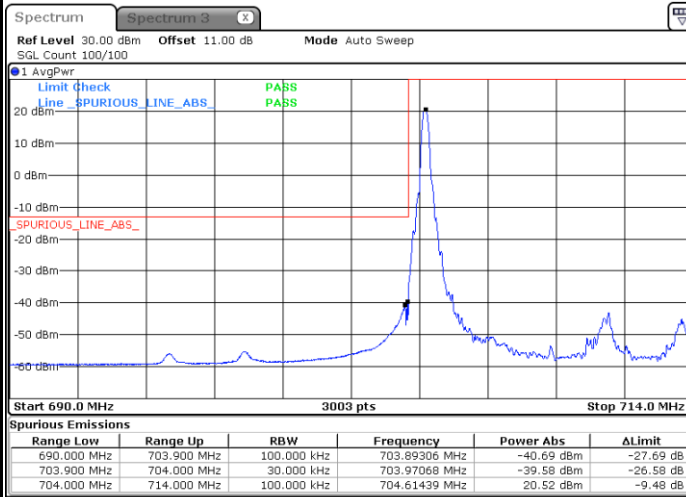


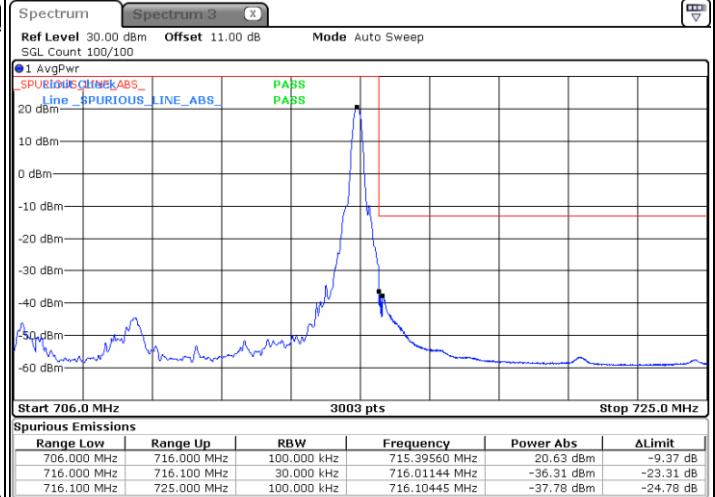


LTE Band 17 / 10MHz / QPSK

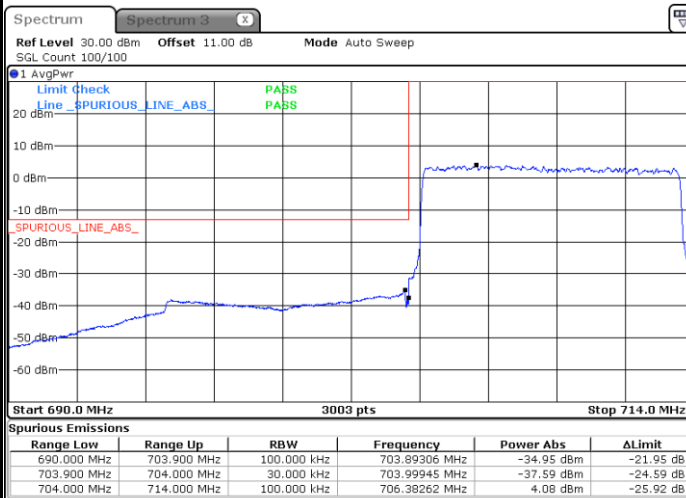
Lowest Band Edge / 1 RB



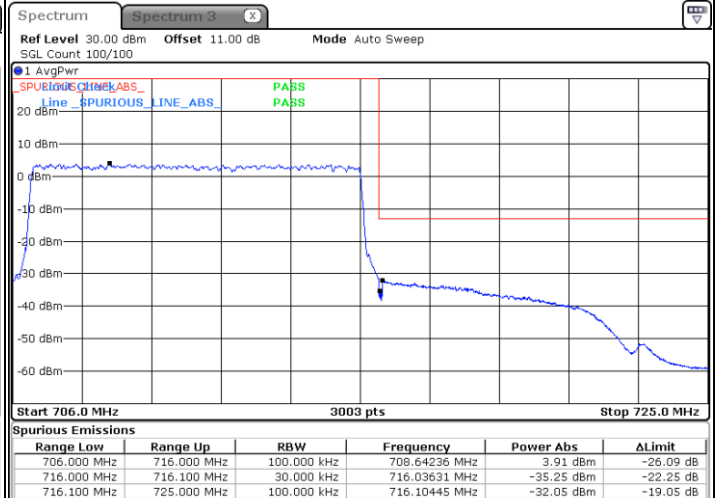
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



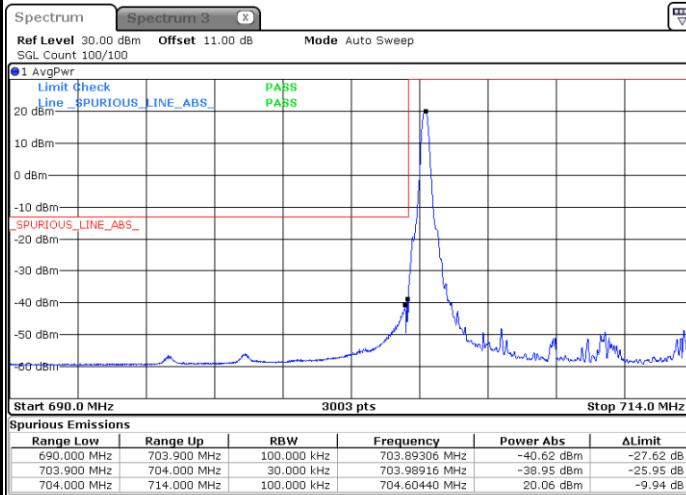
Highest Band Edge / Full RB



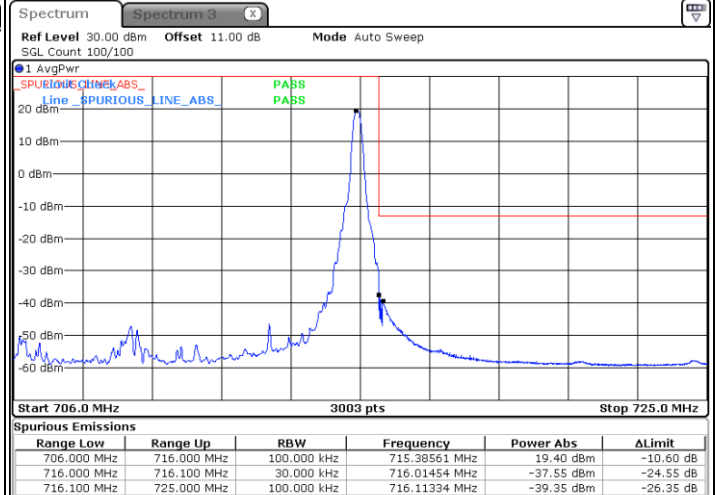


LTE Band 17 / 10MHz / 16QAM

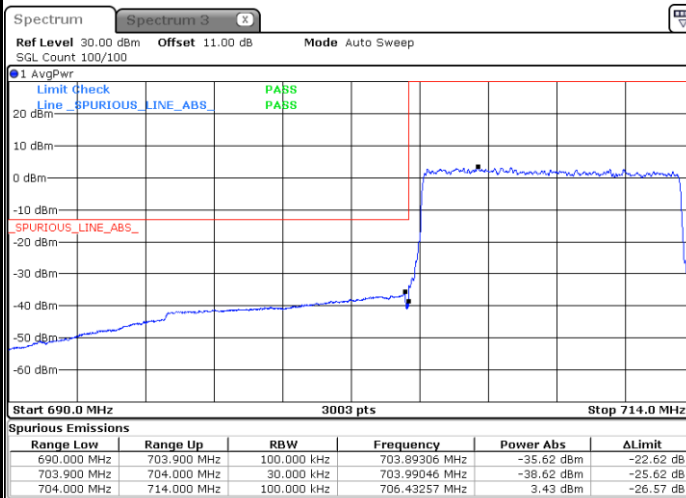
Lowest Band Edge / 1 RB



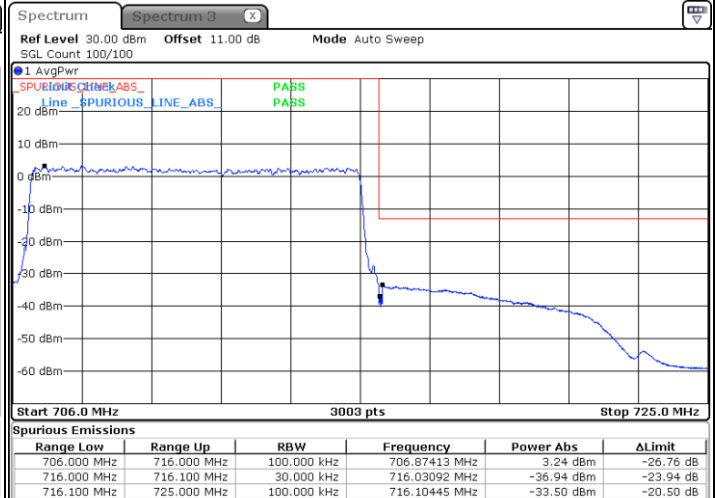
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



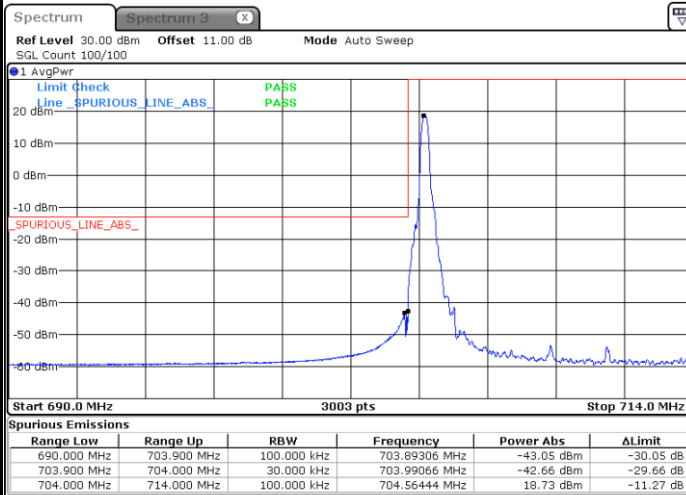
Highest Band Edge / Full RB



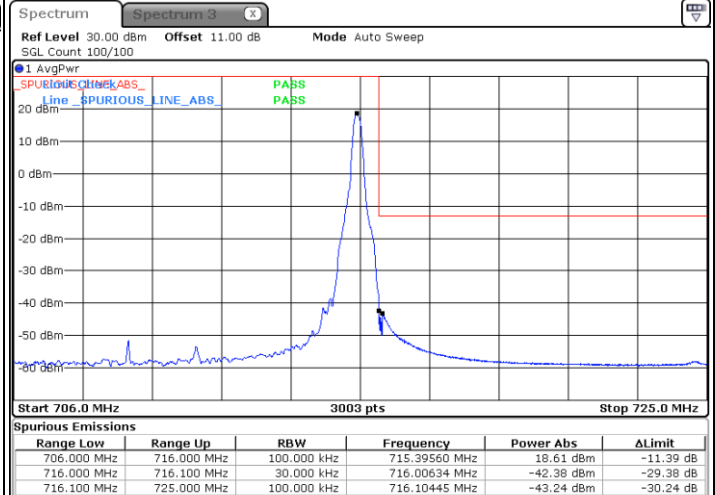


LTE Band 17 / 10MHz / 64QAM

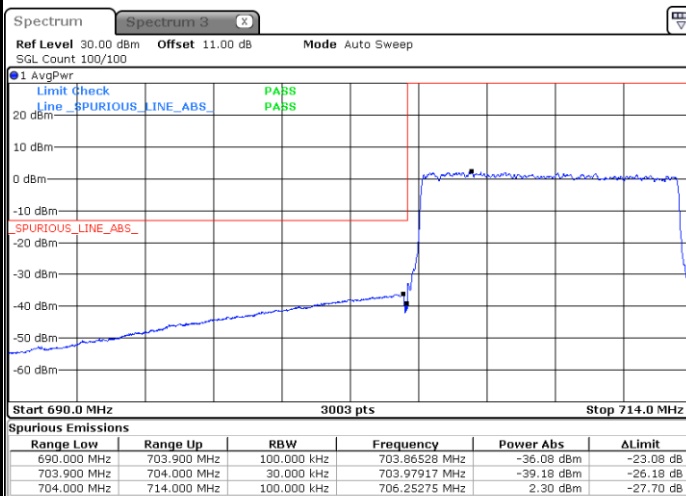
Lowest Band Edge / 1 RB



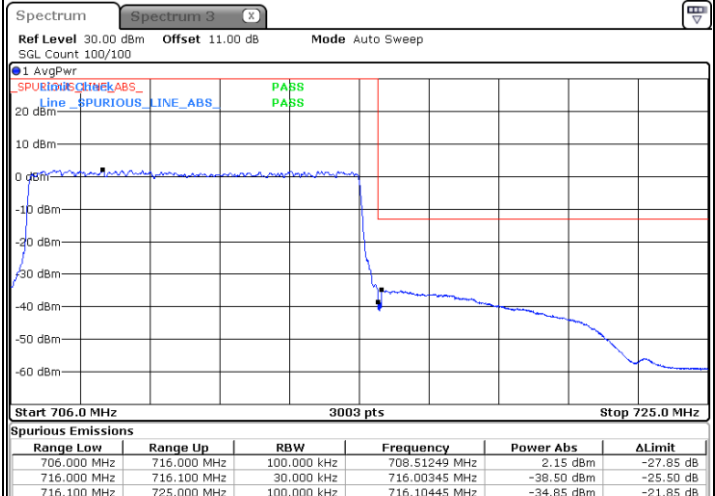
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

