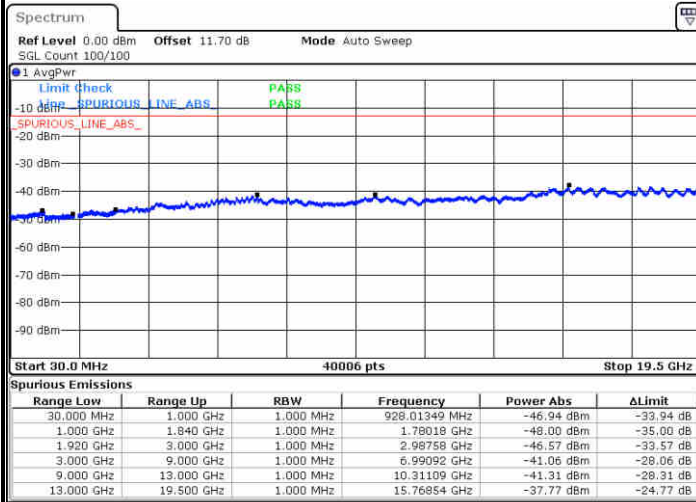




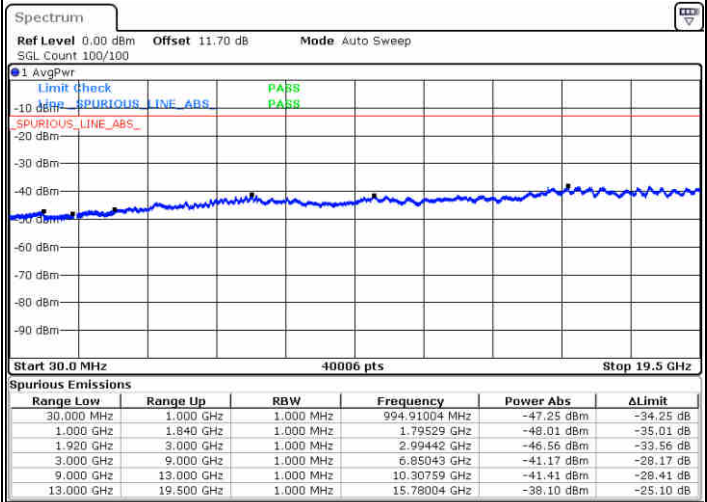
LTE Band 2 / 3MHz

Lowest Channel / 64QAM



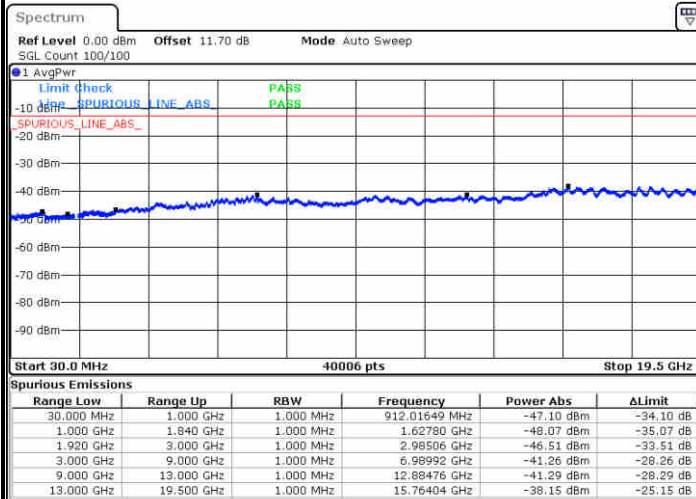
Date: 30 SEP.2017 17:06:29

Middle Channel / 64QAM



Date: 30 SEP.2017 17:07:43

Highest Channel / 64QAM

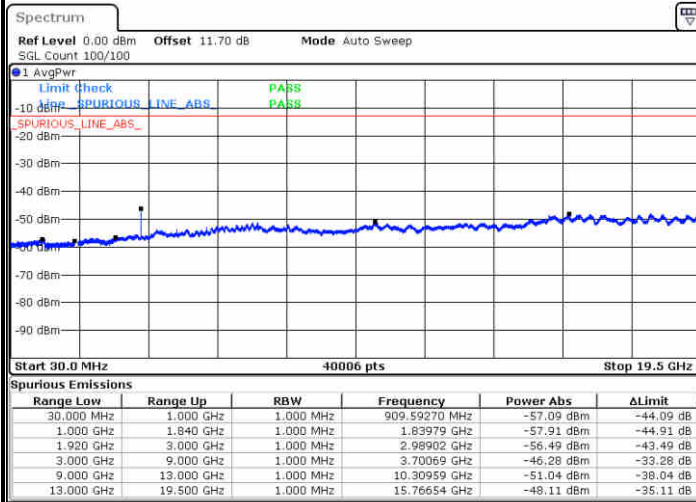


Date: 30 SEP.2017 17:11:14



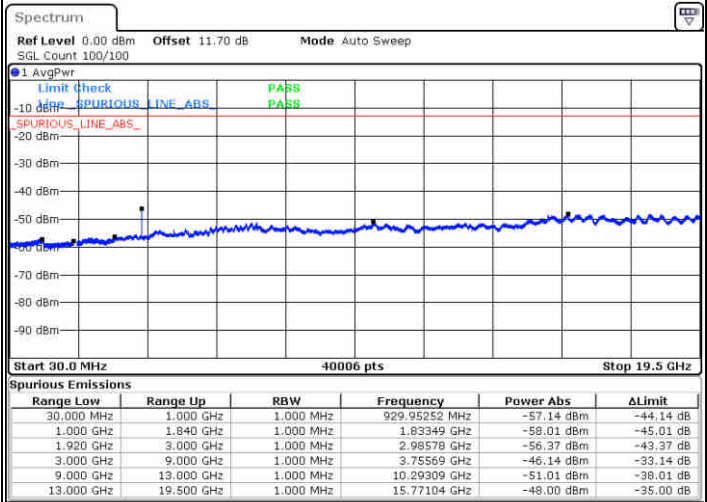
LTE Band 2 / 5MHz

Lowest Channel / 64QAM



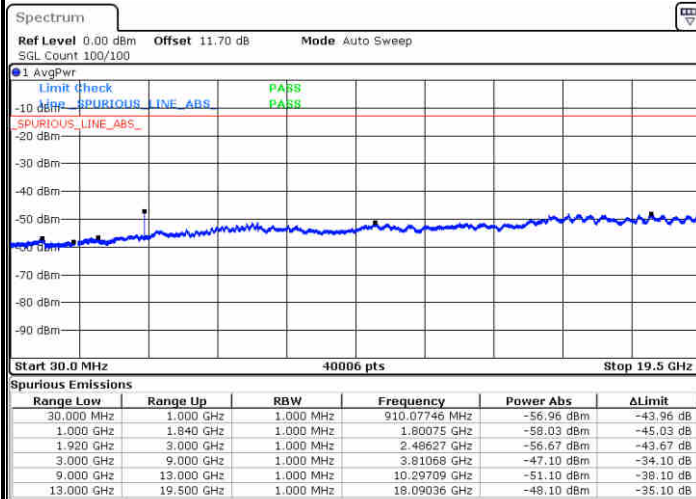
Date: 30 SEP.2017 17:14:46

Middle Channel / 64QAM



Date: 30 SEP.2017 17:16:00

Highest Channel / 64QAM

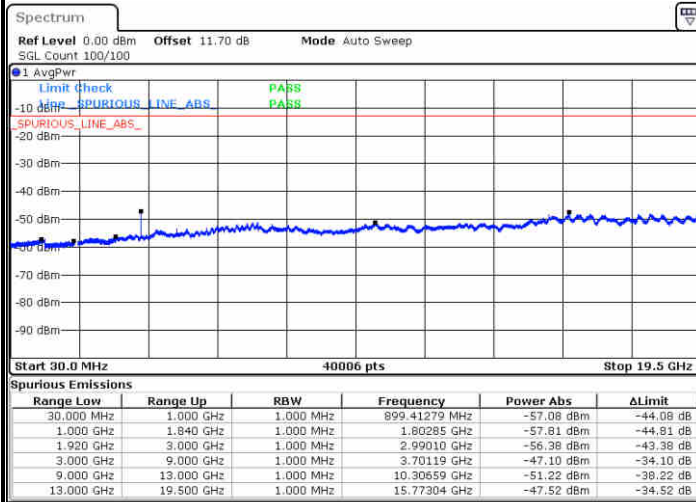


Date: 30 SEP.2017 17:19:31



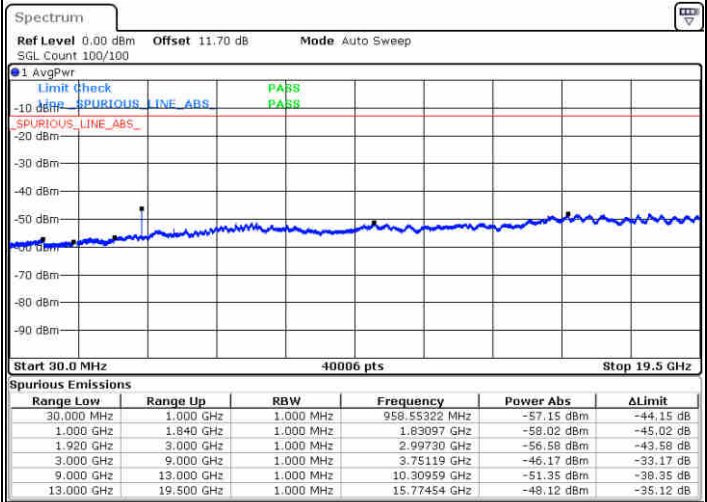
LTE Band 2 / 10MHz

Lowest Channel / 64QAM



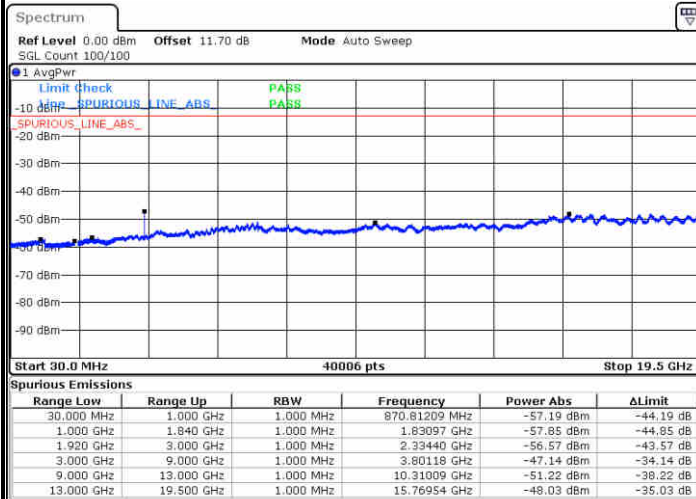
Date: 30 SEP.2017 17:23:03

Middle Channel / 64QAM



Date: 30 SEP.2017 17:24:17

Highest Channel / 64QAM

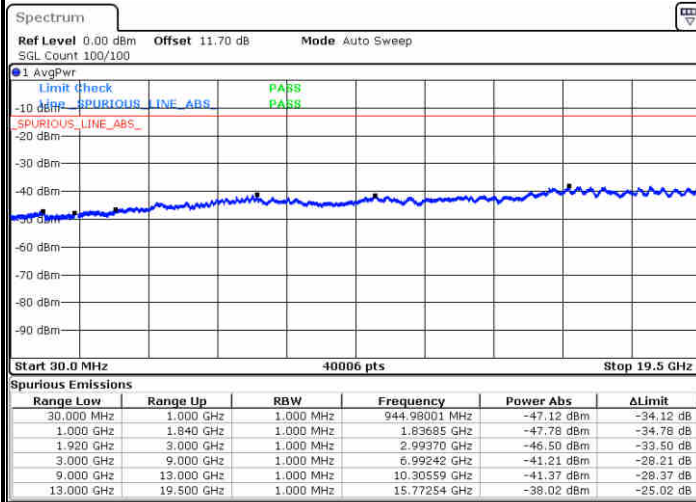


Date: 30 SEP.2017 17:27:48



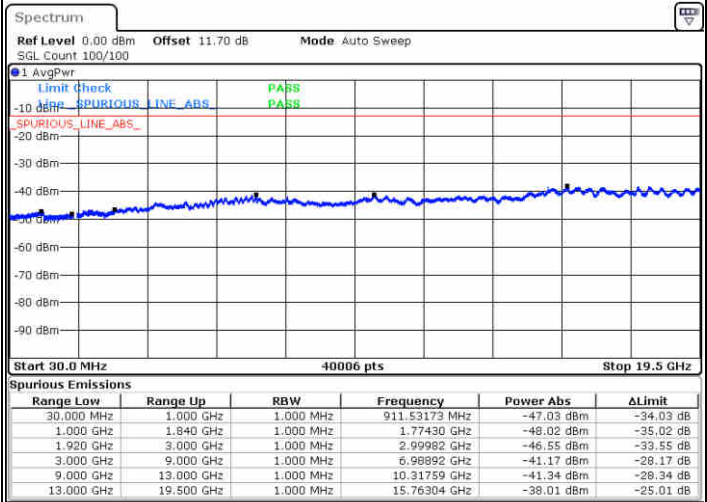
LTE Band 2 / 15MHz

Lowest Channel / 64QAM



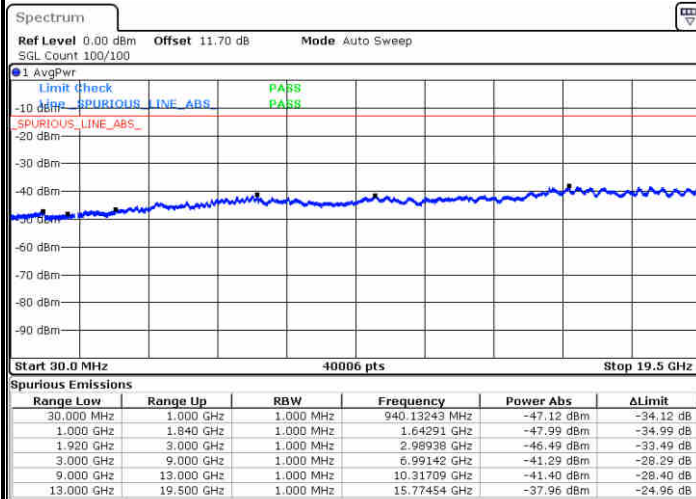
Date: 30 SEP. 2017 17:31:20

Middle Channel / 64QAM



Date: 30 SEP. 2017 17:32:33

Highest Channel / 64QAM

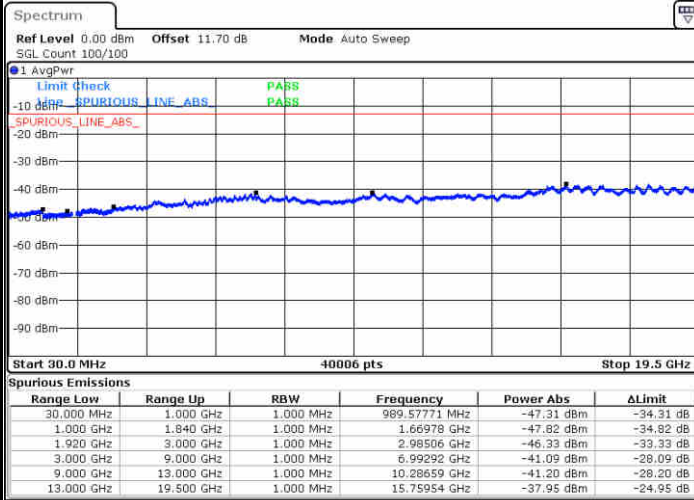


Date: 30 SEP. 2017 17:36:05



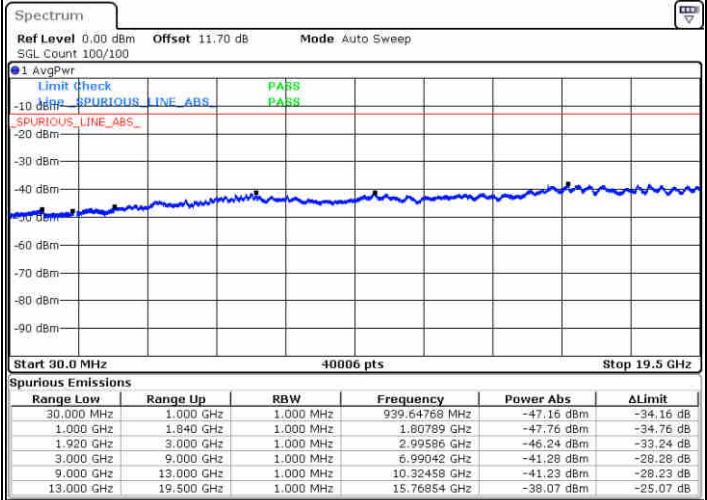
LTE Band 2 / 20MHz

Lowest Channel / 64QAM



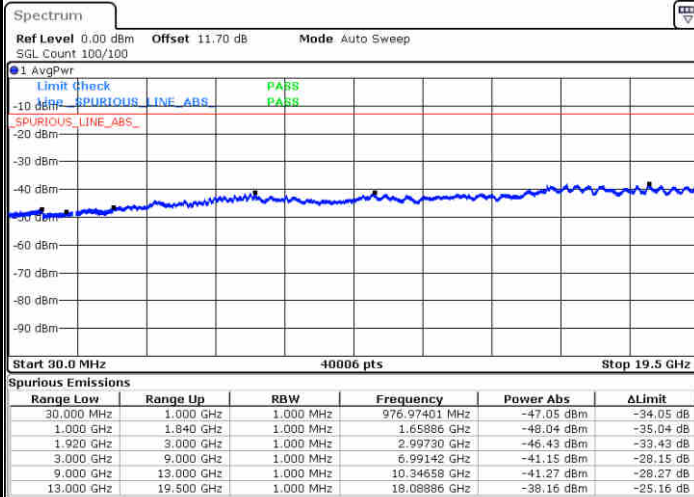
Date: 30 SEP.2017 17:39:36

Middle Channel / 64QAM



Date: 30 SEP.2017 17:40:50

Highest Channel / 64QAM



Date: 30 SEP.2017 18:15:10

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0044	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =4.4 V.
2. 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	4.52	4.75	5.25	5.83	PASS
Middle CH	4.49	5.01	5.33	5.94	
