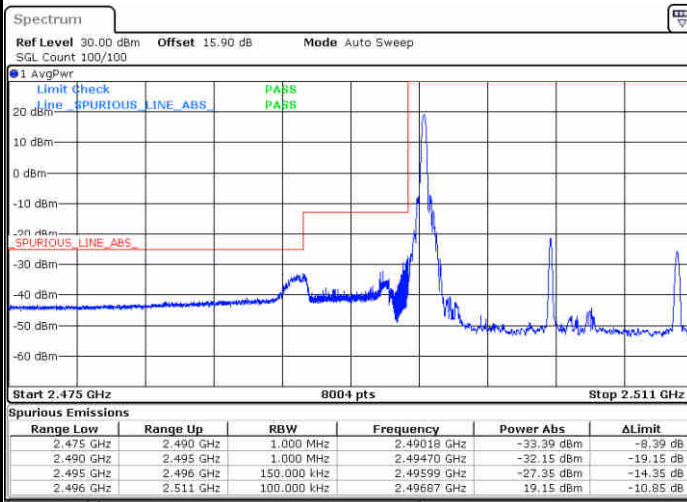




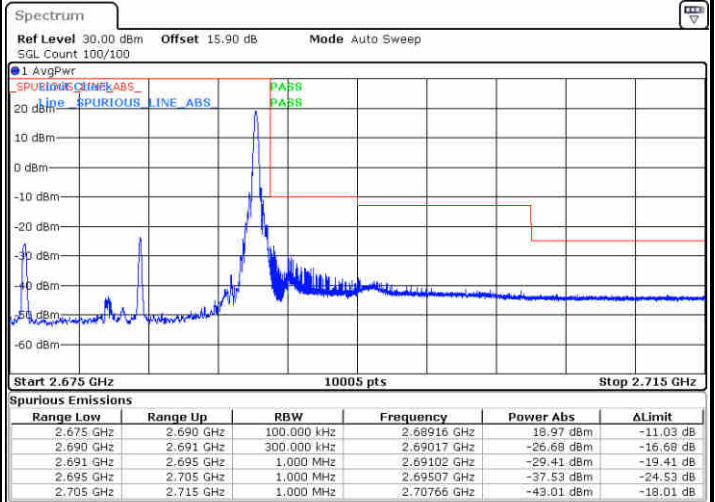
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



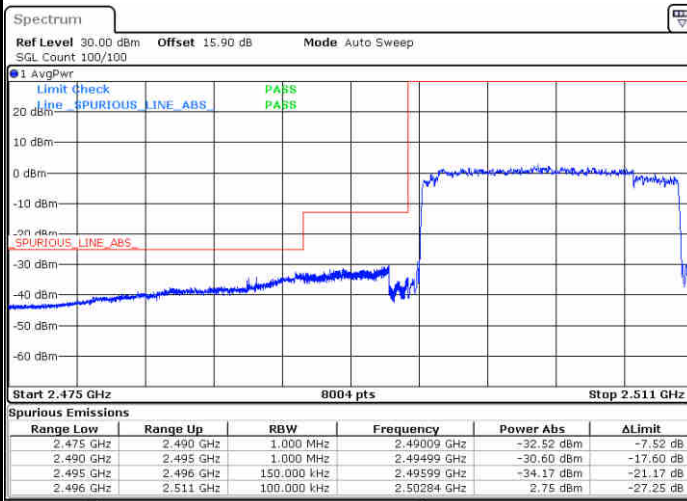
Date: 2.OCT.2017 16:40:42

Highest Band Edge / 1 RB



Date: 2.OCT.2017 16:45:19

Lowest Band Edge / Full RB



Date: 2.OCT.2017 16:43:01

Highest Band Edge / Full RB

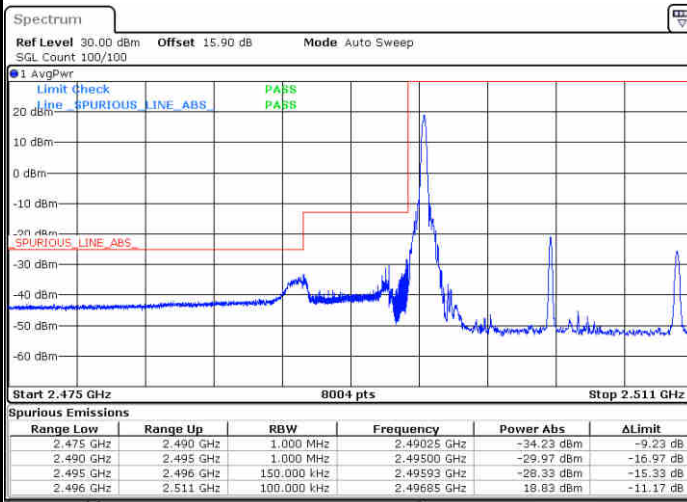


Date: 2.OCT.2017 16:47:37



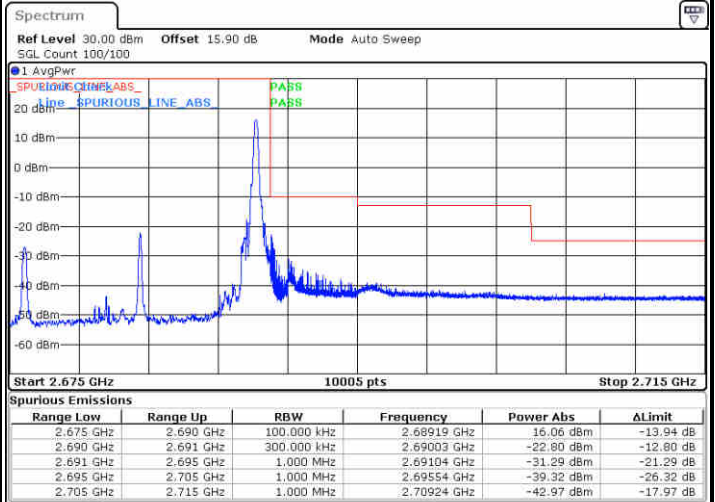
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



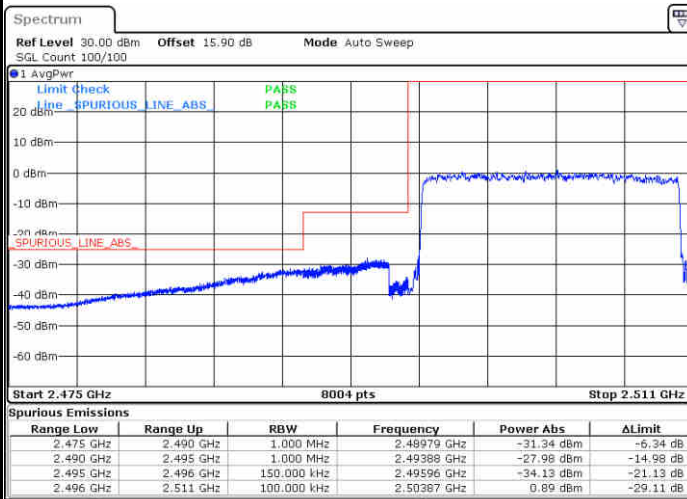
Date: 2.OCT.2017 16:41:52

Highest Band Edge / 1 RB



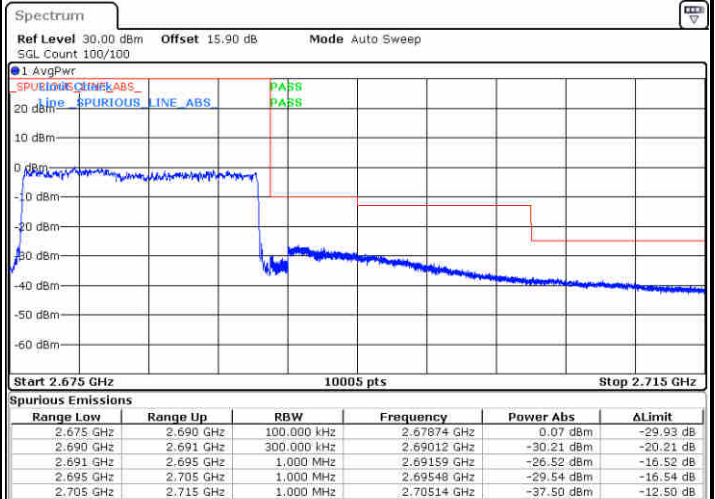
Date: 2.OCT.2017 16:46:28

Lowest Band Edge / Full RB



Date: 2.OCT.2017 16:44:10

Highest Band Edge / Full RB

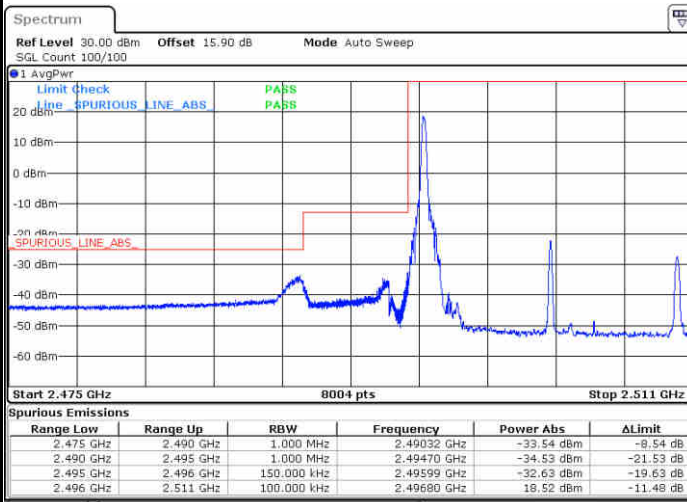


Date: 2.OCT.2017 16:48:46



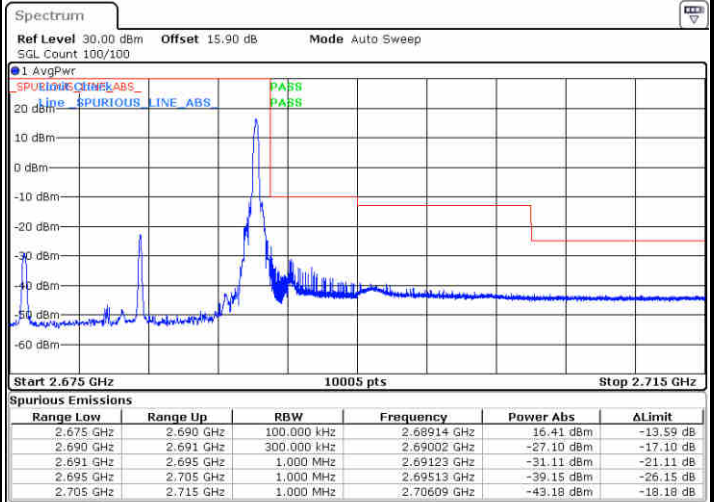
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



