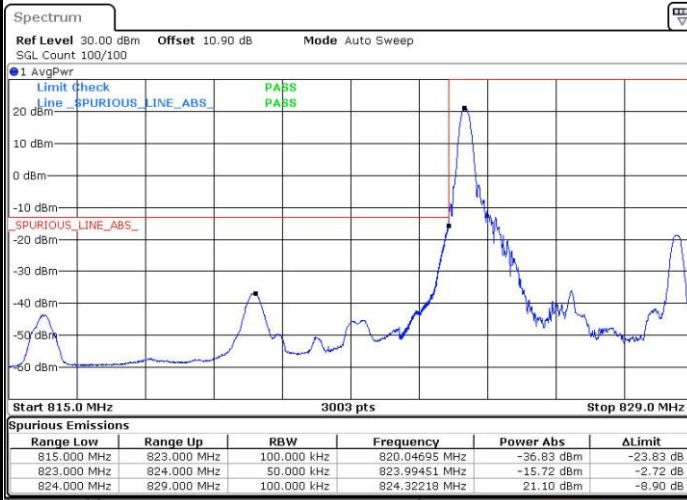




LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



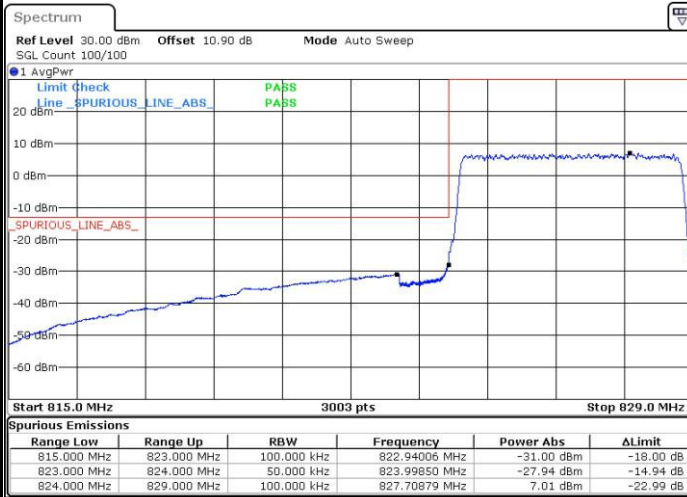
Date: 15.DEC.2016 19:43:07

Highest Band Edge / 1 RB



Date: 15.DEC.2016 20:14:37

Lowest Band Edge / Full RB



Date: 15.DEC.2016 19:46:25

Highest Band Edge / Full RB

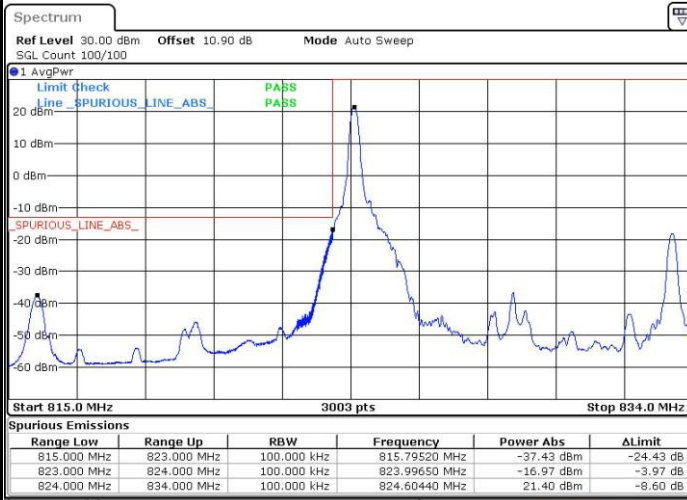


Date: 15.DEC.2016 20:17:55



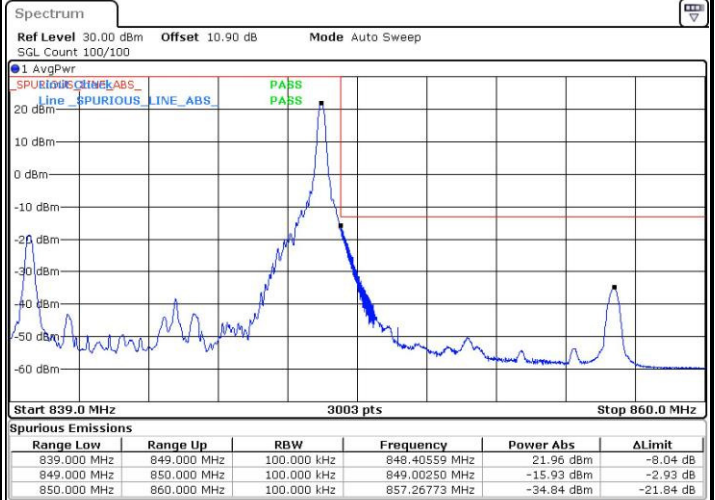
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



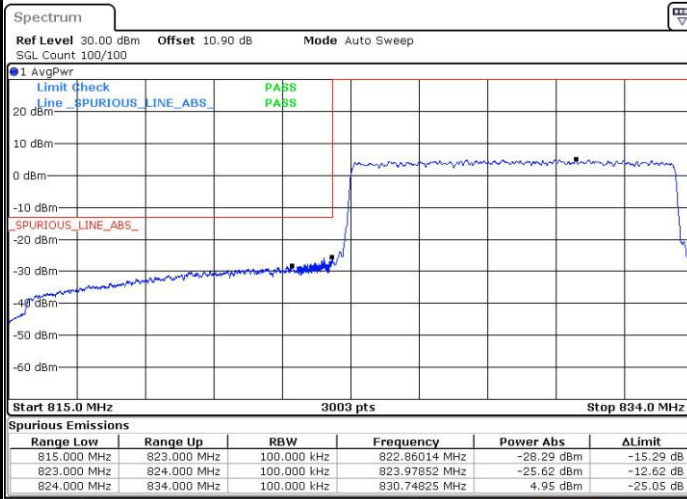
Date: 15 DEC 2016 20:22:04

Highest Band Edge / 1 RB



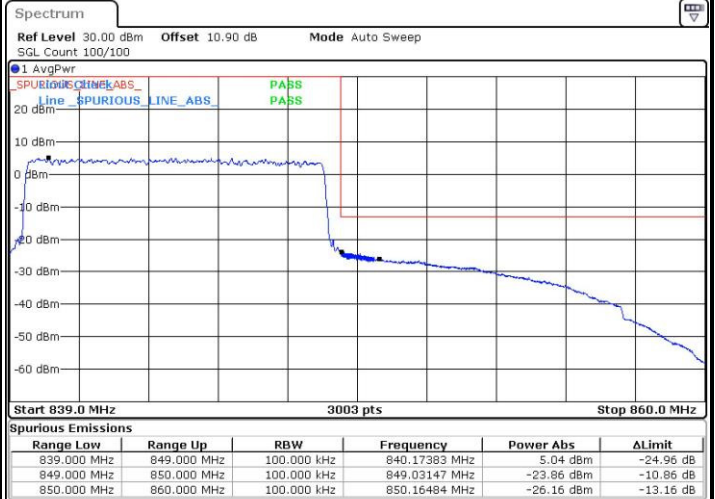
Date: 15 DEC 2016 20:33:40

Lowest Band Edge / Full RB



Date: 15 DEC 2016 20:25:22

Highest Band Edge / Full RB

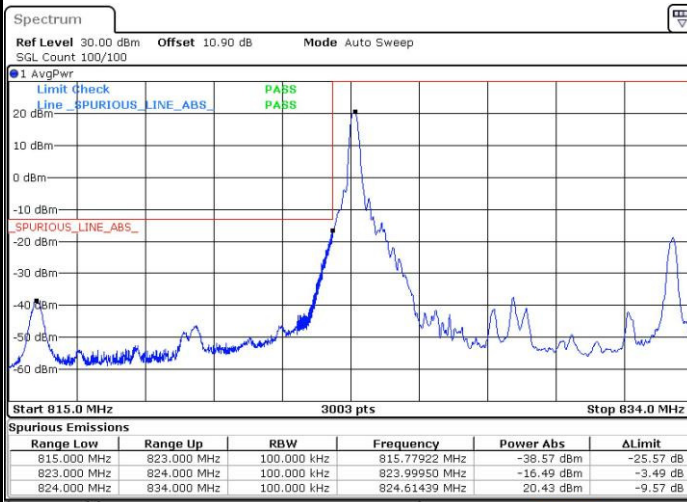


Date: 15 DEC 2016 20:36:59



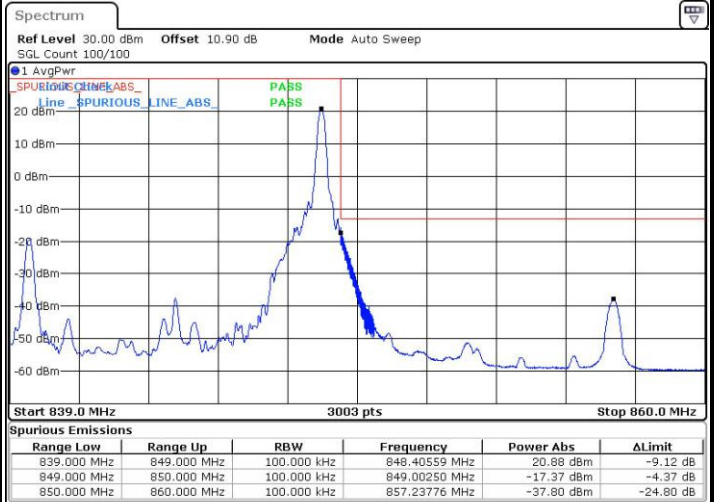
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



