

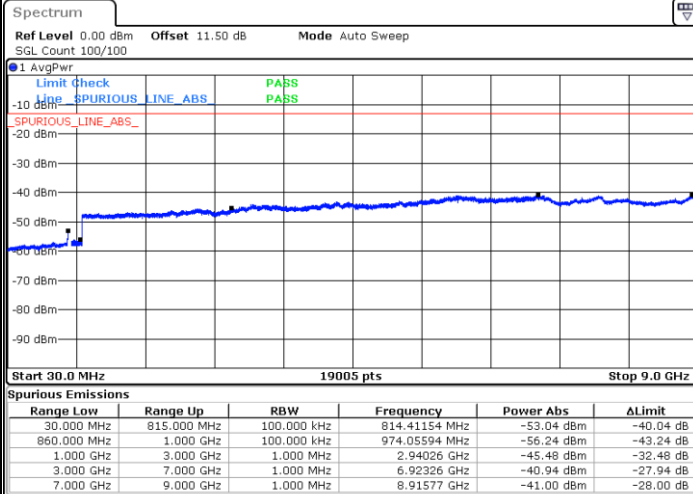


LTE Band 5B / 10MHz+10MHz

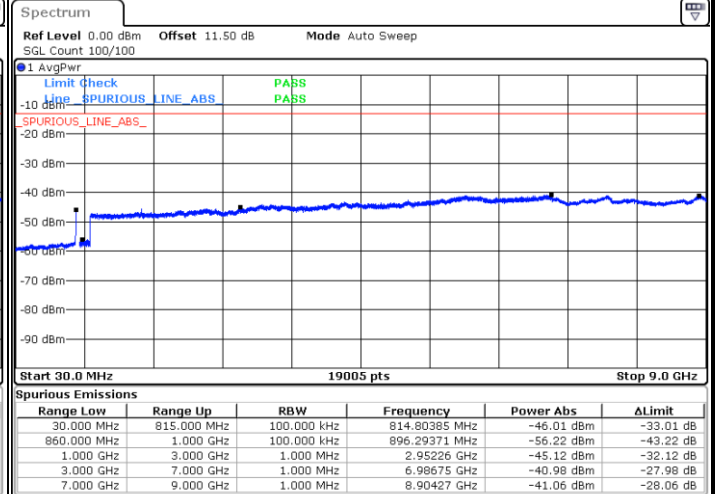
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0



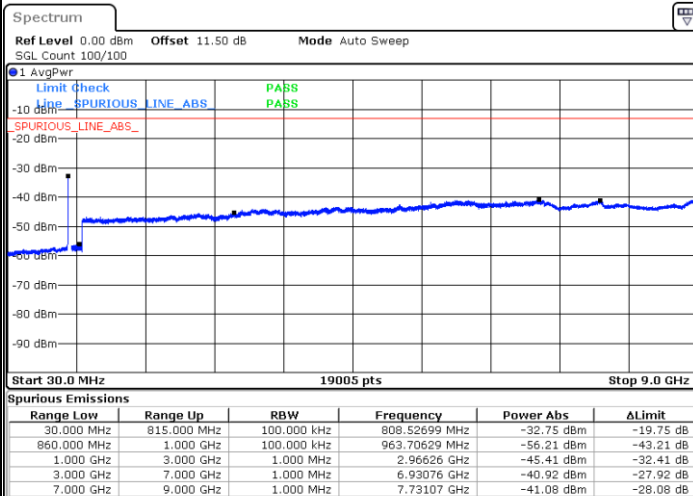
Date: 27.MAR.2024 22:56:15



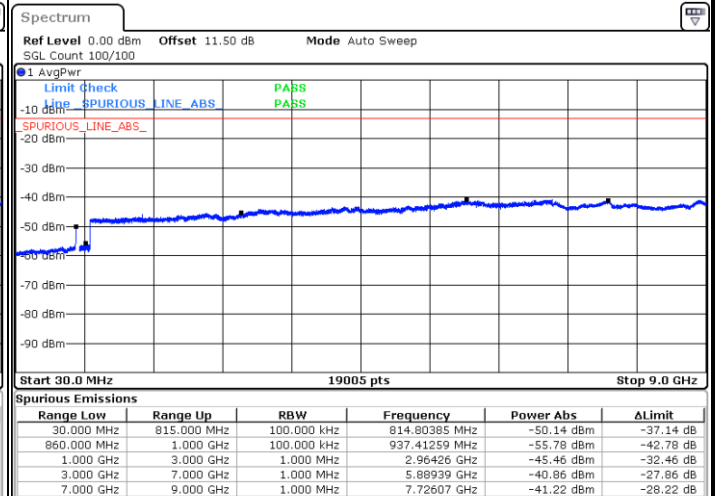
Date: 27.MAR.2024 22:55:02

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



Date: 27.MAR.2024 23:00:02



Date: 27.MAR.2024 23:01:15

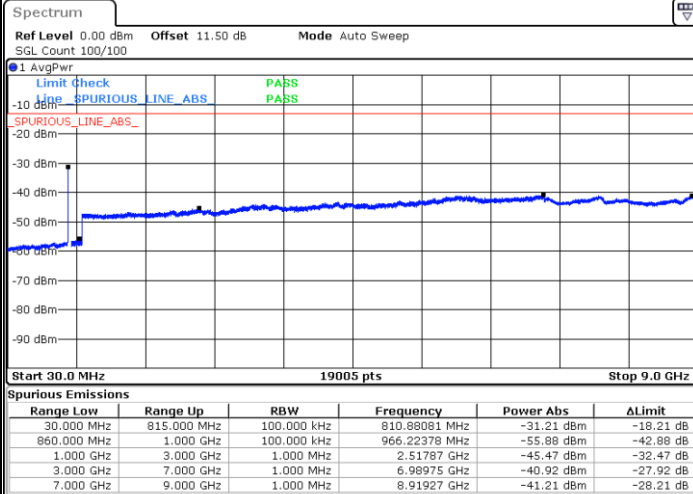


LTE Band 5B / 10MHz+10MHz

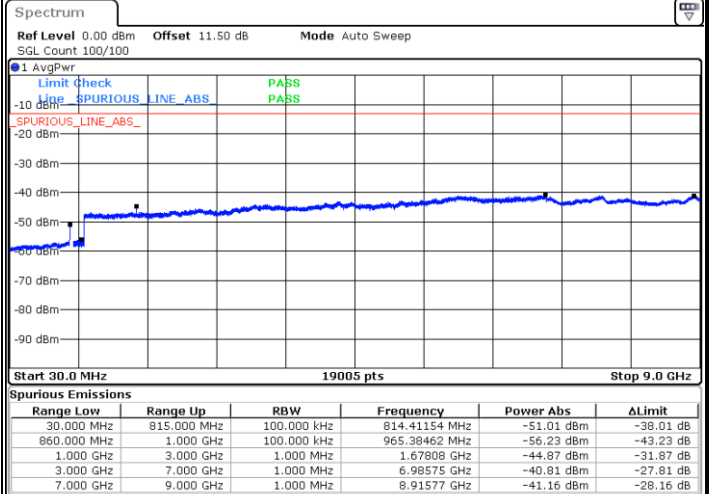
QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Date: 27.MAR.2024 22:45:23



Date: 27.MAR.2024 22:44:10

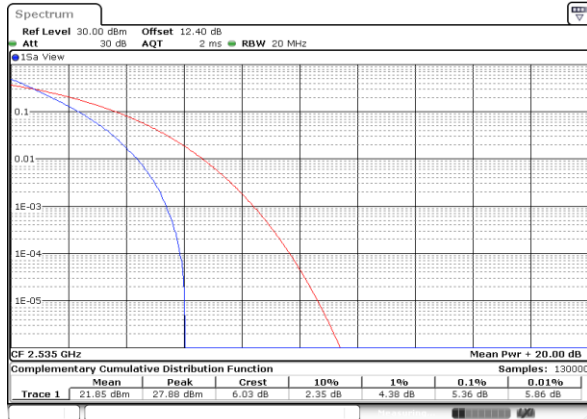
**LTE Band 7****Peak-to-Average Ratio**

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.36	6.23	6.46	6.75	PASS



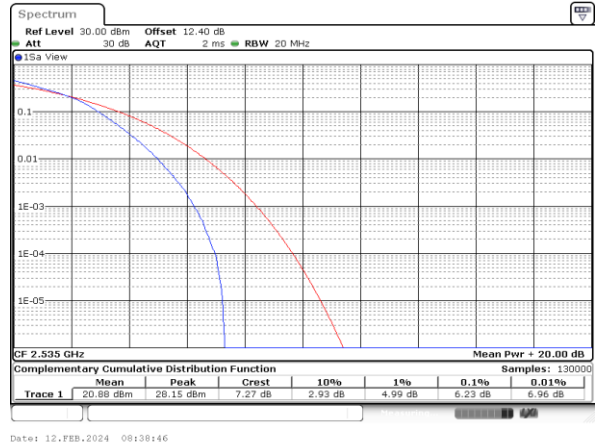
LTE Band 7 / 20MHz / QPSK

Middle Channel / Full RB



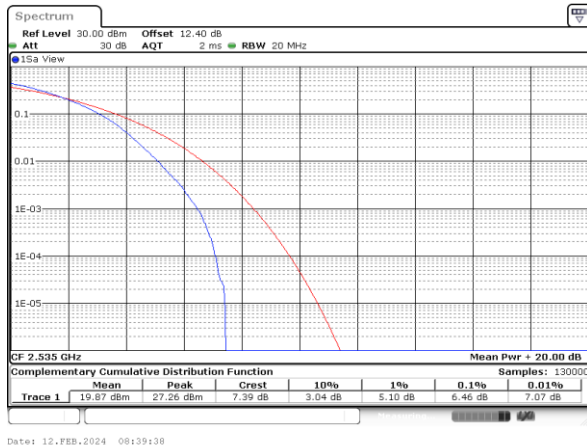
LTE Band 7 / 20MHz / 16QAM

Middle Channel / Full RB



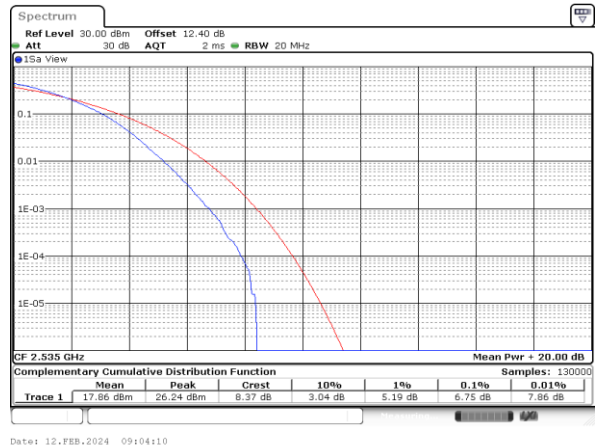
LTE Band 7 / 20MHz / 64QAM

Middle Channel / Full RB



LTE Band 7 / 20MHz / 256QAM

Middle Channel / Full RB



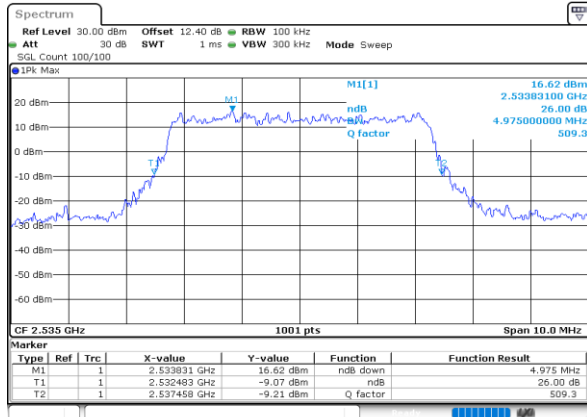
**26dB Bandwidth**

Mode	LTE Band 7 : 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	-	-	-	-	4.97	5.04	9.92	9.99	14.53	14.23	19.26	19.02
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	5.03	5.07	9.84	9.84	14.68	14.65	19.02	18.86



