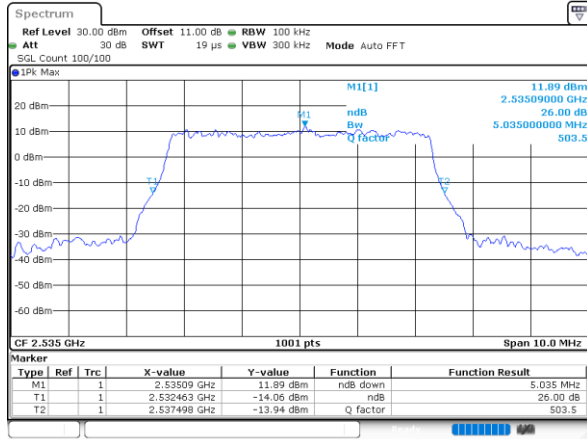




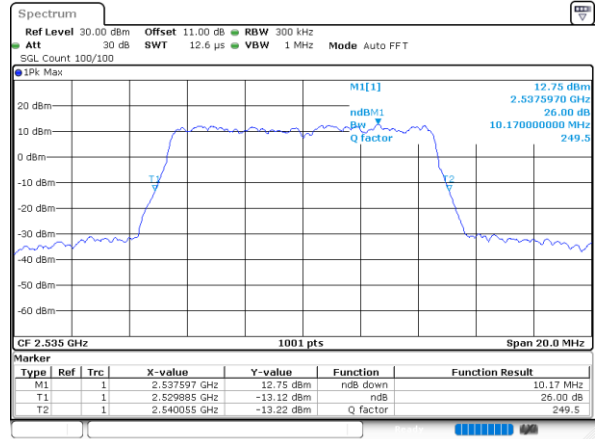
LTE Band 7

Middle Channel / 5MHz / 256QAM



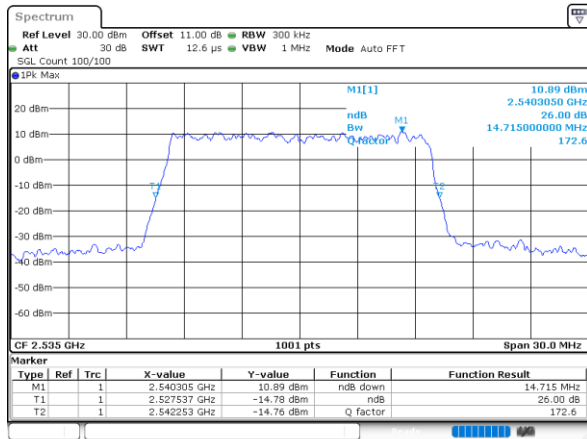
Date: 19_AUG,2022 09:24:34

Middle Channel / 10MHz / 256QAM



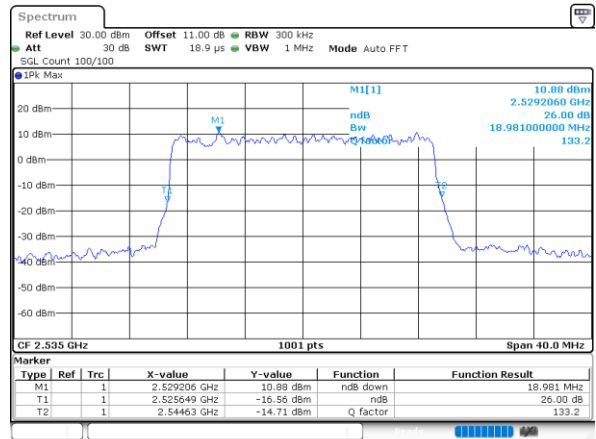
Date: 19_AUG,2022 09:29:44

Middle Channel / 15MHz / 256QAM



Date: 19_AUG,2022 09:34:54

Middle Channel / 20MHz / 256QAM



Date: 19_AUG,2022 09:40:01

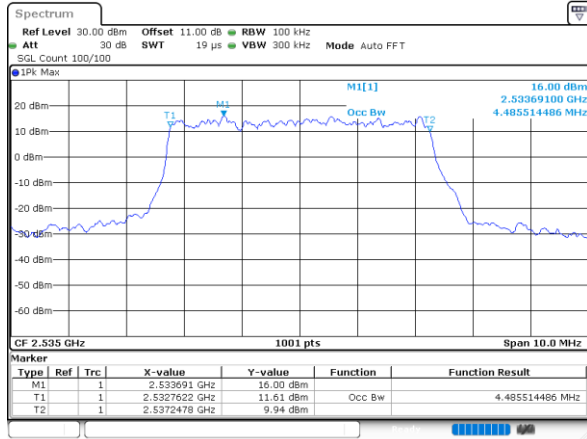
**Occupied Bandwidth**

Mode	LTE Band 7 : 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	-	-	-	-	4.49	4.52	9.05	9.11	13.52	13.49	17.94	17.82
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.50	4.50	9.11	9.03	13.46	13.52	17.90	17.90



