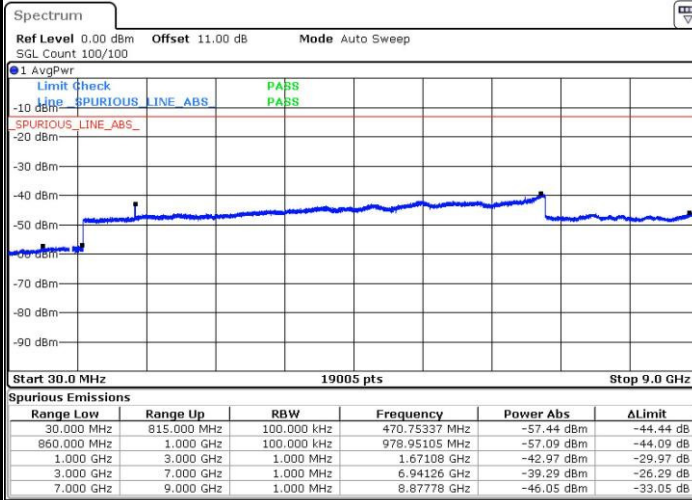




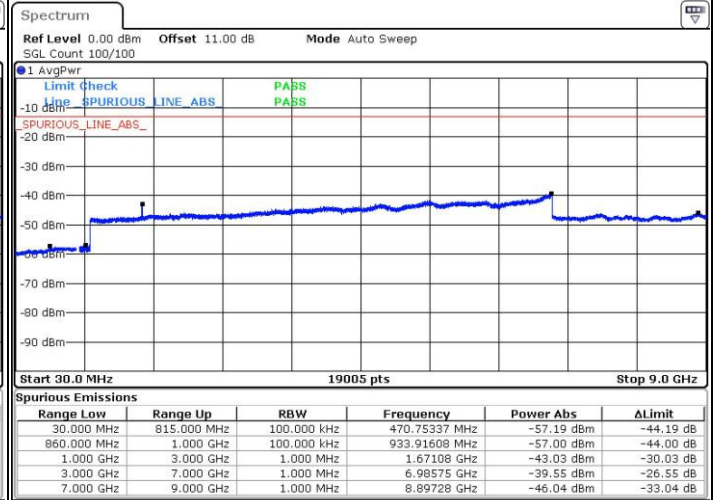
LTE Band 5 / 3MHz

Middle Channel / QPSK



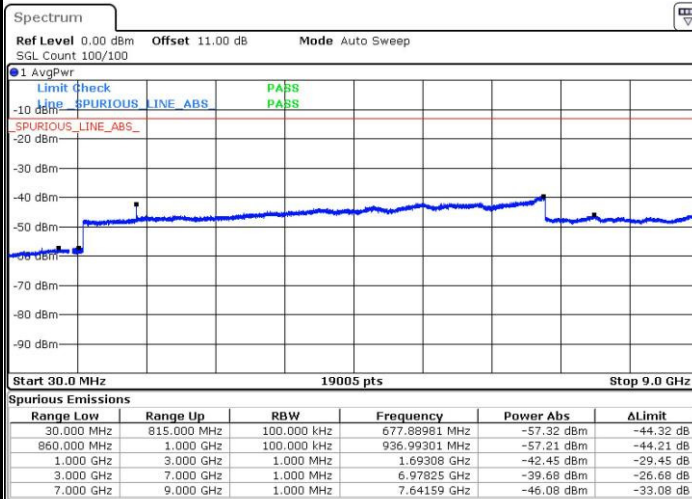
Date: 6.DEC.2016 19:52:03

Middle Channel / 16QAM



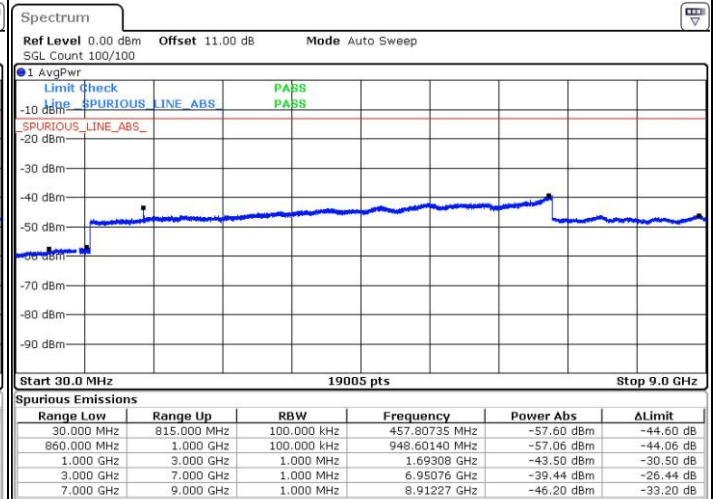
Date: 6.DEC.2016 19:53:01

Highest Channel / QPSK



Date: 6.DEC.2016 20:01:25

Highest Channel / 16QAM

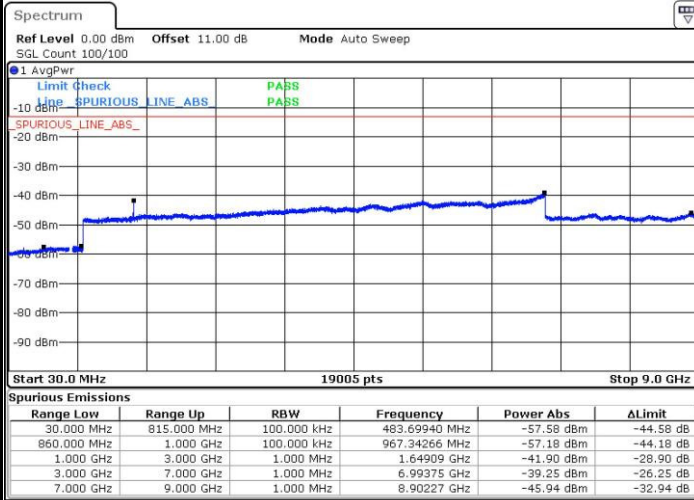


Date: 6.DEC.2016 20:02:23



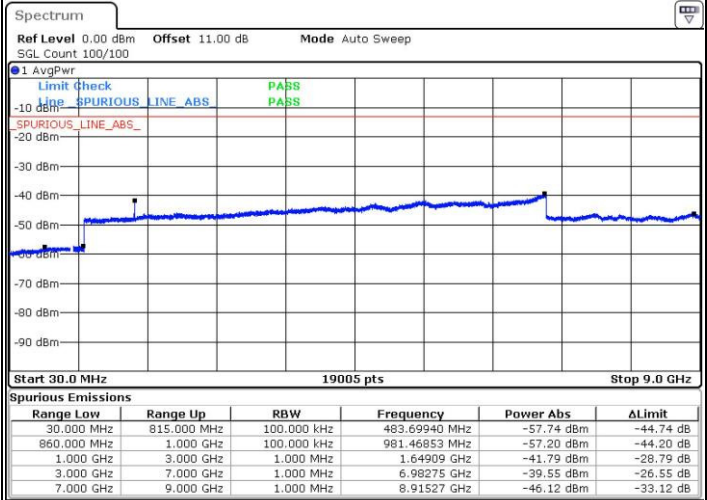
LTE Band 5 / 5MHz

Lowest Channel / QPSK



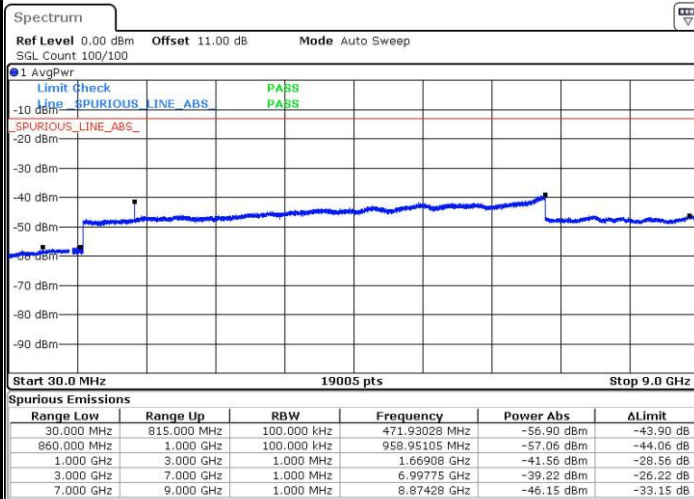
Date: 6.DEC.2016 20:10:46

Lowest Channel / 16QAM



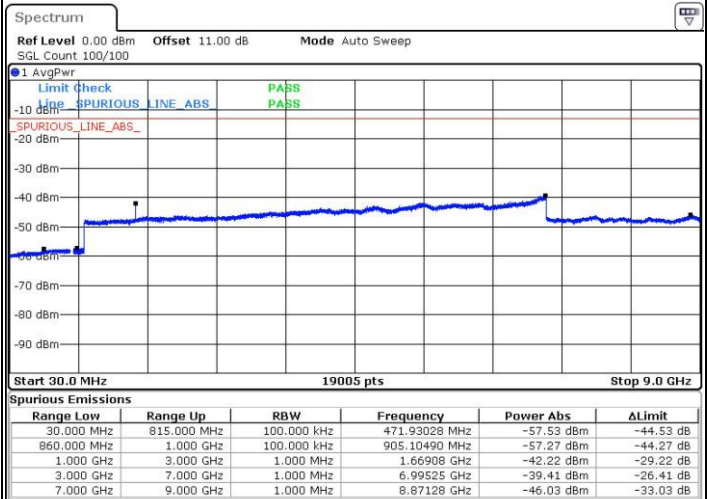
Date: 6.DEC.2016 20:11:44

Middle Channel / QPSK



Date: 6.DEC.2016 20:13:29

Middle Channel / 16QAM

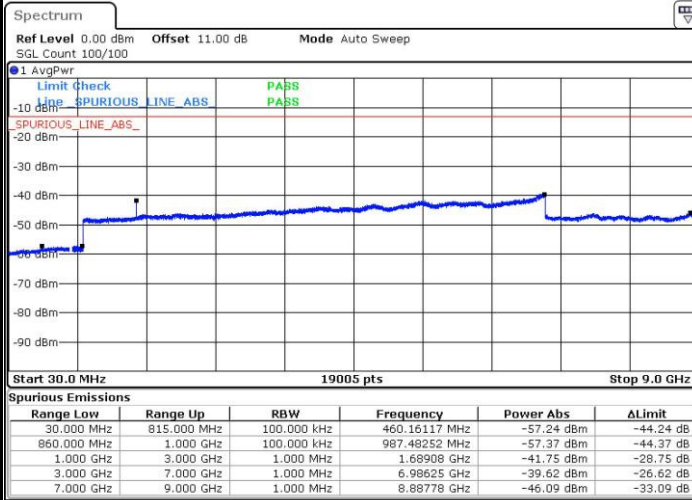


Date: 6.DEC.2016 20:14:27



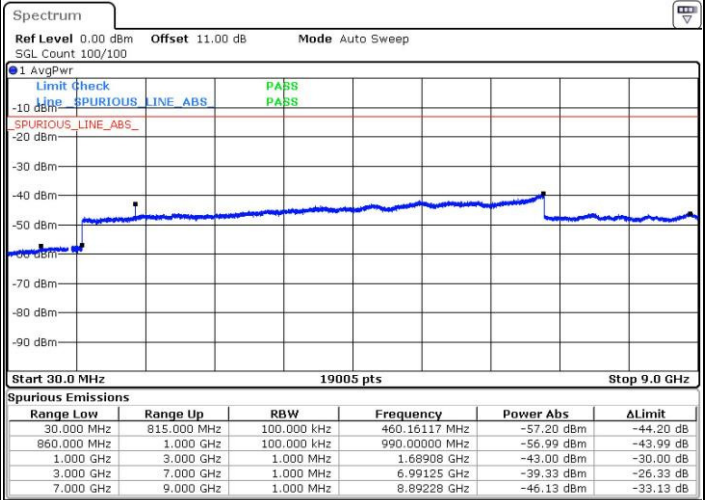
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 6.DEC.2016 20:22:50

