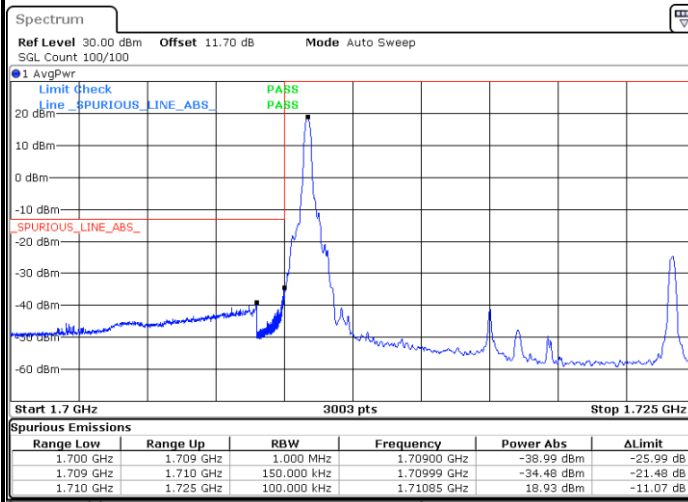


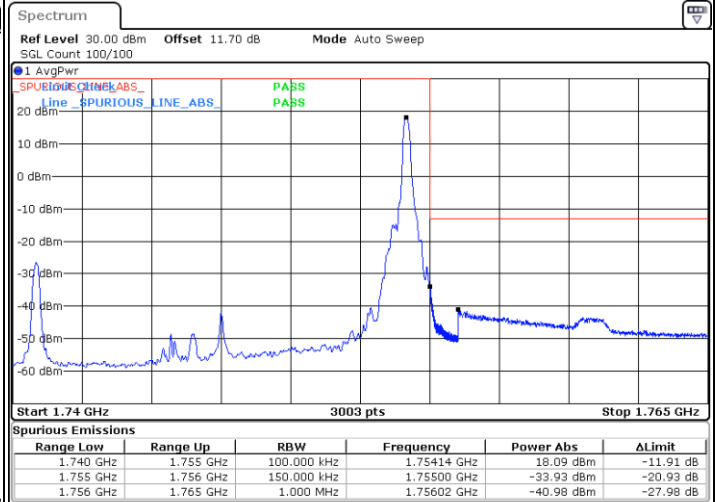


LTE Band 4 / 15MHz / 64QAM

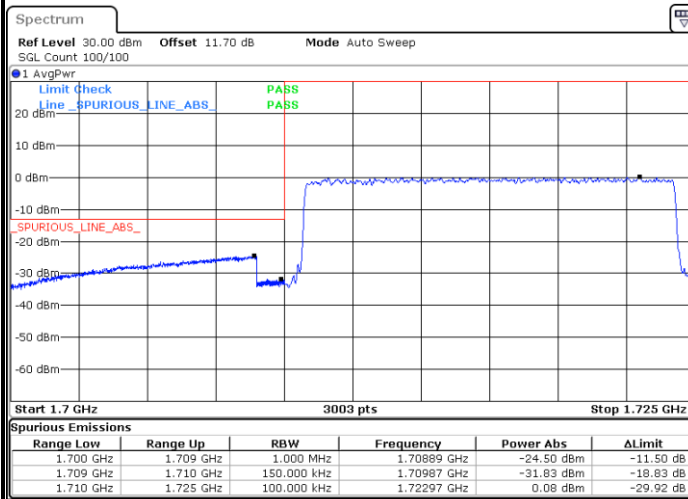
Lowest Band Edge / 1 RB



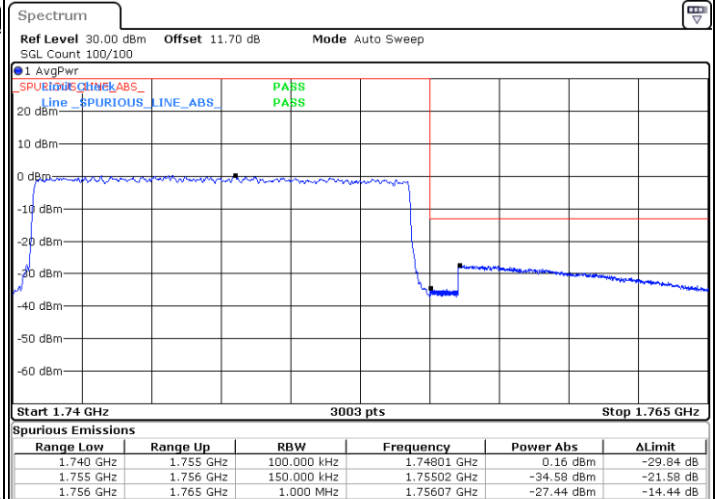
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



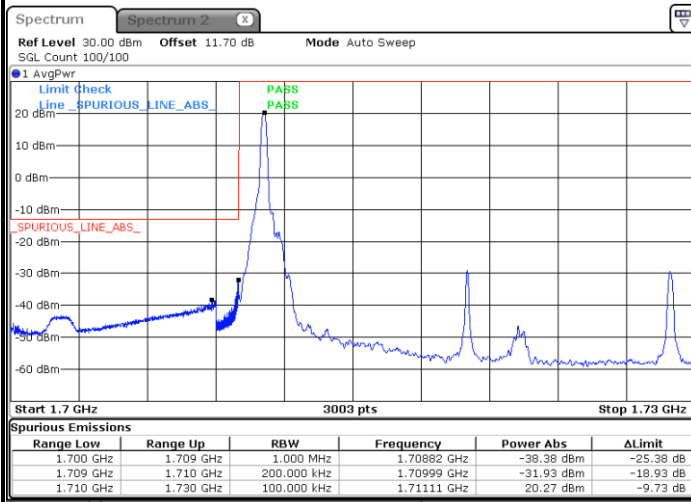
Highest Band Edge / Full RB



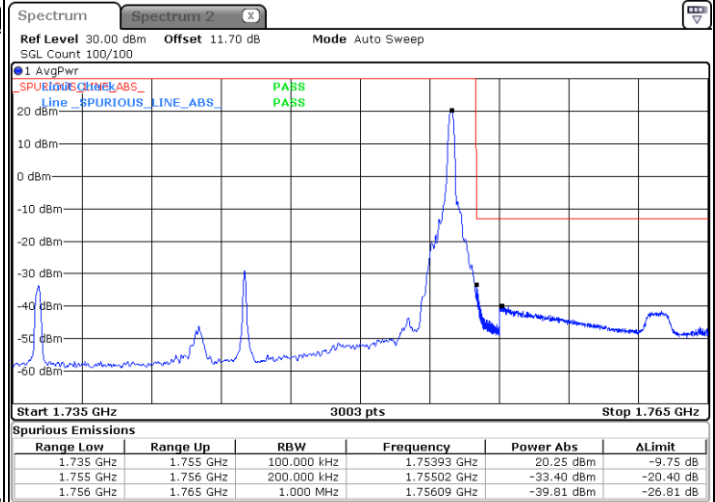


LTE Band 4 / 20MHz / QPSK

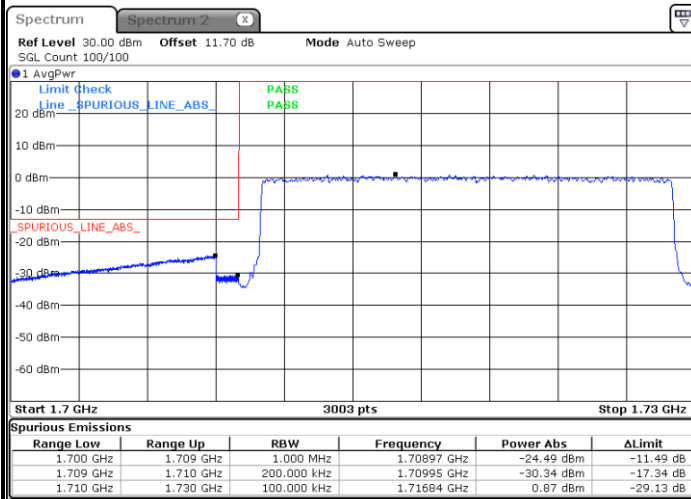
Lowest Band Edge / 1 RB



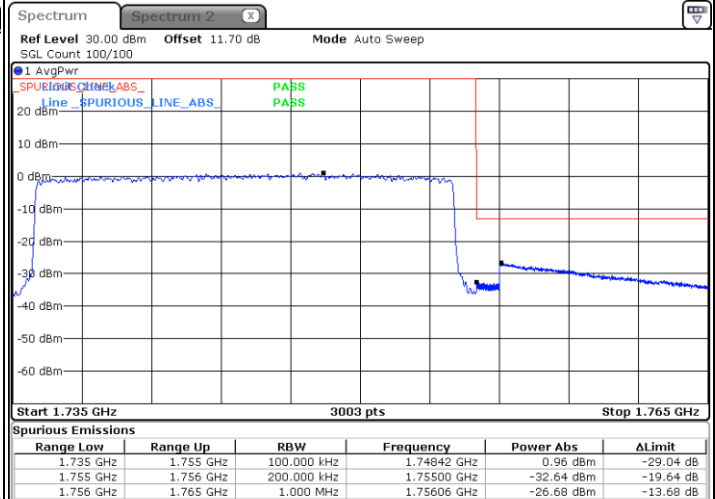
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



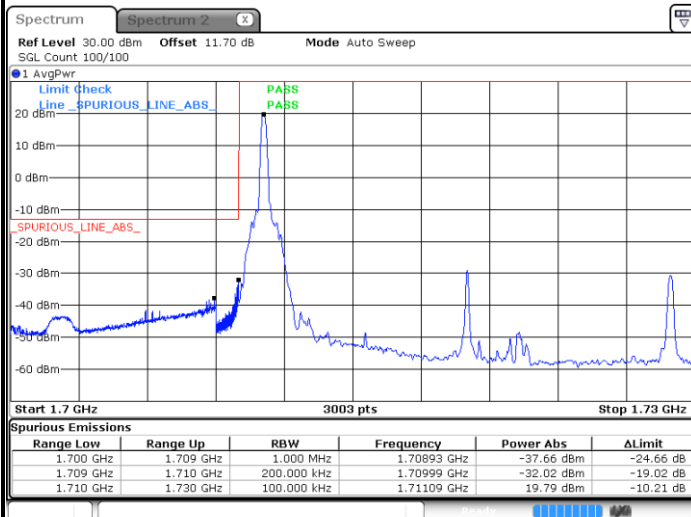
Highest Band Edge / Full RB



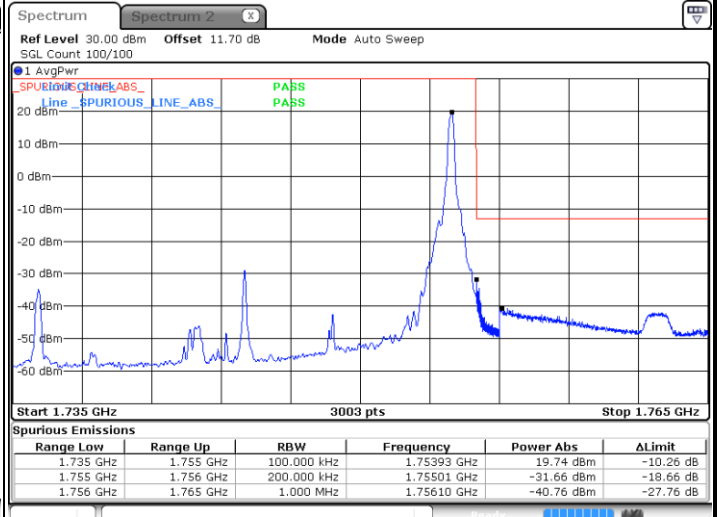


LTE Band 4 / 20MHz / 16QAM

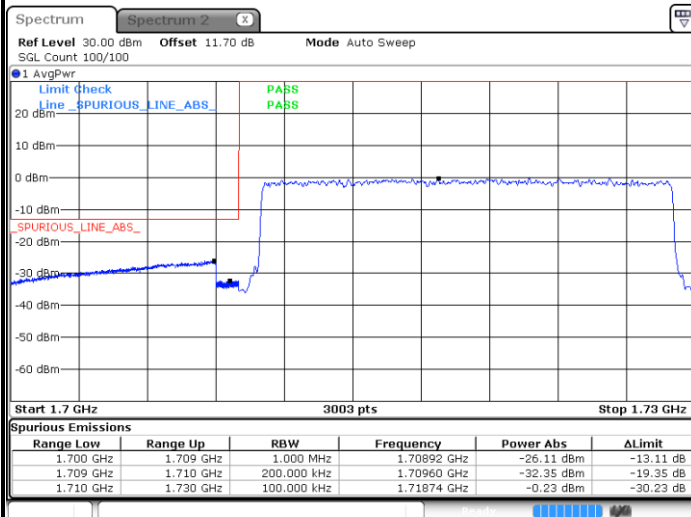
Lowest Band Edge / 1 RB



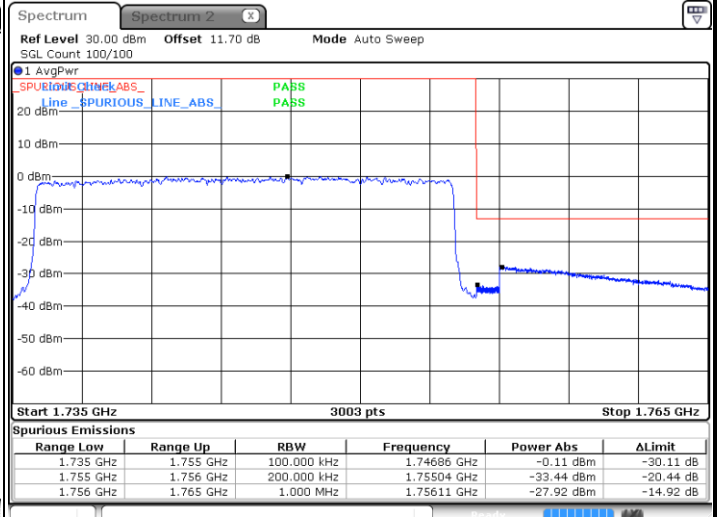
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



