

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0049	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0051	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.69 V. ; Battery End Point (BEP) =3.3V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7C(Other PA)

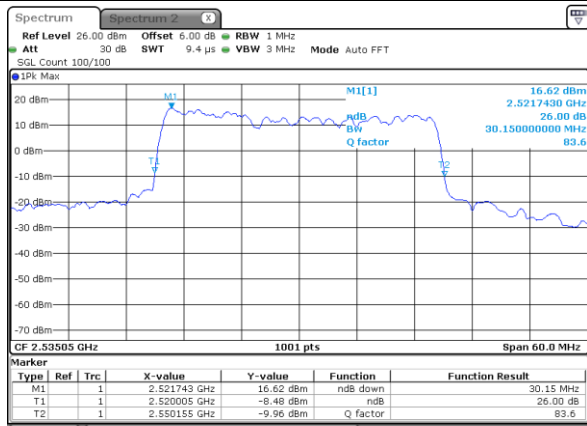
26dB Bandwidth

Mode	LTE Band 7C : 26dB BW(MHz)	
BW	10MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	30.15	30.03
BW	15MHz+10MHz	
Mod.	QPSK	16QAM
Middle CH	25.23	25.38
BW	15MHz+15MHz	
Mod.	QPSK	16QAM
Middle CH	30.69	30.57
BW	15MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	34.83	34.83
BW	20MHz+10MHz	
Mod.	QPSK	16QAM
Middle CH	30.33	29.97
BW	20MHz+15MHz	
Mod.	QPSK	16QAM
Middle CH	35.11	34.90
BW	20MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	40.04	39.96

