

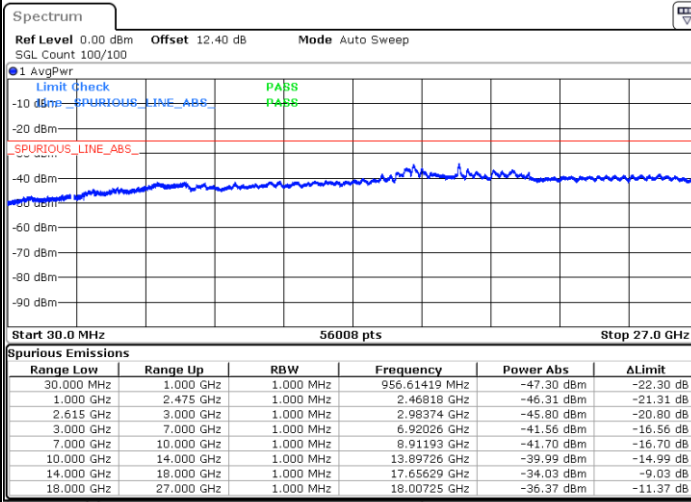


LTE Band 7C / 20MHz+20MHz

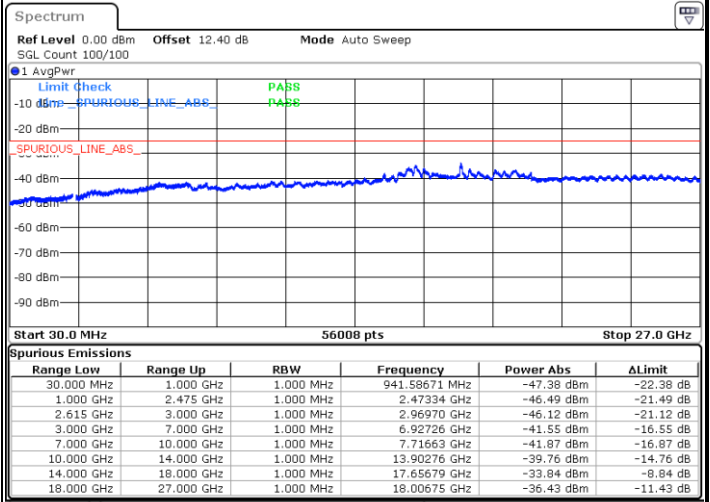
QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



Date: 24.JUN.2025 07:48:53



Date: 24.JUN.2025 07:47:22



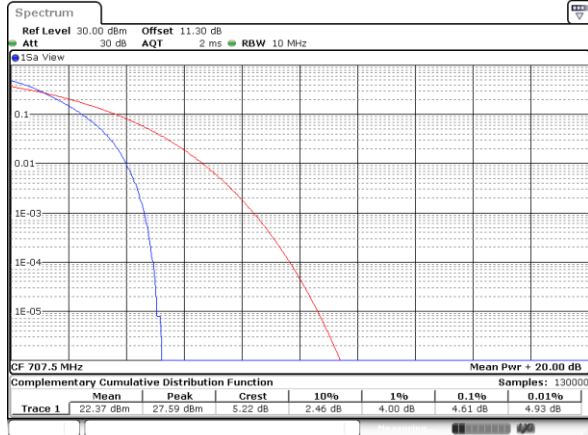
LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.61	5.16	5.71	6.43	PASS

LTE Band 12 / 10MHz / QPSK

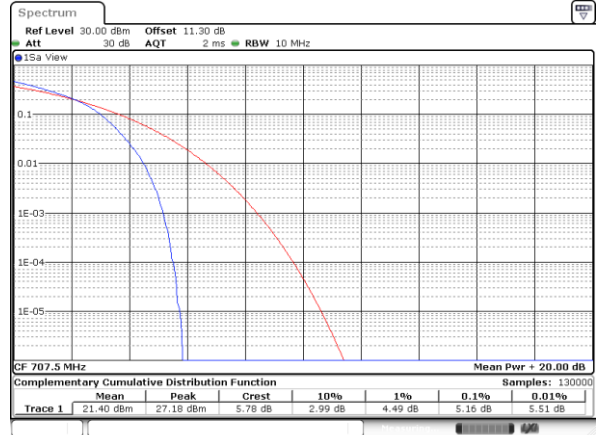
Middle Channel / Full RB



Date: 3.JUN.2025 01:24:04

LTE Band 12 / 10MHz / 16QAM

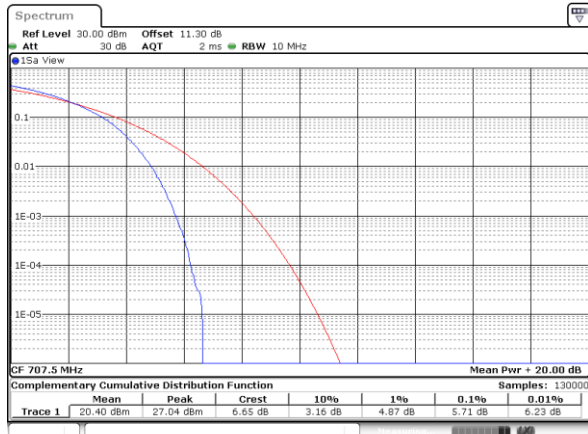
Middle Channel / Full RB



Date: 3.JUN.2025 01:24:27

LTE Band 12 / 10MHz / 64QAM

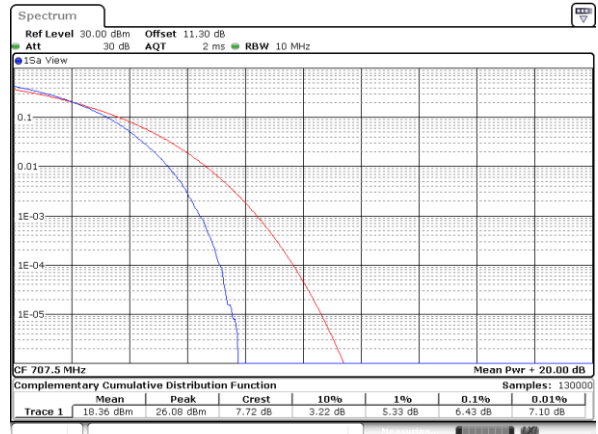
Middle Channel / Full RB



Date: 3.JUN.2025 01:24:51

LTE Band 12 / 10MHz / 256QAM

Middle Channel / Full RB



Date: 3.JUN.2025 01:25:15

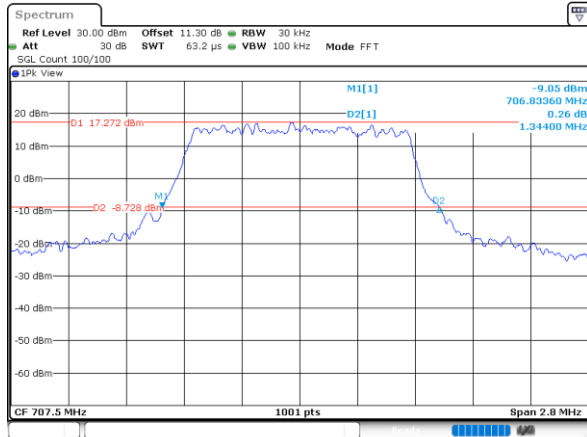
**26dB Bandwidth**

Mode	LTE Band 12 : 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	1.34	1.32	3.09	3.08	5.07	5.15	9.76	9.84	-	-	-	-
Mode	LTE Band 12 : 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	1.29	1.33	3.15	3.07	4.85	5.03	9.66	9.94	-	-	-	-