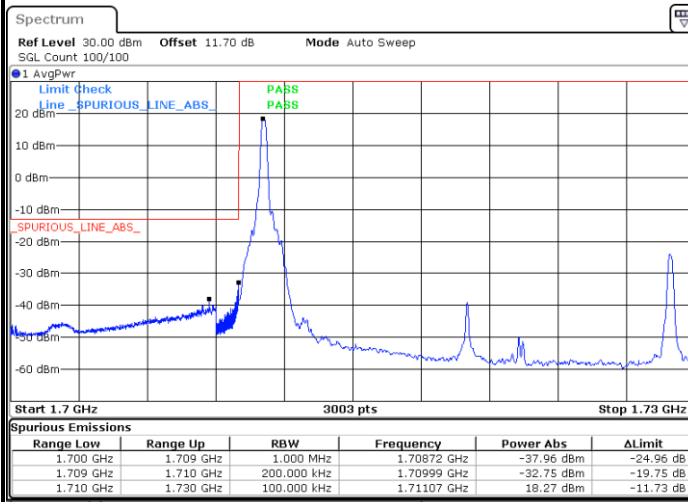
Highest Band Edge / Full RB



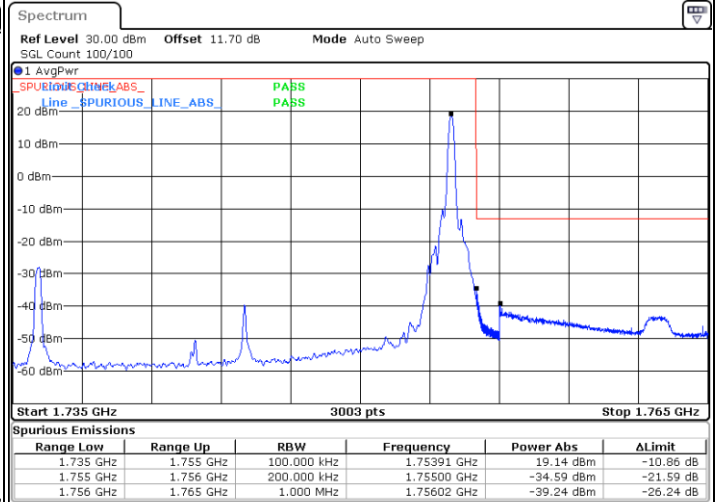


LTE Band 4 / 20MHz / 64QAM

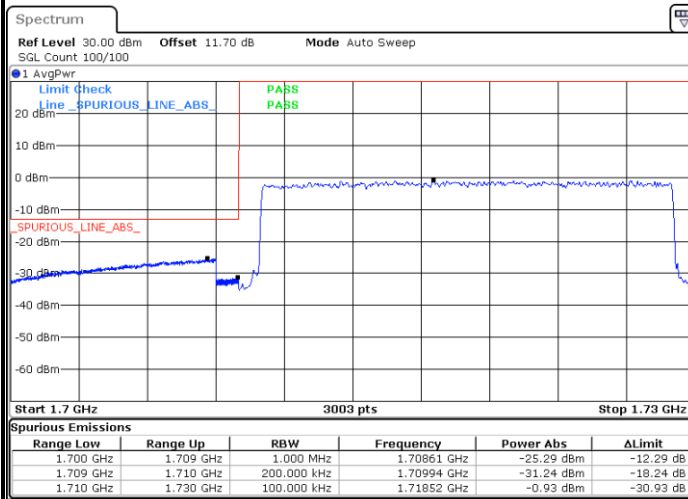
Lowest Band Edge / 1 RB



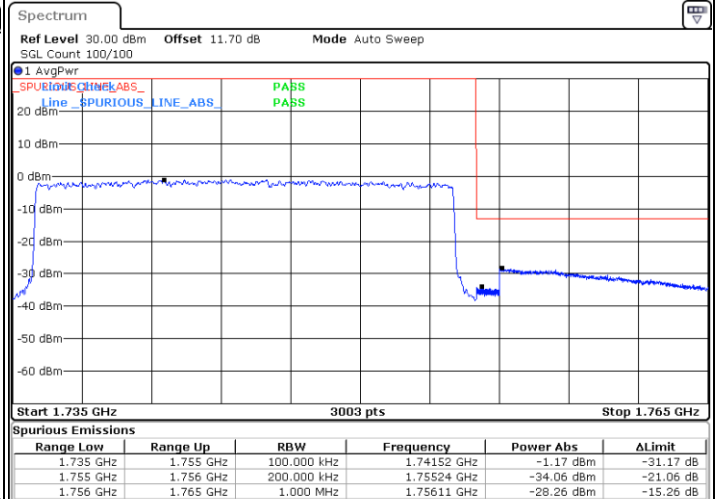
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



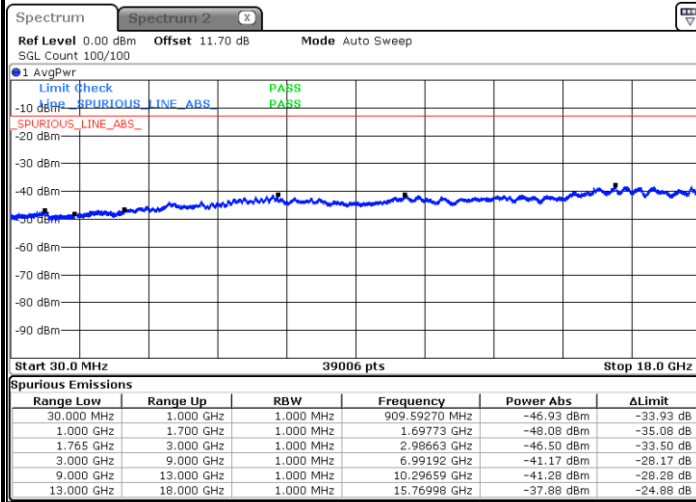


Conducted Spurious Emission



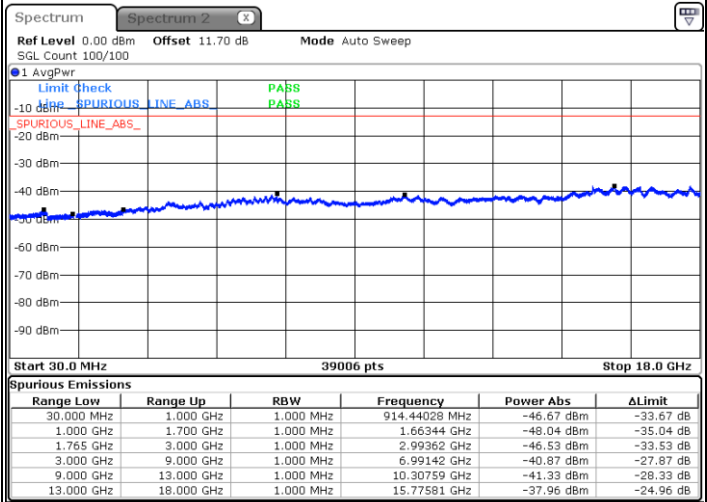
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



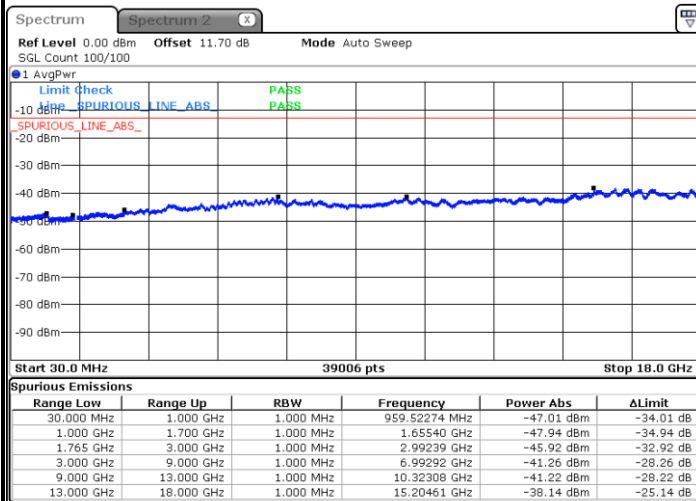
Date: 12 SEP. 2017 15:10:50

Lowest Channel / 16QAM



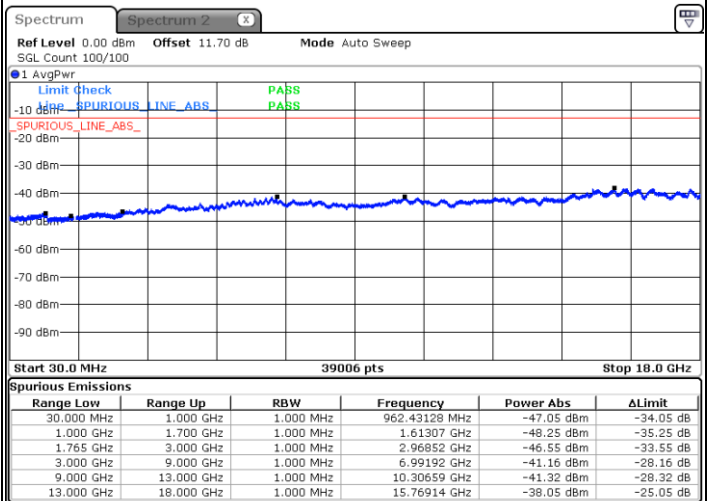
Date: 12 SEP. 2017 15:11:44

Middle Channel / QPSK



Date: 12 SEP. 2017 15:13:18

Middle Channel / 16QAM

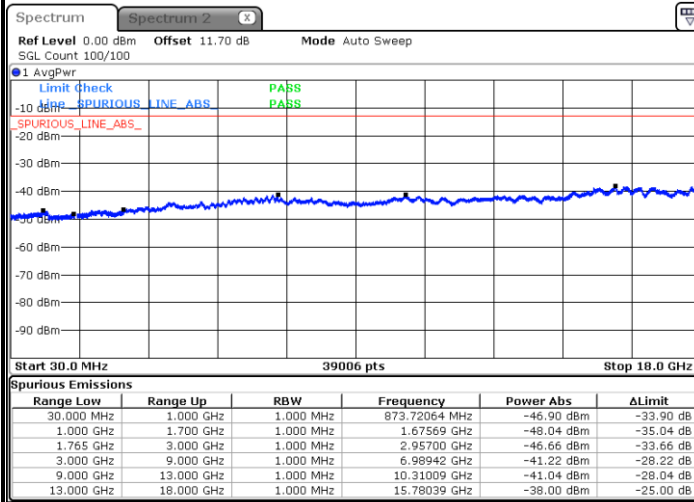


Date: 12 SEP. 2017 15:14:12



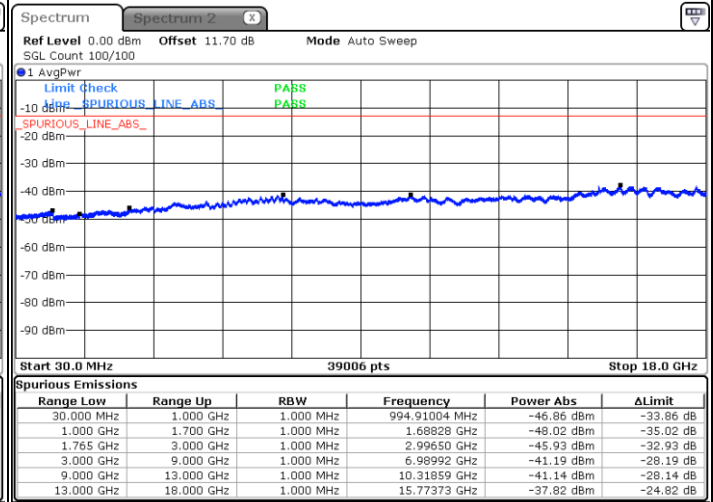
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 12 SEP. 2017 15:20:21

