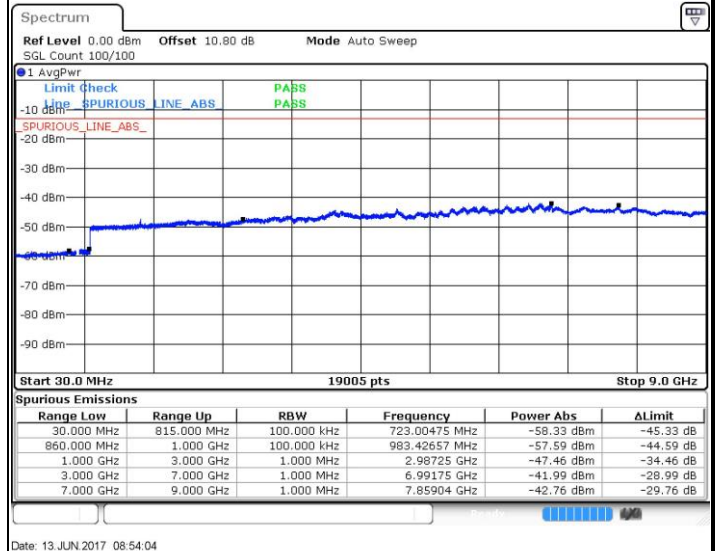


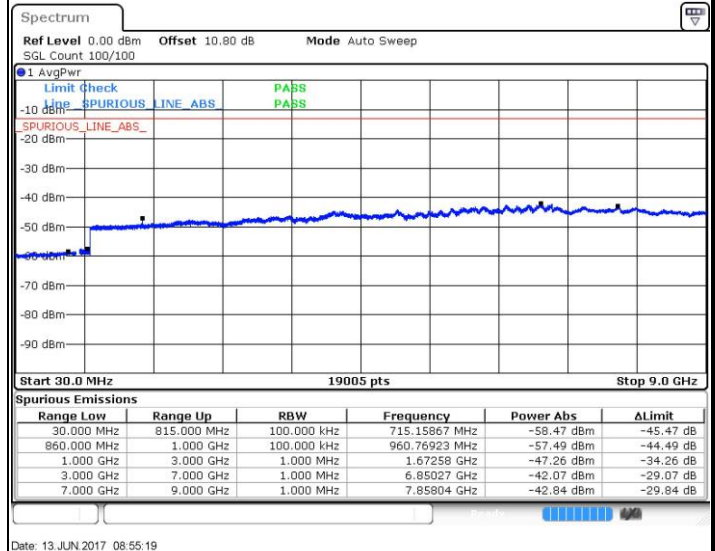


LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



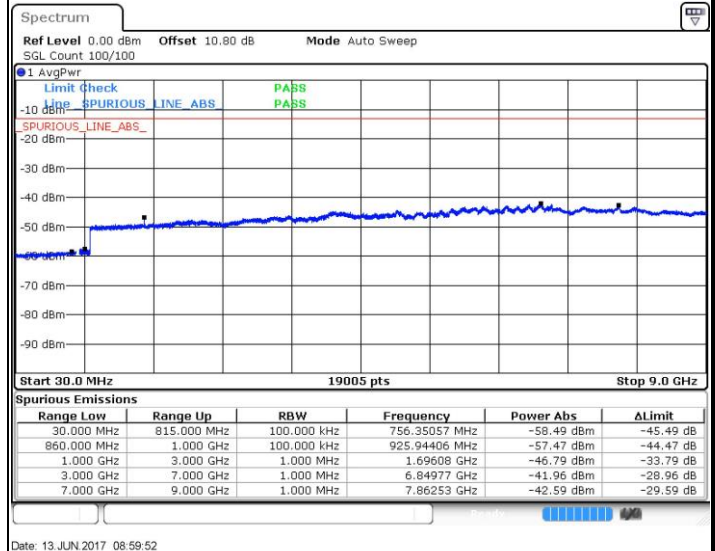
Middle Channel / 64QAM





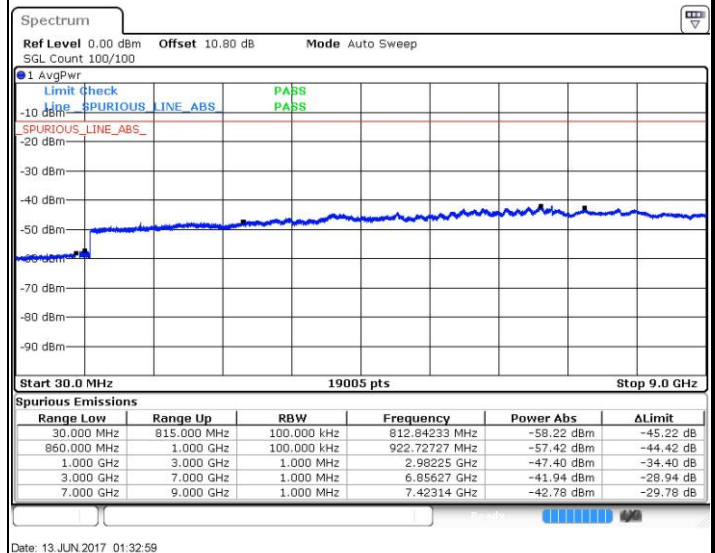
LTE Band 5 / 1.4MHz

Highest Channel / 64QAM



LTE Band 5 / 3MHz

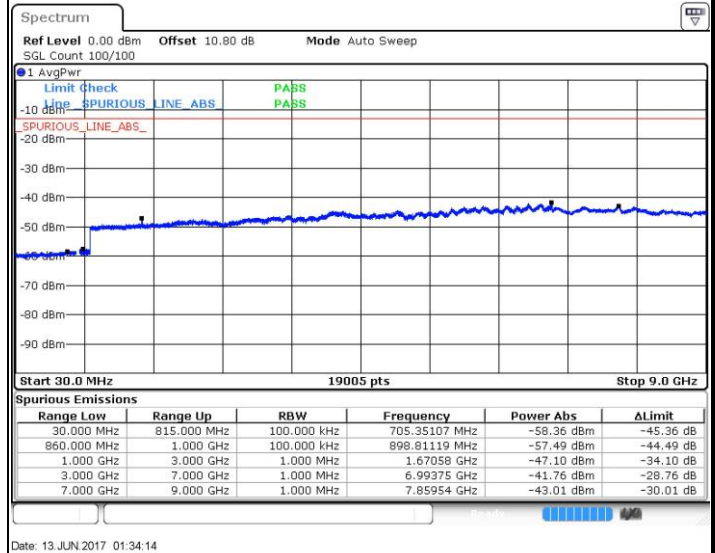
Lowest Channel / 64QAM



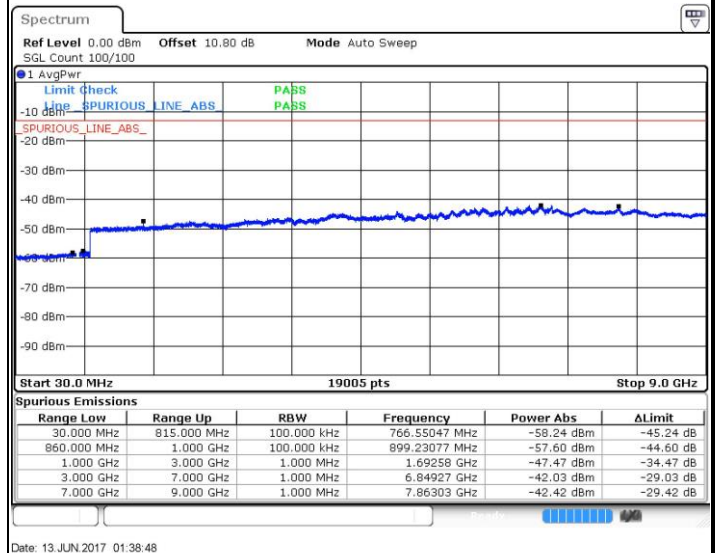


LTE Band 5 / 3MHz

Middle Channel / 64QAM



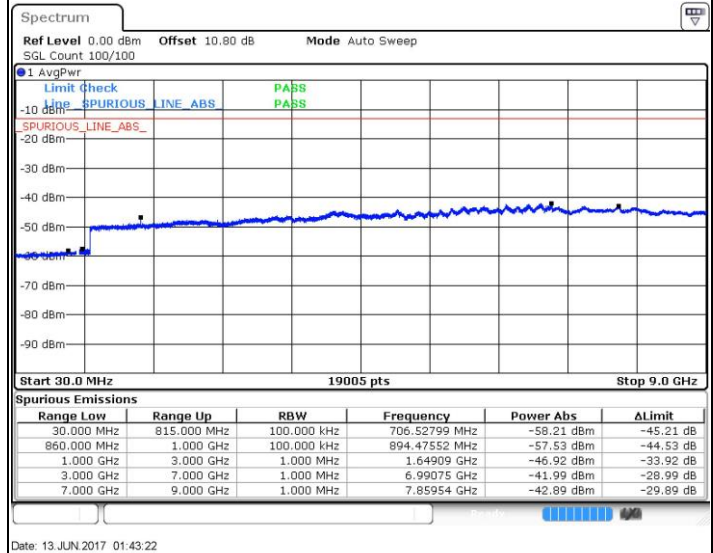
Highest Channel / 64QAM



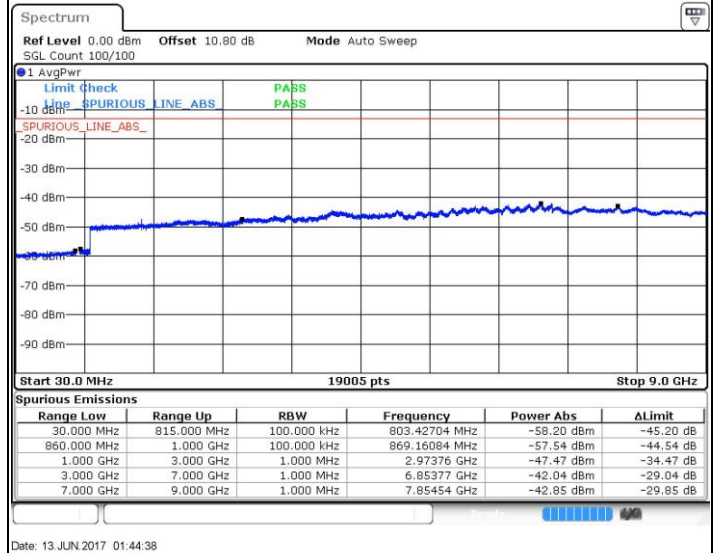


LTE Band 5 / 5MHz

Lowest Channel / 64QAM



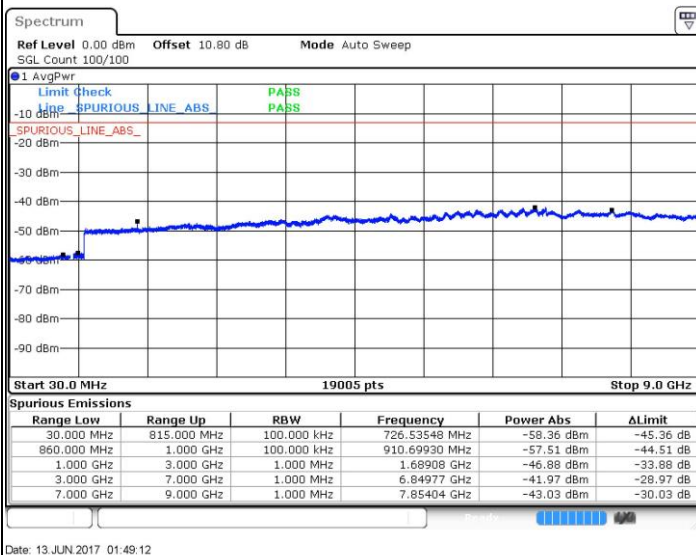
Middle Channel / 64QAM





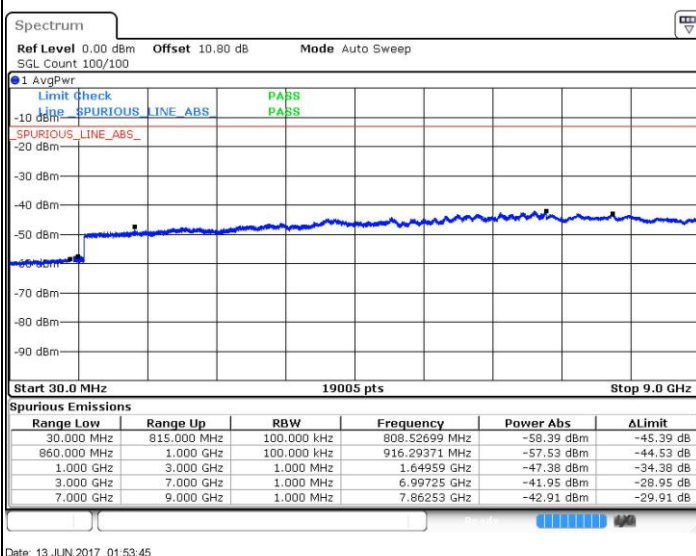
LTE Band 5 / 5MHz

Highest Channel / 64QAM



