



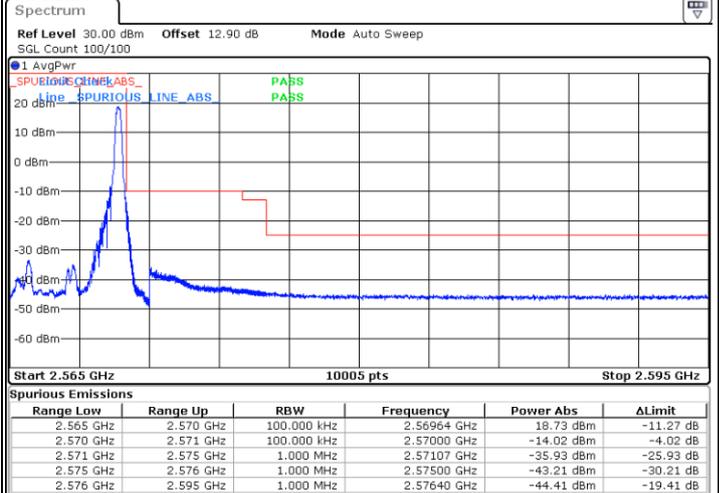
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



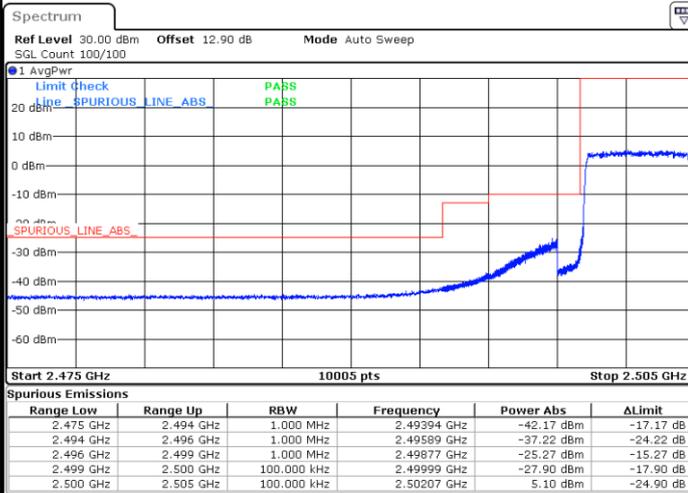
Date: 5.MAR.2025 23:54:54

Highest Band Edge / 1 RB



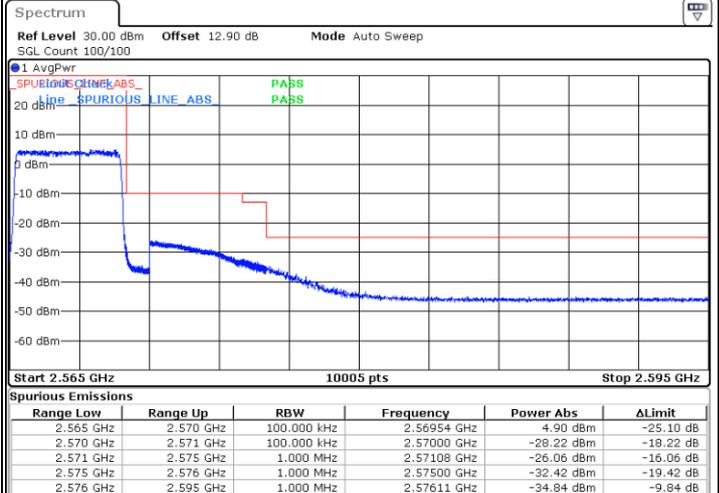
Date: 6.MAR.2025 00:00:10

Lowest Band Edge / Full RB



Date: 5.MAR.2025 23:57:32

Highest Band Edge / Full RB



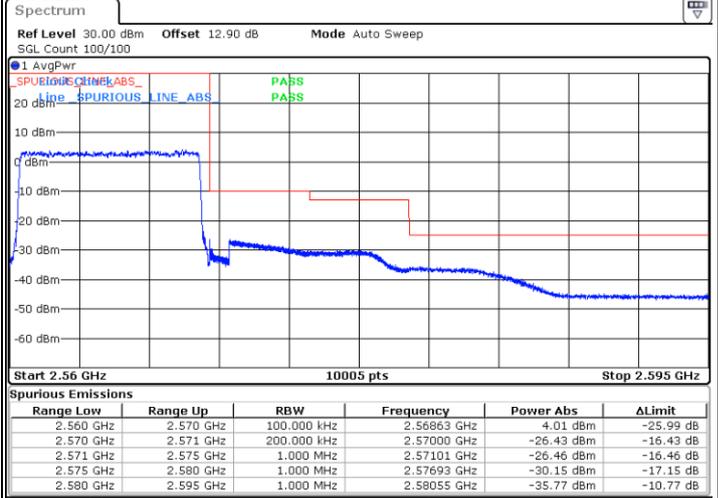
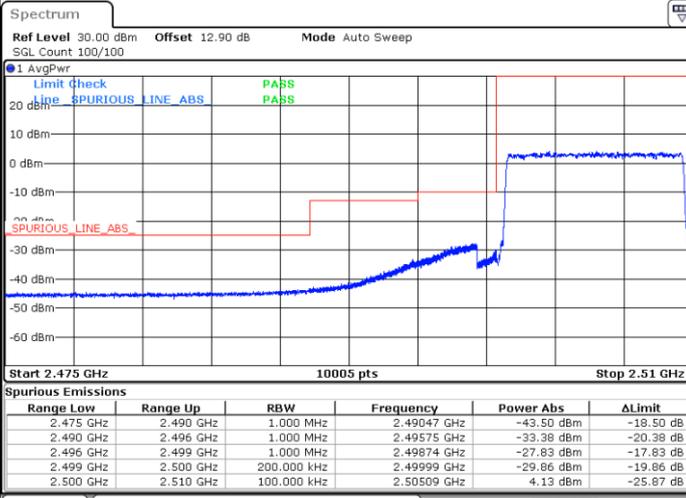
Date: 6.MAR.2025 00:02:48



LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



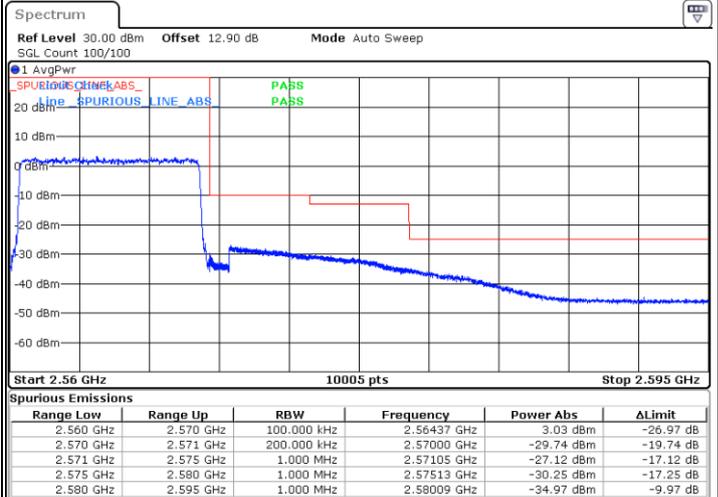
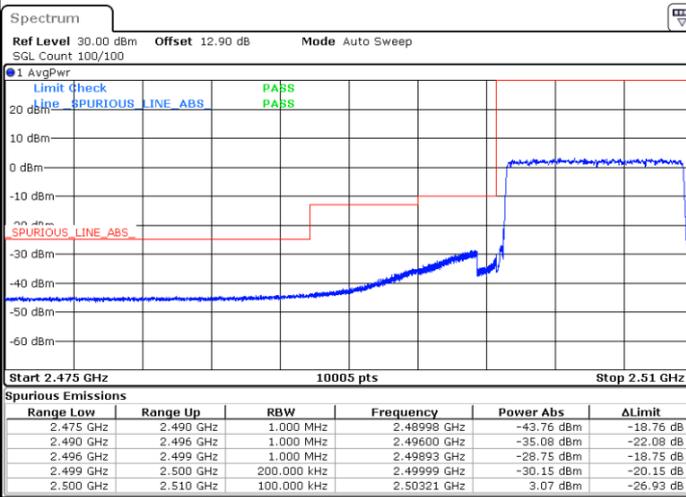
Date: 6.MAR.2025 00:03:41

Date: 6.MAR.2025 00:06:19

LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



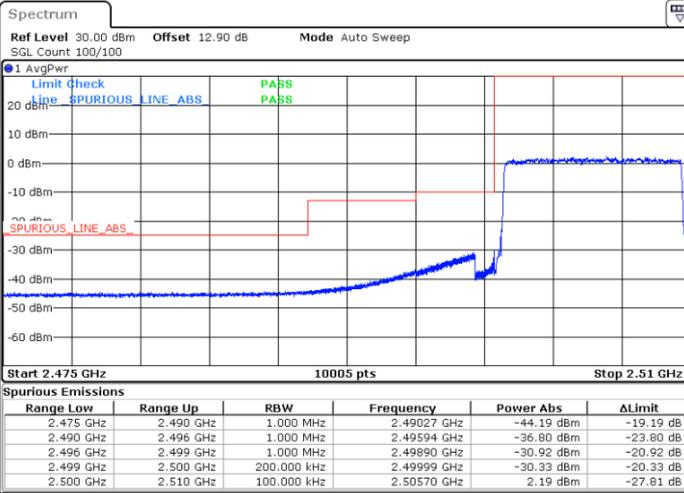
Date: 6.MAR.2025 00:04:34

Date: 6.MAR.2025 00:07:11



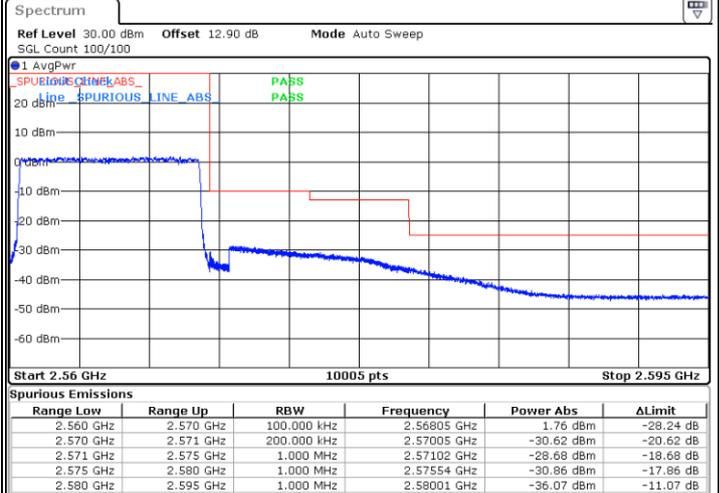
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / Full RB



