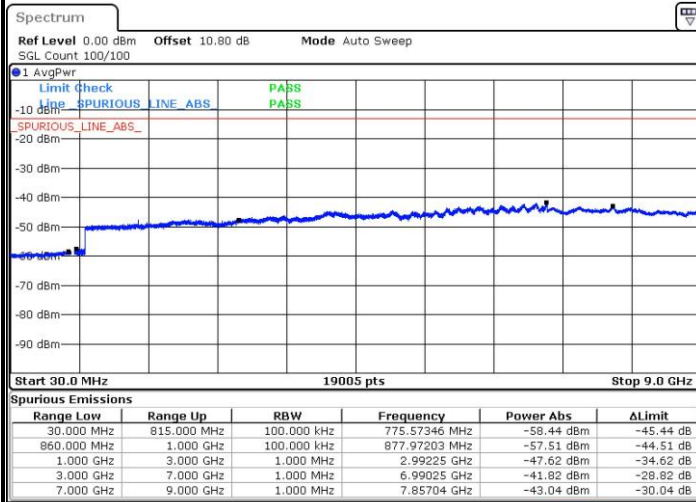




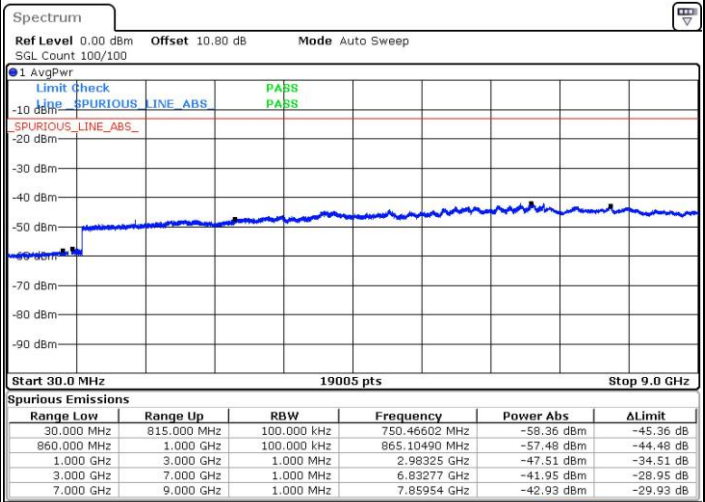
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 17 JUN 2017 21:33:46

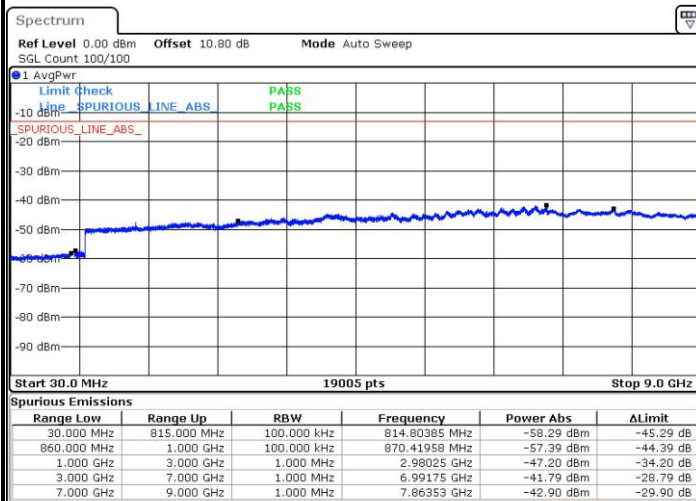
Highest Channel / 16QAM



Date: 17 JUN 2017 21:34:40

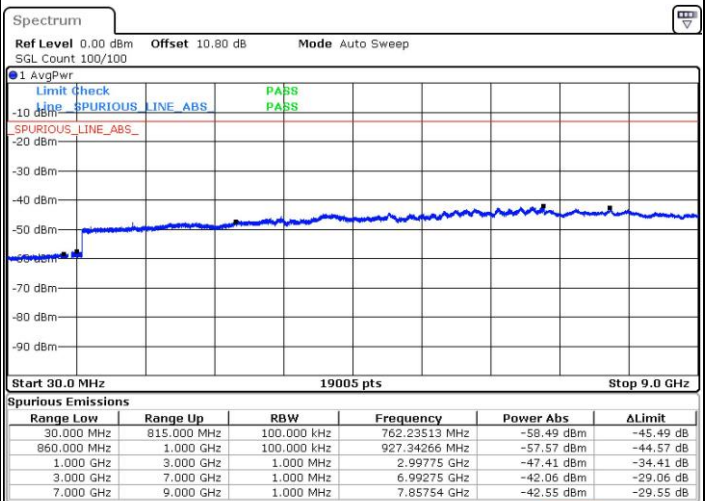
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 17 JUN 2017 21:43:37

Lowest Channel / 16QAM

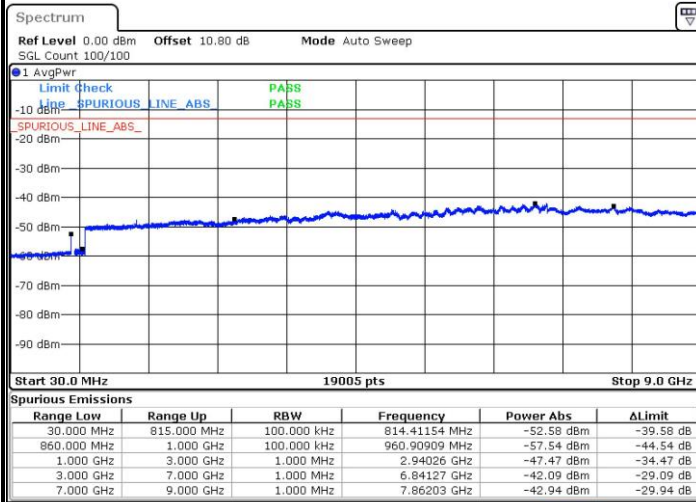


Date: 17 JUN 2017 21:44:31



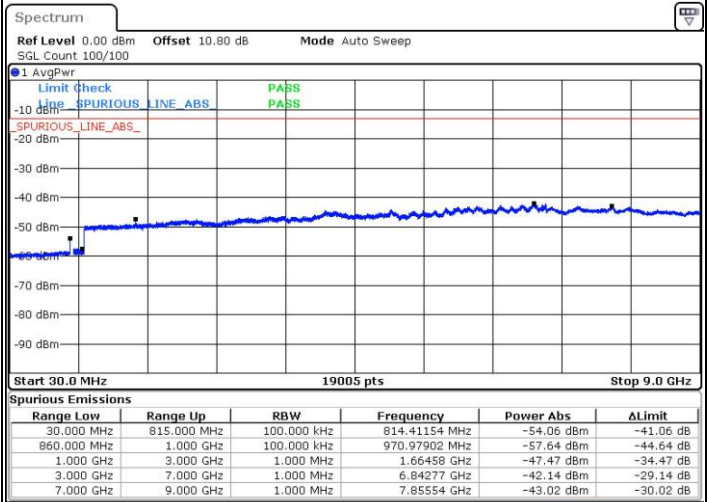
LTE Band 5 / 10MHz

Middle Channel / QPSK



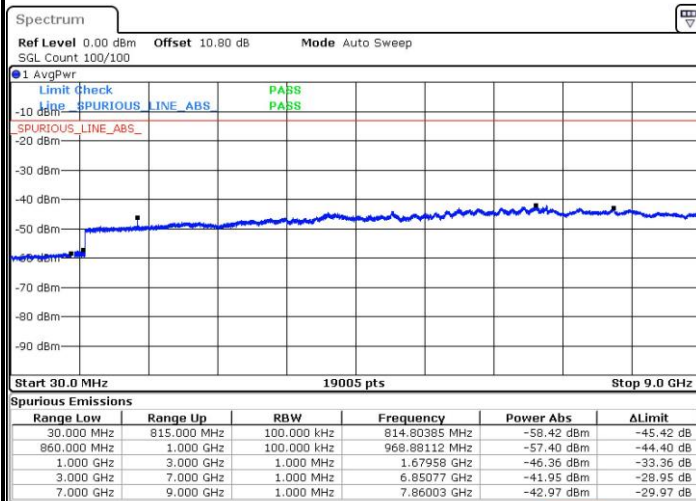
Date: 17 JUN 2017 21:46:07

Middle Channel / 16QAM



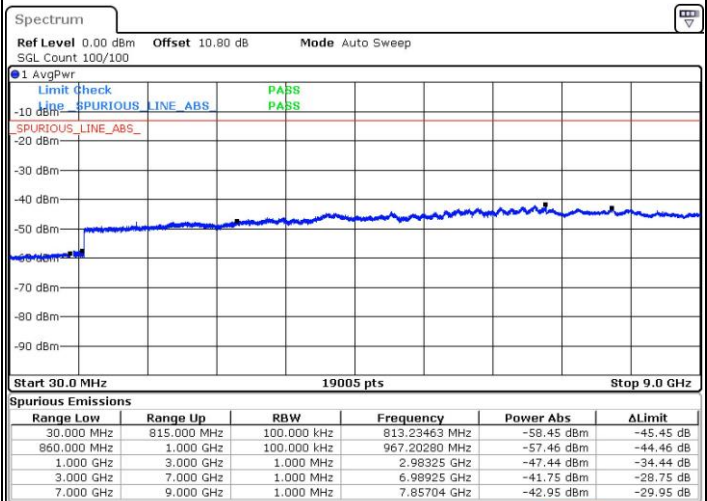
Date: 17 JUN 2017 21:47:01

Highest Channel / QPSK



Date: 17 JUN 2017 21:55:13

Highest Channel / 16QAM

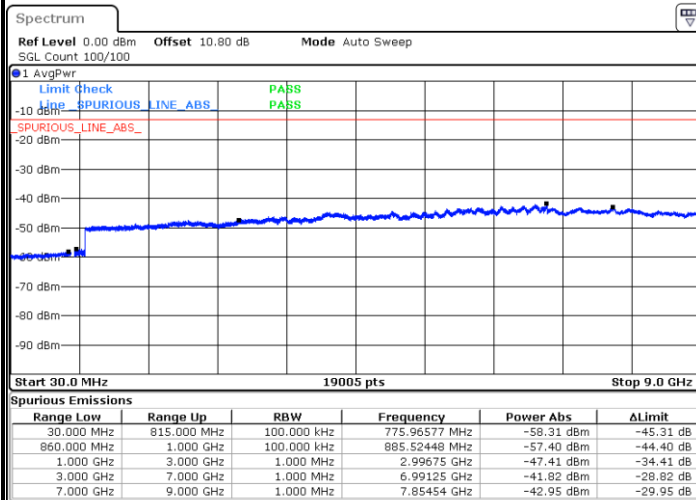


Date: 17 JUN 2017 21:56:07



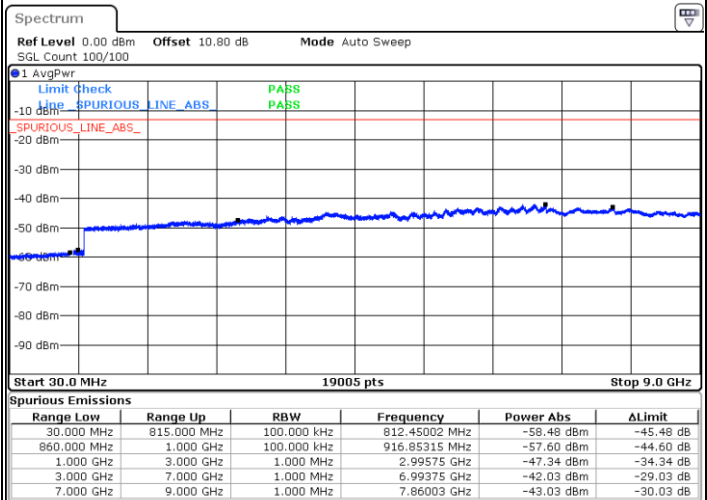
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



