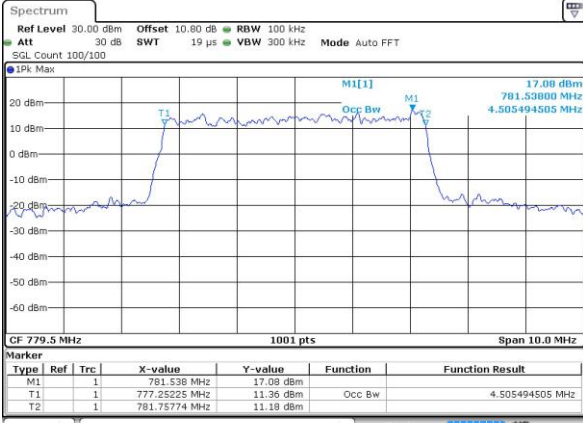




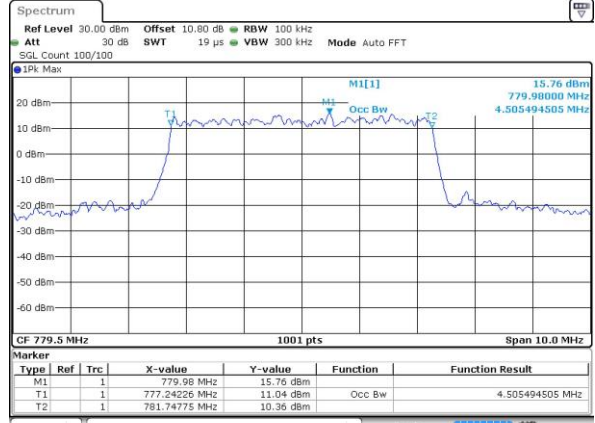
LTE Band 13

Lowest Channel / 5MHz / QPSK



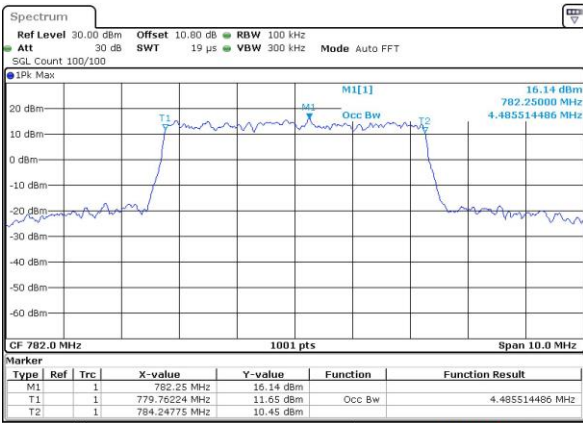
Date: 31 MAR 2018 05:17:27

Lowest Channel / 5MHz / 16QAM



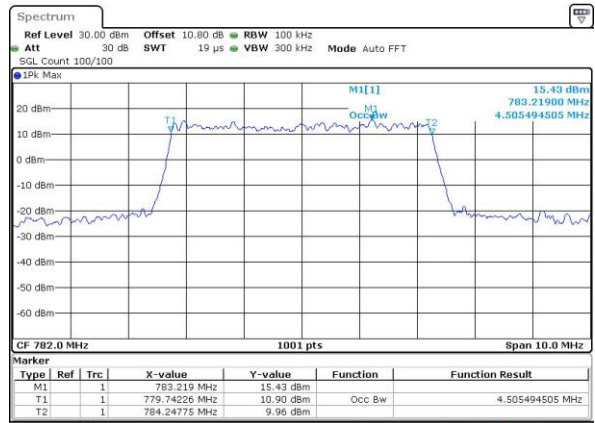
Date: 31 MAR 2018 05:17:37

Middle Channel / 5MHz / QPSK



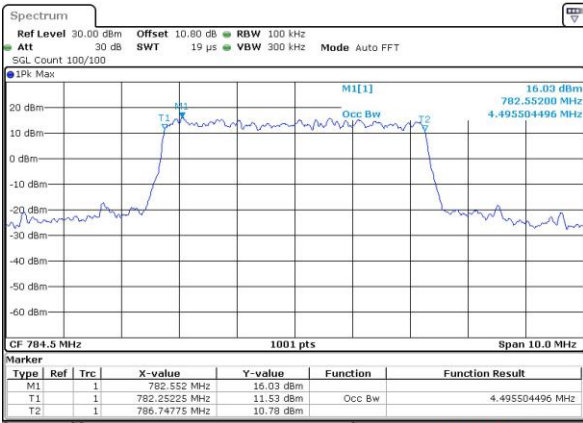
Date: 31 MAR 2018 05:22:15

Middle Channel / 5MHz / 16QAM



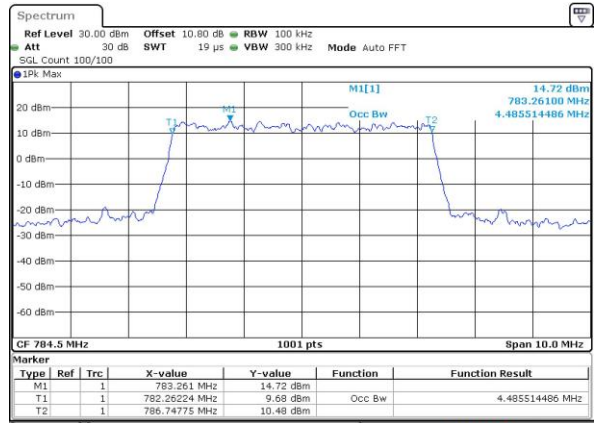
Date: 31 MAR 2018 05:22:05

Highest Channel / 5MHz / QPSK



Date: 31 MAR 2018 05:22:28

Highest Channel / 5MHz / 16QAM

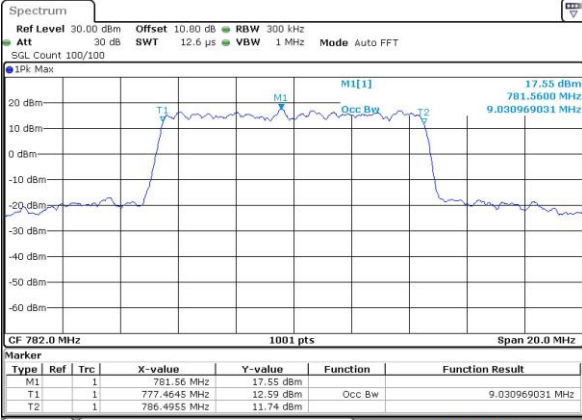


Date: 31 MAR 2018 05:22:36



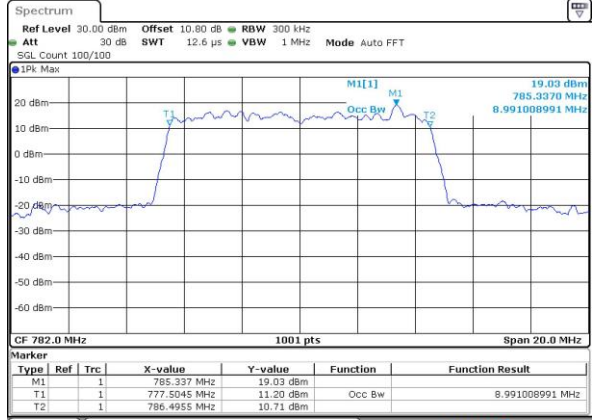
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 31 MAR 2018 05:24:56