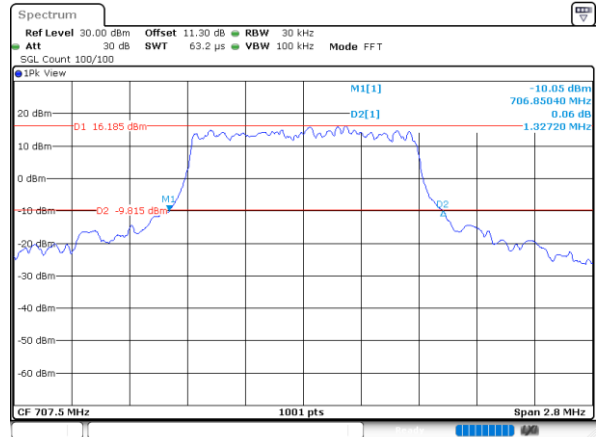
LTE Band 12

Middle Channel / 1.4MHz / QPSK



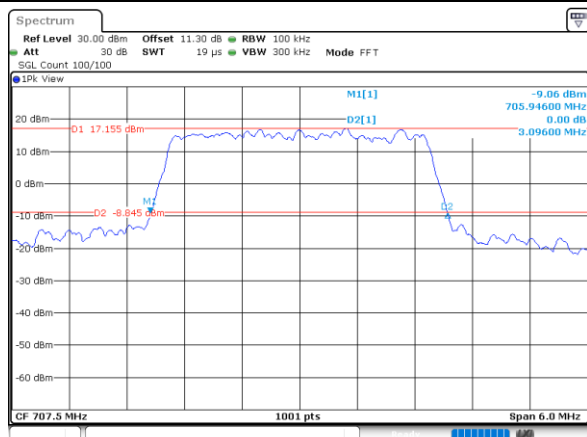
Date: 3.JUN.2025 00:56:51

Middle Channel / 1.4MHz / 16QAM



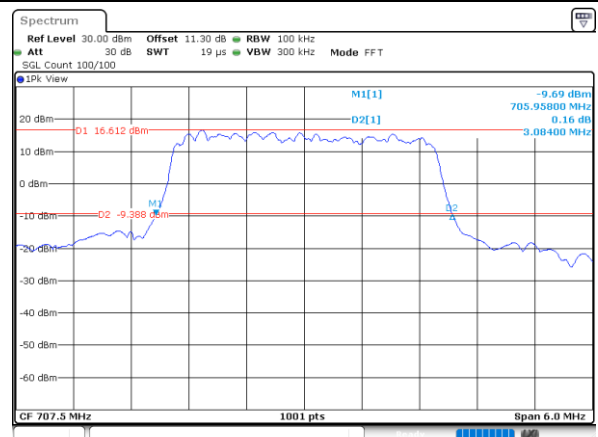
Date: 3.JUN.2025 00:57:14

Middle Channel / 3MHz / QPSK



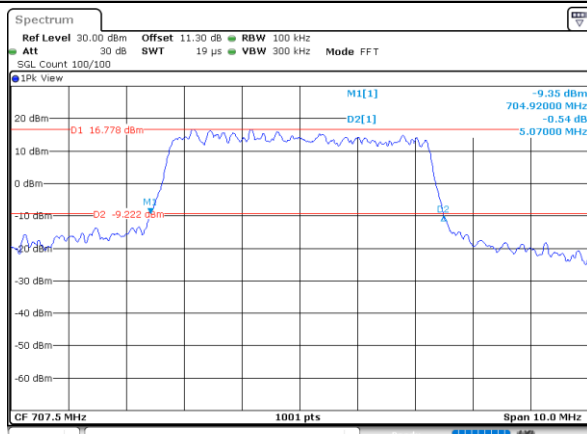
Date: 25.JUN.2025 02:20:23

Middle Channel / 3MHz / 16QAM



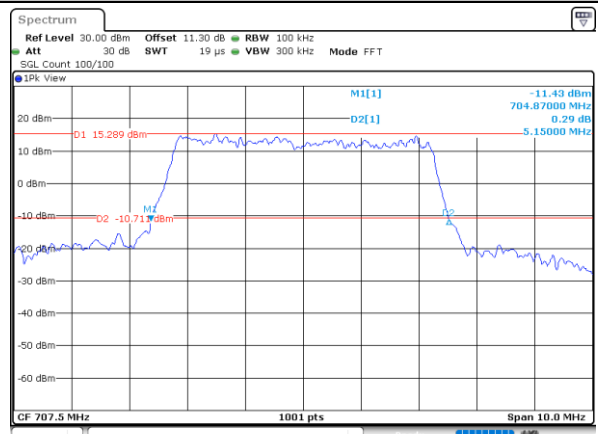
Date: 25.JUN.2025 02:20:45

Middle Channel / 5MHz / QPSK



Date: 3.JUN.2025 01:04:24

Middle Channel / 5MHz / 16QAM

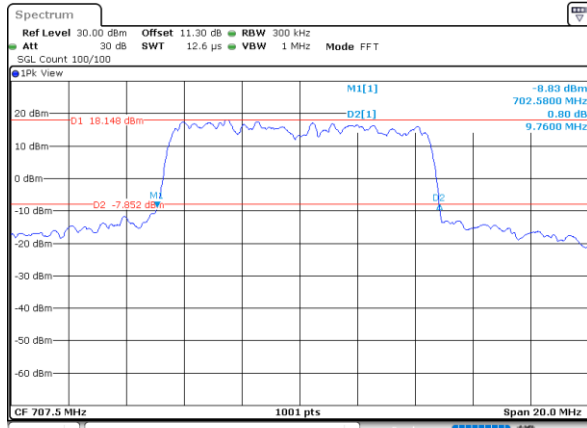


Date: 3.JUN.2025 01:04:46

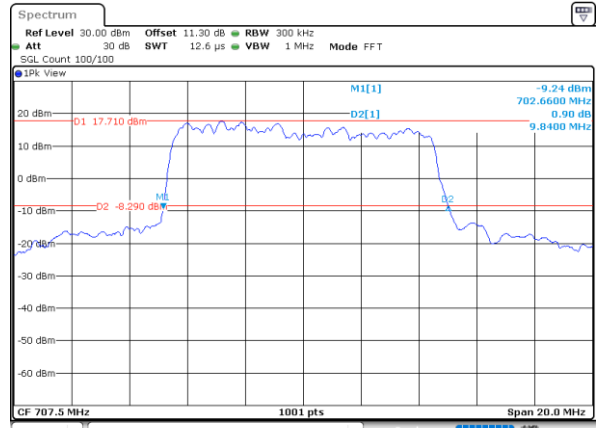


LTE Band 12

Middle Channel / 10MHz / QPSK

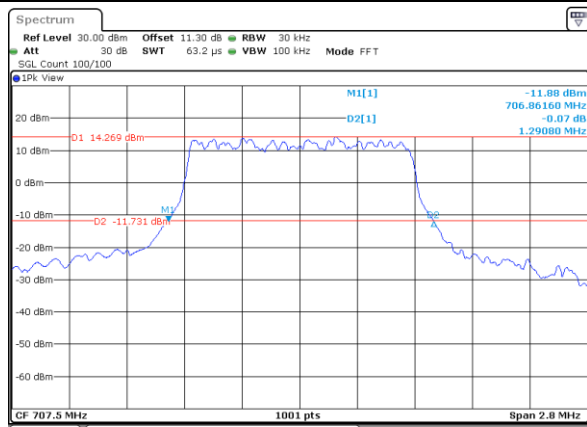


Middle Channel / 10MHz / 16QAM

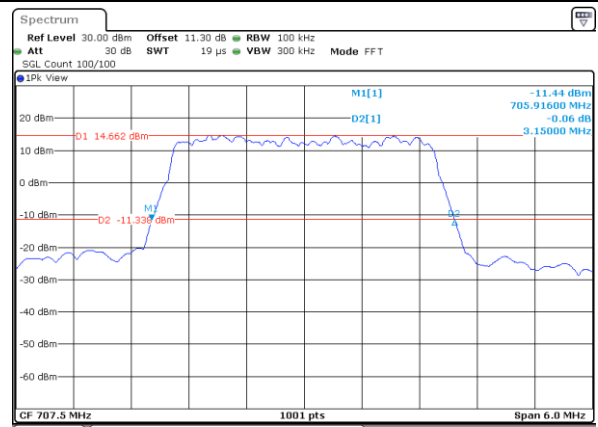


LTE Band 12

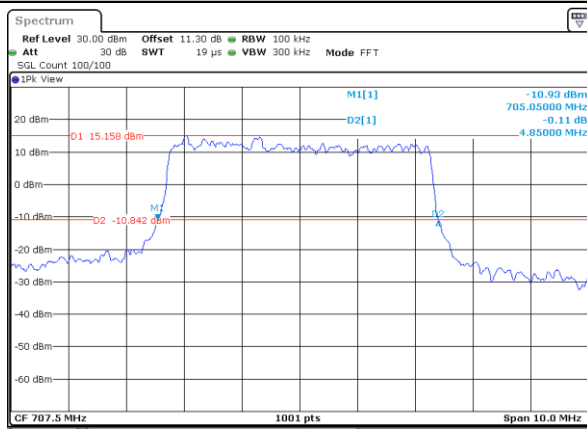
Middle Channel / 1.4MHz / 64QAM



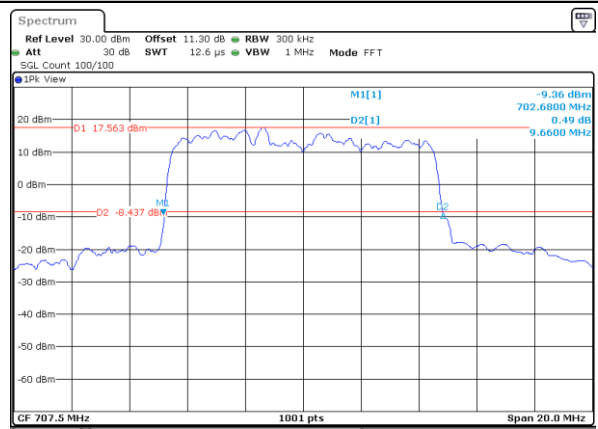
Middle Channel / 3MHz / 64QAM



Middle Channel / 5MHz / 64QAM



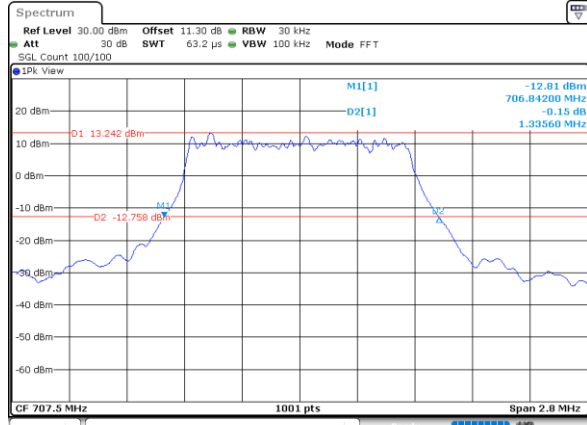
Middle Channel / 10MHz / 64QAM



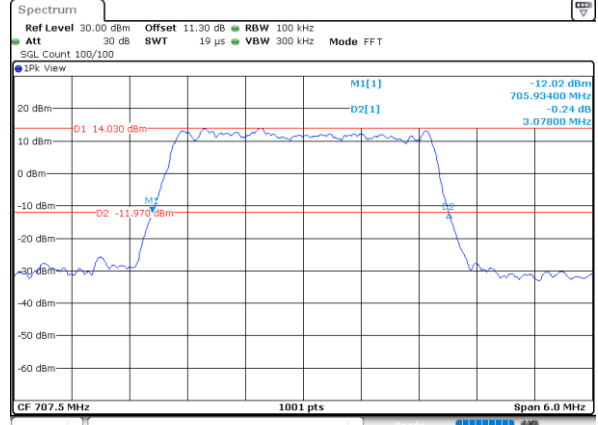


LTE Band 12

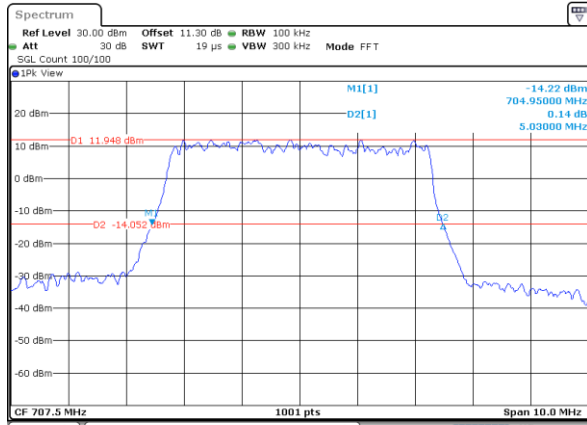
Middle Channel / 1.4MHz / 256QAM



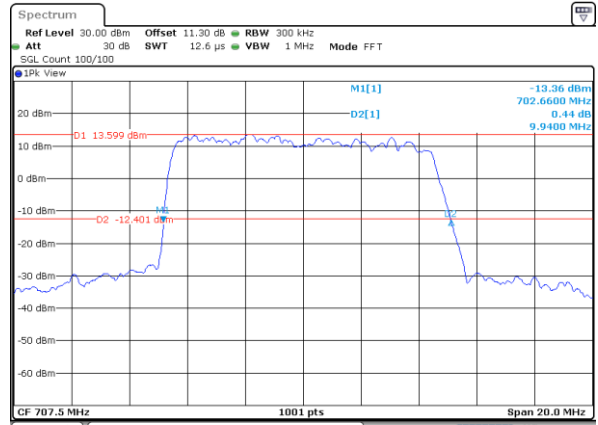
Middle Channel / 3MHz / 256QAM



Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM



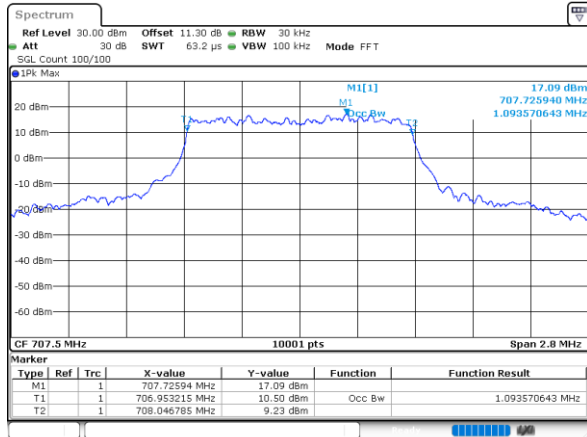
**Occupied Bandwidth**

Mode	LTE Band 12 : 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	1.09	1.09	2.72	2.75	4.50	4.50	9.02	9.07	-	-	-	-
Mode	LTE Band 12 : 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	1.09	1.09	2.75	2.73	4.49	4.51	9.05	8.96	-	-	-	-

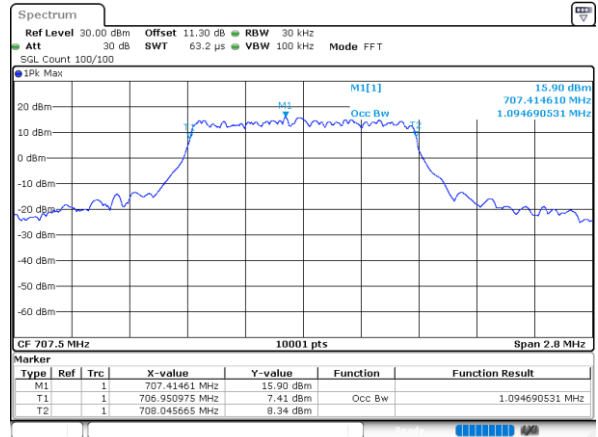


LTE Band 12

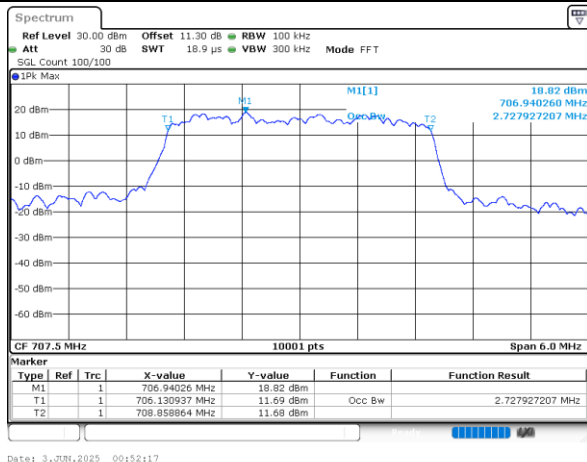
Middle Channel / 1.4MHz / QPSK



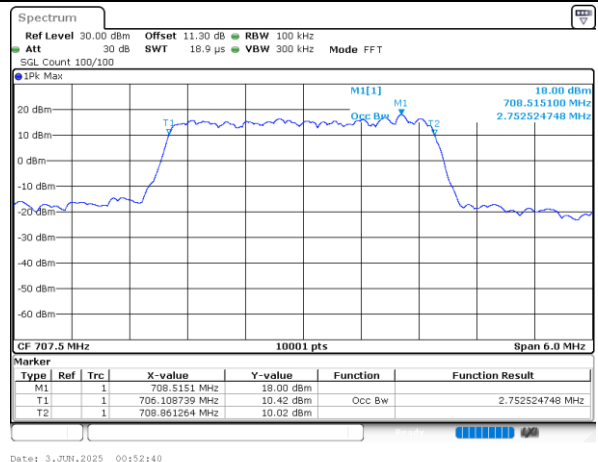
Middle Channel / 1.4MHz / 16QAM



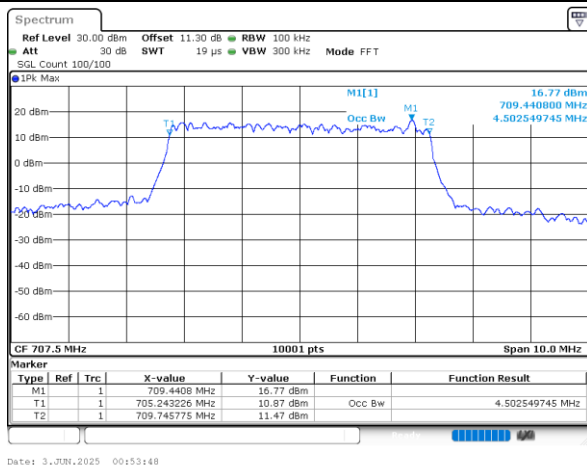
Middle Channel / 3MHz / QPSK



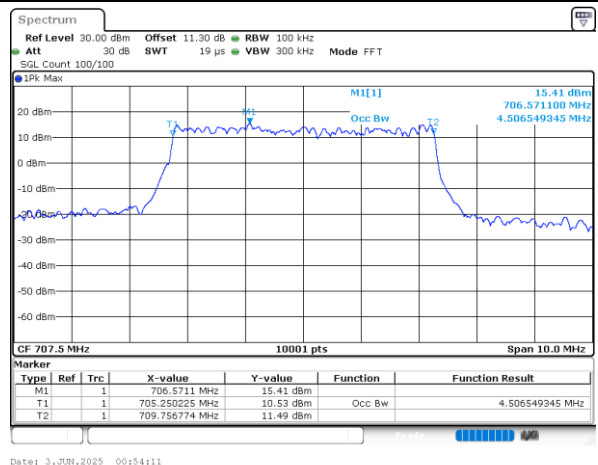
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