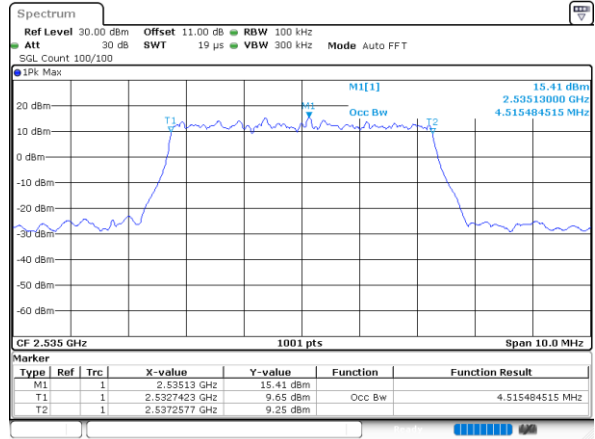
LTE Band 7

Middle Channel / 5MHz / QPSK



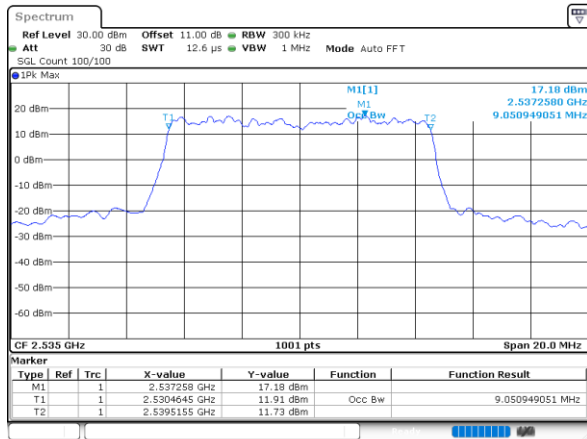
Date: 19_AUG.2022 04:04:08

Middle Channel / 5MHz / 16QAM



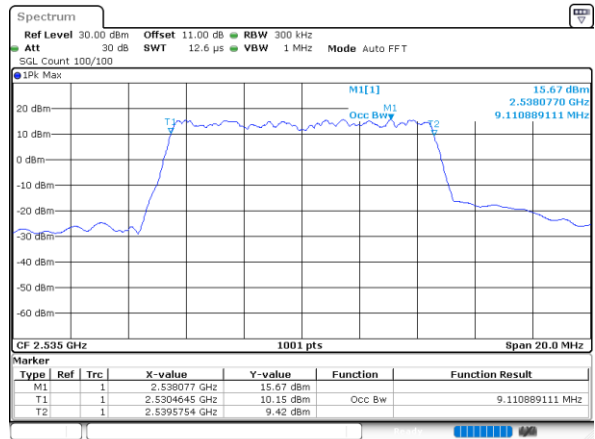
Date: 19_AUG.2022 04:04:37

Middle Channel / 10MHz / QPSK



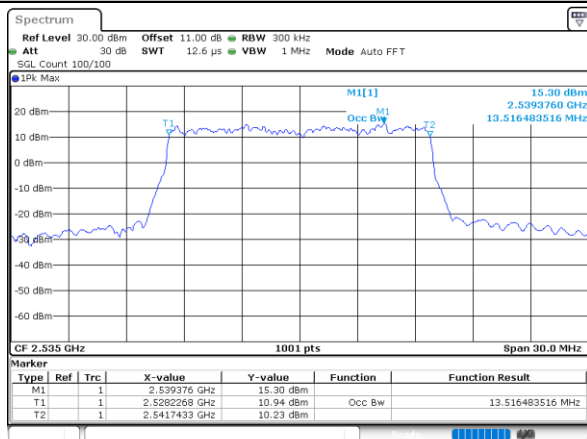
Date: 19_AUG.2022 04:23:32

Middle Channel / 10MHz / 16QAM



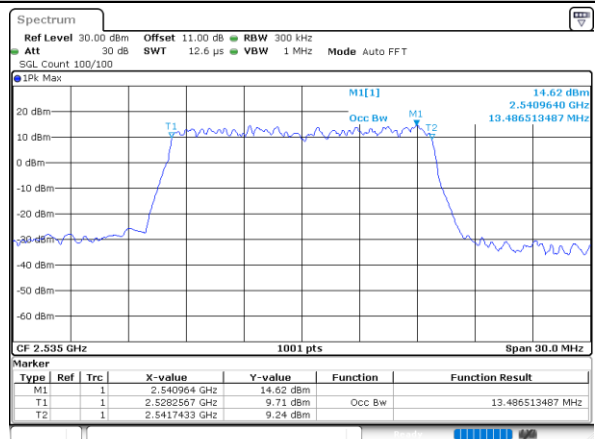
Date: 19_AUG.2022 04:24:02

Middle Channel / 15MHz / QPSK



Date: 19_AUG.2022 04:43:07

Middle Channel / 15MHz / 16QAM

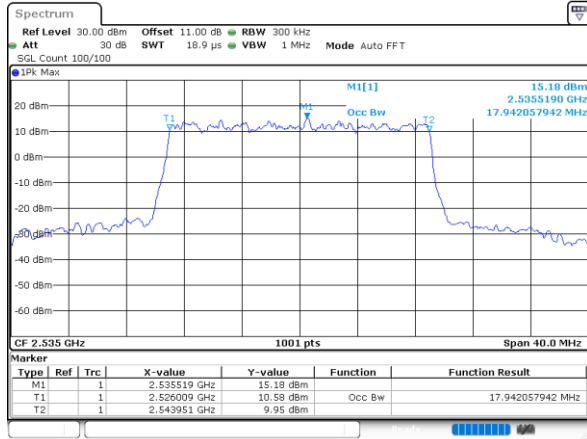


Date: 19_AUG.2022 04:43:36



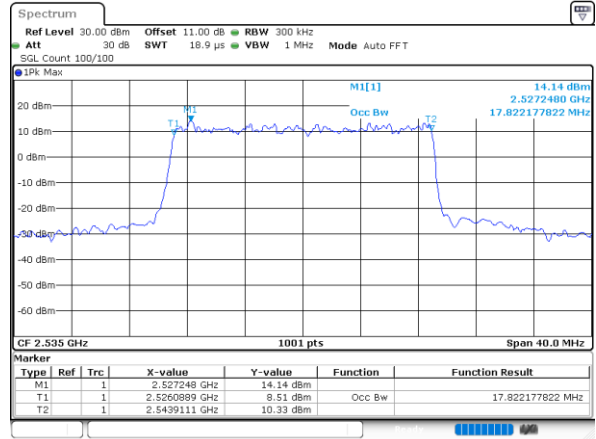
LTE Band 7

Middle Channel / 20MHz / QPSK



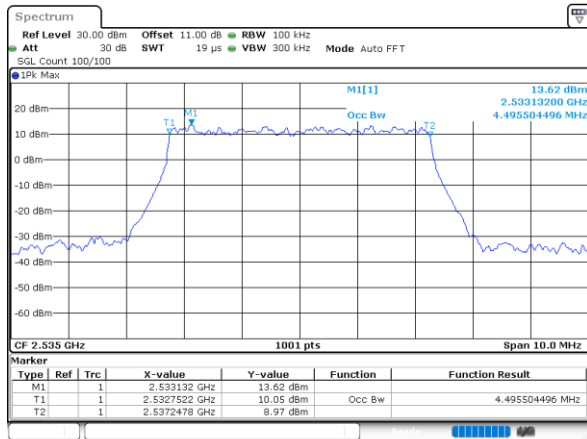
Date: 19.AUG.2022 09:06:44

Middle Channel / 20MHz / 16QAM



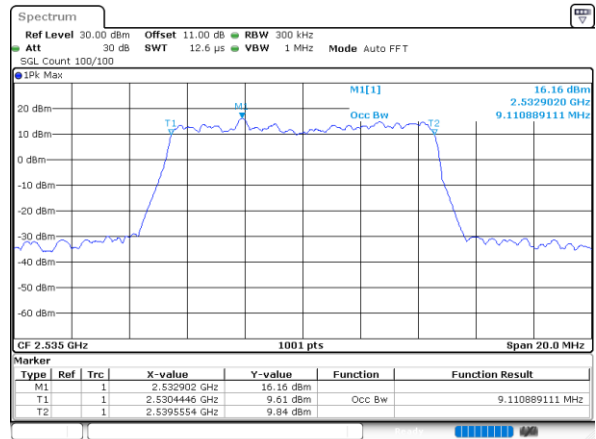
Date: 19.AUG.2022 09:07:13

Middle Channel / 5MHz / 64QAM



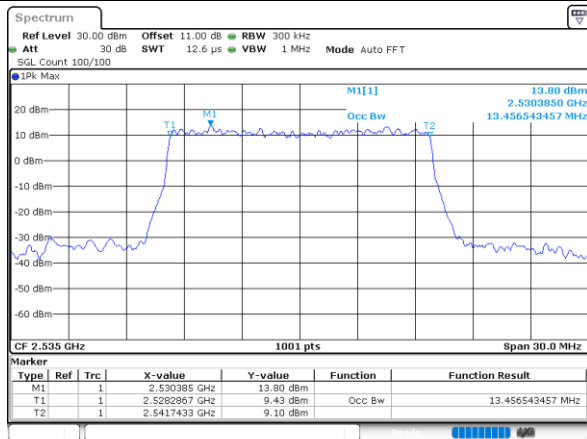
Date: 19.AUG.2022 04:15:03

Middle Channel / 10MHz / 64QAM



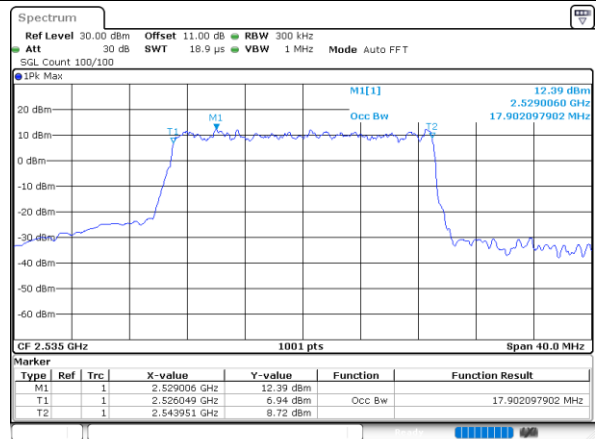
Date: 19.AUG.2022 04:34:32

Middle Channel / 15MHz / 64QAM



Date: 19.AUG.2022 04:54:07

Middle Channel / 20MHz / 64QAM

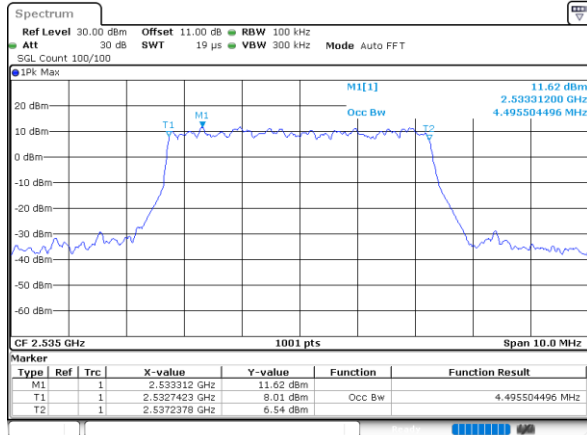


Date: 19.AUG.2022 09:17:40

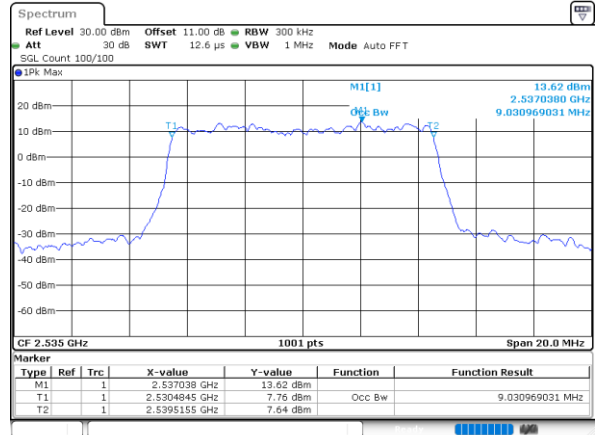


LTE Band 7

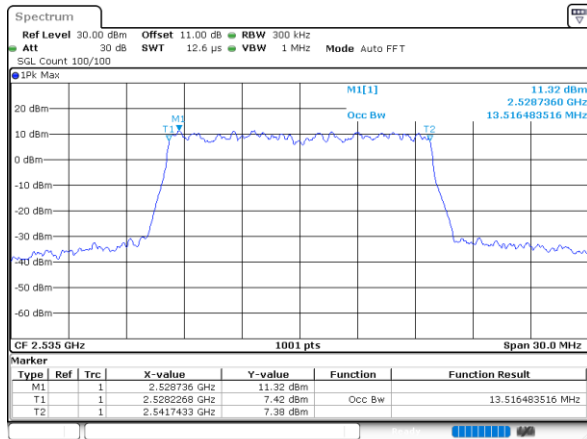
Middle Channel / 5MHz / 256QAM



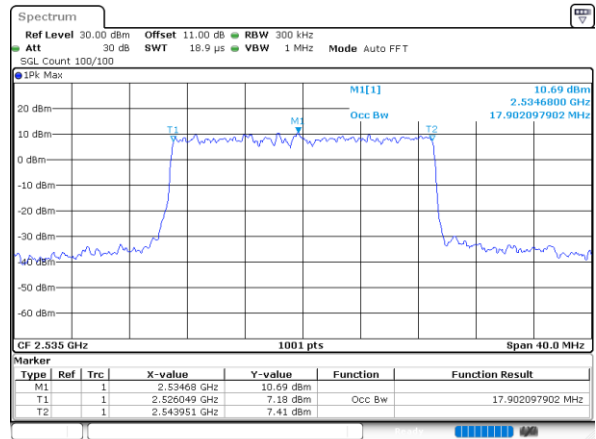
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM

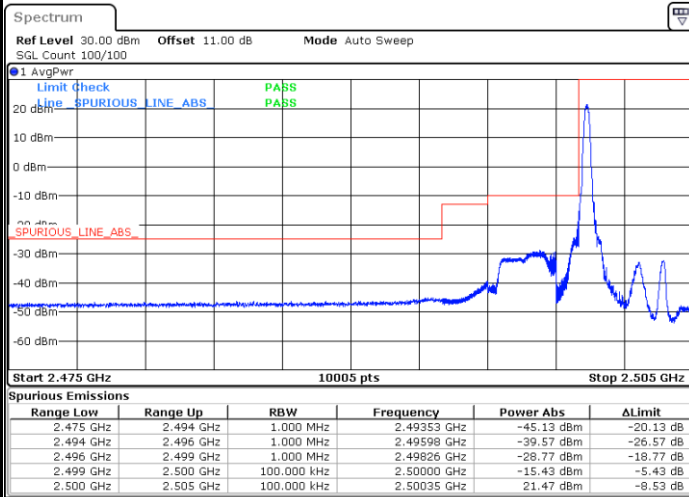




Conducted Band Edge

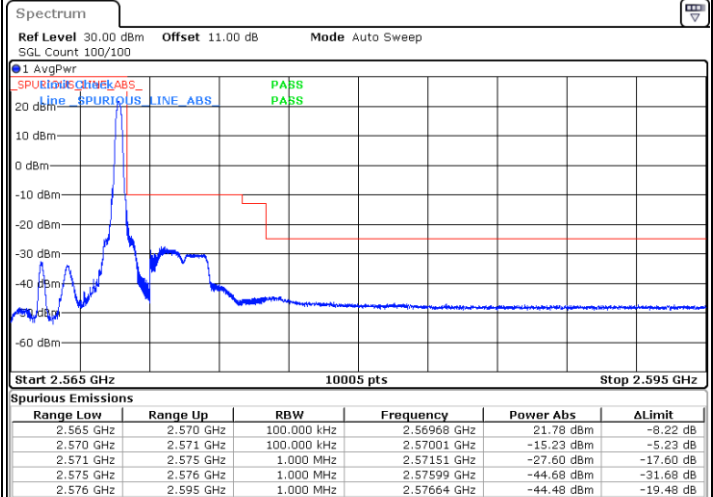
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



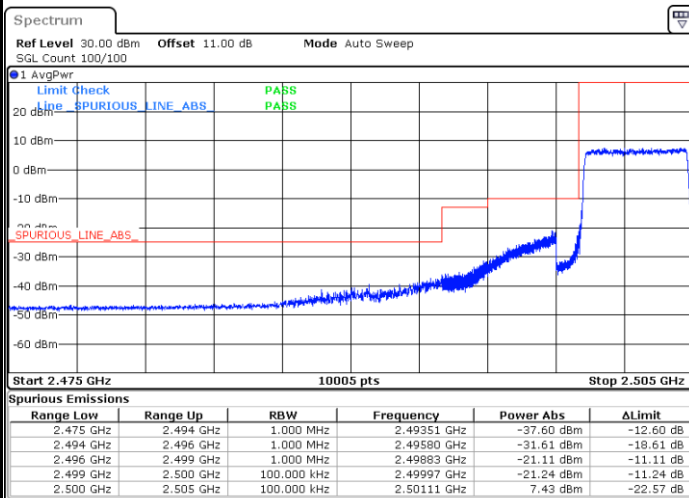
Date: 19.AUG.2022 03:59:07

Highest Band Edge / 1 RB



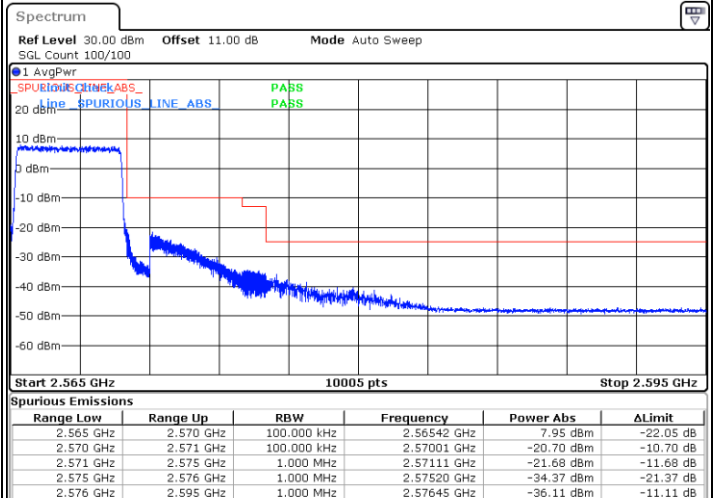
Date: 19.AUG.2022 04:07:57

Lowest Band Edge / Full RB



Date: 19.AUG.2022 04:01:17

Highest Band Edge / Full RB

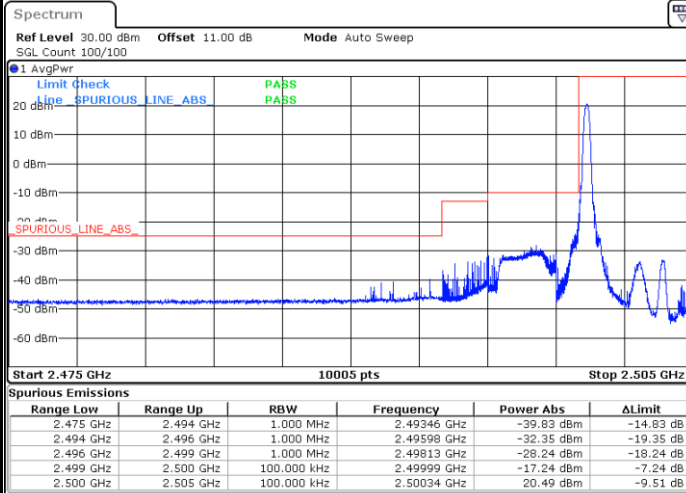


Date: 19.AUG.2022 04:10:04

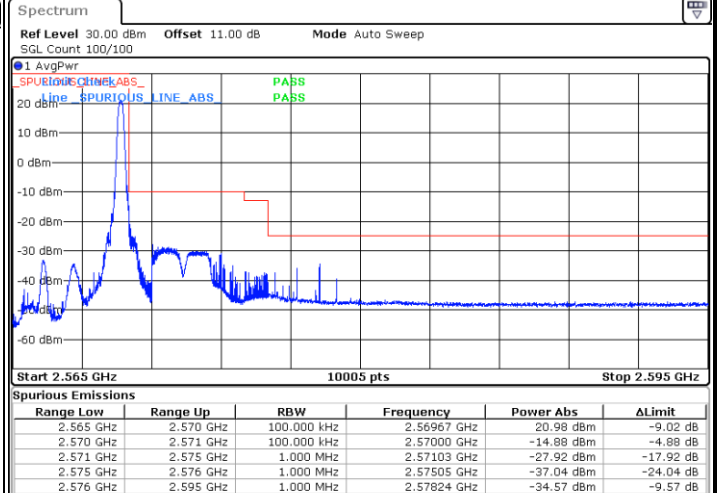


LTE Band 7 / 5MHz / 16QAM

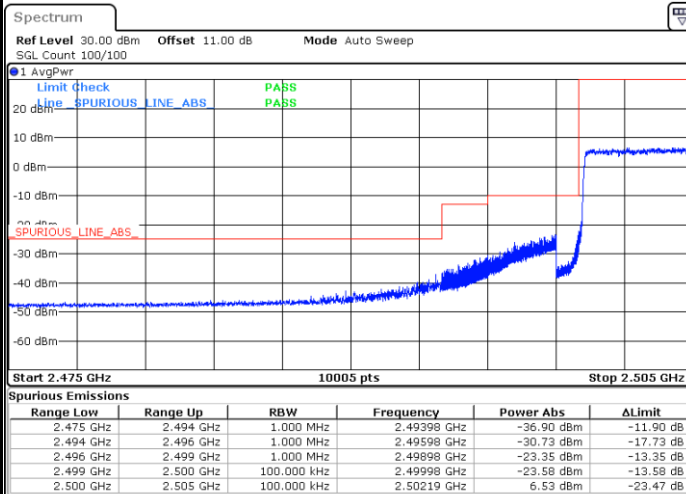
Lowest Band Edge / 1RB



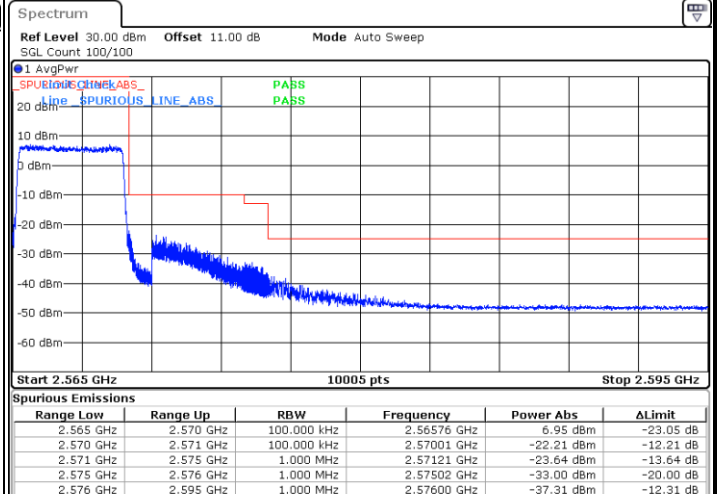
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



