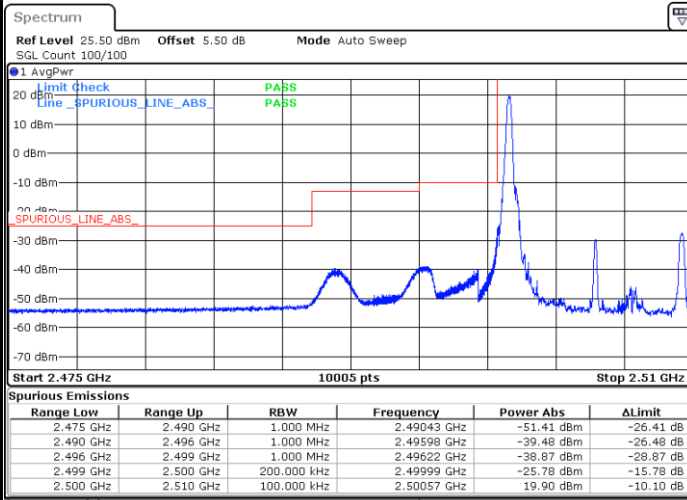




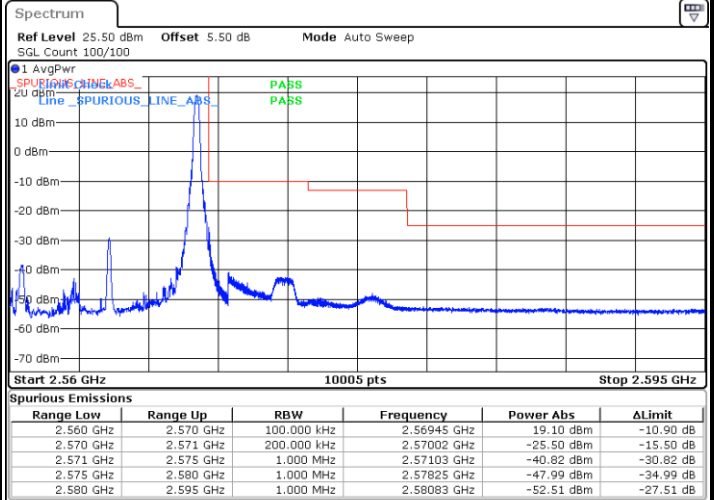
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



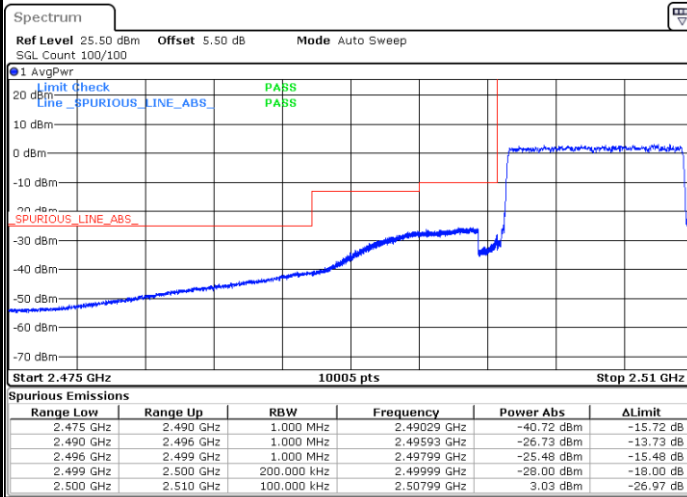
Date: 30.SEP.2018 11:18:13

Highest Band Edge / 1 RB



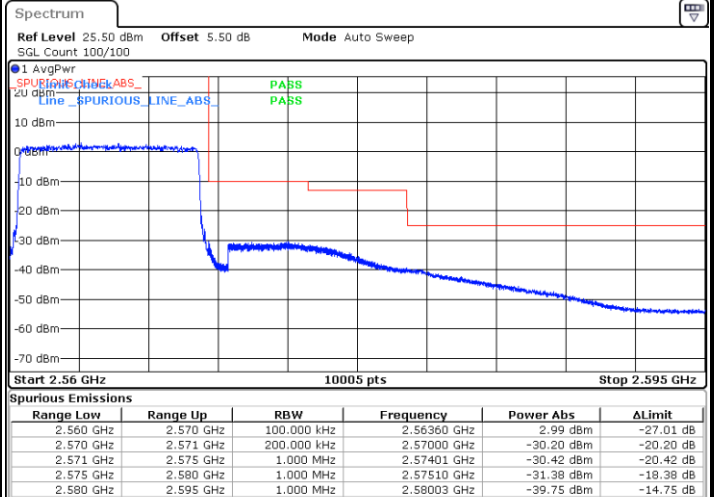
Date: 30.SEP.2018 10:07:06

Lowest Band Edge / Full RB



Date: 30.SEP.2018 11:17:25

Highest Band Edge / Full RB

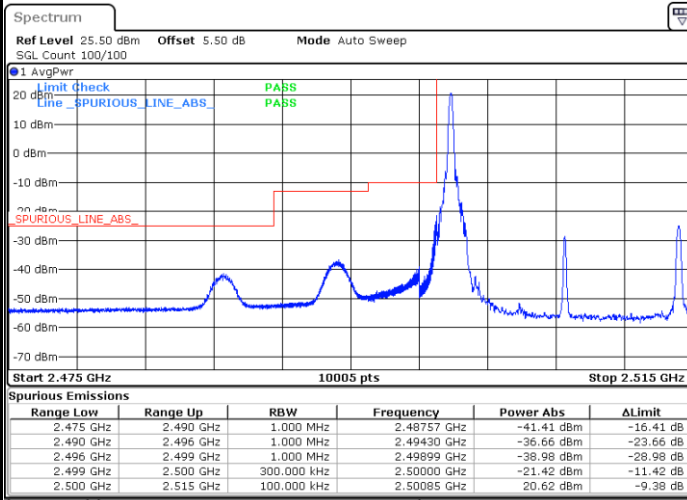


Date: 30.SEP.2018 10:05:58



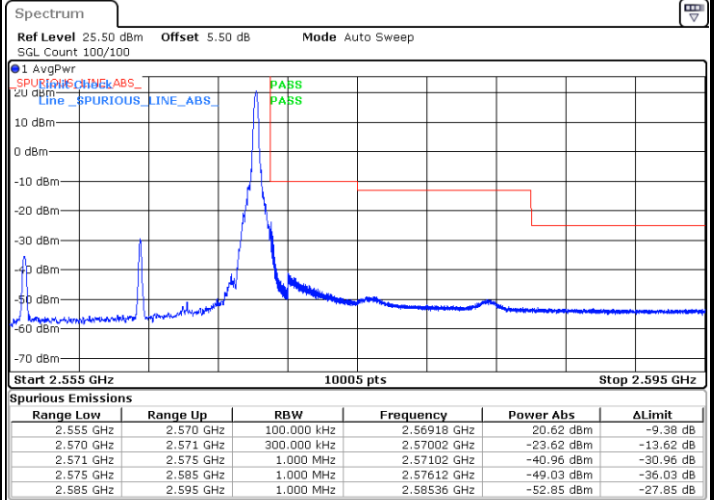
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



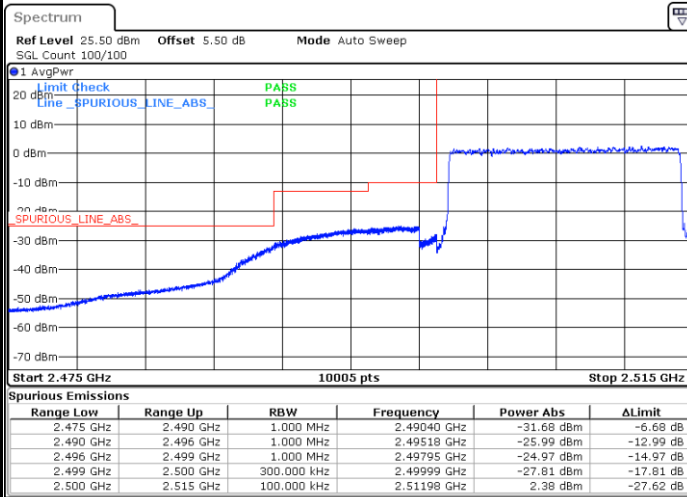
Date: 30.SEP.2018 11:18:52

Highest Band Edge / 1 RB



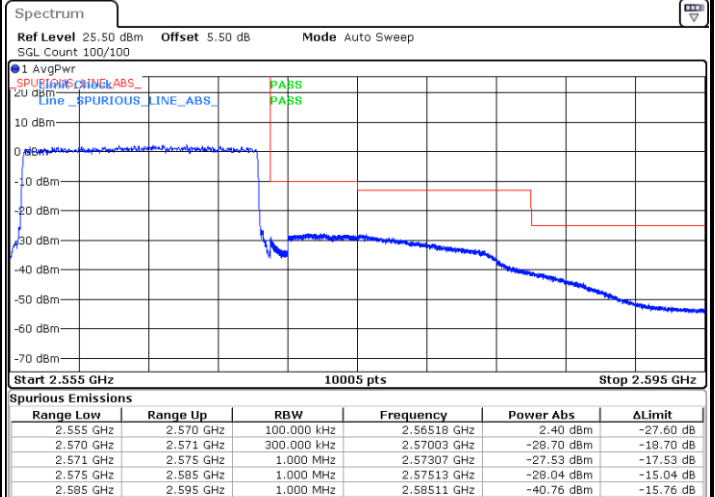
Date: 30.SEP.2018 10:20:07

Lowest Band Edge / Full RB



Date: 30.SEP.2018 11:20:28

Highest Band Edge / Full RB

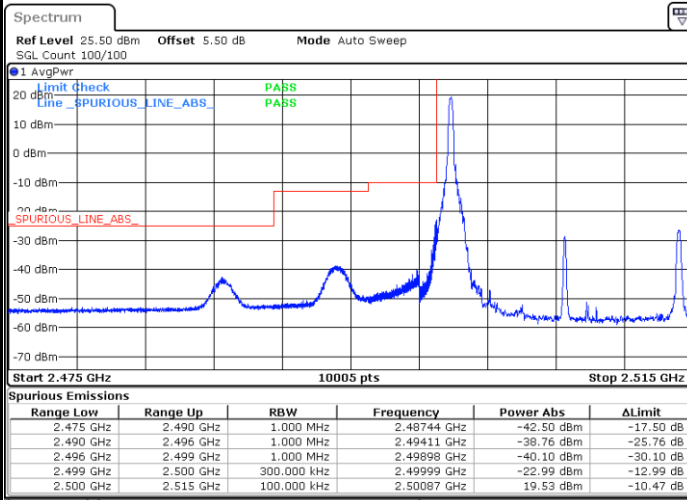


Date: 30.SEP.2018 10:16:43



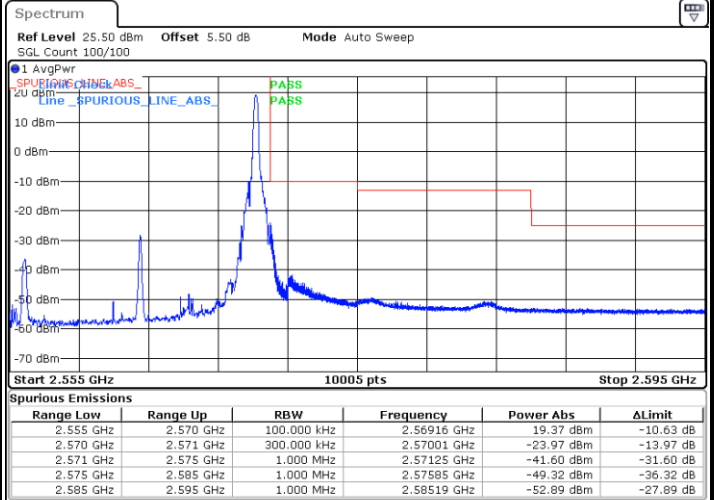
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



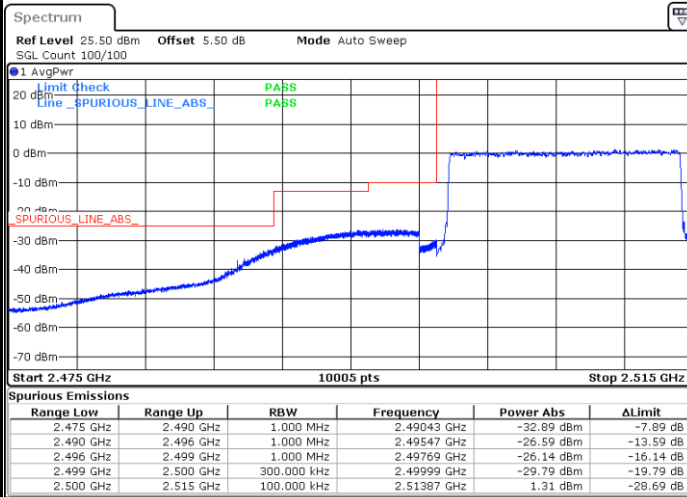
Date: 30.SEP.2018 11:19:07

Highest Band Edge / 1 RB



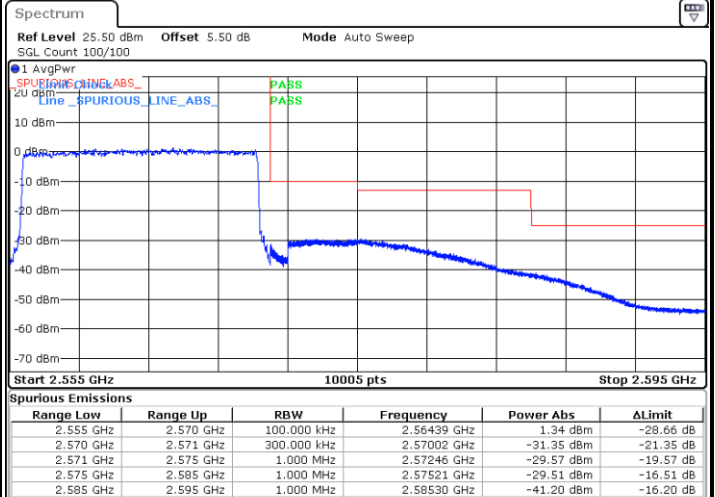
Date: 30.SEP.2018 10:18:59

Lowest Band Edge / Full RB



Date: 30.SEP.2018 11:20:13

Highest Band Edge / Full RB

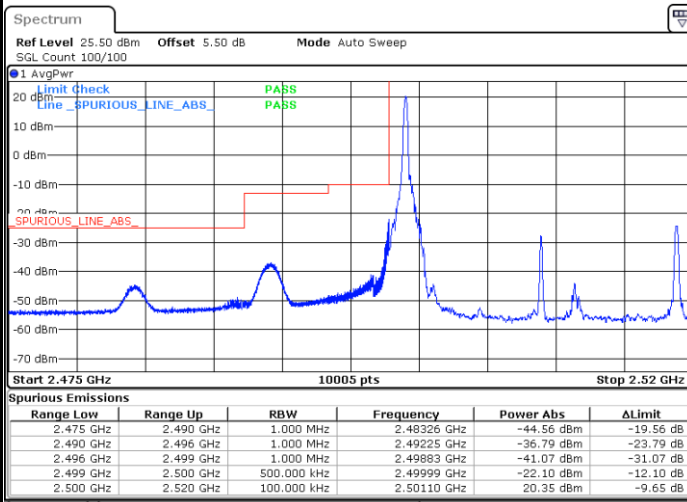


Date: 30.SEP.2018 10:17:51



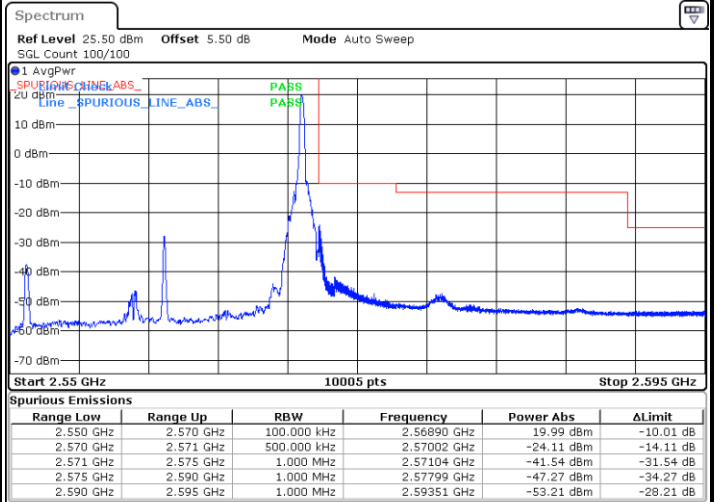
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