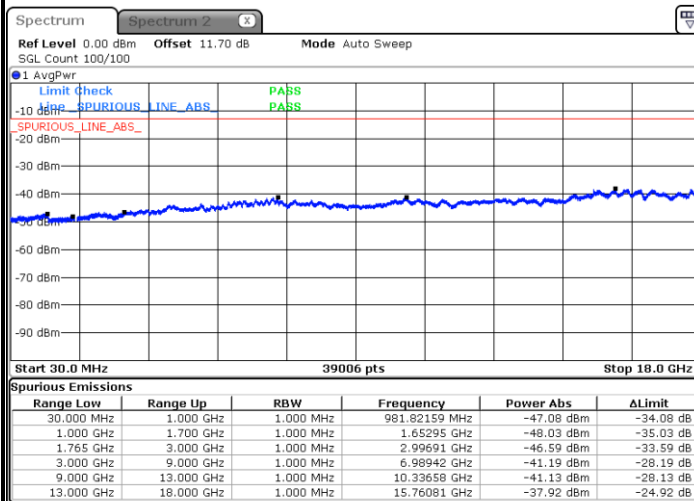
Highest Channel / 16QAM



Date: 12 SEP. 2017 15:21:15

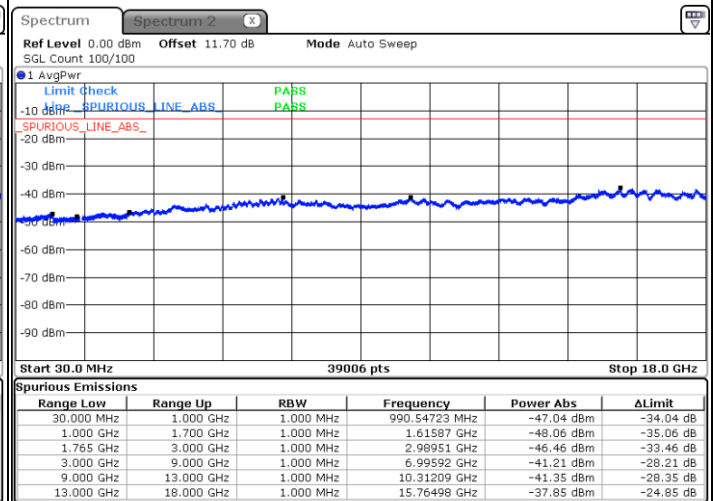
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 12 SEP. 2017 13:44:08

Lowest Channel / 16QAM

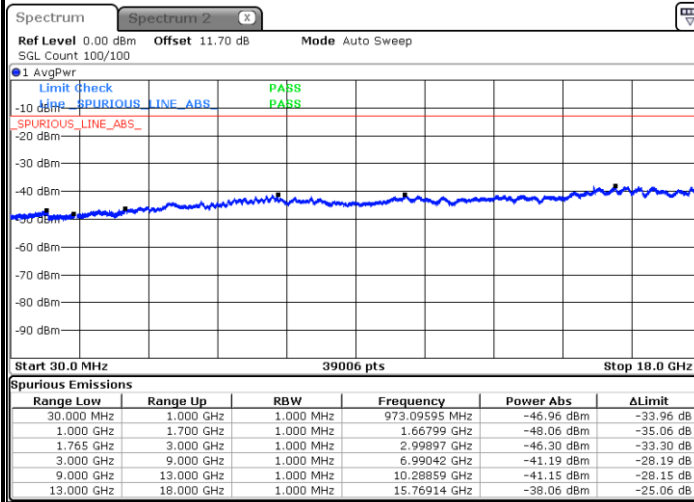


Date: 12 SEP. 2017 13:45:02



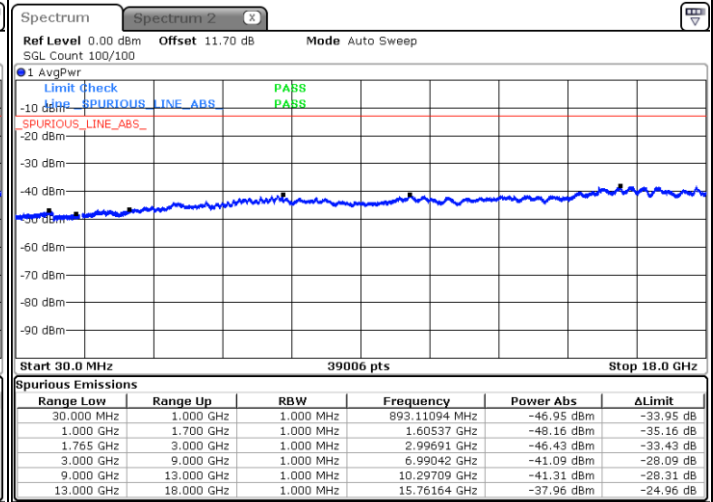
LTE Band 4 / 3MHz

Middle Channel / QPSK



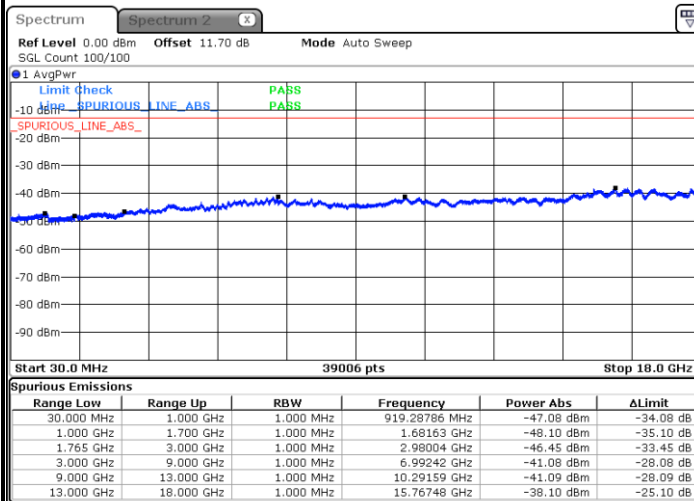
Date: 12 SEP. 2017 13:46:36

Middle Channel / 16QAM



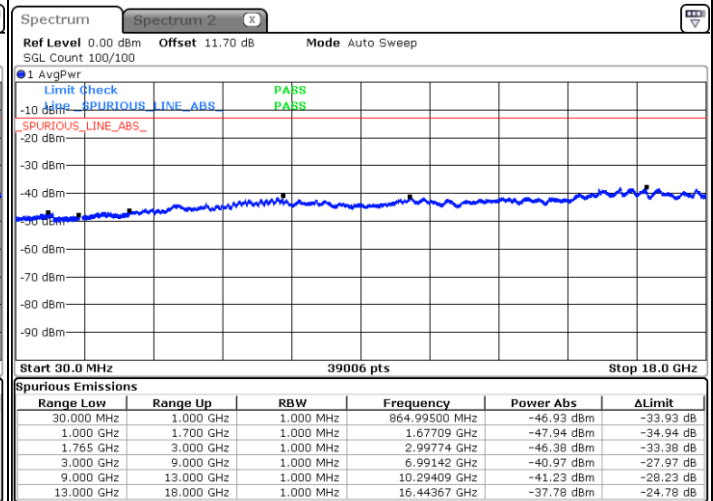
Date: 12 SEP. 2017 13:47:30

Highest Channel / QPSK



Date: 12 SEP. 2017 13:53:38

Highest Channel / 16QAM

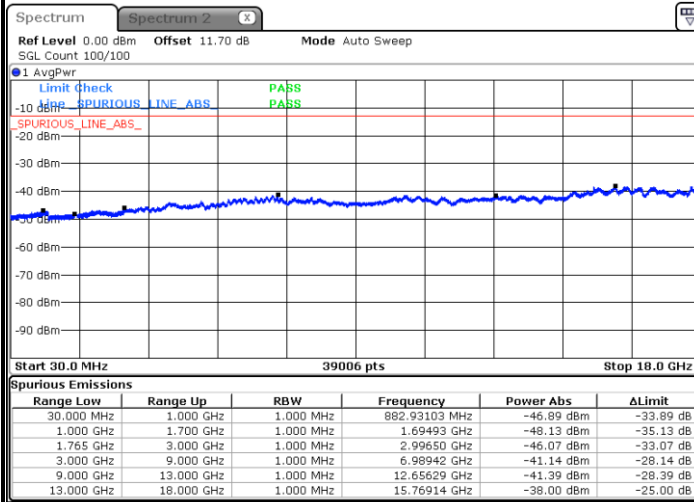


Date: 12 SEP. 2017 13:54:32



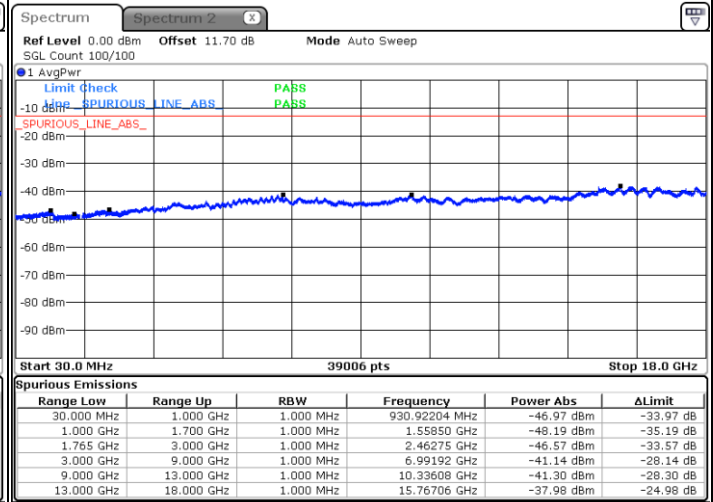
LTE Band 4 / 5MHz

Lowest Channel / QPSK



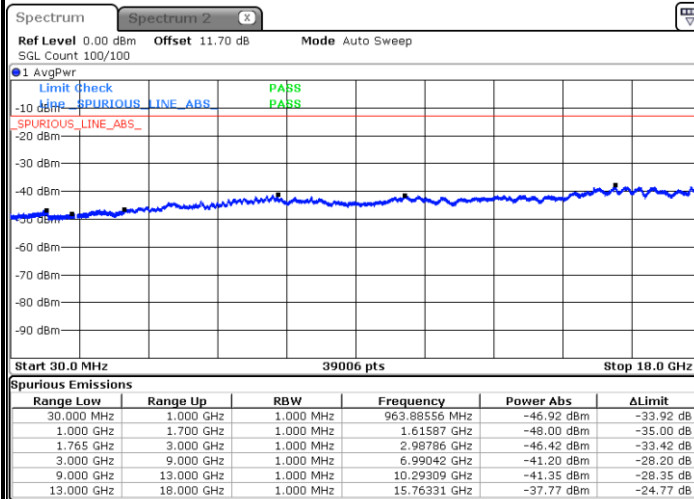
Date: 12 SEP. 2017 14:00:41

Lowest Channel / 16QAM



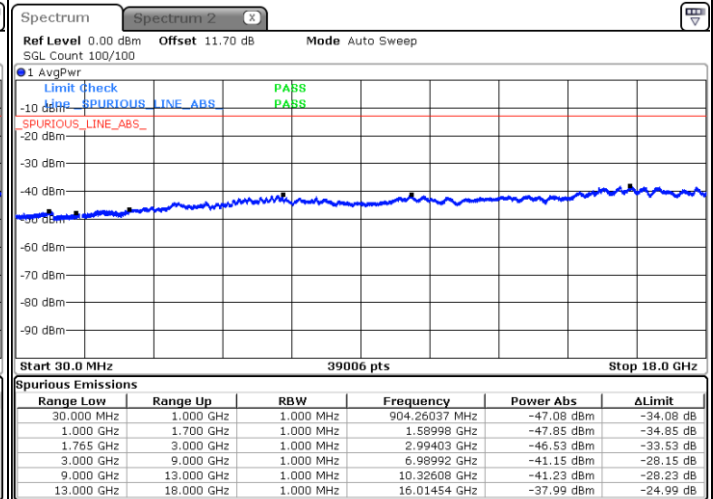
Date: 12 SEP. 2017 14:01:35

Middle Channel / QPSK



Date: 12 SEP. 2017 14:03:09

Middle Channel / 16QAM

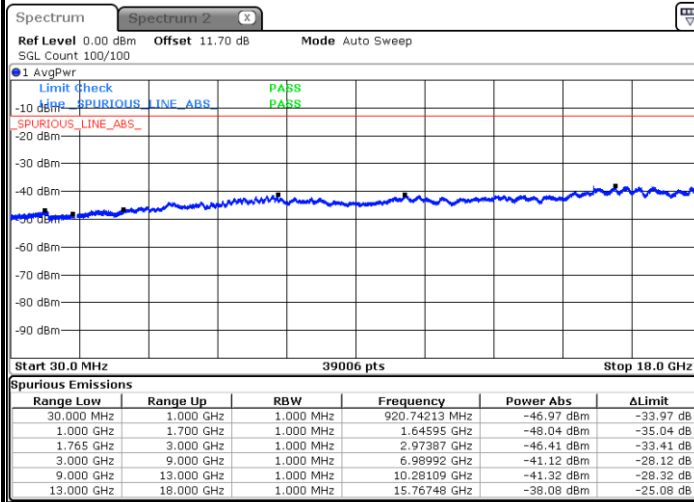


Date: 12 SEP. 2017 14:04:03



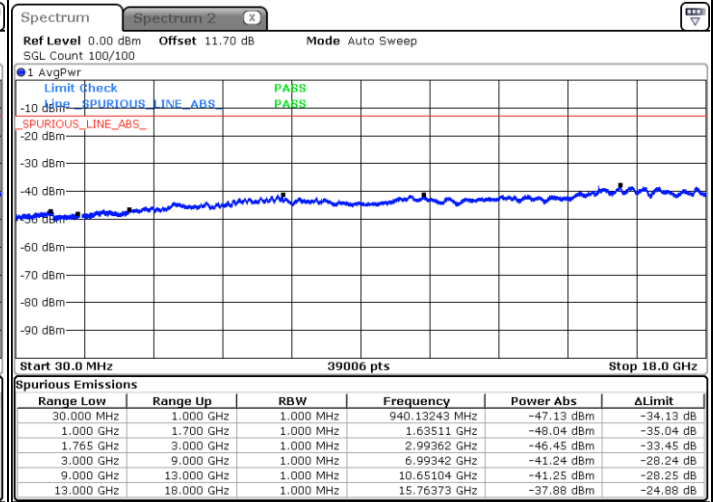
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 12 SEP 2017 14:10:12