Date: 6.MAR.2025 00:05:26

Highest Band Edge / Full RB



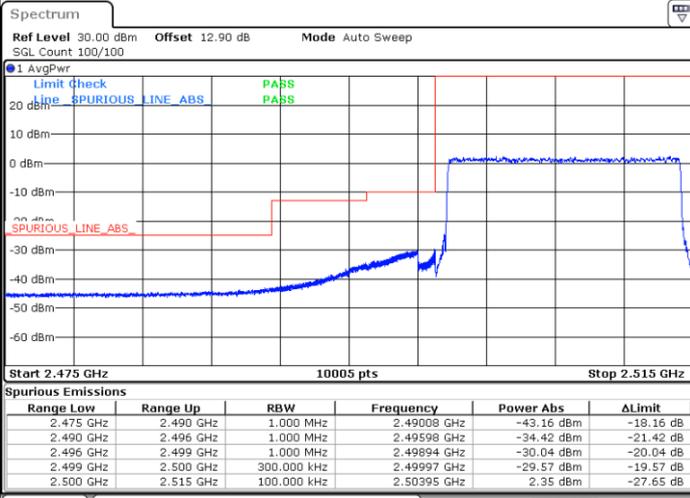
Date: 6.MAR.2025 00:08:04



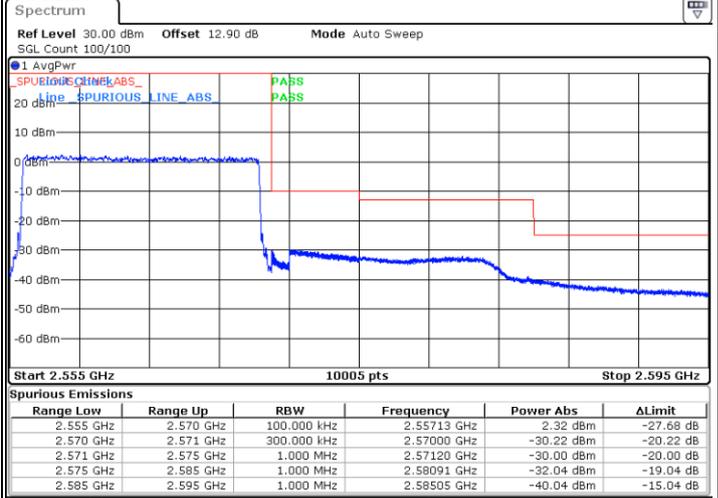
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6.MAR.2025 00:08:57

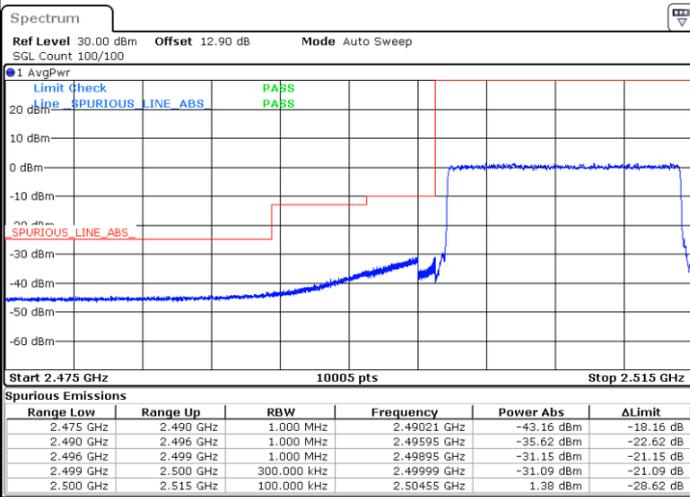


Date: 6.MAR.2025 00:11:35

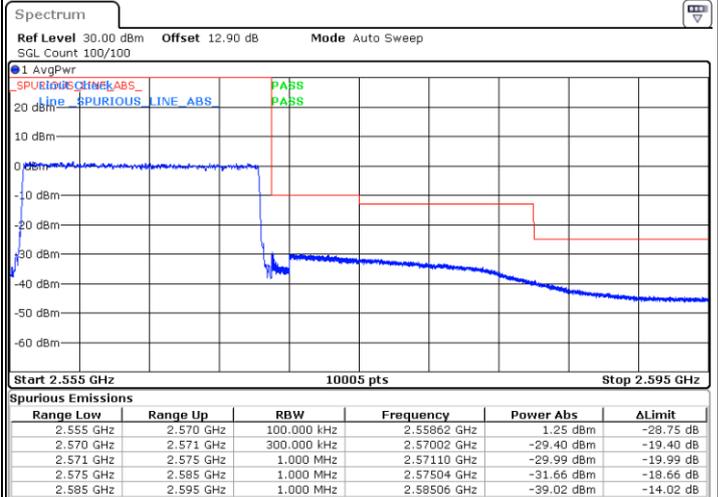
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6.MAR.2025 00:09:50



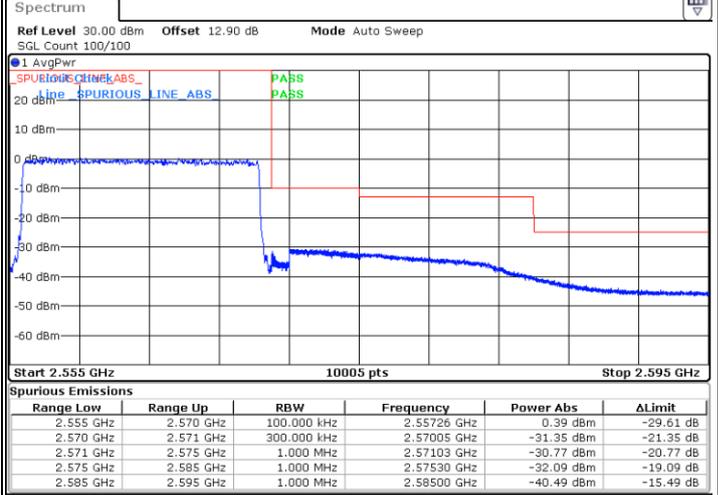
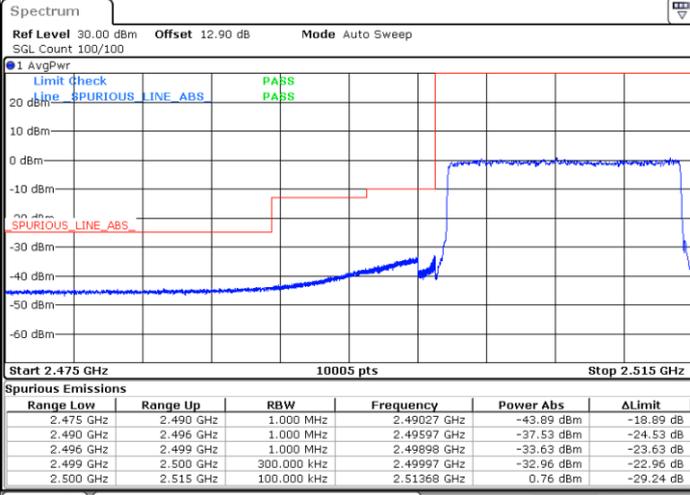
Date: 6.MAR.2025 00:12:28



LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6.MAR.2025 00:10:43

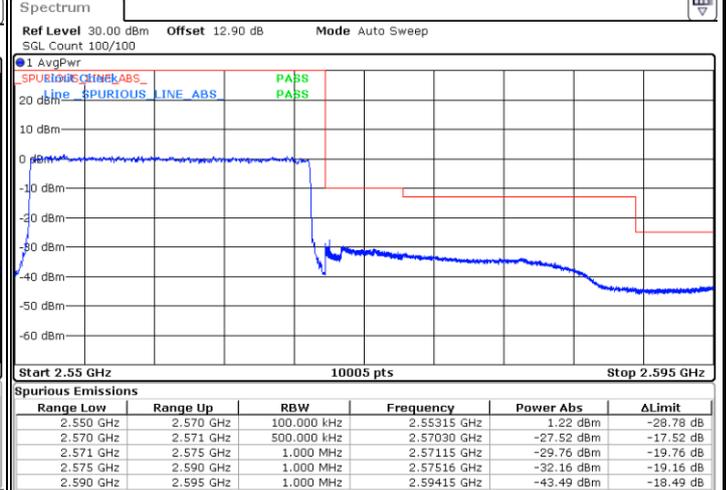
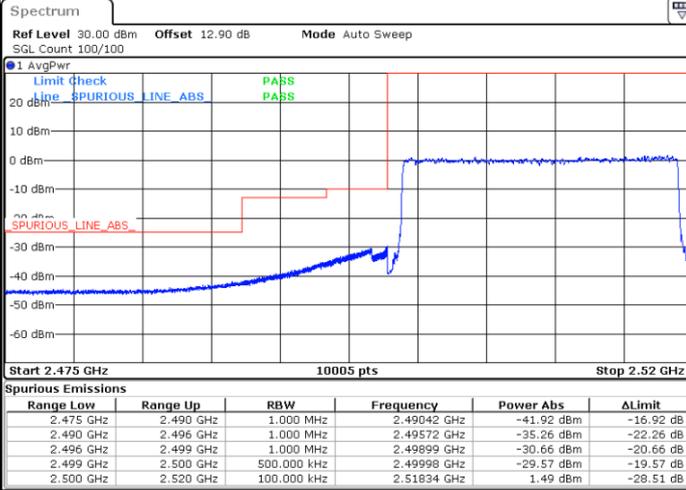
Date: 6.MAR.2025 00:13:20



LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



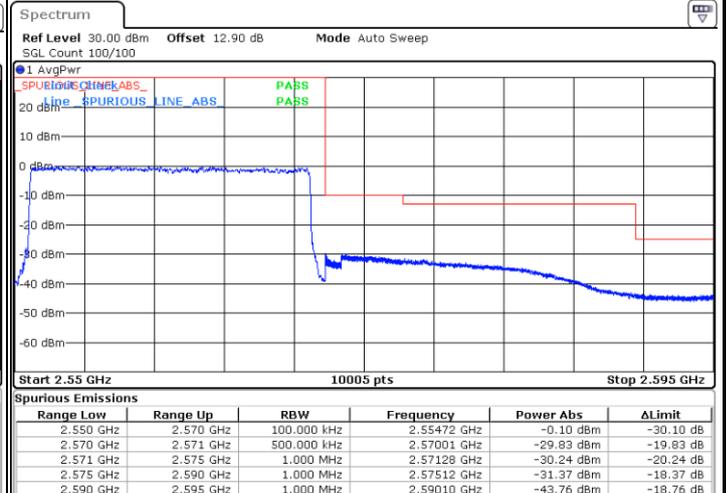
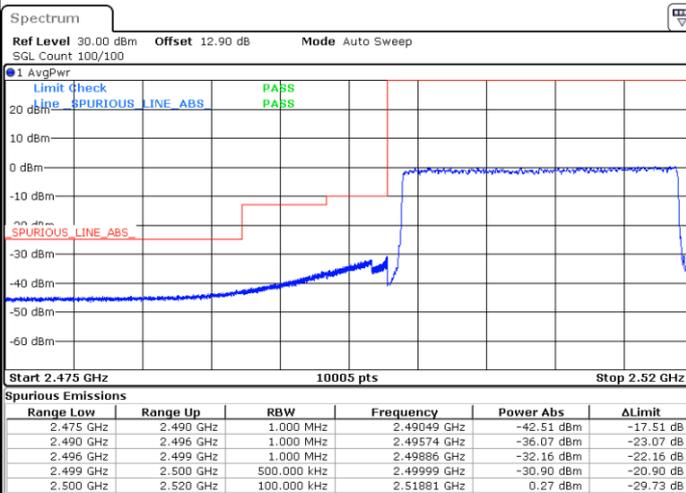
Date: 6.MAR.2025 00:14:14