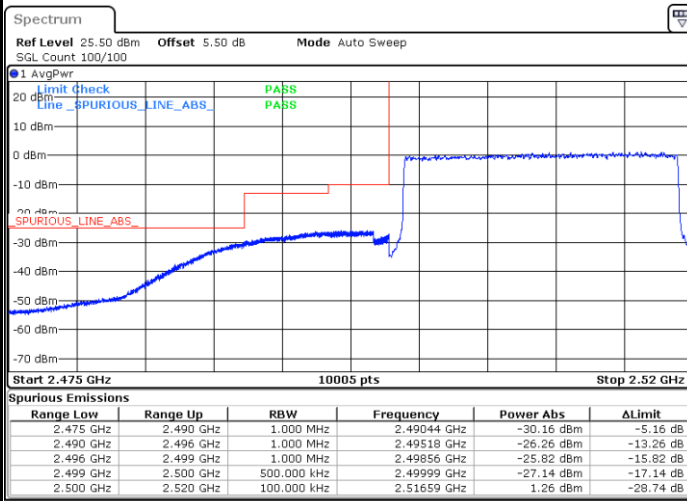
Date: 30.SEP.2018 11:22:07

Highest Band Edge / 1 RB



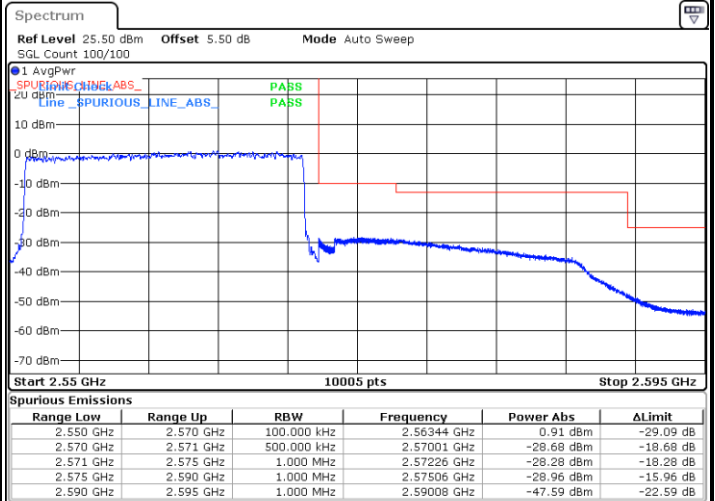
Date: 30.SEP.2018 10:32:00

Lowest Band Edge / Full RB



Date: 30.SEP.2018 11:20:47

Highest Band Edge / Full RB

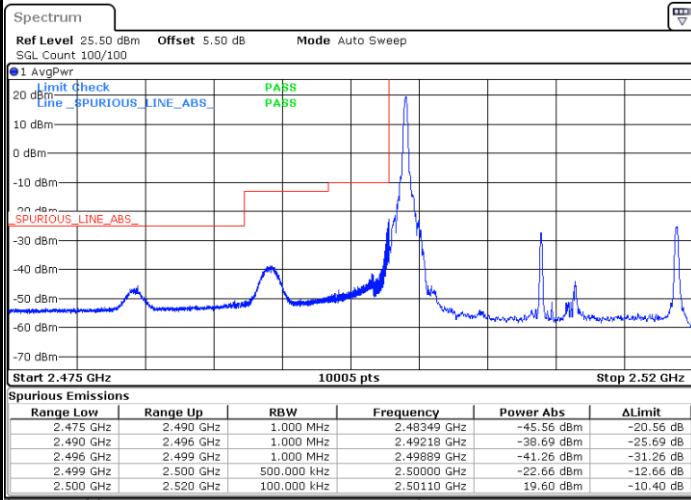


Date: 30.SEP.2018 10:28:37



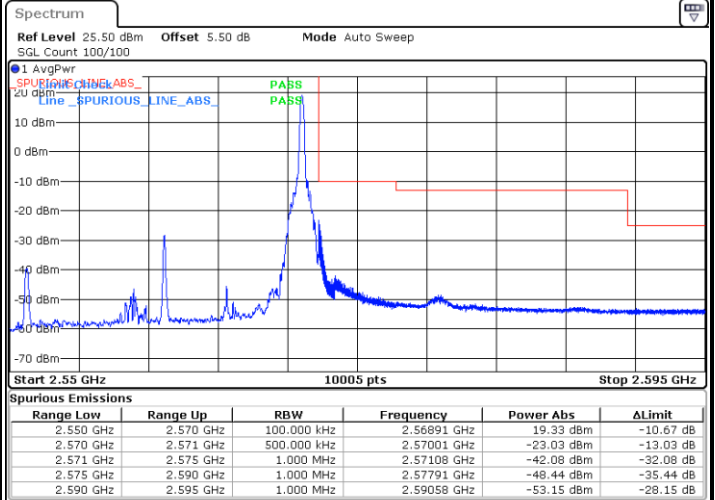
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



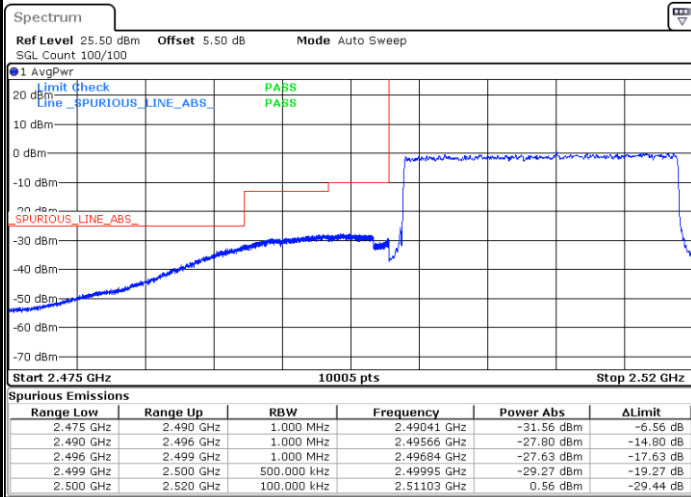
Date: 30.SEP.2018 11:21:51

Highest Band Edge / 1RB



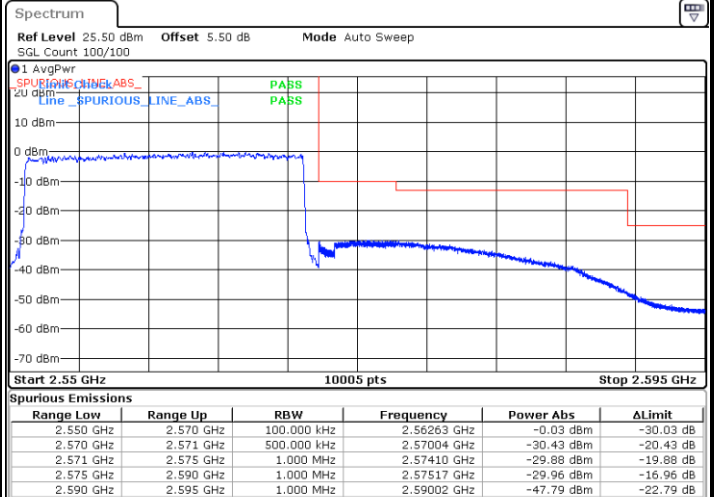
Date: 30.SEP.2018 10:30:52

Lowest Band Edge / Full RB



Date: 30.SEP.2018 11:21:01

Highest Band Edge / Full RB

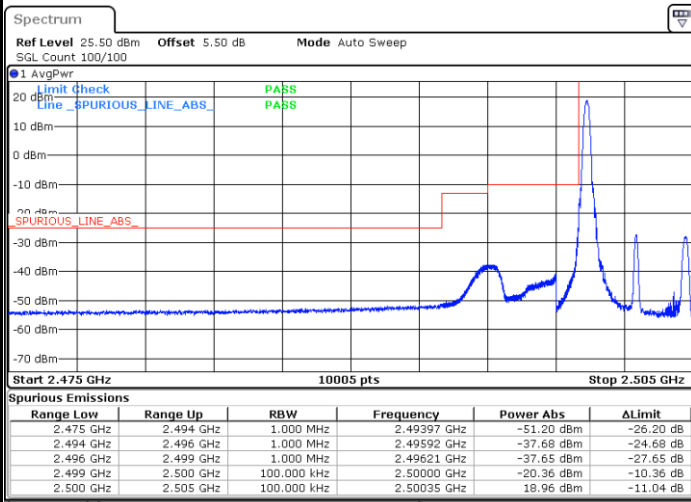


Date: 30.SEP.2018 10:29:44



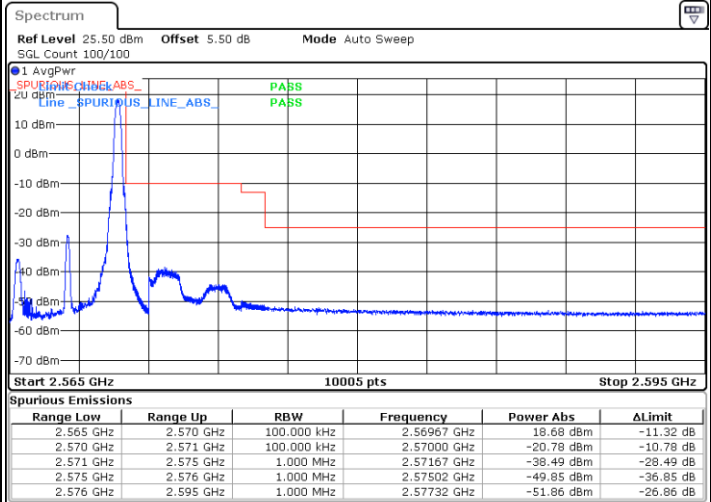
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



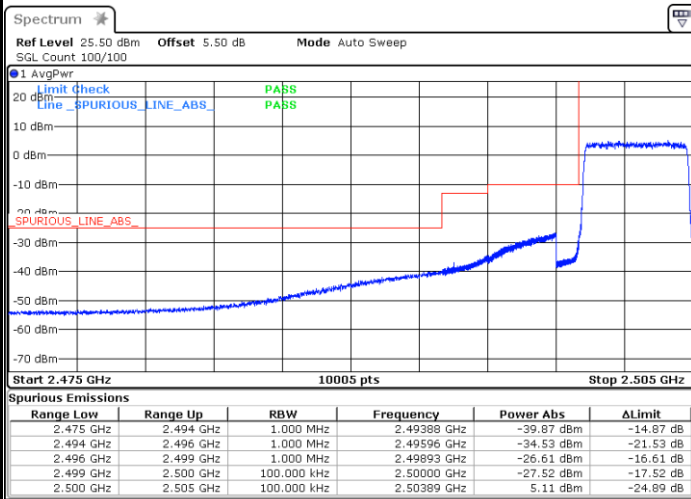
Date: 30.SEP.2018 11:15:38

Highest Band Edge / 1 RB



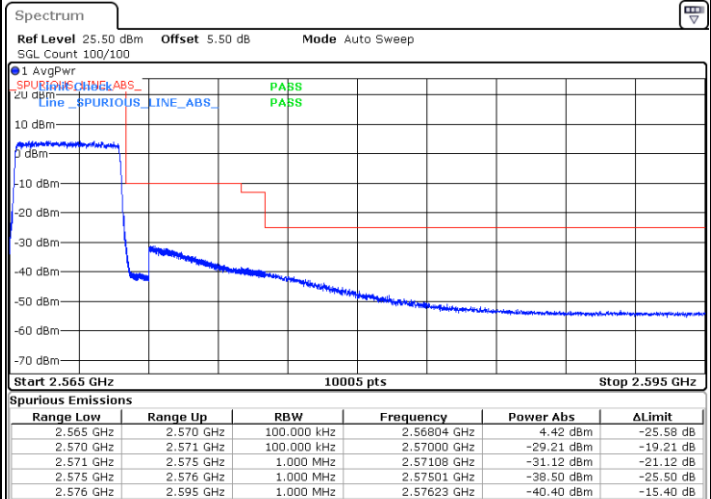
Date: 30.SEP.2018 10:44:52

Lowest Band Edge / Full RB



Date: 30.SEP.2018 11:16:15

Highest Band Edge / Full RB

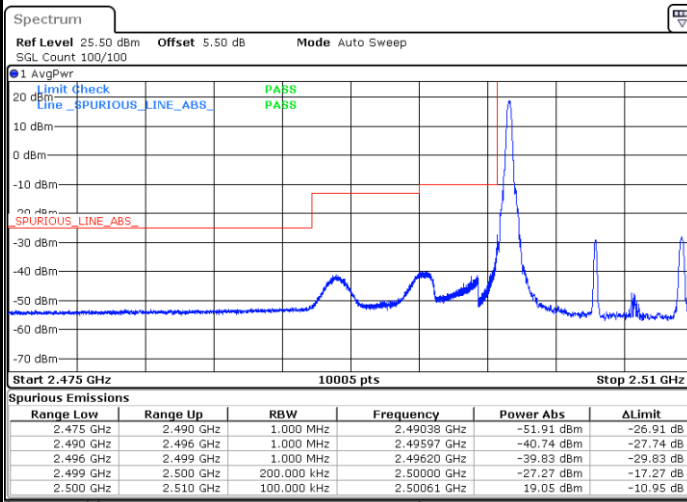


Date: 30.SEP.2018 10:46:00



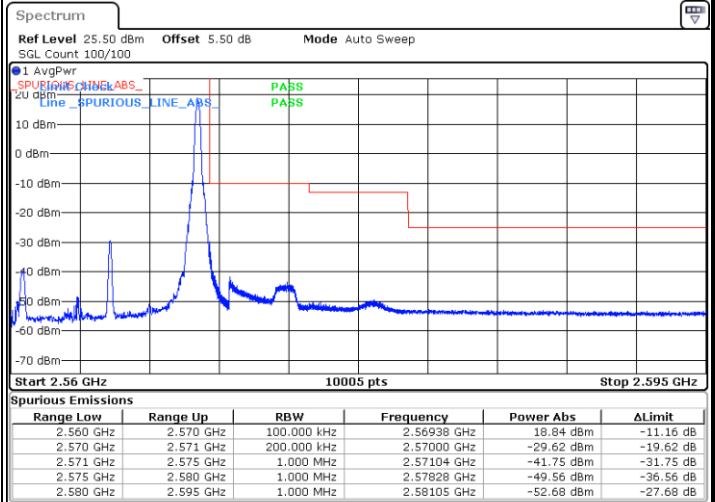
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