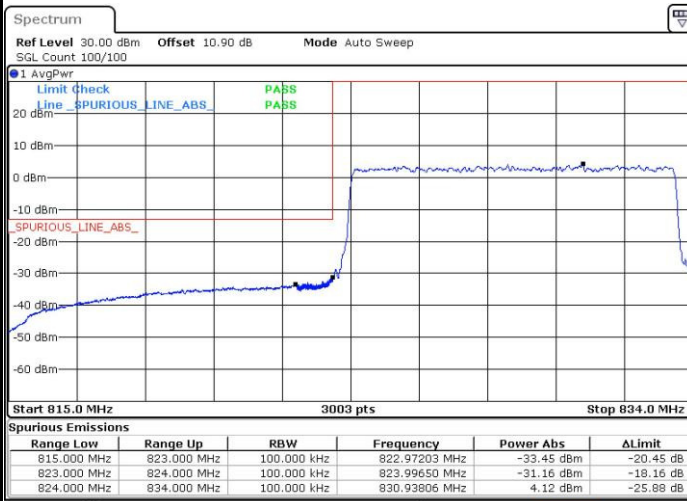
Date: 15 DEC 2016 20:23:43

Highest Band Edge / 1 RB



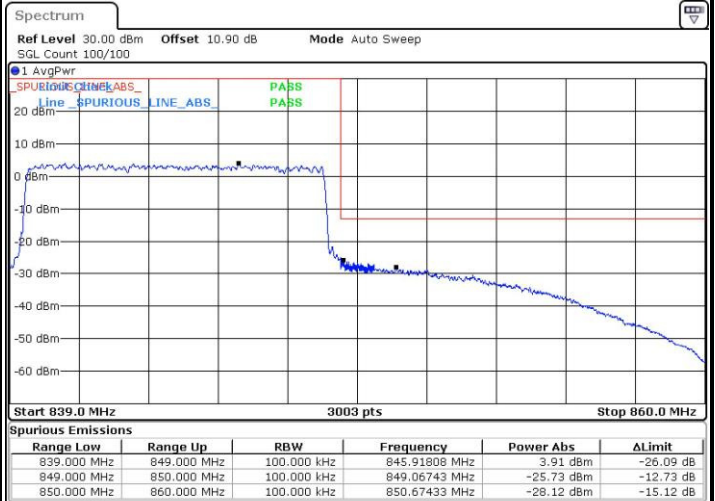
Date: 15 DEC 2016 20:35:19

Lowest Band Edge / Full RB



Date: 15 DEC 2016 20:27:01

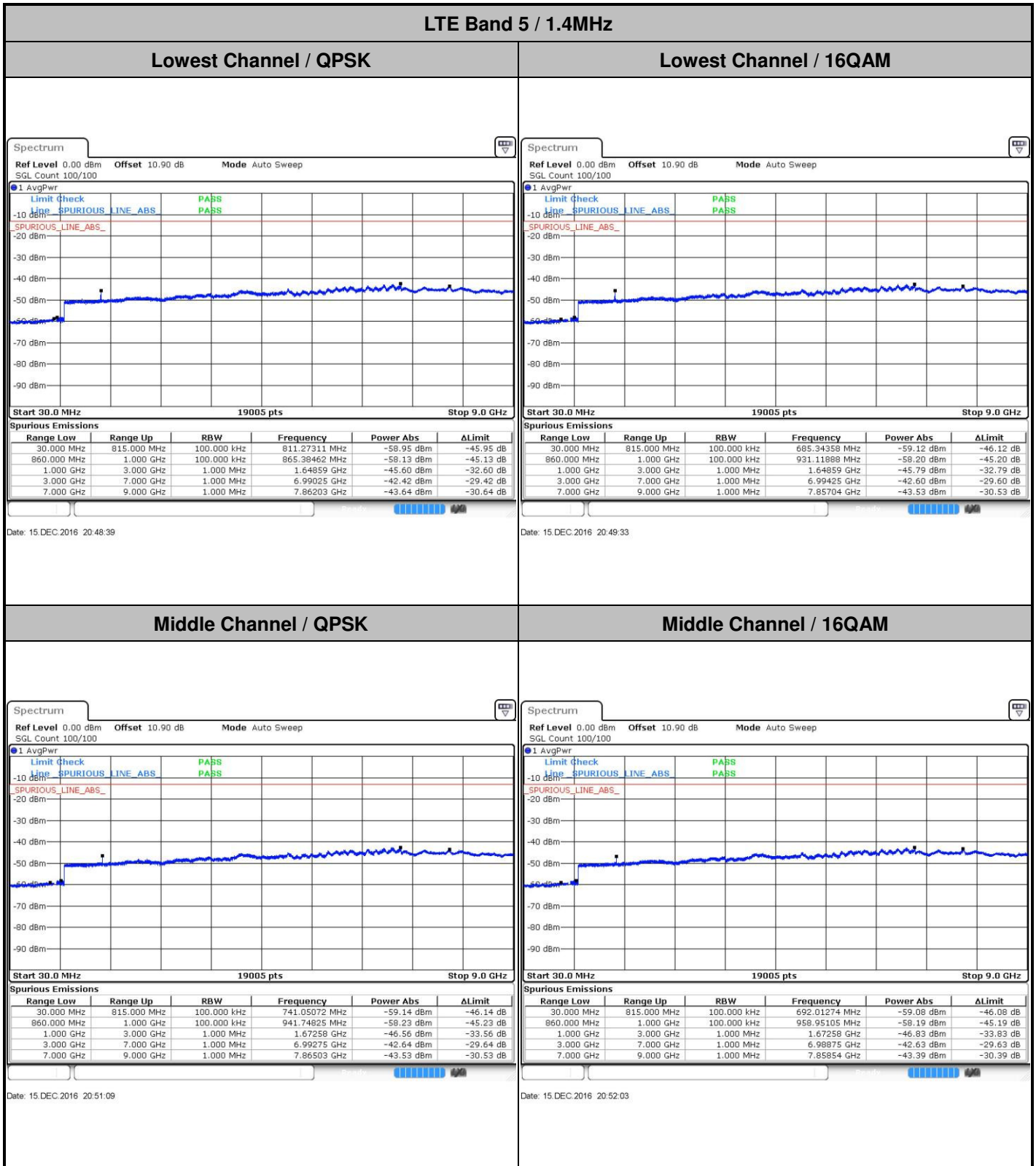
Highest Band Edge / Full RB



Date: 15 DEC 2016 20:38:38



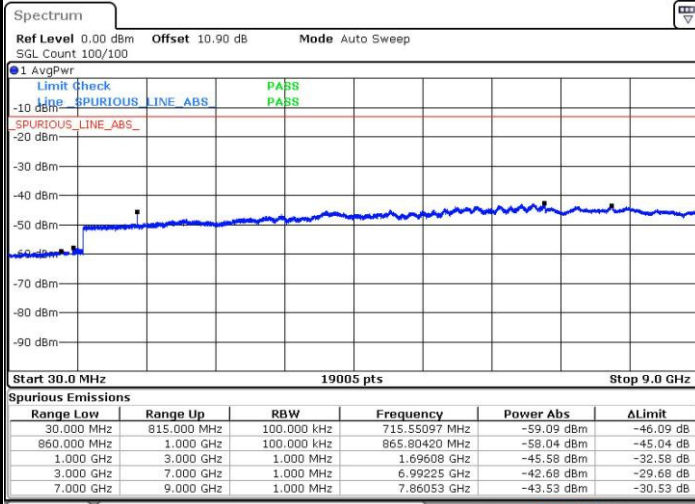
Conducted Spurious Emission





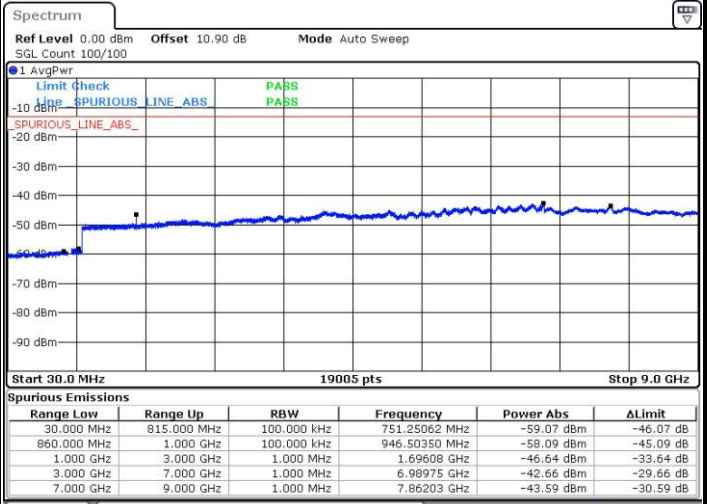
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 15.DEC.2016 21:00:15

