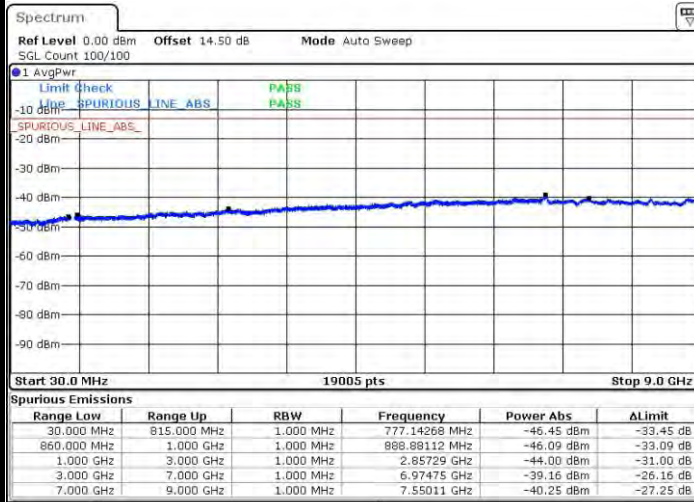




LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 19.APR.2015 16:42:43

Highest Channel / 16QAM



Date: 19.APR.2015 16:44:03

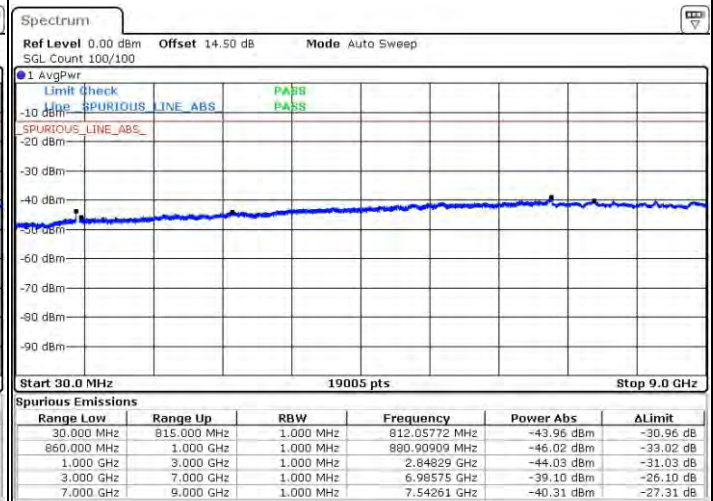
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 19.APR.2015 16:52:45

Lowest Channel / 16QAM

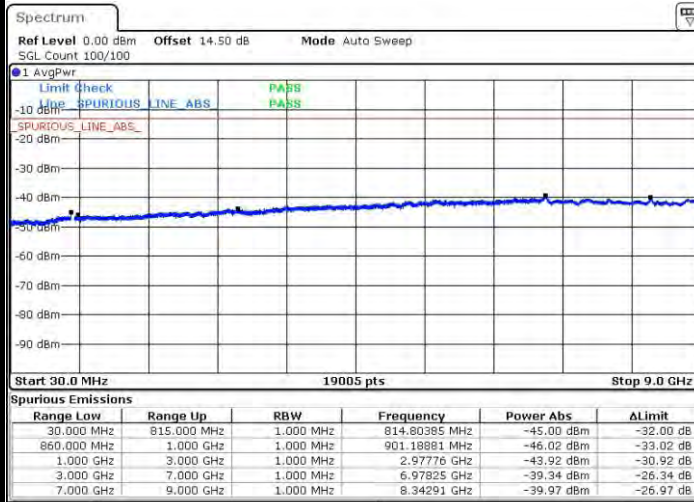


Date: 19.APR.2015 16:54:04



LTE Band 5 / 10MHz

Middle Channel / QPSK



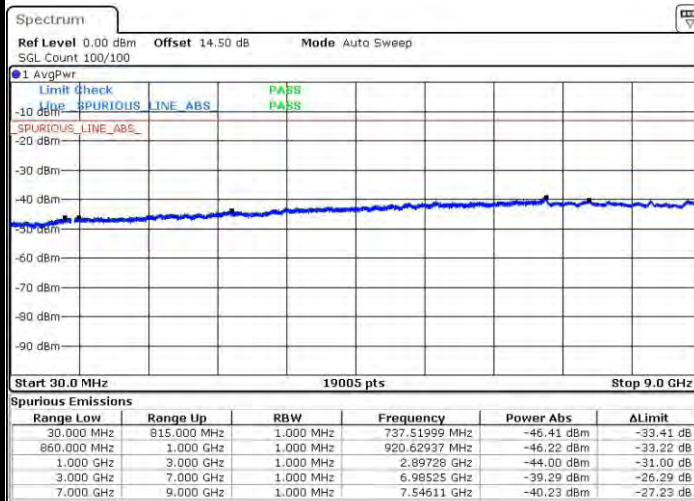
Date: 19.APR.2015 16:56:08

Middle Channel / 16QAM



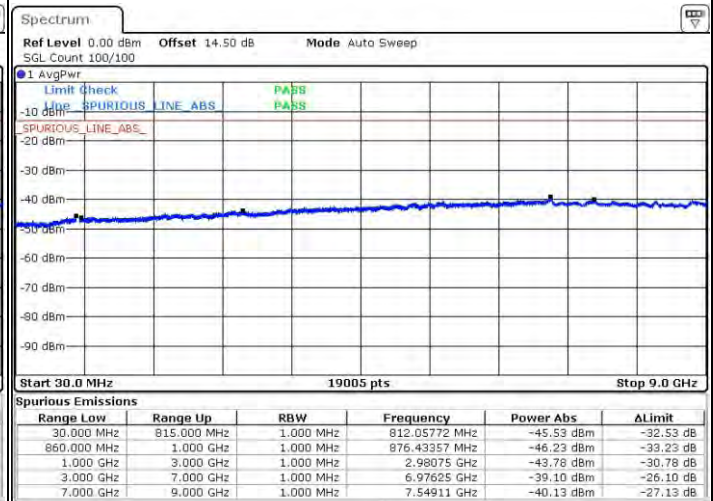
Date: 19.APR.2015 16:57:28

Highest Channel / QPSK



Date: 19.APR.2015 17:06:11

Highest Channel / 16QAM



Date: 19.APR.2015 17:07:30

**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	0.0000	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0108	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0120	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0132	
-20	Normal Voltage	0.0120	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0108	

Note:

1. Normal Voltage = 3.3V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage =4.4 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 7

Conducted Output Power(Average power)

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.85	22.28	22.49
5	1	12		21.91	22.30	22.44
5	1	24		21.75	22.13	22.36
5	12	0		20.94	21.35	21.60
5	12	6		20.72	21.34	21.54
5	12	11		20.74	21.26	21.55
5	25	0		20.89	21.29	21.54
5	1	0	16-QAM	20.80	21.15	21.38
5	1	12		20.75	21.09	21.28
5	1	24		20.64	21.04	21.23
5	12	0		20.27	20.69	20.94
5	12	6		20.32	20.71	20.88
5	12	11		20.01	20.56	20.87
5	25	0		20.20	20.61	20.85
10	1	0	QPSK	22.14	22.58	22.81
10	1	24		21.87	22.35	22.51
10	1	49		21.78	22.27	22.53
10	25	0		21.10	21.48	21.73
10	25	12		20.96	21.29	21.55
10	25	24		20.75	21.31	21.56
10	50	0		20.94	21.30	21.58
10	1	0	16-QAM	21.23	21.29	21.68
10	1	24		21.22	21.48	22.01
10	1	49		21.03	21.67	21.37
10	25	0		20.41	20.74	21.00
10	25	12		20.20	20.56	20.81
10	25	24		20.03	20.59	20.87
10	50	0		20.33	20.67	20.98



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.54	22.61	23.18
15	1	37		22.04	22.34	22.81
15	1	74		22.09	22.35	22.60
15	36	0		21.34	21.67	21.72
15	36	18		21.02	21.41	21.64
15	36	37		21.03	21.29	21.65
15	75	0		21.15	21.52	21.79
15	1	0	16-QAM	21.55	21.90	22.01
15	1	37		21.03	21.27	21.67
15	1	74		20.88	21.37	21.60
15	36	0		20.59	20.95	21.36
15	36	18		20.30	20.67	20.85
15	36	37		20.26	20.65	20.96
15	75	0		20.36	20.78	21.07
20	1	0	QPSK	22.71	22.87	22.96
20	1	49		22.22	22.23	22.35
20	1	99		22.24	22.33	22.36
20	50	0		21.54	21.74	21.94
20	50	24		21.03	21.37	21.65
20	50	49		21.14	21.35	21.65
20	100	0		21.39	21.63	21.83
20	1	0	16-QAM	21.88	22.10	22.56
20	1	49		21.09	21.35	21.36
20	1	99		21.15	21.26	21.69
20	50	0		20.72	20.95	21.22
20	50	24		20.31	20.69	20.88
20	50	49		20.36	20.70	20.84
20	100	0		20.60	21.02	21.00

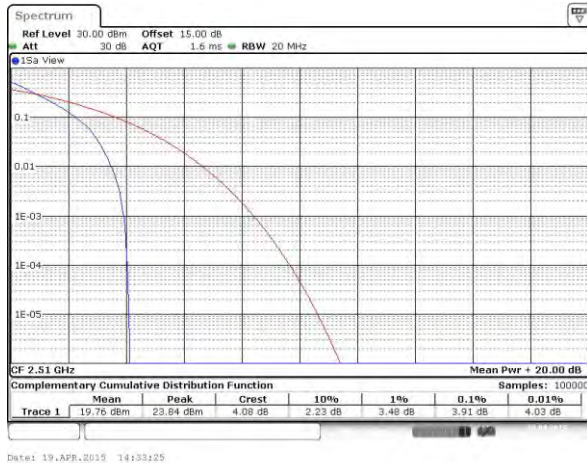
**Peak-to-Average Ratio**

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	3.91	4.64	4.58	5.57	PASS
Middle CH	3.77	4.70	4.49	5.68	
Highest CH	3.36	4.32	4.52	5.19	

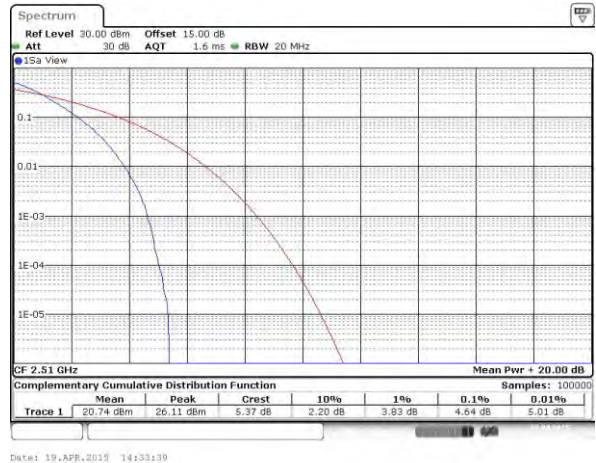


LTE Band 7 / 20MHz / QPSK

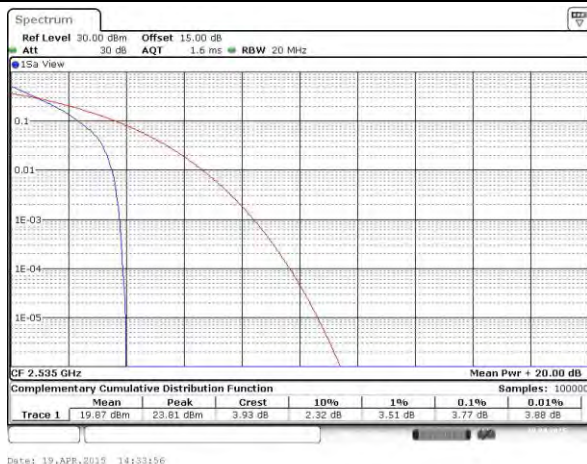
Lowest Channel / 1RB



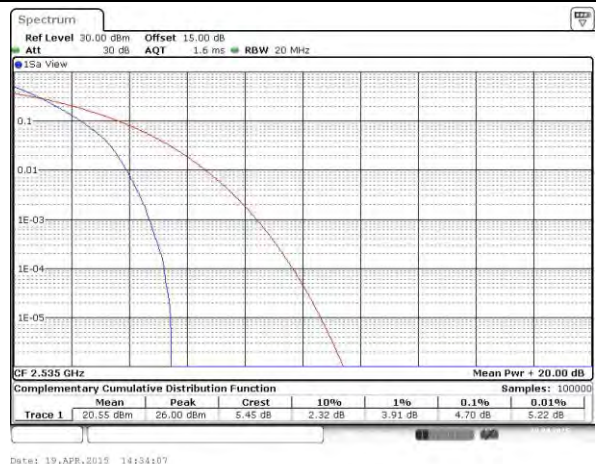
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



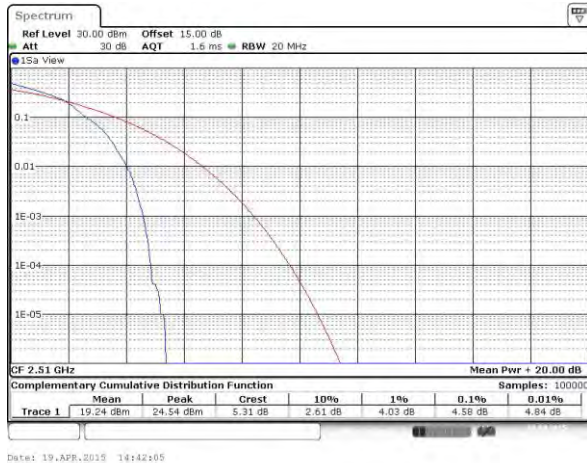
Highest Channel / Full RB



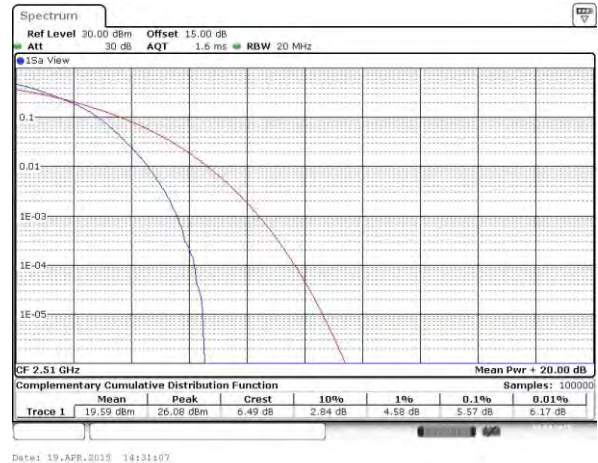


LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



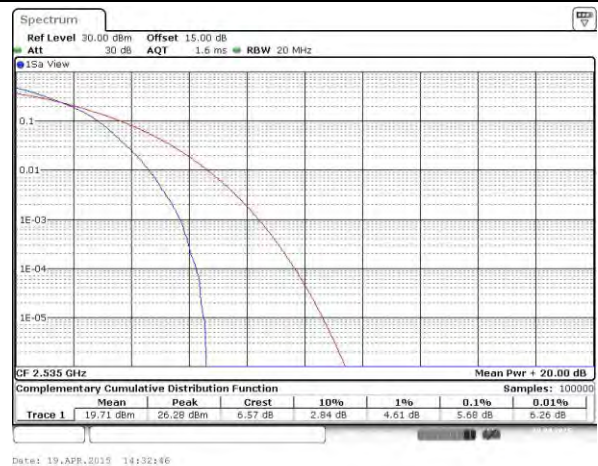
Lowest Channel / Full RB



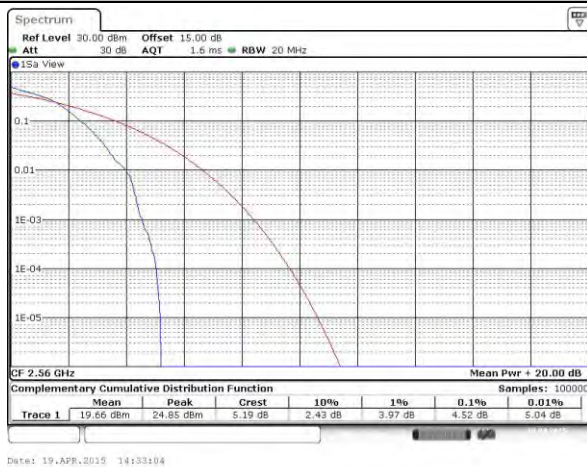
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



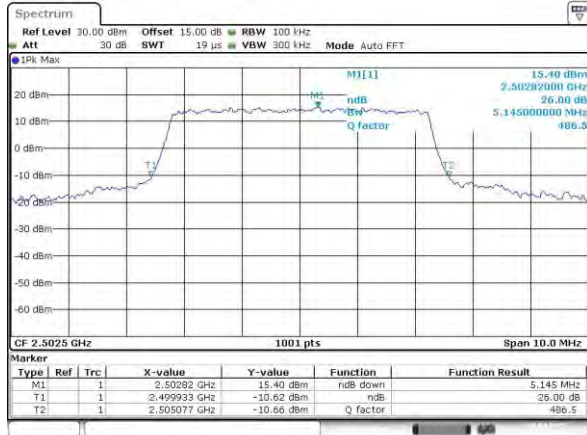
**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.15	5.17	10.61	10.21	15.73	15.58	21.86	20.98
Middle CH	-	-	-	-	5.18	5.11	10.55	10.55	16.03	15.94	21.42	21.22
Highest CH	-	-	-	-	5.32	5.27	10.63	10.41	15.58	16.09	21.30	21.42

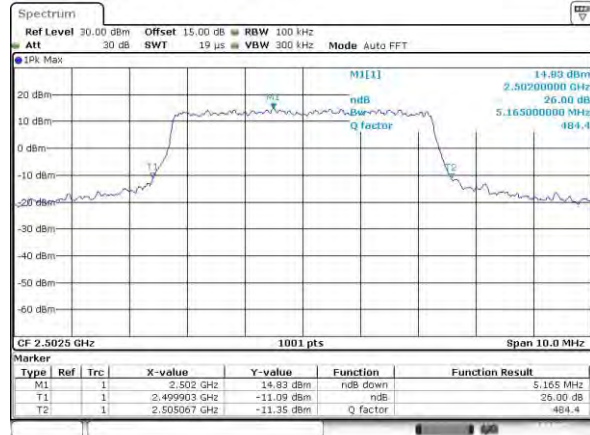


LTE Band 7

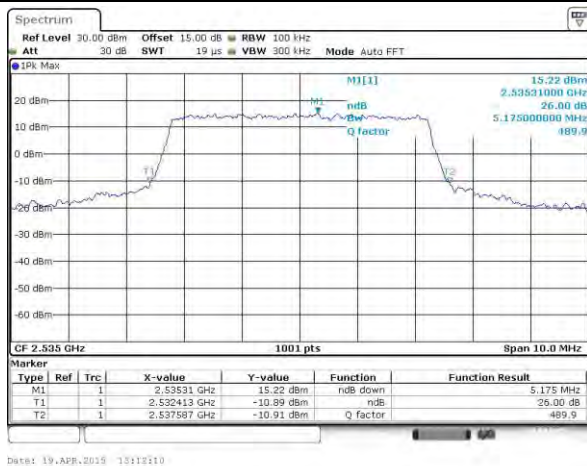
Lowest Channel / 5MHz / QPSK



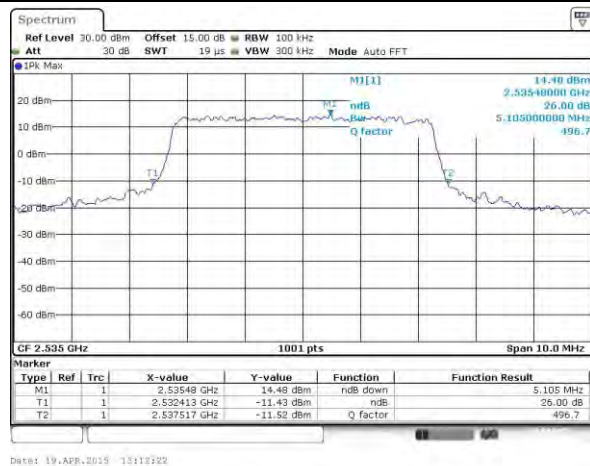
Lowest Channel / 5MHz / 16QAM



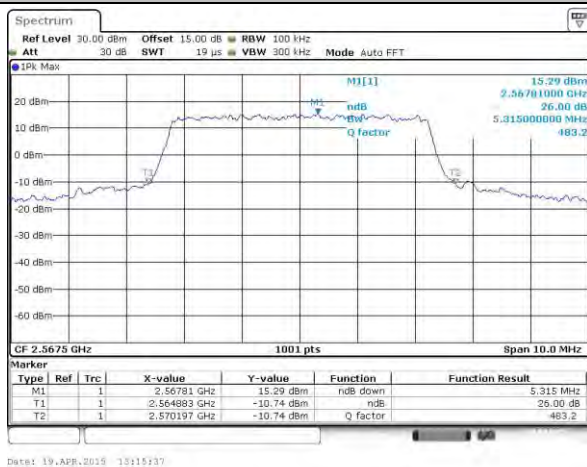
Middle Channel / 5MHz / QPSK



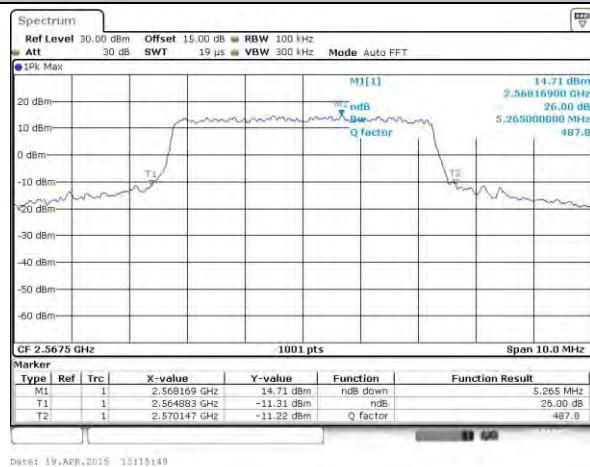
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