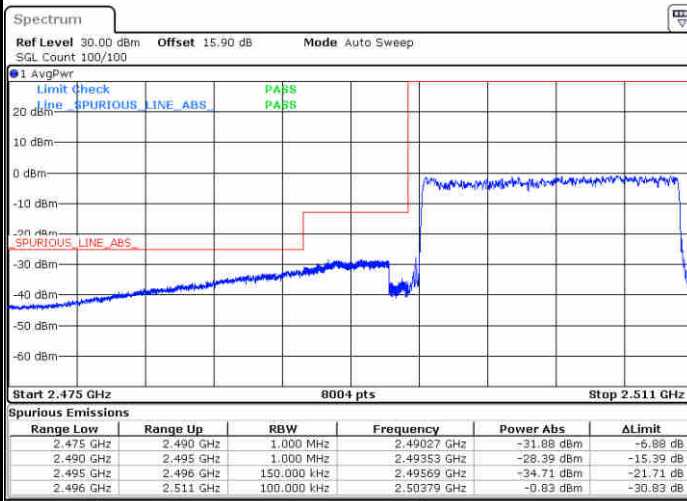
Date: 2.OCT.2017 17:52:51

Highest Band Edge / 1 RB



Date: 2.OCT.2017 17:55:10

Lowest Band Edge / Full RB



Date: 2.OCT.2017 17:54:01

Highest Band Edge / Full RB

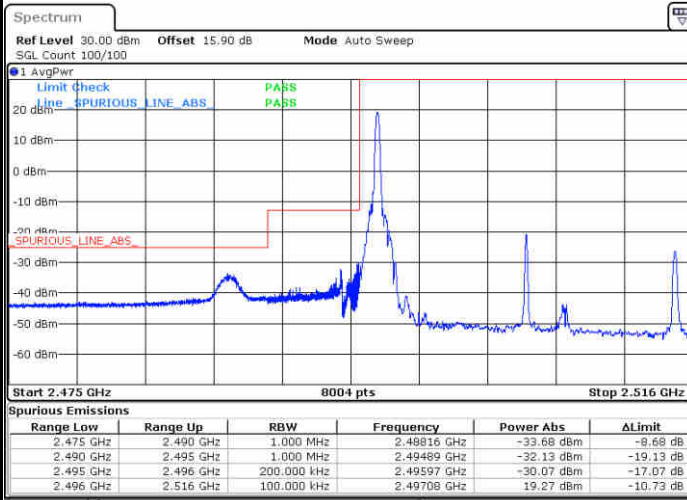


Date: 2.OCT.2017 17:56:18



LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



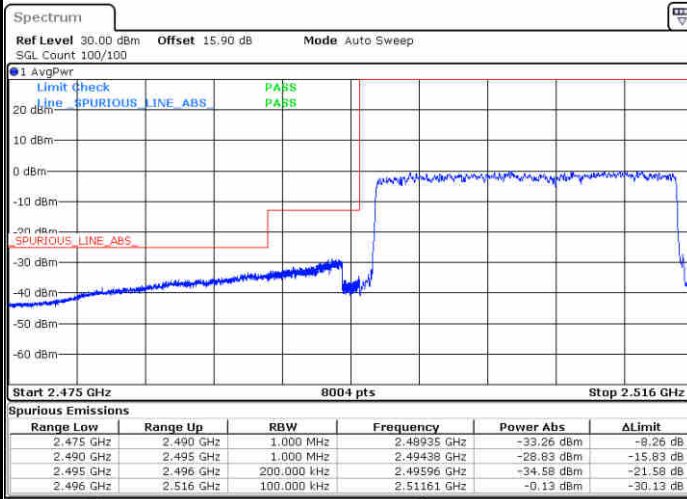
Date: 2.OCT.2017 16:49:55

Highest Band Edge / 1 RB



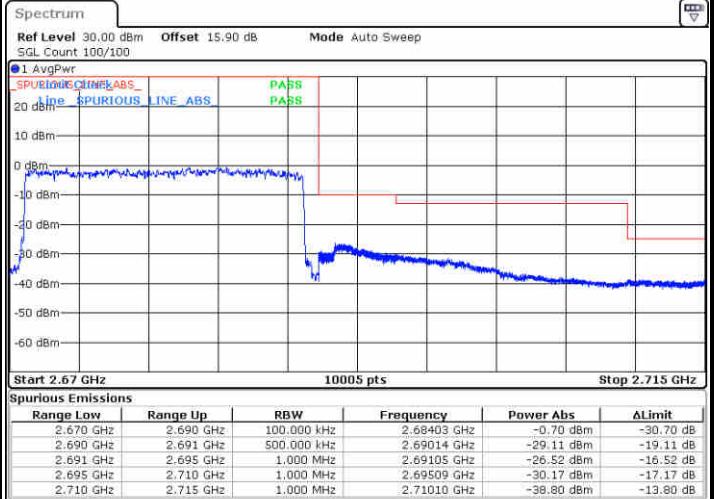
Date: 2.OCT.2017 16:54:32

Lowest Band Edge / Full RB



Date: 2.OCT.2017 16:52:14

Highest Band Edge / Full RB

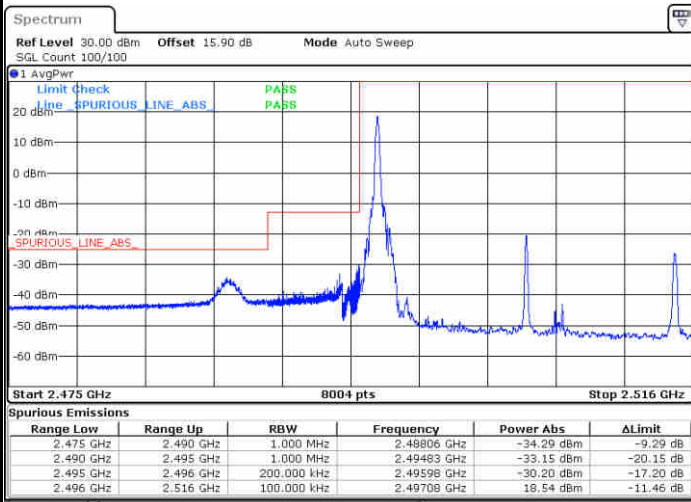


Date: 2.OCT.2017 16:57:58



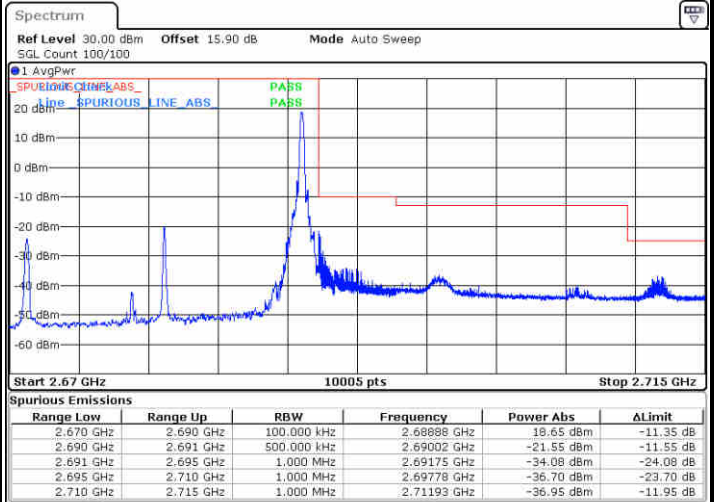
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



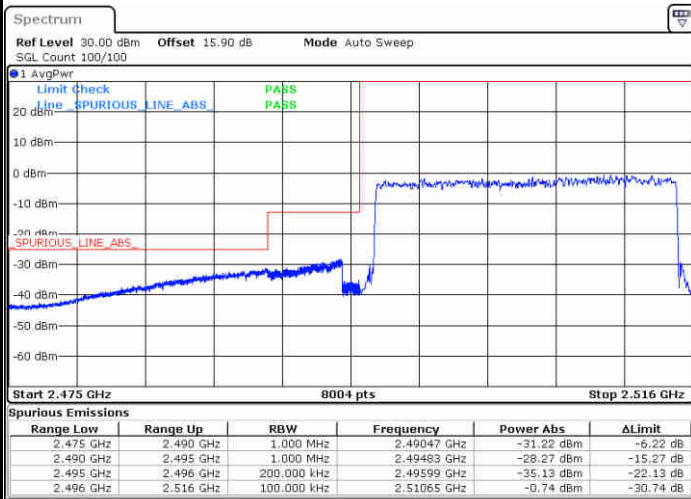
Date: 2.OCT.2017 16:51:04

Highest Band Edge / 1 RB



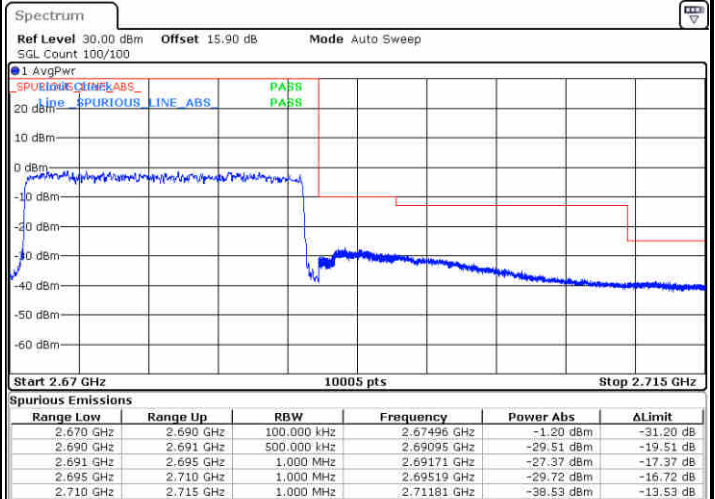
Date: 2.OCT.2017 16:55:41

Lowest Band Edge / Full RB



Date: 2.OCT.2017 16:53:23

Highest Band Edge / Full RB

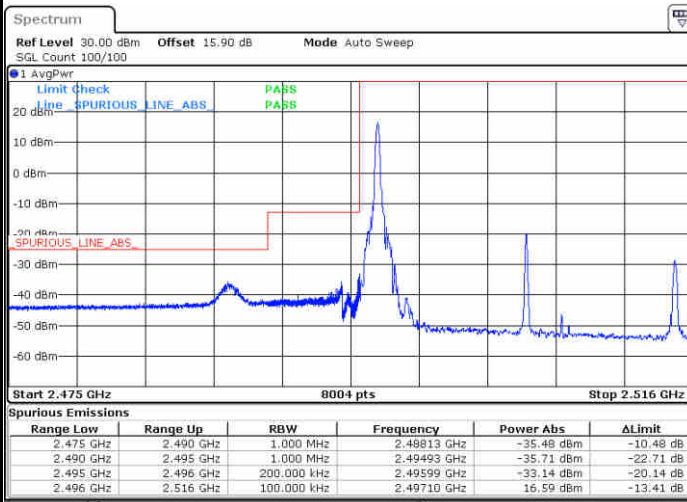


Date: 2.OCT.2017 16:56:50



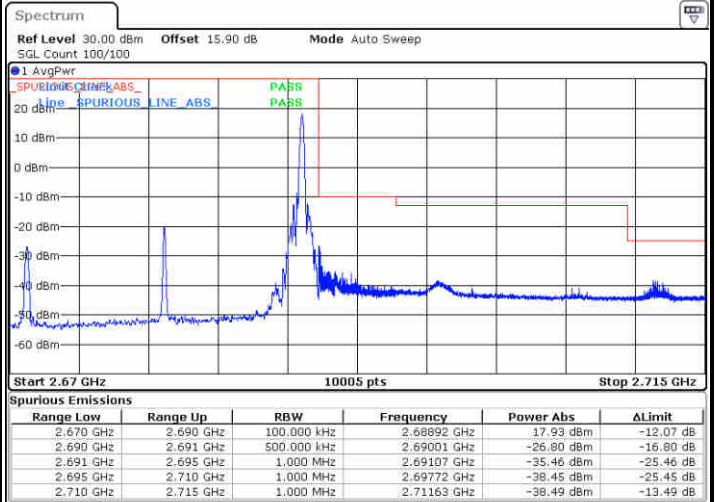
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