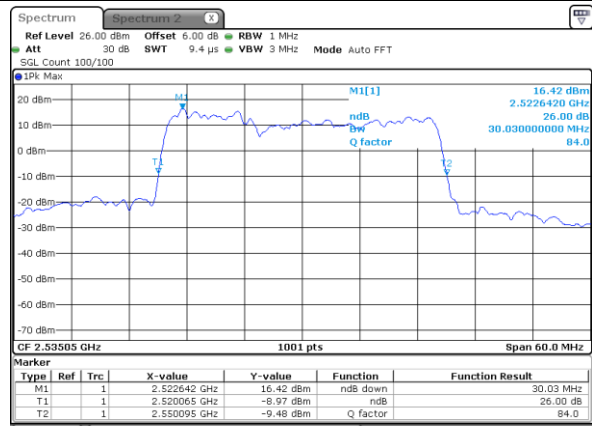


LTE Band 7

Middle Channel / 10MHz+20MHz / QPSK

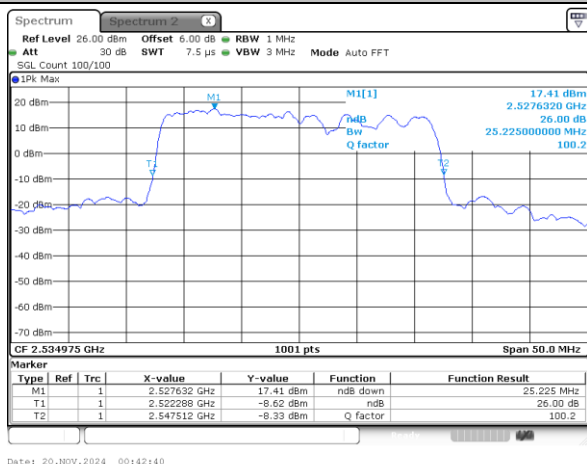


Middle Channel / 10MHz+20MHz / 16QAM

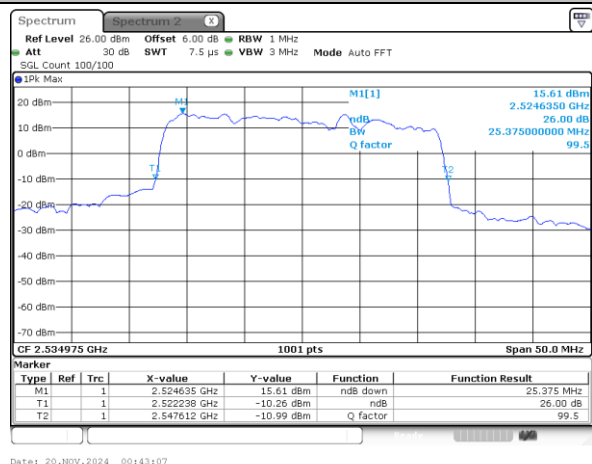


LTE Band 7

Middle Channel / 15MHz+10MHz / QPSK

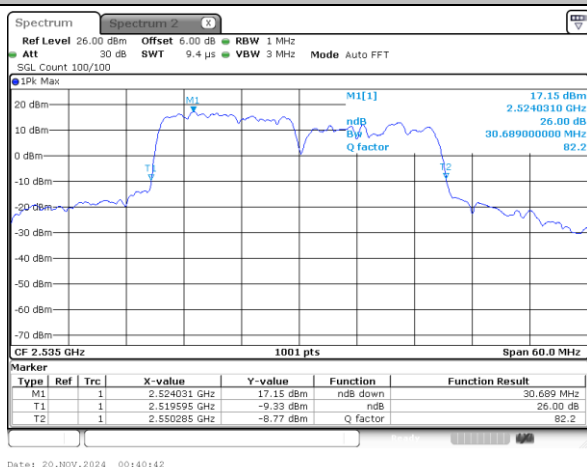


Middle Channel / 15MHz+10MHz / 16QAM

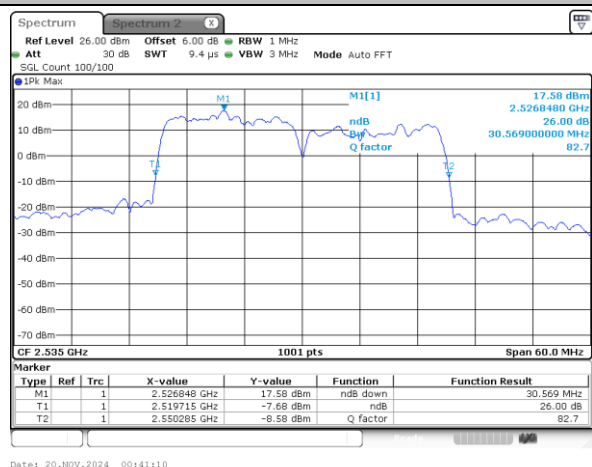


LTE Band 7

Middle Channel / 15MHz+15MHz / QPSK



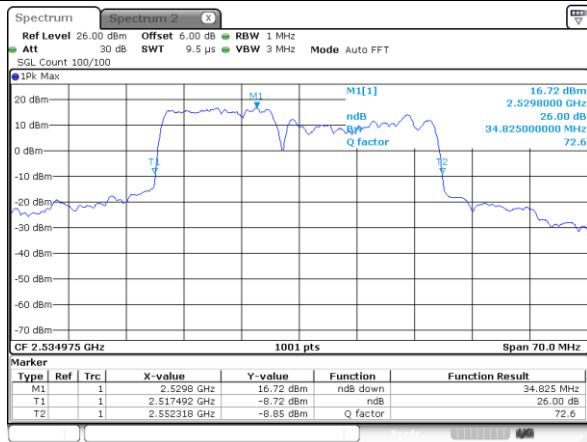
Middle Channel / 15MHz+15MHz / 16QAM



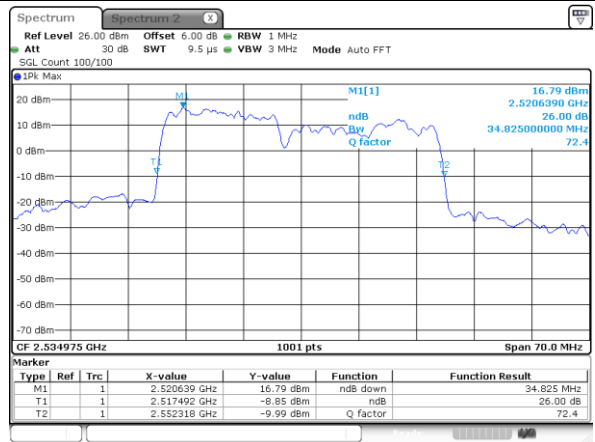


LTE Band 7

Middle Channel / 15MHz+20MHz / QPSK

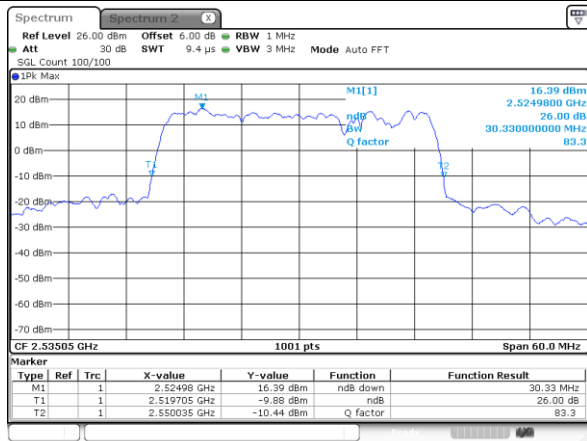


Middle Channel / 15MHz+20MHz / 16QAM

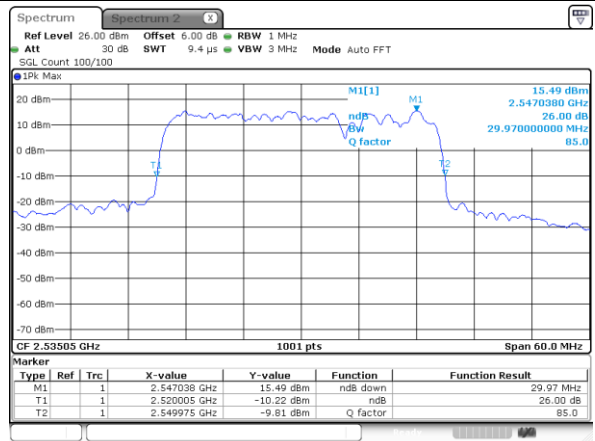


LTE Band 7

Middle Channel / 20MHz+10MHz / QPSK

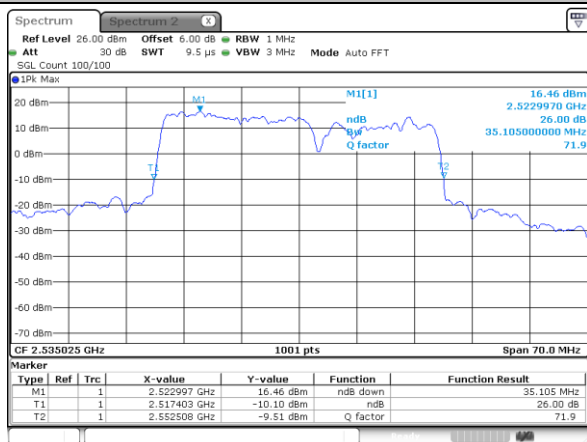


Middle Channel / 20MHz+10MHz / 16QAM

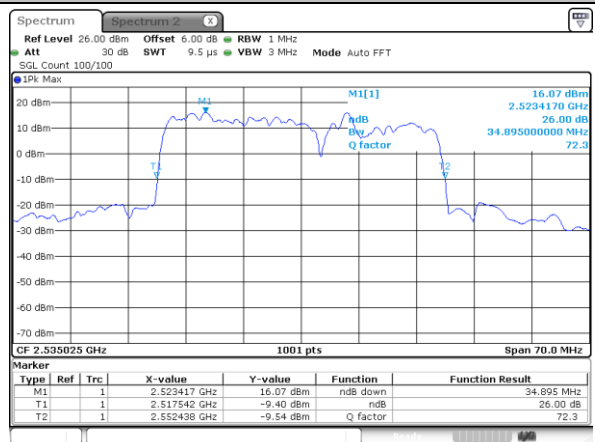


LTE Band 7

Middle Channel / 20MHz+15MHz / QPSK



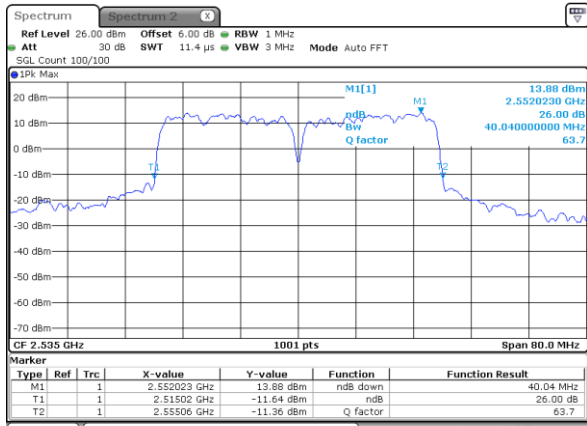
Middle Channel / 20MHz+15MHz / 16QAM





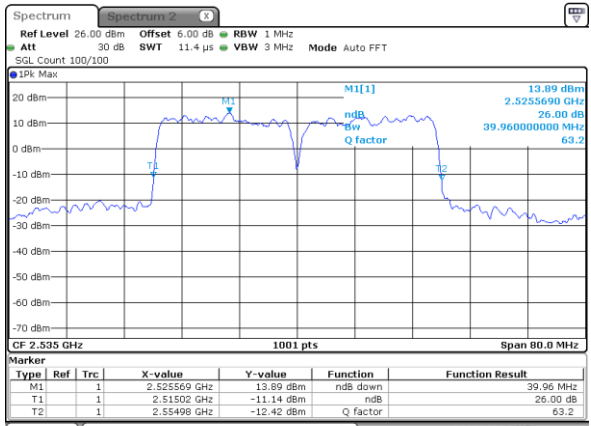
LTE Band 7

Middle Channel / 20MHz+20MHz / QPSK



Date: 20,NOV,2024 00:29:25

Middle Channel / 20MHz+20MHz / 16QAM



Date: 20,NOV,2024 00:29:53

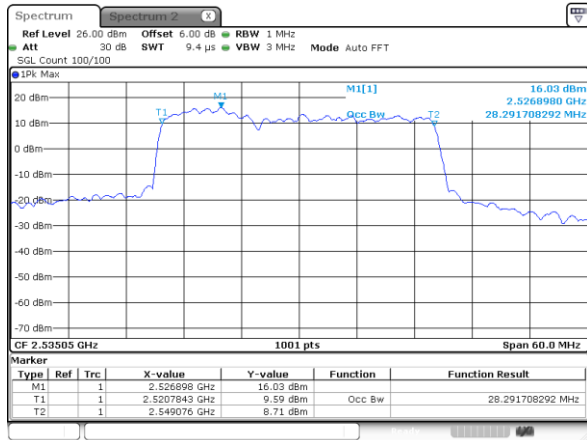
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	10MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	28.29	28.29
BW	15MHz+10MHz	
Mod.	QPSK	16QAM
Middle CH	23.48	23.38
BW	15MHz+15MHz	
Mod.	QPSK	16QAM
Middle CH	28.65	28.53
BW	15MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	33.01	32.94
BW	20MHz+10MHz	
Mod.	QPSK	16QAM
Middle CH	28.23	28.11
BW	20MHz+15MHz	
Mod.	QPSK	16QAM
Middle CH	33.08	32.73
BW	20MHz+20MHz	
Mod.	QPSK	16QAM
Middle CH	38.04	37.80