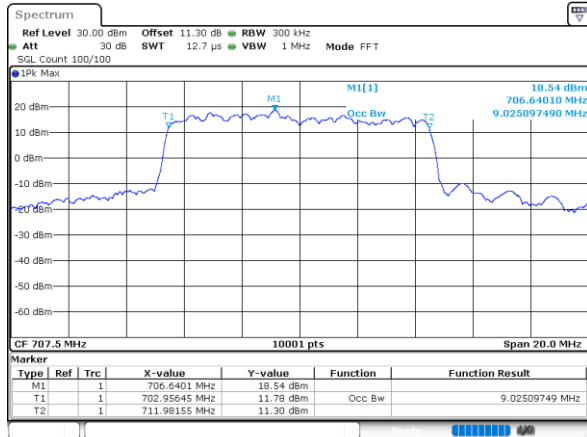
Middle Channel / 5MHz / 16QAM



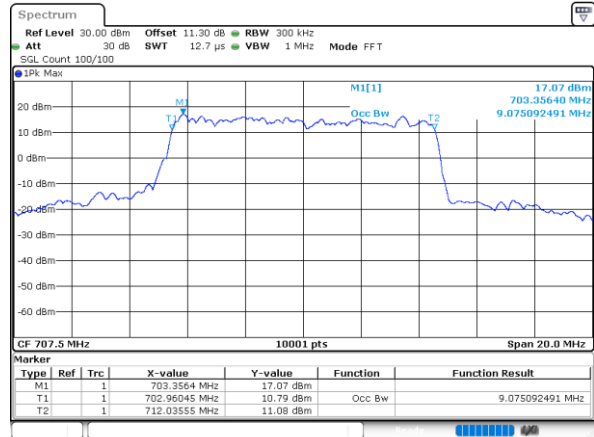


LTE Band 12

Middle Channel / 10MHz / QPSK

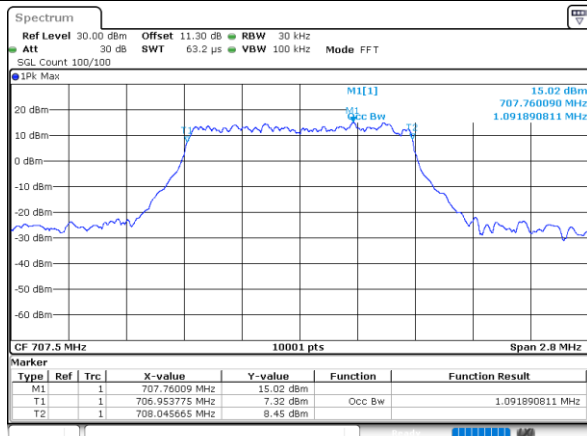


Middle Channel / 10MHz / 16QAM

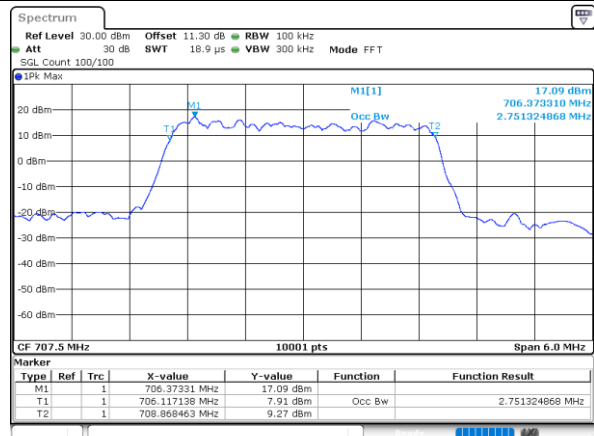


LTE Band 12

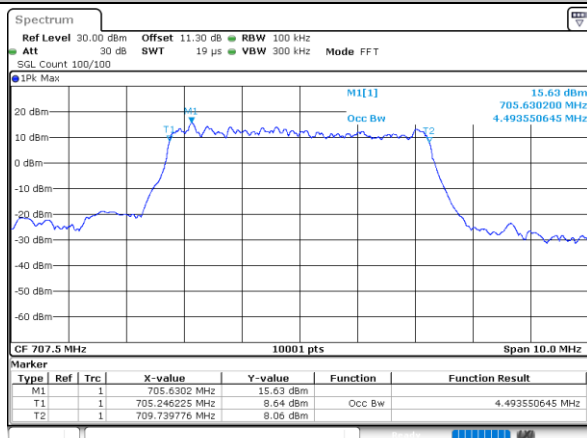
Middle Channel / 1.4MHz / 64QAM



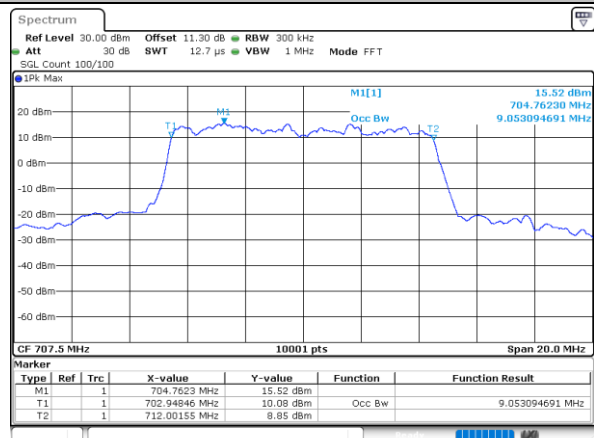
Middle Channel / 3MHz / 64QAM



Middle Channel / 5MHz / 64QAM



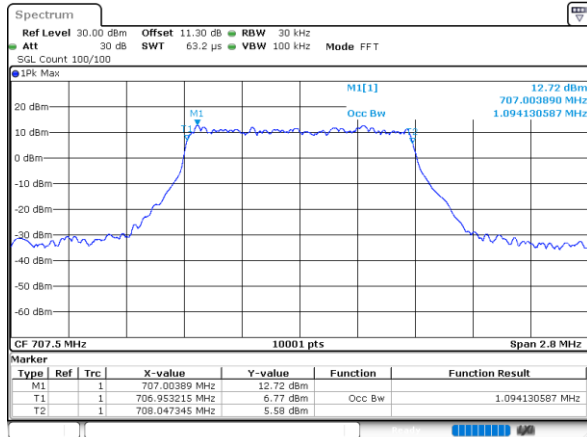
Middle Channel / 10MHz / 64QAM



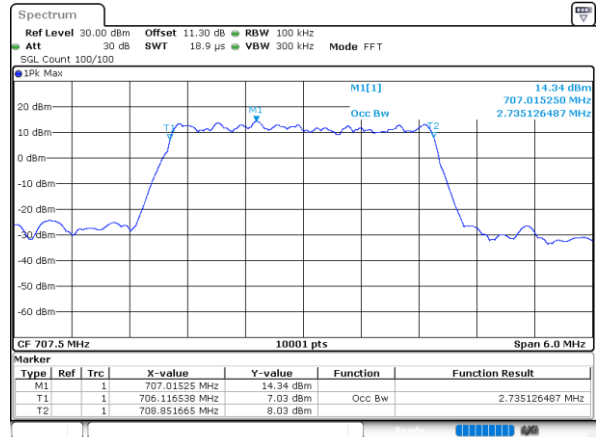


LTE Band 12

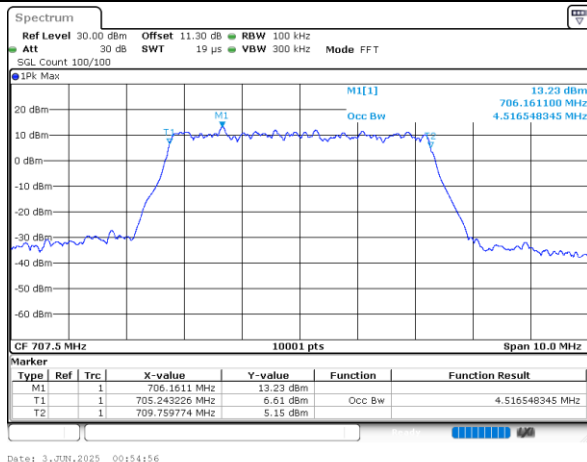
Middle Channel / 1.4MHz / 256QAM



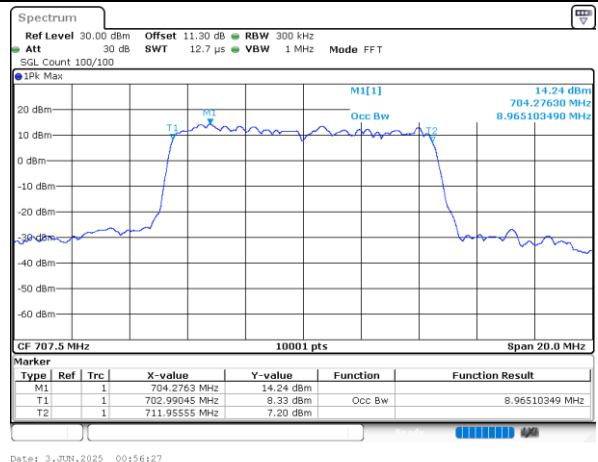
Middle Channel / 3MHz / 256QAM



Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM

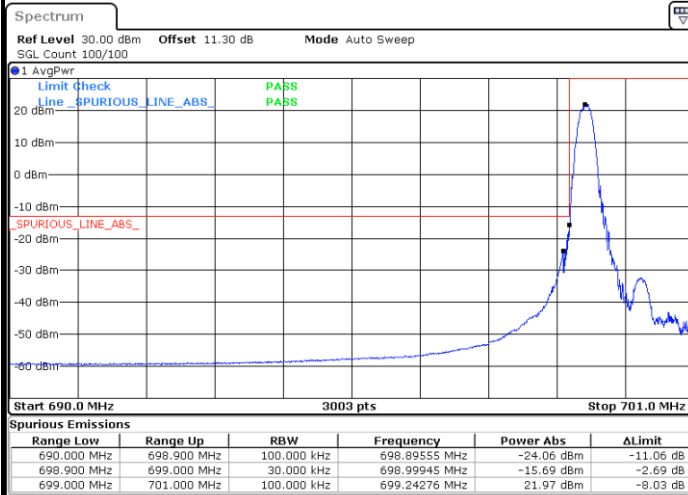




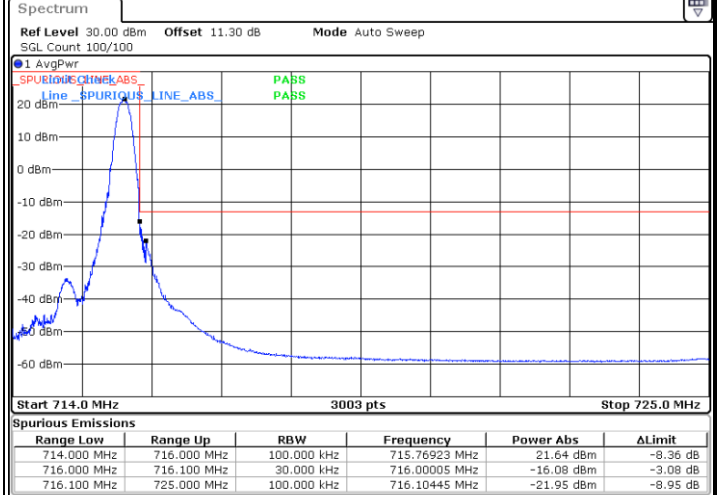
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

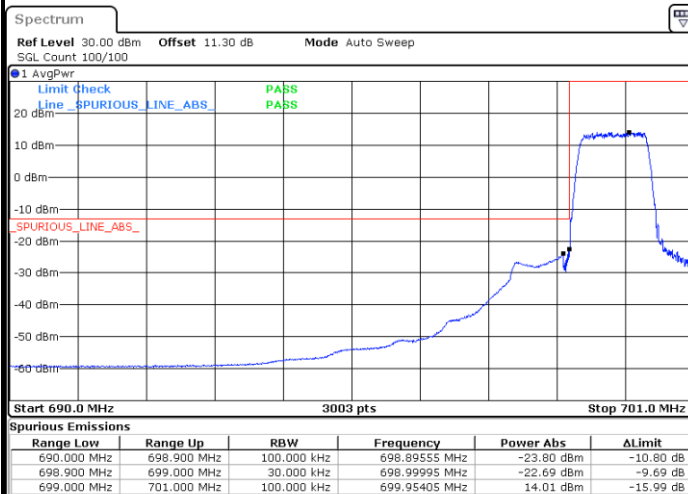
Lowest Band Edge / 1RB



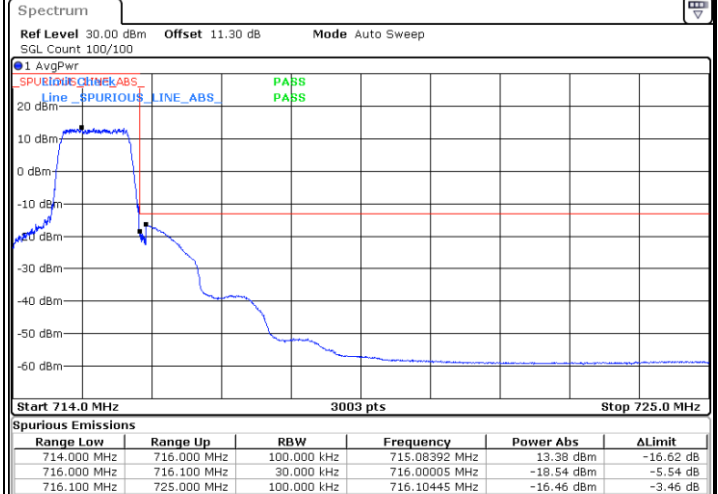
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



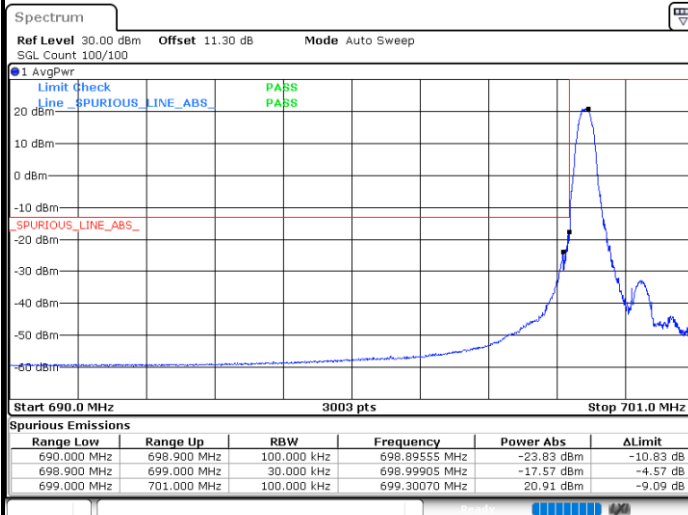
Highest Band Edge / Full RB



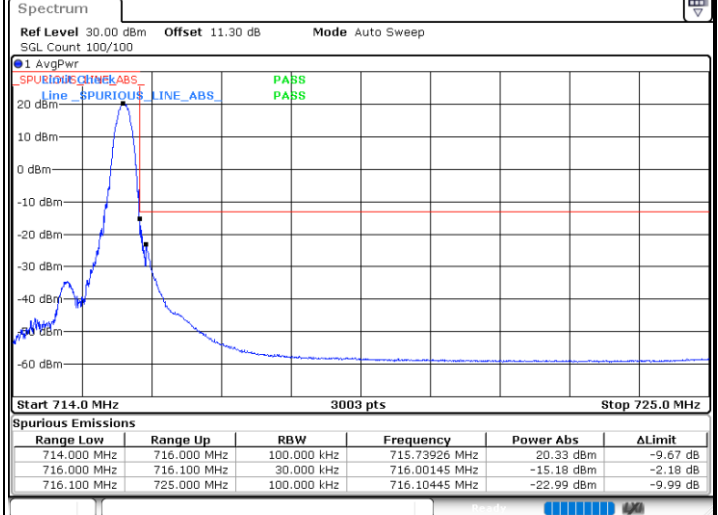


LTE Band 12 / 1.4MHz / 16QAM

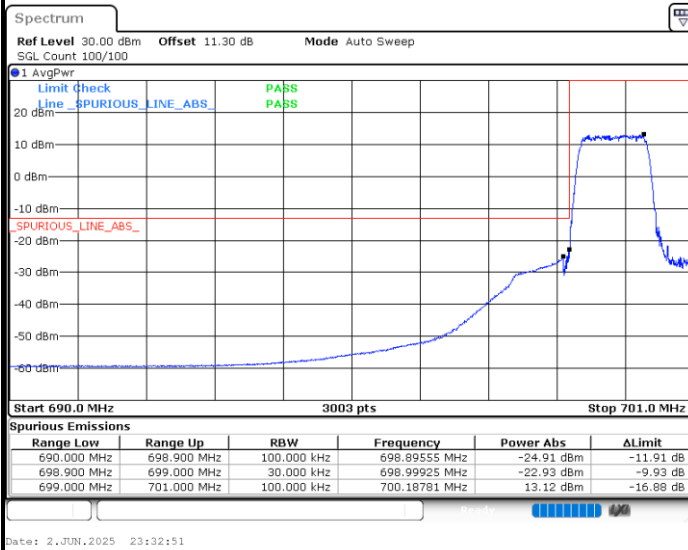
Lowest Band Edge / 1 RB



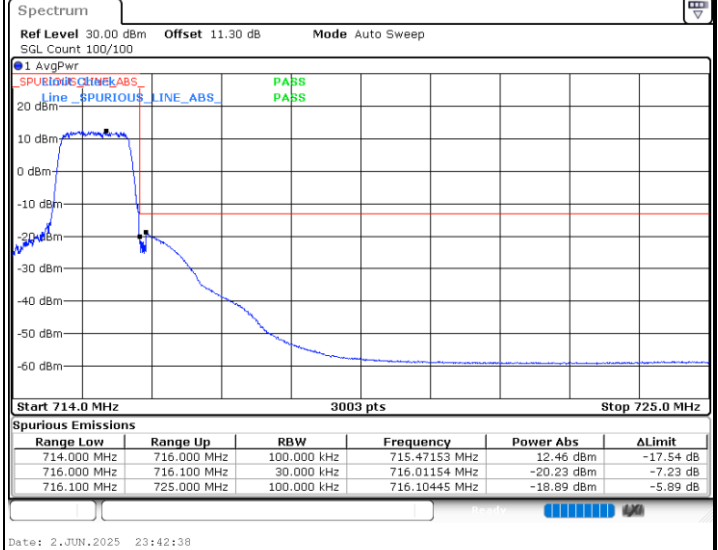
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