Middle Channel / 10MHz / 16QAM

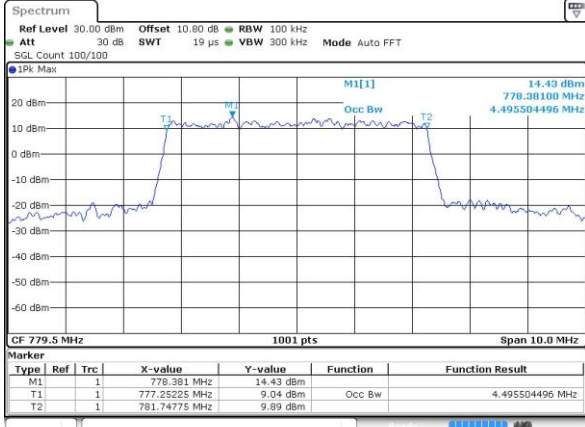


Date: 31 MAR 2018 05:25:07



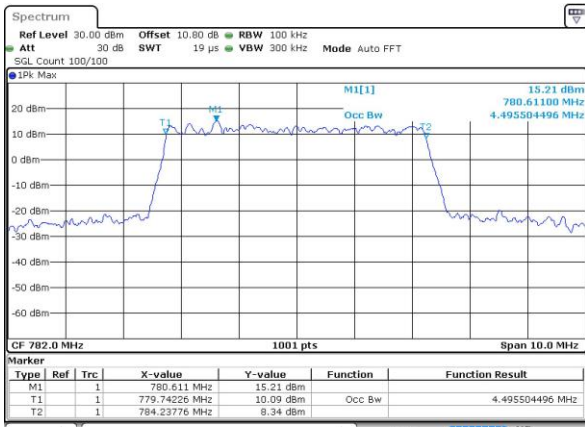
LTE Band 13

Lowest Channel / 5MHz / 64QAM



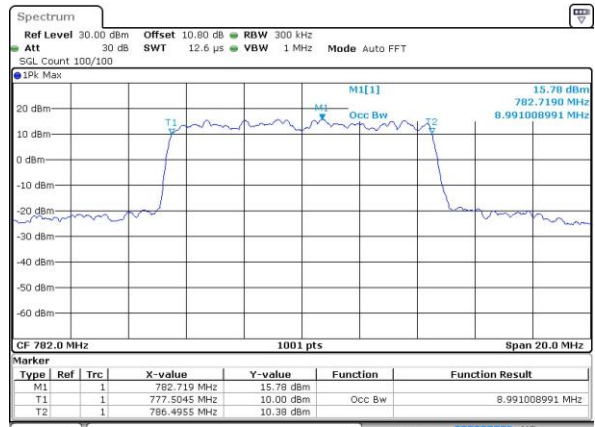
Date: 31 MAR 2018 05:30:28

Middle Channel / 5MHz / 64QAM



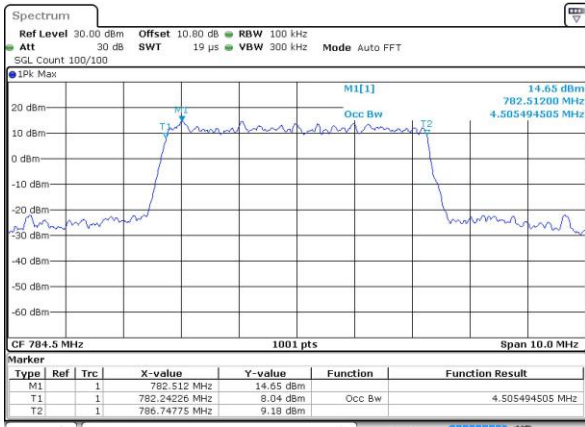
Date: 31 MAR 2018 05:32:45

Middle Channel / 10MHz / 64QAM



Date: 31 MAR 2018 05:34:10

Highest Channel / 5MHz / 64QAM



Date: 31 MAR 2018 05:32:55



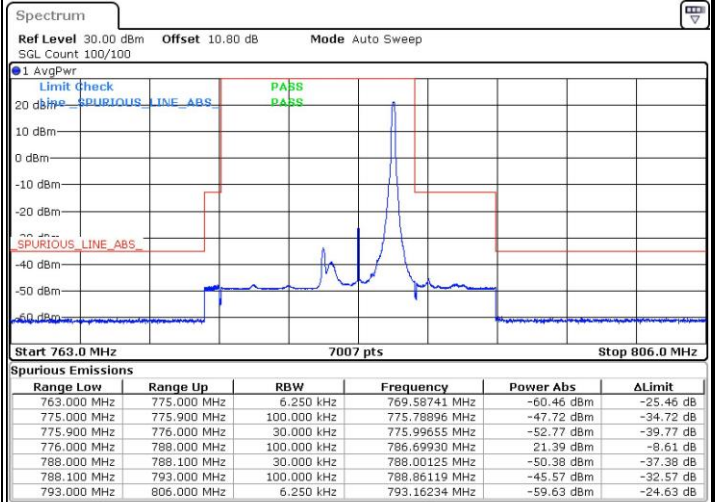
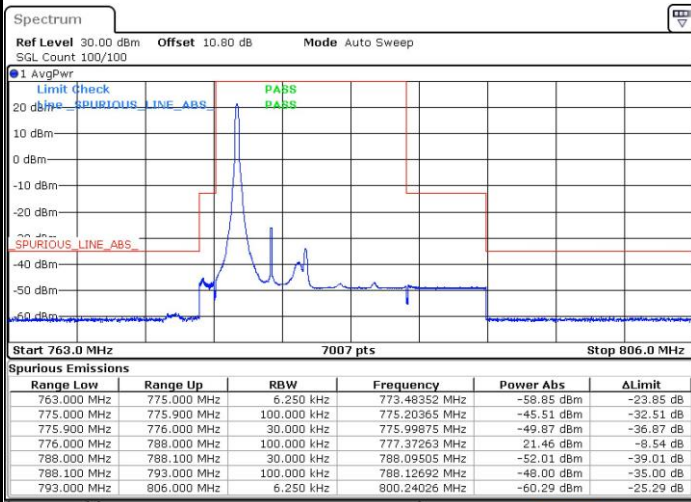
**Conducted Band Edge**



LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

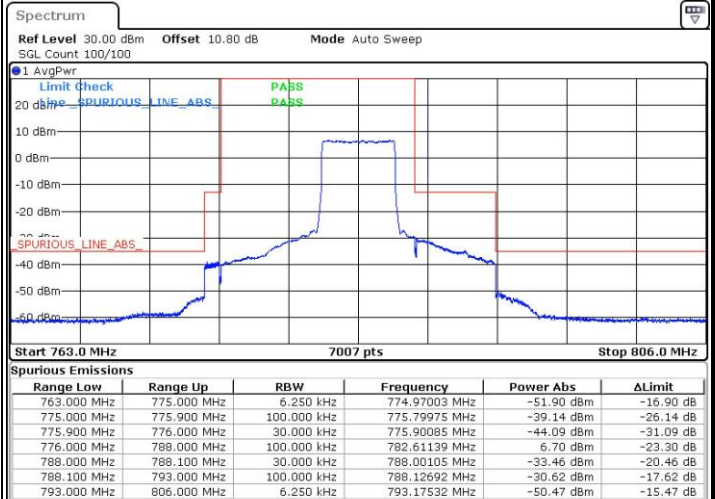
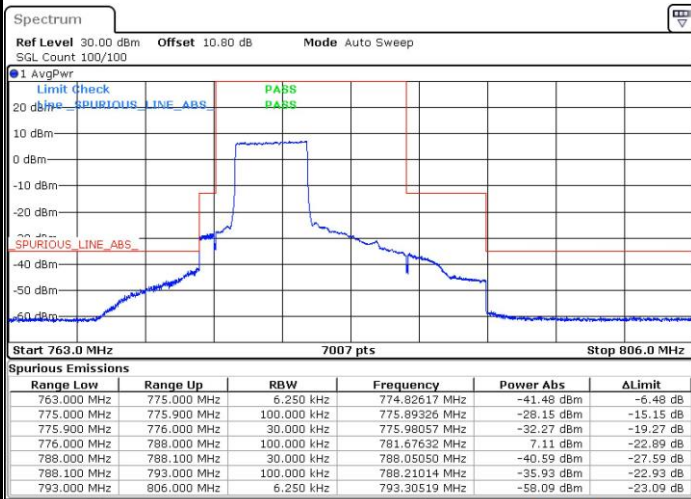


Date: 31.MAR.2018 05:44:33

Date: 31.MAR.2018 05:51:05

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.MAR.2018 05:39:38

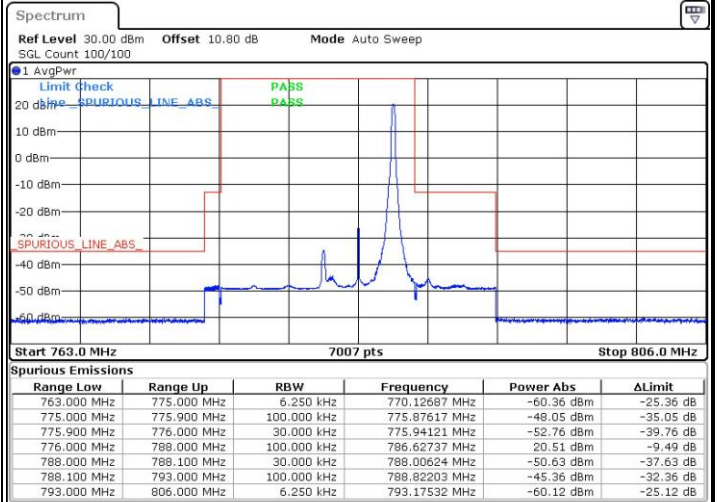
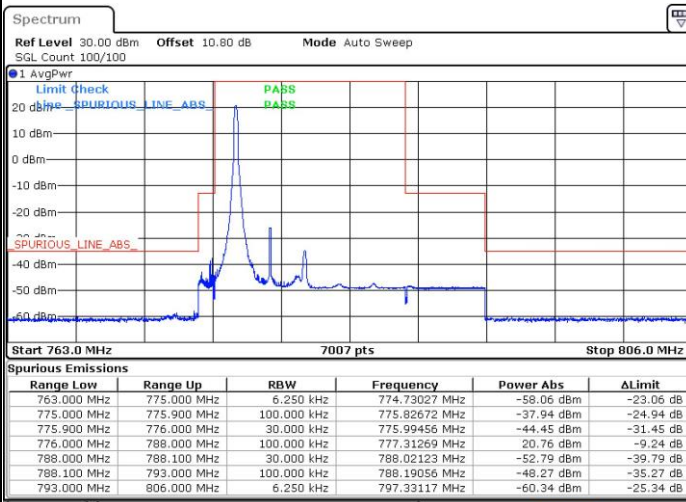
Date: 31.MAR.2018 05:46:11



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

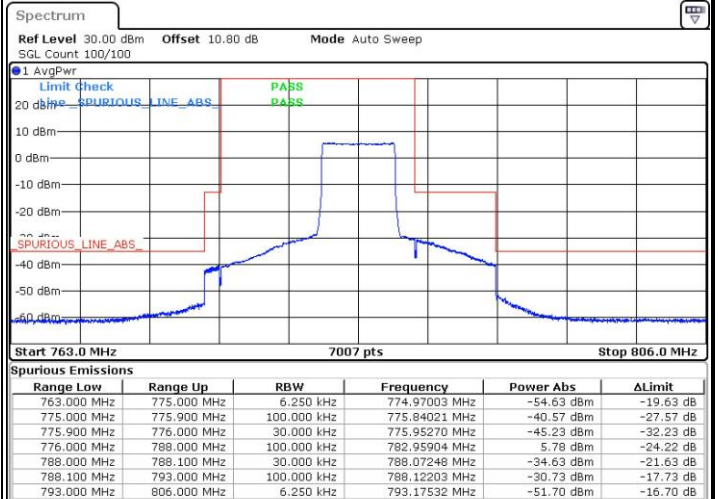
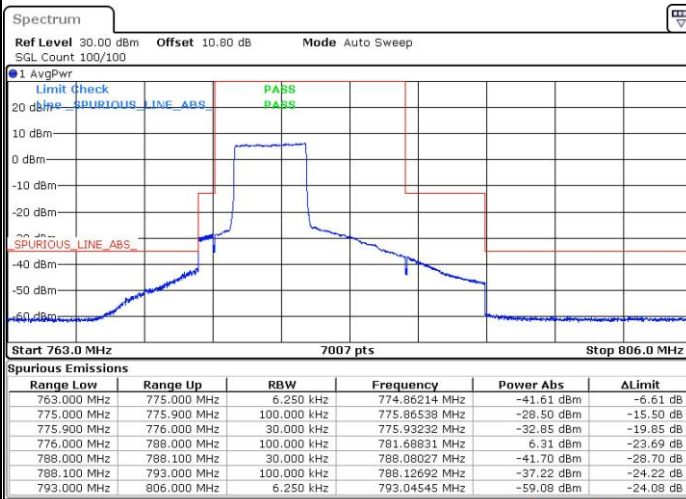