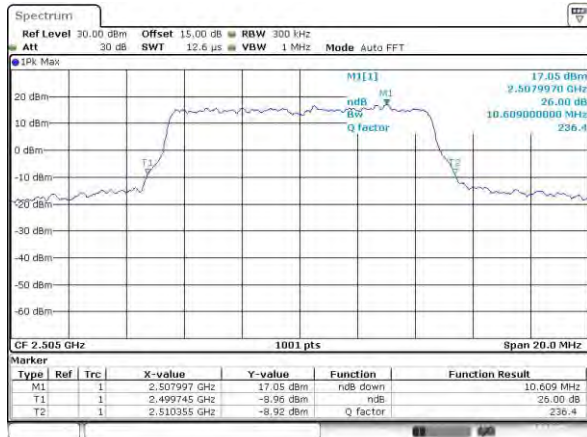
Highest Channel / 5MHz / 16QAM



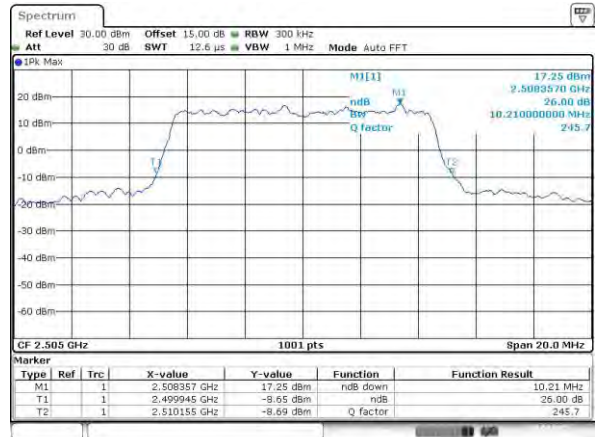


LTE Band 7

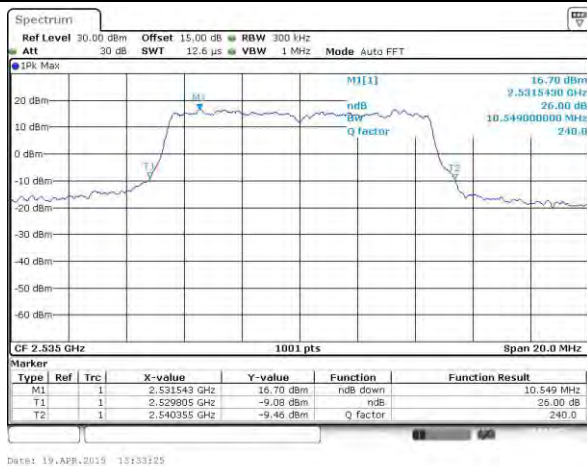
Lowest Channel / 10MHz / QPSK



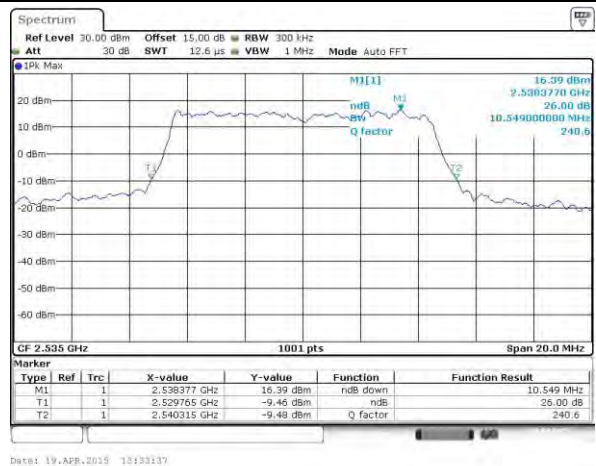
Lowest Channel / 10MHz / 16QAM



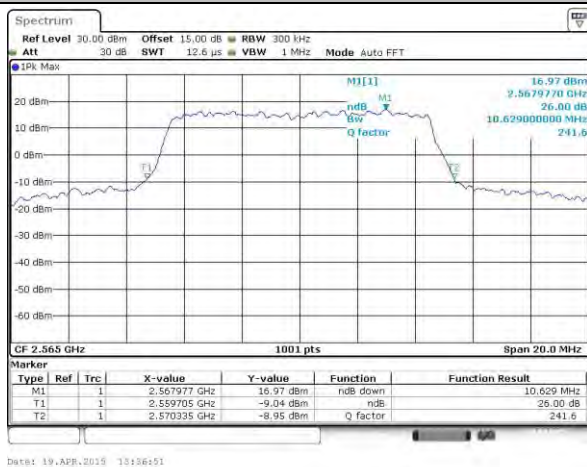
Middle Channel / 10MHz / QPSK



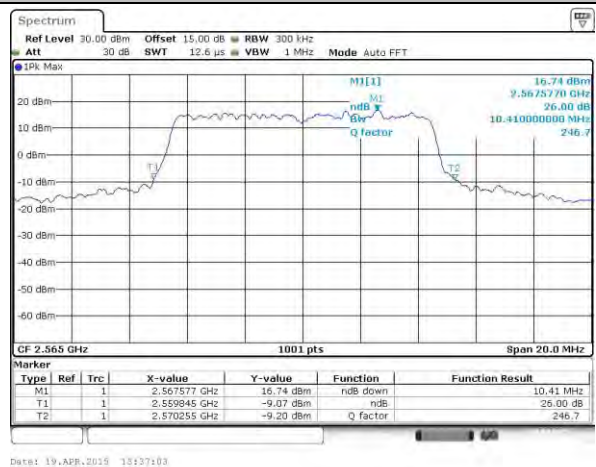
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



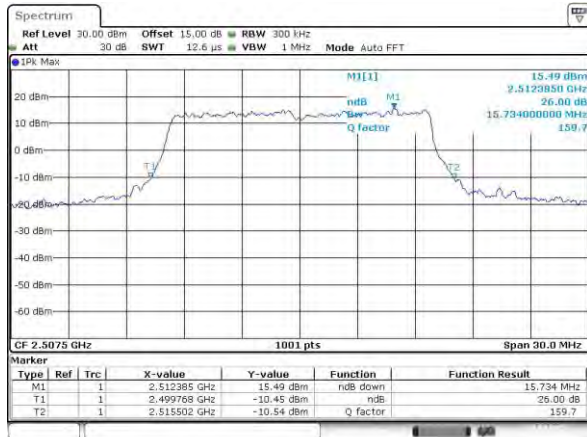
Highest Channel / 10MHz / 16QAM



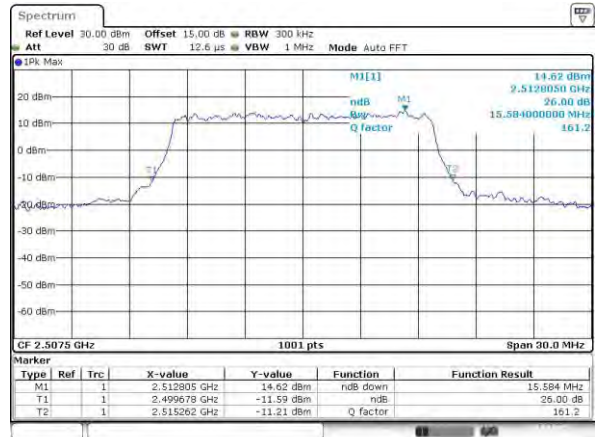


LTE Band 7

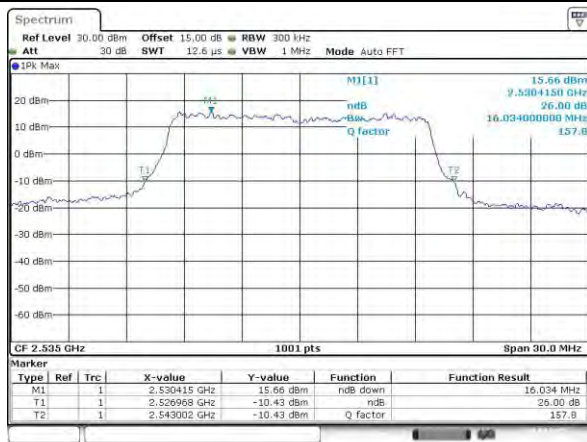
Lowest Channel / 15MHz / QPSK



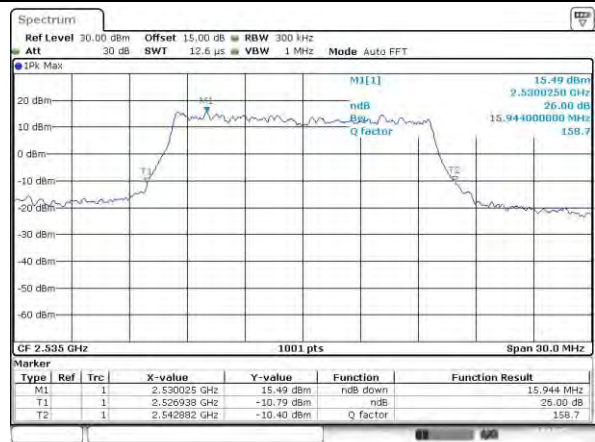
Lowest Channel / 15MHz / 16QAM



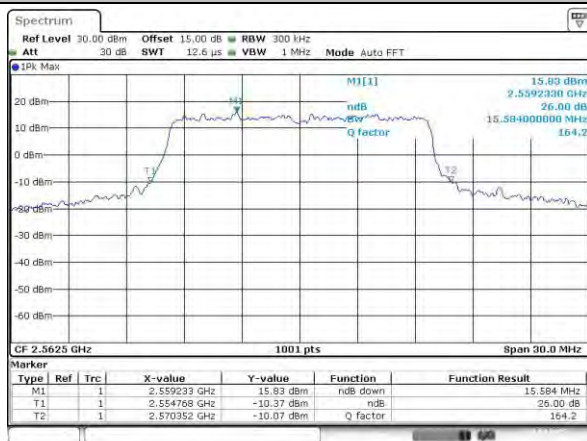
Middle Channel / 15MHz / QPSK



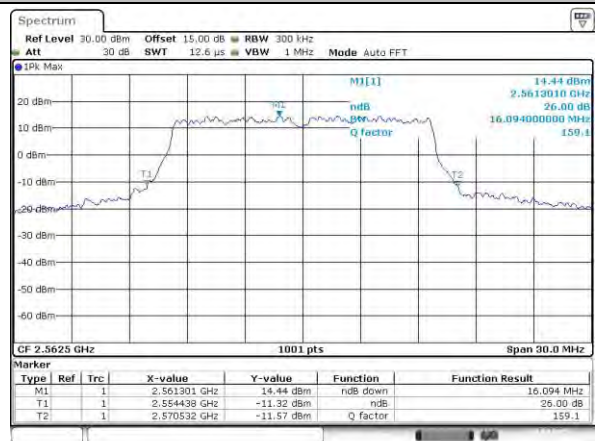
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



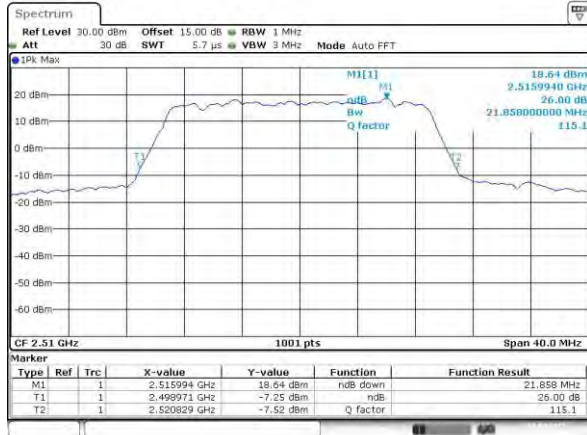
Highest Channel / 15MHz / 16QAM



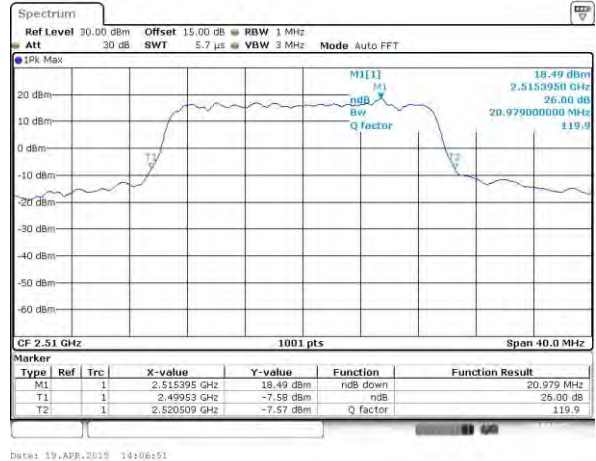


LTE Band 7

Lowest Channel / 20MHz / QPSK



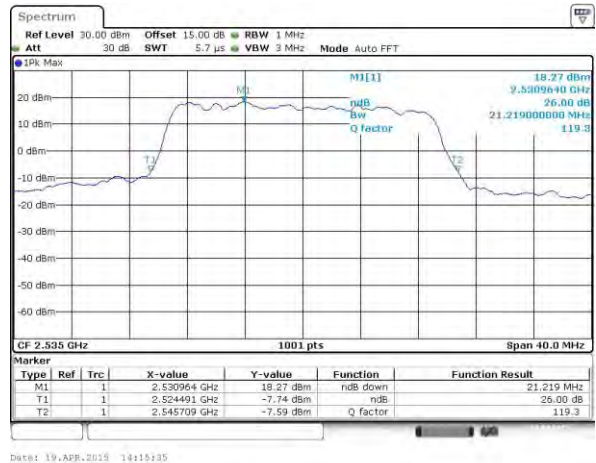
Lowest Channel / 20MHz / 16QAM



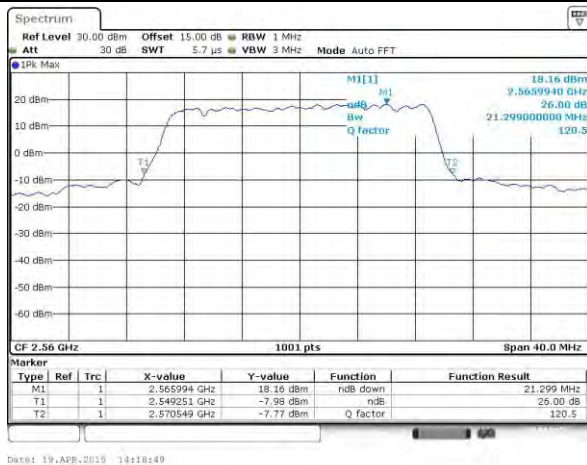
Middle Channel / 20MHz / QPSK



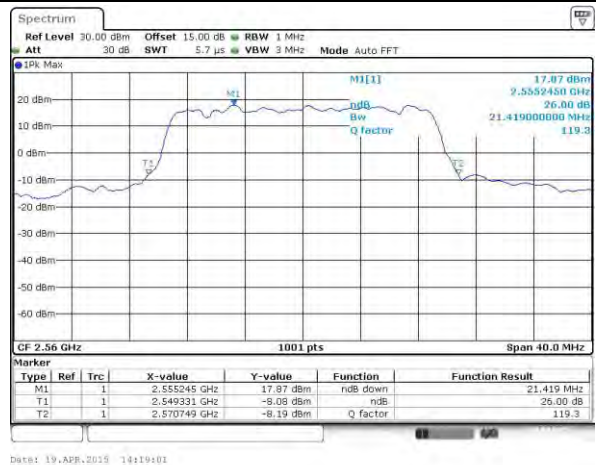
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



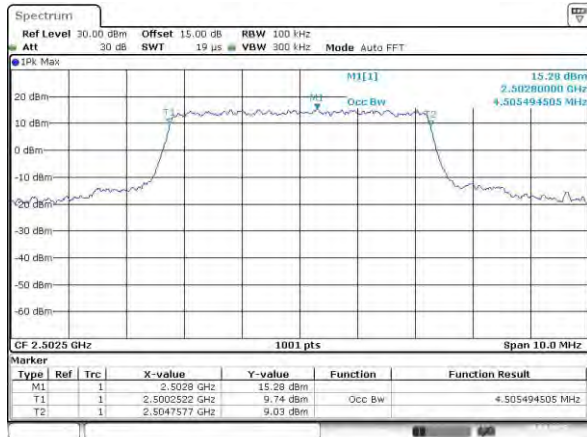
**Occupied Bandwidth**

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.49	9.09	9.09	13.58	13.49	18.42	18.38
Middle CH	-	-	-	-	4.50	4.50	9.09	9.11	13.52	13.49	18.50	18.50
Highest CH	-	-	-	-	4.51	4.50	9.09	9.05	13.49	13.52	18.42	18.42

