



Middle Channel / QPSK

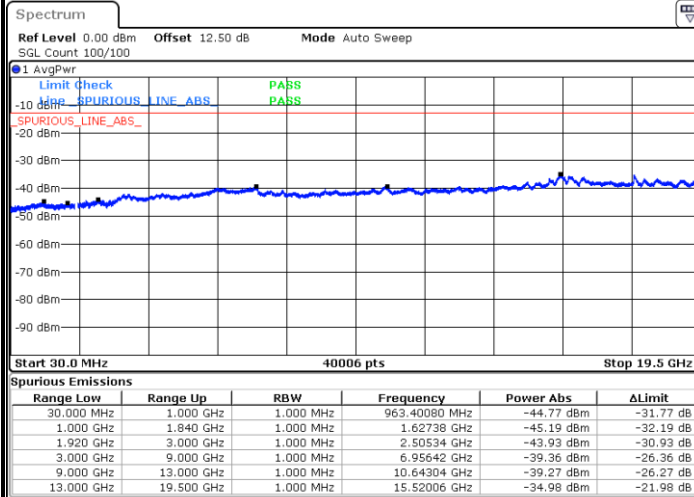


Date: 26.NOV.2024 12:49:07



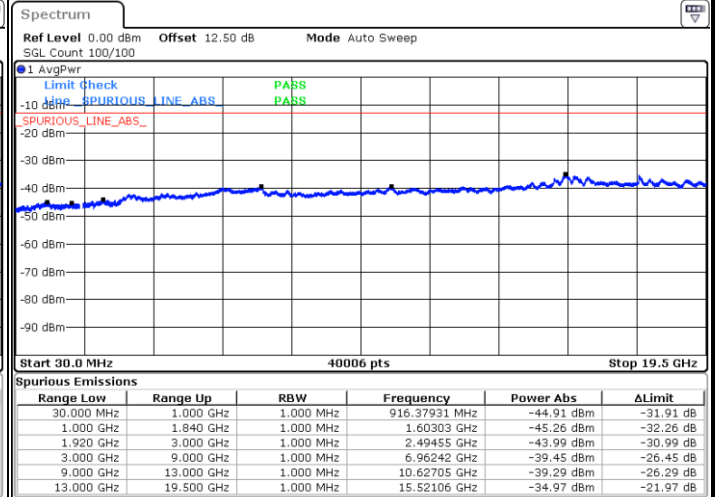
LTE Band 2 / 5MHz

Lowest Channel / QPSK



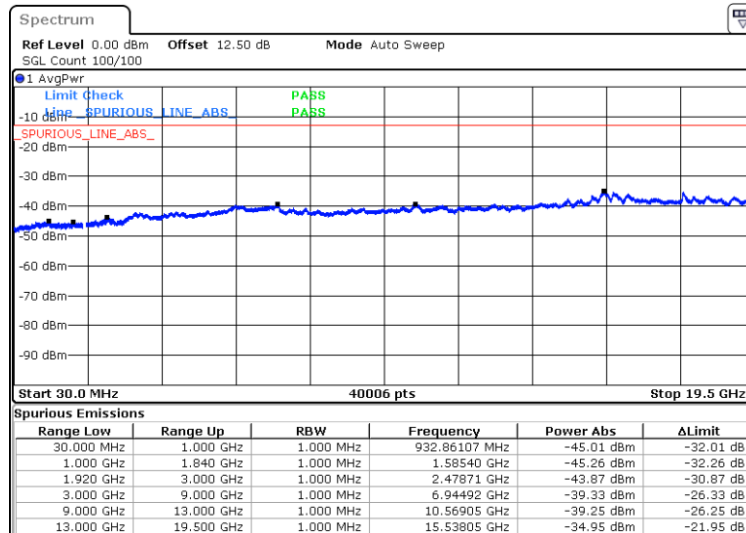
Date: 26.NOV.2024 12:53:45

Middle Channel / QPSK



Date: 26.NOV.2024 12:55:10

Highest Channel / QPSK

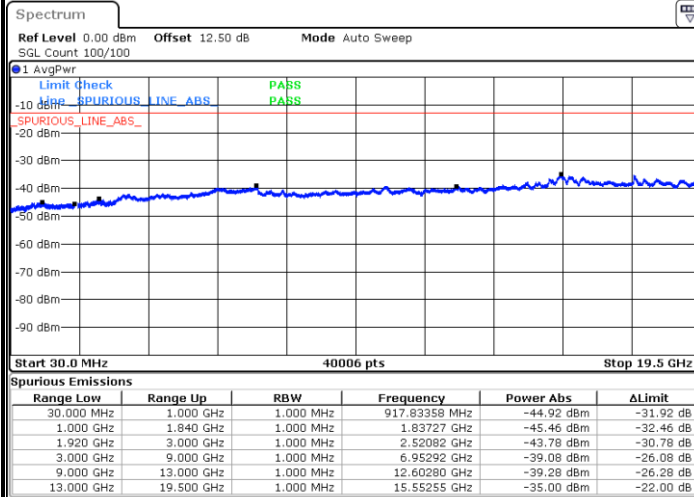


Date: 26.NOV.2024 12:56:37



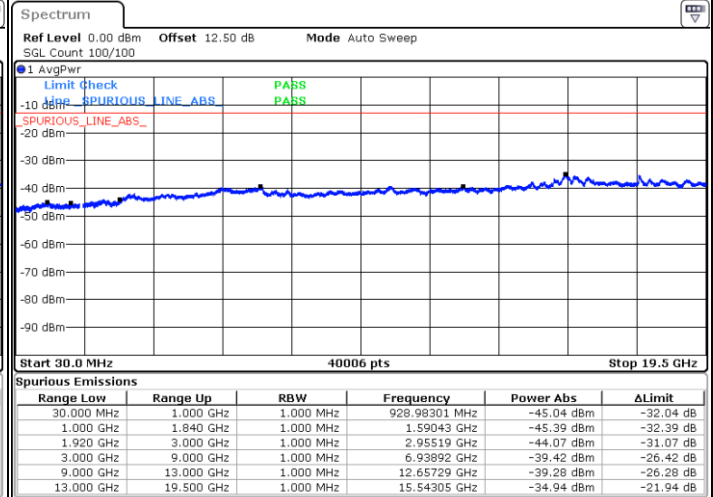
LTE Band 2 / 10MHz

Lowest Channel / QPSK



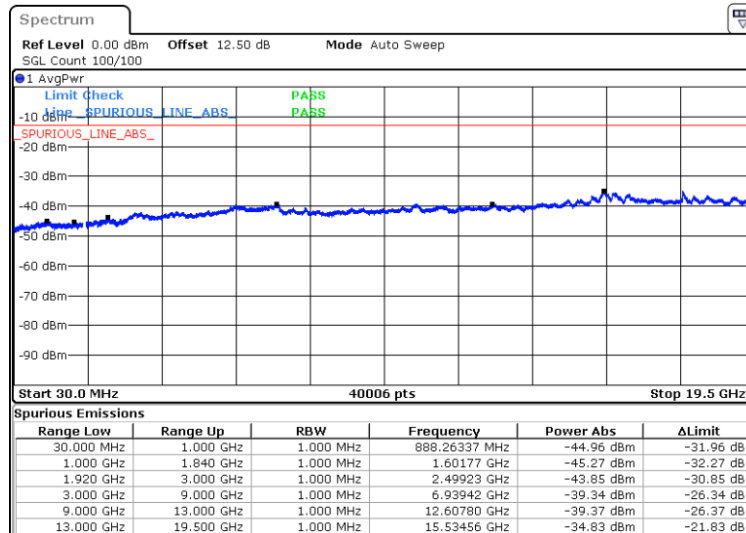
Date: 26.NOV.2024 13:01:12

Middle Channel / QPSK



Date: 26.NOV.2024 13:02:34

Highest Channel / QPSK

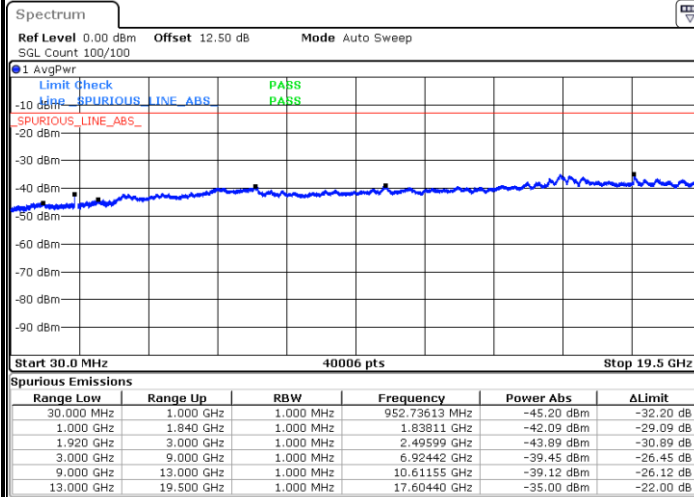


Date: 26.NOV.2024 13:03:57



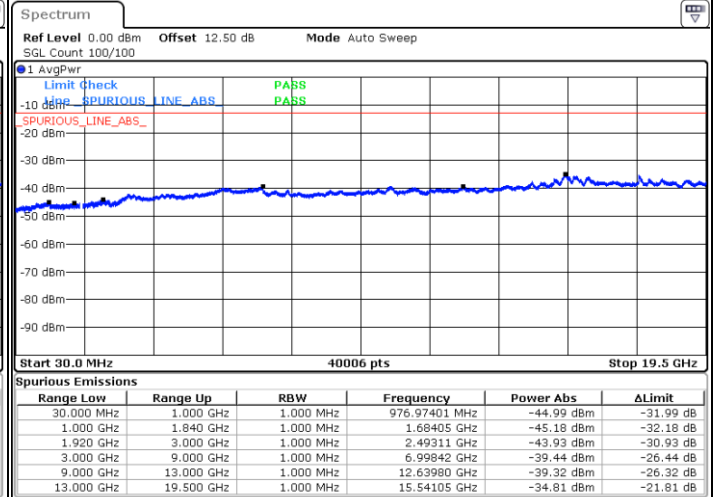
LTE Band 2 / 15MHz

Lowest Channel / QPSK



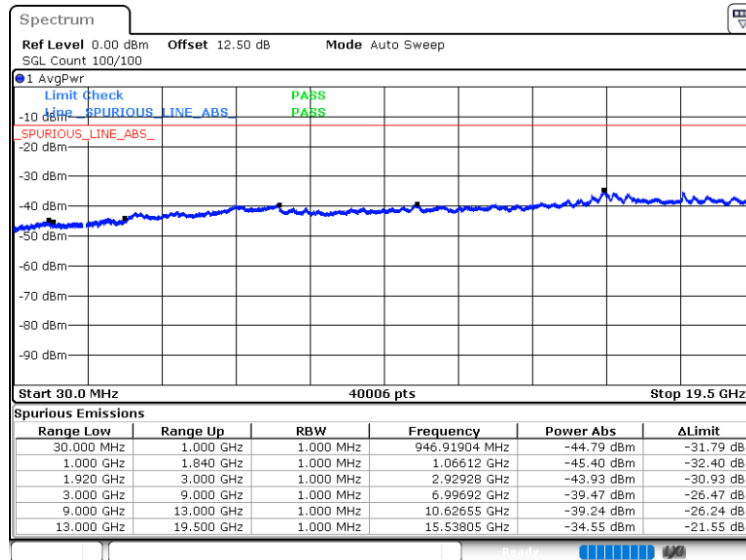
Date: 26.NOV.2024 13:08:24

Middle Channel / QPSK



Date: 26.NOV.2024 13:09:48

Highest Channel / QPSK

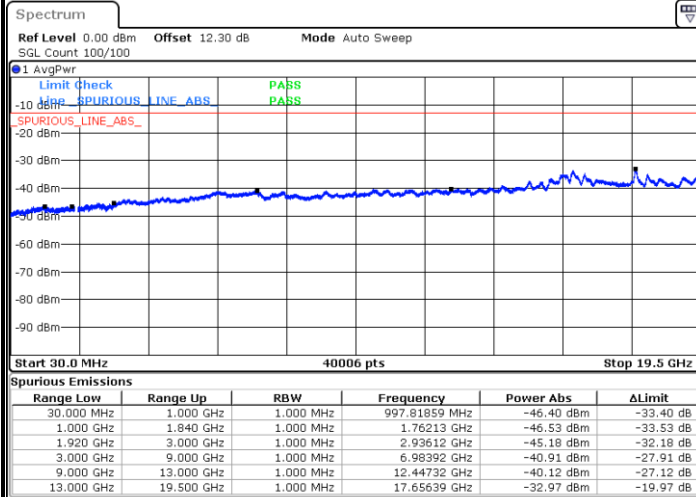


Date: 26.NOV.2024 13:11:11



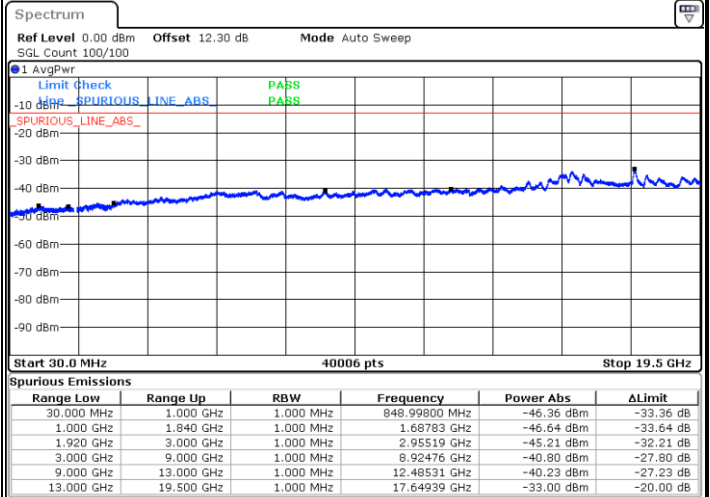
LTE Band 2 / 20MHz

Lowest Channel / QPSK



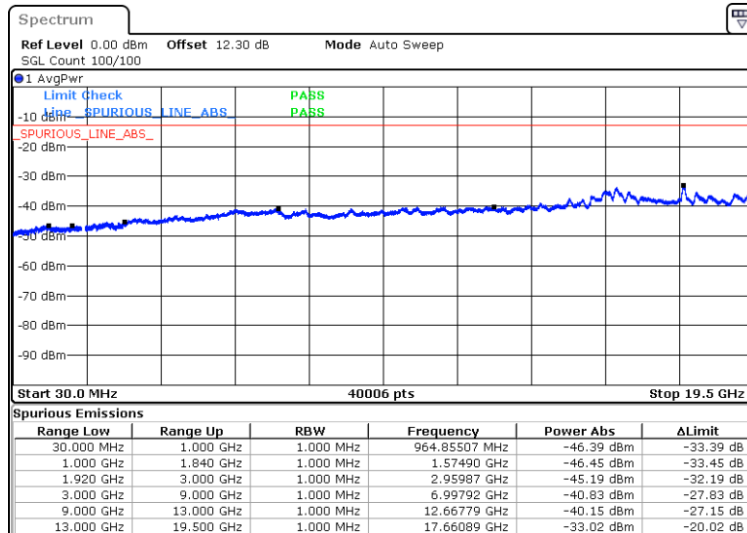
Date: 27.FEB.2025 19:37:11

Middle Channel / QPSK



Date: 27.FEB.2025 19:38:23

Highest Channel / QPSK



Date: 27.FEB.2025 19:44:45

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0041	PASS
30	Normal Voltage	0.0026	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0002	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0010	