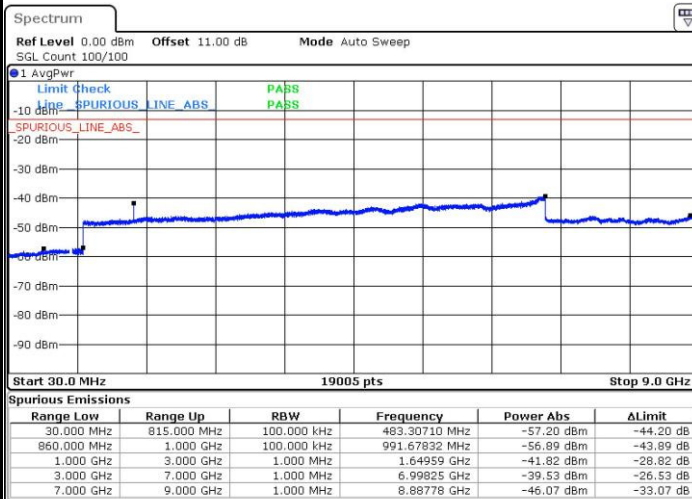
Highest Channel / 16QAM



Date: 6.DEC.2016 20:23:49

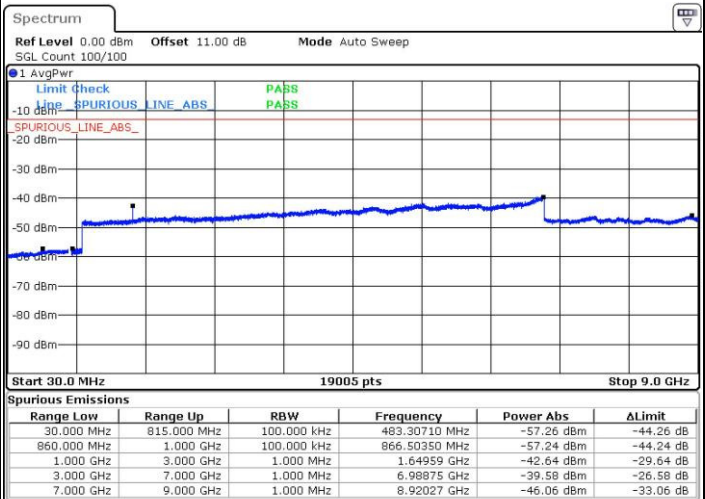
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 6.DEC.2016 20:32:12

Lowest Channel / 16QAM

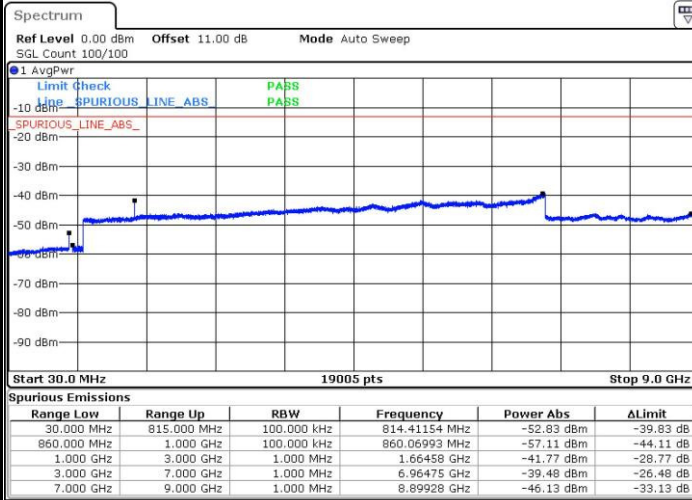


Date: 6.DEC.2016 20:33:10



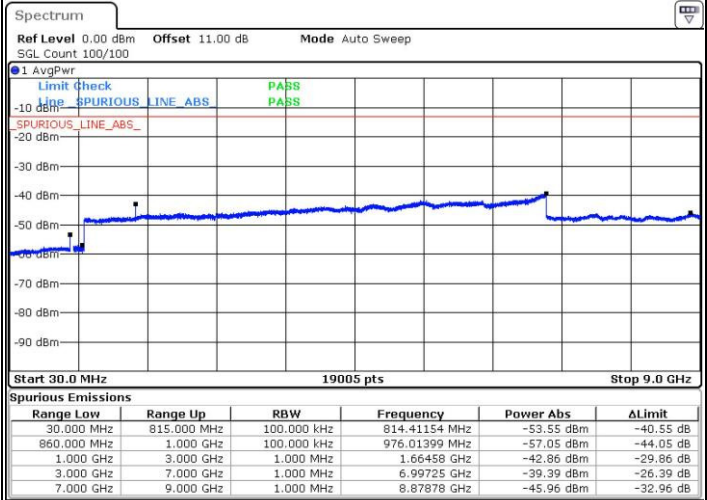
LTE Band 5 / 10MHz

Middle Channel / QPSK



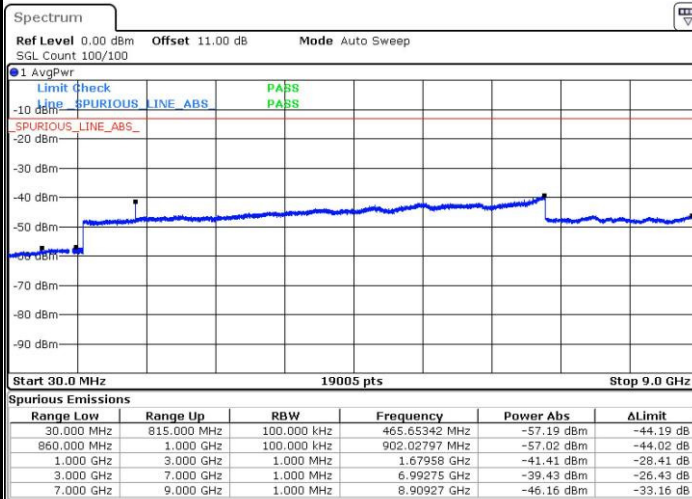
Date: 6.DEC.2016 20:34:55

Middle Channel / 16QAM



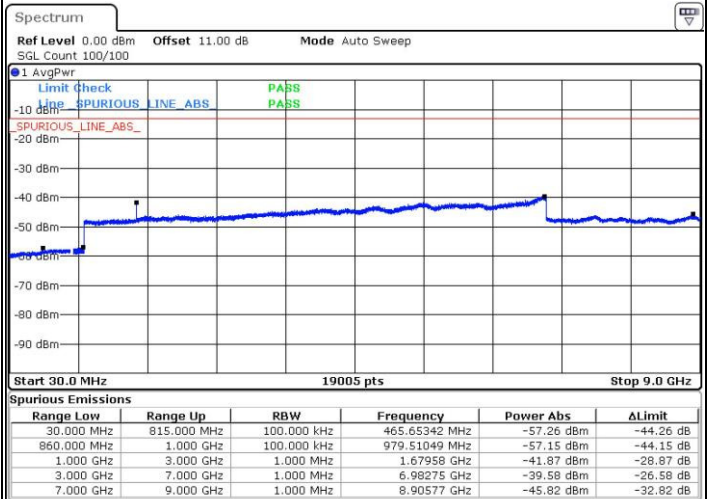
Date: 6.DEC.2016 20:35:53

Highest Channel / QPSK



Date: 6.DEC.2016 20:44:16

Highest Channel / 16QAM



Date: 6.DEC.2016 20:45:15

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	0.0010	PASS
40	Normal Voltage	0.0051	
30	Normal Voltage	0.0093	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0078	
20	Maximum Voltage	0.0030	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