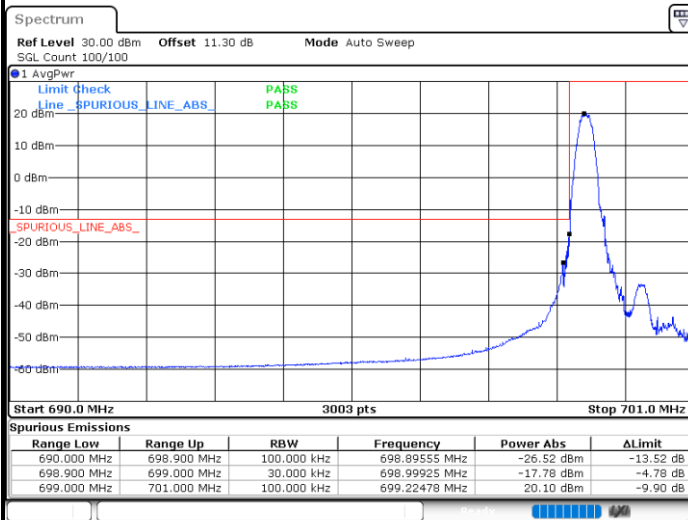
Highest Band Edge / Full RB



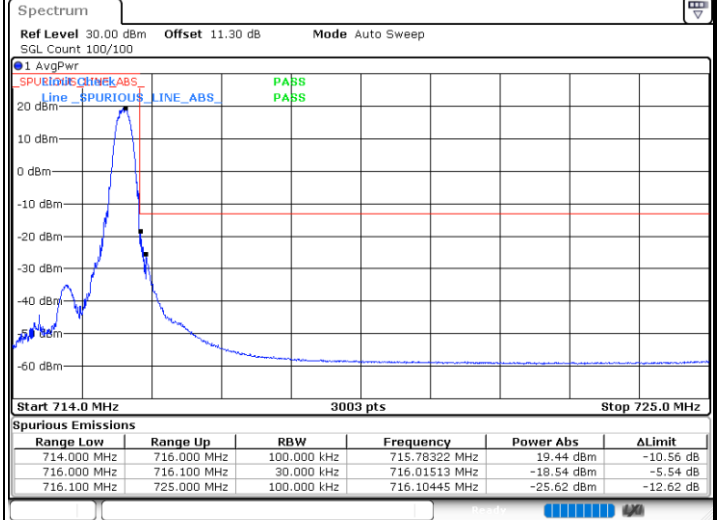


LTE Band 12 / 1.4MHz / 64QAM

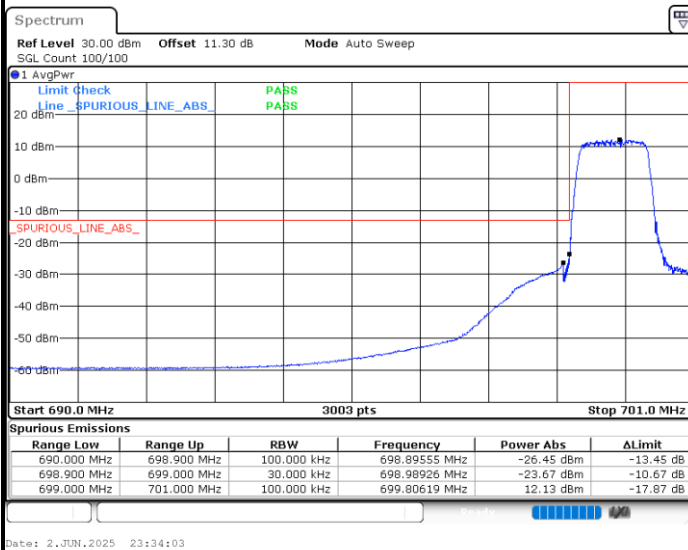
Lowest Band Edge / 1 RB



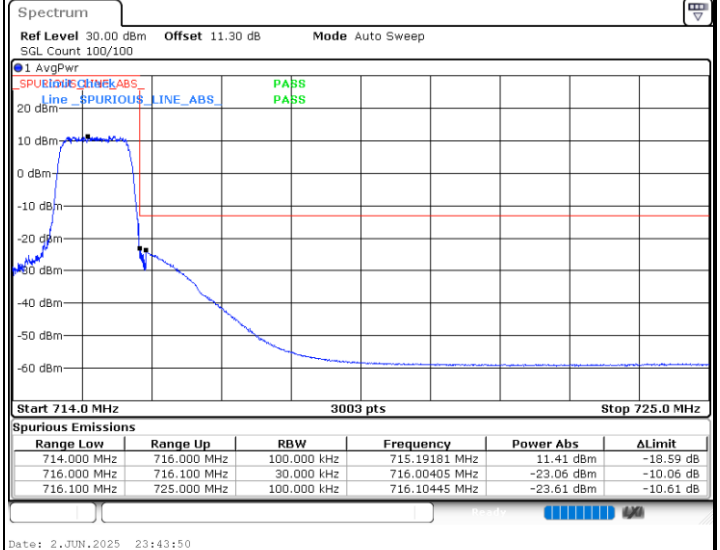
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



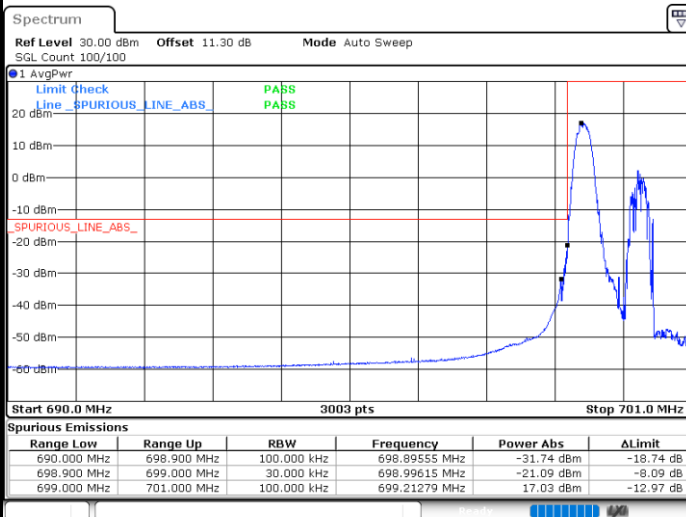
Highest Band Edge / Full RB



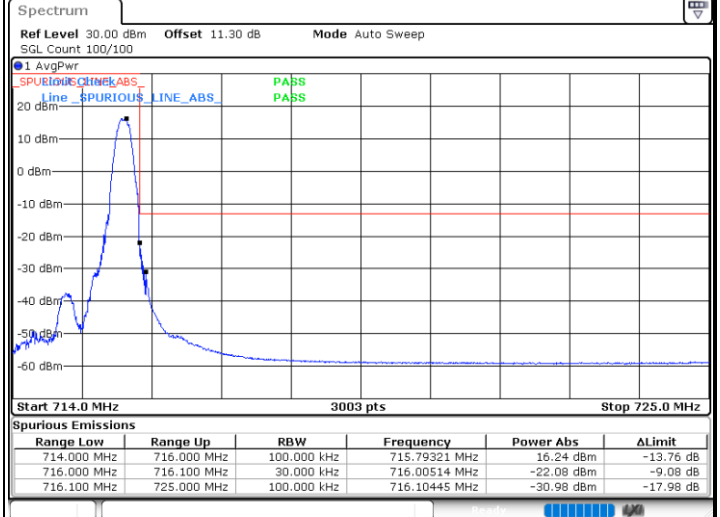


LTE Band 12 / 1.4MHz / 256QAM

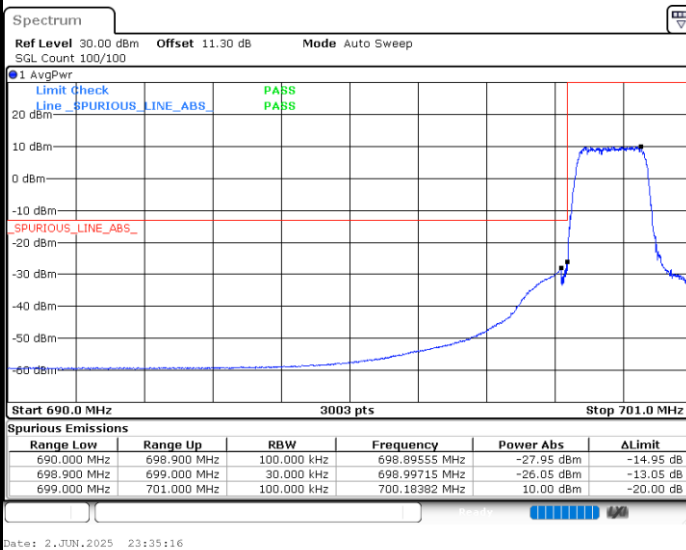
Lowest Band Edge / 1 RB



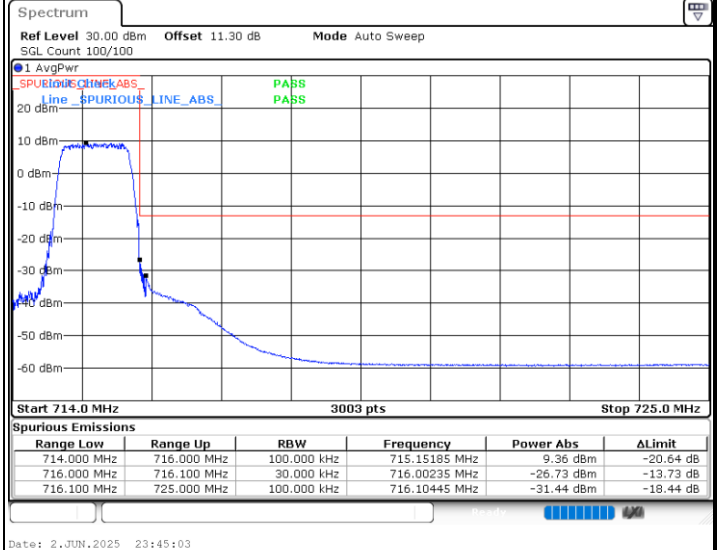
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