Note:

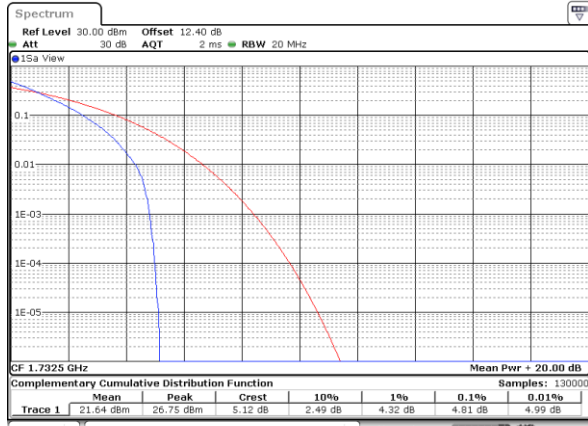
1. Normal Voltage = 3.88 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**LTE Band 4****Peak-to-Average Ratio**

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.81	5.77	6.35	-	PASS

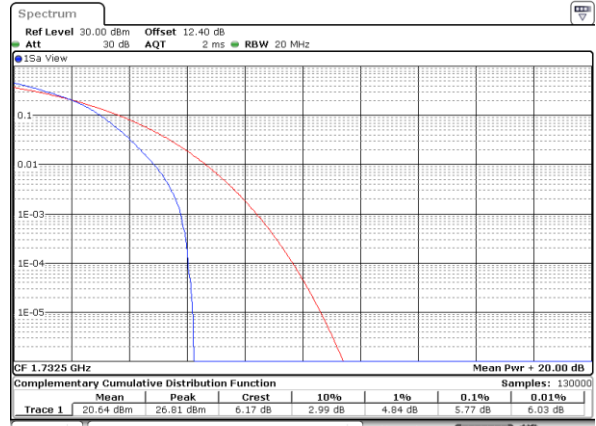
LTE Band 4 / 20MHz / QPSK

Middle Channel / Full RB



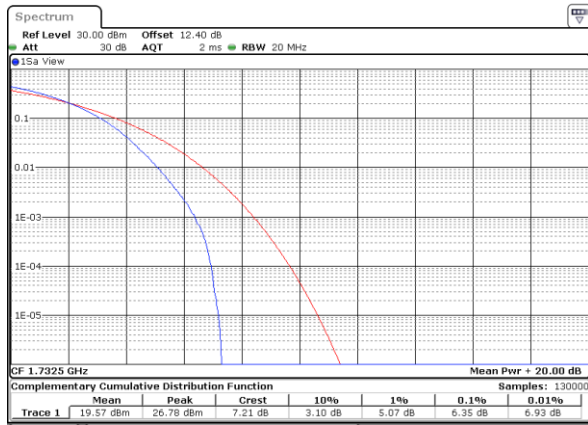
LTE Band 4 / 20MHz / 16QAM

Middle Channel / Full RB



LTE Band 4 / 20MHz / 64QAM

Middle Channel / Full RB



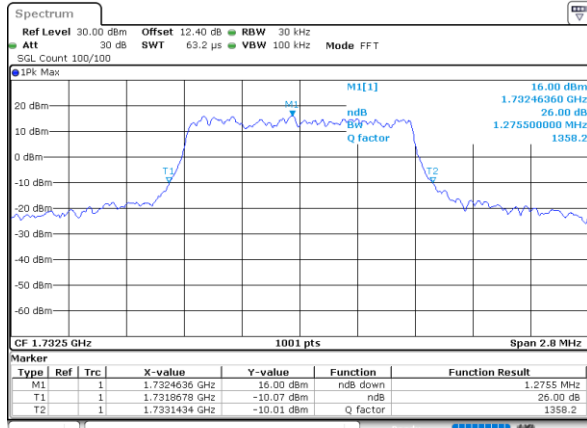
**26dB Bandwidth**

Mode	LTE Band 4 : 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	1.27	1.26	2.99	2.94	5.01	4.94	9.73	9.71	14.20	14.17	18.94	19.06
Mode	LTE Band 4 : 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	1.25	-	3.00	-	4.92	-	9.68	-	14.53	-	19.18	-