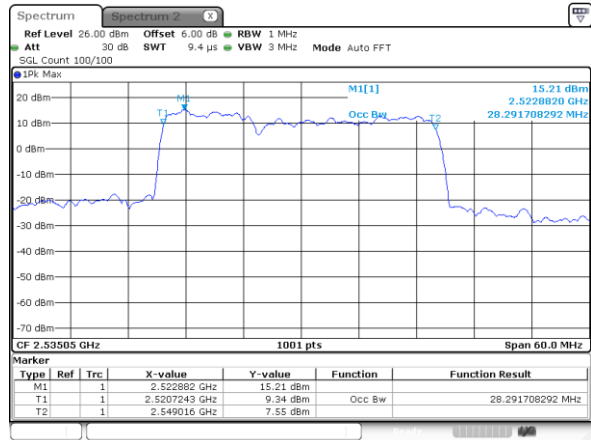
LTE Band 7

Middle Channel / 10MHz+20MHz / QPSK



Date: 20.NOV.2024 00:16:21

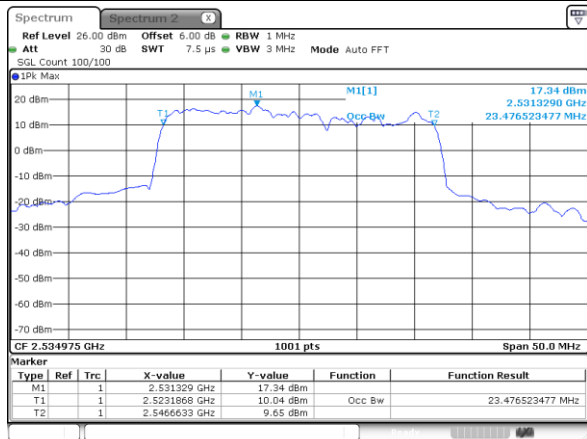
Middle Channel / 10MHz+20MHz / 16QAM



Date: 20.NOV.2024 00:17:43

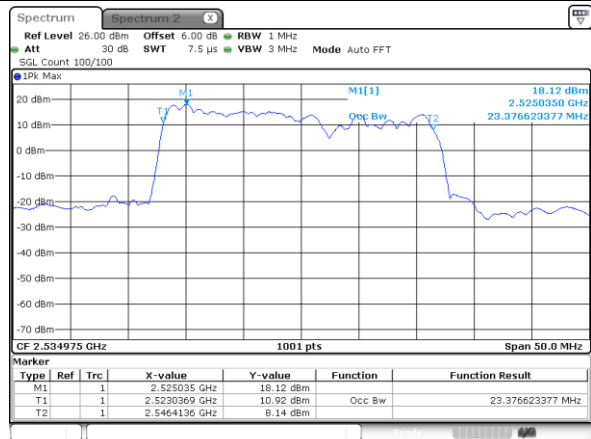
LTE Band 7

Middle Channel / 15MHz+10MHz / QPSK



Date: 20.NOV.2024 00:42:12

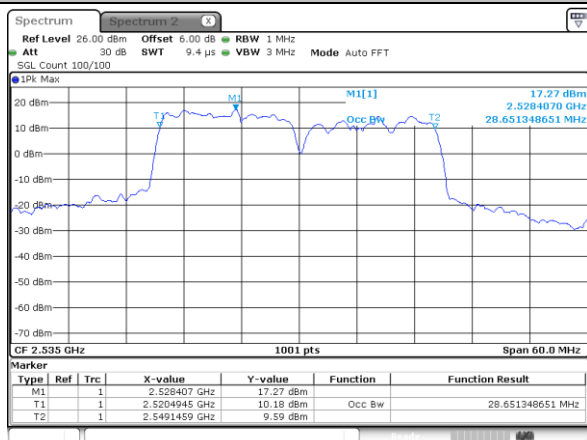
Middle Channel / 15MHz+10MHz / 16QAM



Date: 20.NOV.2024 00:43:35

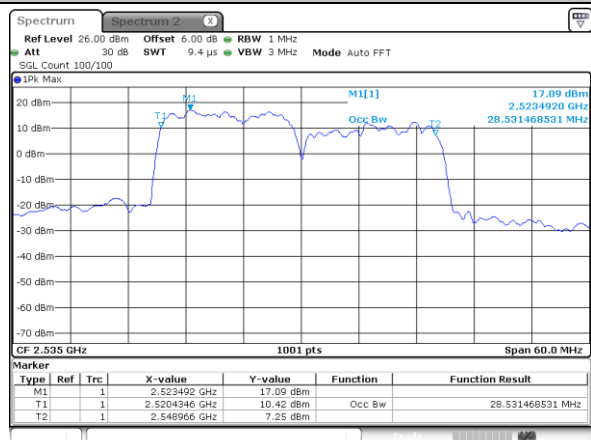
LTE Band 7

Middle Channel / 15MHz+15MHz / QPSK



Date: 20.NOV.2024 00:40:15

Middle Channel / 15MHz+15MHz / 16QAM

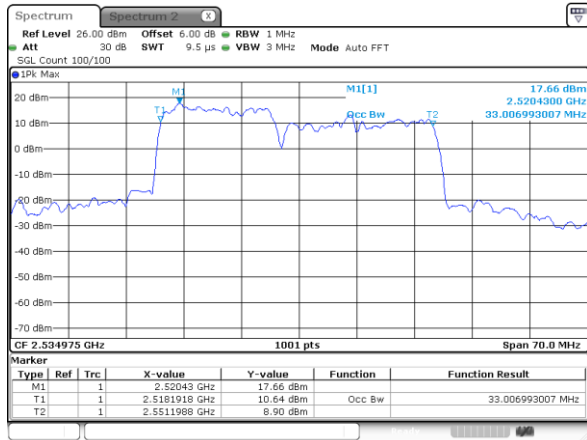


Date: 20.NOV.2024 00:41:37

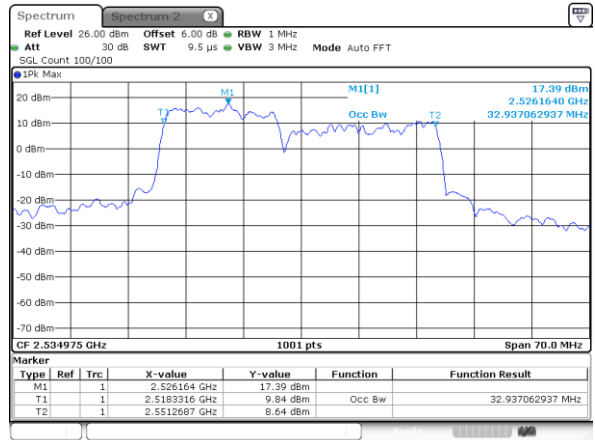


LTE Band 7

Middle Channel / 15MHz+20MHz / QPSK

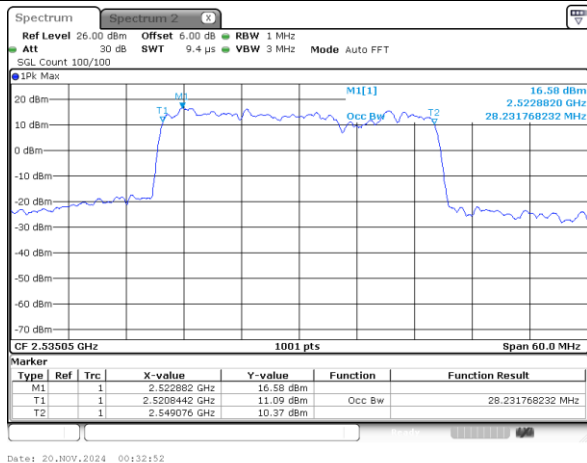


Middle Channel / 15MHz+20MHz / 16QAM

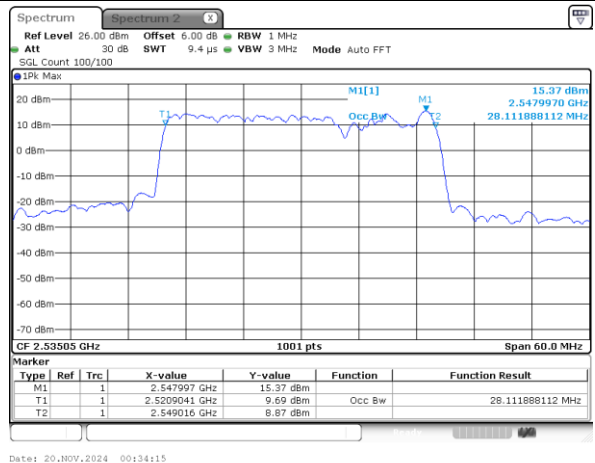


LTE Band 7

Middle Channel / 20MHz+10MHz / QPSK

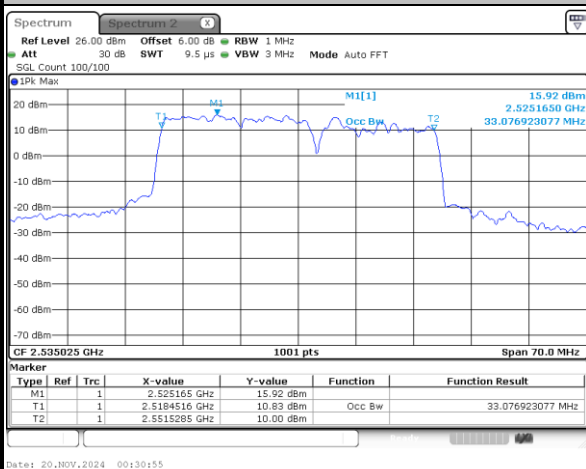


Middle Channel / 20MHz+10MHz / 16QAM

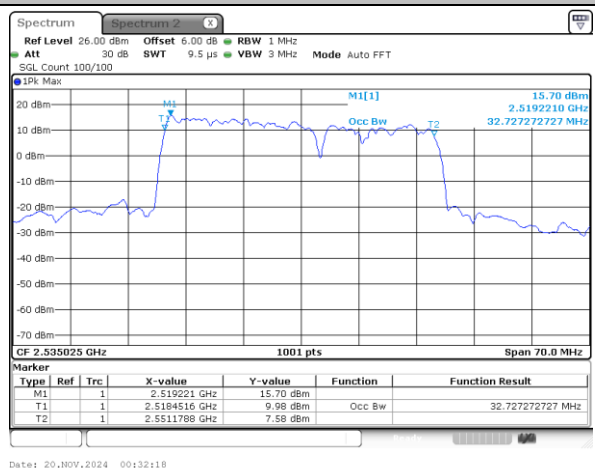


LTE Band 7

Middle Channel / 20MHz+15MHz / QPSK



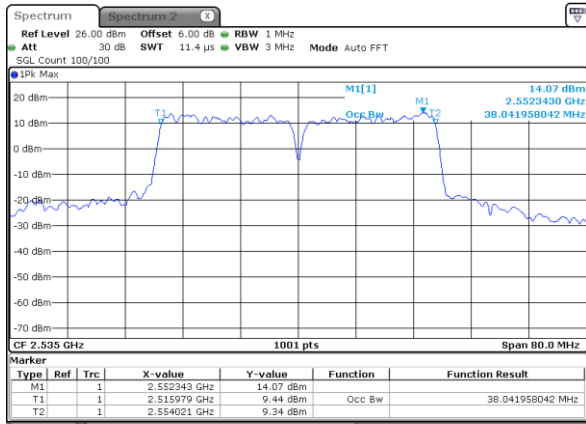
Middle Channel / 20MHz+15MHz / 16QAM





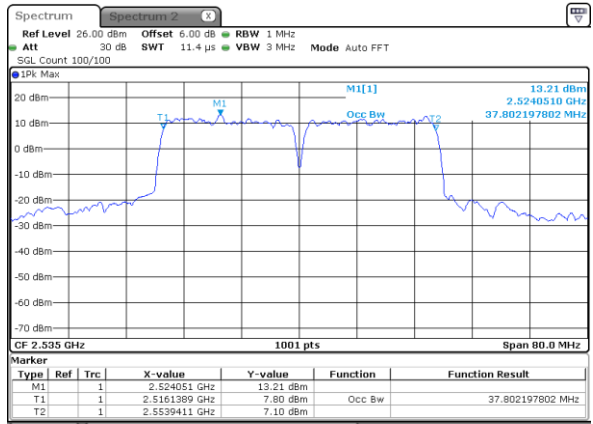
LTE Band 7

Middle Channel / 20MHz+20MHz / QPSK



Date: 20,NOV,2024 00:28:58

Middle Channel / 20MHz+20MHz / 16QAM



Date: 20,NOV,2024 00:30:20

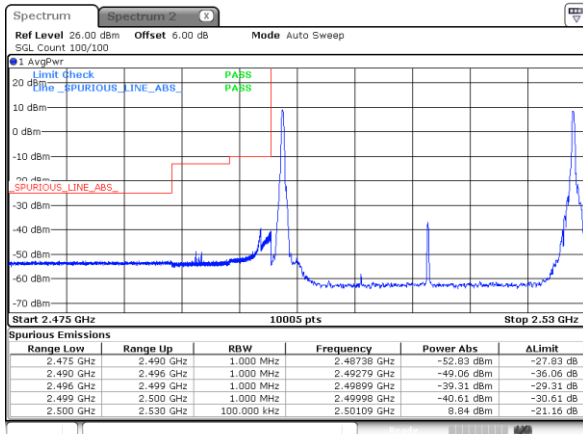


Conducted Band Edge

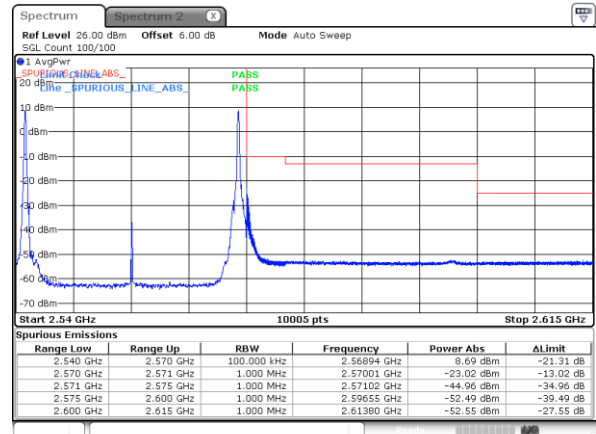
LTE Band 7 / 10MHz+20MHz

QPSK