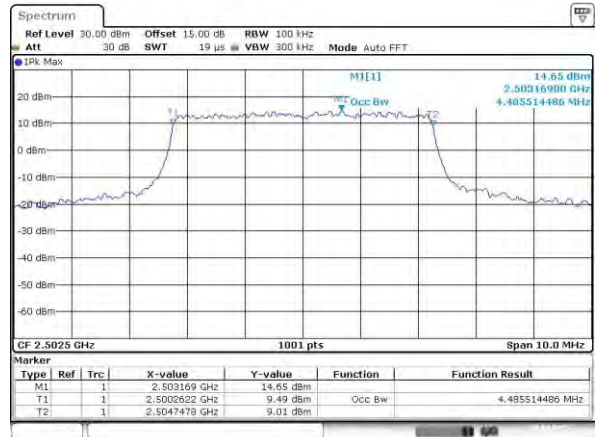


LTE Band 7

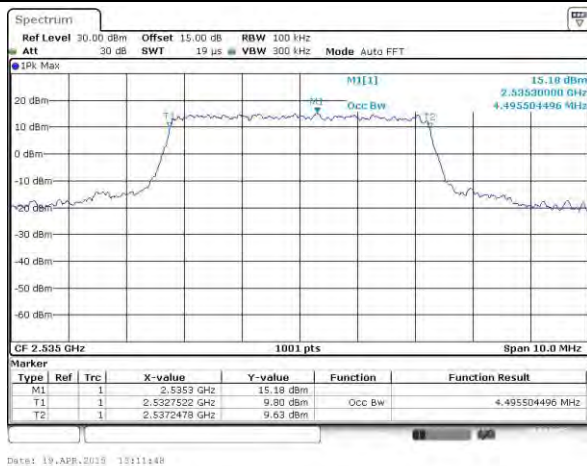
Lowest Channel / 5MHz / QPSK



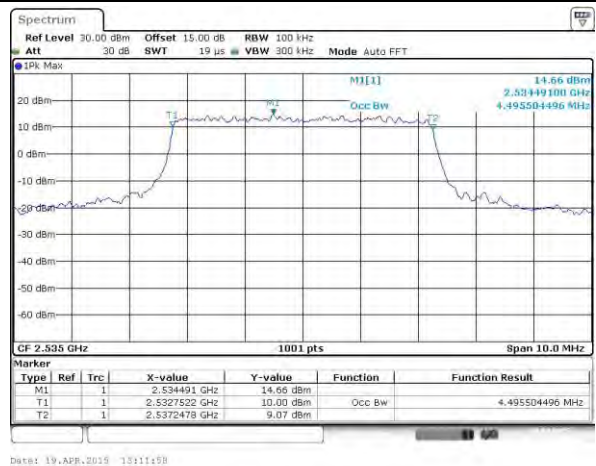
Lowest Channel / 5MHz / 16QAM



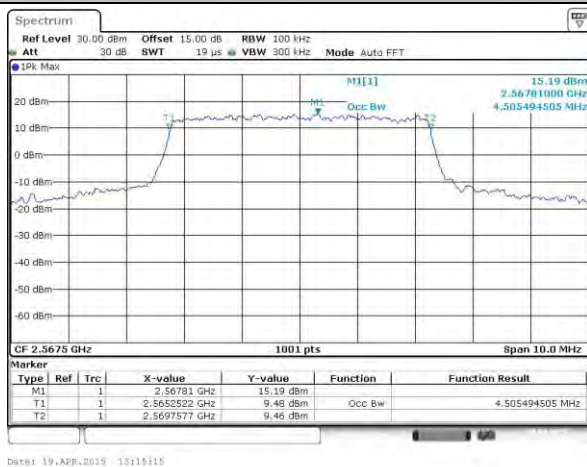
Middle Channel / 5MHz / QPSK



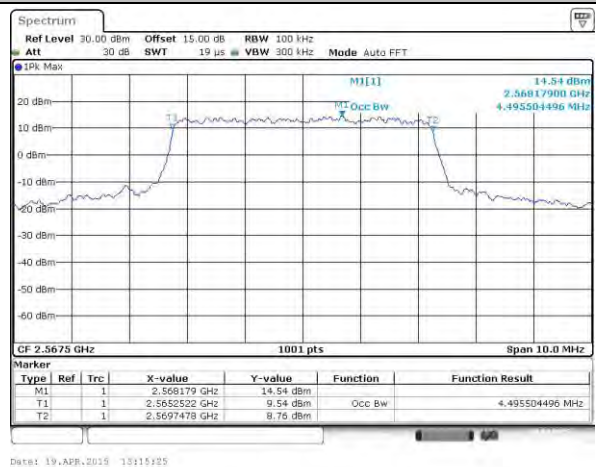
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



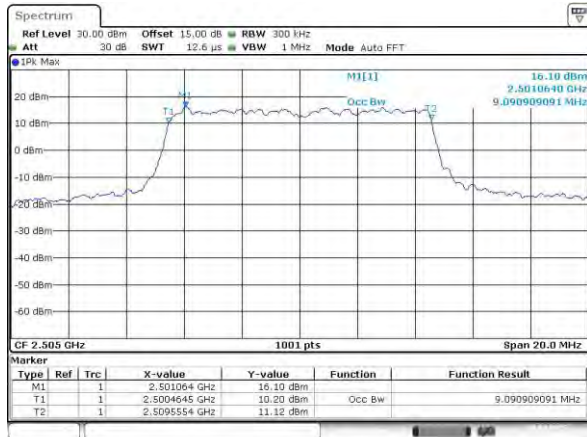
Highest Channel / 5MHz / 16QAM



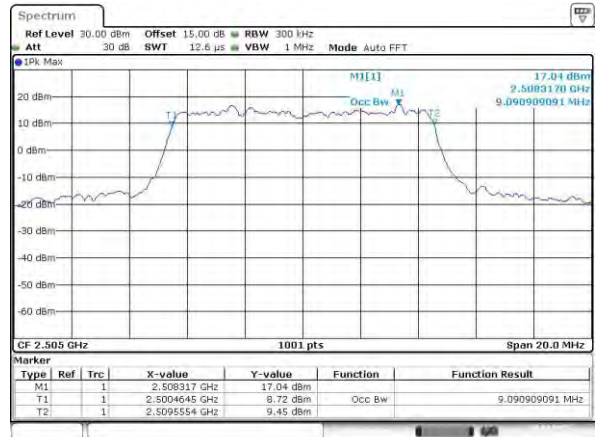


LTE Band 7

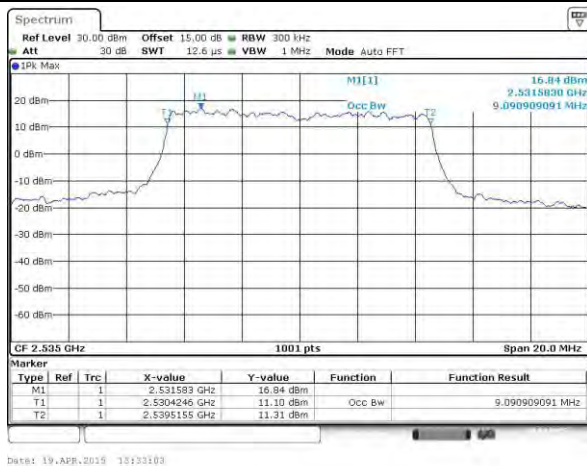
Lowest Channel / 10MHz / QPSK



Lowest Channel / 10MHz / 16QAM



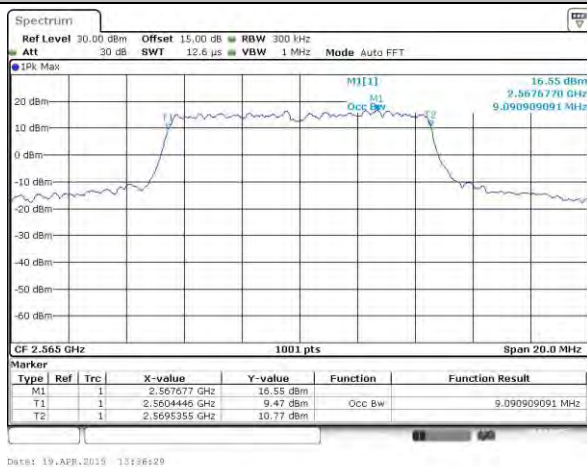
Middle Channel / 10MHz / QPSK



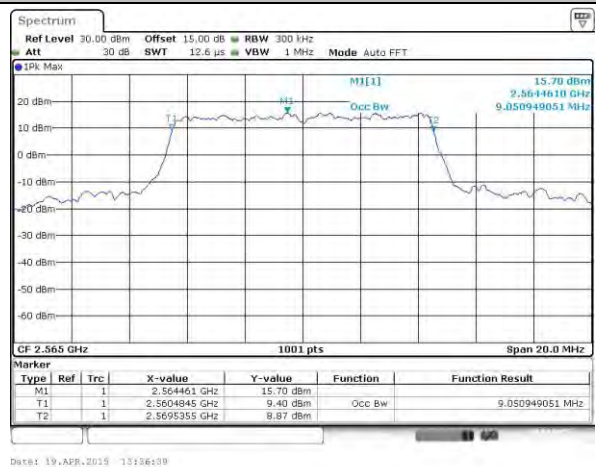
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



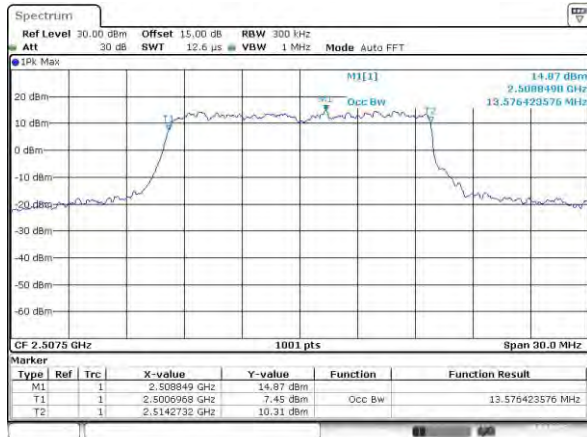
Highest Channel / 10MHz / 16QAM





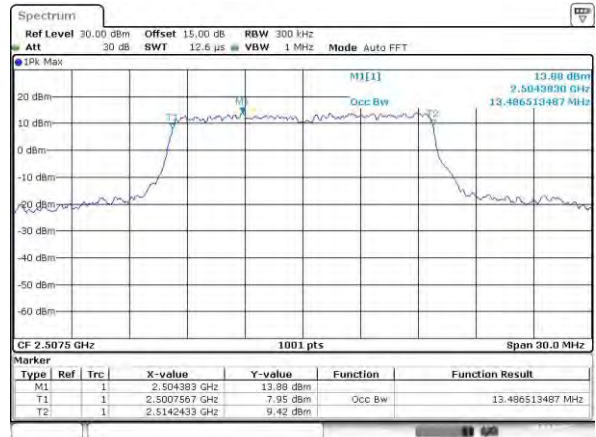
LTE Band 7

Lowest Channel / 15MHz / QPSK



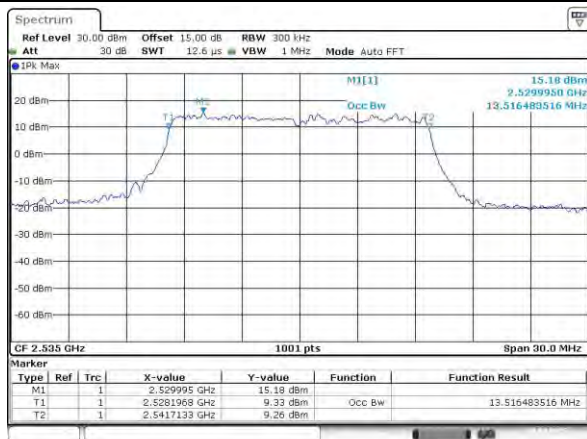
Date: 19.APR.2015 13:45:20

Lowest Channel / 15MHz / 16QAM



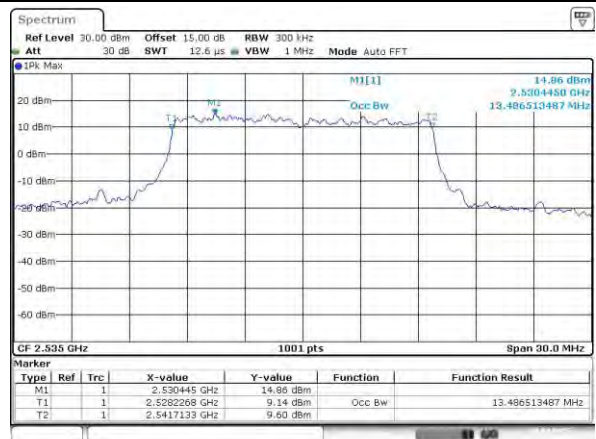
Date: 19.APR.2015 13:45:30

Middle Channel / 15MHz / QPSK



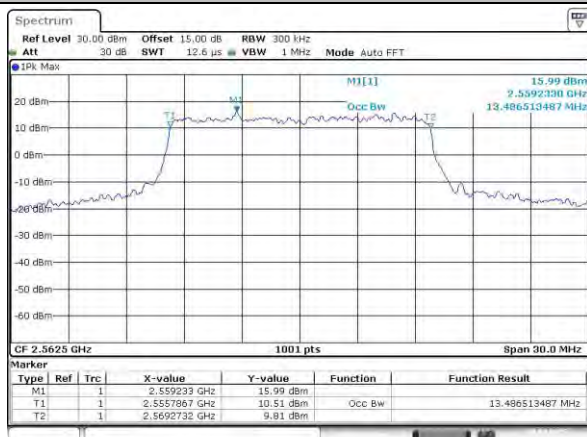
Date: 19.APR.2015 13:45:05

Middle Channel / 15MHz / 16QAM



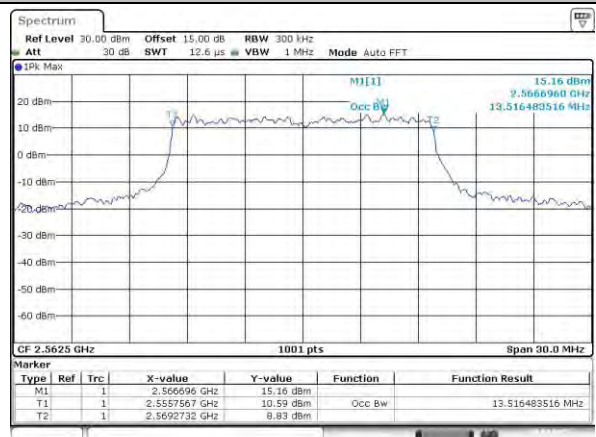
Date: 19.APR.2015 13:45:15

Highest Channel / 15MHz / QPSK



Date: 19.APR.2015 13:57:31

Highest Channel / 15MHz / 16QAM

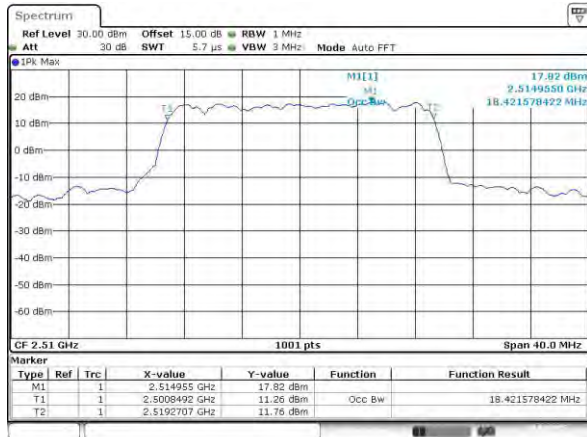


Date: 19.APR.2015 13:57:41



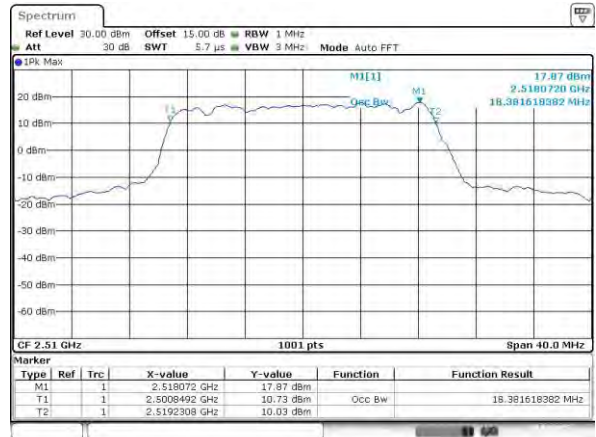
LTE Band 7

Lowest Channel / 20MHz / QPSK



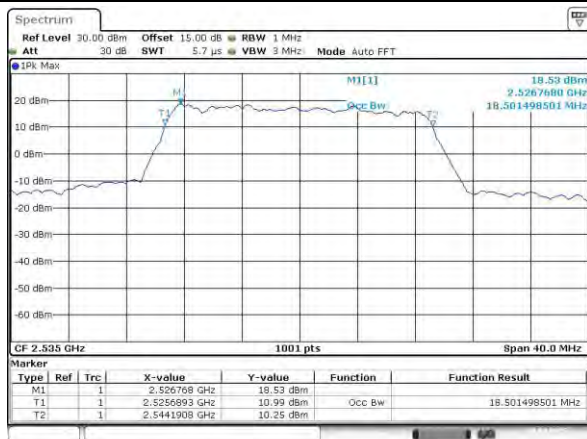
Date: 19.APR.2015 14:06:16

Lowest Channel / 20MHz / 16QAM



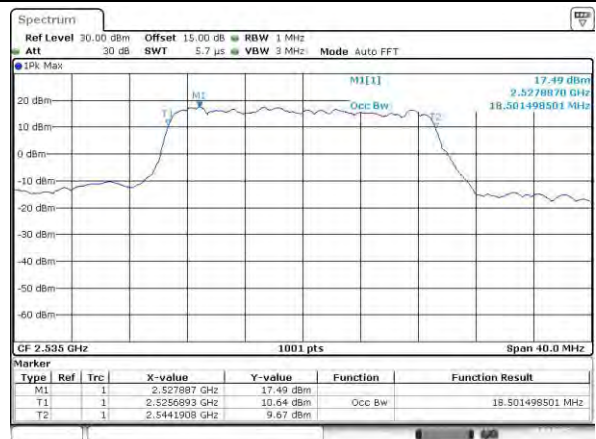
Date: 19.APR.2015 14:06:126

Middle Channel / 20MHz / QPSK



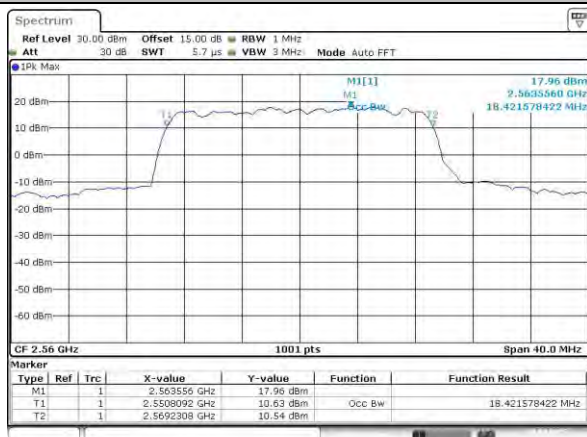
Date: 19.APR.2015 14:15:01

Middle Channel / 20MHz / 16QAM



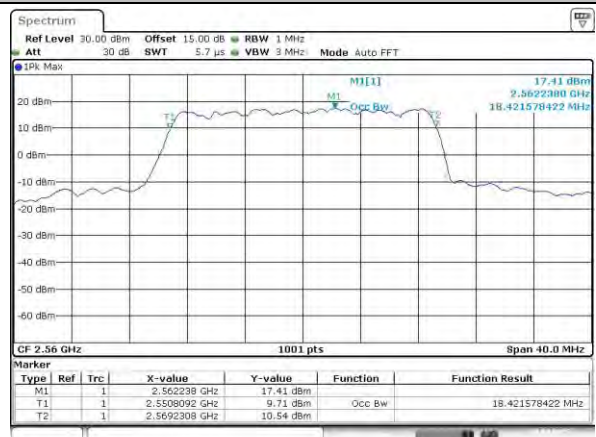
Date: 19.APR.2015 14:15:111

Highest Channel / 20MHz / QPSK



Date: 19.APR.2015 14:18:27

Highest Channel / 20MHz / 16QAM



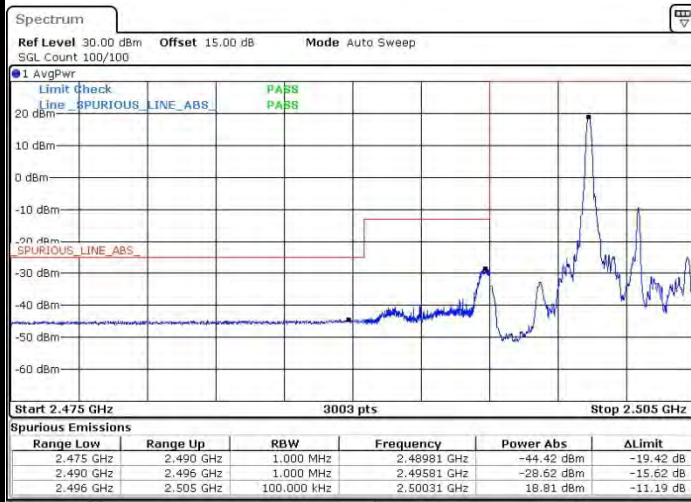
Date: 19.APR.2015 14:18:137

**Conducted Band Edge****LTE Band 7 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 7 / 5MHz / 16QAM

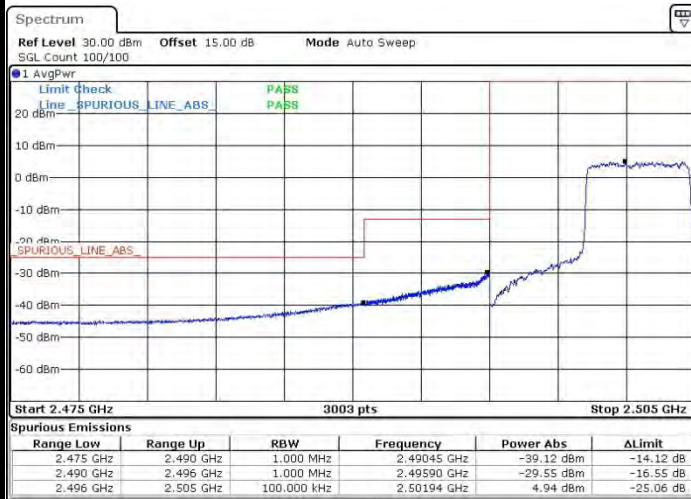
Lowest Band Edge / 1 RB



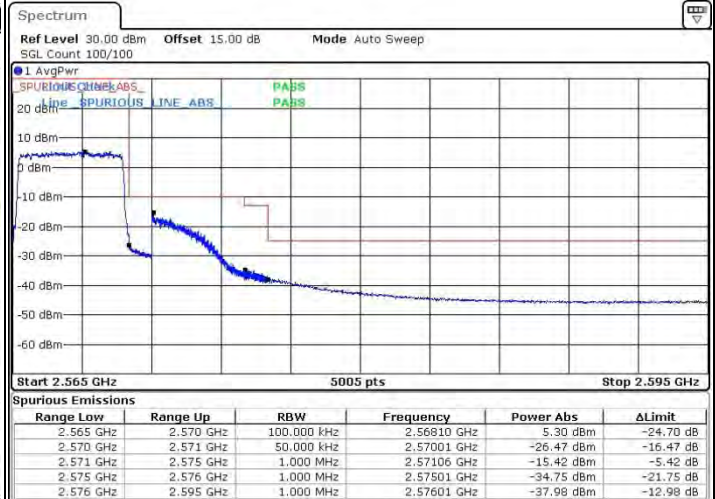
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