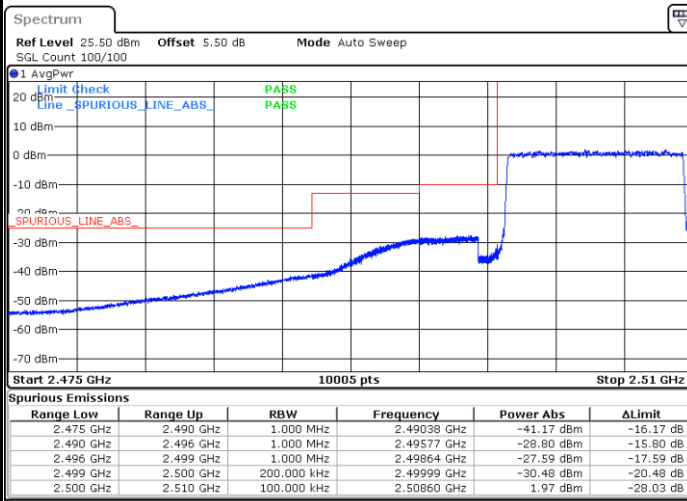
Date: 30.SEP.2018 11:17:56

Highest Band Edge / 1 RB



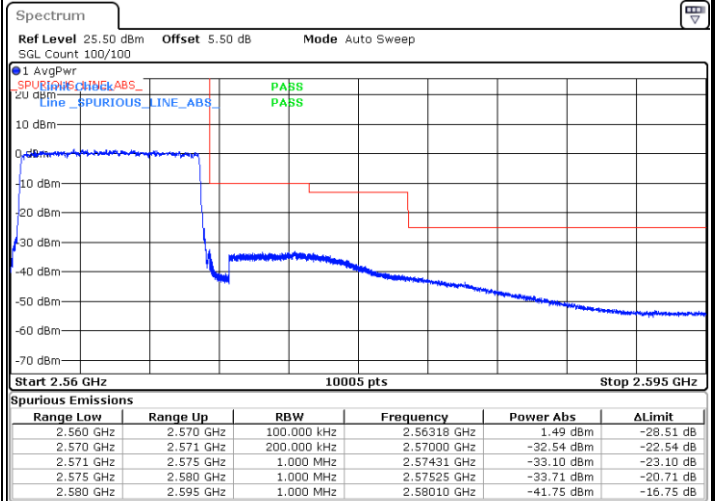
Date: 30.SEP.2018 10:50:48

Lowest Band Edge / Full RB



Date: 30.SEP.2018 11:17:40

Highest Band Edge / Full RB

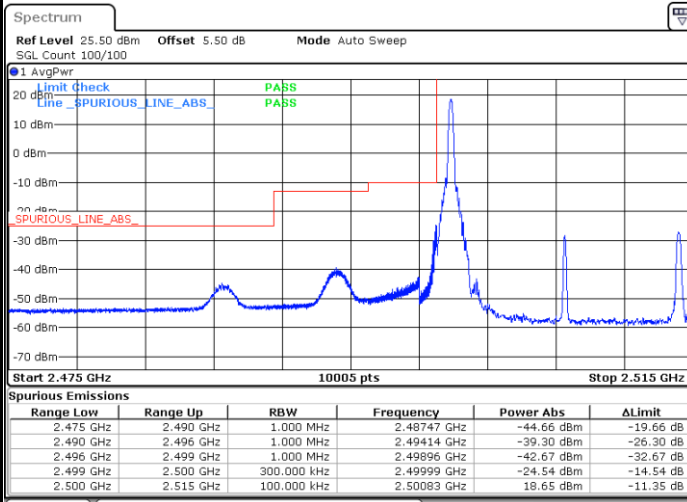


Date: 30.SEP.2018 10:51:56



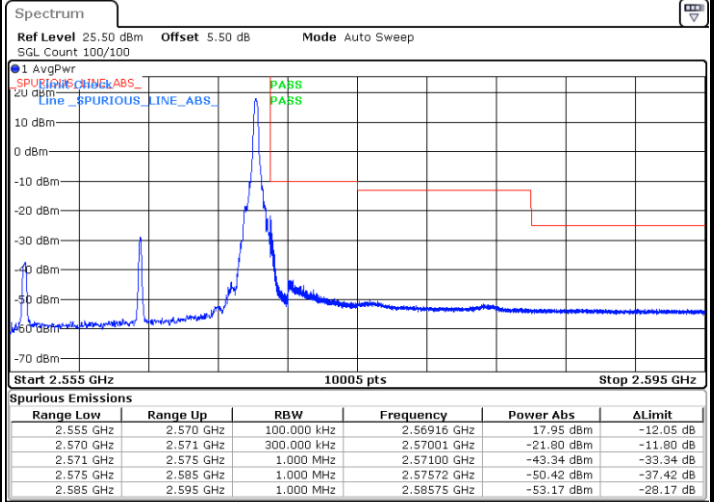
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



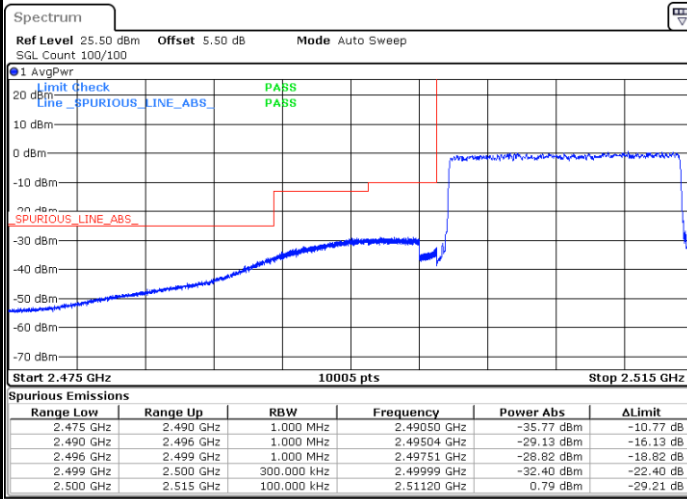
Date: 30.SEP.2018 11:19:35

Highest Band Edge / 1 RB



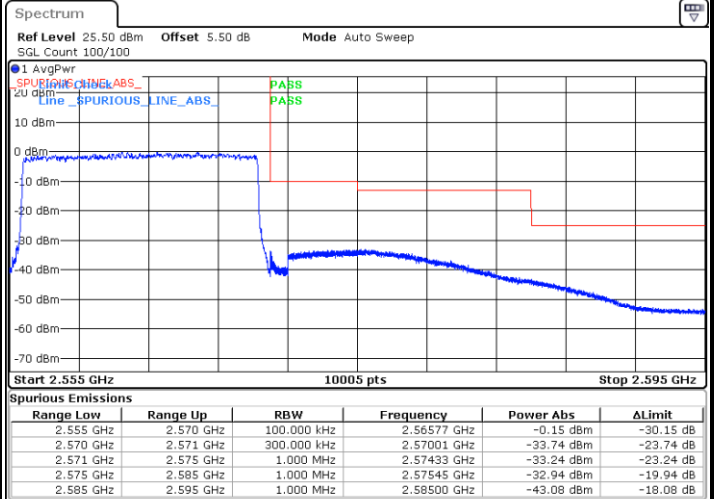
Date: 30.SEP.2018 10:55:12

Lowest Band Edge / Full RB



Date: 30.SEP.2018 11:19:58

Highest Band Edge / Full RB

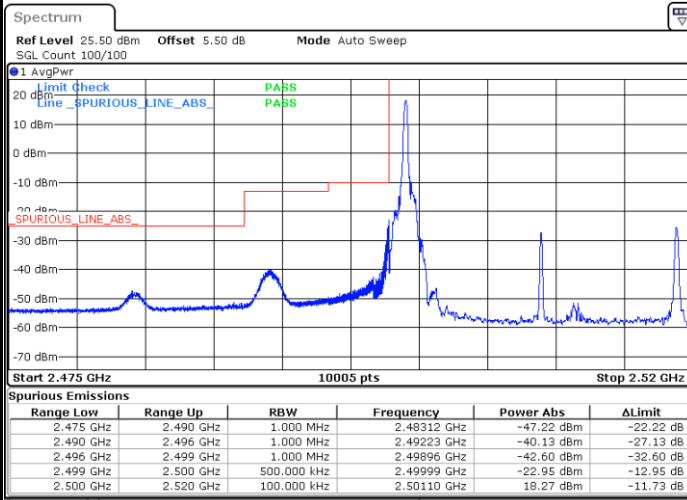


Date: 30.SEP.2018 10:54:04



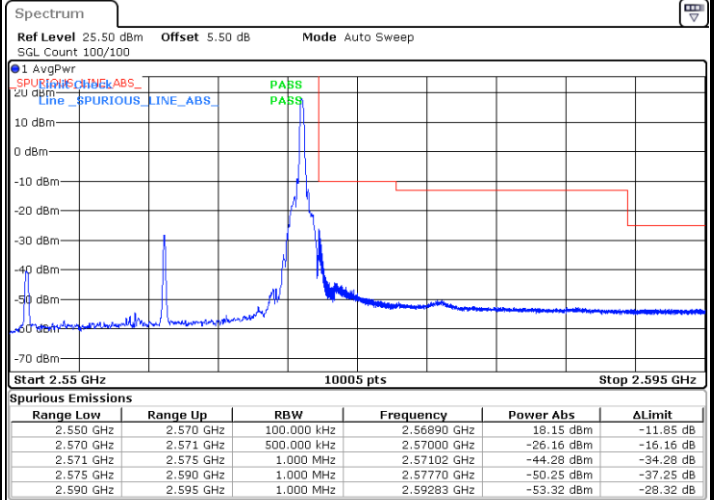
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



