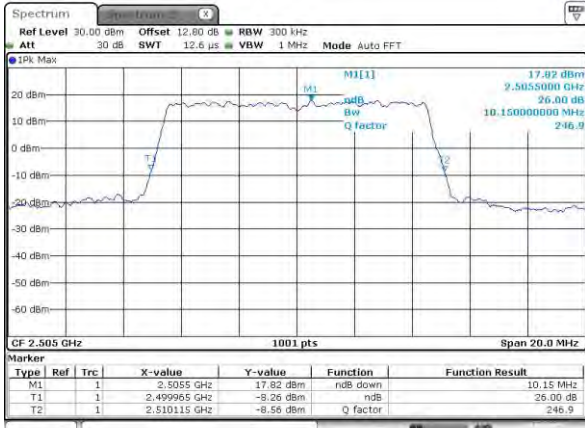


Date: 19 MAY 2015 05:52:27



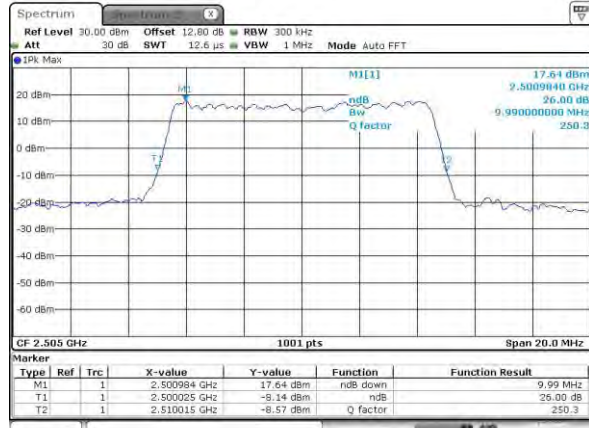
LTE Band 7

Lowest Channel / 10MHz / QPSK



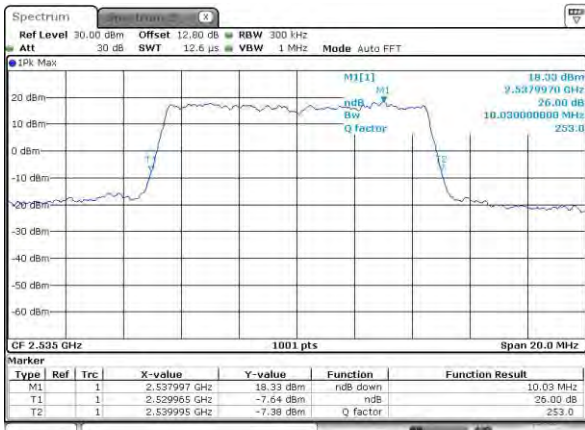
Date: 19 MAY 2015 06:00:04

Lowest Channel / 10MHz / 16QAM



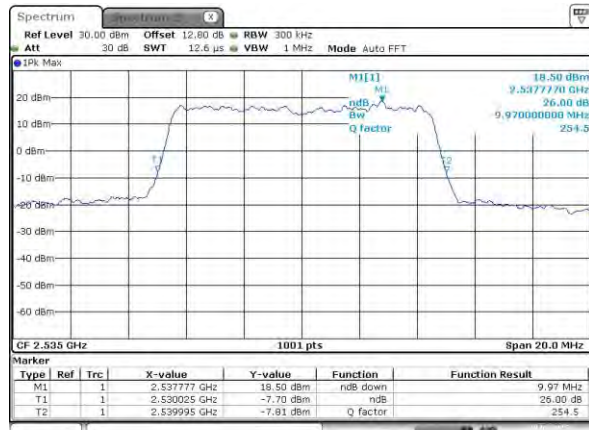
Date: 19 MAY 2015 06:00:17

Middle Channel / 10MHz / QPSK



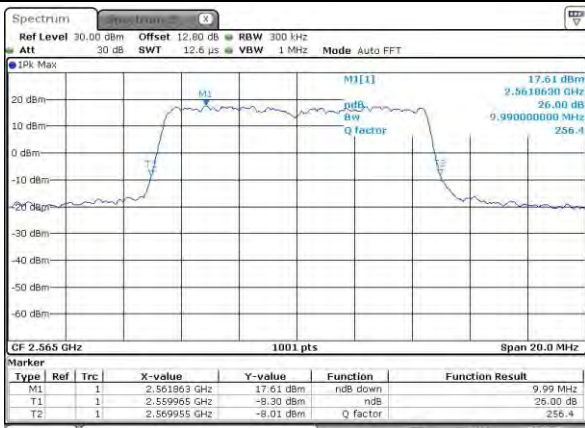
Date: 19 MAY 2015 06:07:49

Middle Channel / 10MHz / 16QAM