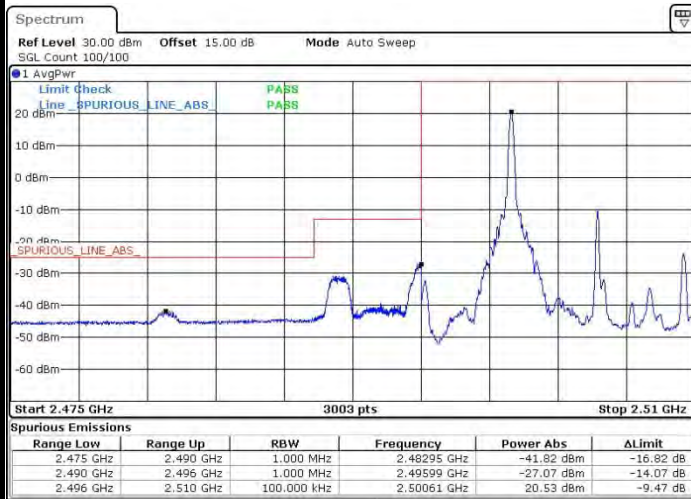
Highest Band Edge / Full RB





LTE Band 7 / 10MHz / QPSK

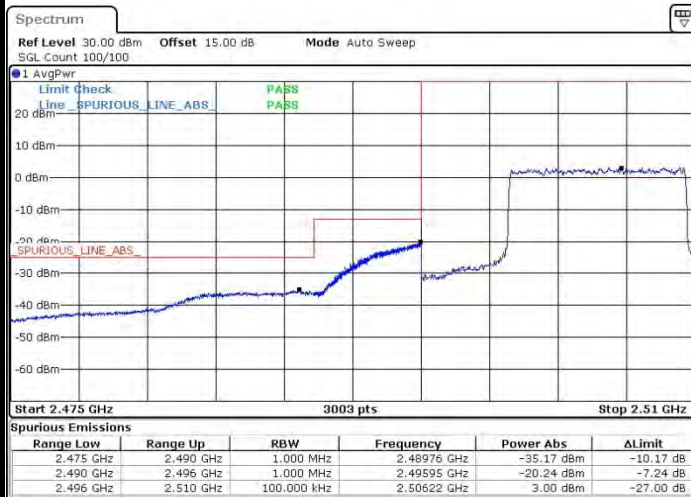
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



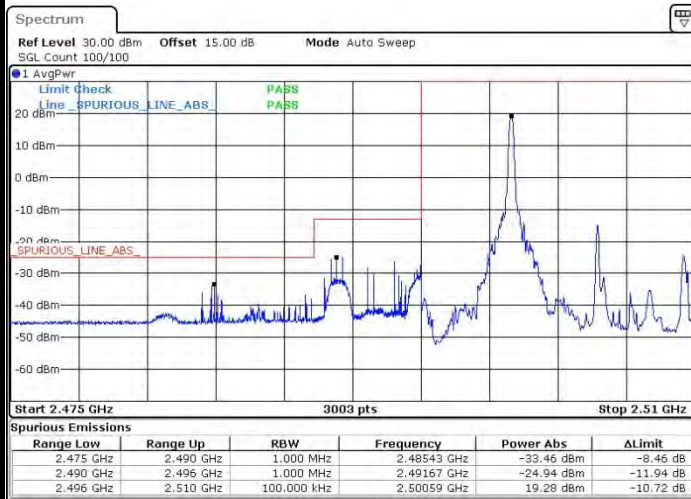
Highest Band Edge / Full RB



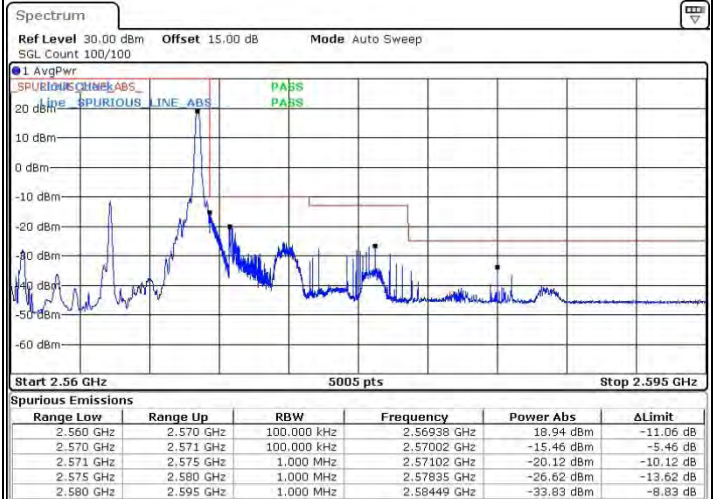


LTE Band 7 / 10MHz / 16QAM

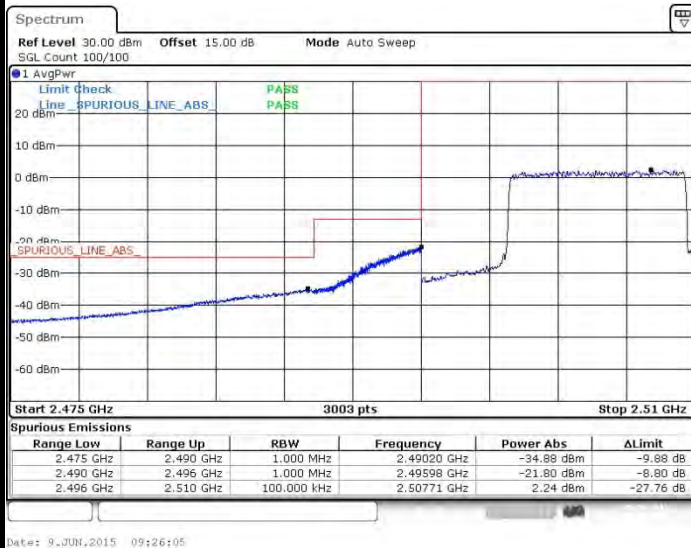
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



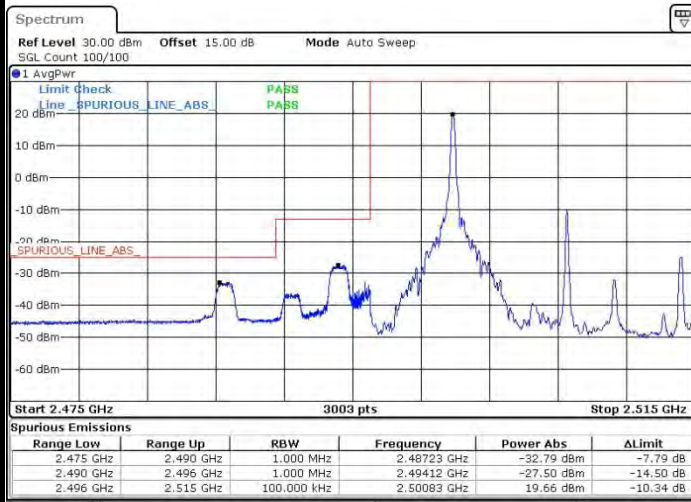
Highest Band Edge / Full RB





LTE Band 7 / 15MHz / QPSK

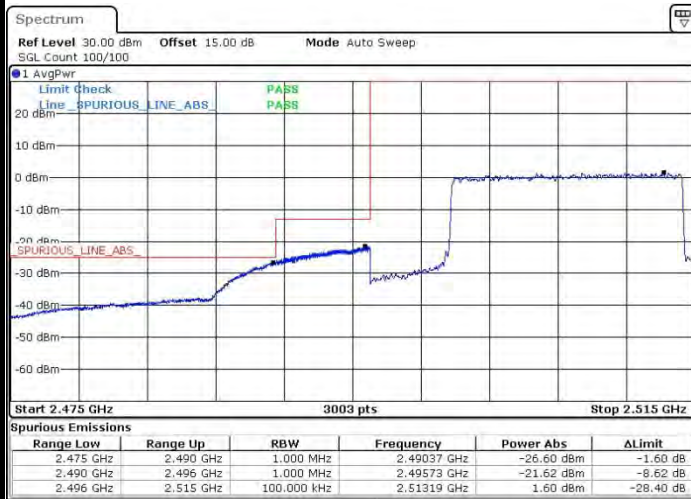
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



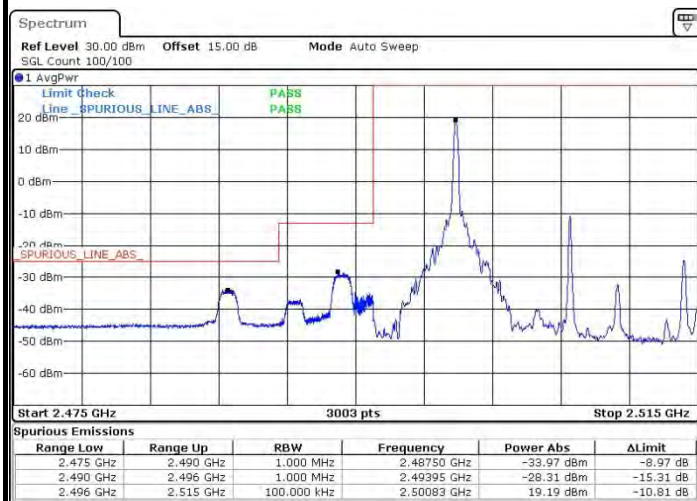
Highest Band Edge / Full RB



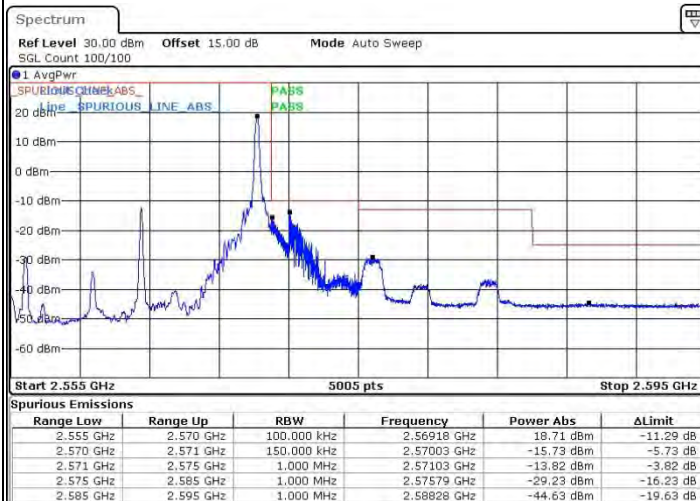


LTE Band 7 / 15MHz / 16QAM

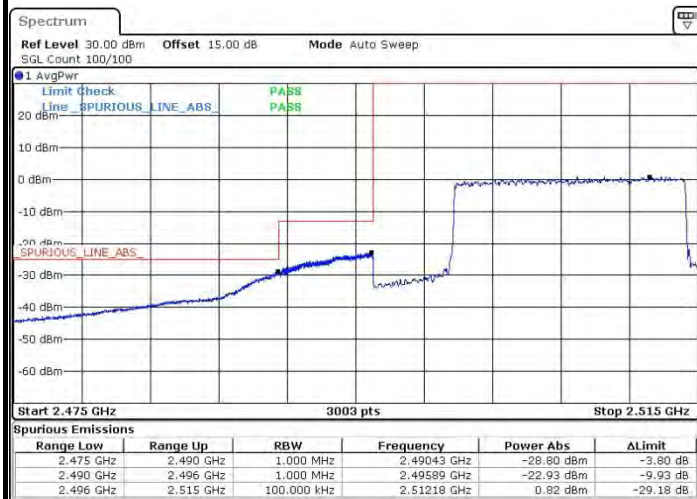
Lowest Band Edge / 1 RB



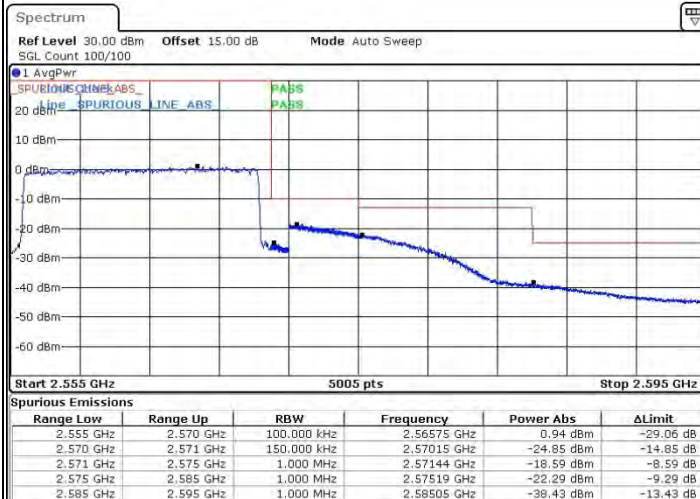
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



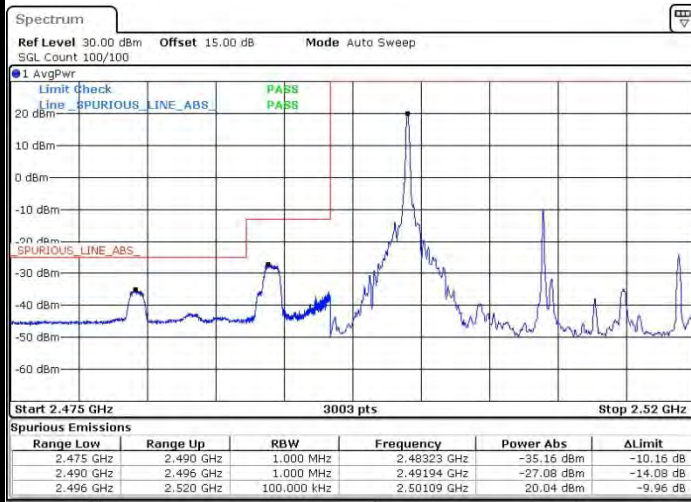
Highest Band Edge / Full RB





LTE Band 7 / 20MHz / QPSK

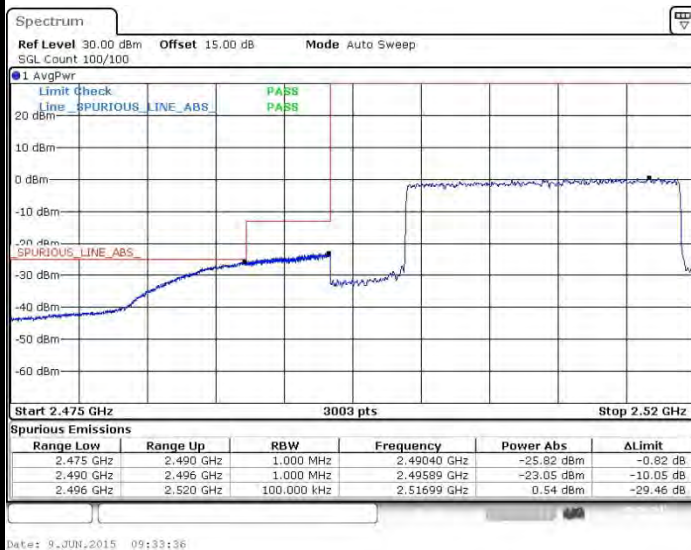
Lowest Band Edge / 1 RB



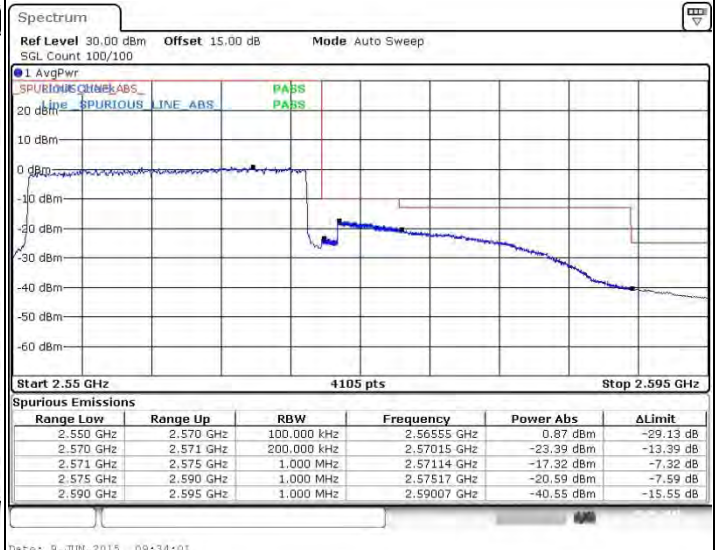
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