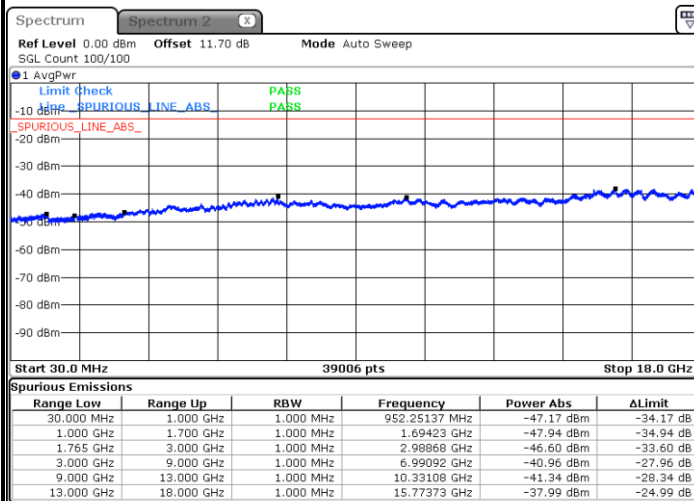
Highest Channel / 16QAM



Date: 12 SEP 2017 14:11:06

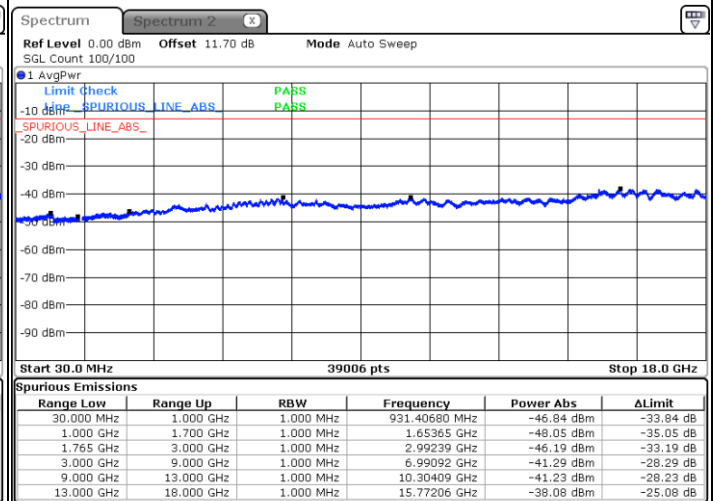
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 12 SEP 2017 14:17:15