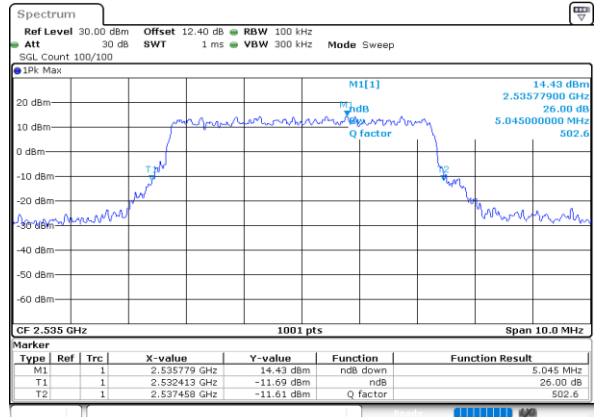
LTE Band 7

Middle Channel / 5MHz / QPSK



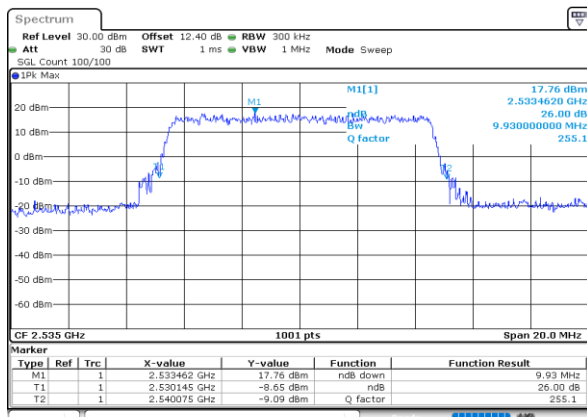
Date: 12.FEB.2024 07:32:46

Middle Channel / 5MHz / 16QAM



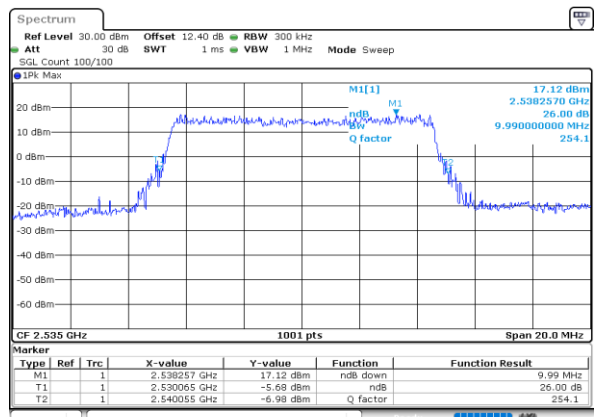
Date: 12.FEB.2024 07:13:11

Middle Channel / 10MHz / QPSK



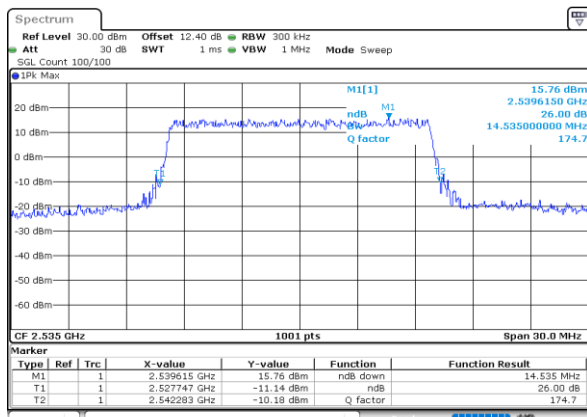
Date: 12.FEB.2024 07:58:54

Middle Channel / 10MHz / 16QAM



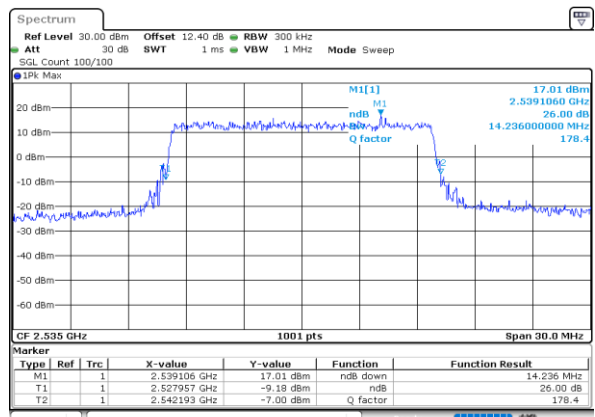
Date: 12.FEB.2024 07:15:18

Middle Channel / 15MHz / QPSK



Date: 12.FEB.2024 06:13:37

Middle Channel / 15MHz / 16QAM

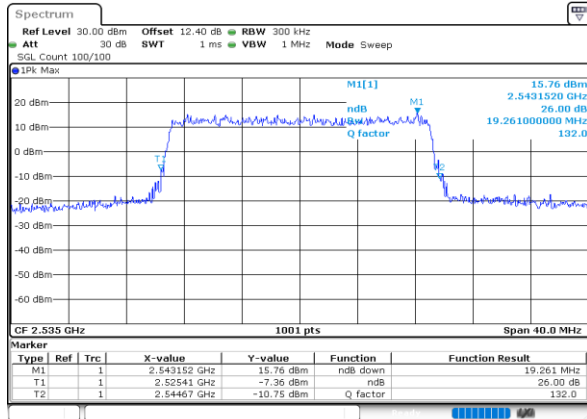


Date: 12.FEB.2024 06:14:02

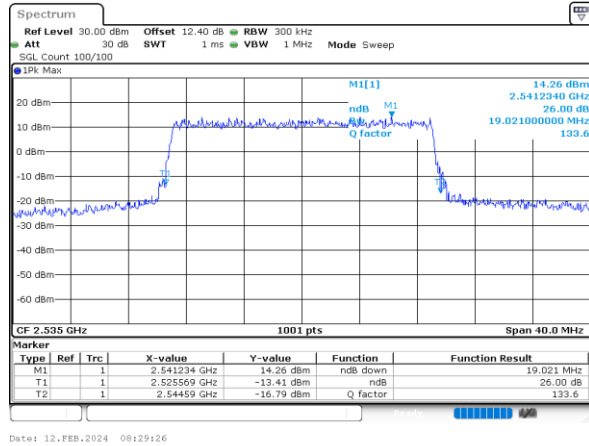


LTE Band 7

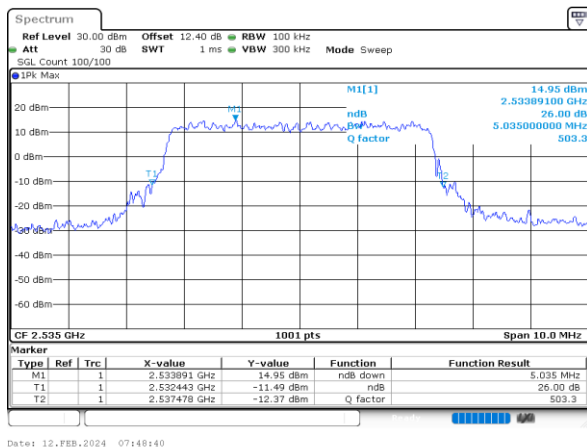
Middle Channel / 20MHz / QPSK



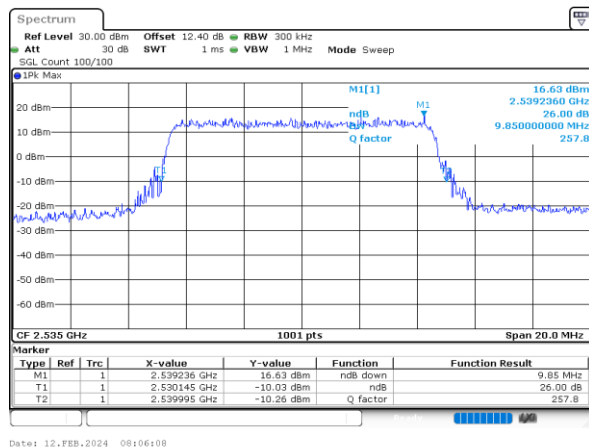
Middle Channel / 20MHz / 16QAM



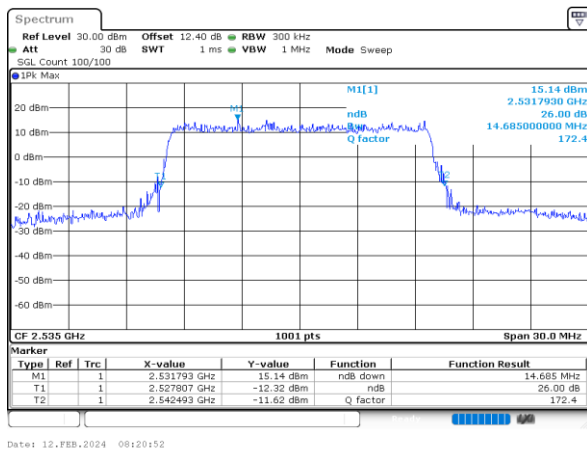
Middle Channel / 5MHz / 64QAM



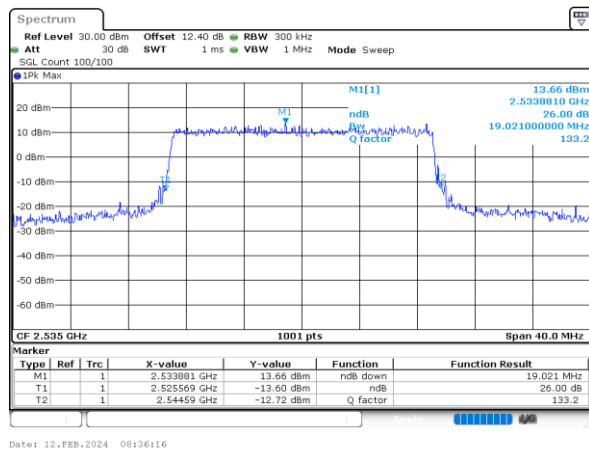
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



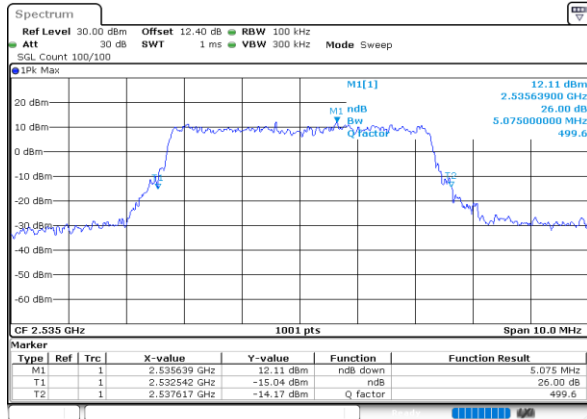
Middle Channel / 20MHz / 64QAM





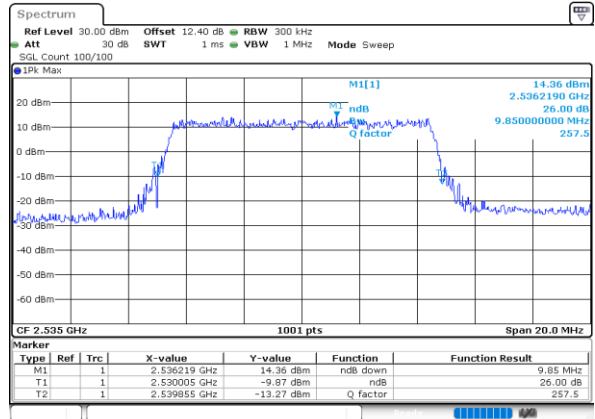
LTE Band 7

Middle Channel / 5MHz / 256QAM



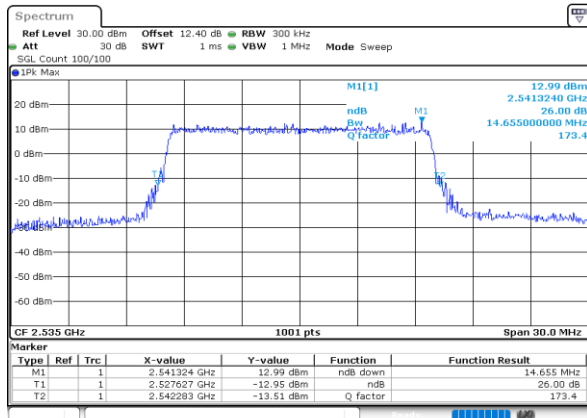
Date: 12.FEB.2024 08:44:26

Middle Channel / 10MHz / 256QAM



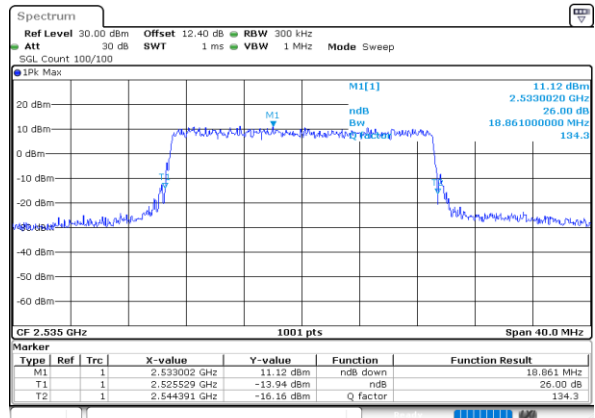
Date: 12.FEB.2024 08:51:18

Middle Channel / 15MHz / 256QAM



Date: 12.FEB.2024 08:56:06

Middle Channel / 20MHz / 256QAM



Date: 12.FEB.2024 09:01:40

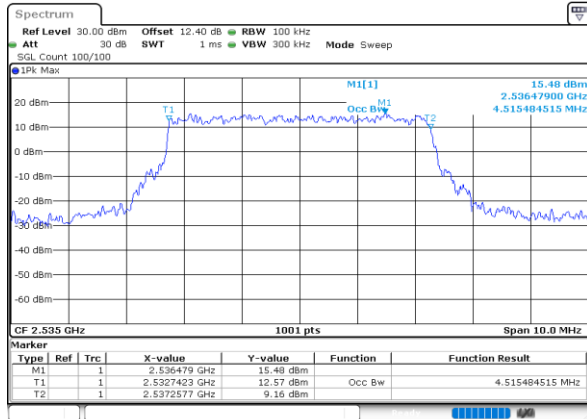
**Occupied Bandwidth**

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	-	-	-	-	4.51	4.52	9.09	9.09	13.48	13.48	17.98	17.94
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	-	-	-	-	4.51	4.51	9.09	9.07	13.48	13.48	17.90	17.94