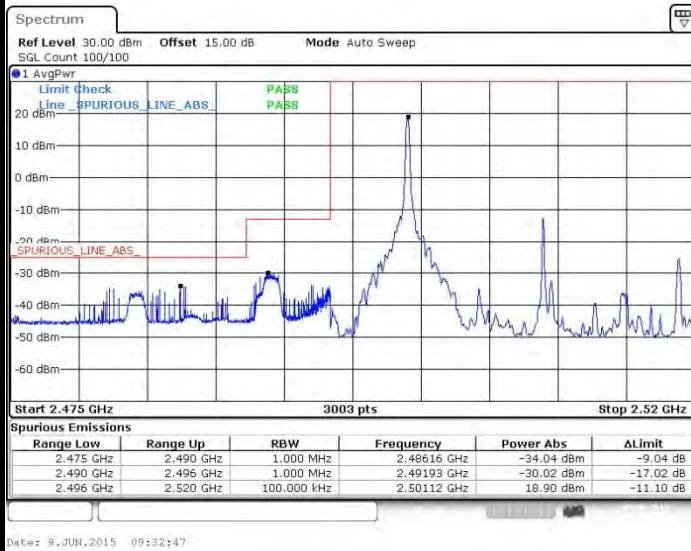
Highest Band Edge / Full RB



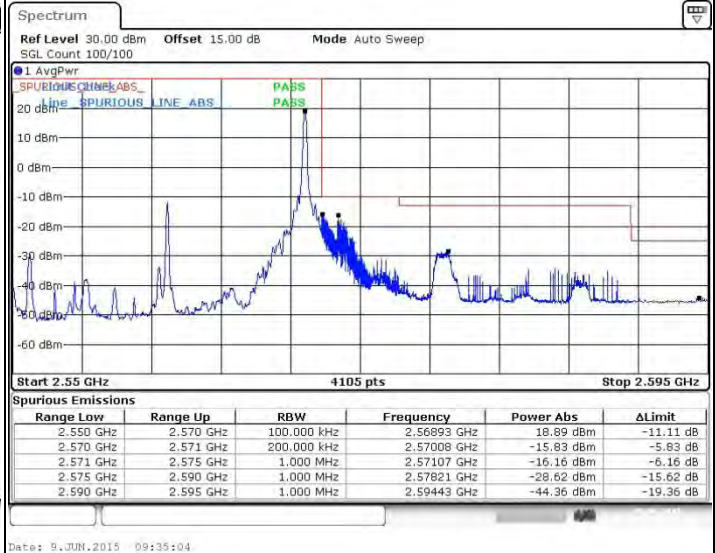


LTE Band 7 / 20MHz / 16QAM

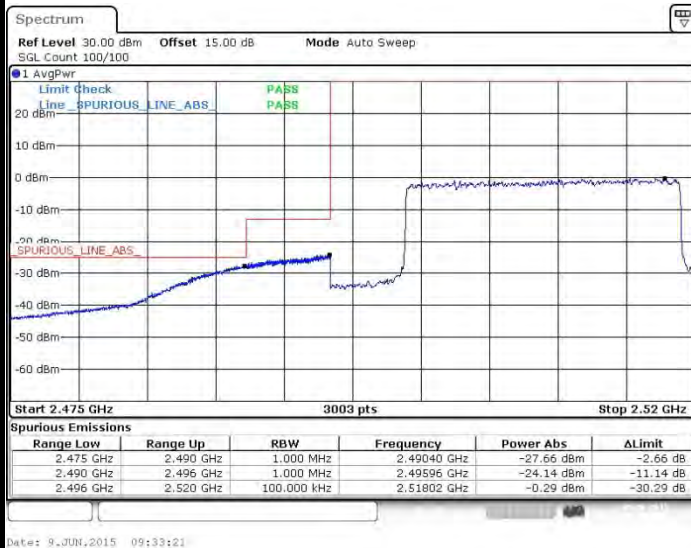
Lowest Band Edge / 1 RB



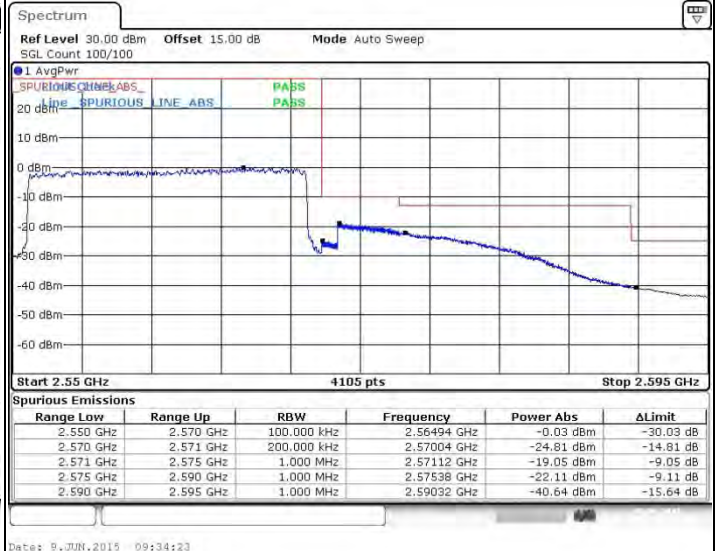
Highest Band Edge / 1RB

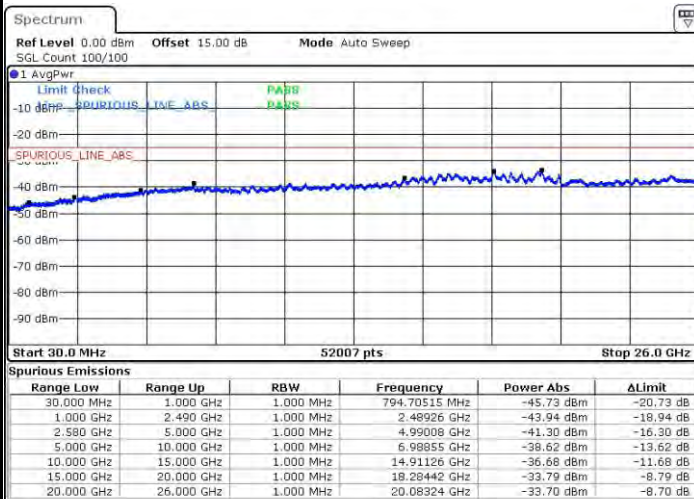


Lowest Band Edge / Full RB

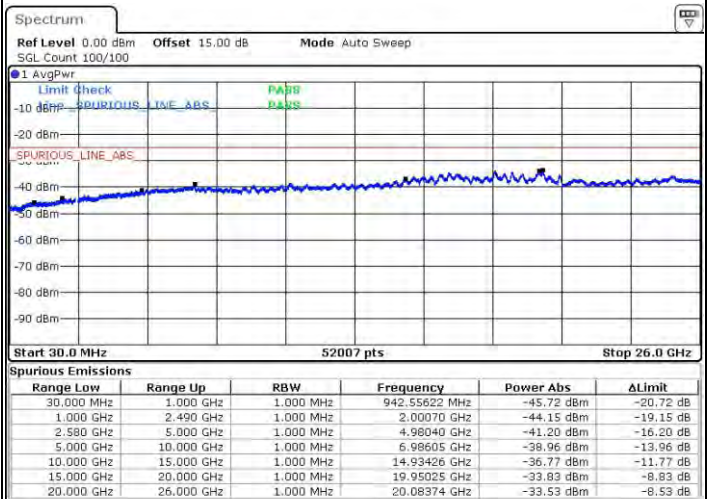


Highest Band Edge / Full RB

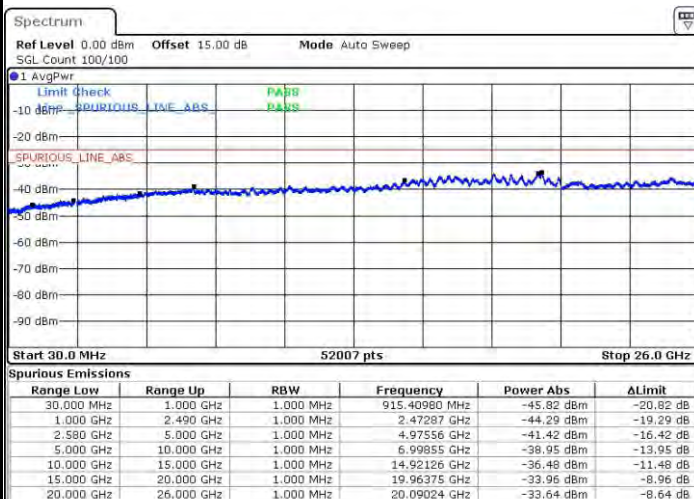


**Conducted Spurious Emission****LTE Band 7 / 5MHz****Lowest Channel / QPSK**

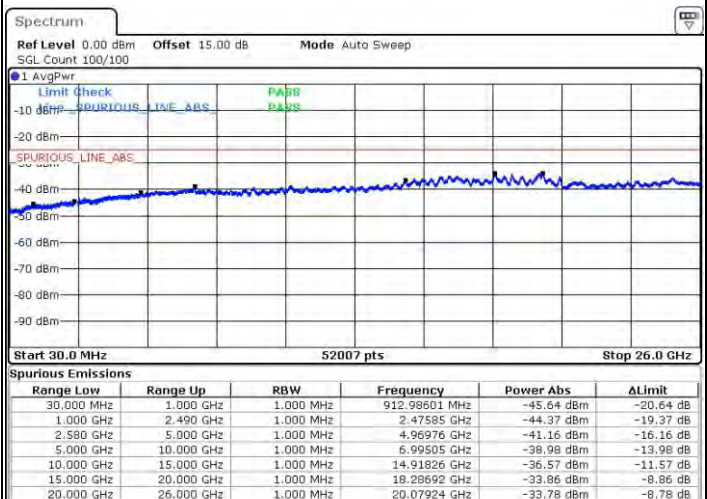
Date: 19.APR.2015 13:10:05

Lowest Channel / 16QAM

Date: 19.APR.2015 13:11:27

Middle Channel / QPSK

Date: 19.APR.2015 13:13:32

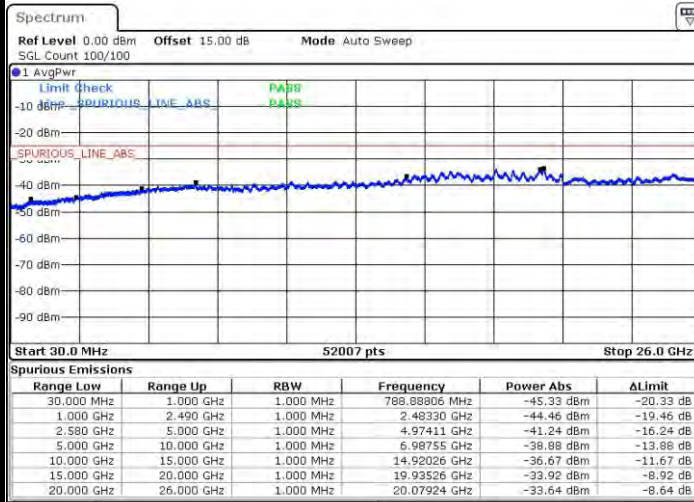
Middle Channel / 16QAM

Date: 19.APR.2015 13:14:54



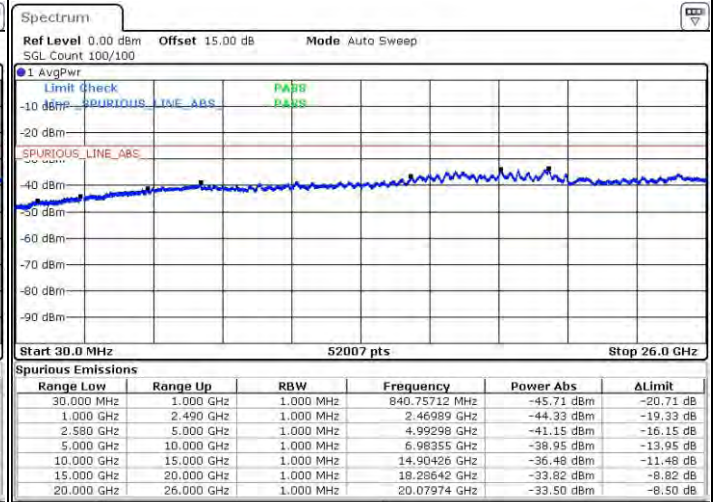
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 19.APR.2015 13:22:23

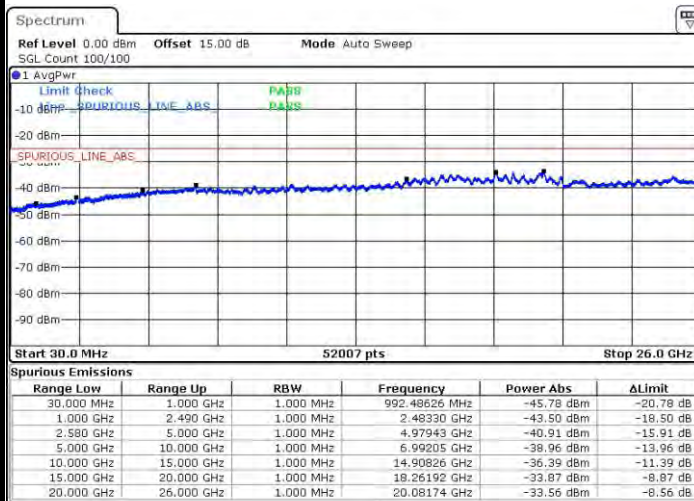
Highest Channel / 16QAM



Date: 19.APR.2015 13:23:44

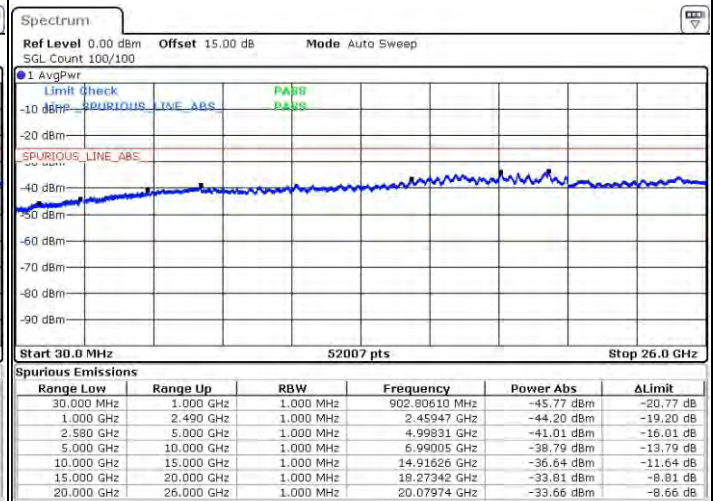
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 19.APR.2015 13:31:20