Highest CH	4.32	4.93	4.99	5.86	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.38	6.32	-	-	PASS
Middle CH	6.17	6.41	-	-	
Highest CH	6	6.26	-	-	

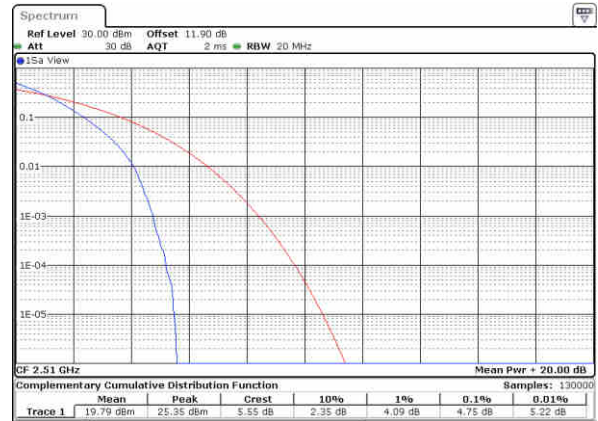


LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB

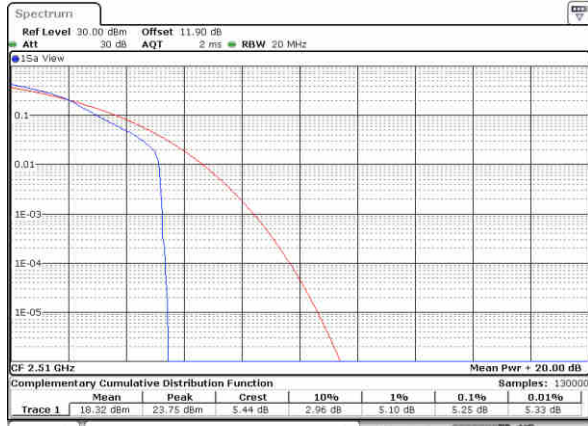


Highest Channel / 1RB

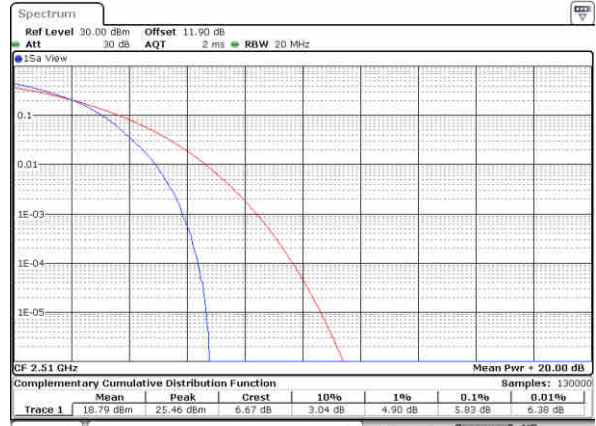


Highest Channel / Full RB

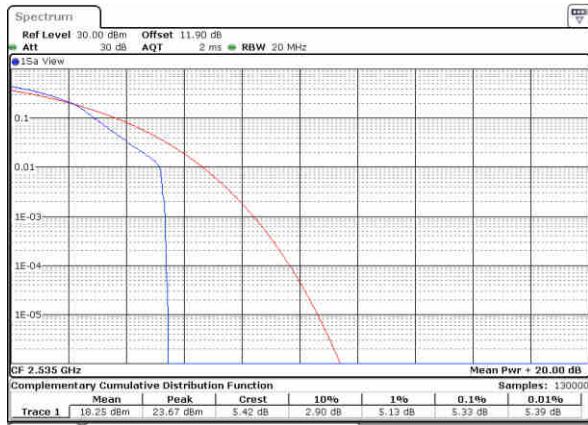


LTE Band 7 / 20MHz / 16QAM
Lowest Channel / 1RB


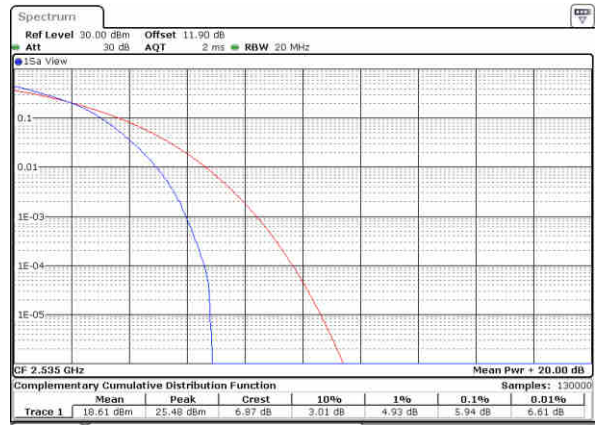
Date: 27 SEP 2017 01:59:22

Lowest Channel / Full RB


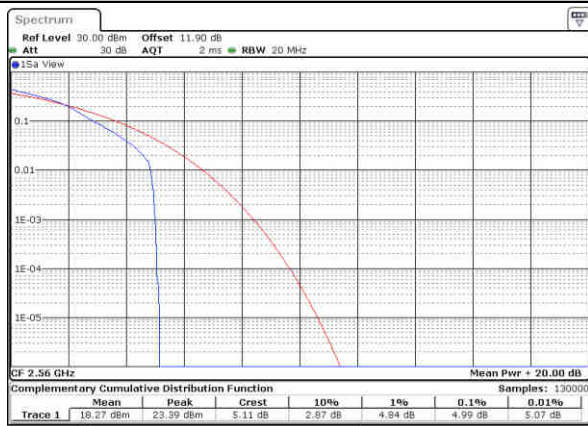
Date: 27 SEP 2017 01:59:31

Middle Channel / 1RB


Date: 27 SEP 2017 01:59:42

Middle Channel / Full RB


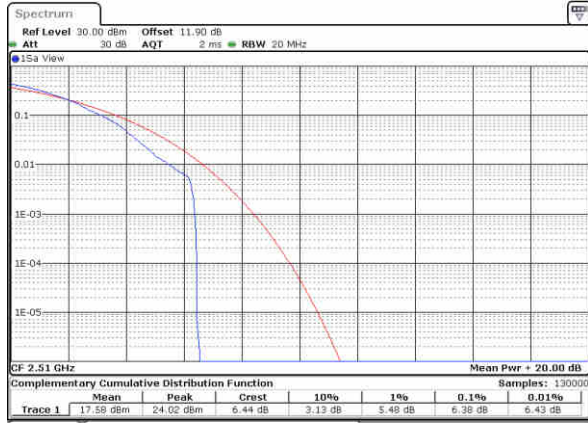
Date: 27 SEP 2017 01:59:51

Highest Channel / 1RB


Date: 27 SEP 2017 01:59:59

Highest Channel / Full RB

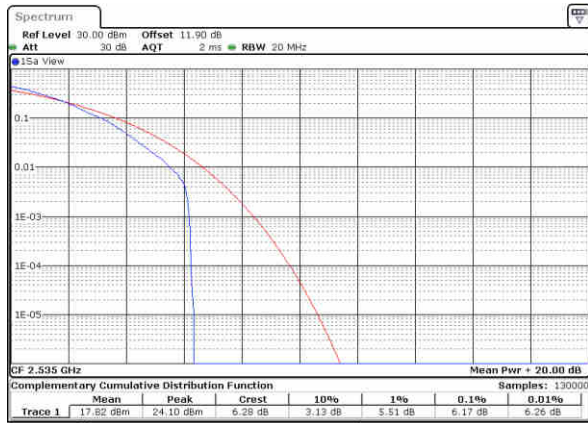

Date: 27 SEP 2017 02:00:09

LTE Band 7 / 20MHz / 64QAM
Lowest Channel / 1RB


Date: 30 SEP 2017 15:38:18

Lowest Channel / Full RB


Date: 30 SEP 2017 15:38:27

Middle Channel / 1RB


Date: 30 SEP 2017 15:38:37

Middle Channel / Full RB


Date: 30 SEP 2017 15:38:47

Highest Channel / 1RB


Date: 30 SEP 2017 15:38:57

Highest Channel / Full RB


Date: 30 SEP 2017 15:39:12

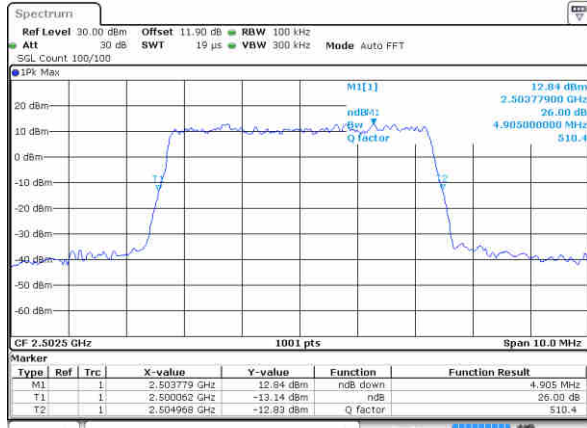
**26dB Bandwidth**

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	-	-	-	-	4.905	4.915	9.73	9.65	14.326	14.326	20.14	20.02
Middle CH	-	-	-	-	4.975	4.835	9.61	9.83	14.565	14.535	20.22	20.1
Highest CH	-	-	-	-	4.935	4.935	9.77	9.95	14.266	14.356	20.1	20.22
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.89	-	9.93	-	14.48	-	20.06	-
Middle CH	-	-	-	-	4.94	-	9.85	-	14.57	-	20.18	-
Highest CH	-	-	-	-	4.81	-	9.95	-	14.24	-	20.14	-