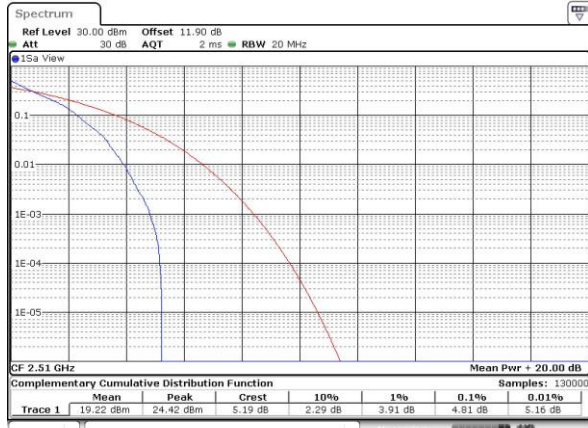
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.81	5.16	5.91	6	PASS
Middle CH	5.1	5.33	5.33	6.06	
Highest CH	5.22	5.48	6.2	6.2	

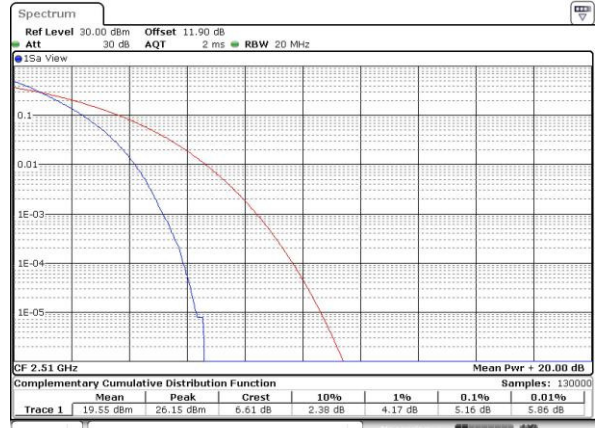


LTE Band 7 / 20MHz / QPSK

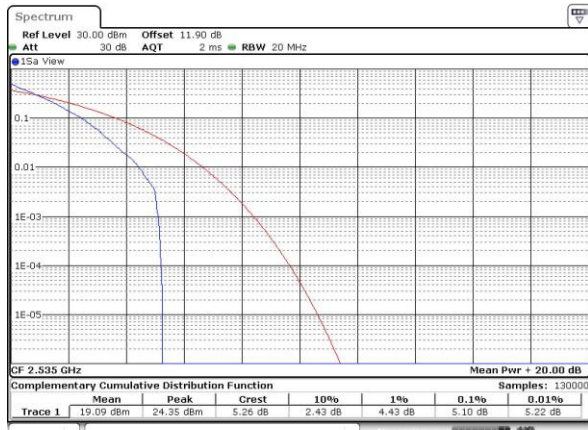
Lowest Channel / 1RB



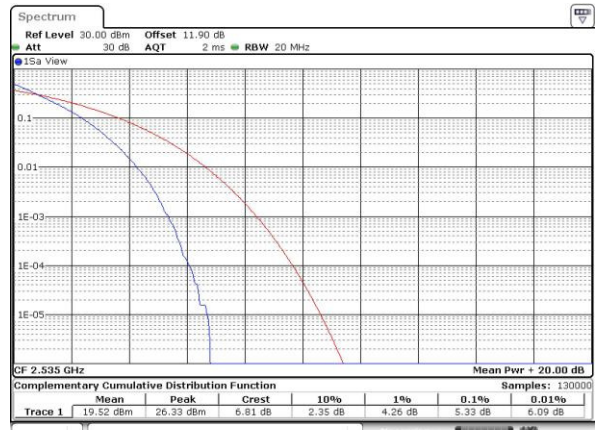
Lowest Channel / Full RB



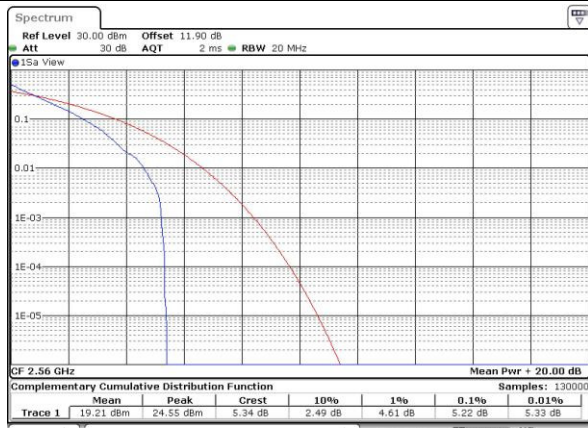
Middle Channel / 1RB



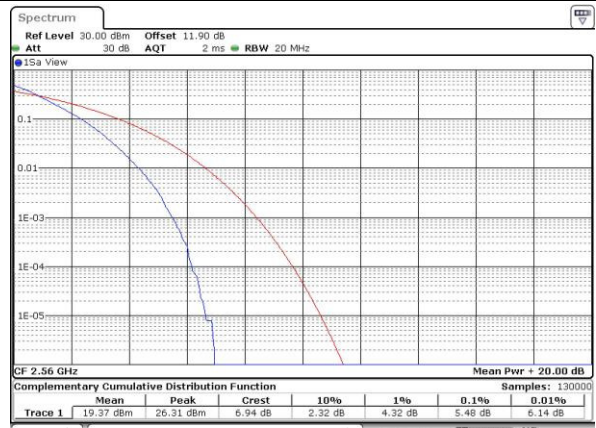
Middle Channel / Full RB

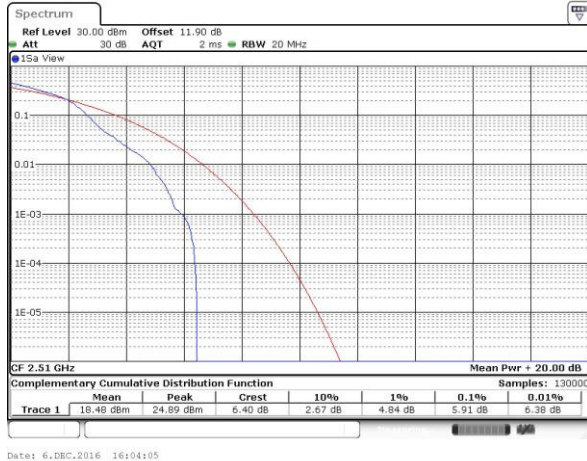


Highest Channel / 1RB

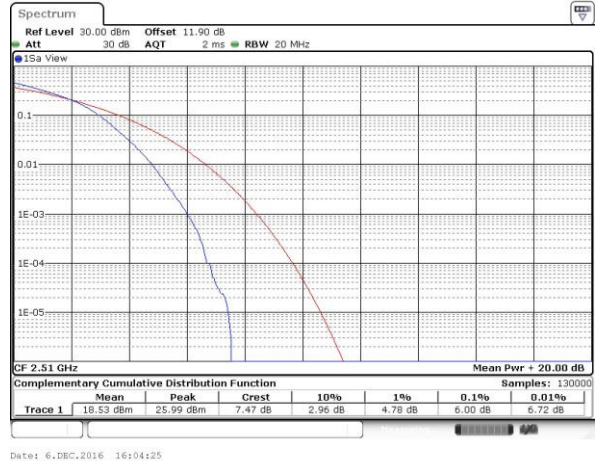


Highest Channel / Full RB

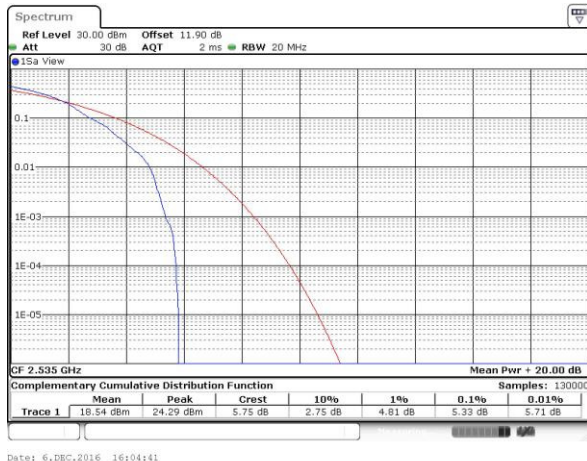


LTE Band 7 / 20MHz / 16QAM
Lowest Channel / 1RB