Lowest Channel / 16QAM

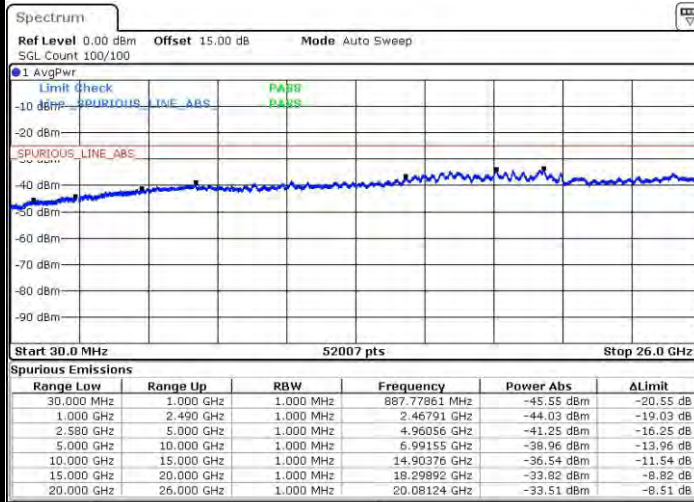


Date: 19.APR.2015 13:32:41



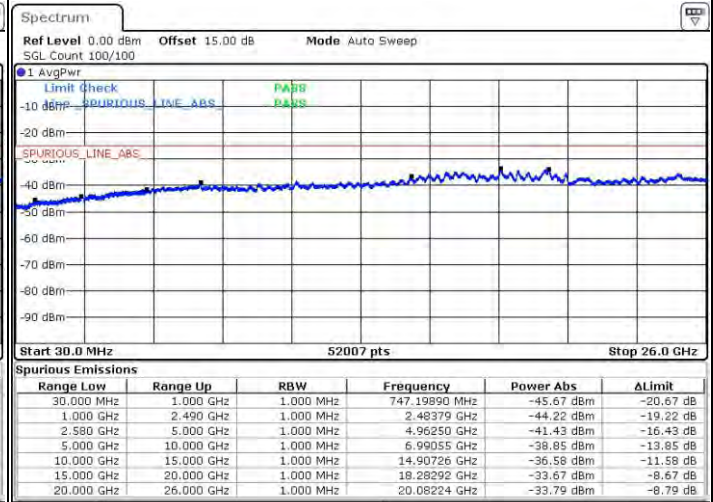
LTE Band 7 / 10MHz

Middle Channel / QPSK



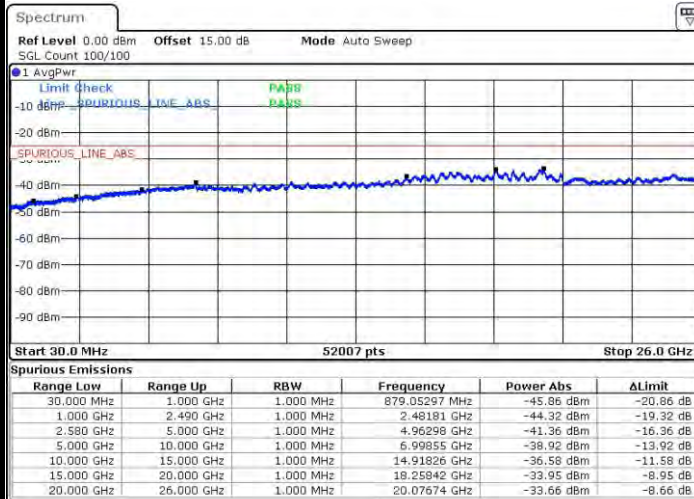
Date: 19.APR.2015 13:34:06

Middle Channel / 16QAM



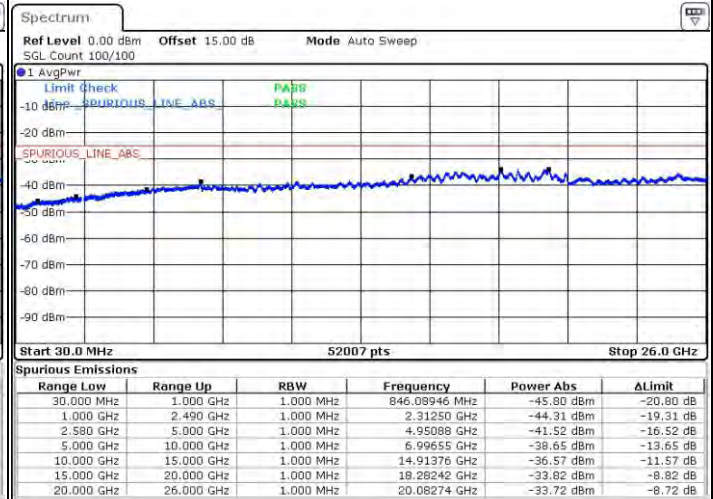
Date: 19.APR.2015 13:36:07

Highest Channel / QPSK



Date: 19.APR.2015 13:43:37

Highest Channel / 16QAM

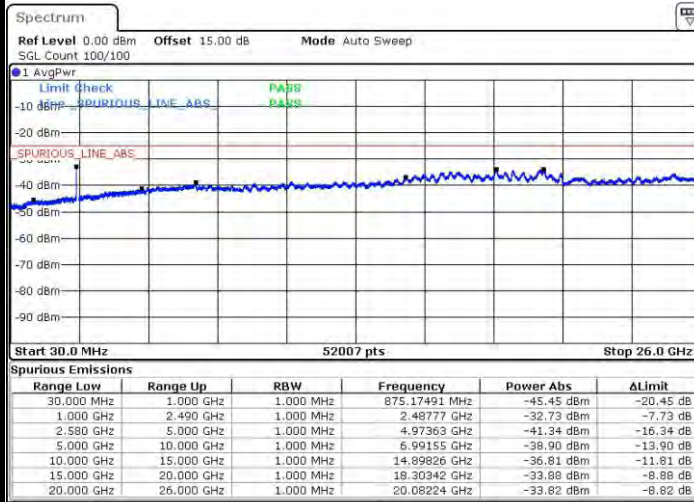


Date: 19.APR.2015 13:44:36



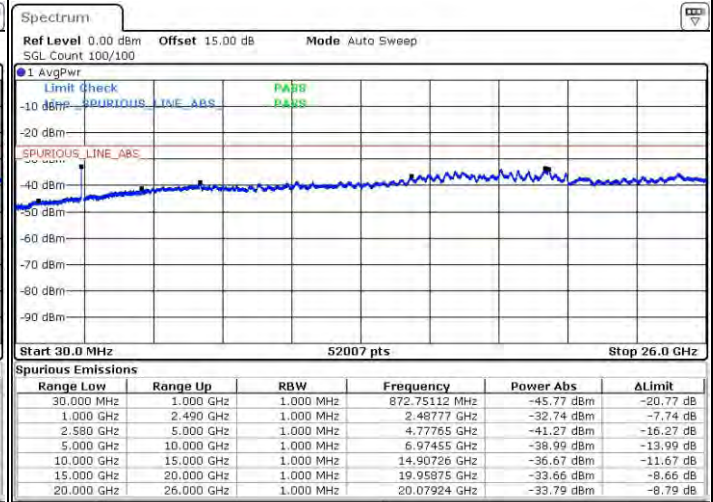
LTE Band 7 / 15MHz

Lowest Channel / QPSK



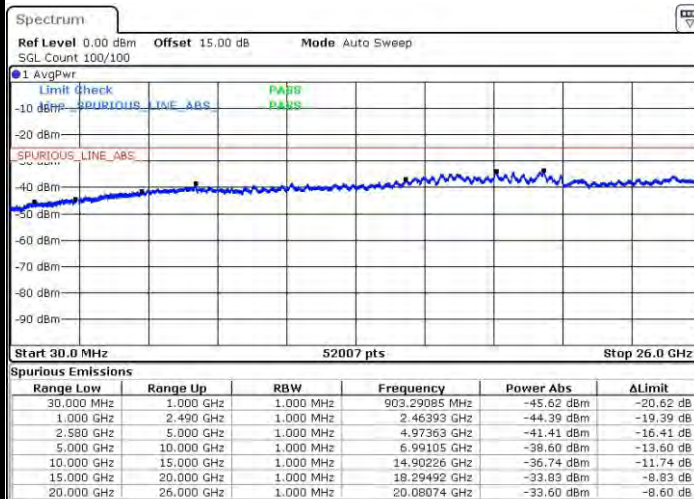
Date: 19.APR.2015 13:52:23

Lowest Channel / 16QAM



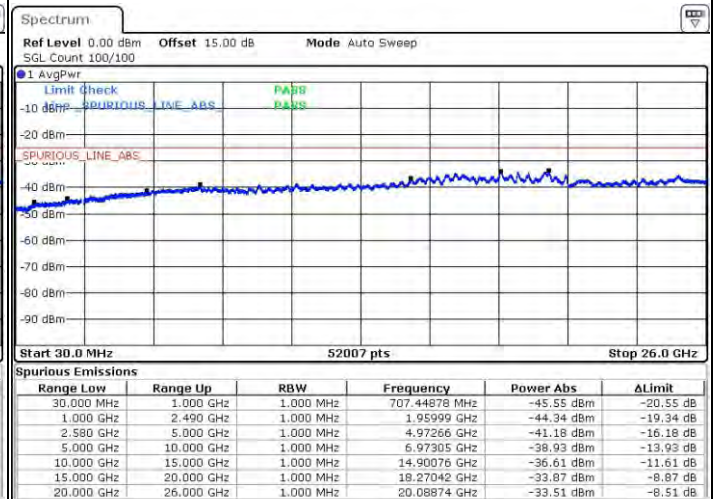
Date: 19.APR.2015 13:53:43

Middle Channel / QPSK



Date: 19.APR.2015 13:55:48

Middle Channel / 16QAM

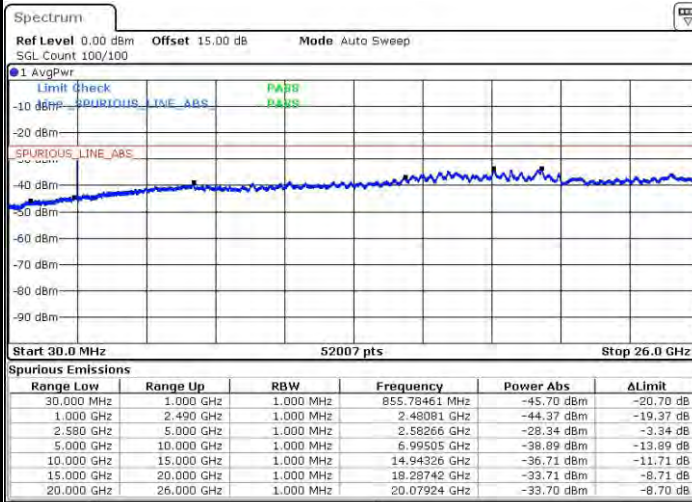


Date: 19.APR.2015 13:57:09



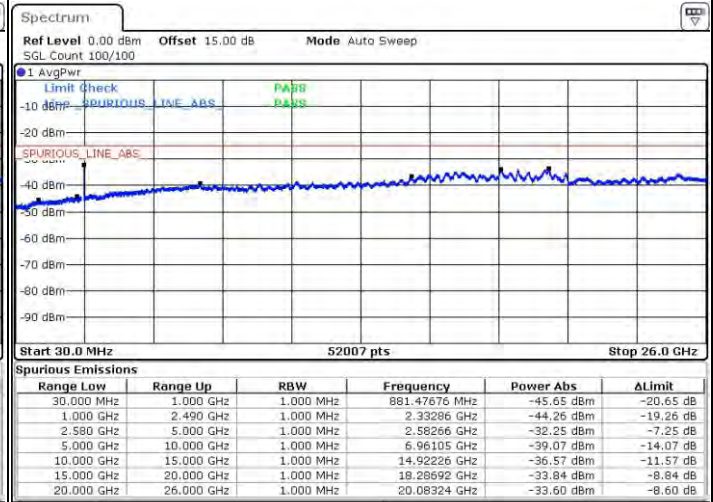
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 19.APR.2015 14:04:33

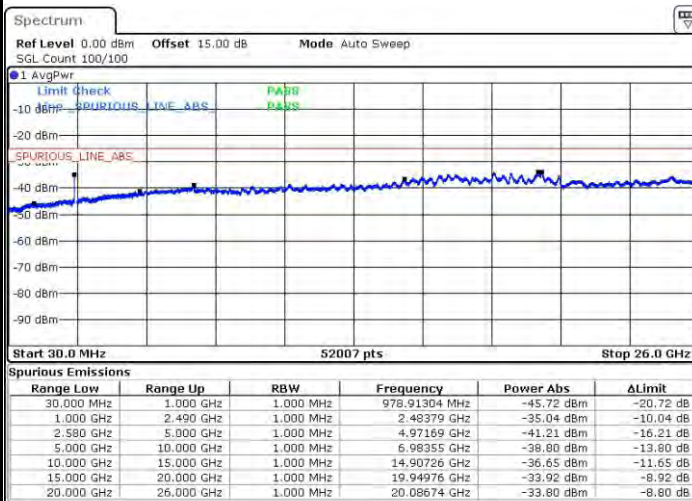
Highest Channel / 16QAM



Date: 19.APR.2015 14:05:54

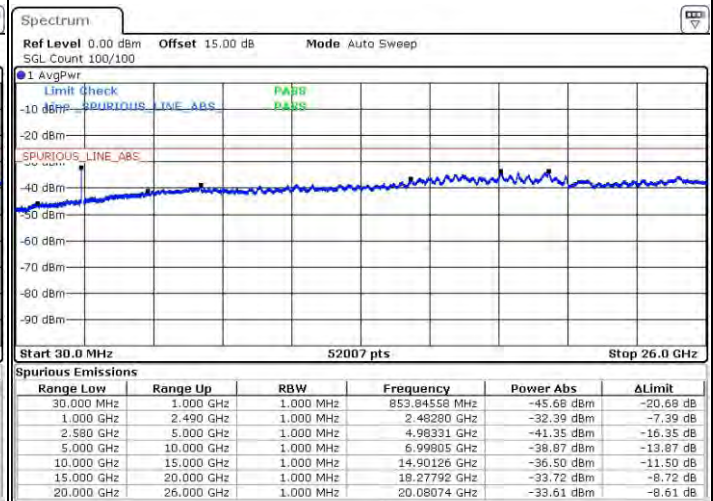
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 19.APR.2015 14:13:18

Lowest Channel / 16QAM

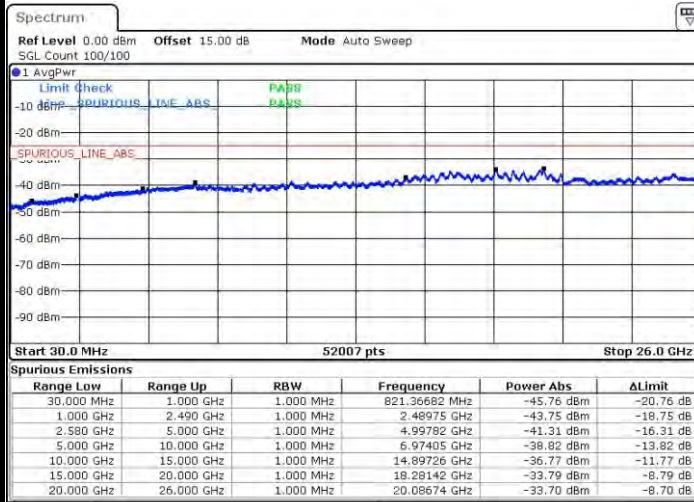


Date: 19.APR.2015 14:14:39



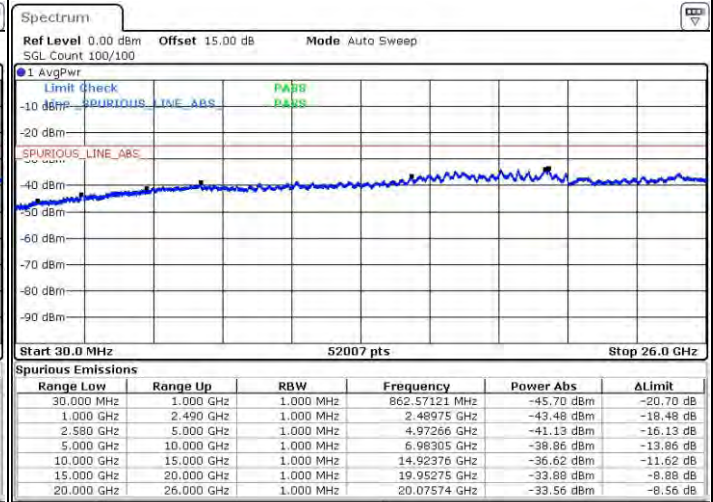
LTE Band 7 / 20MHz

Middle Channel / QPSK



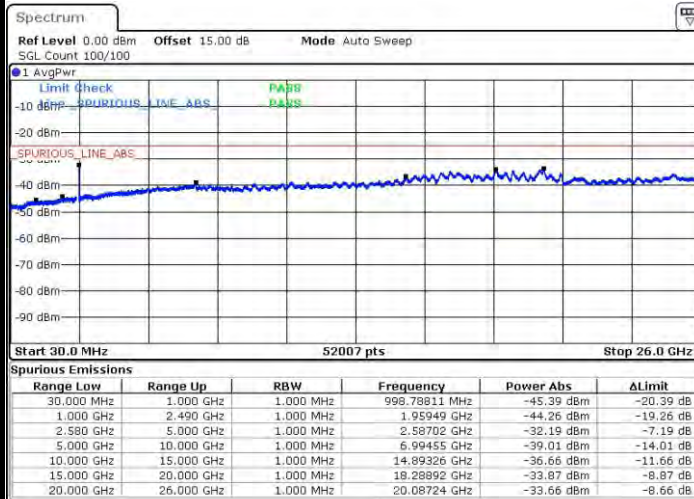
Date: 19.APR.2015 14:16:44

Middle Channel / 16QAM



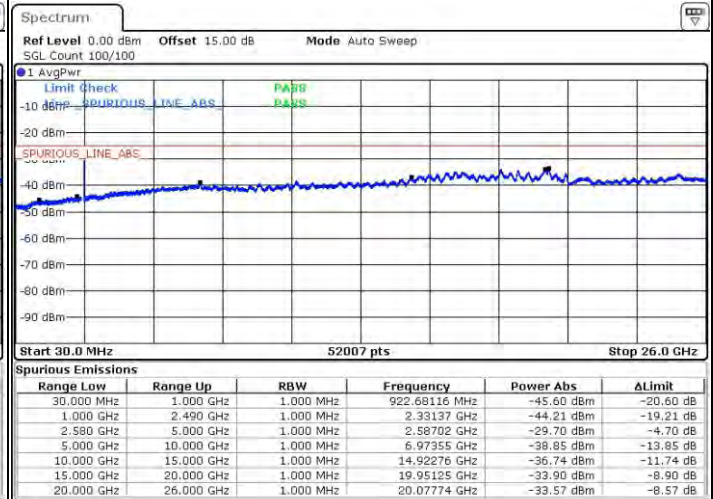
Date: 19.APR.2015 14:18:05

Highest Channel / QPSK



Date: 19.APR.2015 14:25:29

Highest Channel / 16QAM



Date: 19.APR.2015 14:26:30

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage = 3.3V. ; Battery End Point (BEP) = 3.135V. ; Maximum Voltage =4.4V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



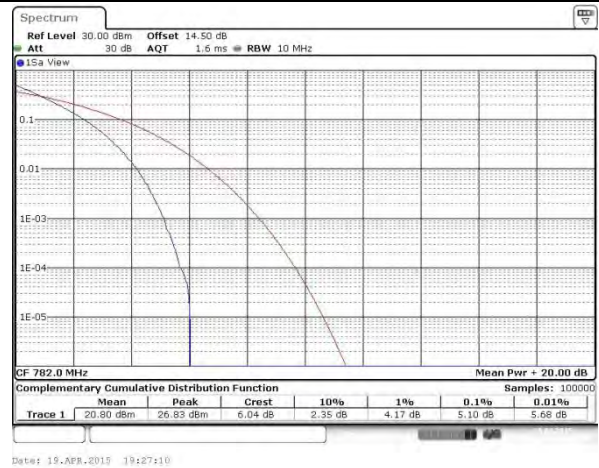
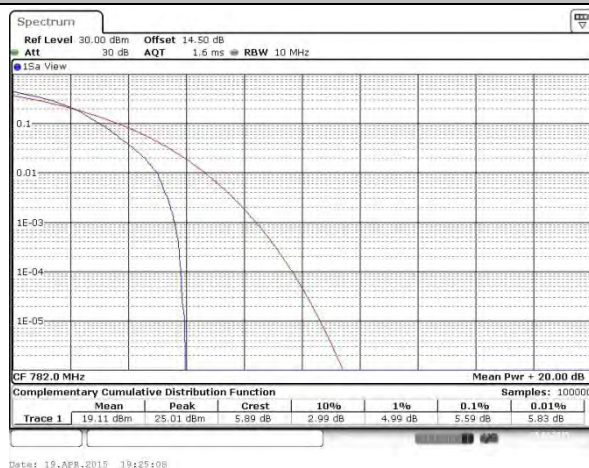
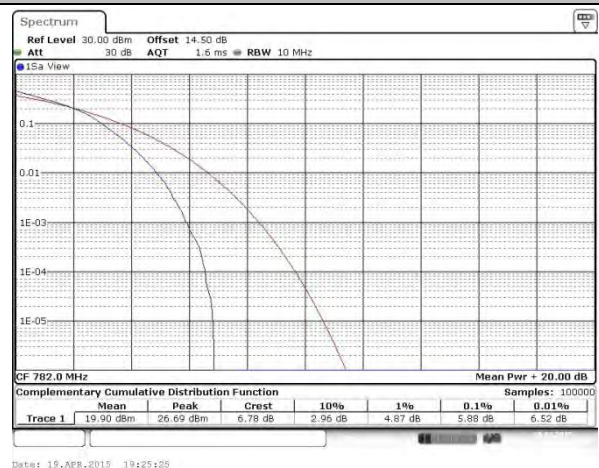
LTE Band 13

Conducted Output Power(Average power)

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.70	21.74	21.77
5	1	12		21.80	21.79	21.82
5	1	24		21.79	21.68	21.73
5	12	0		20.74	20.68	20.78
5	12	6		20.69	20.75	20.74
5	12	11		20.71	20.74	20.73
5	25	0		20.71	20.76	20.69
5	1	0	16-QAM	20.99	21.14	21.10
5	1	12		21.13	21.08	21.13
5	1	24		21.04	21.10	20.97
5	12	0		19.74	19.85	19.77
5	12	6		19.76	19.80	19.74
5	12	11		19.69	19.85	19.75
5	25	0		19.70	19.73	19.71
10	1	0	QPSK		21.51	
10	1	24			21.69	
10	1	49			21.19	
10	25	0			20.69	
10	25	12			20.68	
10	25	24			20.64	
10	50	0			20.72	
10	1	0	16-QAM		20.86	
10	1	24			21.02	
10	1	49			20.52	
10	25	0			19.80	
10	25	12			19.64	
10	25	24			19.67	
10	50	0			19.70	

**Peak-to-Average Ratio**

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.78	5.1	5.59	5.88	
Highest CH	-	-	-	-	

LTE Band 13 / 10MHz / QPSK**Middle Channel/ 1RB****Middle Channel / Full RB****LTE Band 13 / 10MHz / 16QAM****Middle Channel/ 1RB****Middle Channel / Full RB**

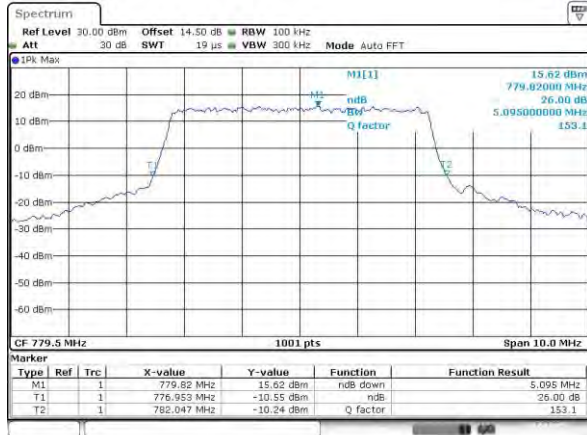
**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.10	5.09			-	-	-	-
Middle CH	-	-	-	-	5.10	5.08	10.49	10.27	-	-	-	-
Highest CH	-	-	-	-	5.11	5.07			-	-	-	-