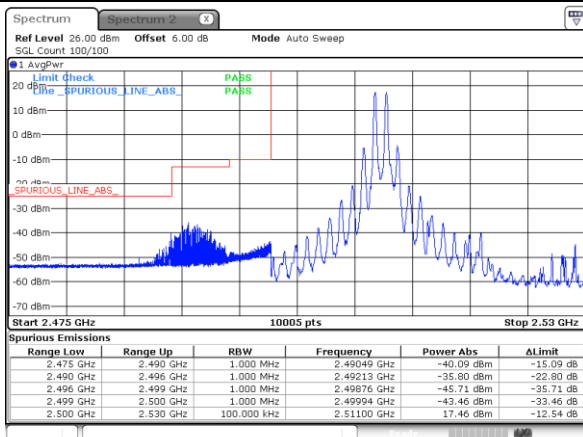
Lowest Band Edge / 1RB0 and 1RB99



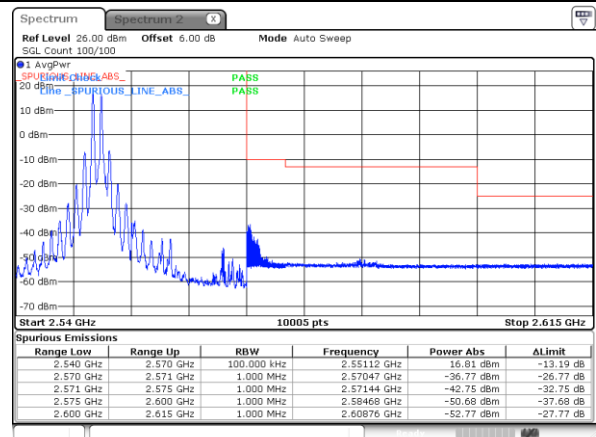
Highest Band Edge / 1RB0 and 1RB99



Lowest Band Edge / 1RB49 and 1RB0

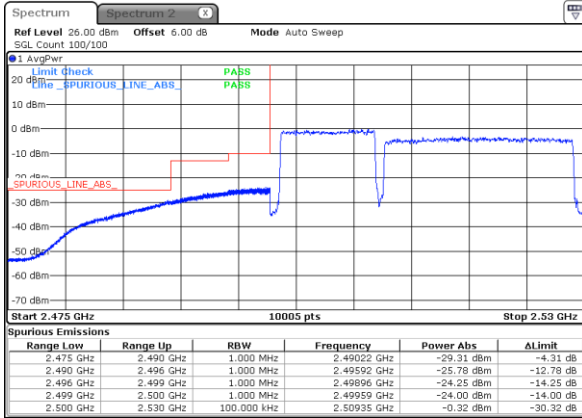


Highest Band Edge / 1RB49 and 1RB0



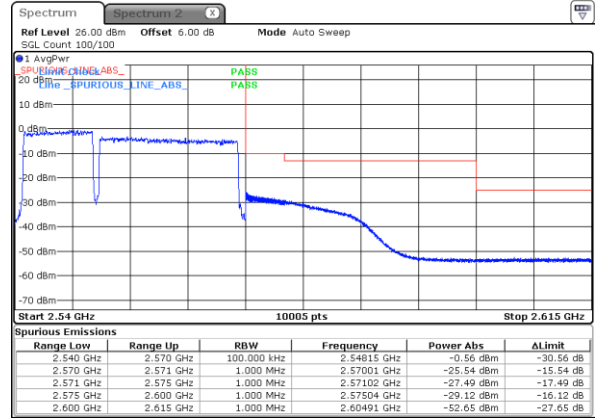


Lowest Band Edge / Full RB



Date: 19,NOV,2024 16:10:21

Highest Band Edge / Full RB



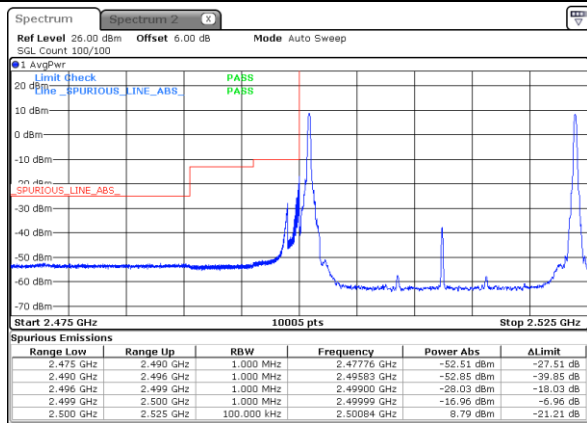
Date: 19,NOV,2024 17:15:51



LTE Band 7 / 15MHz+10MHz

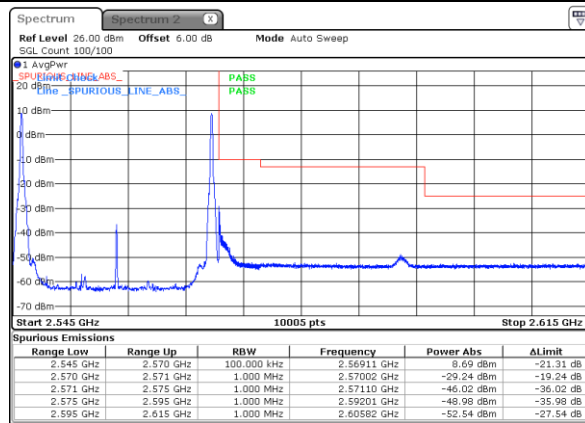
QPSK

Lowest Band Edge / 1RB0 and 1RB49



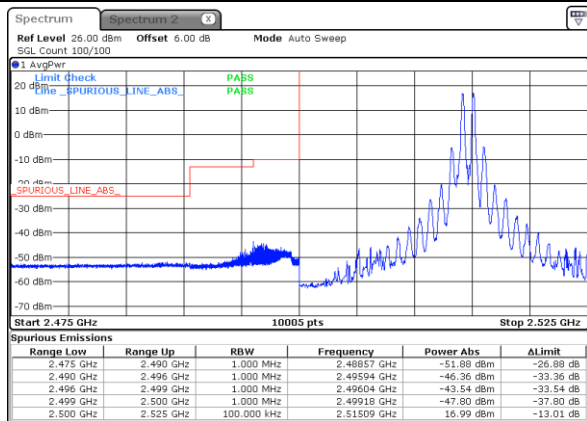
Date: 20,NOV,2024 00:46:37

Highest Band Edge / 1RB0 and 1RB49



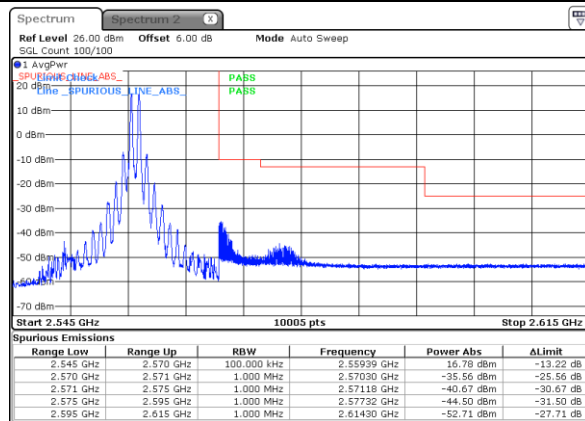
Date: 19,NOV,2024 20:07:17

Lowest Band Edge / 1RB74 and 1RB0



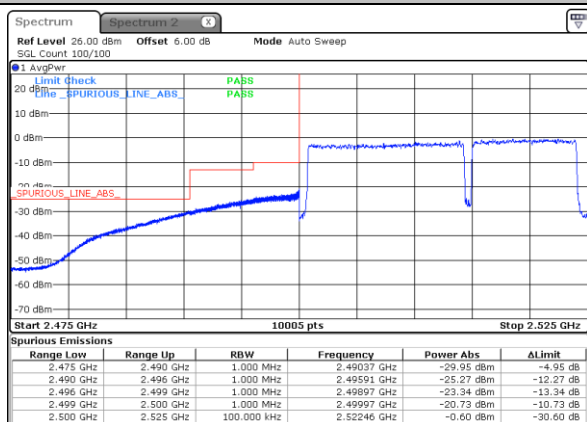
Date: 20,NOV,2024 00:50:08

Highest Band Edge / 1RB74 and 1RB0



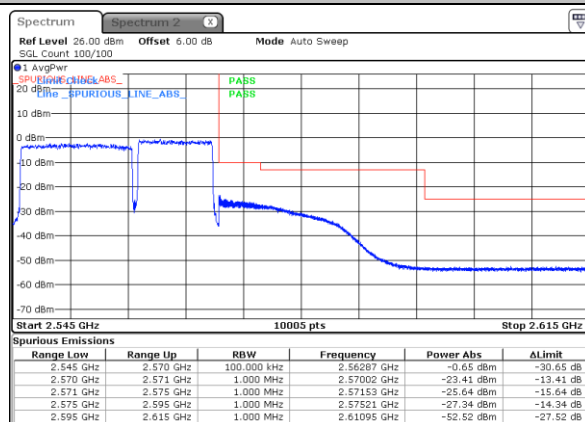
Date: 19,NOV,2024 20:14:33

Lowest Band Edge / Full RB



Date: 20,NOV,2024 00:53:40

Highest Band Edge / Full RB



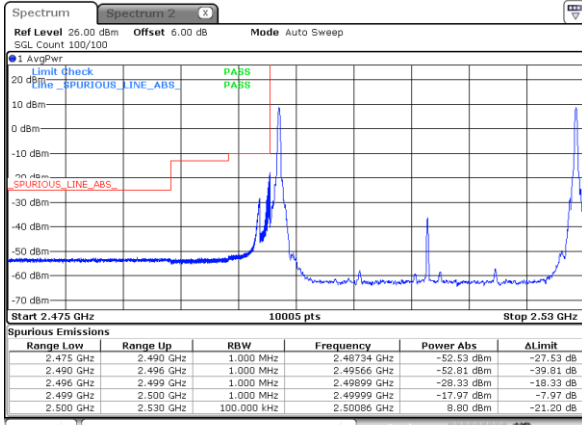
Date: 19,NOV,2024 20:21:49



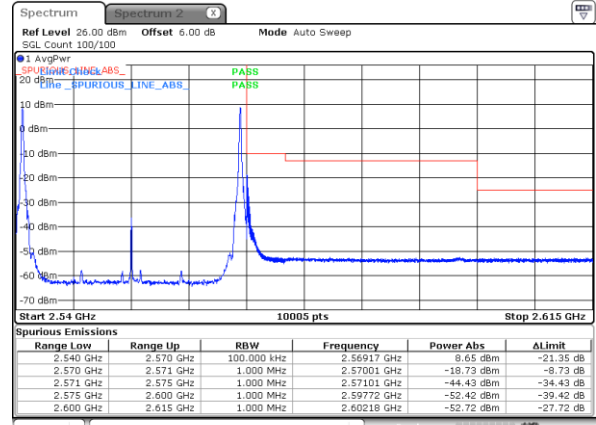
LTE Band 7 / 15MHz+15MHz

QPSK

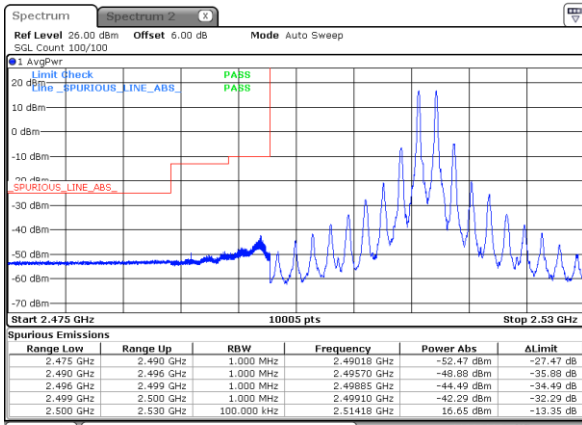
Lowest Band Edge / 1RB0 and 1RB74



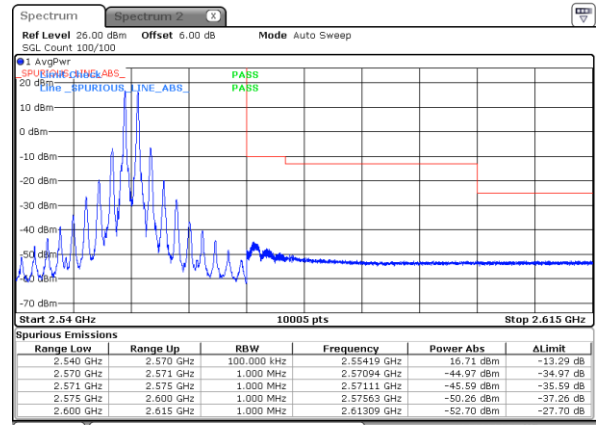
Highest Band Edge / 1RB0 and 1RB74



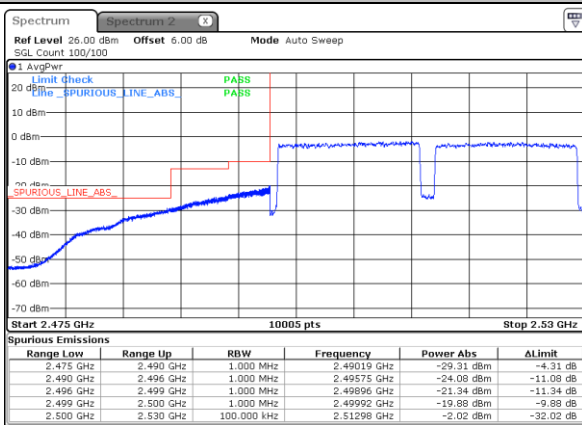
Lowest Band Edge / 1RB74 and 1RB0



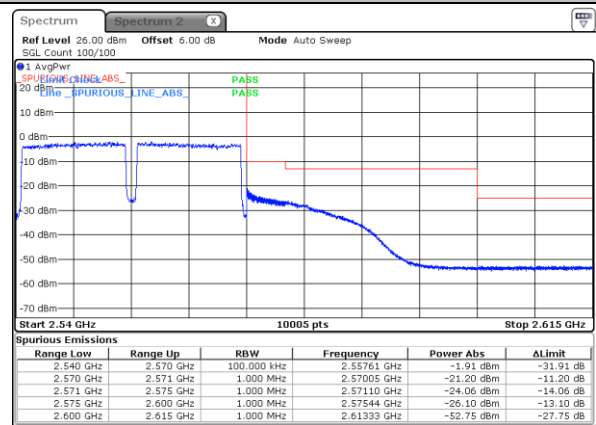
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