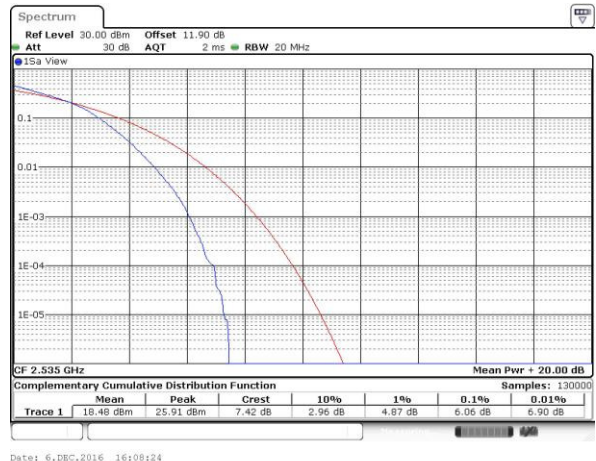
Date: 6,DEC,2016 16:04:05

Lowest Channel / Full RB


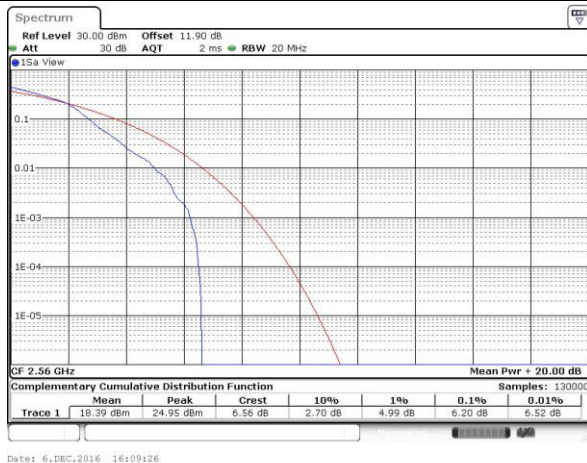
Date: 6,DEC,2016 16:04:25

Middle Channel / 1RB


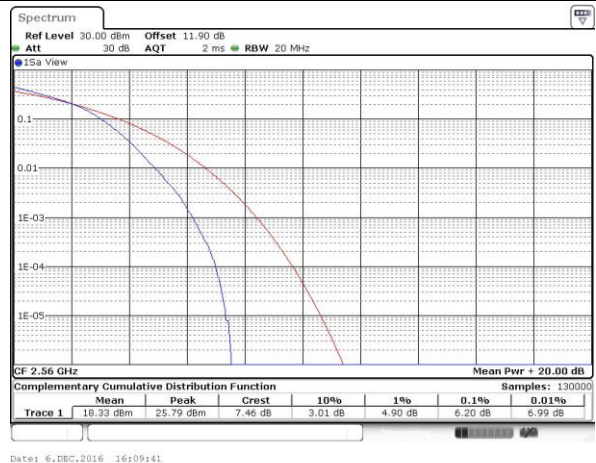
Date: 6,DEC,2016 16:04:41

Middle Channel / Full RB


Date: 6,DEC,2016 16:08:24

Highest Channel / 1RB


Date: 6,DEC,2016 16:09:26

Highest Channel / Full RB


Date: 6,DEC,2016 16:09:41

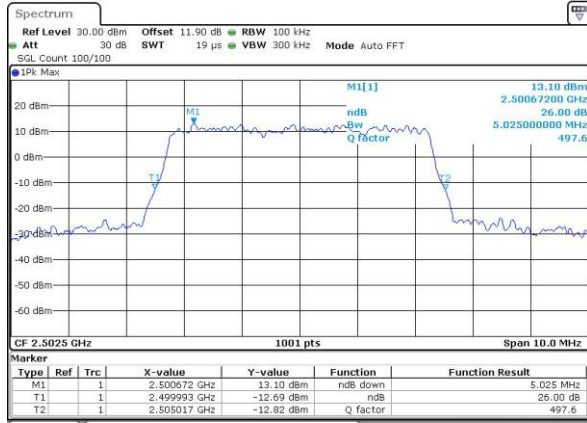
**26dB Bandwidth**

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	-	-	-	-	5.025	4.925	9.91	9.85	14.505	14.296	20.34	20.22
Middle CH	-	-	-	-	4.915	4.955	9.81	9.95	14.625	14.206	20.26	20.42
Highest CH	-	-	-	-	4.965	4.965	9.87	9.87	14.775	14.865	20.22	20.14