LTE Band 5 / 10MHz

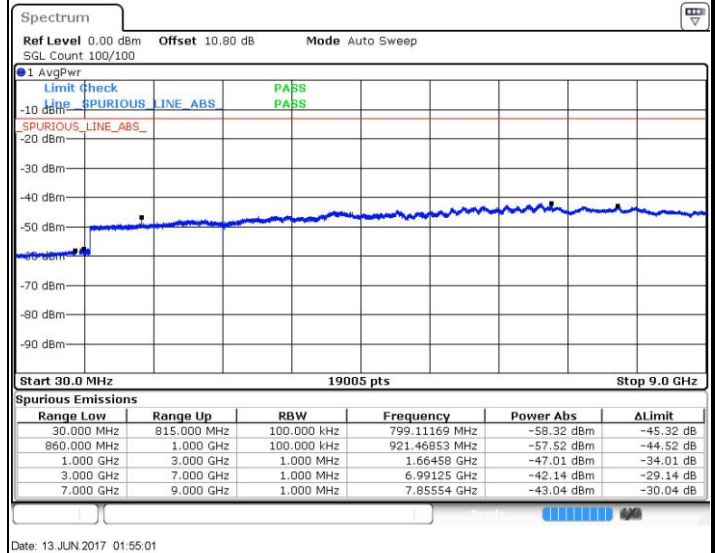
Lowest Channel / 64QAM



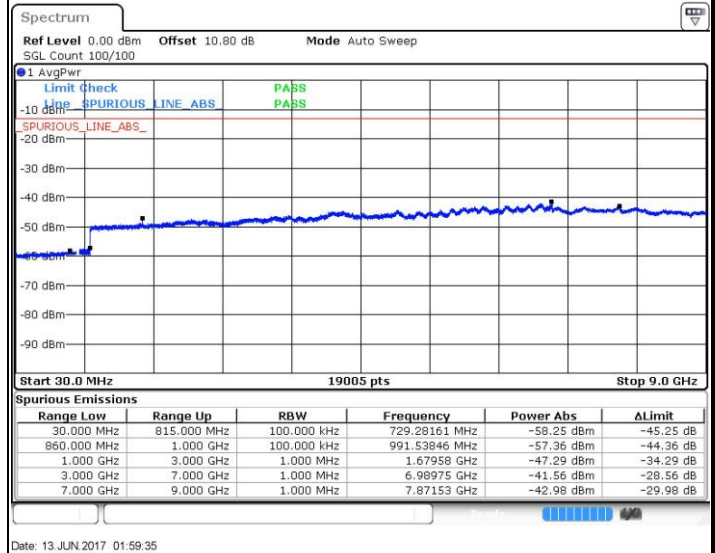


LTE Band 5 / 10MHz

Middle Channel / 64QAM



Highest Channel / 64QAM



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	0.0019	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0036	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0031	
20	Maximum Voltage	0.0047	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0044	

Note:

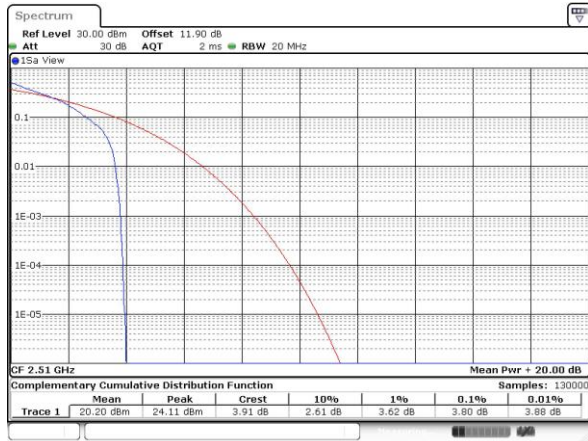
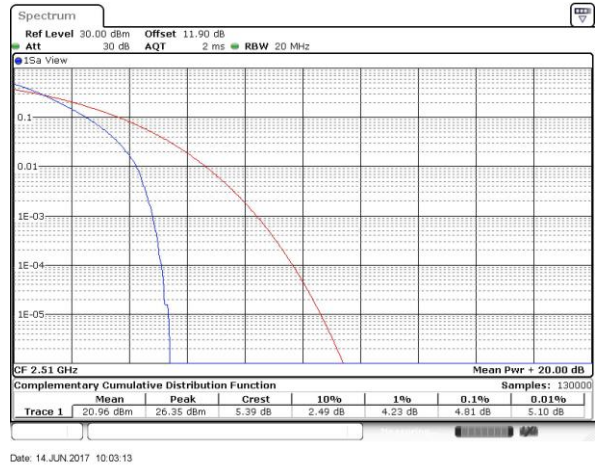
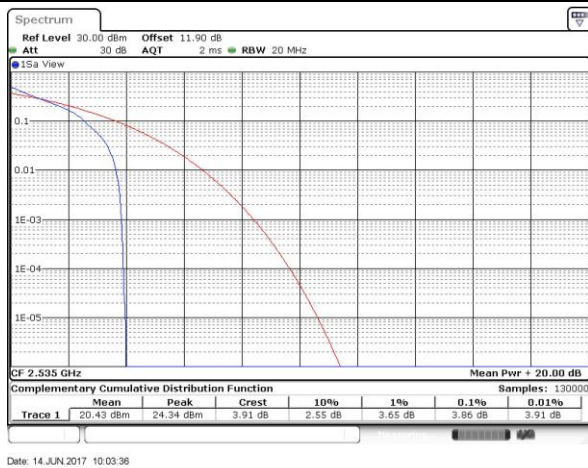
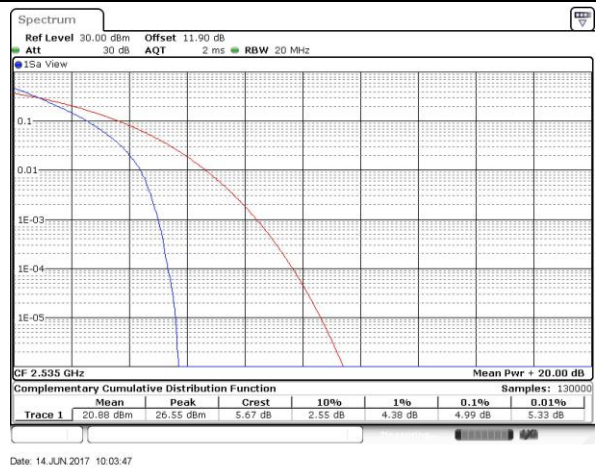
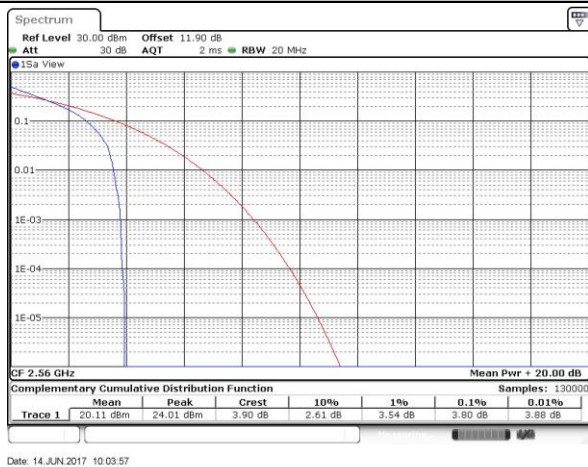
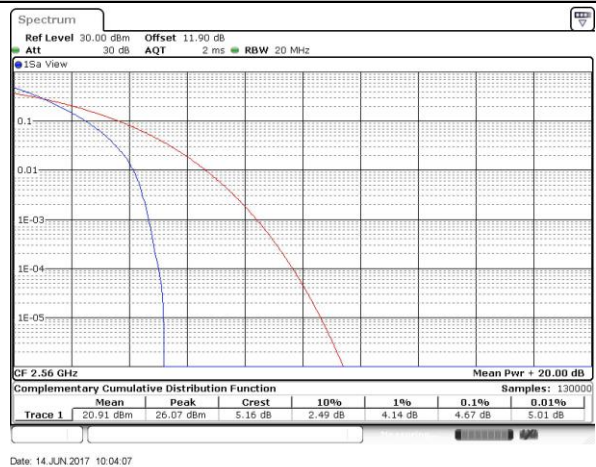
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