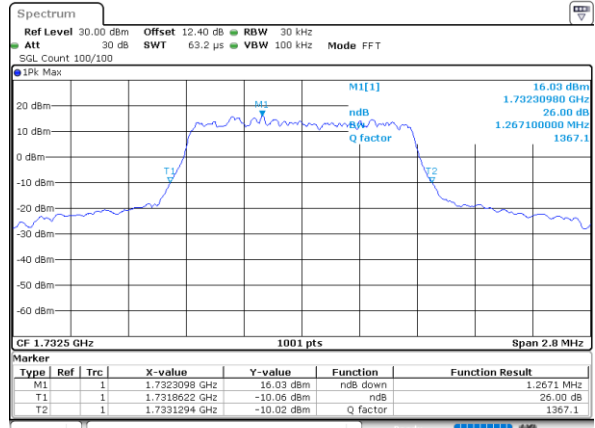
LTE Band 4

Middle Channel / 1.4MHz / QPSK



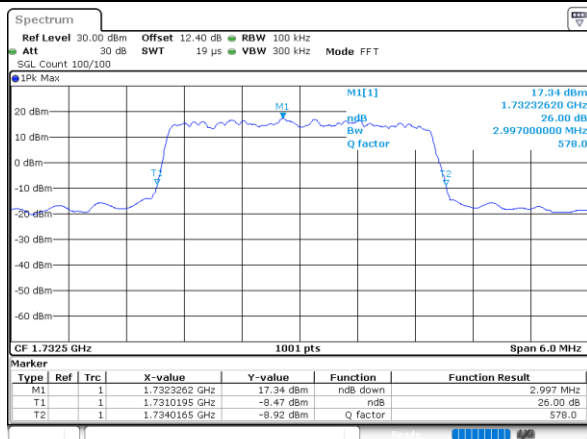
Date: 26,NOV,2024 13:51:02

Middle Channel / 1.4MHz / 16QAM



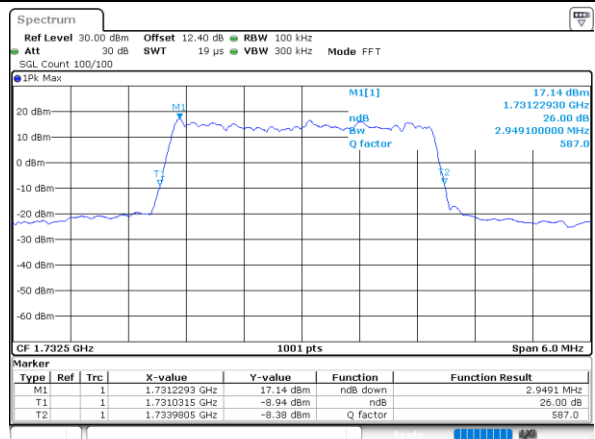
Date: 26,NOV,2024 13:51:33

Middle Channel / 3MHz / QPSK



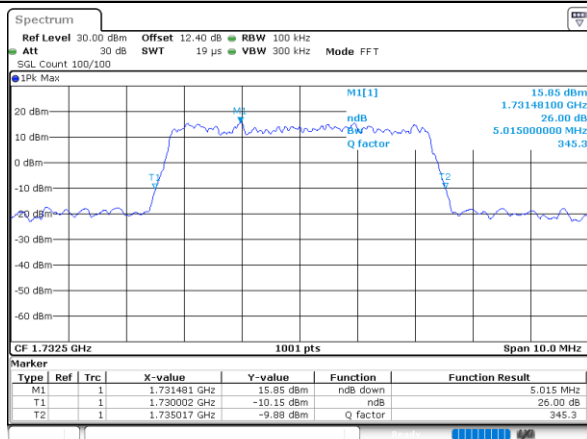
Date: 26,NOV,2024 14:42:47

Middle Channel / 3MHz / 16QAM



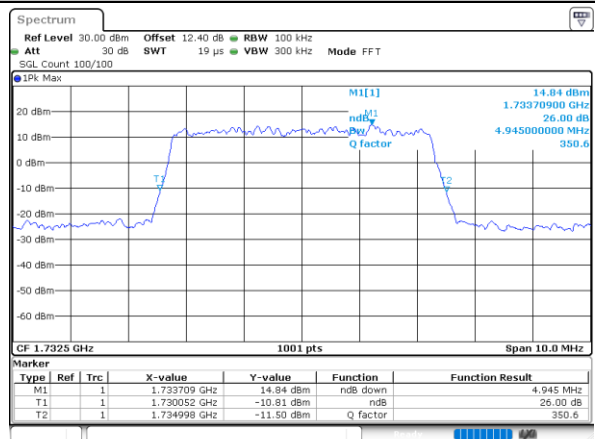
Date: 26,NOV,2024 14:43:19

Middle Channel / 5MHz / QPSK



Date: 26,NOV,2024 16:05:14

Middle Channel / 5MHz / 16QAM

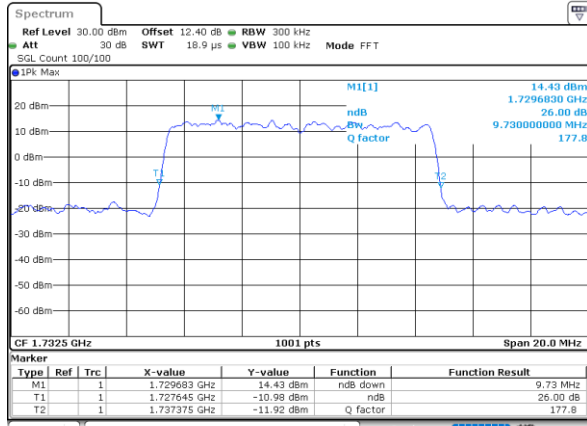


Date: 26,NOV,2024 16:05:50



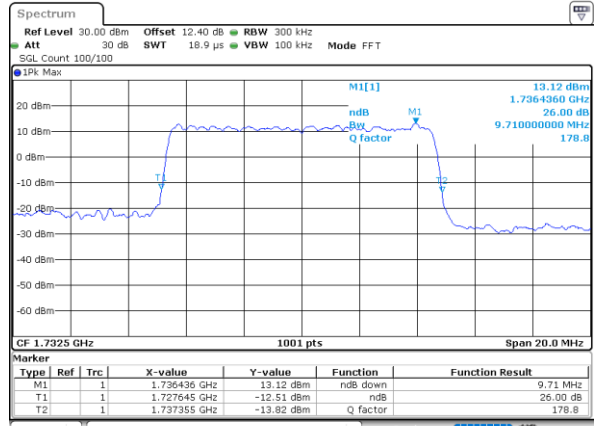
LTE Band 4

Middle Channel / 10MHz / QPSK



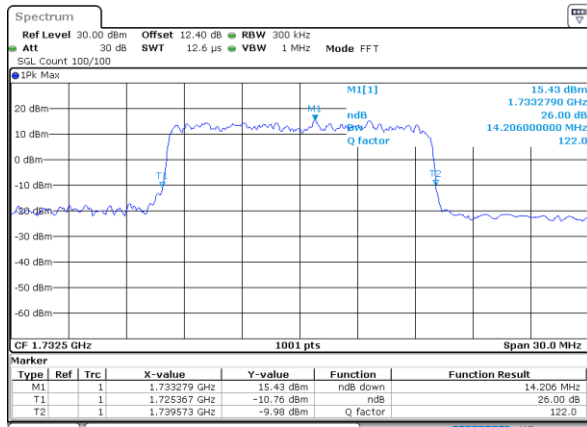
Date: 27.NOV.2024 11:13:42

Middle Channel / 10MHz / 16QAM



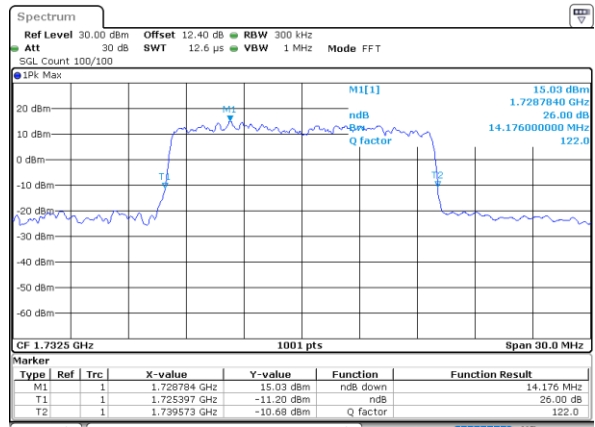
Date: 27.NOV.2024 11:14:15

Middle Channel / 15MHz / QPSK



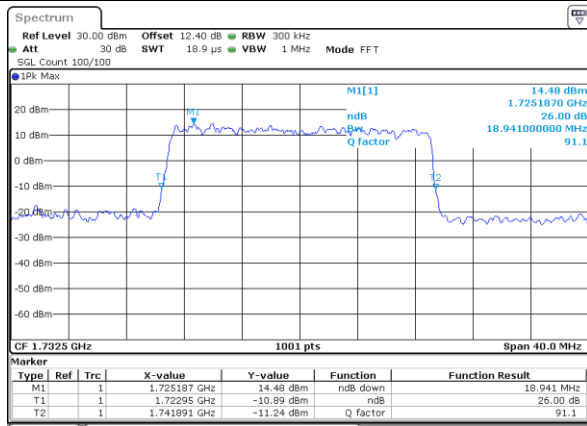
Date: 27.NOV.2024 13:34:52

Middle Channel / 15MHz / 16QAM



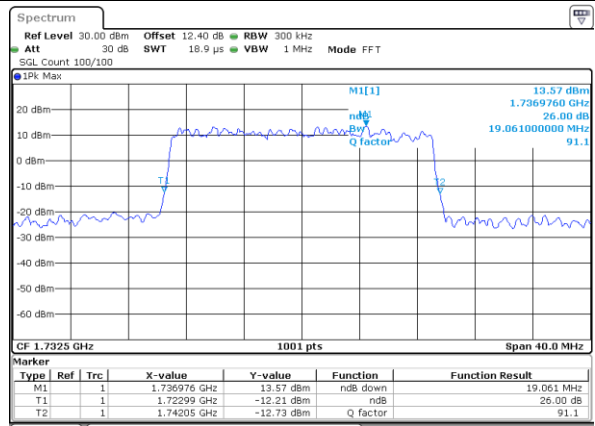
Date: 27.NOV.2024 13:35:27

Middle Channel / 20MHz / QPSK



Date: 27.NOV.2024 14:34:22

Middle Channel / 20MHz / 16QAM

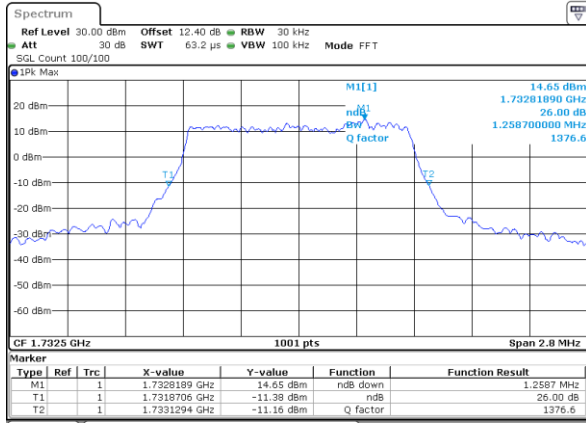


Date: 27.NOV.2024 14:34:56



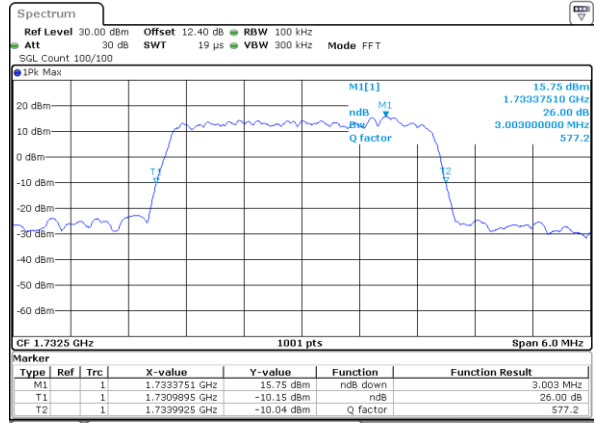
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



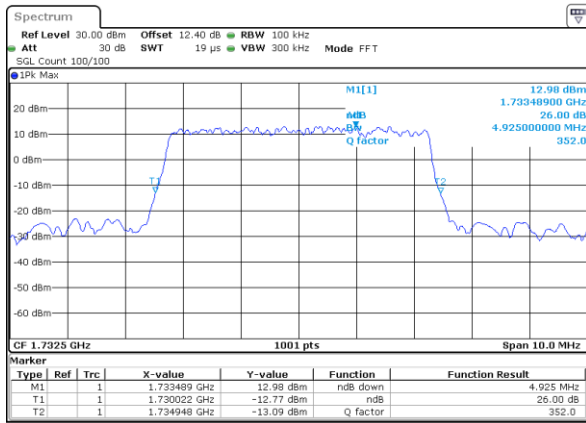
Date: 26,NOV,2024 13:52:05

Middle Channel / 3MHz / 64QAM



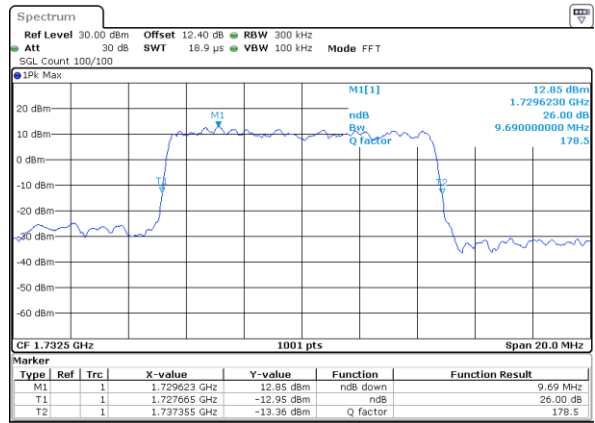
Date: 26,NOV,2024 14:43:50

Middle Channel / 5MHz / 64QAM



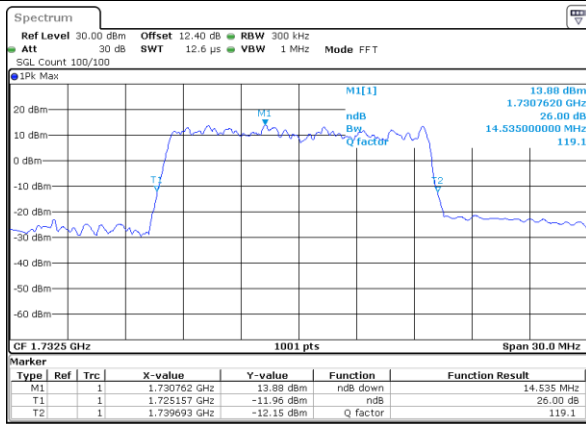
Date: 26,NOV,2024 16:06:26

Middle Channel / 10MHz / 64QAM



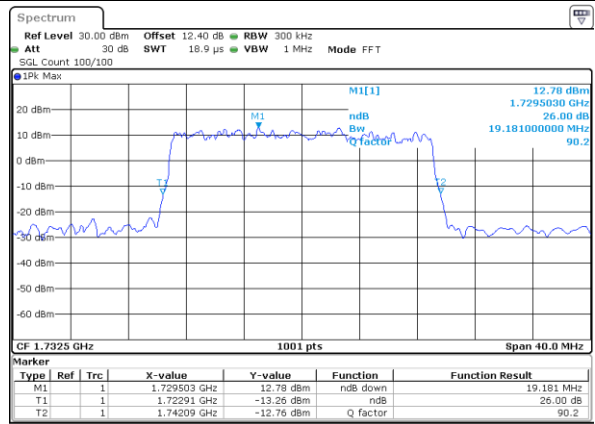
Date: 27,NOV,2024 11:14:44

Middle Channel / 15MHz / 64QAM



Date: 27,NOV,2024 13:36:01

Middle Channel / 20MHz / 64QAM



Date: 27,NOV,2024 14:35:40

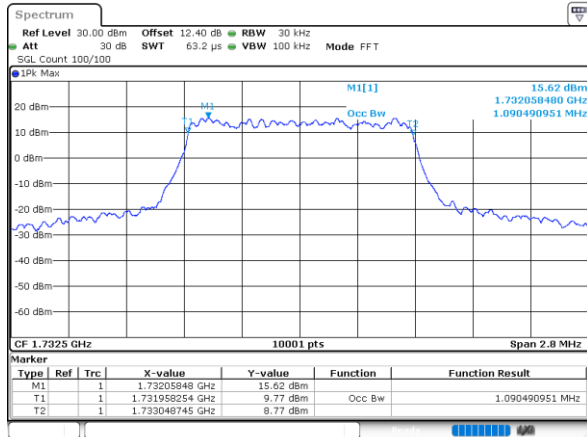
**Occupied Bandwidth**

Mode	LTE Band 4 : 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	2.71	2.72	4.49	4.49	9.06	9.05	13.48	13.45	17.89	17.86
Mode	LTE Band 4 : 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	-	2.71	-	4.48	-	9.07	-	13.38	-	17.84	-

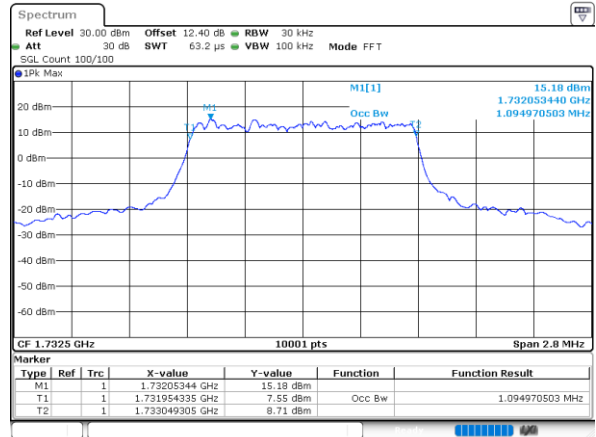


LTE Band 4

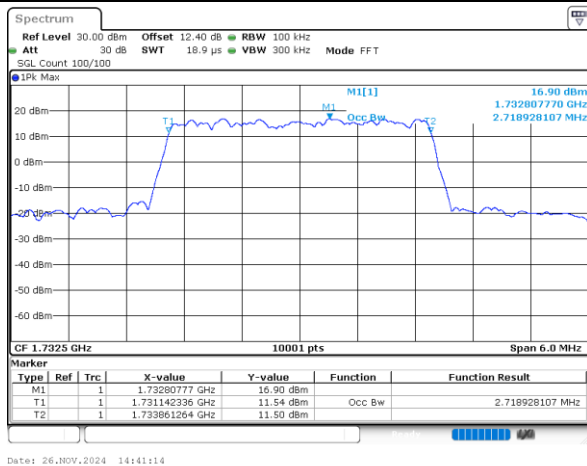
Middle Channel / 1.4MHz / QPSK



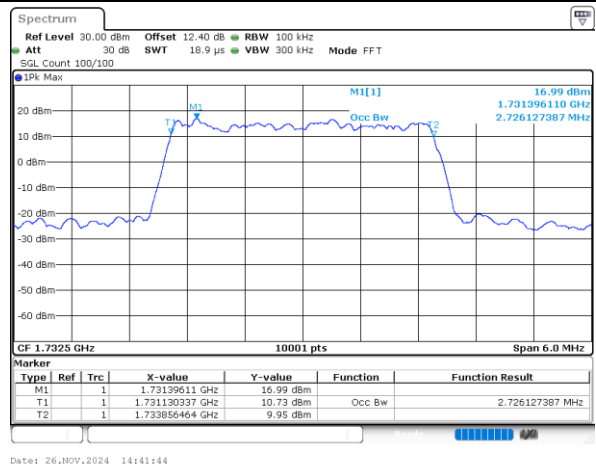
Middle Channel / 1.4MHz / 16QAM



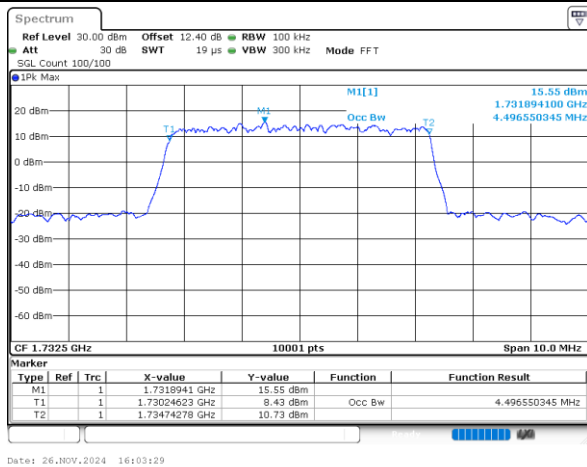
Middle Channel / 3MHz / QPSK



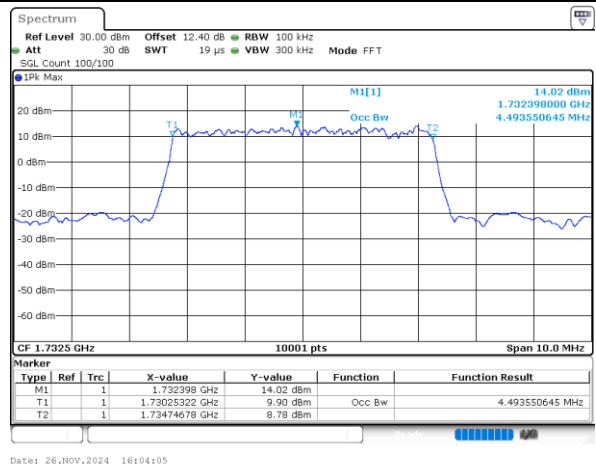
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