Lowest Channel / 16QAM

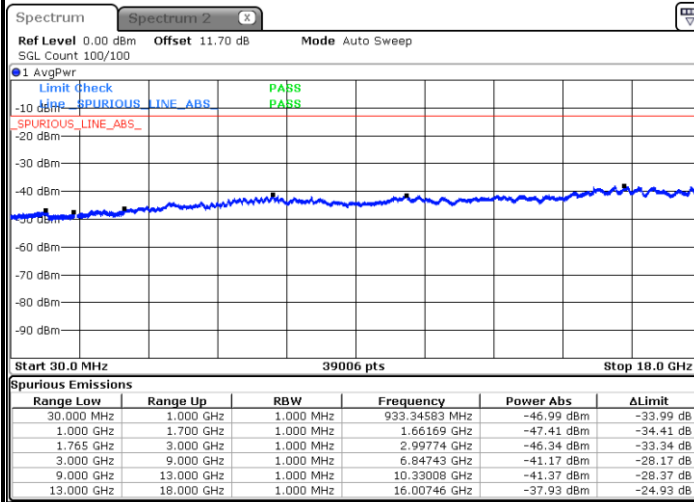


Date: 12 SEP 2017 14:18:09



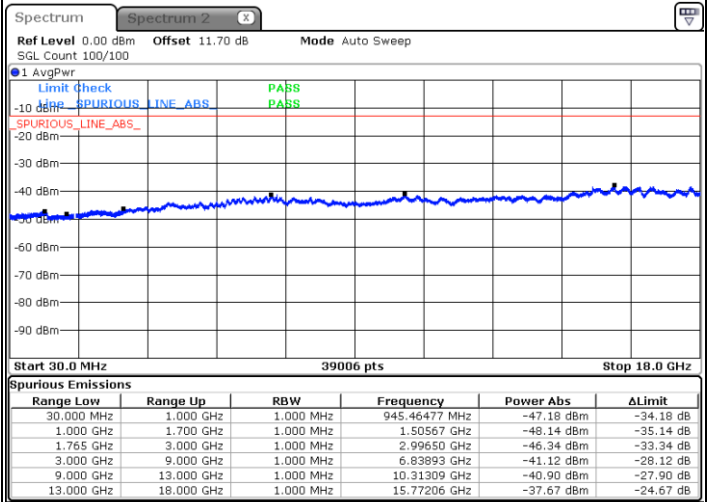
LTE Band 4 / 10MHz

Middle Channel / QPSK



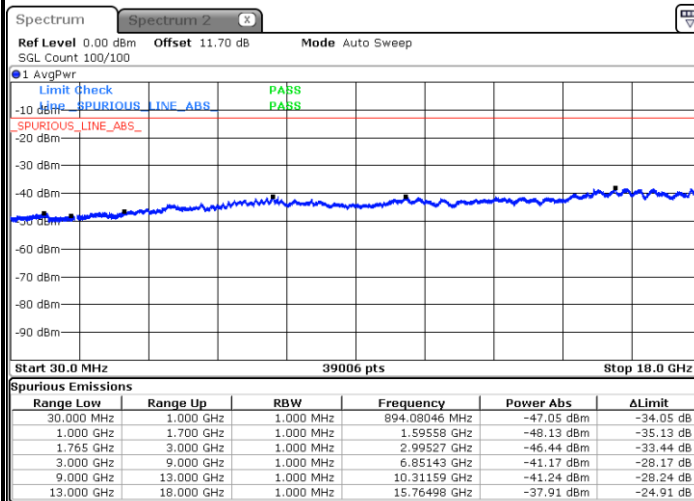
Date: 12 SEP. 2017 14:19:43

Middle Channel / 16QAM



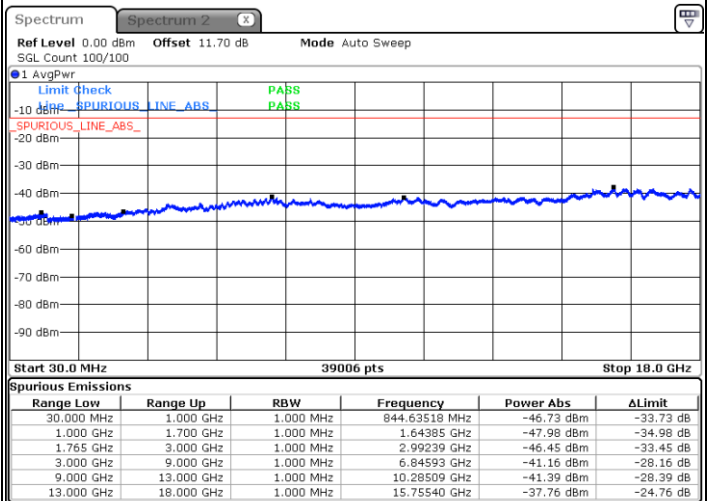
Date: 12 SEP. 2017 14:20:37

Highest Channel / QPSK



Date: 12 SEP. 2017 14:26:46

Highest Channel / 16QAM

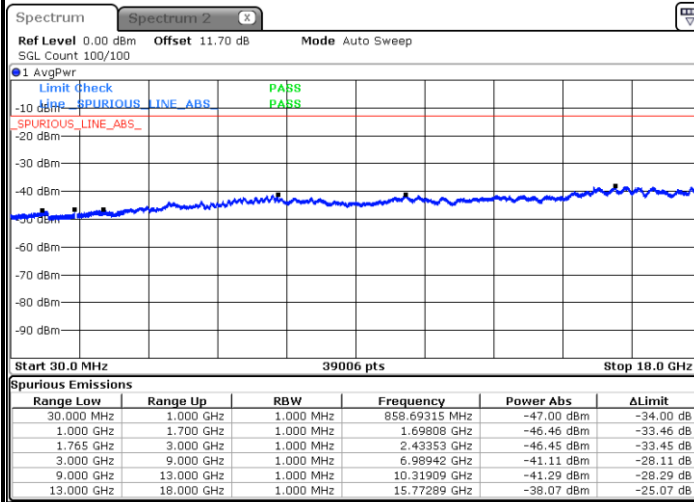


Date: 12 SEP. 2017 14:27:40



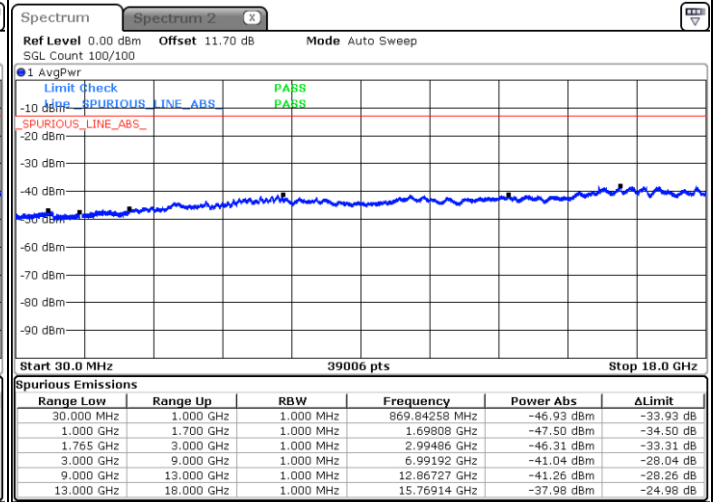
LTE Band 4 / 15MHz

Lowest Channel / QPSK



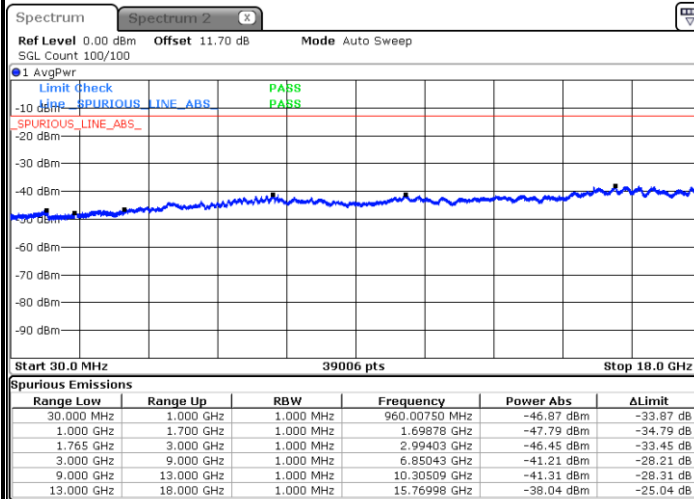
Date: 12 SEP. 2017 14:37:16

Lowest Channel / 16QAM



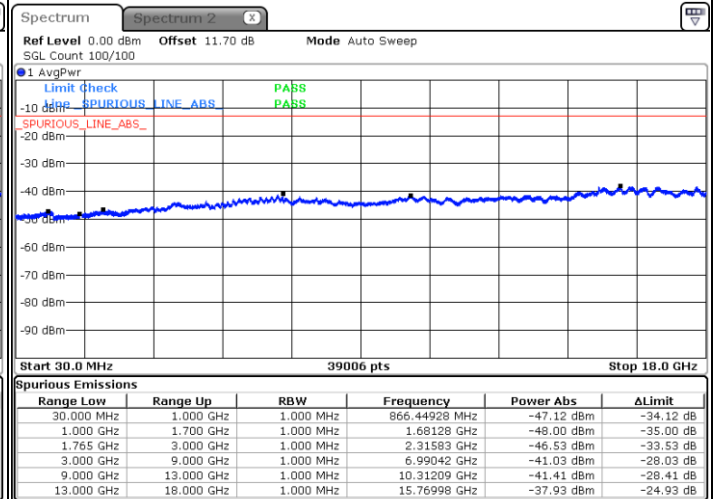
Date: 12 SEP. 2017 14:38:10

Middle Channel / QPSK



Date: 12 SEP. 2017 14:39:44

Middle Channel / 16QAM

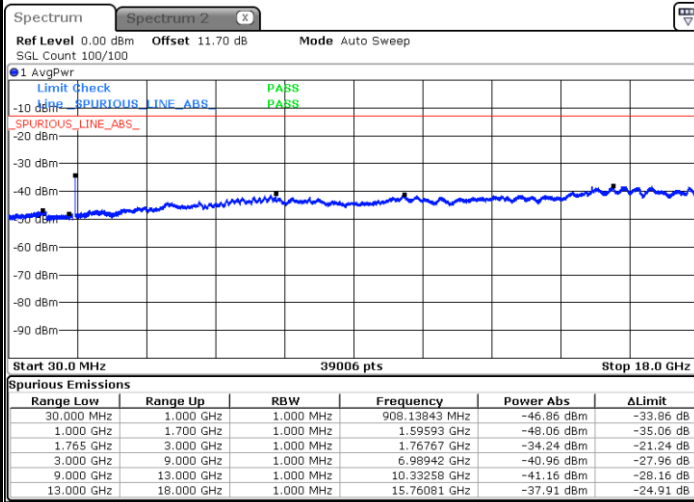


Date: 12 SEP. 2017 14:40:38



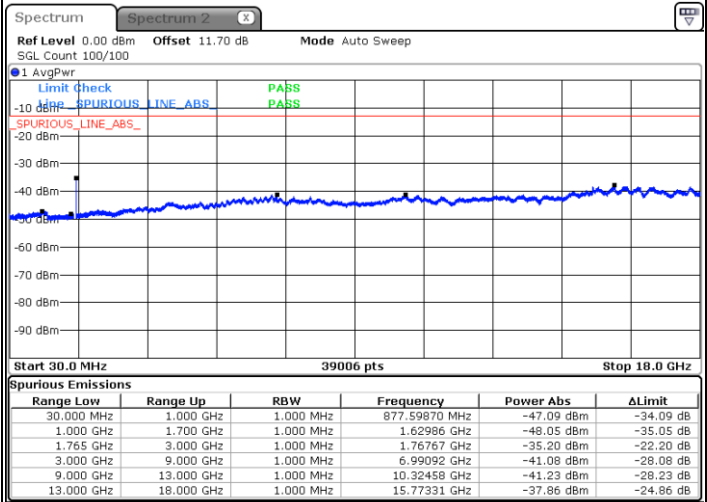
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 12 SEP.2017 14:46:47

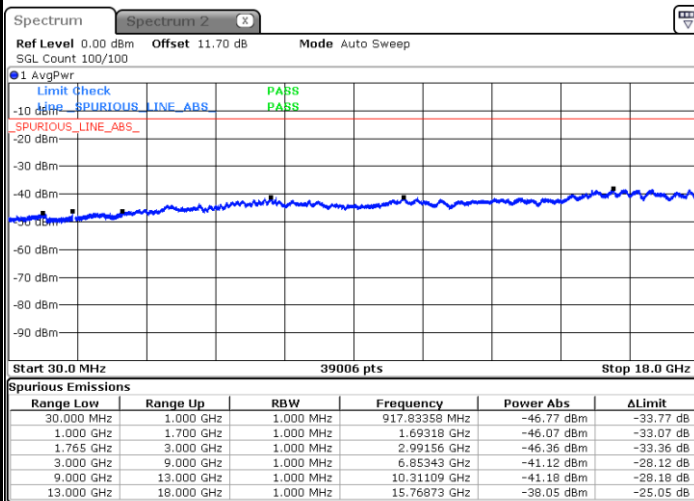
Highest Channel / 16QAM



Date: 12 SEP.2017 14:47:41

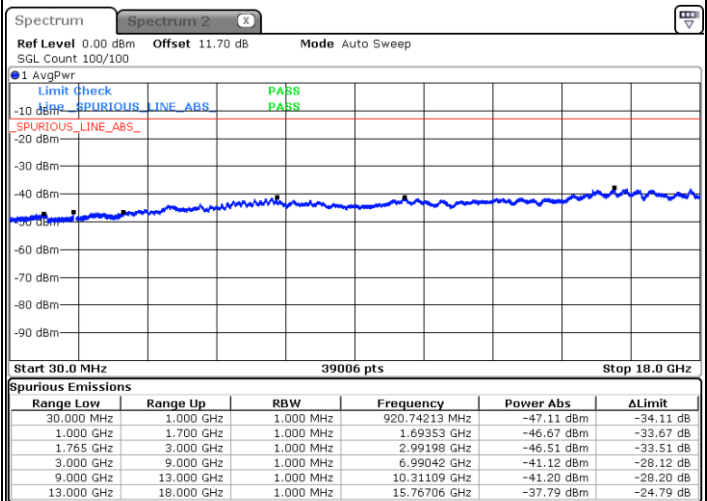
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 12 SEP.2017 14:53:50

Lowest Channel / 16QAM

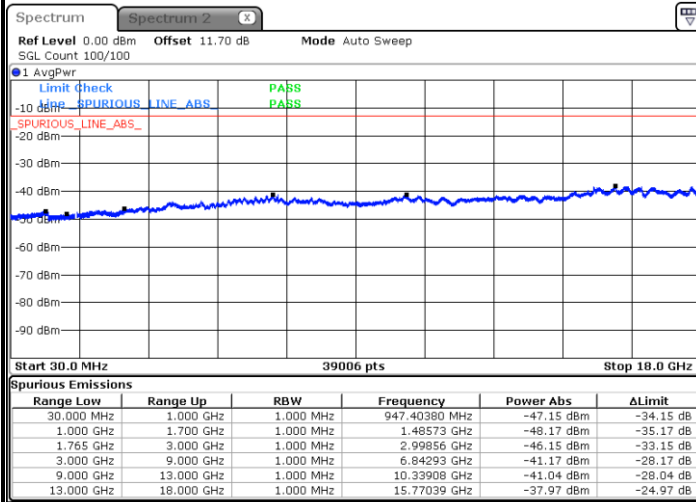


Date: 12 SEP.2017 14:54:44



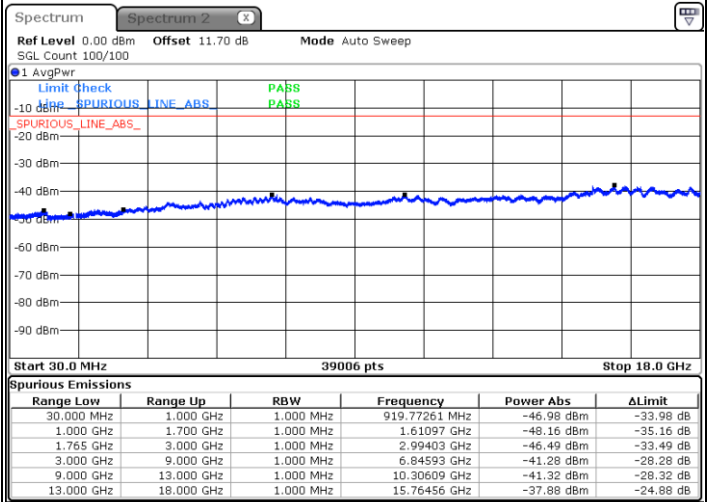
LTE Band 4 / 20MHz

Middle Channel / QPSK



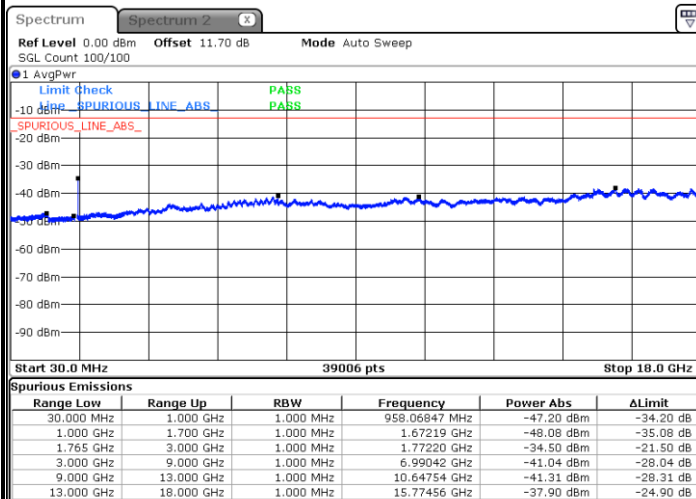
Date: 12 SEP. 2017 14:56:18

Middle Channel / 16QAM



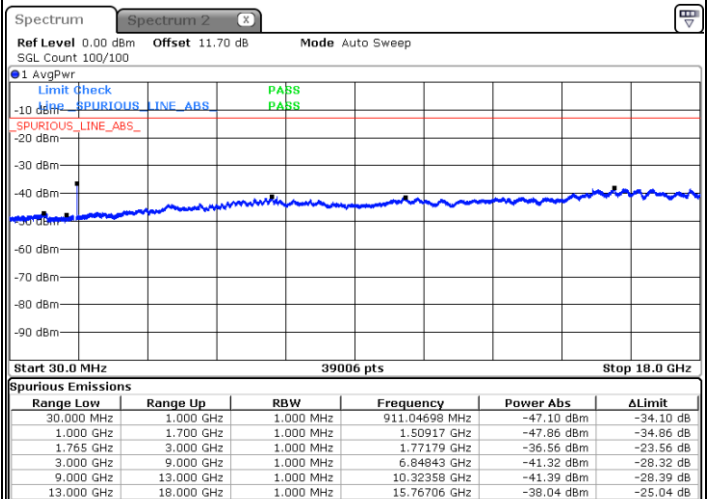
Date: 12 SEP. 2017 14:57:12

Highest Channel / QPSK



Date: 12 SEP. 2017 15:03:21

Highest Channel / 16QAM

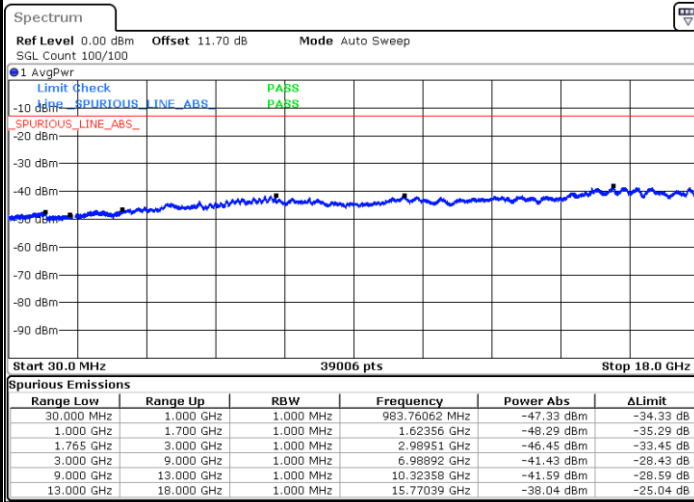


Date: 12 SEP. 2017 15:04:15



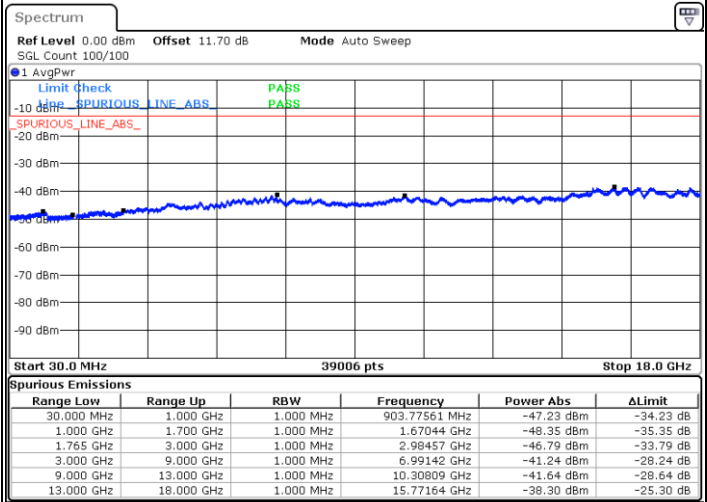
LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM