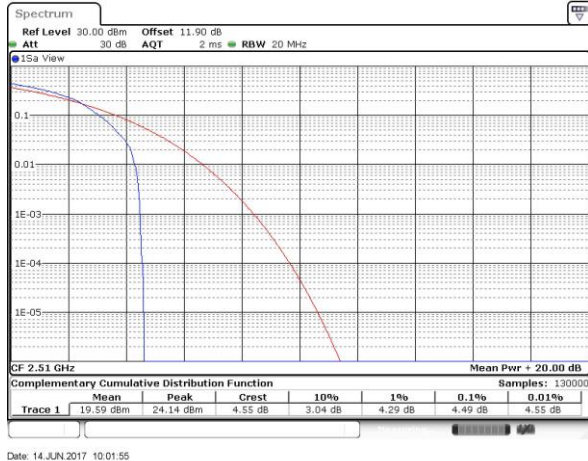
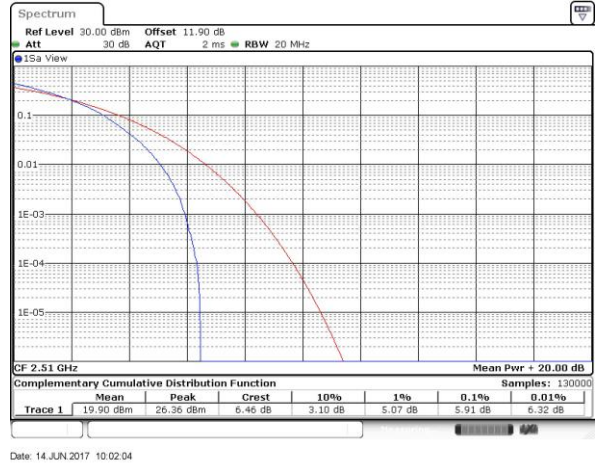
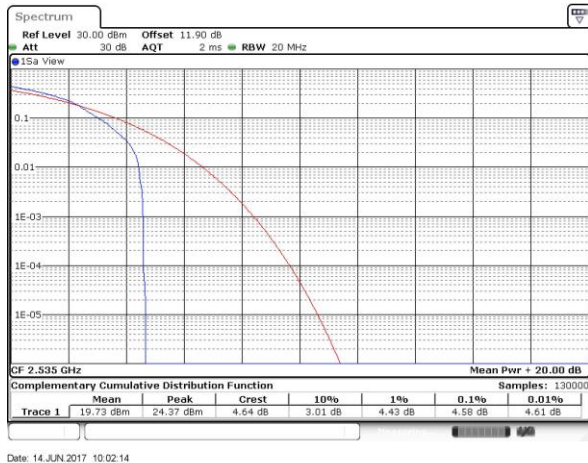
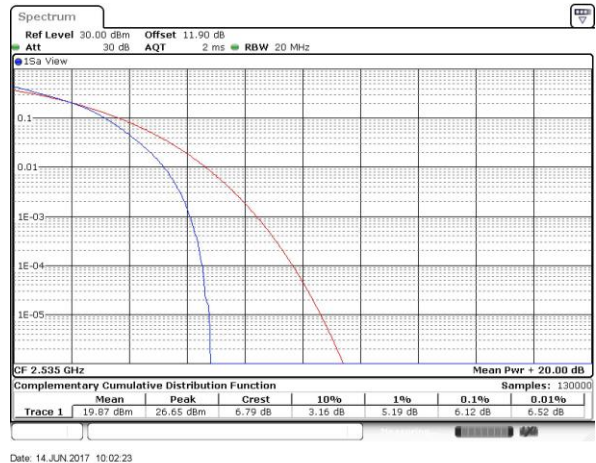
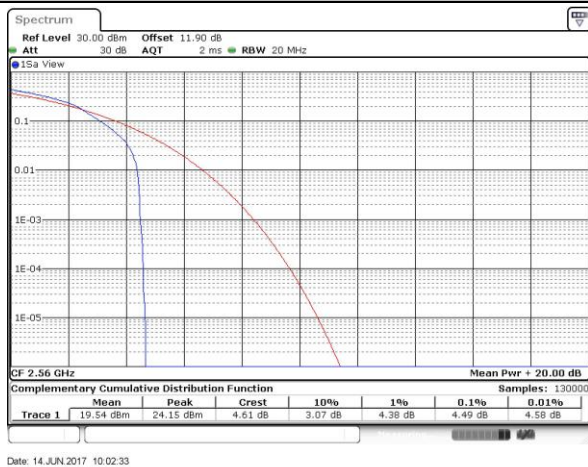
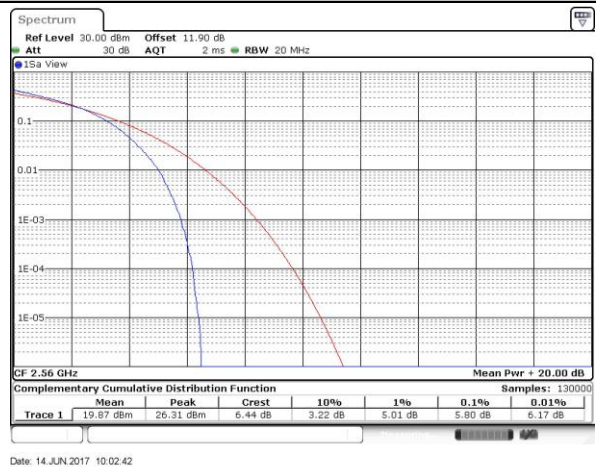


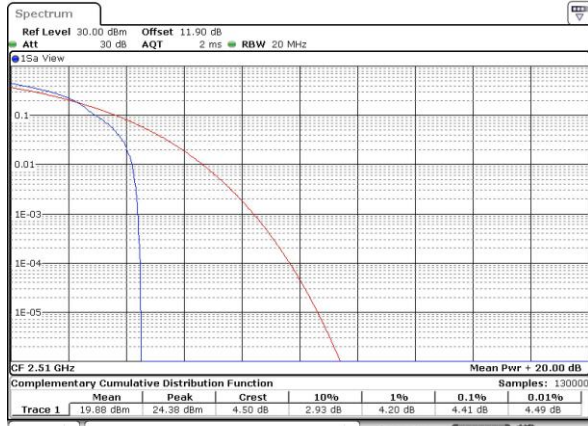
LTE Band 7

Peak-to-Average Ratio

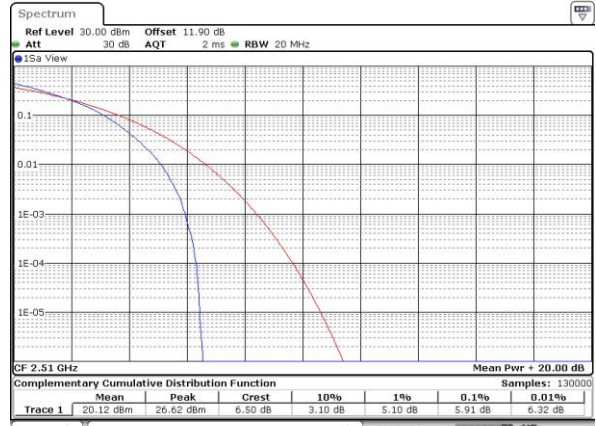
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.8	4.81	4.49	5.91	PASS
Middle CH	3.86	4.99	4.58	6.12	
Highest CH	3.8	4.67	4.49	5.8	
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	4.41	5.91	PASS
Middle CH	-	-	4.96	6.03	
Highest CH	-	-	4.64	5.83	

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


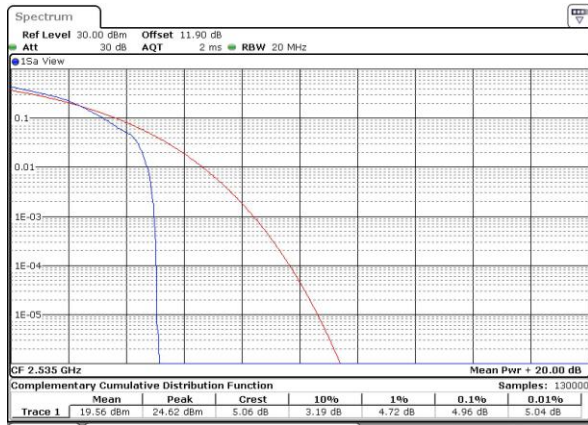
LTE Band 7 / 20MHz / 16QAM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


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


Date: 15 JUN 2017 16:02:49

Lowest Channel / Full RB


Date: 15 JUN 2017 16:02:59

Middle Channel / 1RB


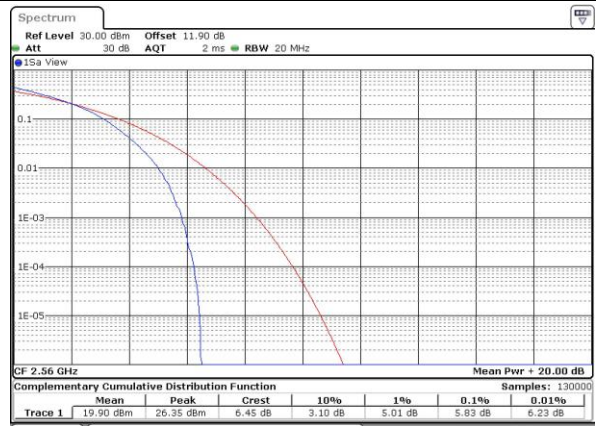
Date: 15 JUN 2017 16:03:09

Middle Channel / Full RB


Date: 15 JUN 2017 16:03:19

Highest Channel / 1RB


Date: 15 JUN 2017 16:03:28

Highest Channel / Full RB


Date: 15 JUN 2017 16:03:37

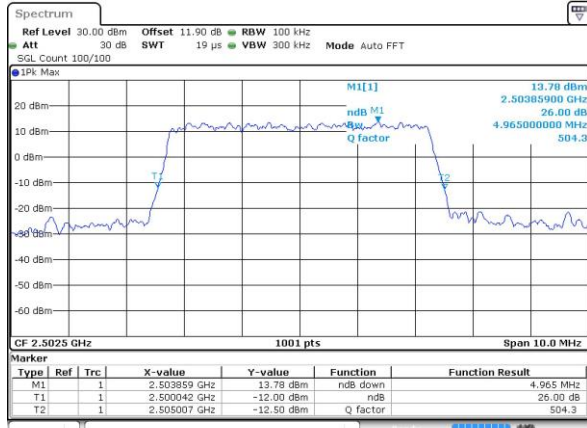
**26dB Bandwidth**

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	-	-	-	-	4.965	4.875	9.87	9.77	14.595	14.416	20.26	20.18
Middle CH	-	-	-	-	4.925	4.945	9.75	9.87	14.266	14.595	20.26	20.22
Highest CH	-	-	-	-	4.845	4.855	9.75	9.83	14.386	14.655	20.22	20.14
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM
Lowest CH	-	-	-	-	-	4.875	-	9.81	-	14.386	-	20.14
Middle CH	-	-	-	-	-	4.945	-	9.65	-	14.176	-	20.14
Highest CH	-	-	-	-	-	4.795	-	9.83	-	14.476	-	20.14