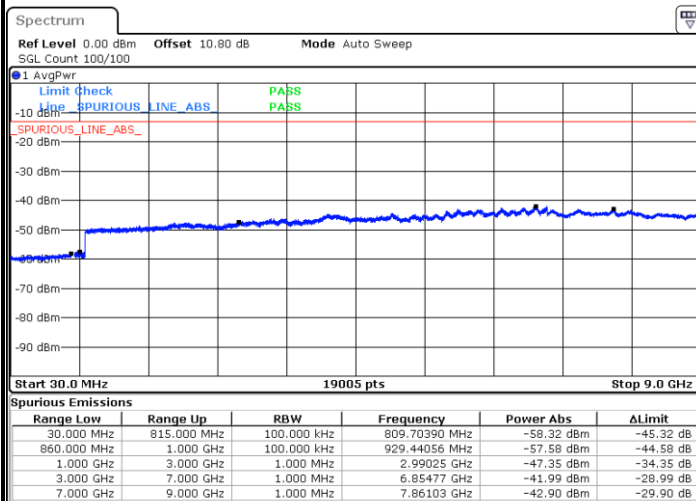
Date: 21 JUN 2017 22:29:12

Middle Channel / 64QAM



Date: 21 JUN 2017 22:30:26

Highest Channel / 64QAM

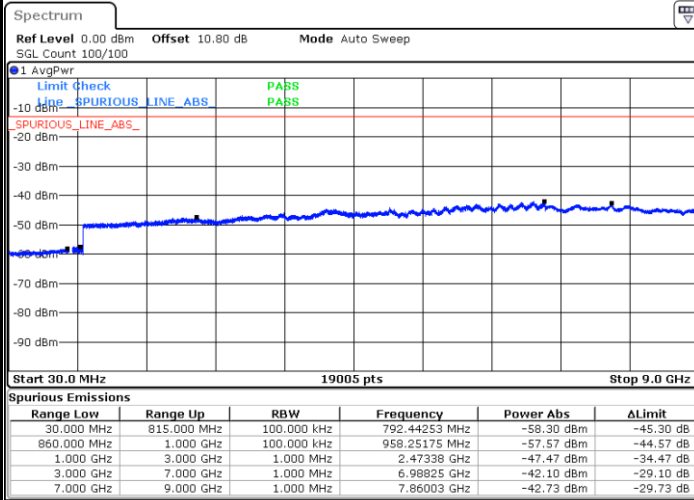


Date: 21 JUN 2017 22:34:57



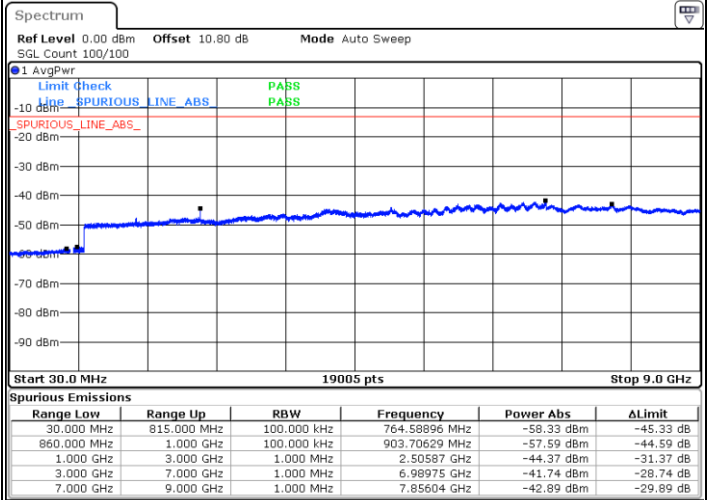
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



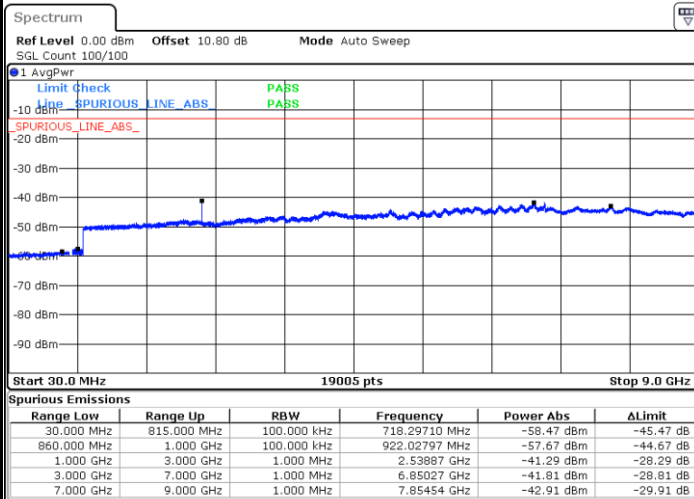
Date: 21 JUN 2017 21:37:58

Middle Channel / 64QAM



Date: 21 JUN 2017 21:39:11

Highest Channel / 64QAM

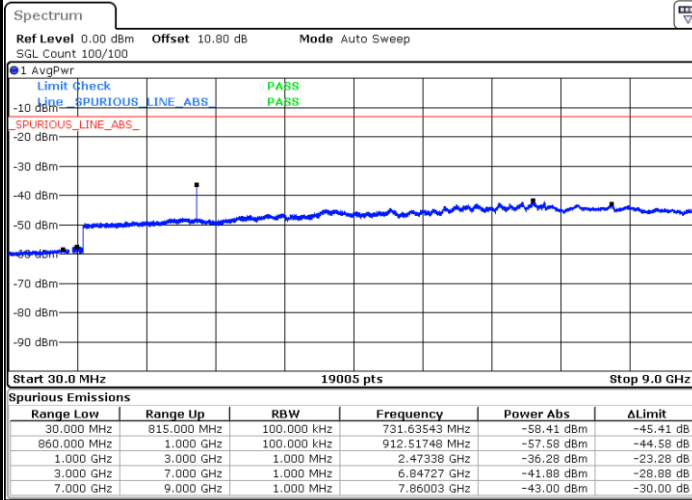


Date: 21 JUN 2017 21:43:43



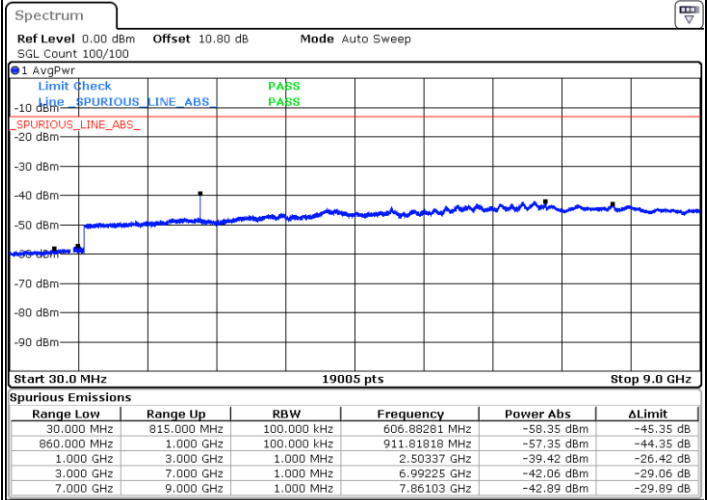
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



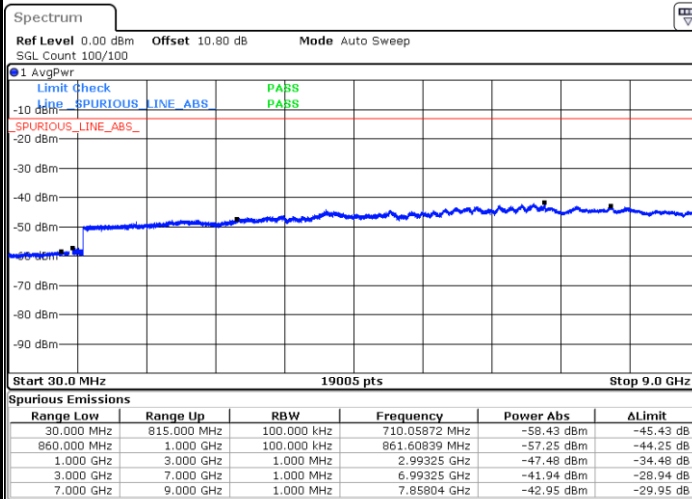
Date: 21 JUN 2017 21:48:14

Middle Channel / 64QAM



Date: 21 JUN 2017 21:49:28

Highest Channel / 64QAM

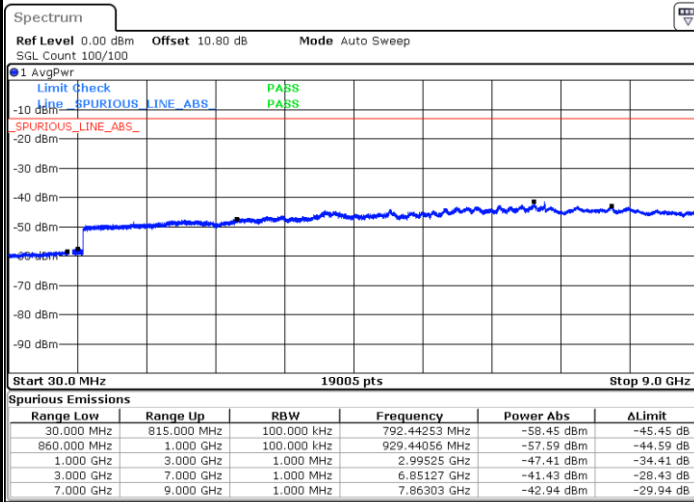


Date: 21 JUN 2017 22:14:24



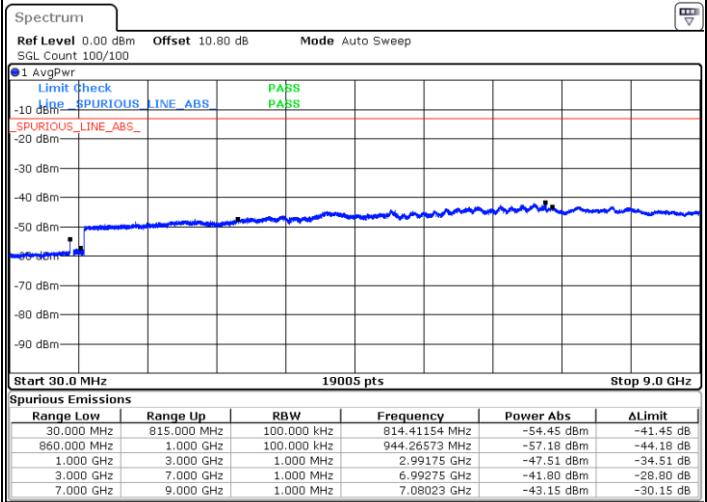
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