Date: 6.MAR.2025 00:16:52

LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



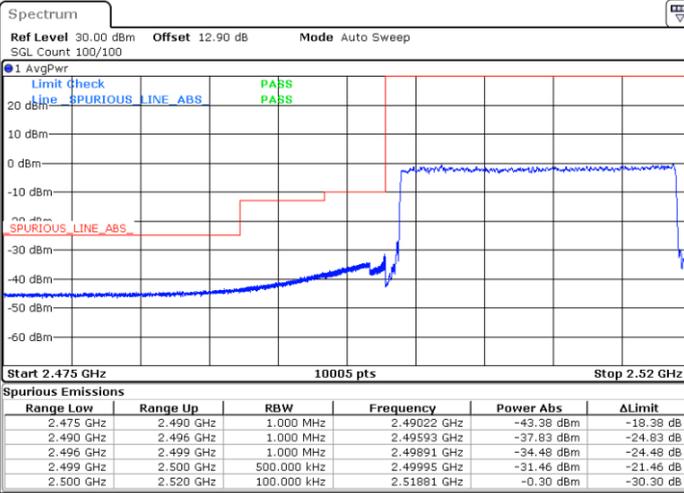
Date: 6.MAR.2025 00:15:06

Date: 6.MAR.2025 00:17:45



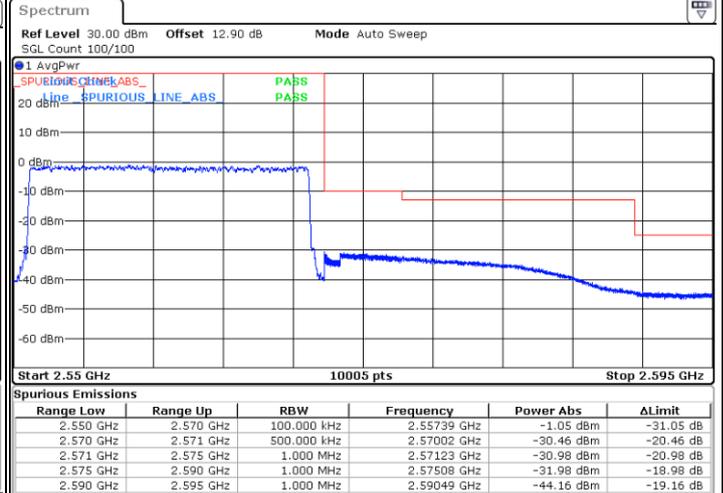
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / Full RB