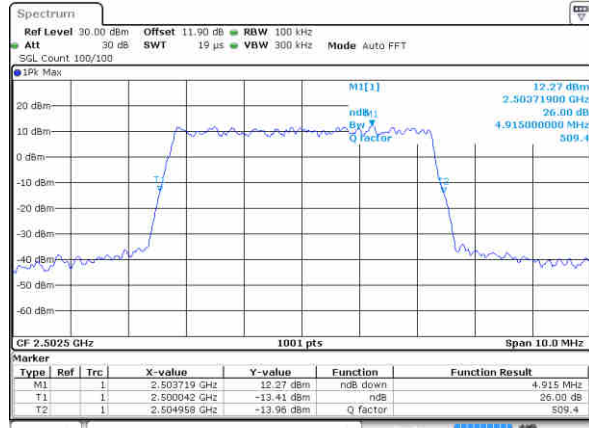
LTE Band 7

Lowest Channel / 5MHz / QPSK



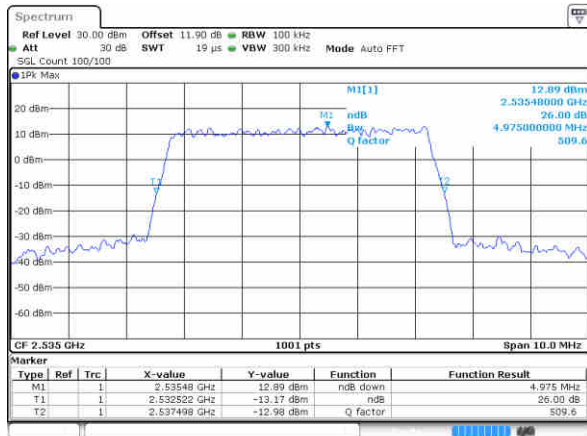
Date: 27 SEP 2017 00:52:01

Lowest Channel / 5MHz / 16QAM



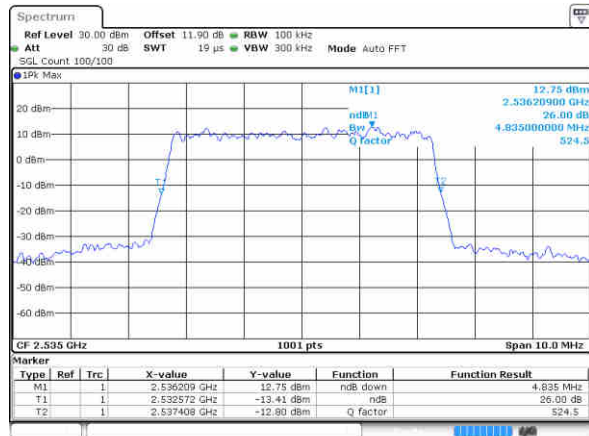
Date: 27 SEP 2017 00:52:11

Middle Channel / 5MHz / QPSK



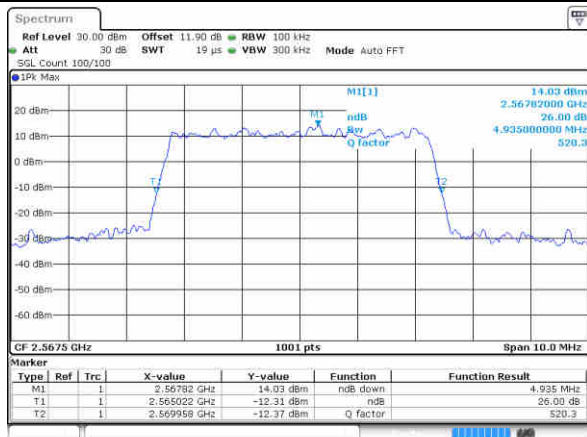
Date: 27 SEP 2017 00:58:05

Middle Channel / 5MHz / 16QAM



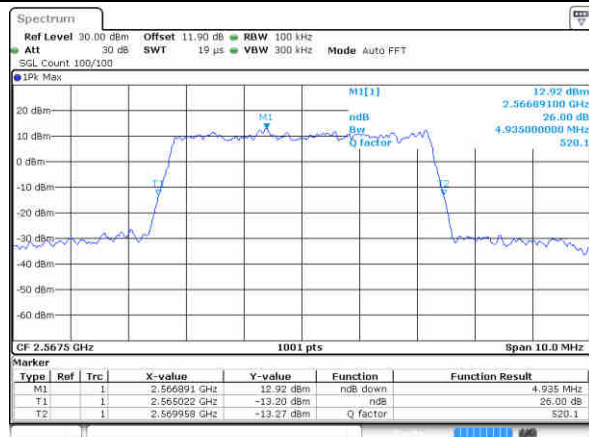
Date: 27 SEP 2017 00:58:15

Highest Channel / 5MHz / QPSK



Date: 27 SEP 2017 01:01:32

Highest Channel / 5MHz / 16QAM

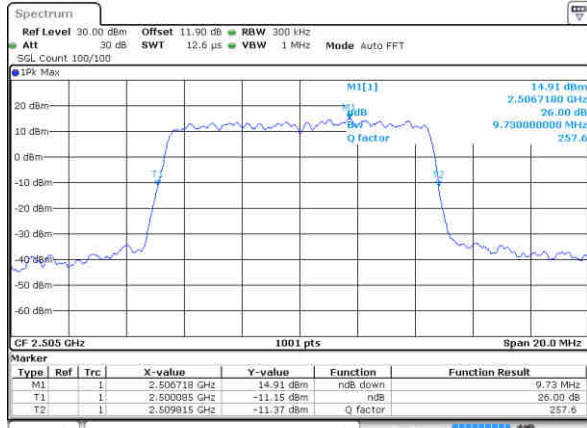


Date: 27 SEP 2017 01:01:42



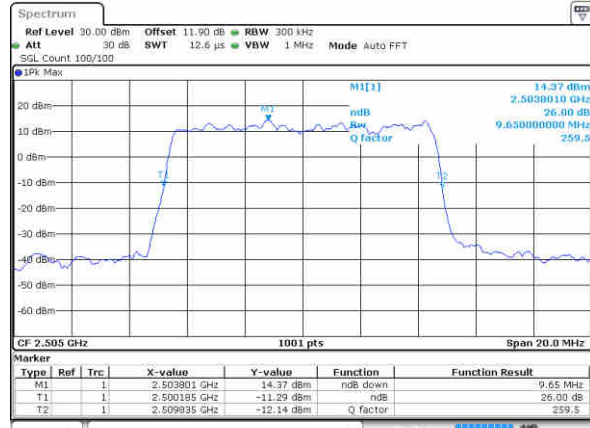
LTE Band 7

Lowest Channel / 10MHz / QPSK



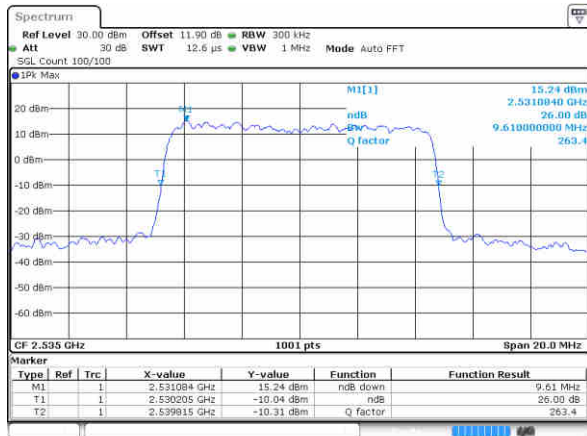
Date: 27 SEP 2017 01:08:35

Lowest Channel / 10MHz / 16QAM



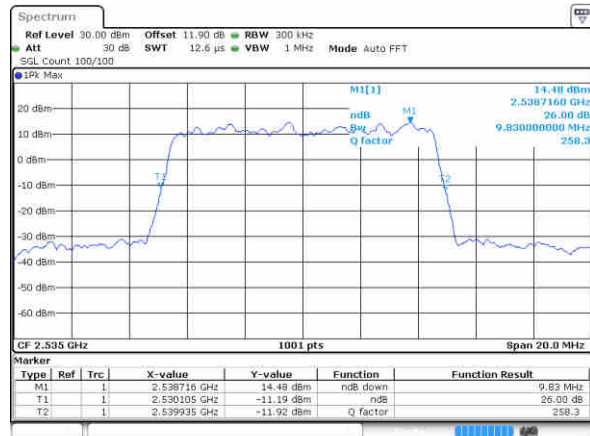
Date: 27 SEP 2017 01:08:45

Middle Channel / 10MHz / QPSK



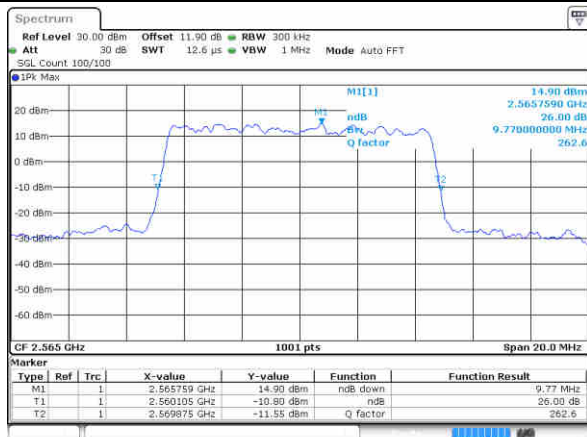
Date: 27 SEP 2017 01:15:39

Middle Channel / 10MHz / 16QAM



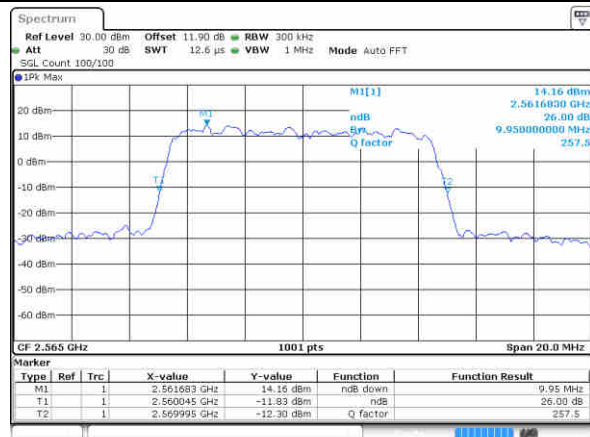
Date: 27 SEP 2017 01:15:49

Highest Channel / 10MHz / QPSK



Date: 27 SEP 2017 01:18:06

Highest Channel / 10MHz / 16QAM

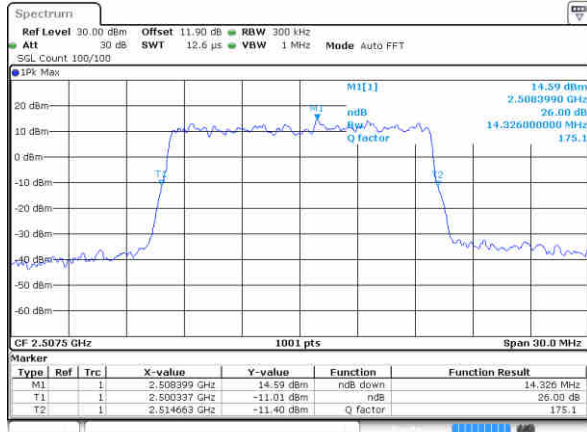


Date: 27 SEP 2017 01:18:16

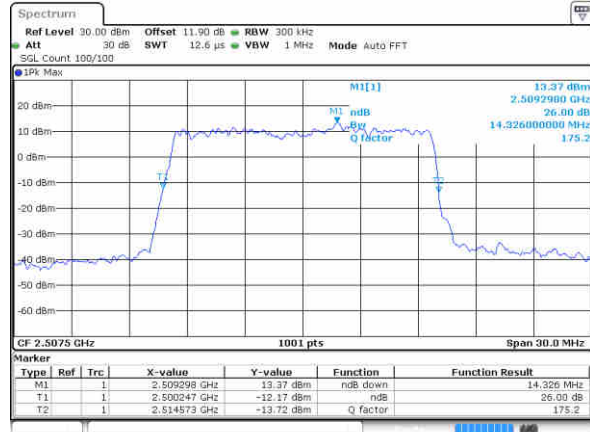


LTE Band 7

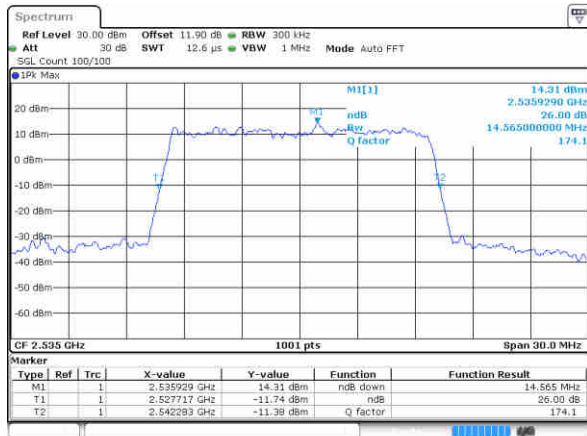
Lowest Channel / 15MHz / QPSK



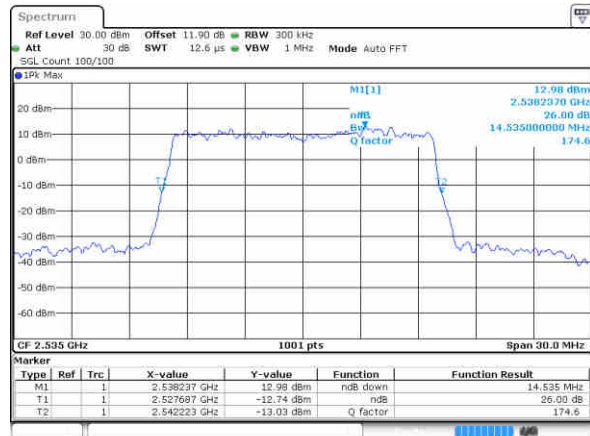
Lowest Channel / 15MHz / 16QAM



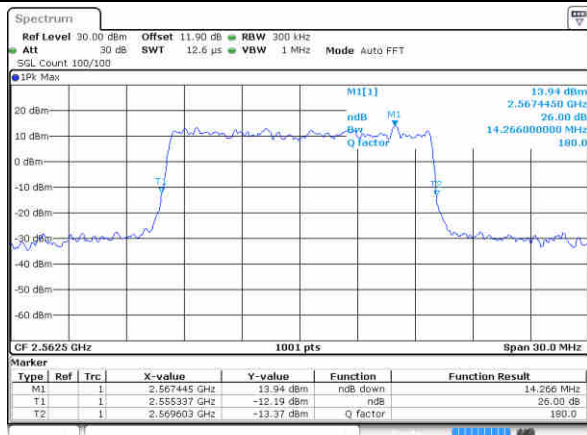
Middle Channel / 15MHz / QPSK



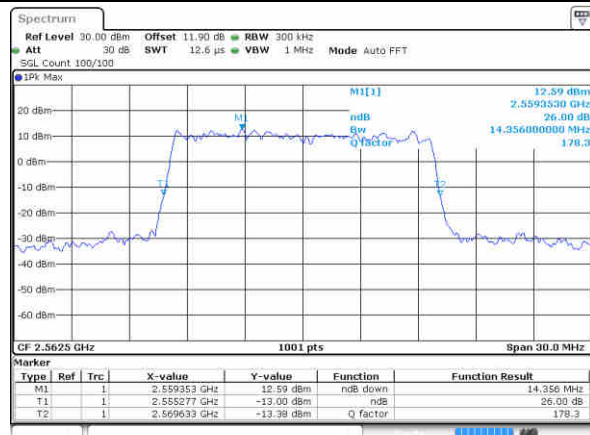
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