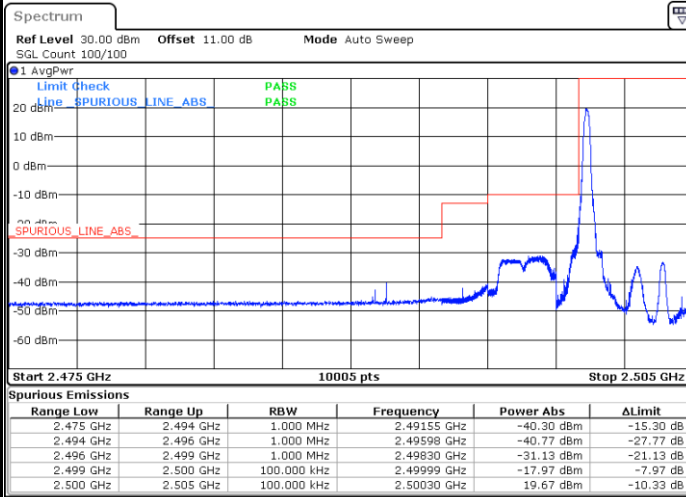
Highest Band Edge / Full RB



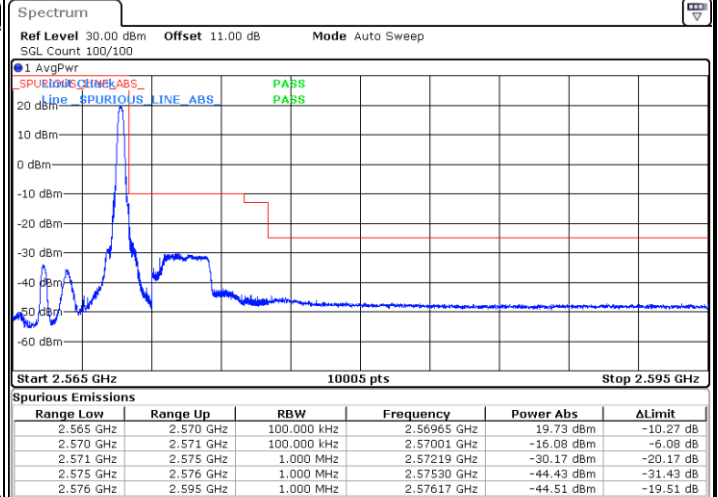


LTE Band 7 / 5MHz / 64QAM

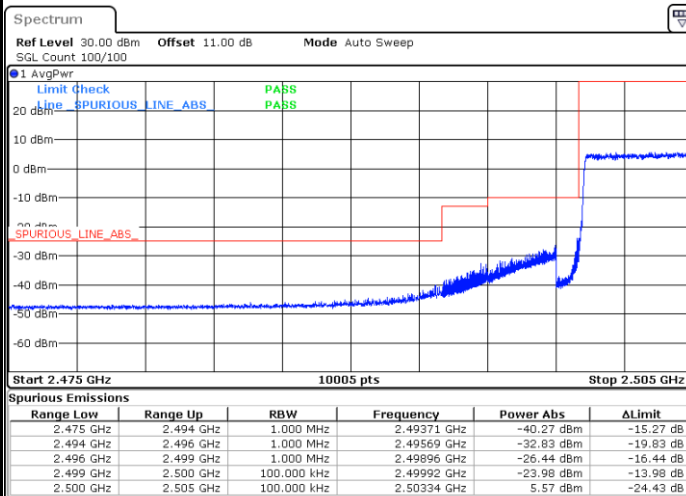
Lowest Band Edge / 1RB



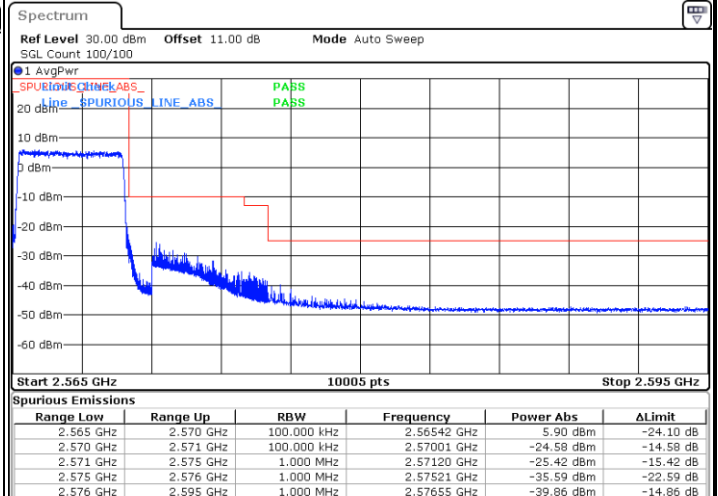
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



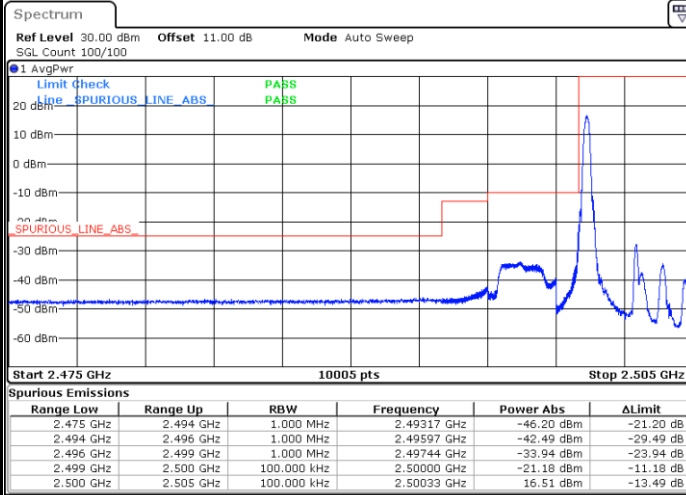
Highest Band Edge / Full RB



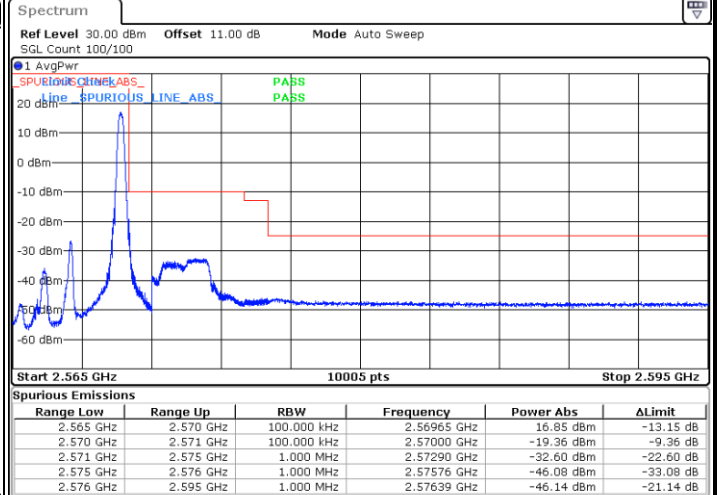


LTE Band 7 / 5MHz / 256QAM

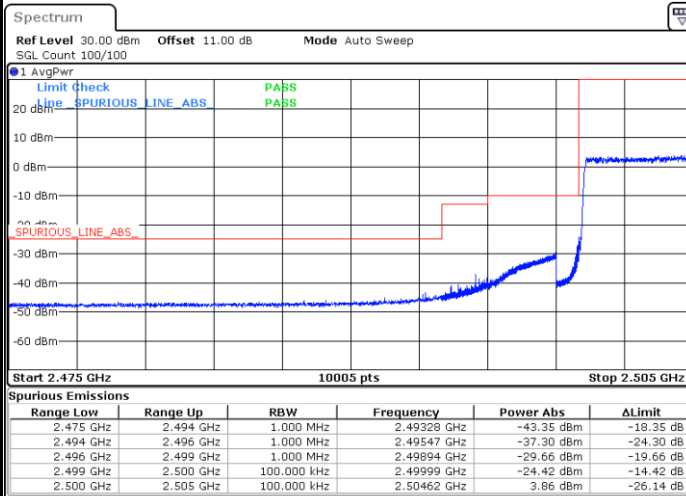
Lowest Band Edge / 1RB



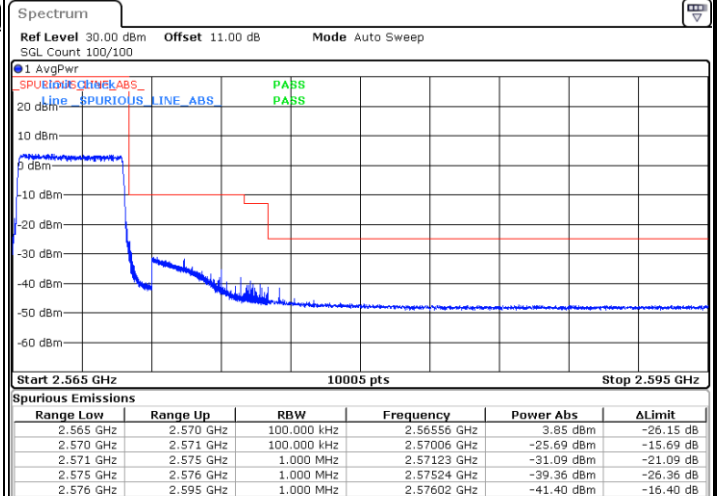
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



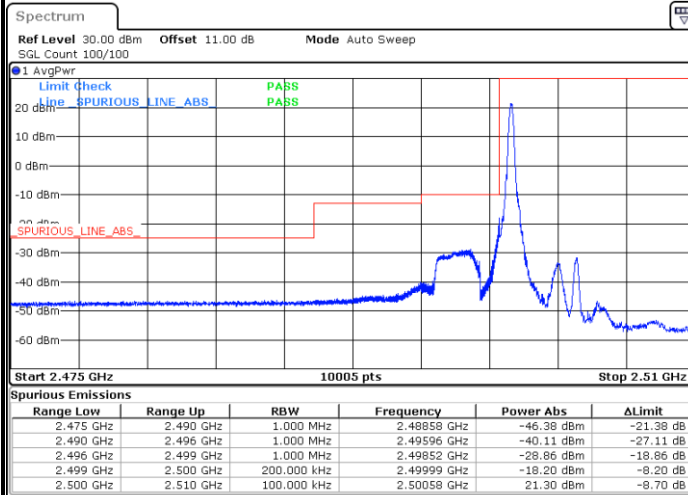
Highest Band Edge / Full RB



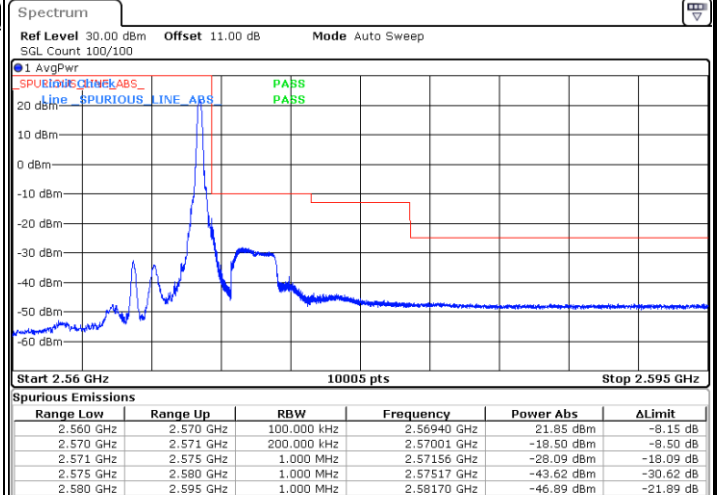


LTE Band 7 / 10MHz / QPSK

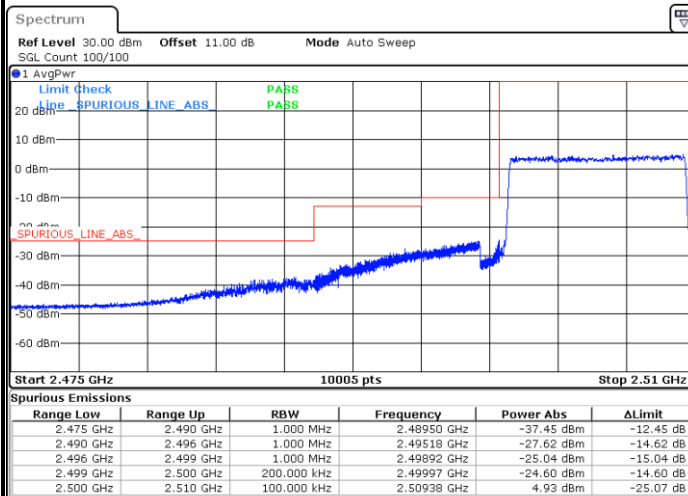
Lowest Band Edge / 1 RB



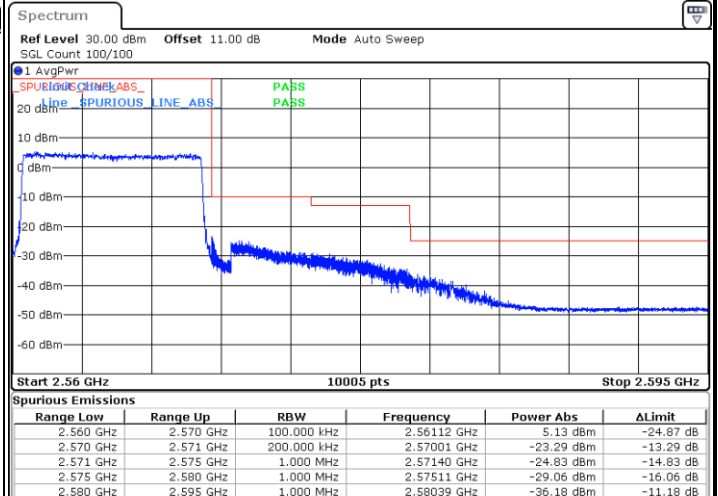
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