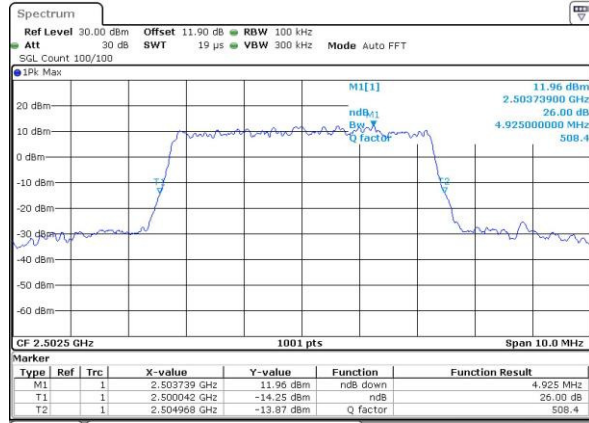
LTE Band 7

Lowest Channel / 5MHz / QPSK



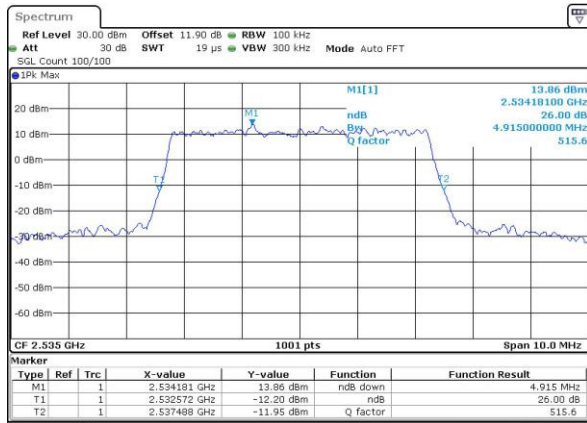
Date: 6,DEC,2016 13:56:31

Lowest Channel / 5MHz / 16QAM



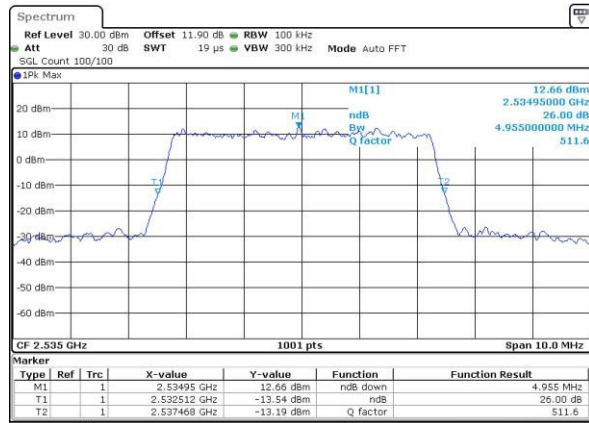
Date: 6,DEC,2016 15:26:45

Middle Channel / 5MHz / QPSK



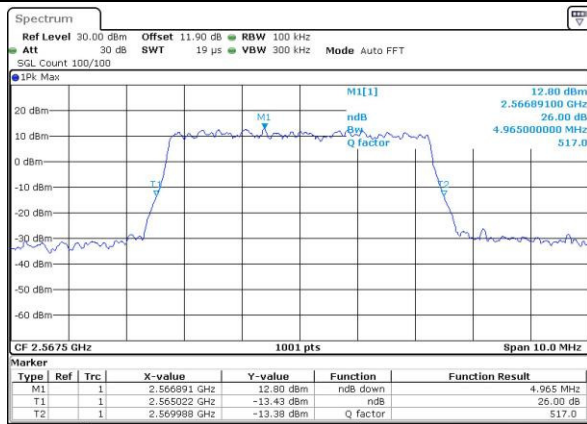
Date: 6,DEC,2016 14:03:53

Middle Channel / 5MHz / 16QAM



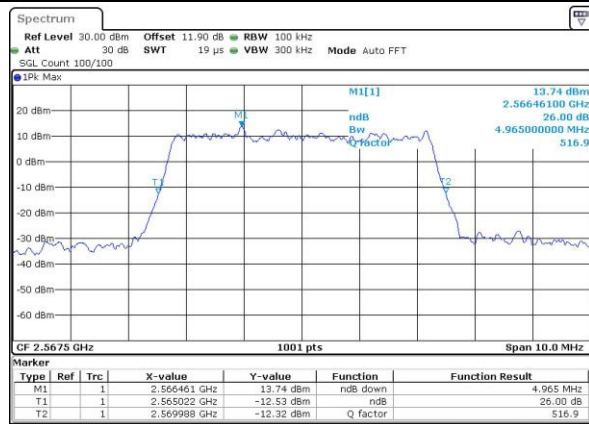
Date: 6,DEC,2016 14:04:05

Highest Channel / 5MHz / QPSK



Date: 6,DEC,2016 14:06:36

Highest Channel / 5MHz / 16QAM

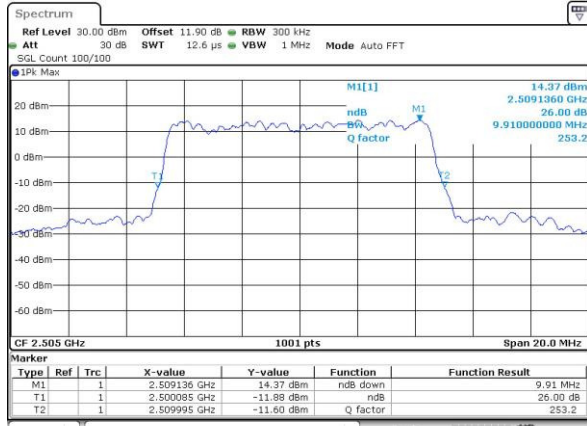


Date: 6,DEC,2016 14:06:48

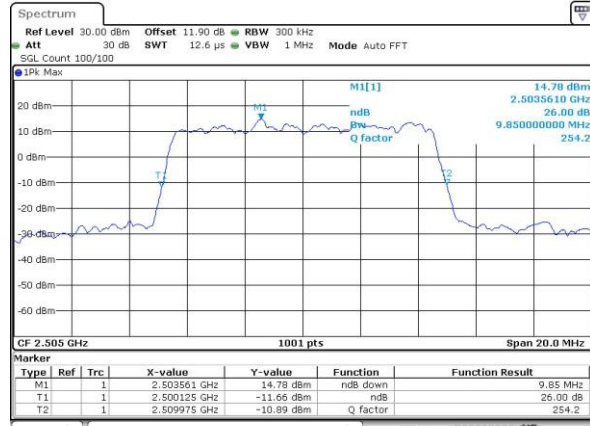


LTE Band 7

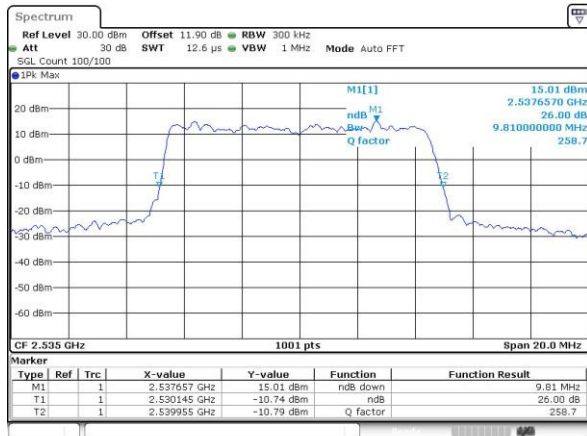
Lowest Channel / 10MHz / QPSK



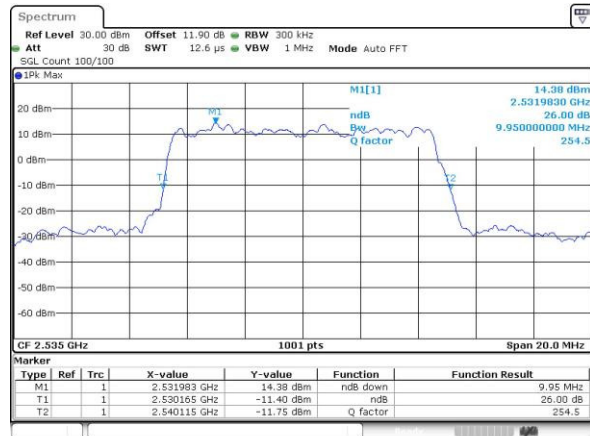
Lowest Channel / 10MHz / 16QAM



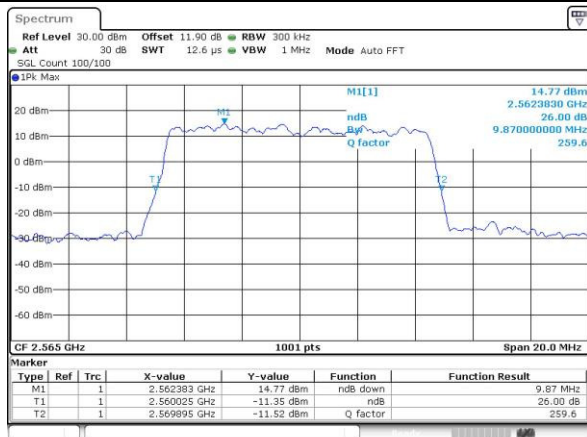
Middle Channel / 10MHz / QPSK



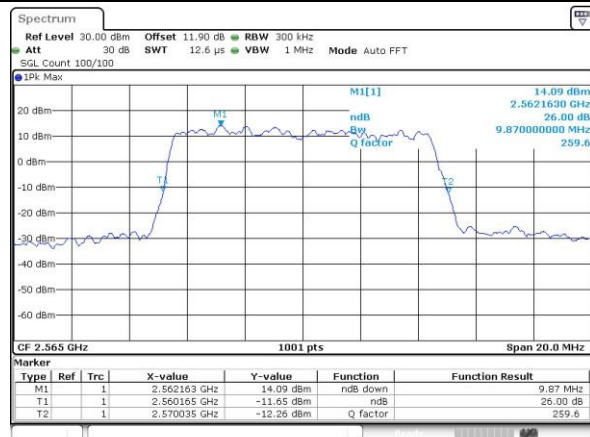
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