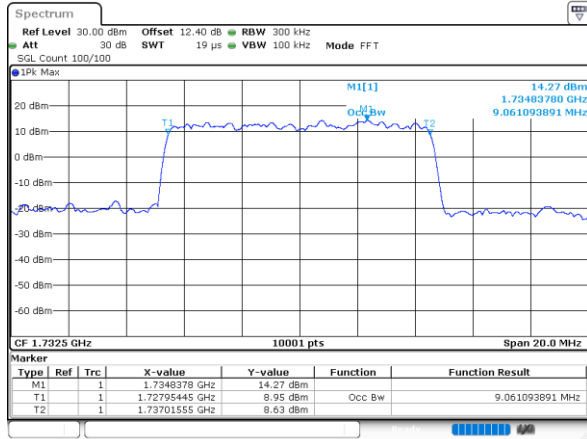
Middle Channel / 5MHz / 16QAM



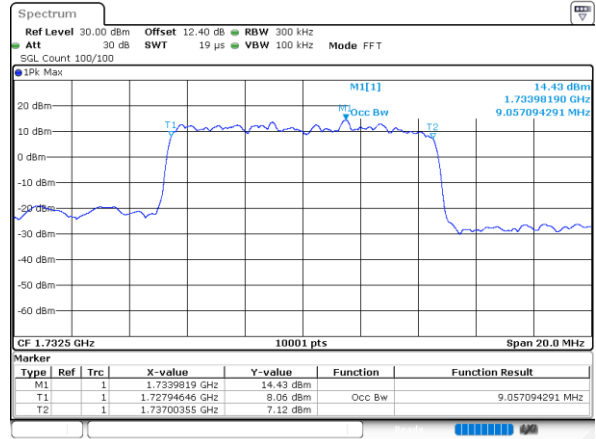


LTE Band 4

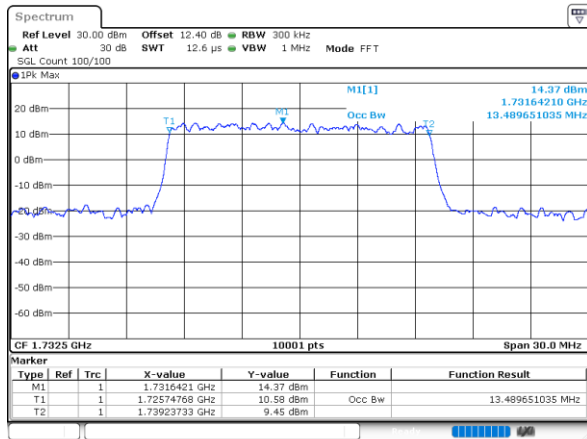
Middle Channel / 10MHz / QPSK



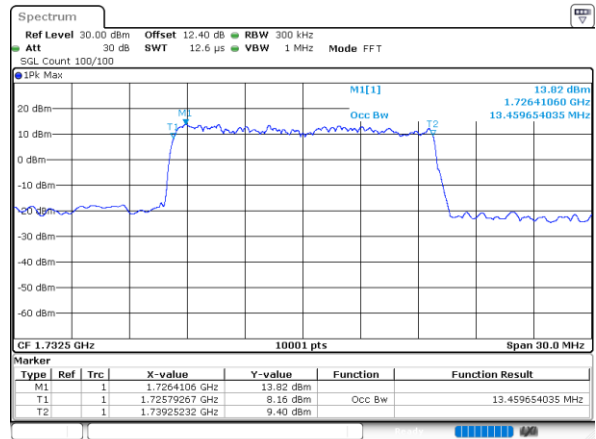
Middle Channel / 10MHz / 16QAM



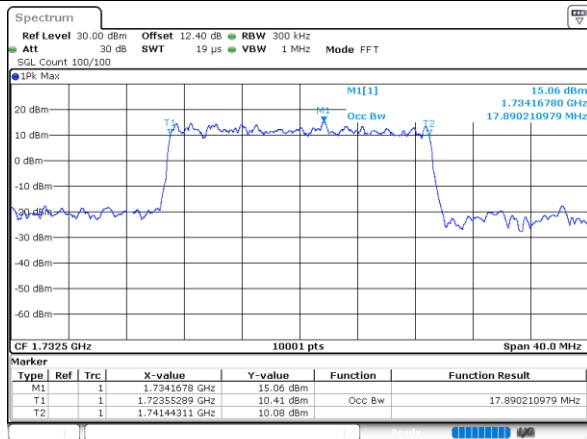
Middle Channel / 15MHz / QPSK



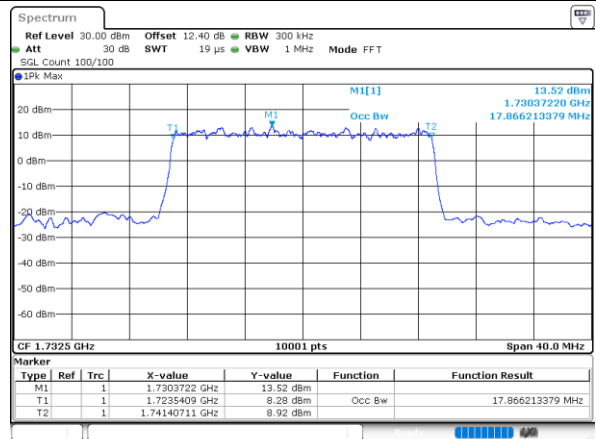
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



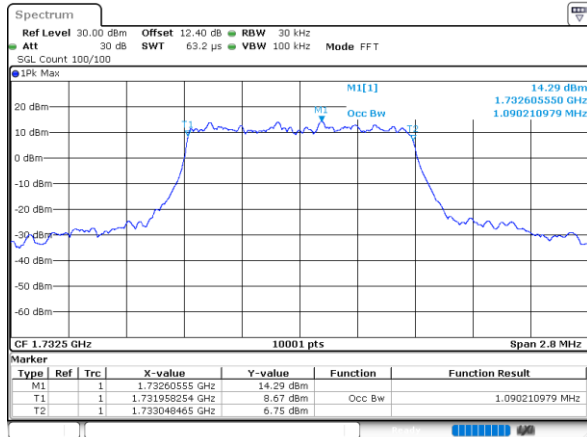
Middle Channel / 20MHz / 16QAM



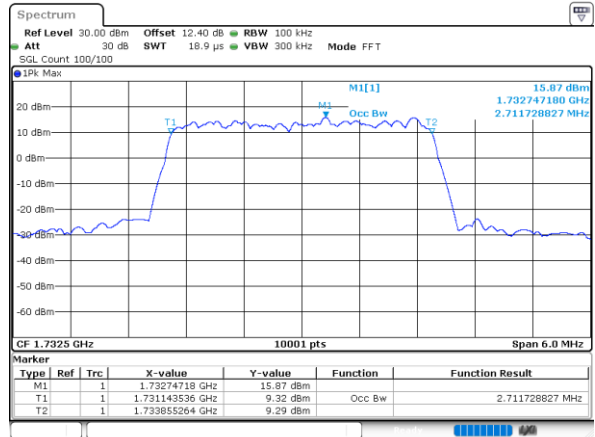


LTE Band 4

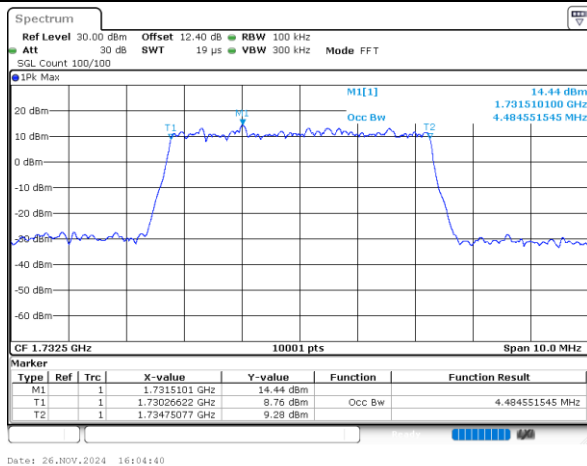
Middle Channel / 1.4MHz / 64QAM



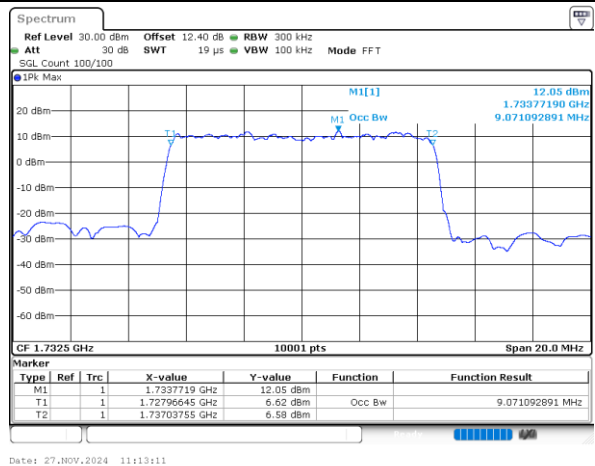
Middle Channel / 3MHz / 64QAM



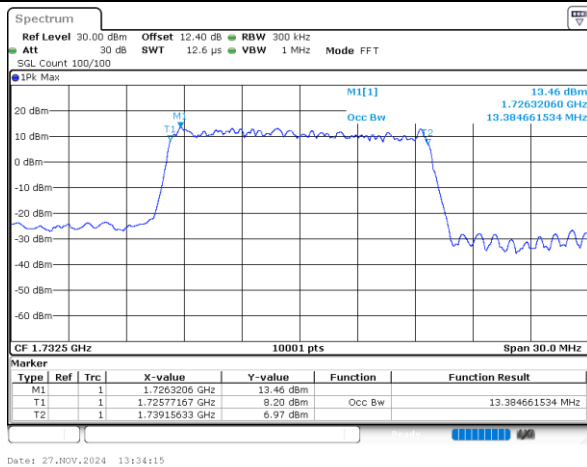
Middle Channel / 5MHz / 64QAM



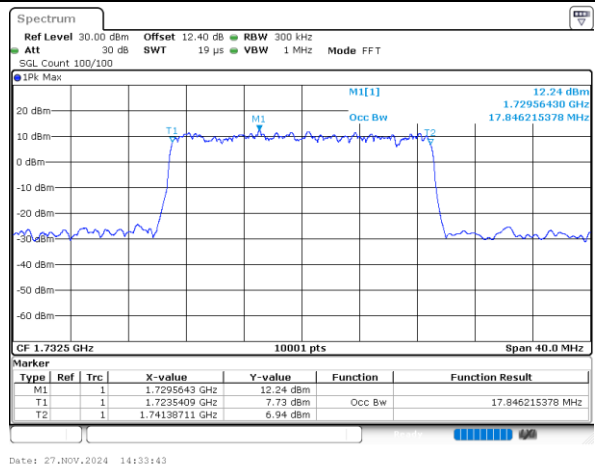
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM

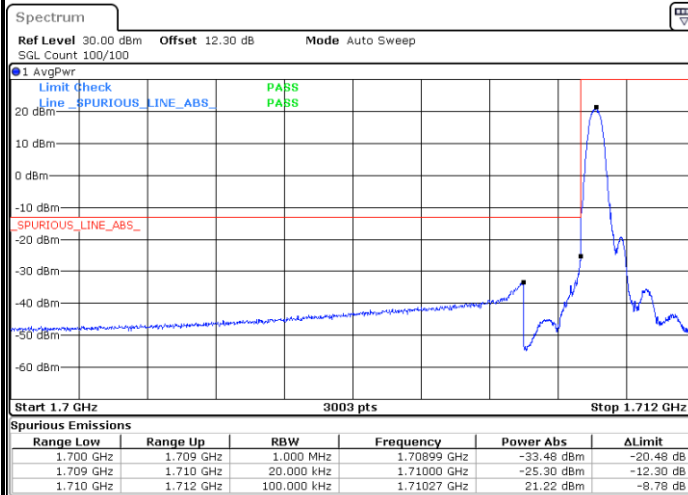




Conducted Band Edge

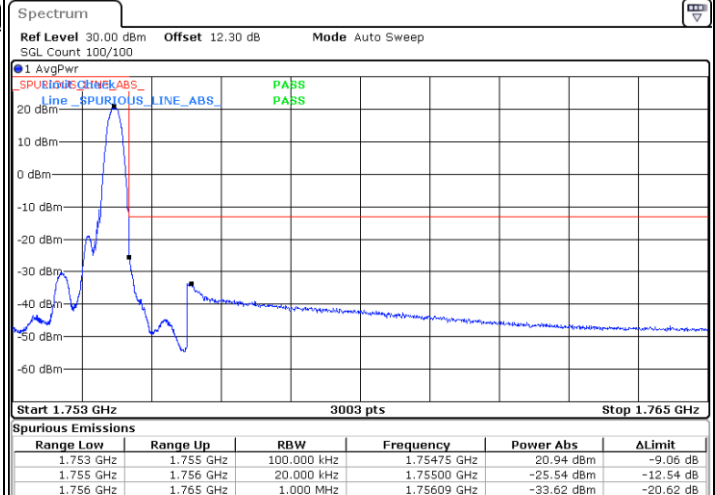
LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