Date: 6.MAR.2025 00:15:59

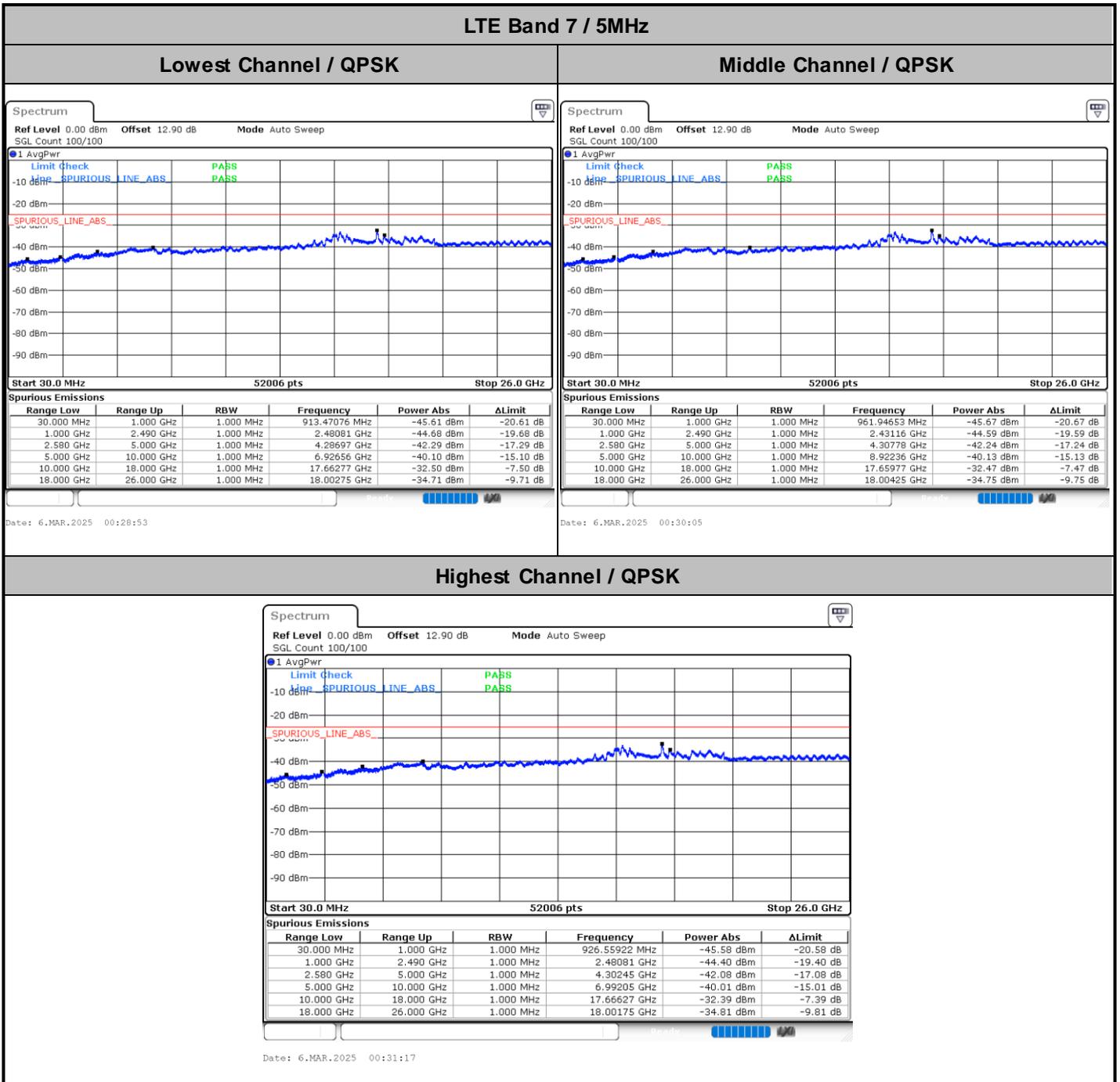
Highest Band Edge / Full RB



Date: 6.MAR.2025 00:18:37



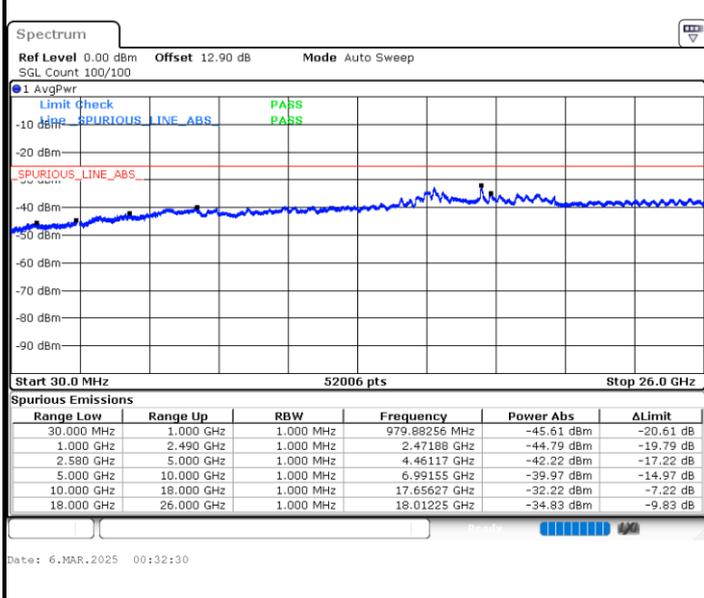
# Conducted Spurious Emission



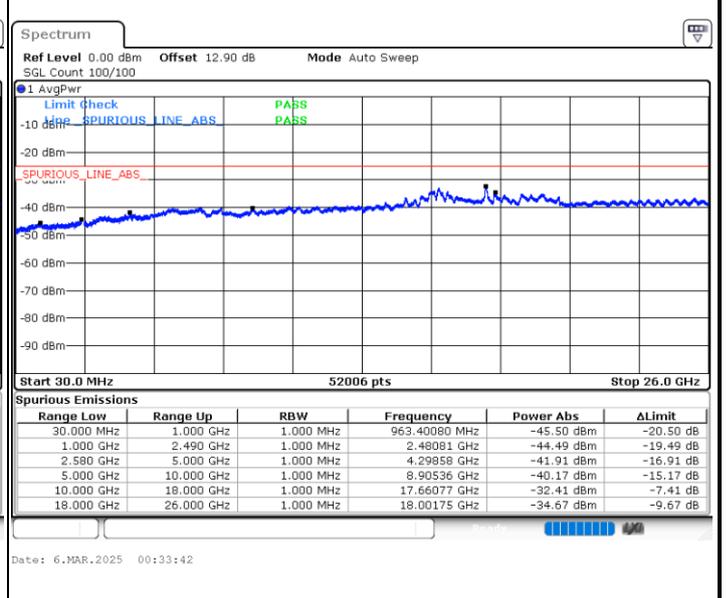


**LTE Band 7 / 10MHz**

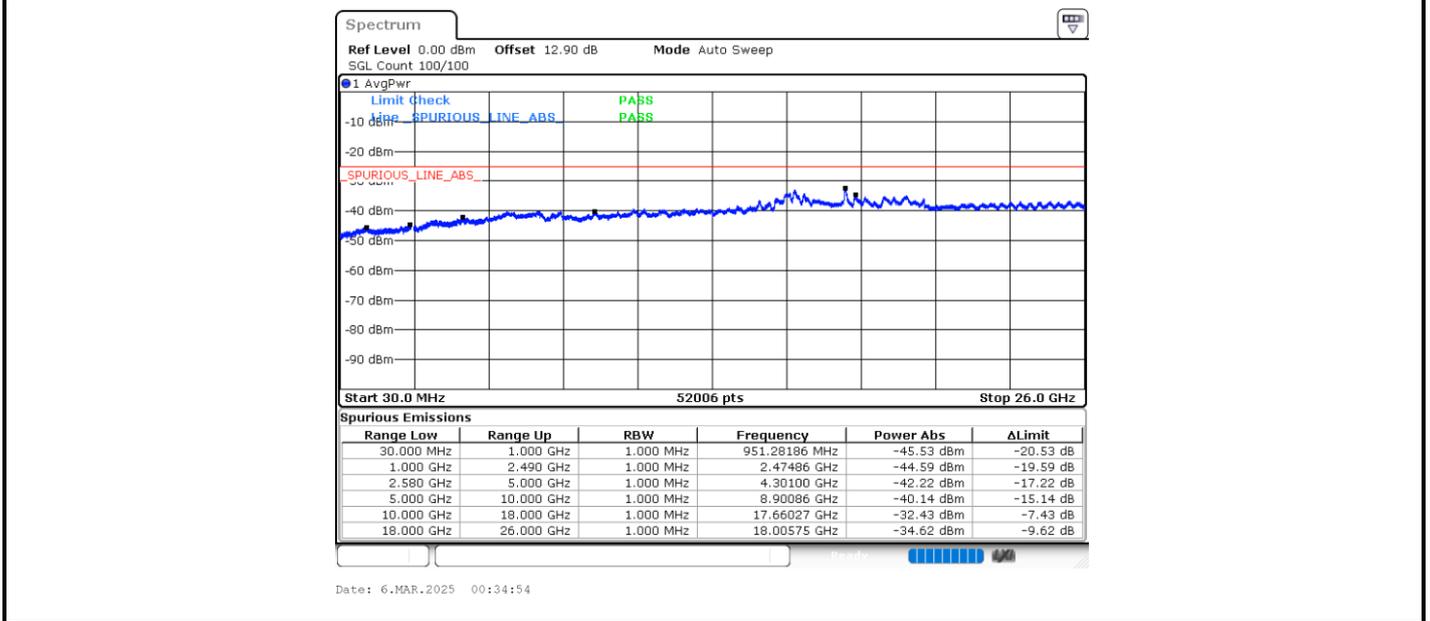
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



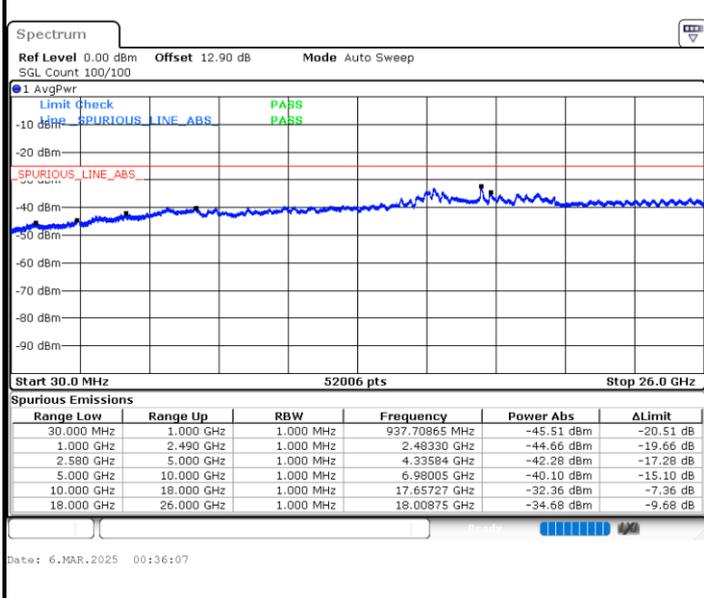
**Highest Channel / QPSK**



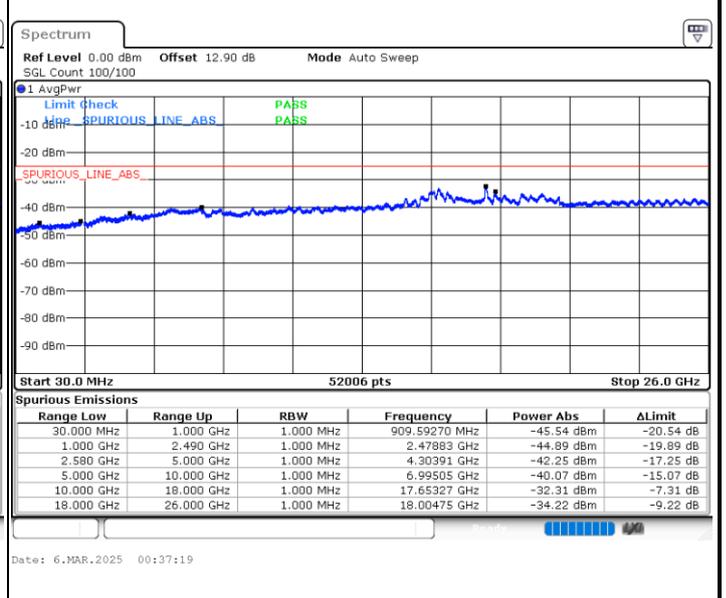


**LTE Band 7 / 15MHz**

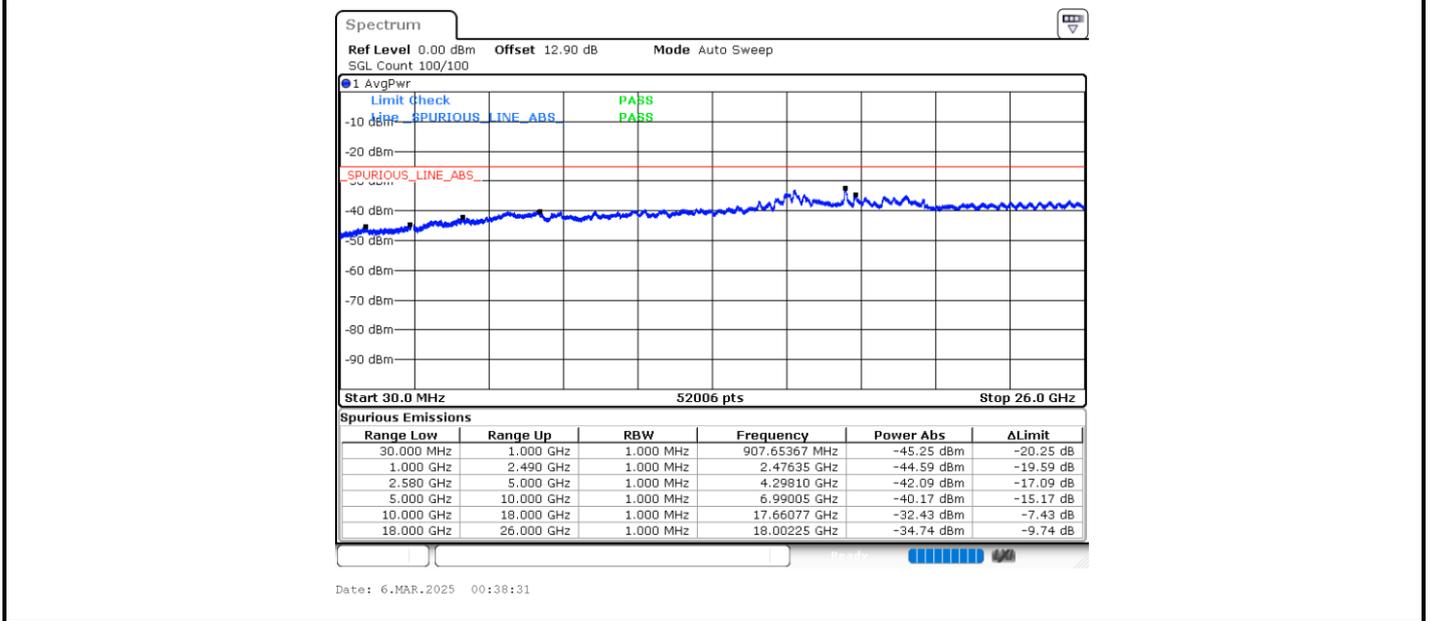
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

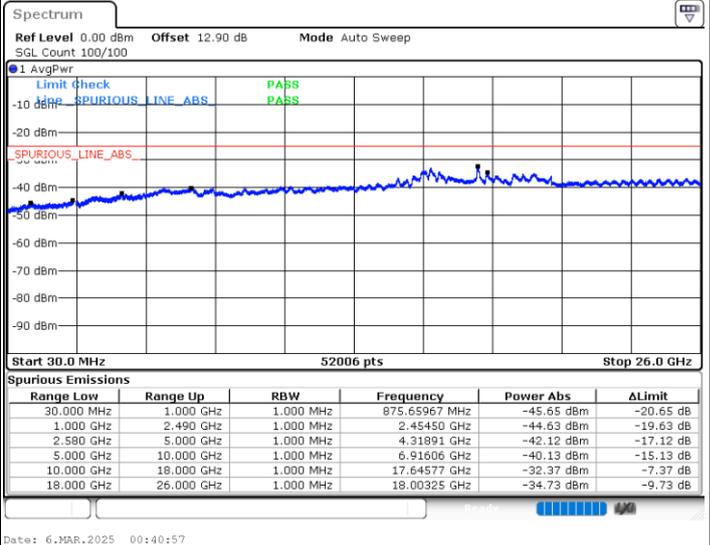
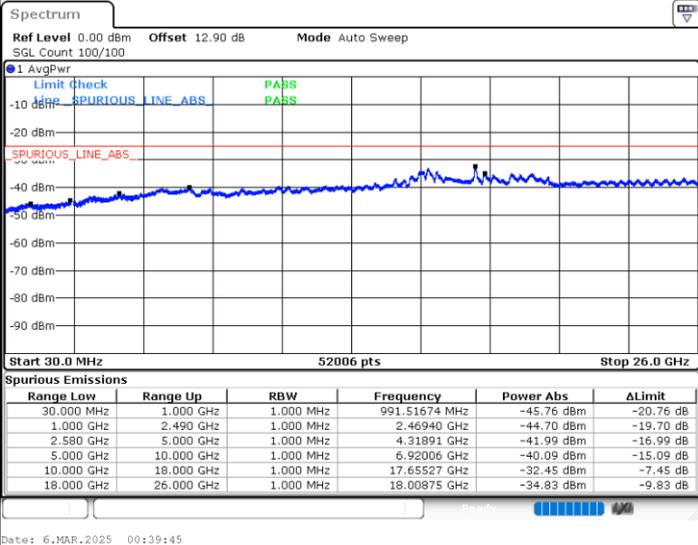