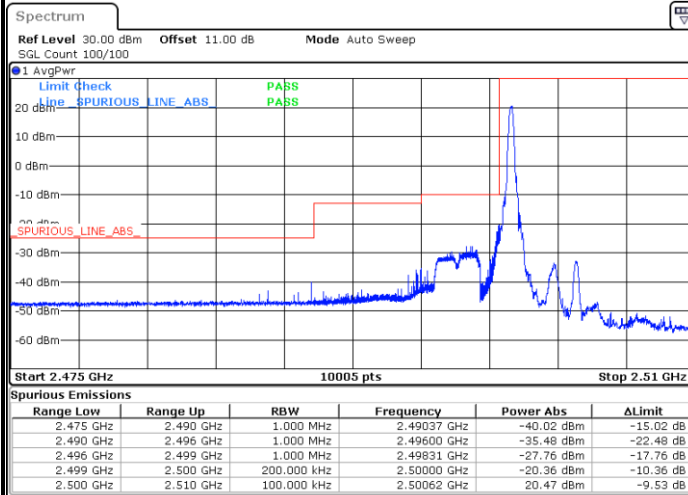
Highest Band Edge / Full RB



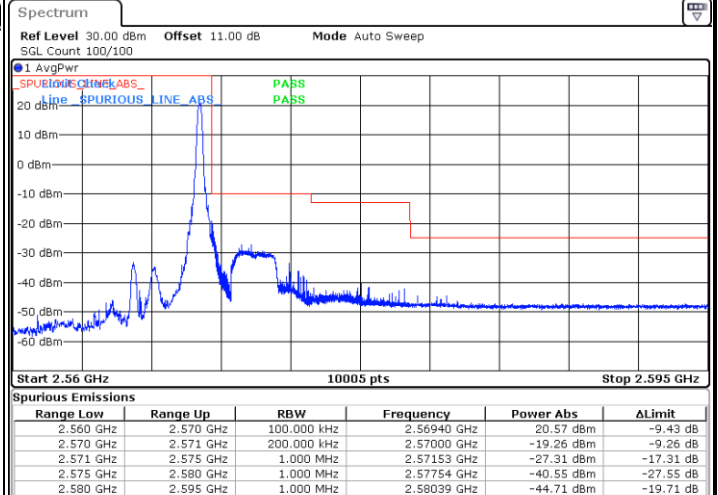


LTE Band 7 / 10MHz / 16QAM

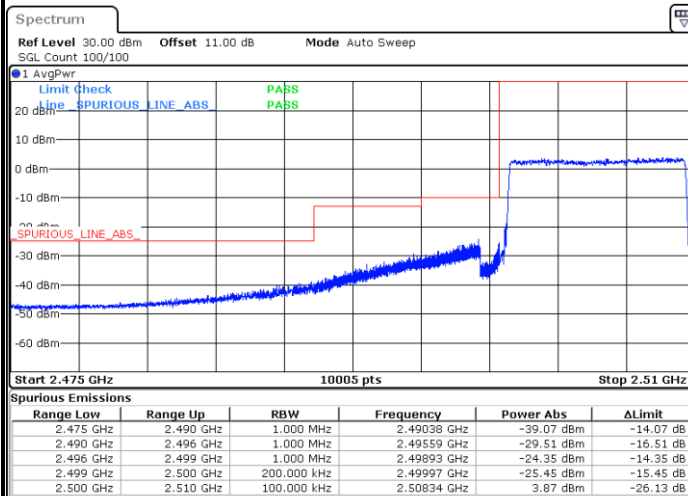
Lowest Band Edge / 1 RB



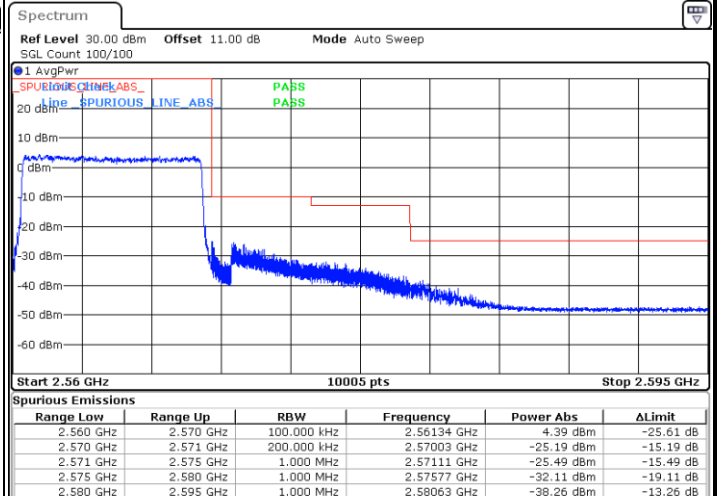
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



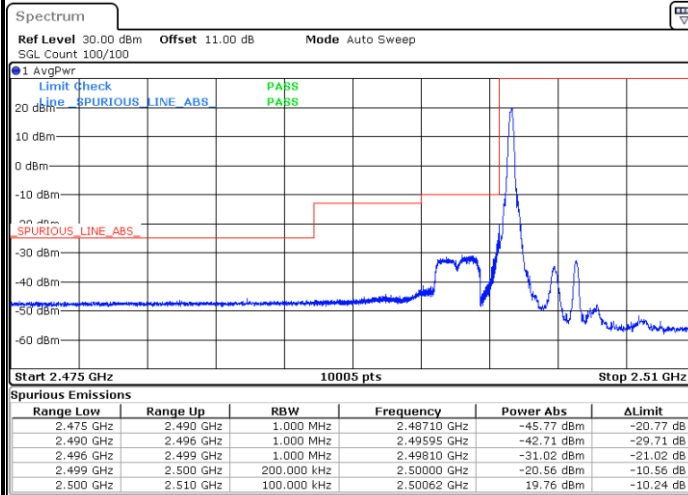
Highest Band Edge / Full RB



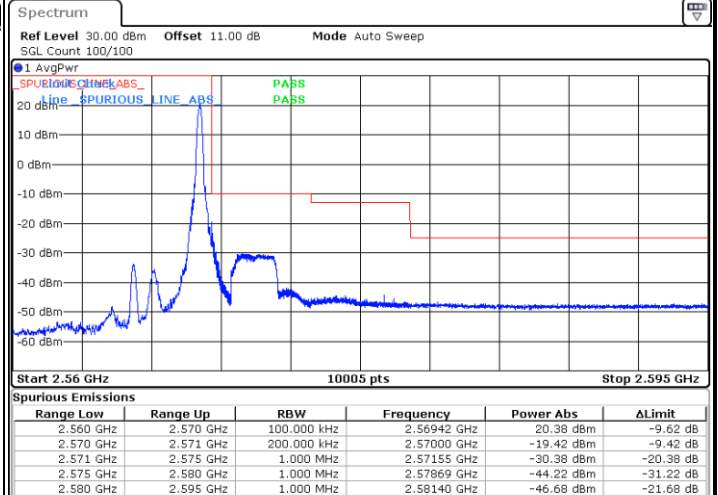


LTE Band 7 / 10MHz / 64QAM

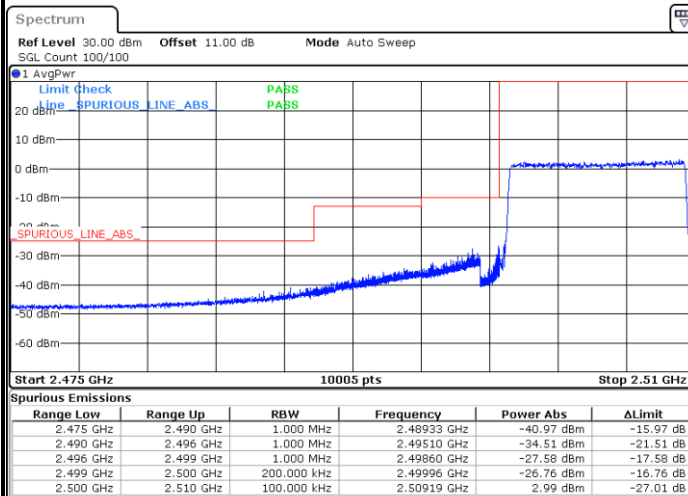
Lowest Band Edge / 1 RB



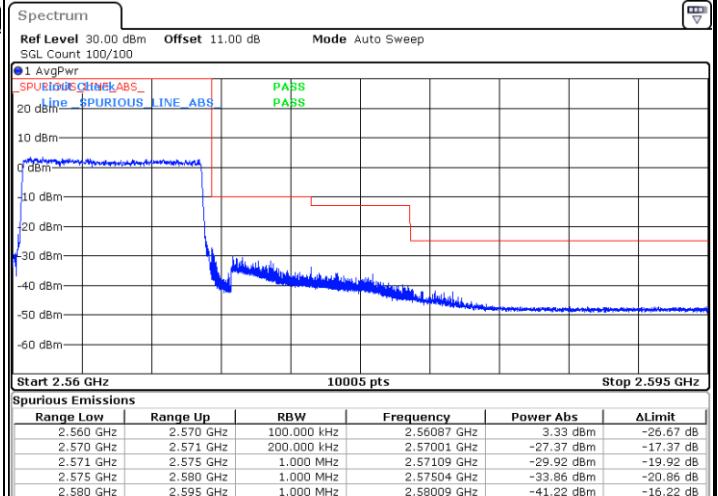
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



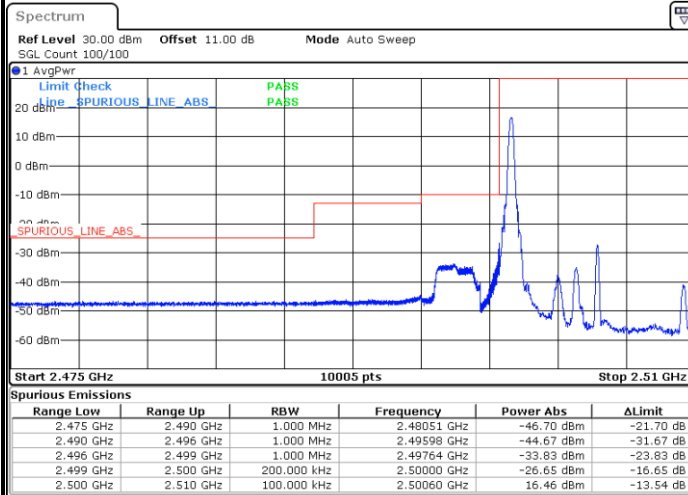
Highest Band Edge / Full RB



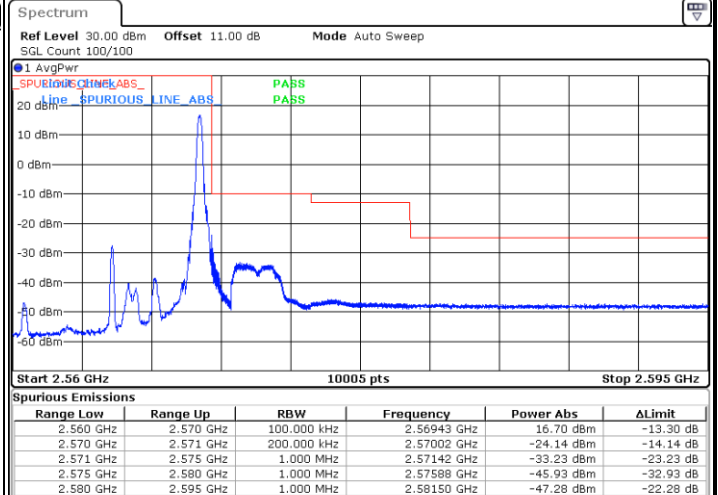


LTE Band 7 / 10MHz / 256QAM

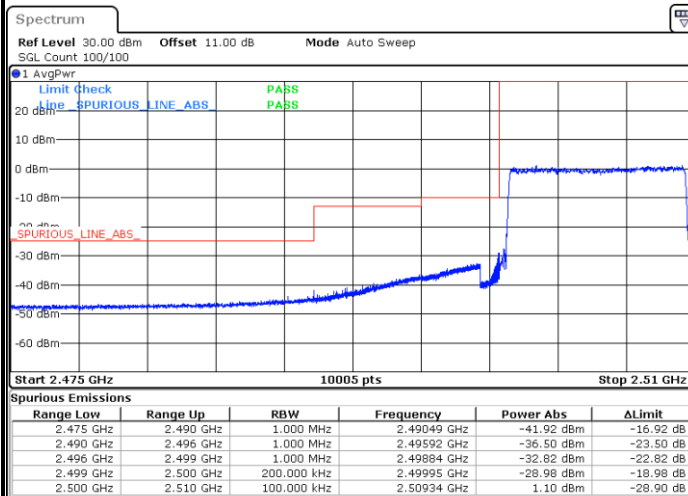
Lowest Band Edge / 1 RB



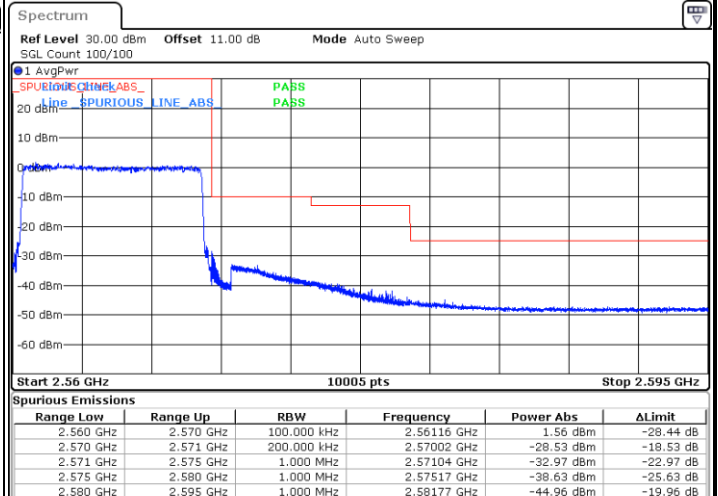
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