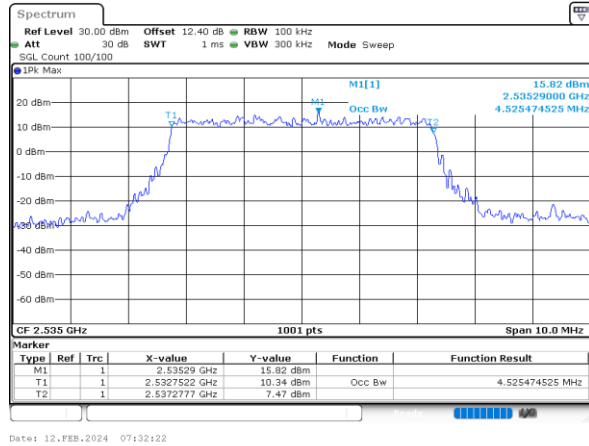


LTE Band 7

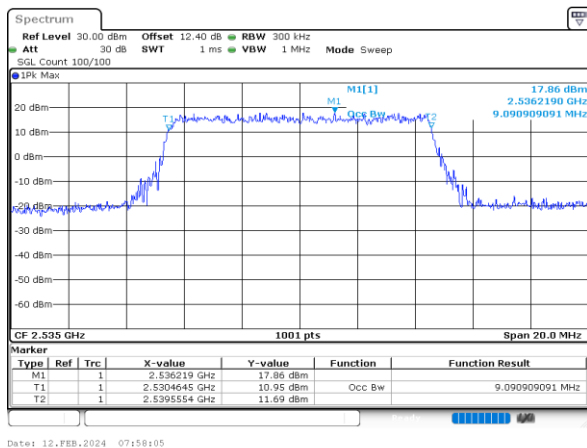
Middle Channel / 5MHz / QPSK



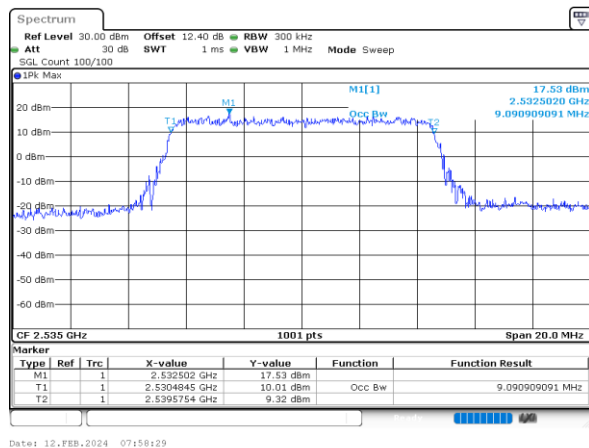
Middle Channel / 5MHz / 16QAM



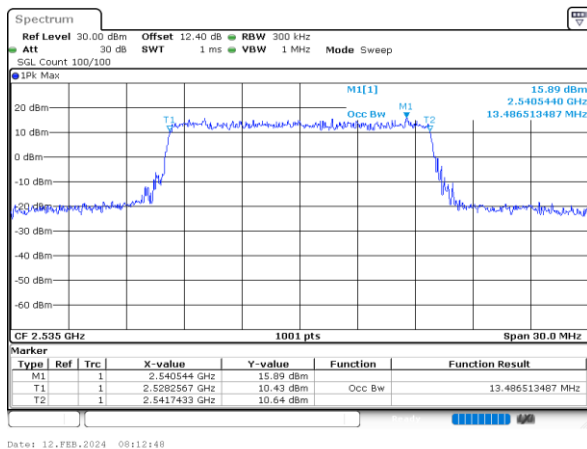
Middle Channel / 10MHz / QPSK



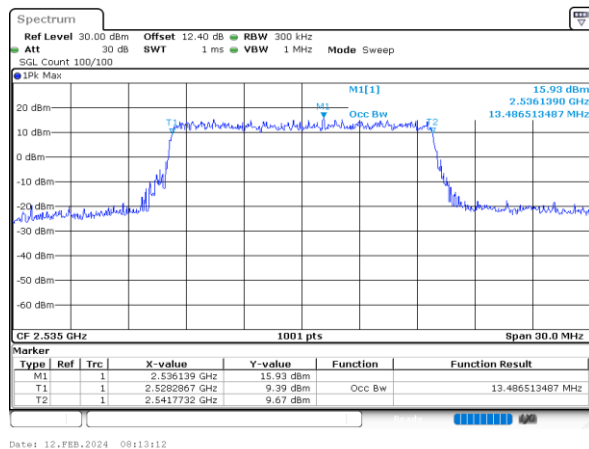
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



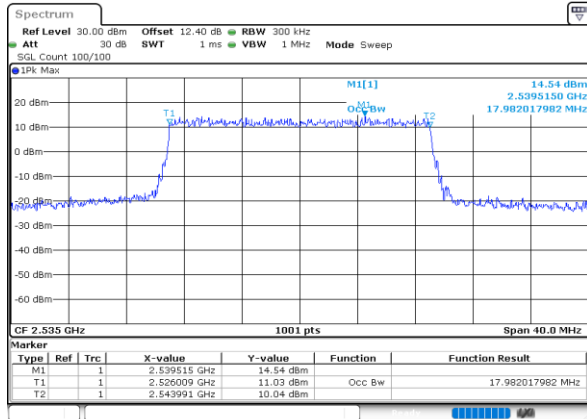
Middle Channel / 15MHz / 16QAM



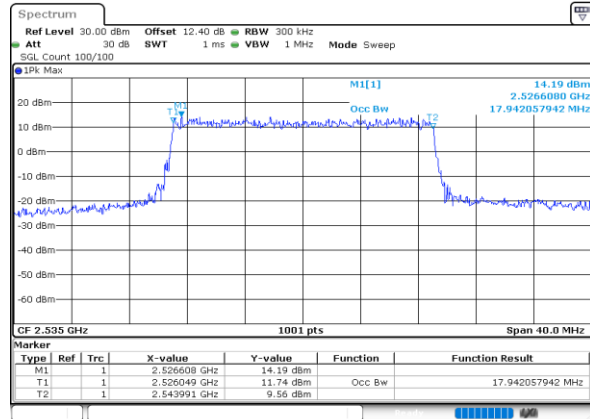


LTE Band 7

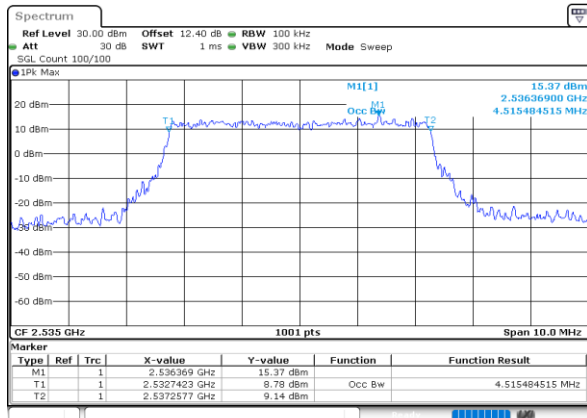
Middle Channel / 20MHz / QPSK



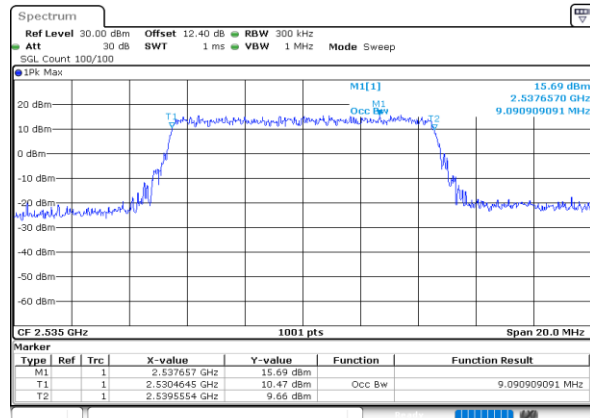
Middle Channel / 20MHz / 16QAM



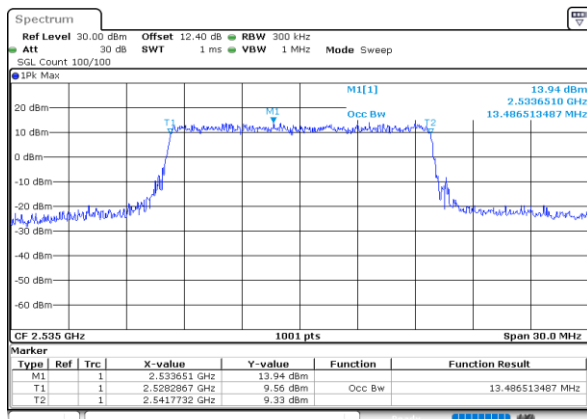
Middle Channel / 5MHz / 64QAM



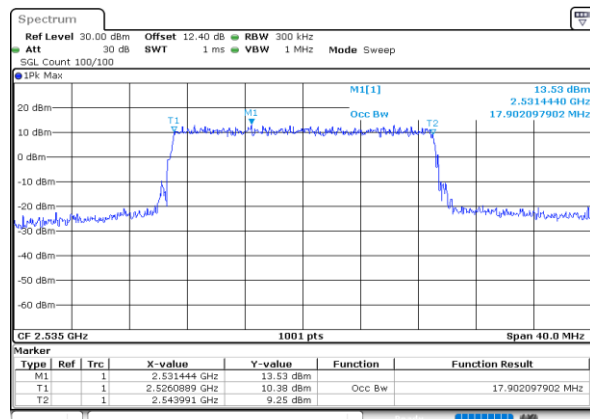
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



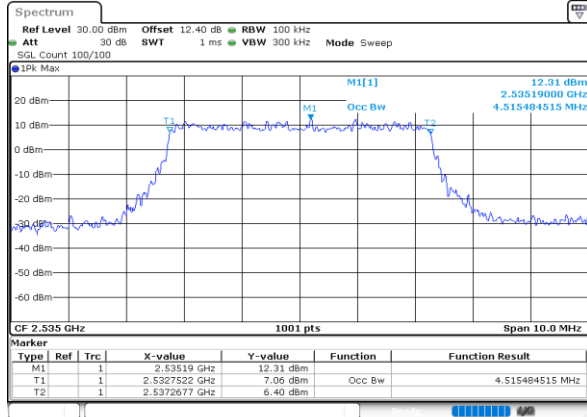
Middle Channel / 20MHz / 64QAM



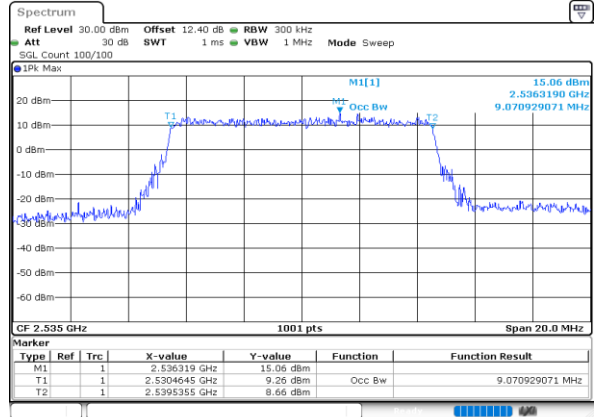


LTE Band 7

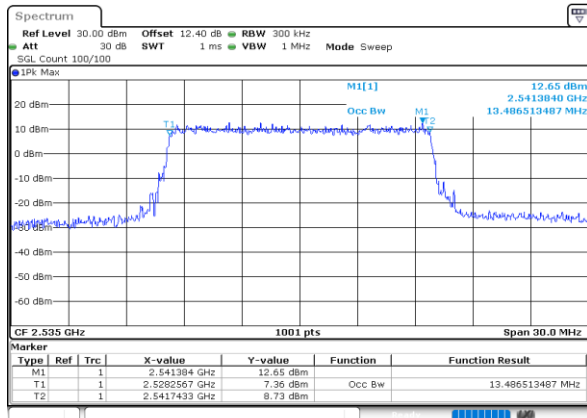
Middle Channel / 5MHz / 256QAM



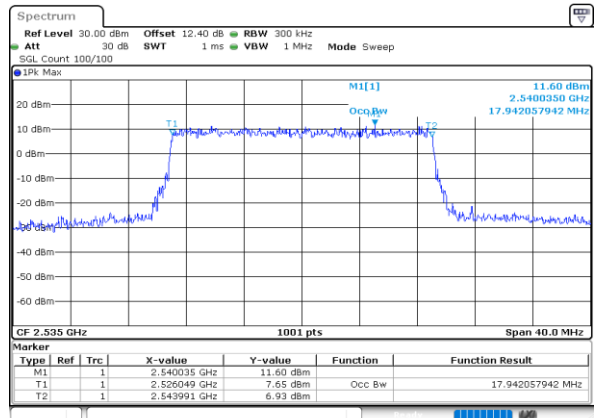
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM