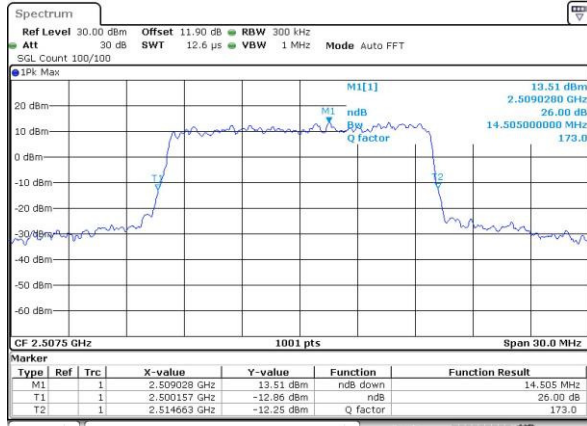
Highest Channel / 10MHz / 16QAM





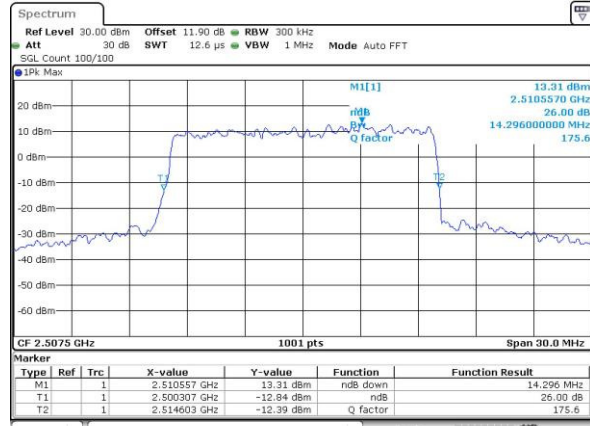
LTE Band 7

Lowest Channel / 15MHz / QPSK



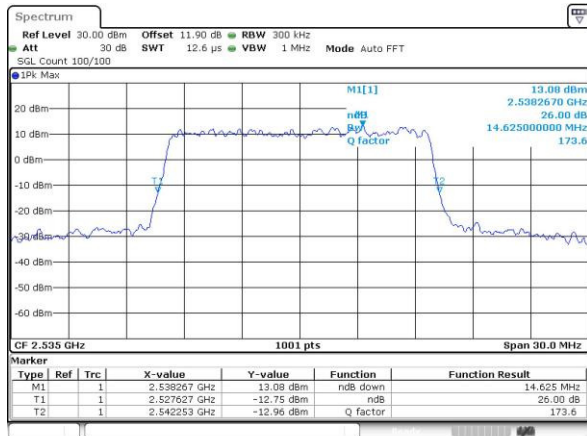
Date: 6,DEC,2016 14:31:26

Lowest Channel / 15MHz / 16QAM



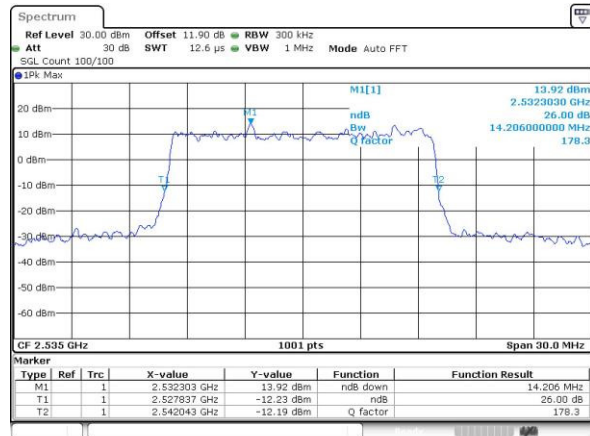
Date: 6,DEC,2016 14:31:38

Middle Channel / 15MHz / QPSK



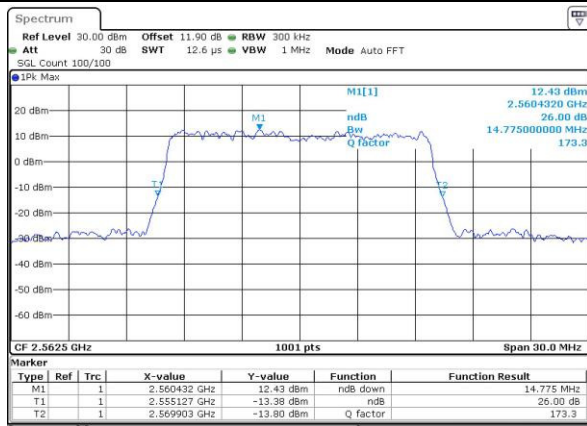
Date: 6,DEC,2016 14:38:48

Middle Channel / 15MHz / 16QAM



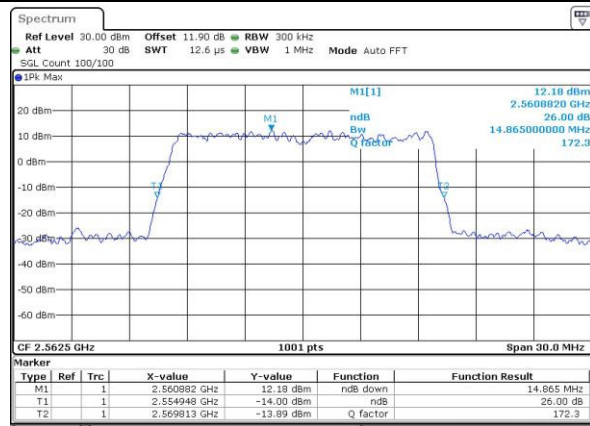
Date: 6,DEC,2016 14:39:00

Highest Channel / 15MHz / QPSK



Date: 6,DEC,2016 15:32:35

Highest Channel / 15MHz / 16QAM

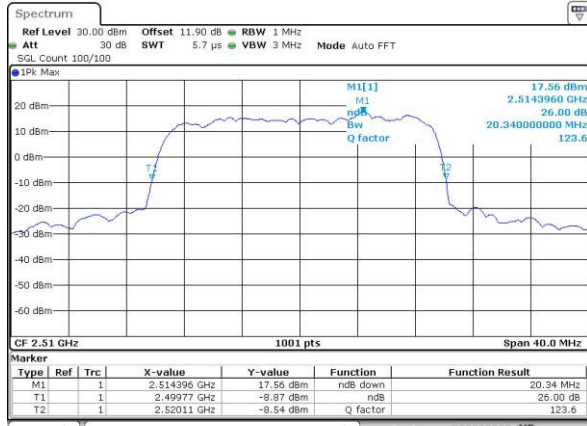


Date: 6,DEC,2016 15:32:47

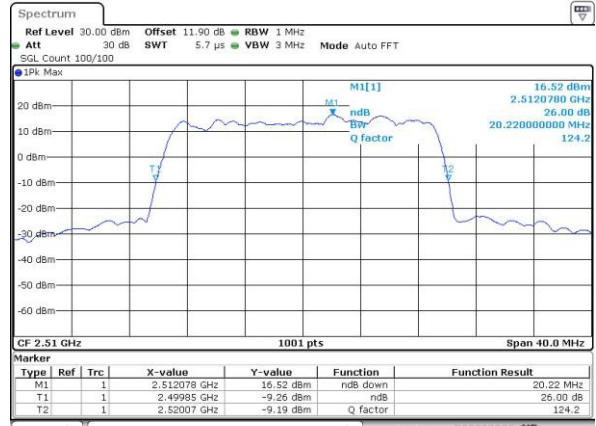


LTE Band 7

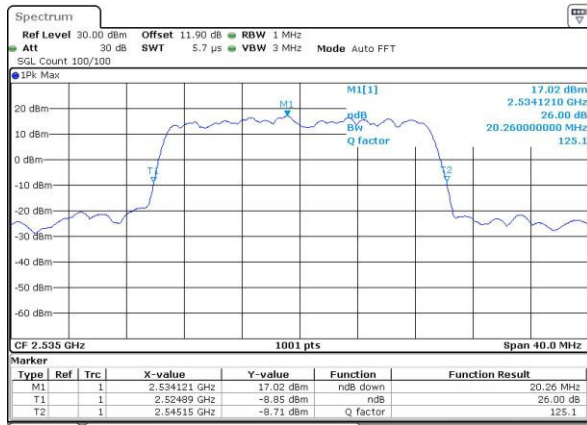
Lowest Channel / 20MHz / QPSK



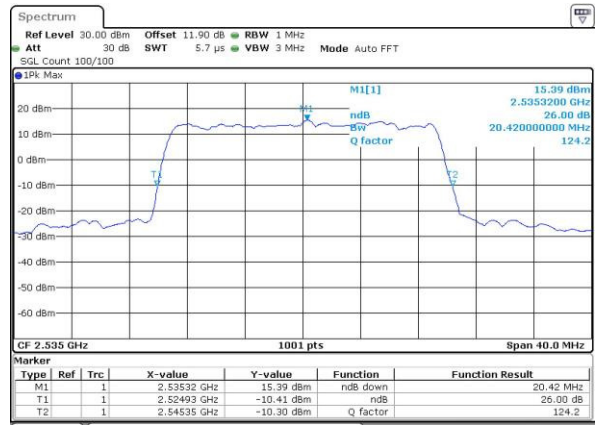
Lowest Channel / 20MHz / 16QAM



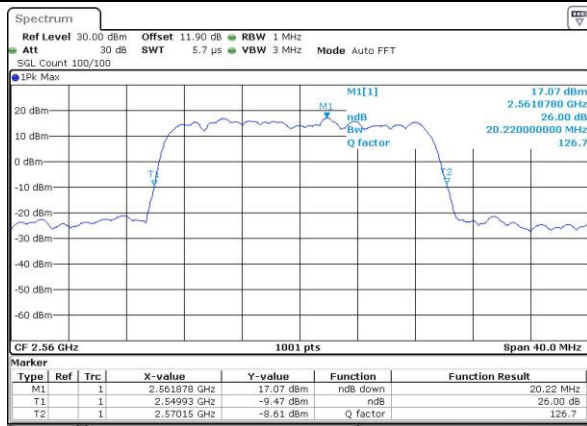
Middle Channel / 20MHz / QPSK



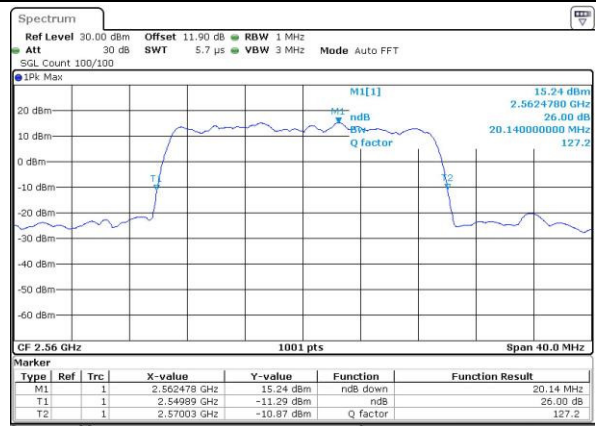
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



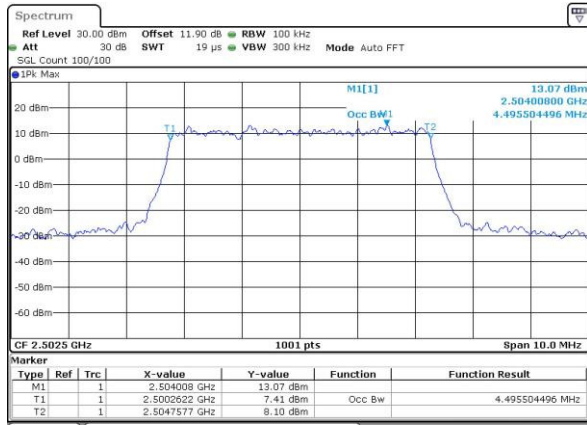
**Occupied Bandwidth**

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	-	-	-	-	4.5	4.51	9.03	9.07	13.49	13.49	18.42	18.34
Middle CH	-	-	-	-	4.51	4.53	9.09	9.01	13.43	13.46	18.42	18.5
Highest CH	-	-	-	-	4.5	4.51	9.05	9.07	13.49	13.4	18.3	18.38