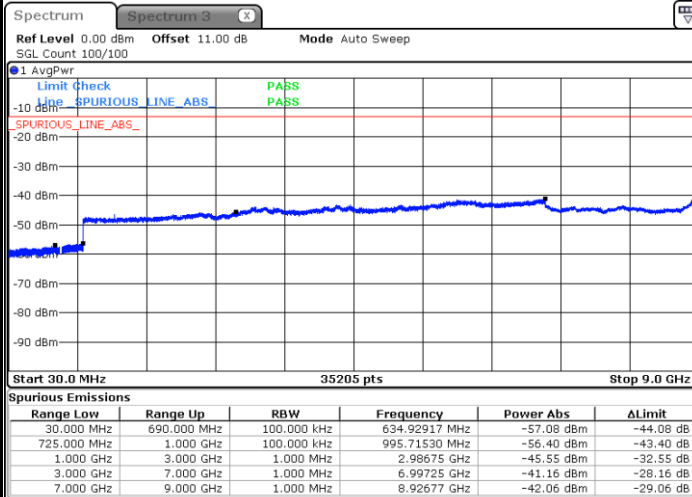




Conducted Spurious Emission

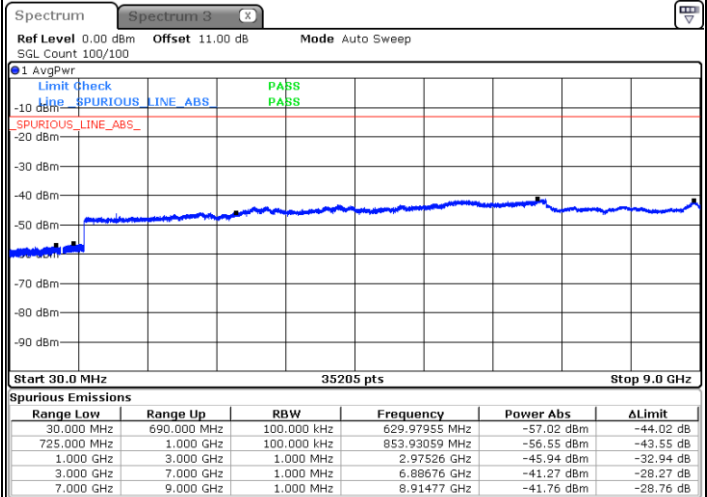
LTE Band 17 / 5MHz

Lowest Channel / QPSK



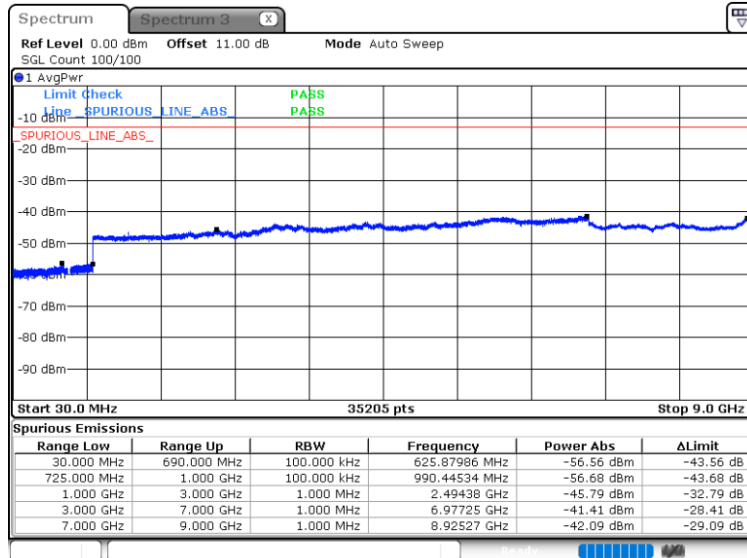
Date: 23.SEP.2021 13:54:19

Middle Channel / QPSK



Date: 23.SEP.2021 13:56:22

Highest Channel / QPSK

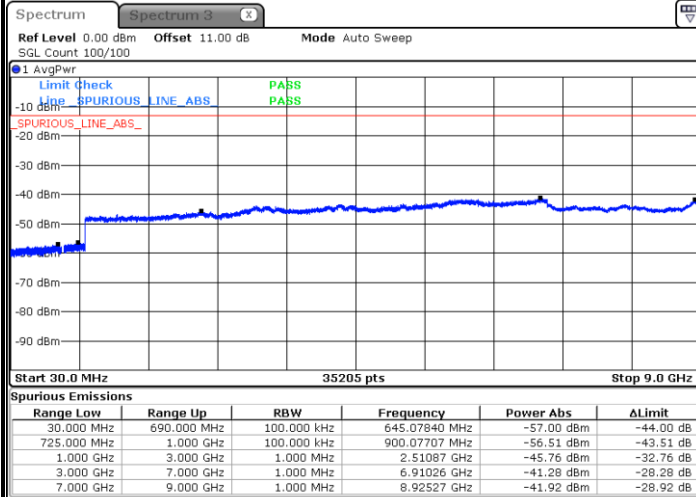


Date: 23.SEP.2021 14:00:24



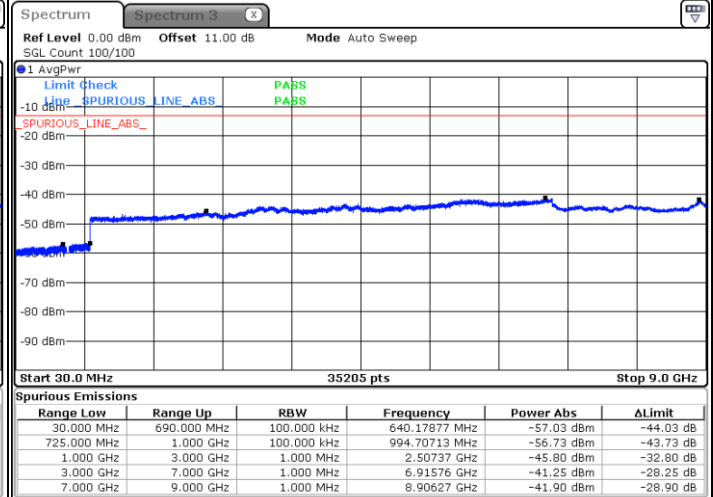
LTE Band 17 / 10MHz

Lowest Channel / QPSK



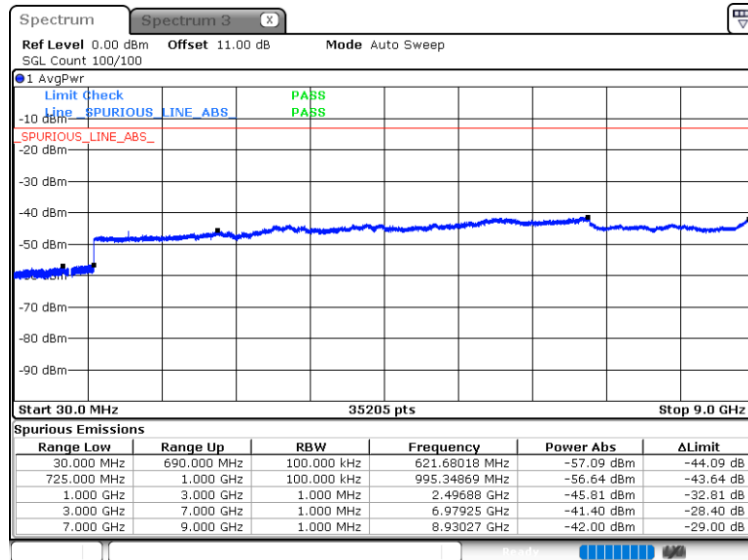
Date: 23.SEP.2021 14:04:33

Middle Channel / QPSK



Date: 23.SEP.2021 14:06:35

Highest Channel / QPSK



Date: 23.SEP.2021 14:10:37

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0231	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0123	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0154	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0220	
-20	Normal Voltage	0.0103	
-30	Normal Voltage	0.0139	
20	Maximum Voltage	0.0234	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0151	

Note:

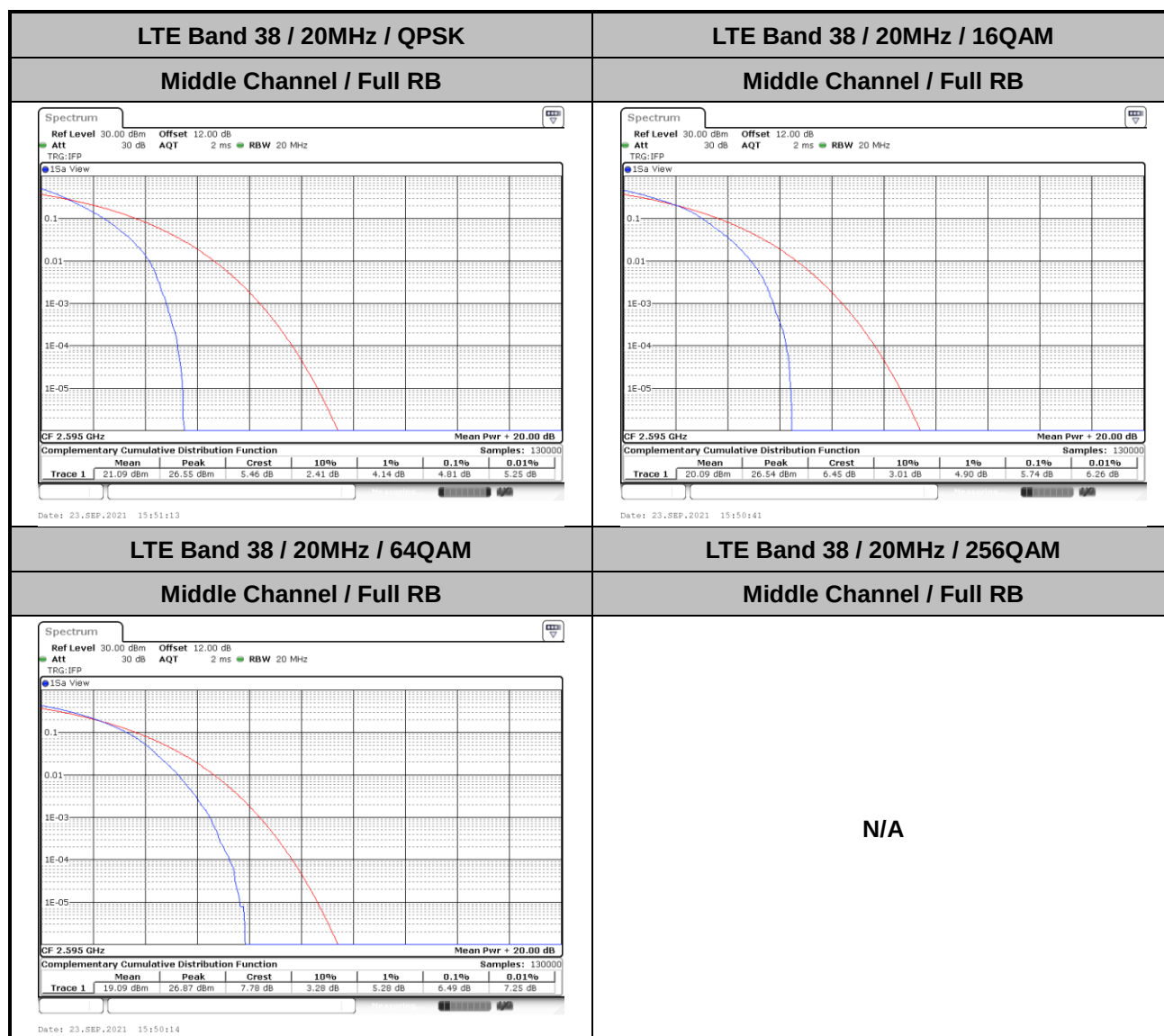
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38

Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.81	5.74	6.49	-	PASS



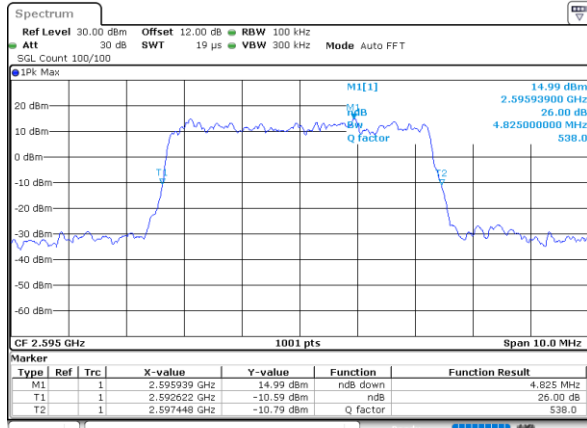
**26dB Bandwidth**

Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.83	4.96	9.73	9.69	14.27	14.30	18.82	19.02
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.93	-	9.83	-	14.18	-	18.66	-