Date: 31.MAR.2018 05:42:55

Date: 31.MAR.2018 05:49:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.MAR.2018 05:41:16

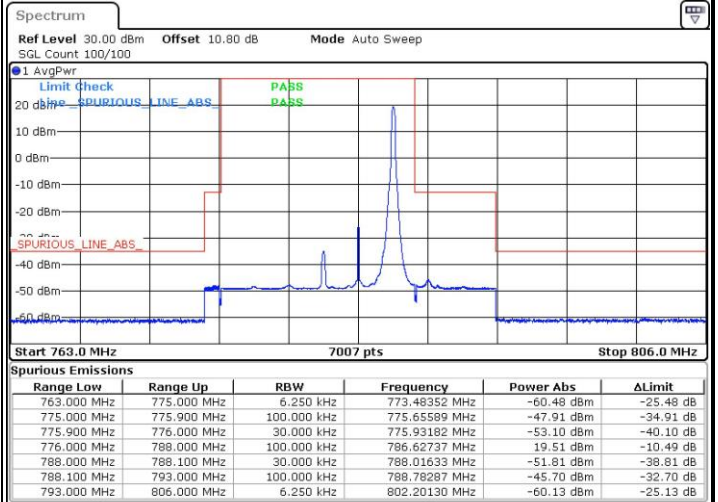
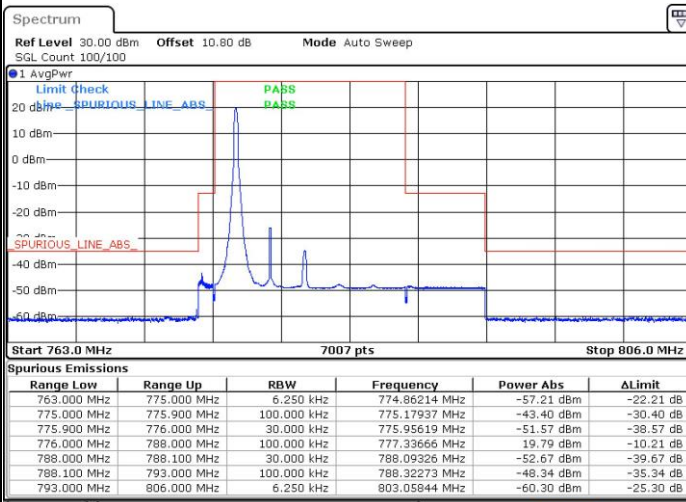
Date: 31.MAR.2018 05:47:49



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

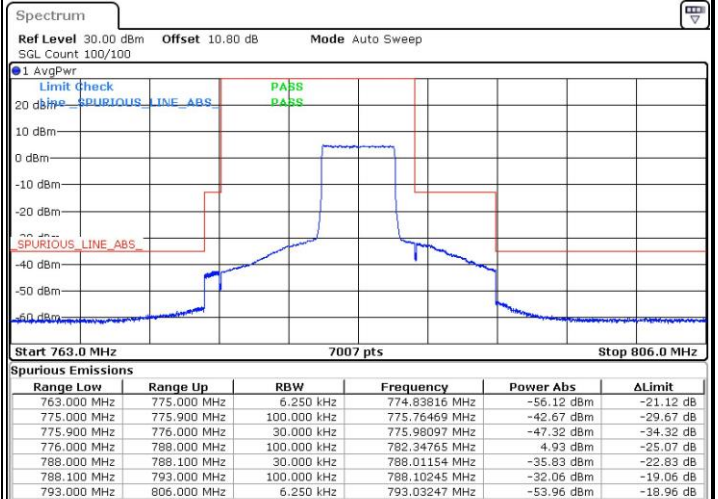
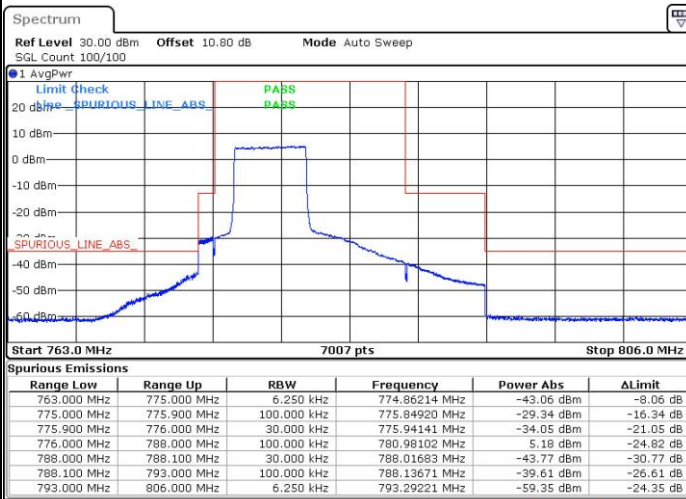


Date: 31.MAR.2018 05:54:22

Date: 31.MAR.2018 05:57:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.MAR.2018 05:52:43

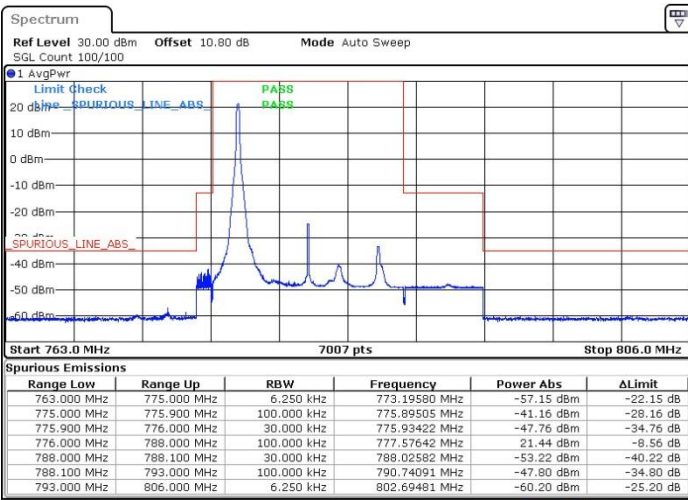
Date: 31.MAR.2018 05:56:00



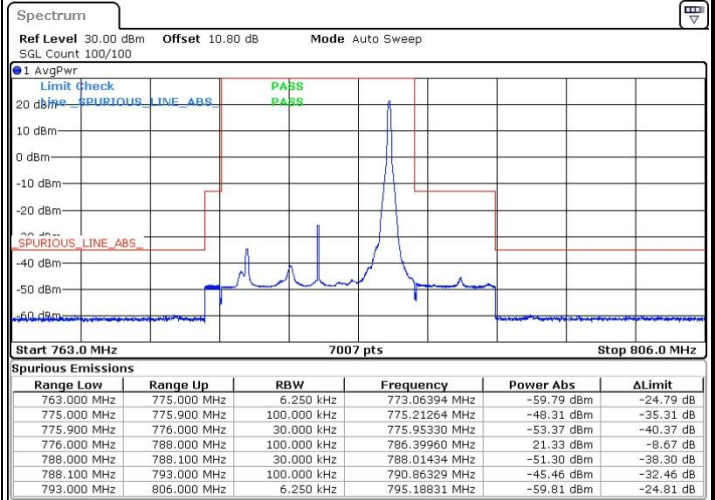
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