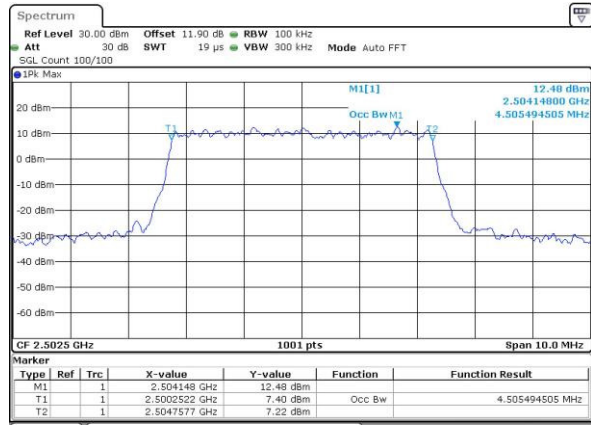
LTE Band 7

Lowest Channel / 5MHz / QPSK



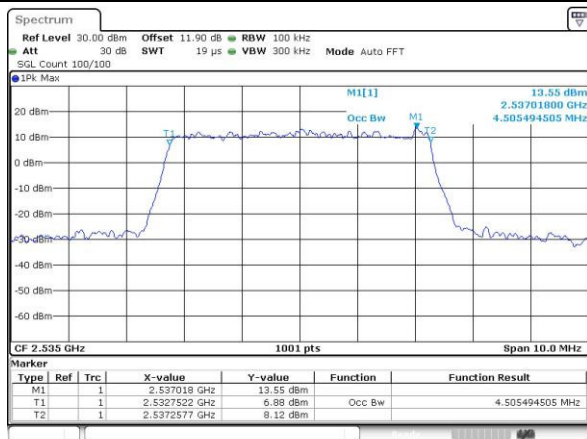
Date: 6,DEC,2016 13:56:08

Lowest Channel / 5MHz / 16QAM



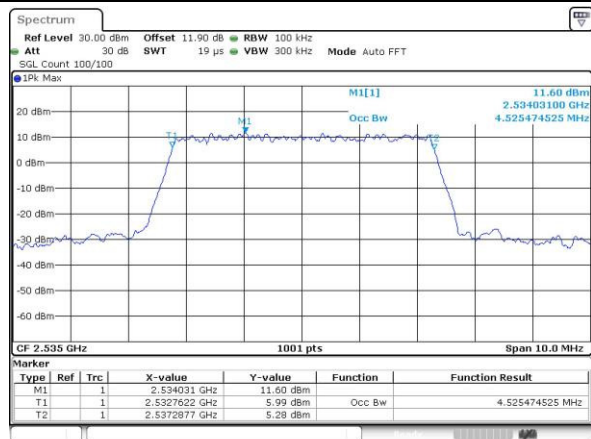
Date: 6,DEC,2016 13:56:20

Middle Channel / 5MHz / QPSK



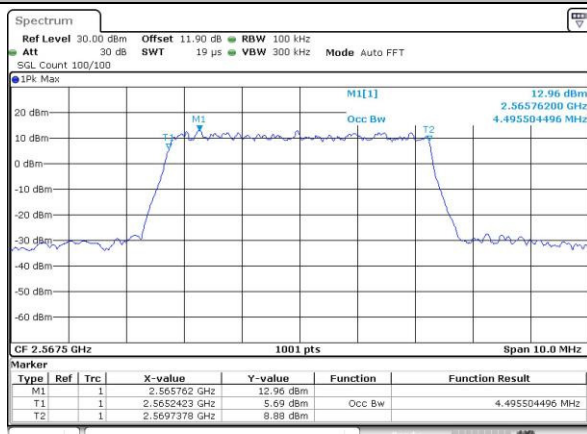
Date: 6,DEC,2016 14:03:30

Middle Channel / 5MHz / 16QAM



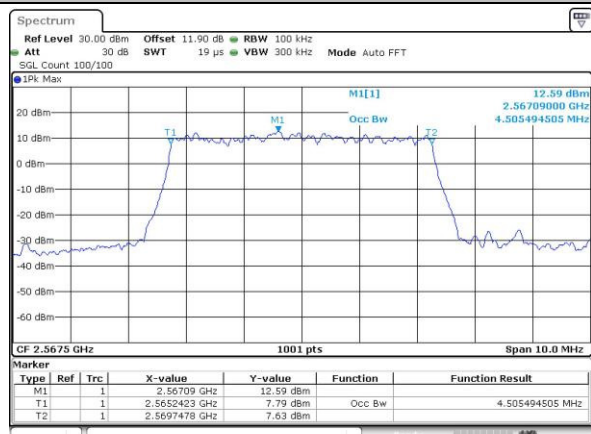
Date: 6,DEC,2016 14:03:41

Highest Channel / 5MHz / QPSK



Date: 6,DEC,2016 14:06:13

Highest Channel / 5MHz / 16QAM

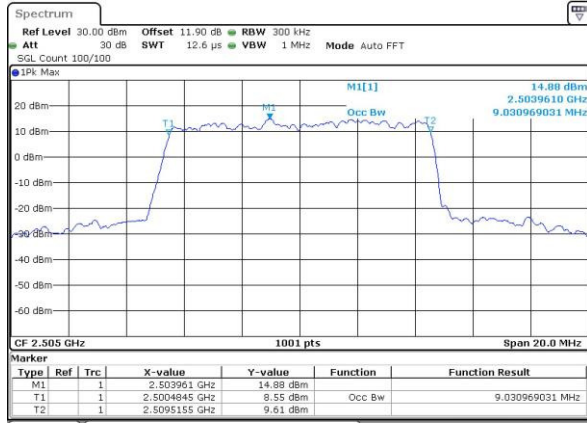


Date: 6,DEC,2016 14:06:24

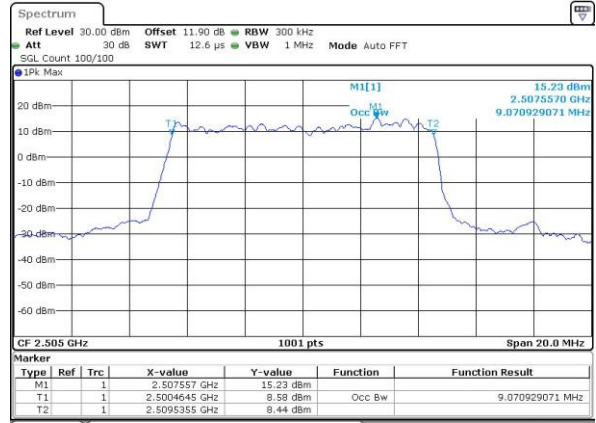


LTE Band 7

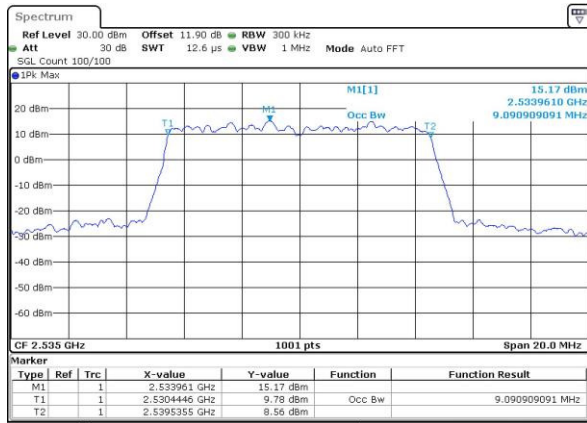
Lowest Channel / 10MHz / QPSK



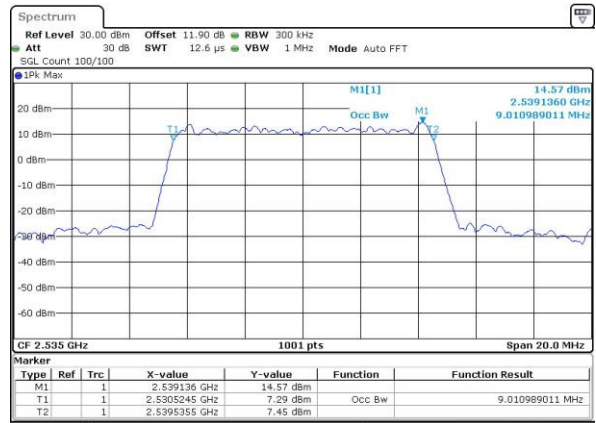
Lowest Channel / 10MHz / 16QAM



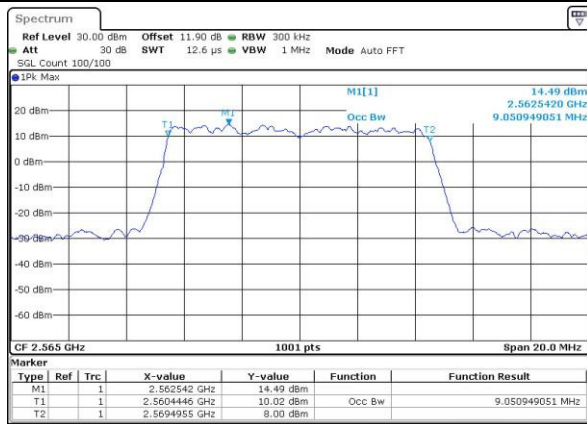
Middle Channel / 10MHz / QPSK



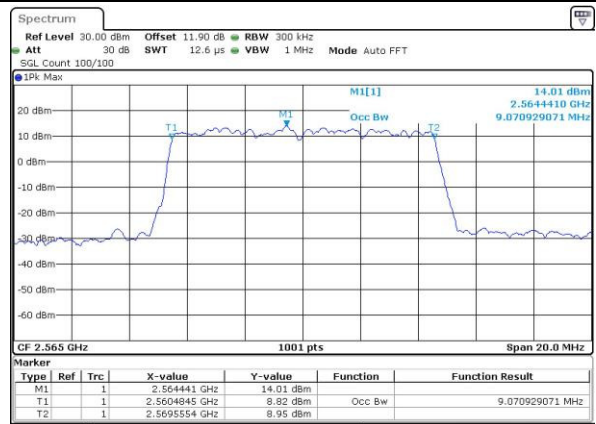
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