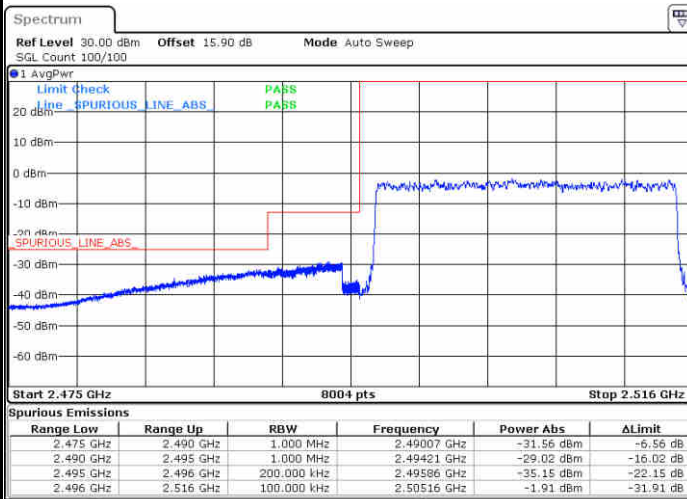
Date: 2.OCT.2017 17:57:28

Highest Band Edge / 1 RB



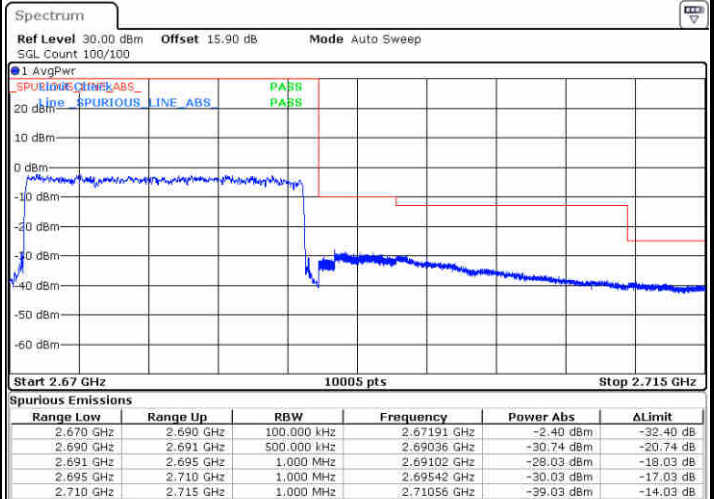
Date: 2.OCT.2017 17:59:46

Lowest Band Edge / Full RB



Date: 2.OCT.2017 17:58:37

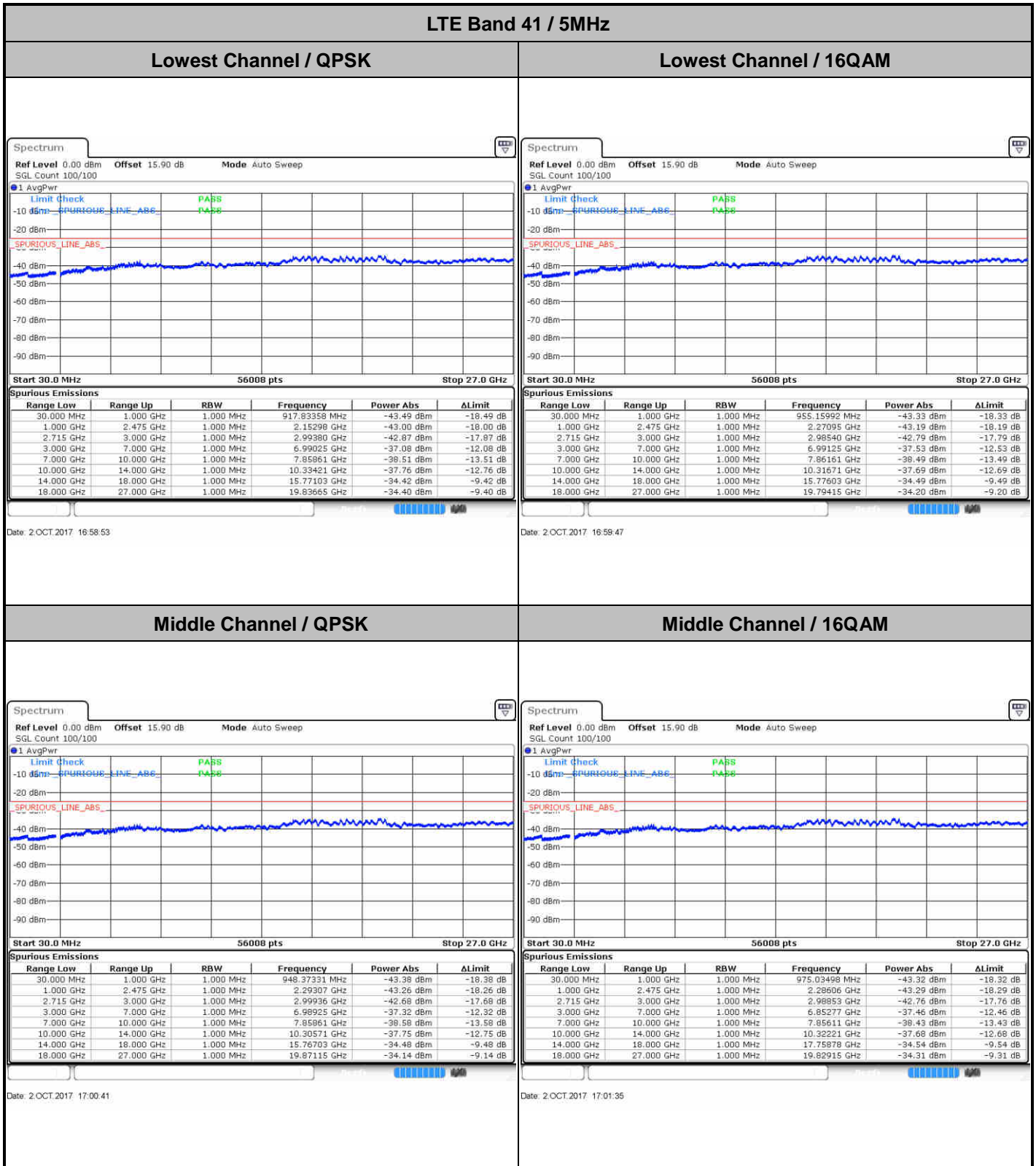
Highest Band Edge / Full RB



Date: 2.OCT.2017 18:00:55



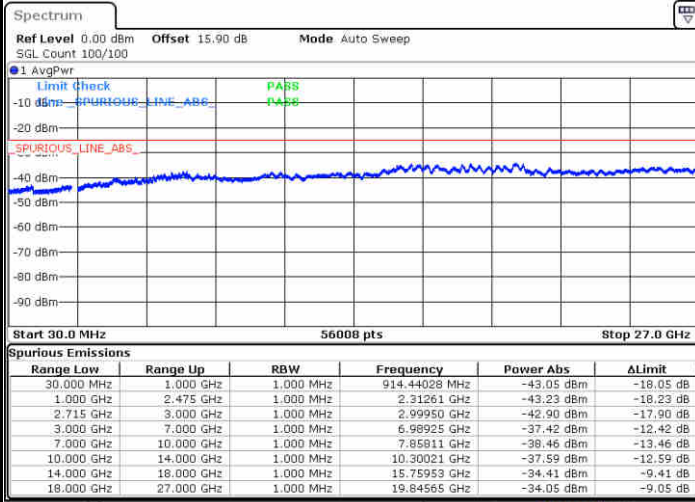
# Conducted Spurious Emission





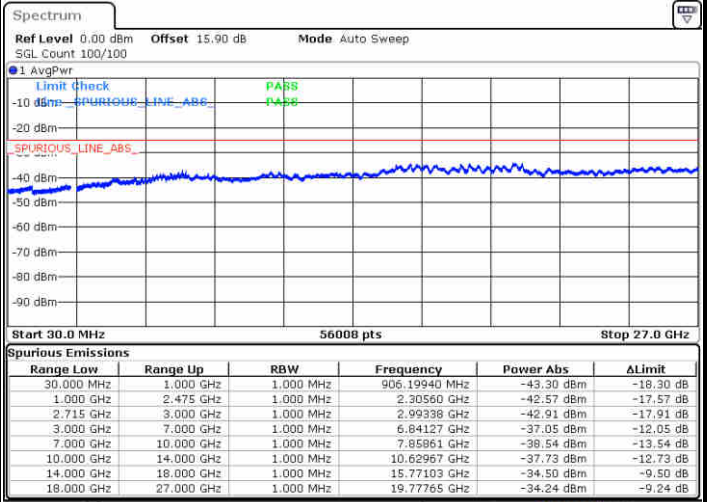
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 2.OCT.2017 17:02:29

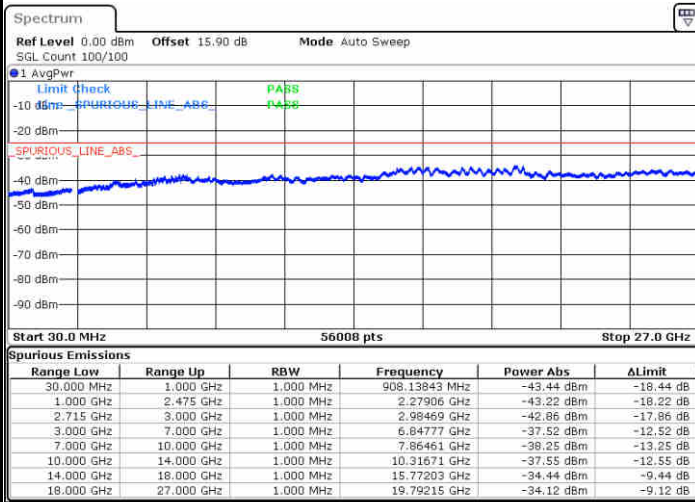
Highest Channel / 16QAM



Date: 2.OCT.2017 17:03:23

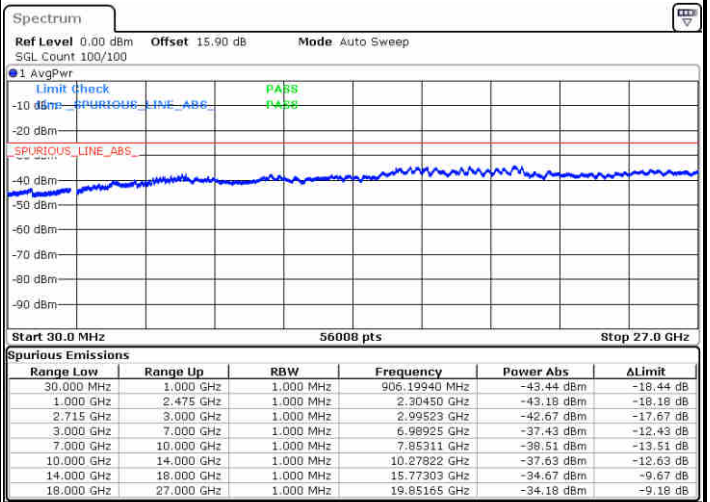
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 2.OCT.2017 17:04:17

Lowest Channel / 16QAM



Date: 2.OCT.2017 17:05:11

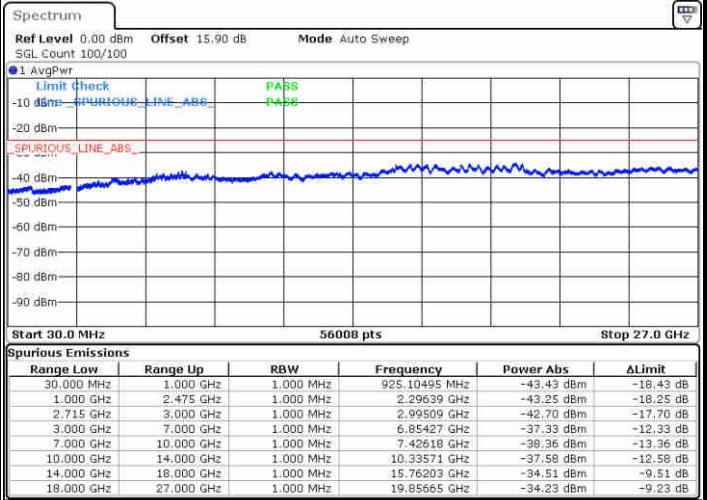
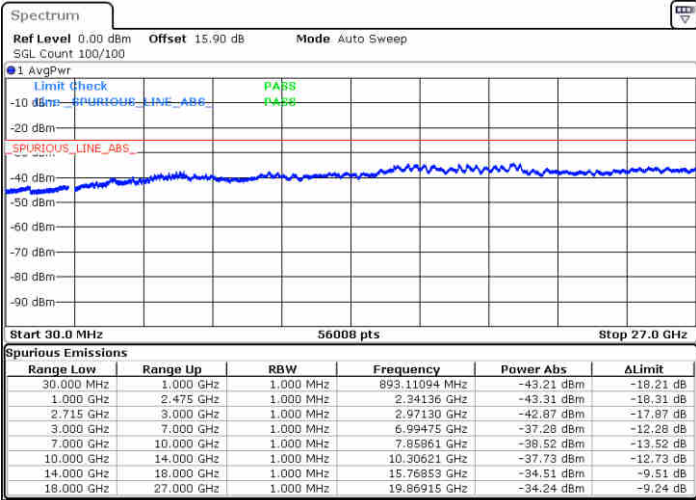




LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

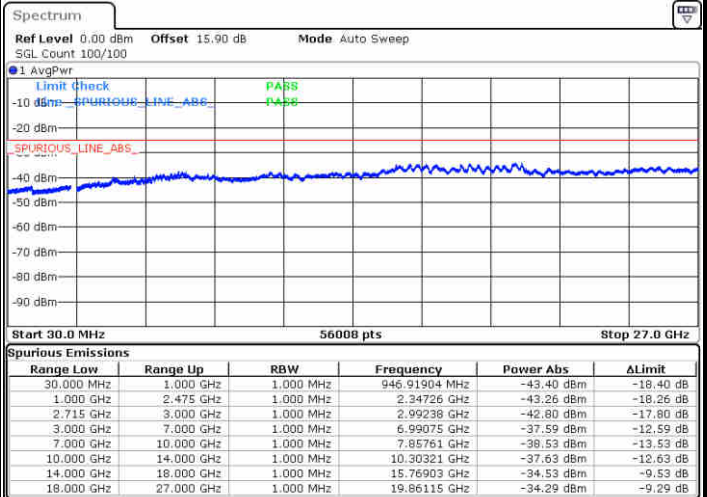
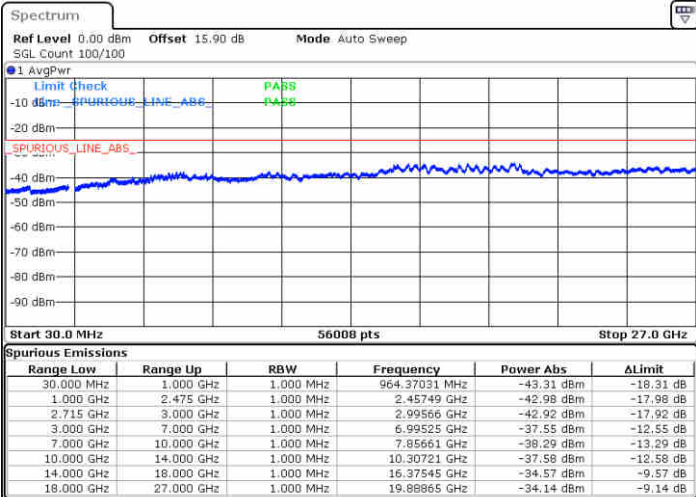


Date: 2.OCT.2017 17:06:05

Date: 2.OCT.2017 17:06:59

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2.OCT.2017 17:07:53

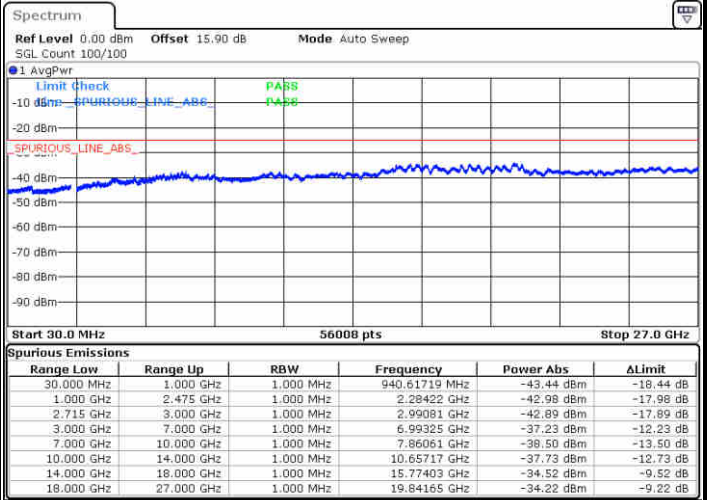
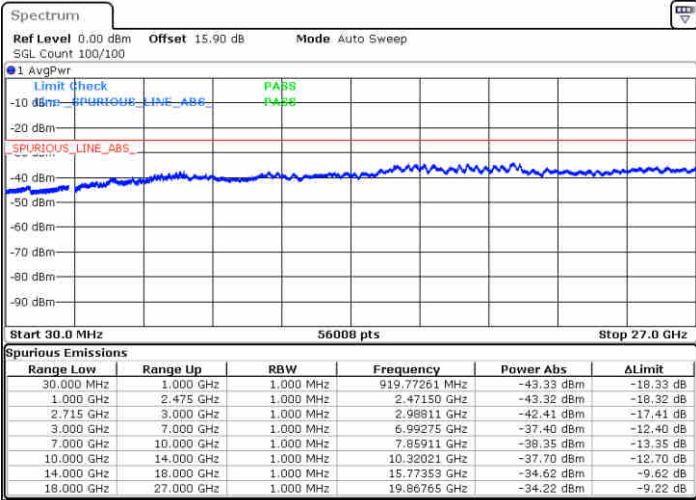
Date: 2.OCT.2017 17:08:47



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

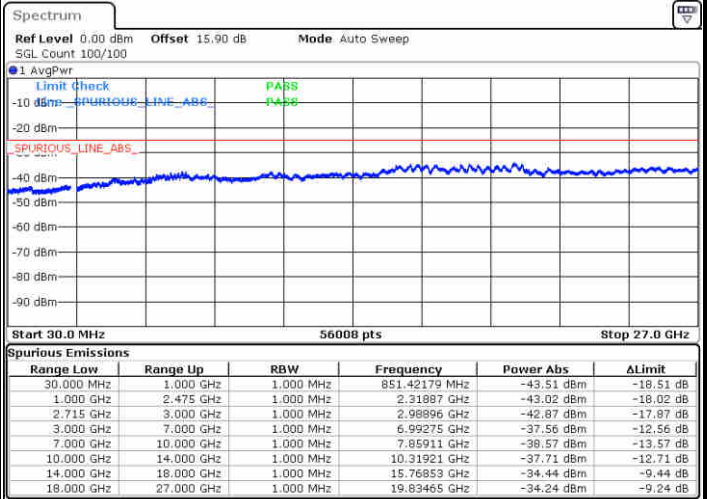
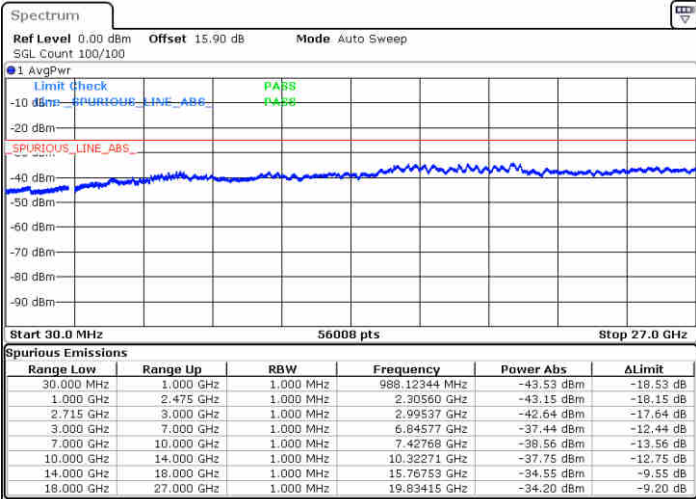