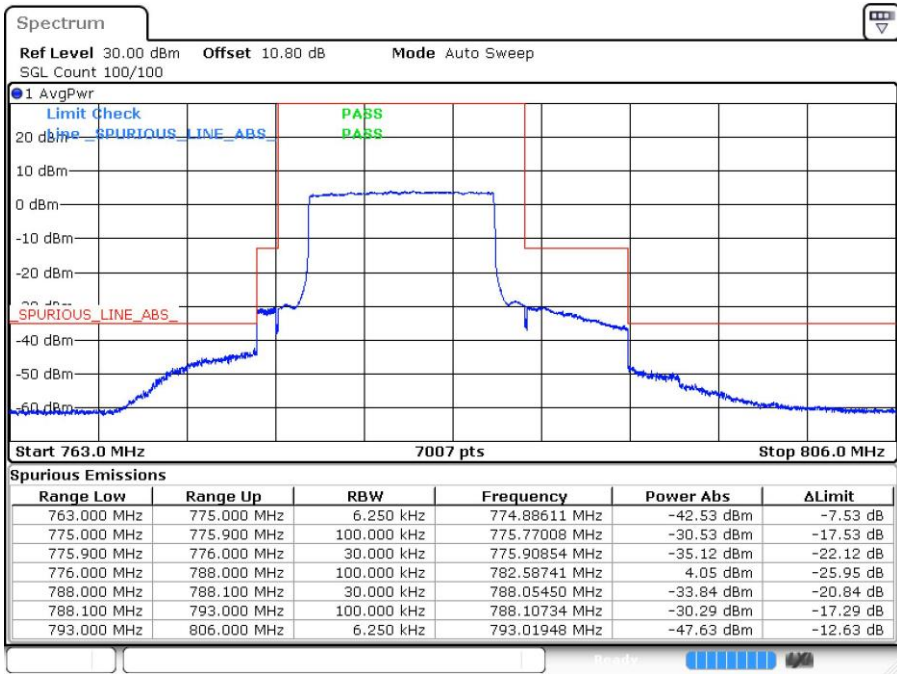


Date: 31.MAR.2018 06:09:04



Date: 31.MAR.2018 06:10:42

Band Edge / Full RB



Date: 31.MAR.2018 06:04:10

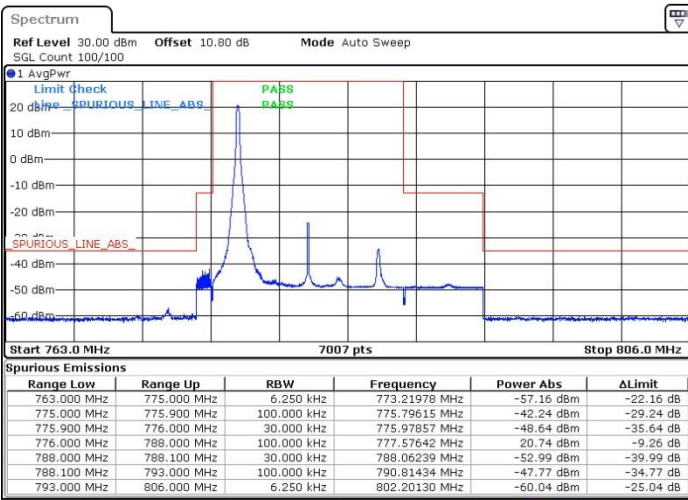




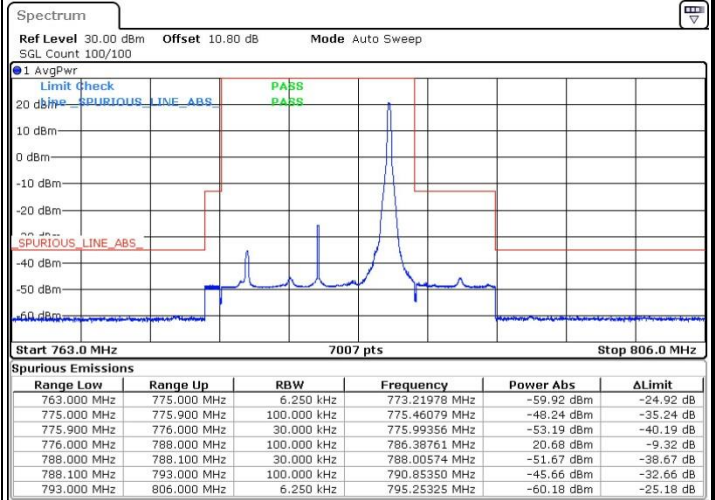
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

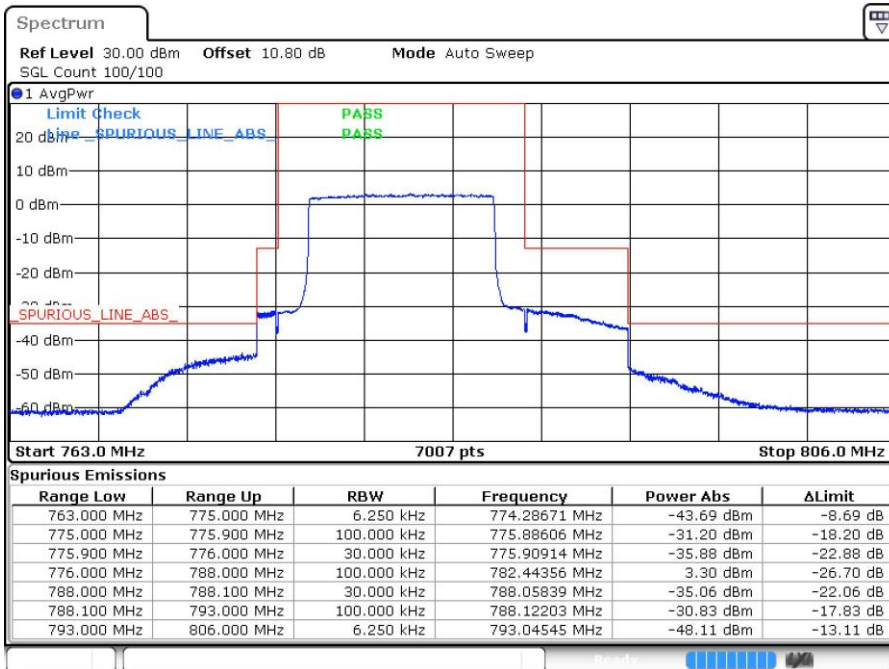


Date: 31.MAR.2018 06:07:26



Date: 31.MAR.2018 06:12:21

Band Edge / Full RB

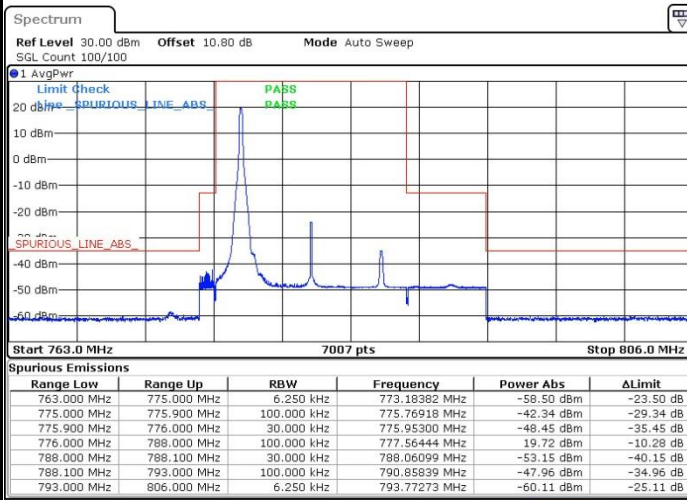


Date: 31.MAR.2018 06:05:48



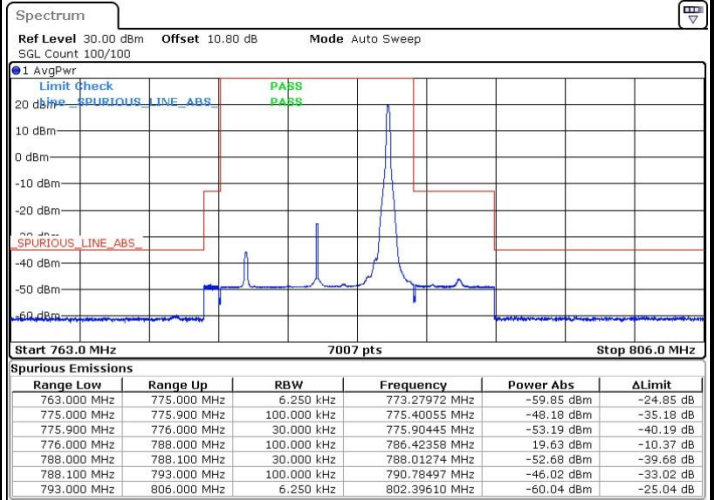
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



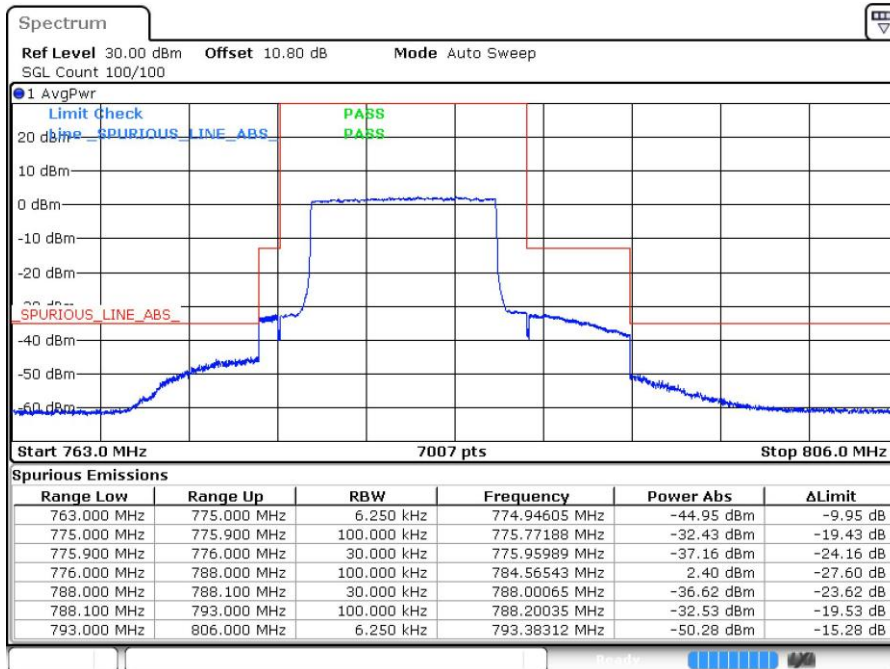
Date: 31.MAR.2018 06:00:54

Highest Band Edge / 1 RB



Date: 31.MAR.2018 06:02:32

Band Edge / Full RB



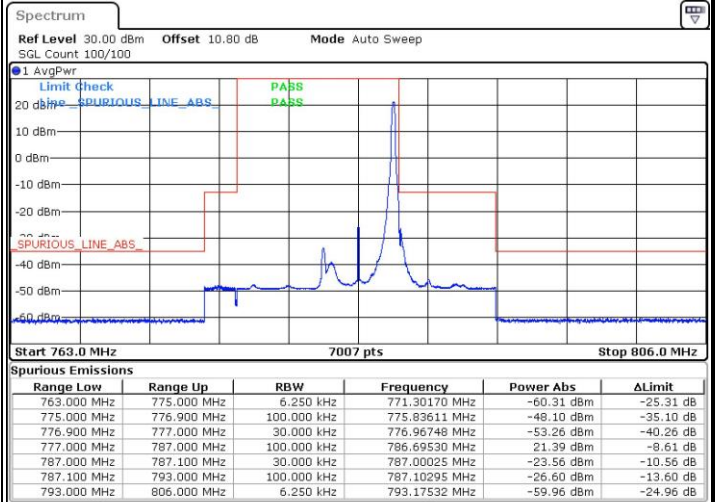
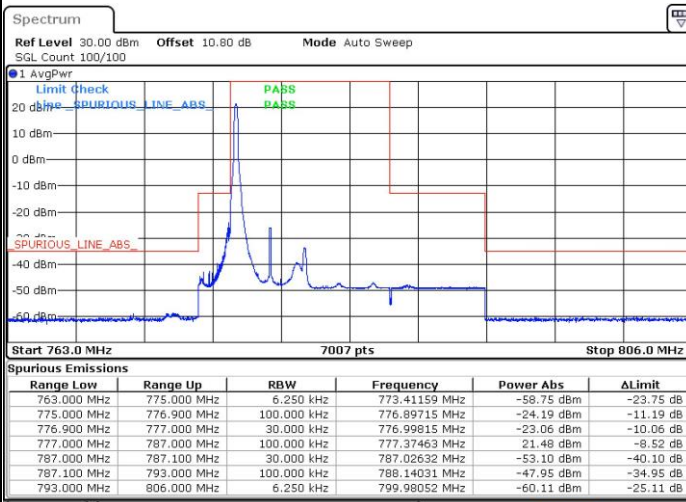
Date: 31.MAR.2018 05:59:16



IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

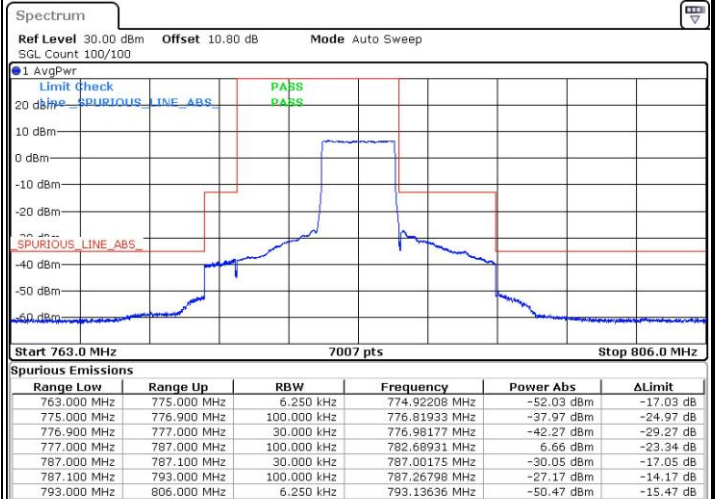
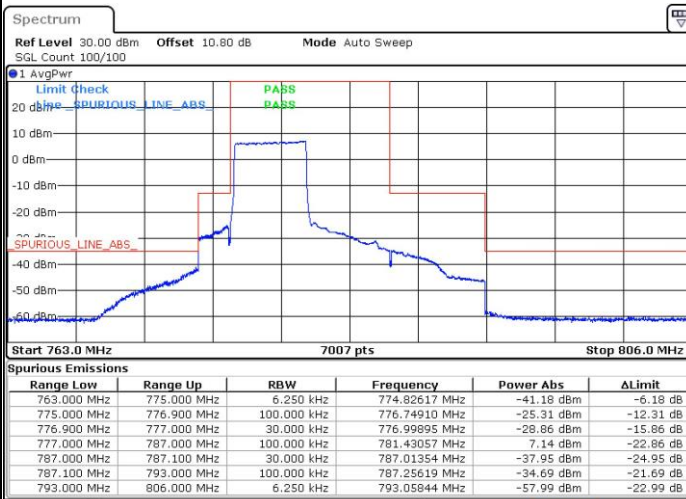


Date: 31.MAR.2018 06:27:56

Date: 31.MAR.2018 06:34:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.MAR.2018 06:23:02

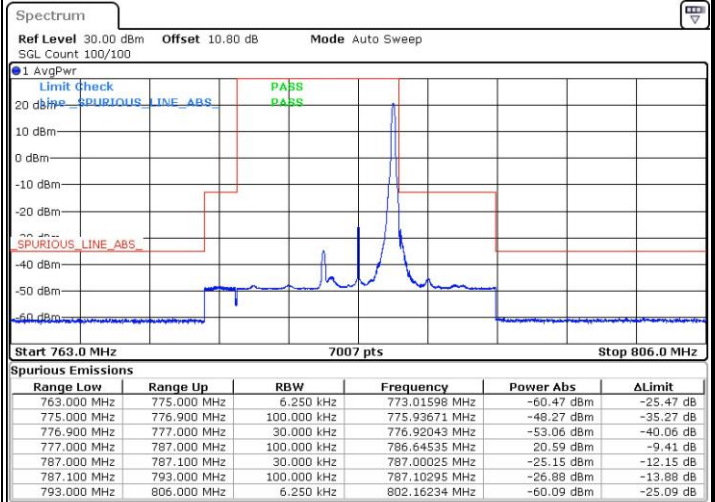
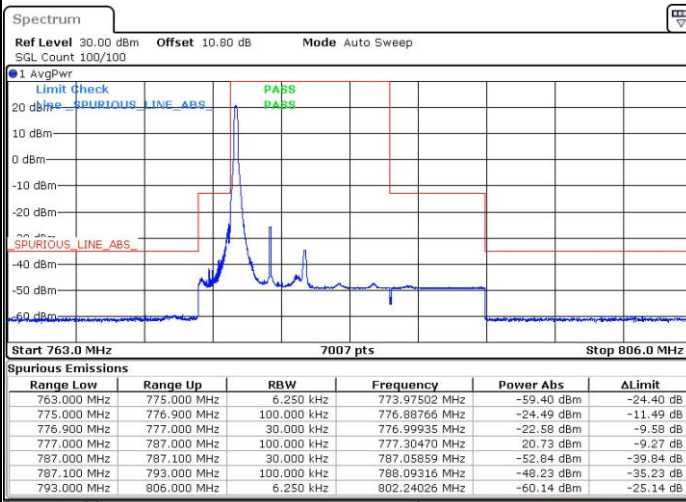
Date: 31.MAR.2018 06:29:34



IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

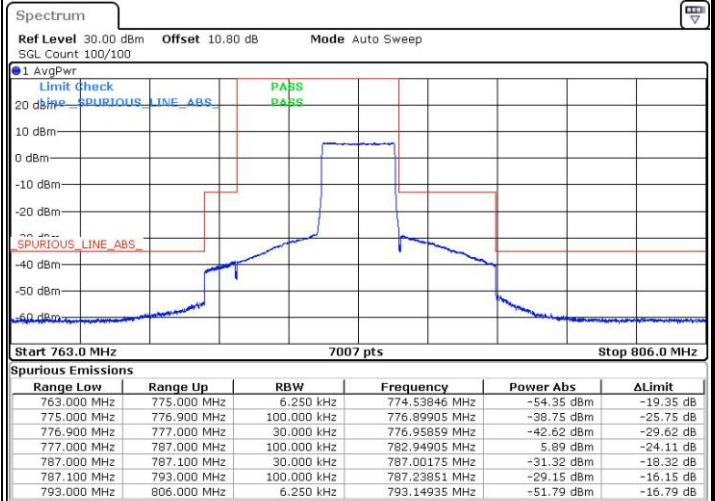
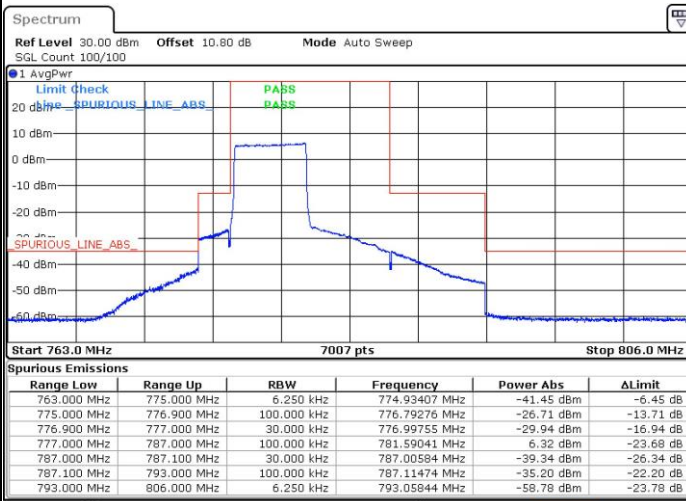


Date: 31.MAR.2018 06:26:18

Date: 31.MAR.2018 06:32:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.MAR.2018 06:24:40

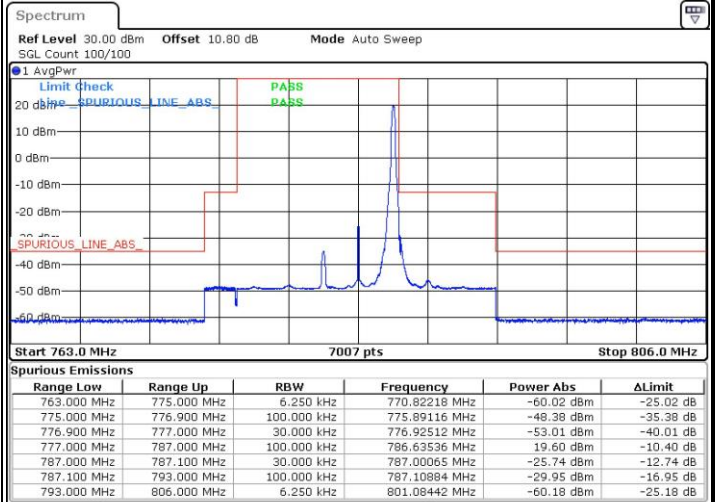
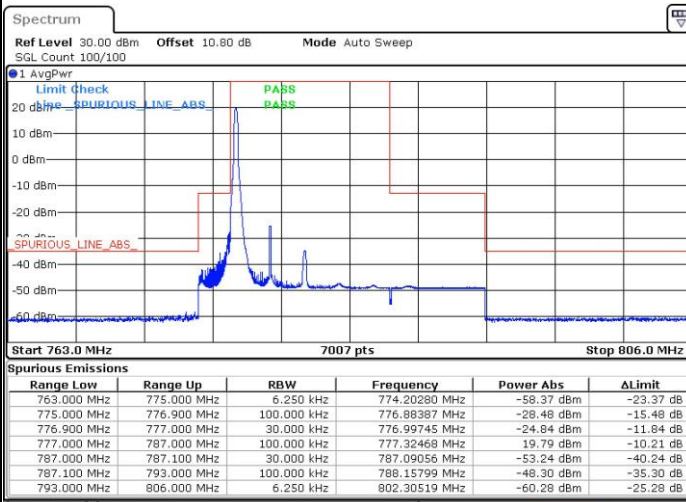
Date: 31.MAR.2018 06:31:12