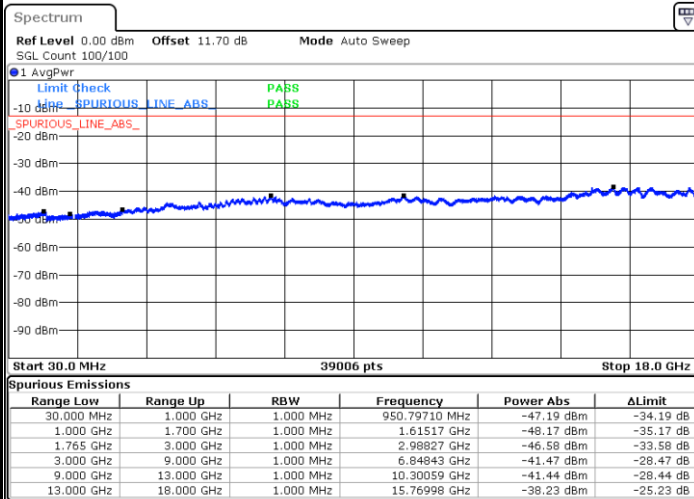
Date: 28 SEP.2017 21:24:37

Middle Channel / 64QAM



Date: 28 SEP.2017 21:25:51

Highest Channel / 64QAM

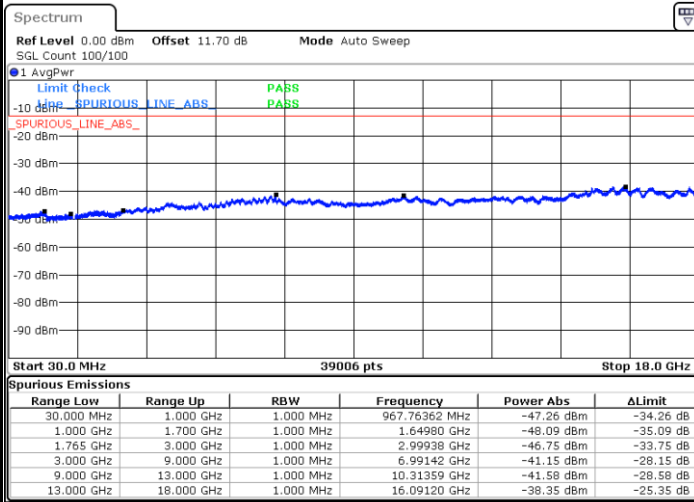


Date: 28 SEP.2017 21:29:23



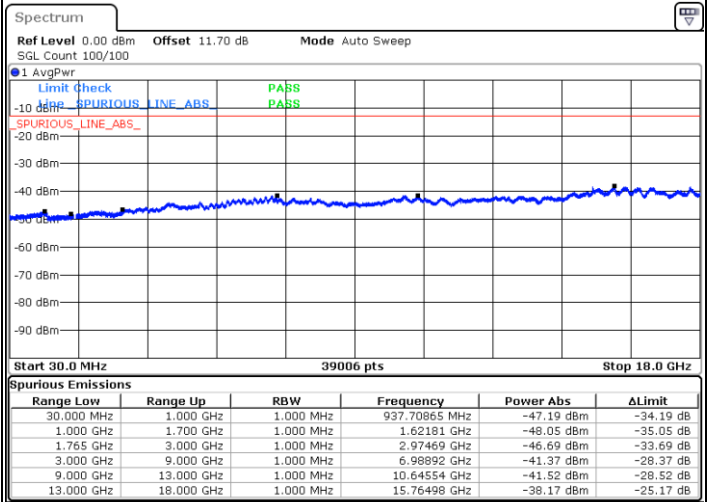
LTE Band 4 / 3MHz

Lowest Channel / 64QAM



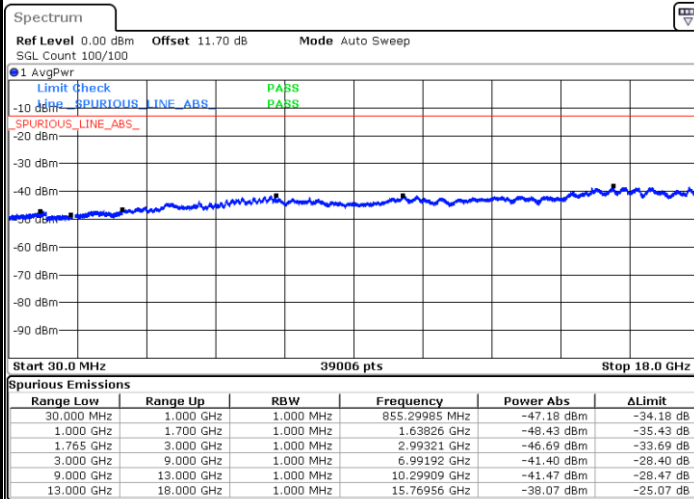
Date: 28 SEP. 2017 20:43:12

Middle Channel / 64QAM



Date: 28 SEP. 2017 20:44:27

Highest Channel / 64QAM

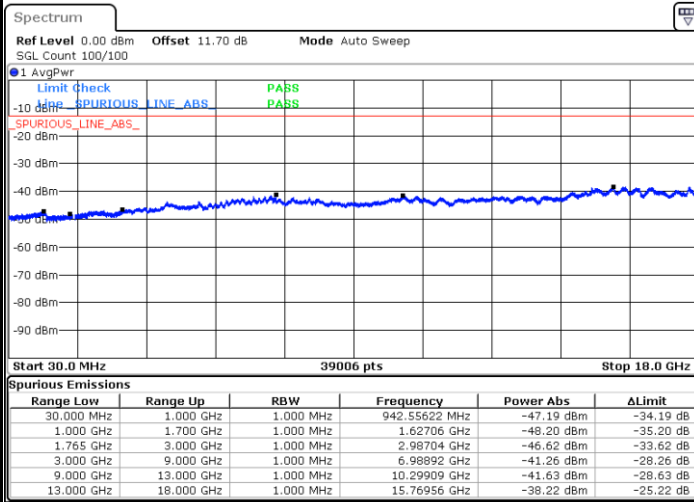


Date: 28 SEP. 2017 20:47:58



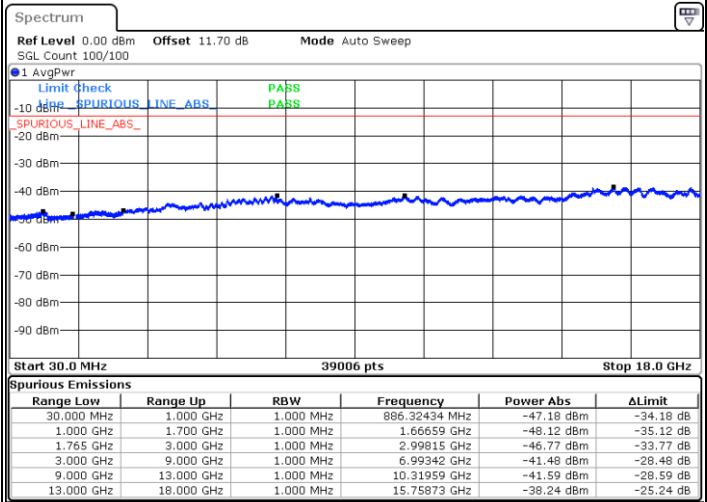
LTE Band 4 / 5MHz

Lowest Channel / 64QAM



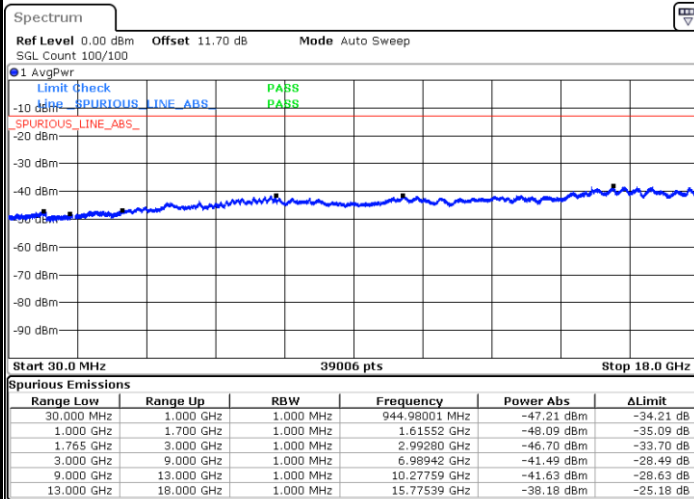
Date: 28 SEP.2017 20:51:29

Middle Channel / 64QAM



Date: 28 SEP.2017 20:52:43

Highest Channel / 64QAM

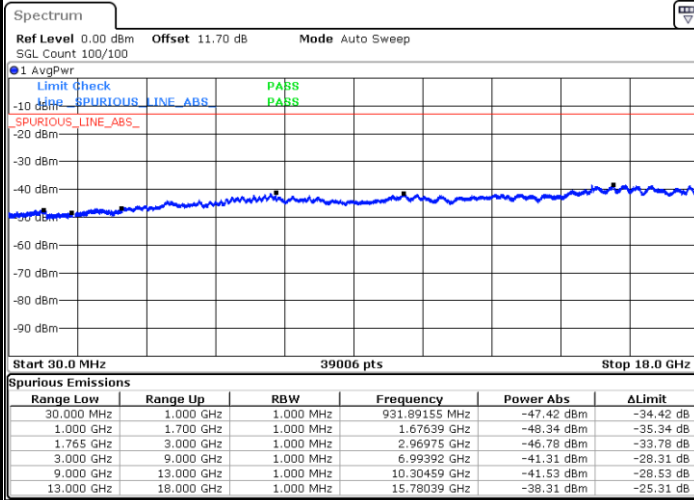


Date: 28 SEP.2017 20:56:15



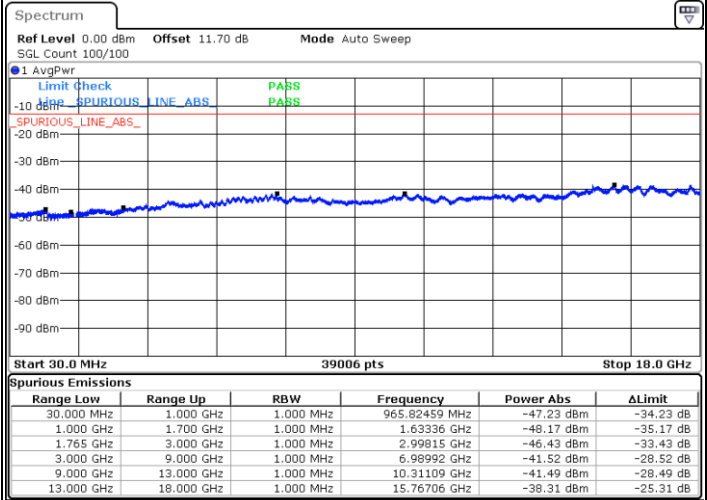
LTE Band 4 / 10MHz

Lowest Channel / 64QAM



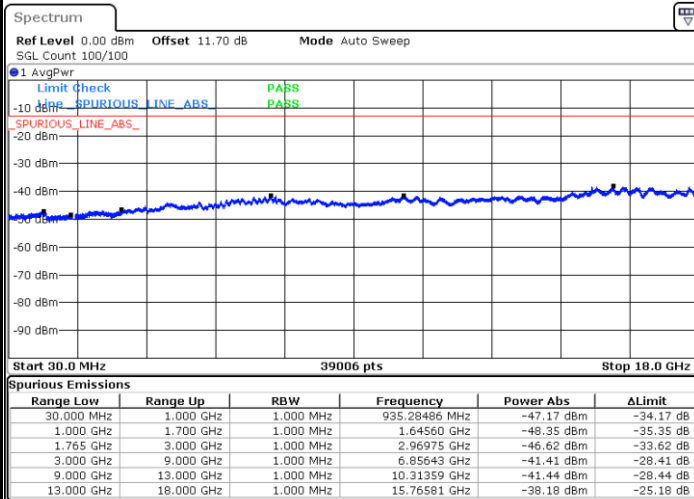
Date: 28 SEP.2017 20:59:46

Middle Channel / 64QAM



Date: 28 SEP.2017 21:01:00

Highest Channel / 64QAM

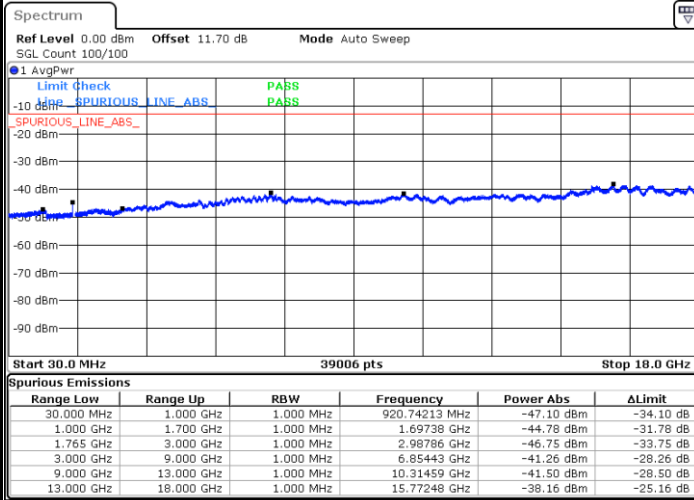


Date: 28 SEP.2017 21:04:32



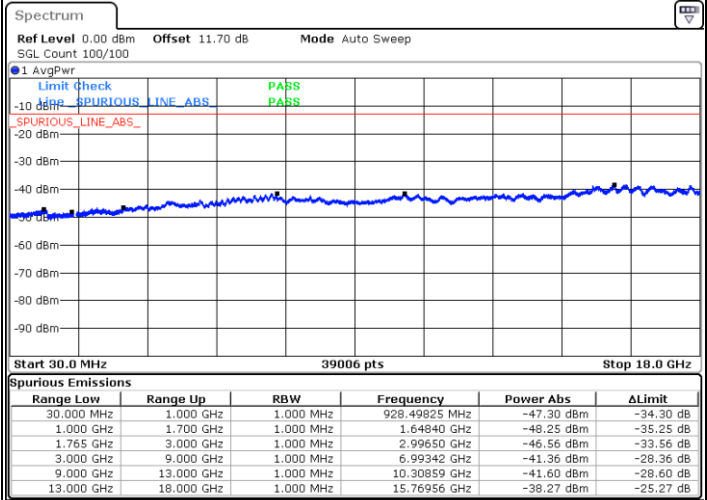