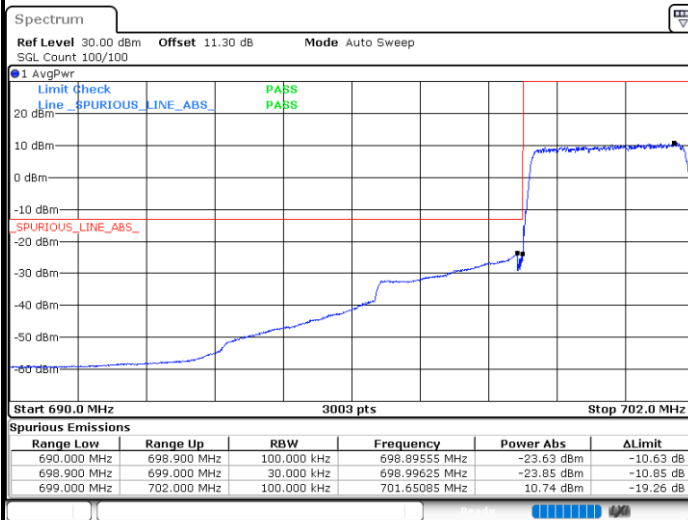
Highest Band Edge / Full RB



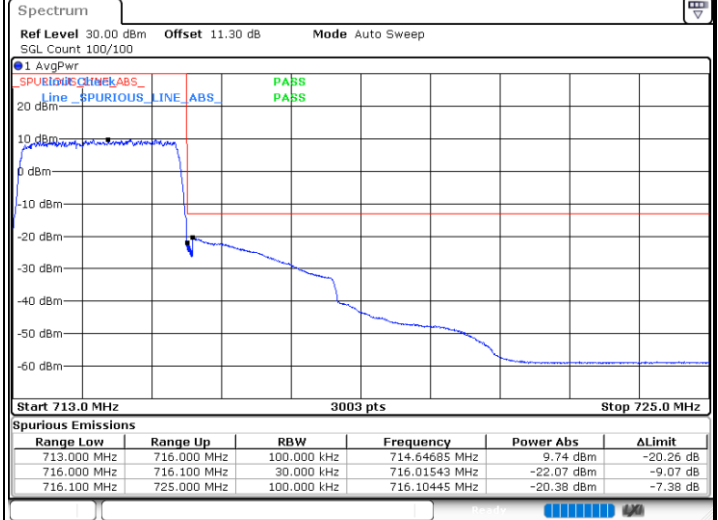


LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / Full RB

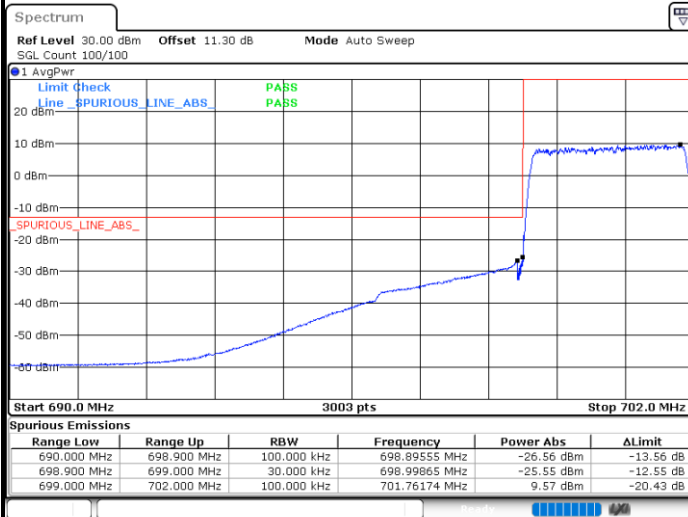


Highest Band Edge / Full RB



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / Full RB



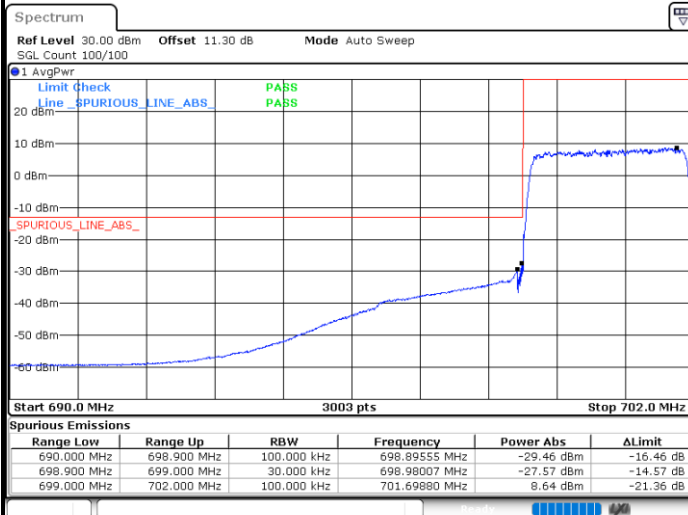
Highest Band Edge / Full RB



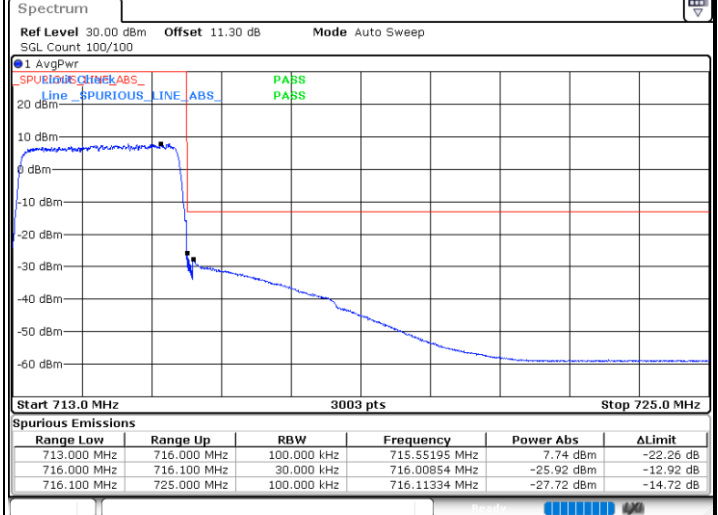


LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / Full RB

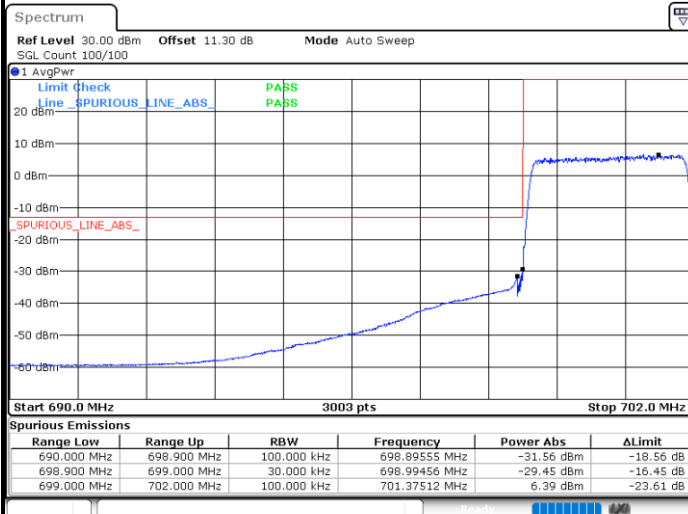


Highest Band Edge / Full RB



LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / Full RB



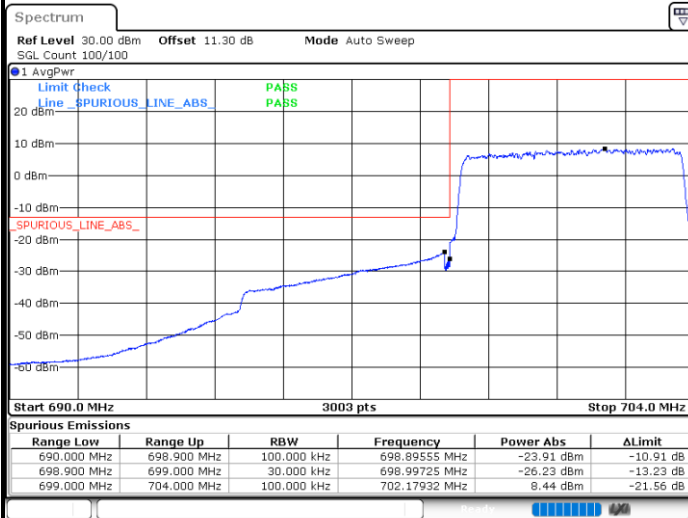
Highest Band Edge / Full RB



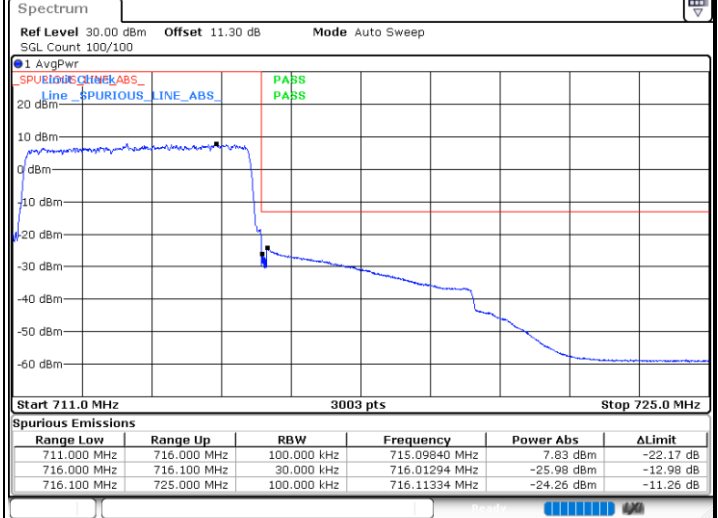


LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / Full RB

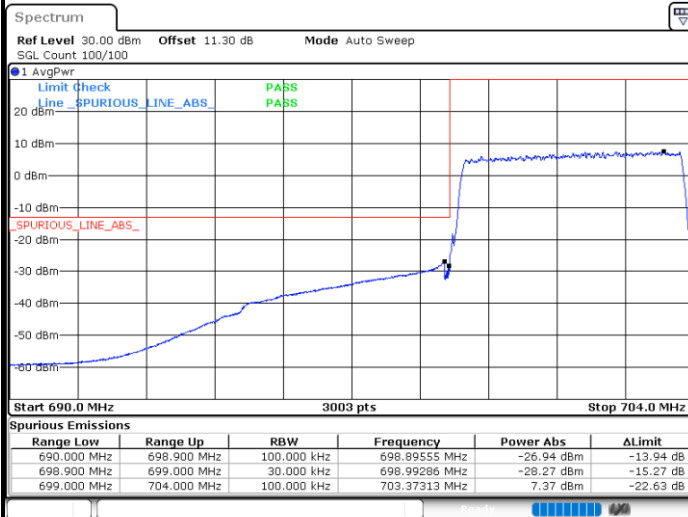


Highest Band Edge / Full RB

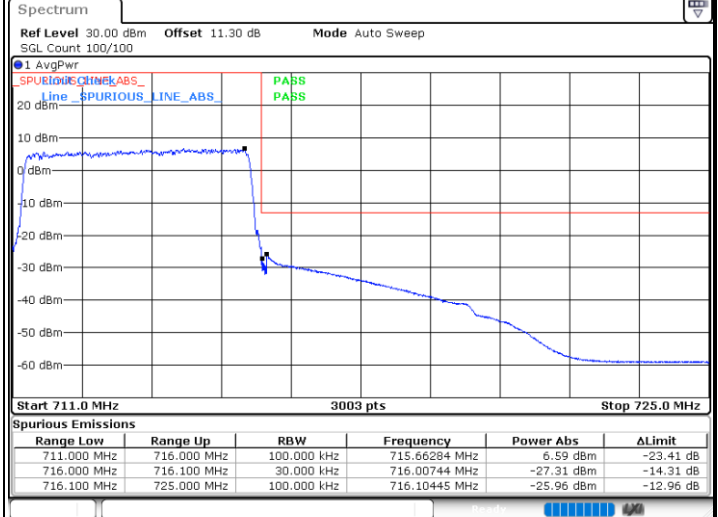


LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / Full RB



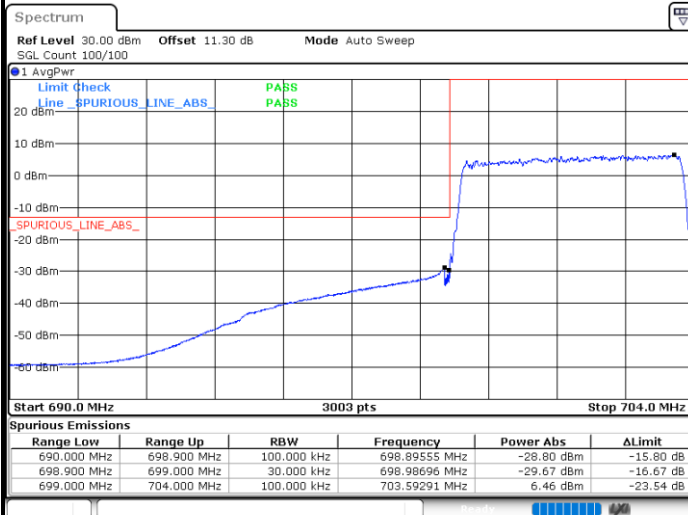
Highest Band Edge / Full RB



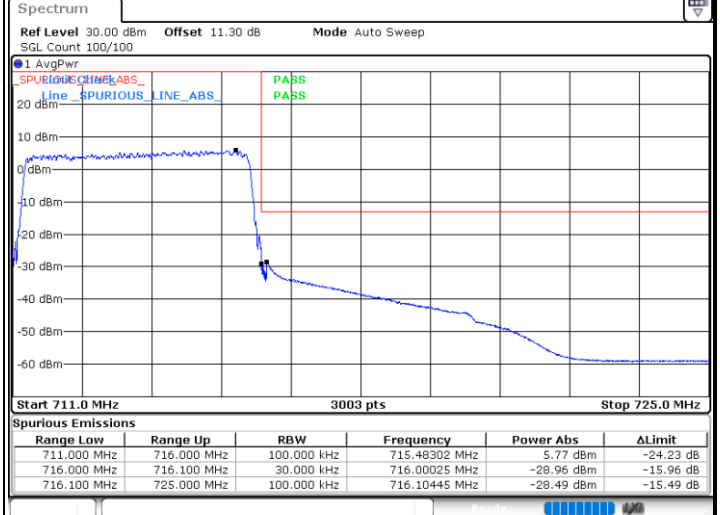


LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / Full RB

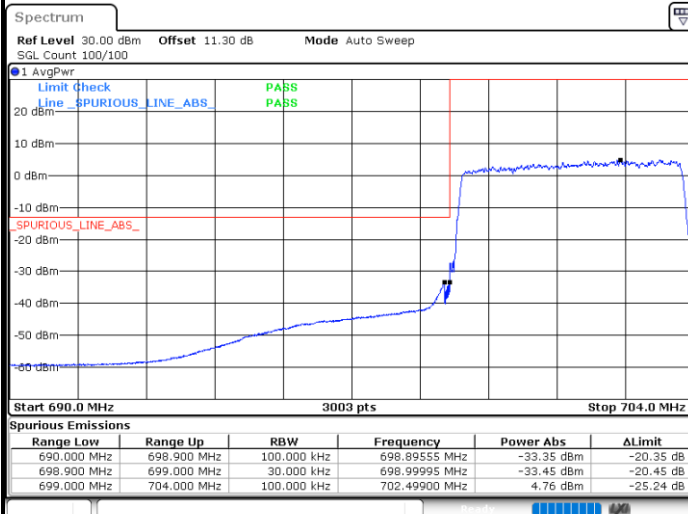


Highest Band Edge / Full RB

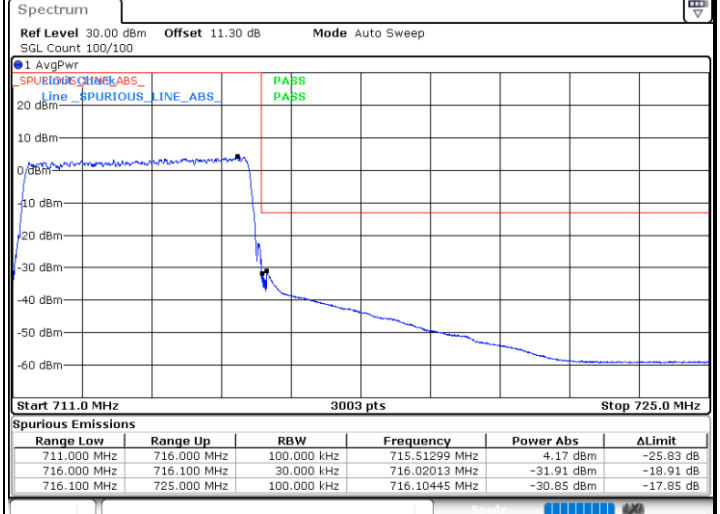


LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / Full RB



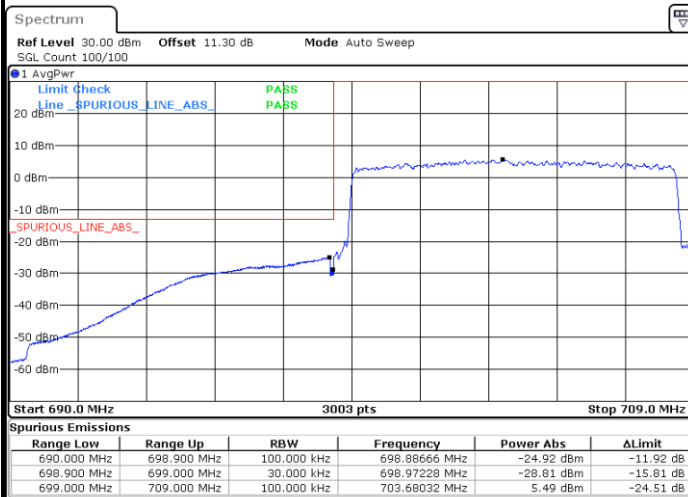
Highest Band Edge / Full RB



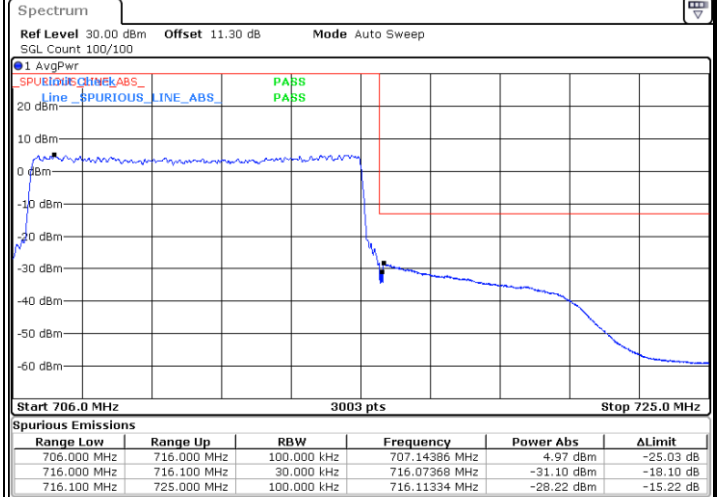


LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB

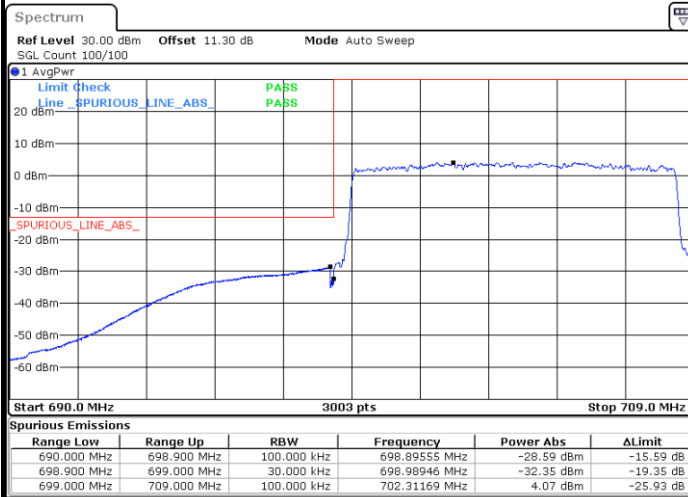


Highest Band Edge / Full RB

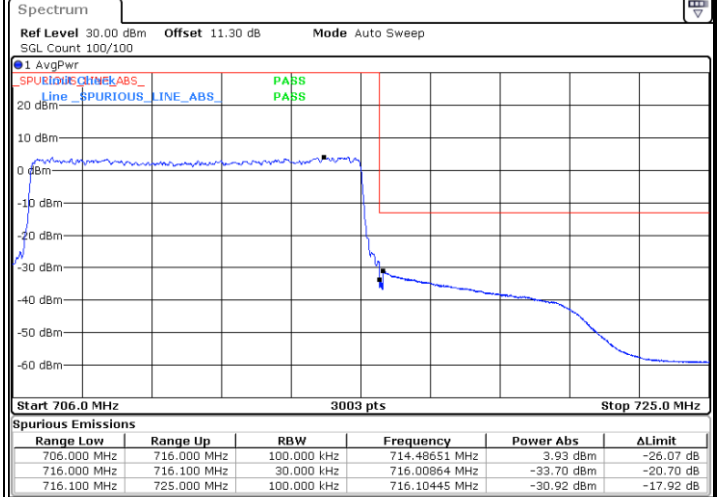


LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / Full RB



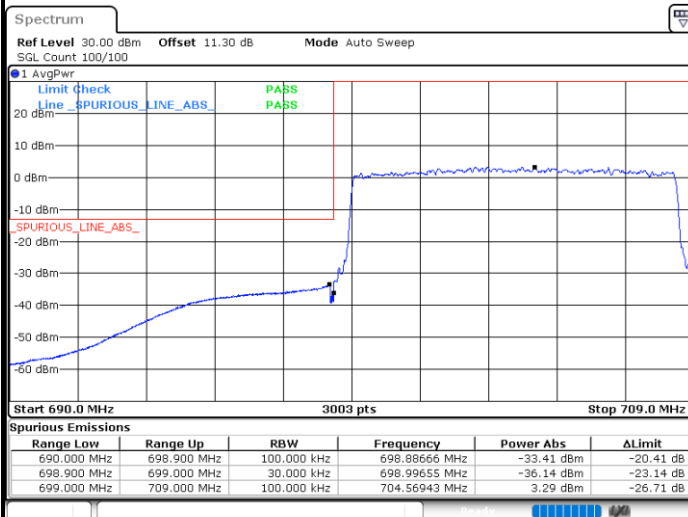
Highest Band Edge / Full RB



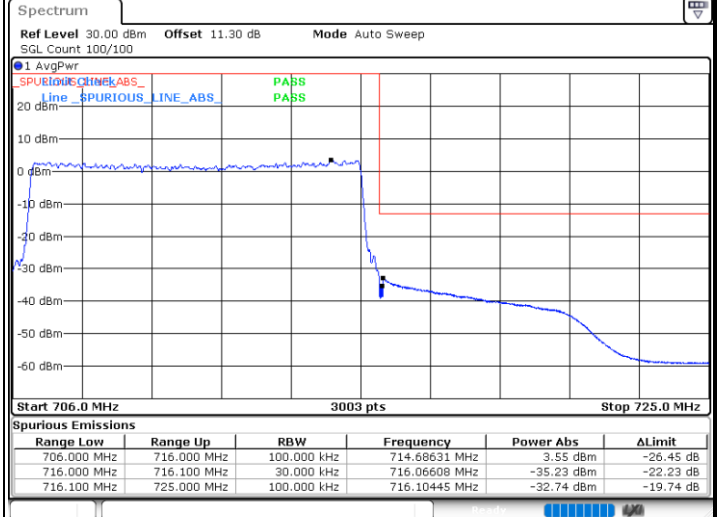


LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / Full RB

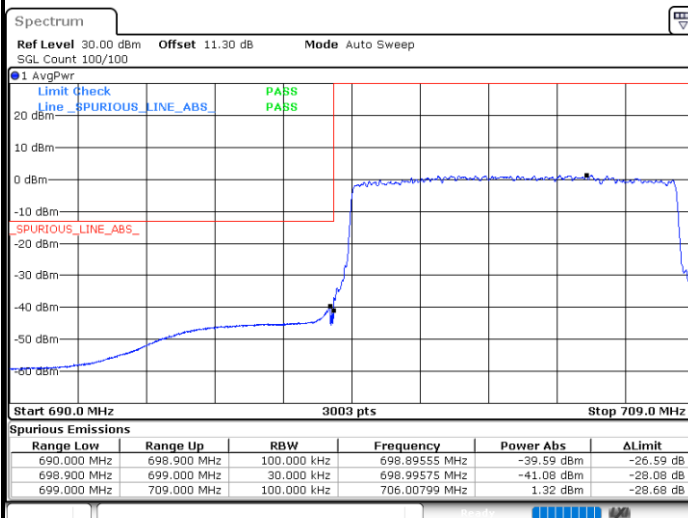


Highest Band Edge / Full RB

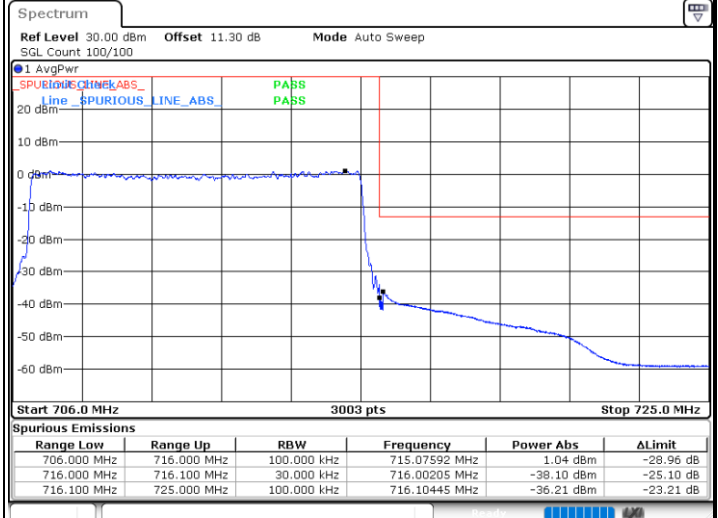


LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

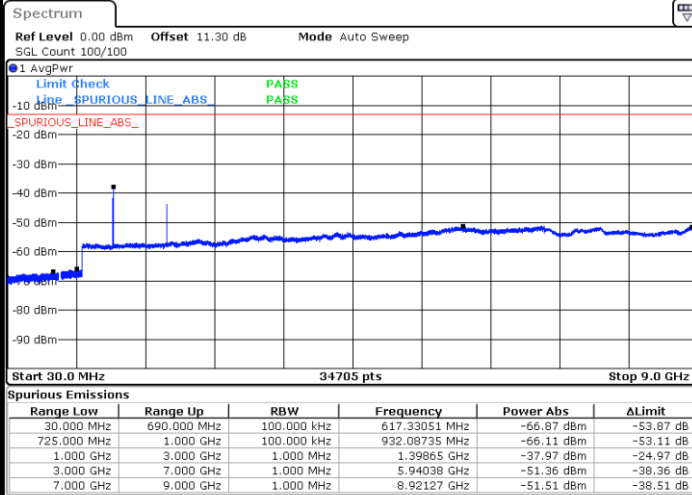




Conducted Spurious Emission

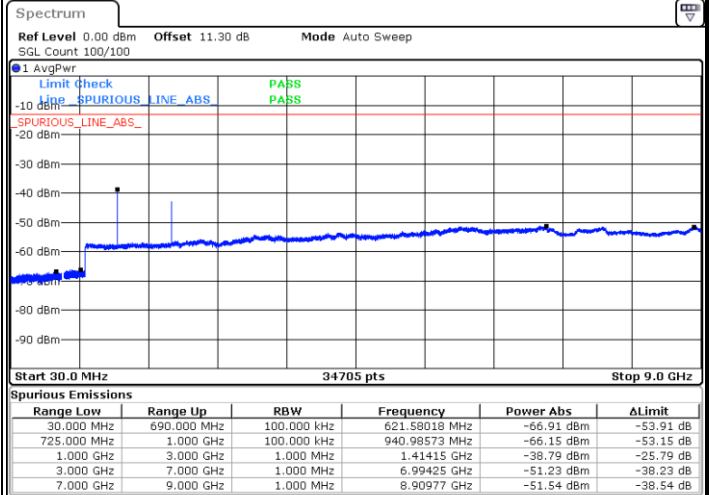
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