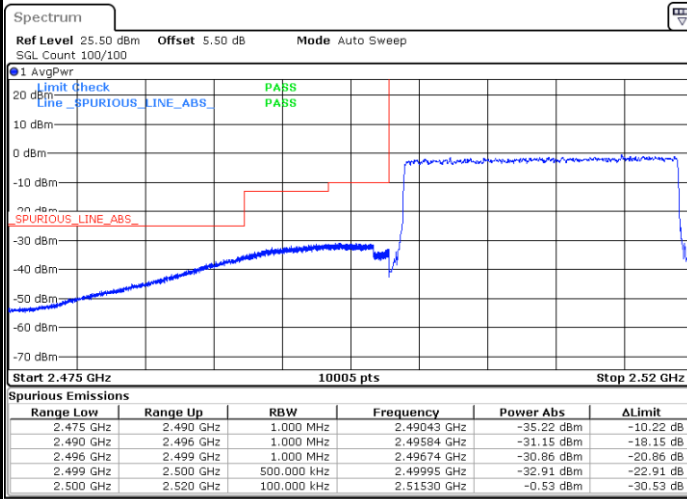
Date: 30.SEP.2018 11:21:32

Highest Band Edge / 1 RB



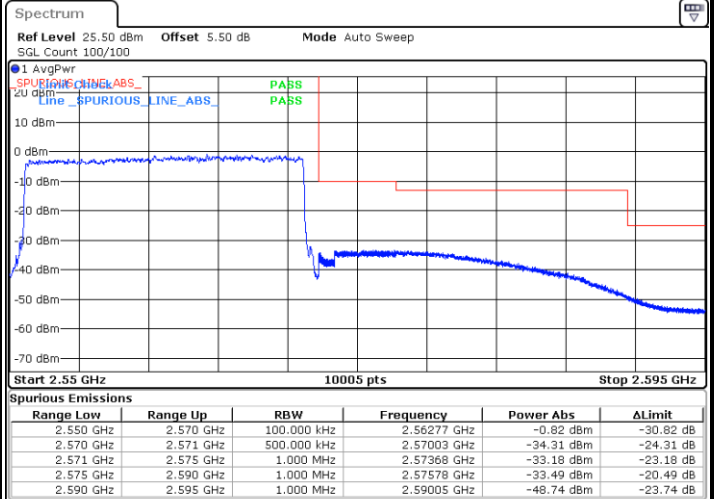
Date: 30.SEP.2018 11:01:08

Lowest Band Edge / Full RB



Date: 30.SEP.2018 11:21:16

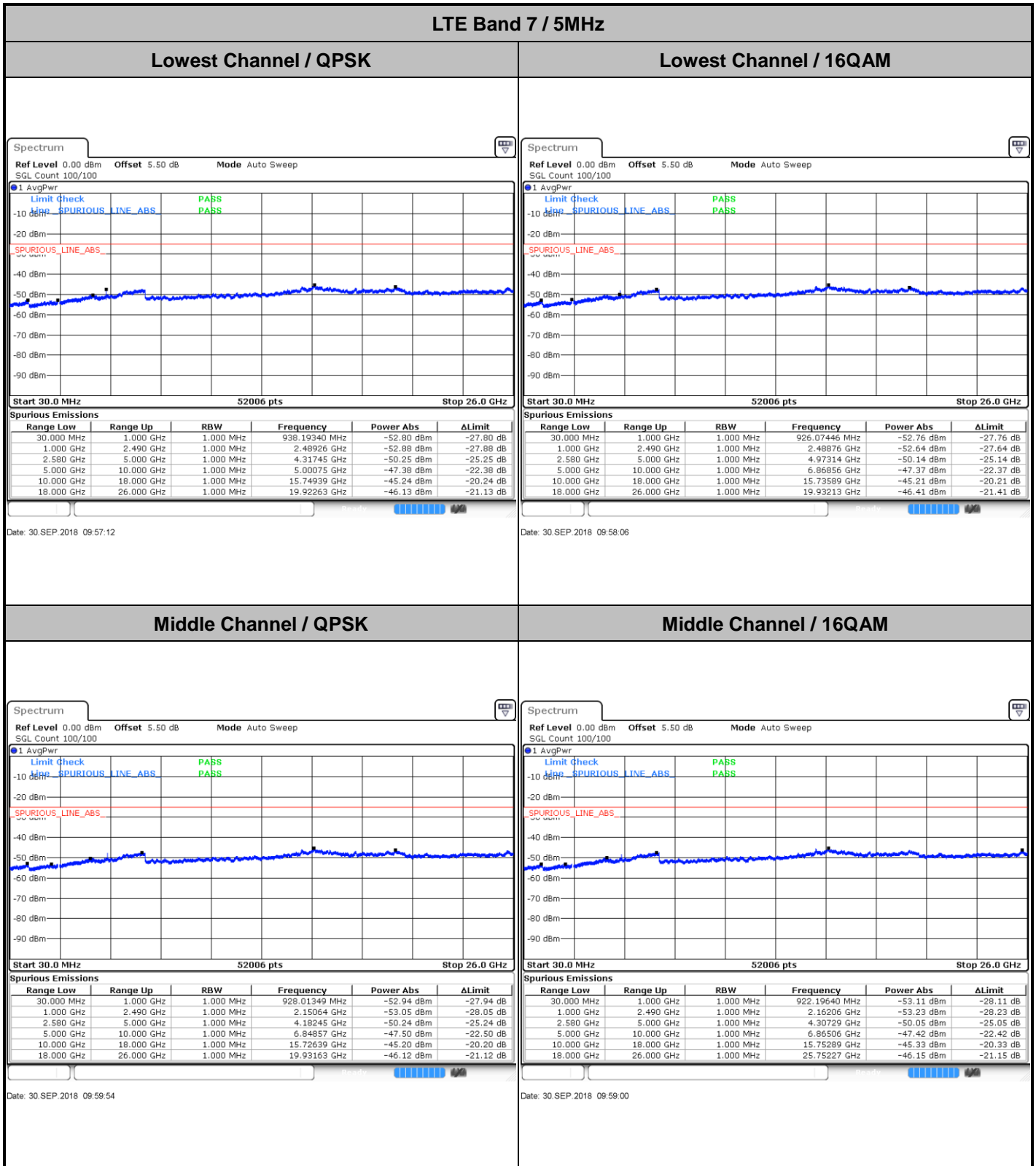
Highest Band Edge / Full RB



Date: 30.SEP.2018 11:00:00



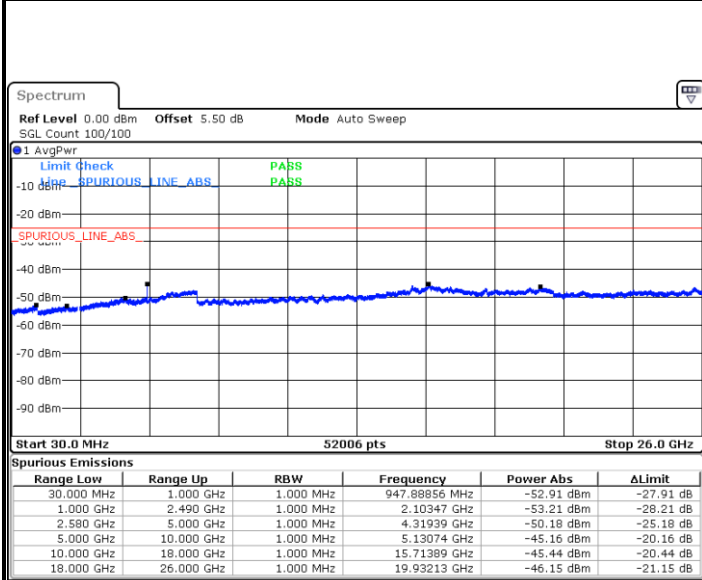
Conducted Spurious Emission





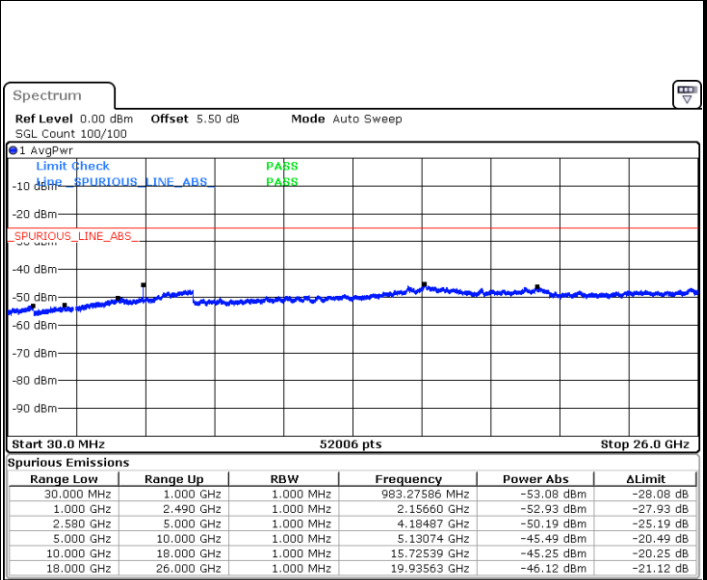
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 30.SEP.2018 10:00:48

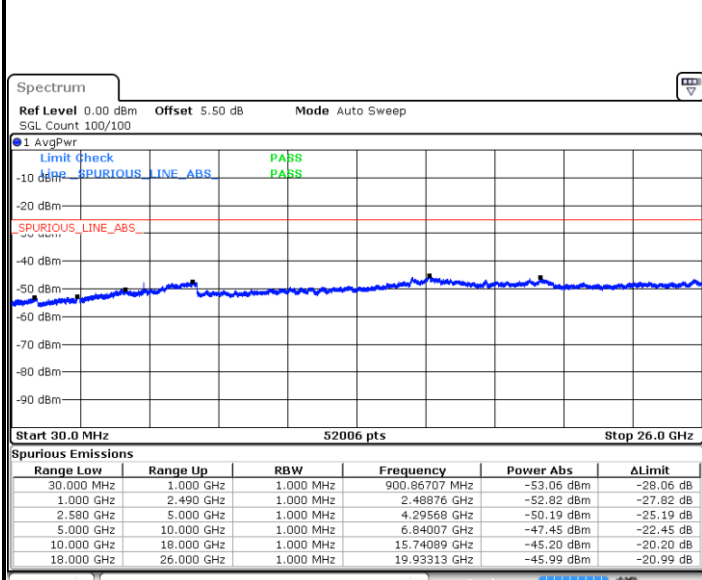
Highest Channel / 16QAM



Date: 30.SEP.2018 10:01:41

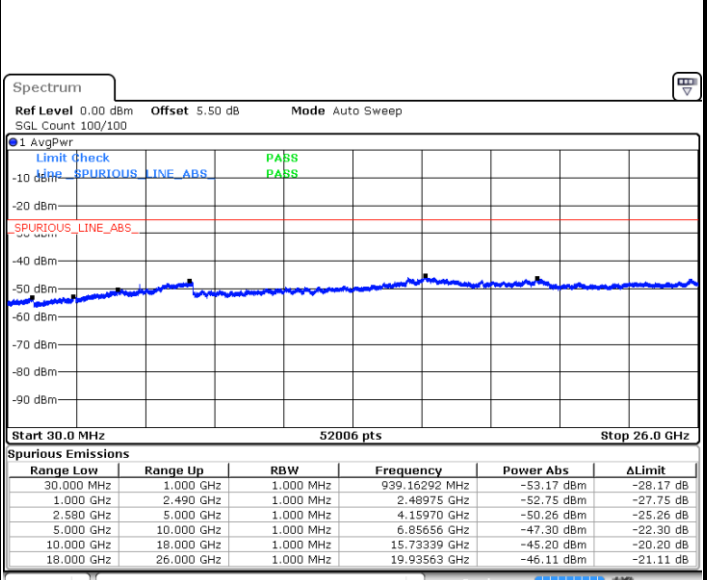
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 30.SEP.2018 10:09:06