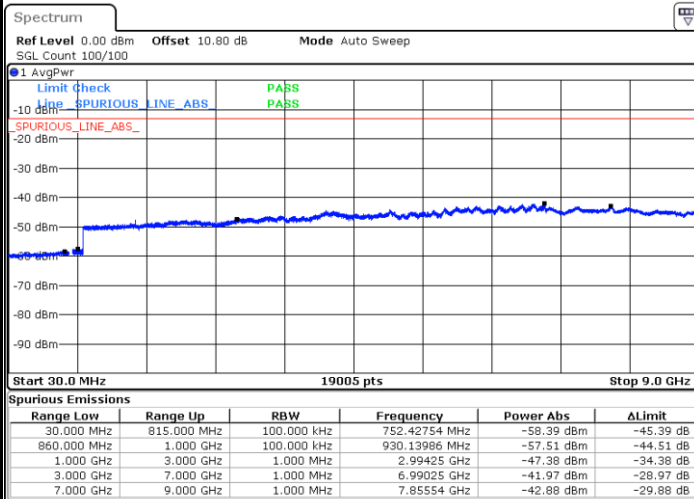
Date: 21 JUN 2017 22:18:55

Middle Channel / 64QAM



Date: 21 JUN 2017 22:20:09

Highest Channel / 64QAM



Date: 21 JUN 2017 22:24:40

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	0.0032	PASS
40	Normal Voltage	0.0033	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0068	
20	Maximum Voltage	0.0071	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0026	

Note:

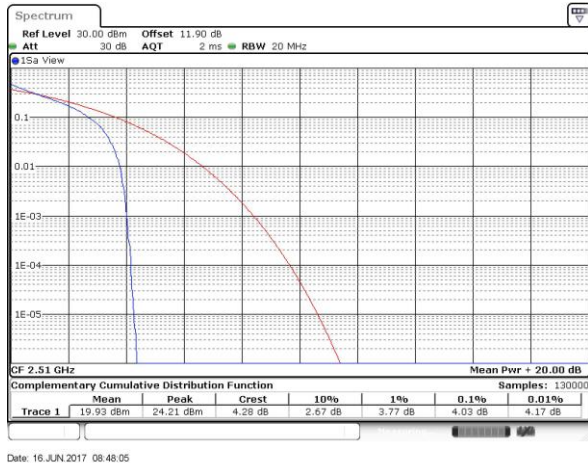
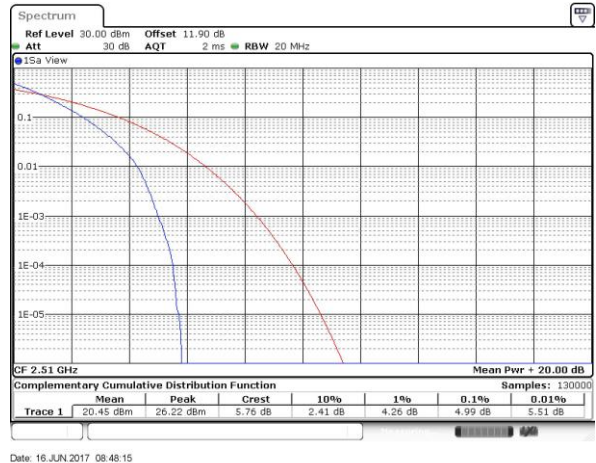
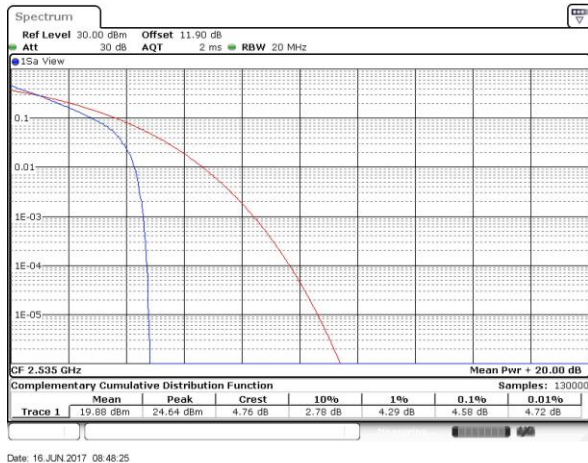
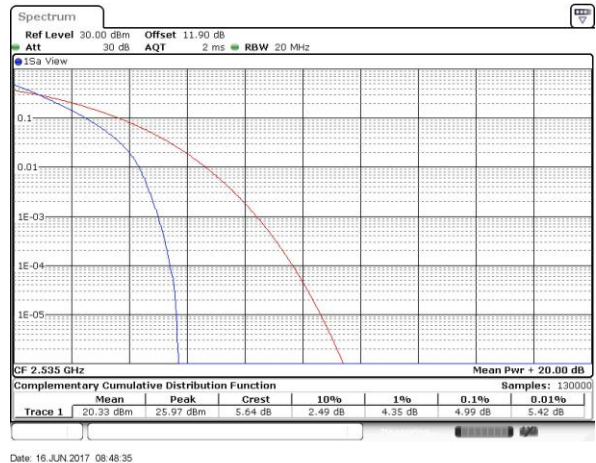
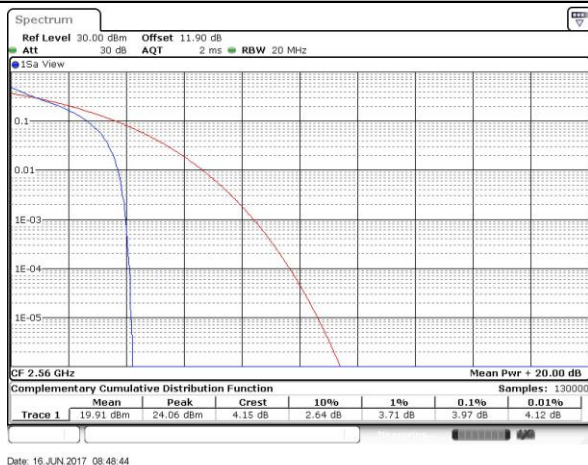
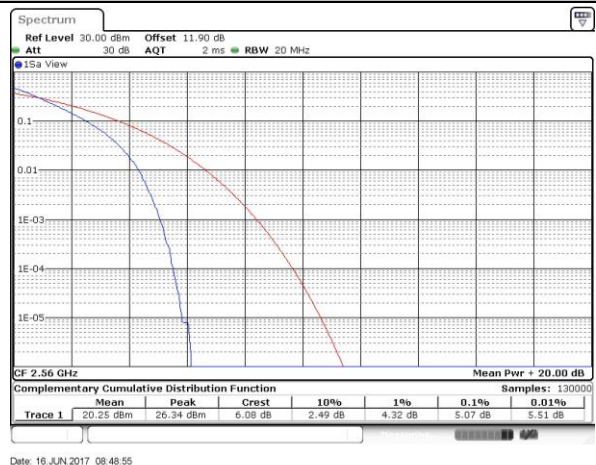
1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.1 V. ; Maximum Voltage =3.6 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

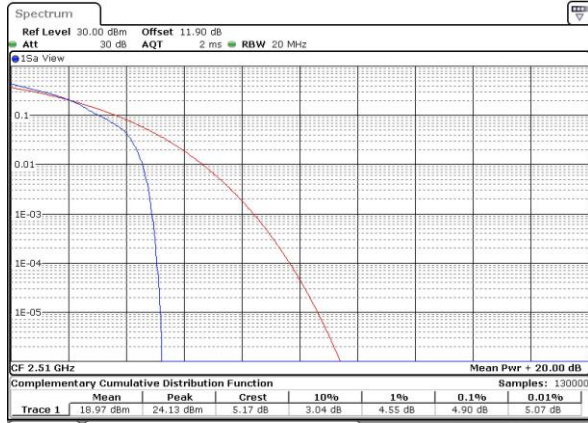


LTE Band 7

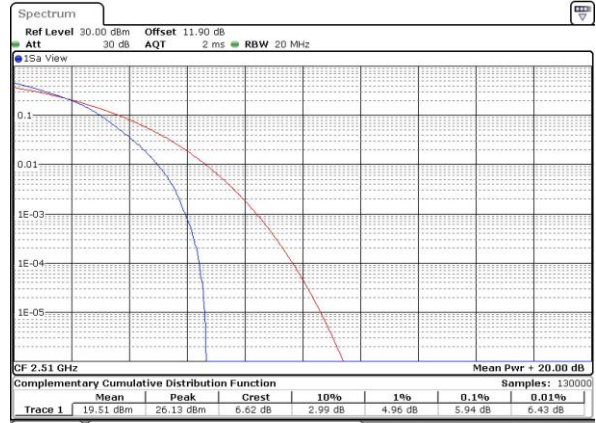
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.03	4.99	4.9	5.94	PASS
Middle CH	4.58	4.99	5.3	6	
Highest CH	3.97	5.07	5.22	6.03	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.57	6.52			PASS
Middle CH	6.17	6.55			
Highest CH	5.86	6.52			

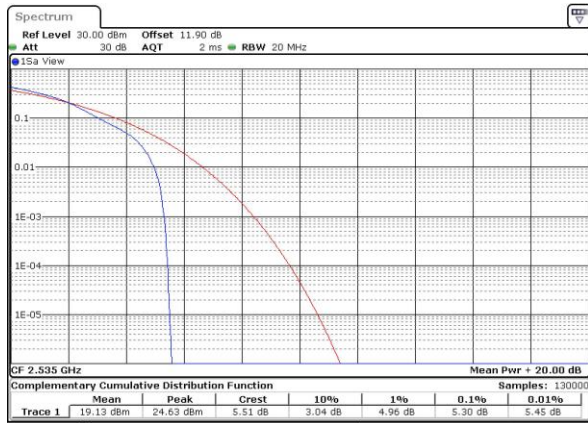
LTE Band 7 / 20MHz / QPSK
Lowest Channel / 1RB