Date: 2.OCT.2017 17:10:20

Date: 2.OCT.2017 17:11:14

Middle Channel / QPSK

Middle Channel / 16QAM



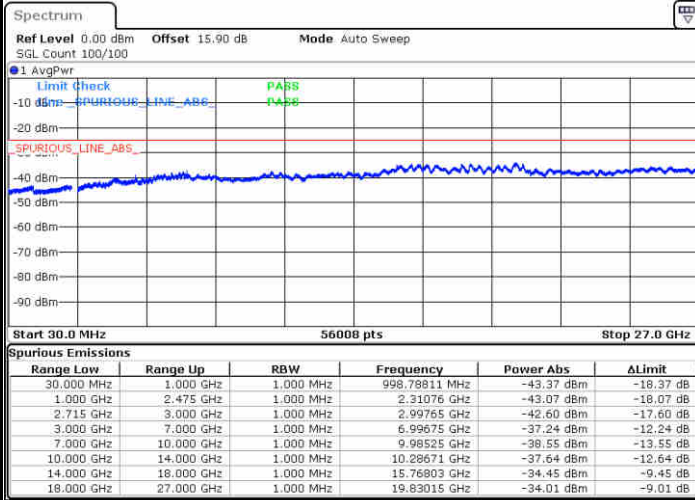
Date: 2.OCT.2017 17:12:08

Date: 2.OCT.2017 17:13:02



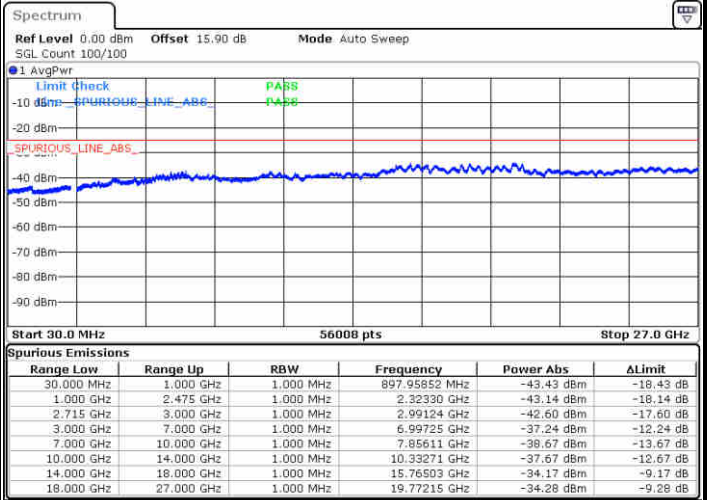
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 2.OCT.2017 17:13:56

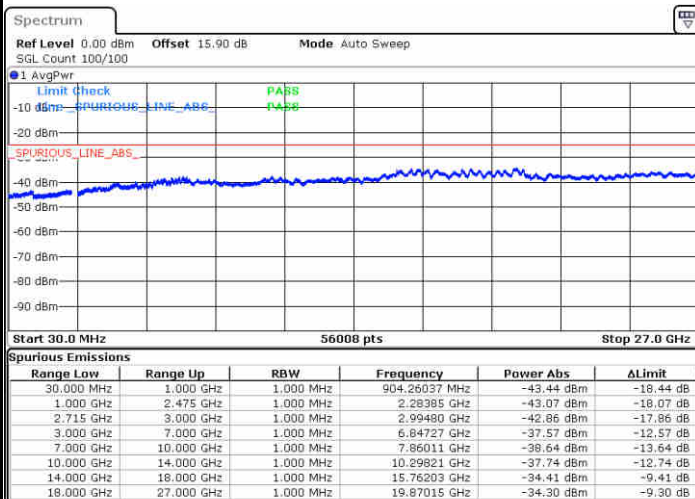
Highest Channel / 16QAM



Date: 2.OCT.2017 17:14:50

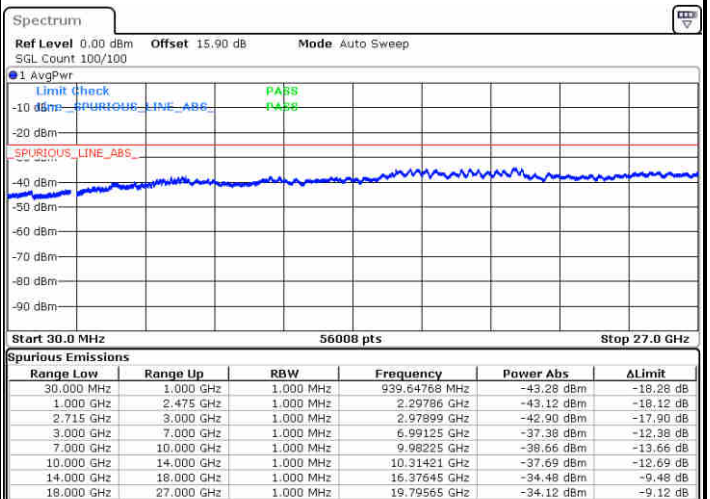
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 2.OCT.2017 17:15:44

Lowest Channel / 16QAM



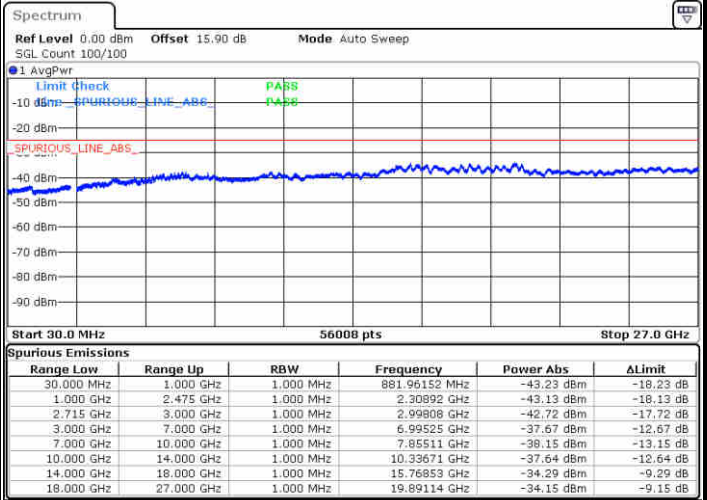
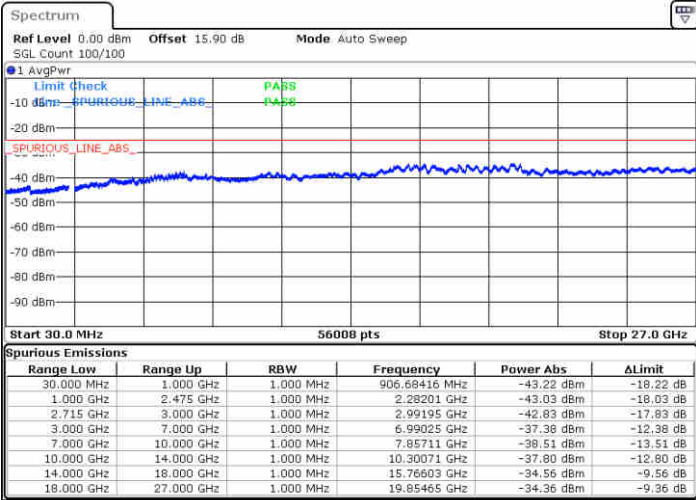
Date: 2.OCT.2017 17:16:38



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

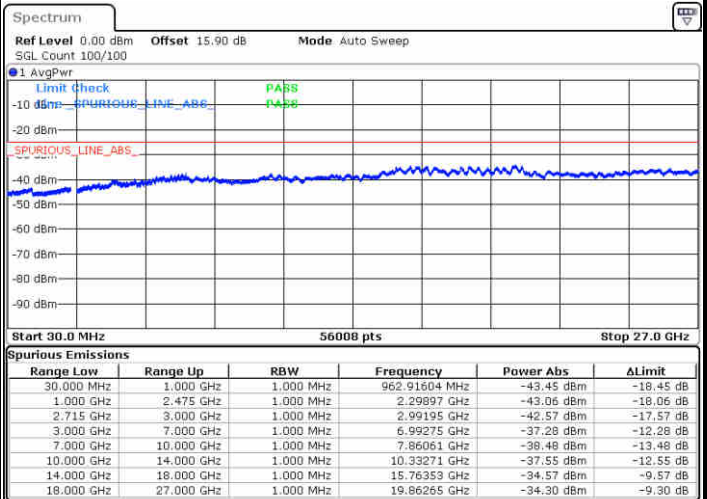
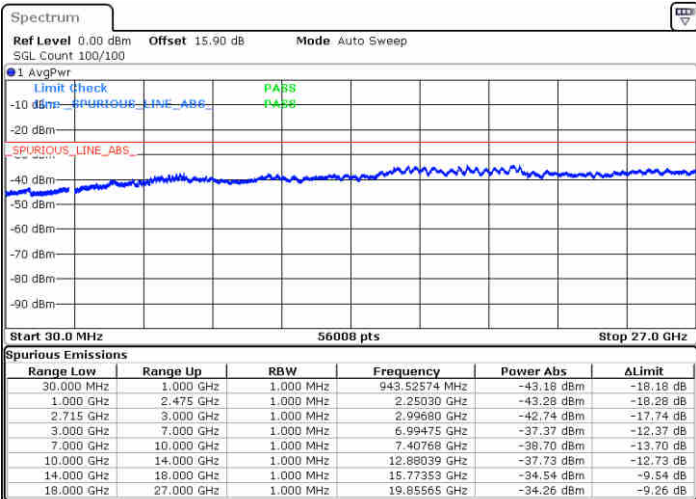


Date: 2.OCT.2017 17:17:32

Date: 2.OCT.2017 17:18:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2.OCT.2017 17:19:21

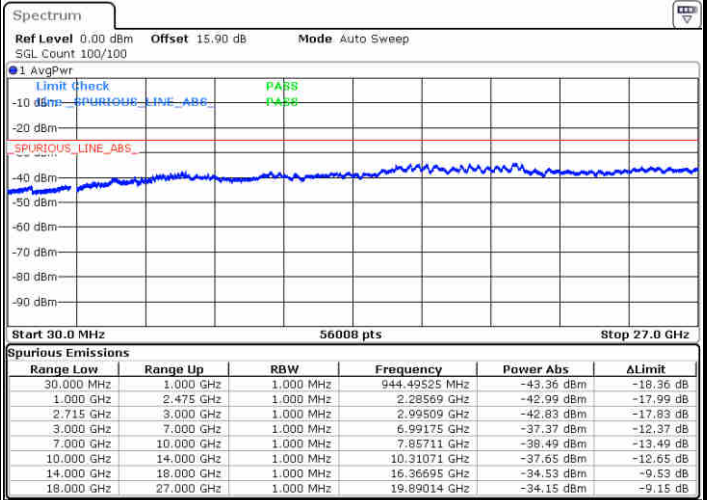
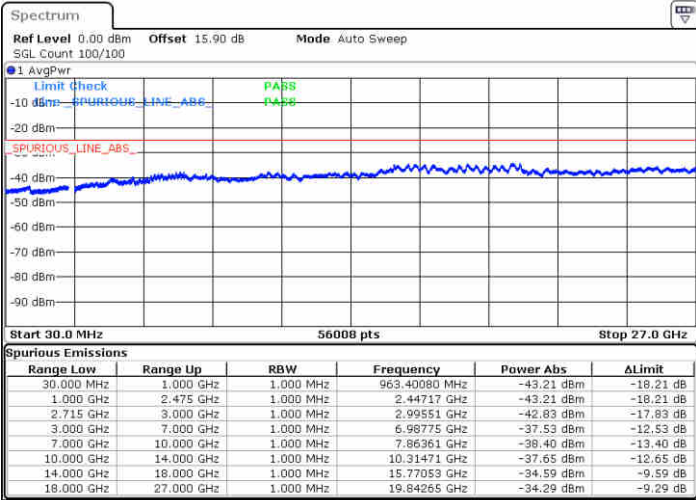
Date: 2.OCT.2017 17:20:15



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

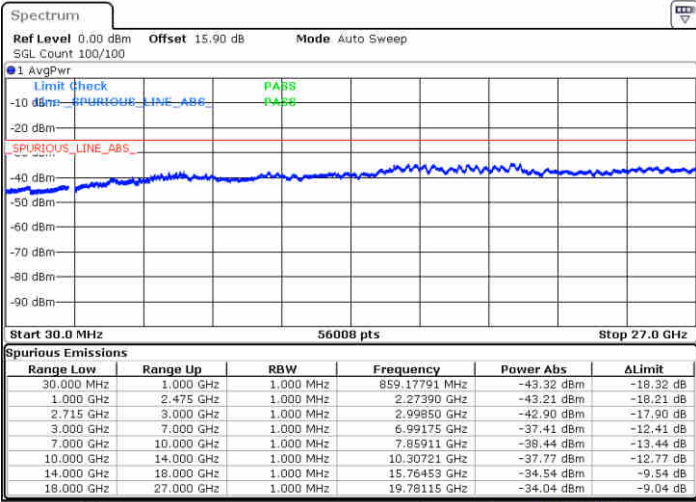
Middle Channel / 64QAM



Date: 2.OCT.2017 18:01:49

Date: 2.OCT.2017 18:02:43

Highest Channel / 64QAM



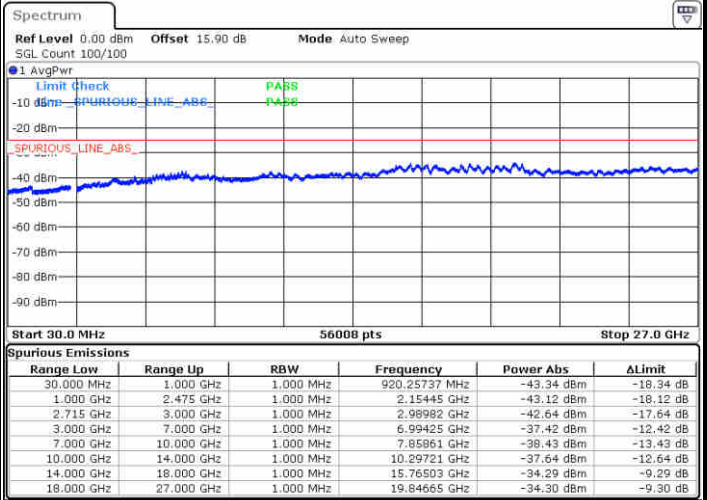
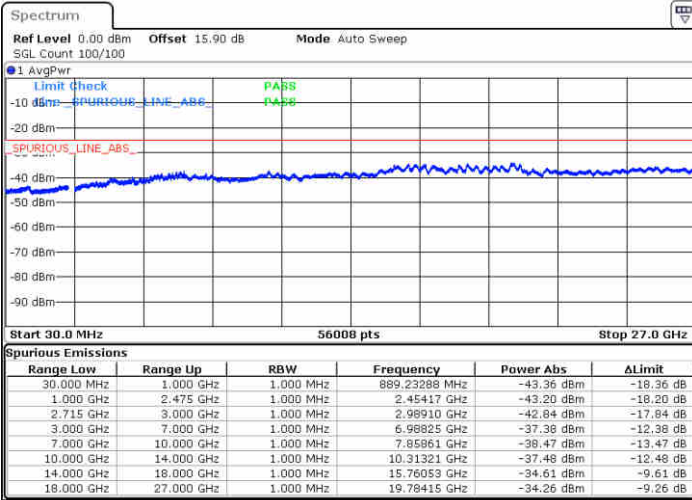
Date: 2.OCT.2017 18:03:37