Lowest Channel / 16QAM

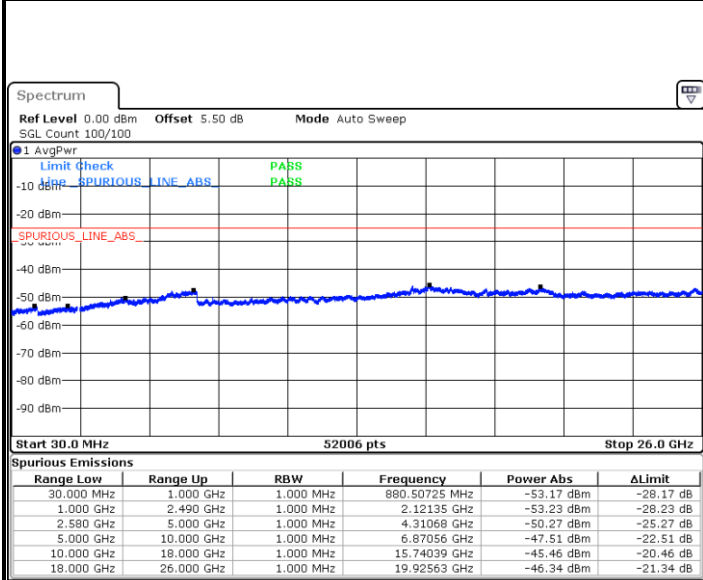


Date: 30.SEP.2018 10:10:00



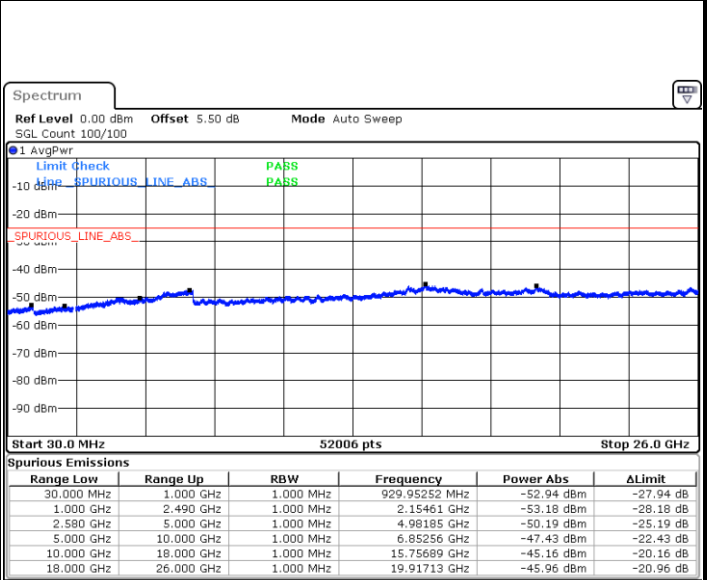
LTE Band 7 / 10MHz

Middle Channel / QPSK



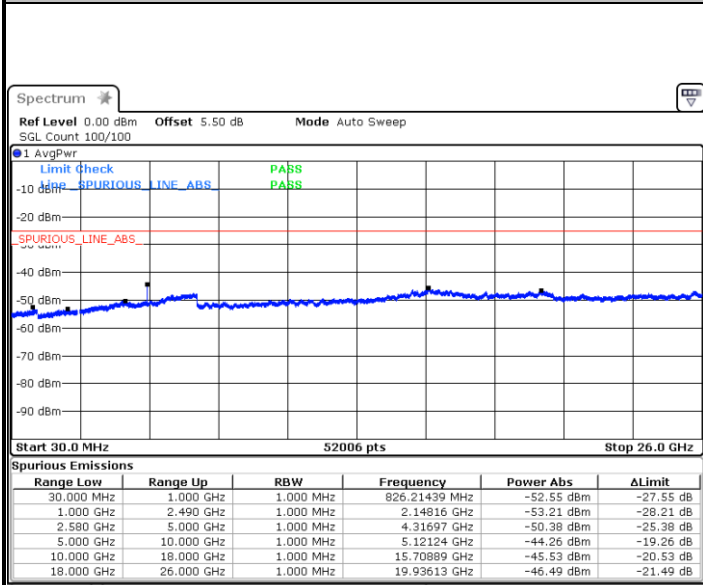
Date: 30.SEP.2018 11:38:00

Middle Channel / 16QAM



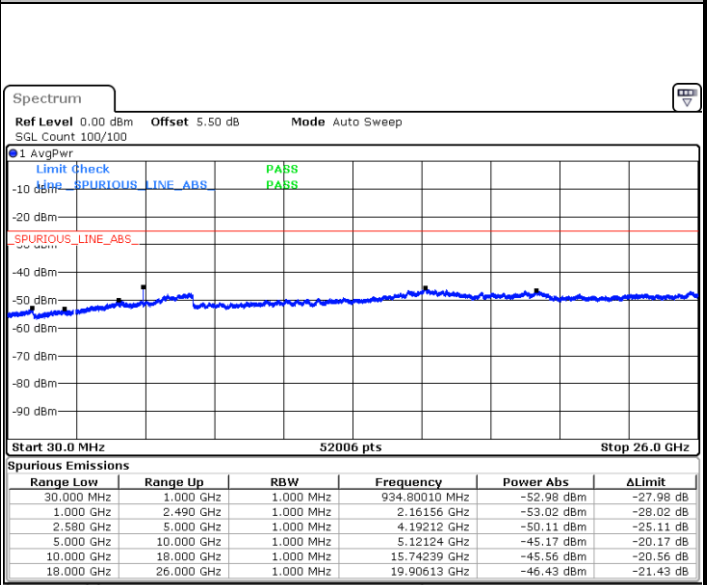
Date: 30.SEP.2018 10:10:54

Highest Channel / QPSK



Date: 30.SEP.2018 11:36:55

Highest Channel / 16QAM



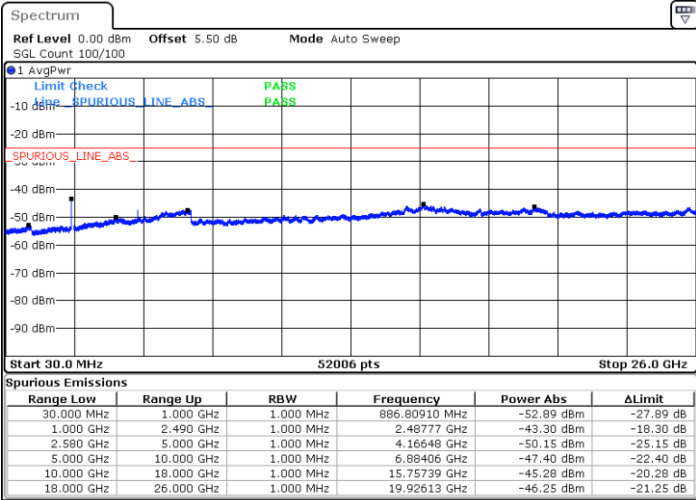
Date: 30.SEP.2018 11:35:00



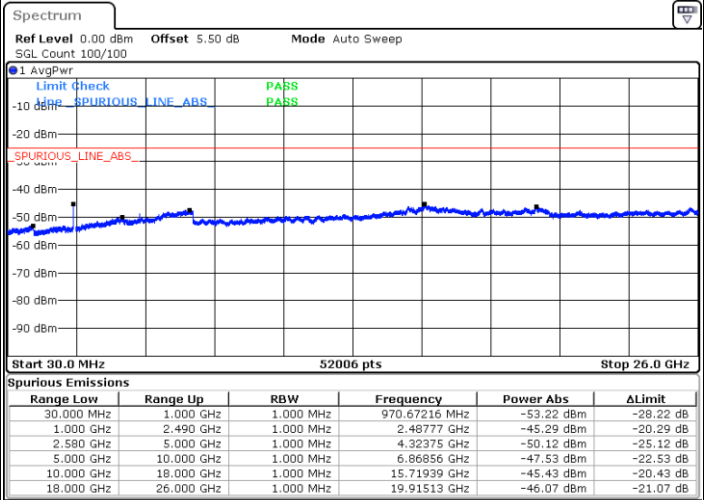
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



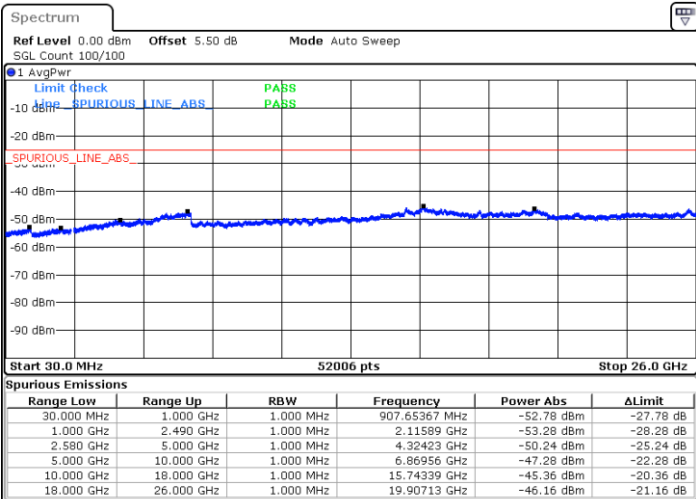
Date: 30.SEP.2018 10:20:59



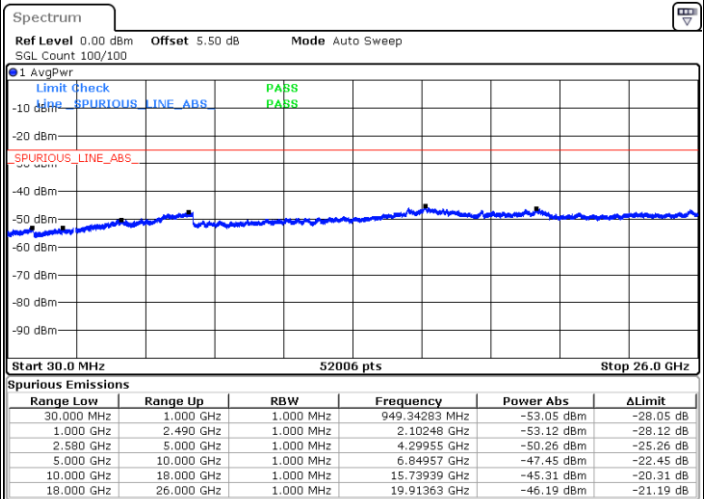
Date: 30.SEP.2018 10:21:53

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 30.SEP.2018 10:23:41

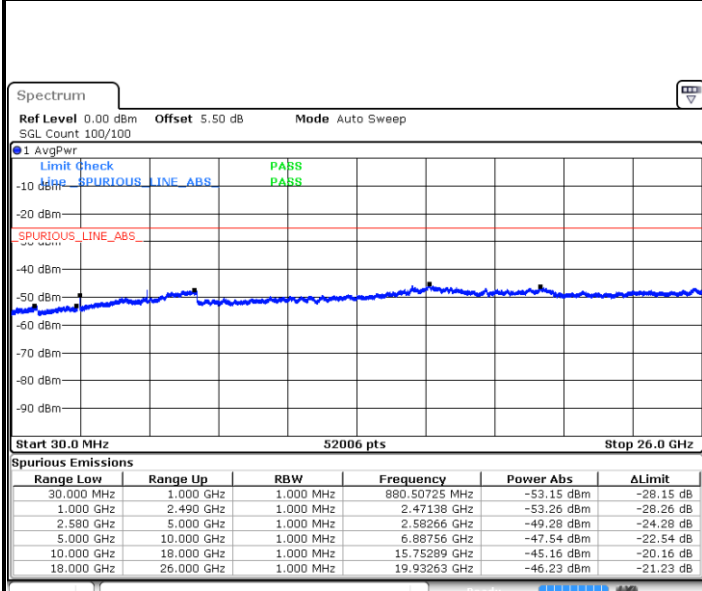


Date: 30.SEP.2018 10:22:47



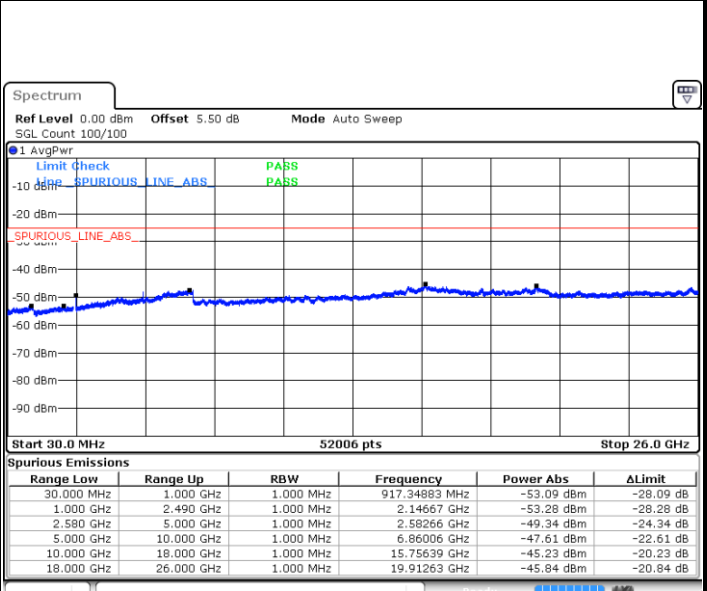
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 30.SEP.2018 10:24:35

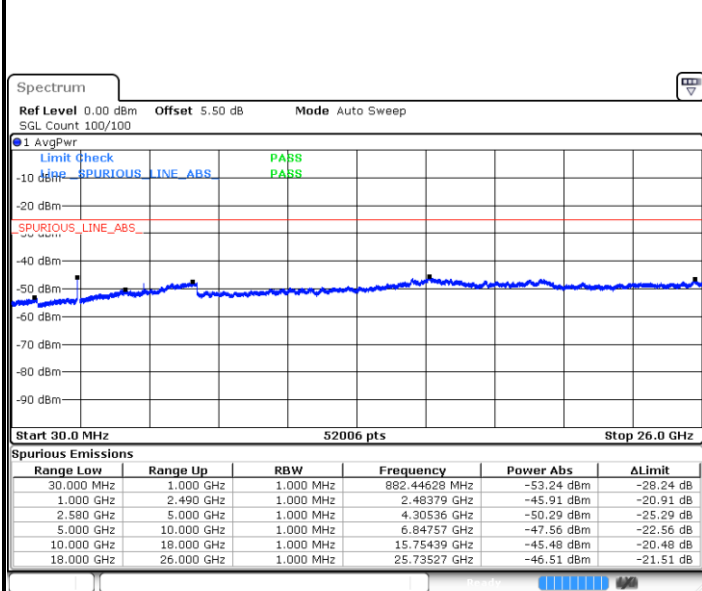
Highest Channel / 16QAM



Date: 30.SEP.2018 10:25:29

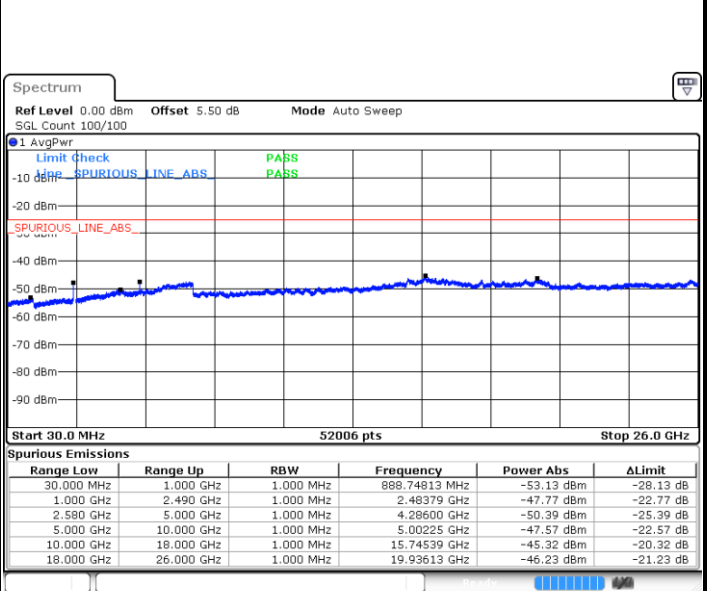
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 30.SEP.2018 11:26:08

Lowest Channel / 16QAM



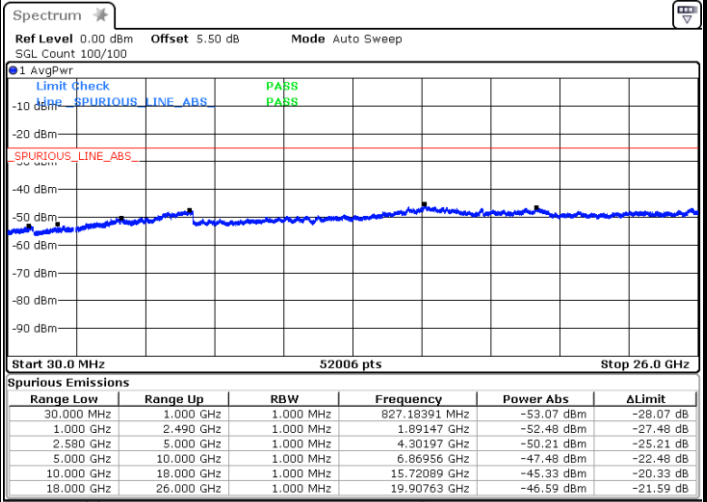
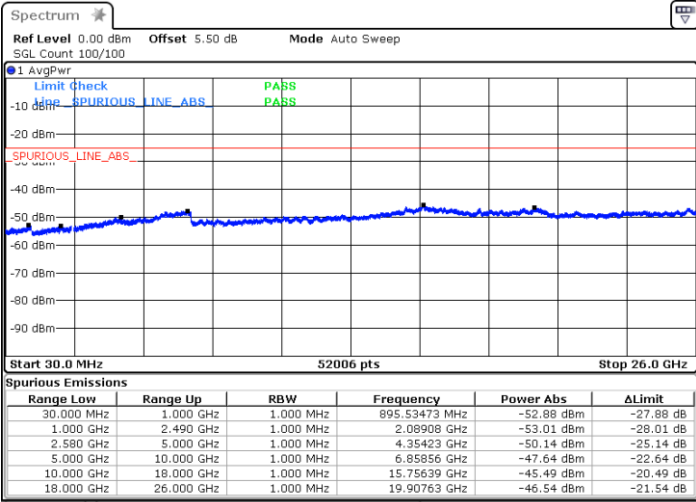
Date: 30.SEP.2018 11:27:05



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

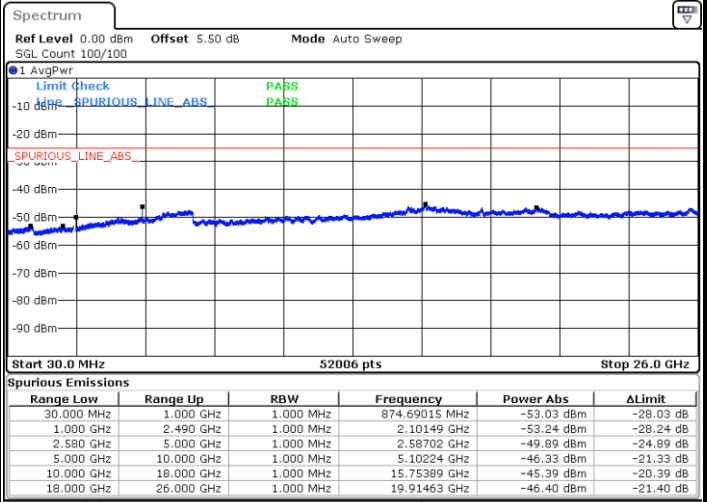
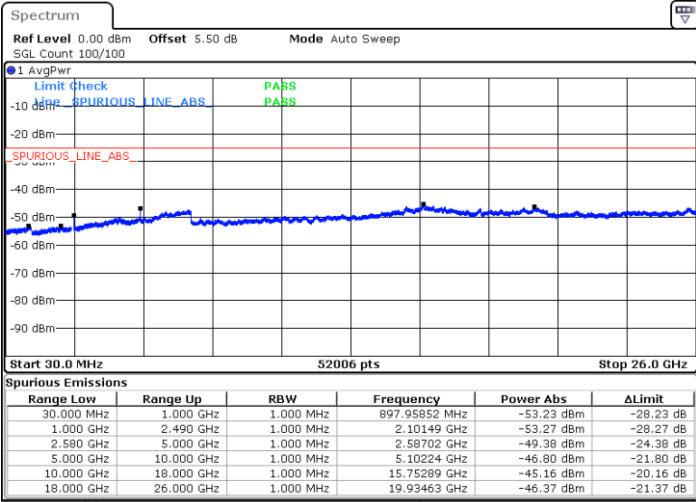