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


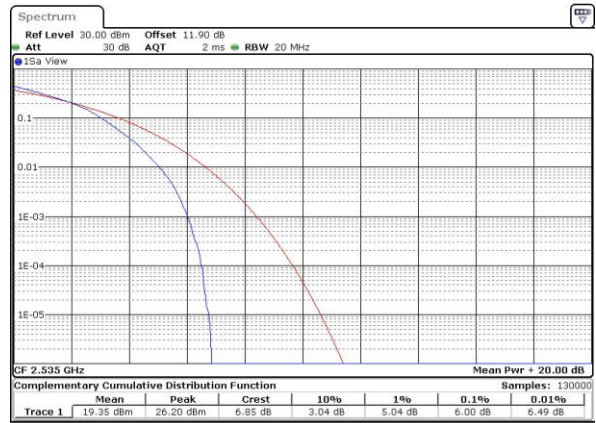
Date: 16 JUN 2017 09:09:42

Lowest Channel / Full RB


Date: 16 JUN 2017 09:10:02

Middle Channel / 1RB


Date: 16 JUN 2017 08:47:21

Middle Channel / Full RB


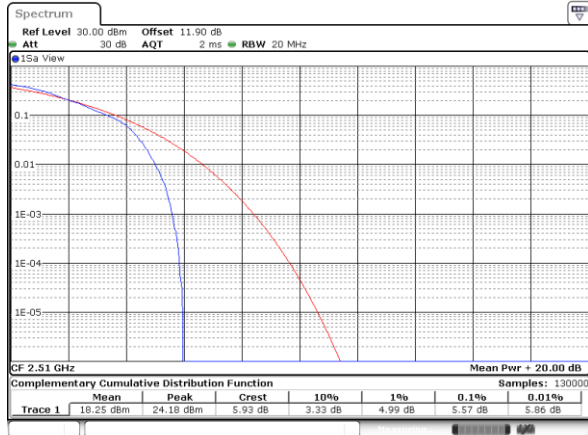
Date: 16 JUN 2017 08:47:32

Highest Channel / 1RB

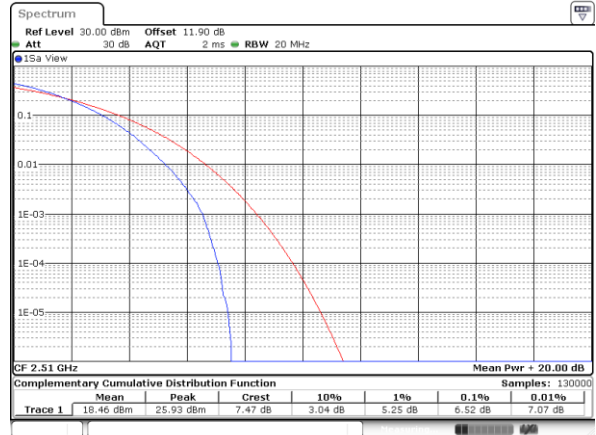

Date: 16 JUN 2017 08:47:43

Highest Channel / Full RB

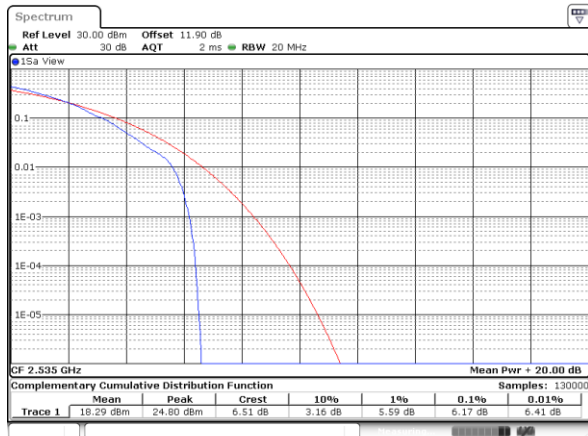

Date: 16 JUN 2017 08:47:53

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


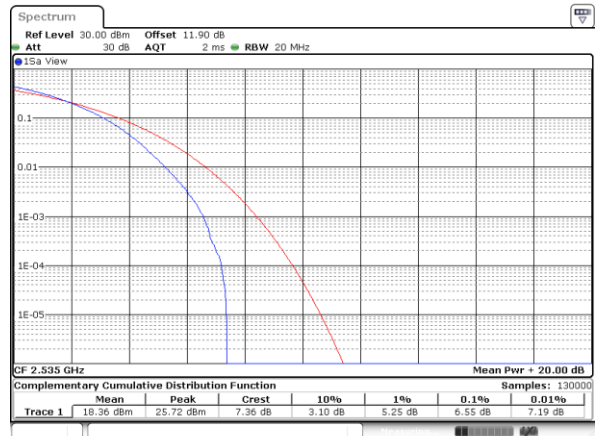
Date: 22 JUN 2017 01:10:58

Lowest Channel / Full RB


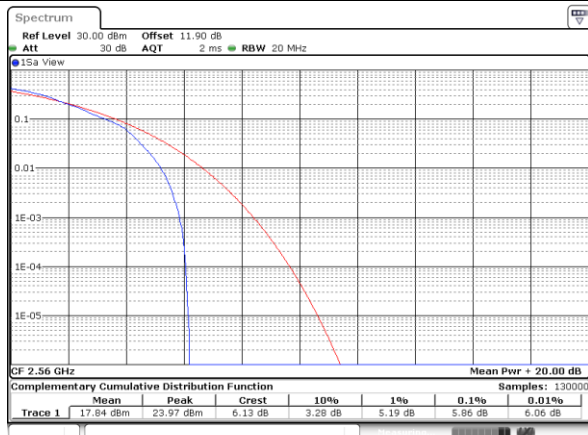
Date: 22 JUN 2017 01:11:08

Middle Channel / 1RB


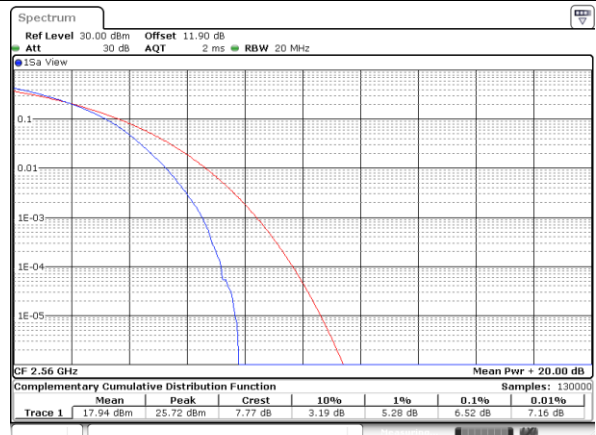
Date: 22 JUN 2017 01:11:17

Middle Channel / Full RB


Date: 22 JUN 2017 01:11:27

Highest Channel / 1RB


Date: 22 JUN 2017 01:11:43

Highest Channel / Full RB


Date: 22 JUN 2017 01:11:53

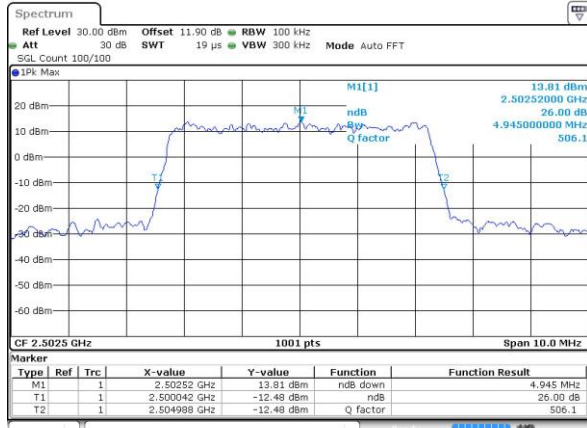
**26dB Bandwidth**

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	-	-	-	-	4.95	4.84	9.73	9.67	14.48	14.69	20.26	20.10
Middle CH	-	-	-	-	4.89	4.78	9.75	9.81	14.21	14.60	20.14	20.30
Highest CH	-	-	-	-	4.90	4.86	9.79	9.81	14.45	14.51	20.22	20.42
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.87	-	9.91	-	14.51	-	20.14	-
Middle CH	-	-	-	-	4.9	-	9.75	-	14.33	-	20.1	-
Highest CH	-	-	-	-	4.9	-	9.77	-	14.36	-	20.22	-