IC LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

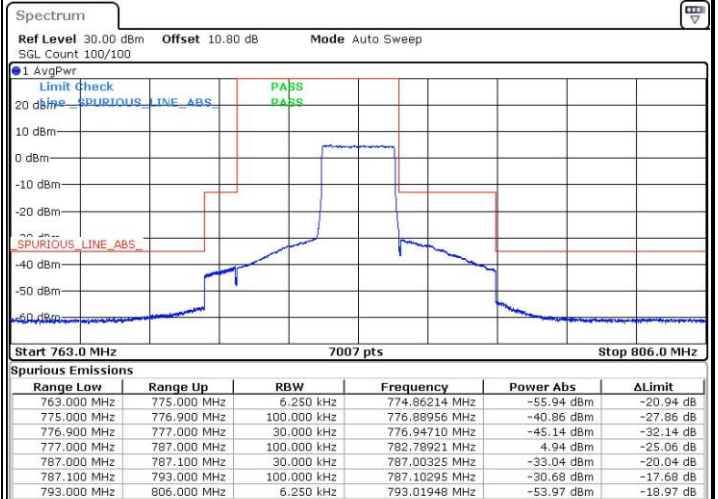
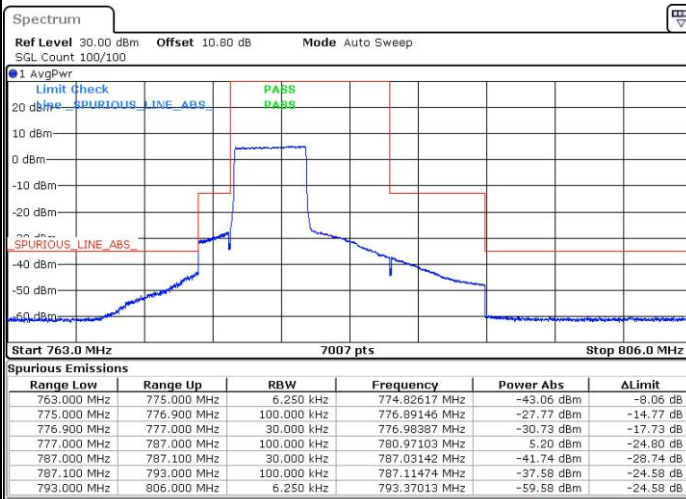


Date: 31.MAR.2018 06:37:45

Date: 31.MAR.2018 06:41:01

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



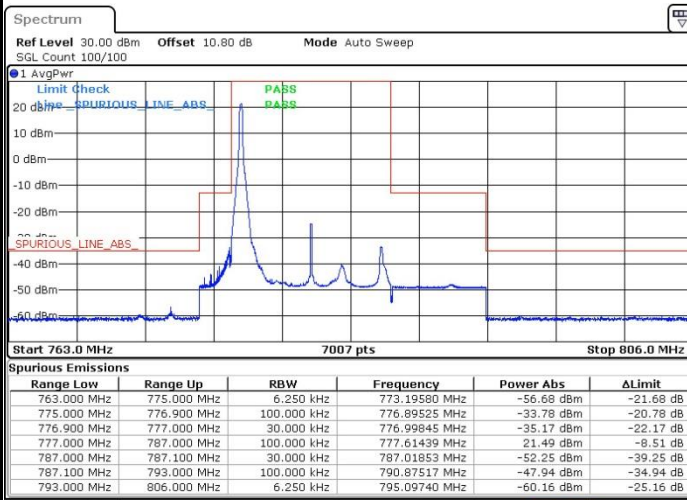
Date: 31.MAR.2018 06:36:07

Date: 31.MAR.2018 06:39:23



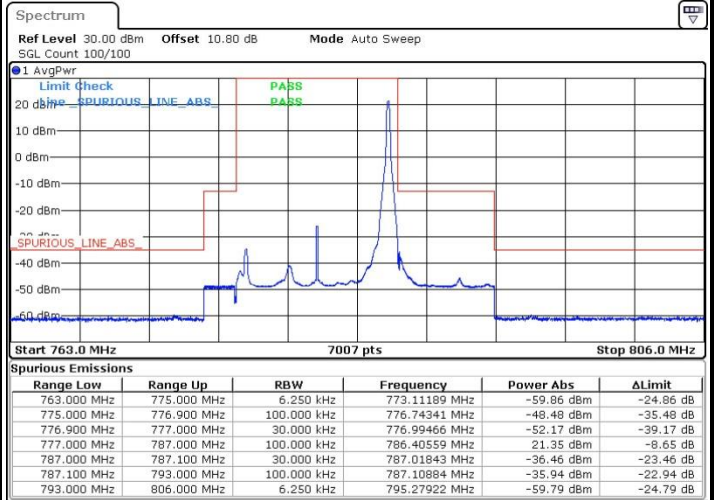
IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



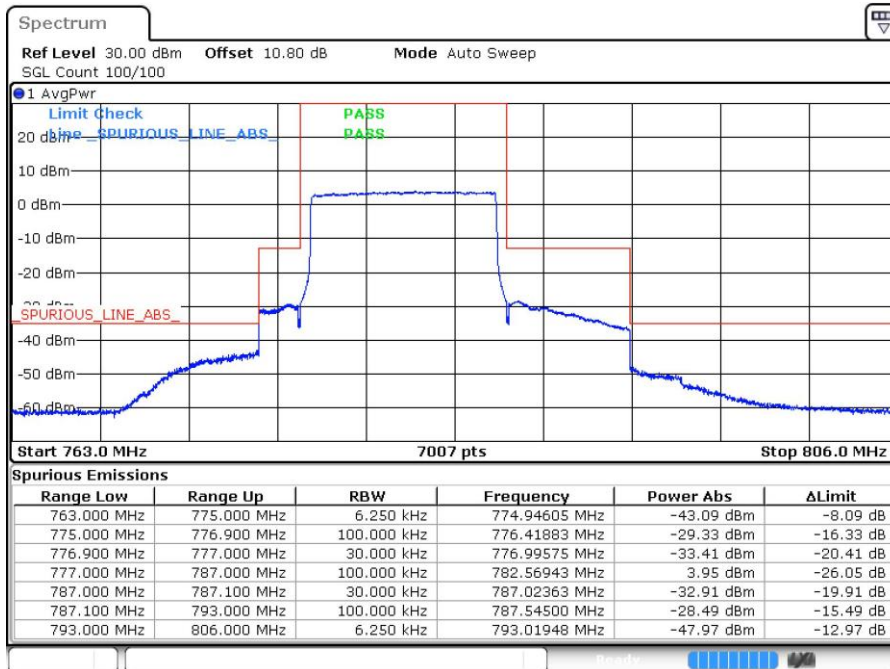
Date: 31.MAR.2018 06:52:28

Highest Band Edge / 1 RB



Date: 31.MAR.2018 06:54:06

Band Edge / Full RB



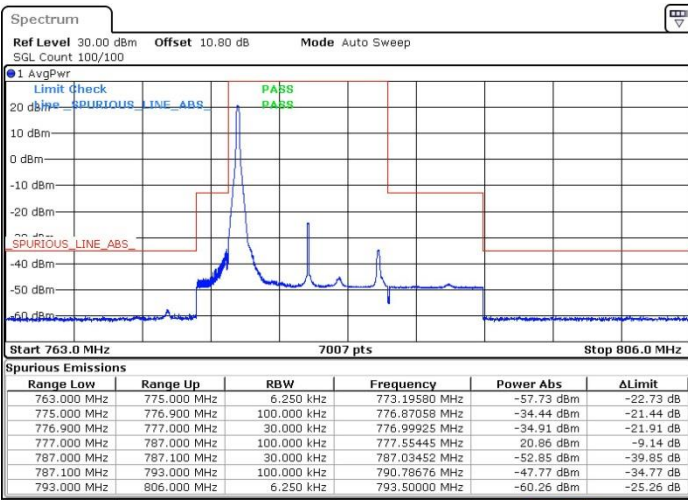
Date: 31.MAR.2018 06:47:33



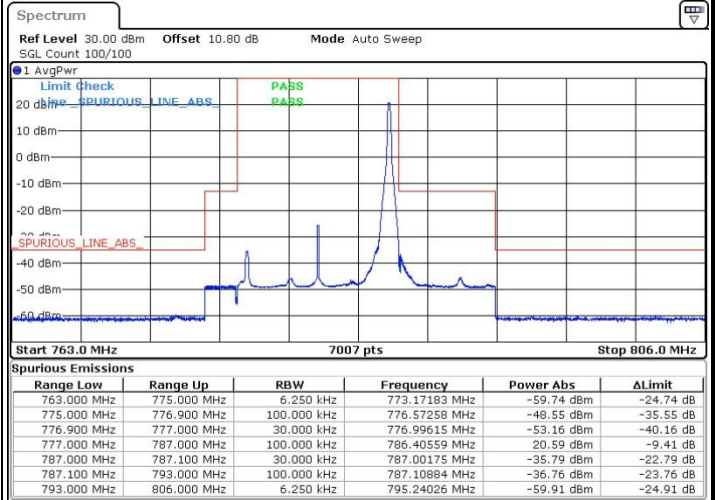
IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