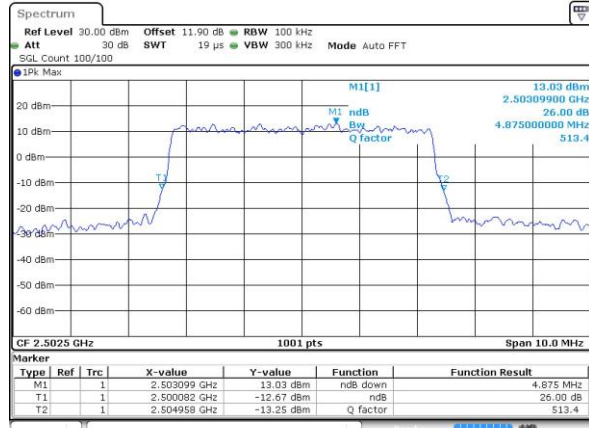
LTE Band 7

Lowest Channel / 5MHz / QPSK



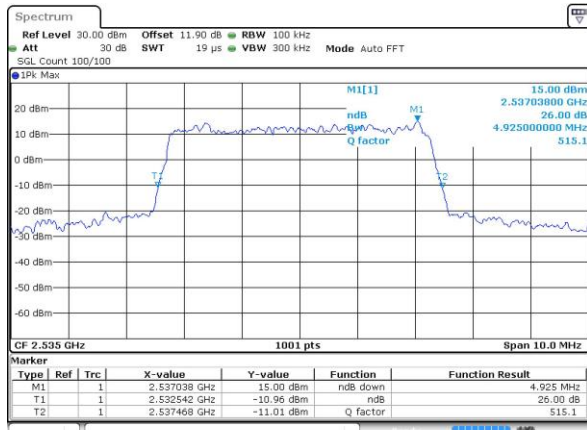
Date: 14 JUN 2017 08:54:46

Lowest Channel / 5MHz / 16QAM



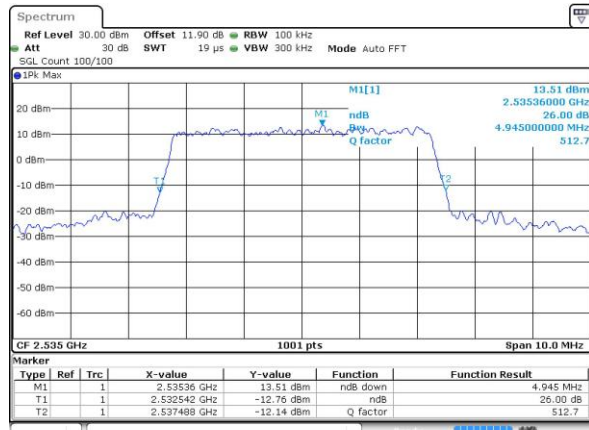
Date: 14 JUN 2017 08:54:57

Middle Channel / 5MHz / QPSK



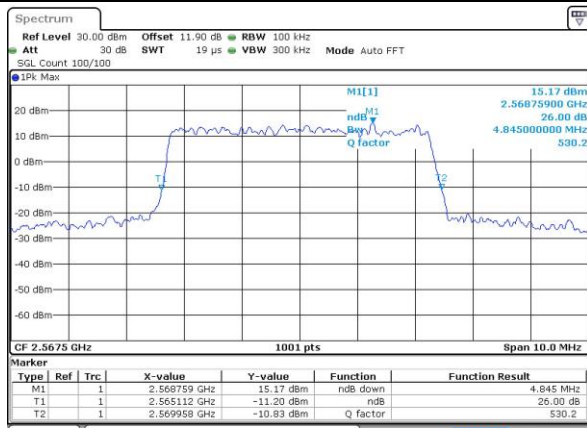
Date: 14 JUN 2017 09:01:55

Middle Channel / 5MHz / 16QAM



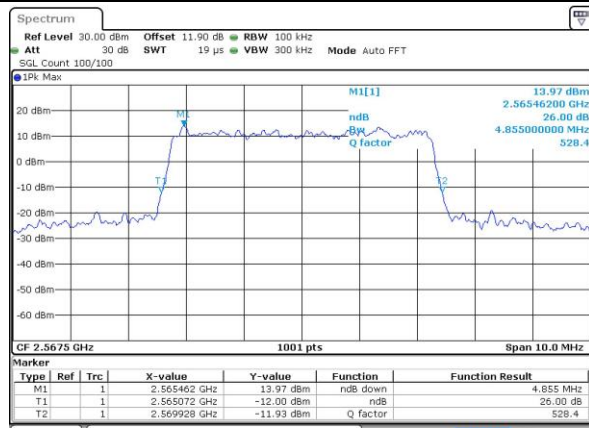
Date: 14 JUN 2017 09:02:05

Highest Channel / 5MHz / QPSK



Date: 14 JUN 2017 09:04:24

Highest Channel / 5MHz / 16QAM

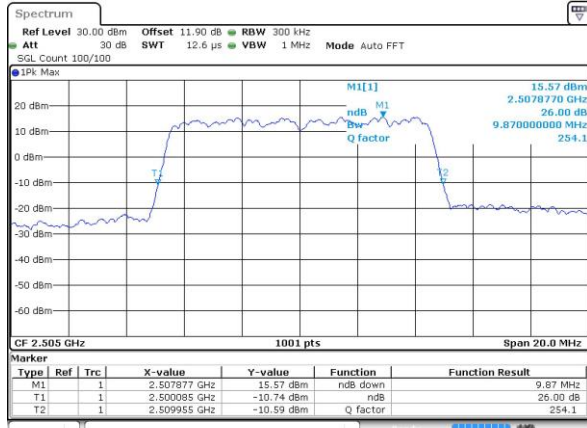


Date: 14 JUN 2017 09:04:34



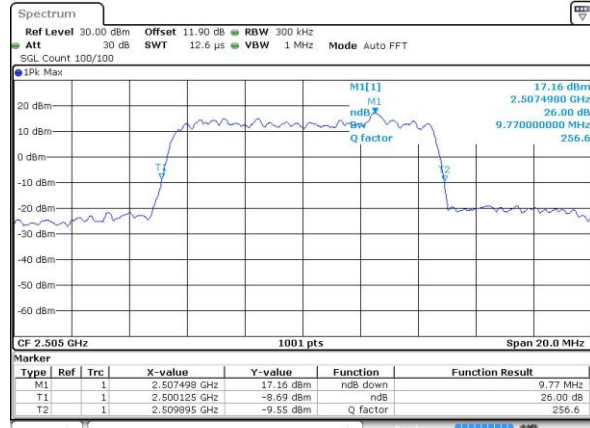
LTE Band 7

Lowest Channel / 10MHz / QPSK



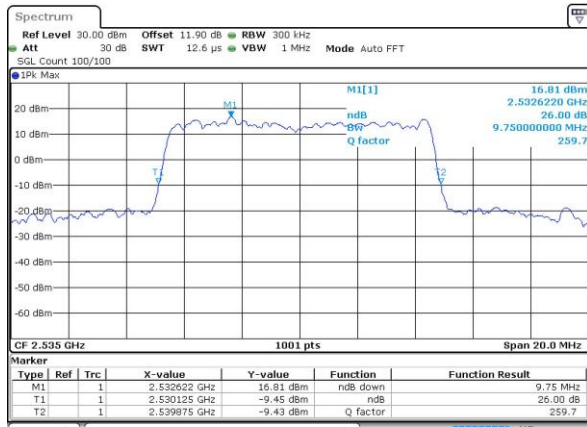
Date: 14 JUN 2017 09:11:31

Lowest Channel / 10MHz / 16QAM



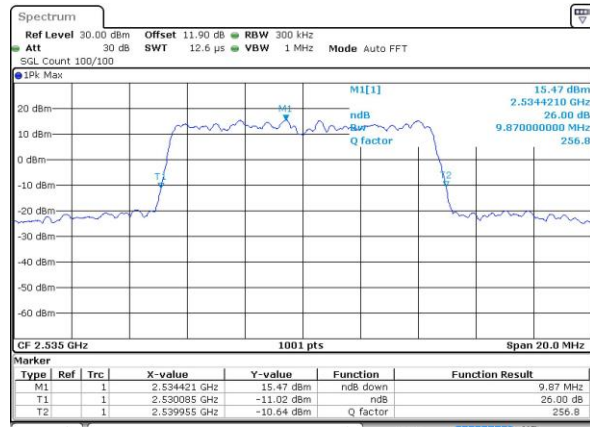
Date: 14 JUN 2017 09:11:42

Middle Channel / 10MHz / QPSK



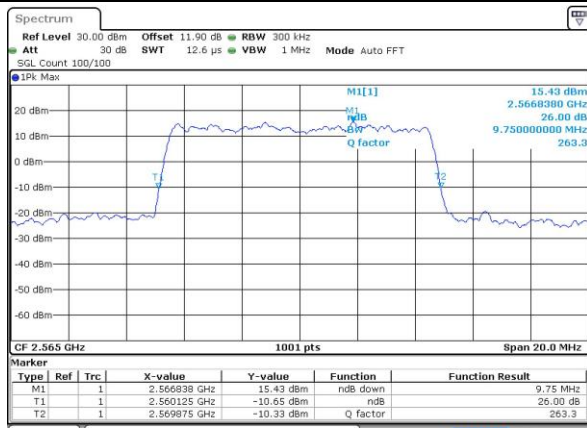
Date: 14 JUN 2017 09:18:39

Middle Channel / 10MHz / 16QAM



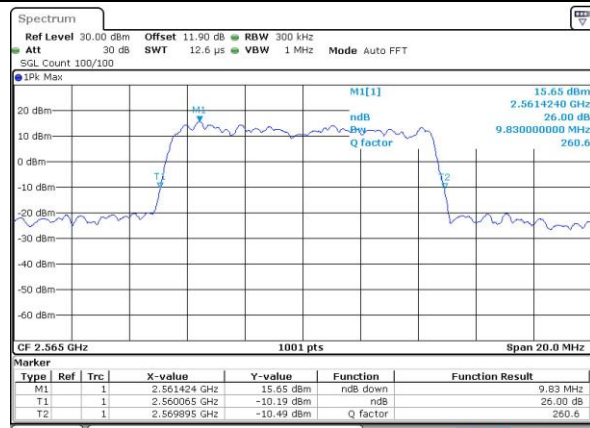
Date: 14 JUN 2017 09:18:50

Highest Channel / 10MHz / QPSK