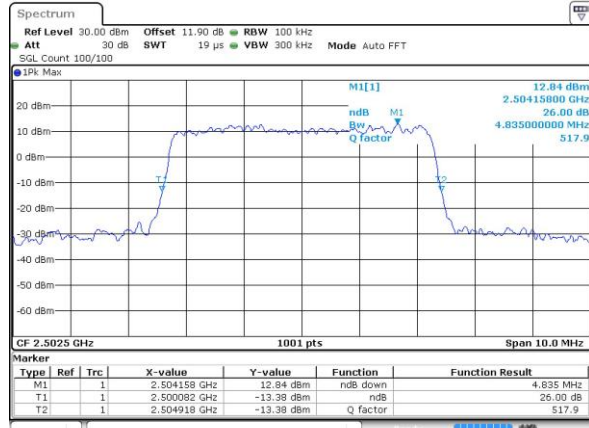
LTE Band 7

Lowest Channel / 5MHz / QPSK



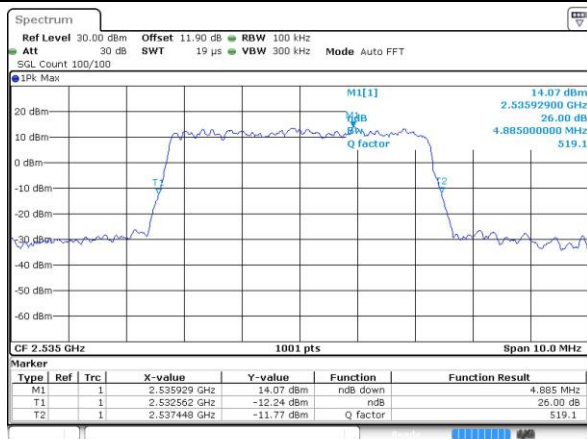
Date: 16 JUN 2017 01:12:17

Lowest Channel / 5MHz / 16QAM



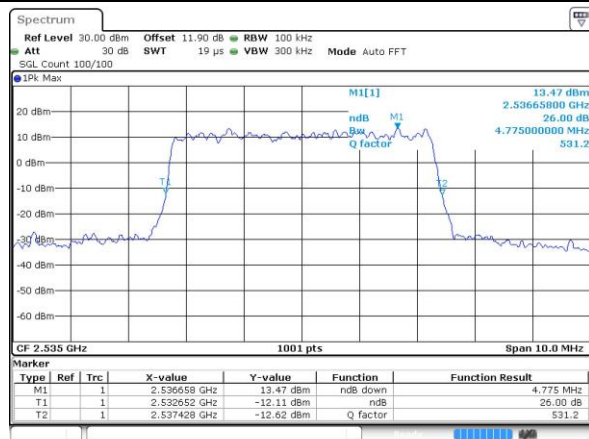
Date: 16 JUN 2017 01:12:28

Middle Channel / 5MHz / QPSK



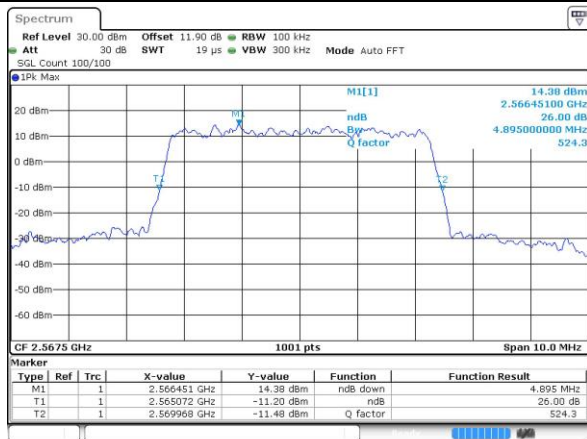
Date: 16 JUN 2017 01:19:25

Middle Channel / 5MHz / 16QAM



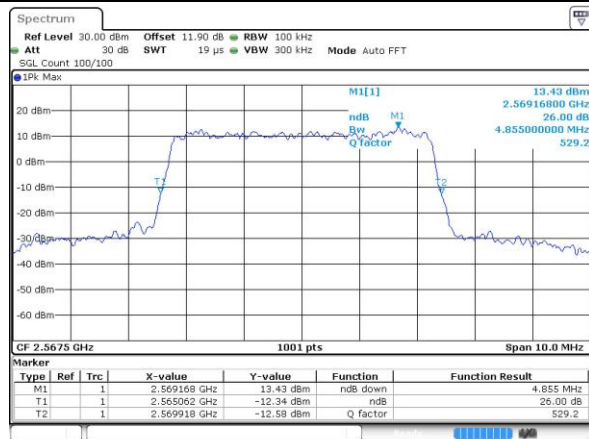
Date: 16 JUN 2017 01:19:36

Highest Channel / 5MHz / QPSK



Date: 16 JUN 2017 01:21:54

Highest Channel / 5MHz / 16QAM

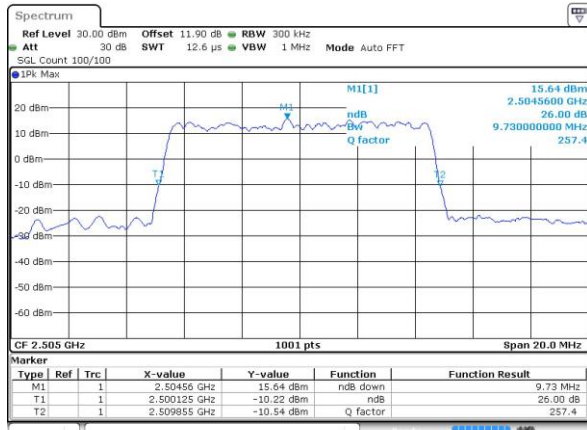


Date: 16 JUN 2017 01:22:05



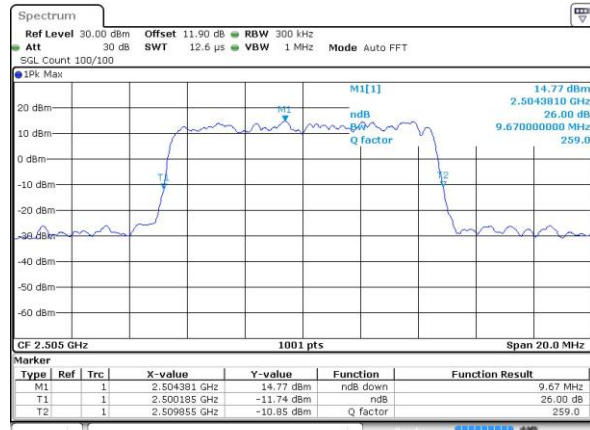
LTE Band 7

Lowest Channel / 10MHz / QPSK



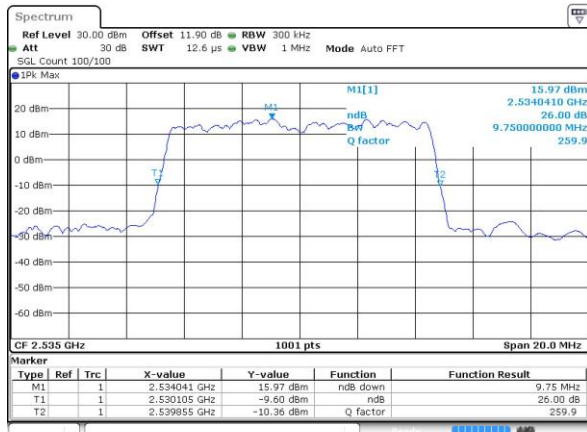
Date: 16 JUN 2017 01:29:05

Lowest Channel / 10MHz / 16QAM



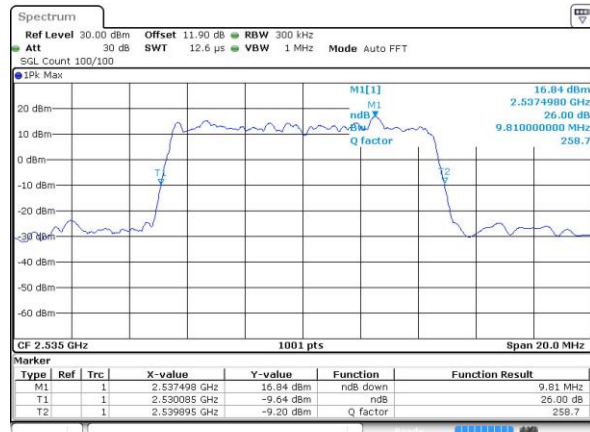
Date: 16 JUN 2017 01:29:17

Middle Channel / 10MHz / QPSK



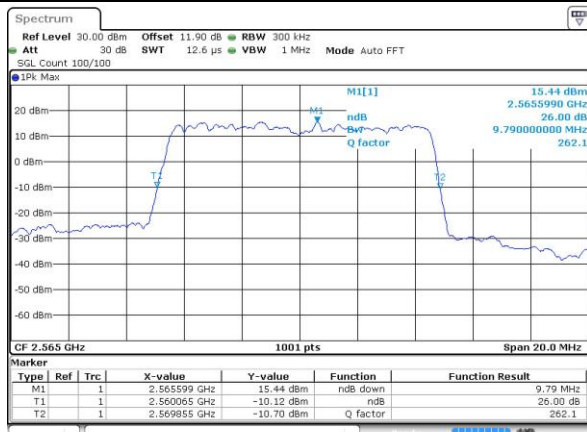
Date: 16 JUN 2017 01:36:15

Middle Channel / 10MHz / 16QAM



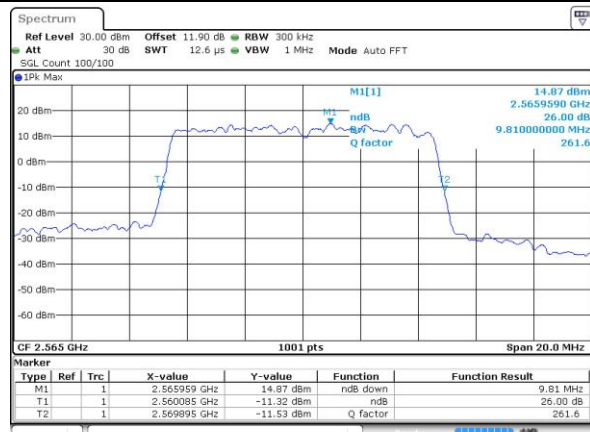
Date: 16 JUN 2017 01:36:25

Highest Channel / 10MHz / QPSK