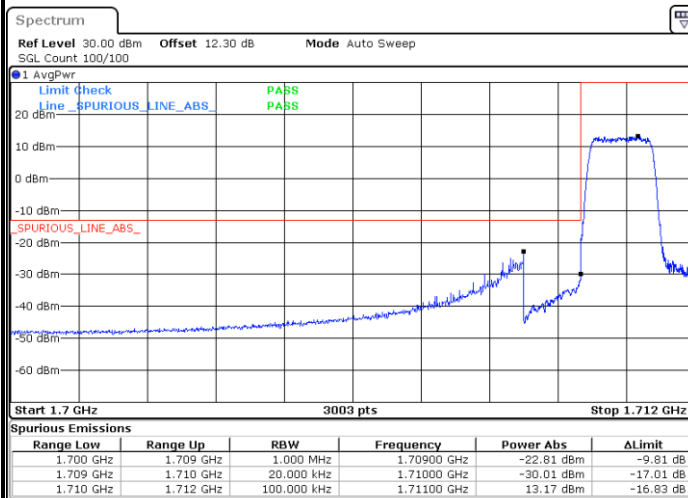
Date: 27.FEB.2025 19:46:58

Highest Band Edge / 1RB



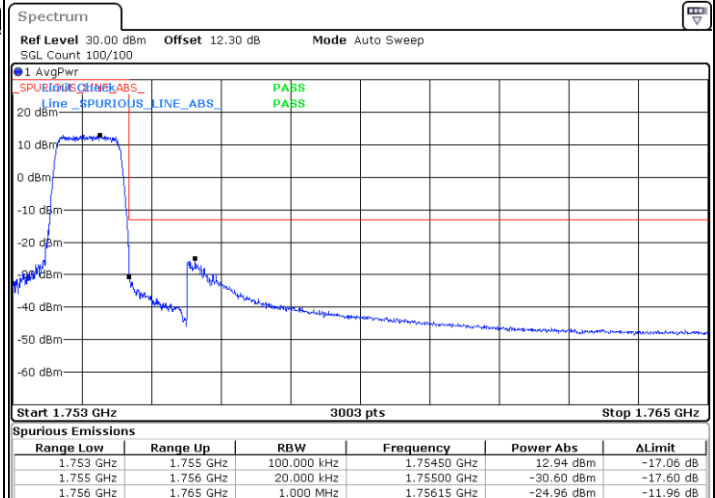
Date: 27.FEB.2025 20:01:28

Lowest Band Edge / Full RB



Date: 27.FEB.2025 19:55:42

Highest Band Edge / Full RB

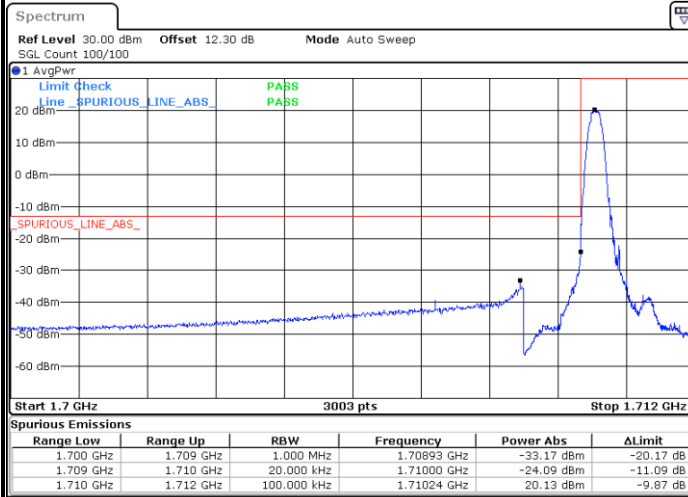


Date: 27.FEB.2025 20:04:05

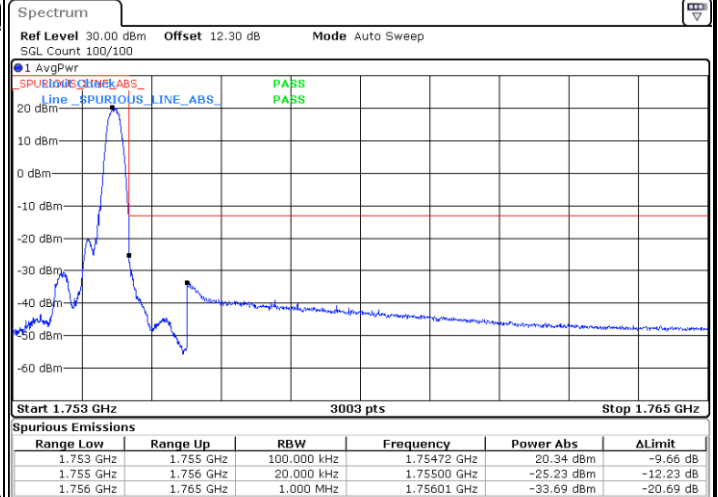


LTE Band 4 / 1.4MHz / 16QAM

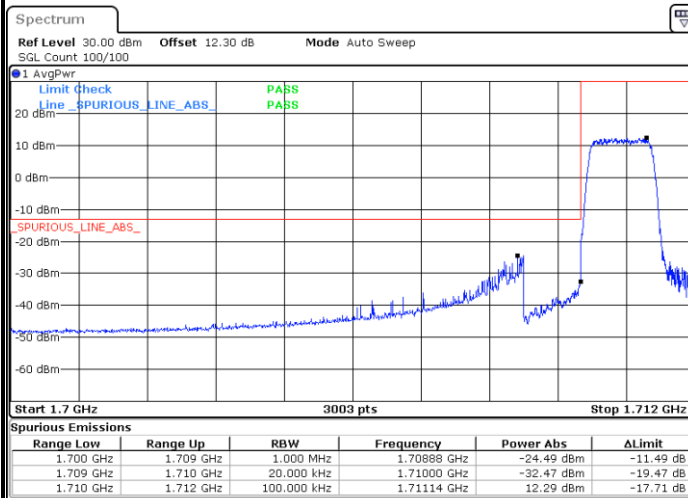
Lowest Band Edge / 1 RB



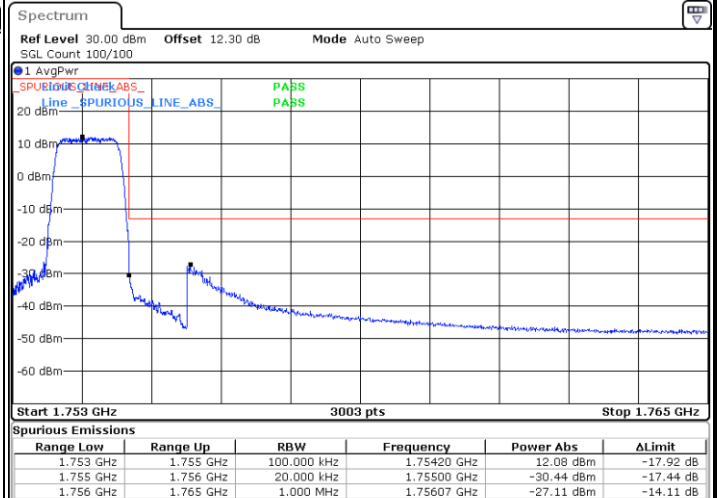
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



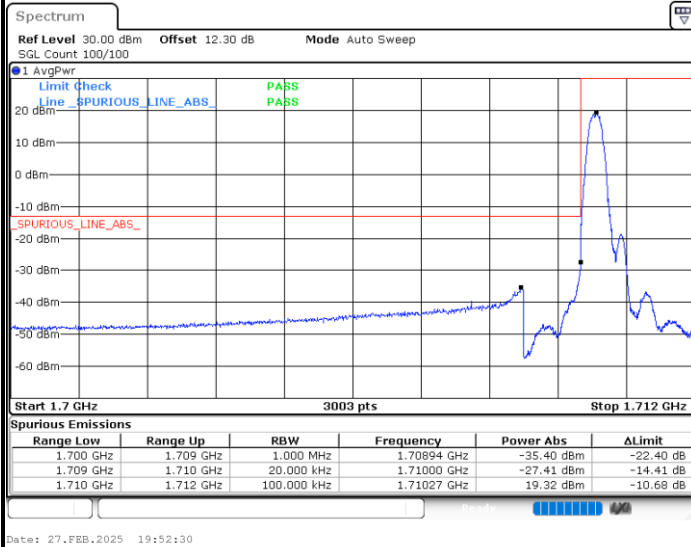
Highest Band Edge / Full RB



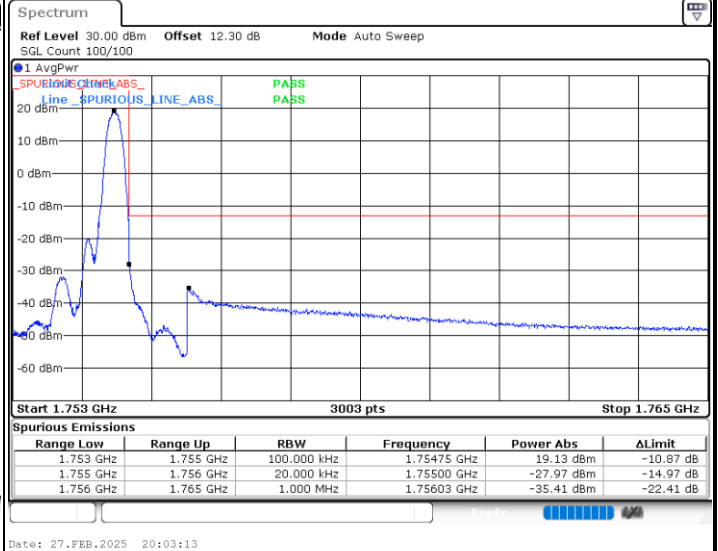


LTE Band 4 / 1.4MHz / 64QAM

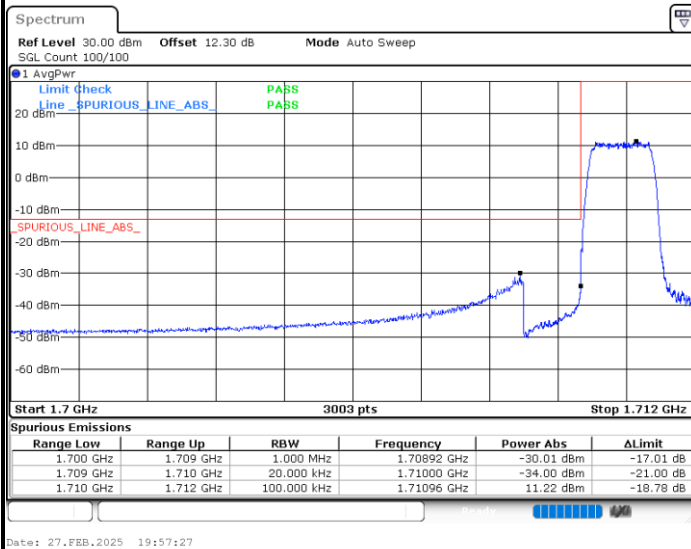
Lowest Band Edge / 1 RB



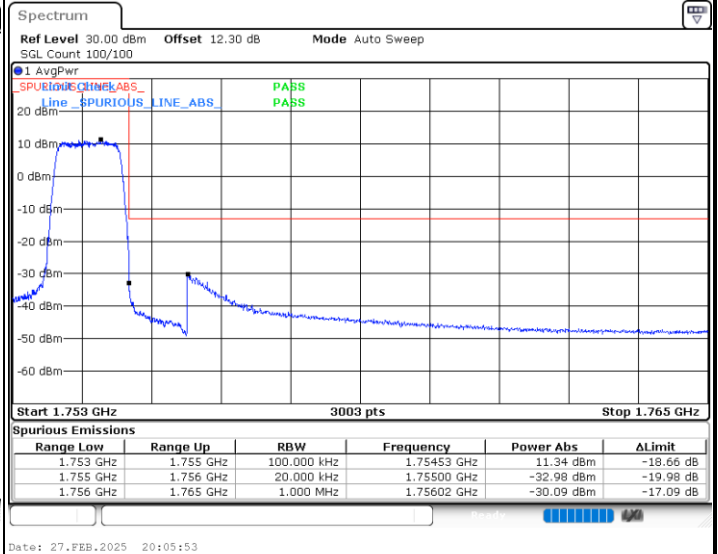
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