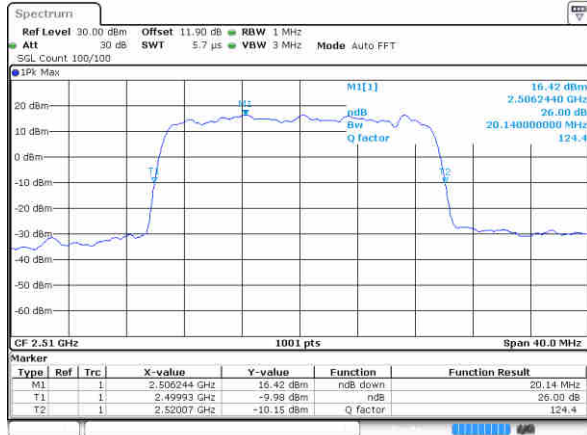
Highest Channel / 15MHz / 16QAM



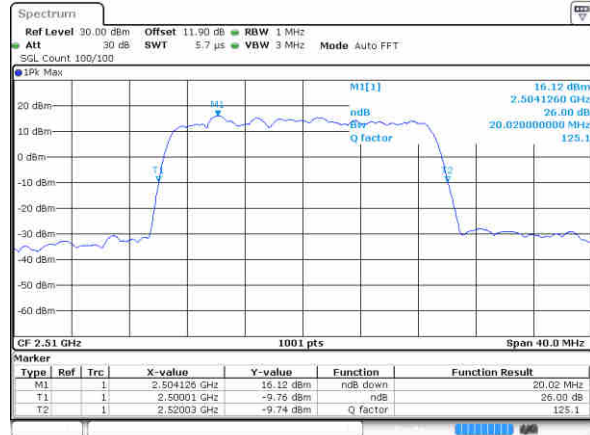


LTE Band 7

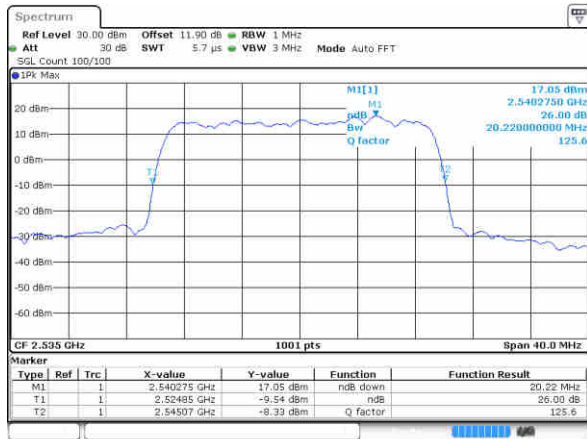
Lowest Channel / 20MHz / QPSK



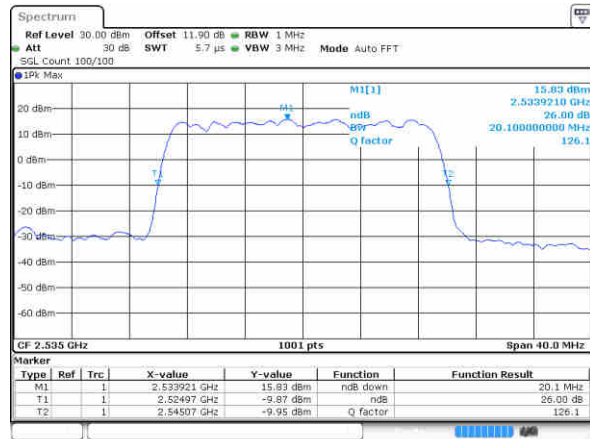
Lowest Channel / 20MHz / 16QAM



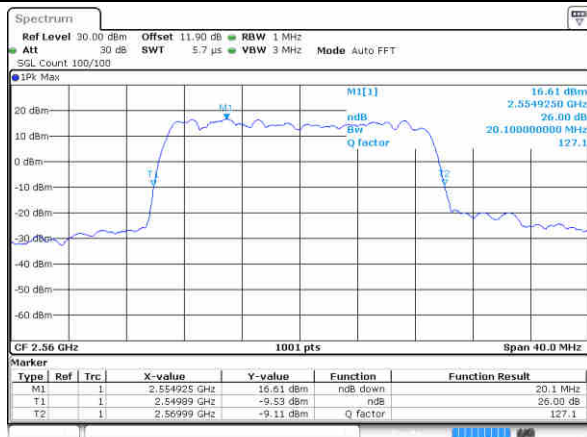
Middle Channel / 20MHz / QPSK



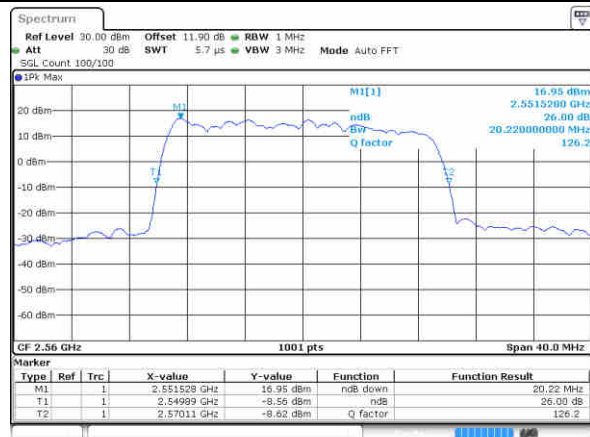
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



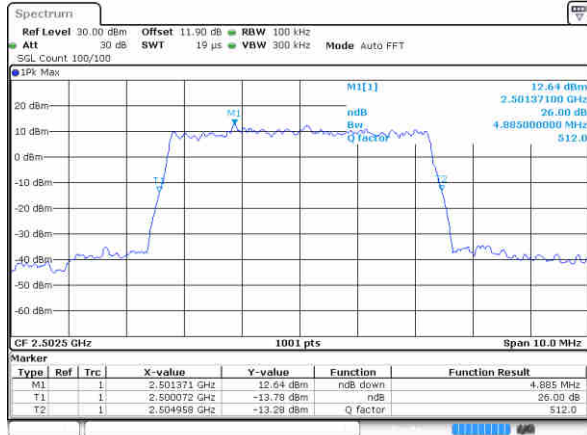
Highest Channel / 20MHz / 16QAM



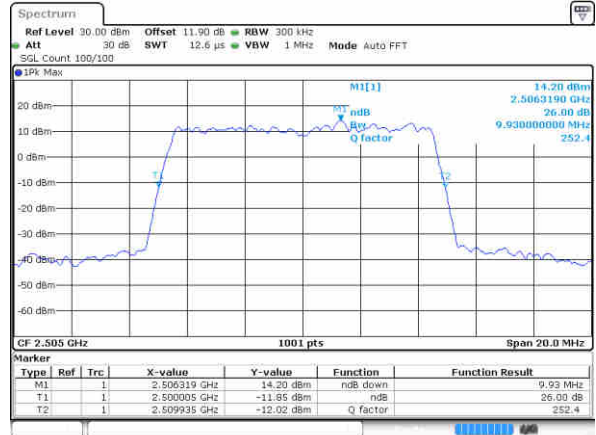


LTE Band 7

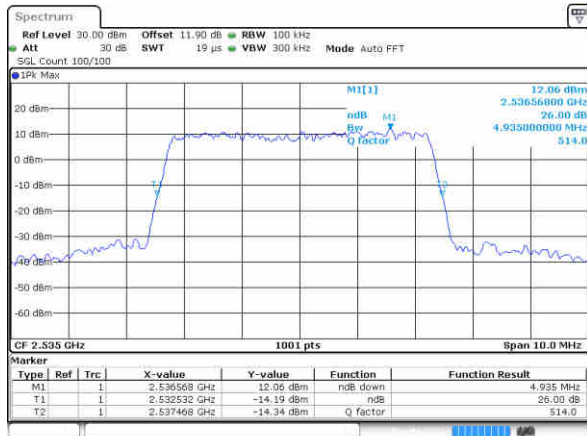
Lowest Channel / 5MHz / 64QAM



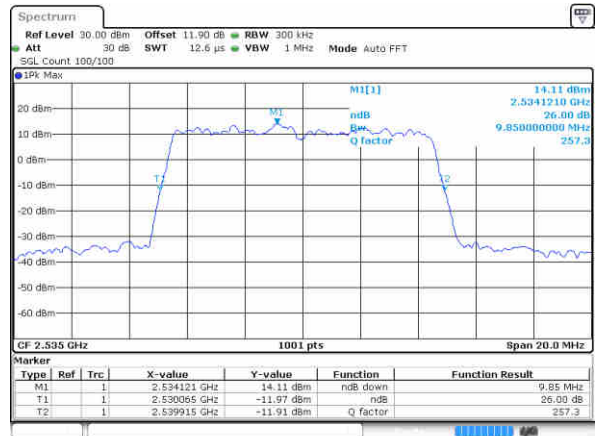
Lowest Channel / 10MHz / 64QAM



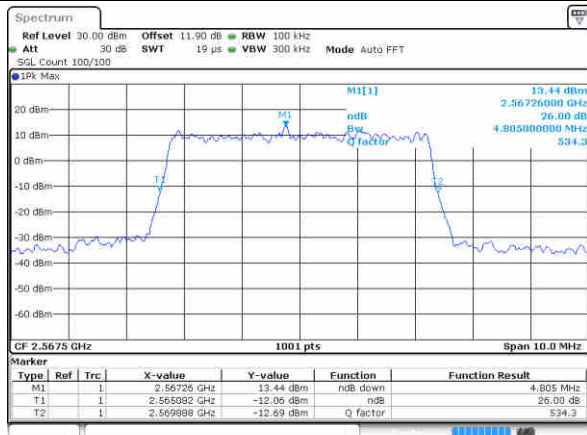
Middle Channel / 5MHz / 64QAM



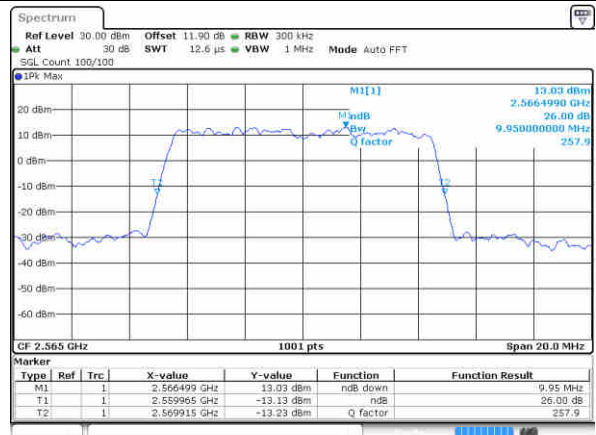
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



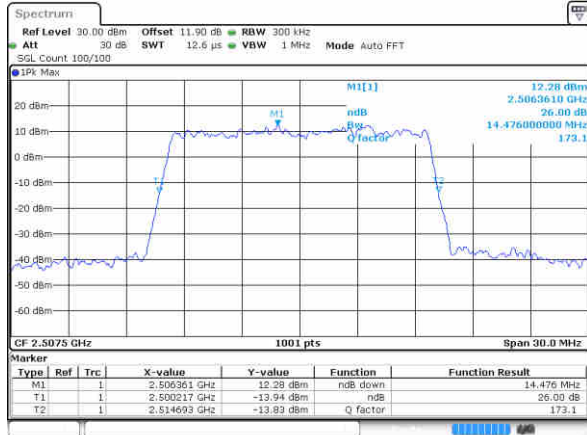
Highest Channel / 10MHz / 64QAM



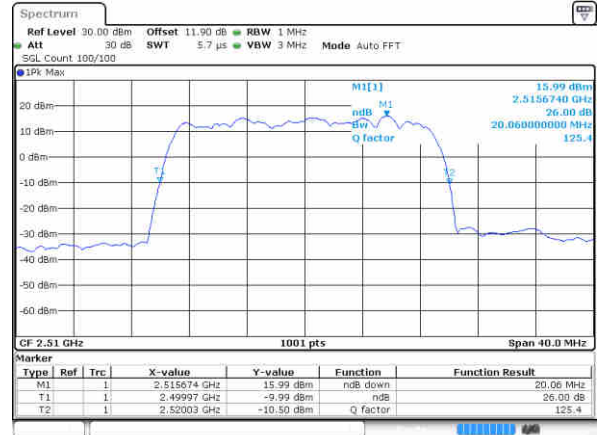


LTE Band 7

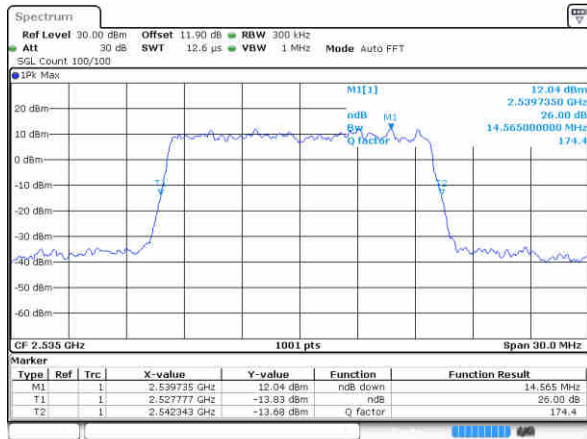
Lowest Channel / 15MHz / 64QAM



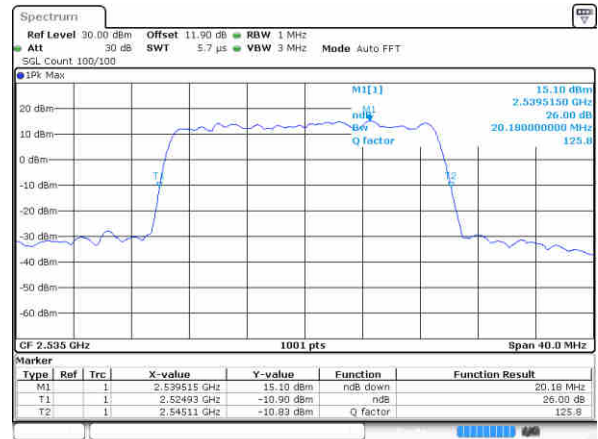
Lowest Channel / 20MHz / 64QAM



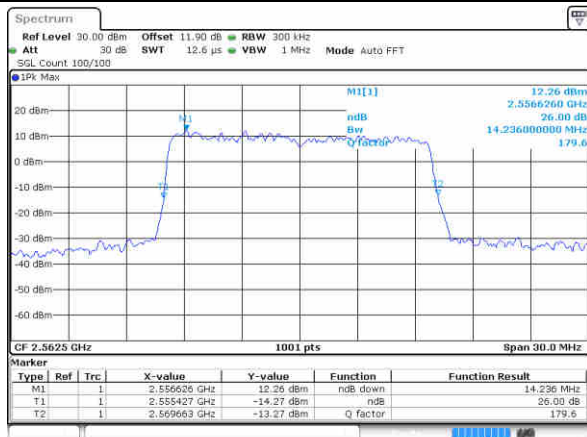
Middle Channel / 15MHz / 64QAM



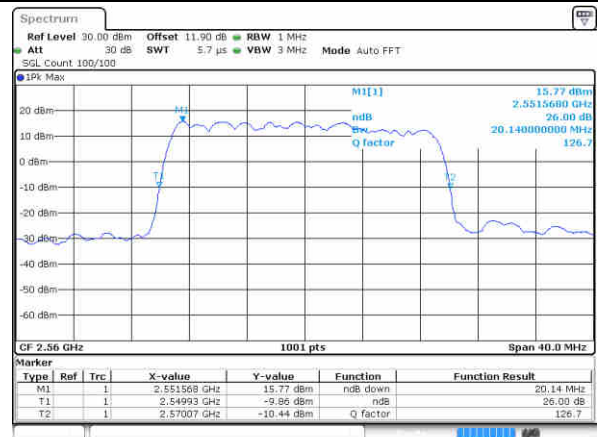
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