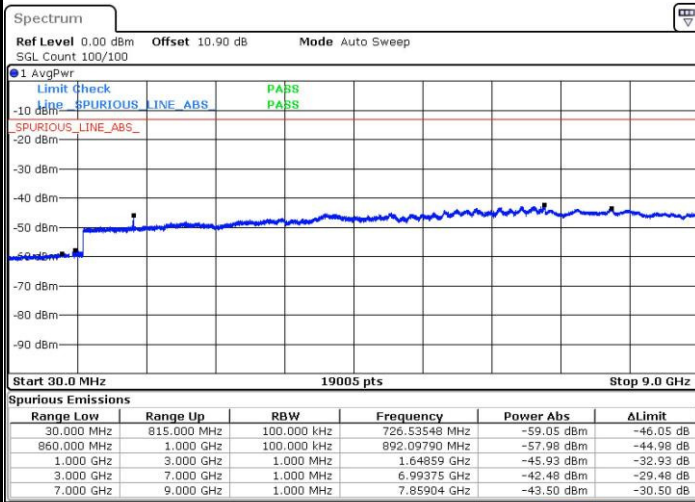
Highest Channel / 16QAM



Date: 15.DEC.2016 21:01:09

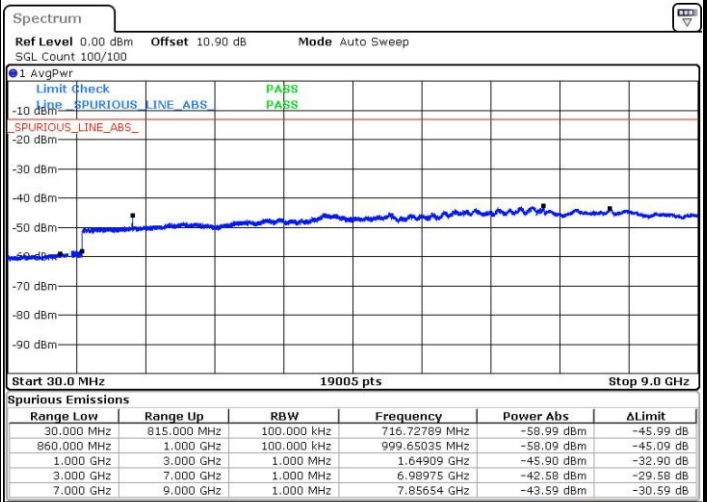
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 15.DEC.2016 19:26:37

Lowest Channel / 16QAM



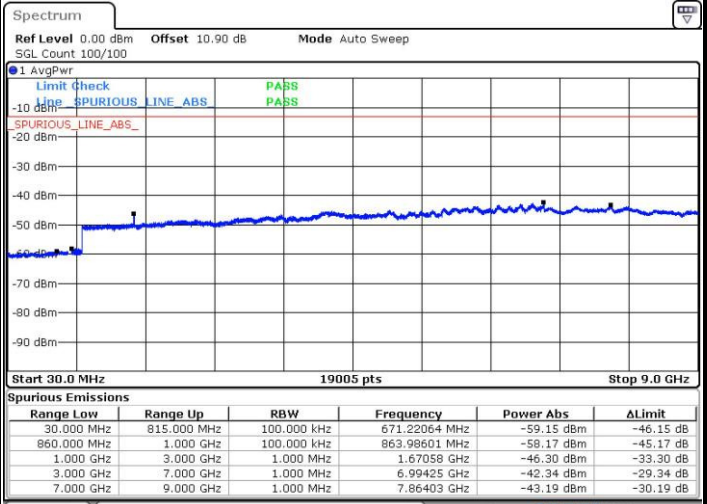
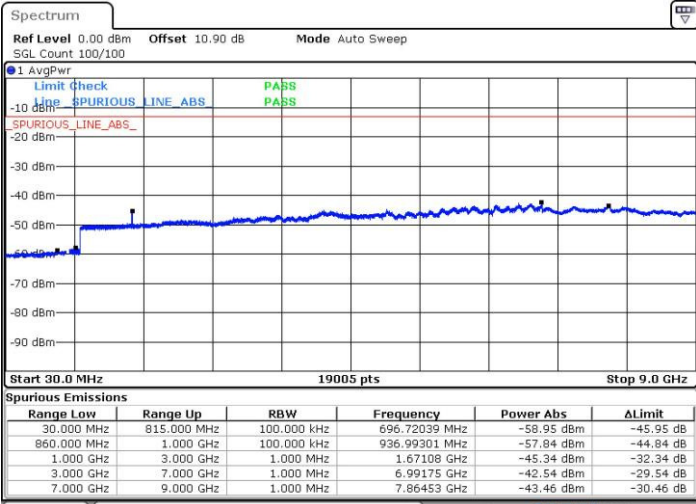
Date: 15.DEC.2016 19:27:32



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

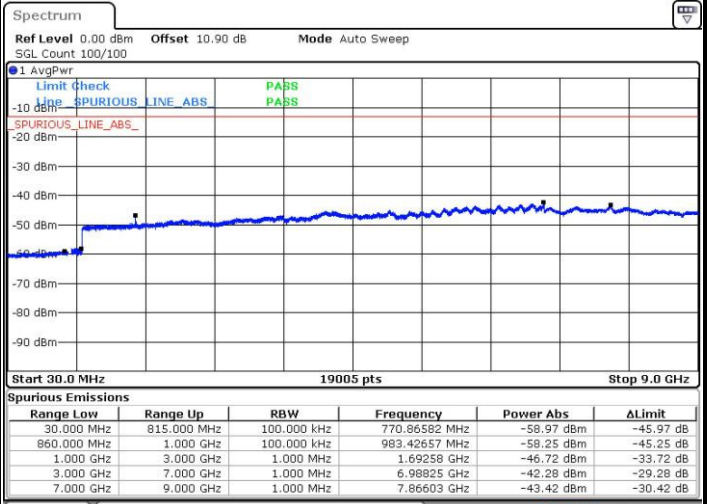
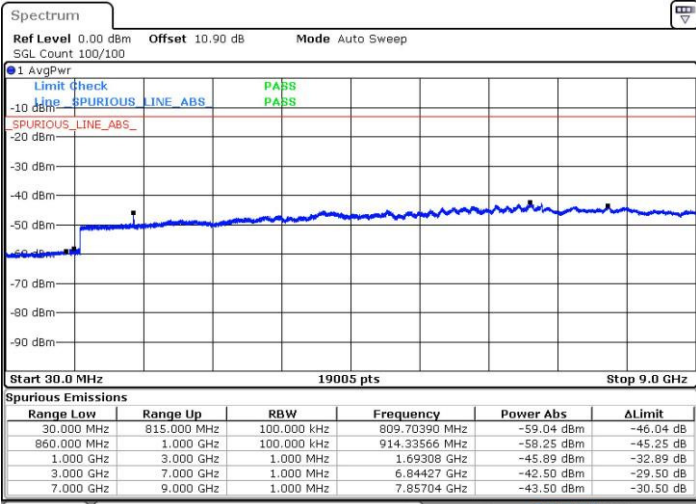


Date: 15.DEC.2016 19:29:07

Date: 15.DEC.2016 19:30:01

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15.DEC.2016 19:38:13

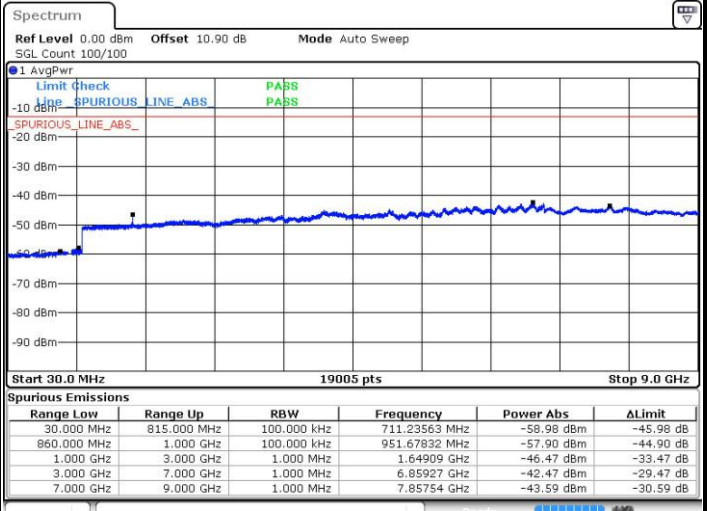
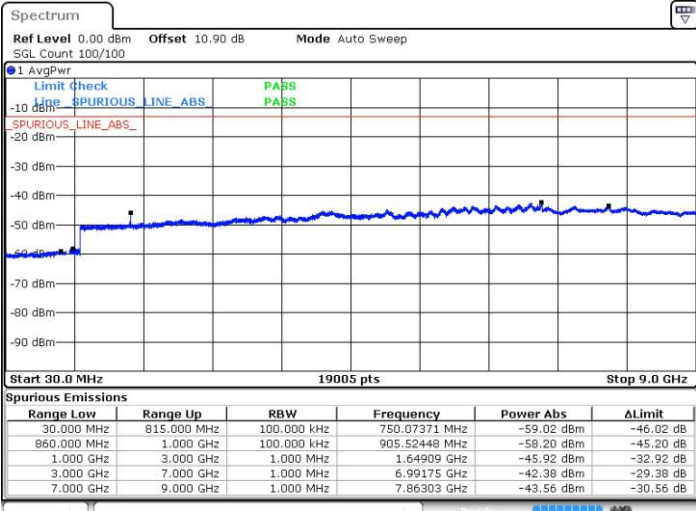
Date: 15.DEC.2016 19:39:08