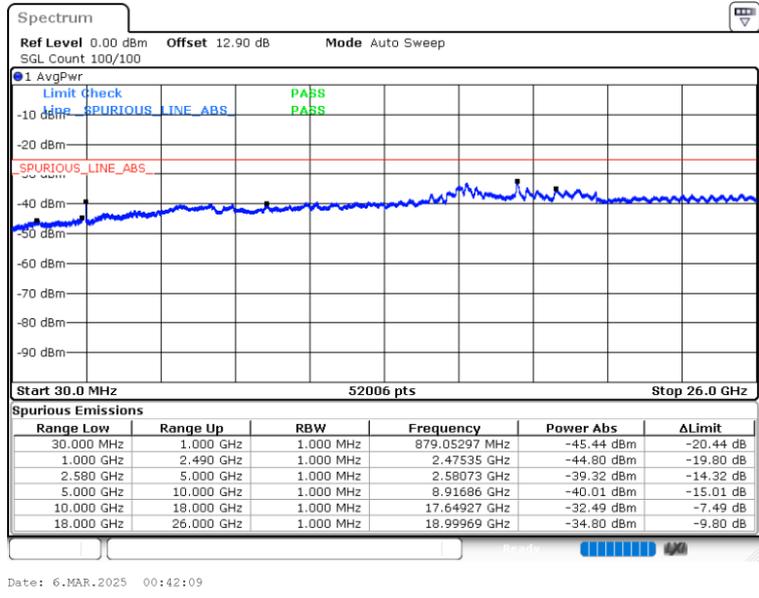
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





**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	0.0009	PASS
40	Normal Voltage	0.0041	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0039	
20	Maximum Voltage	0.0059	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0061	

**Note:**

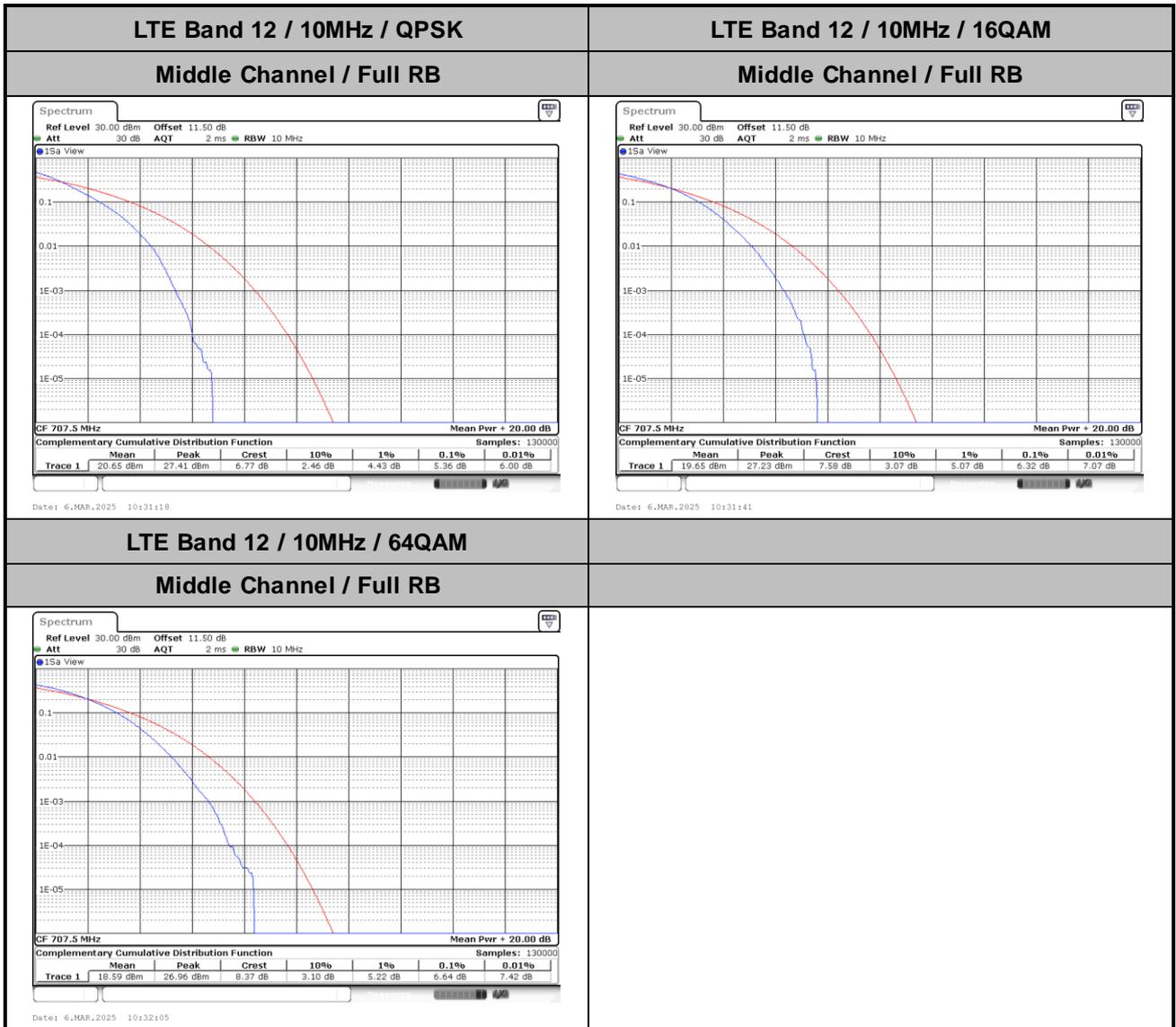
- 1. Normal Voltage = 3.87 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



# 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	5.36	6.32	6.64	-	PASS





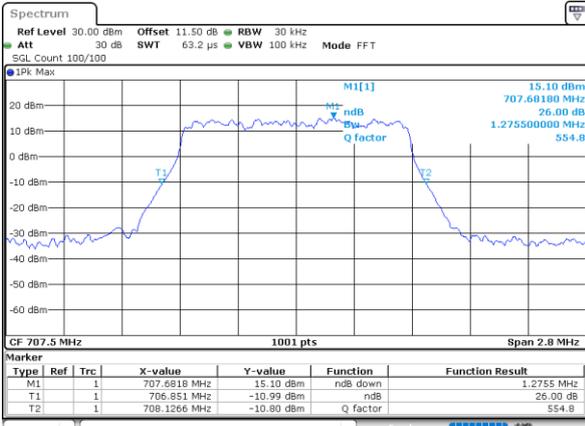
**26dB Bandwidth**

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	1.27	1.31	2.98	3.00	4.92	4.93	9.66	9.75	-	-	-	-
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	1.25	-	2.98	-	4.87	-	9.86	-	-	-	-	-