Date: 14 JUN 2017 09:21:08

Highest Channel / 10MHz / 16QAM

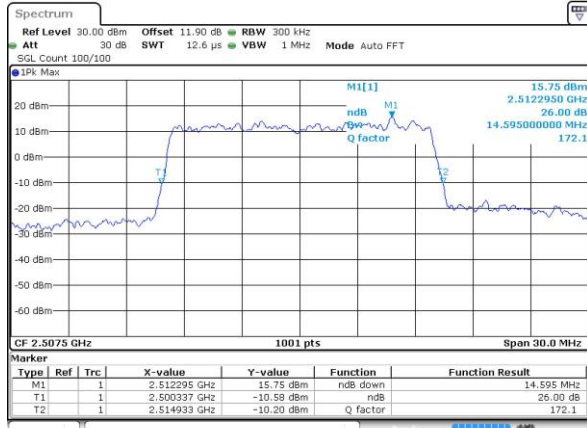


Date: 14 JUN 2017 09:21:19



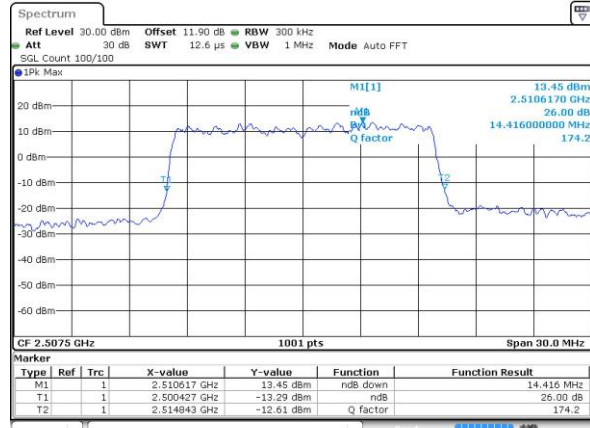
LTE Band 7

Lowest Channel / 15MHz / QPSK



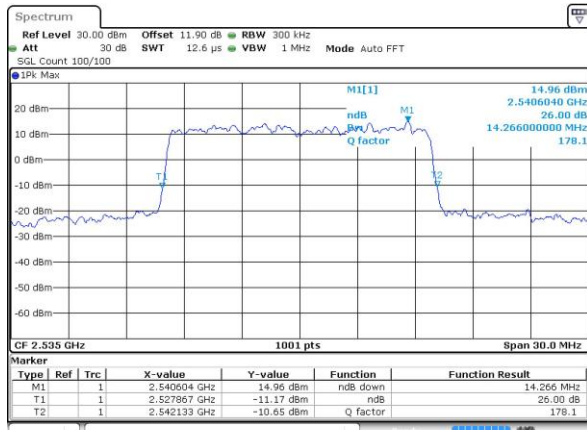
Date: 14 JUN 2017 09:28:16

Lowest Channel / 15MHz / 16QAM



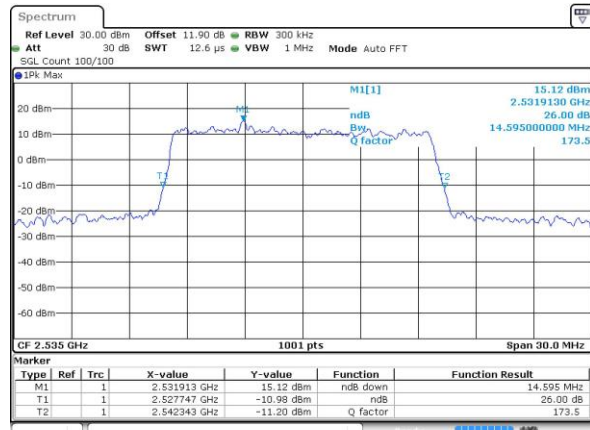
Date: 14 JUN 2017 09:28:27

Middle Channel / 15MHz / QPSK



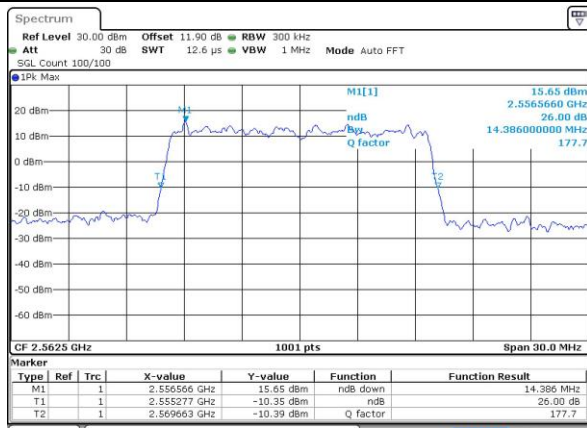
Date: 14 JUN 2017 09:35:24

Middle Channel / 15MHz / 16QAM



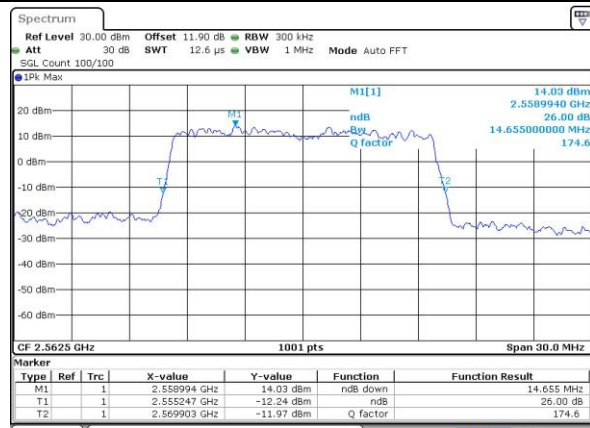
Date: 14 JUN 2017 09:35:35

Highest Channel / 15MHz / QPSK



Date: 14 JUN 2017 09:37:54

Highest Channel / 15MHz / 16QAM

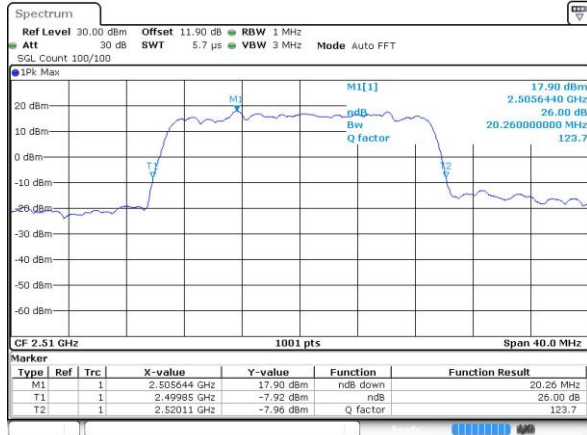


Date: 14 JUN 2017 09:38:04

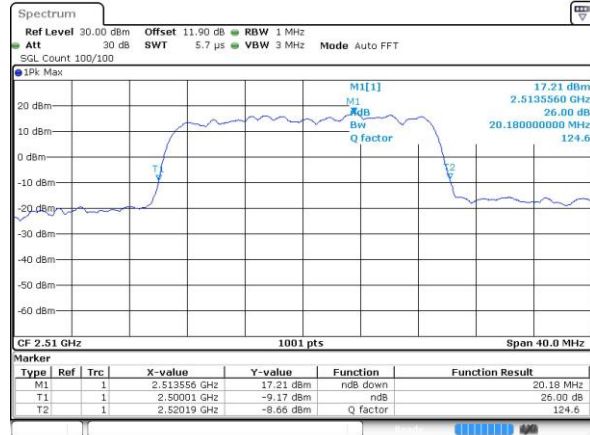


LTE Band 7

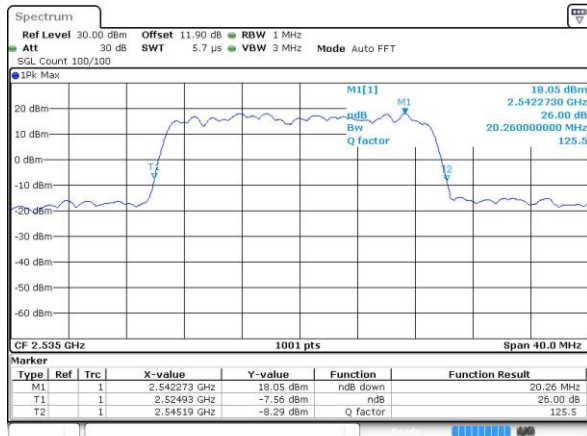
Lowest Channel / 20MHz / QPSK



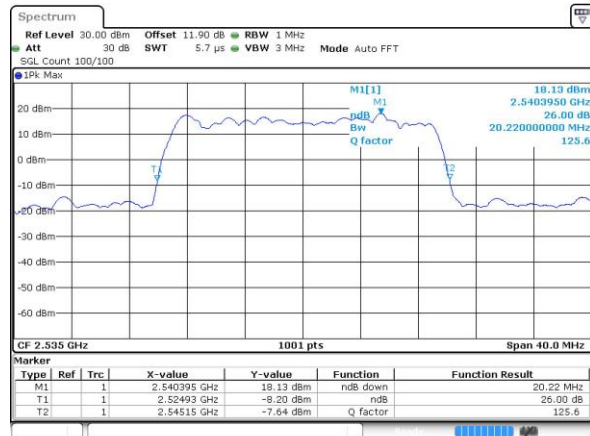
Lowest Channel / 20MHz / 16QAM



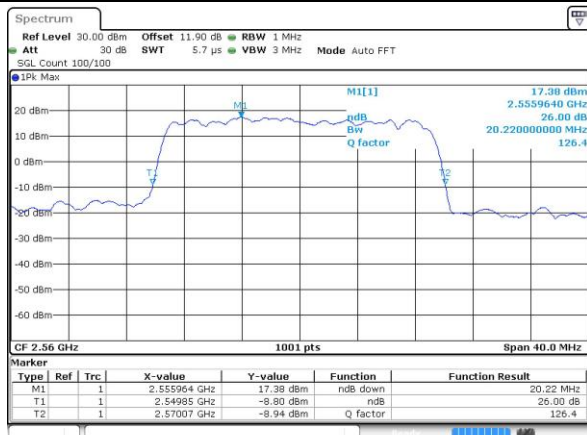
Middle Channel / 20MHz / QPSK



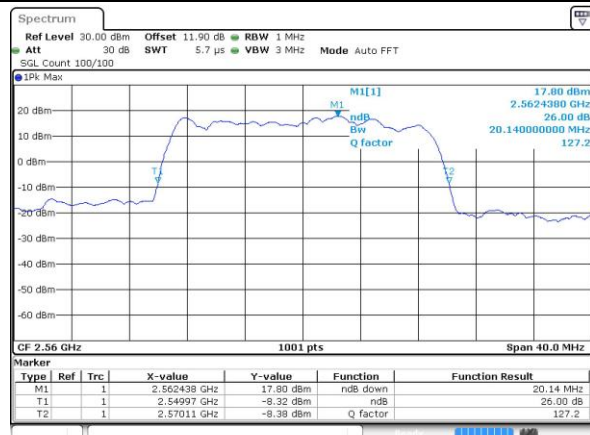
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