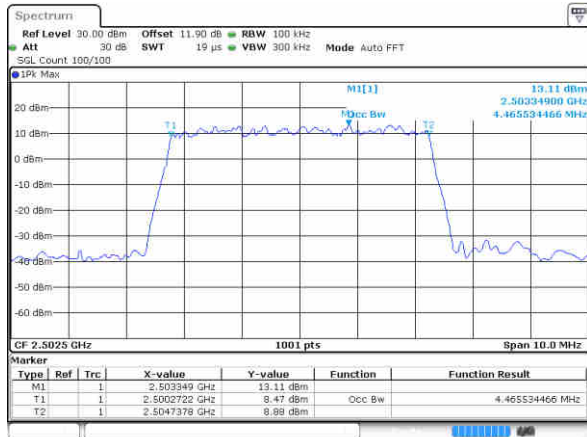
**Occupied Bandwidth**

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	-	-	-	-	4.47	4.47	9.11	9.01	13.4	13.37	18.22	18.26
Middle CH	-	-	-	-	4.5	4.5	8.99	8.99	13.43	13.49	18.34	18.5
Highest CH	-	-	-	-	4.5	4.49	9.03	9.03	13.46	13.43	18.5	18.38
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.5	-	9.01	-	13.46	-	18.34	-
Middle CH	-	-	-	-	4.49	-	9.03	-	13.46	-	18.38	-
Highest CH	-	-	-	-	4.46	-	9.05	-	13.46	-	18.46	-



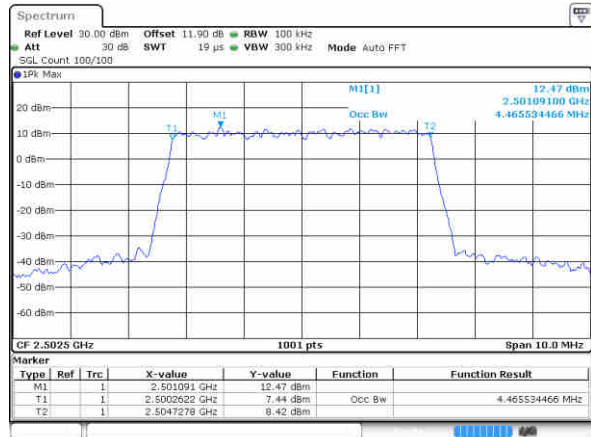
LTE Band 7

Lowest Channel / 5MHz / QPSK



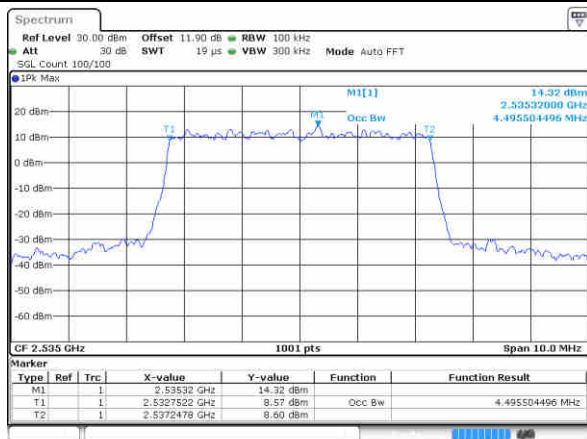
Date: 27 SEP 2017 00:51:41

Lowest Channel / 5MHz / 16QAM



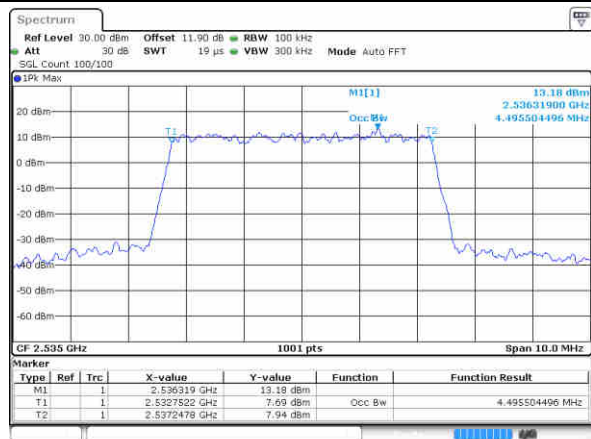
Date: 27 SEP 2017 00:51:51

Middle Channel / 5MHz / QPSK



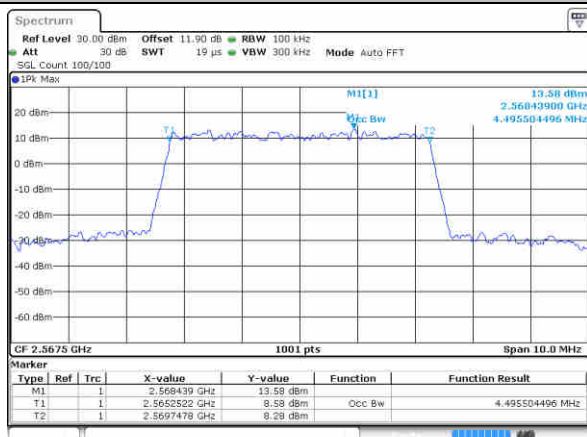
Date: 27 SEP 2017 00:58:45

Middle Channel / 5MHz / 16QAM



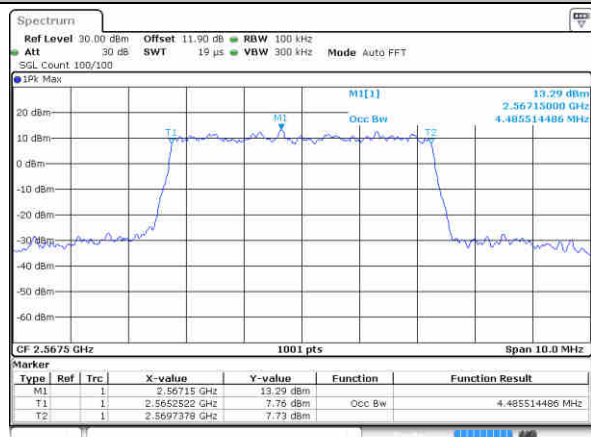
Date: 27 SEP 2017 00:58:55

Highest Channel / 5MHz / QPSK



Date: 27 SEP 2017 01:01:12

Highest Channel / 5MHz / 16QAM

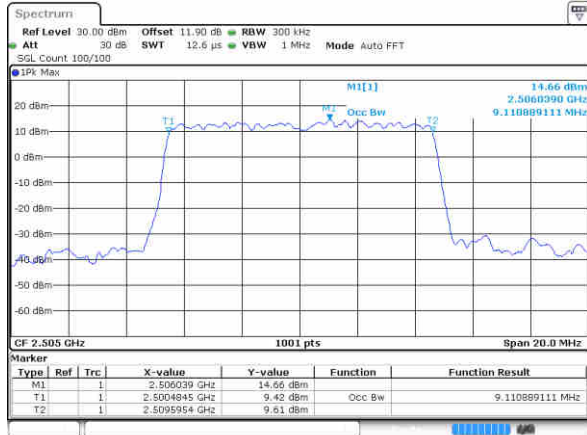


Date: 27 SEP 2017 01:01:22



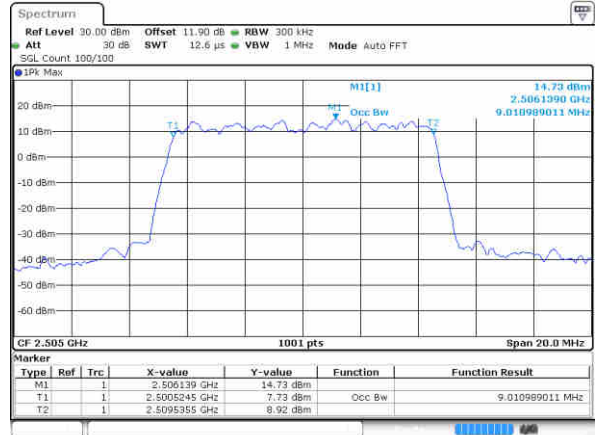
LTE Band 7

Lowest Channel / 10MHz / QPSK



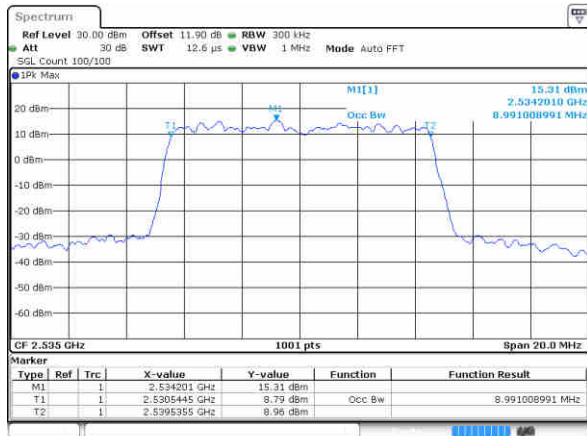
Date: 27 SEP 2017 01:08:15

Lowest Channel / 10MHz / 16QAM



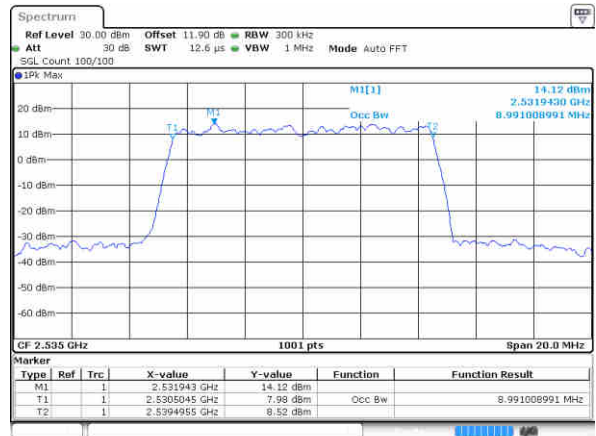
Date: 27 SEP 2017 01:08:25

Middle Channel / 10MHz / QPSK



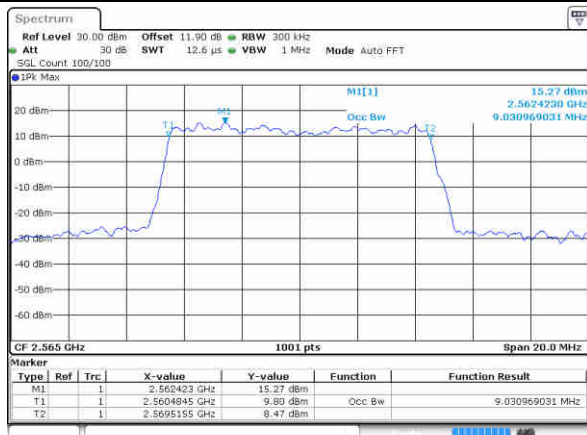
Date: 27 SEP 2017 01:15:19

Middle Channel / 10MHz / 16QAM



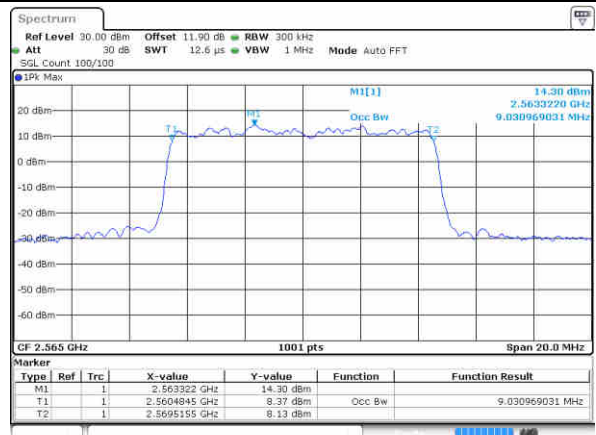
Date: 27 SEP 2017 01:15:29

Highest Channel / 10MHz / QPSK



Date: 27 SEP 2017 01:17:45

Highest Channel / 10MHz / 16QAM

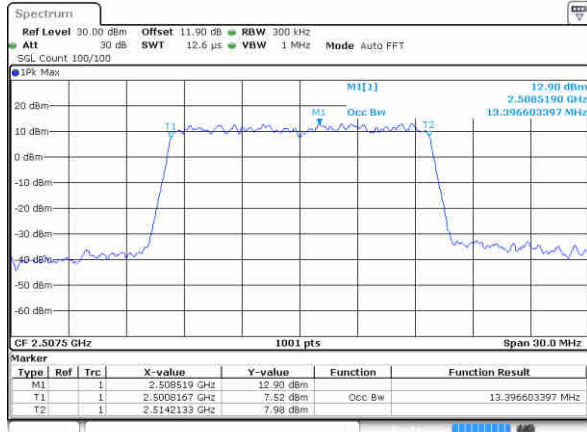


Date: 27 SEP 2017 01:17:56

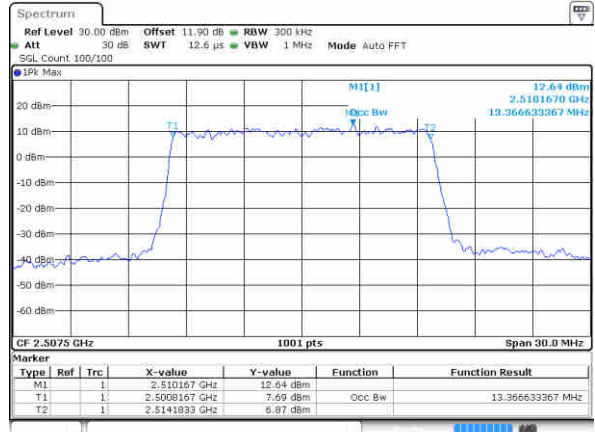


LTE Band 7

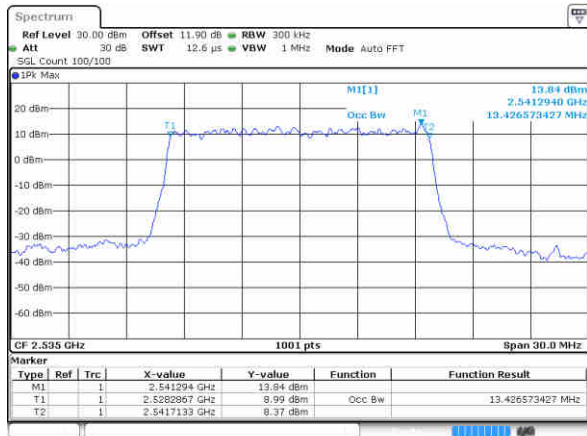
Lowest Channel / 15MHz / QPSK



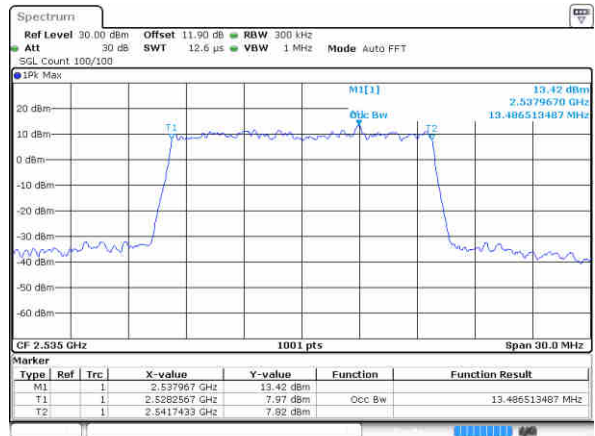
Lowest Channel / 15MHz / 16QAM



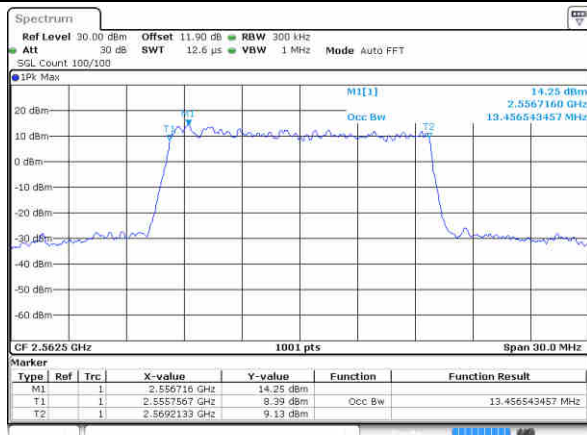
Middle Channel / 15MHz / QPSK



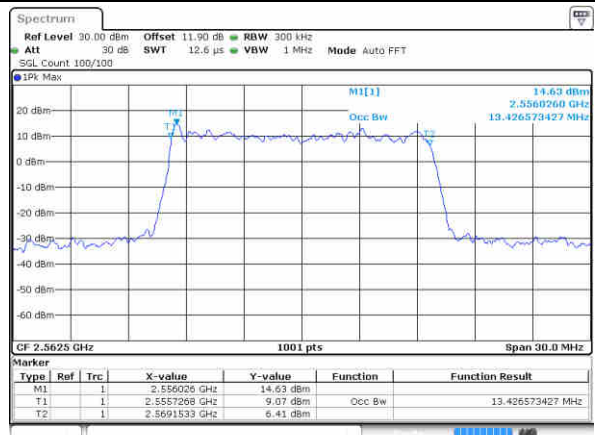
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