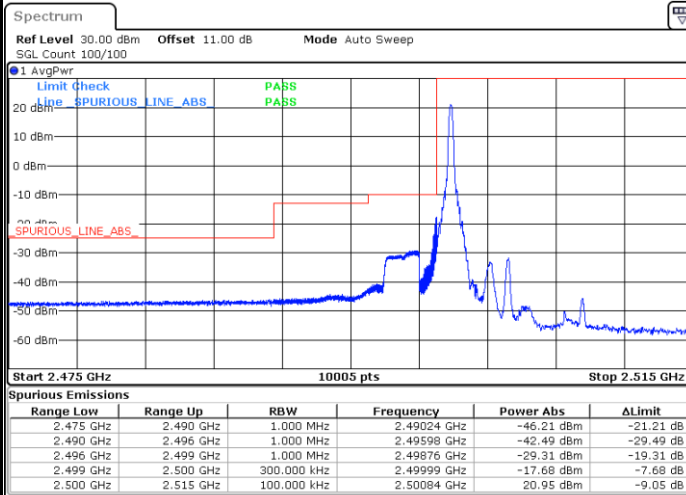
Highest Band Edge / Full RB



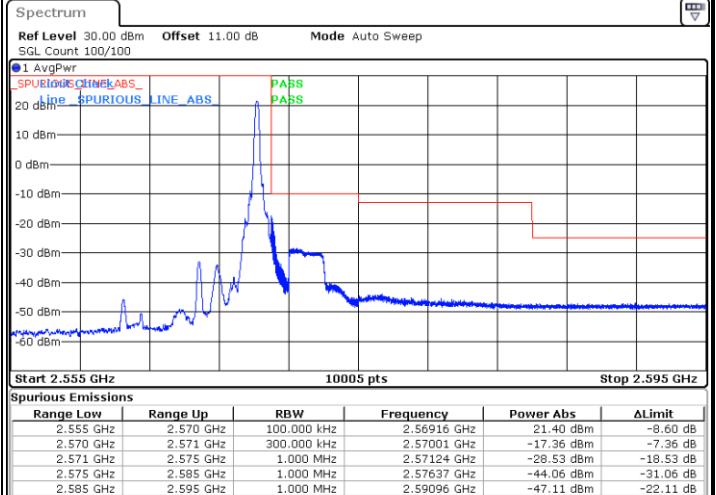


LTE Band 7 / 15MHz / QPSK

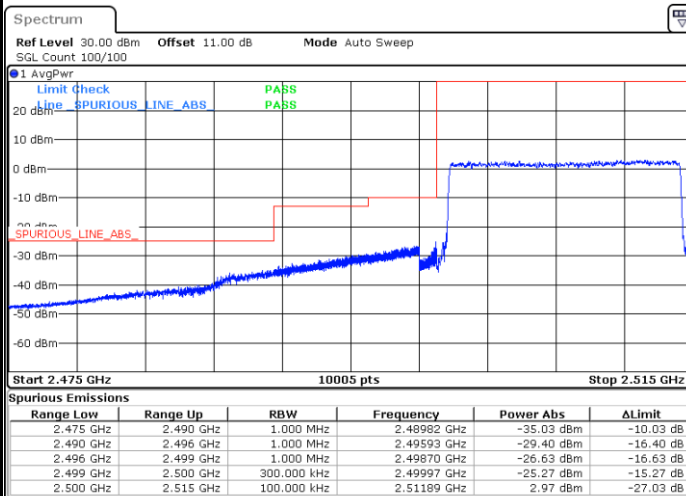
Lowest Band Edge / 1 RB



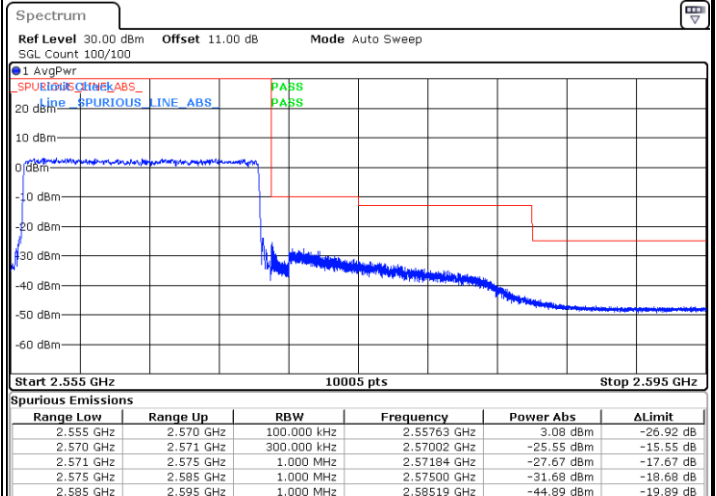
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



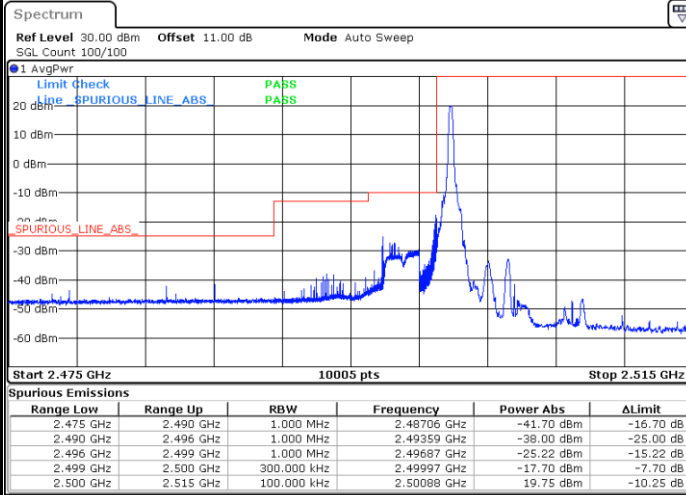
Highest Band Edge / Full RB



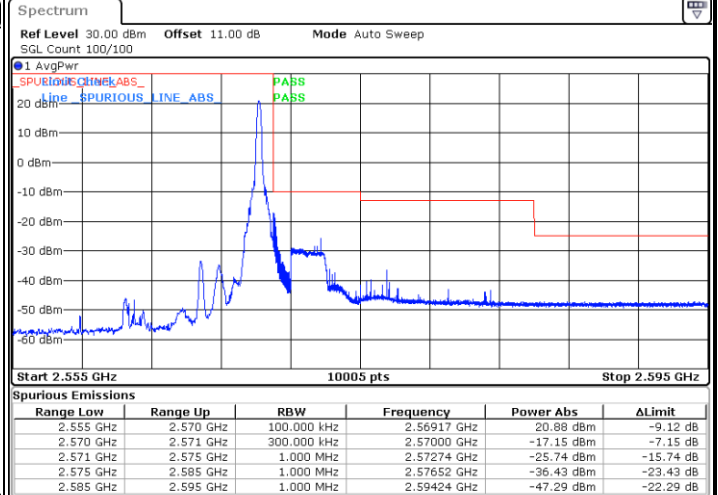


LTE Band 7 / 15MHz / 16QAM

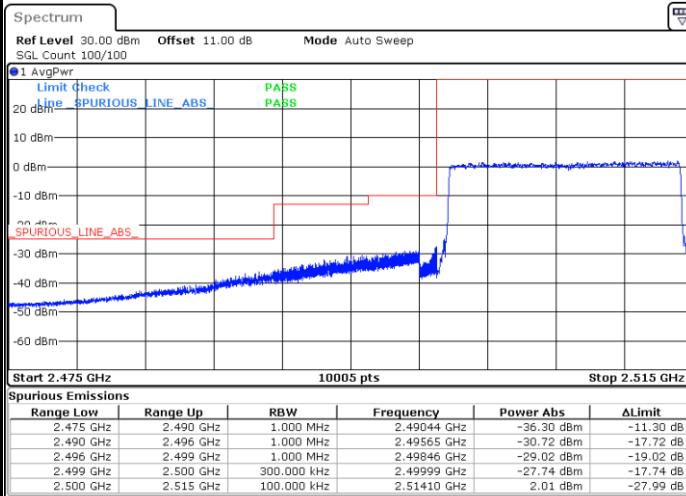
Lowest Band Edge / 1 RB



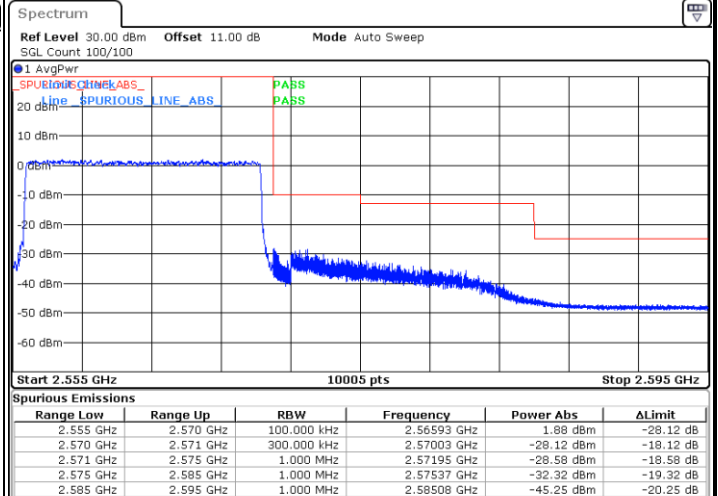
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



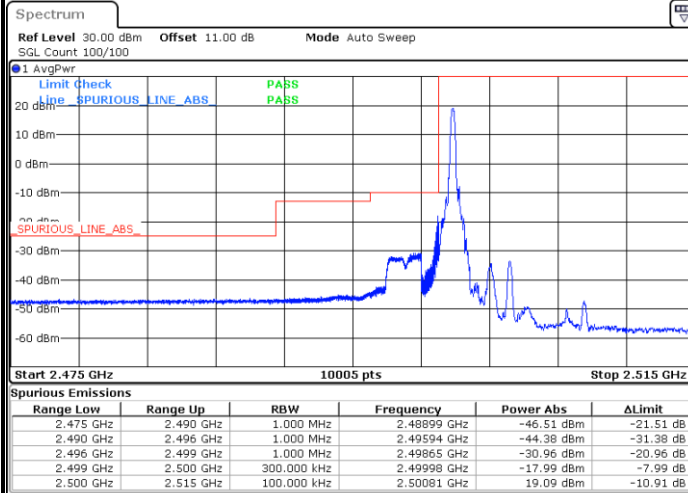
Highest Band Edge / Full RB





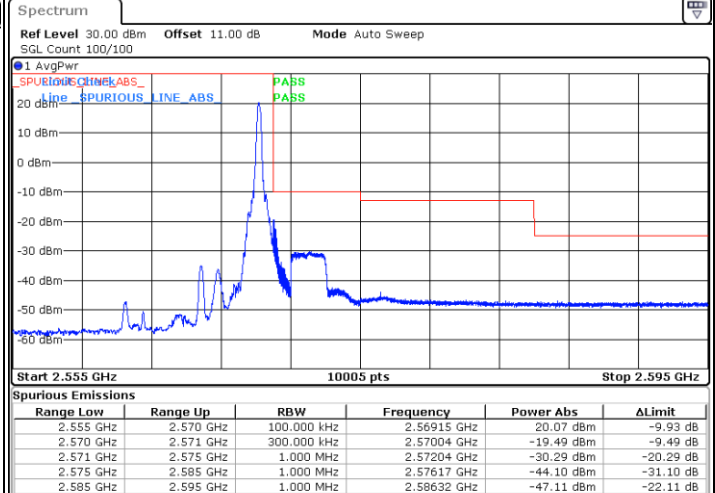
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



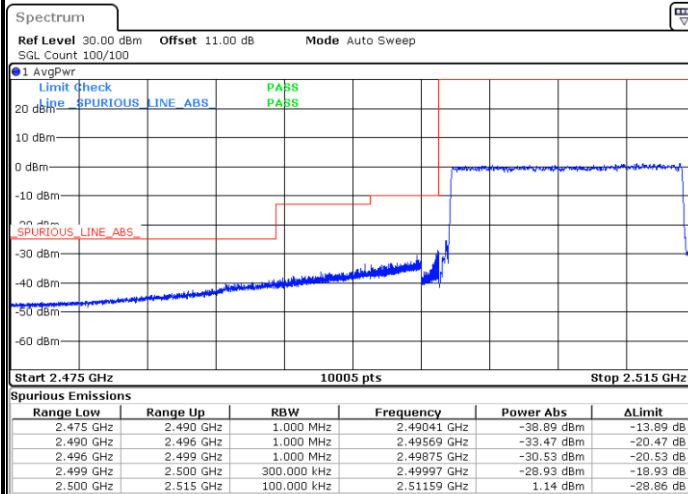
Date: 19.AUG.2022 04:52:32

Highest Band Edge / 1 RB



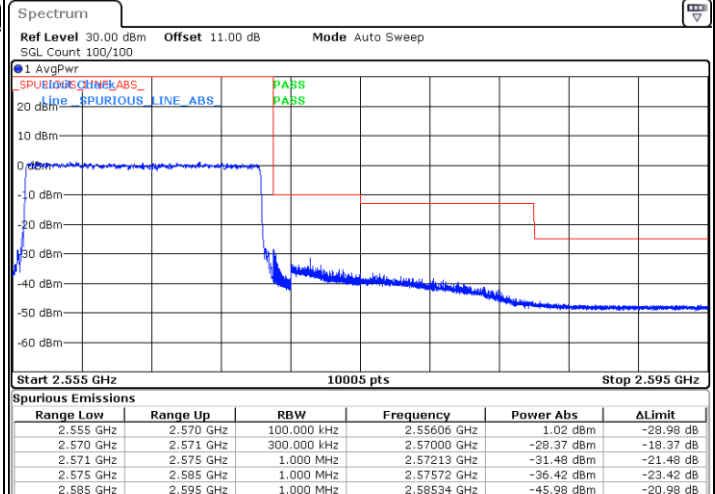
Date: 19.AUG.2022 04:55:24

Lowest Band Edge / Full RB



Date: 19.AUG.2022 04:53:37

Highest Band Edge / Full RB

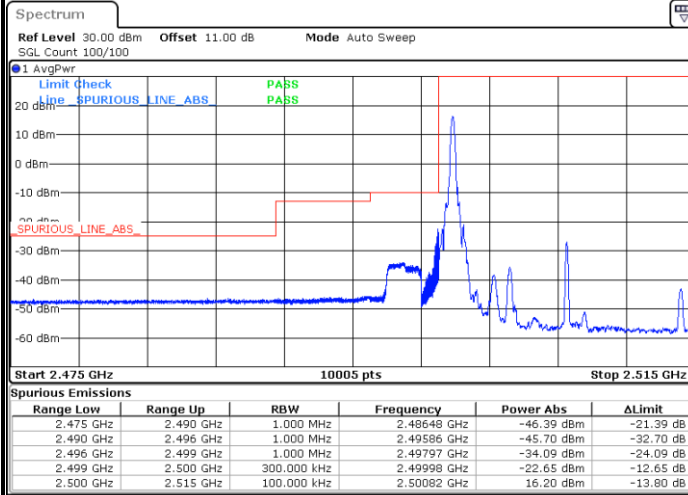


Date: 19.AUG.2022 04:56:28



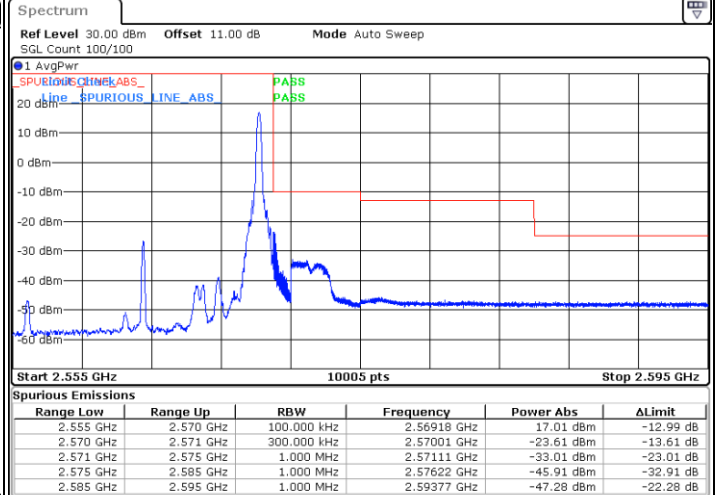
LTE Band 7 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