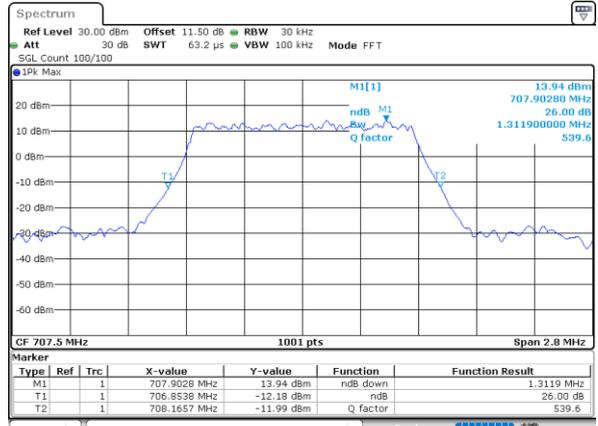
LTE Band 12

Middle Channel / 1.4MHz / QPSK



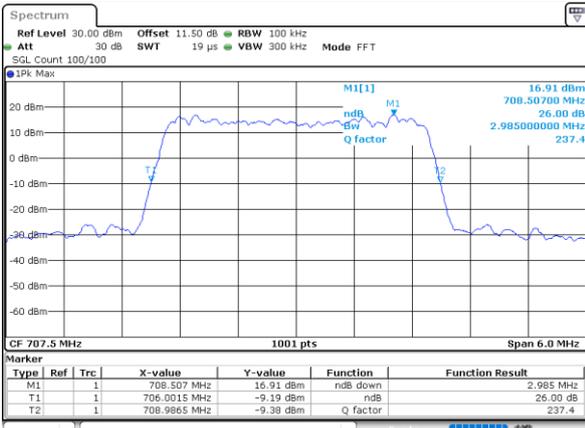
Date: 6,MAR,2025 10:12:12

Middle Channel / 1.4MHz / 16QAM



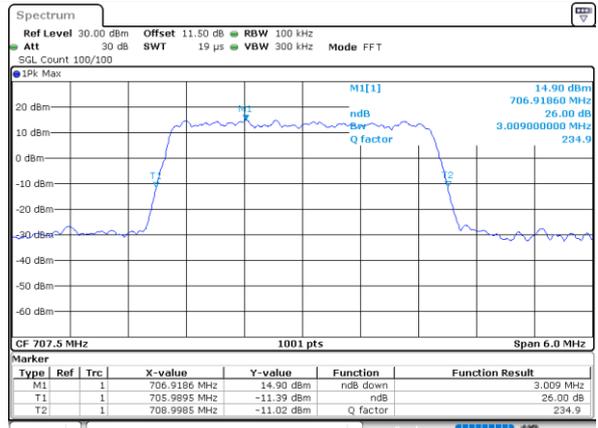
Date: 6,MAR,2025 10:12:35

Middle Channel / 3MHz / QPSK



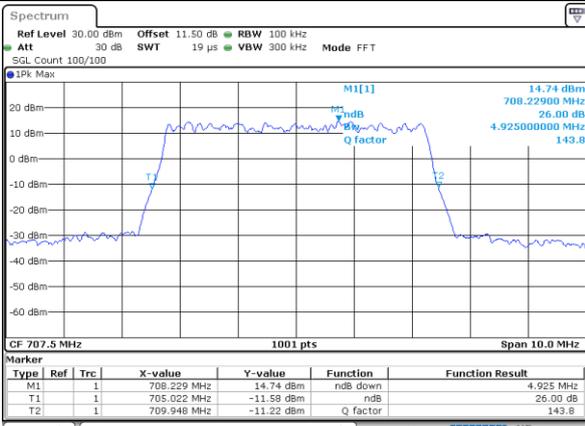
Date: 6,MAR,2025 10:13:21

Middle Channel / 3MHz / 16QAM



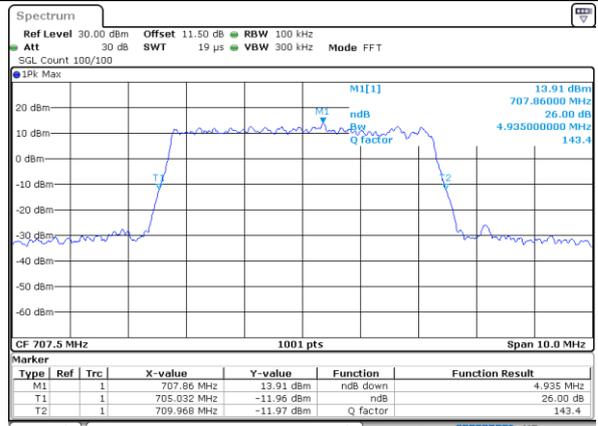
Date: 6,MAR,2025 10:13:43

Middle Channel / 5MHz / QPSK



Date: 6,MAR,2025 10:14:29

Middle Channel / 5MHz / 16QAM

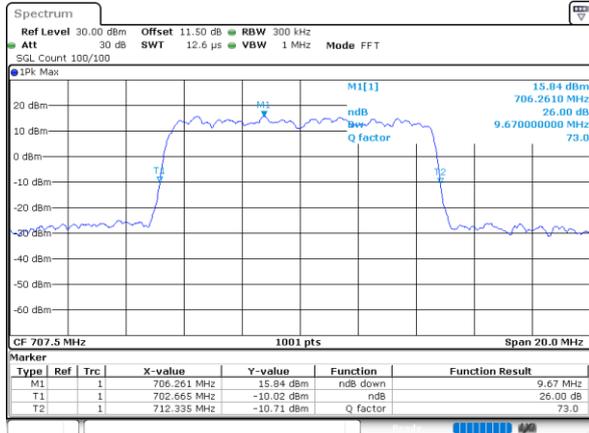


Date: 6,MAR,2025 10:14:52



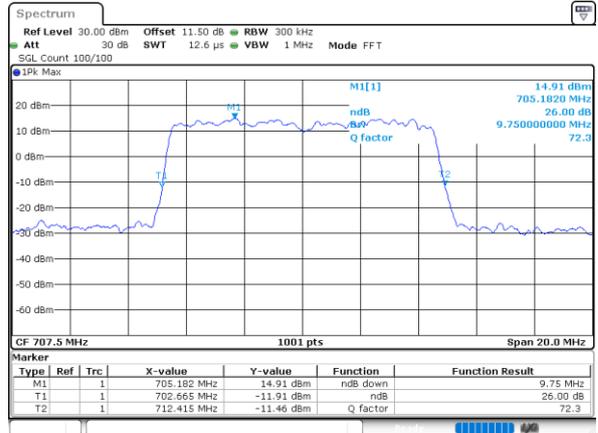
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 6.MAR.2025 10:15:38

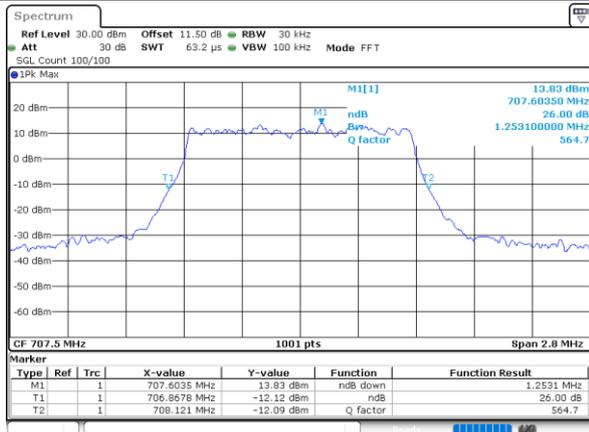
Middle Channel / 10MHz / 16QAM



Date: 6.MAR.2025 10:16:00

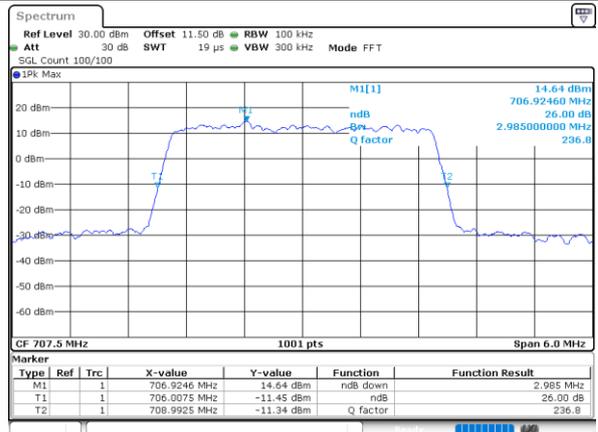
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



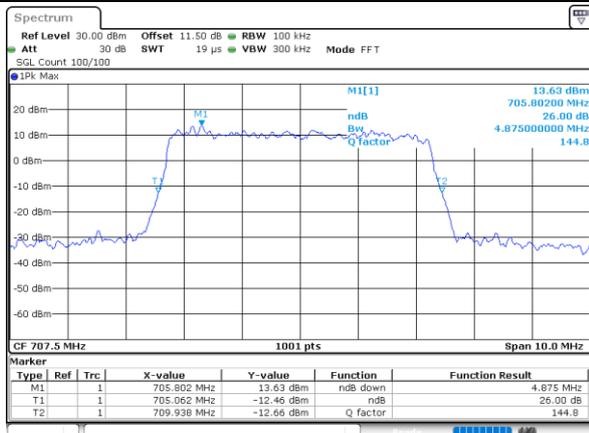
Date: 6.MAR.2025 10:12:57

Middle Channel / 3MHz / 64QAM



Date: 6.MAR.2025 10:14:06

Middle Channel / 5MHz / 64QAM



Date: 6.MAR.2025 10:15:14

Middle Channel / 10MHz / 64QAM



Date: 6.MAR.2025 10:16:23



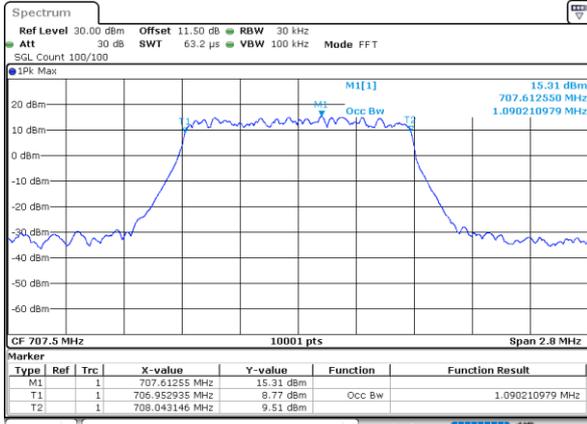
Occupied Bandwidth

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	1.08	2.72	2.71	4.48	4.47	9.01	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	-	2.70	-	4.49	-	8.98	-	-	-	-	-

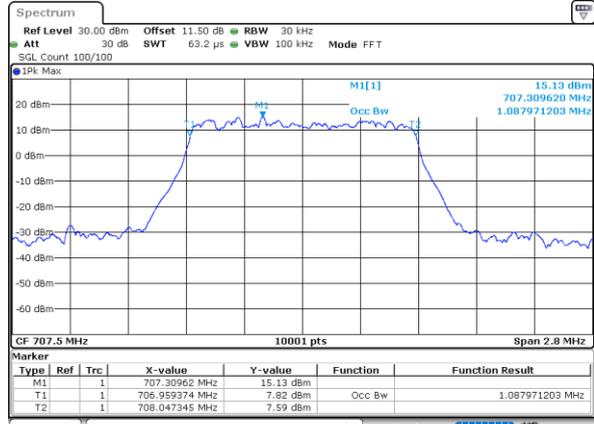


LTE Band 12

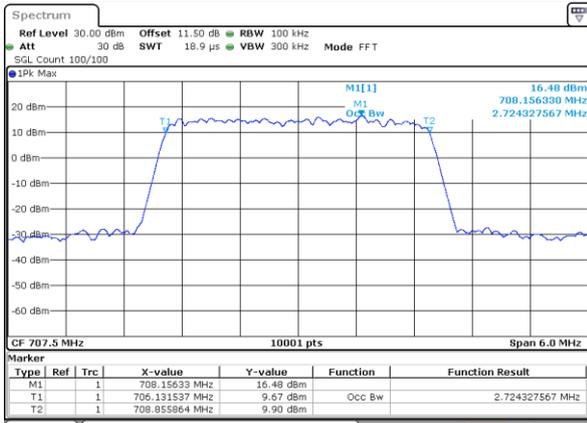
Middle Channel / 1.4MHz / QPSK



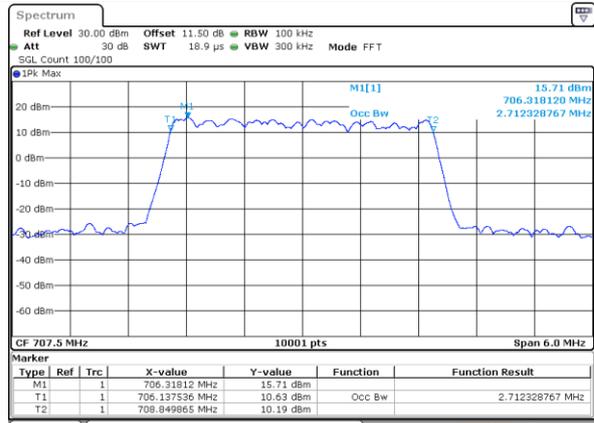
Middle Channel / 1.4MHz / 16QAM



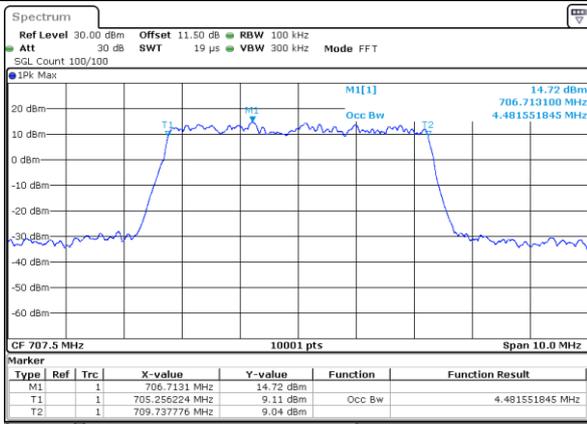
Middle Channel / 3MHz / QPSK



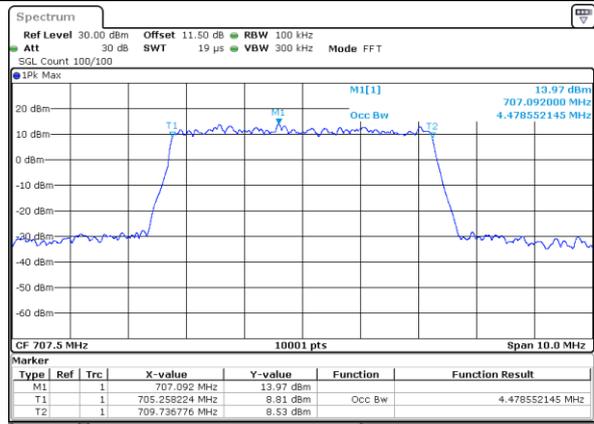
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