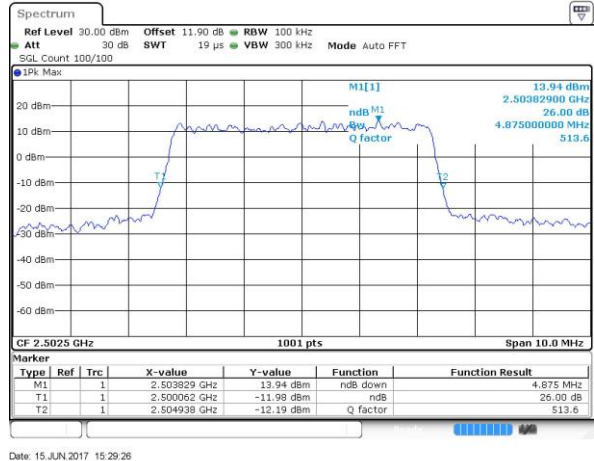
Highest Channel / 20MHz / 16QAM



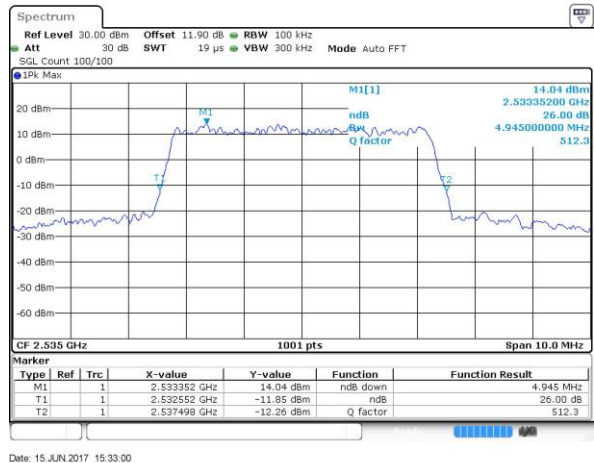


LTE Band 7

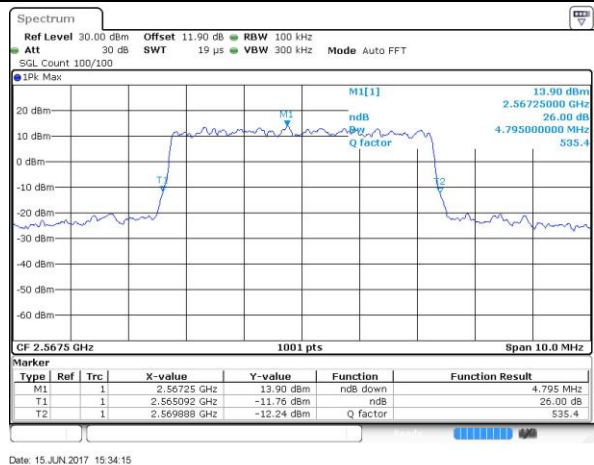
Lowest Channel / 5MHz / 64QAM



Middle Channel / 5MHz / 64QAM



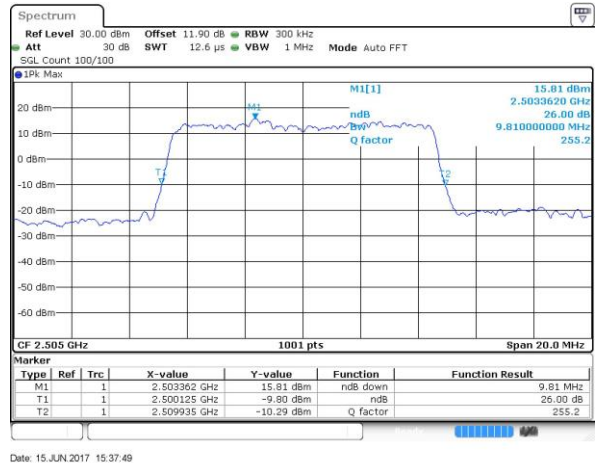
Highest Channel / 5MHz / 64QAM



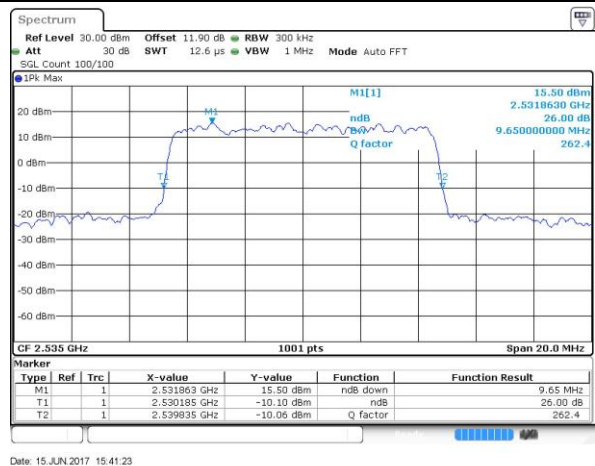


LTE Band 7

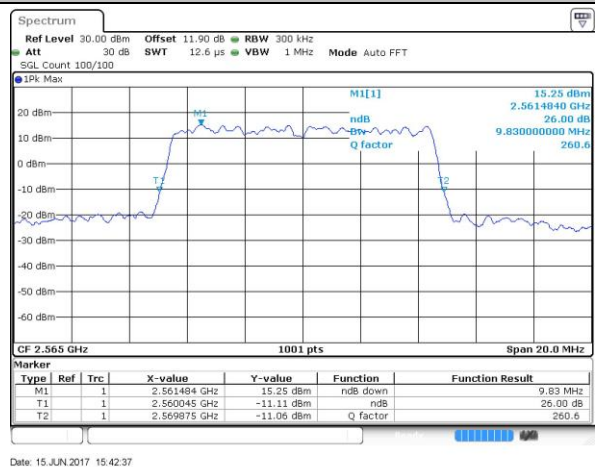
Lowest Channel / 10MHz / 64QAM



Middle Channel / 10MHz / 64QAM



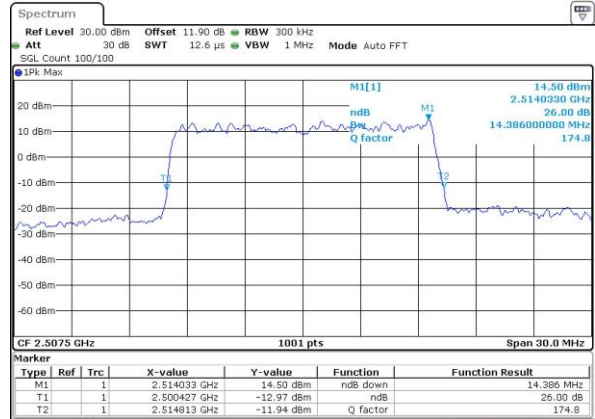
Highest Channel / 10MHz / 64QAM





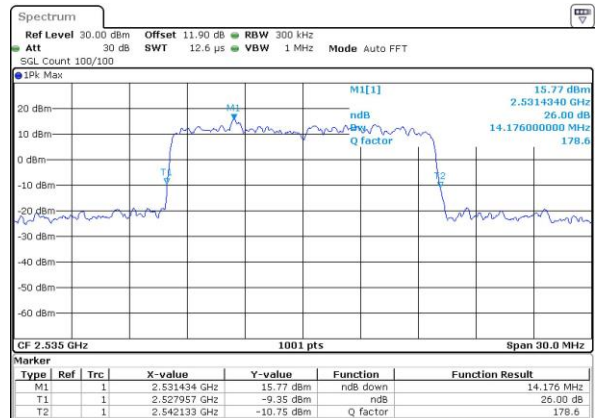
LTE Band 7

Lowest Channel / 15MHz / 64QAM



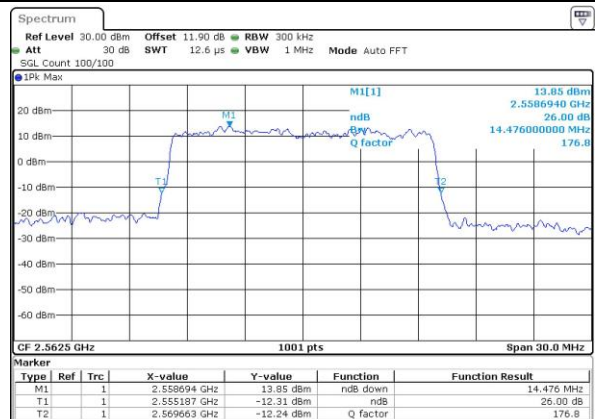
Date: 15 JUN 2017 15:46:12

Middle Channel / 15MHz / 64QAM



Date: 15 JUN 2017 15:49:47

Highest Channel / 15MHz / 64QAM

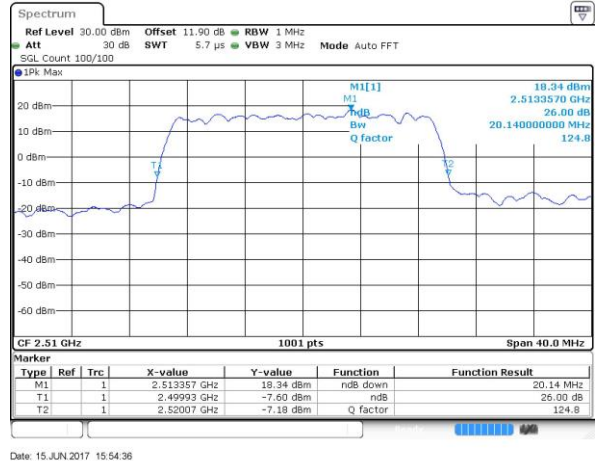


Date: 15 JUN 2017 15:51:01

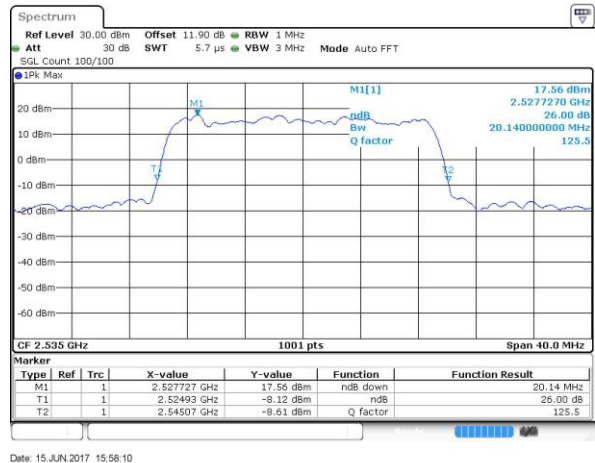


LTE Band 7

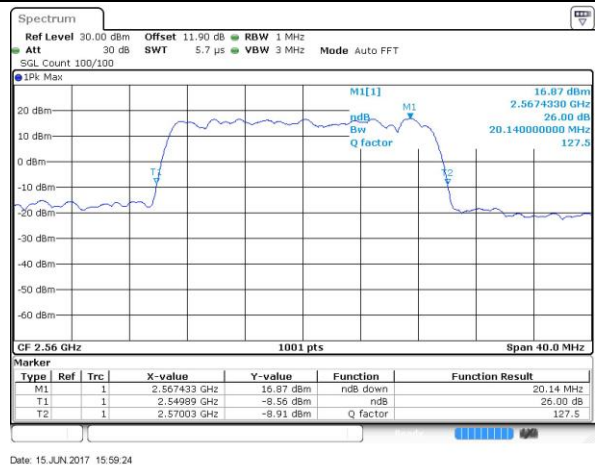
Lowest Channel / 20MHz / 64QAM



Middle Channel / 20MHz / 64QAM



Highest Channel / 20MHz / 64QAM



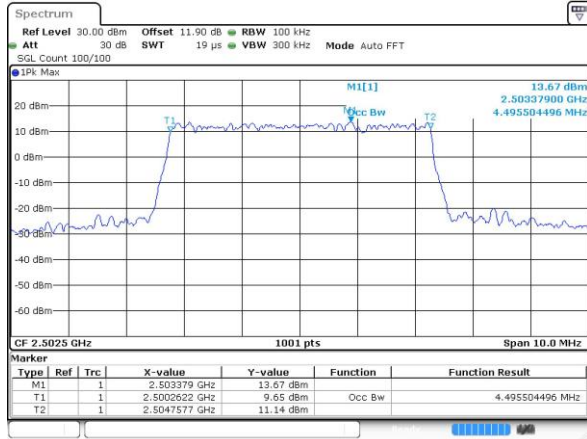
**Occupied Bandwidth**

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	-	-	-	-	4.5	4.52	9.07	8.99	13.4	13.43	18.26	18.46
Middle CH	-	-	-	-	4.5	4.5	9.03	9.01	13.43	13.52	18.42	18.5
Highest CH	-	-	-	-	4.49	4.48	9.03	9.01	13.52	13.43	18.38	18.3
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM	QPSK	64QAM
Lowest CH	-	-	-	-	-	4.51	-	9.01	-	13.4	-	18.38
Middle CH	-	-	-	-	-	4.49	-	9.03	-	13.49	-	18.42
Highest CH	-	-	-	-	-	4.47	-	8.99	-	13.43	-	18.42