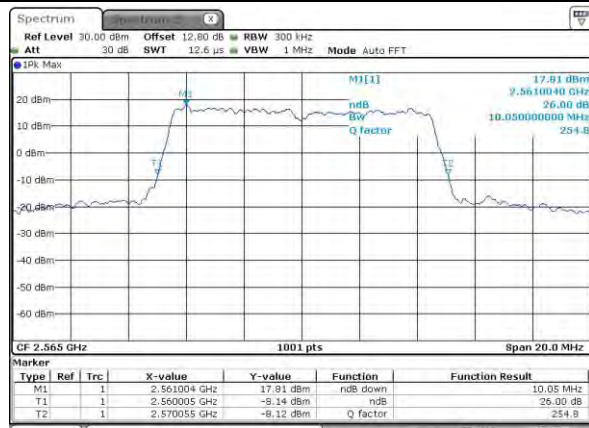
Date: 19 MAY 2015 06:08:02

Highest Channel / 10MHz / QPSK



Date: 19 MAY 2015 06:10:55

Highest Channel / 10MHz / 16QAM

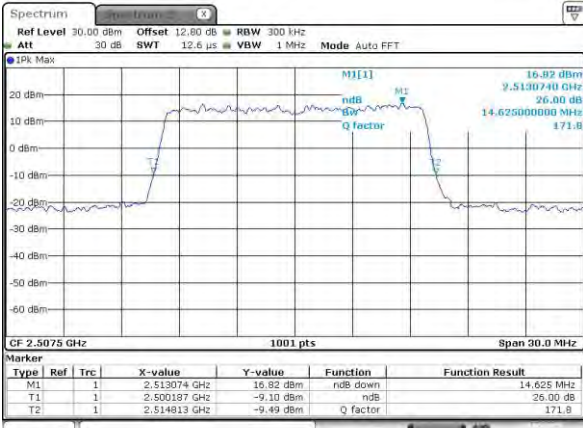


Date: 19 MAY 2015 06:11:08



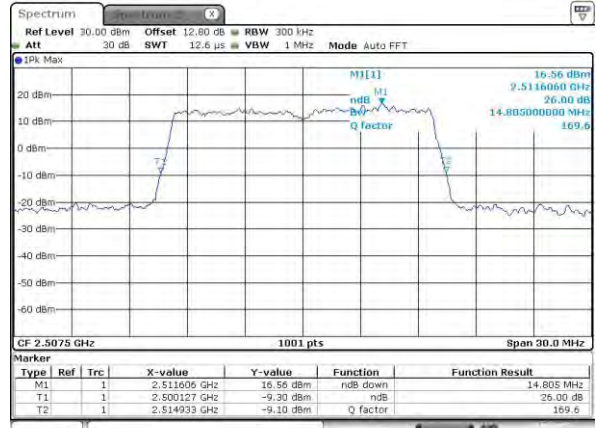
LTE Band 7

Lowest Channel / 15MHz / QPSK



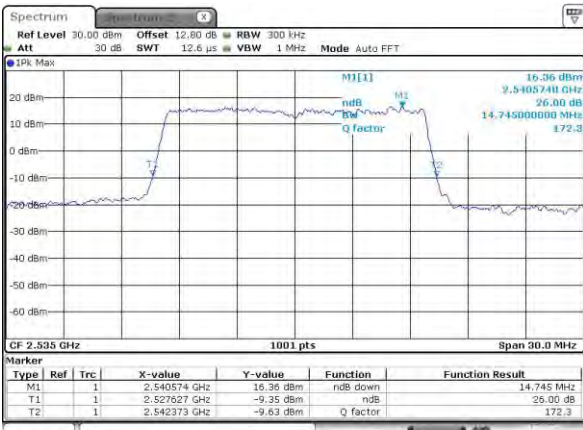
Date: 19 MAY 2015 06:18:45

Lowest Channel / 15MHz / 16QAM



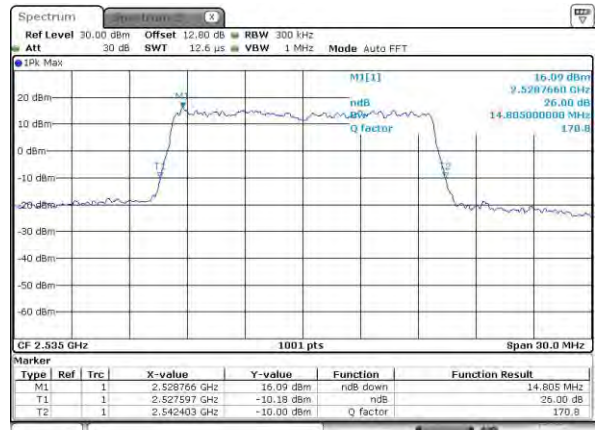
Date: 19 MAY 2015 06:18:57