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

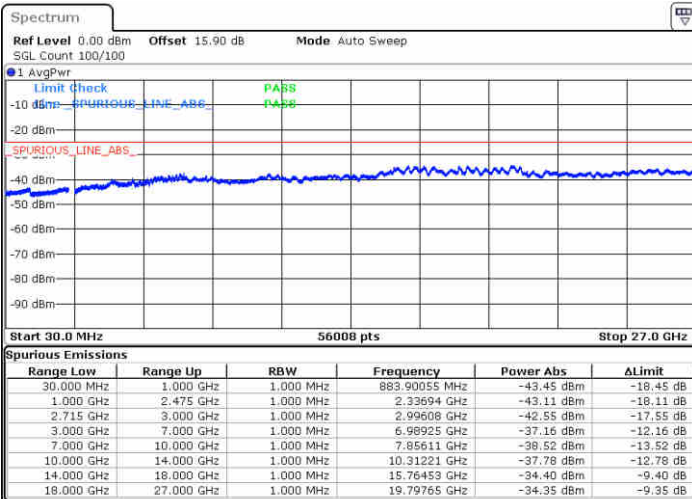
Middle Channel / 64QAM



Date: 2.OCT.2017 18:04:31

Date: 2.OCT.2017 18:05:26

Highest Channel / 64QAM



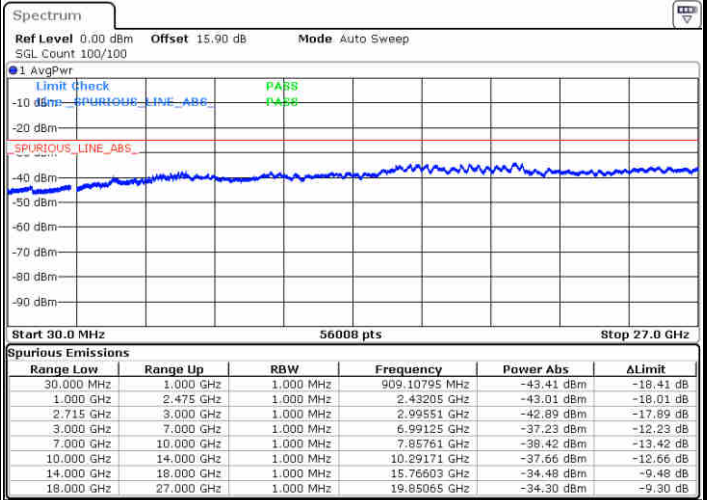
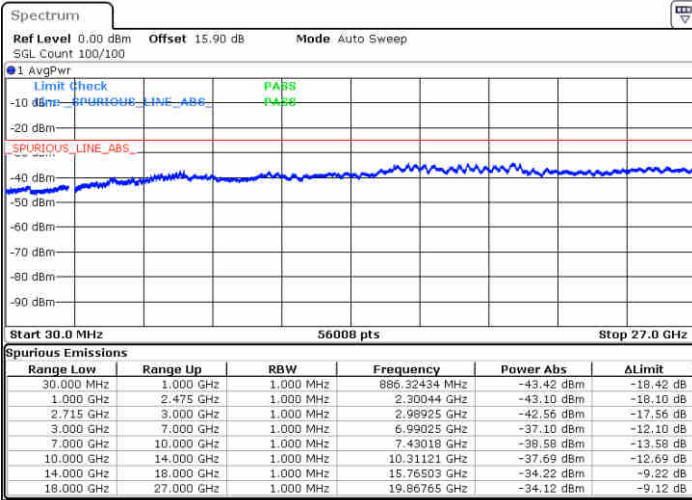
Date: 2.OCT.2017 18:06:20



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

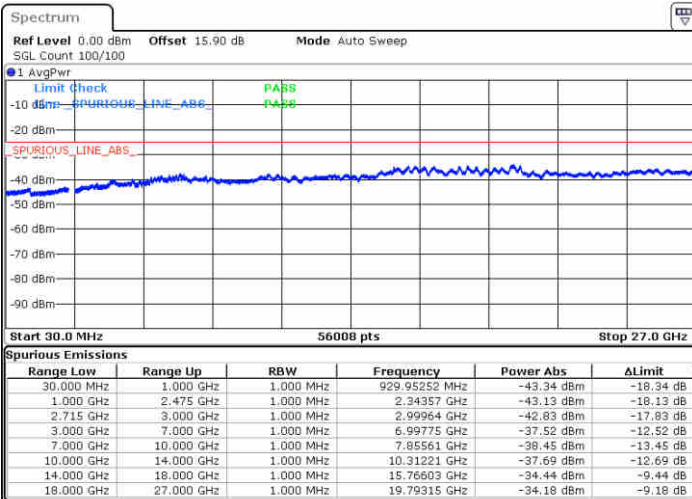
Middle Channel / 64QAM



Date: 2.OCT.2017 18:07:14

Date: 2.OCT.2017 18:08:08

Highest Channel / 64QAM



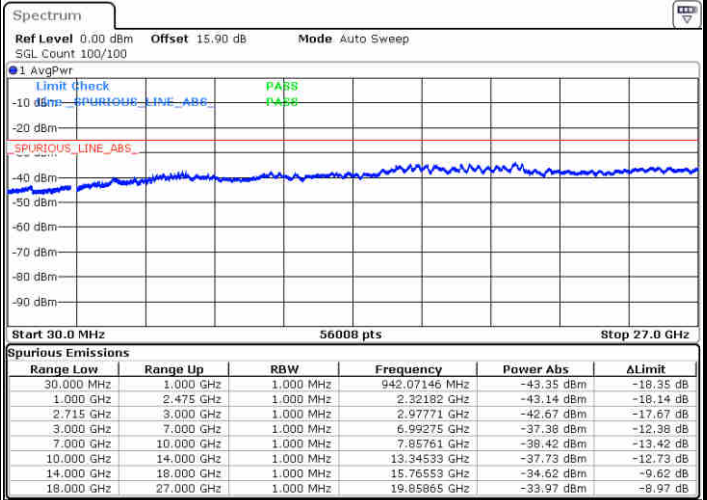
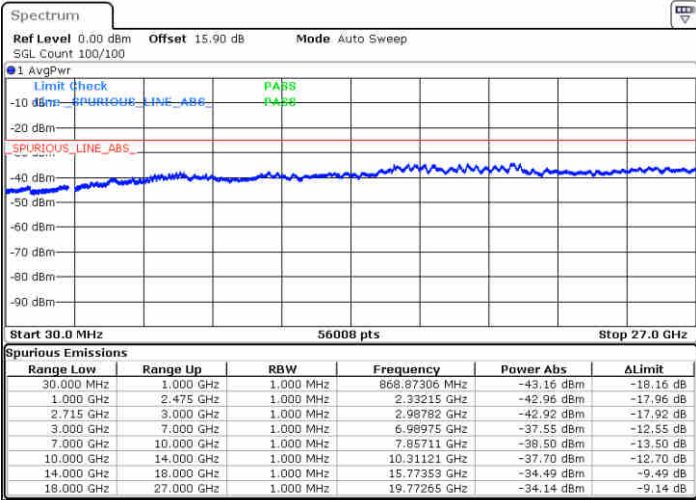
Date: 2.OCT.2017 18:09:02



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

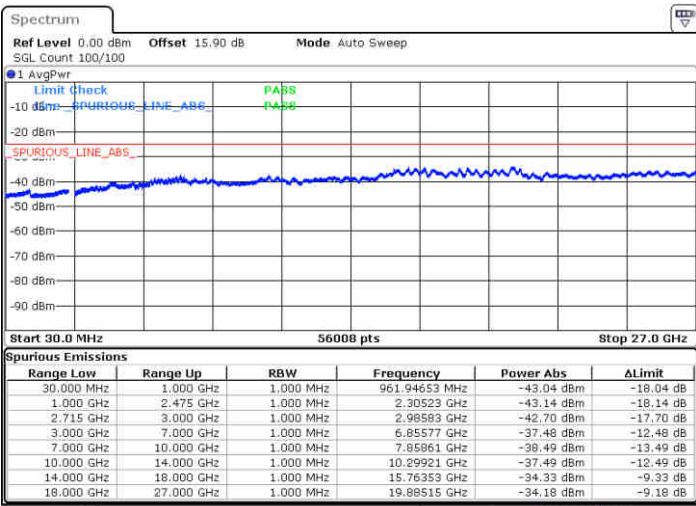
Middle Channel / 64QAM



Date: 2.OCT.2017 18:09:56

Date: 2.OCT.2017 18:10:50

Highest Channel / 64QAM



Date: 2.OCT.2017 18:11:45





Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0034	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.135 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Within Band
		Frequency Offset ( $\Delta f$ ) (Hz)	Result
50	Normal Voltage	2	PASS
40	Normal Voltage	2.1	
30	Normal Voltage	9.4	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	6.9	
0	Normal Voltage	-9.2	
-10	Normal Voltage	7.2	
-20	Normal Voltage	4.2	
-30	Normal Voltage	9.7	
20	Maximum Voltage	-8.7	
20	Normal Voltage	0	
20	Battery End Point	-1.2	

$|\text{MAX}(\Delta f)| = 9.7\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L -  \text{MAX}(\Delta f) $	2500.158990	$\geq 2500 \text{ MHz}$	PASS
$f_H +  \text{MAX}(\Delta f) $	2689.826010	$\leq 2690 \text{ MHz}$	



# LTE Band 41\_CA

## 26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)			
QPSK				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	25.025	29.79	30.569	34.685
Middle CH	25.025	29.91	30.569	34.825
Highest CH	24.975	29.91	30.569	34.825
BW	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	25.075	30.03	34.825	39.83
Middle CH	25.075	30.03	34.895	39.71
Highest CH	25.025	29.85	34.755	39.71

Mode	LTE Band 41 : 26dB BW (MHz)			
16QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	24.825	29.85	30.689	34.755
Middle CH	24.825	29.91	30.509	34.825
Highest CH	24.875	29.67	30.509	34.755
BW	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	24.925	30.15	32.447	39.71
Middle CH	25.075	29.97	32.447	39.48
Highest CH	25.225	29.97	33.006	39.83

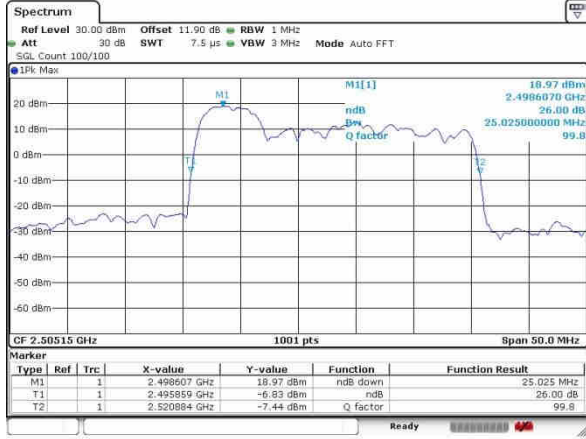
Mode	LTE Band 41 : 26dB BW (MHz)			
64QAM				
BW	5MHz+20MHz	10MHz+20MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	24.825	29.91	30.569	34.755
Middle CH	24.825	29.85	30.569	34.825
Highest CH	24.675	29.97	30.509	34.895
BW	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	24.875	29.91	35.035	39.83
Middle CH	25.125	30.03	34.825	39.94
Highest CH	25.125	29.91	34.825	39.83