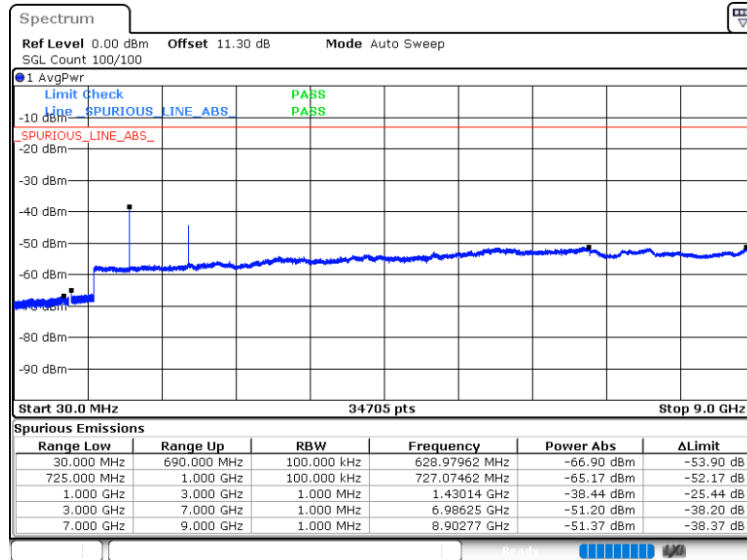
Date: 3.JUN.2025 01:08:26

Middle Channel / QPSK



Date: 3.JUN.2025 01:09:49

Highest Channel / QPSK

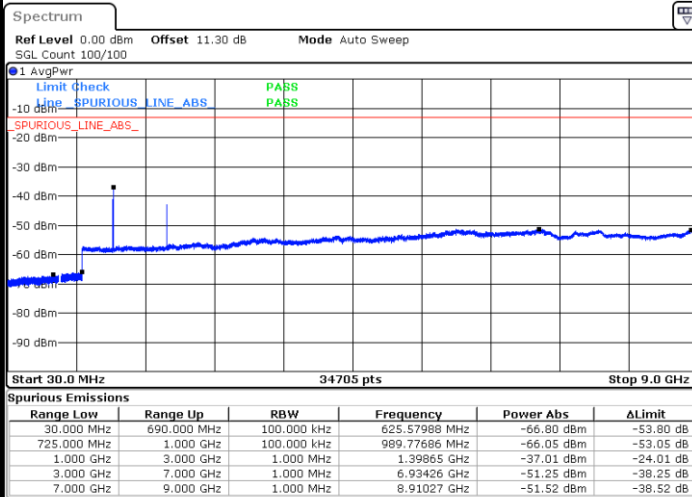


Date: 3.JUN.2025 01:11:11



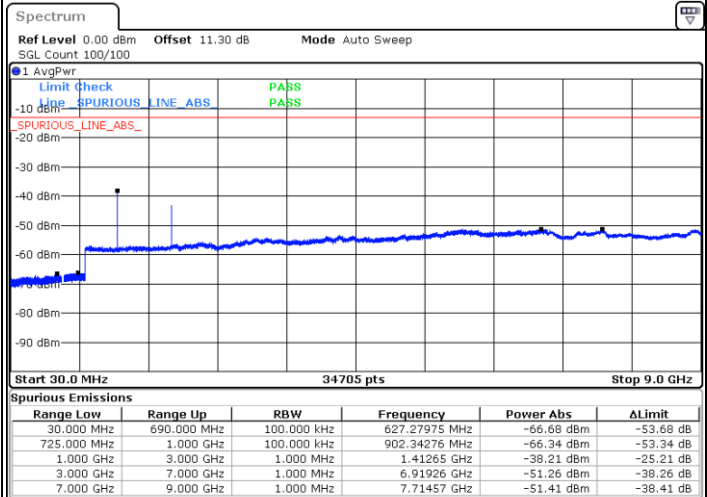
LTE Band 12 / 3MHz

Lowest Channel / QPSK



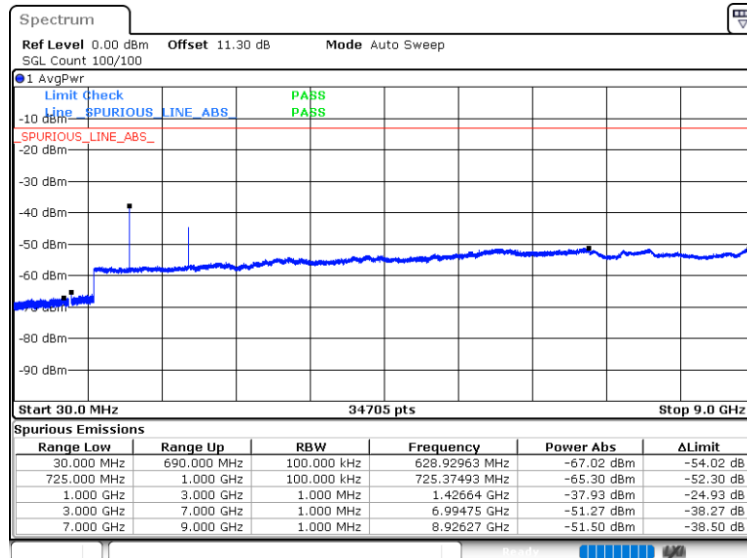
Date: 3.JUN.2025 01:12:35

Middle Channel / QPSK



Date: 3.JUN.2025 01:13:58

Highest Channel / QPSK

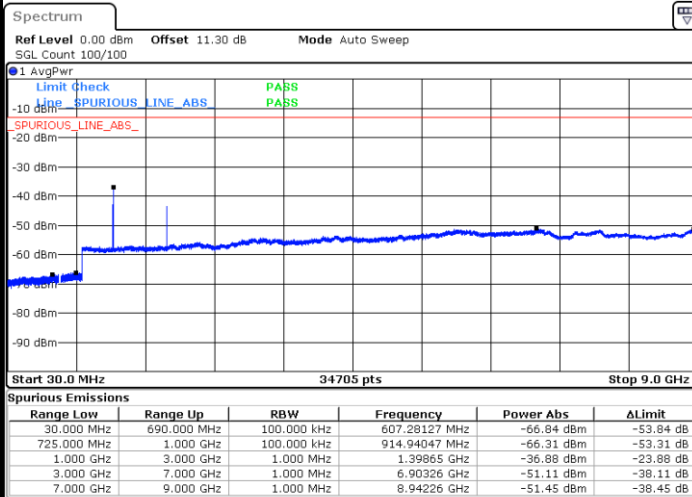


Date: 3.JUN.2025 01:15:20



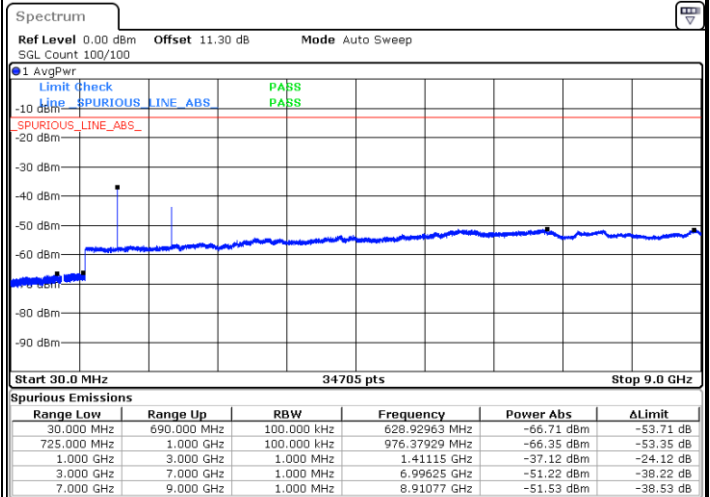
LTE Band 12 / 5MHz

Lowest Channel / QPSK



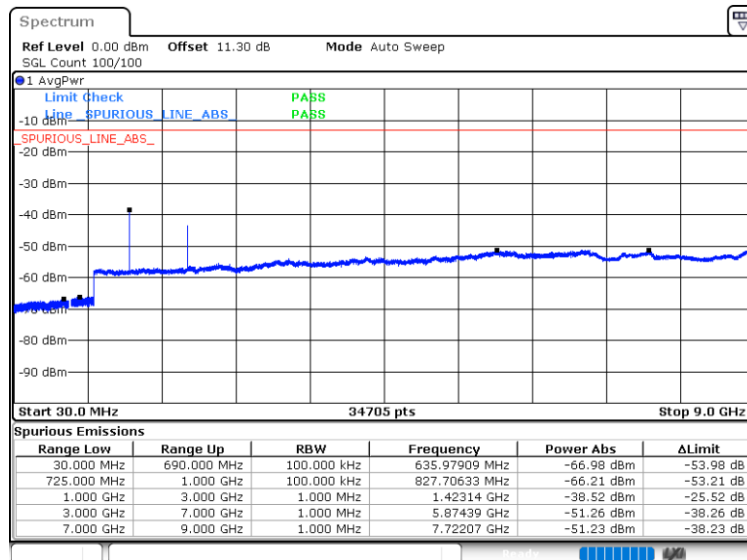
Date: 3.JUN.2025 01:16:44

Middle Channel / QPSK



Date: 3.JUN.2025 01:18:07

Highest Channel / QPSK

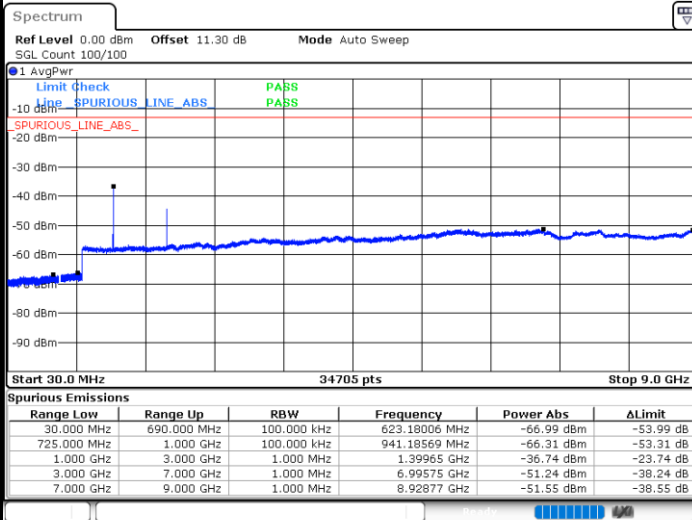


Date: 3.JUN.2025 01:19:29



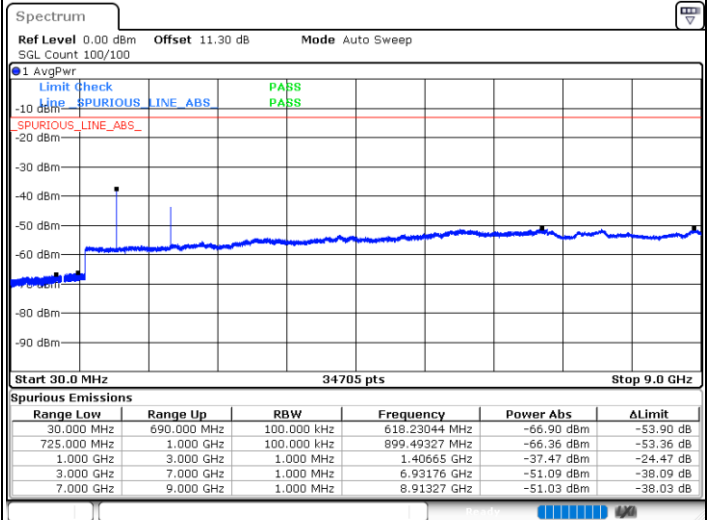
LTE Band 12 / 10MHz

Lowest Channel / QPSK



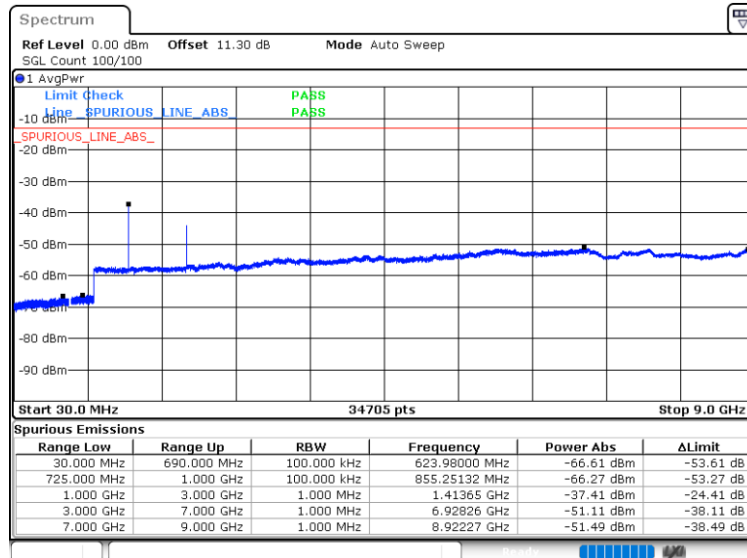
Date: 3.JUN.2025 01:20:54

Middle Channel / QPSK



Date: 3.JUN.2025 01:22:16

Highest Channel / QPSK



Date: 3.JUN.2025 01:23:38

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0033	PASS
40	Normal Voltage	0.0187	
30	Normal Voltage	0.0045	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0107	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0195	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0045	

Note:

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 3.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 12B

26dB Bandwidth

Mode	LTE Band 12B : 26dB BW(MHz)	
	QPSK	
BW	5MHz+5MHz	5MHz+10MHz
Middle CH	10.20	14.61

Mode	LTE Band 12B : 26dB BW(MHz)	
	16QAM	
BW	5MHz+5MHz	5MHz+10MHz
Middle CH	10.04	14.58

Mode	LTE Band 12B : 26dB BW(MHz)	
	64QAM	
BW	5MHz+5MHz	5MHz+10MHz
Middle CH	10.14	14.67

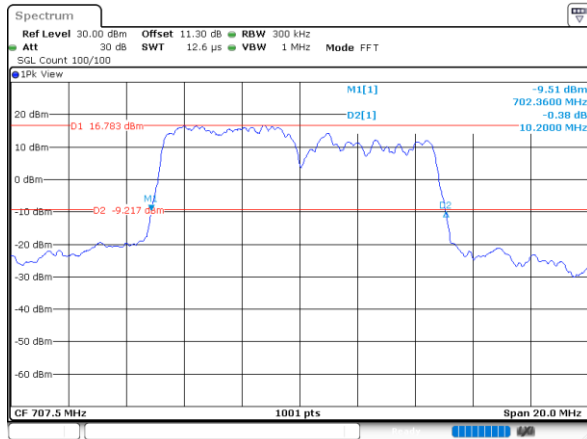
Mode	LTE Band 12B : 26dB BW(MHz)	
	256QAM	
BW	5MHz+5MHz	5MHz+10MHz
Middle CH	10.22	14.76