Middle Channel / 15MHz / QPSK



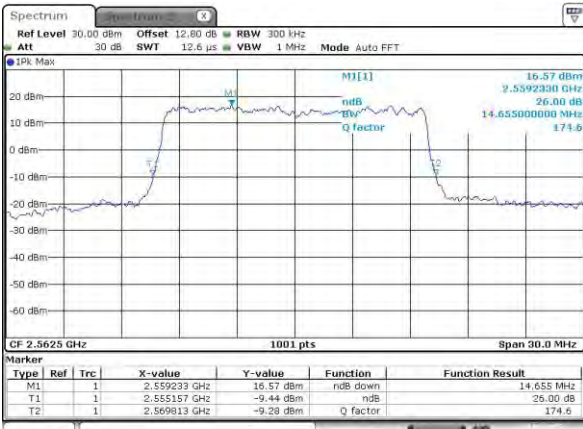
Date: 19 MAY 2015 06:28:30

Middle Channel / 15MHz / 16QAM



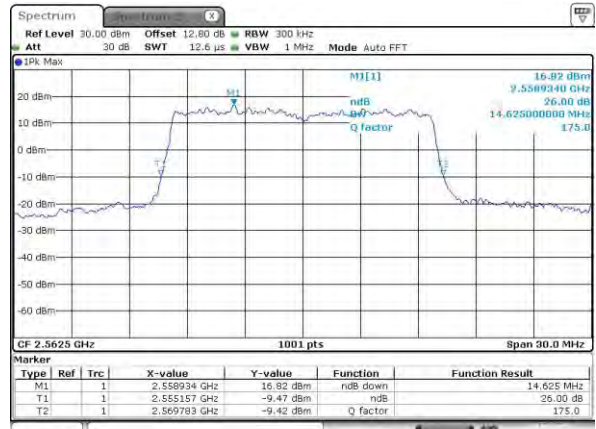
Date: 19 MAY 2015 06:28:42

Highest Channel / 15MHz / QPSK



Date: 19 MAY 2015 06:28:36

Highest Channel / 15MHz / 16QAM

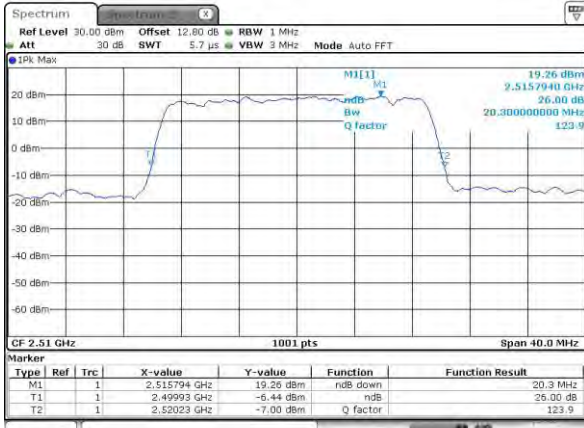


Date: 19 MAY 2015 06:29:49



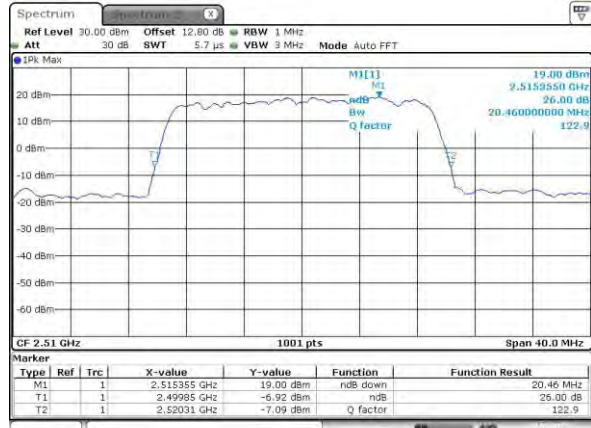
LTE Band 7

Lowest Channel / 20MHz / QPSK