LTE Band 4 / 15MHz

Lowest Channel / 64QAM



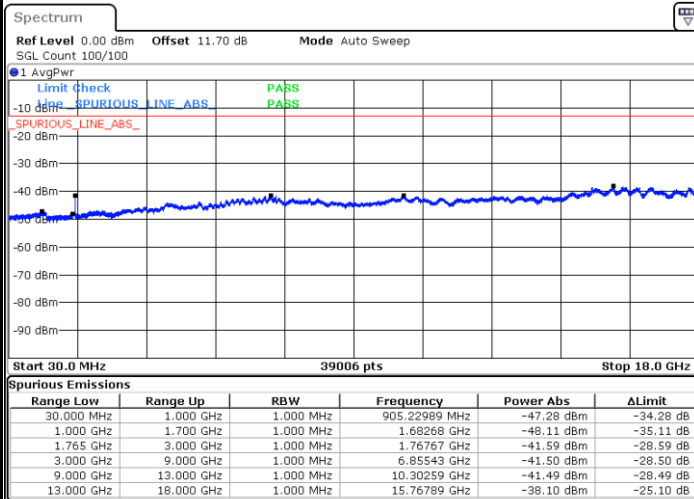
Date: 28 SEP. 2017 21:08:03

Middle Channel / 64QAM



Date: 28 SEP. 2017 21:09:17

Highest Channel / 64QAM

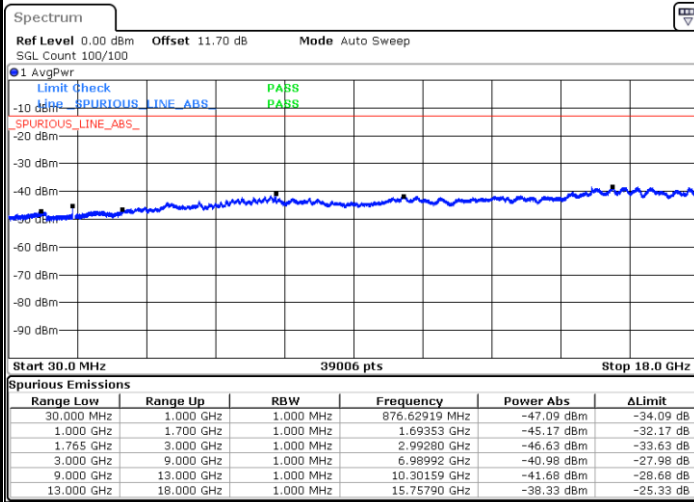


Date: 28 SEP. 2017 21:12:49



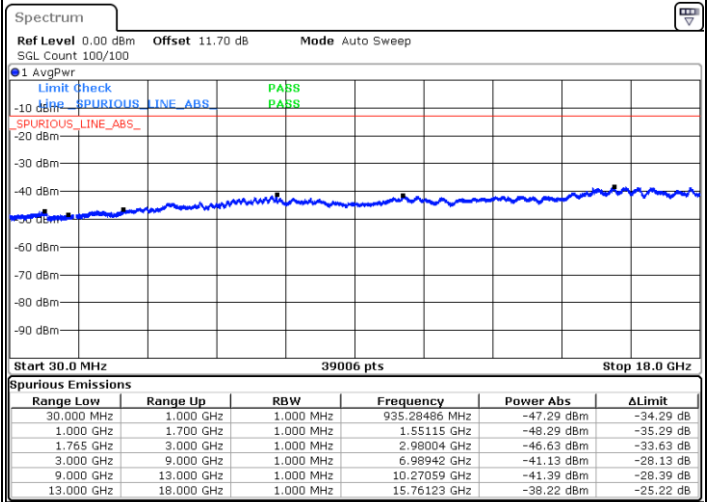
LTE Band 4 / 20MHz

Lowest Channel / 64QAM



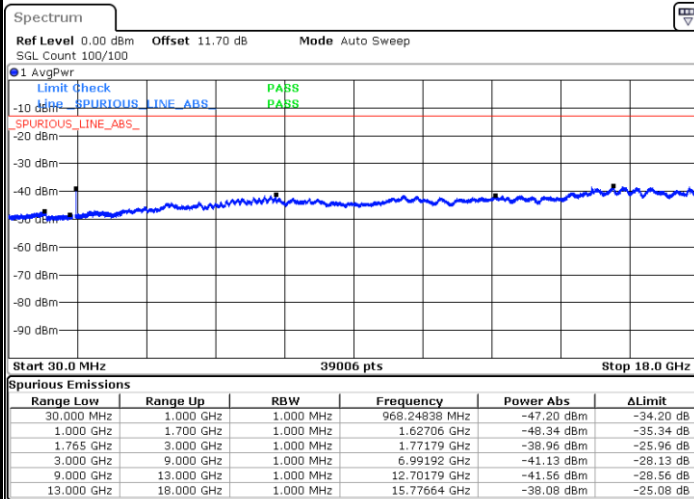
Date: 28 SEP.2017 21:16:20

Middle Channel / 64QAM



Date: 28 SEP.2017 21:17:34

Highest Channel / 64QAM



Date: 28 SEP.2017 21:21:06

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0098	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0081	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

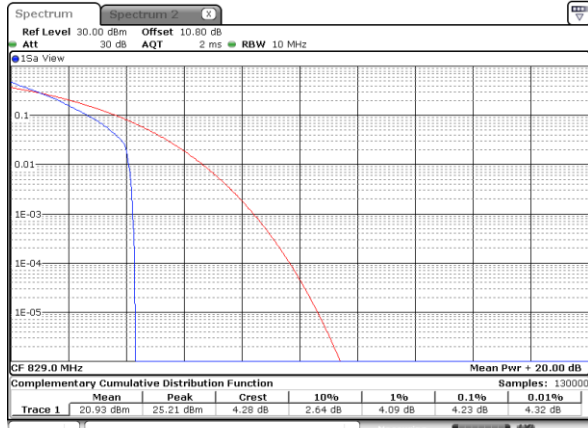
Note:

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.

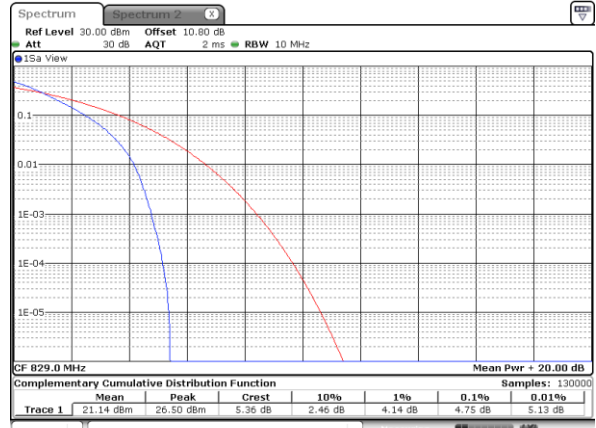
LTE Band 5

Peak-to-Average Ratio

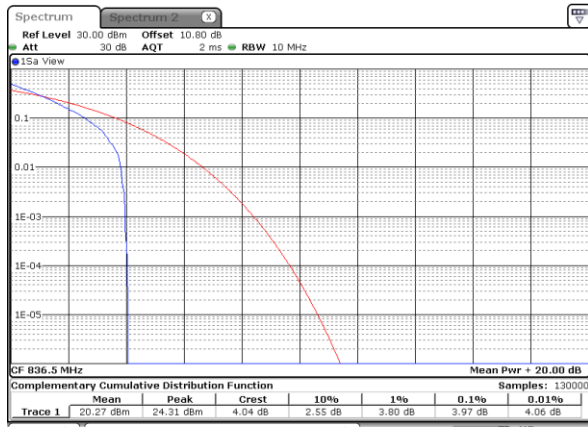
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.23	4.75	5.3	5.68	PASS
Middle CH	3.97	5.1	4.78	6	
Highest CH	4.49	4.96	5.33	5.94	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.26	6.17	-	-	PASS
Middle CH	5.65	6.67	-	-	
Highest CH	6.55	6.46	-	-	