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

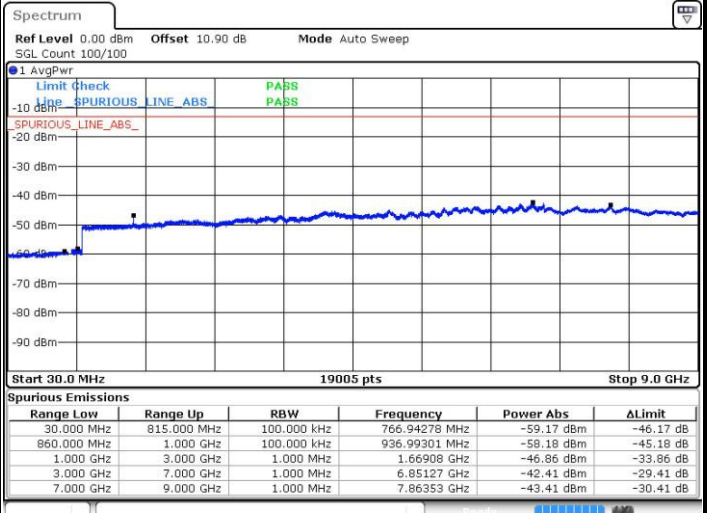
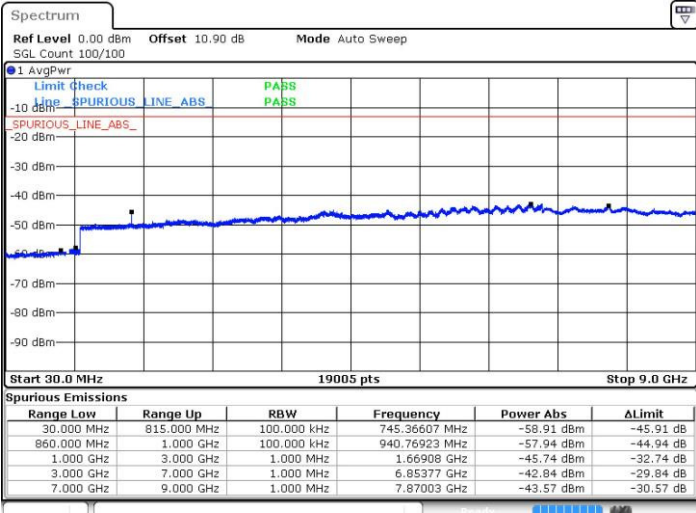


Date: 15.DEC.2016 19:47:20

Date: 15.DEC.2016 19:48:14

Middle Channel / QPSK

Middle Channel / 16QAM



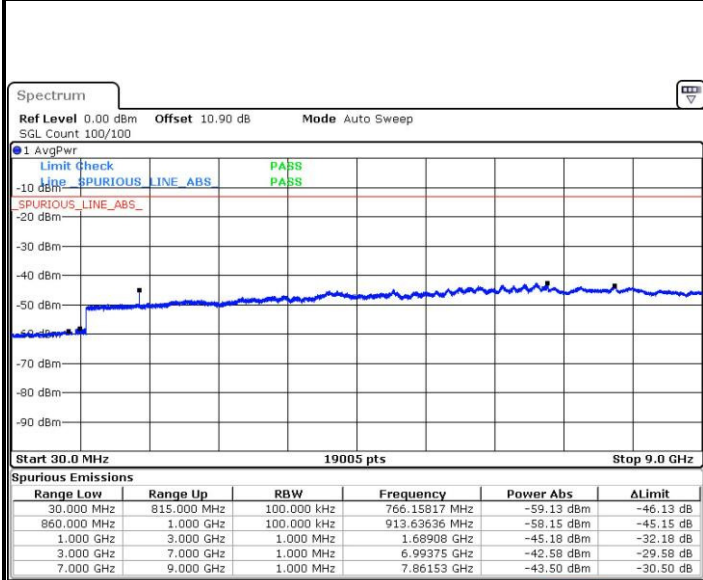
Date: 15.DEC.2016 19:49:49

Date: 15.DEC.2016 19:50:44



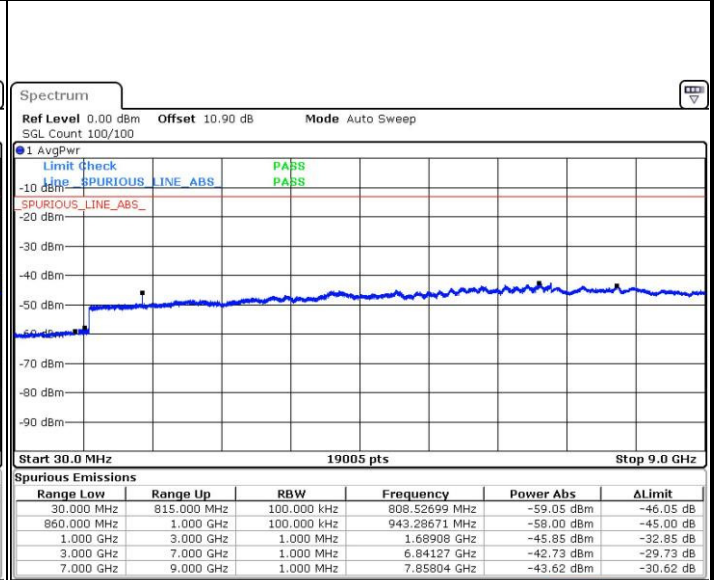
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 15.DEC.2016 20:18:50

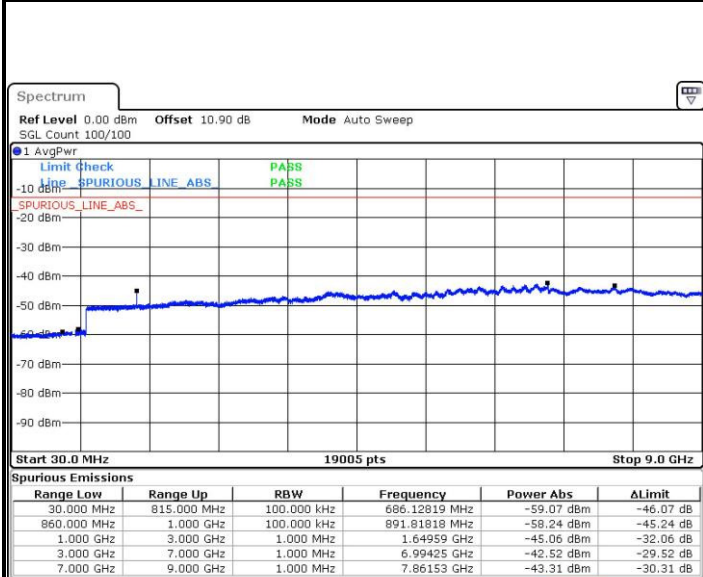
Highest Channel / 16QAM



Date: 15.DEC.2016 20:19:44

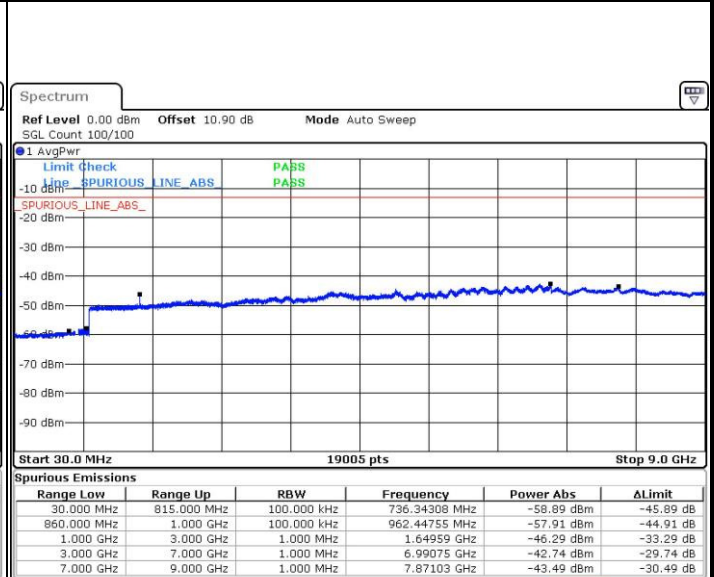
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 15.DEC.2016 20:27:56

Lowest Channel / 16QAM



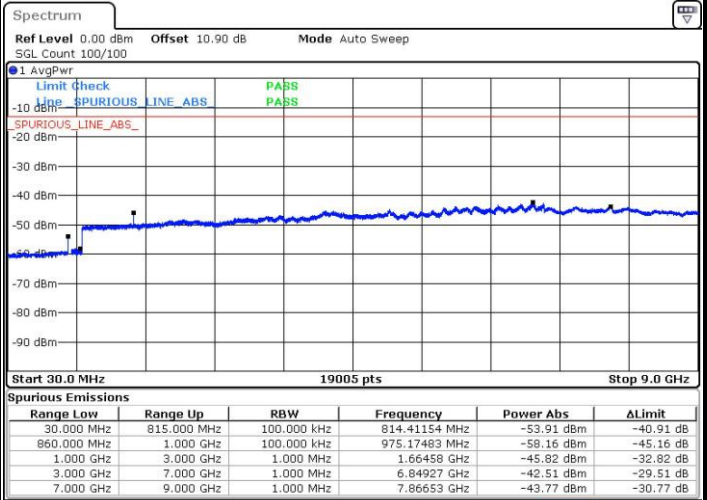
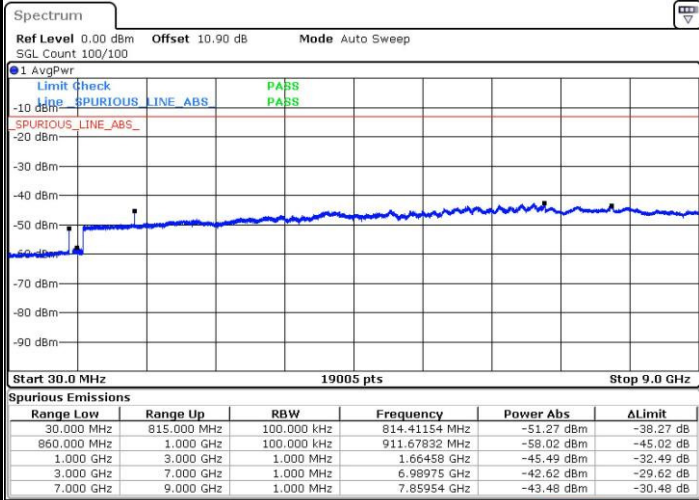
Date: 15.DEC.2016 20:28:50