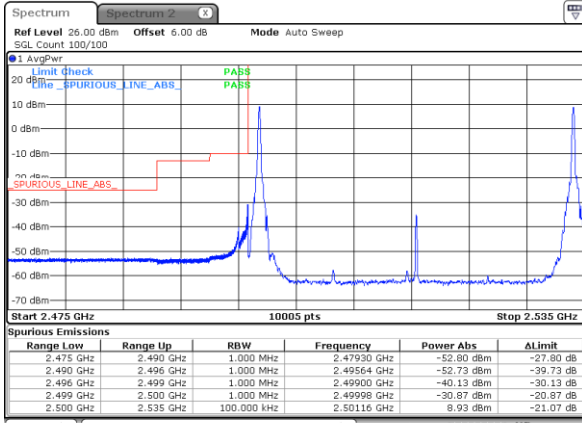




LTE Band 7 / 15MHz+20MHz

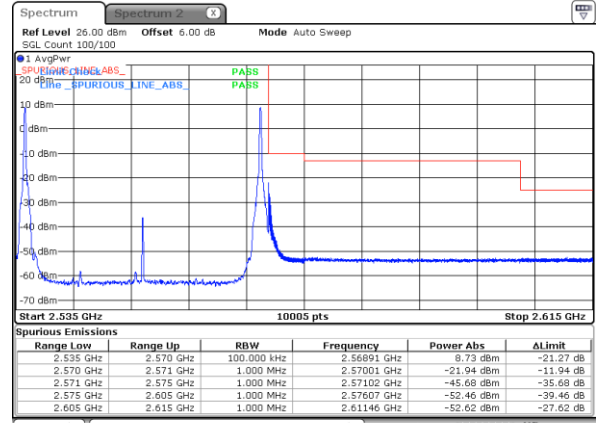
QPSK

Lowest Band Edge / 1RB0 and 1RB99



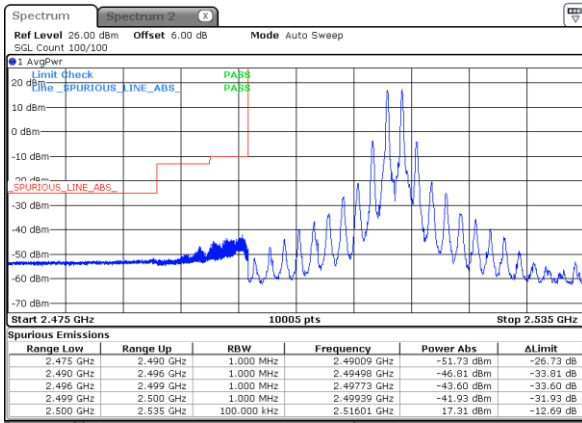
Date: 19,NOV,2024 21:22:01

Highest Band Edge / 1RB0 and 1RB99



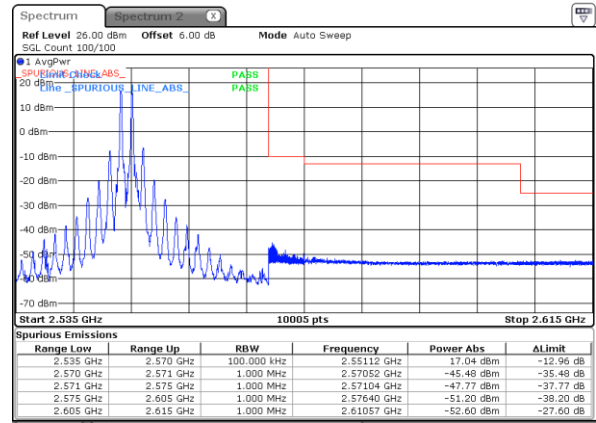
Date: 19,NOV,2024 21:41:29

Lowest Band Edge / 1RB74 and 1RB0



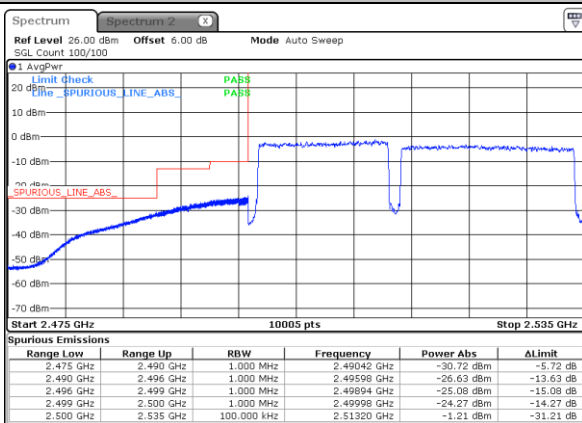
Date: 19,NOV,2024 21:28:38

Highest Band Edge / 1RB74 and 1RB0



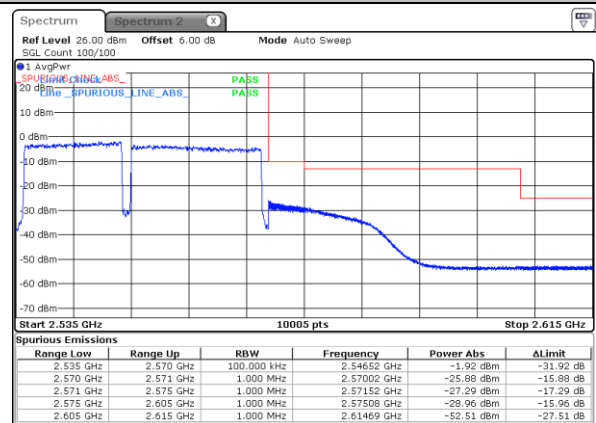
Date: 19,NOV,2024 21:44:59

Lowest Band Edge / Full RB



Date: 19,NOV,2024 21:32:10

Highest Band Edge / Full RB



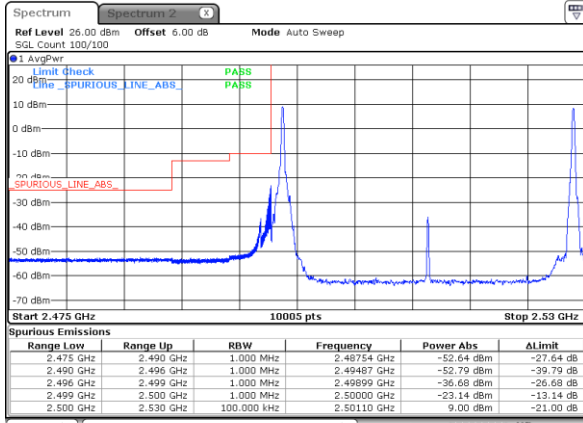
Date: 19,NOV,2024 21:48:30



LTE Band 7 / 20MHz+10MHz

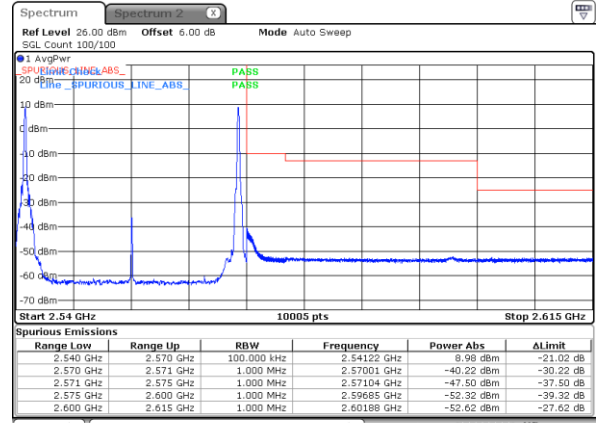
QPSK

Lowest Band Edge / 1RB0 and 1RB74



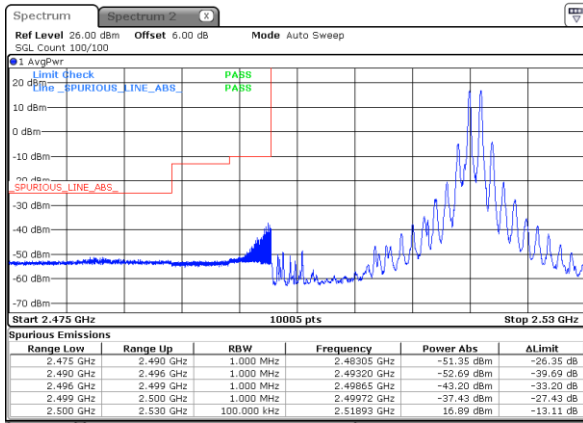
Date: 19,NOV,2024 21:59:04

Highest Band Edge / 1RB0 and 1RB74



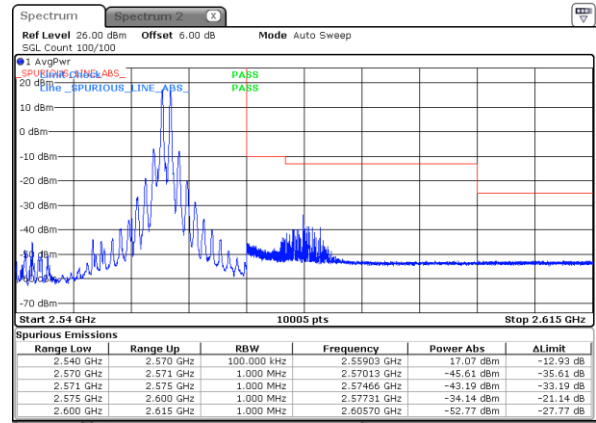
Date: 19,NOV,2024 22:10:03

Lowest Band Edge / 1RB99 and 1RB0



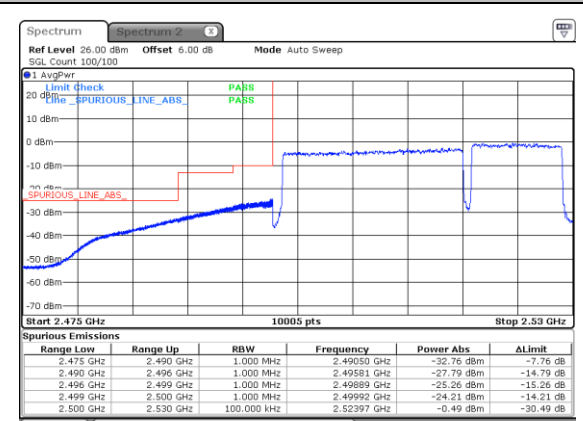
Date: 19,NOV,2024 21:58:35

Highest Band Edge / 1RB99 and 1RB0



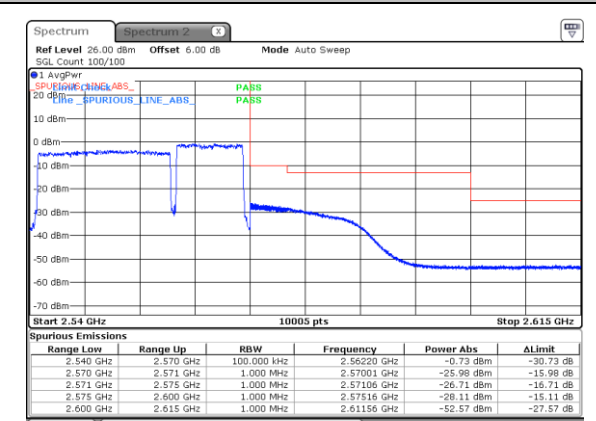
Date: 19,NOV,2024 22:13:34

Lowest Band Edge / Full RB



Date: 19,NOV,2024 22:00:00

Highest Band Edge / Full RB



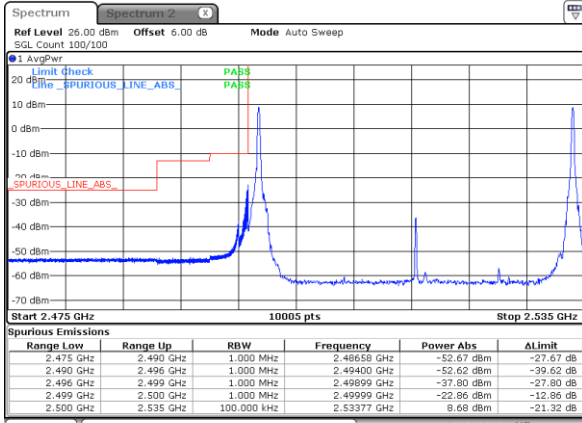
Date: 19,NOV,2024 22:11:00



LTE Band 7 / 20MHz+15MHz

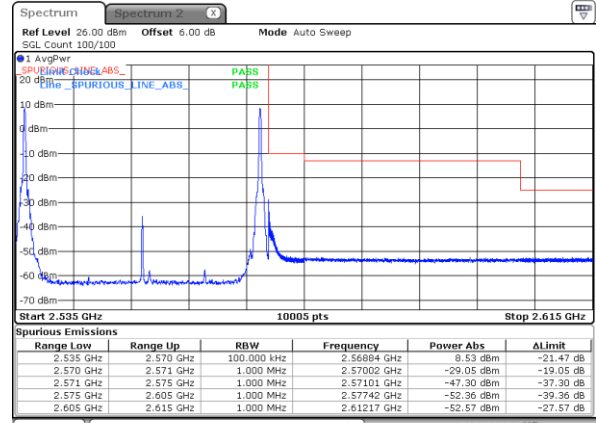
QPSK

Lowest Band Edge / 1RB0 and 1RB74



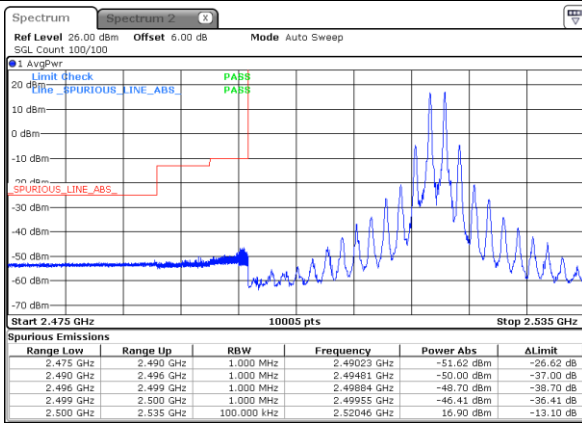
Date: 19,NOV,2024 22:22:13

Highest Band Edge / 1RB0 and 1RB74



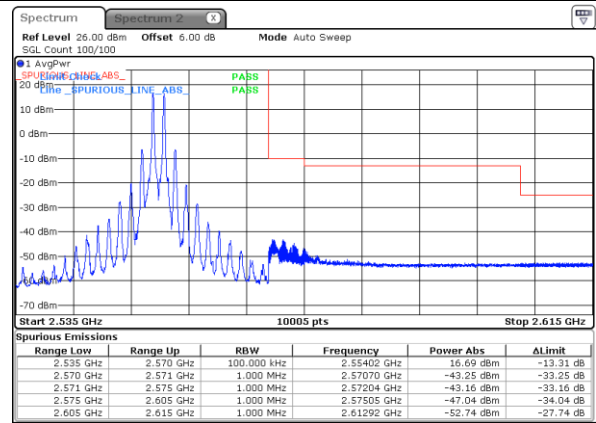
Date: 19,NOV,2024 22:38:03

Lowest Band Edge / 1RB99 and 1RB0



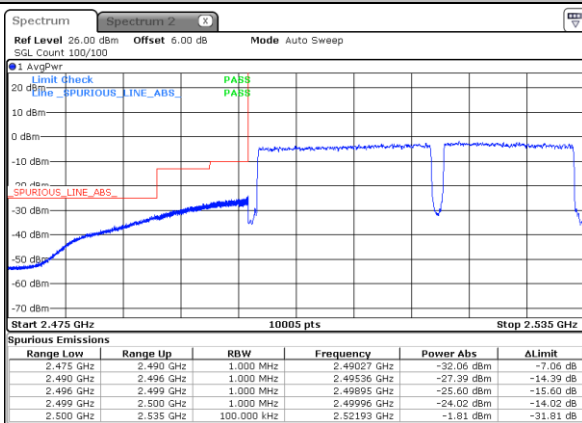
Date: 19,NOV,2024 22:25:45

Highest Band Edge / 1RB99 and 1RB0



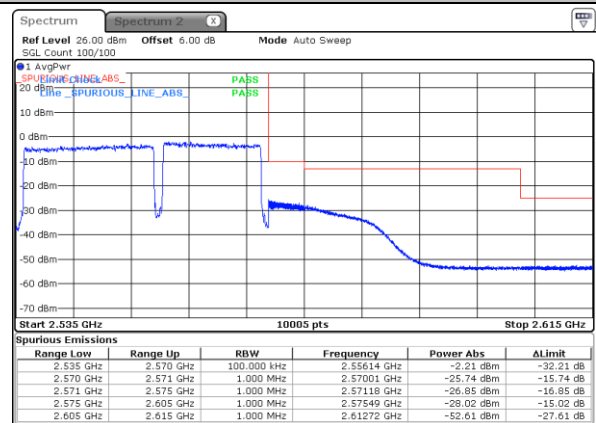
Date: 19,NOV,2024 22:41:33