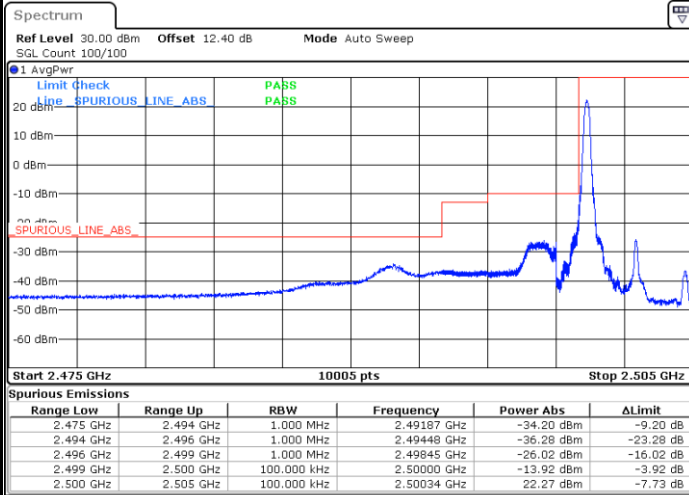




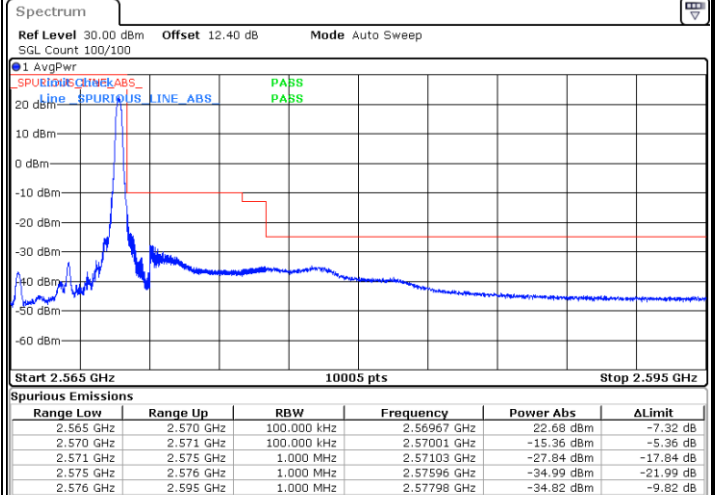
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

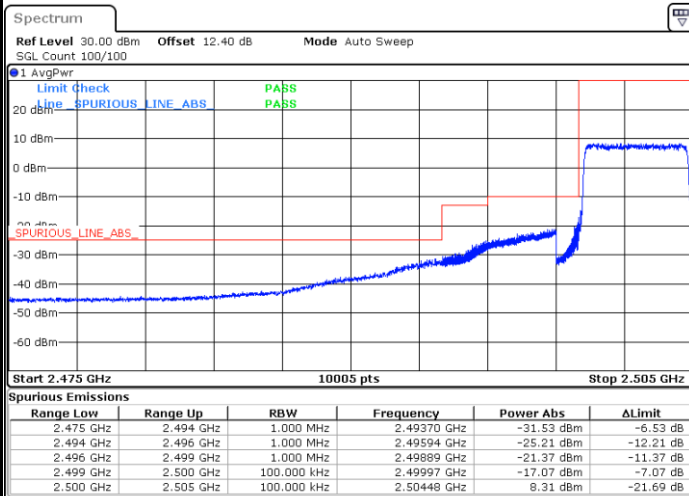
Lowest Band Edge / 1 RB



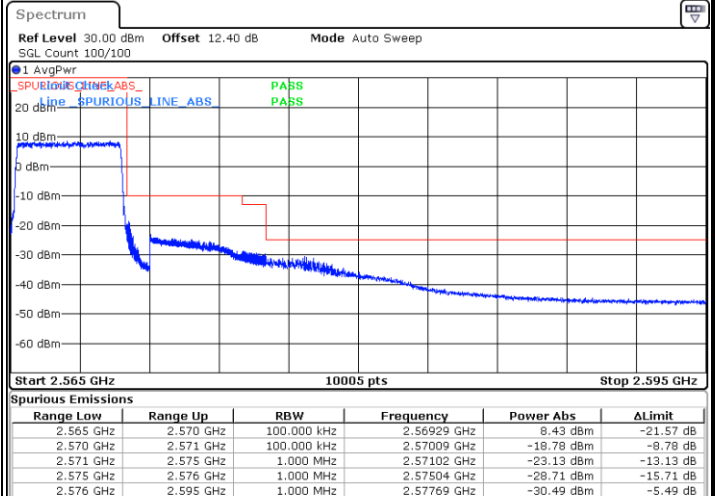
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



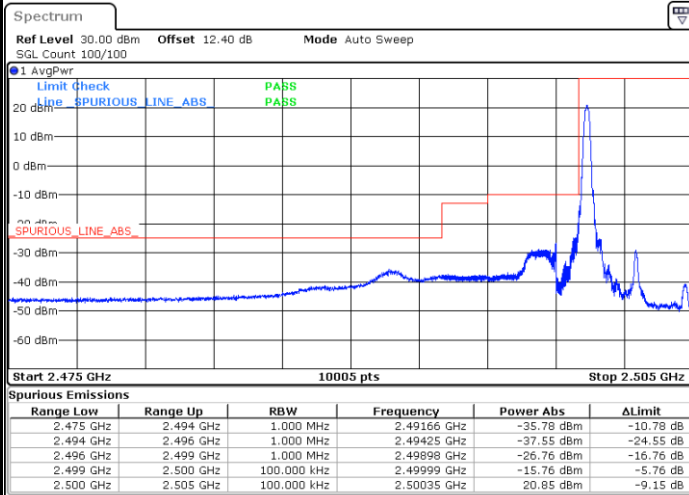
Highest Band Edge / Full RB



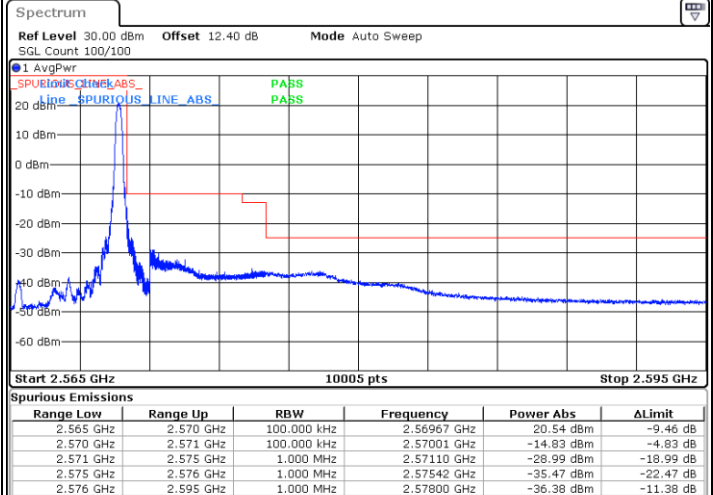


LTE Band 7 / 5MHz / 16QAM

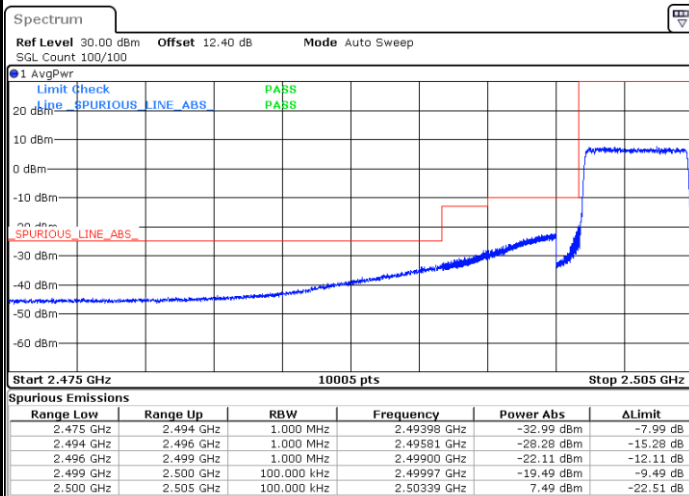
Lowest Band Edge / 1RB



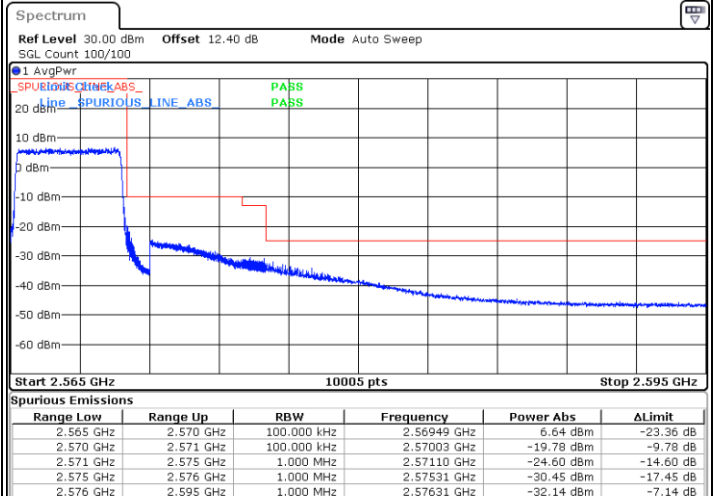
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



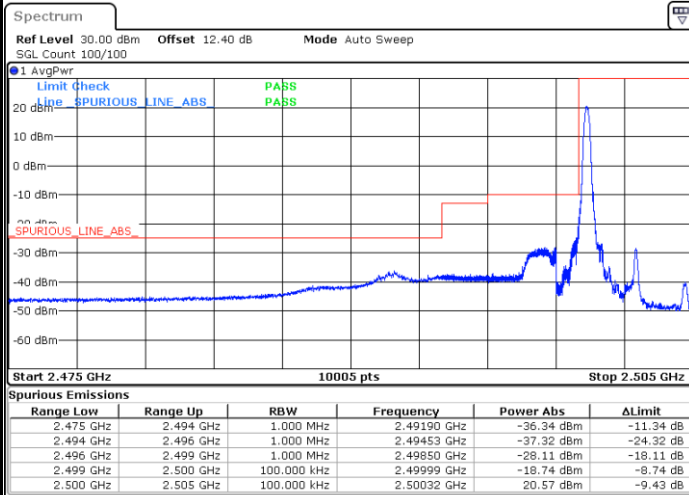
Highest Band Edge / Full RB



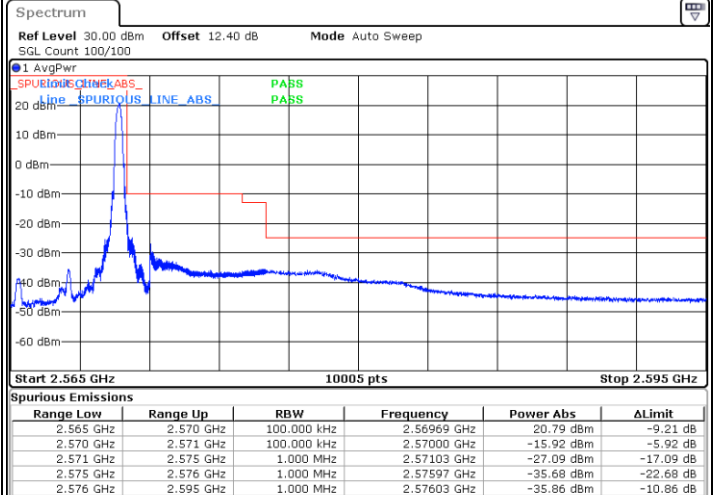


LTE Band 7 / 5MHz / 64QAM

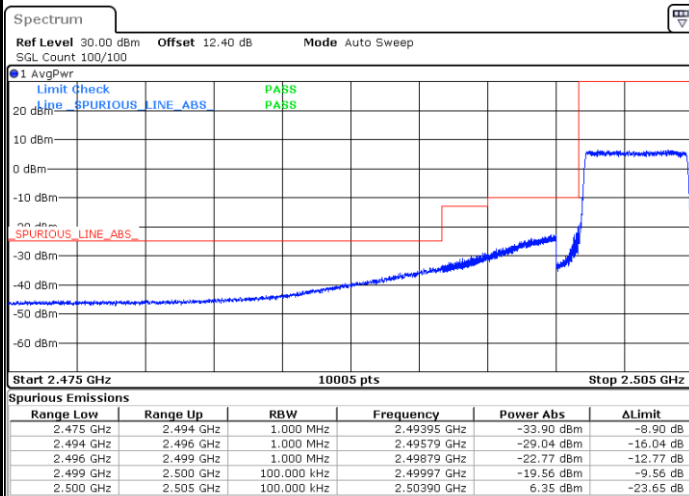
Lowest Band Edge / 1RB



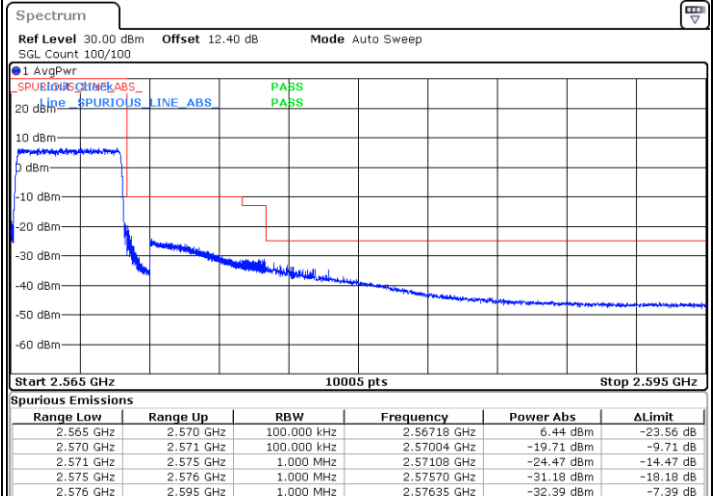
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