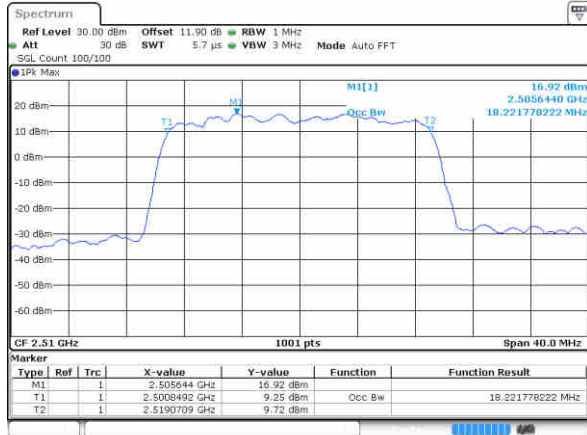
Highest Channel / 15MHz / 16QAM



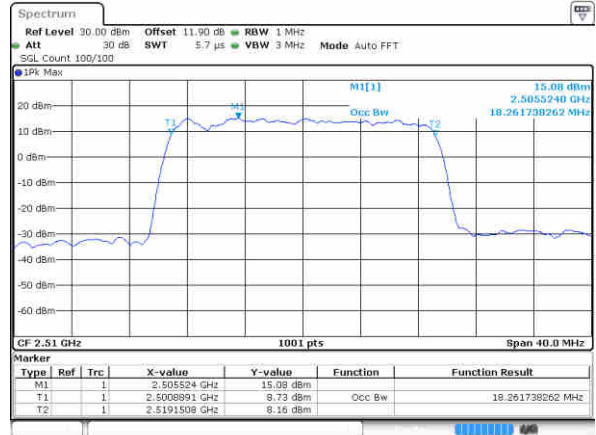


LTE Band 7

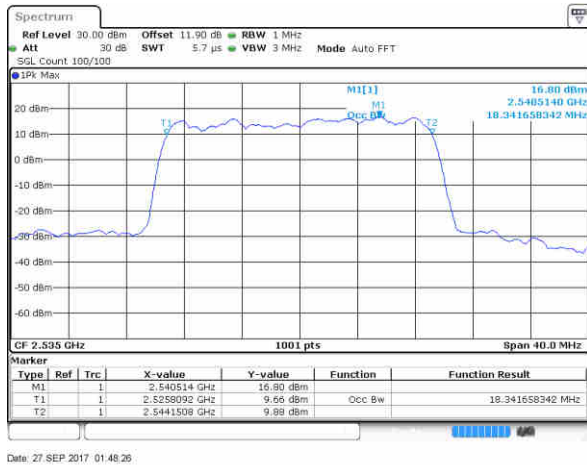
Lowest Channel / 20MHz / QPSK



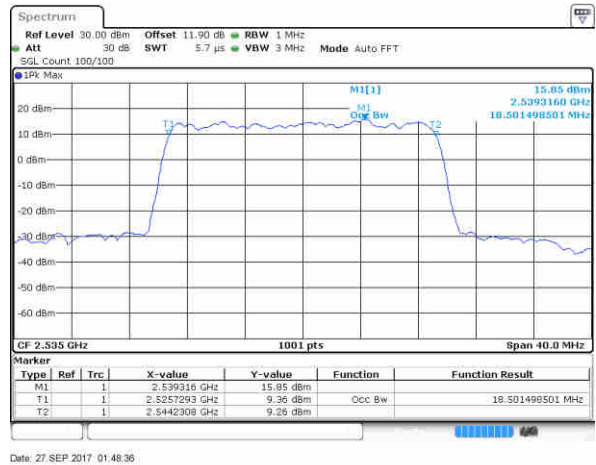
Lowest Channel / 20MHz / 16QAM



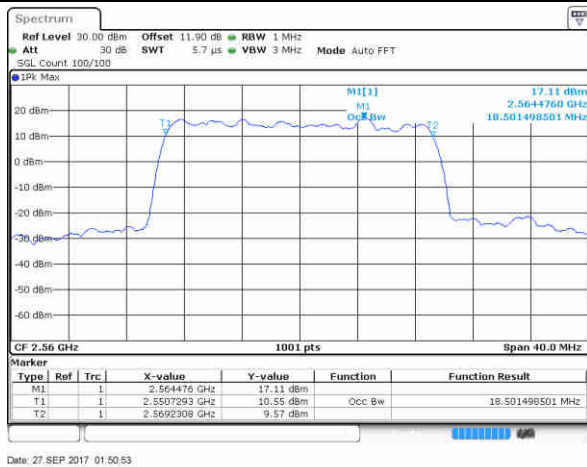
Middle Channel / 20MHz / QPSK



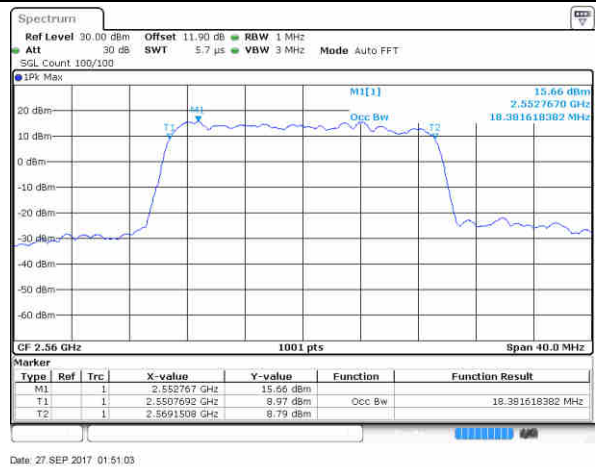
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



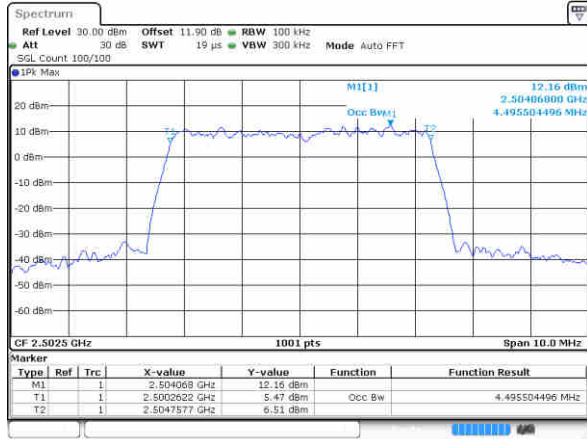
Highest Channel / 20MHz / 16QAM



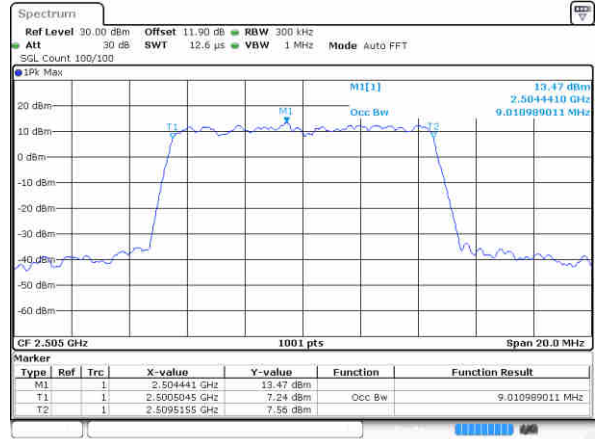


LTE Band 7

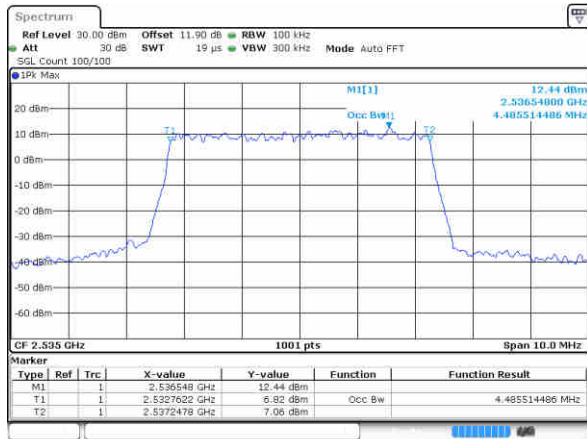
Lowest Channel / 5MHz / 64QAM



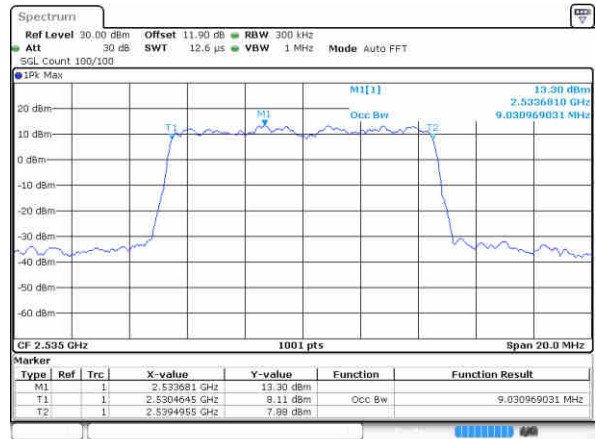
Lowest Channel / 10MHz / 64QAM



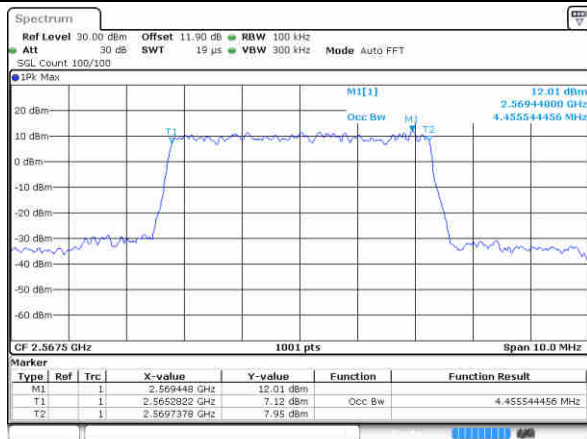
Middle Channel / 5MHz / 64QAM



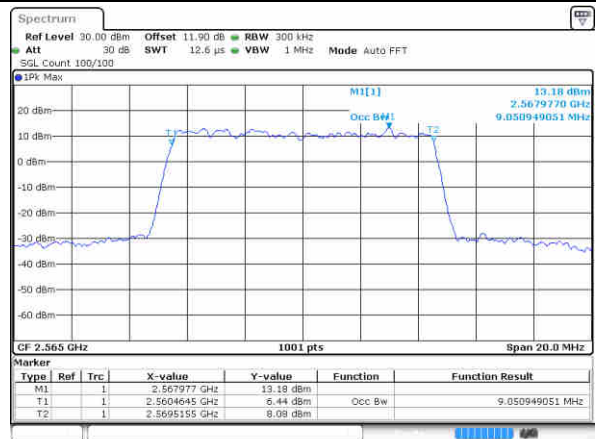
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