Date: 30.SEP.2018 11:32:28

Date: 30.SEP.2018 11:29:35

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30.SEP.2018 10:36:28

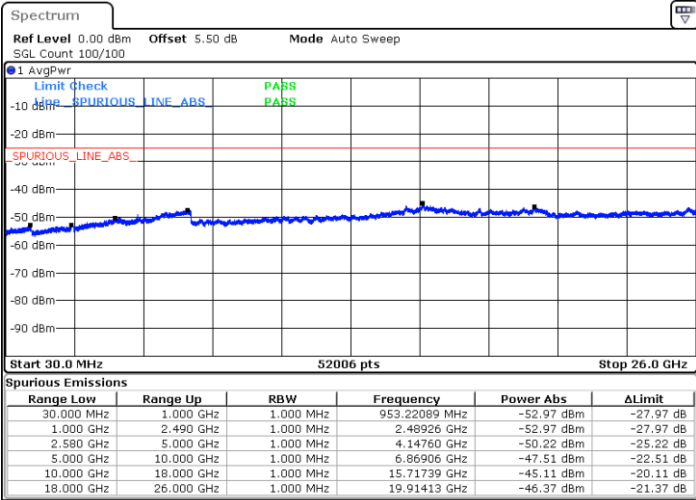
Date: 30.SEP.2018 10:37:22



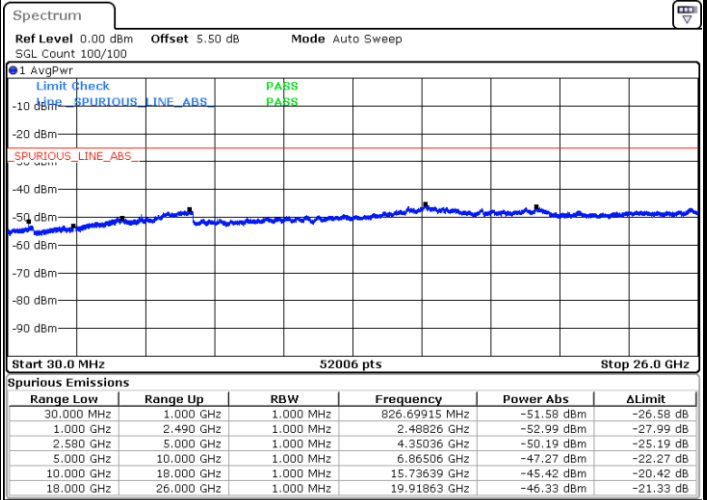
LTE Band 7 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

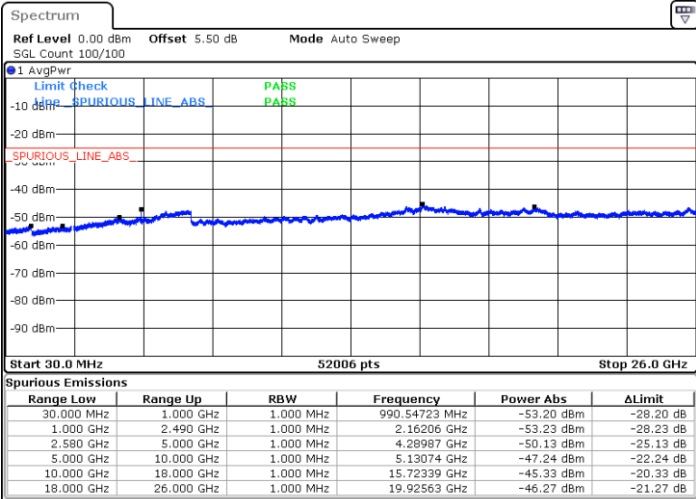


Date: 30 SEP 2018 10:41:55



Date: 30 SEP 2018 10:42:49

Highest Channel / 64QAM



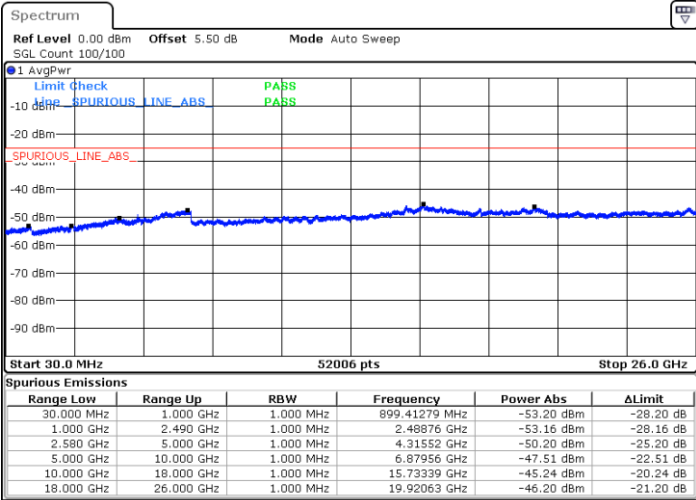
Date: 30 SEP 2018 10:43:43



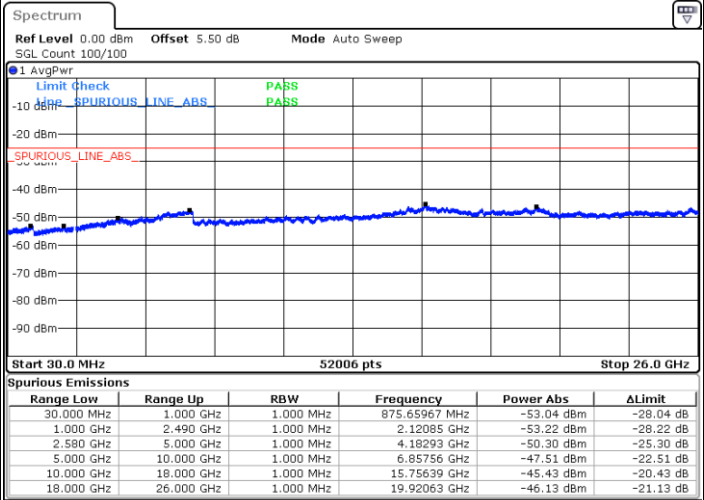
LTE Band 7 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

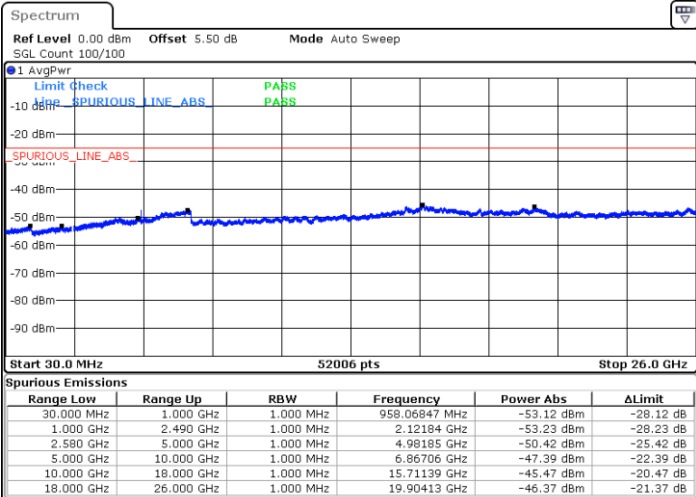


Date: 30 SEP 2018 10:47:52



Date: 30 SEP 2018 10:48:46

Highest Channel / 64QAM



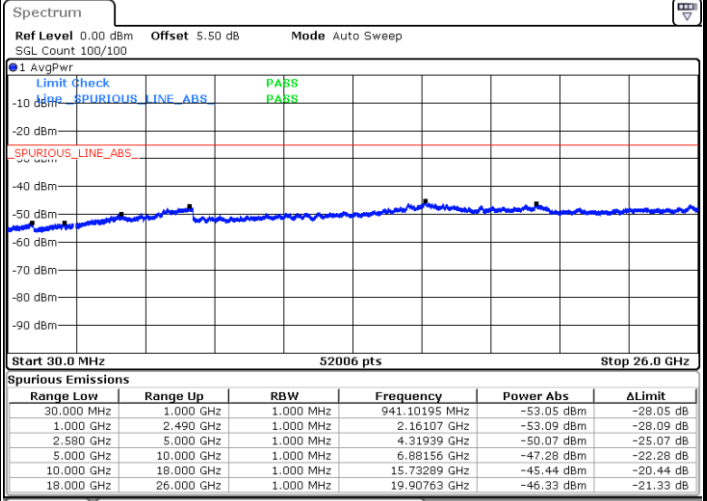
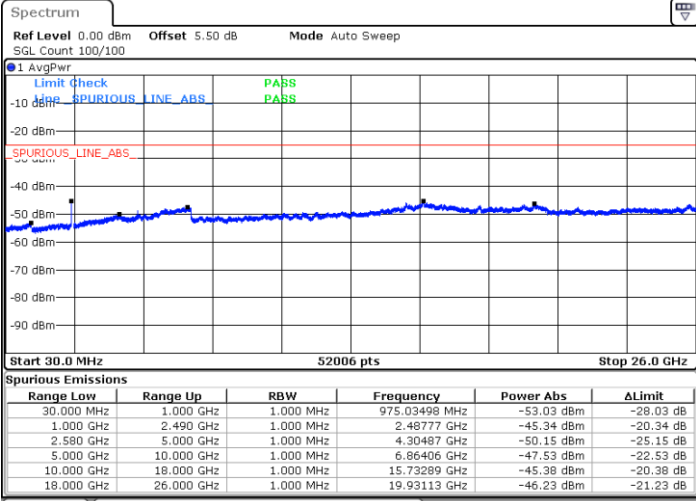
Date: 30 SEP 2018 10:49:39



LTE Band 7 / 15MHz

Lowest Channel / 64QAM

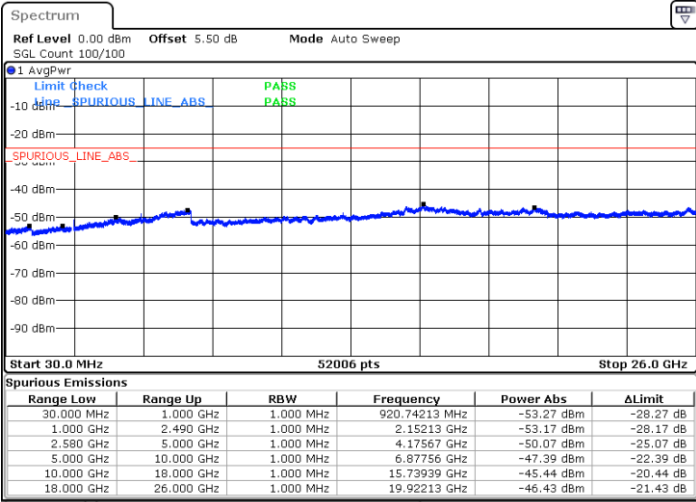
Middle Channel / 64QAM



Date: 30 SEP.2018 10:56:04

Date: 30 SEP.2018 10:56:58

Highest Channel / 64QAM



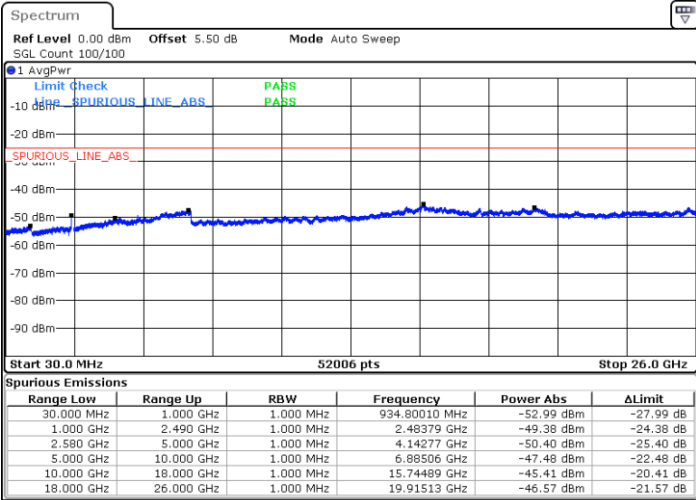
Date: 30 SEP.2018 10:57:52



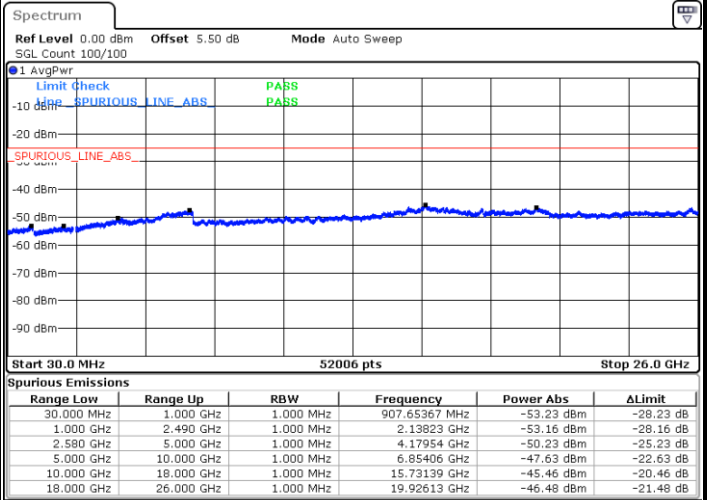
LTE Band 7 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

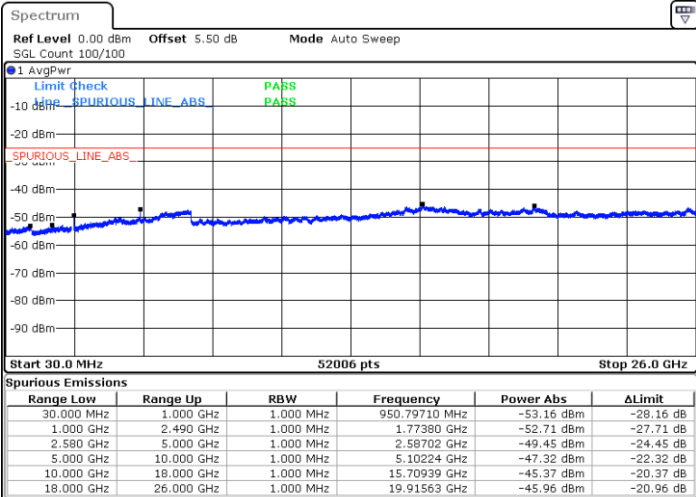


Date: 30.SEP.2018 11:28:01



Date: 30.SEP.2018 11:30:44

Highest Channel / 64QAM



Date: 30.SEP.2018 11:03:49



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0019	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =4.0V. : Battery End Point (BEP) =3.4V. : Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