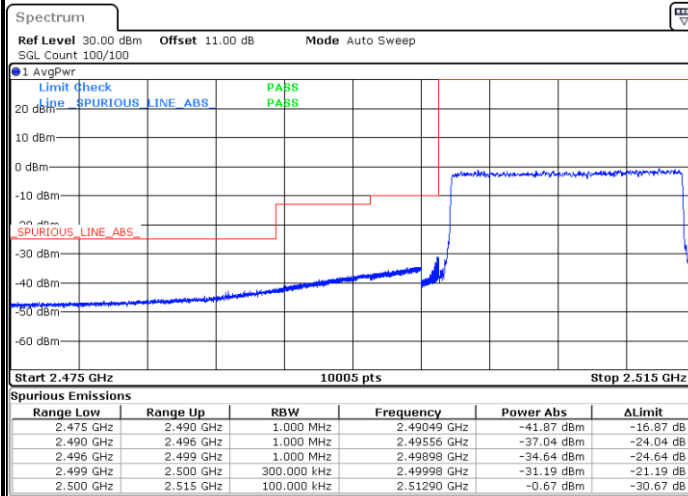
Date: 19.AUG.2022 09:33:03

Highest Band Edge / 1 RB



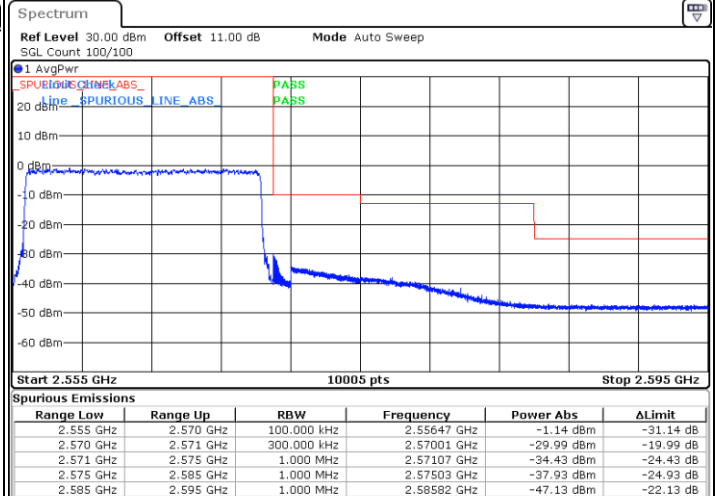
Date: 19.AUG.2022 09:35:57

Lowest Band Edge / Full RB



Date: 19.AUG.2022 09:34:10

Highest Band Edge / Full RB

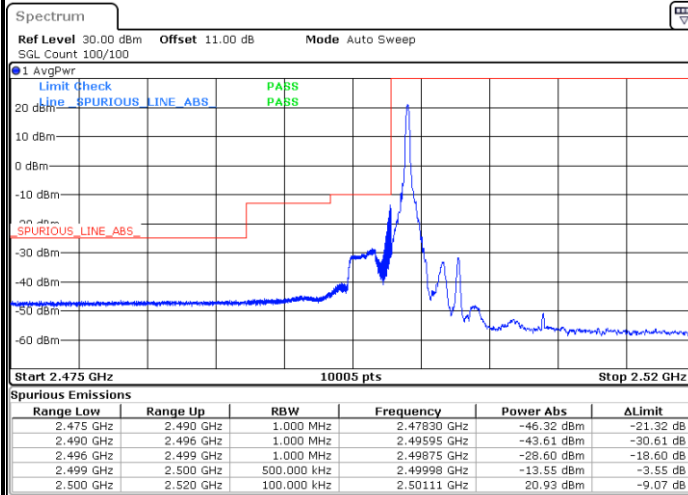


Date: 19.AUG.2022 09:37:04

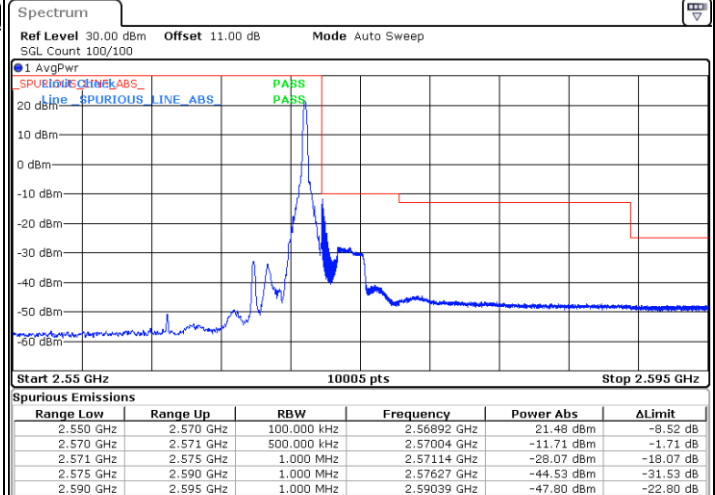


LTE Band 7 / 20MHz / QPSK

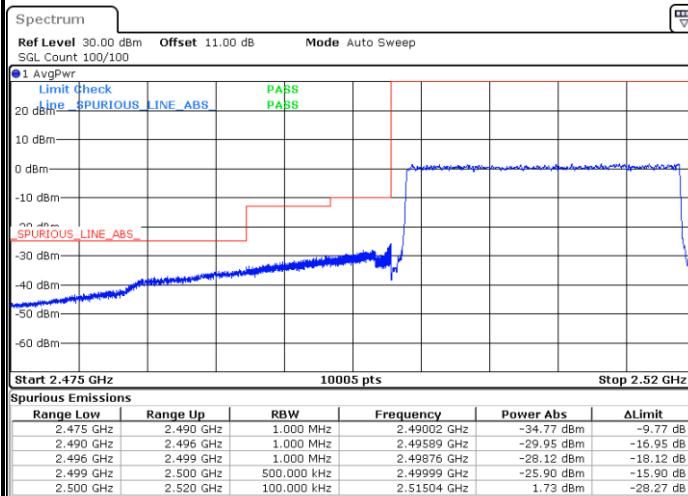
Lowest Band Edge / 1 RB



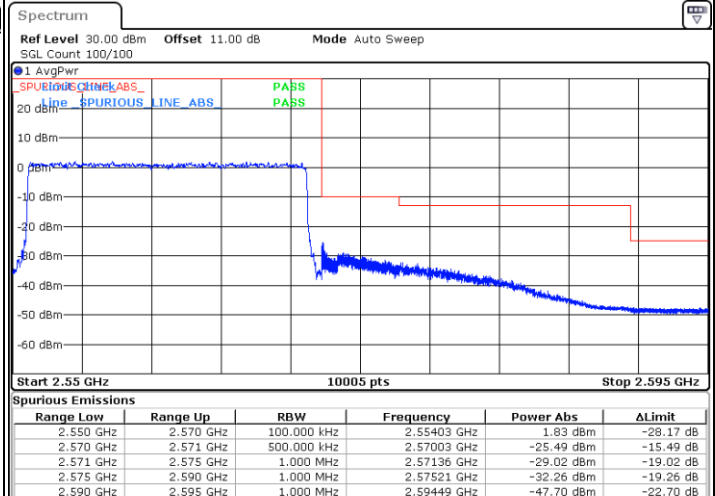
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



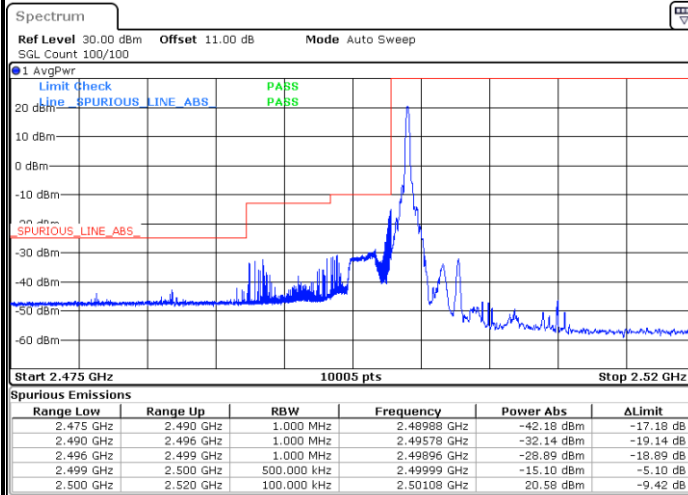
Highest Band Edge / Full RB



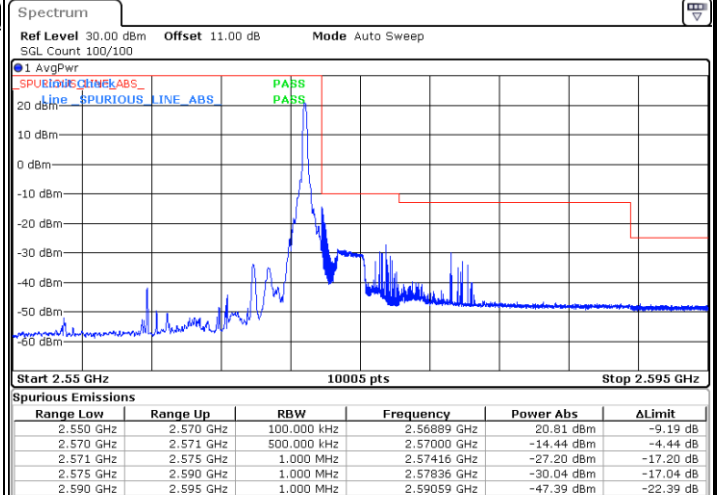


LTE Band 7 / 20MHz / 16QAM

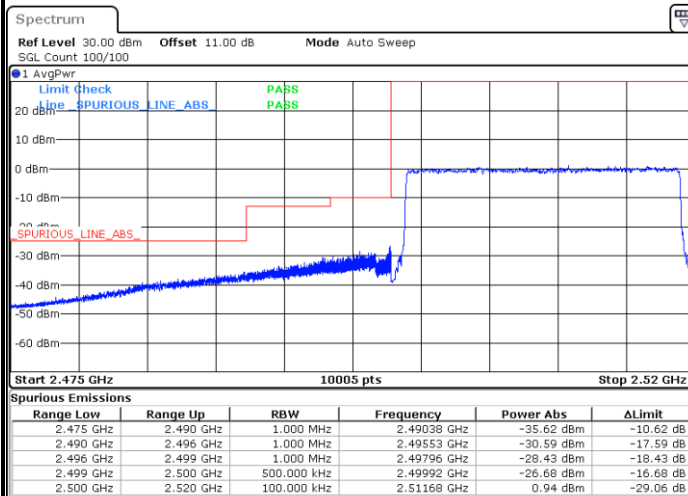
Lowest Band Edge / 1 RB



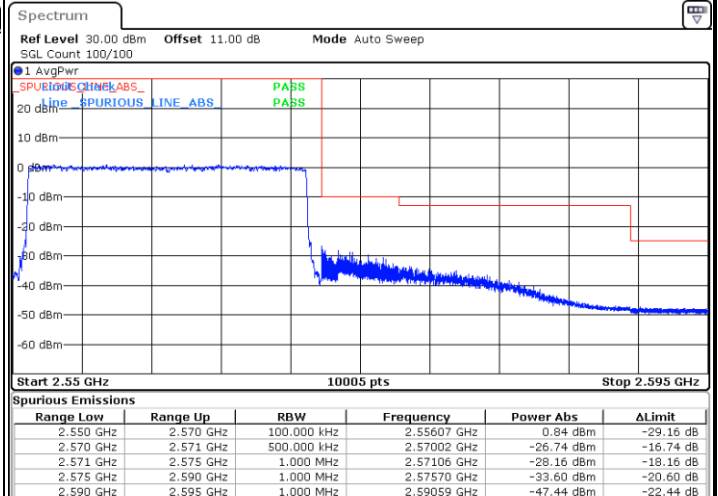
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



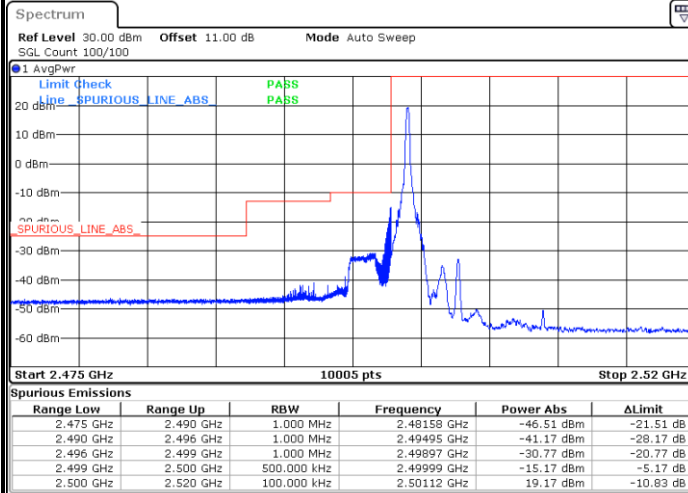
Highest Band Edge / Full RB



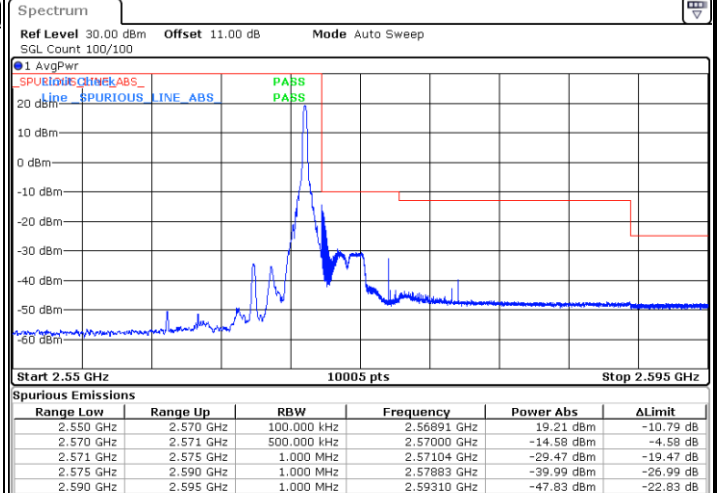


LTE Band 7 / 20MHz / 64QAM

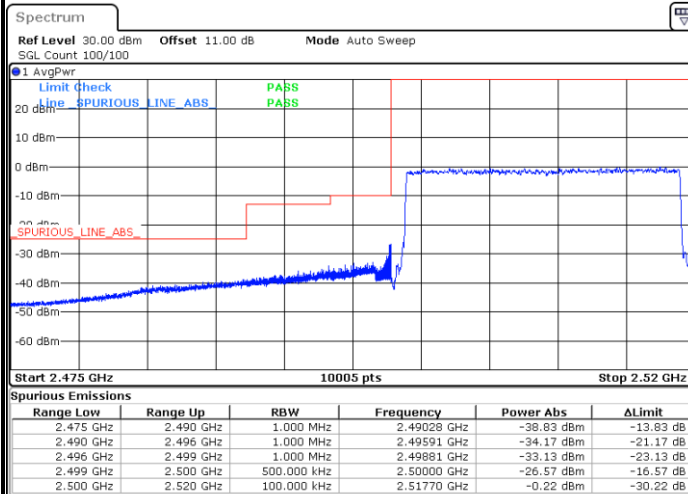
Lowest Band Edge / 1 RB



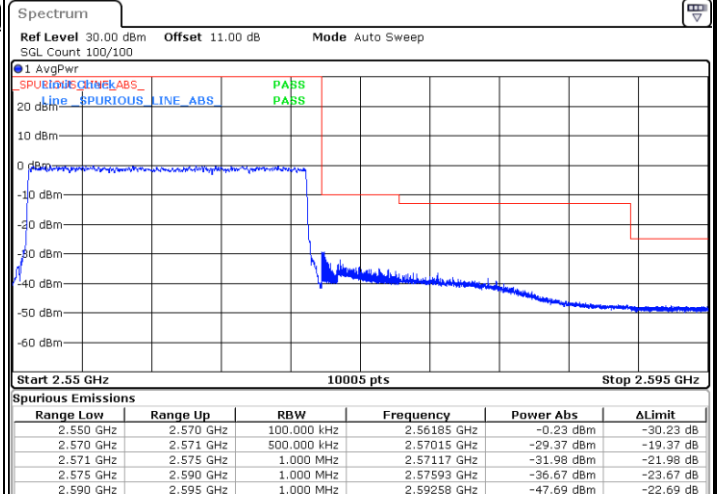
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