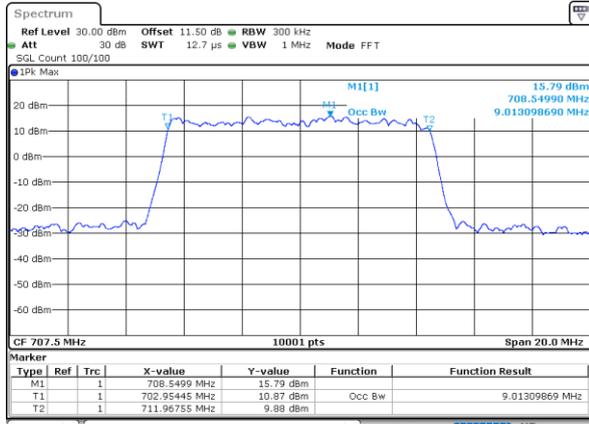
Middle Channel / 5MHz / 16QAM





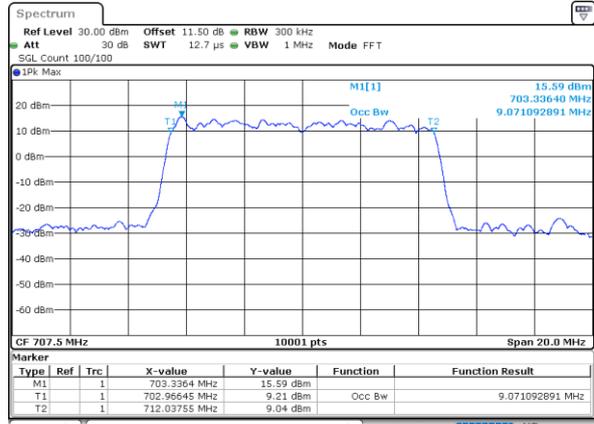
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 6,MAR,2025 10:11:03

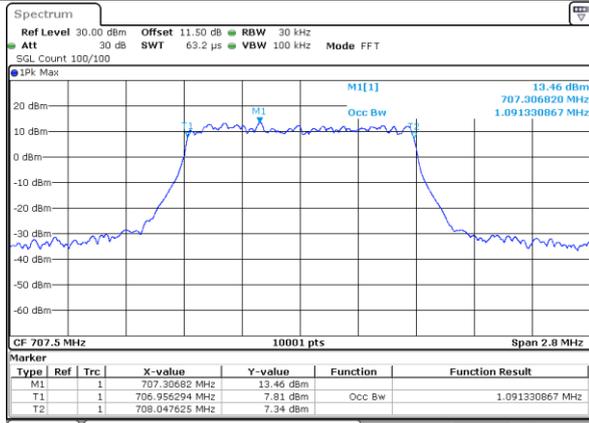
Middle Channel / 10MHz / 16QAM



Date: 6,MAR,2025 10:11:26

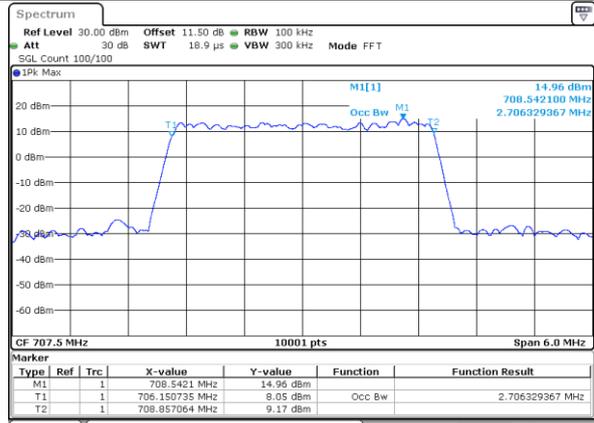
LTE Band 12

Middle Channel / 1.4MHz / 64QAM



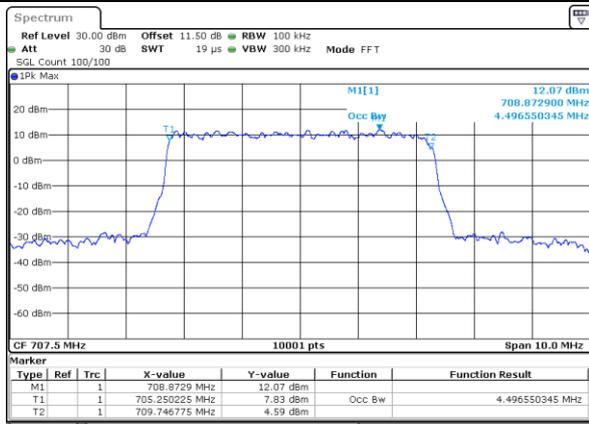
Date: 6,MAR,2025 10:08:23

Middle Channel / 3MHz / 64QAM



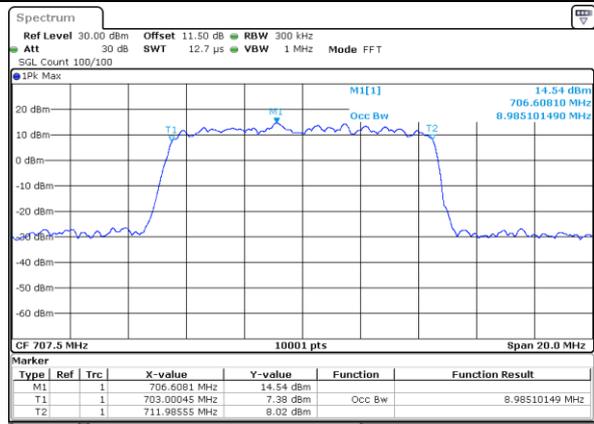
Date: 6,MAR,2025 10:09:32

Middle Channel / 5MHz / 64QAM



Date: 6,MAR,2025 10:11:40

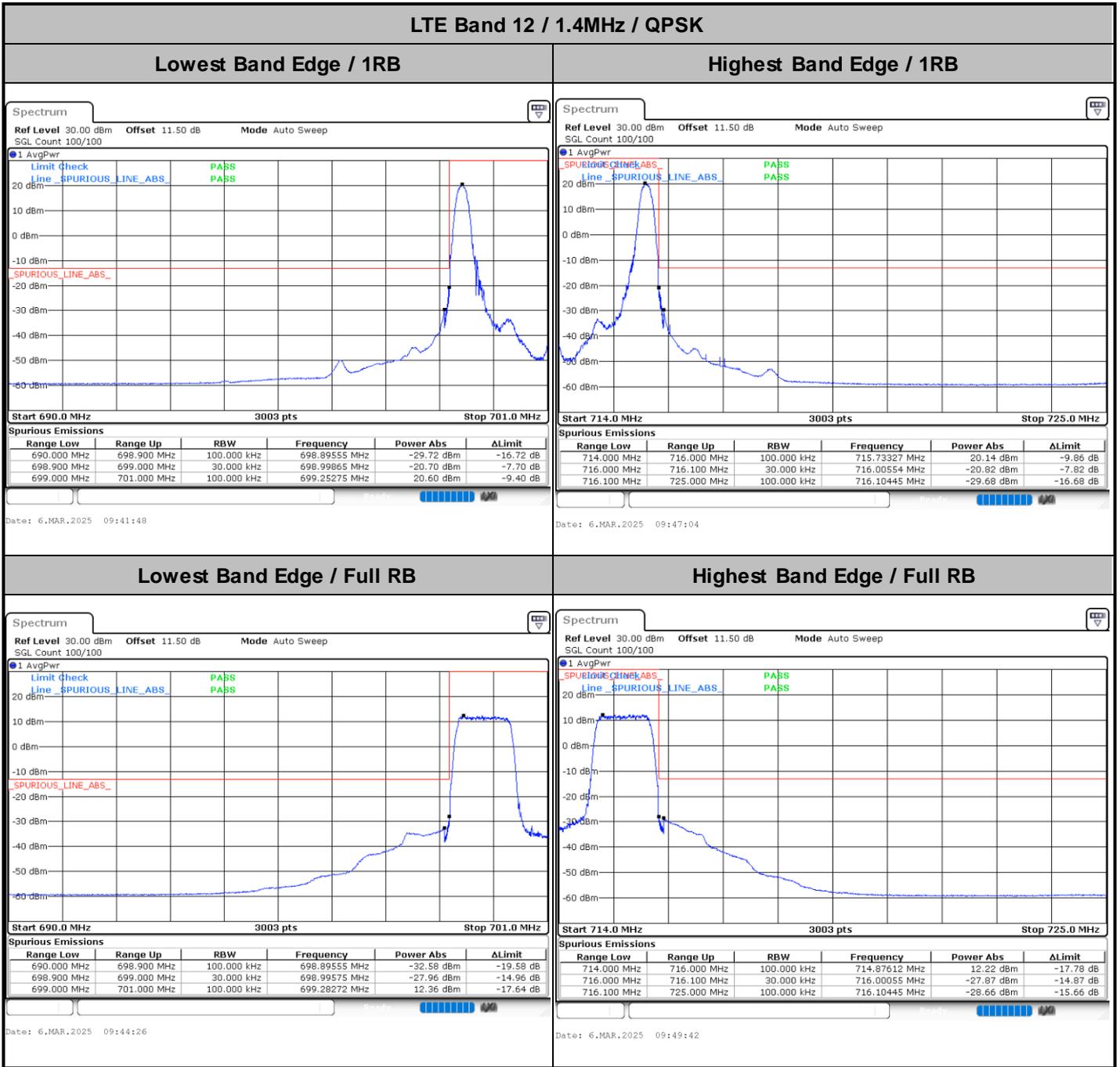
Middle Channel / 10MHz / 64QAM



Date: 6,MAR,2025 10:11:49



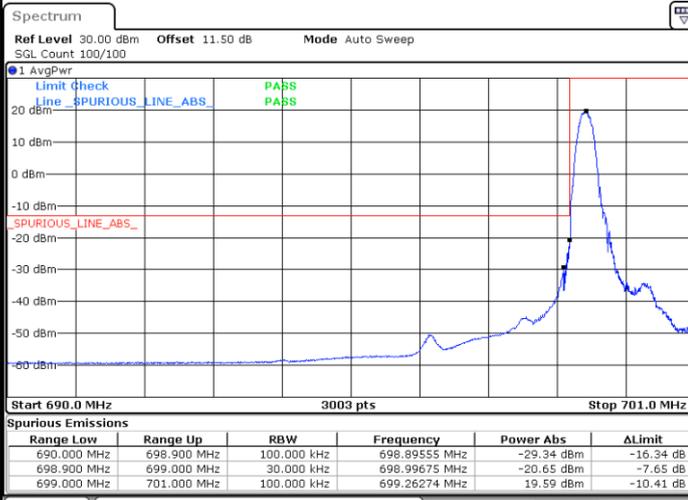
# Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 6.MAR.2025 09:42:41