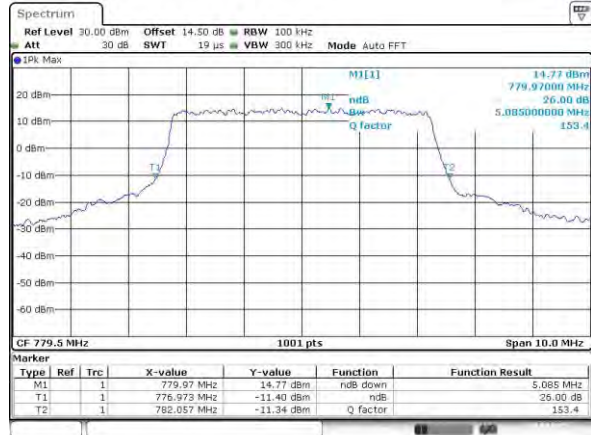


LTE Band 13

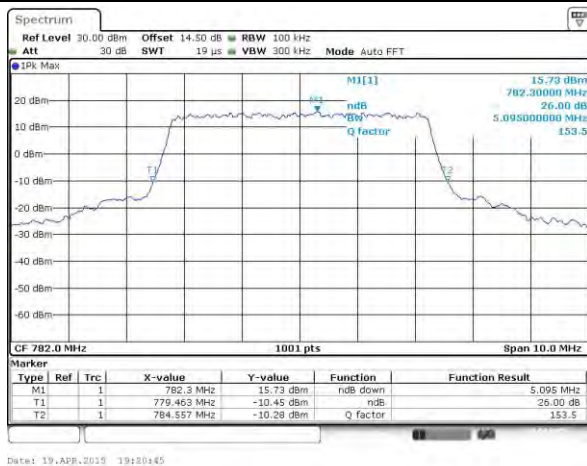
Lowest Channel / 5MHz / QPSK



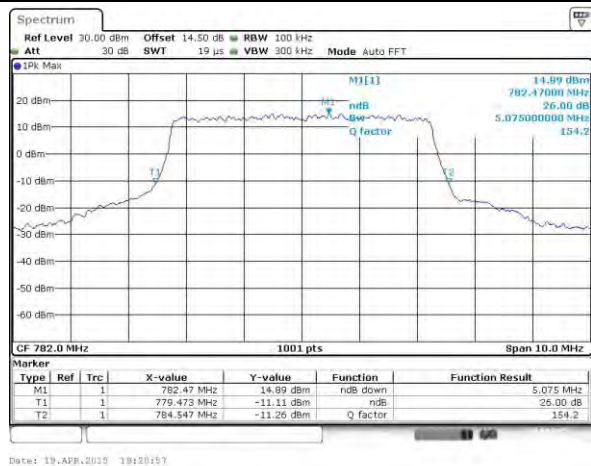
Lowest Channel / 5MHz / 16QAM



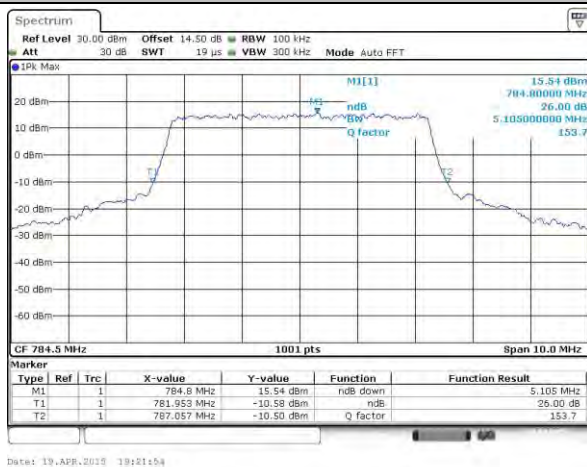
Middle Channel / 5MHz / QPSK



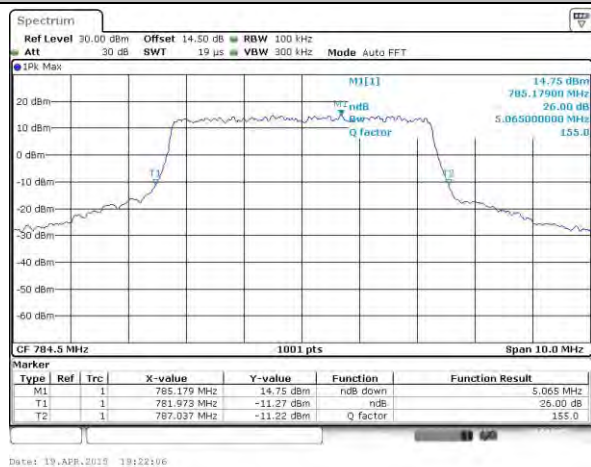
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



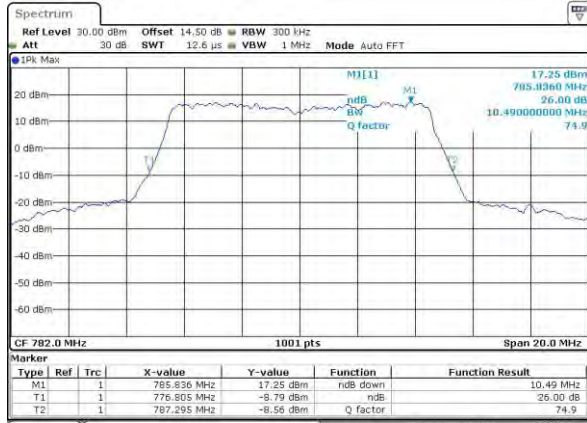
Highest Channel / 5MHz / 16QAM





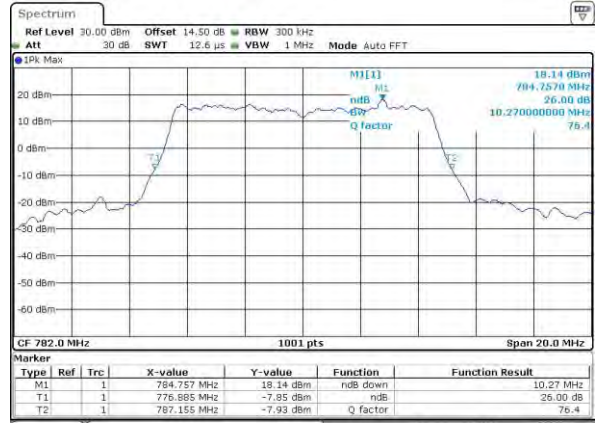
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 19.APR.2015 19:24:24

Middle Channel / 10MHz / 16QAM



Date: 19.APR.2015 19:24:37



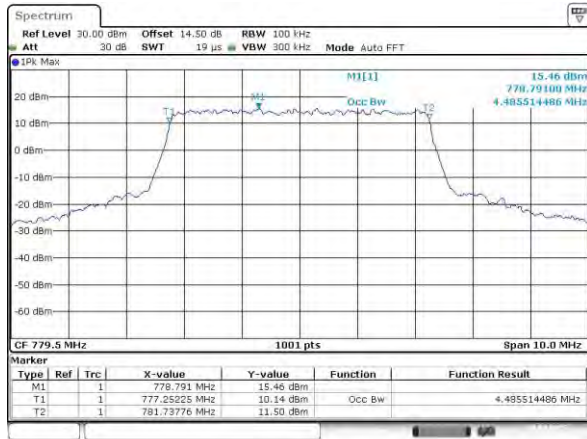
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.50	9.09	9.09	-	-	-	-
Highest CH	-	-	-	-	4.50	4.50	-	-	-	-	-	-

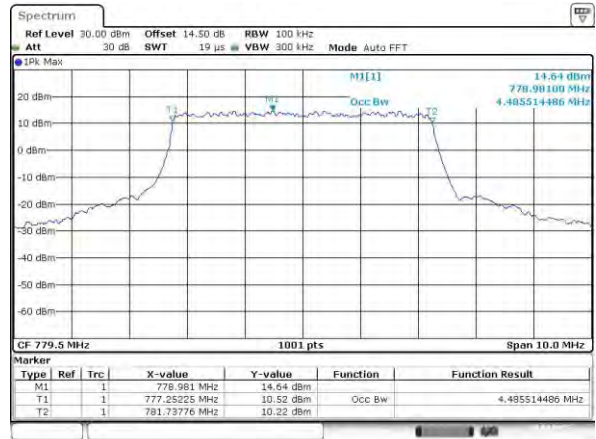


LTE Band 13

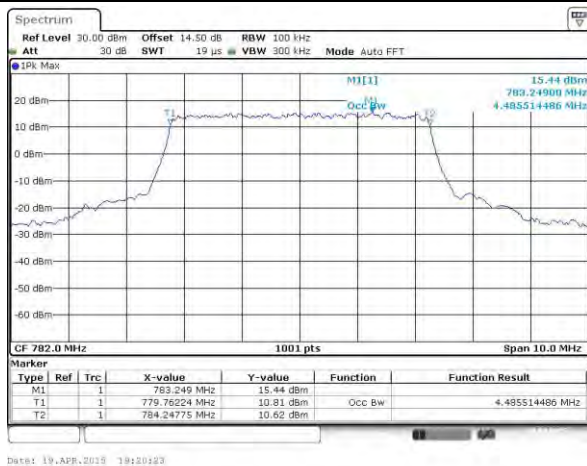
Lowest Channel / 5MHz / QPSK



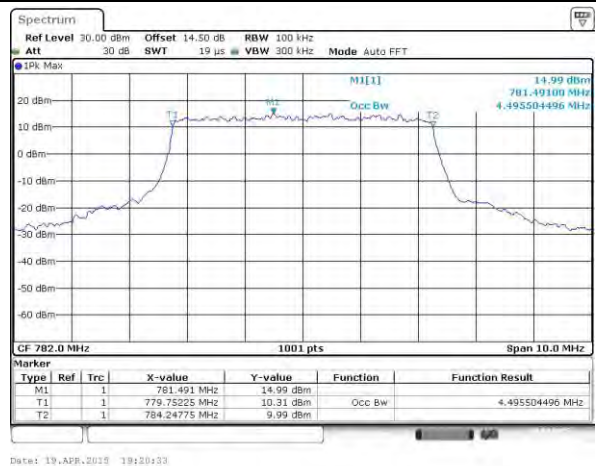
Lowest Channel / 5MHz / 16QAM



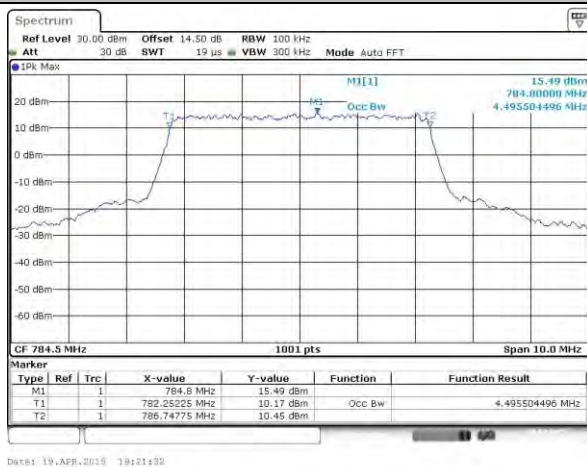
Middle Channel / 5MHz / QPSK



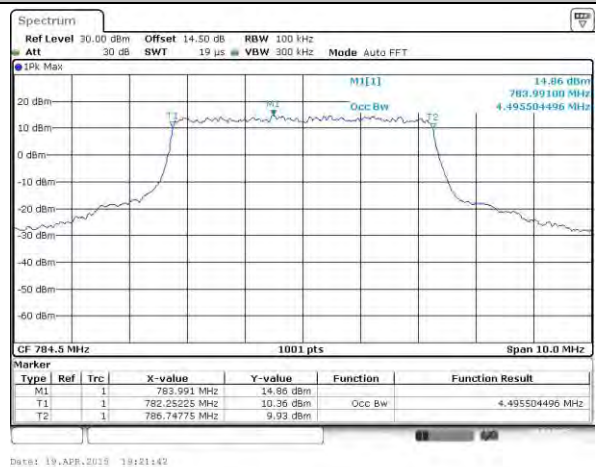
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



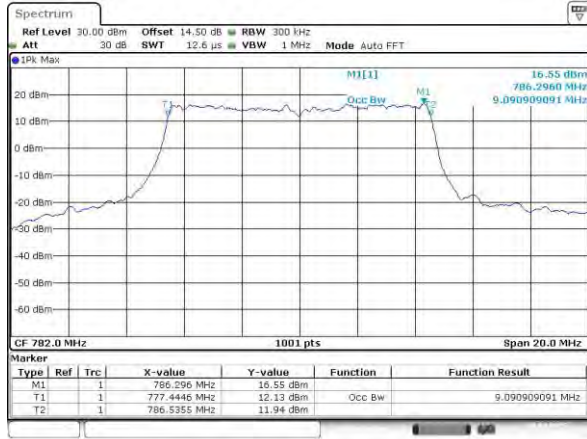
Highest Channel / 5MHz / 16QAM



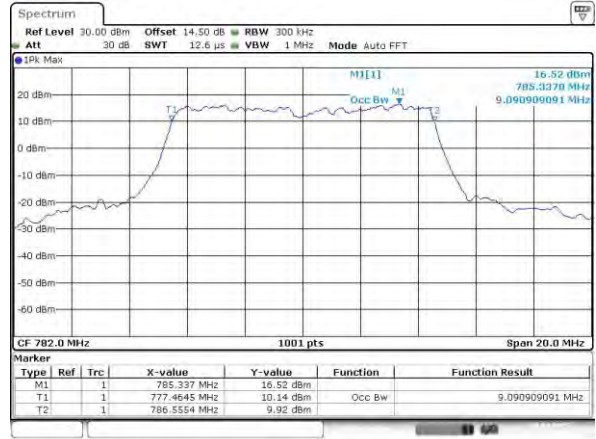


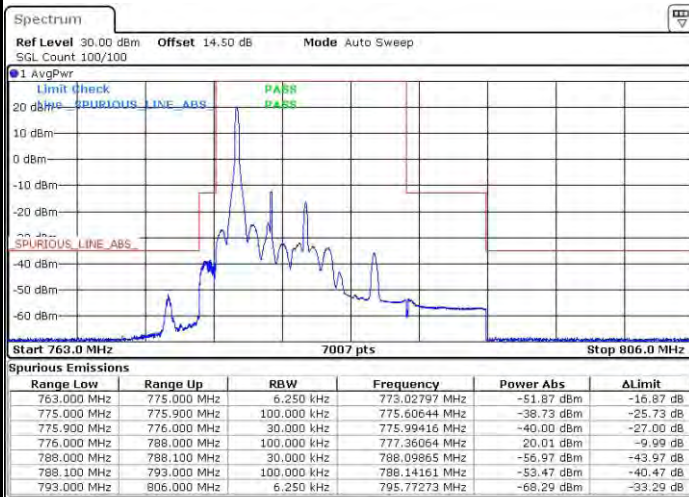
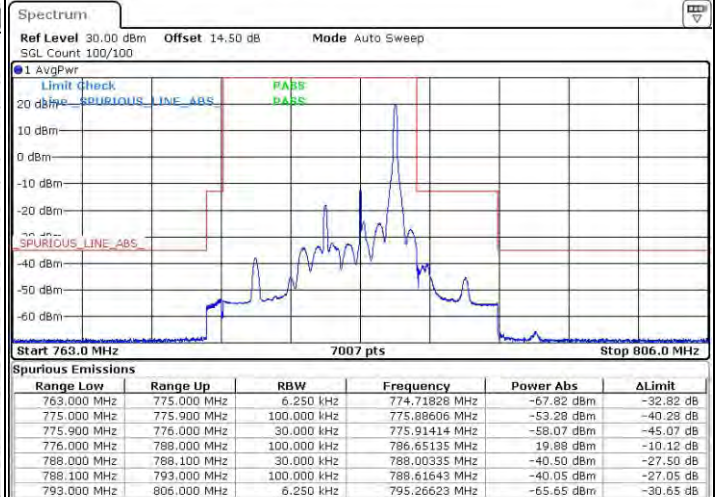
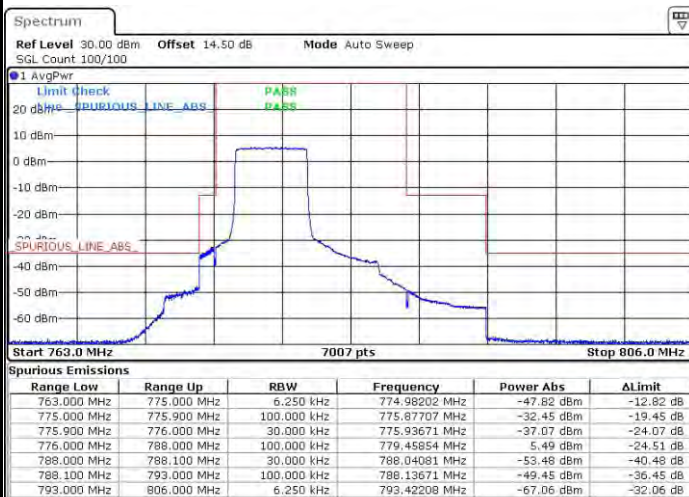
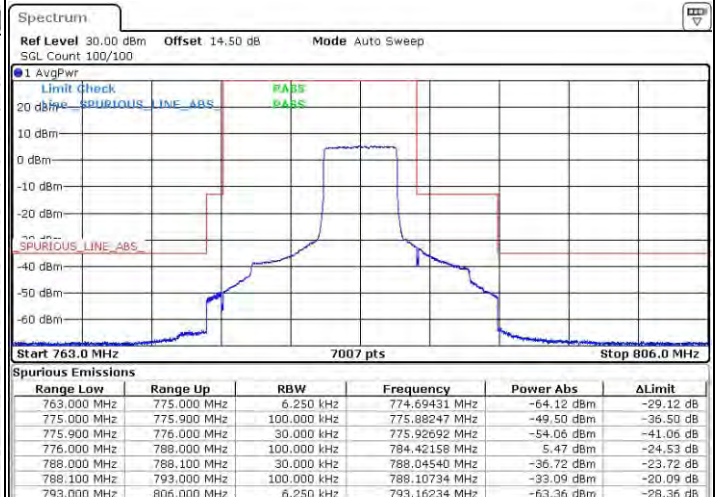
LTE Band 13

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

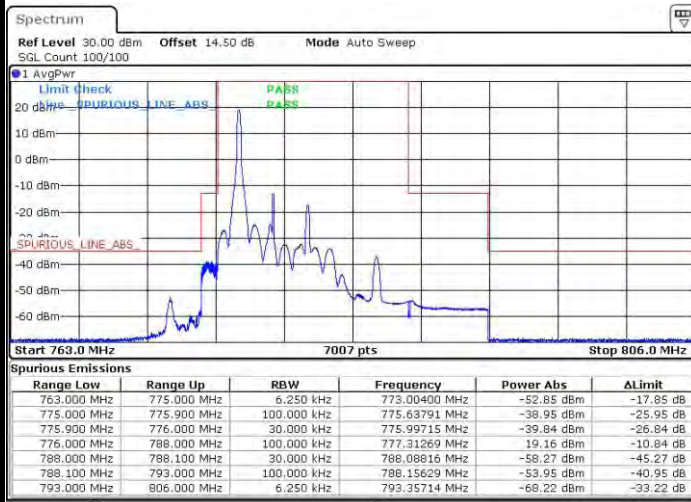


**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



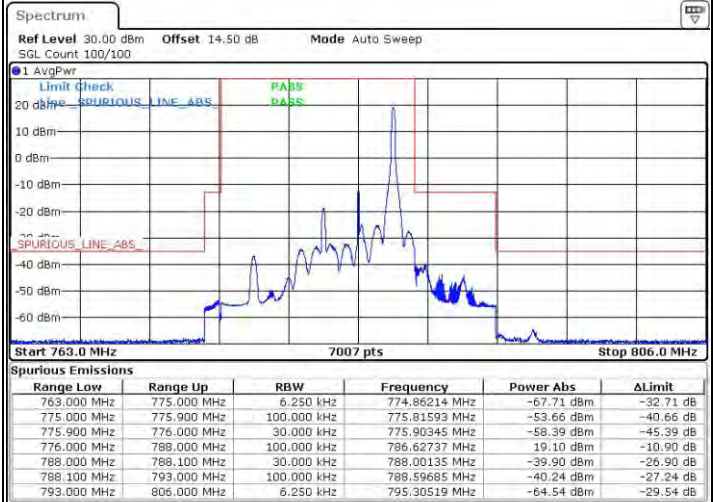
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