Lowest Band Edge / Full RB



Date: 19,NOV,2024 22:29:18

Highest Band Edge / Full RB



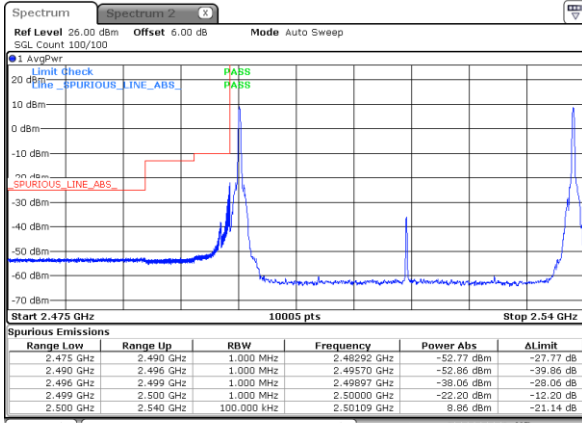
Date: 19,NOV,2024 22:45:04



LTE Band 7 / 20MHz+20MHz

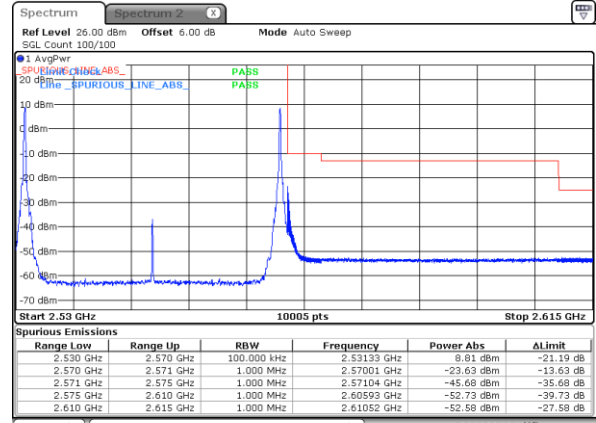
QPSK

Lowest Band Edge / 1RB0 and 1RB99



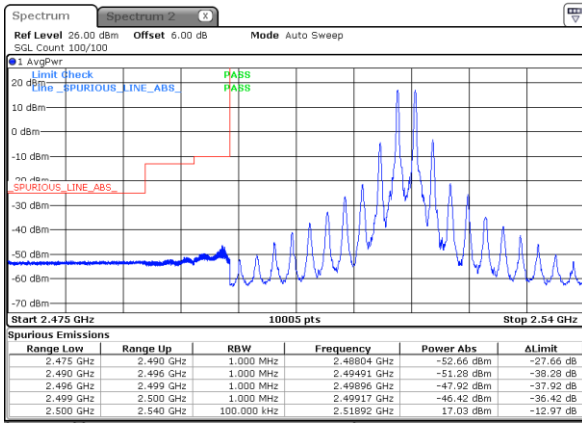
Date: 19,NOV,2024 22:52:15

Highest Band Edge / 1RB0 and 1RB99



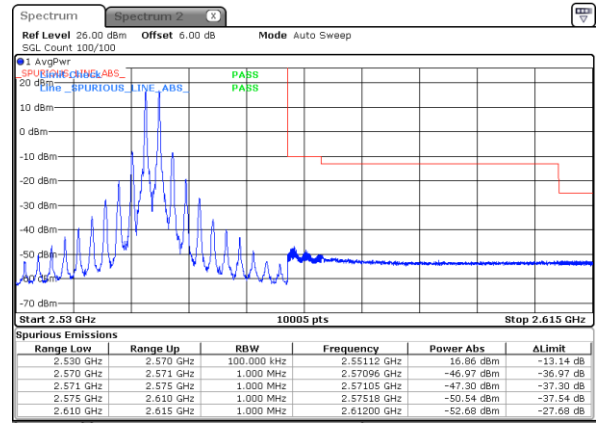
Date: 20,NOV,2024 00:18:44

Lowest Band Edge / 1RB99 and 1RB0



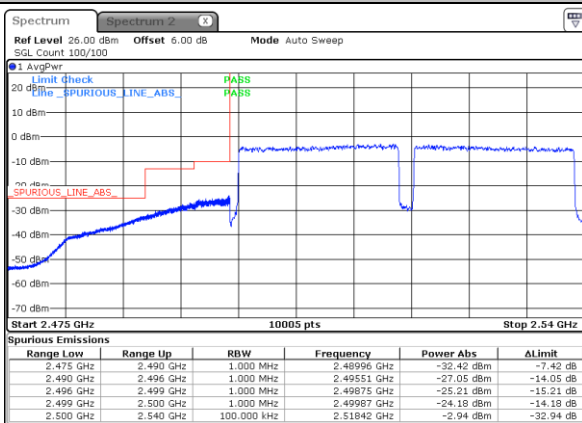
Date: 19,NOV,2024 23:06:51

Highest Band Edge / 1RB99 and 1RB0



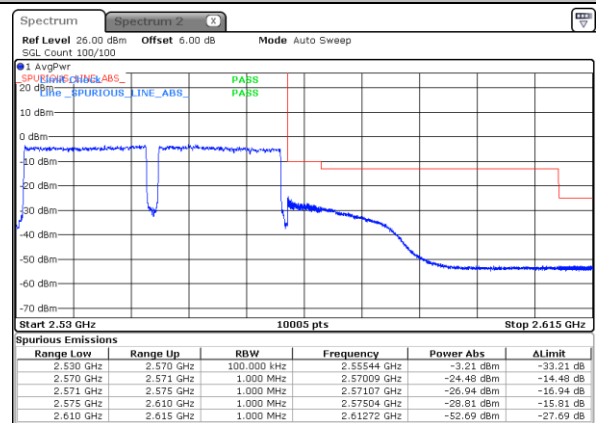
Date: 20,NOV,2024 00:22:13

Lowest Band Edge / Full RB



Date: 19,NOV,2024 23:10:22

Highest Band Edge / Full RB



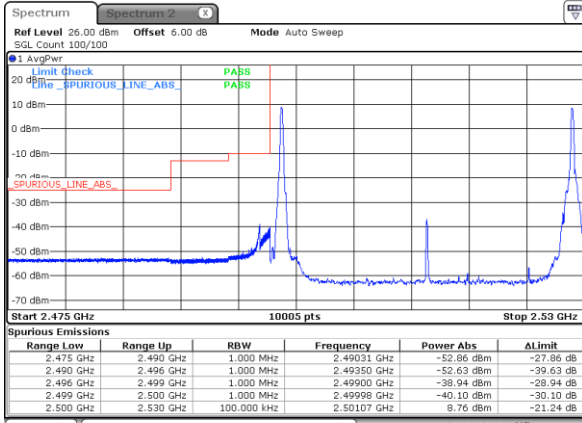
Date: 20,NOV,2024 00:25:46



LTE Band 7 / 10MHz+20MHz

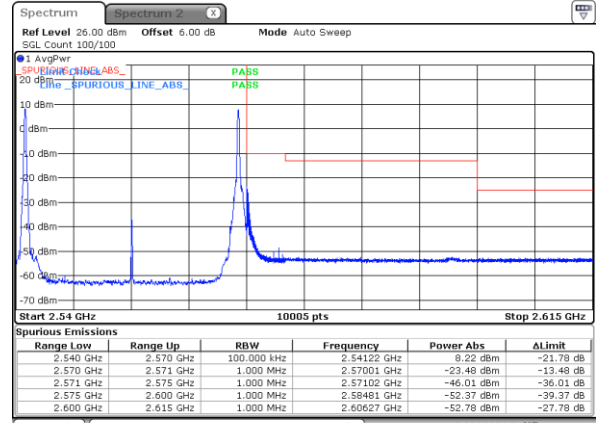
16QAM

Lowest Band Edge / 1RB0 and 1RB99



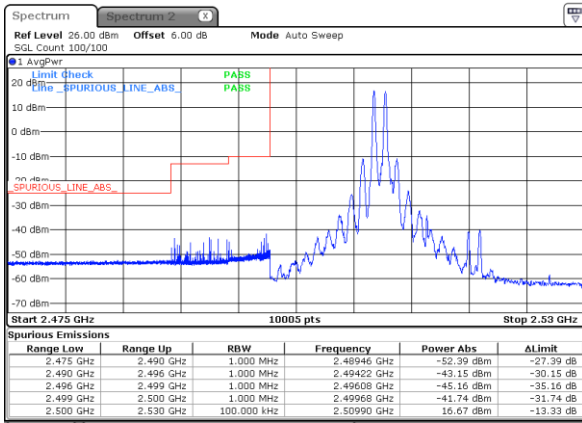
Date: 19,NOV,2024 15:57:31

Highest Band Edge / 1RB0 and 1RB99



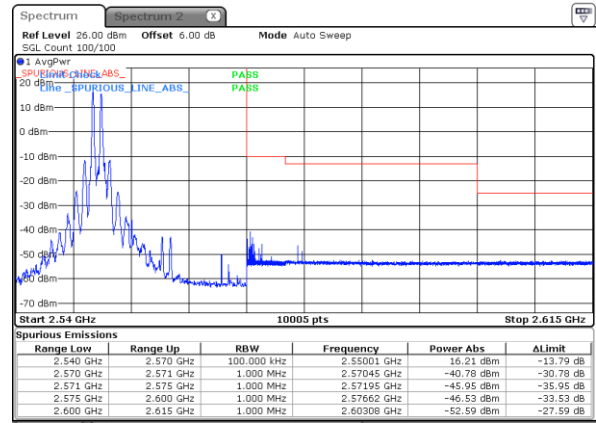
Date: 19,NOV,2024 17:03:04

Lowest Band Edge / 1RB49 and 1RB0



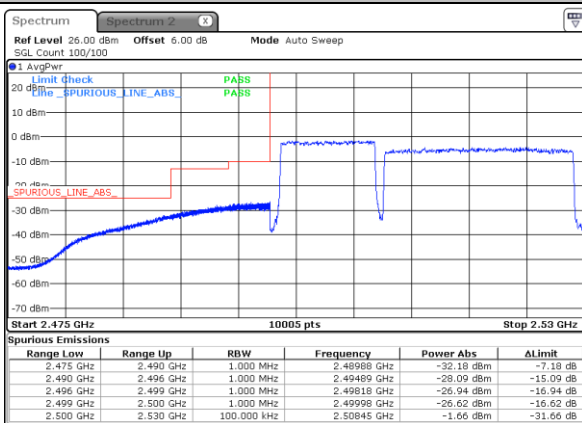
Date: 19,NOV,2024 16:04:50

Highest Band Edge / 1RB49 and 1RB0



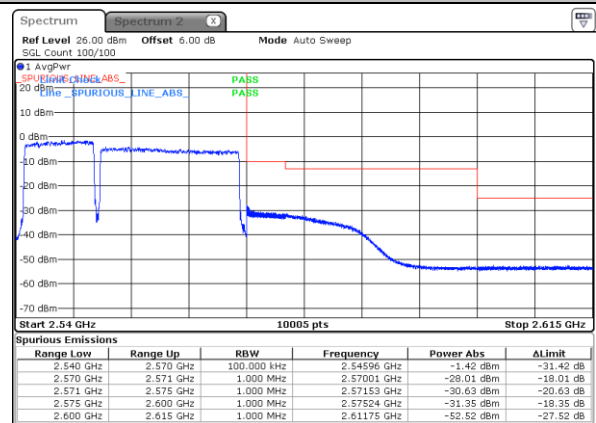
Date: 19,NOV,2024 17:10:22

Lowest Band Edge / Full RB



Date: 19,NOV,2024 16:12:11

Highest Band Edge / Full RB



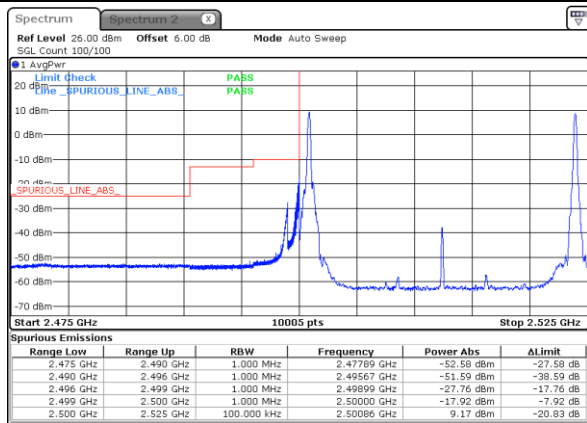
Date: 19,NOV,2024 17:17:41



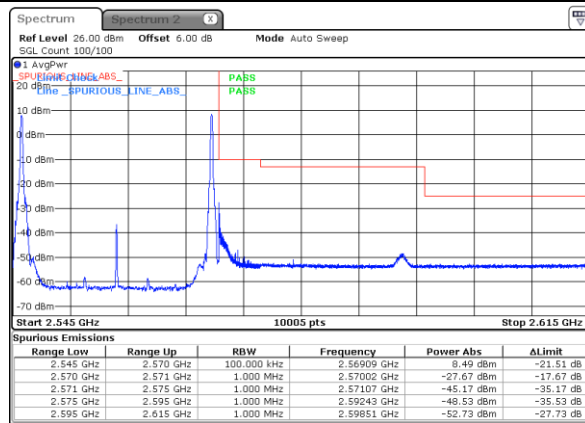
LTE Band 7 / 15MHz+10MHz

16QAM

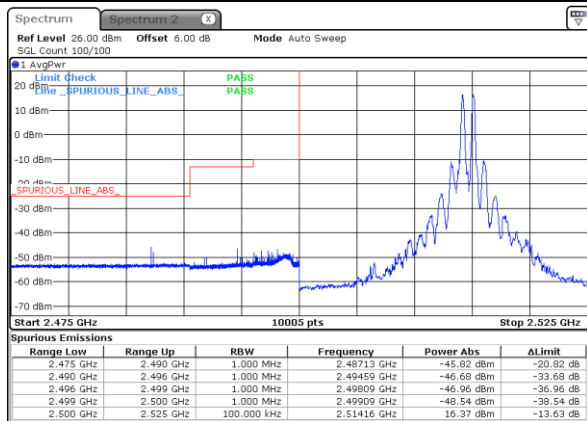
Lowest Band Edge / 1RB0 and 1RB49



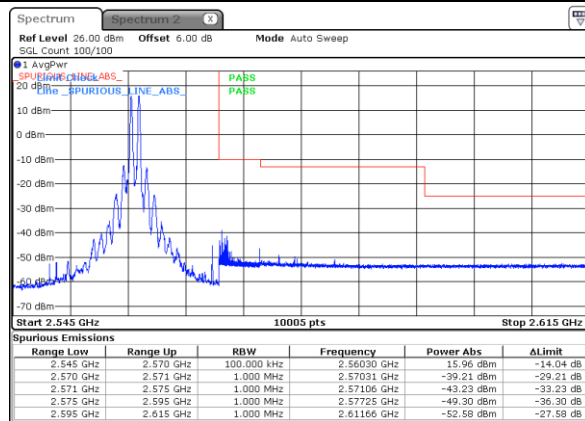
Highest Band Edge / 1RB0 and 1RB49



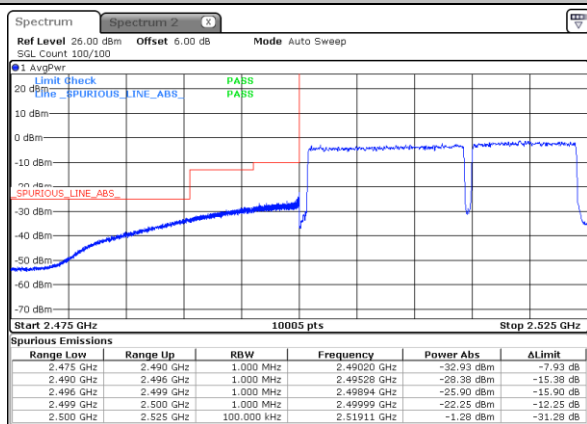
Lowest Band Edge / 1RB74 and 1RB0



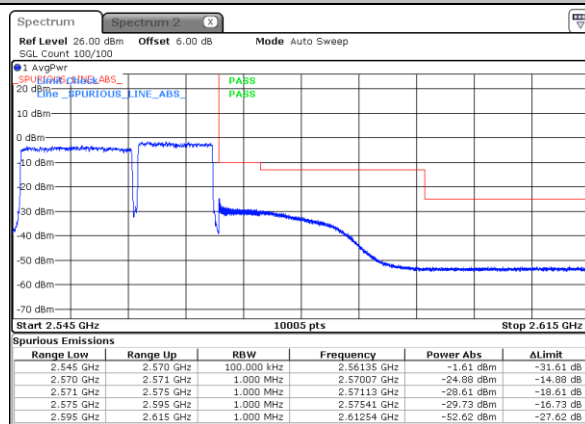
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