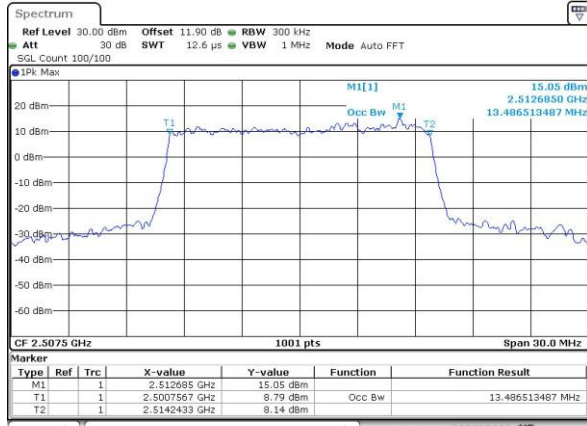
Highest Channel / 10MHz / 16QAM





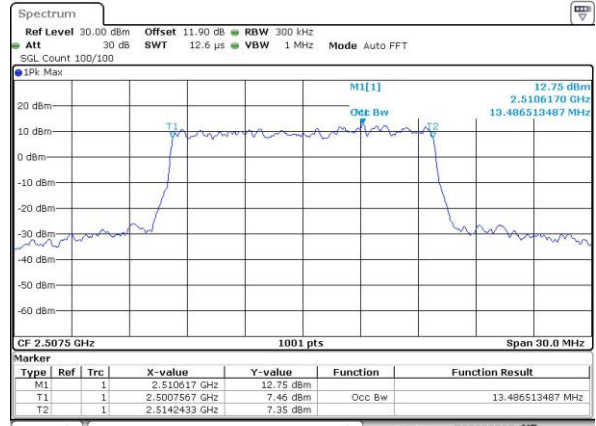
LTE Band 7

Lowest Channel / 15MHz / QPSK



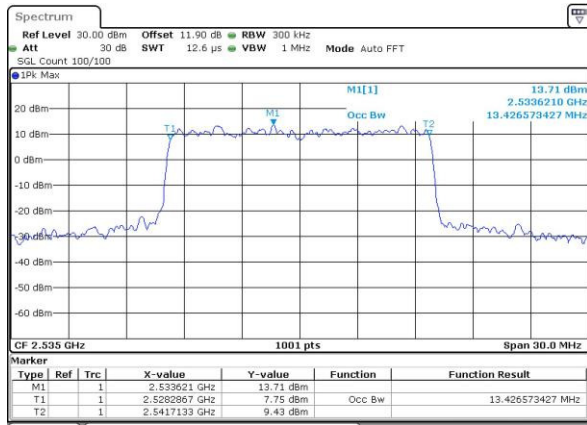
Date: 6,DEC,2016 14:31:03

Lowest Channel / 15MHz / 16QAM



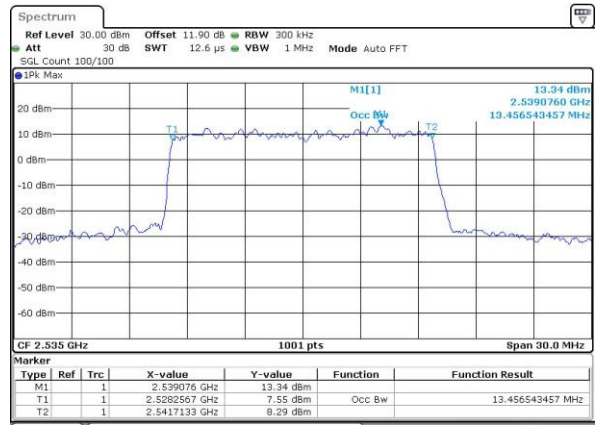
Date: 6,DEC,2016 15:29:19

Middle Channel / 15MHz / QPSK



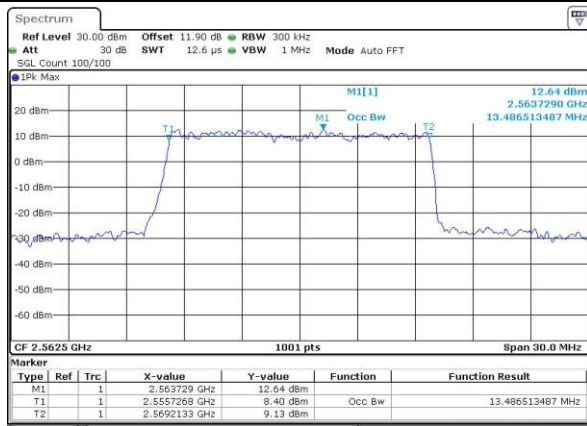
Date: 6,DEC,2016 14:38:24

Middle Channel / 15MHz / 16QAM



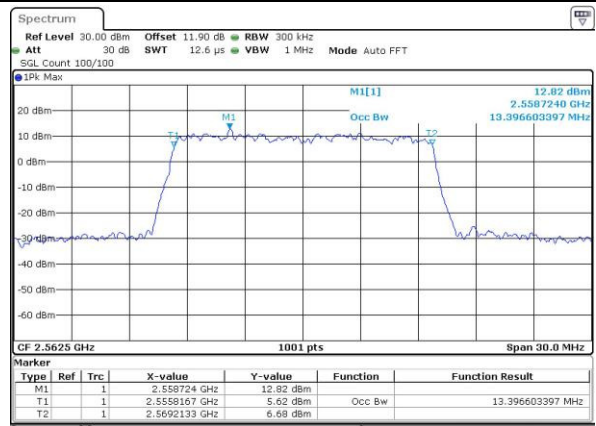
Date: 6,DEC,2016 14:38:36

Highest Channel / 15MHz / QPSK



Date: 6,DEC,2016 15:32:11

Highest Channel / 15MHz / 16QAM

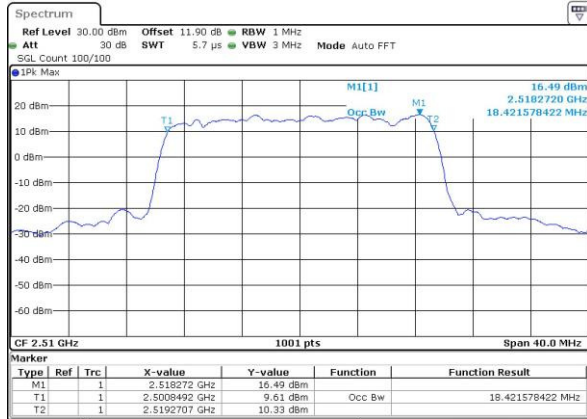


Date: 6,DEC,2016 15:32:23

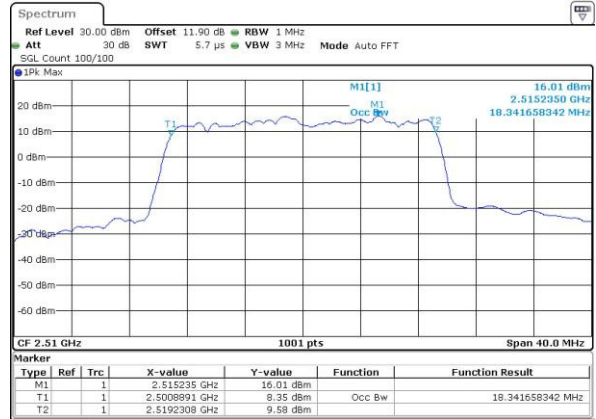


LTE Band 7

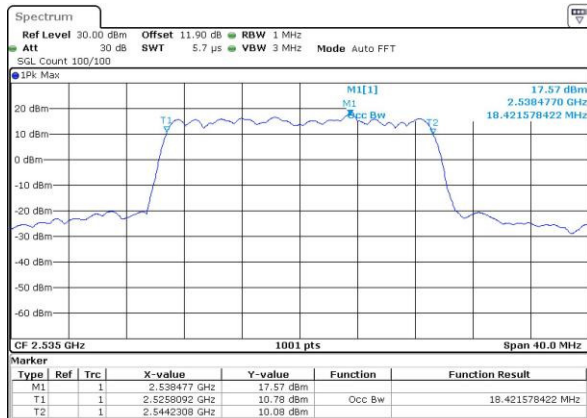
Lowest Channel / 20MHz / QPSK



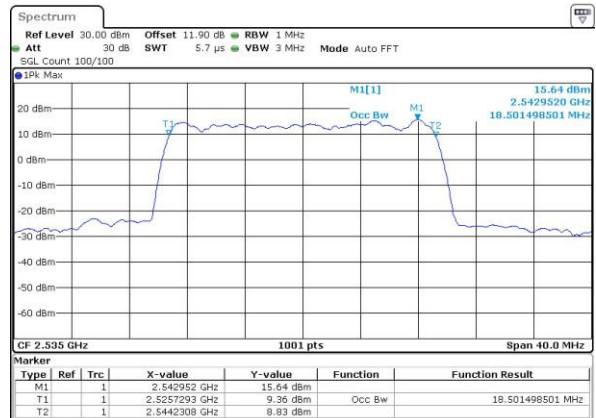
Lowest Channel / 20MHz / 16QAM



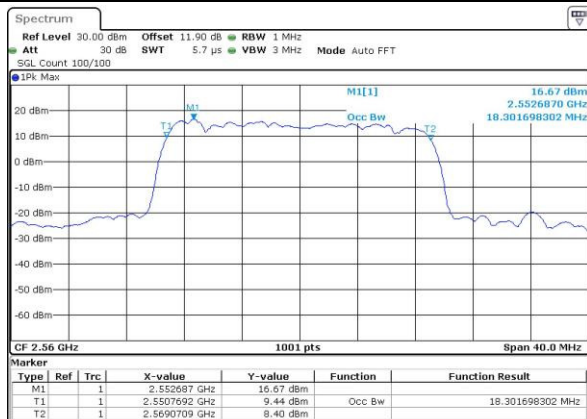
Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