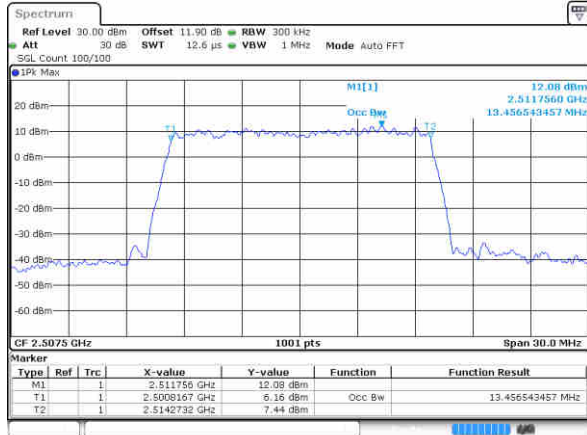
Highest Channel / 10MHz / 64QAM





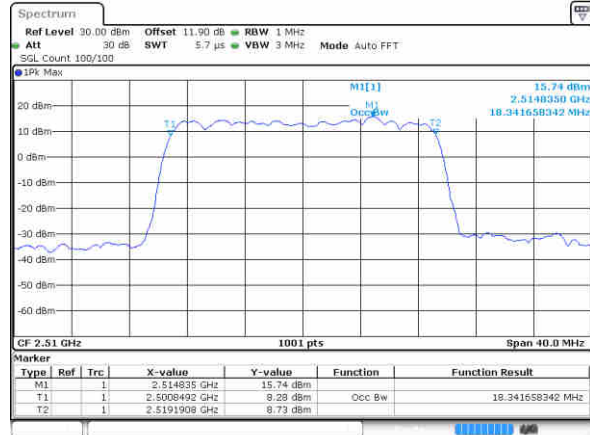
LTE Band 7

Lowest Channel / 15MHz / 64QAM



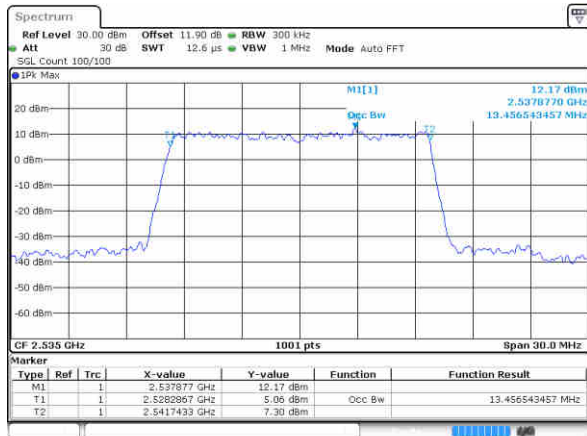
Date: 30 SEP 2017 15:17:48

Lowest Channel / 20MHz / 64QAM



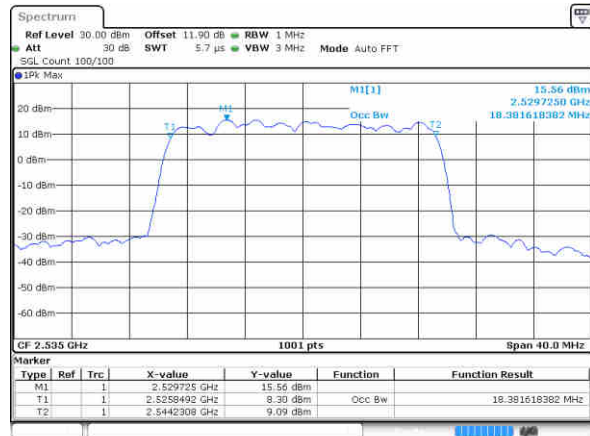
Date: 30 SEP 2017 15:26:05

Middle Channel / 15MHz / 64QAM



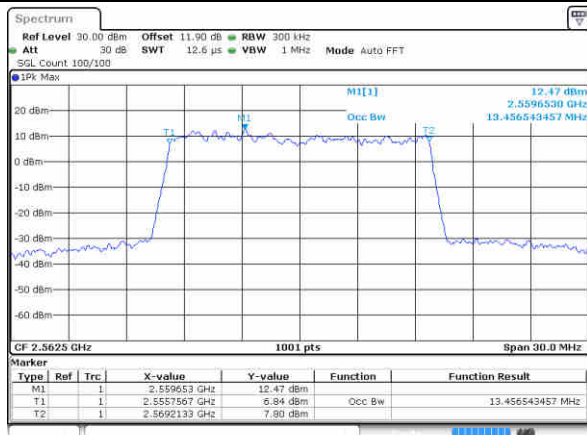
Date: 30 SEP 2017 15:21:20

Middle Channel / 20MHz / 64QAM



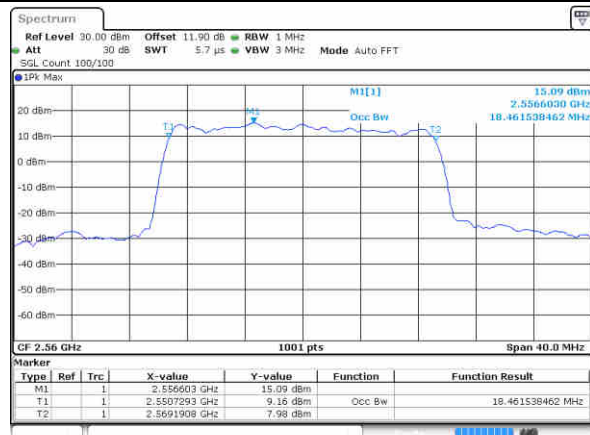
Date: 30 SEP 2017 15:29:37

Highest Channel / 15MHz / 64QAM



Date: 30 SEP 2017 15:22:33

Highest Channel / 20MHz / 64QAM



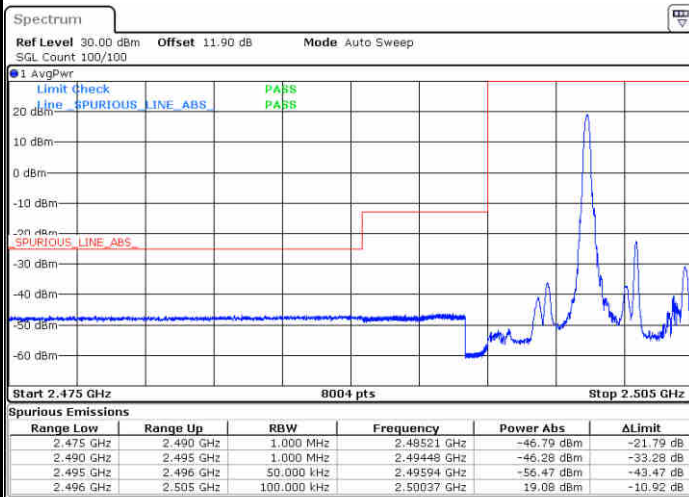
Date: 30 SEP 2017 15:30:50



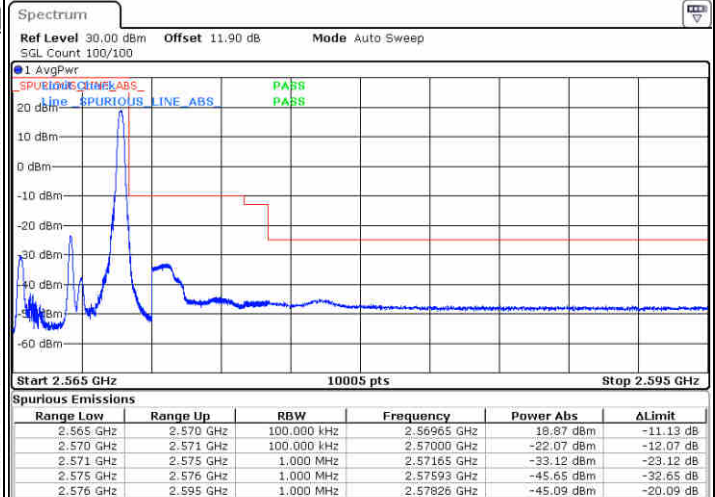
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

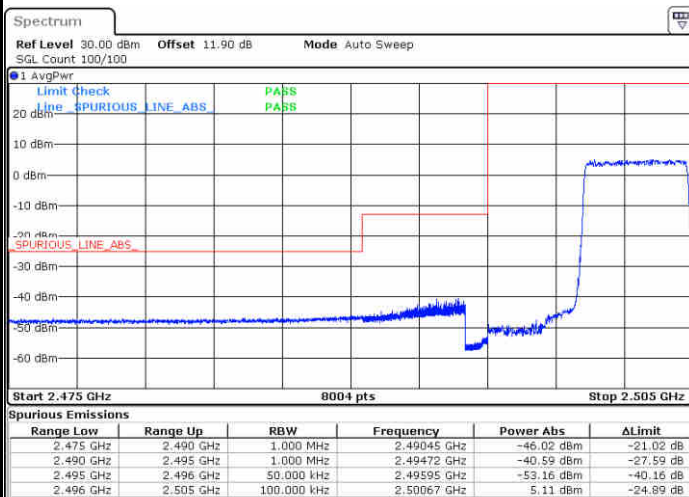
Lowest Band Edge / 1 RB



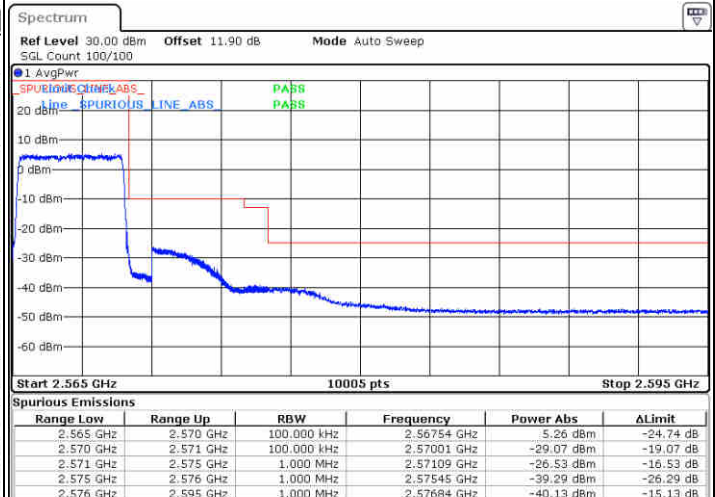
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



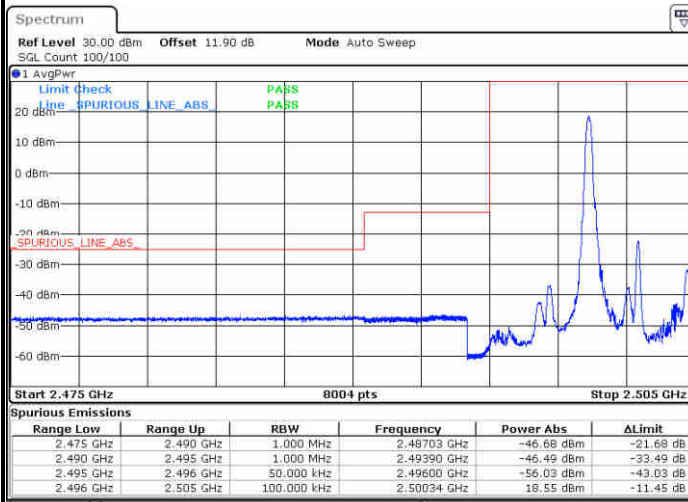
Highest Band Edge / Full RB



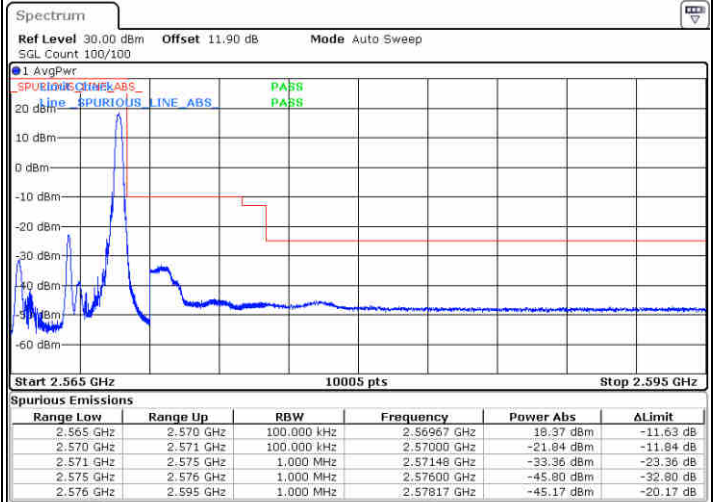


LTE Band 7 / 5MHz / 16QAM

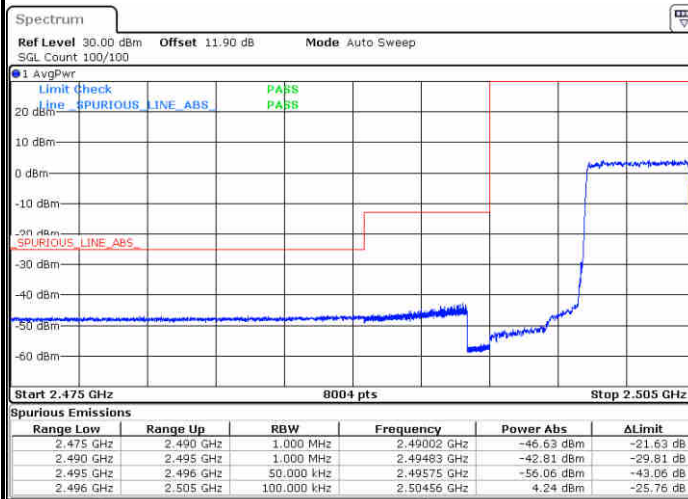
Lowest Band Edge / 1 RB



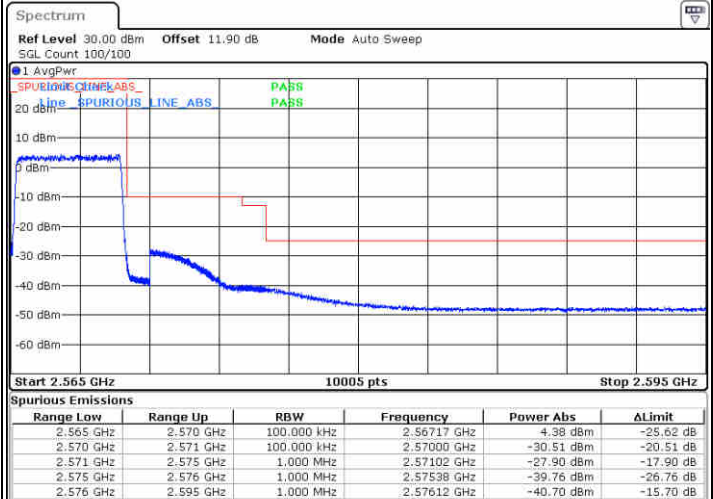
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



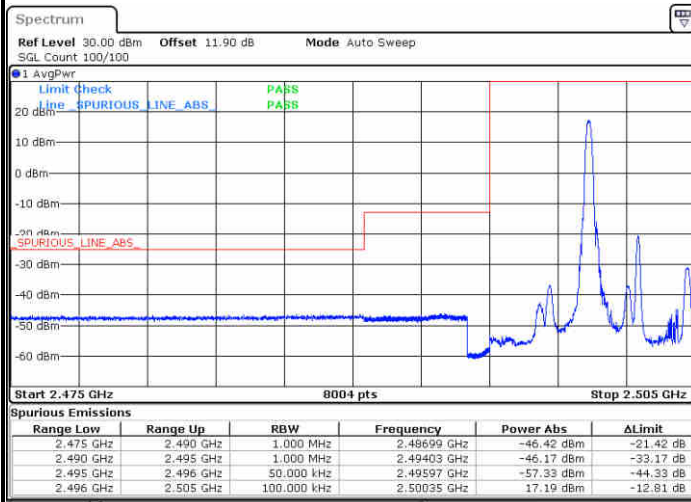
Highest Band Edge / Full RB



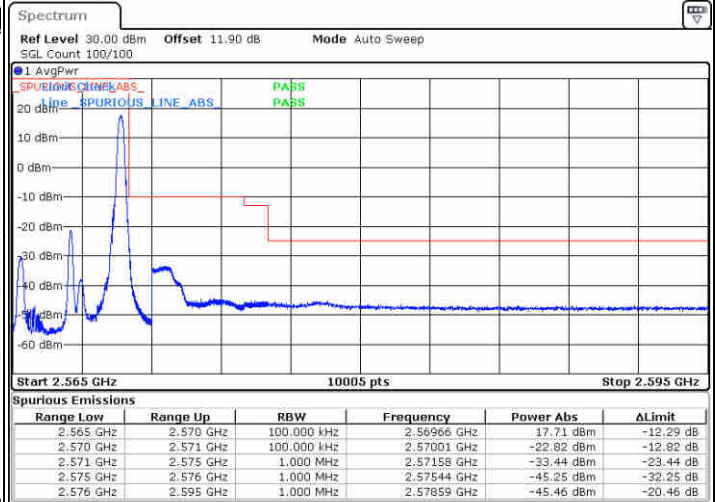


LTE Band 7 / 5MHz / 64QAM

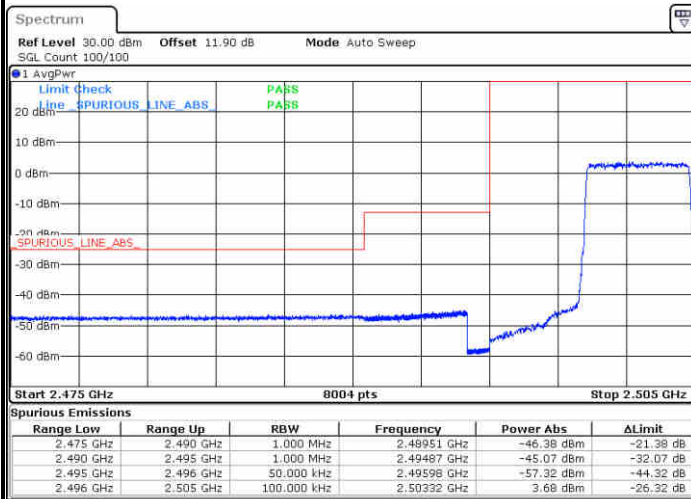
Lowest Band Edge / 1RB



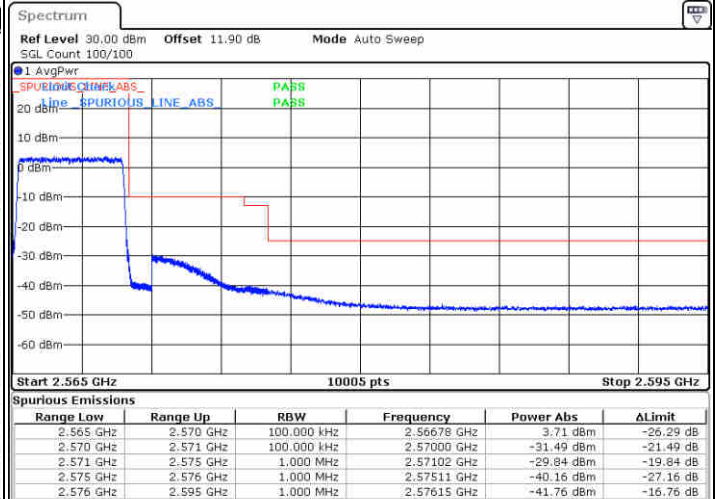
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