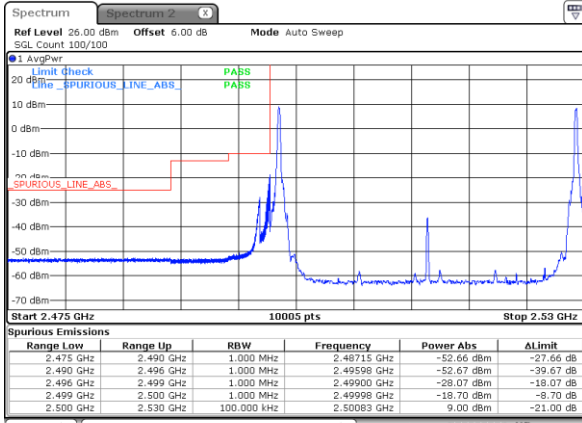




LTE Band 7 / 15MHz+15MHz

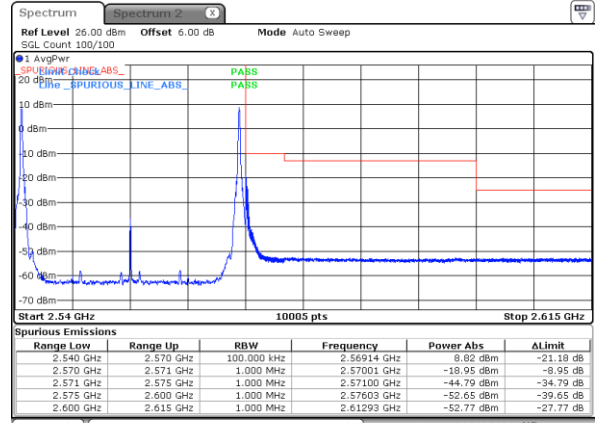
16QAM

Lowest Band Edge / 1RB0 and 1RB74



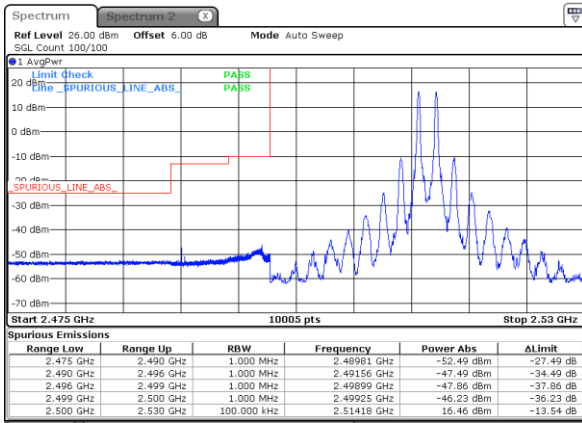
Date: 19,NOV,2024 20:32:07

Highest Band Edge / 1RB0 and 1RB74



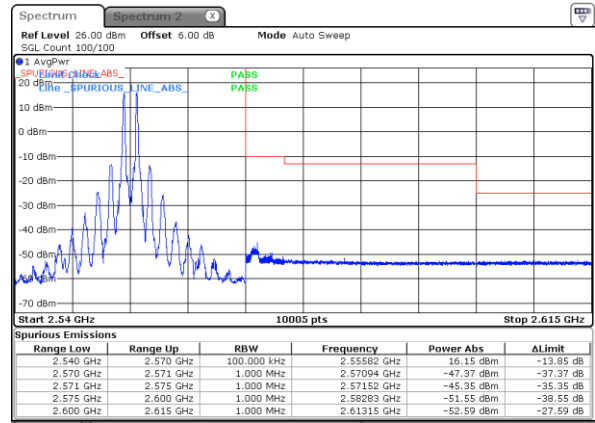
Date: 19,NOV,2024 20:59:28

Lowest Band Edge / 1RB74 and 1RB0



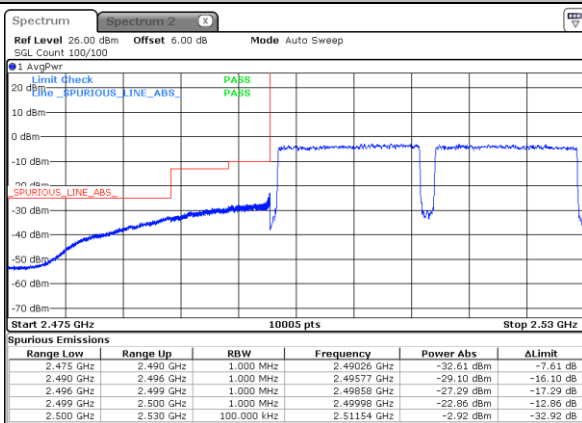
Date: 19,NOV,2024 20:39:22

Highest Band Edge / 1RB74 and 1RB0



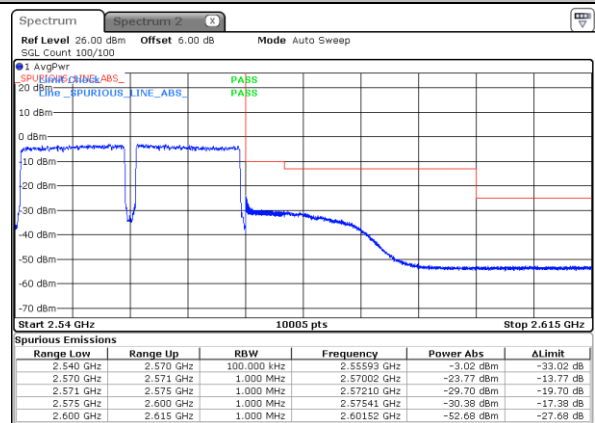
Date: 19,NOV,2024 21:06:42

Lowest Band Edge / Full RB



Date: 19,NOV,2024 20:46:36

Highest Band Edge / Full RB



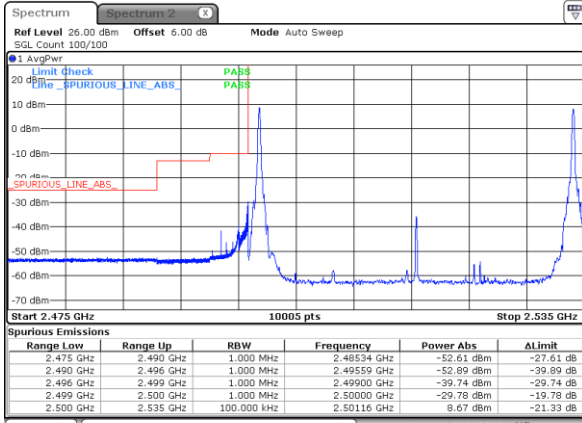
Date: 19,NOV,2024 21:13:55



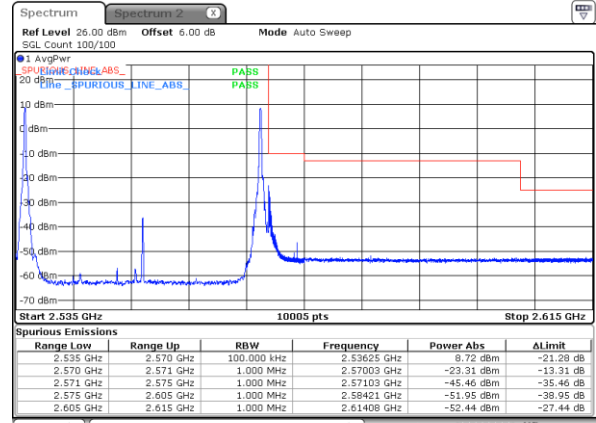
LTE Band 7 / 15MHz+20MHz

16QAM

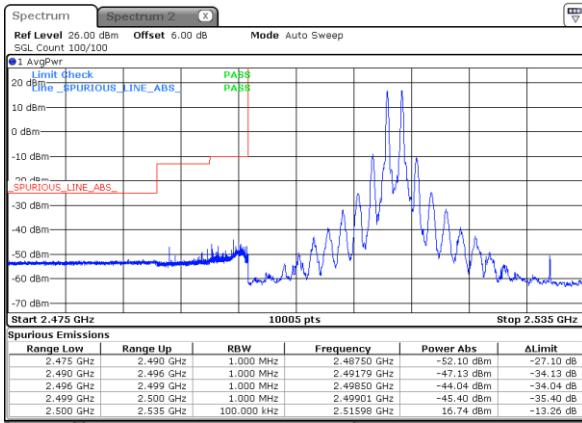
Lowest Band Edge / 1RB0 and 1RB99



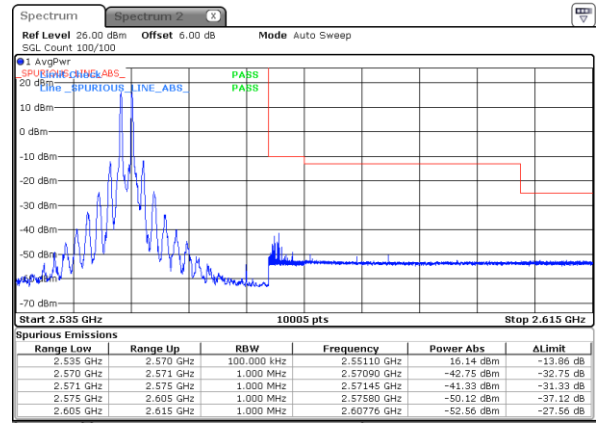
Highest Band Edge / 1RB0 and 1RB99



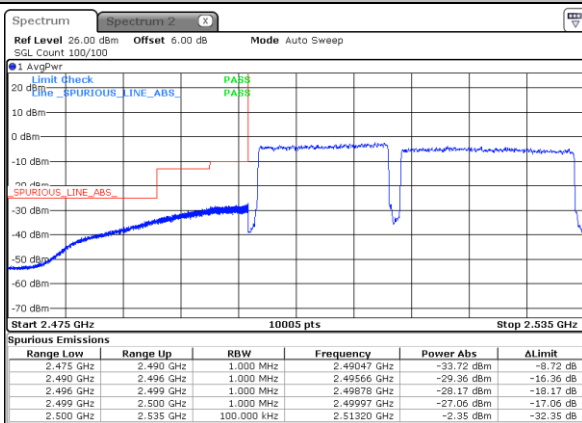
Lowest Band Edge / 1RB74 and 1RB0



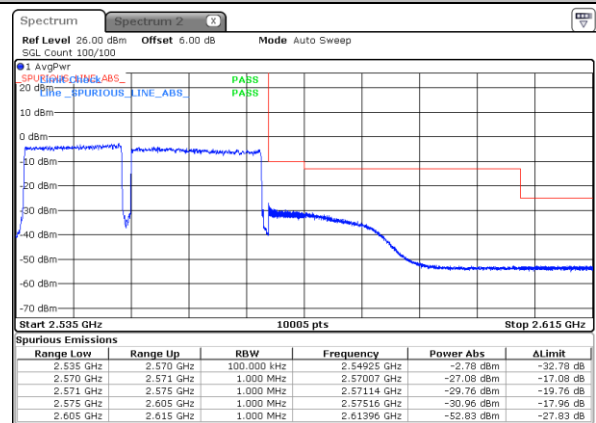
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