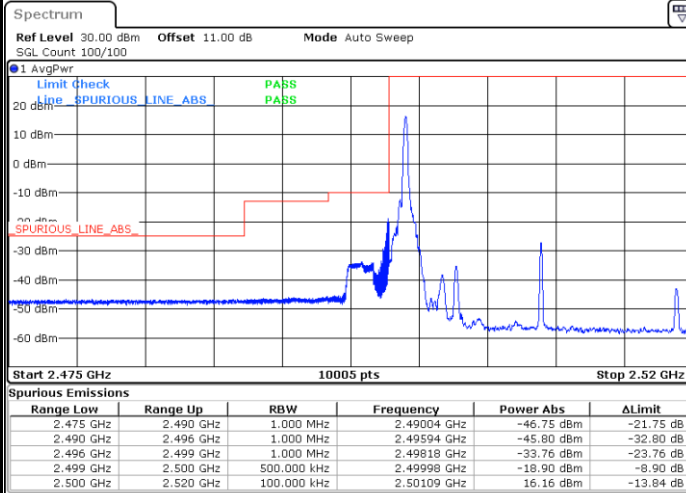
Highest Band Edge / Full RB



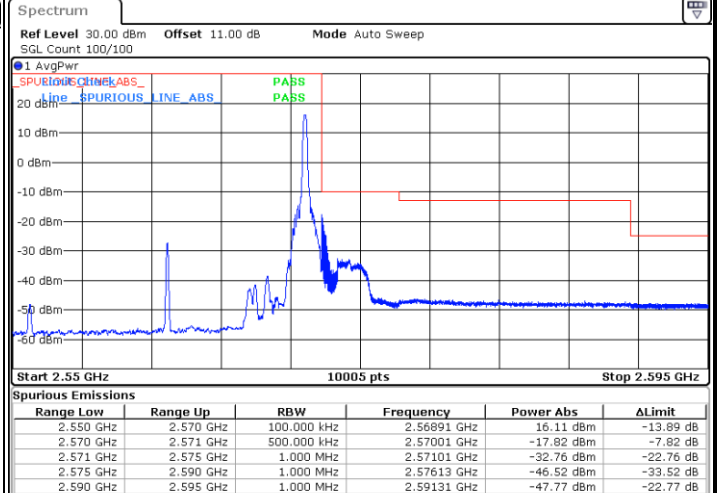


LTE Band 7 / 20MHz / 256QAM

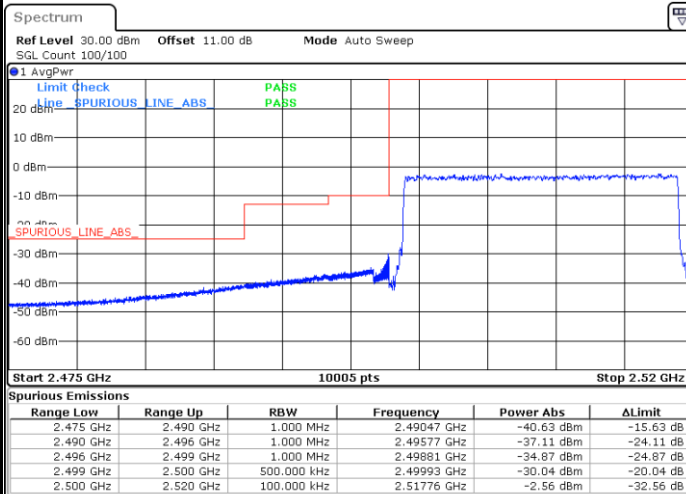
Lowest Band Edge / 1 RB



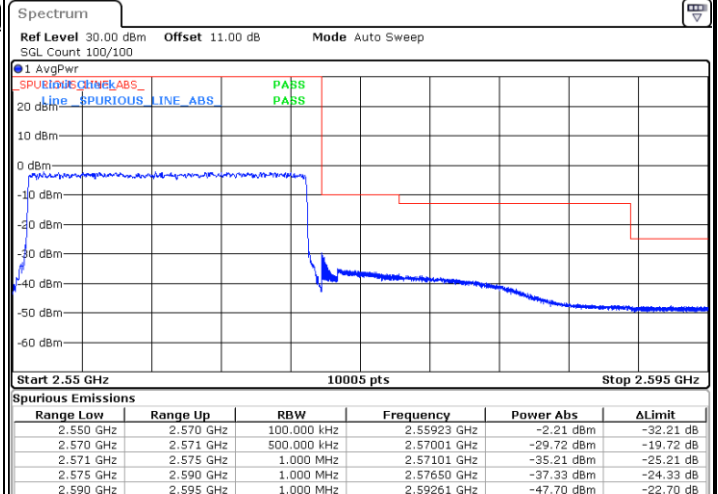
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