LTE Band 41

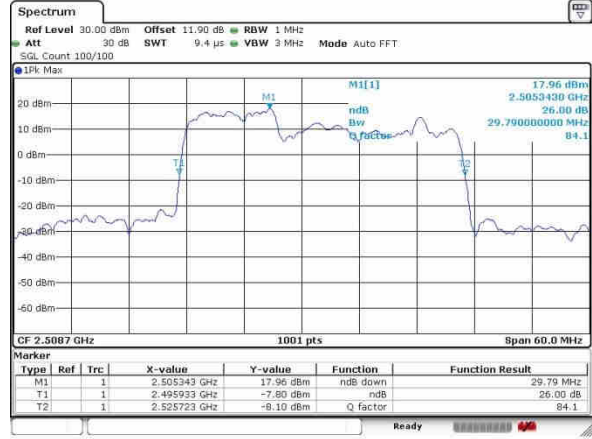
QPSK

Lowest Channel / 5MHz+20MHz



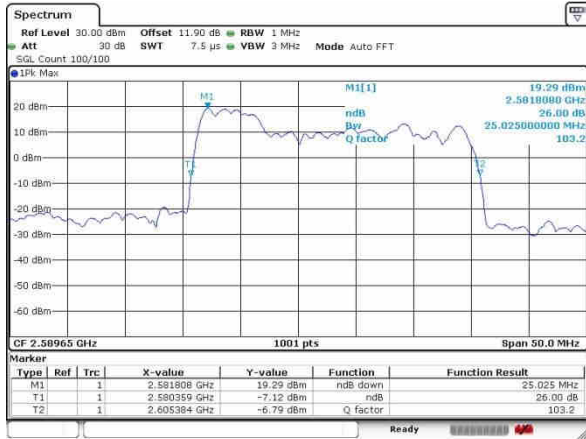
Date: 29 SEP 2017 19:36:04

Lowest Channel / 10MHz+20MHz



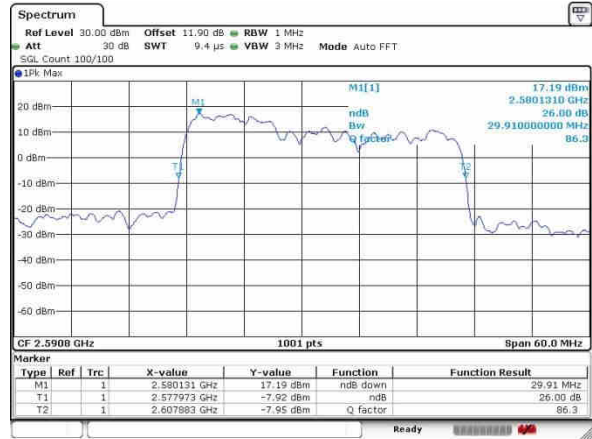
Date: 29 SEP 2017 21:13:02

Middle Channel / 5MHz+20MHz



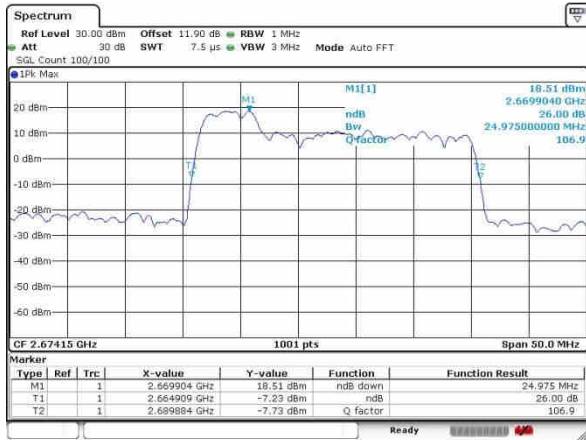
Date: 29 SEP 2017 19:50:23

Middle Channel / 10MHz+20MHz



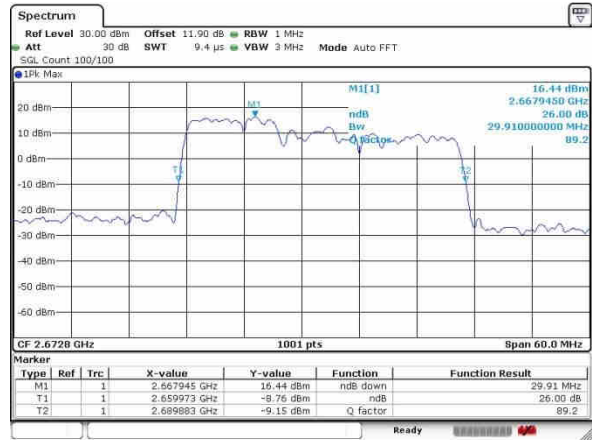
Date: 29 SEP 2017 21:14:24

Highest Channel / 5MHz+20MHz



Date: 29 SEP 2017 20:11:35

Highest Channel / 10MHz+20MHz



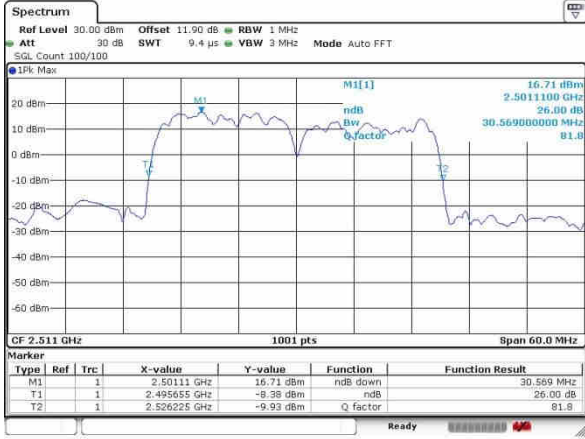
Date: 29 SEP 2017 21:18:44



LTE Band 41

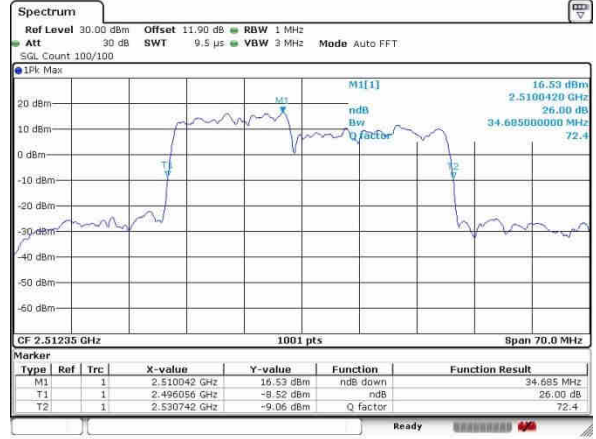
QPSK

Lowest Channel / 15MHz+15MHz



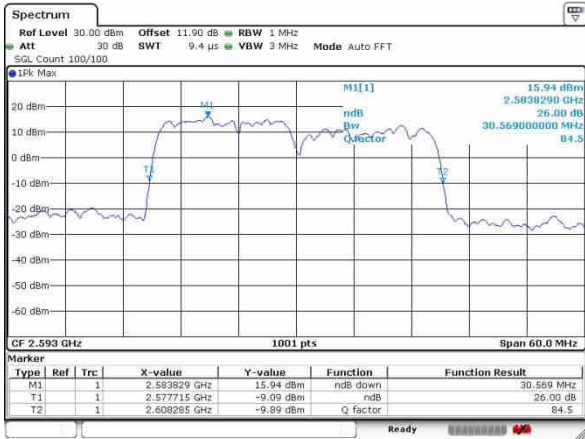
Date: 29 SEP 2017 23:47:17

Lowest Channel / 15MHz+20MHz



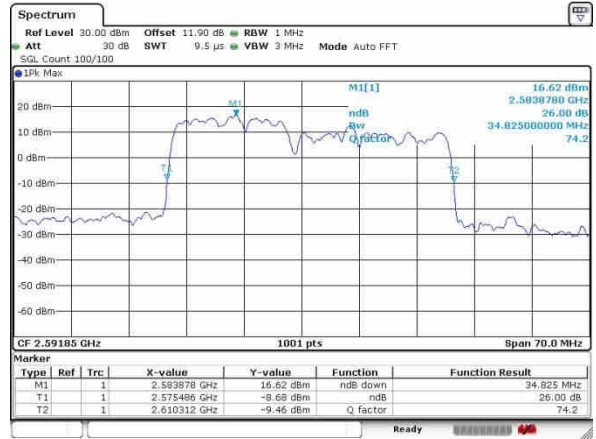
Date: 30 SEP 2017 01:13:08

Middle Channel / 15MHz+15MHz



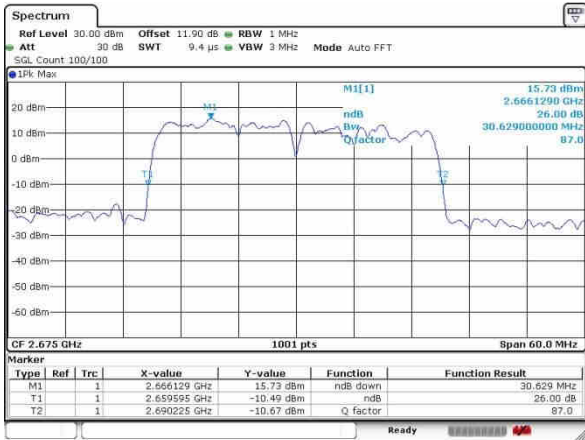
Date: 30 SEP 2017 00:09:43

Middle Channel / 15MHz+20MHz



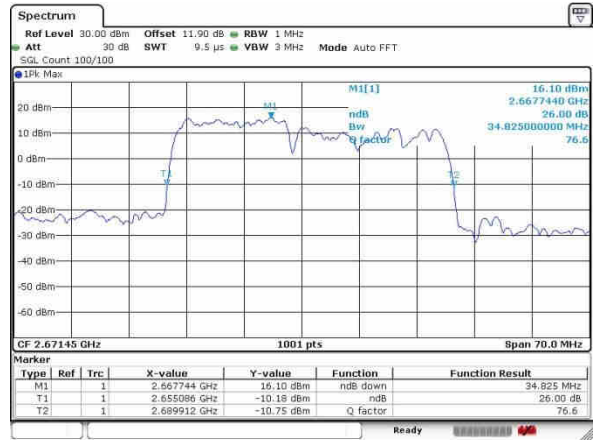
Date: 30 SEP 2017 01:14:05

Highest Channel / 15MHz+15MHz



Date: 30 SEP 2017 00:31:07

Highest Channel / 15MHz+20MHz



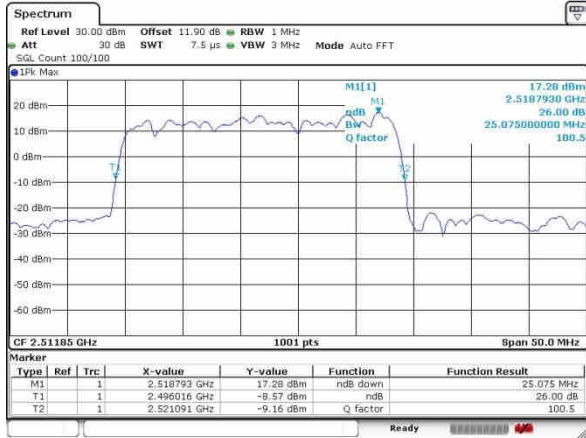
Date: 30 SEP 2017 01:17:58



LTE Band 41

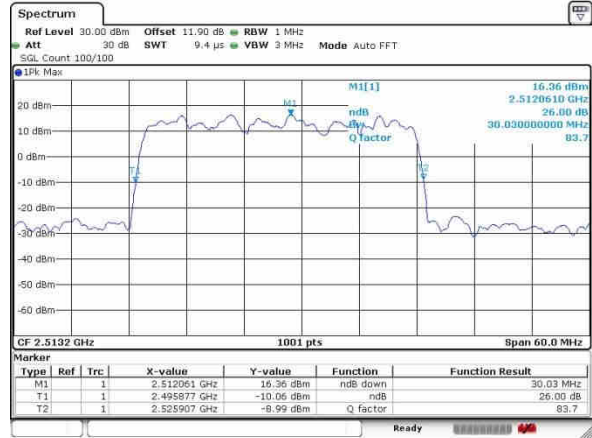
QPSK

Lowest Channel / 20MHz+5MHz



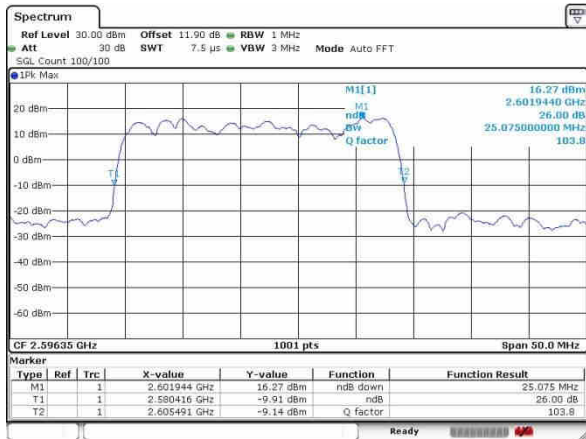
Date: 29 SEP 2017 20:33:08

Lowest Channel / 20MHz+10MHz



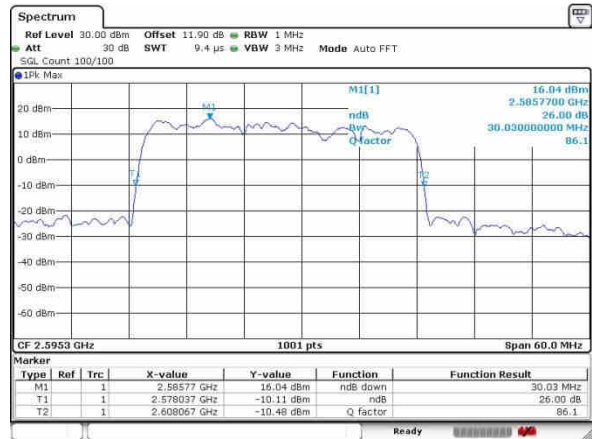
Date: 29 SEP 2017 22:53:50

Middle Channel / 20MHz+5MHz



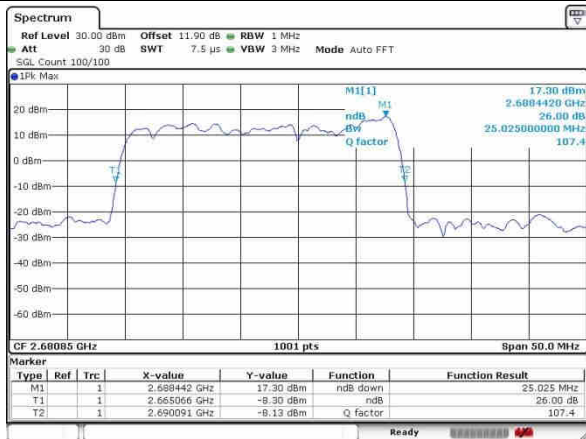
Date: 29 SEP 2017 20:38:35

Middle Channel / 20MHz+10MHz