Date: 16 JUN 2017 01:38:44

Highest Channel / 10MHz / 16QAM

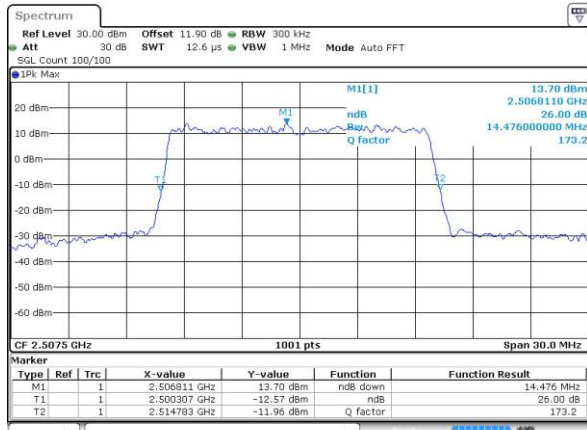


Date: 16 JUN 2017 01:38:54



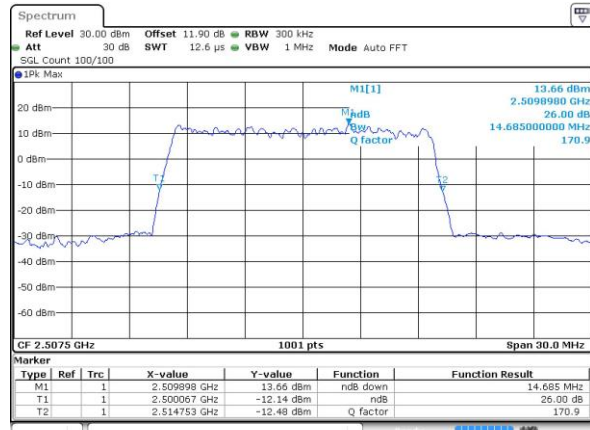
LTE Band 7

Lowest Channel / 15MHz / QPSK



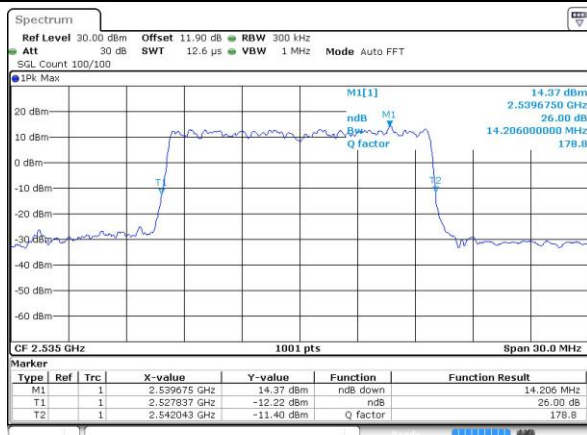
Date: 16 JUN 2017 01:45:52

Lowest Channel / 15MHz / 16QAM



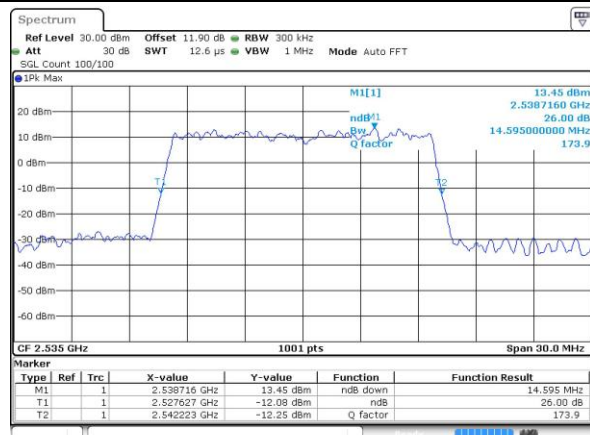
Date: 16 JUN 2017 01:46:03

Middle Channel / 15MHz / QPSK



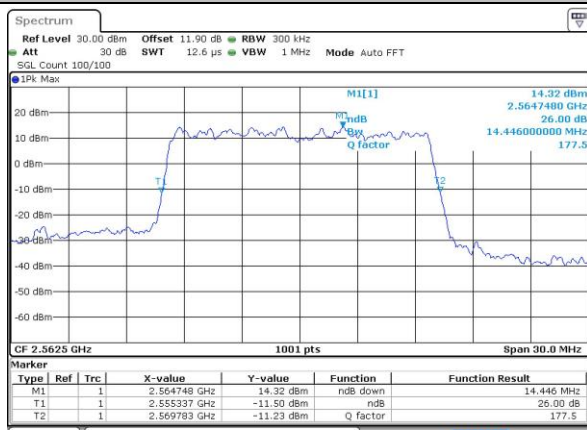
Date: 16 JUN 2017 01:53:01

Middle Channel / 15MHz / 16QAM



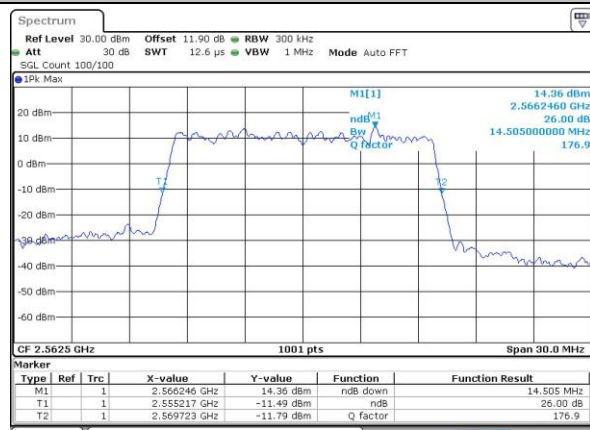
Date: 16 JUN 2017 01:53:11

Highest Channel / 15MHz / QPSK



Date: 16 JUN 2017 01:55:30

Highest Channel / 15MHz / 16QAM

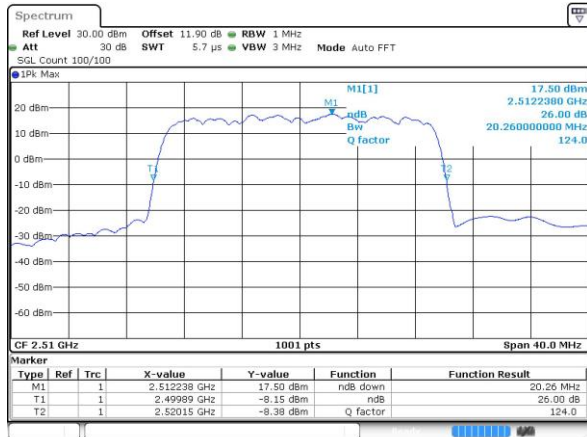


Date: 16 JUN 2017 01:55:41

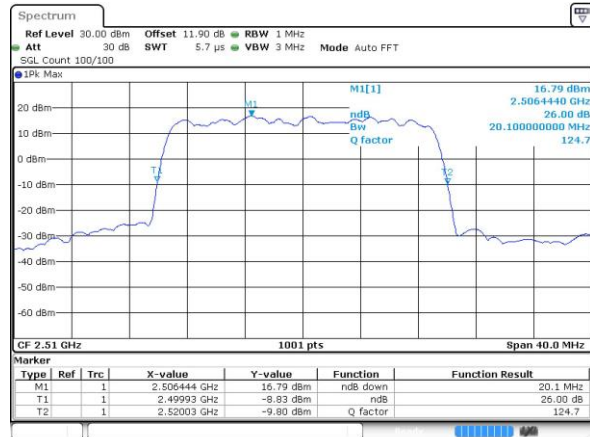


LTE Band 7

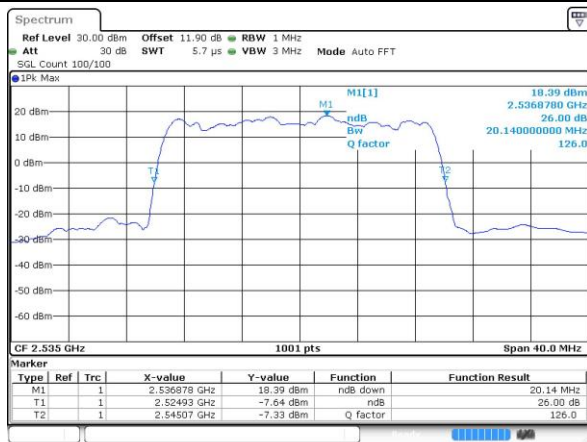
Lowest Channel / 20MHz / QPSK



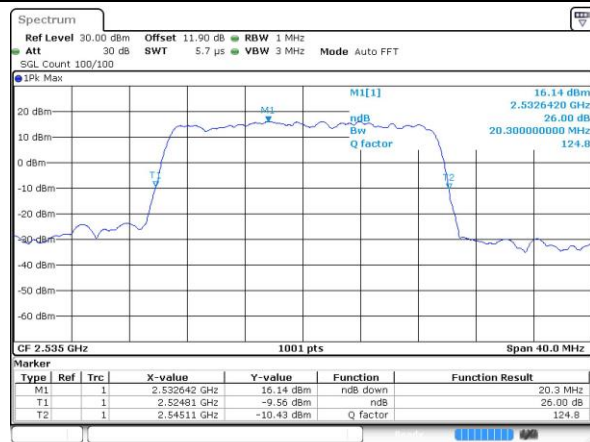
Lowest Channel / 20MHz / 16QAM



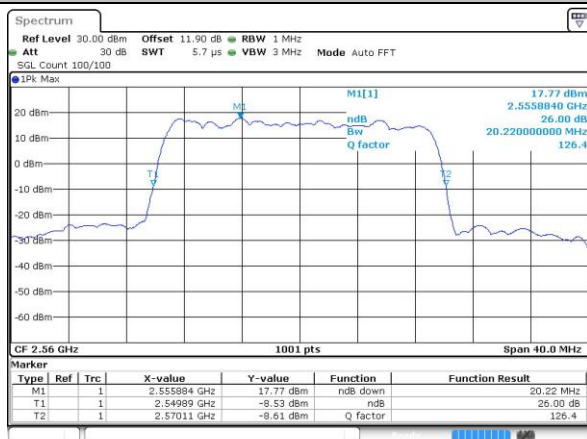
Middle Channel / 20MHz / QPSK



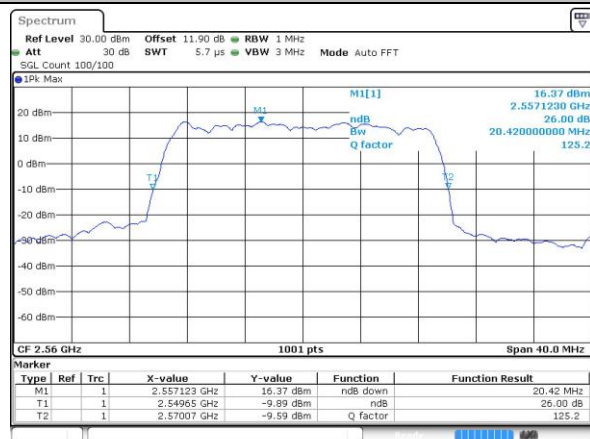
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