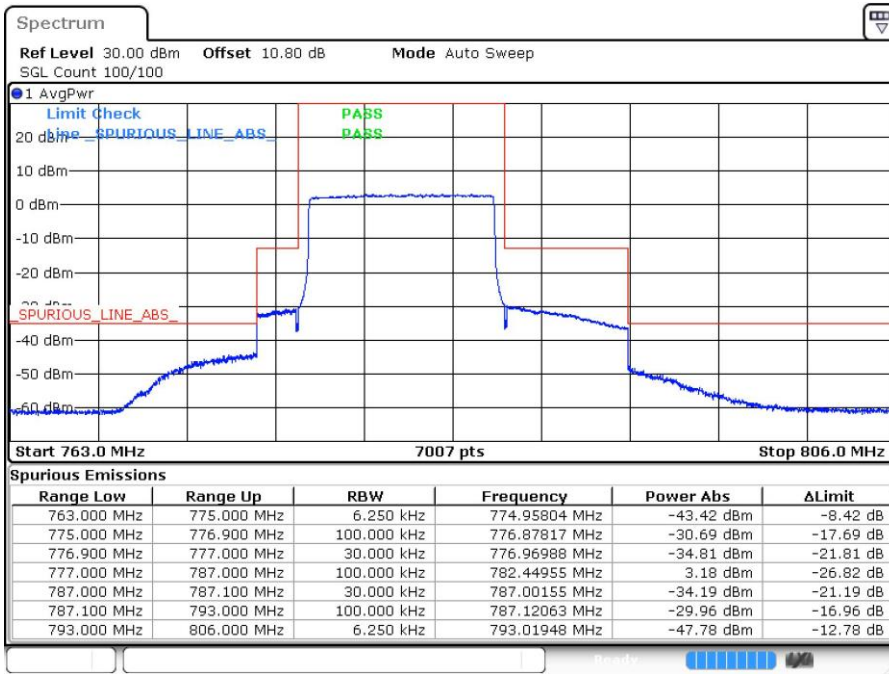


Date: 31.MAR.2018 06:50:50



Date: 31.MAR.2018 06:55:44

Band Edge / Full RB



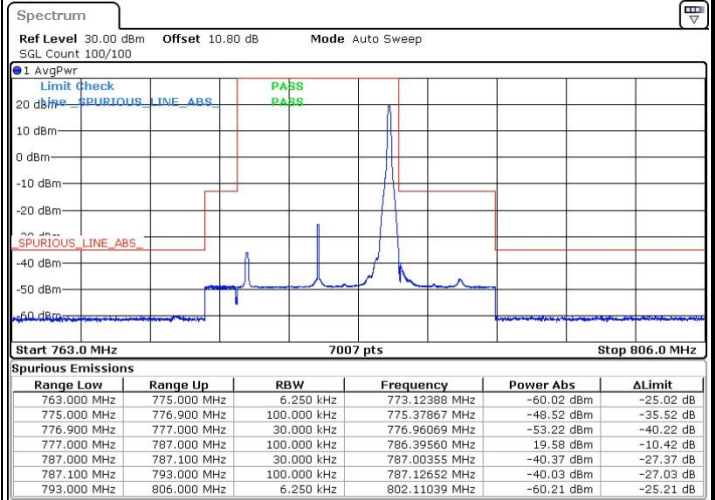
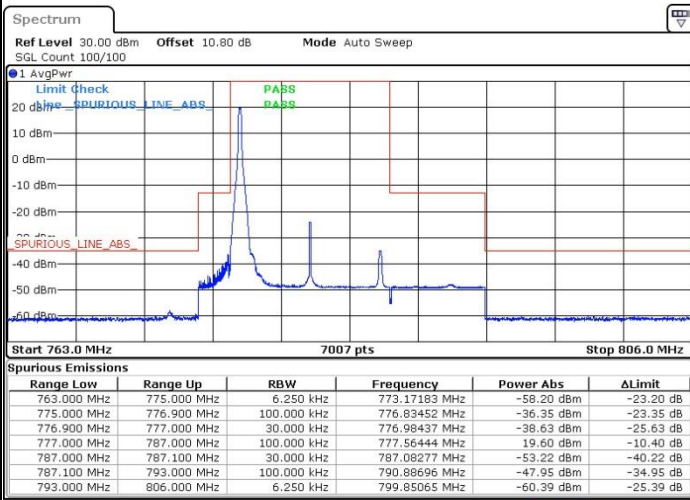
Date: 31.MAR.2018 06:49:12



IC LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

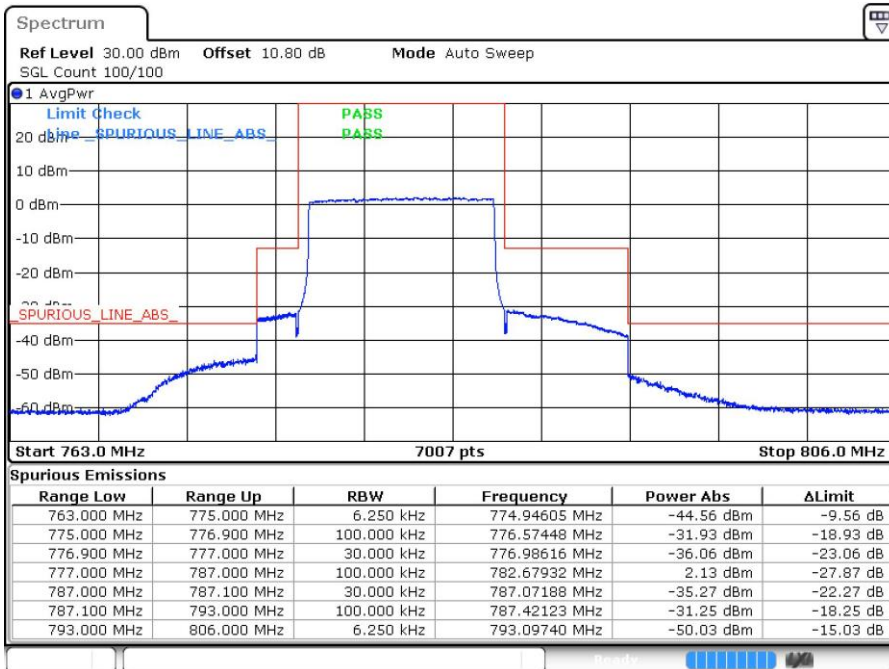
Highest Band Edge / 1 RB



Date: 31.MAR.2018 06:44:17

Date: 31.MAR.2018 06:45:55

Band Edge / Full RB



Date: 31.MAR.2018 06:42:39





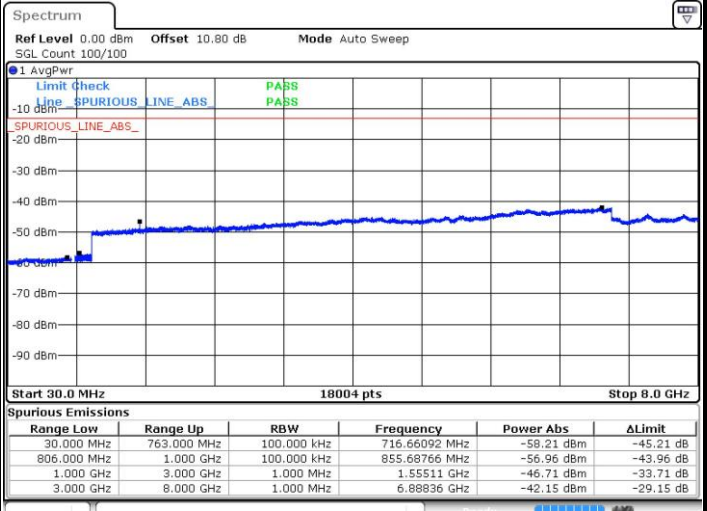
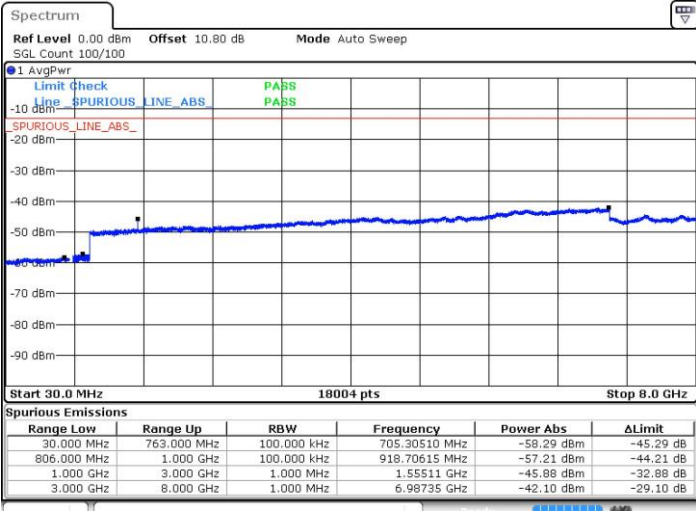
**Conducted Spurious Emission**



LTE Band 13 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

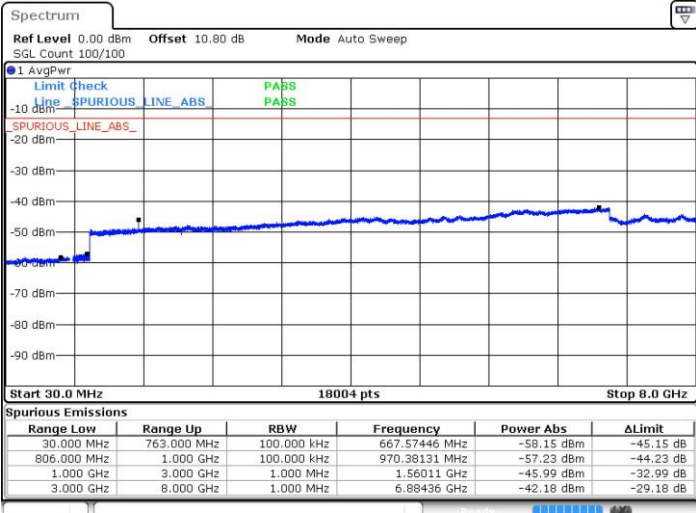


Date: 31.MAR.2018 05:18:51

Date: 31.MAR.2018 05:19:45

Middle Channel / QPSK

Middle Channel / 16QAM



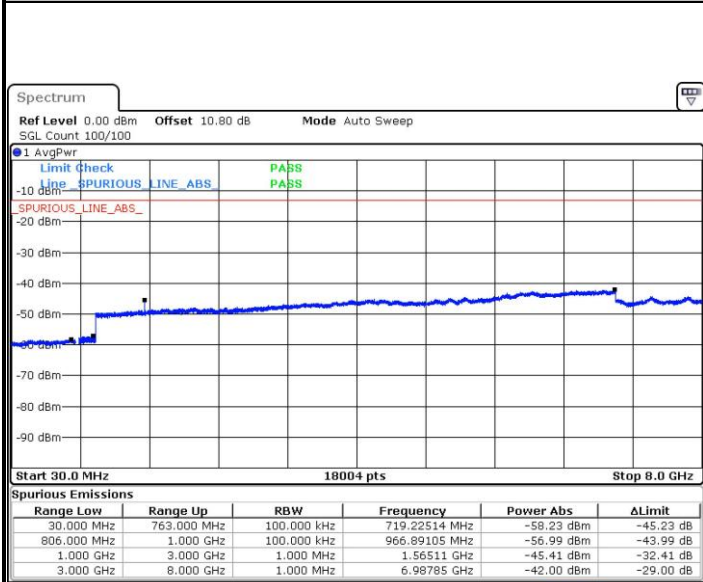
Date: 31.MAR.2018 05:21:33

Date: 31.MAR.2018 05:20:39



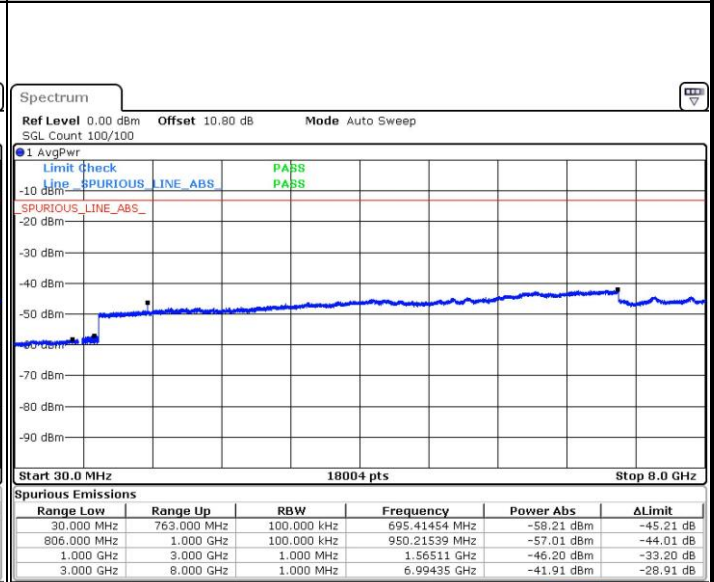
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 31.MAR.2018 05:23:51