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

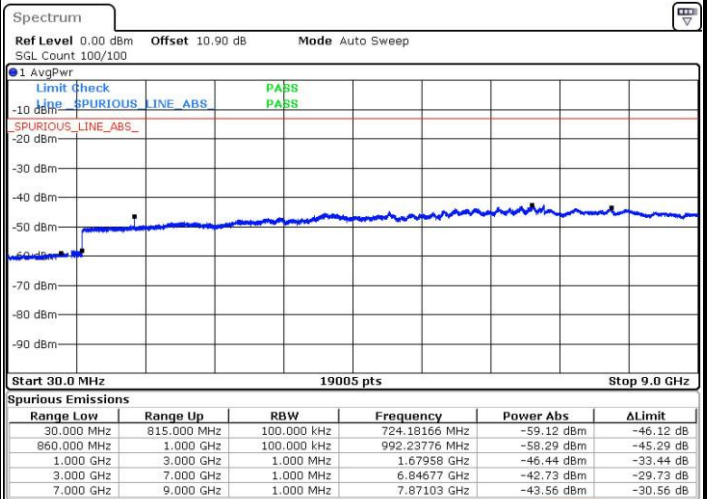
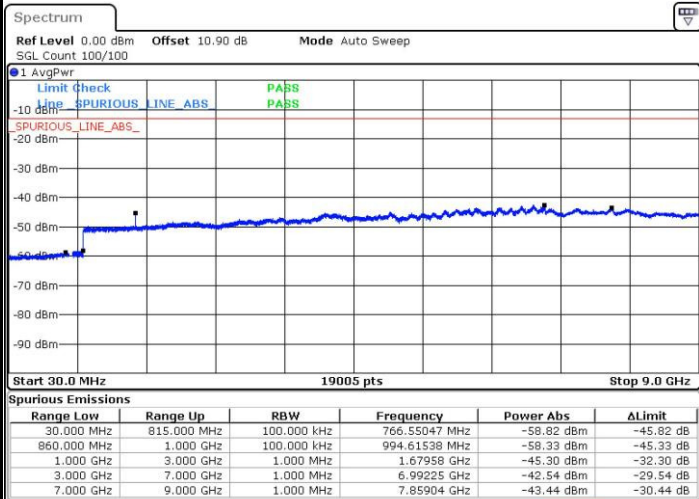


Date: 15.DEC.2016 20:30:26

Date: 15.DEC.2016 20:31:20

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15.DEC.2016 20:39:32

Date: 15.DEC.2016 20:40:27



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	0.0837	PASS
40	Normal Voltage	0.0838	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0839	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0824	
-30	Normal Voltage	0.0826	
20	Maximum Voltage	0.0836	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

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	4.17	5.51	5.3	6.35	PASS
Middle CH	5.19	5.57	5.86	6.35	
Highest CH	4.23	5.42	5.28	6.38	



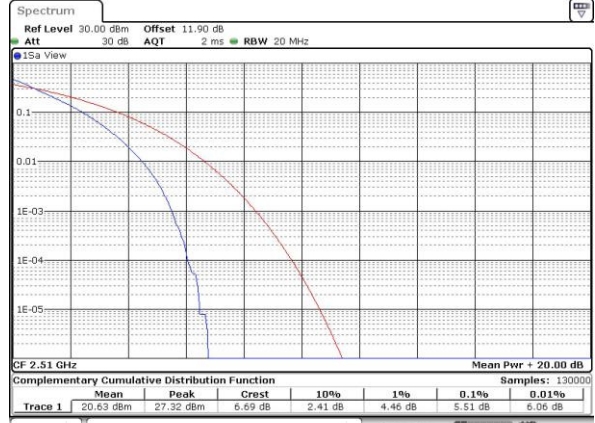
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 15 DEC 2016 22:28:53

Lowest Channel / Full RB



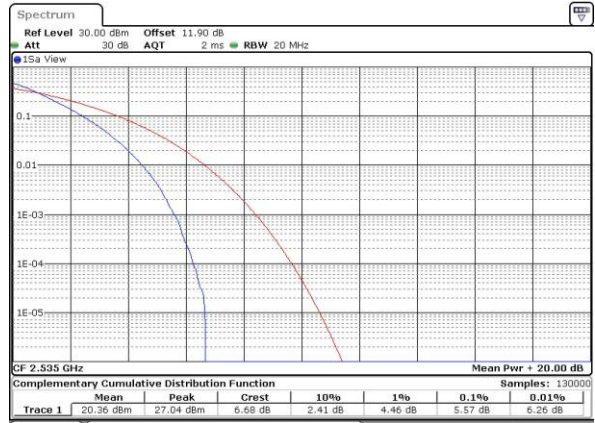
Date: 15 DEC 2016 22:27:03

Middle Channel / 1RB



Date: 15 DEC 2016 22:27:13

Middle Channel / Full RB



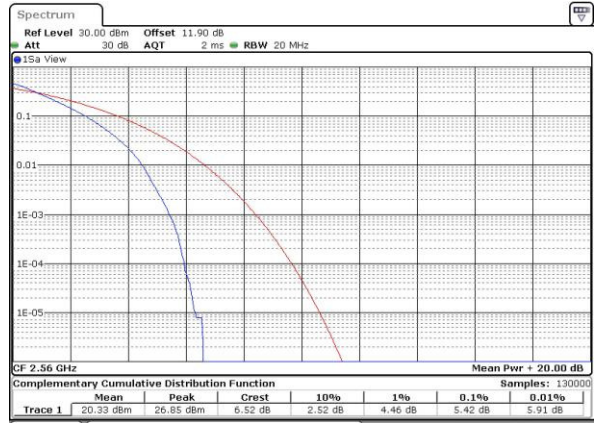
Date: 15 DEC 2016 22:27:25

Highest Channel / 1RB



Date: 15 DEC 2016 22:27:34

Highest Channel / Full RB

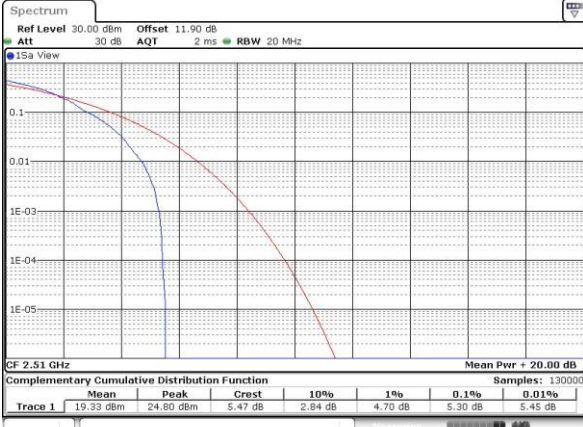


Date: 15 DEC 2016 22:27:49



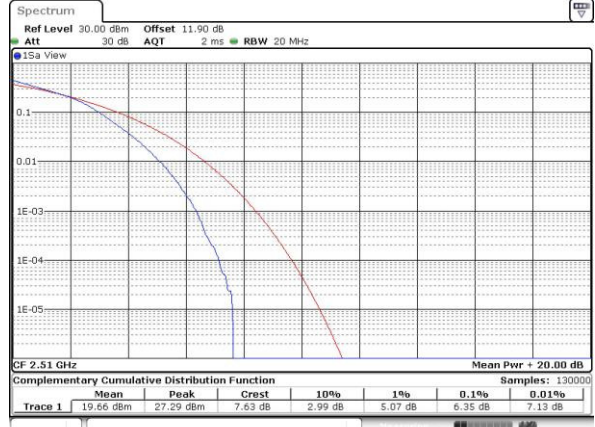
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 15 DEC 2016 22:25:54