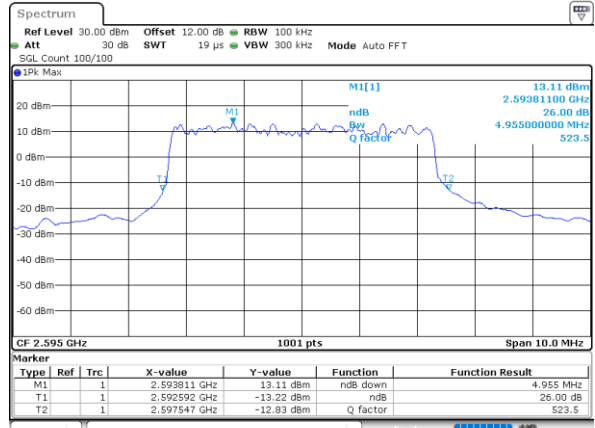
LTE Band 38

Middle Channel / 5MHz / QPSK



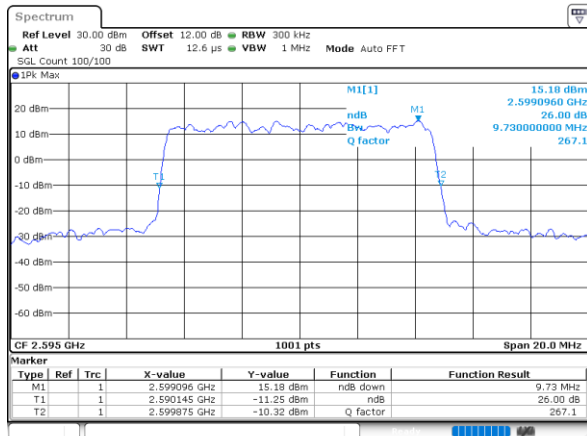
Date: 23.SEP.2021 15:41:01

Middle Channel / 5MHz / 16QAM



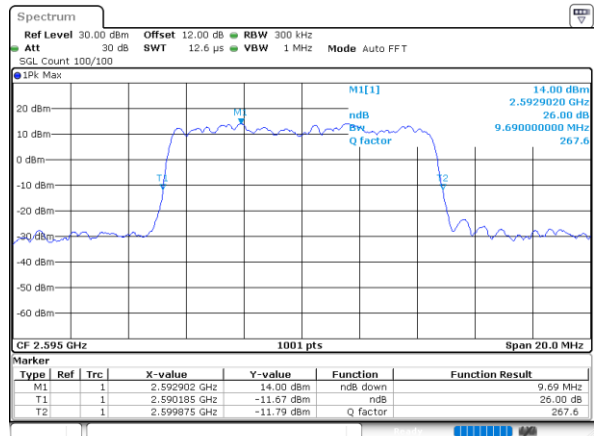
Date: 23.SEP.2021 15:41:21

Middle Channel / 10MHz / QPSK



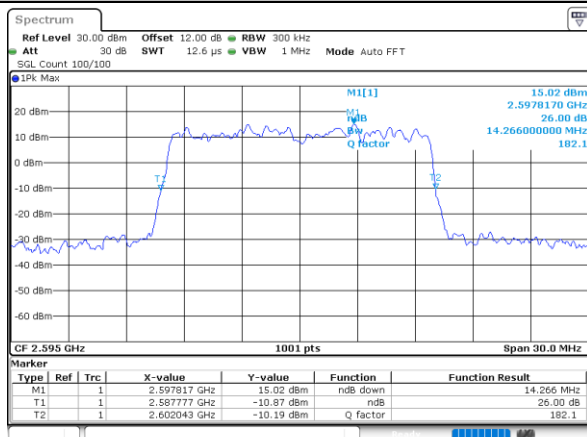
Date: 23.SEP.2021 15:42:28

Middle Channel / 10MHz / 16QAM



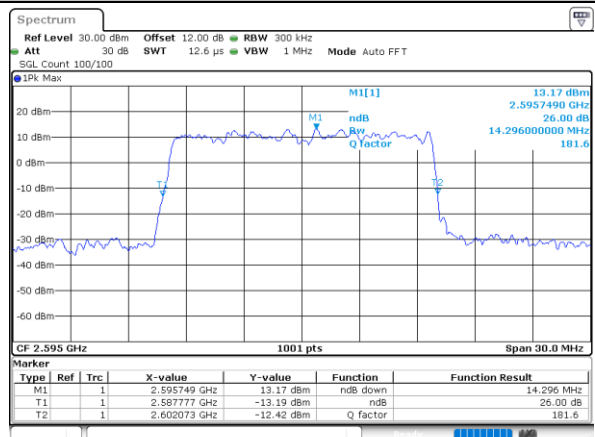
Date: 23.SEP.2021 15:42:48

Middle Channel / 15MHz / QPSK



Date: 23.SEP.2021 15:43:55

Middle Channel / 15MHz / 16QAM

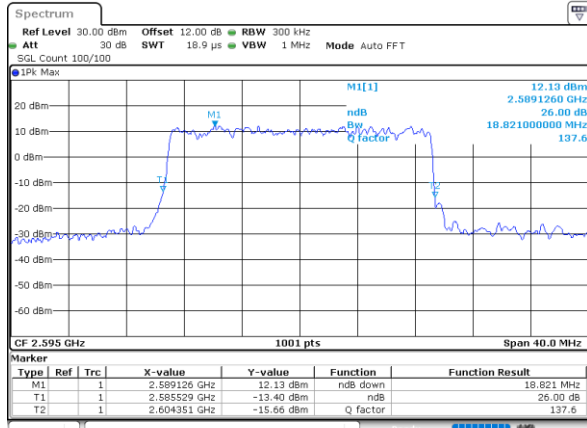


Date: 23.SEP.2021 15:44:16



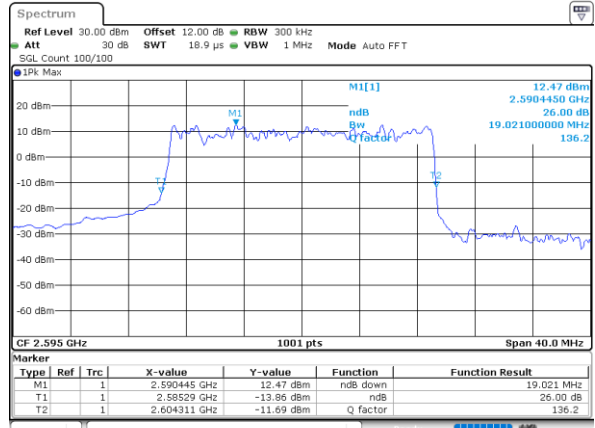
LTE Band 38

Middle Channel / 20MHz / QPSK



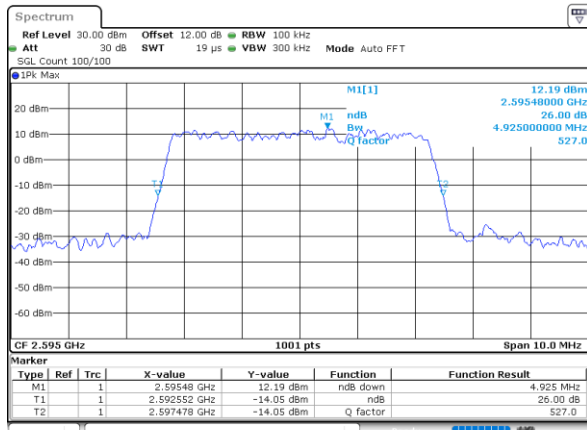
Date: 23.SEP.2021 15:45:23

Middle Channel / 20MHz / 16QAM



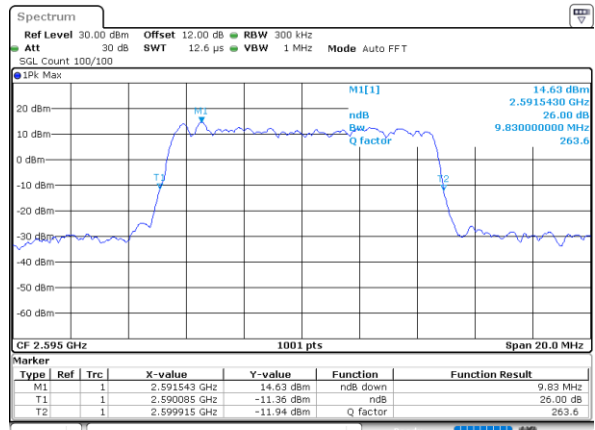
Date: 23.SEP.2021 15:45:44

Middle Channel / 5MHz / 64QAM



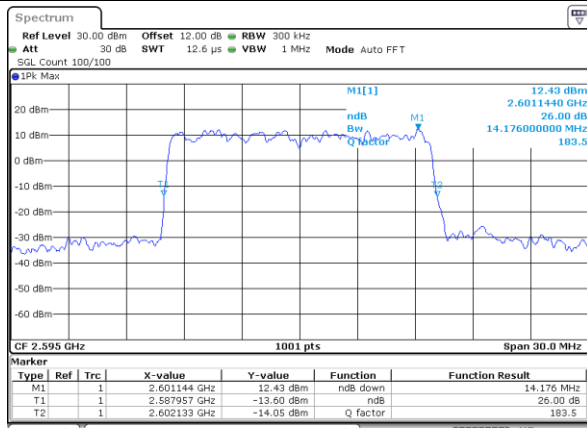
Date: 23.SEP.2021 15:46:28

Middle Channel / 10MHz / 64QAM



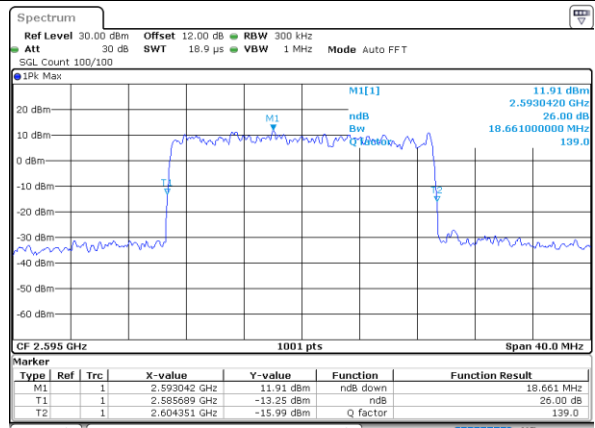
Date: 23.SEP.2021 15:47:11

Middle Channel / 15MHz / 64QAM



Date: 23.SEP.2021 15:47:56

Middle Channel / 20MHz / 64QAM



Date: 23.SEP.2021 15:48:40

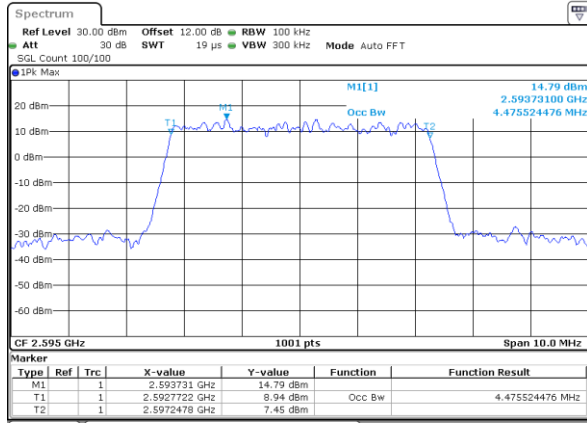
**Occupied Bandwidth**

Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.50	8.95	9.03	13.46	13.40	17.98	17.82
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.48	-	9.03	-	13.49	-	17.82	-