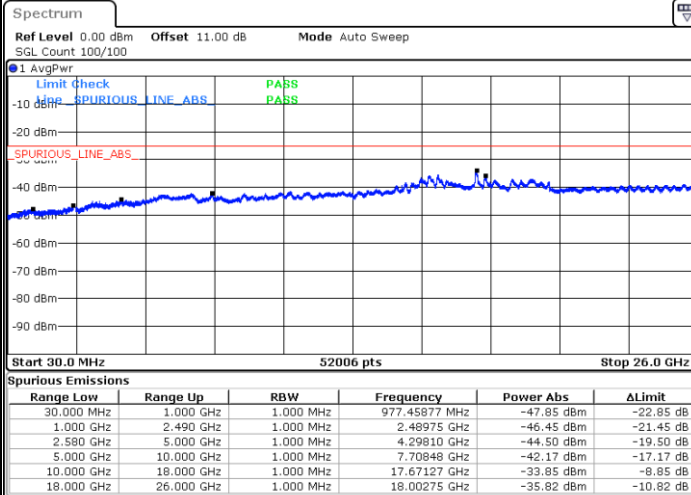




Conducted Spurious Emission

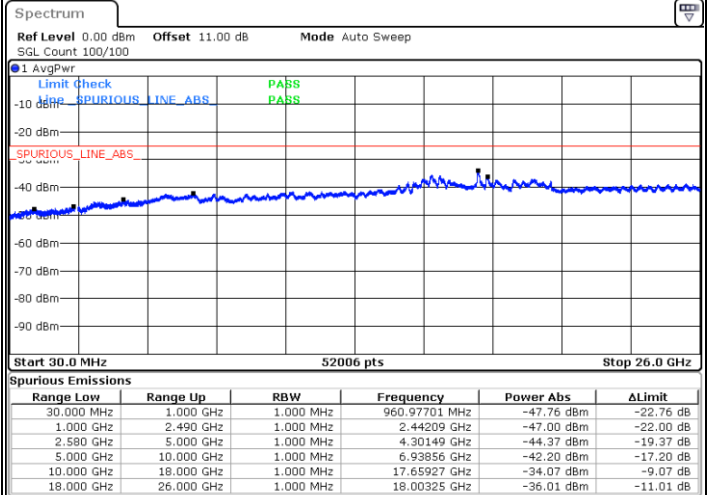
LTE Band 7 / 5MHz

Lowest Channel / QPSK



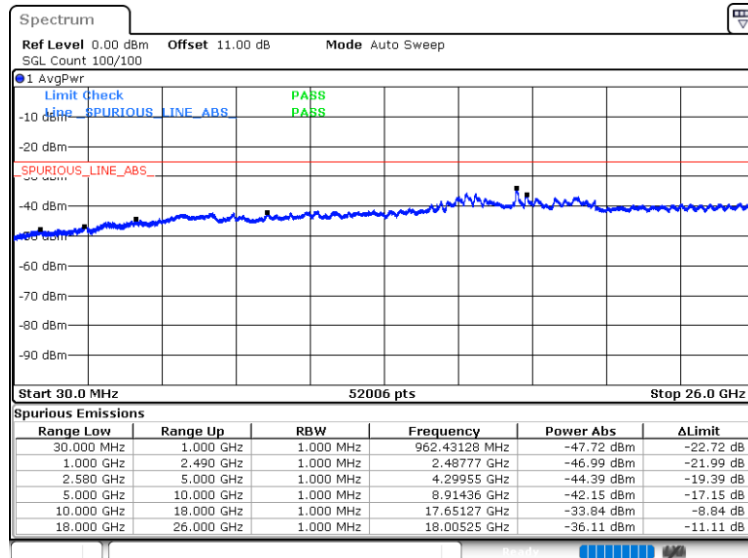
Date: 19.AUG.2022 04:03:38

Middle Channel / QPSK



Date: 19.AUG.2022 04:06:52

Highest Channel / QPSK

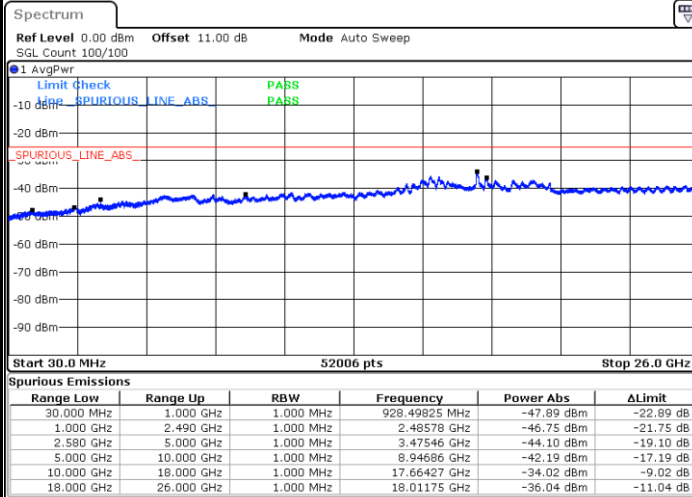


Date: 19.AUG.2022 04:12:25



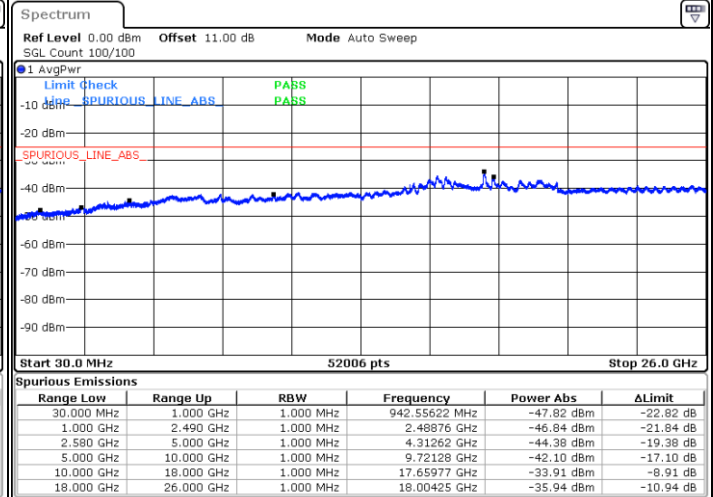
LTE Band 7 / 10MHz

Lowest Channel / QPSK



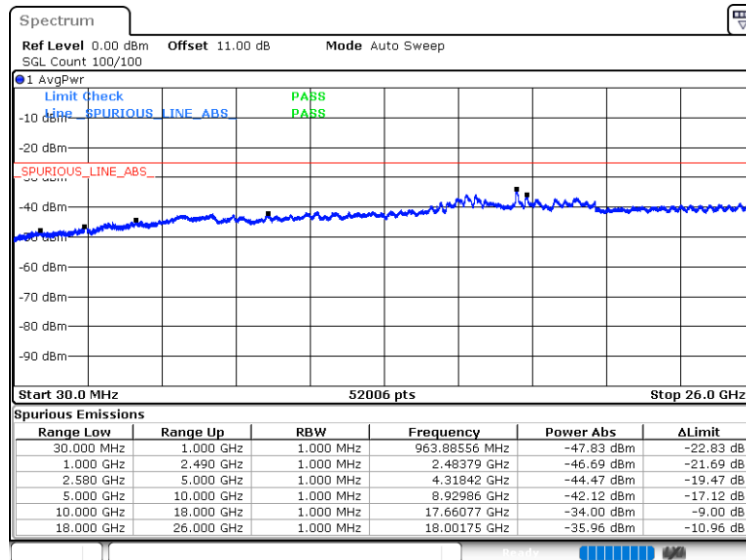
Date: 19.AUG.2022 04:23:02

Middle Channel / QPSK



Date: 19.AUG.2022 04:26:17

Highest Channel / QPSK

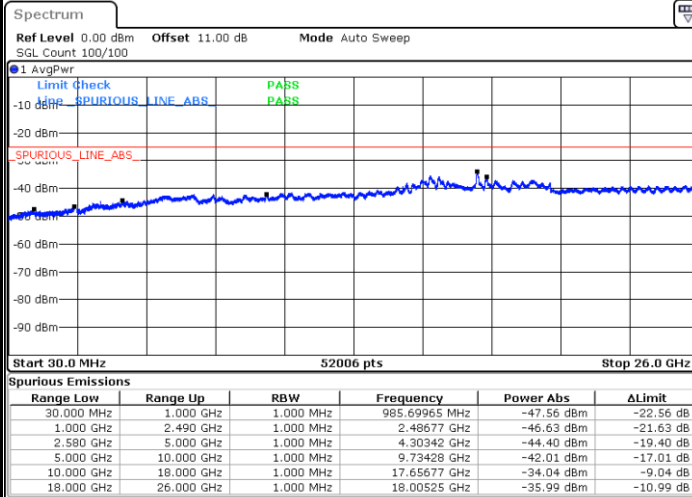


Date: 19.AUG.2022 04:31:54



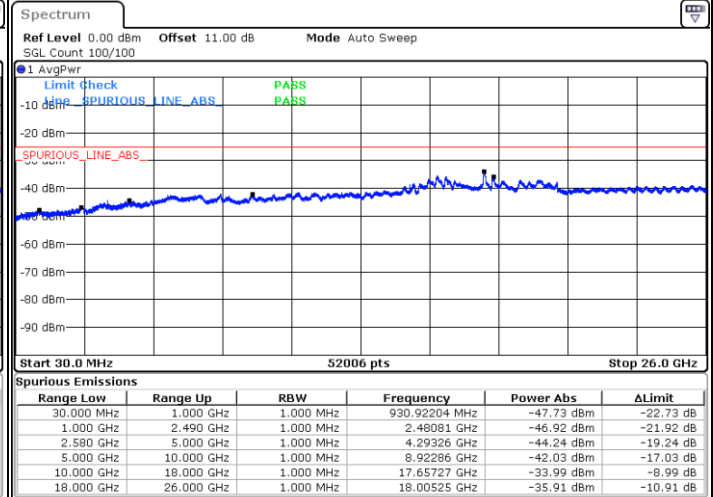
LTE Band 7 / 15MHz

Lowest Channel / QPSK



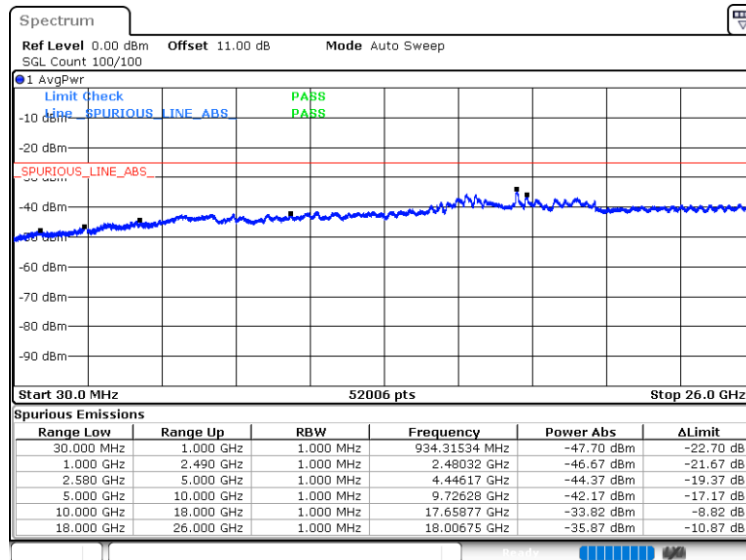
Date: 19.AUG.2022 04:42:36

Middle Channel / QPSK



Date: 19.AUG.2022 04:45:51

Highest Channel / QPSK

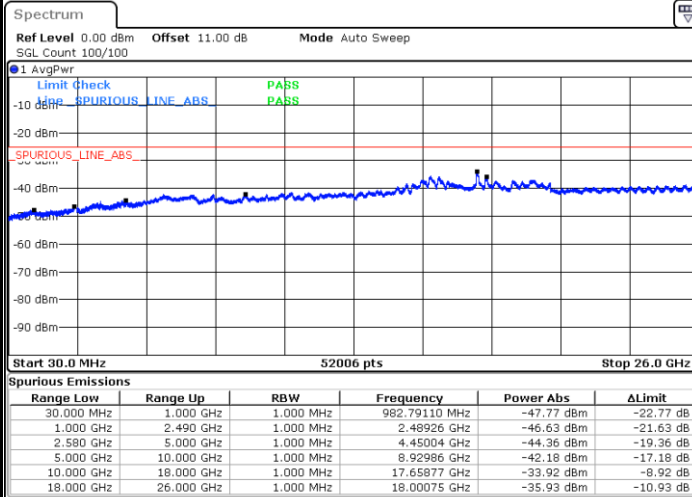


Date: 19.AUG.2022 04:51:28



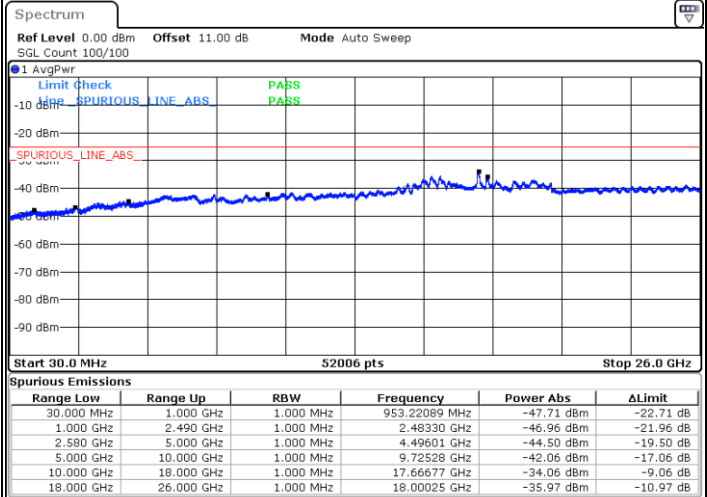
LTE Band 7 / 20MHz

Lowest Channel / QPSK



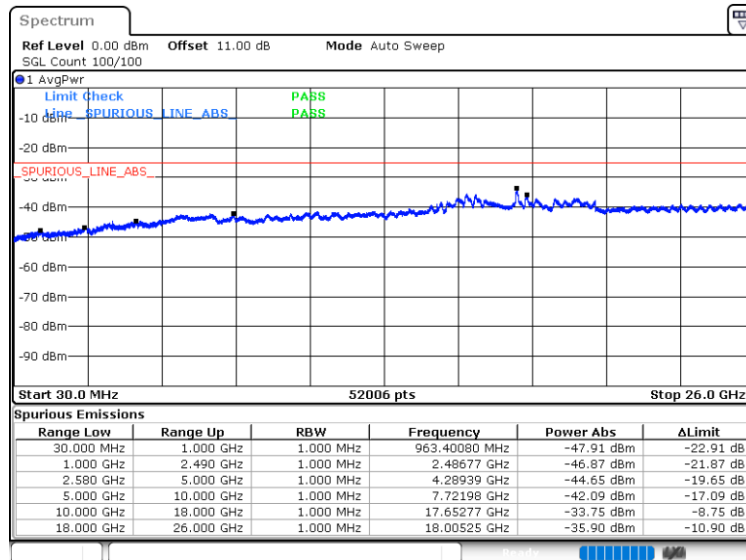
Date: 19.AUG.2022 09:06:14

Middle Channel / QPSK



Date: 19.AUG.2022 09:09:27

Highest Channel / QPSK



Date: 19.AUG.2022 09:15:00

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	0.0022	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

1. Normal Voltage = 3.30 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.63 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7C

26dB Bandwidth

Mode	LTE Band 7C : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	30.27	25.23	30.63	34.83
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	29.97	34.90	40.04	

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.97	25.33	30.39	34.90
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	34.76	39.72	

Mode	LTE Band 7C : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.91	25.28	30.81	35.04
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.21	35.11	39.80	

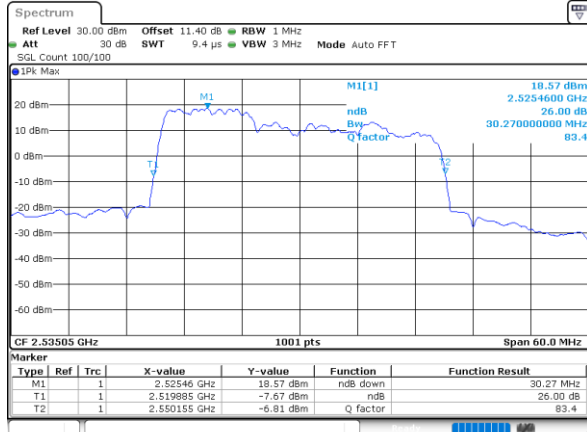
Mode	LTE Band 7C : 26dB BW(MHz)			
256QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.79	25.18	30.51	34.90
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	34.97	39.56	



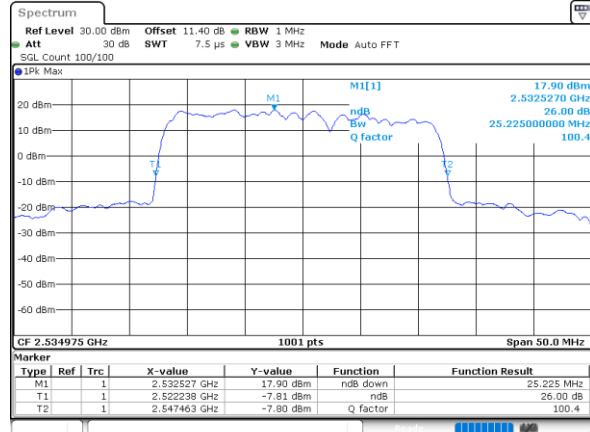
LTE Band 7C

QPSK

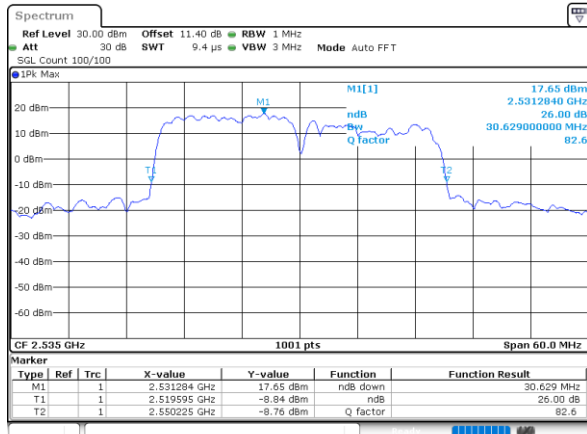
Middle Channel / 10MHz+20MHz



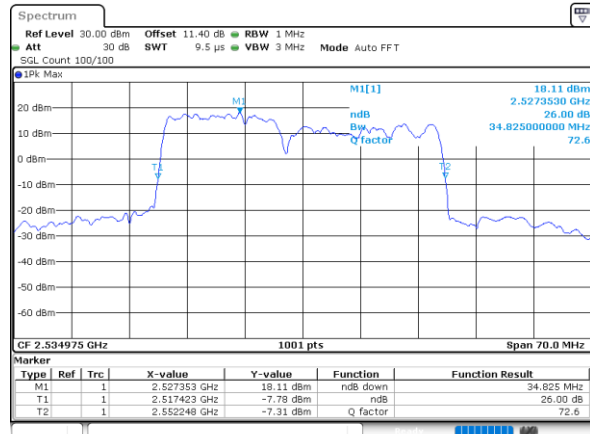
Middle Channel / 15MHz+10MHz



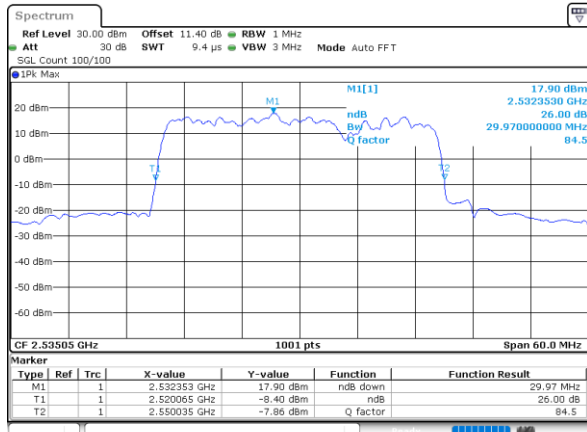
Middle Channel / 15MHz+15MHz



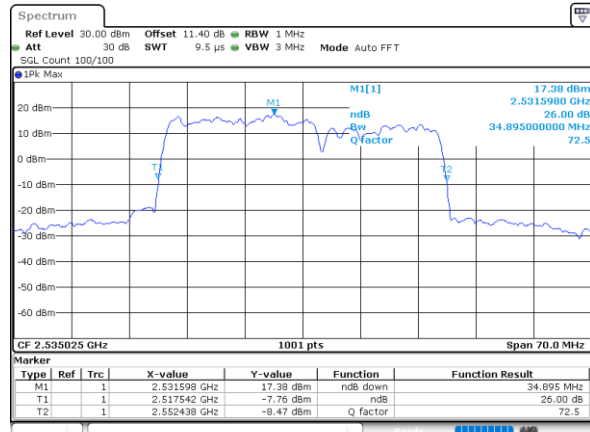
Middle Channel / 15MHz+20MHz



Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



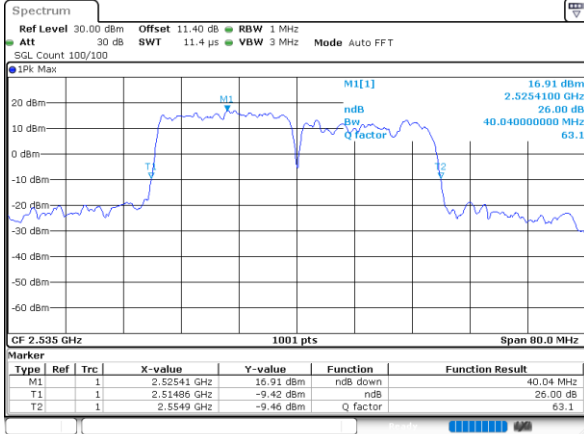


LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A



Date: 25, AUG, 2022 04:21:24