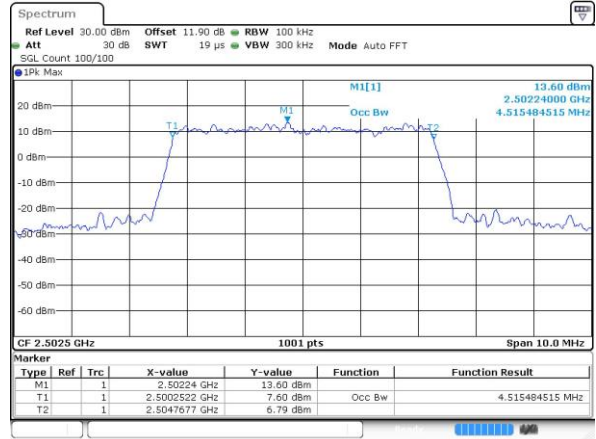


LTE Band 7

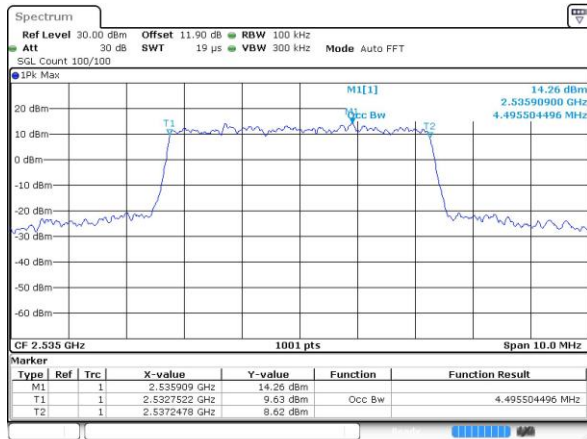
Lowest Channel / 5MHz / QPSK



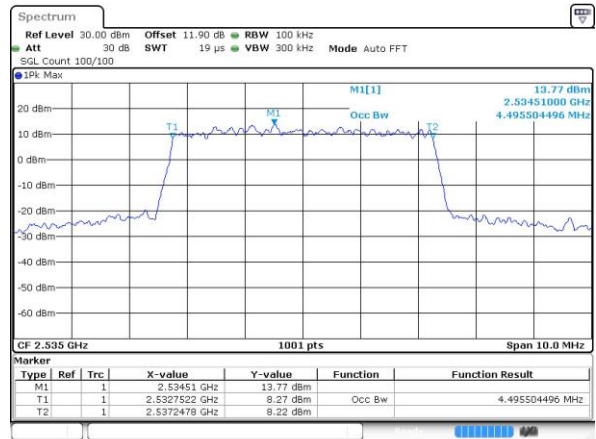
Lowest Channel / 5MHz / 16QAM



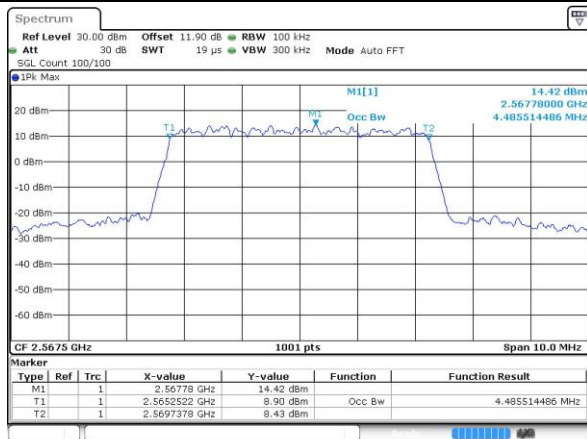
Middle Channel / 5MHz / QPSK



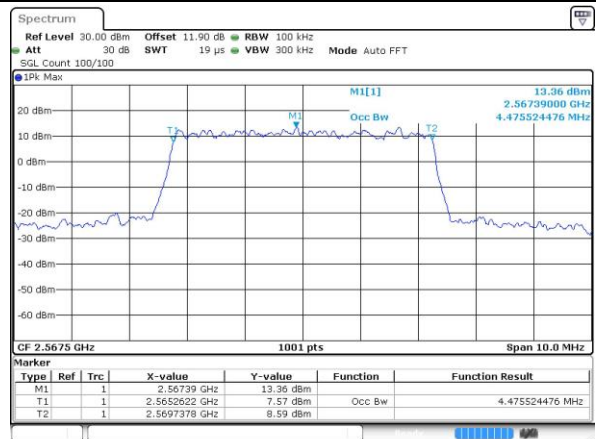
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