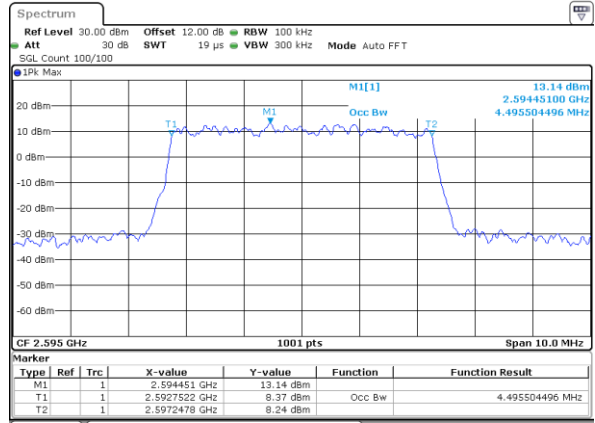
LTE Band 38

Middle Channel / 5MHz / QPSK



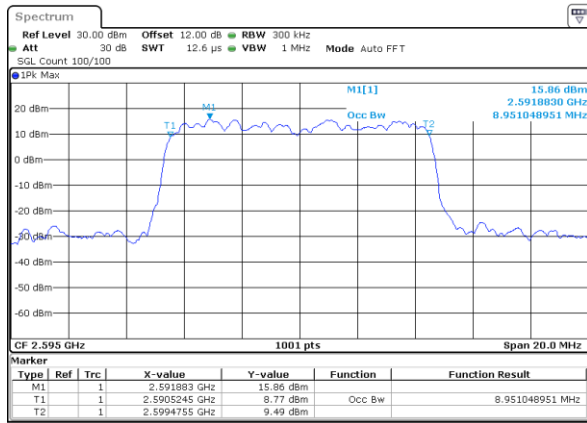
Date: 23.SEP.2021 15:40:16

Middle Channel / 5MHz / 16QAM



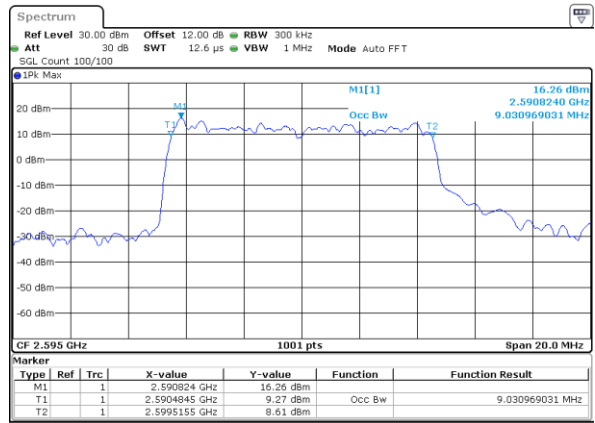
Date: 23.SEP.2021 15:40:18

Middle Channel / 10MHz / QPSK



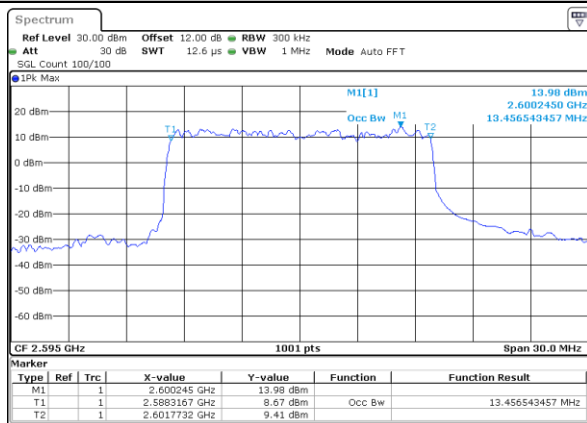
Date: 23.SEP.2021 15:41:43

Middle Channel / 10MHz / 16QAM



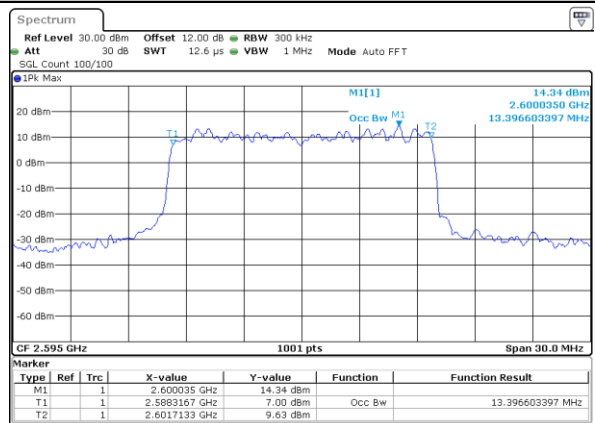
Date: 23.SEP.2021 15:42:05

Middle Channel / 15MHz / QPSK



Date: 23.SEP.2021 15:43:10

Middle Channel / 15MHz / 16QAM

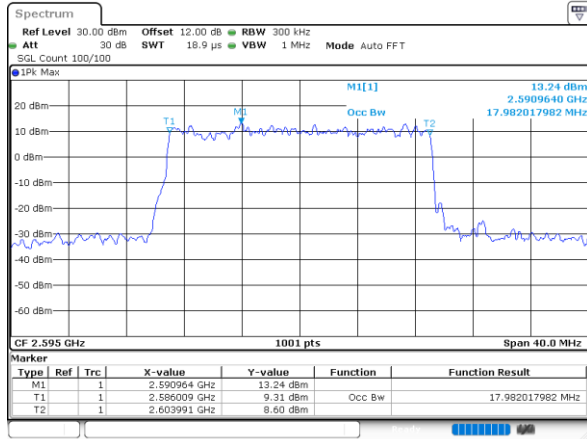


Date: 23.SEP.2021 15:43:32



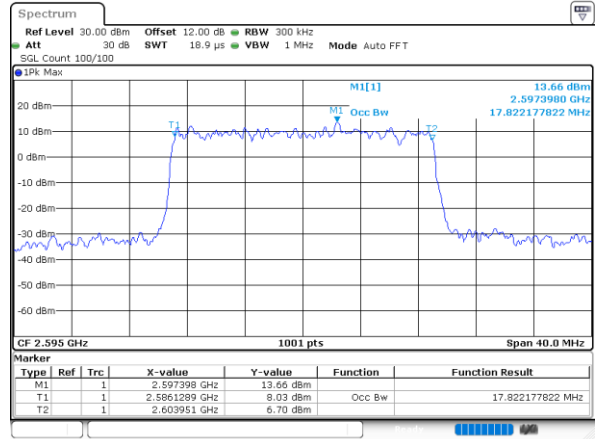
LTE Band 38

Middle Channel / 20MHz / QPSK



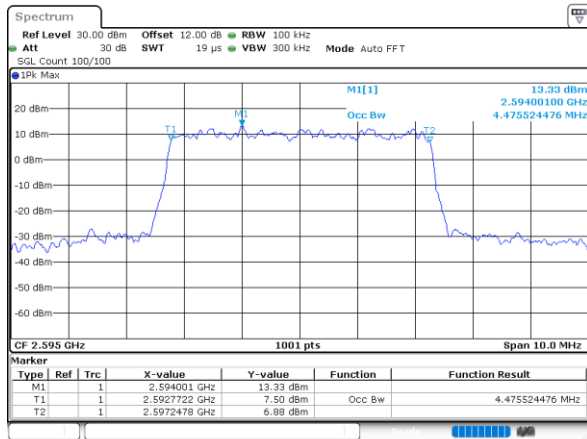
Date: 23.SEP.2021 15:44:38

Middle Channel / 20MHz / 16QAM



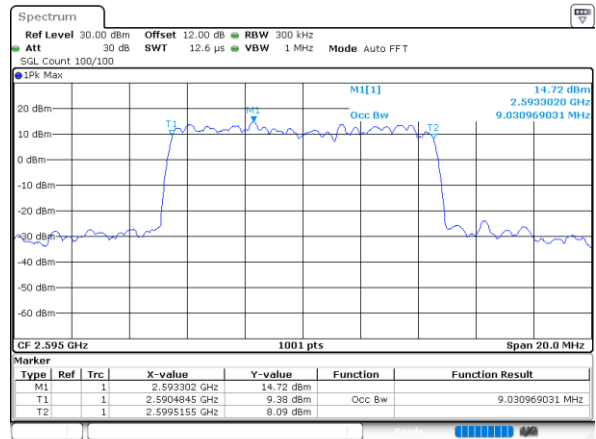
Date: 23.SEP.2021 15:45:00

Middle Channel / 5MHz / 64QAM



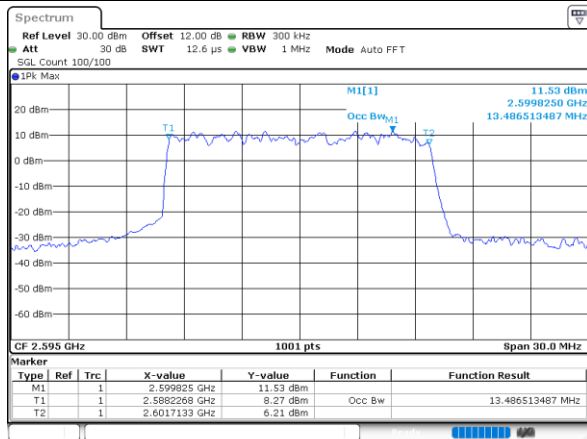
Date: 23.SEP.2021 15:46:05

Middle Channel / 10MHz / 64QAM



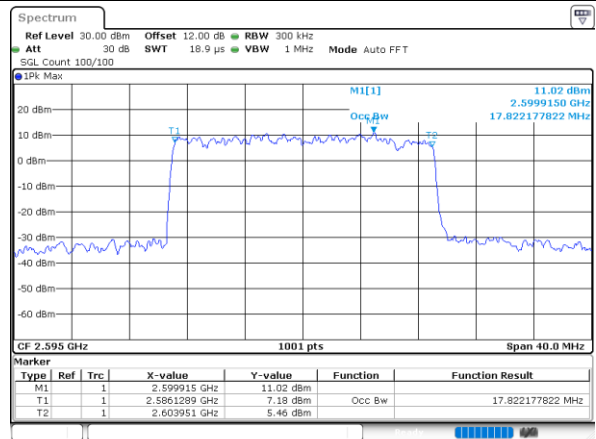
Date: 23.SEP.2021 15:46:49

Middle Channel / 15MHz / 64QAM



Date: 23.SEP.2021 15:47:33

Middle Channel / 20MHz / 64QAM



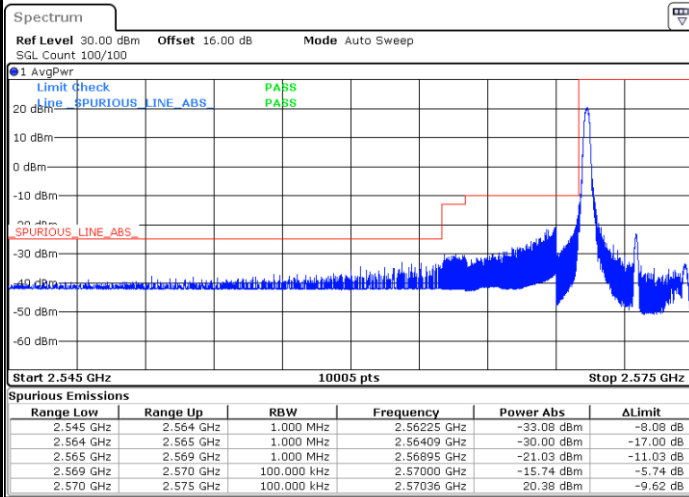
Date: 23.SEP.2021 15:48:17



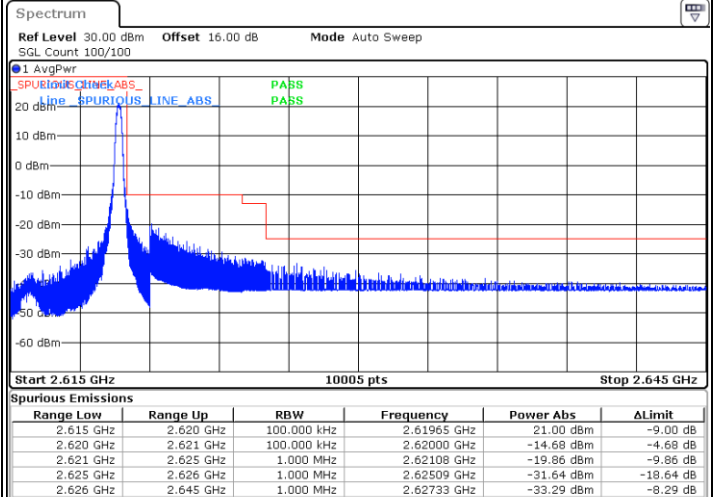
Conducted Band Edge

LTE Band 38 / 5MHz / QPSK

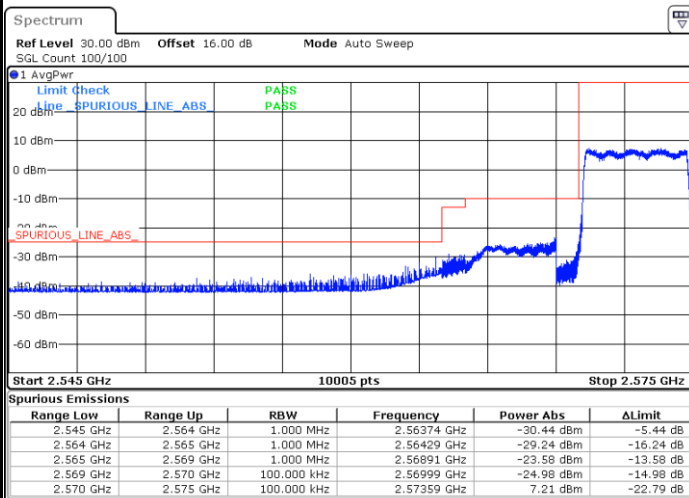
Lowest Band Edge / 1 RB



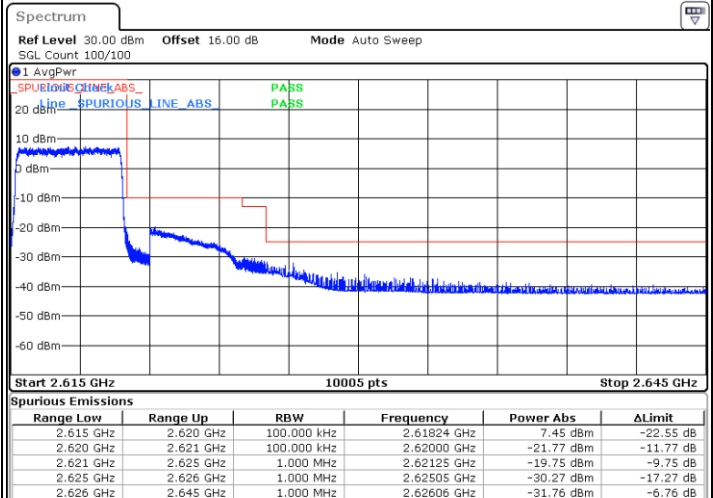
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



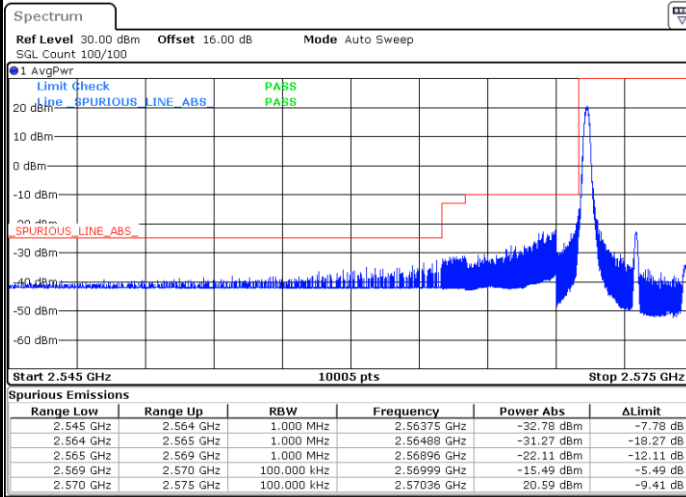
Highest Band Edge / Full RB



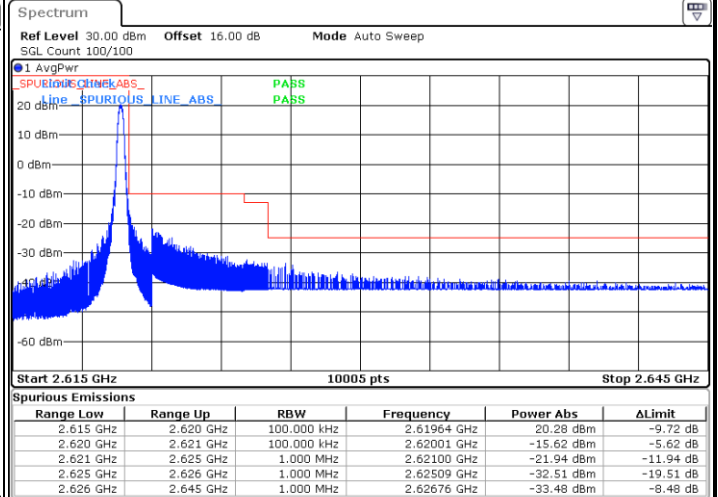


LTE Band 38 / 5MHz / 16QAM

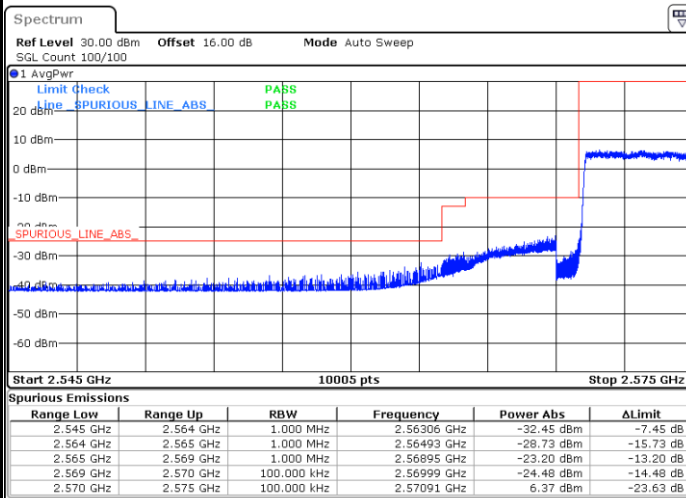
Lowest Band Edge / 1RB



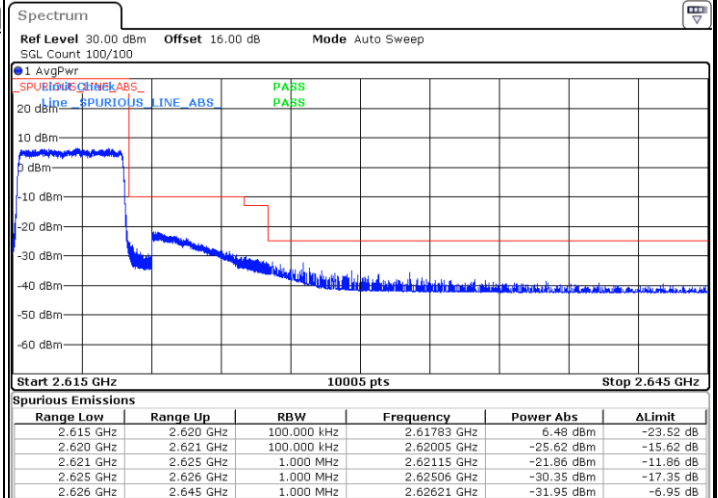
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