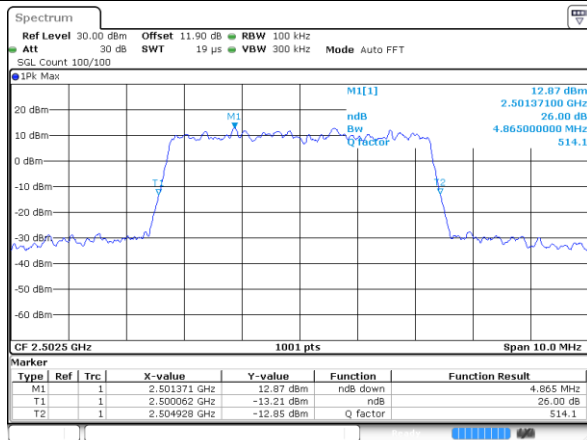
Highest Channel / 20MHz / 16QAM



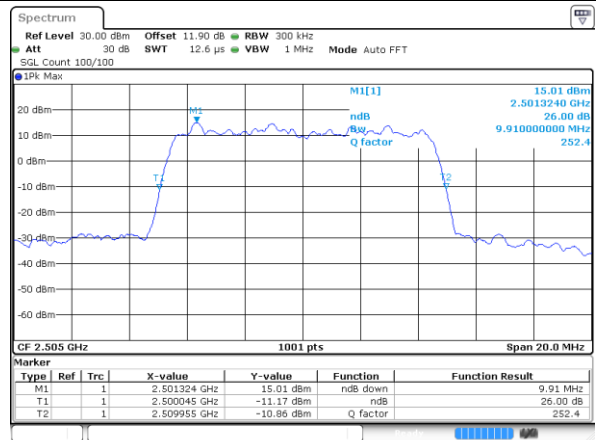


LTE Band 7

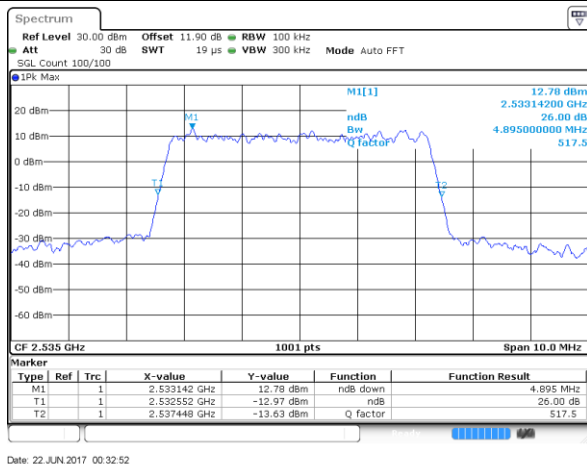
Lowest Channel / 5MHz / 64QAM



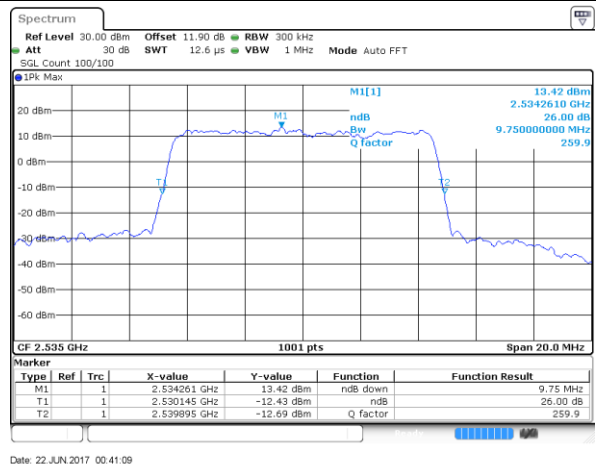
Lowest Channel / 10MHz / 64QAM



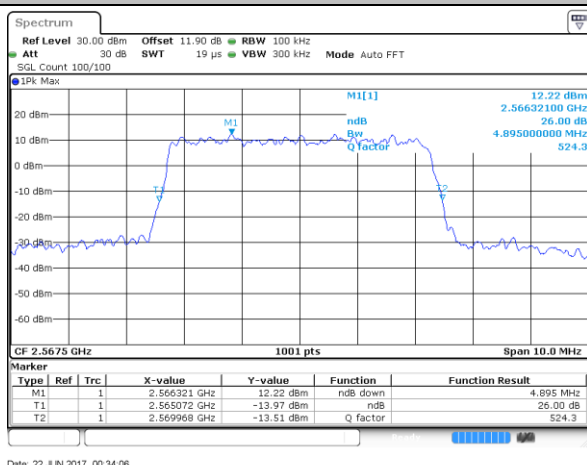
Middle Channel / 5MHz / 64QAM



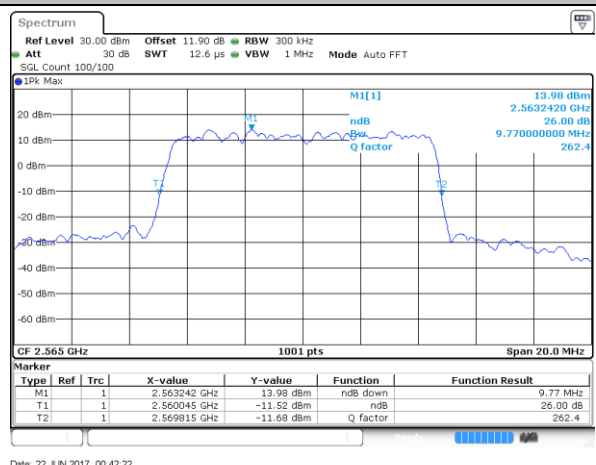
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



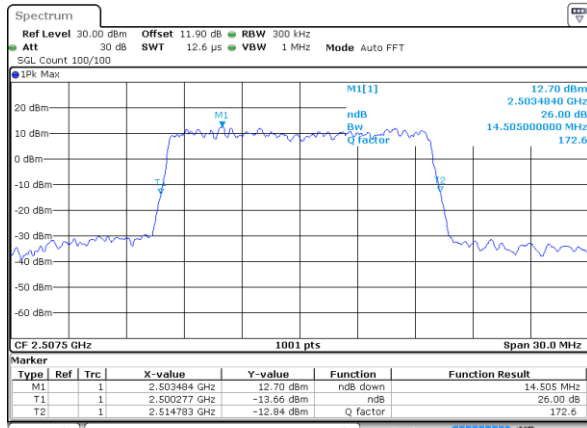
Highest Channel / 10MHz / 64QAM





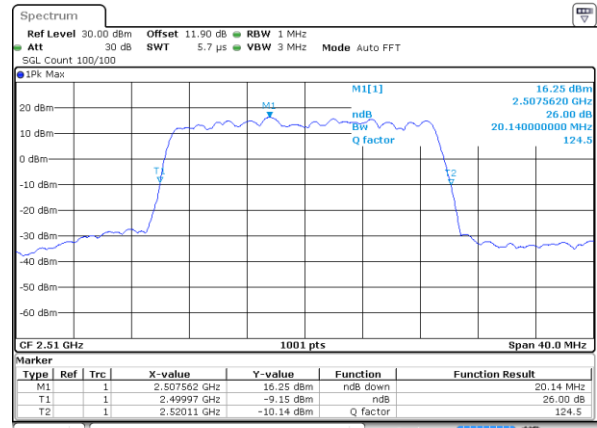
LTE Band 7

Lowest Channel / 15MHz / 64QAM



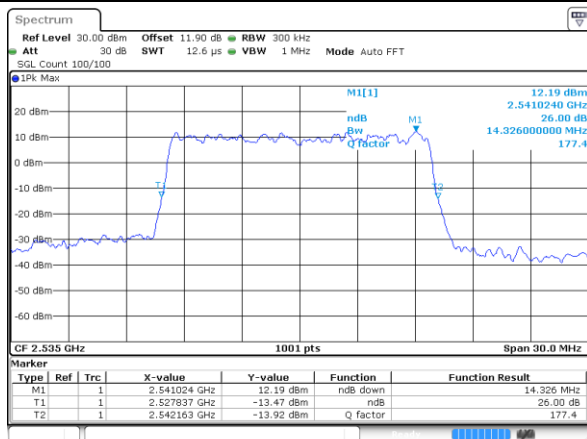
Date: 22 JUN 2017 00:45:54

Lowest Channel / 20MHz / 64QAM



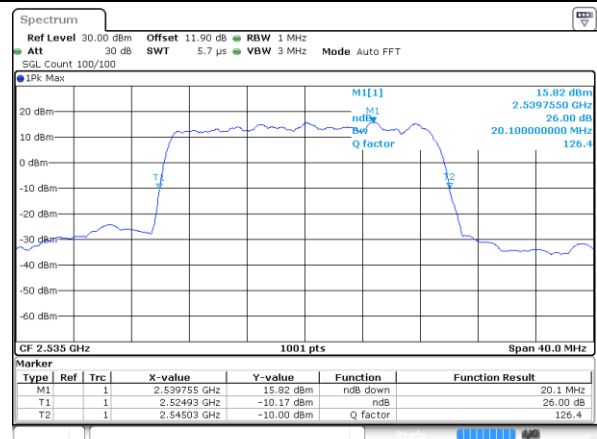
Date: 22 JUN 2017 00:54:12

Middle Channel / 15MHz / 64QAM



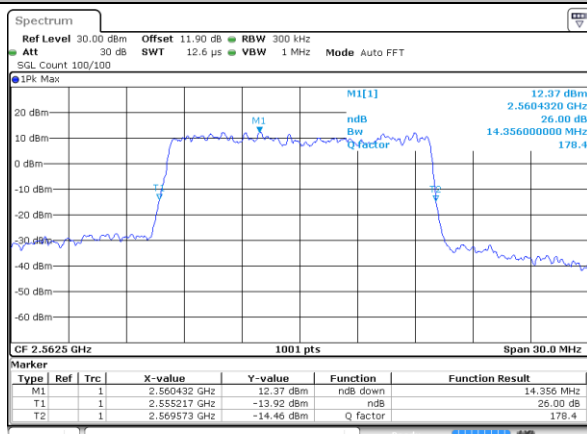
Date: 22 JUN 2017 00:49:26

Middle Channel / 20MHz / 64QAM



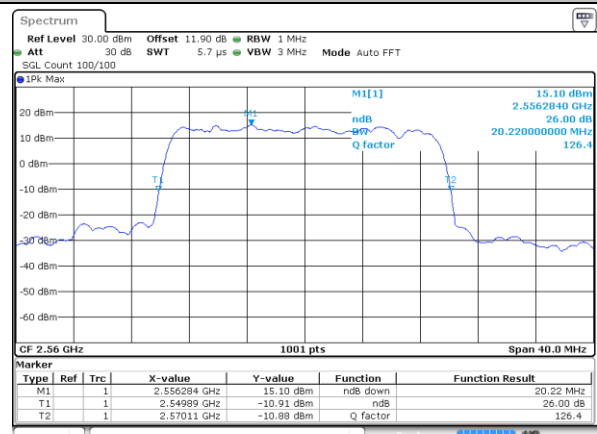
Date: 22 JUN 2017 00:57:43

Highest Channel / 15MHz / 64QAM



Date: 22 JUN 2017 00:50:40

Highest Channel / 20MHz / 64QAM



Date: 22 JUN 2017 00:58:57

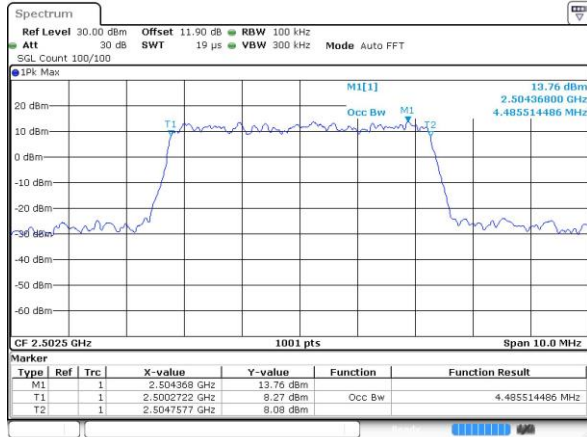
**Occupied Bandwidth**

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	-	-	-	-	4.49	4.49	8.99	8.99	13.43	13.43	18.3	18.34
Middle CH	-	-	-	-	4.51	4.5	8.95	9.05	13.4	13.43	18.42	18.46
Highest CH	-	-	-	-	4.48	4.5	9.03	9.01	13.37	13.46	18.26	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	-	-	-	-	4.51	-	9.03	-	13.46	-	18.26	-
Middle CH	-	-	-	-	4.51	-	9.01	-	13.4	-	18.34	-
Highest CH	-	-	-	-	4.5	-	8.99	-	13.4	-	18.34	-