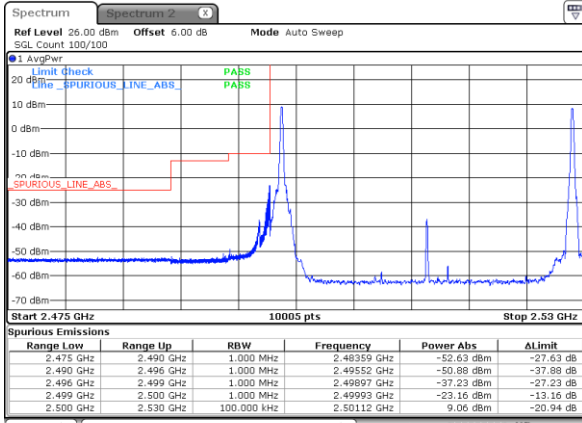




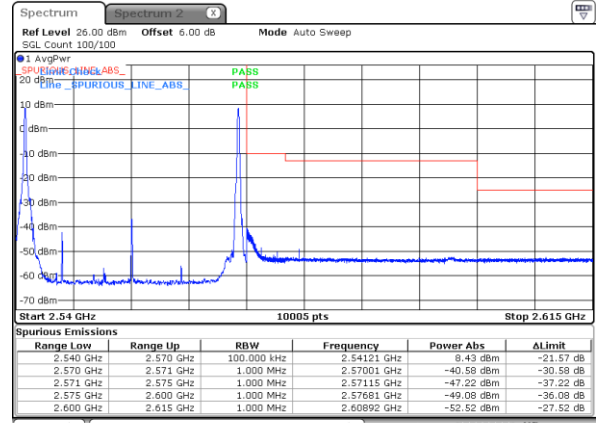
LTE Band 7 / 20MHz+10MHz

16QAM

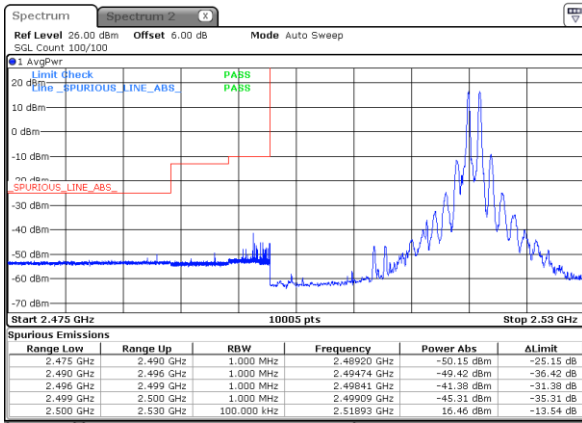
Lowest Band Edge / 1RB0 and 1RB49



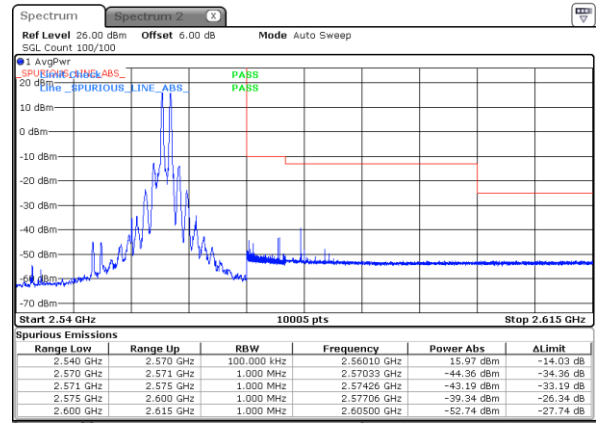
Highest Band Edge / 1RB0 and 1RB49



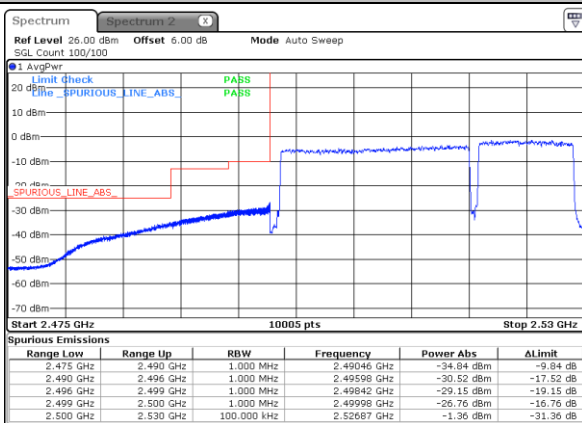
Lowest Band Edge / 1RB99 and 1RB0



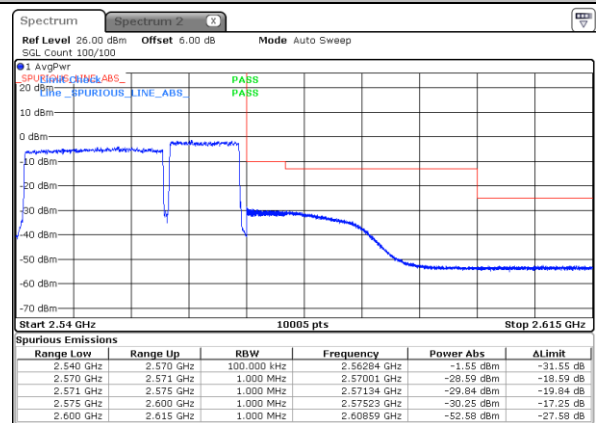
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

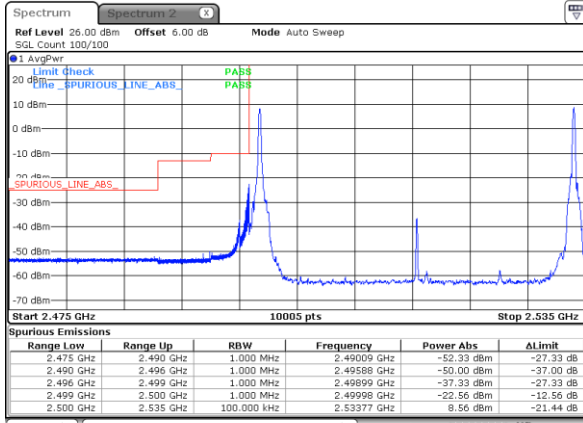




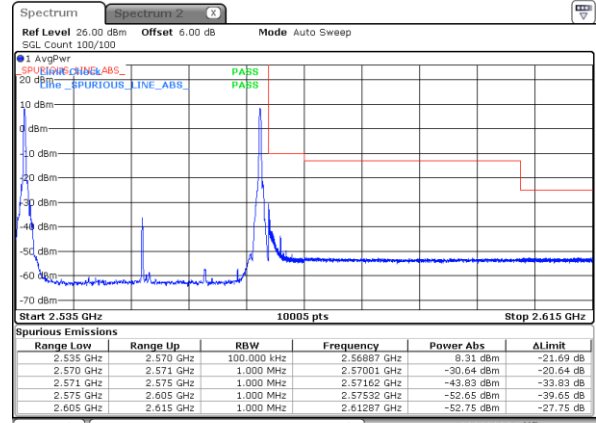
LTE Band 7 / 20MHz+15MHz

16QAM

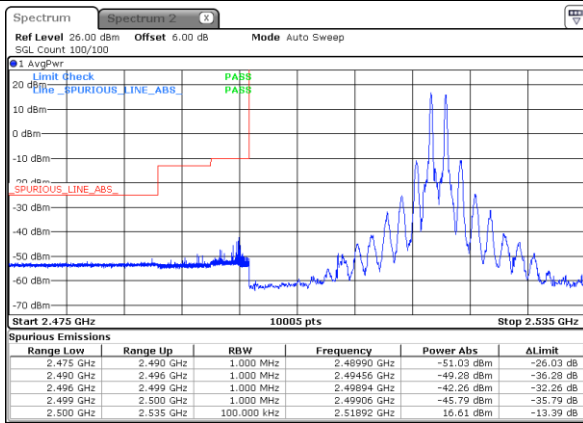
Lowest Band Edge / 1RB0 and 1RB74



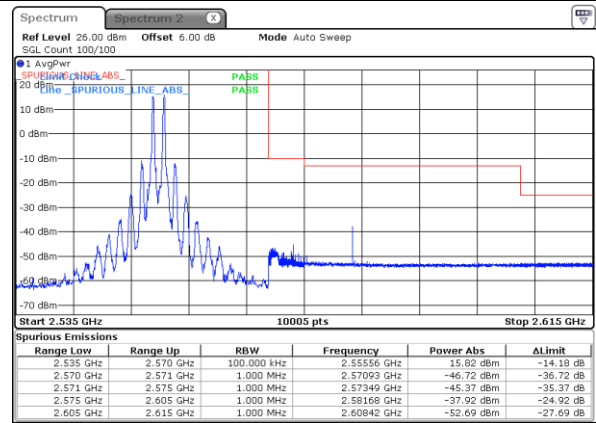
Highest Band Edge / 1RB0 and 1RB74



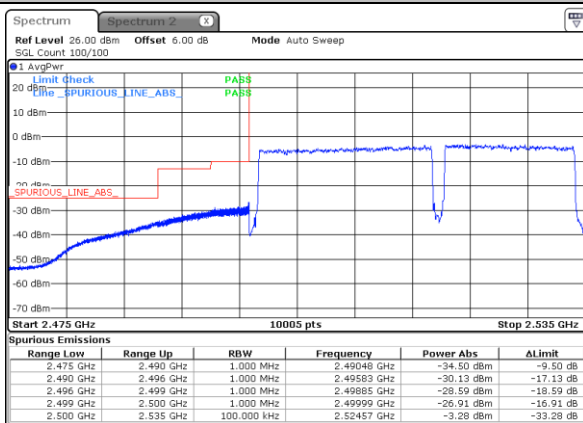
Lowest Band Edge / 1RB99 and 1RB0



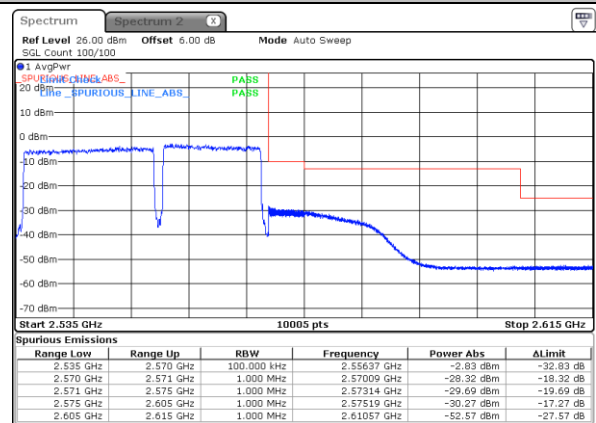
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

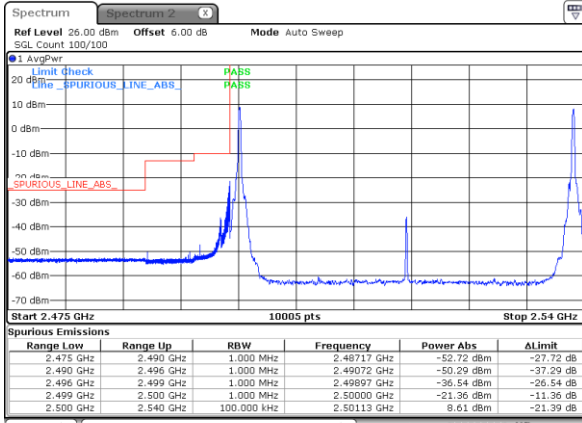




LTE Band 7 / 20MHz+20MHz

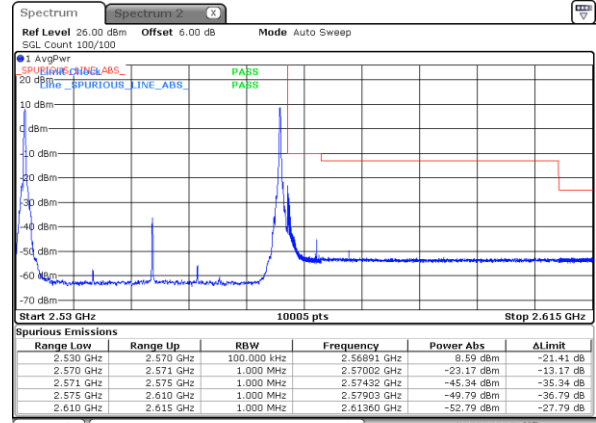
16QAM

Lowest Band Edge / 1RB0 and 1RB99



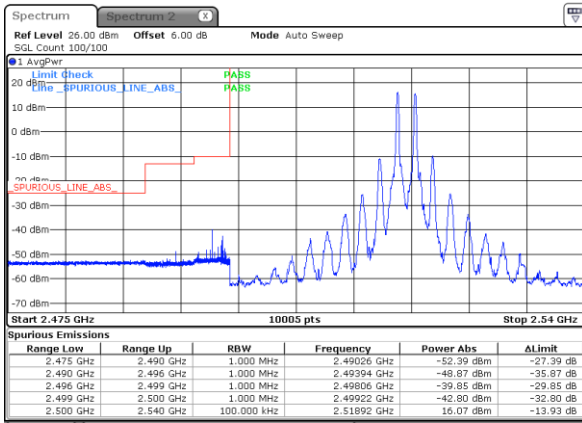
Date: 19,NOV,2024 22:53:44

Highest Band Edge / 1RB0 and 1RB99



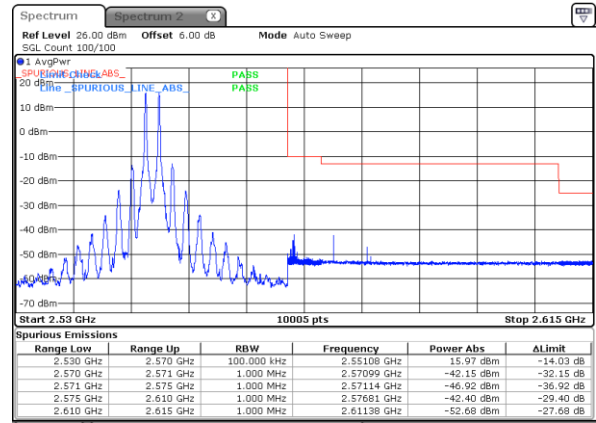
Date: 20,NOV,2024 00:19:36

Lowest Band Edge / 1RB99 and 1RB0



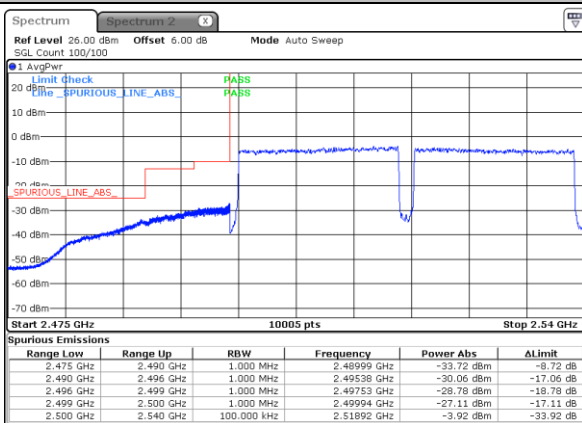
Date: 19,NOV,2024 23:07:43

Highest Band Edge / 1RB99 and 1RB0



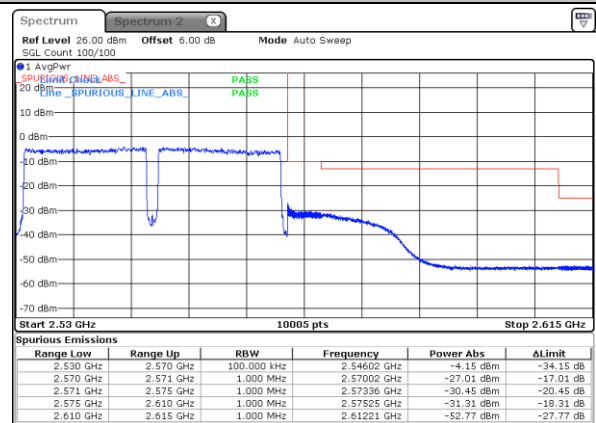
Date: 20,NOV,2024 00:23:06

Lowest Band Edge / Full RB



Date: 19,NOV,2024 23:11:15

Highest Band Edge / Full RB



Date: 20,NOV,2024 00:26:38