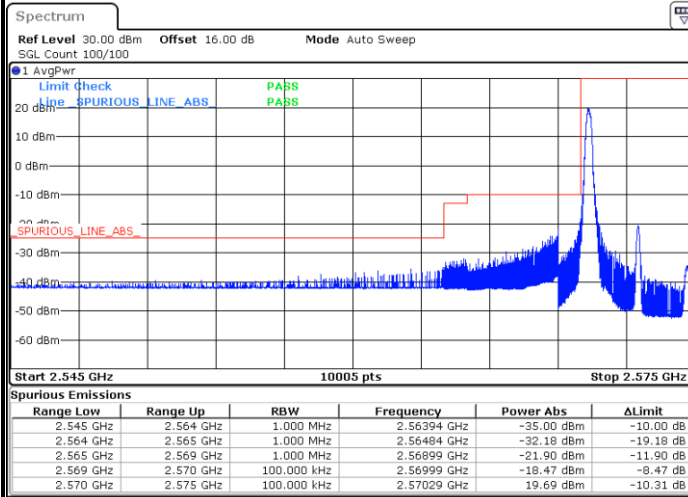
Highest Band Edge / Full RB



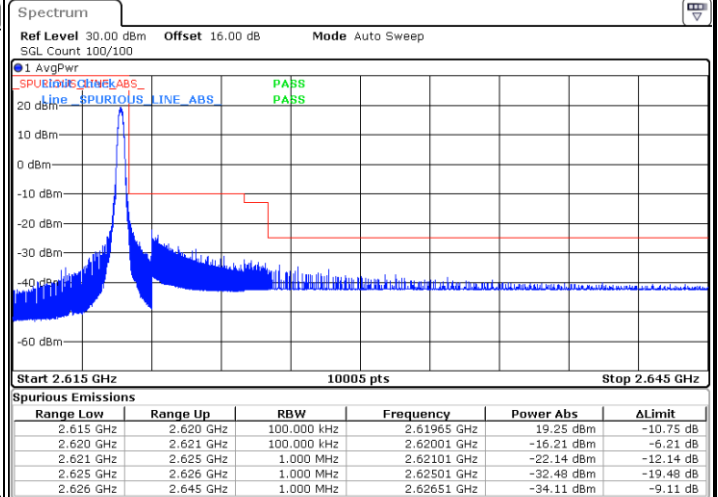


LTE Band 38 / 5MHz / 64QAM

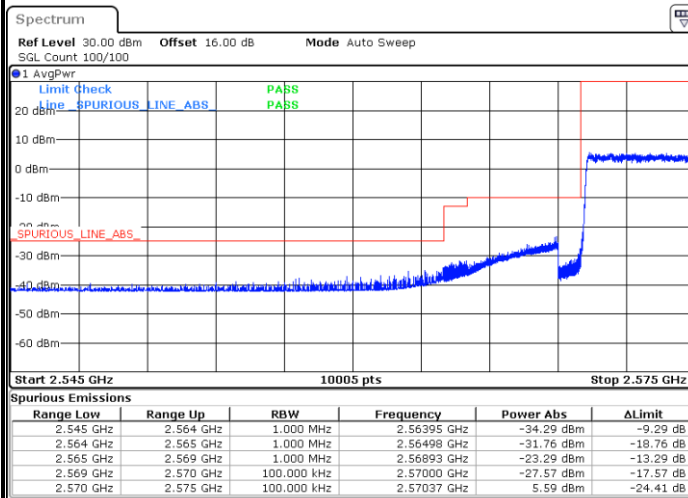
Lowest Band Edge / 1RB



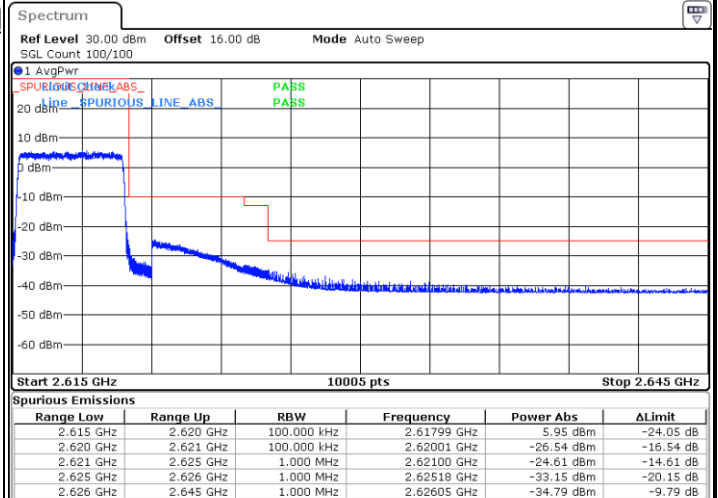
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



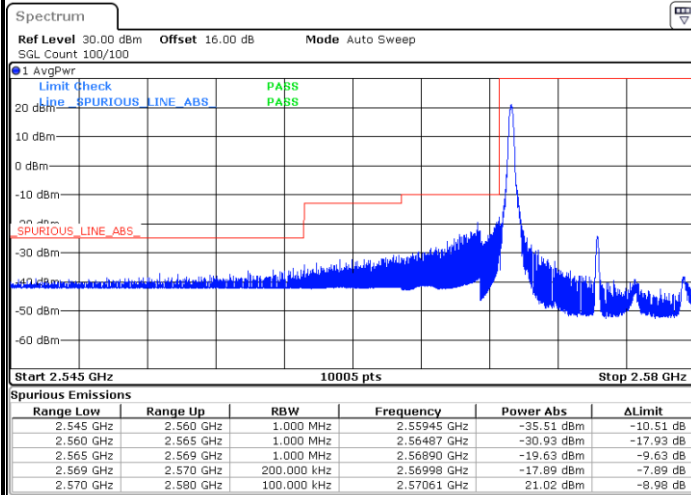
Highest Band Edge / Full RB



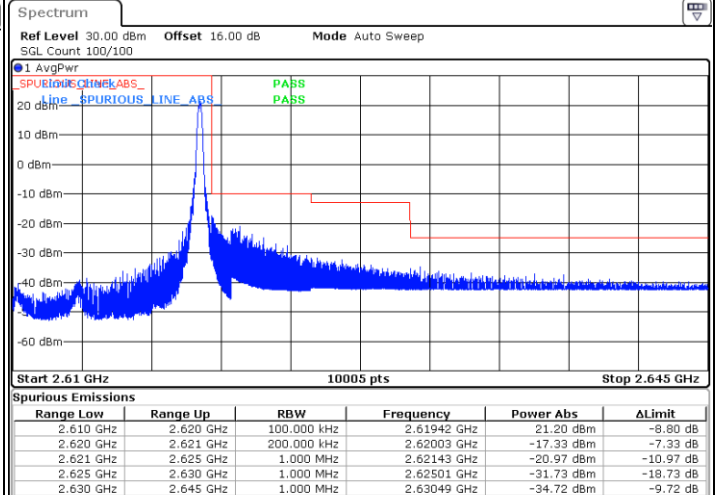


LTE Band 38 / 10MHz / QPSK

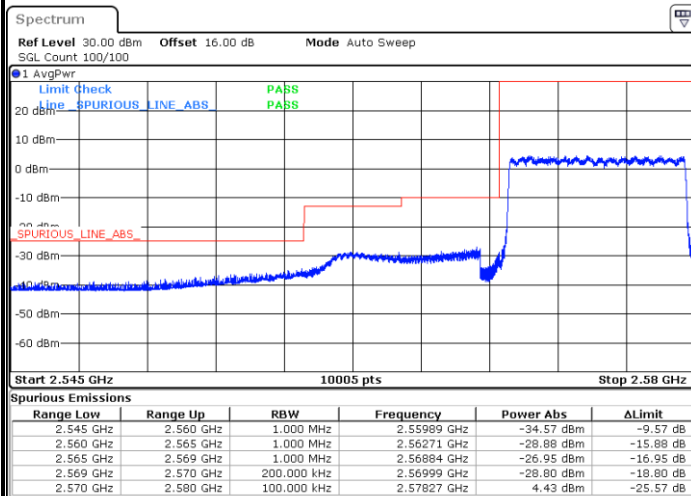
Lowest Band Edge / 1 RB



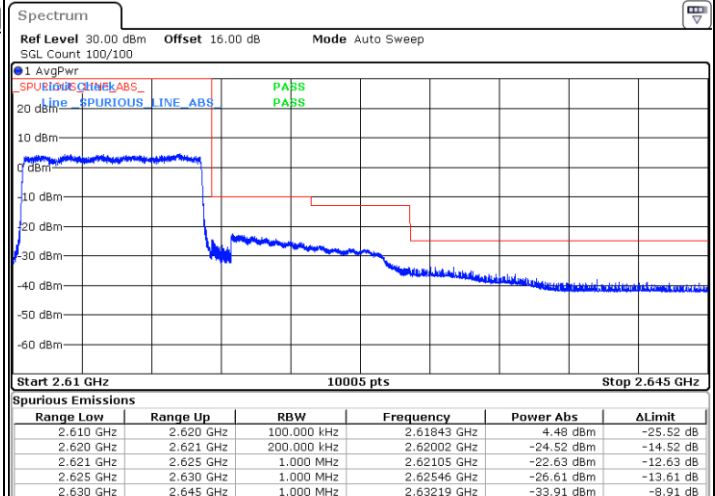
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



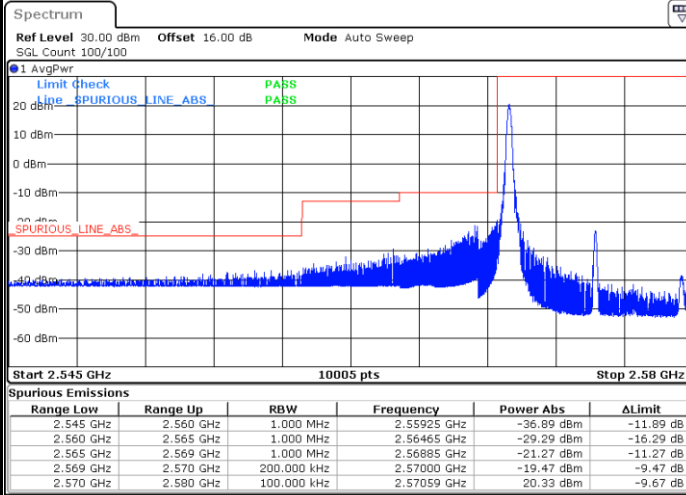
Highest Band Edge / Full RB



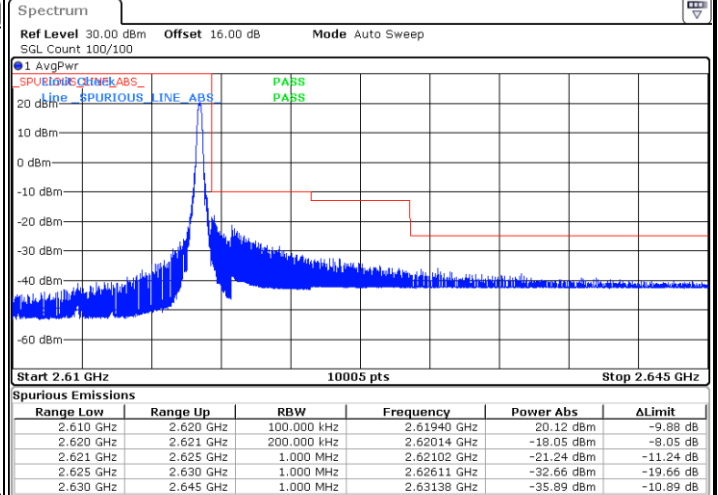


LTE Band 38 / 10MHz / 16QAM

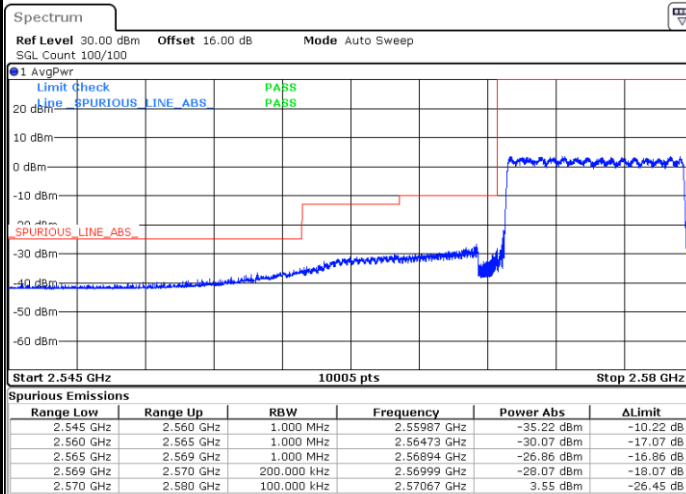
Lowest Band Edge / 1 RB



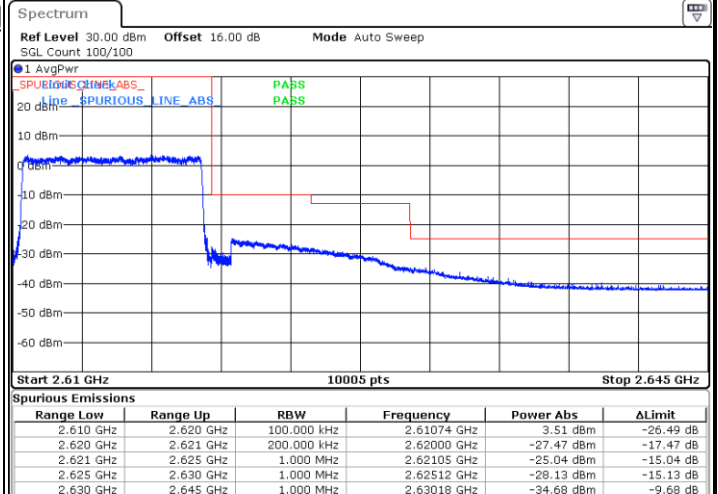
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