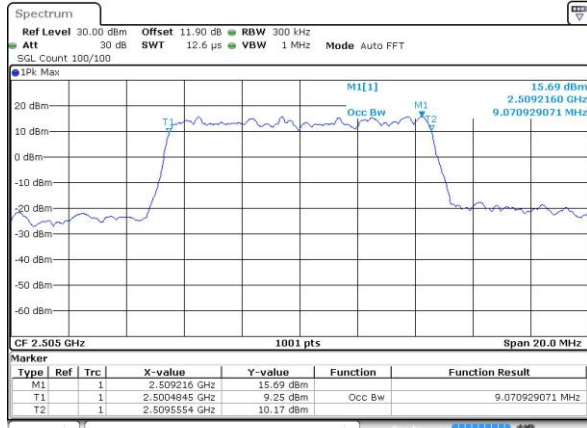
Highest Channel / 5MHz / 16QAM





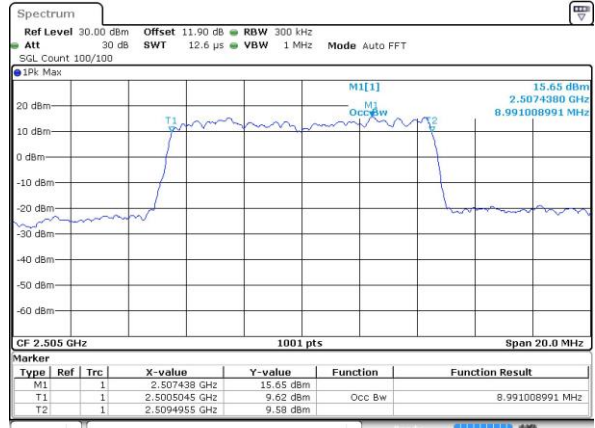
LTE Band 7

Lowest Channel / 10MHz / QPSK



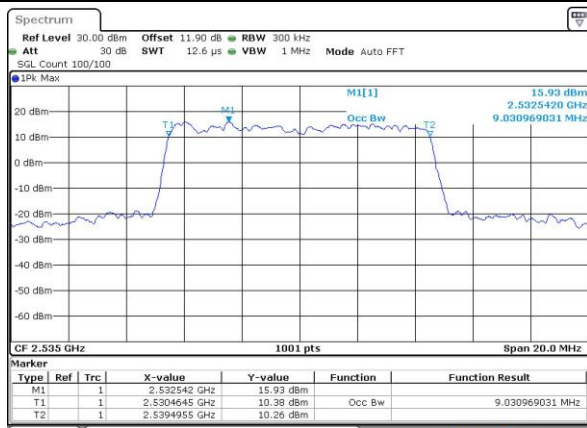
Date: 14 JUN 2017 09:11:11

Lowest Channel / 10MHz / 16QAM



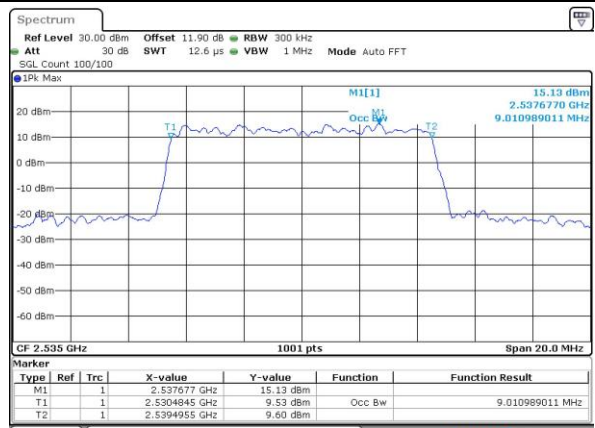
Date: 14 JUN 2017 09:11:21

Middle Channel / 10MHz / QPSK



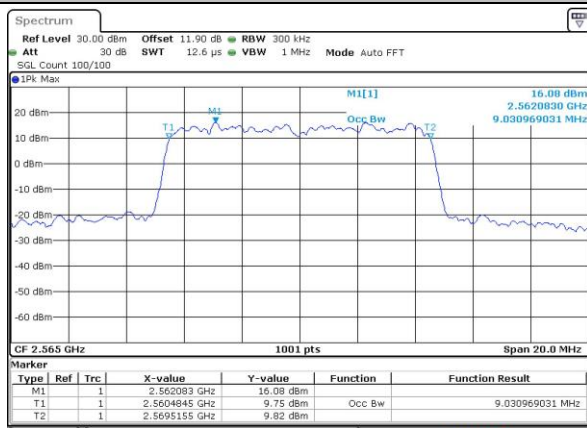
Date: 14 JUN 2017 09:18:19

Middle Channel / 10MHz / 16QAM



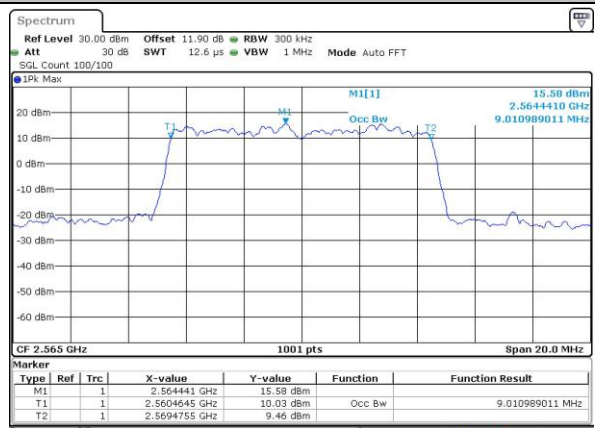
Date: 14 JUN 2017 09:18:29

Highest Channel / 10MHz / QPSK



Date: 14 JUN 2017 09:20:48

Highest Channel / 10MHz / 16QAM

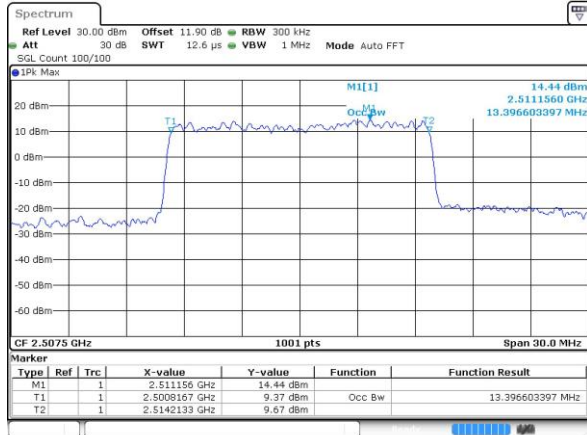


Date: 14 JUN 2017 09:20:58



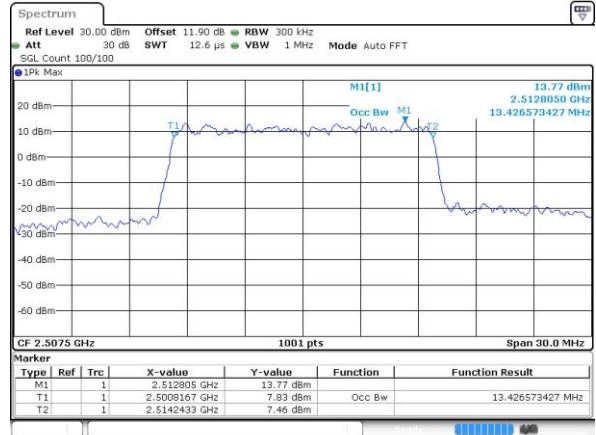
LTE Band 7

Lowest Channel / 15MHz / QPSK



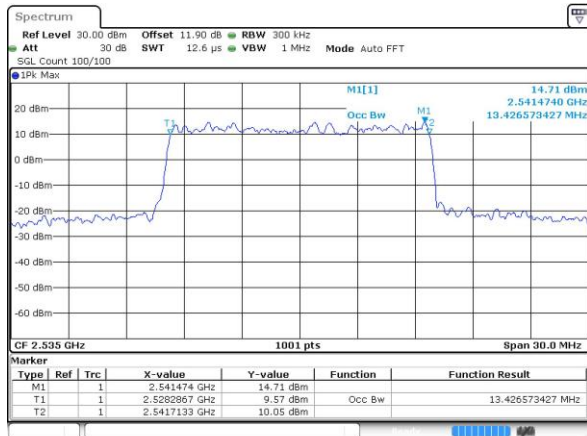
Date: 14 JUN 2017 09:27:56

Lowest Channel / 15MHz / 16QAM



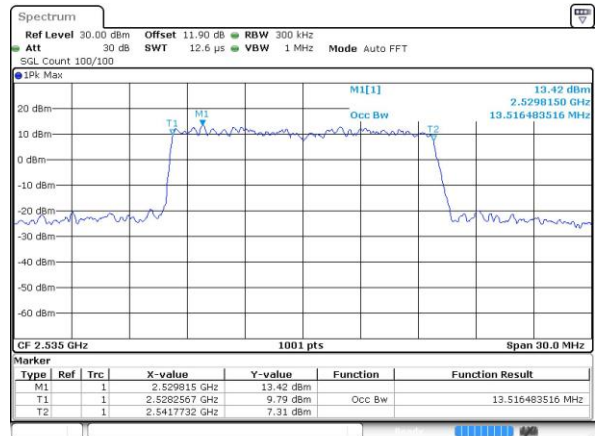
Date: 14 JUN 2017 09:28:06

Middle Channel / 15MHz / QPSK



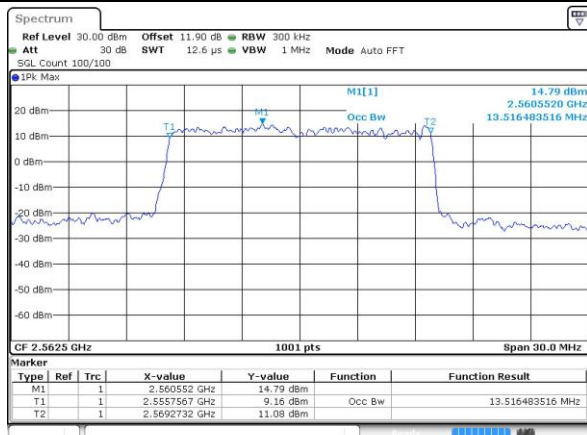
Date: 14 JUN 2017 09:35:04

Middle Channel / 15MHz / 16QAM



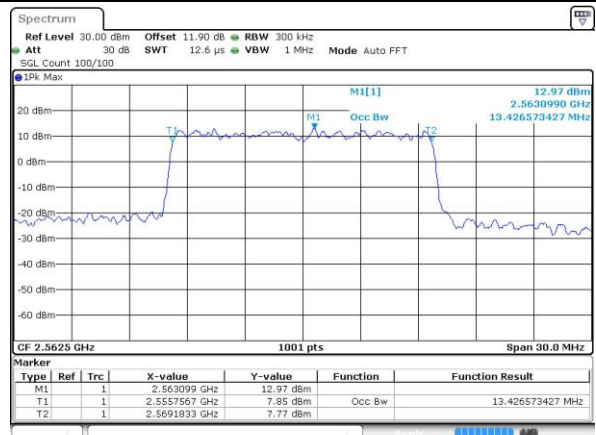
Date: 14 JUN 2017 09:35:14

Highest Channel / 15MHz / QPSK



Date: 14 JUN 2017 09:37:33

Highest Channel / 15MHz / 16QAM

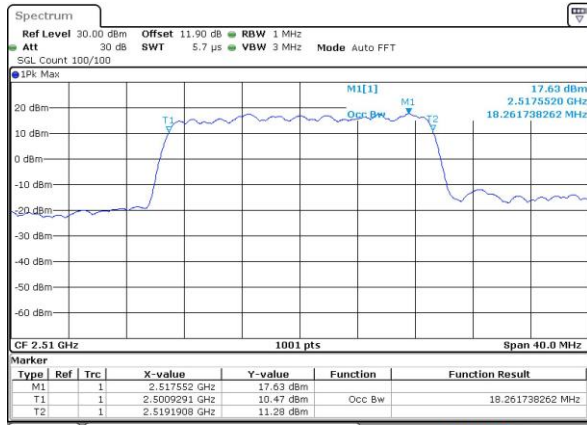


Date: 14 JUN 2017 09:37:43



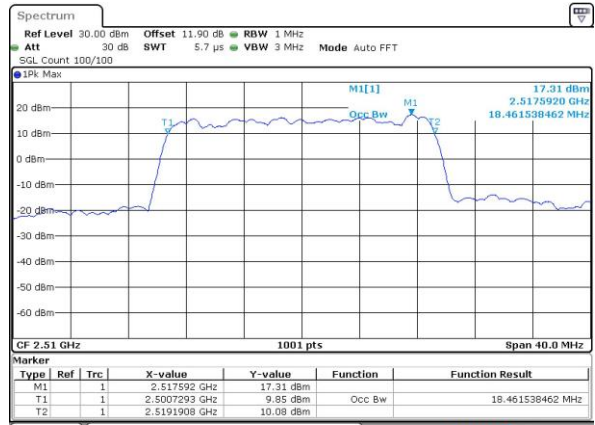
LTE Band 7

Lowest Channel / 20MHz / QPSK



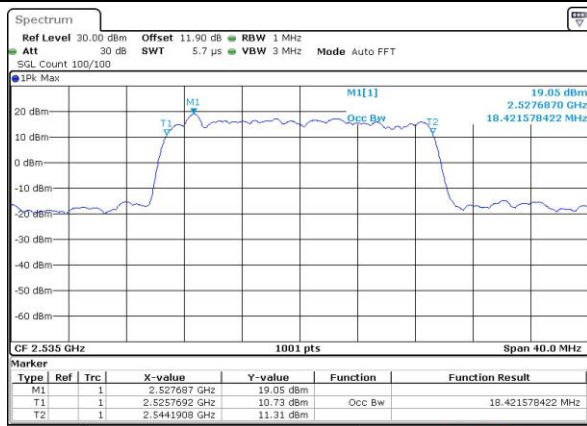
Date: 14 JUN 2017 09:44:41

Lowest Channel / 20MHz / 16QAM



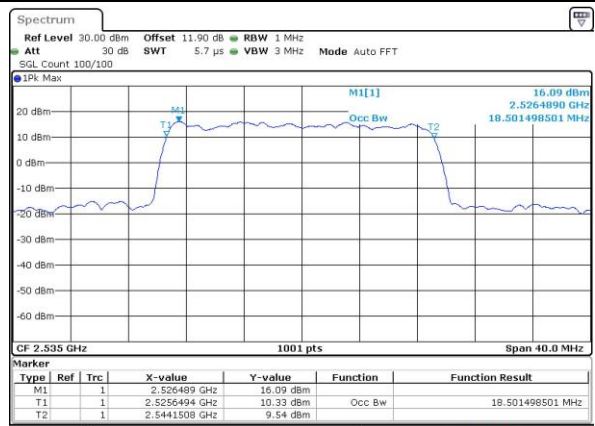
Date: 14 JUN 2017 09:44:51

Middle Channel / 20MHz / QPSK



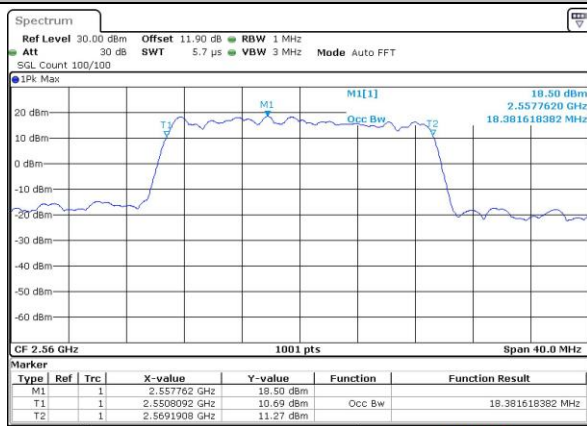
Date: 14 JUN 2017 09:51:48

Middle Channel / 20MHz / 16QAM



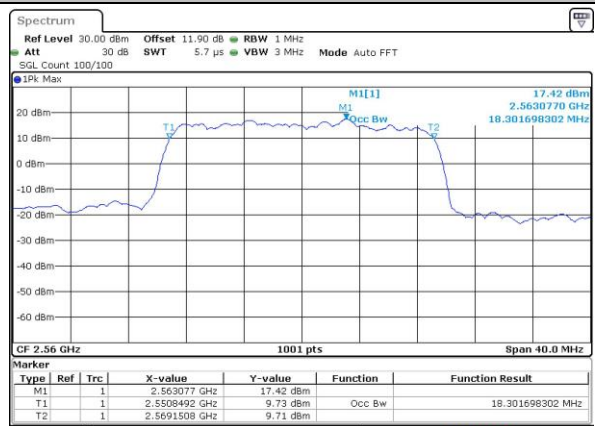
Date: 14 JUN 2017 09:51:59

Highest Channel / 20MHz / QPSK



Date: 14 JUN 2017 09:54:17

Highest Channel / 20MHz / 16QAM

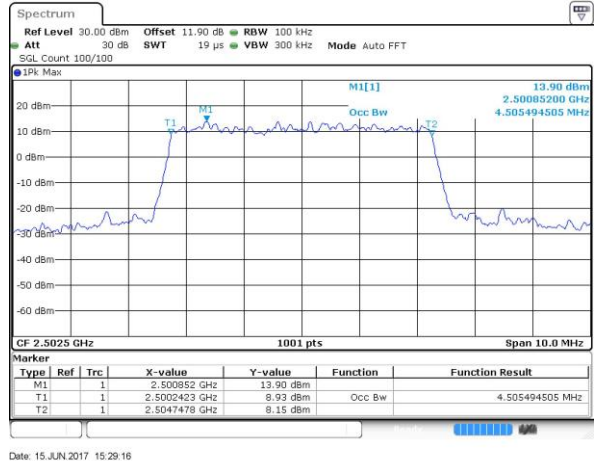


Date: 14 JUN 2017 09:54:28

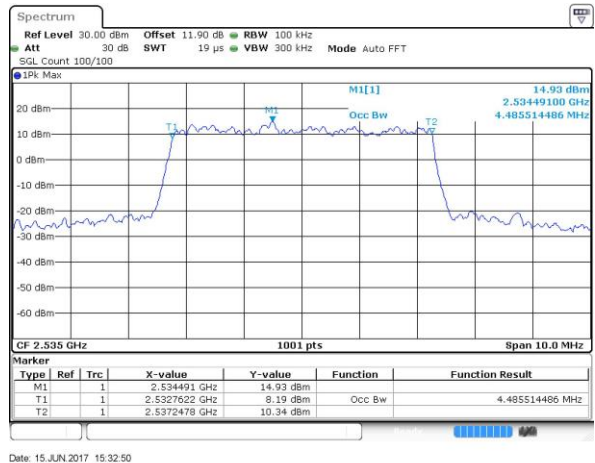


LTE Band 7

Lowest Channel / 5MHz / 64QAM



Middle Channel / 5MHz / 64QAM



Highest Channel / 5MHz / 64QAM