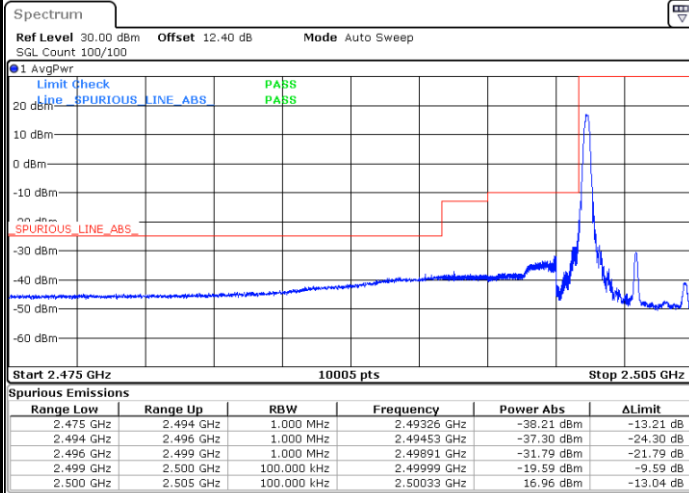
Highest Band Edge / Full RB





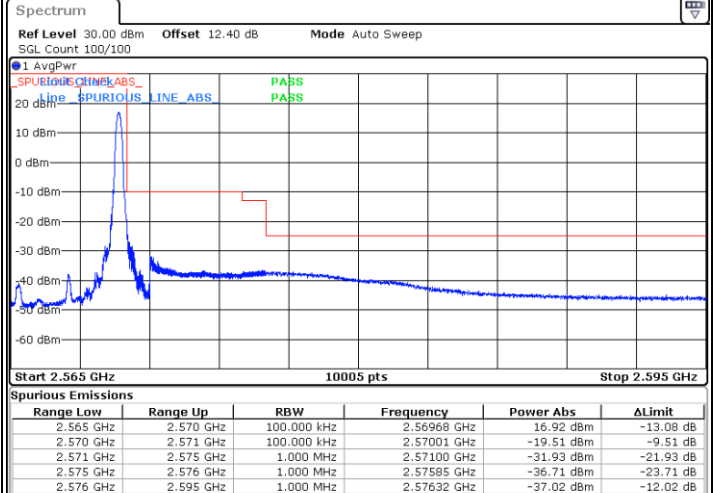
LTE Band 7 / 5MHz / 256QAM

Lowest Band Edge / 1RB



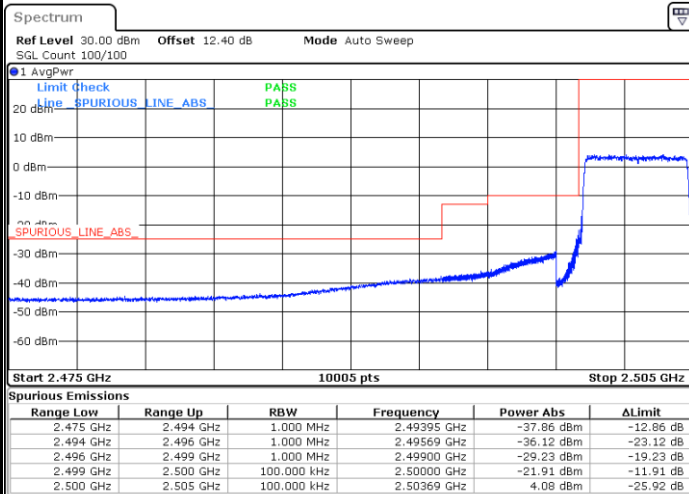
Date: 14.FEB.2024 18:11:13

Highest Band Edge / 1 RB



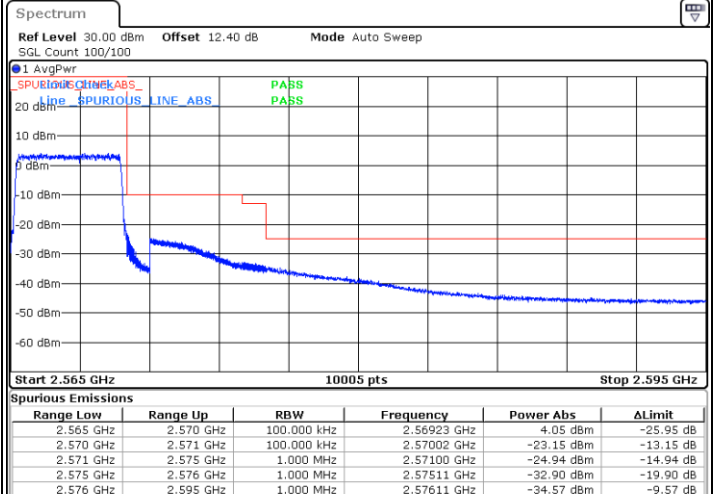
Date: 14.FEB.2024 18:14:32

Lowest Band Edge / Full RB



Date: 14.FEB.2024 18:12:52

Highest Band Edge / Full RB

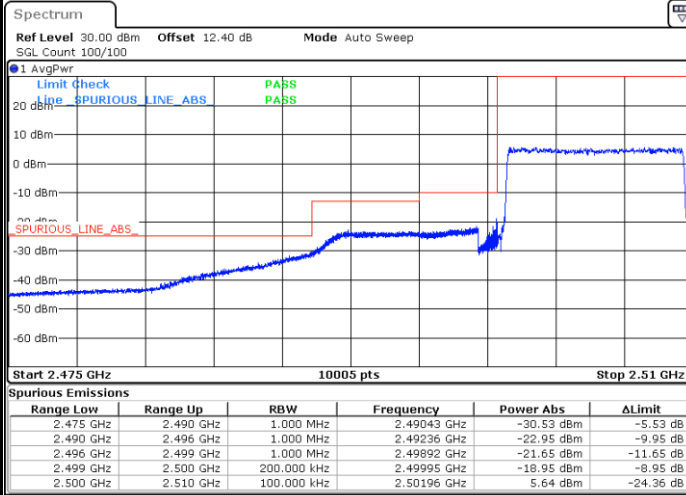


Date: 14.FEB.2024 18:16:11

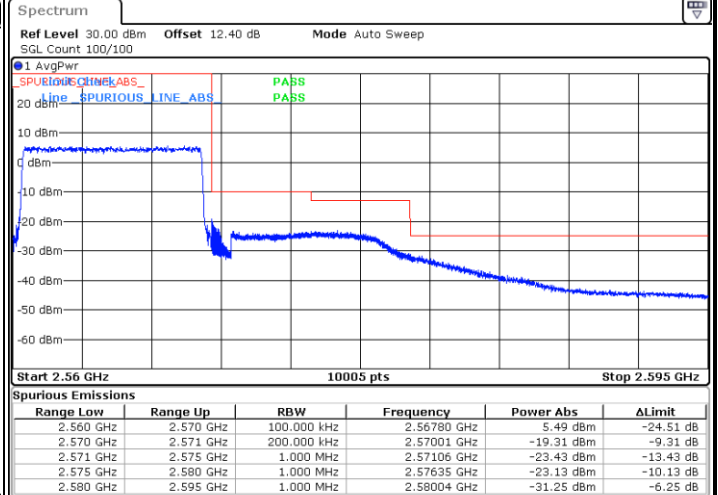


LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / Full RB

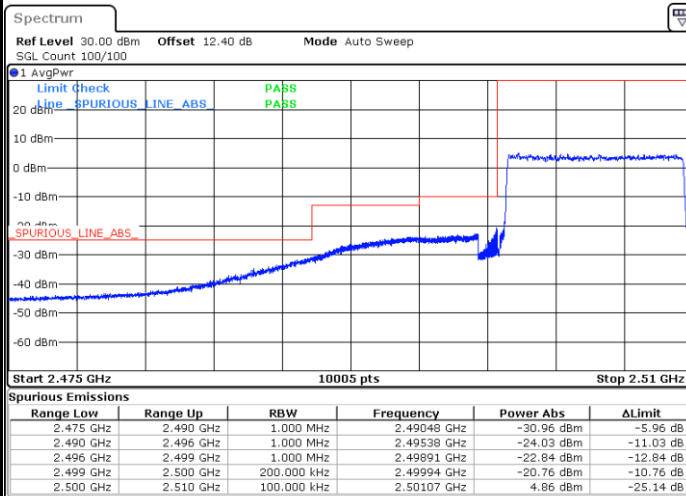


Highest Band Edge / Full RB

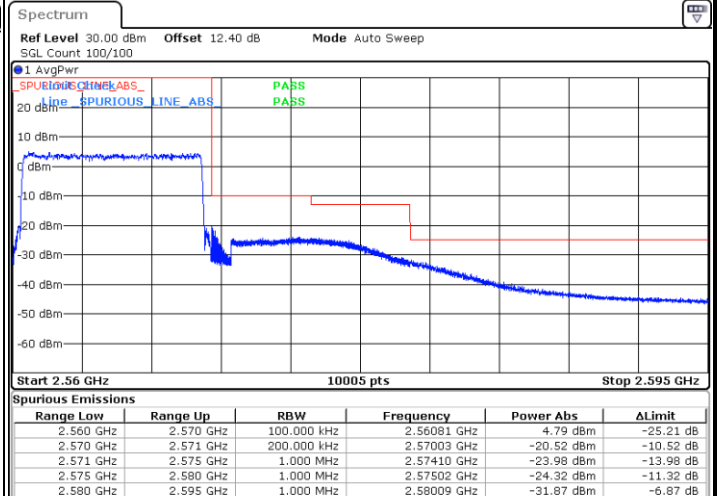


LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / Full RB



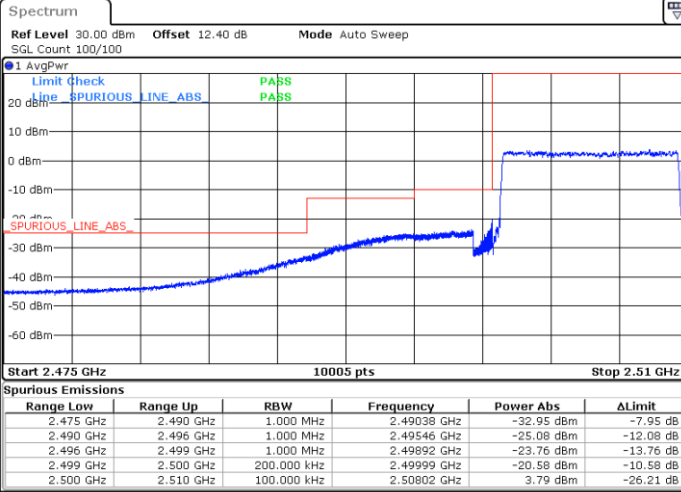
Highest Band Edge / Full RB



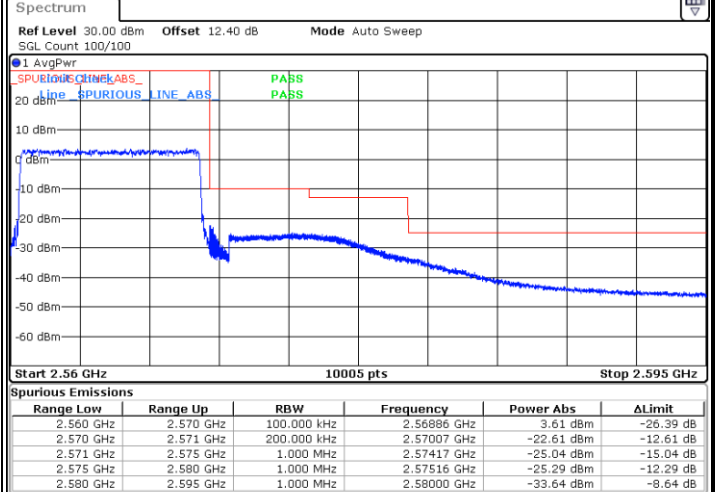


LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / Full RB

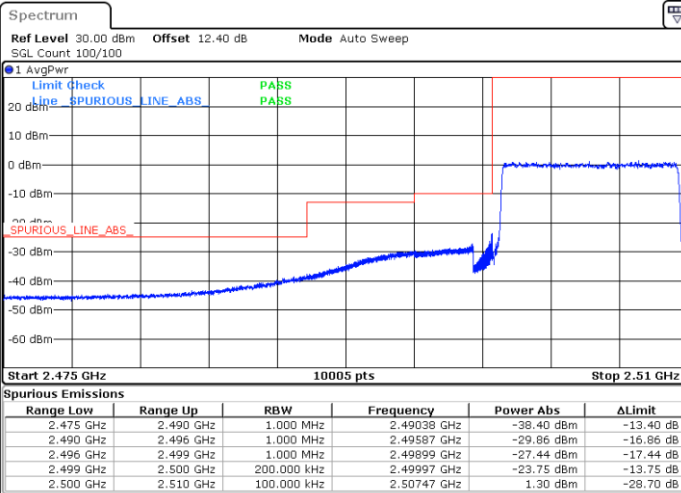


Highest Band Edge / Full RB

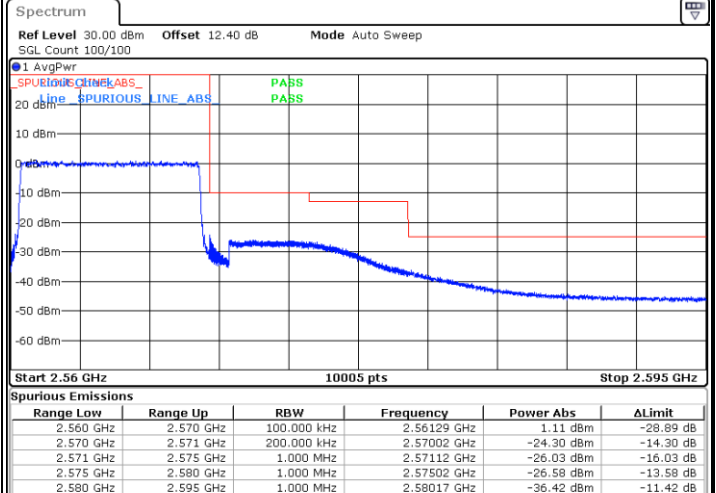


LTE Band 7 / 10MHz / 256QAM

Lowest Band Edge / Full RB



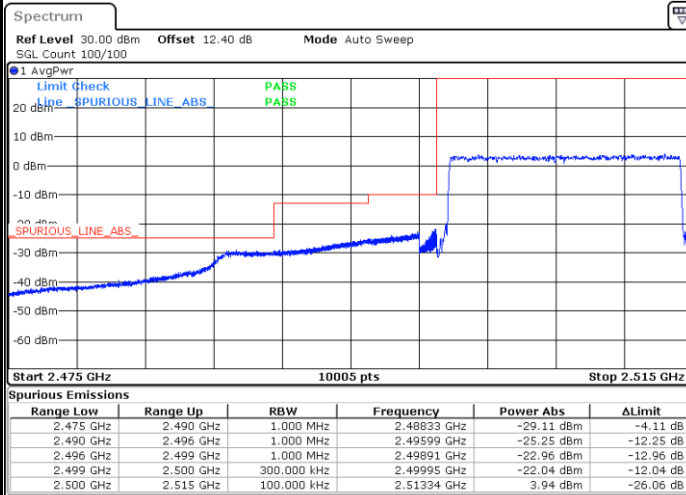
Highest Band Edge / Full RB



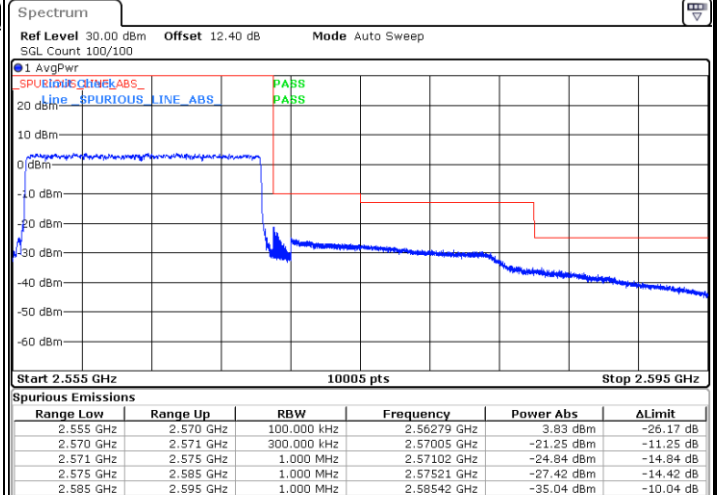


LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / Full RB