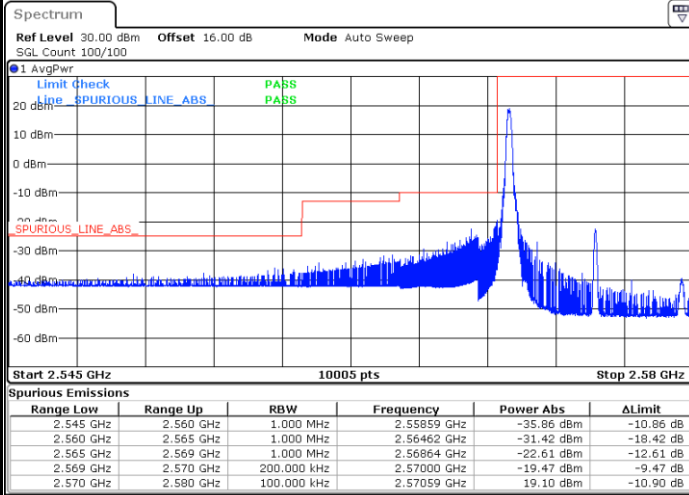
Highest Band Edge / Full RB



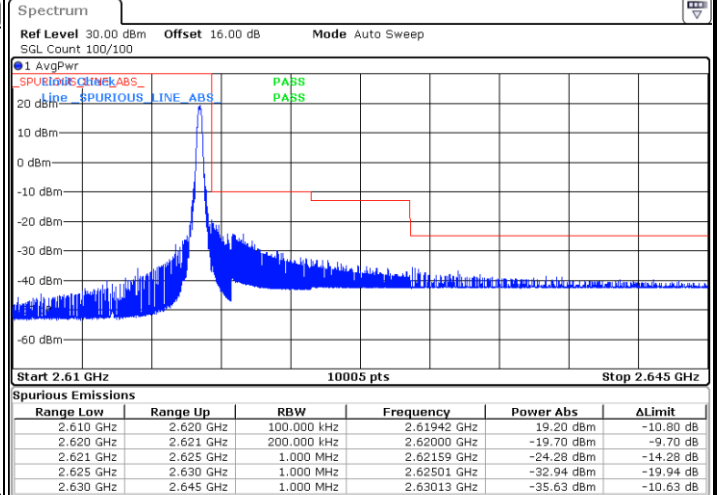


LTE Band 38 / 10MHz / 64QAM

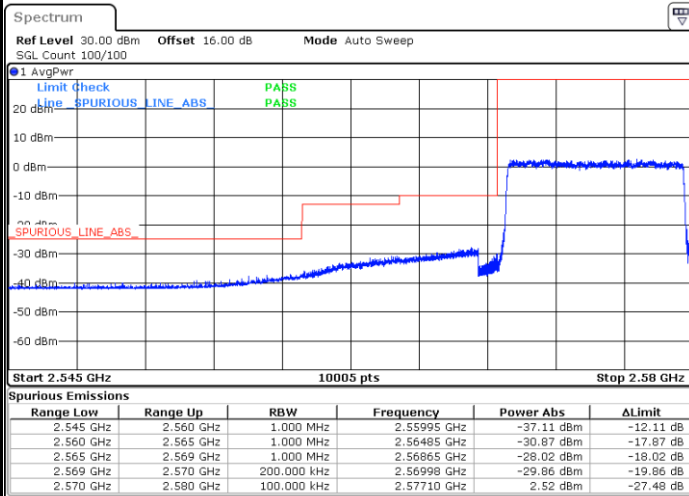
Lowest Band Edge / 1 RB



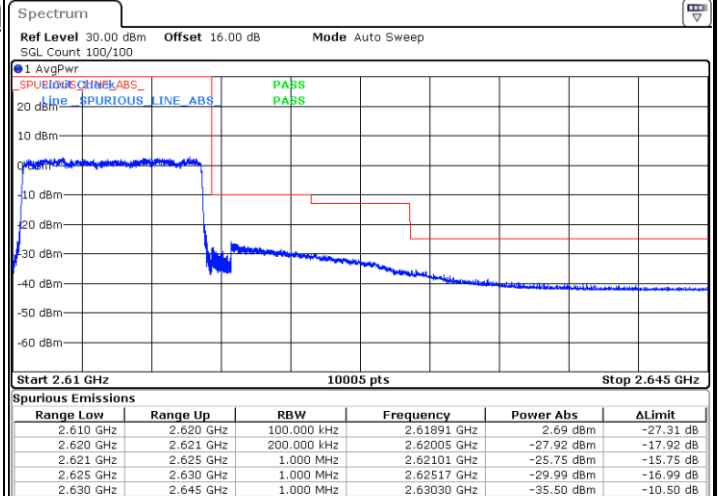
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



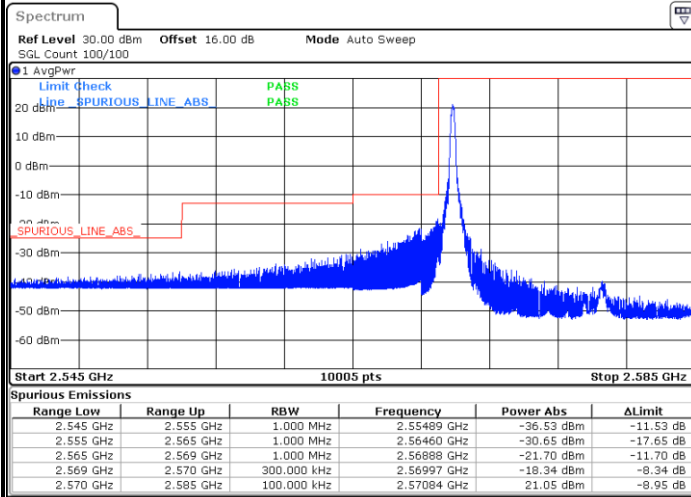
Highest Band Edge / Full RB



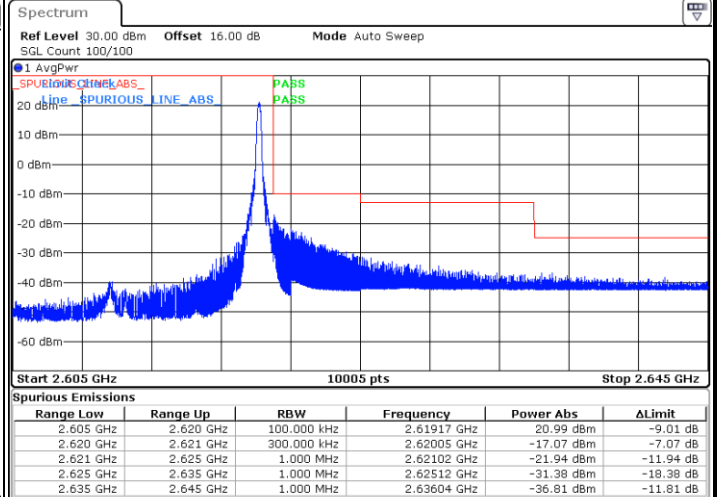


LTE Band 38 / 15MHz / QPSK

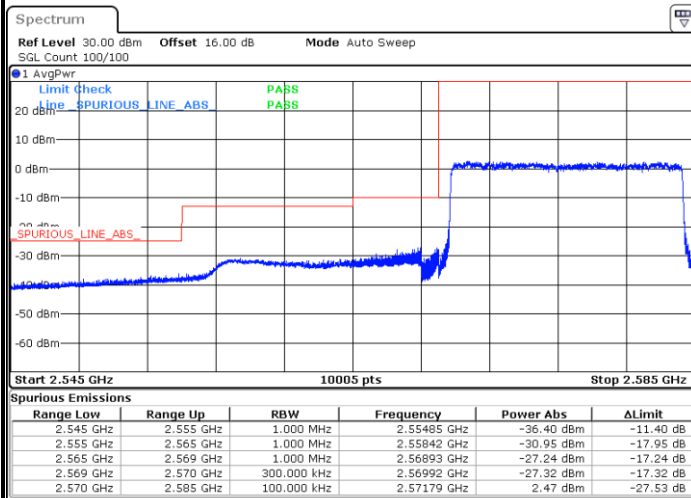
Lowest Band Edge / 1 RB



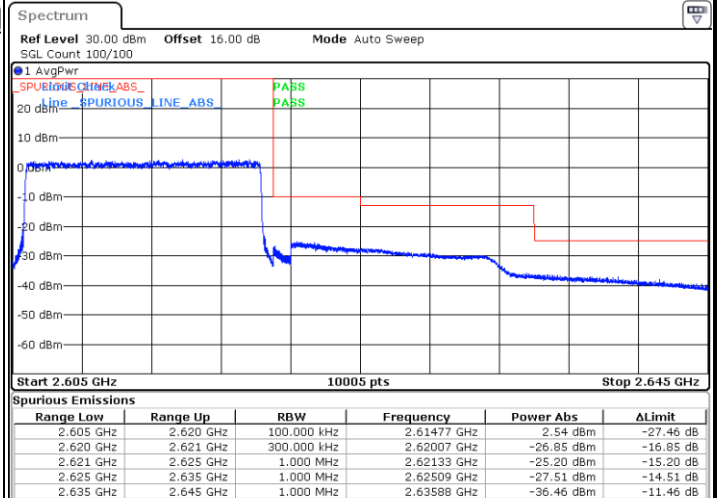
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



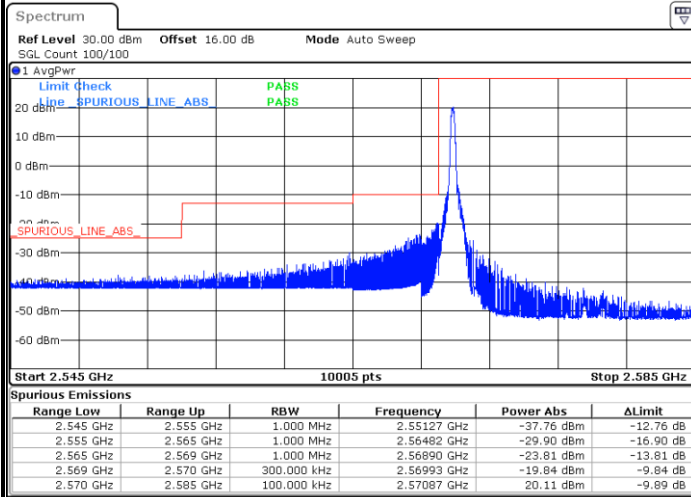
Highest Band Edge / Full RB



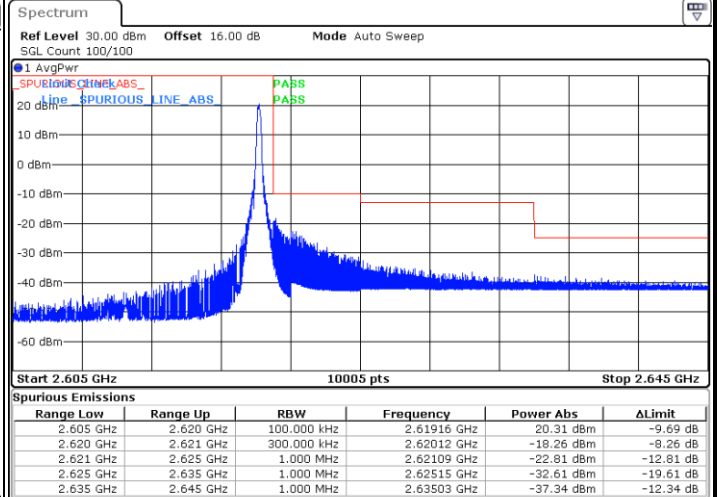


LTE Band 38 / 15MHz / 16QAM

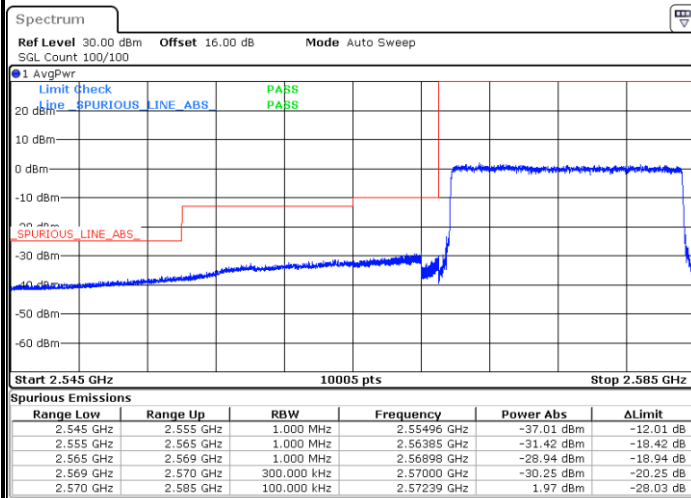
Lowest Band Edge / 1 RB



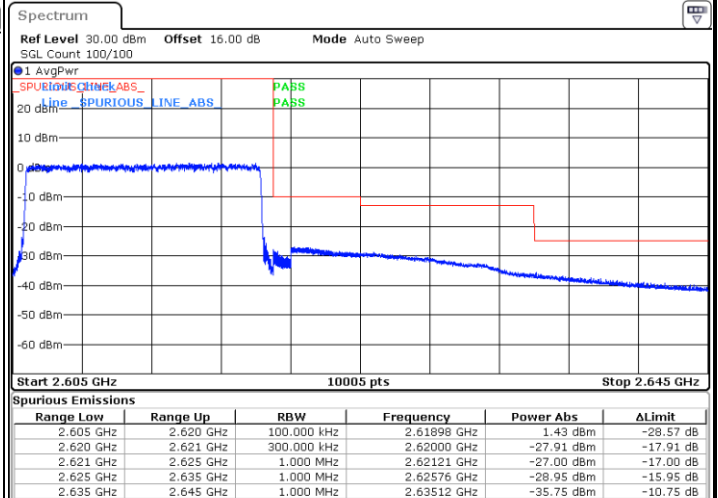
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