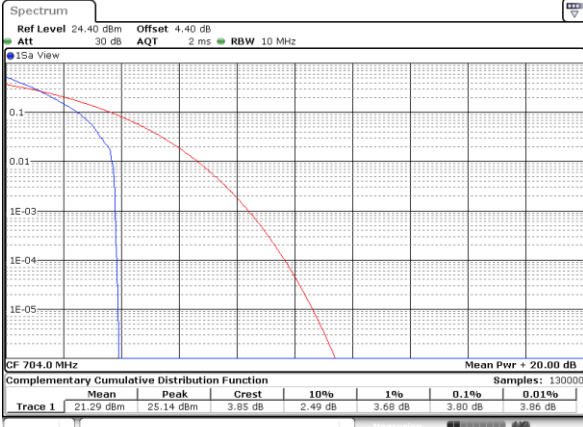
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.8	4.64	4.84	5.59	PASS
Middle CH	3.94	4.58	4.96	5.59	
Highest CH	4.03	4.55	4.93	5.54	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.59	6.14	PASS		
Middle CH	5.94	6.14			
Highest CH	5.74	6.20			



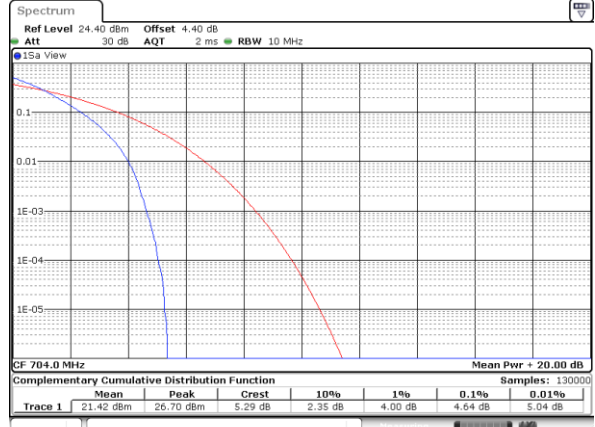
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



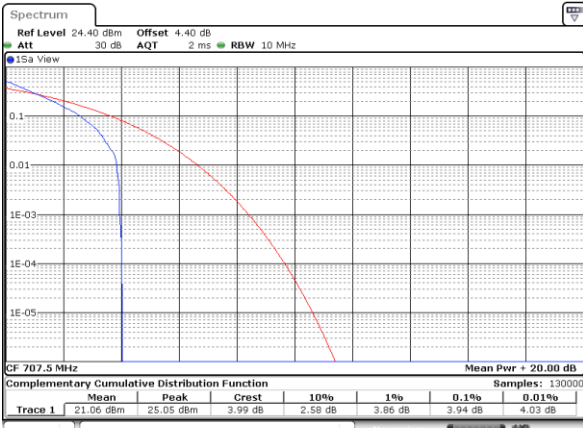
Date: 29 SEP 2018 14:40:48

Lowest Channel / Full RB



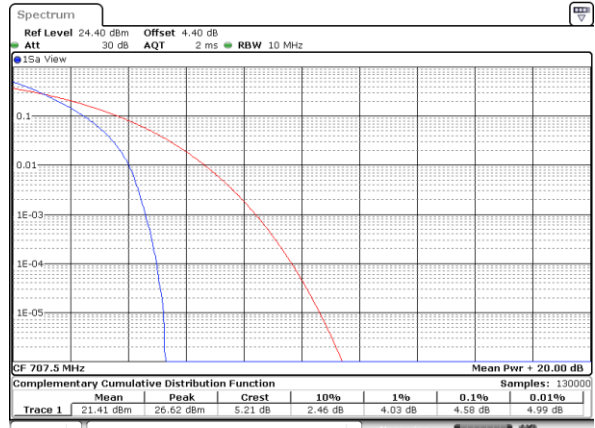
Date: 29 SEP 2018 14:40:57

Middle Channel / 1RB



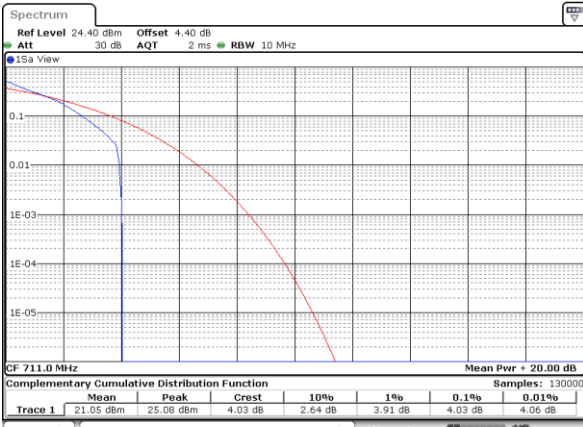
Date: 29 SEP 2018 14:41:35

Middle Channel / Full RB



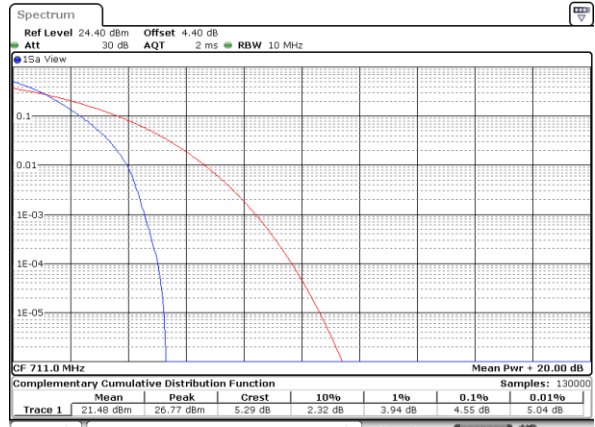
Date: 29 SEP 2018 14:41:25

Highest Channel / 1RB



Date: 29 SEP 2018 14:42:03

Highest Channel / Full RB

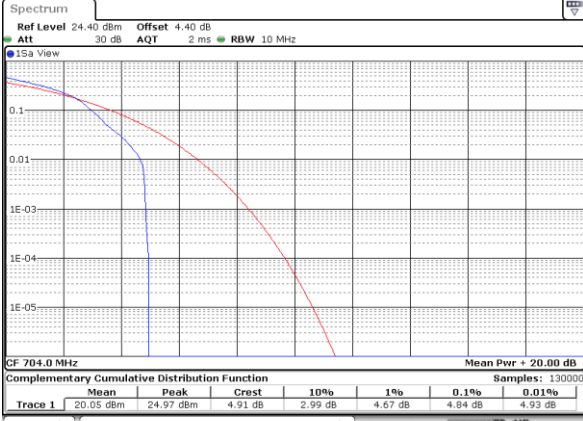


Date: 29 SEP 2018 14:42:12



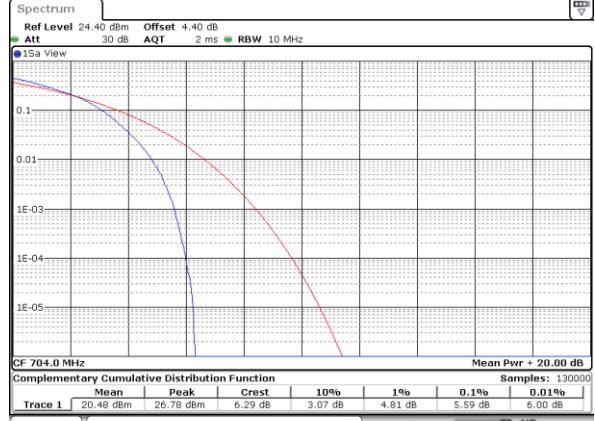
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



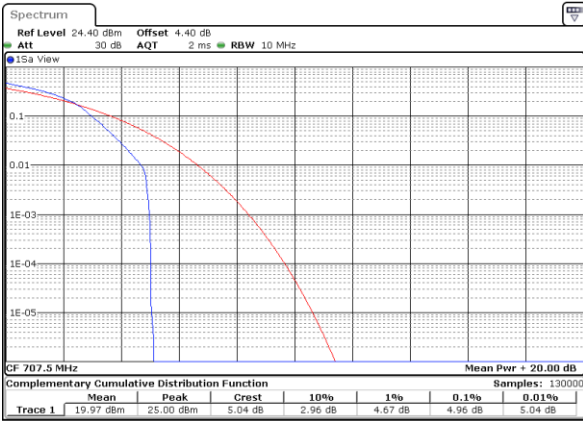
Date: 29 SEP 2018 14:40:38

Lowest Channel / Full RB



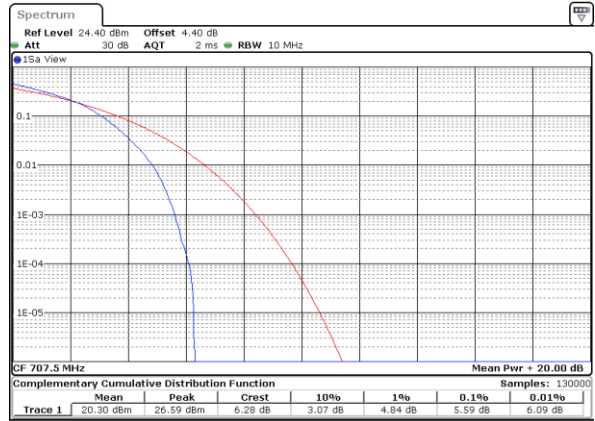
Date: 29 SEP 2018 14:41:06

Middle Channel / 1RB



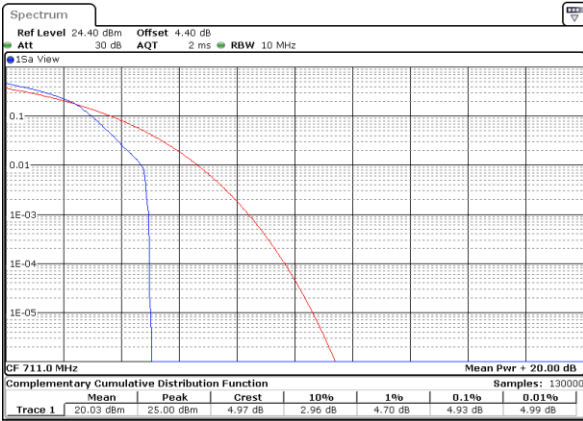
Date: 29 SEP 2018 14:41:44

Middle Channel / Full RB



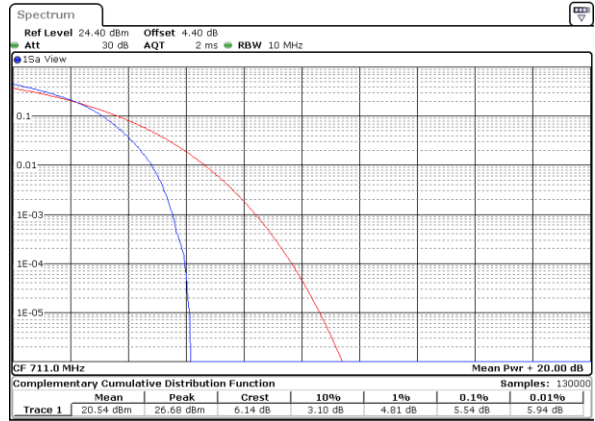
Date: 29 SEP 2018 14:41:16

Highest Channel / 1RB



Date: 29 SEP 2018 14:41:54

Highest Channel / Full RB

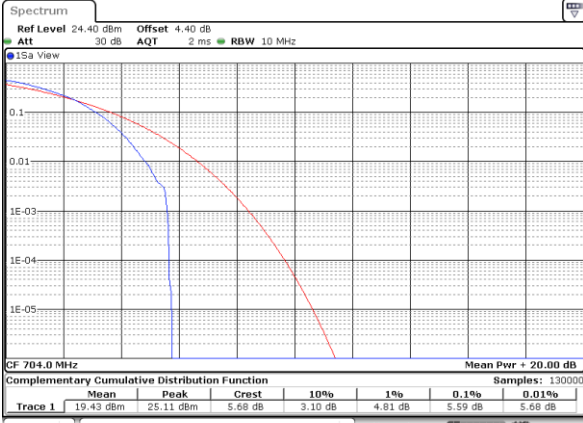


Date: 29 SEP 2018 14:42:22



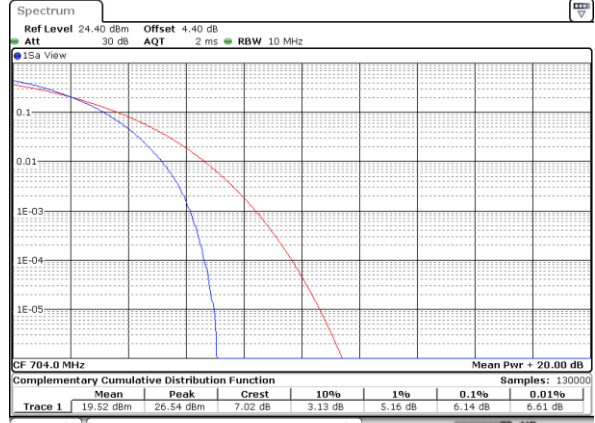
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