LTE Band 12B

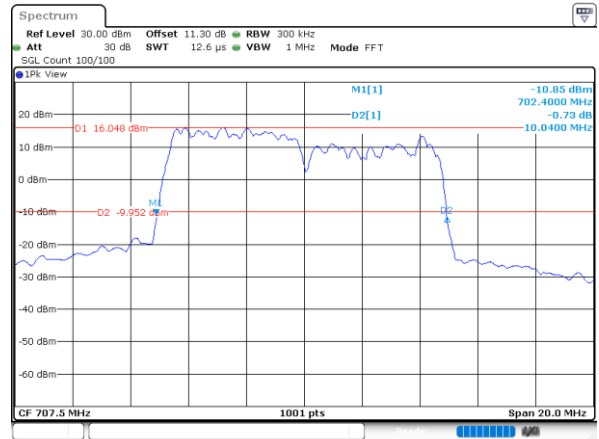
QPSK

Middle Channel / 5MHz+5MHz



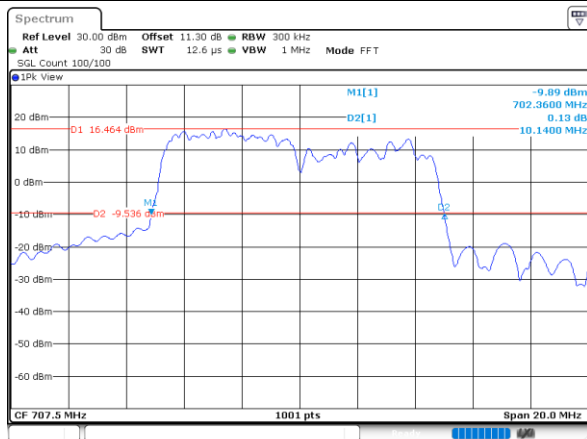
16QAM

Middle Channel / 5MHz+5MHz



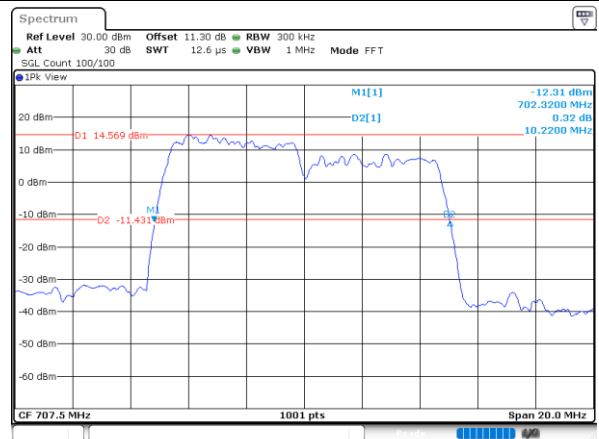
64QAM

Middle Channel / 5MHz+5MHz



256QAM

Middle Channel / 5MHz+5MHz

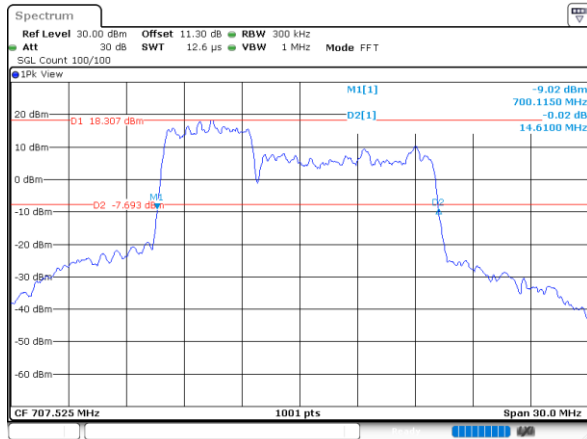




LTE Band 12B

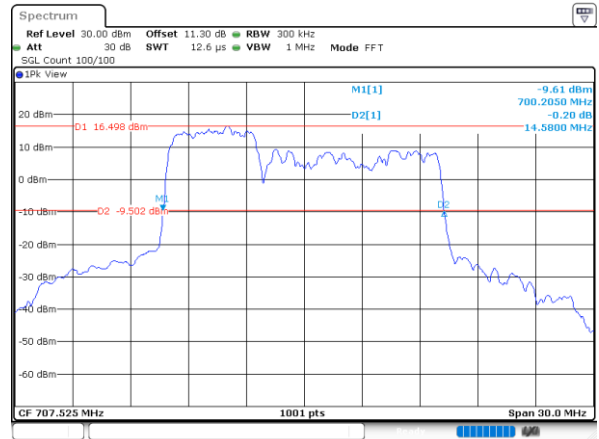
QPSK

Middle Channel / 5MHz+10MHz



16QAM

Middle Channel / 5MHz+10MHz



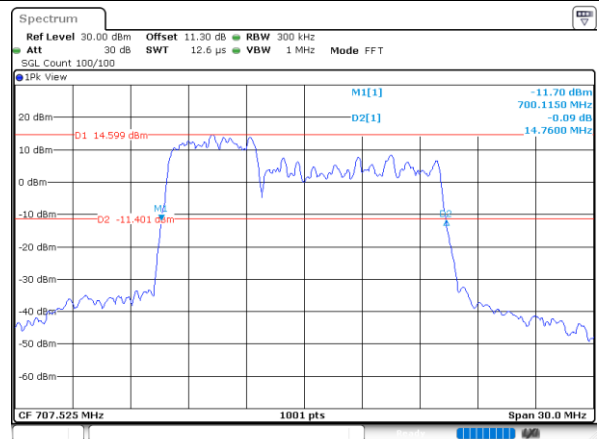
64QAM

Middle Channel / 5MHz+10MHz



256QAM

Middle Channel / 5MHz+10MHz



**Occupied Bandwidth**

Mode	LTE Band 12B : 99%OBW(MHz)	
QPSK		
BW	5MHz+5MHz	5MHz+10MHz
Middle CH	9.31	13.82

Mode	LTE Band 12B : 99%OBW(MHz)	
16QAM		
BW	5MHz+5MHz	5MHz+10MHz
Middle CH	9.23	13.78

Mode	LTE Band 12B : 99%OBW(MHz)	
64QAM		
BW	5MHz+5MHz	5MHz+10MHz
Middle CH	9.34	13.89

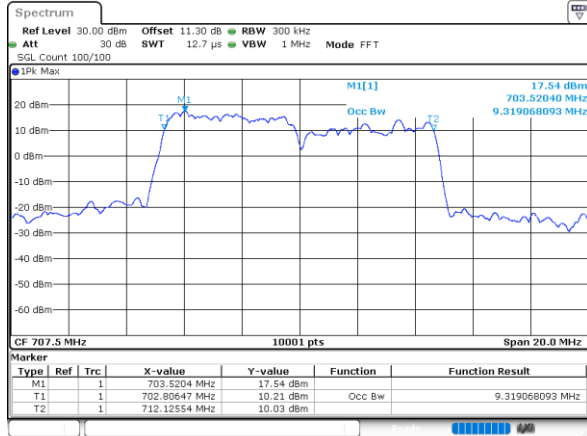
Mode	LTE Band 12B : 99%OBW(MHz)	
256QAM		
BW	5MHz+5MHz	5MHz+10MHz
Middle CH	9.23	13.89



LTE Band 12B

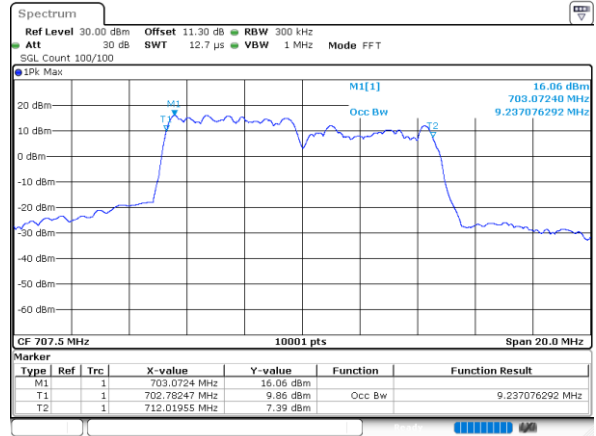
QPSK

Middle Channel / 5MHz+5MHz



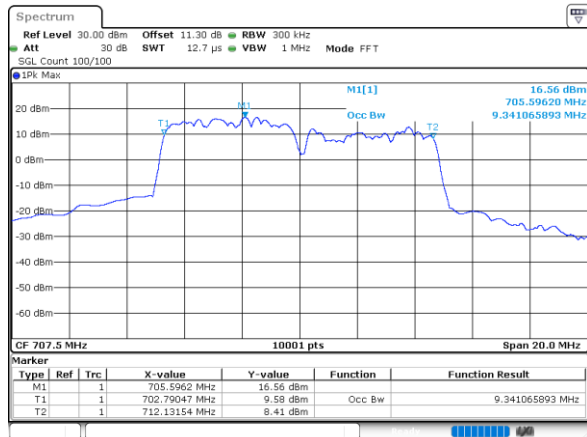
16QAM

Middle Channel / 5MHz+5MHz



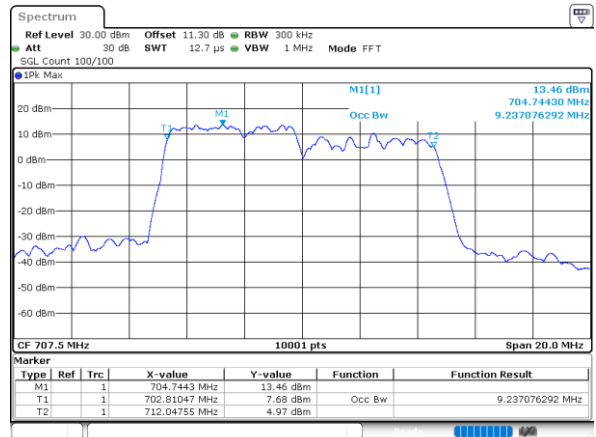
64QAM

Middle Channel / 5MHz+5MHz



256QAM

Middle Channel / 5MHz+5MHz

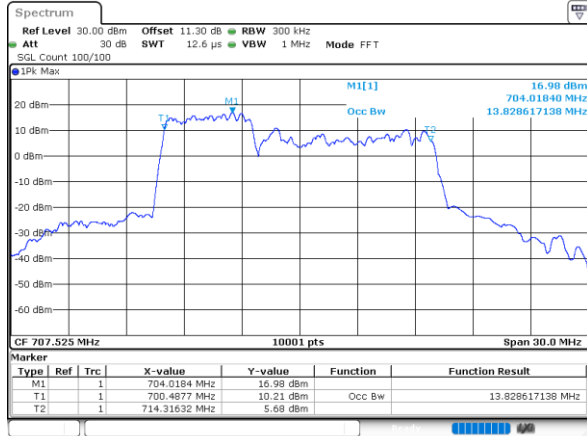




LTE Band 12B

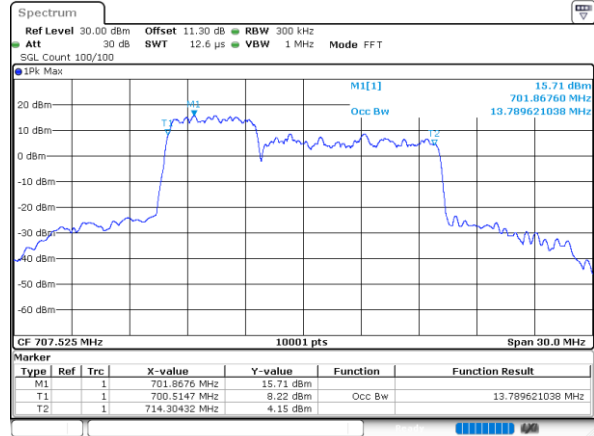
QPSK

Middle Channel / 5MHz+10MHz



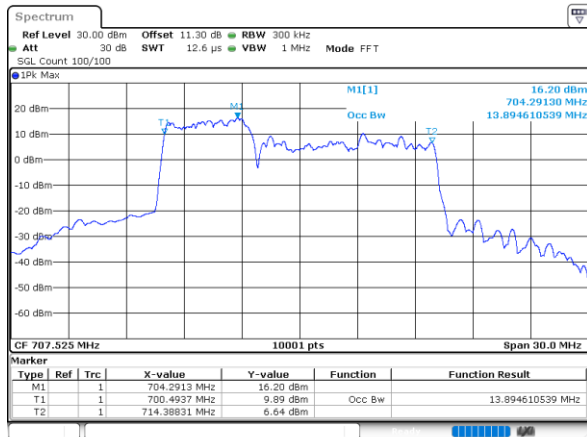
16QAM

Middle Channel / 5MHz+10MHz



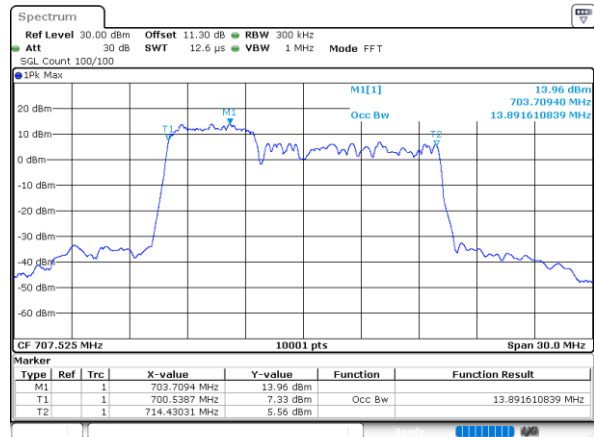
64QAM

Middle Channel / 5MHz+10MHz



256QAM

Middle Channel / 5MHz+10MHz





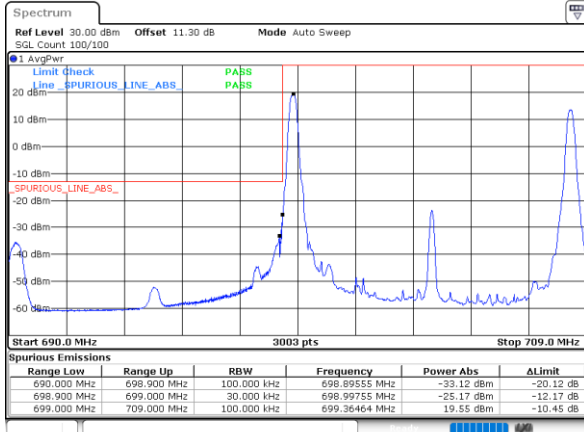
Conducted Band Edge



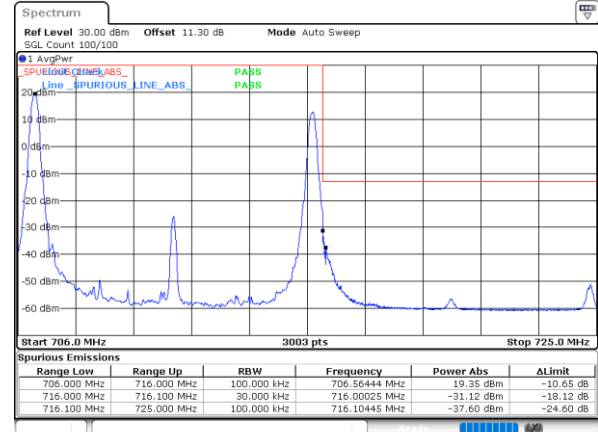
LTE Band 12B / 5MHz+5MHz

QPSK

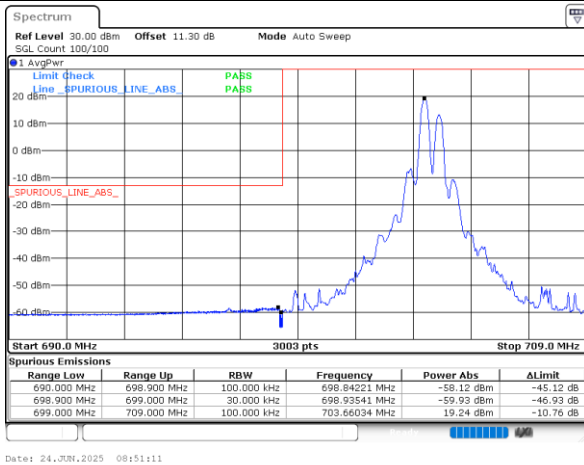
Lowest Band Edge / 1RB0 and 1RB24



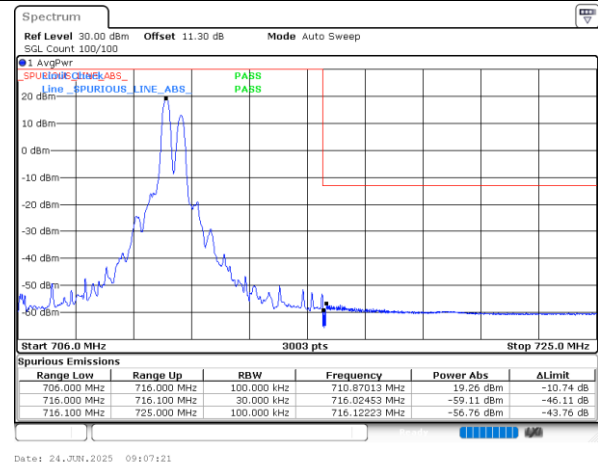
Highest Band Edge / 1RB0 and 1RB24



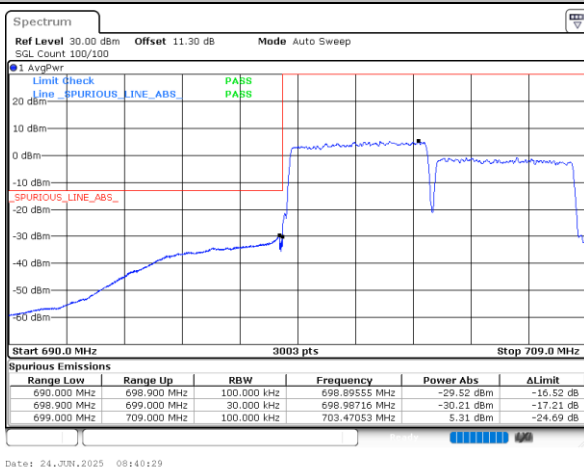
Lowest Band Edge / 1RB24 and 1RB0



Highest Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