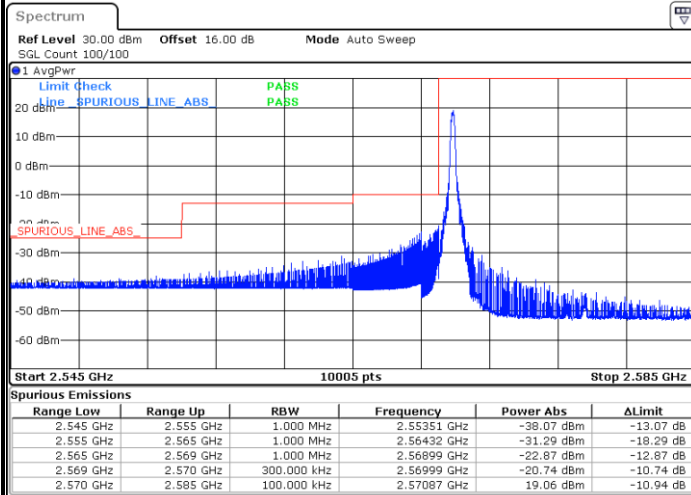
Highest Band Edge / Full RB



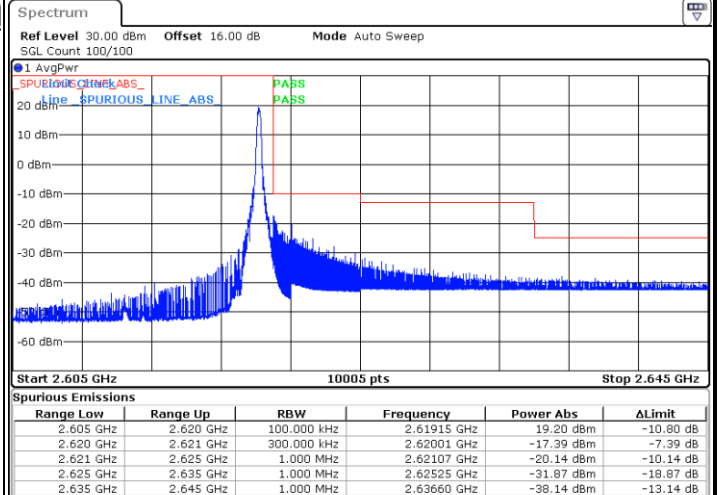


LTE Band 38 / 15MHz / 64QAM

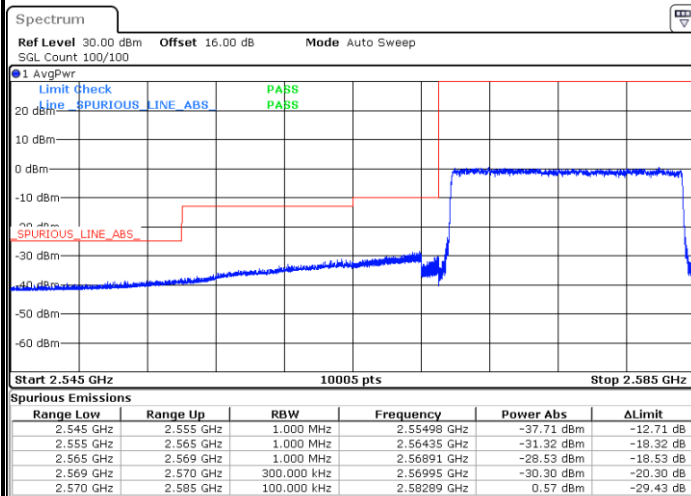
Lowest Band Edge / 1 RB



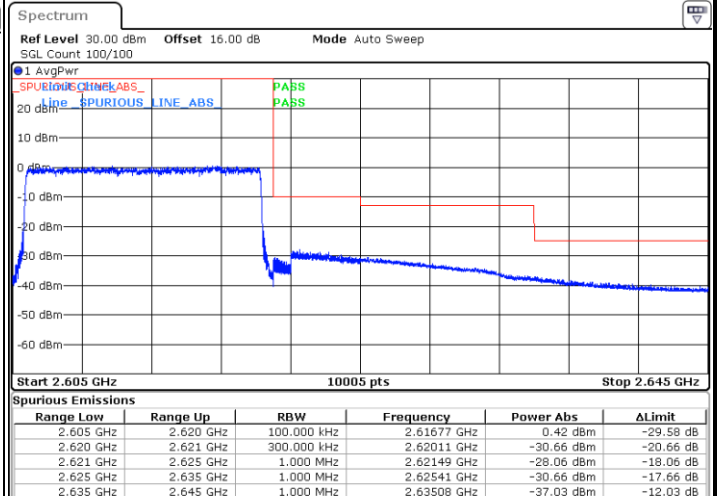
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



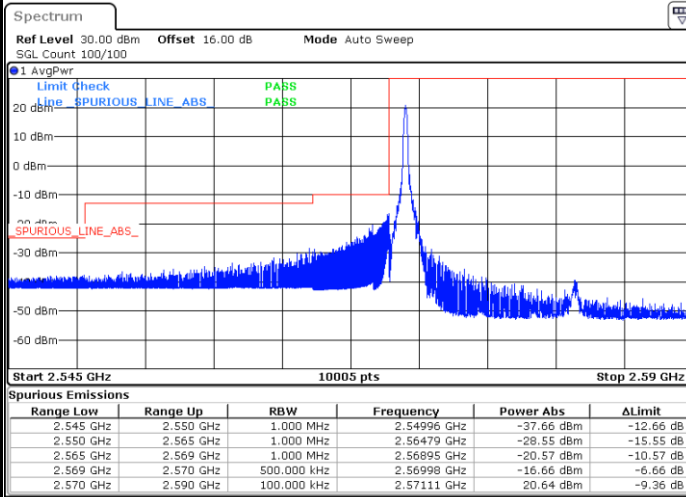
Highest Band Edge / Full RB



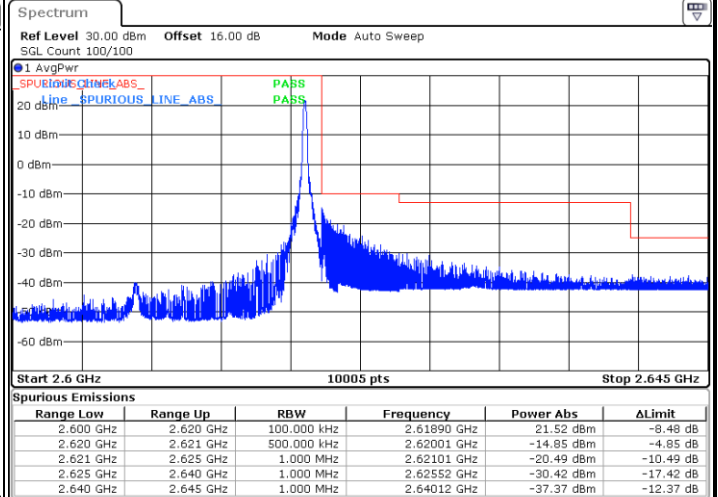


LTE Band 38 / 20MHz / QPSK

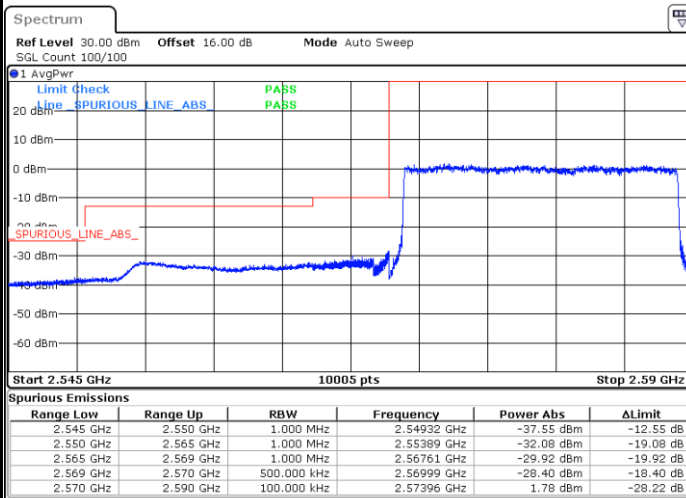
Lowest Band Edge / 1 RB



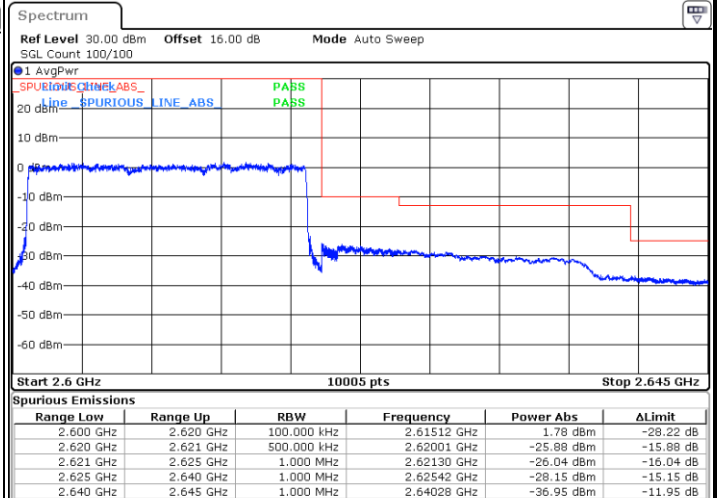
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



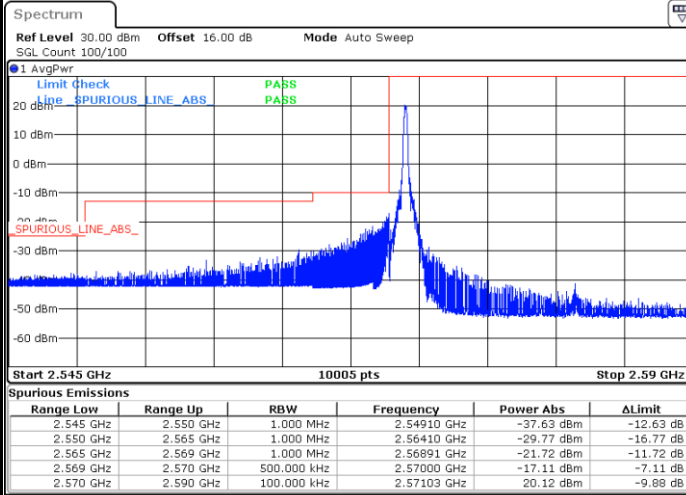
Highest Band Edge / Full RB



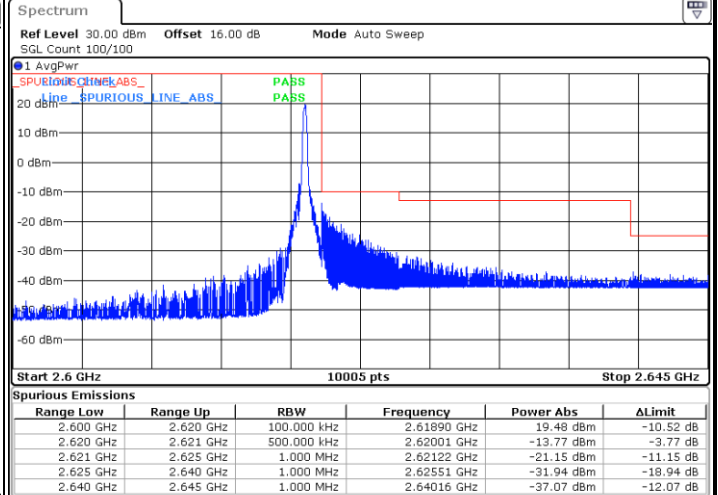


LTE Band 38 / 20MHz / 16QAM

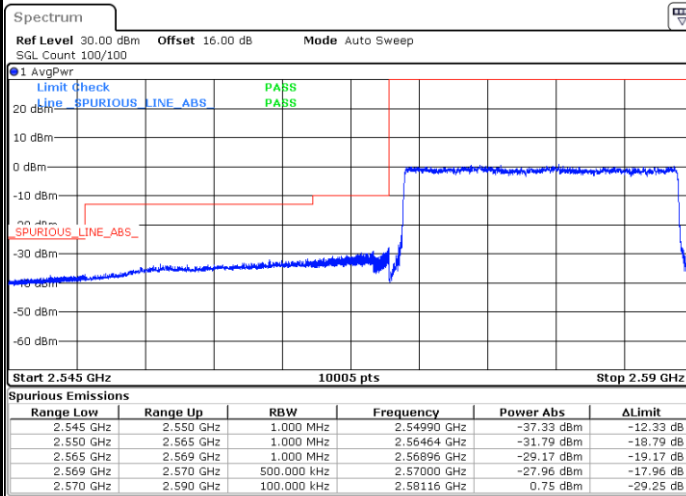
Lowest Band Edge / 1 RB



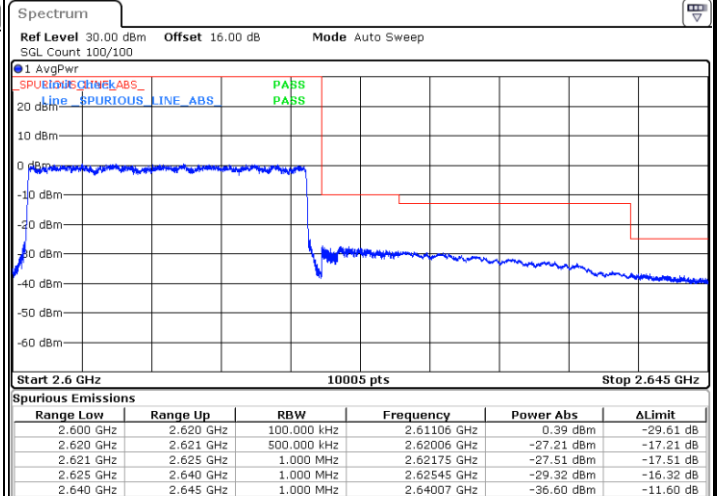
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