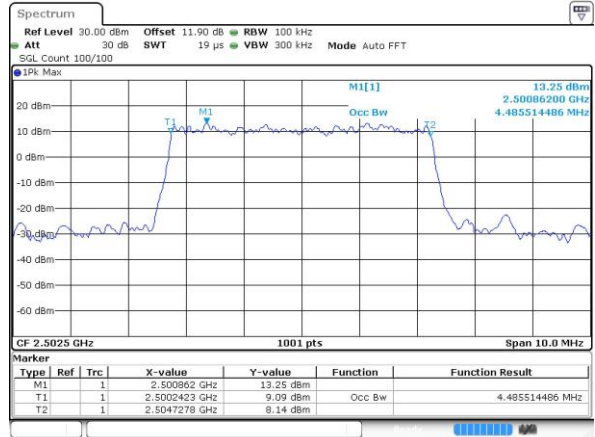
LTE Band 7

Lowest Channel / 5MHz / QPSK



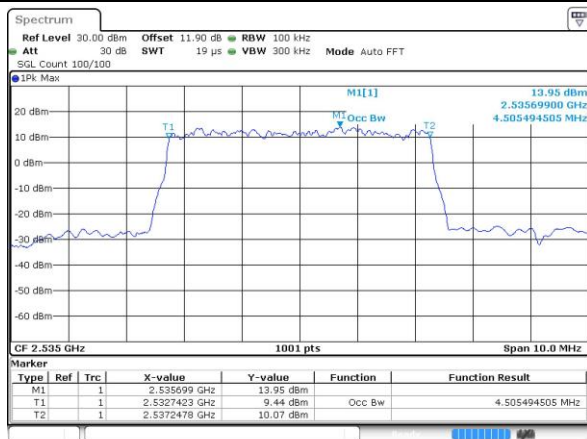
Date: 16 JUN 2017 01:11:57

Lowest Channel / 5MHz / 16QAM



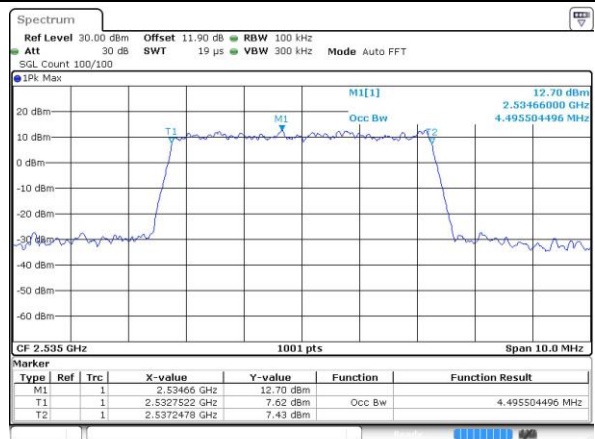
Date: 16 JUN 2017 01:12:07

Middle Channel / 5MHz / QPSK



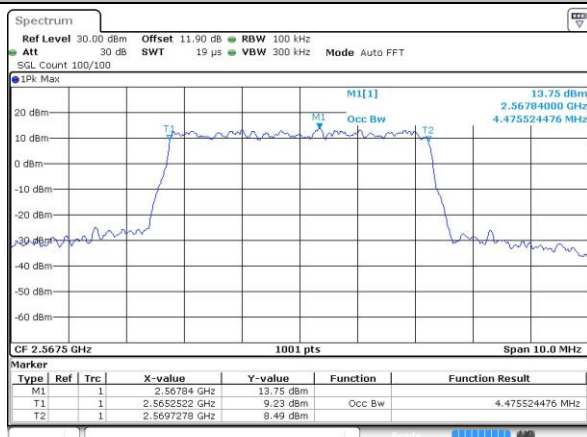
Date: 16 JUN 2017 01:19:05

Middle Channel / 5MHz / 16QAM



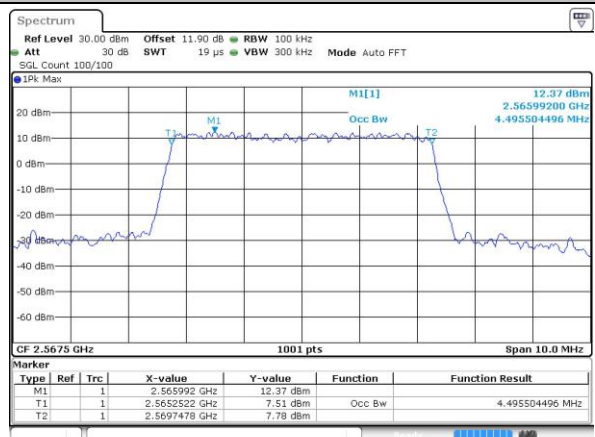
Date: 16 JUN 2017 01:19:15

Highest Channel / 5MHz / QPSK



Date: 16 JUN 2017 01:21:34

Highest Channel / 5MHz / 16QAM

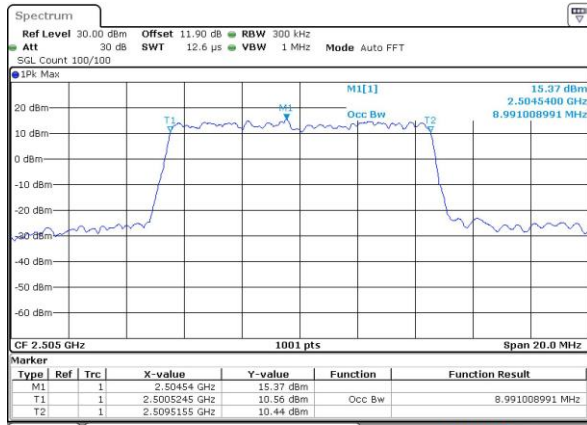


Date: 16 JUN 2017 01:21:44



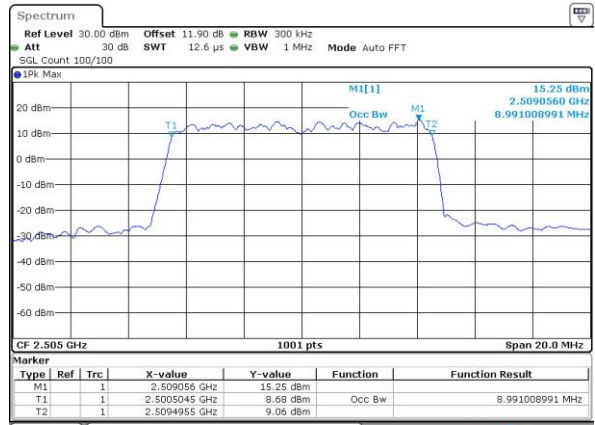
LTE Band 7

Lowest Channel / 10MHz / QPSK



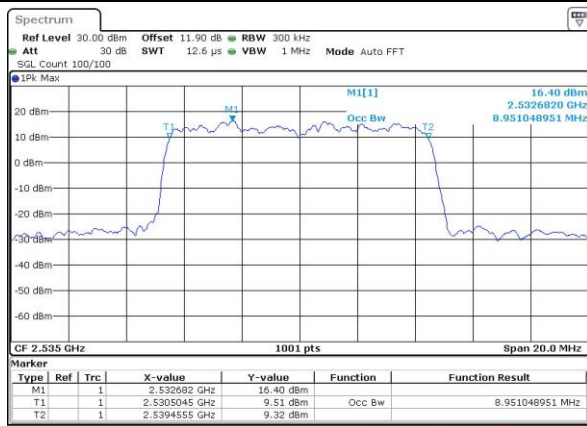
Date: 16 JUN 2017 01:28:43

Lowest Channel / 10MHz / 16QAM



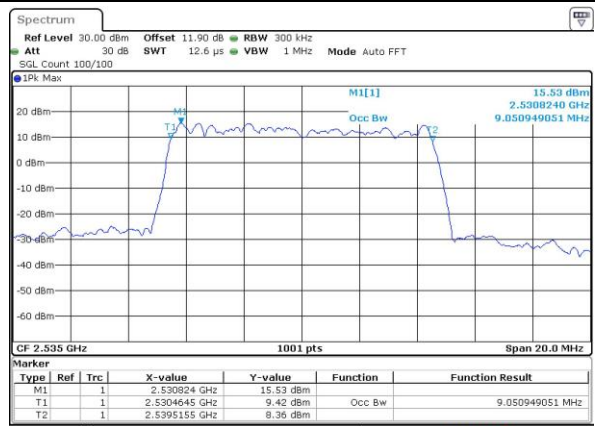
Date: 16 JUN 2017 01:28:53

Middle Channel / 10MHz / QPSK



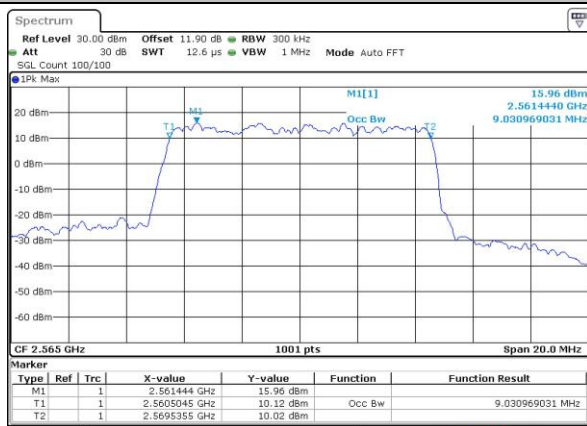
Date: 16 JUN 2017 01:35:54

Middle Channel / 10MHz / 16QAM



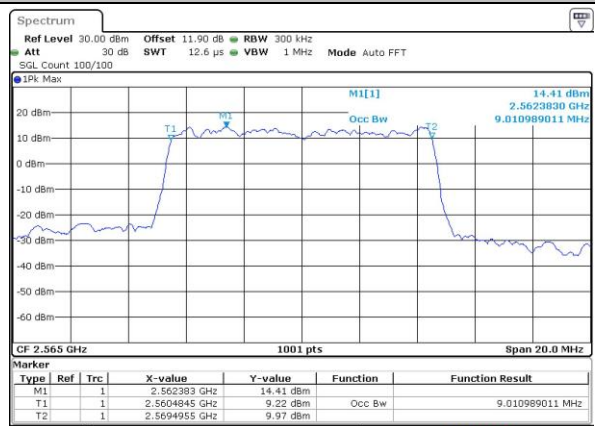
Date: 16 JUN 2017 01:36:04

Highest Channel / 10MHz / QPSK



Date: 16 JUN 2017 01:38:23

Highest Channel / 10MHz / 16QAM



Date: 16 JUN 2017 01:38:33