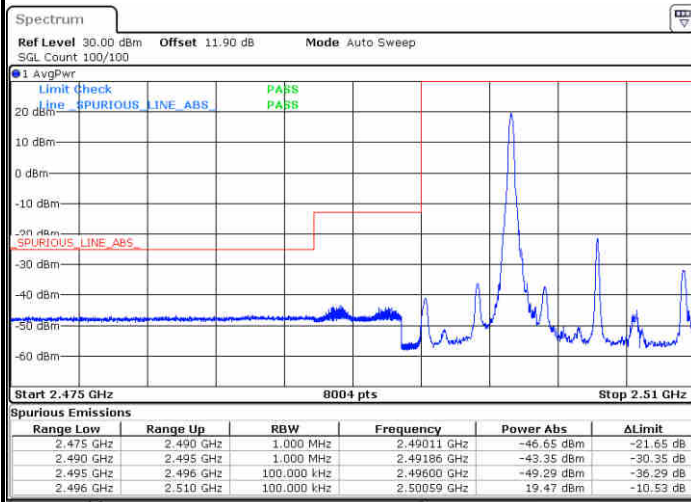
Highest Band Edge / Full RB



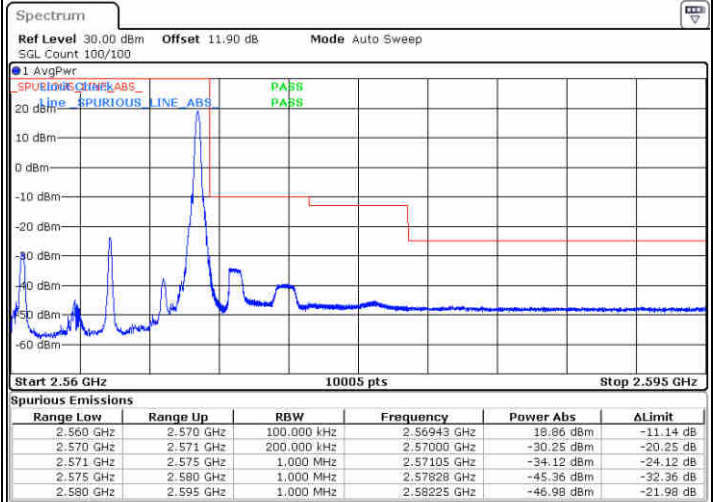


LTE Band 7 / 10MHz / QPSK

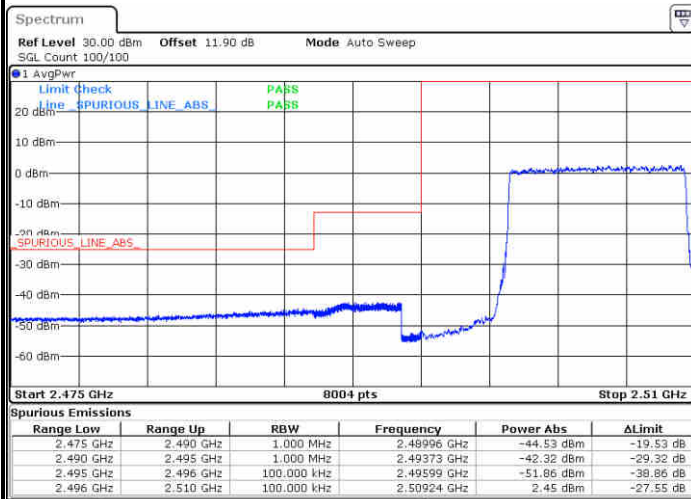
Lowest Band Edge / 1 RB



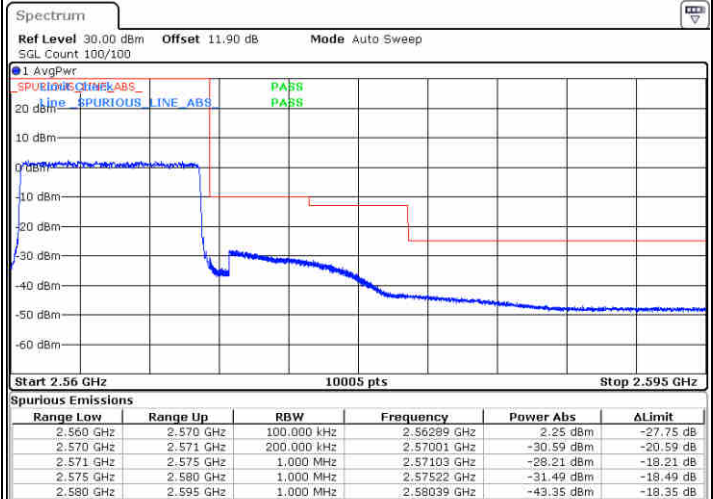
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



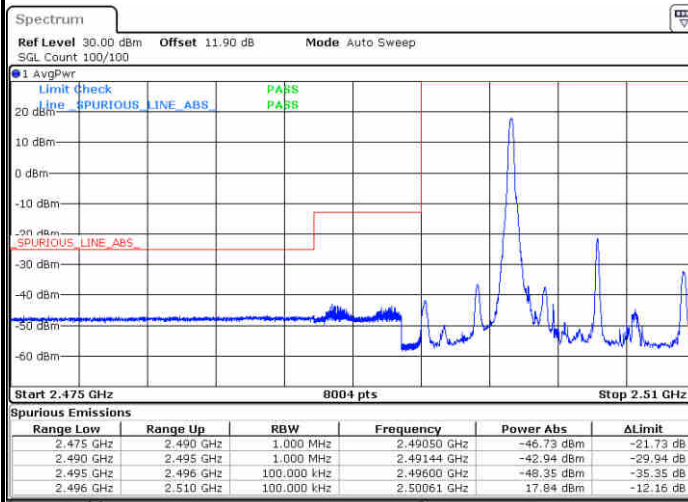
Highest Band Edge / Full RB



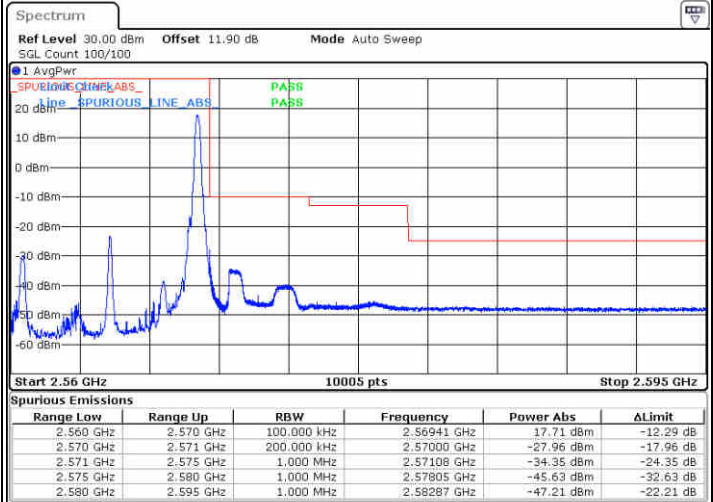


LTE Band 7 / 10MHz / 16QAM

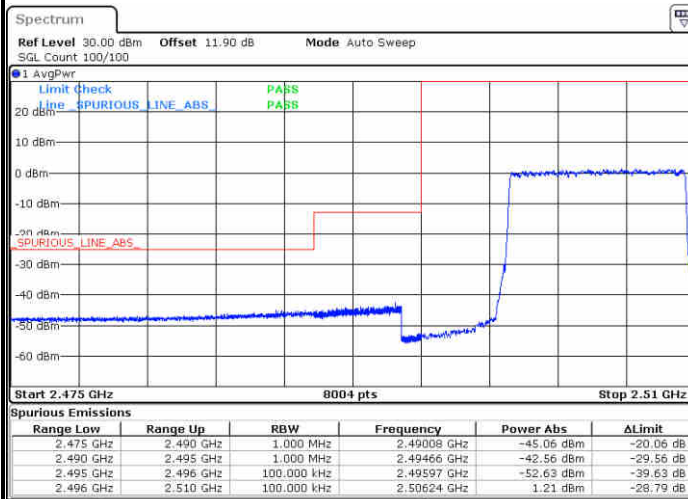
Lowest Band Edge / 1 RB



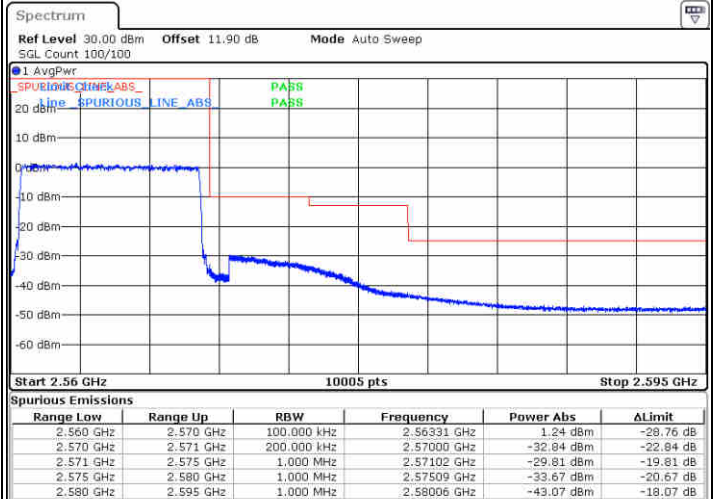
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



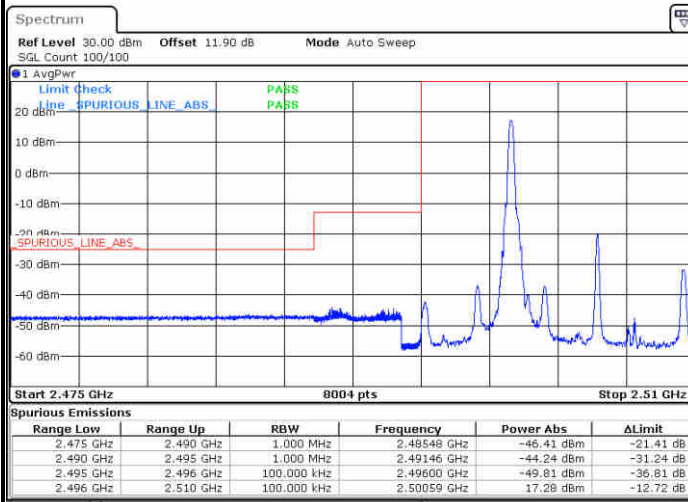
Highest Band Edge / Full RB



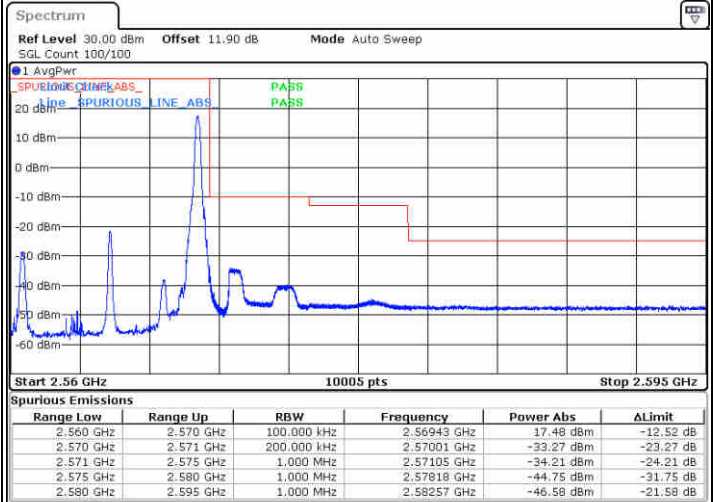


LTE Band 7 / 10MHz / 64QAM

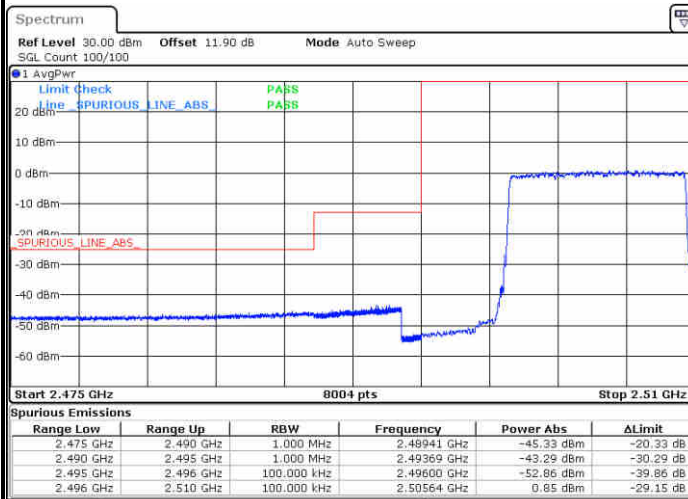
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