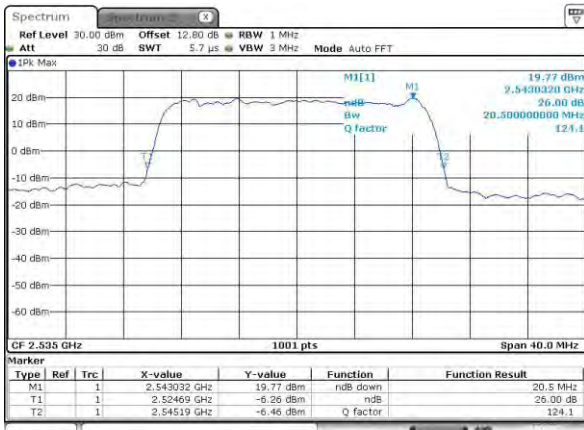
Date: 19 MAY 2015 06:37:26

Lowest Channel / 20MHz / 16QAM



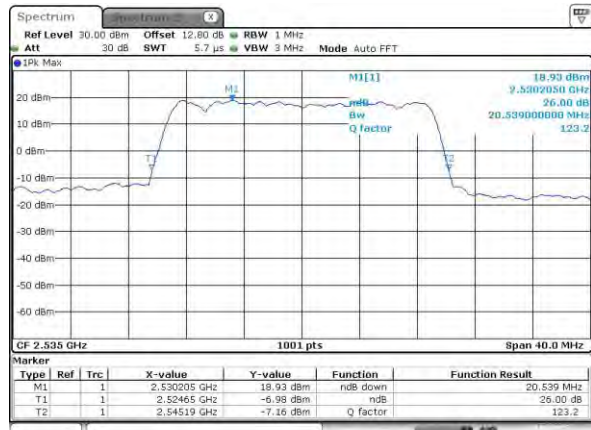
Date: 19 MAY 2015 06:37:38

Middle Channel / 20MHz / QPSK



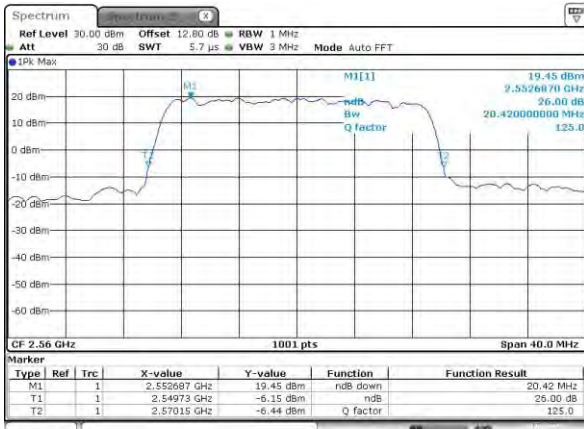
Date: 19 MAY 2015 06:45:10

Middle Channel / 20MHz / 16QAM



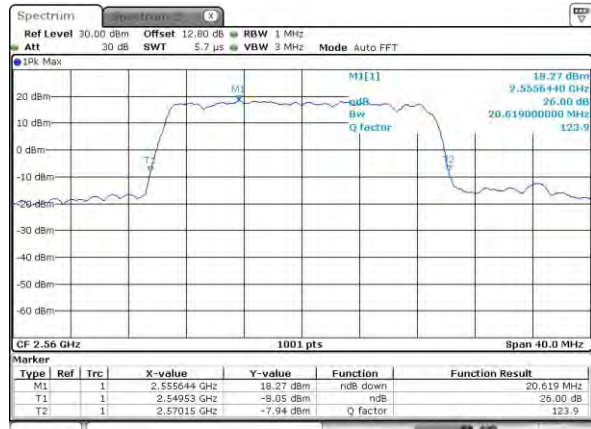
Date: 19 MAY 2015 06:45:23

Highest Channel / 20MHz / QPSK



Date: 19 MAY 2015 06:48:16

Highest Channel / 20MHz / 16QAM



Date: 19 MAY 2015 06:48:29