Lowest Channel / Full RB



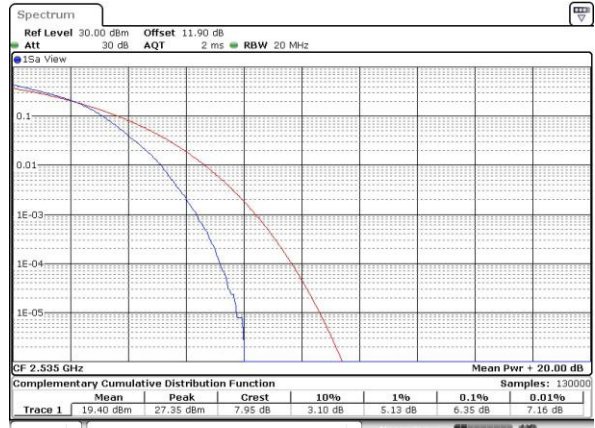
Date: 15 DEC 2016 22:28:04

Middle Channel / 1RB



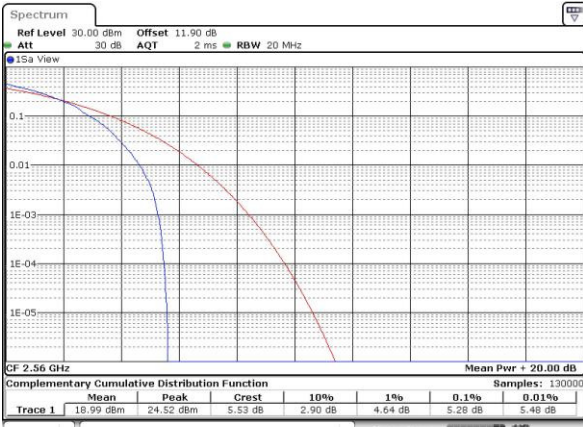
Date: 15 DEC 2016 22:26:14

Middle Channel / Full RB



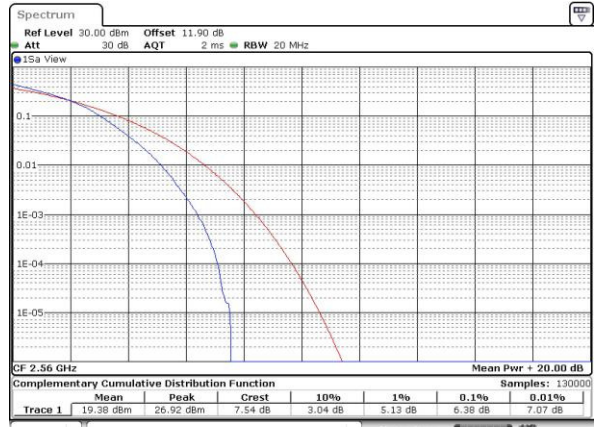
Date: 15 DEC 2016 22:26:23

Highest Channel / 1RB



Date: 15 DEC 2016 22:26:33

Highest Channel / Full RB



Date: 15 DEC 2016 22:26:44



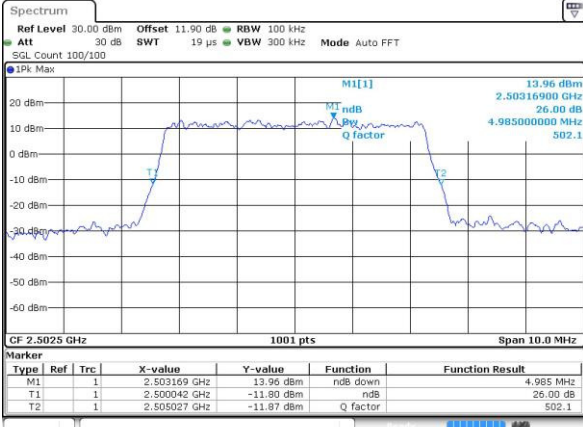
26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.985	5.015	9.95	10.01	14.625	14.476	20.1	20.14
Middle CH	-	-	-	-	4.935	4.975	9.79	9.77	14.386	14.416	20.22	20.18
Highest CH	-	-	-	-	4.905	4.975	9.89	9.81	14.775	14.356	20.38	20.34