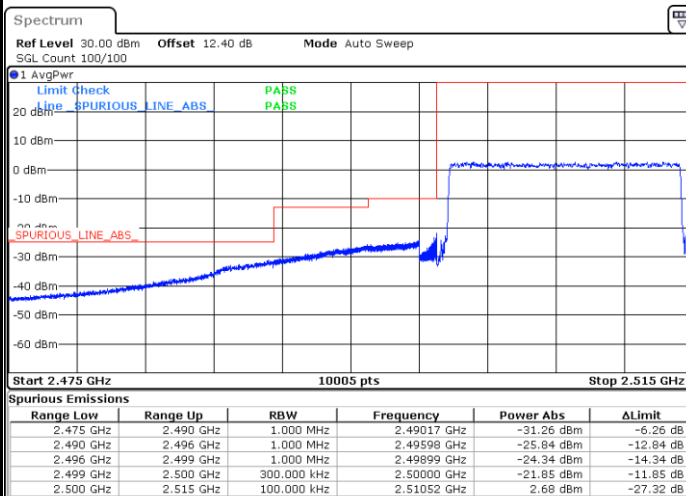


Highest Band Edge / Full RB

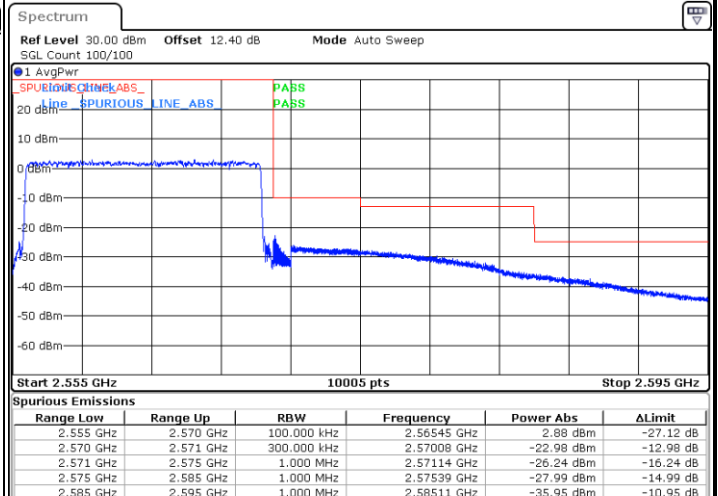


LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / Full RB



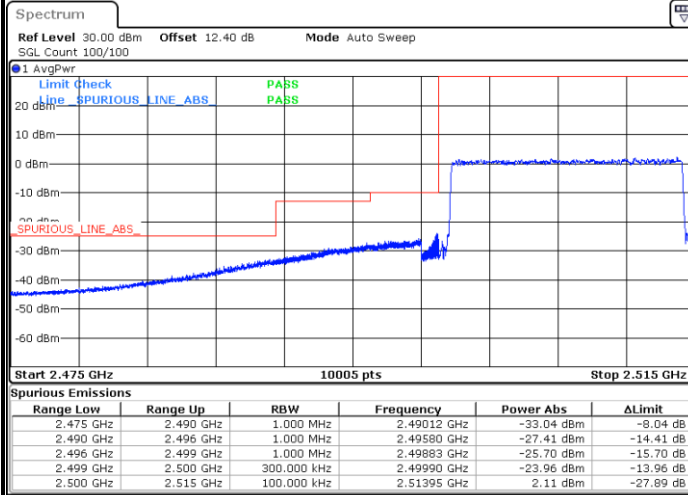
Highest Band Edge / Full RB



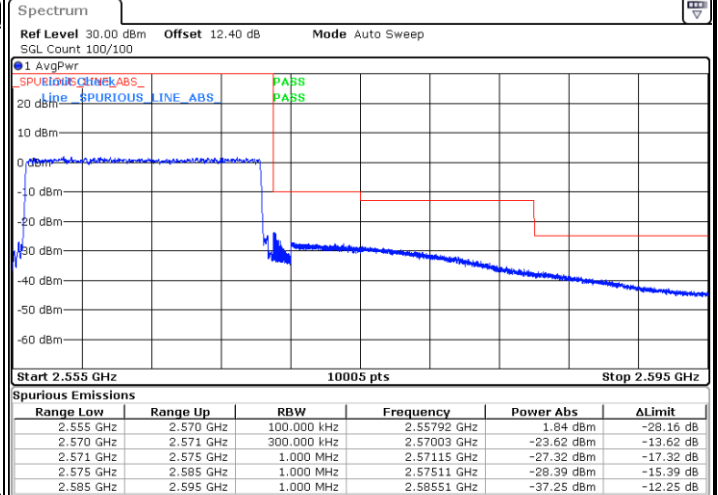


LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / Full RB

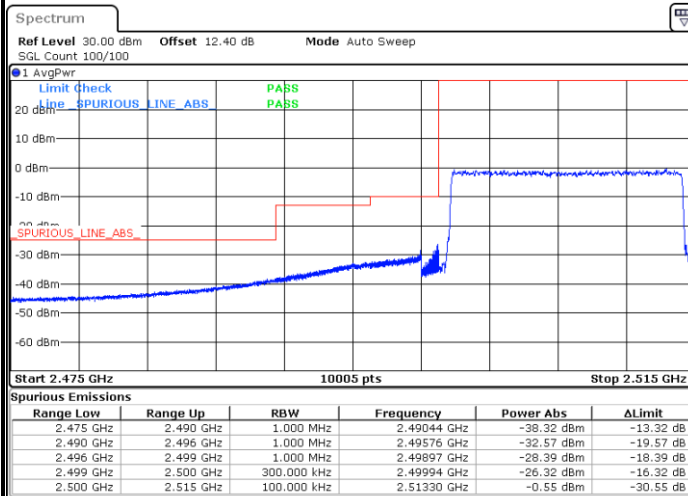


Highest Band Edge / Full RB

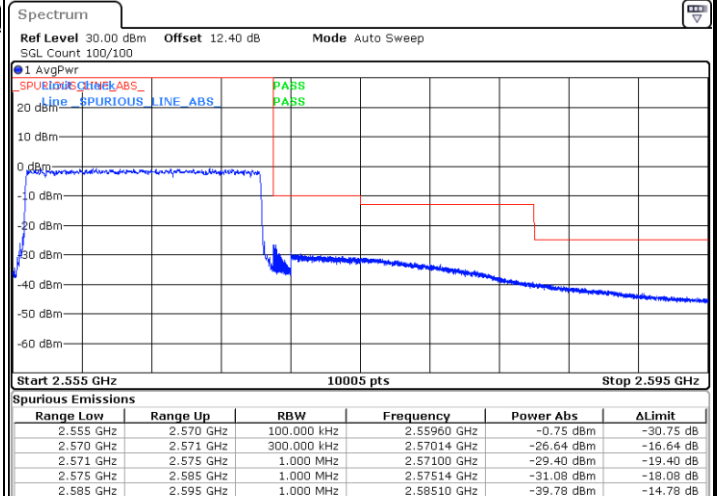


LTE Band 7 / 15MHz / 256QAM

Lowest Band Edge / Full RB



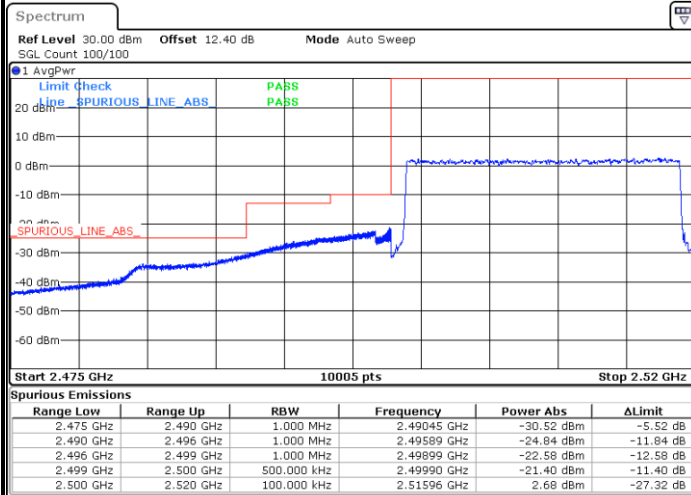
Highest Band Edge / Full RB



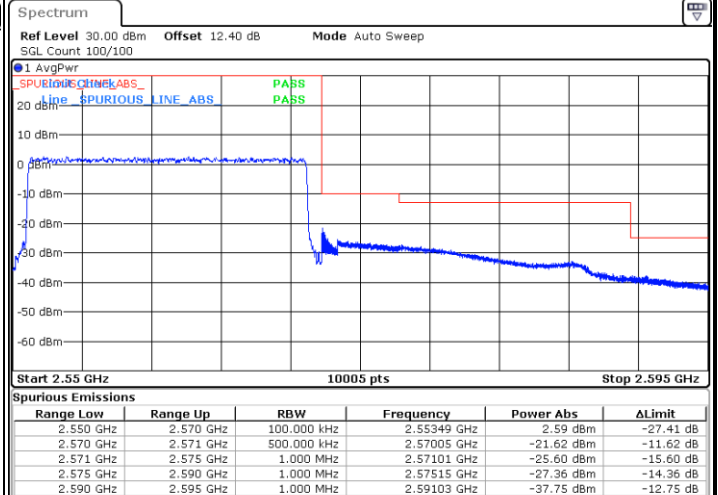


LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / Full RB

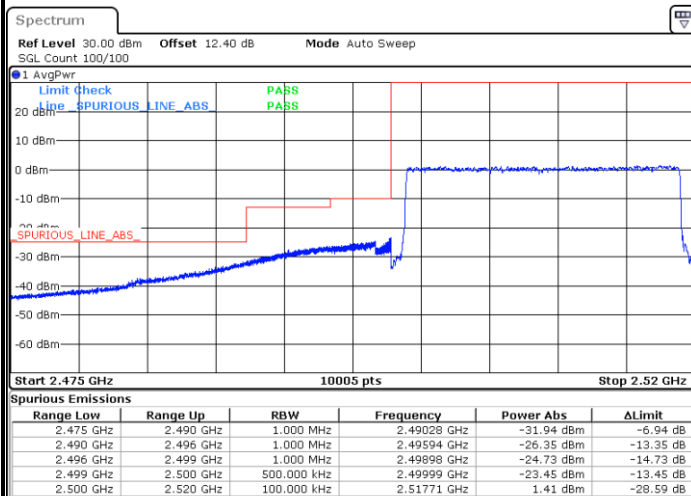


Highest Band Edge / Full RB

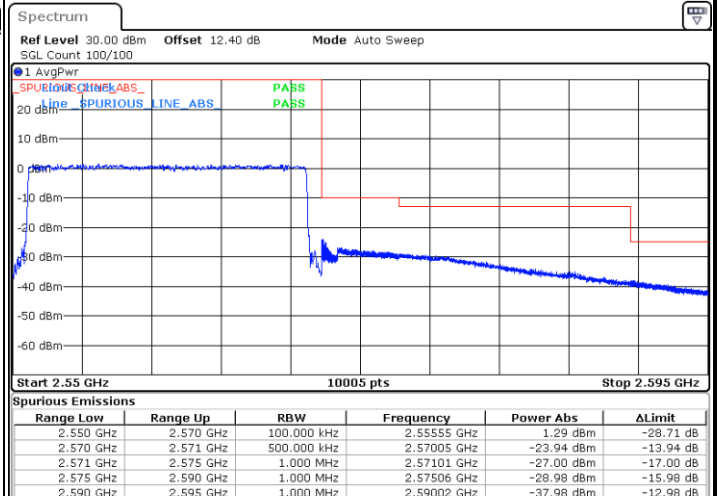


LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / Full RB



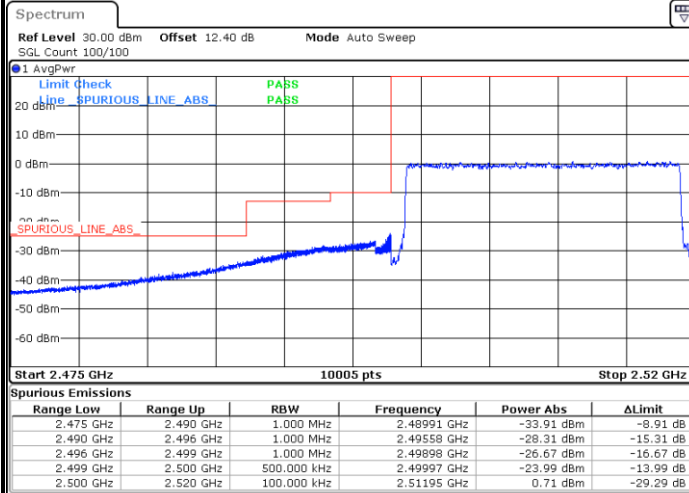
Highest Band Edge / Full RB



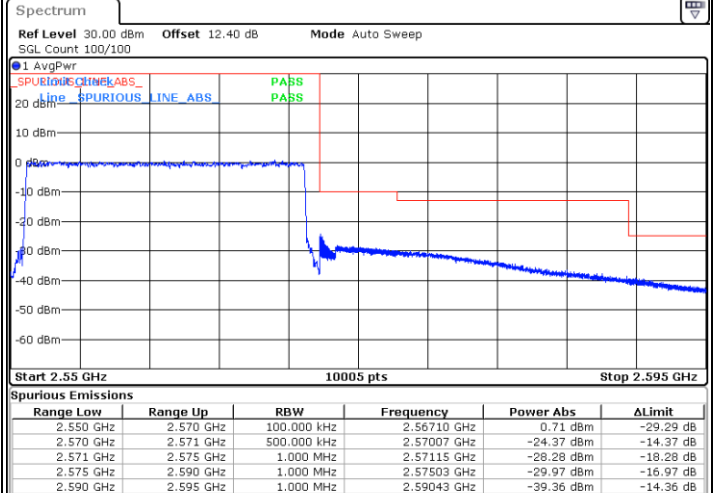


LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / Full RB

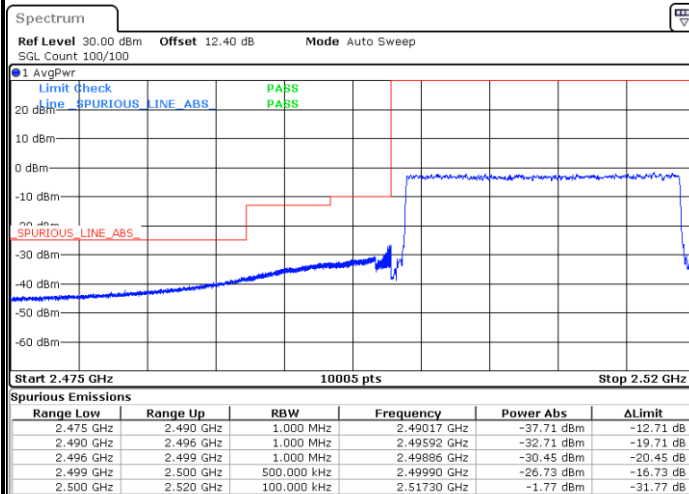


Highest Band Edge / Full RB

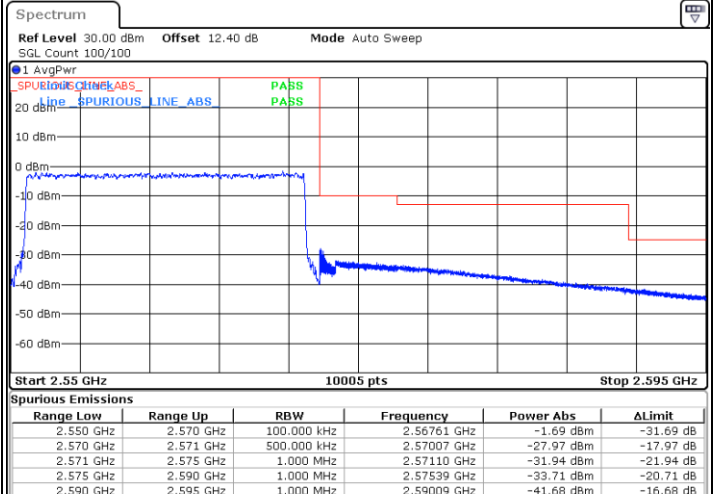


LTE Band 7 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

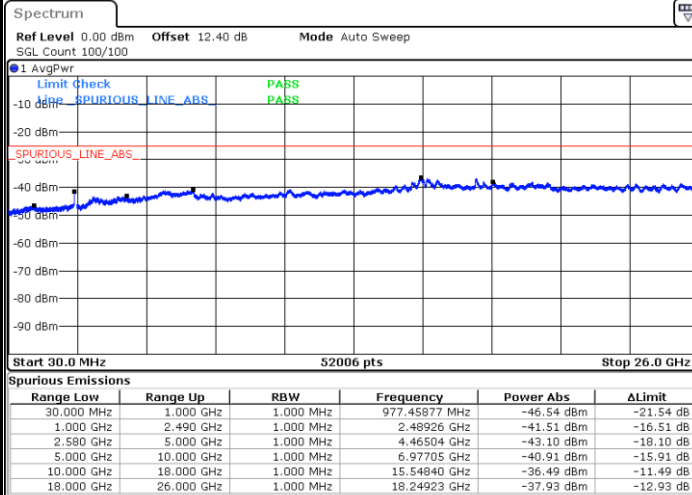




Conducted Spurious Emission