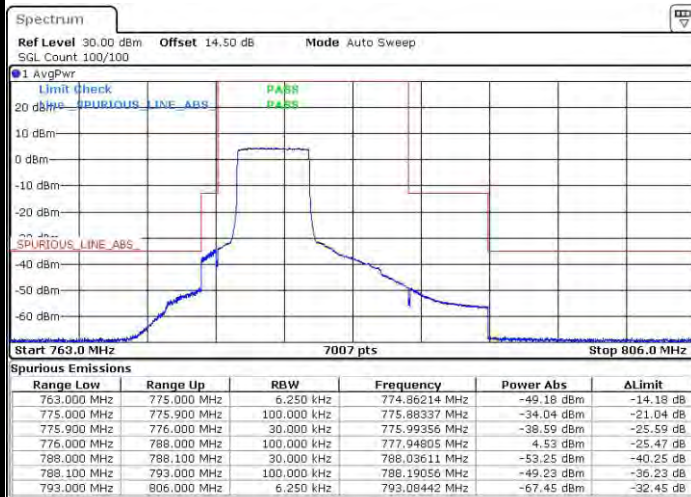
Date: 19.APR.2015 19:52:43

Highest Band Edge / 1 RB



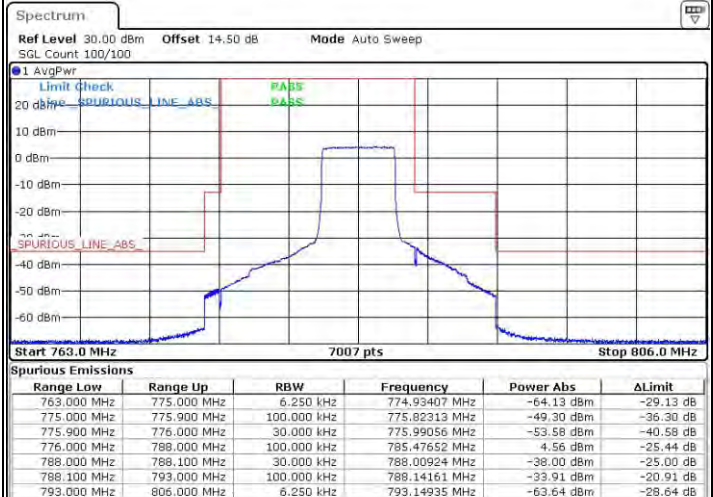
Date: 19.APR.2015 20:01:15

Lowest Band Edge / Full RB



Date: 19.APR.2015 19:56:29

Highest Band Edge / Full RB

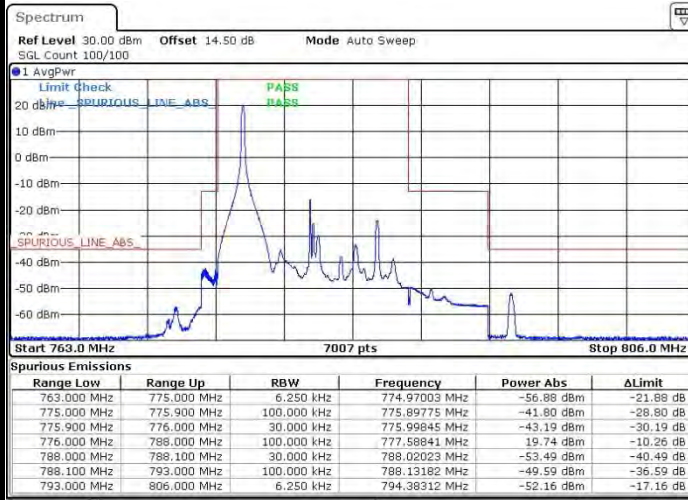


Date: 19.APR.2015 20:04:01



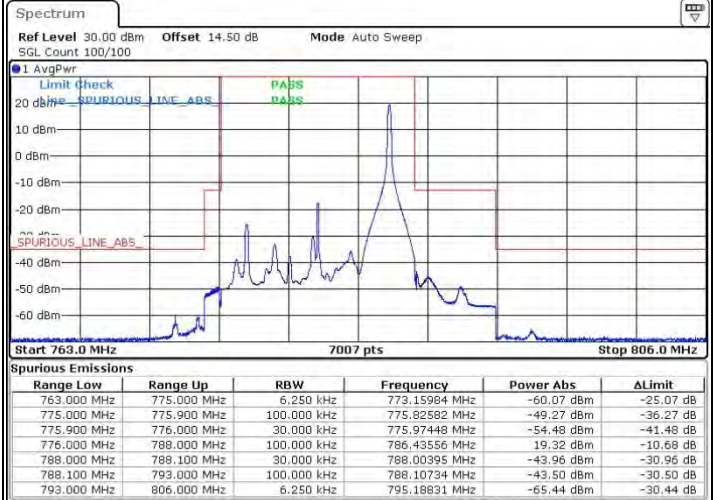
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



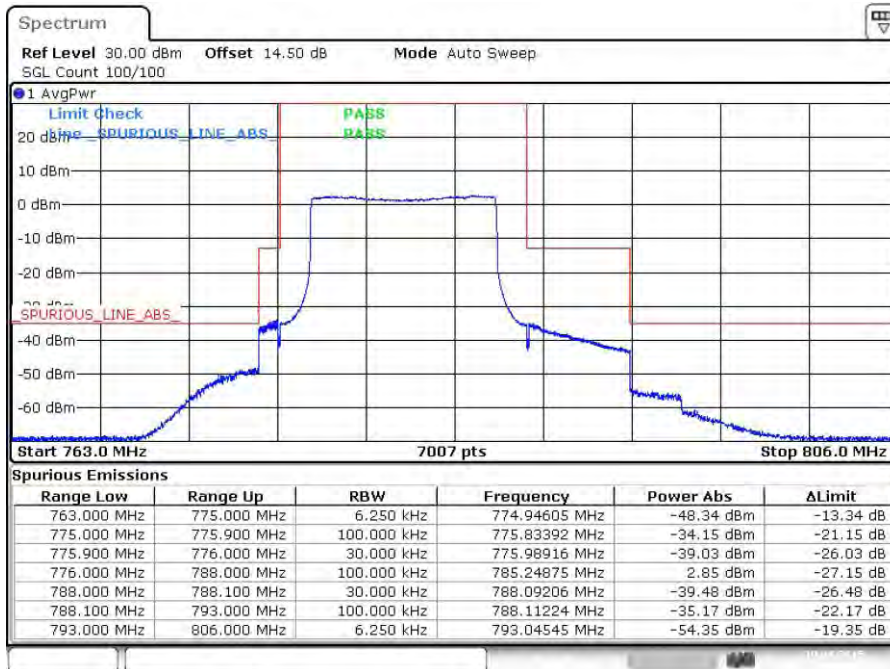
Date: 19.APR.2015 20:05:24

Highest Band Edge / 1 RB



Date: 19.APR.2015 20:10:57

Band Edge / Full RB

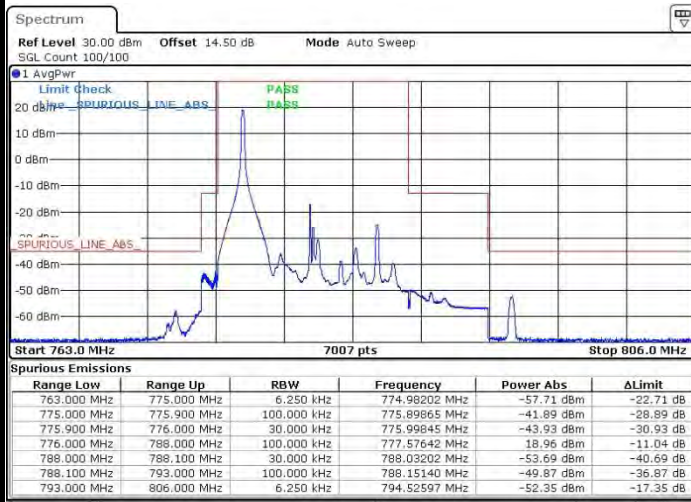


Date: 19.APR.2015 20:08:10



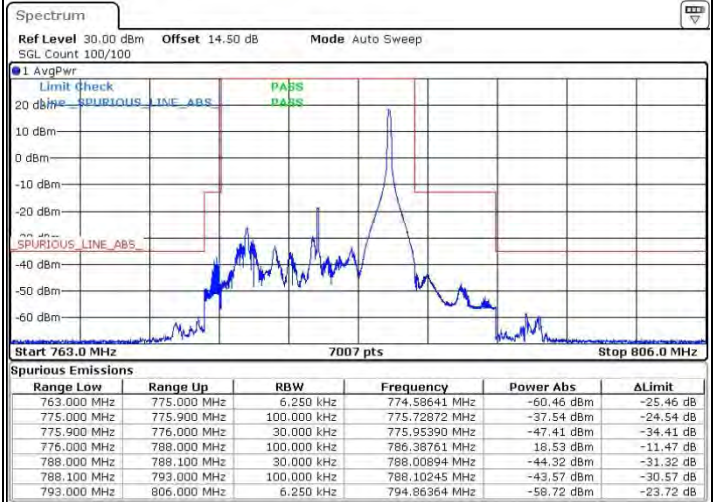
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



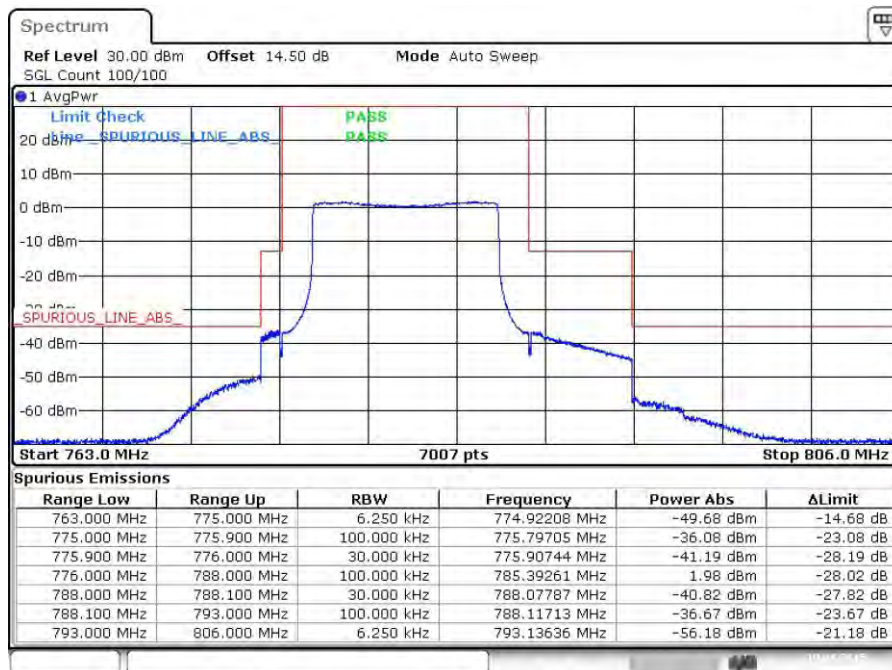
Date: 19.APR.2015 20:06:47

Highest Band Edge / 1 RB



Date: 19.APR.2015 20:12:20

Band Edge / Full RB



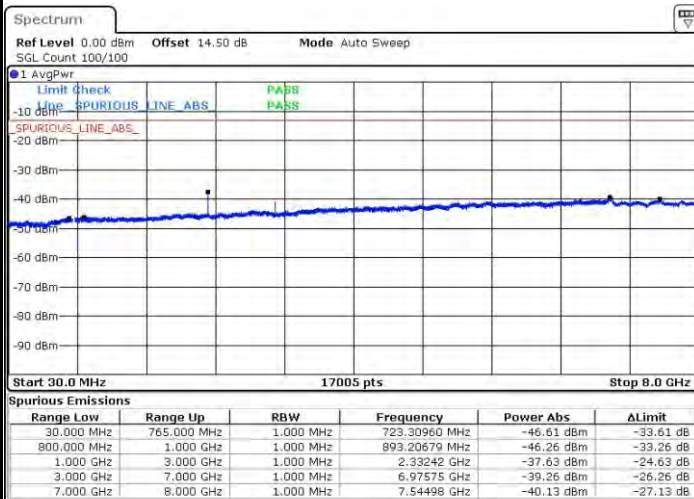
Date: 19.APR.2015 20:09:34



Conducted Spurious Emission

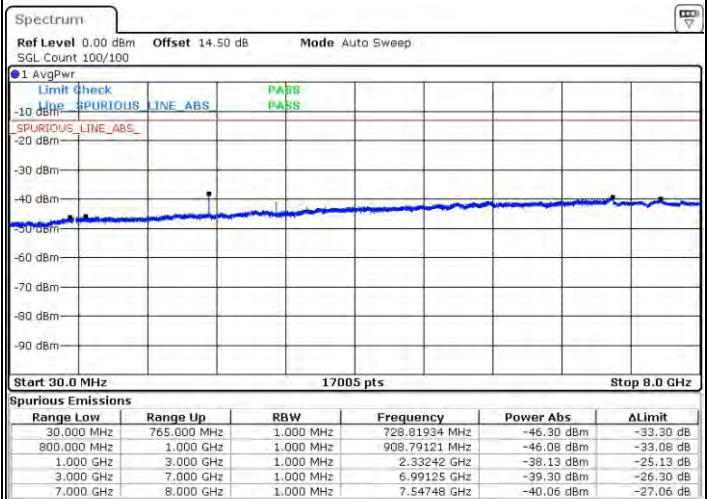
LTE Band 13 / 5MHz

Lowest Channel / QPSK



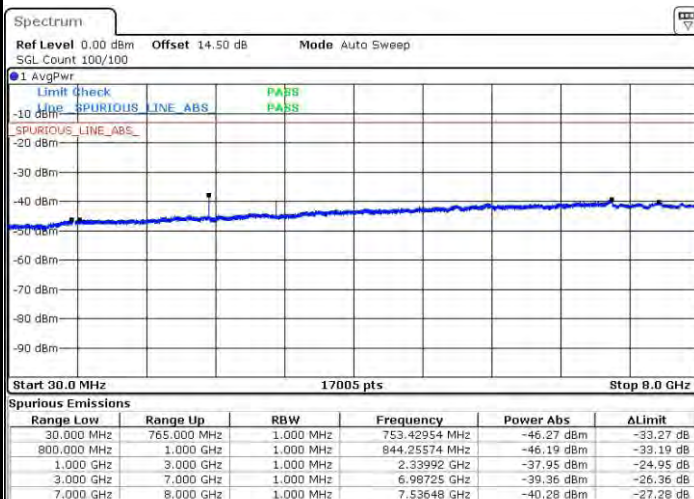
Date: 19.APR.2015 19:38:00

Lowest Channel / 16QAM



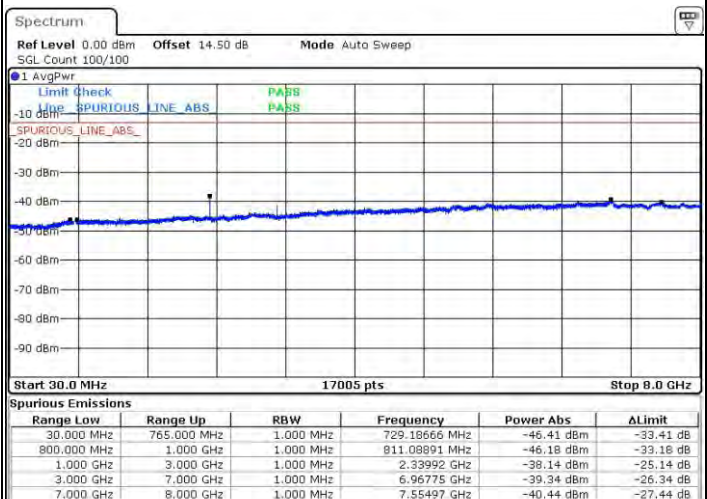
Date: 19.APR.2015 19:39:21

Middle Channel / QPSK



Date: 19.APR.2015 19:40:42

Middle Channel / 16QAM

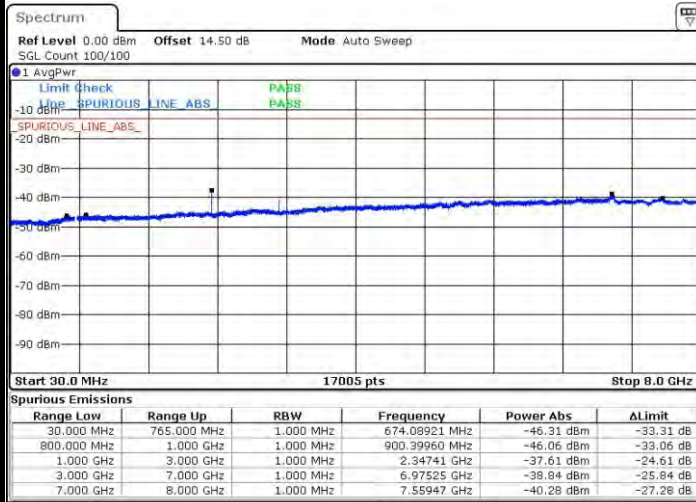


Date: 19.APR.2015 19:42:04



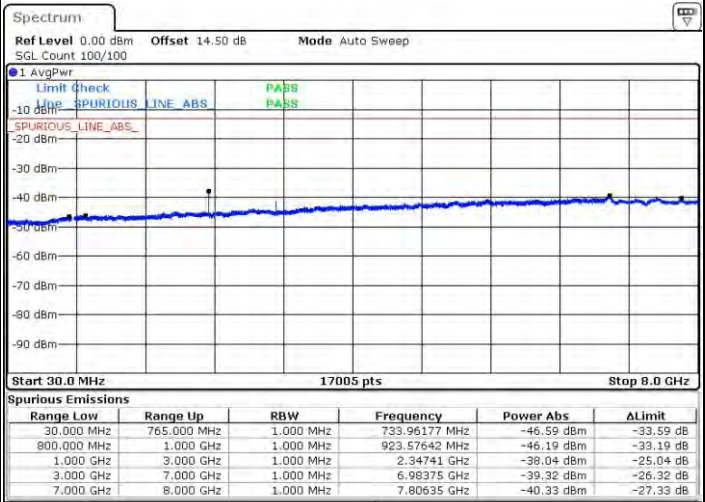
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 19.APR.2015 19:43:25

Highest Channel / 16QAM



Date: 19.APR.2015 19:44:46

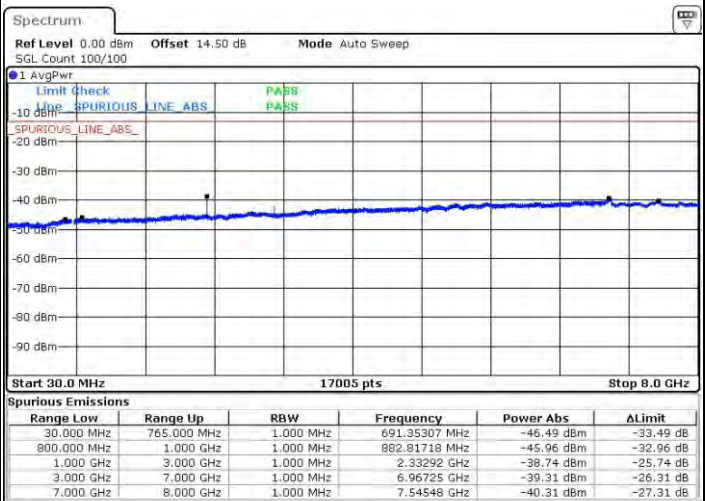
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 19.APR.2015 19:46:07

Middle Channel / 16QAM



Date: 19.APR.2015 19:47:26

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0179	PASS
40	Normal Voltage	0.0166	
30	Normal Voltage	0.0153	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0192	
-20	Normal Voltage	0.0179	
-30	Normal Voltage	0.0166	
20	Maximum Voltage	0.0166	
20	Normal Voltage	0.0166	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage = 3.3V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage =4.4 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 17

Conducted Output Power(Average power)

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.01	22.20	22.06
5	1	12		21.91	22.24	22.04
5	1	24		21.79	22.04	22.00
5	12	0		21.04	21.22	21.11
5	12	6		20.95	21.25	21.12
5	12	11		21.01	21.15	21.11
5	25	0		20.95	21.18	21.14
5	1	0	16-QAM	21.16	21.41	21.06
5	1	12		21.17	21.30	21.08
5	1	24		21.07	21.11	21.03
5	12	0		20.16	20.38	20.15
5	12	6		20.14	20.30	20.22
5	12	11		20.14	20.34	20.22
5	25	0		20.16	20.35	20.19
10	1	0	QPSK	22.08	22.08	22.18
10	1	24		22.11	22.27	22.19
10	1	49		21.85	22.15	22.02
10	25	0		20.93	21.46	21.26
10	25	12		21.02	21.29	21.27
10	25	24		20.94	21.23	21.24
10	50	0		20.97	21.22	21.25
10	1	0	16-QAM	21.66	21.85	21.82
10	1	24		21.60	21.76	21.81
10	1	49		21.40	21.79	21.60
10	25	0		20.18	20.30	20.39
10	25	12		20.12	20.36	20.34
10	25	24		20.06	20.30	20.29
10	50	0		20.18	20.38	20.29



Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	4.90	5.04	5.94	5.97	PASS
Middle CH	4.67	5.13	5.25	6.20	
Highest CH	4.96	5.13	5.97	6.00	