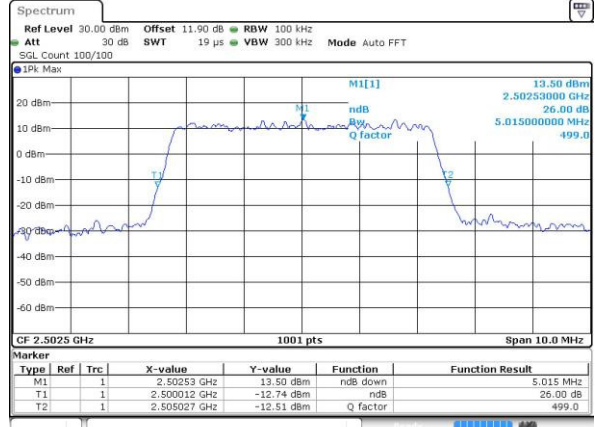
LTE Band 7

Lowest Channel / 5MHz / QPSK



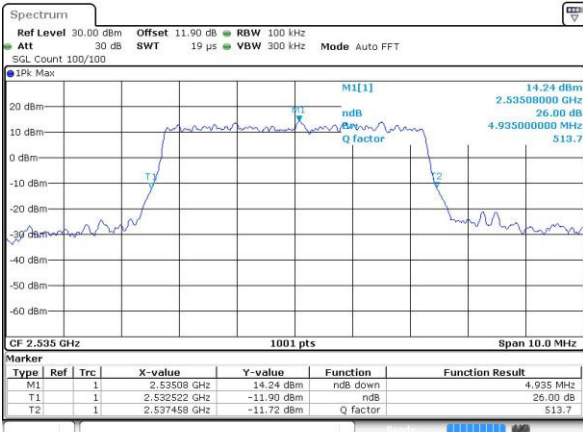
Date: 15 DEC 2016 21:19:14

Lowest Channel / 5MHz / 16QAM



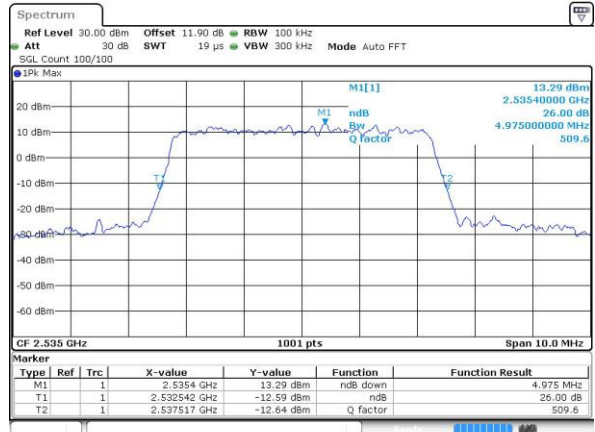
Date: 15 DEC 2016 21:19:24

Middle Channel / 5MHz / QPSK



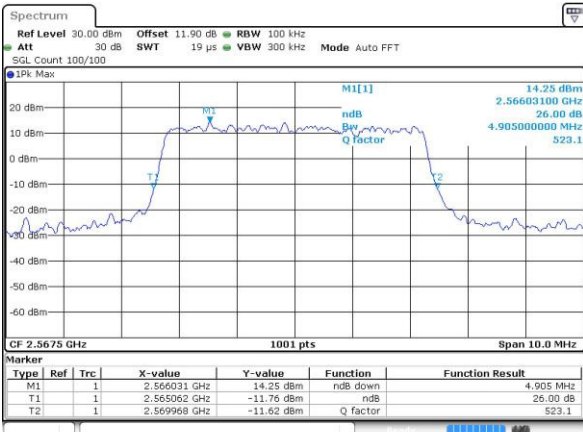
Date: 15 DEC 2016 21:26:22

Middle Channel / 5MHz / 16QAM



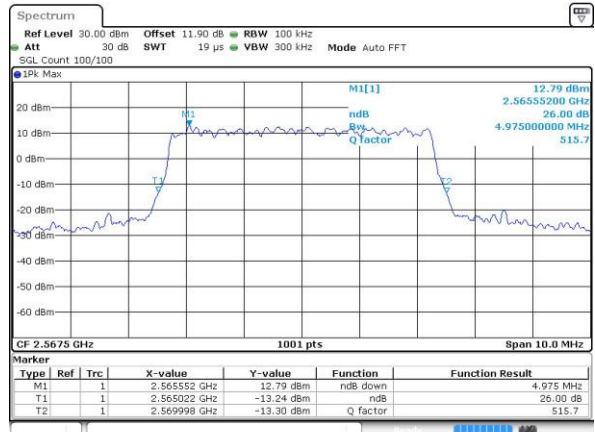
Date: 15 DEC 2016 21:26:32

Highest Channel / 5MHz / QPSK



Date: 15 DEC 2016 21:28:51

Highest Channel / 5MHz / 16QAM

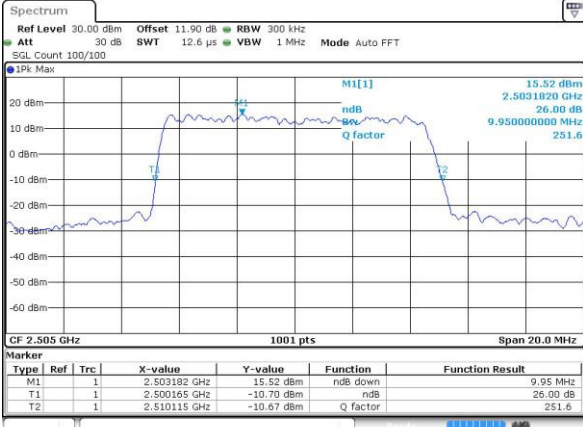


Date: 15 DEC 2016 21:29:01



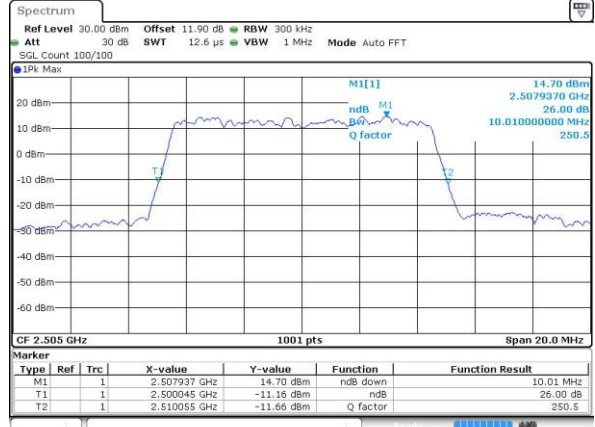
LTE Band 7

Lowest Channel / 10MHz / QPSK



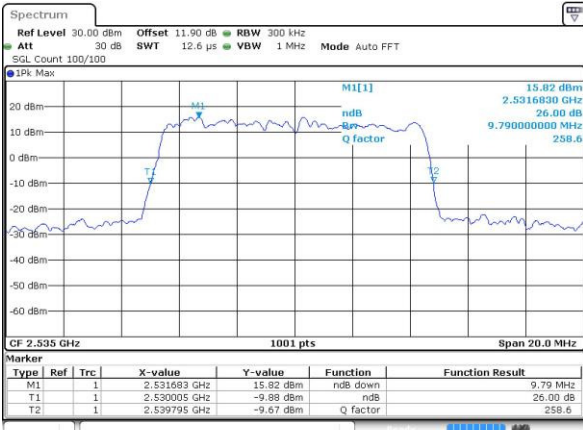
Date: 15 DEC 2016 21:35:59

Lowest Channel / 10MHz / 16QAM



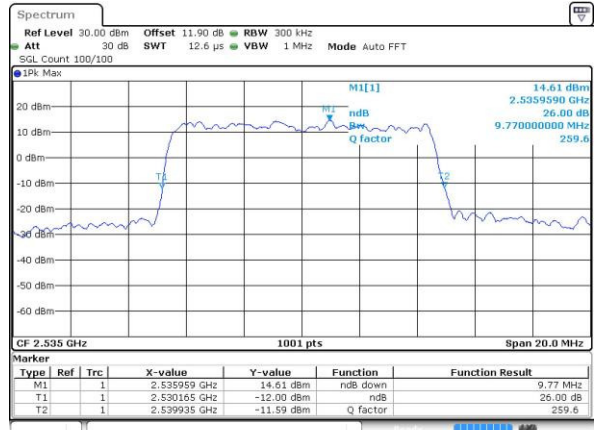
Date: 15 DEC 2016 21:36:09

Middle Channel / 10MHz / QPSK



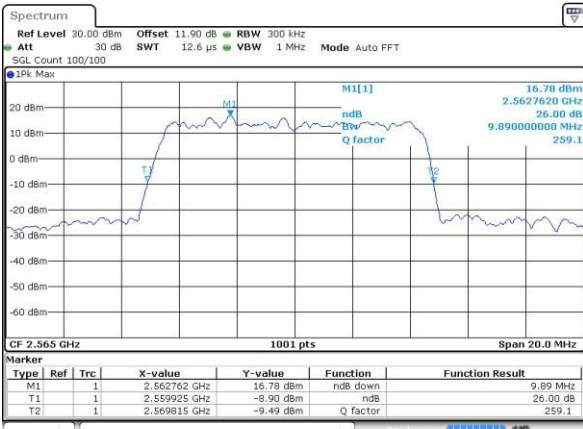
Date: 15 DEC 2016 21:43:08

Middle Channel / 10MHz / 16QAM



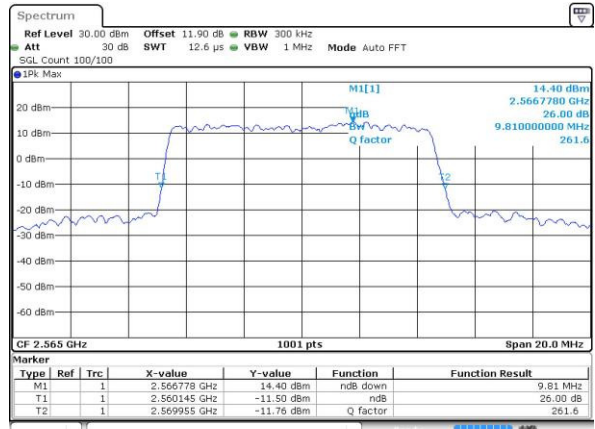
Date: 15 DEC 2016 21:43:17

Highest Channel / 10MHz / QPSK



Date: 15 DEC 2016 21:45:35

Highest Channel / 10MHz / 16QAM

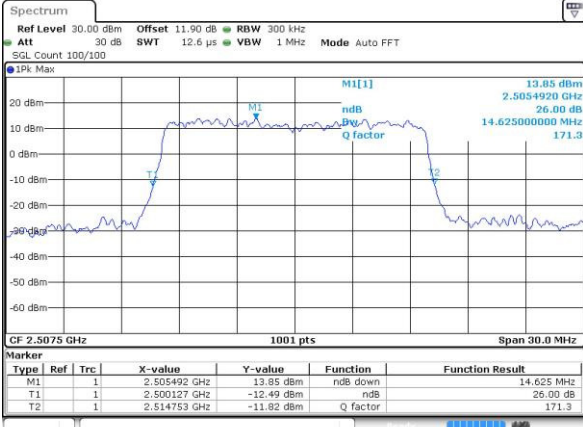


Date: 15 DEC 2016 21:45:45



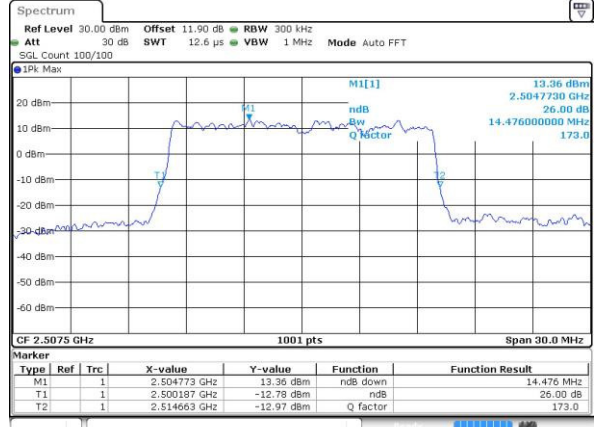
LTE Band 7

Lowest Channel / 15MHz / QPSK



Date: 15 DEC 2016 21:52:43

Lowest Channel / 15MHz / 16QAM



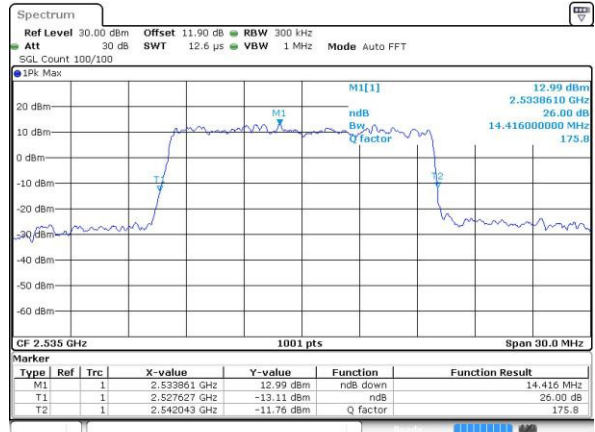
Date: 15 DEC 2016 21:52:53

Middle Channel / 15MHz / QPSK



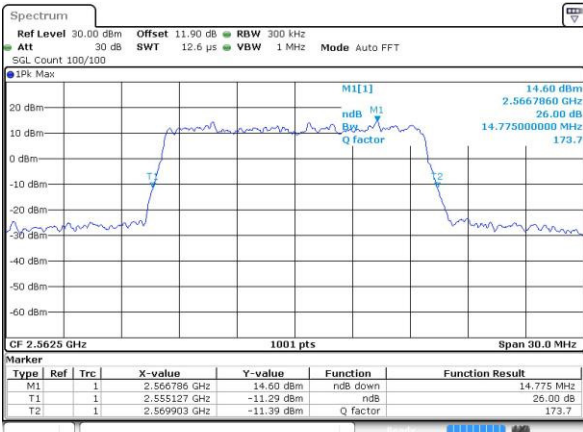
Date: 15 DEC 2016 21:59:50

Middle Channel / 15MHz / 16QAM



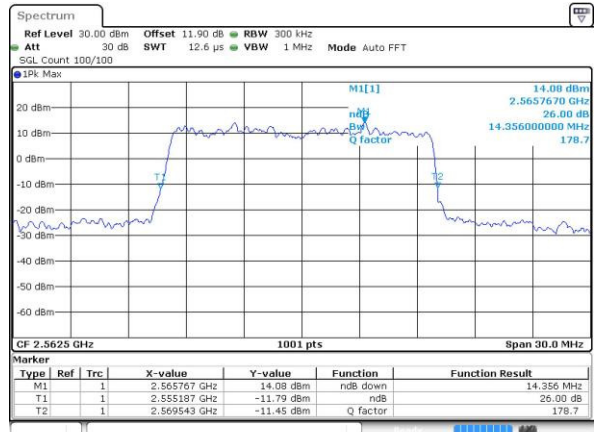