LTE Band 5 / 10MHz / QPSK
Lowest Channel / 1RB


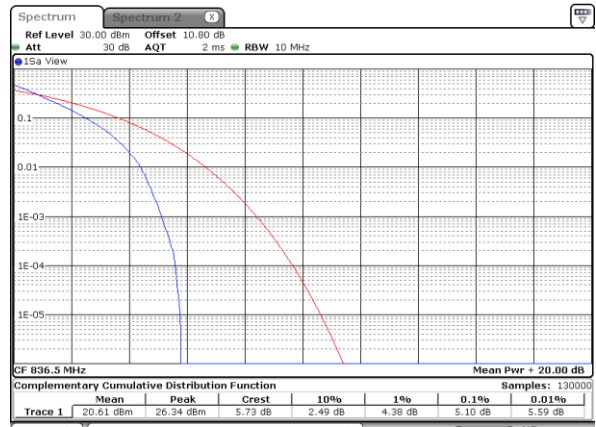
Date: 12 SEP 2017 17:43:54

Lowest Channel / Full RB


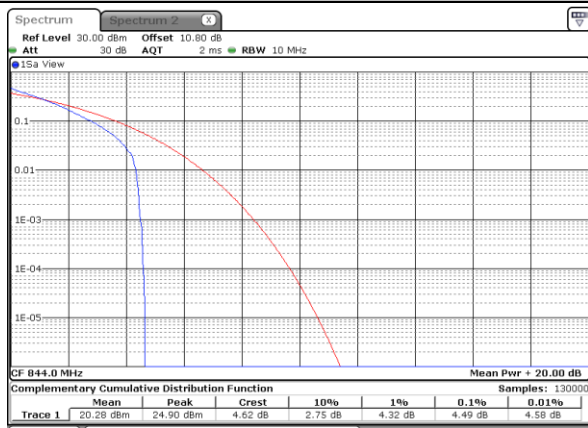
Date: 12 SEP 2017 17:44:03

Middle Channel / 1RB


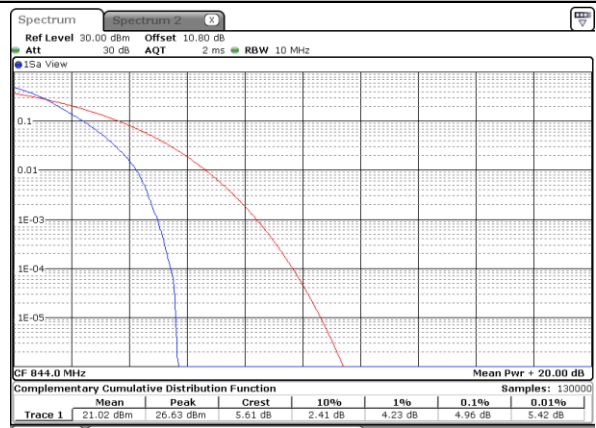
Date: 12 SEP 2017 17:44:12

Middle Channel / Full RB


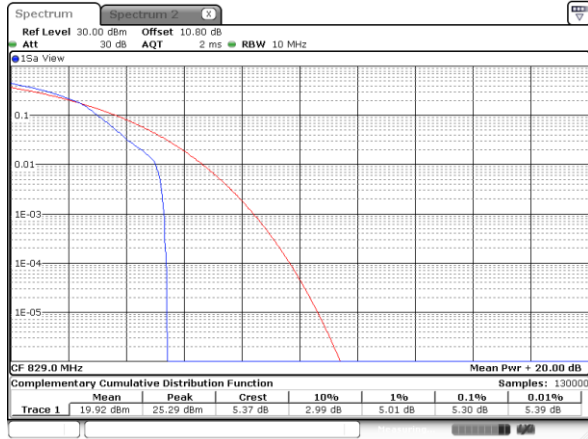
Date: 12 SEP 2017 17:44:21

Highest Channel / 1RB


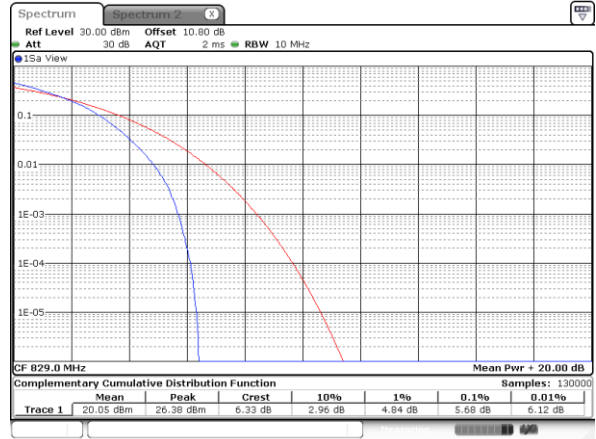
Date: 12 SEP 2017 17:44:30

Highest Channel / Full RB


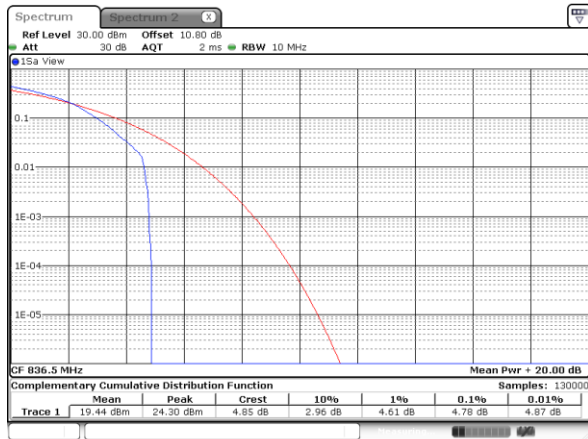
Date: 12 SEP 2017 17:44:41

LTE Band 5 / 10MHz / 16QAM
Lowest Channel / 1RB


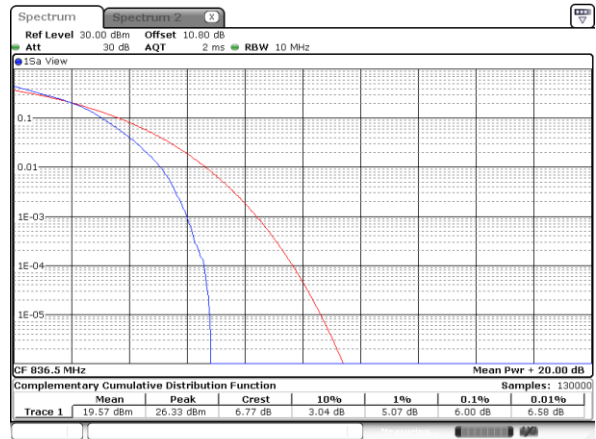
Date: 12 SEP 2017 17:42:28

Lowest Channel / Full RB


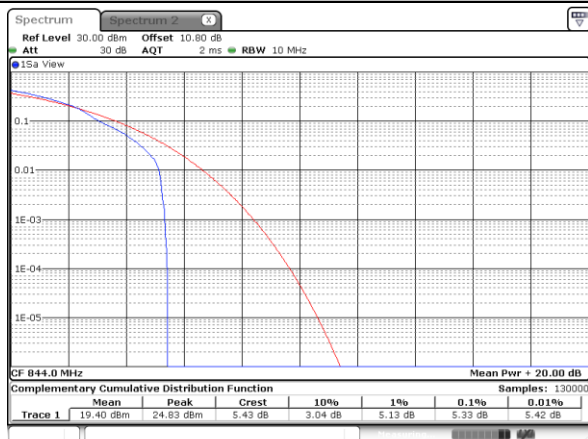
Date: 12 SEP 2017 17:42:49

Middle Channel / 1RB


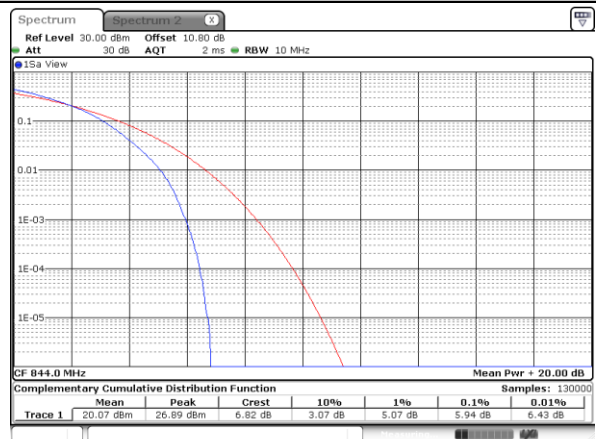
Date: 12 SEP 2017 17:42:59

Middle Channel / Full RB


Date: 12 SEP 2017 17:43:17

Highest Channel / 1RB


Date: 12 SEP 2017 17:43:30

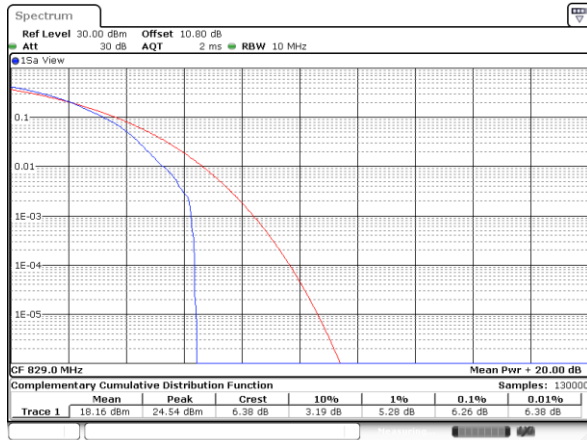
Highest Channel / Full RB


Date: 12 SEP 2017 17:43:40

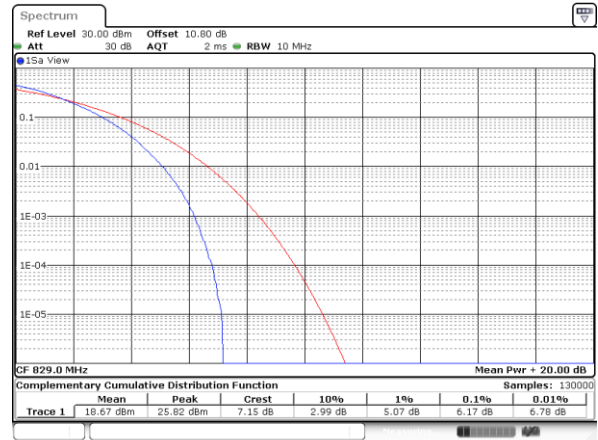


LTE Band 5 / 10MHz / 64QAM

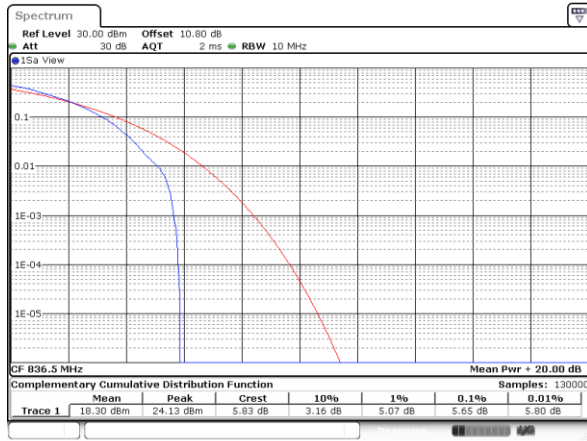
Lowest Channel / 1RB



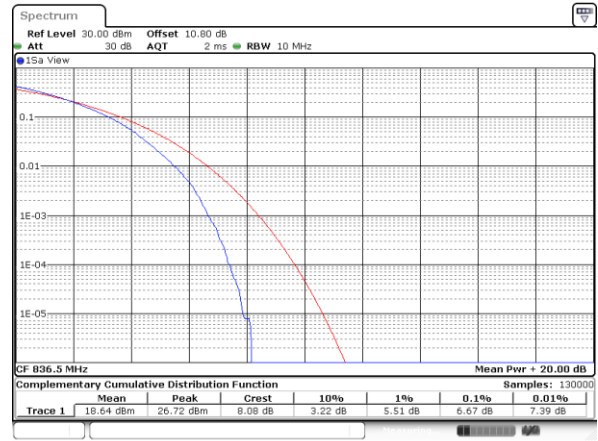
Lowest Channel / Full RB



Middle Channel / 1RB



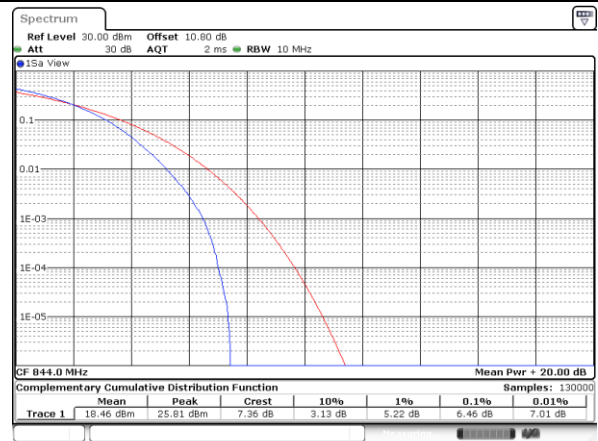
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



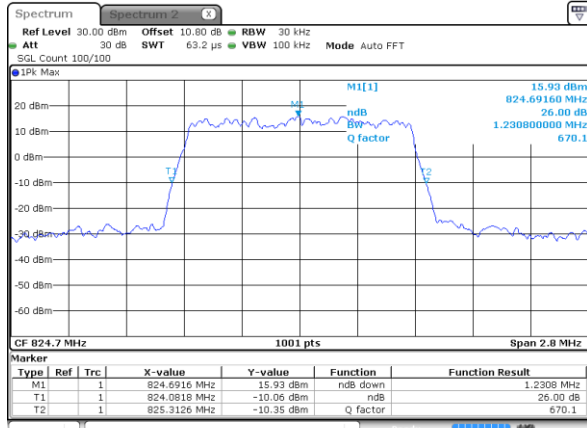
**26dB Bandwidth**

Mode	LTE Band 5 : 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	1.23	1.23	3.02	3.05	4.84	4.88	9.65	9.63	-	-	-	-
Middle CH	1.23	1.23	3.04	3.03	4.89	4.89	9.79	9.73	-	-	-	-
Highest CH	1.22	1.23	3.03	3.00	4.90	4.92	9.73	9.79	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.05	-	4.83	-	9.85	-	-	-	-	-
Middle CH	1.23	-	3.01	-	4.87	-	9.83	-	-	-	-	-
Highest CH	1.22	-	2.99	-	4.88	-	9.77	-	-	-	-	-

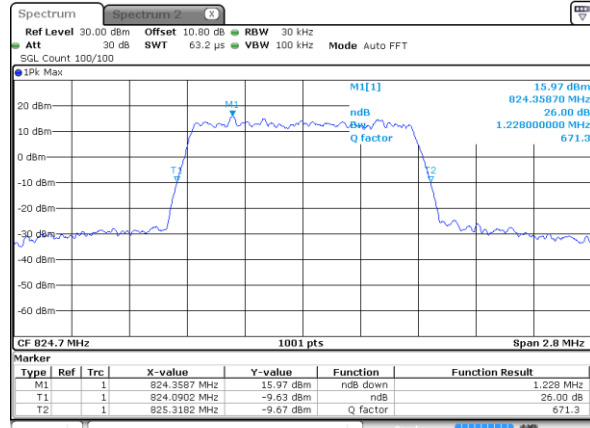


LTE Band 5

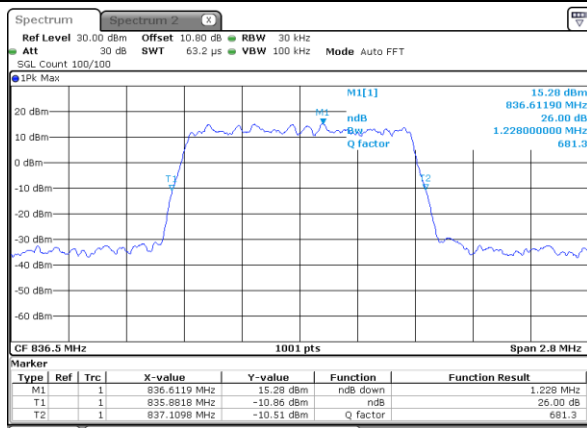
Lowest Channel / 1.4MHz / QPSK



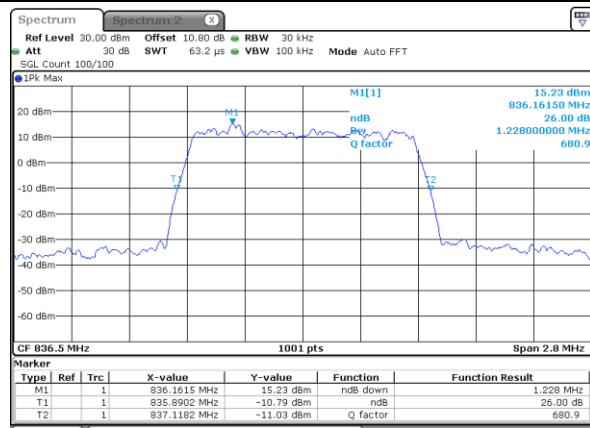
Lowest Channel / 1.4MHz / 16QAM



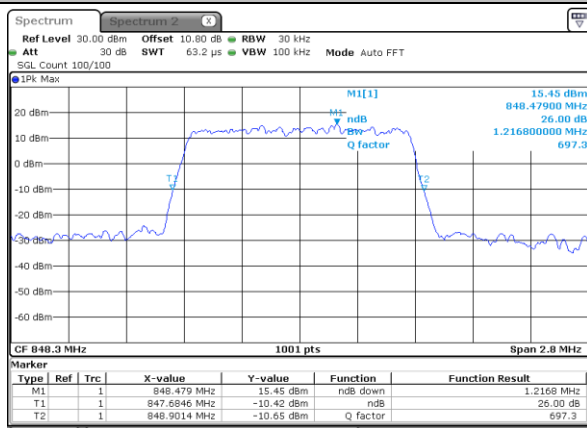
Middle Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



Highest Channel / 1.4MHz / 16QAM