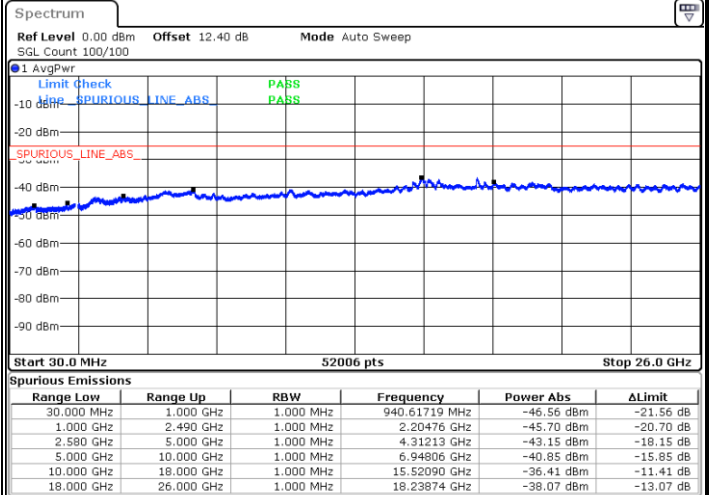
LTE Band 7 / 5MHz

Lowest Channel / QPSK



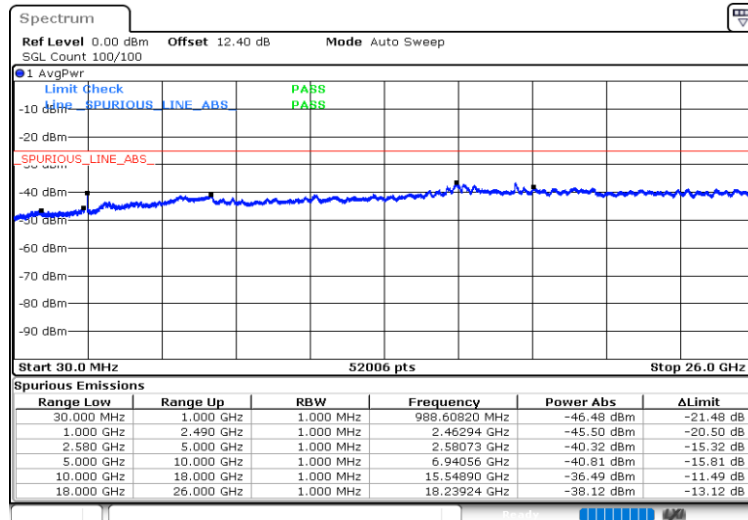
Date: 12.FEB.2024 07:31:31

Middle Channel / QPSK



Date: 12.FEB.2024 07:34:23

Highest Channel / QPSK

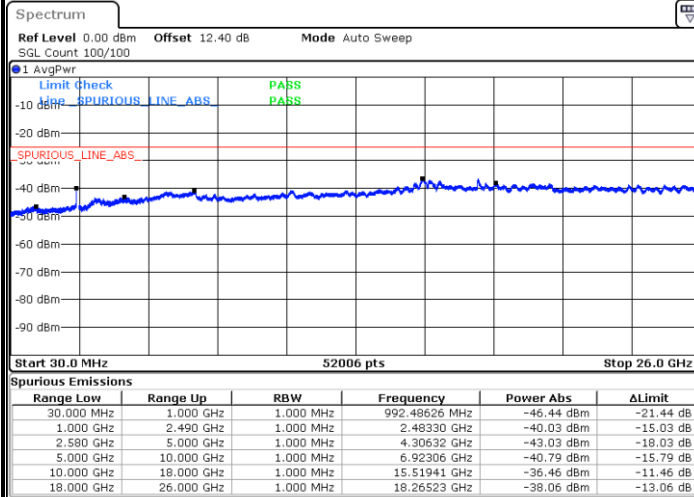


Date: 12.FEB.2024 07:43:53



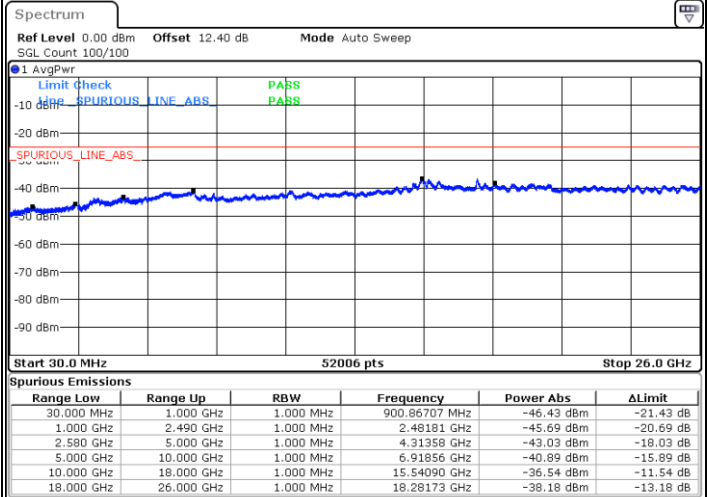
LTE Band 7 / 10MHz

Lowest Channel / QPSK



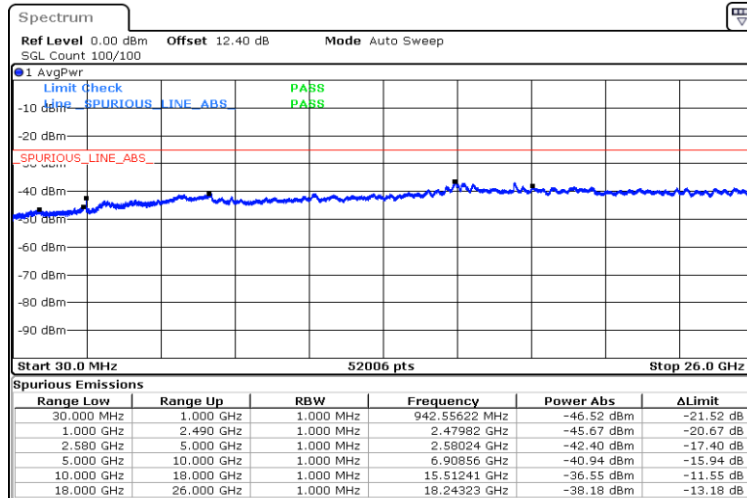
Date: 12.FEB.2024 09:05:24

Middle Channel / QPSK



Date: 12.FEB.2024 09:06:37

Highest Channel / QPSK

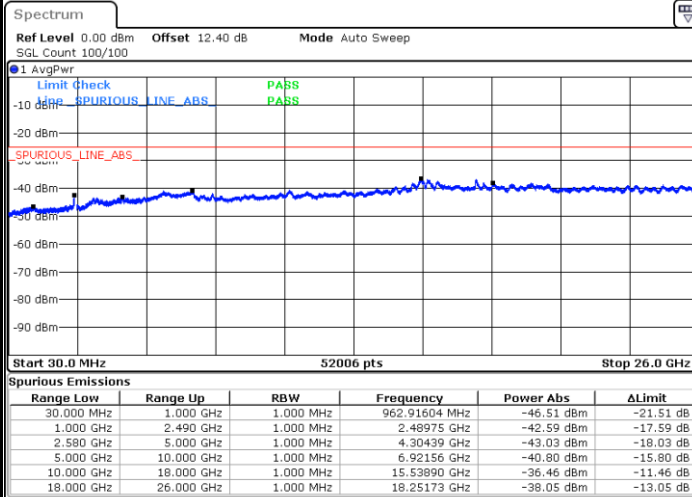


Date: 12.FEB.2024 09:07:50



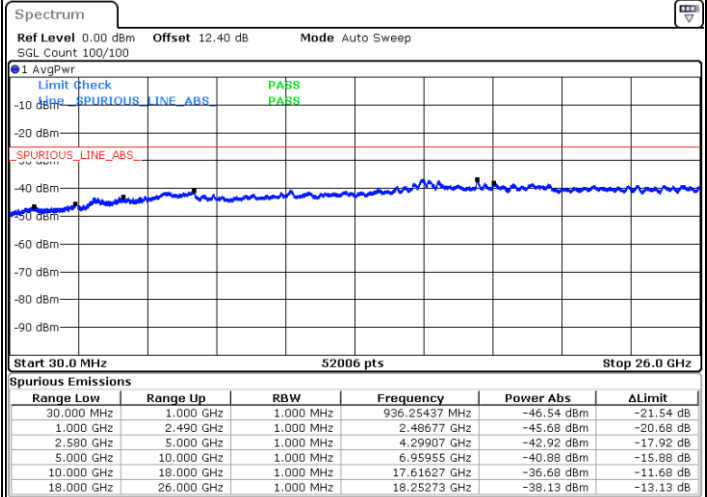
LTE Band 7 / 15MHz

Lowest Channel / QPSK



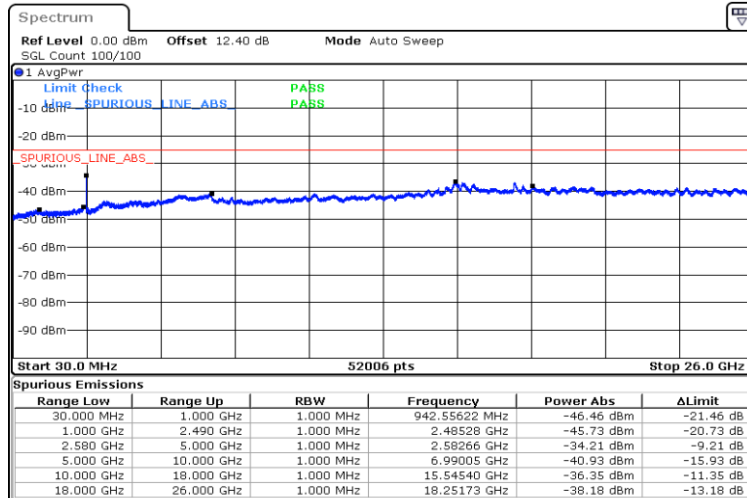
Date: 12.FEB.2024 09:09:04

Middle Channel / QPSK



Date: 12.FEB.2024 09:10:17

Highest Channel / QPSK

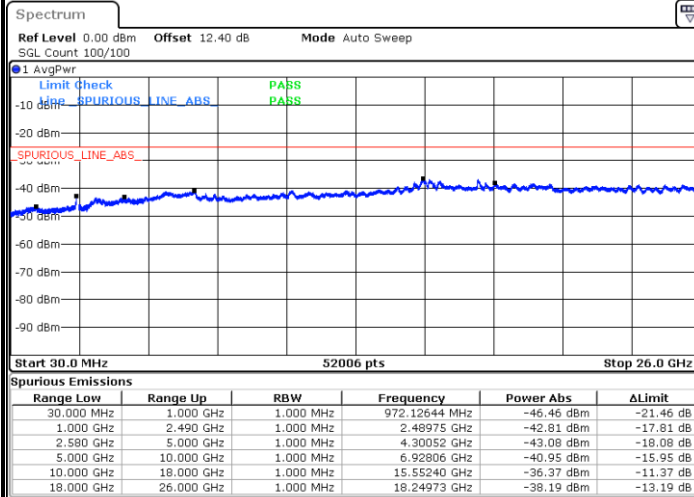


Date: 12.FEB.2024 09:11:30



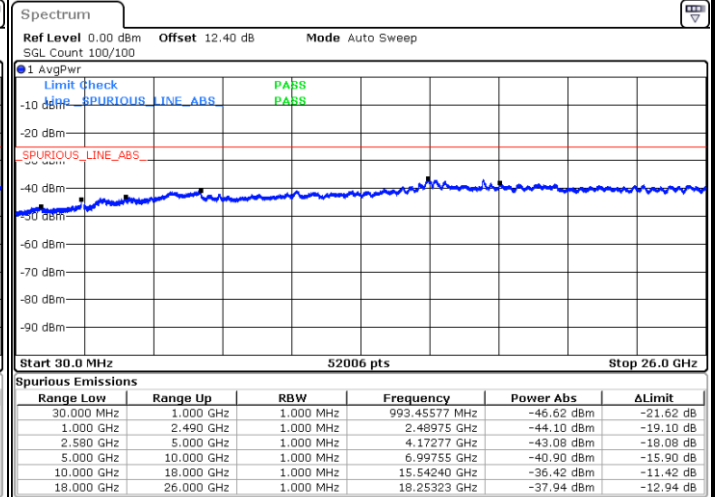
LTE Band 7 / 20MHz

Lowest Channel / QPSK



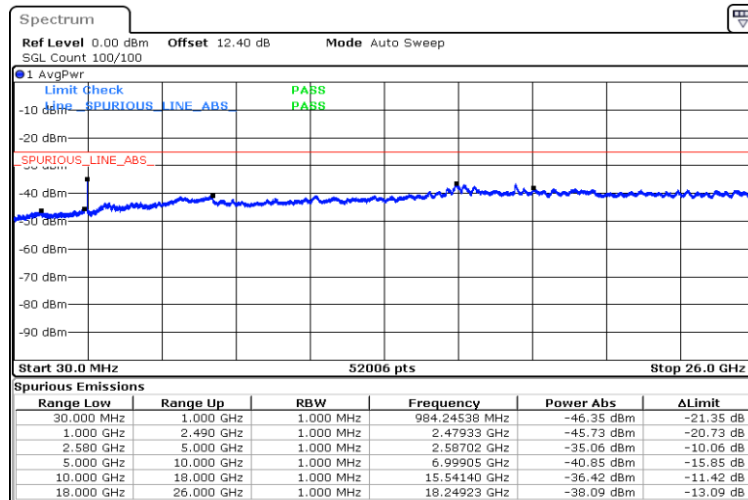
Date: 12.FEB.2024 09:13:26

Middle Channel / QPSK



Date: 12.FEB.2024 09:14:39

Highest Channel / QPSK



Date: 12.FEB.2024 09:15:51

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	0.0012	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0039	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 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	30.08	25.57	30.68	34.96