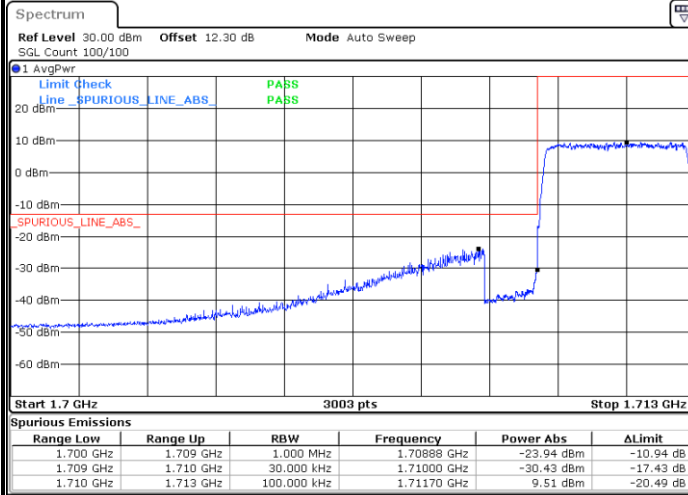
Highest Band Edge / Full RB



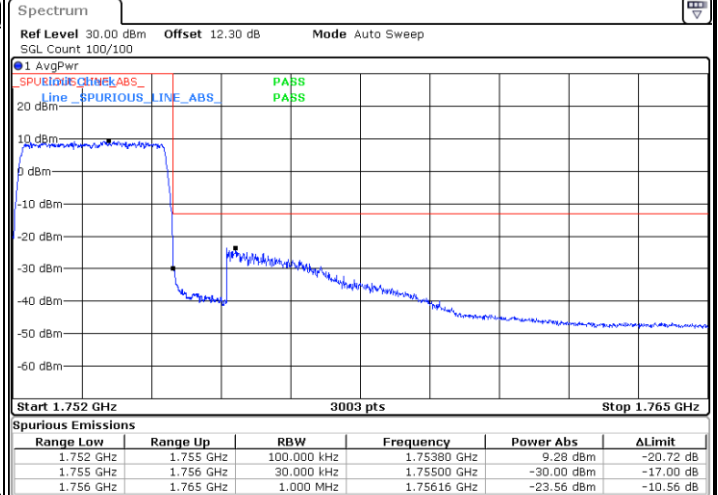


LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / Full RB

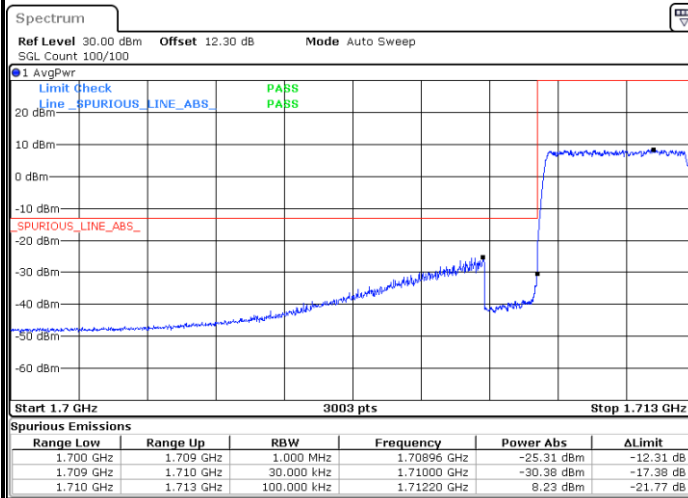


Highest Band Edge / Full RB

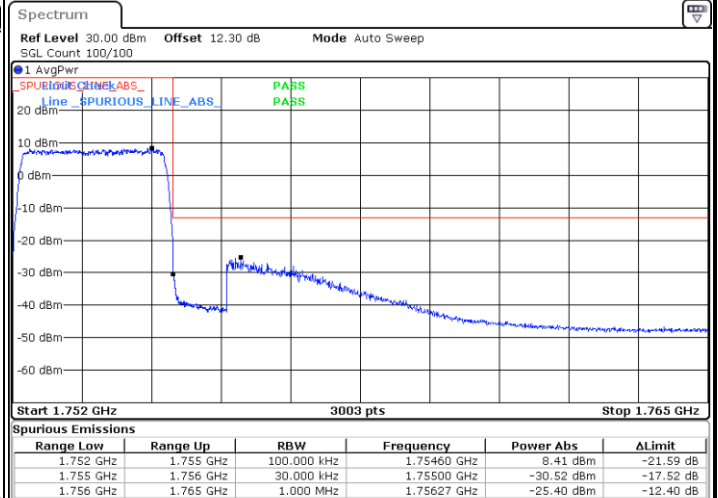


LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

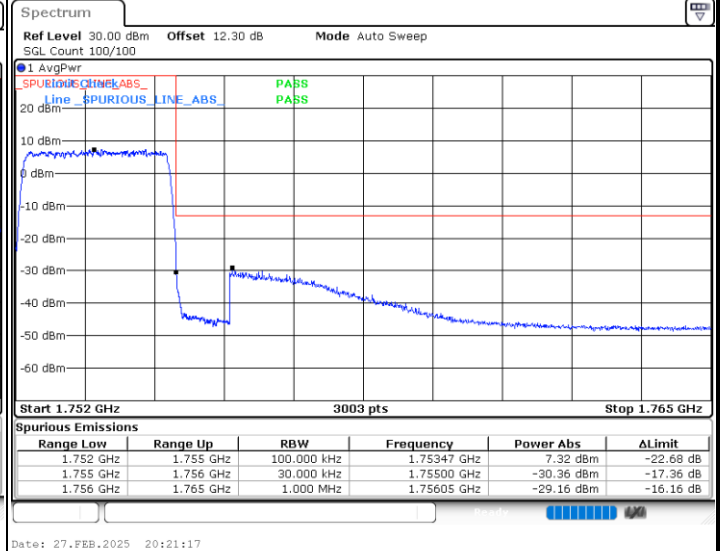
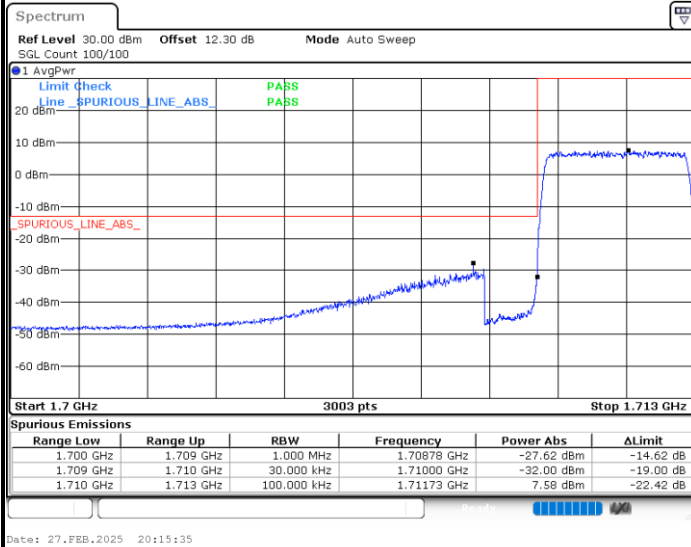




LTE Band 4 / 3MHz / 64QAM

Lowest Band Edge / Full RB

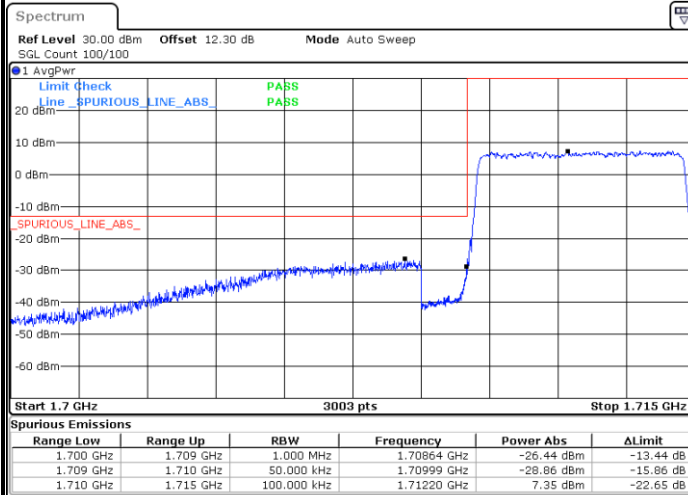
Highest Band Edge / Full RB



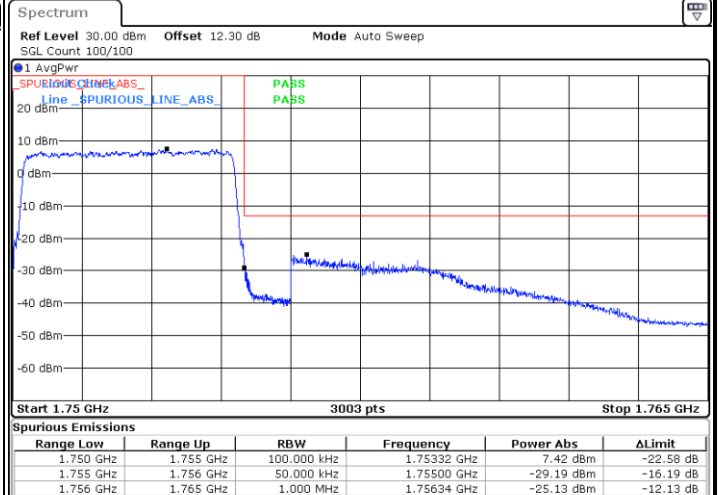


LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / Full RB

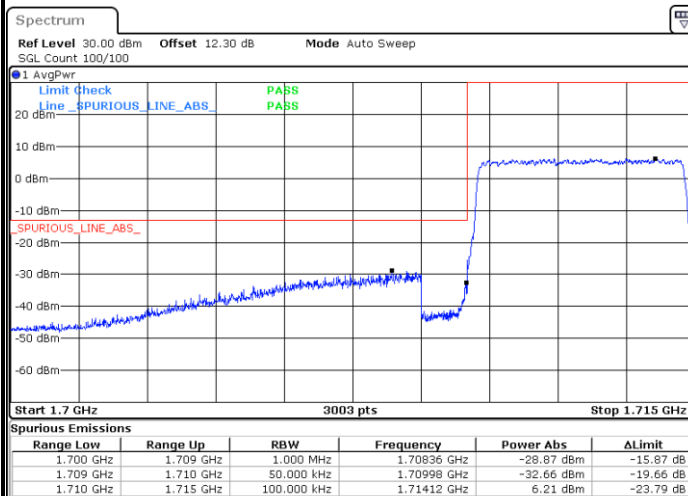


Highest Band Edge / Full RB

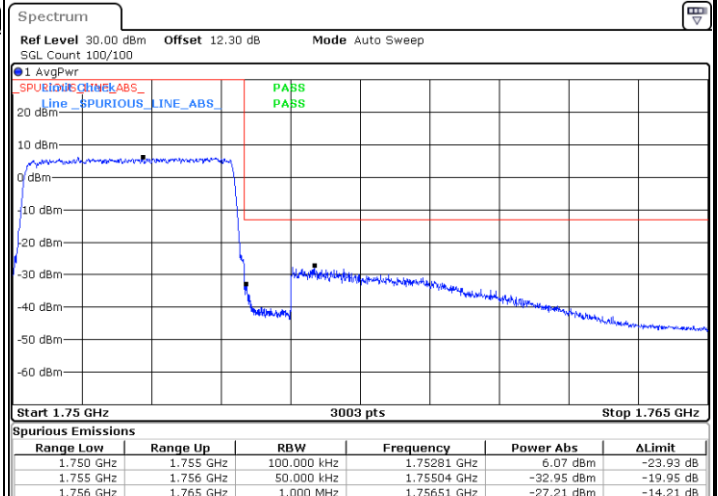


LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

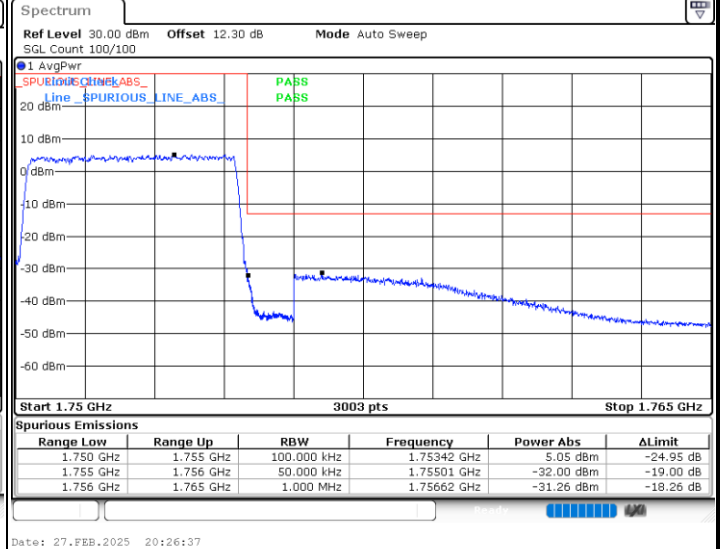
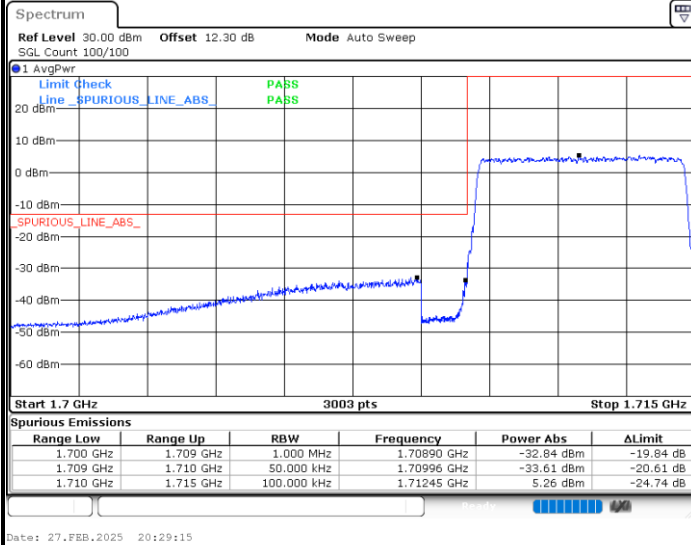