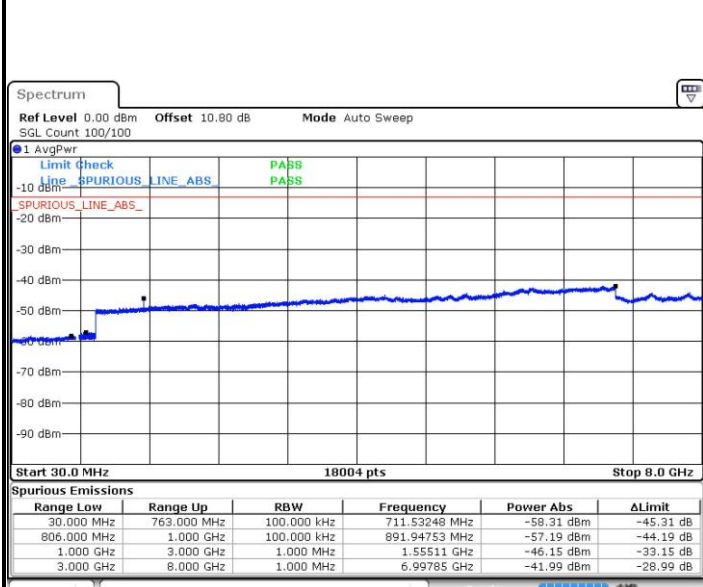
Highest Channel / 16QAM



Date: 31.MAR.2018 05:24:45

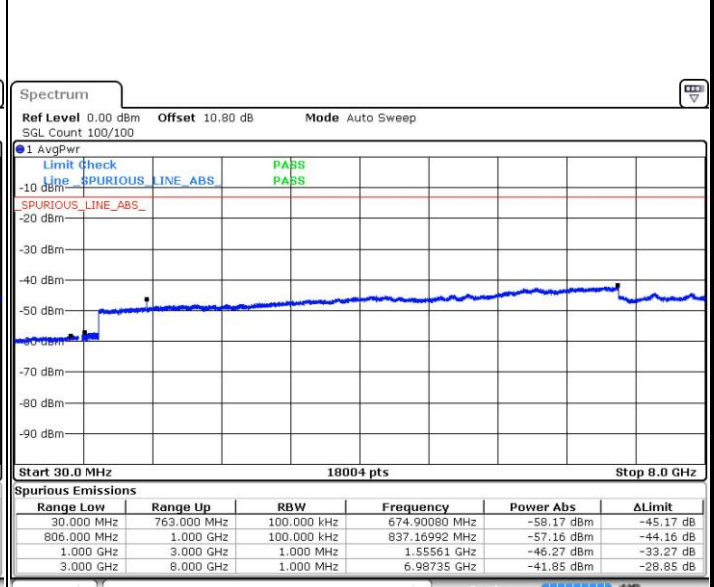
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 31.MAR.2018 05:27:16

Middle Channel / 16QAM



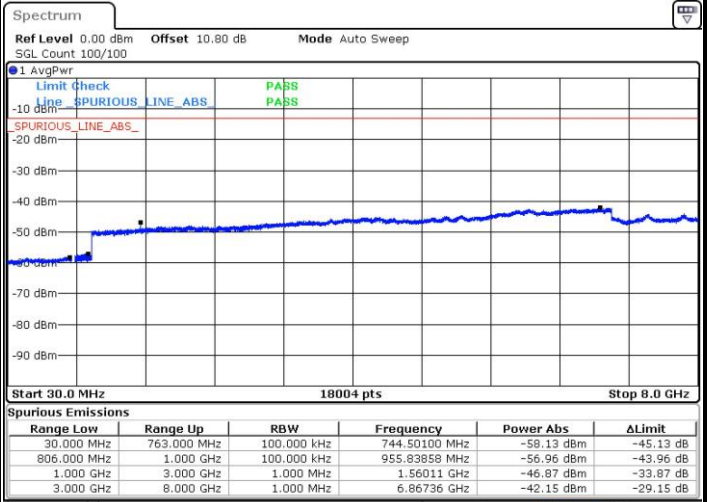
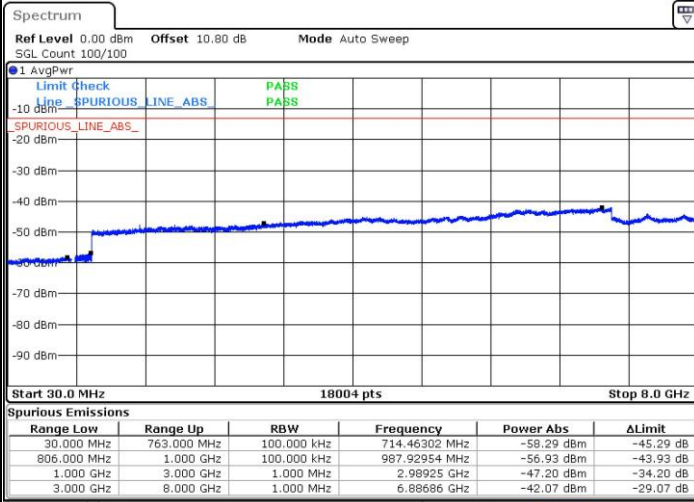
Date: 31.MAR.2018 05:26:21



LTE Band 13 / 5MHz

Lowest Channel / 64QAM

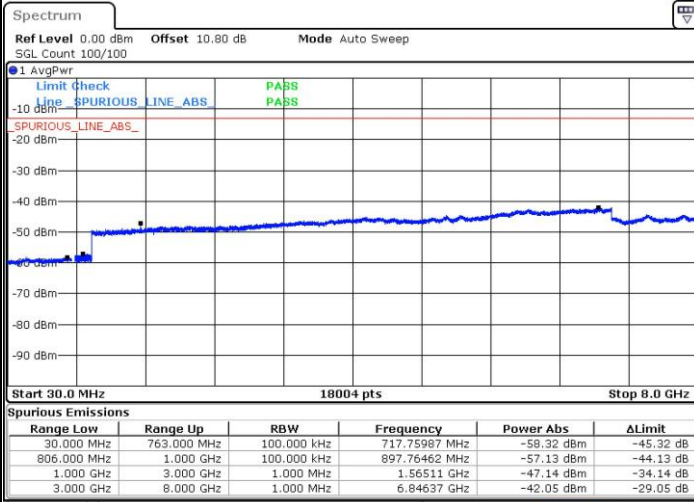
Middle Channel / 64QAM



Date: 31.MAR.2018 05:31:30

Date: 31.MAR.2018 05:32:24

Highest Channel / 64QAM

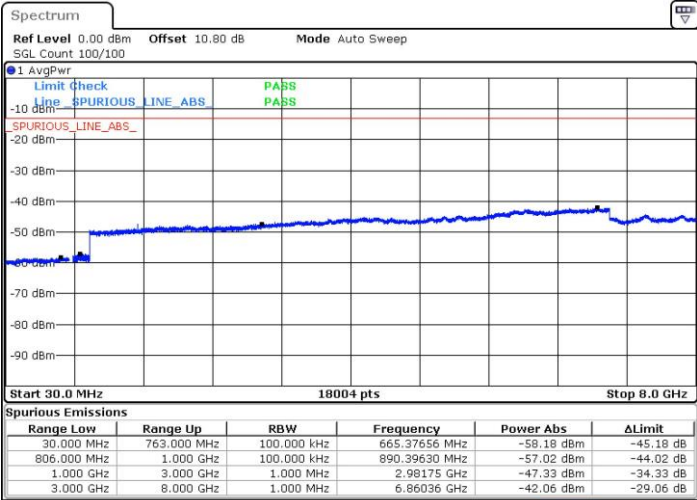


Date: 31.MAR.2018 05:33:59



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Date: 31.MAR.2018 05:35:14



**Frequency Stability**

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0120	PASS
40	Normal Voltage	0.0143	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0104	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0229	
20	Battery End Point	0.0033	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Within Band
		Frequency Offset ( $\Delta f$ ) (Hz)	Result
50	Normal Voltage	9.4	PASS
40	Normal Voltage	11.2	
30	Normal Voltage	0.4	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	-0.9	
0	Normal Voltage	0	
-10	Normal Voltage	3.4	
-20	Normal Voltage	-1.4	
-30	Normal Voltage	8.1	
20	Maximum Voltage	-2	
20	Normal Voltage	17.9	
20	Battery End Point	-2.6	

$|\text{MAX}(\Delta f)| = 17.9\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L -  \text{MAX}(\Delta f) $	777.129982	$\geq 777 \text{ MHz}$	PASS
$f_H +  \text{MAX}(\Delta f) $	786.873018	$\leq 787 \text{ MHz}$	



# LTE Band 25

## Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.75	4.78	6.03	<b>PASS</b>
Middle CH	3.86	4.64	5.54	5.97	
Highest CH	3.68	4.75	5.25	6.20	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.83	6.75			<b>PASS</b>
Middle CH	6.87	6.64			
Highest CH	6.38	6.81			