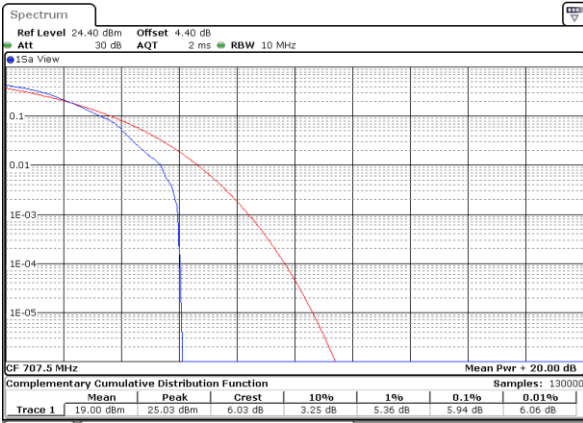
Date: 29 SEP 2018 15:27:19

Lowest Channel / Full RB



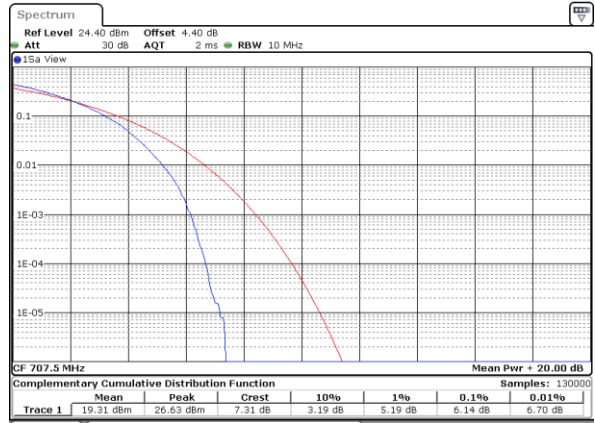
Date: 29 SEP 2018 15:27:31

Middle Channel / 1RB



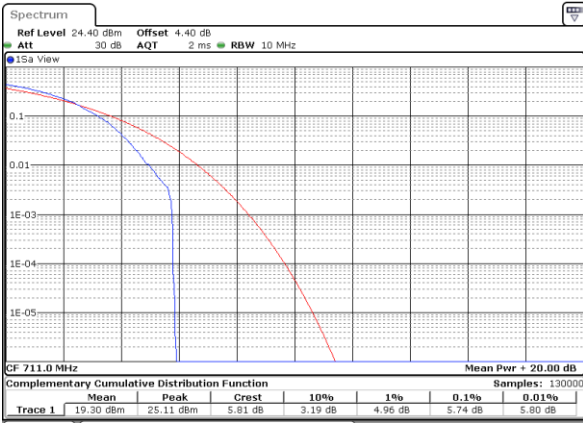
Date: 29 SEP 2018 15:27:56

Middle Channel / Full RB



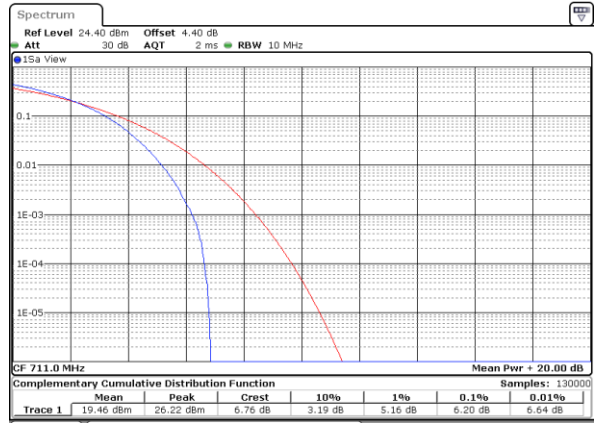
Date: 29 SEP 2018 15:27:44

Highest Channel / 1RB



Date: 29 SEP 2018 15:28:07

Highest Channel / Full RB



Date: 29 SEP 2018 15:28:19



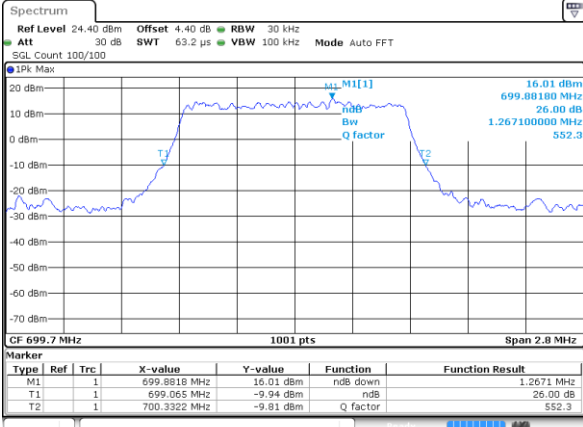
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		1.4MHz	3MHz	5MHz	10MHz
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	1.267	1.29	2.973	3.045	4.975	4.855	9.93	9.73	1.267	3.015	4.955	9.73
Middle CH	1.248	1.248	2.955	3.003	4.895	4.885	9.67	9.89	1.245	3.015	5.015	9.77
Highest CH	1.267	1.264	3.015	2.997	4.935	4.905	9.79	10.01	1.276	3.039	4.995	10.01



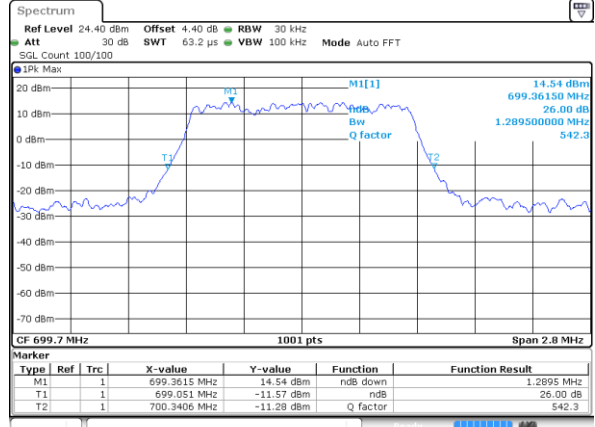
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



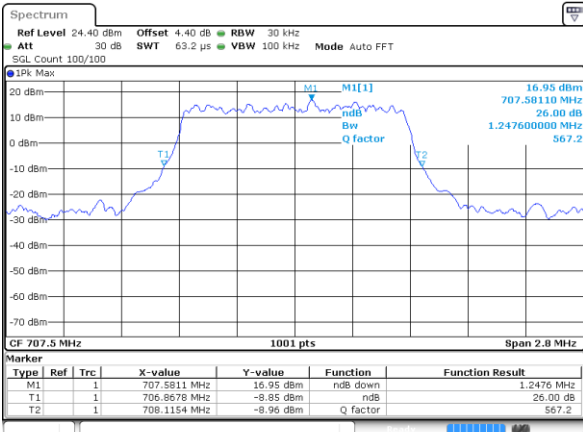
Date: 29 SEP 2018 13:36:31

Lowest Channel / 1.4MHz / 16QAM



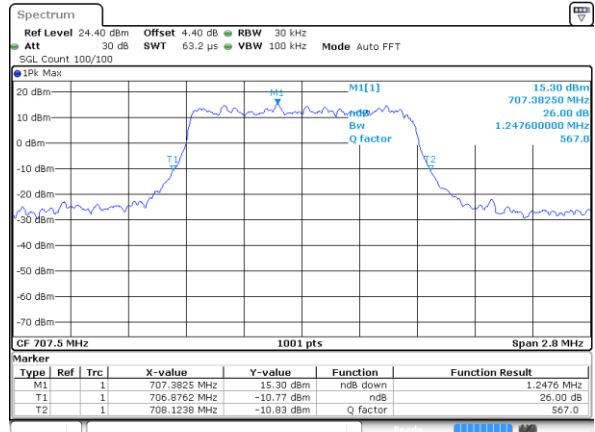
Date: 29 SEP 2018 13:36:21

Middle Channel / 1.4MHz / QPSK



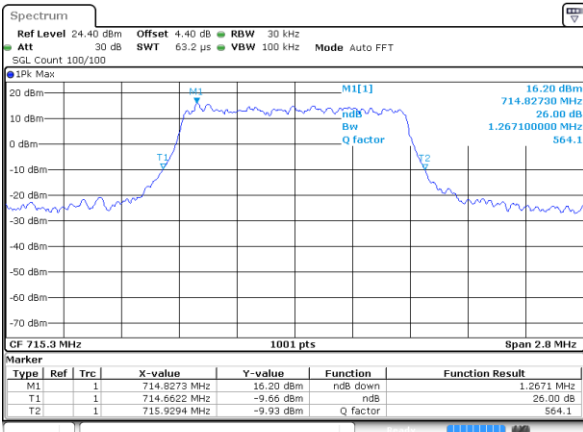
Date: 29 SEP 2018 13:36:02

Middle Channel / 1.4MHz / 16QAM



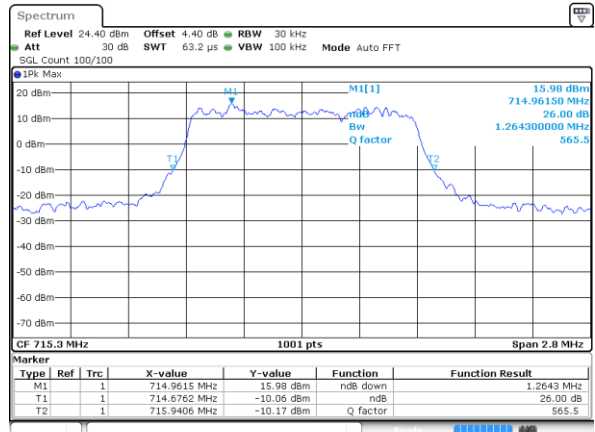
Date: 29 SEP 2018 13:36:12

Highest Channel / 1.4MHz / QPSK



Date: 29 SEP 2018 13:35:52

Highest Channel / 1.4MHz / 16QAM

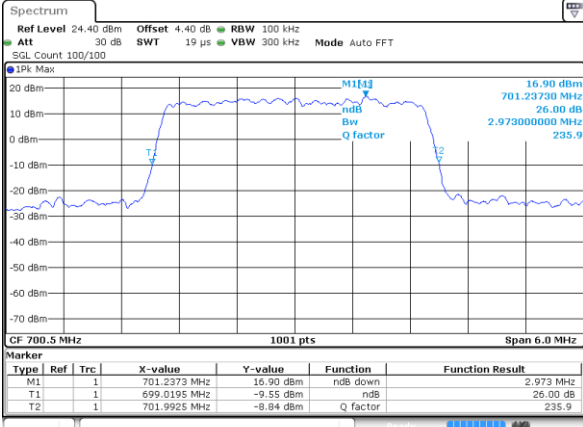


Date: 29 SEP 2018 13:35:42



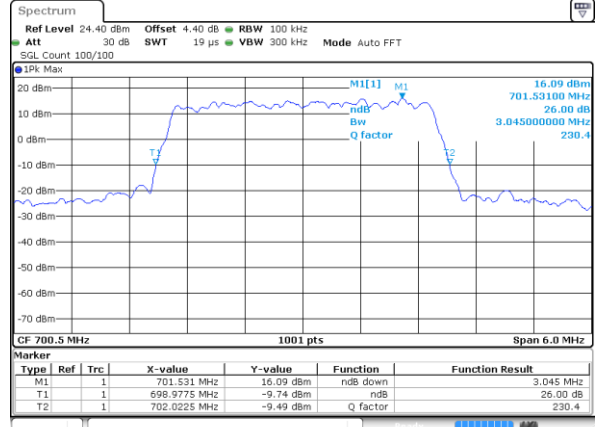
LTE Band 12

Lowest Channel / 3MHz / QPSK



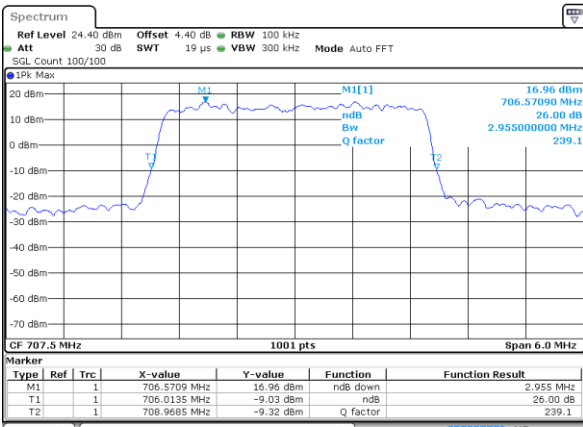
Date: 29 SEP 2018 13:52:54

Lowest Channel / 3MHz / 16QAM



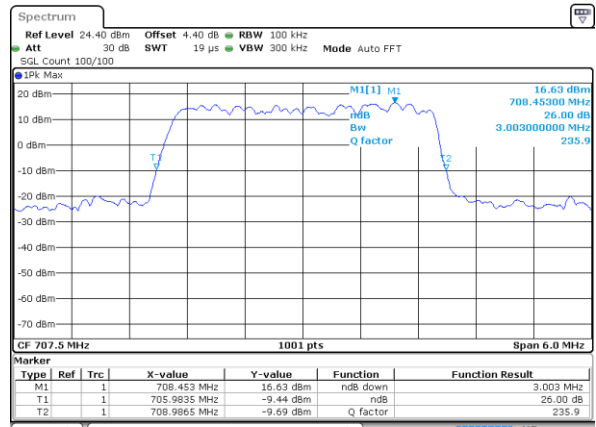
Date: 29 SEP 2018 13:52:44

Middle Channel / 3MHz / QPSK



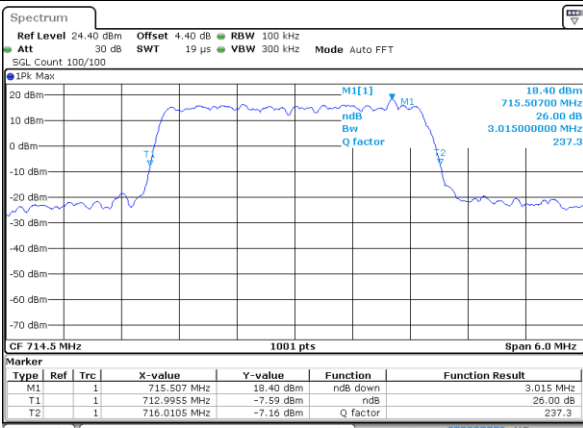
Date: 29 SEP 2018 13:52:24

Middle Channel / 3MHz / 16QAM



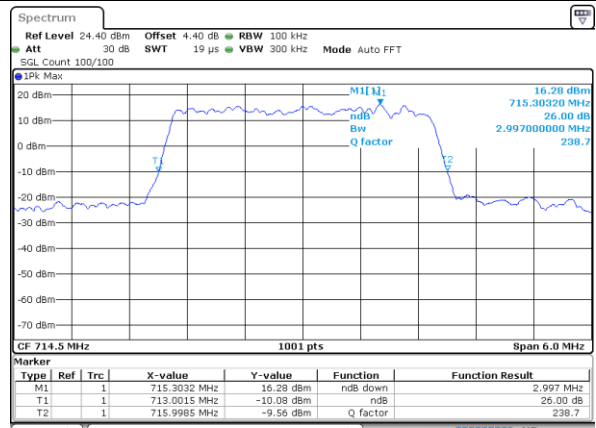
Date: 29 SEP 2018 13:52:34

Highest Channel / 3MHz / QPSK



Date: 29 SEP 2018 13:52:14

Highest Channel / 3MHz / 16QAM



Date: 29 SEP 2018 13:52:05