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.08	35.03	39.96	

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.91	25.47	30.74	34.89
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.03	35.24	40.11	

Mode	LTE Band 7C : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.85	25.32	30.74	34.89
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.21	35.17	39.96	

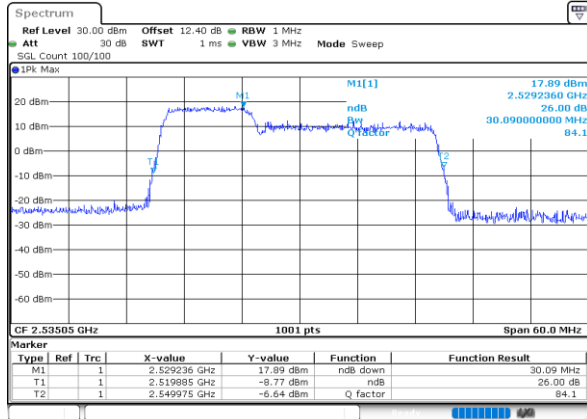
Mode	LTE Band 7C : 26dB BW(MHz)			
256QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.91	25.52	30.68	35.03
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.26	35.03	39.79	



LTE Band 7C

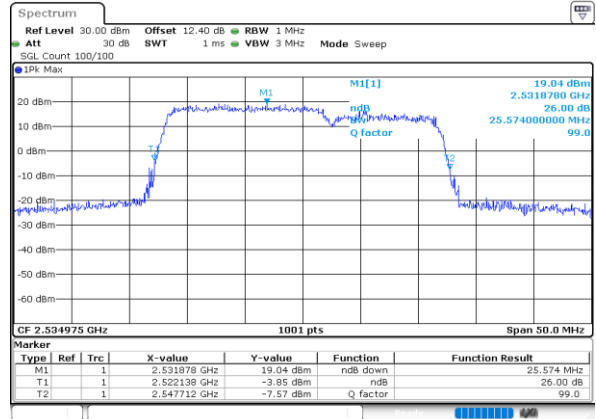
QPSK

Middle Channel / 10MHz+20MHz



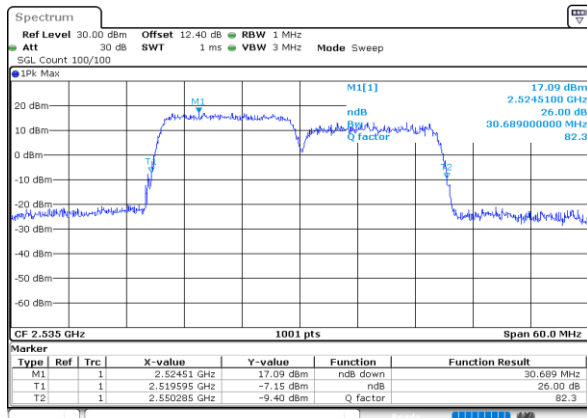
Date: 15.FEB.2024 23:47:45

Middle Channel / 15MHz+10MHz



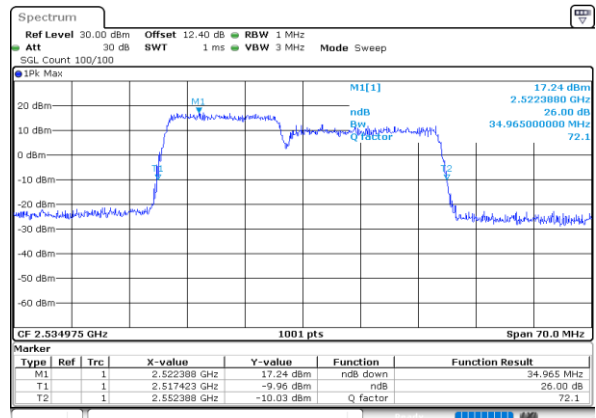
Date: 16.FEB.2024 20:22:21

Middle Channel / 15MHz+15MHz



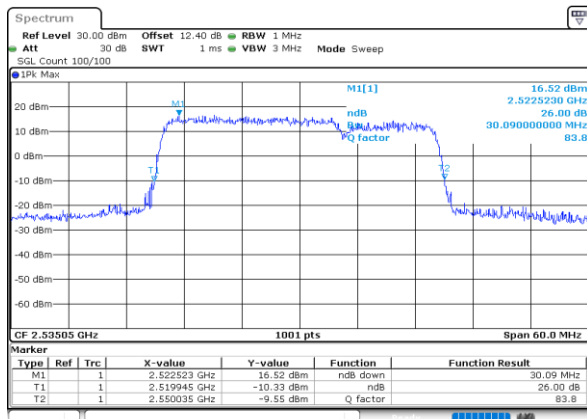
Date: 16.FEB.2024 01:09:50

Middle Channel / 15MHz+20MHz



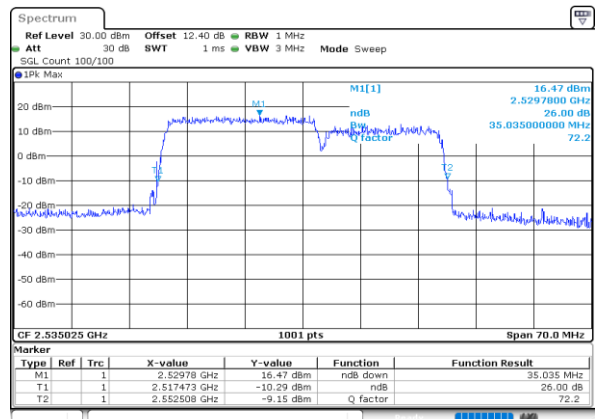
Date: 16.FEB.2024 01:49:50

Middle Channel / 20MHz+10MHz



Date: 16.FEB.2024 00:39:20

Middle Channel / 20MHz+15MHz



Date: 16.FEB.2024 02:20:26



LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A