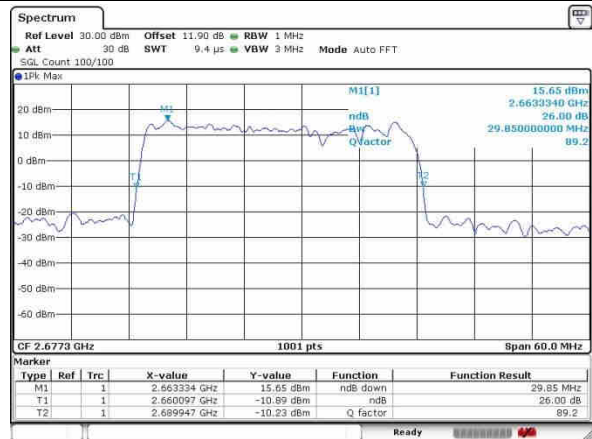
Date: 29 SEP 2017 22:54:58

Highest Channel / 20MHz+5MHz



Date: 29 SEP 2017 20:46:26

Highest Channel / 20MHz+10MHz



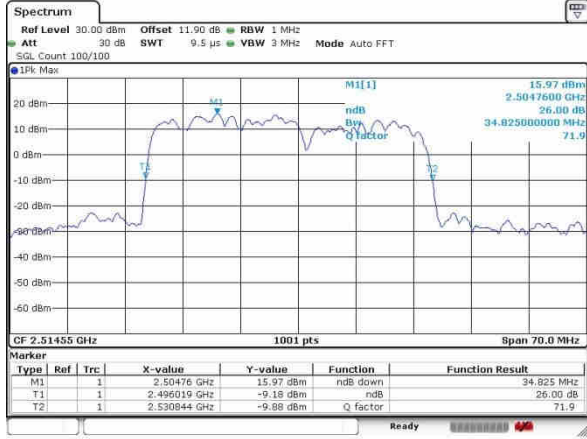
Date: 29 SEP 2017 23:04:36



LTE Band 41

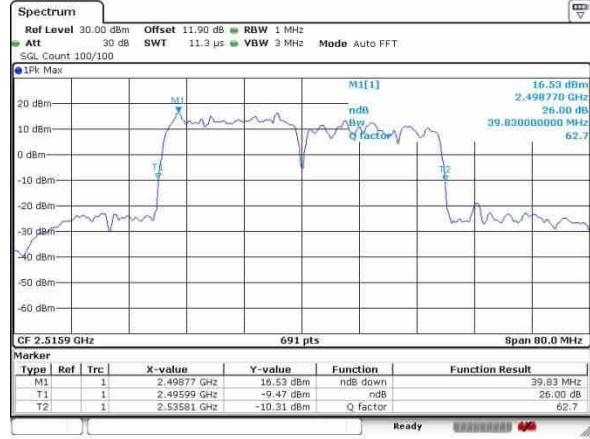
QPSK

Lowest Channel / 20MHz+15MHz



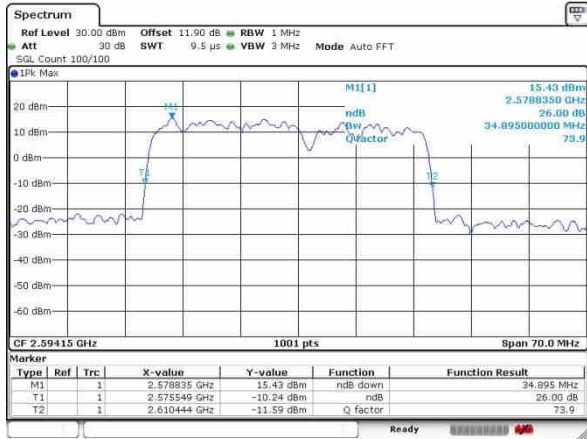
Date: 30 SEP 2017 01:40:29

Lowest Channel / 20MHz+20MHz



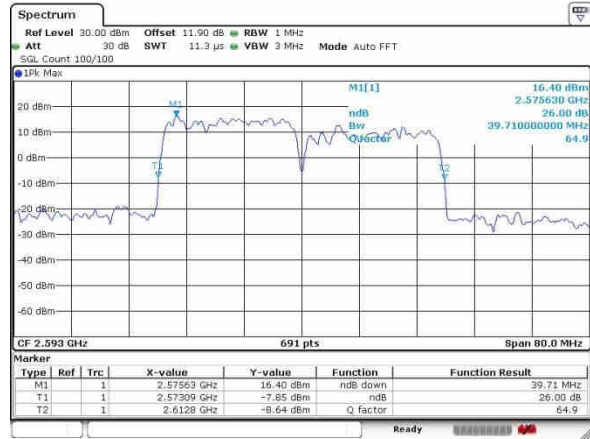
Date: 30 SEP 2017 12:39:04

Middle Channel / 20MHz+15MHz



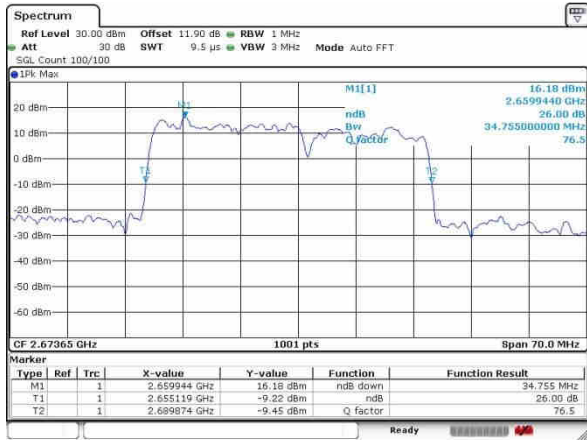
Date: 30 SEP 2017 01:41:31

Middle Channel / 20MHz+20MHz



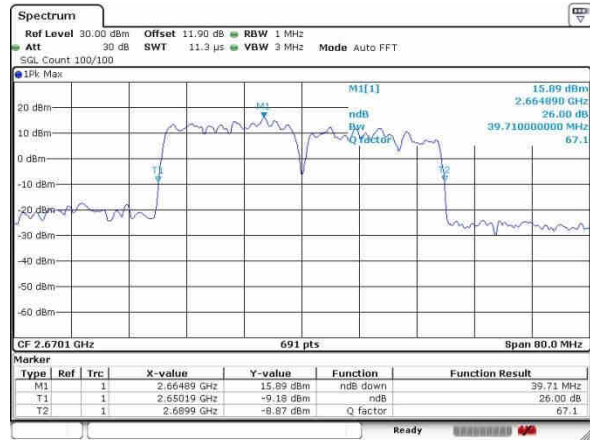
Date: 30 SEP 2017 12:45:56

Highest Channel / 20MHz+15MHz



Date: 30 SEP 2017 01:45:30

Highest Channel / 20MHz+20MHz



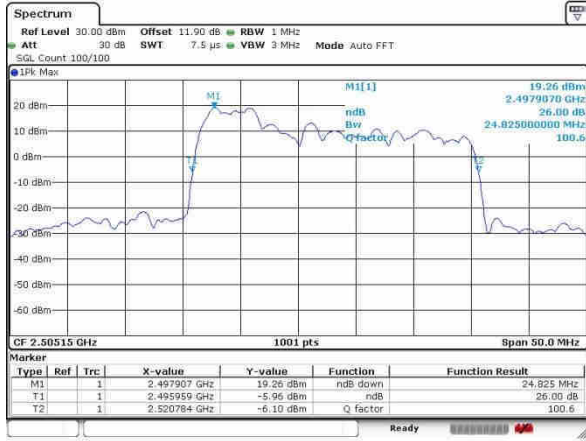
Date: 30 SEP 2017 12:47:16



LTE Band 41

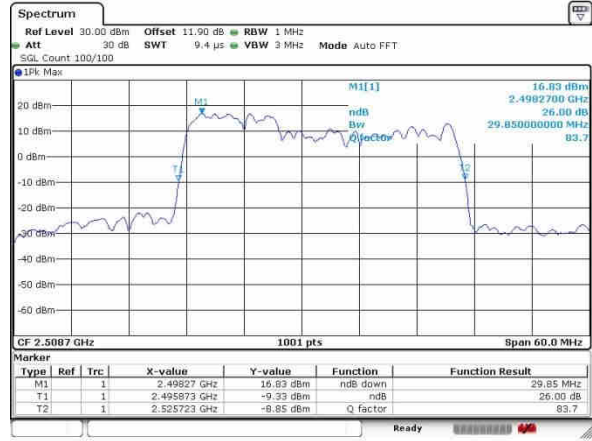
16QAM

Lowest Channel / 5MHz+20MHz



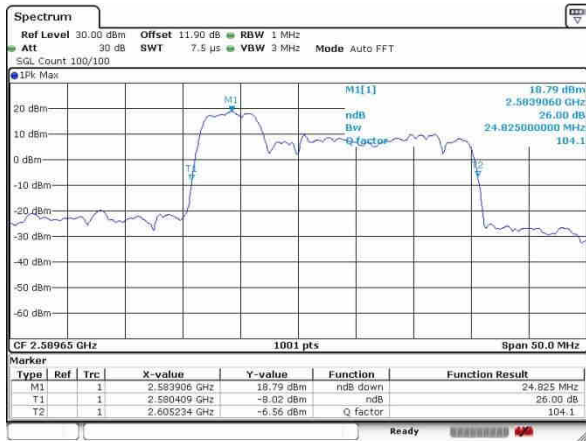
Date: 29 SEP 2017 19:42:27

Lowest Channel / 10MHz+20MHz



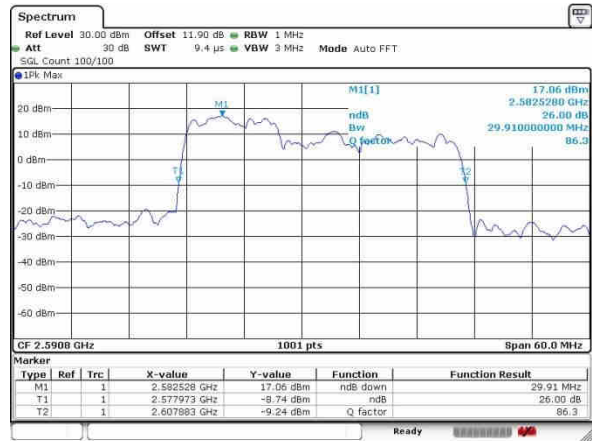
Date: 29 SEP 2017 21:12:43

Middle Channel / 5MHz+20MHz



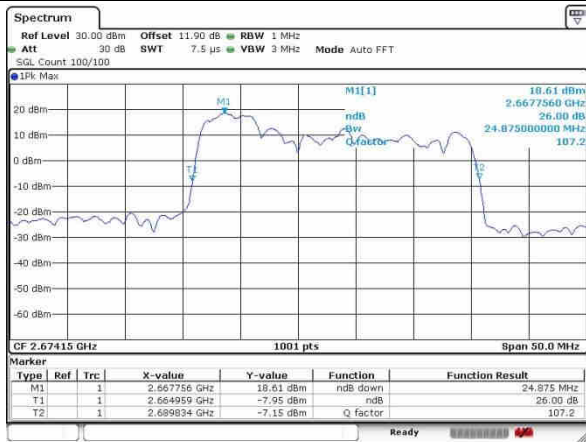
Date: 29 SEP 2017 19:50:12

Middle Channel / 10MHz+20MHz



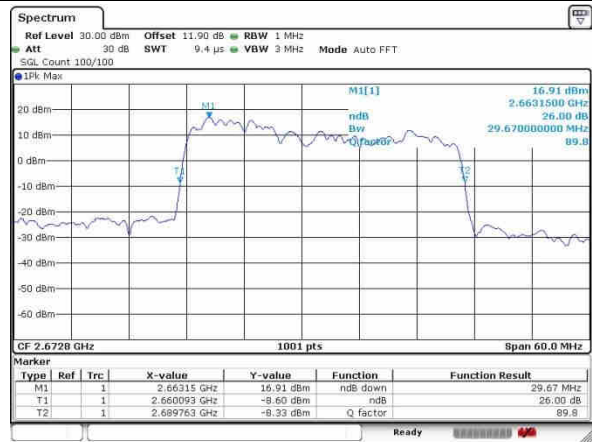
Date: 29 SEP 2017 21:14:46

Highest Channel / 5MHz+20MHz



Date: 29 SEP 2017 20:11:19

Highest Channel / 10MHz+20MHz



Date: 29 SEP 2017 21:18:31

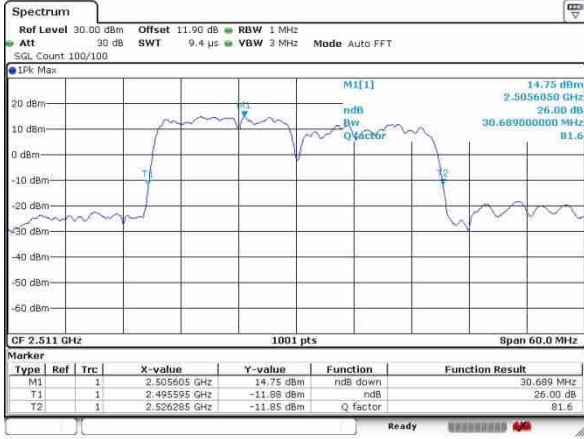




LTE Band 41

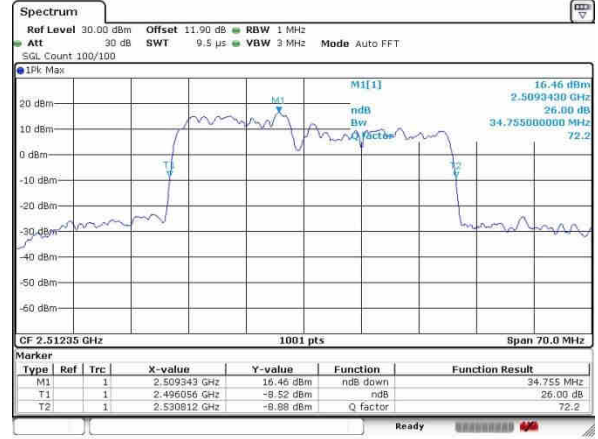
16QAM

Lowest Channel / 15MHz+15MHz



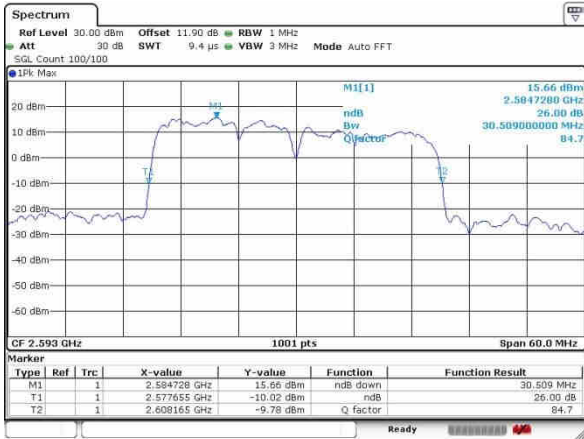
Date: 29 SEP 2017 23:47:04

Lowest Channel / 15MHz+20MHz