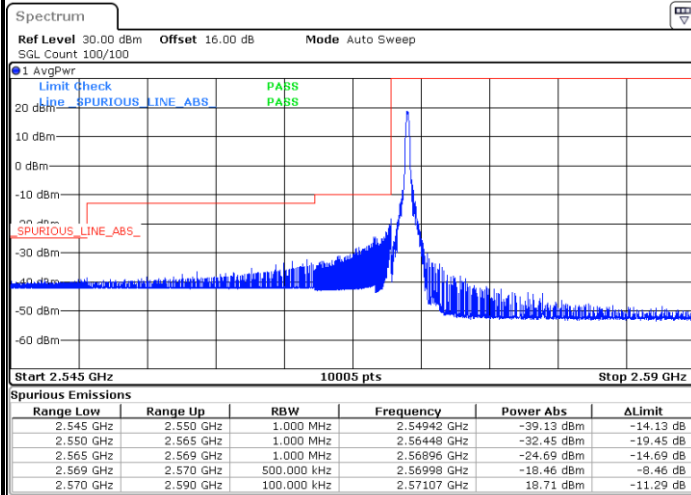
Highest Band Edge / Full RB



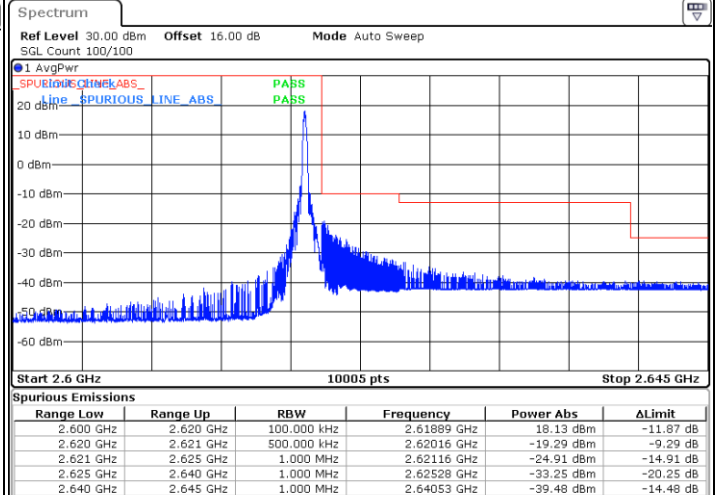


LTE Band 38 / 20MHz / 64QAM

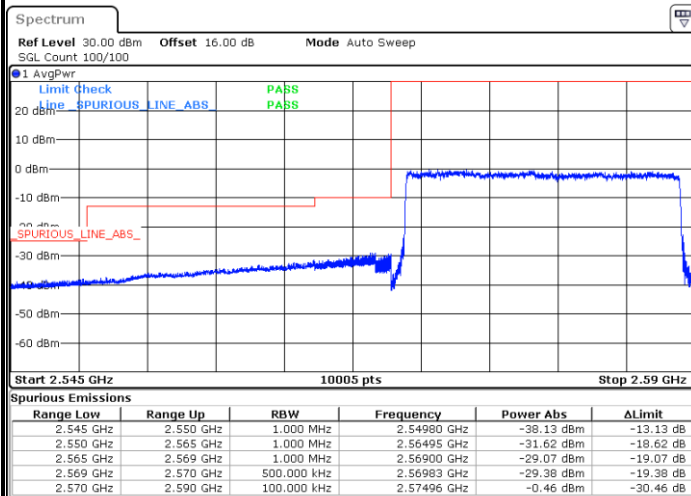
Lowest Band Edge / 1 RB



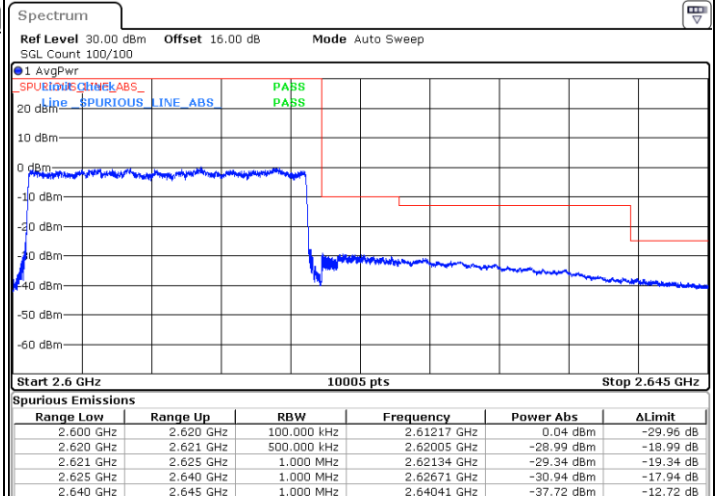
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

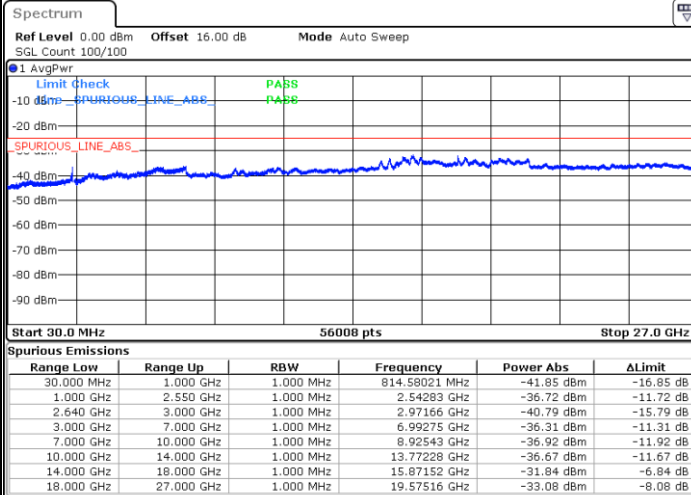




Conducted Spurious Emission

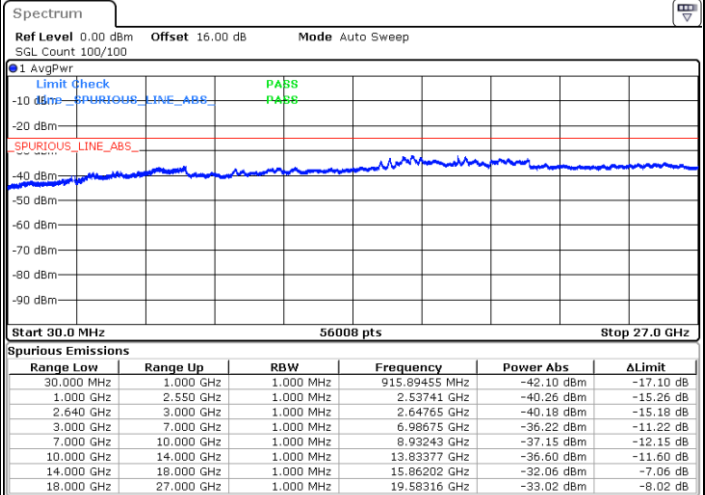
LTE Band 38 / 5MHz

Lowest Channel / QPSK



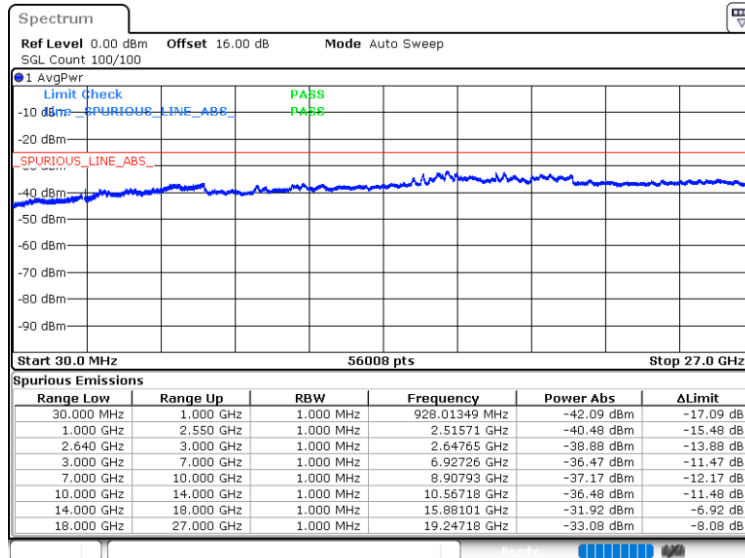
Date: 23.SEP.2021 15:00:50

Middle Channel / QPSK



Date: 23.SEP.2021 15:01:51

Highest Channel / QPSK

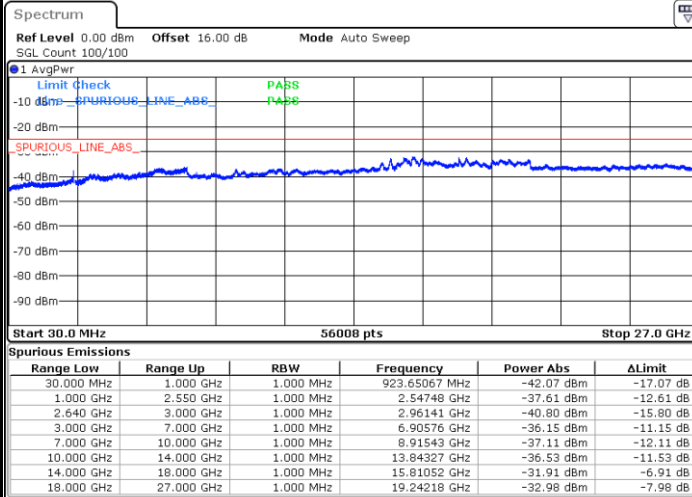


Date: 23.SEP.2021 15:02:52



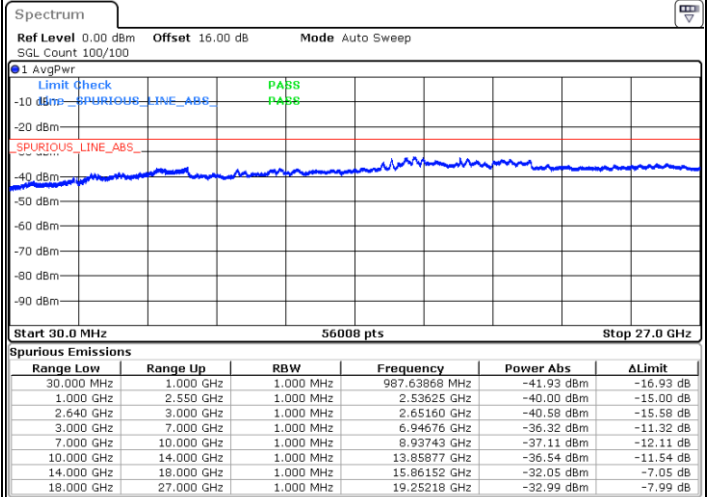
LTE Band 38 / 10MHz

Lowest Channel / QPSK



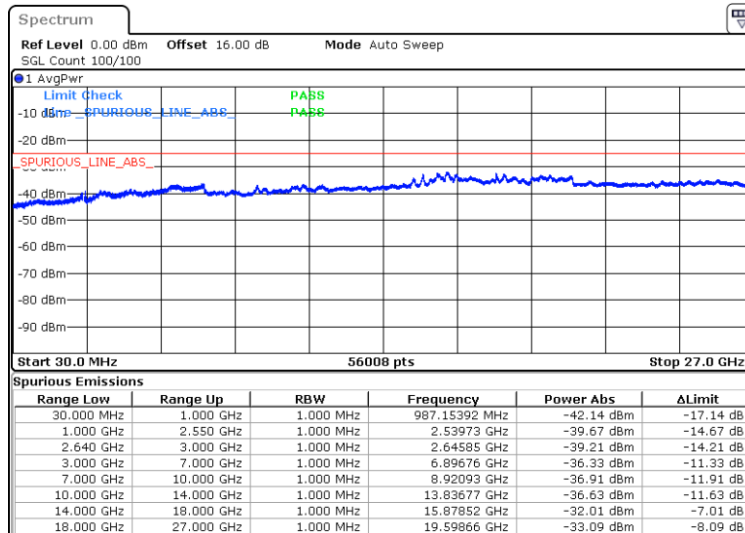
Date: 23.SEP.2021 15:03:54

Middle Channel / QPSK



Date: 23.SEP.2021 15:04:55

Highest Channel / QPSK



Date: 23.SEP.2021 15:05:56