LTE Band 4 / 5MHz / 64QAM

Lowest Band Edge / Full RB

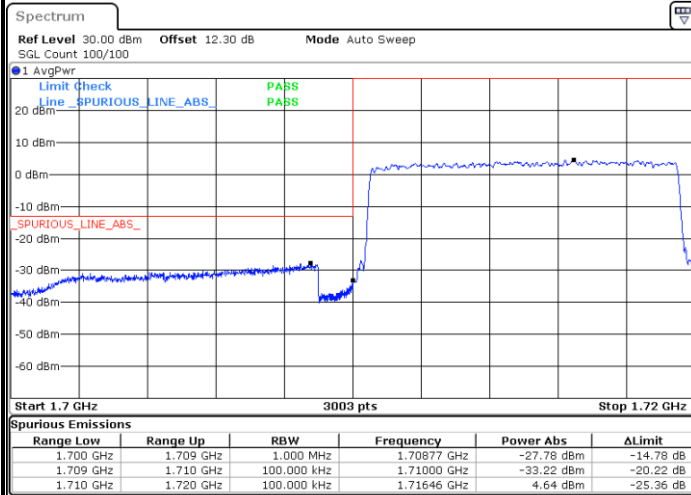
Highest Band Edge / Full RB



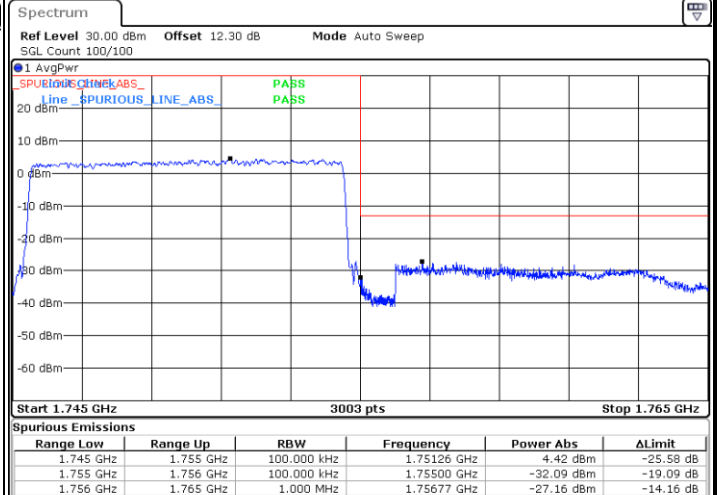


LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / Full RB

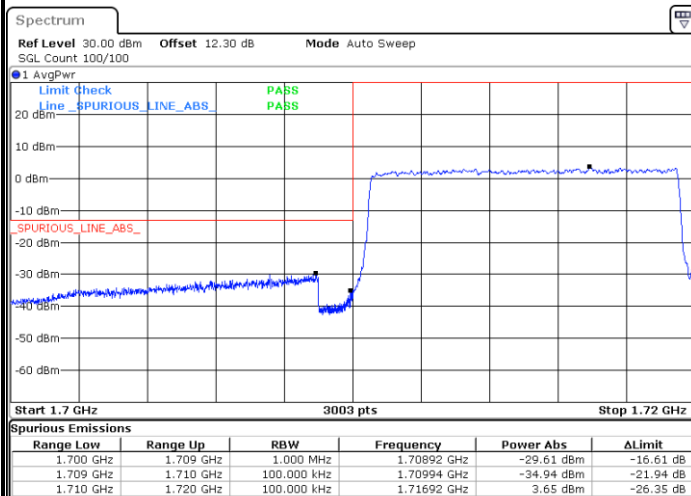


Highest Band Edge / Full RB

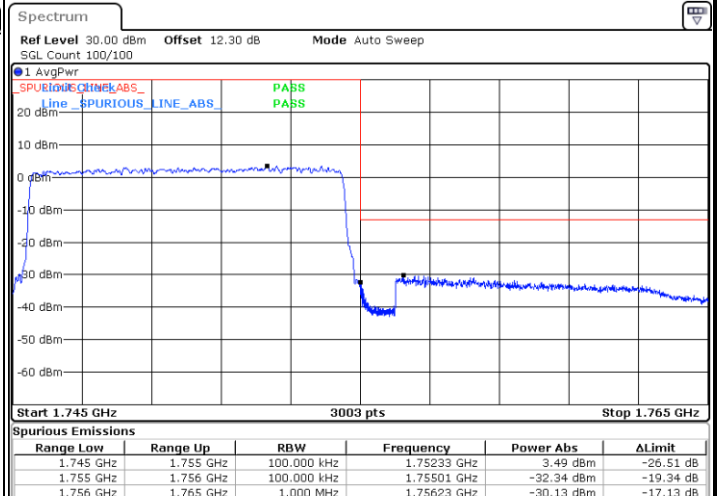


LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

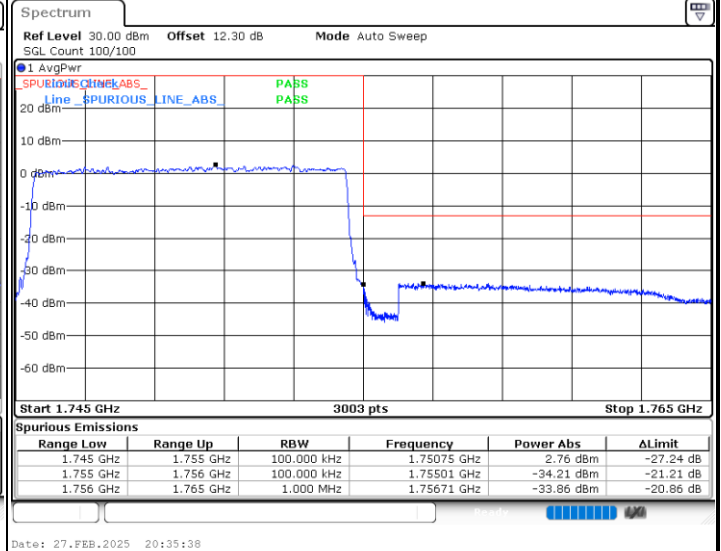
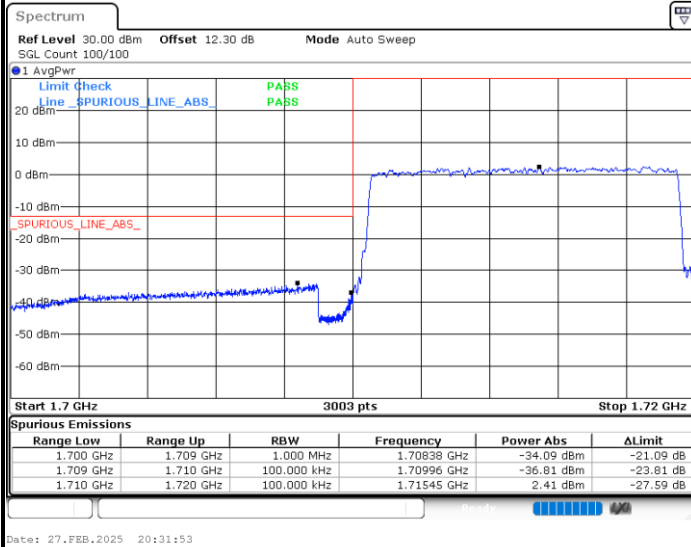




LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / Full RB

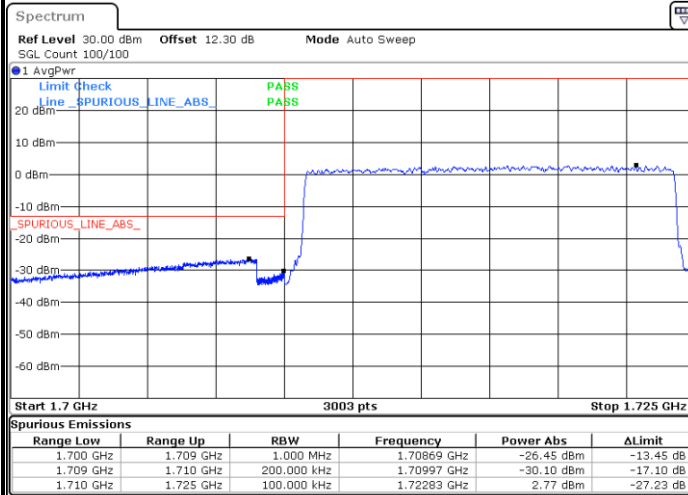
Highest Band Edge / Full RB



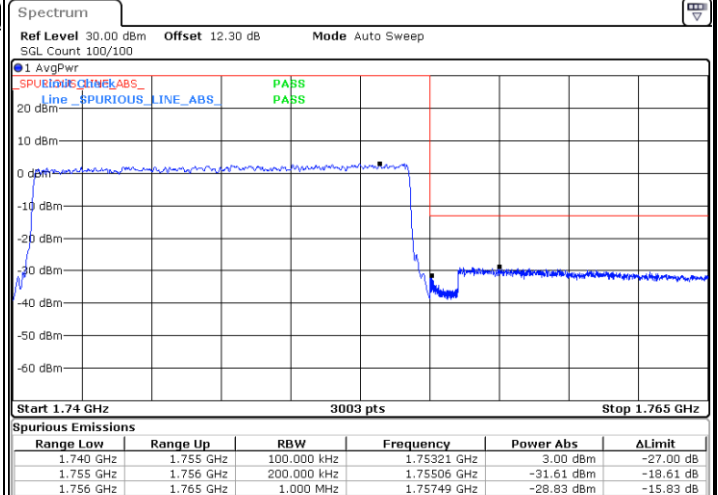


LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / Full RB

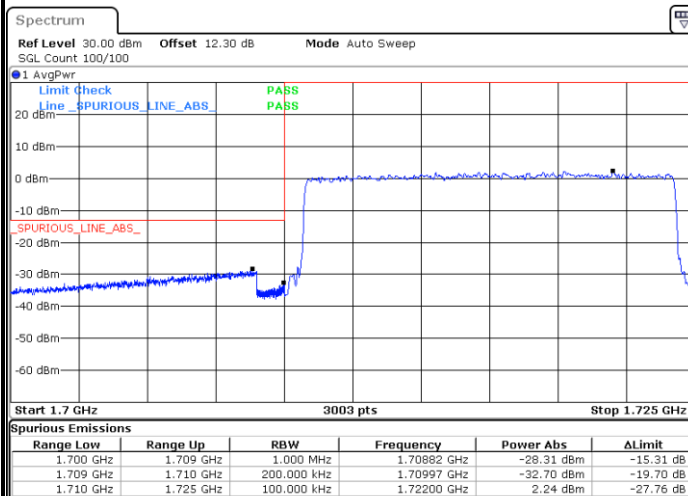


Highest Band Edge / Full RB

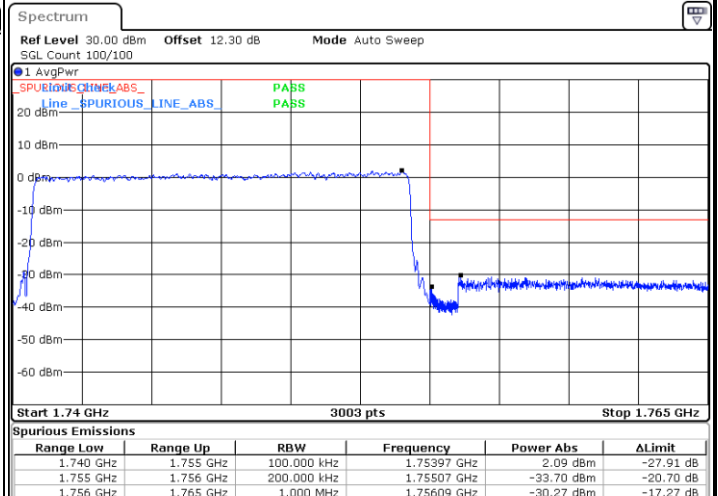


LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

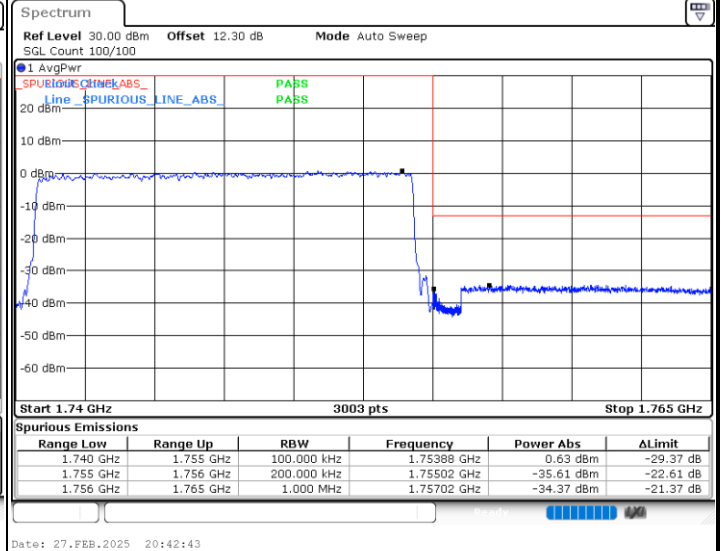
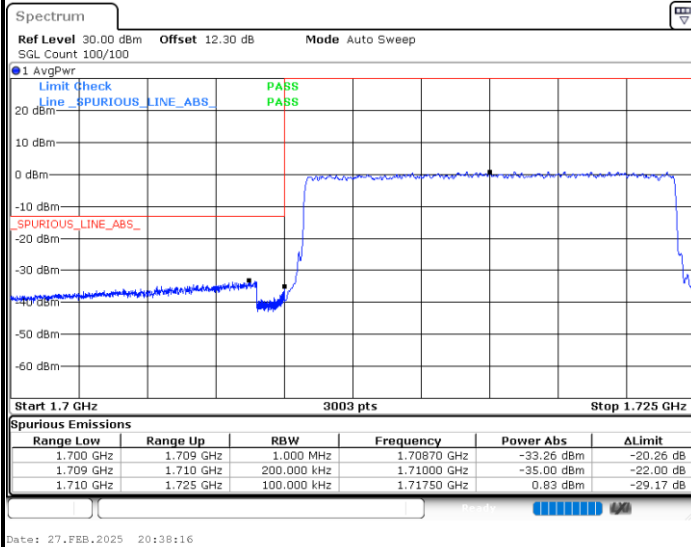




LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / Full RB

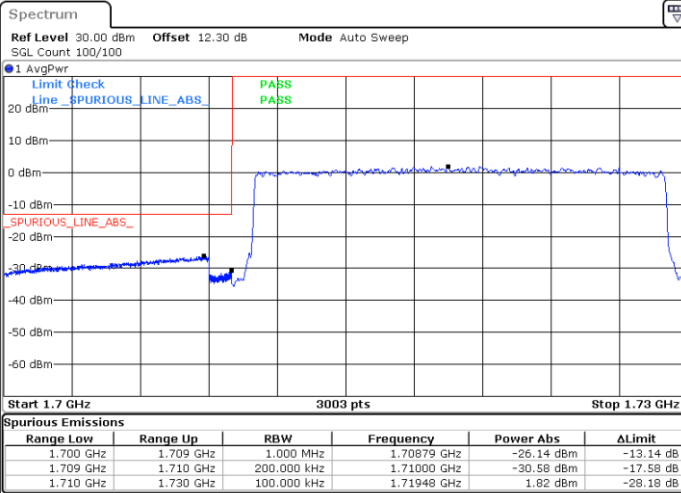
Highest Band Edge / Full RB



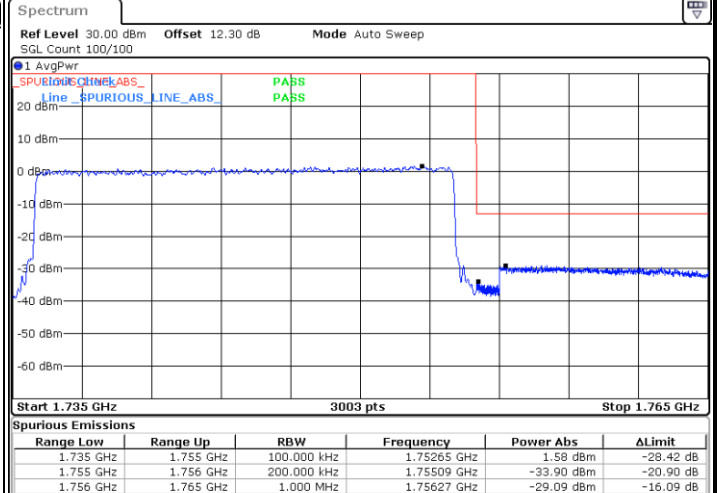


LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / Full RB

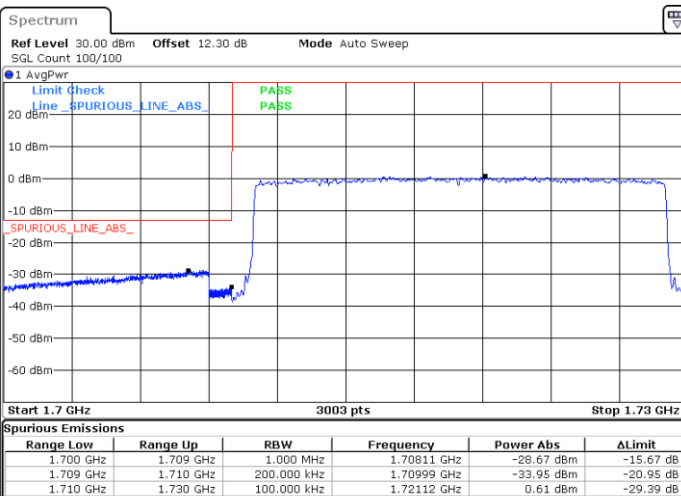


Highest Band Edge / Full RB

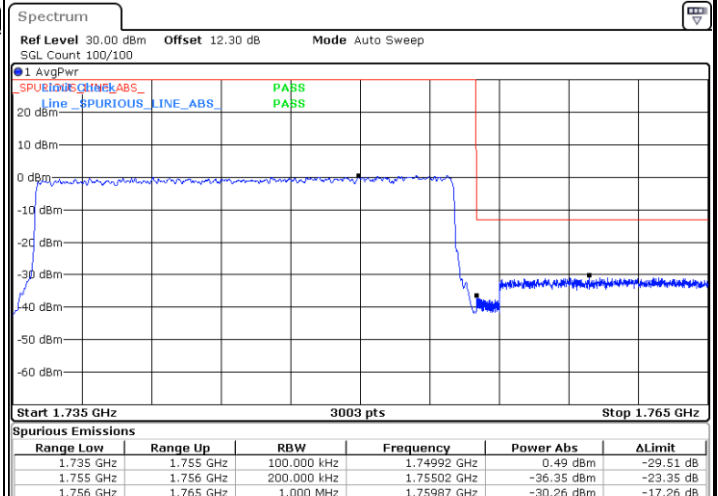


LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

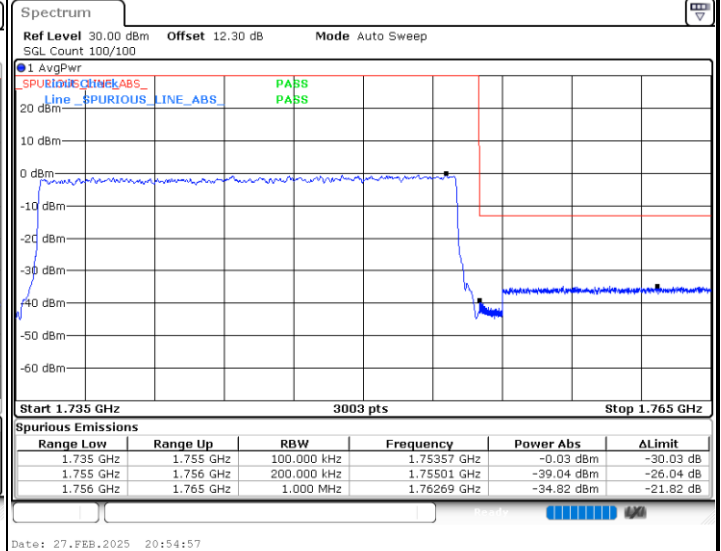
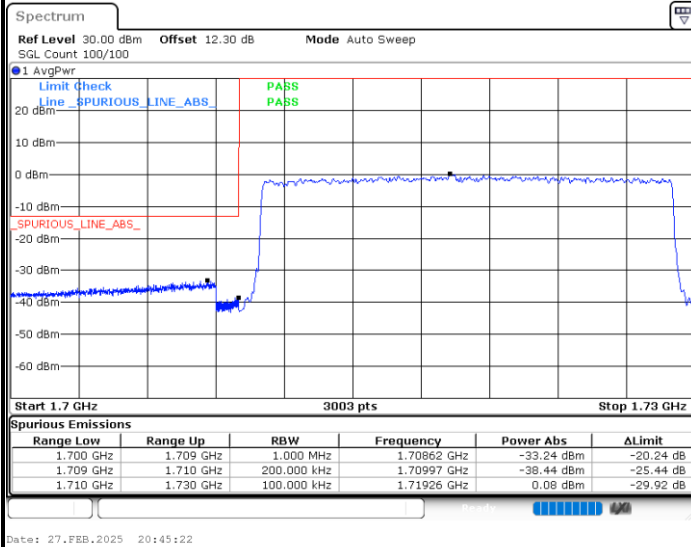




LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

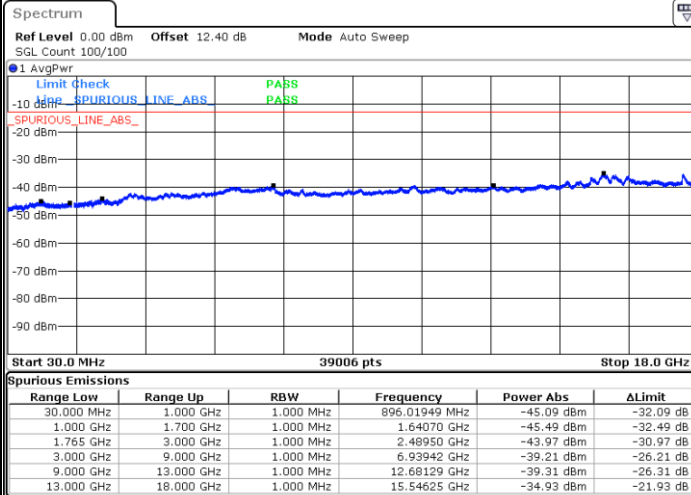




Conducted Spurious Emission

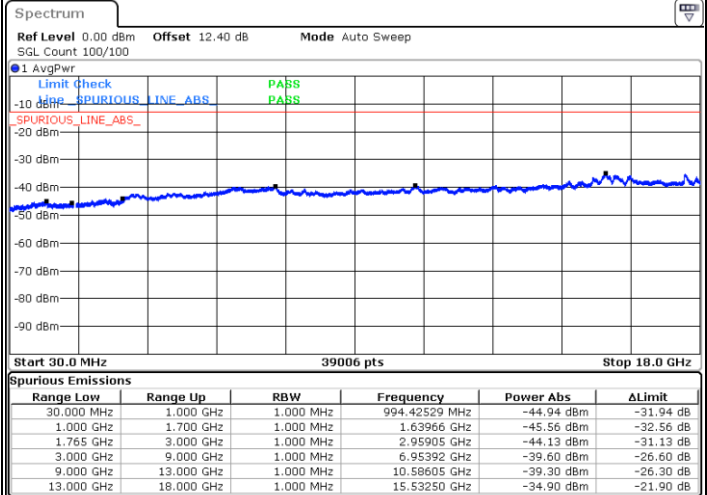
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



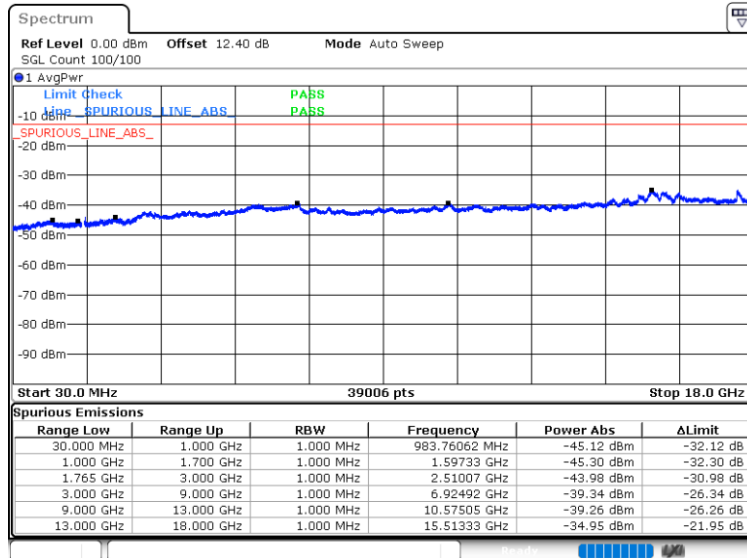
Date: 26.NOV.2024 13:53:25

Middle Channel / QPSK



Date: 26.NOV.2024 13:54:50

Highest Channel / QPSK

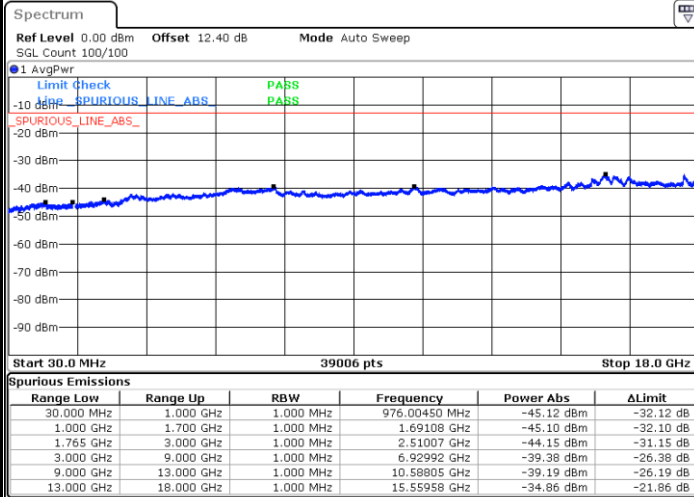


Date: 26.NOV.2024 13:56:13



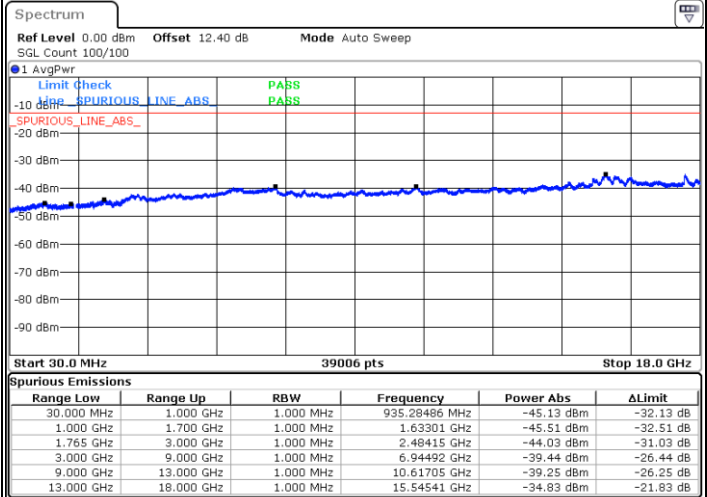
LTE Band 4 / 3MHz

Lowest Channel / QPSK



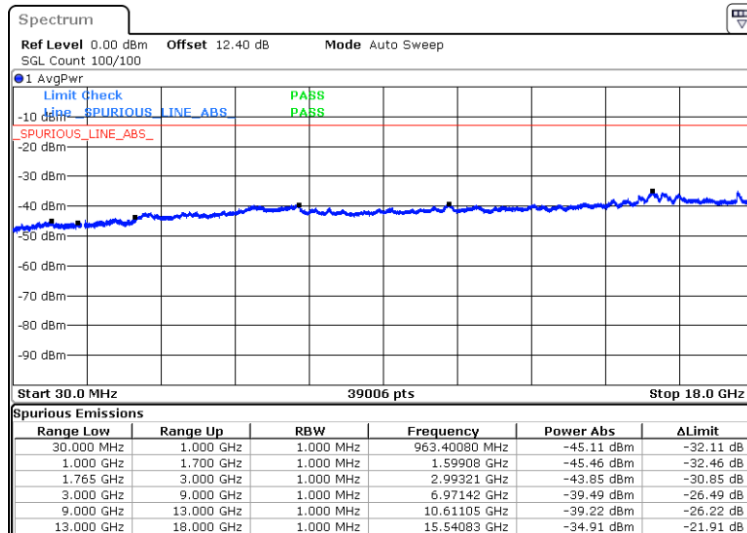
Date: 26.NOV.2024 14:45:11

Middle Channel / QPSK



Date: 26.NOV.2024 14:46:33

Highest Channel / QPSK

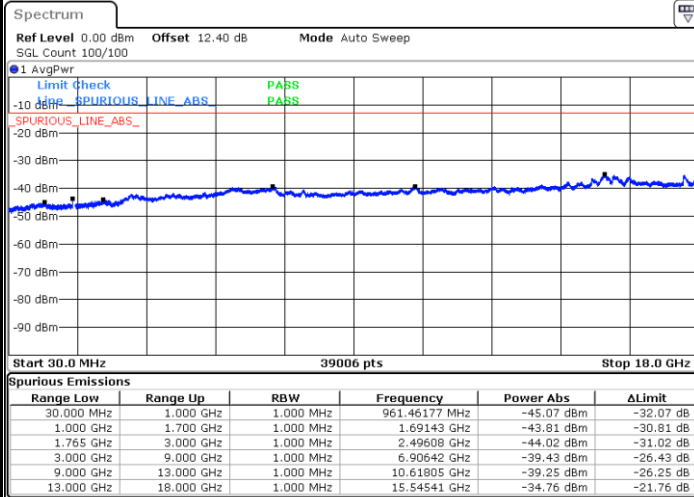


Date: 26.NOV.2024 14:47:59



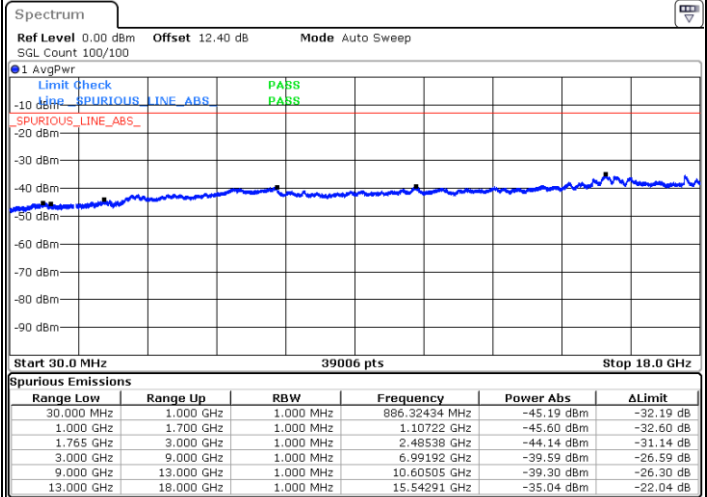
LTE Band 4 / 5MHz

Lowest Channel / QPSK



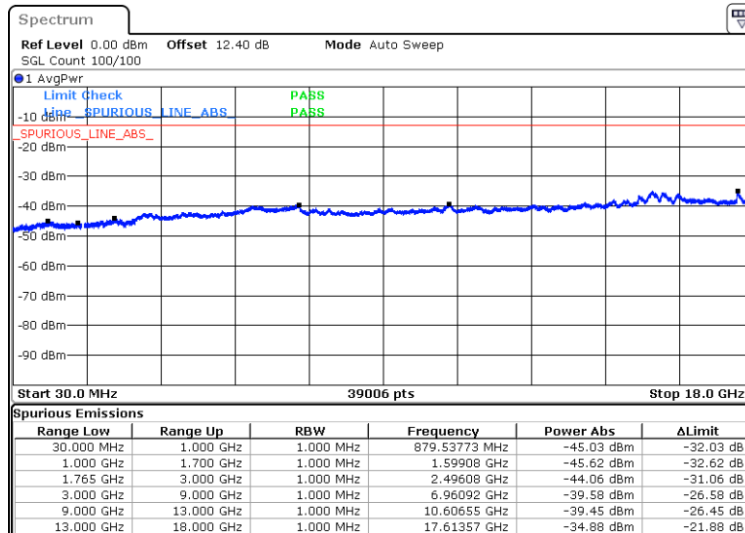
Date: 26.NOV.2024 16:07:53

Middle Channel / QPSK



Date: 26.NOV.2024 16:25:13

Highest Channel / QPSK



Date: 26.NOV.2024 16:31:43