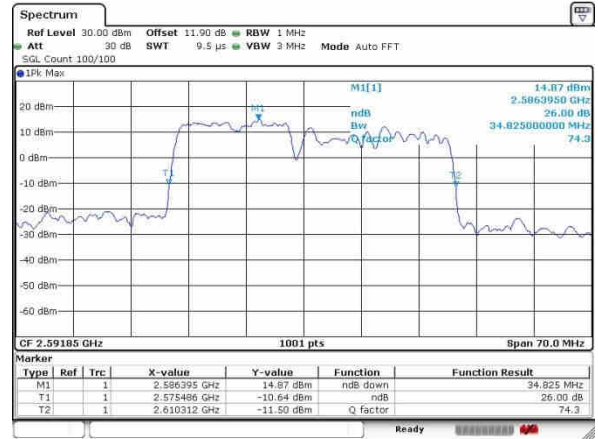
Date: 30 SEP 2017 01:12:56

Middle Channel / 15MHz+15MHz



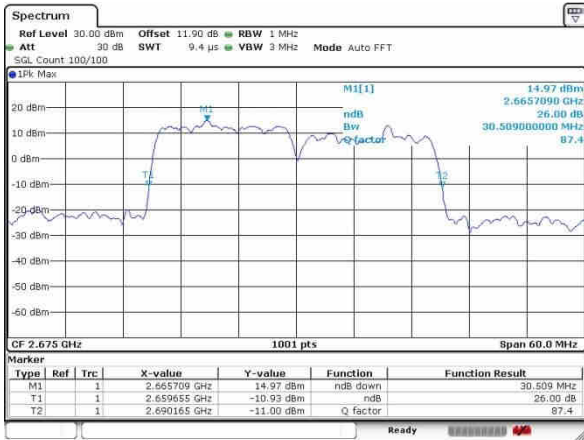
Date: 30 SEP 2017 00:11:52

Middle Channel / 15MHz+20MHz



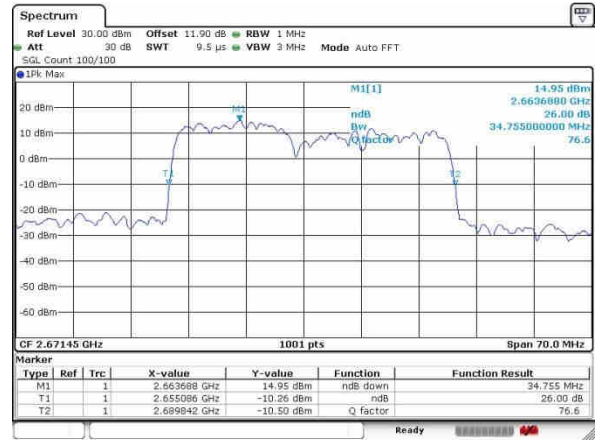
Date: 30 SEP 2017 01:14:32

Highest Channel / 15MHz+15MHz



Date: 30 SEP 2017 00:31:28

Highest Channel / 15MHz+20MHz



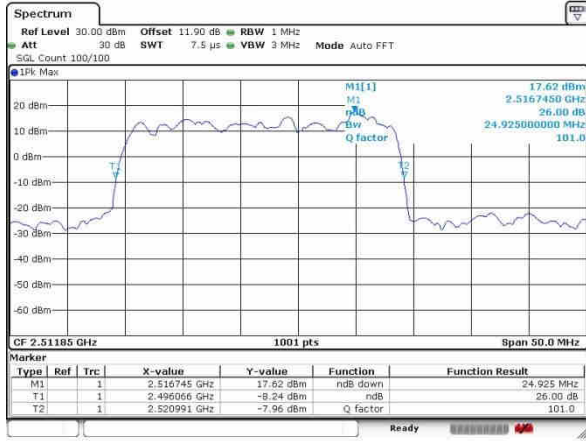
Date: 30 SEP 2017 01:17:42



LTE Band 41

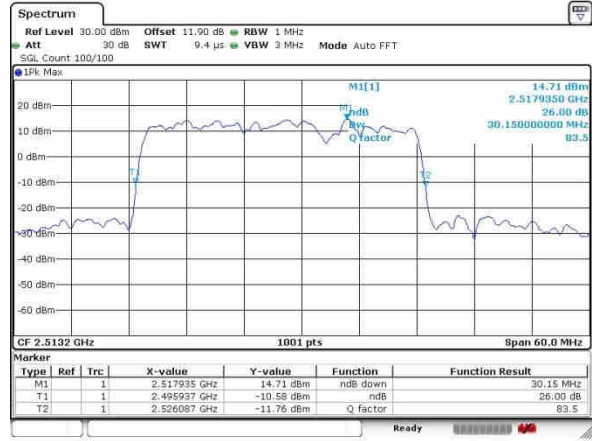
16QAM

Lowest Channel / 20MHz+5MHz



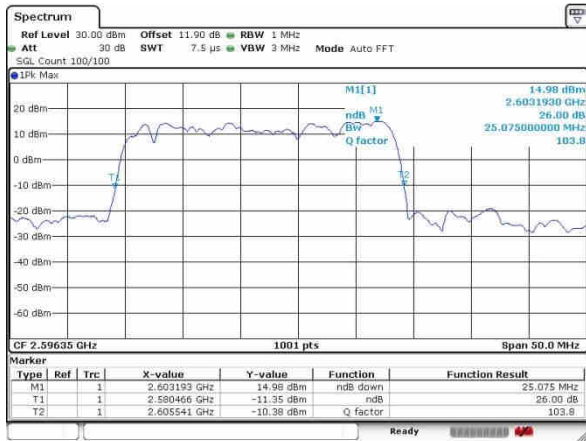
Date: 29 SEP 2017 20:32:54

Lowest Channel / 20MHz+10MHz



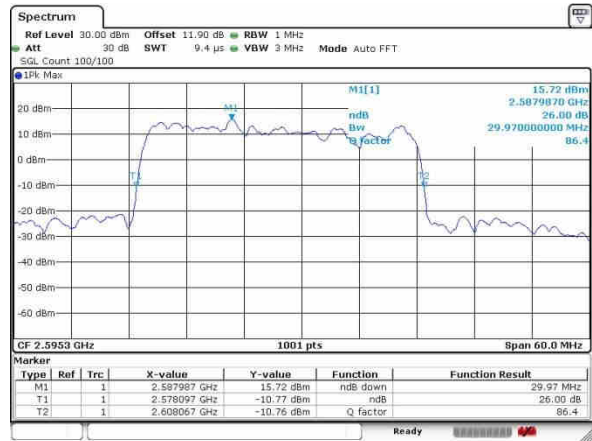
Date: 29 SEP 2017 22:53:34

Middle Channel / 20MHz+5MHz



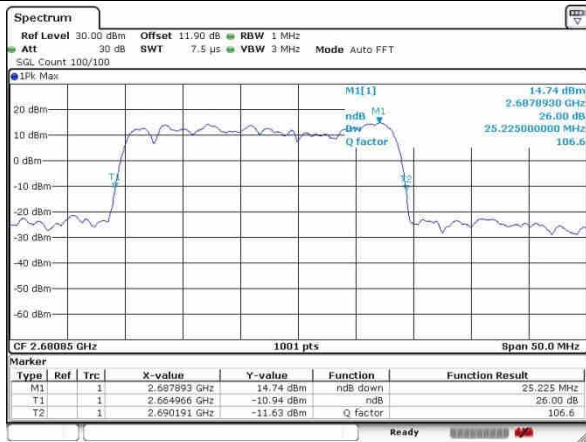
Date: 29 SEP 2017 20:38:00

Middle Channel / 20MHz+10MHz



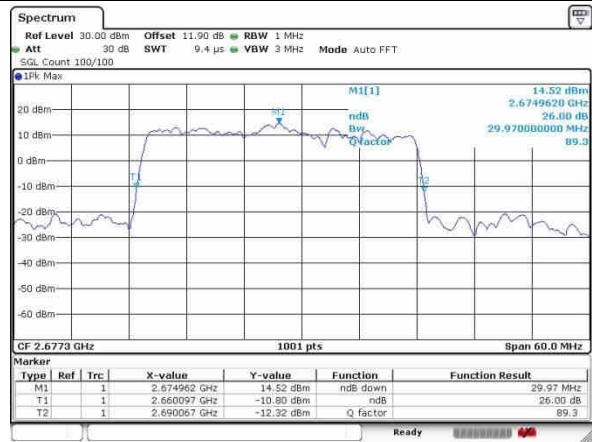
Date: 29 SEP 2017 22:55:27

Highest Channel / 20MHz+5MHz



Date: 29 SEP 2017 20:48:13

Highest Channel / 20MHz+10MHz



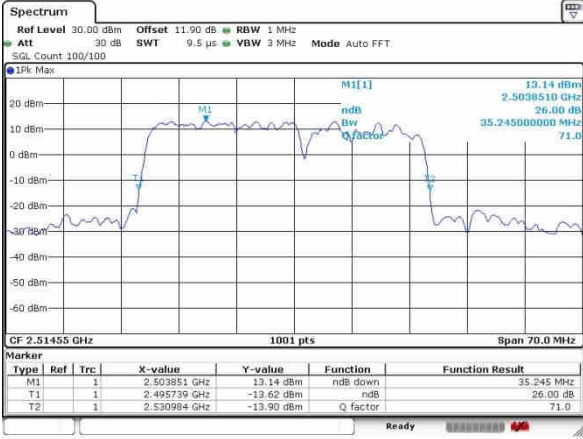
Date: 29 SEP 2017 23:04:11



LTE Band 41

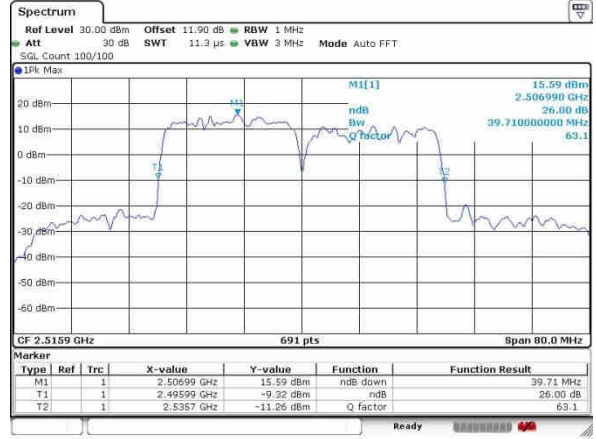
16QAM

Lowest Channel / 20MHz+15MHz



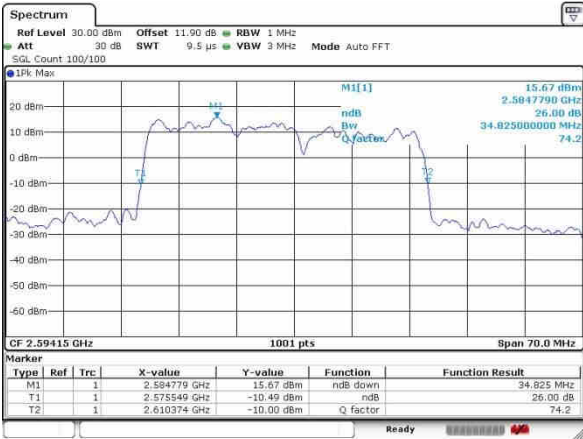
Date: 30 SEP 2017 01:40:18

Lowest Channel / 20MHz+20MHz



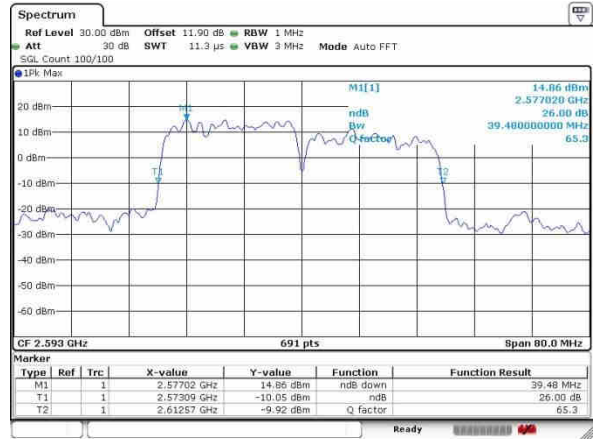
Date: 30 SEP 2017 12:38:50

Middle Channel / 20MHz+15MHz



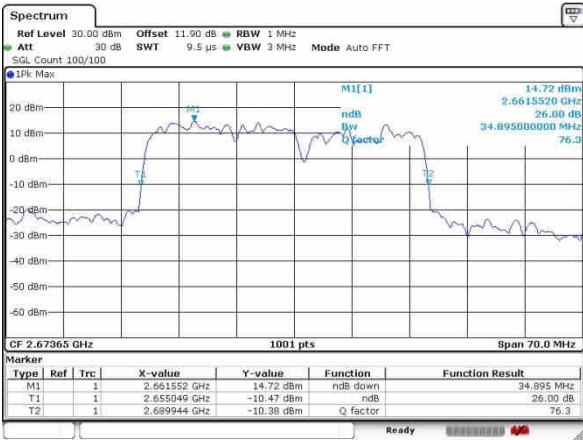
Date: 30 SEP 2017 01:41:49

Middle Channel / 20MHz+20MHz



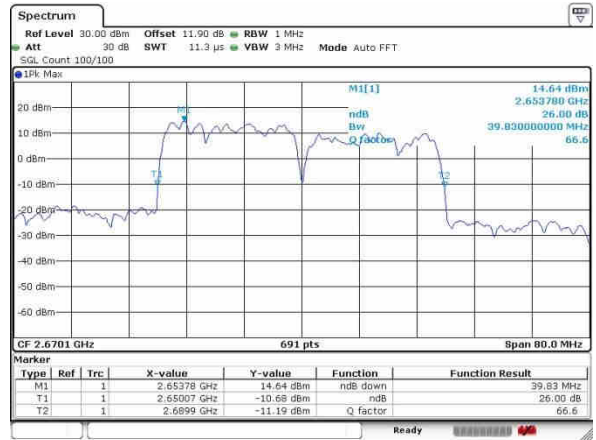
Date: 30 SEP 2017 12:45:47

Highest Channel / 20MHz+15MHz



Date: 30 SEP 2017 01:45:19

Highest Channel / 20MHz+20MHz



Date: 30 SEP 2017 12:47:31