Date: 15 DEC 2016 22:00:01

Highest Channel / 15MHz / QPSK



Date: 15 DEC 2016 22:02:19

Highest Channel / 15MHz / 16QAM

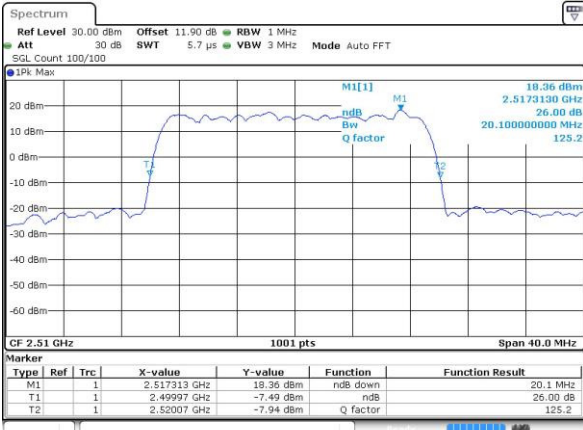


Date: 15 DEC 2016 22:02:29



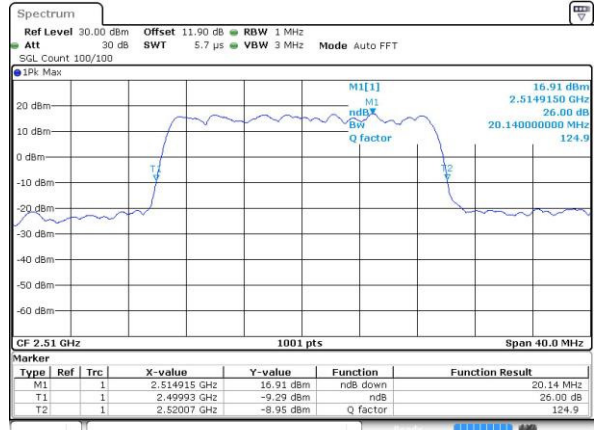
LTE Band 7

Lowest Channel / 20MHz / QPSK



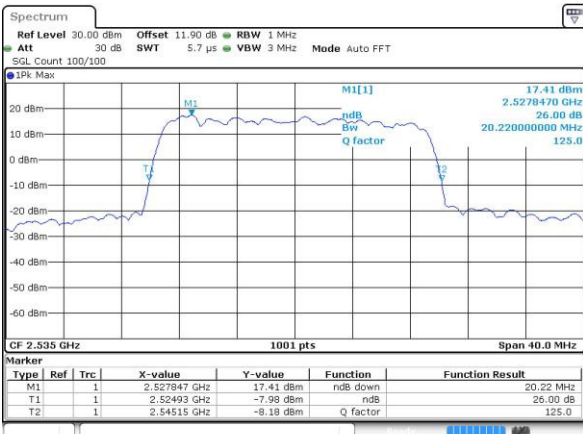
Date: 15 DEC 2016 22:09:27

Lowest Channel / 20MHz / 16QAM



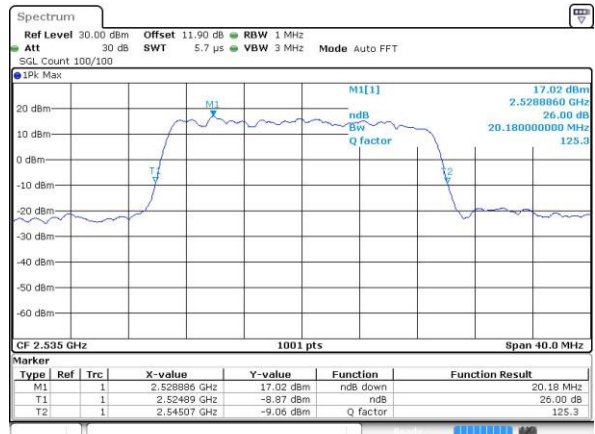
Date: 15 DEC 2016 22:09:37

Middle Channel / 20MHz / QPSK



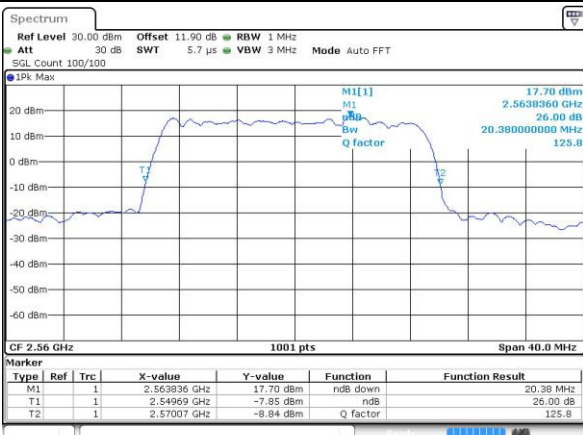
Date: 15 DEC 2016 22:16:35

Middle Channel / 20MHz / 16QAM



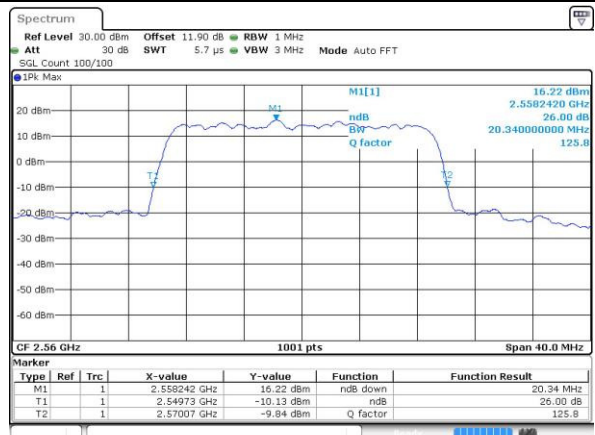
Date: 15 DEC 2016 22:16:45

Highest Channel / 20MHz / QPSK



Date: 15 DEC 2016 22:19:04

Highest Channel / 20MHz / 16QAM



Date: 15 DEC 2016 22:19:14



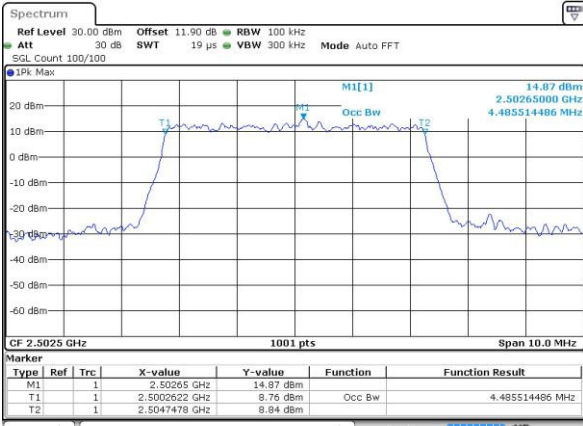
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.5	9.09	9.03	13.46	13.52	18.38	18.54
Middle CH	-	-	-	-	4.5	4.52	9.03	8.99	13.43	13.46	18.34	18.34
Highest CH	-	-	-	-	4.5	4.49	9.03	9.07	13.49	13.49	18.46	18.5



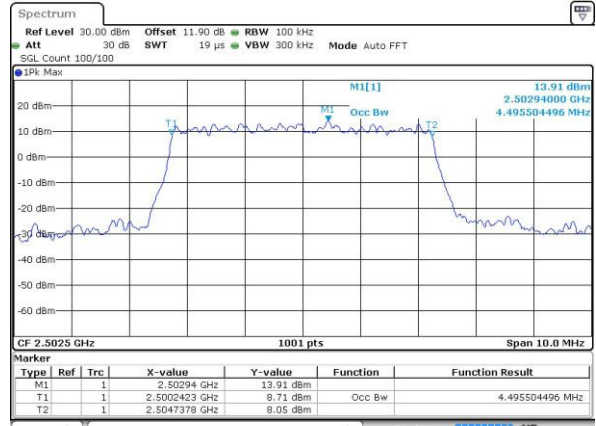
LTE Band 7

Lowest Channel / 5MHz / QPSK



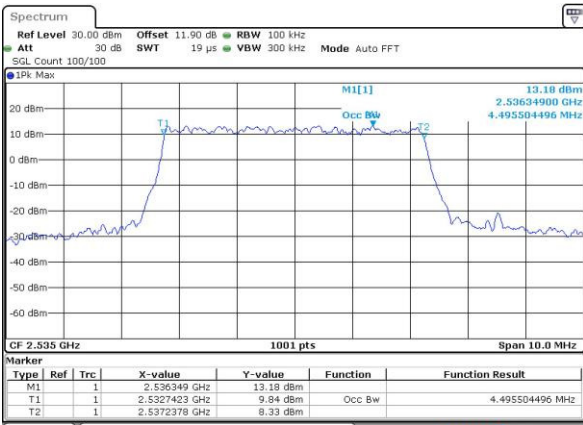
Date: 15 DEC 2016 21:18:53

Lowest Channel / 5MHz / 16QAM



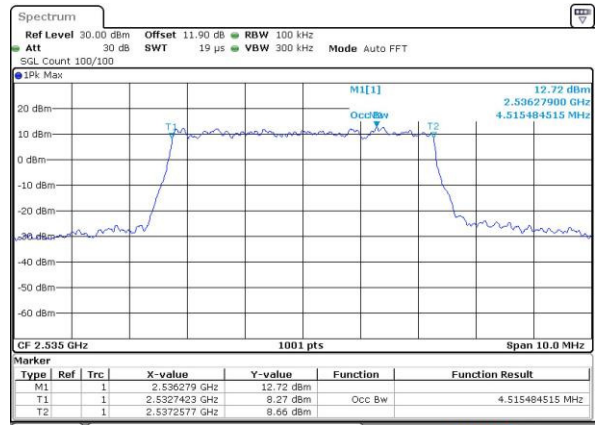
Date: 15 DEC 2016 21:19:04

Middle Channel / 5MHz / QPSK



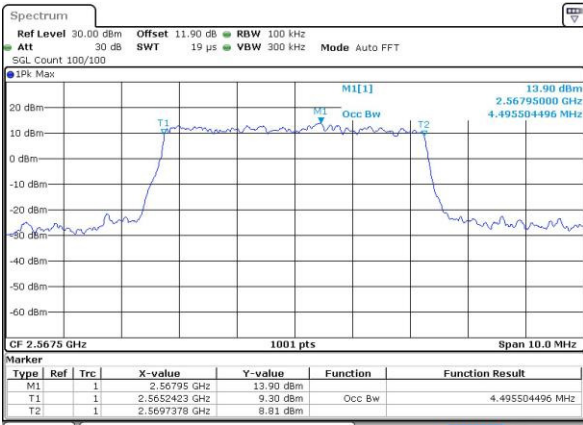
Date: 15 DEC 2016 21:26:01

Middle Channel / 5MHz / 16QAM



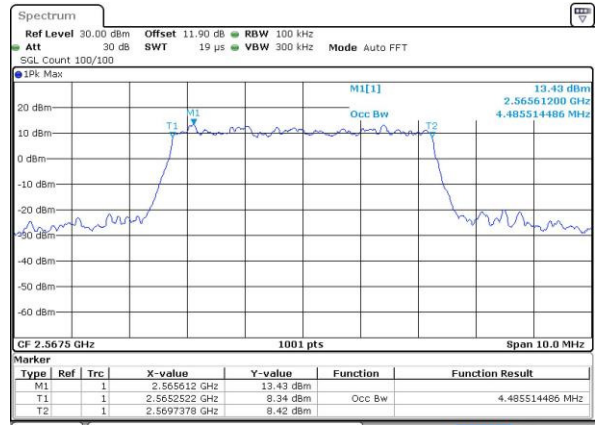
Date: 15 DEC 2016 21:26:11

Highest Channel / 5MHz / QPSK



Date: 15 DEC 2016 21:28:30

Highest Channel / 5MHz / 16QAM



Date: 15 DEC 2016 21:28:40