Highest Band Edge / 1 RB



Date: 6.MAR.2025 09:47:56

Lowest Band Edge / Full RB



Date: 6.MAR.2025 09:45:19

Highest Band Edge / Full RB



Date: 6.MAR.2025 09:50:34



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 6.MAR.2025 09:43:34

Highest Band Edge / 1 RB



Date: 6.MAR.2025 09:48:49

Lowest Band Edge / Full RB



Date: 6.MAR.2025 09:46:11

Highest Band Edge / Full RB



Date: 6.MAR.2025 09:51:27



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6.MAR.2025 09:52:20

Date: 6.MAR.2025 09:54:57

LTE Band 12 / 3MHz / 16QAM

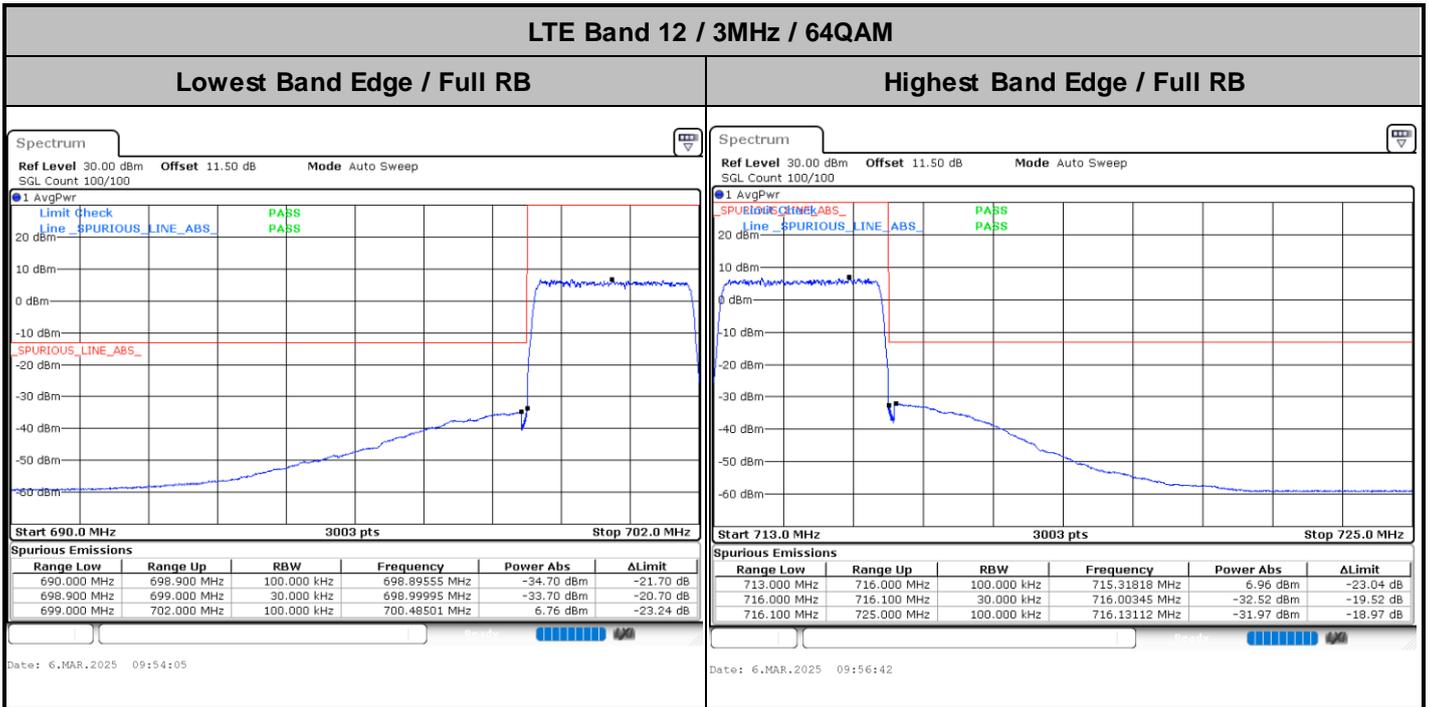
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6.MAR.2025 09:53:12

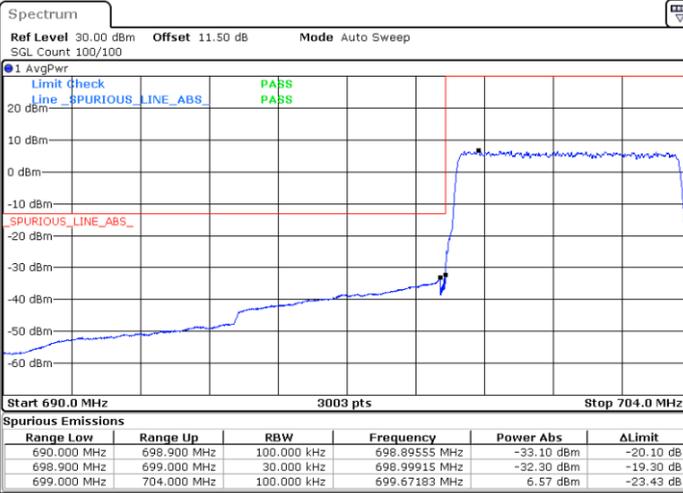
Date: 6.MAR.2025 09:55:50





LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 6.MAR.2025 09:57:35

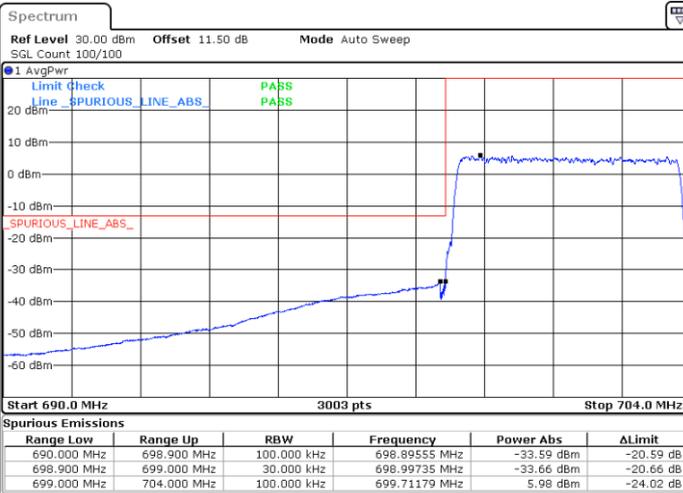
Highest Band Edge / Full RB



Date: 6.MAR.2025 10:00:13

LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 6.MAR.2025 09:58:28

Highest Band Edge / Full RB

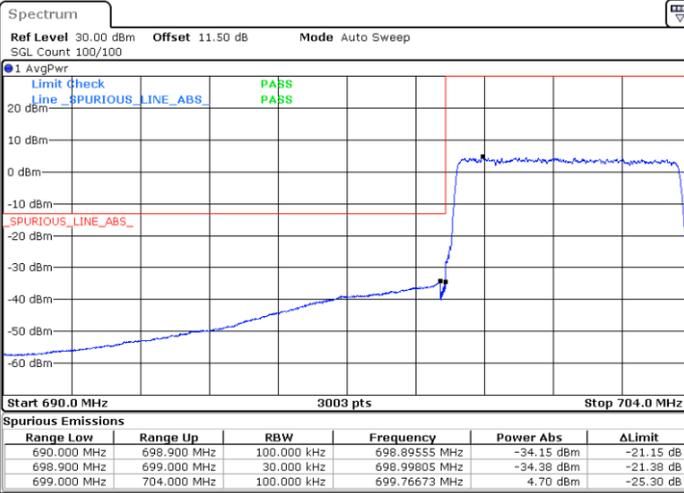


Date: 6.MAR.2025 10:01:05



LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / Full RB



Date: 6.MAR.2025 09:59:20

Highest Band Edge / Full RB

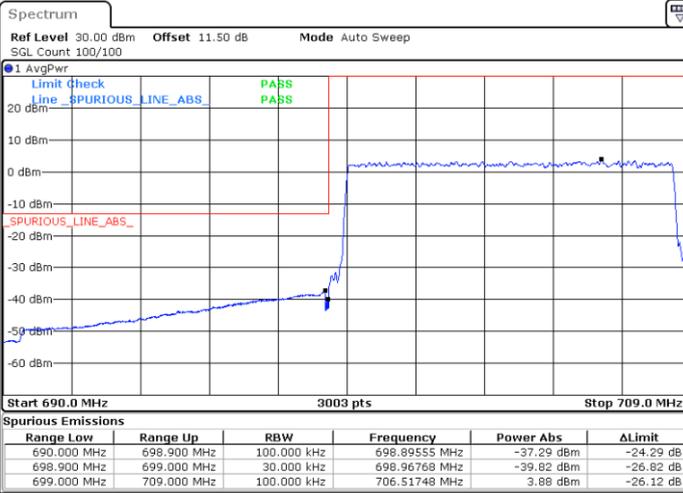


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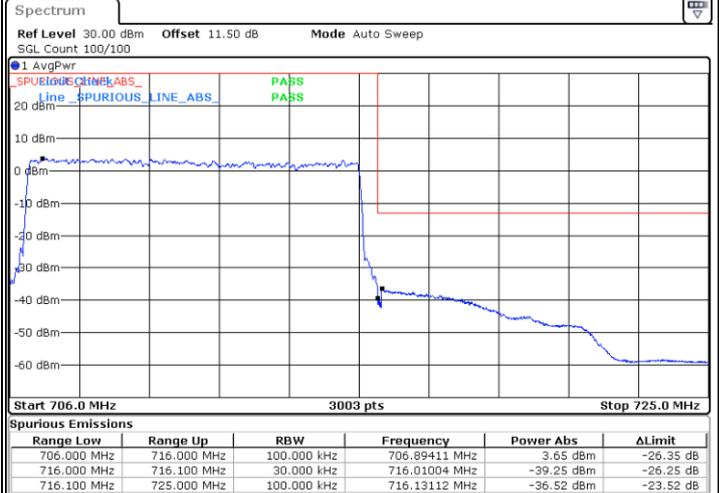
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 6.MAR.2025 10:02:51

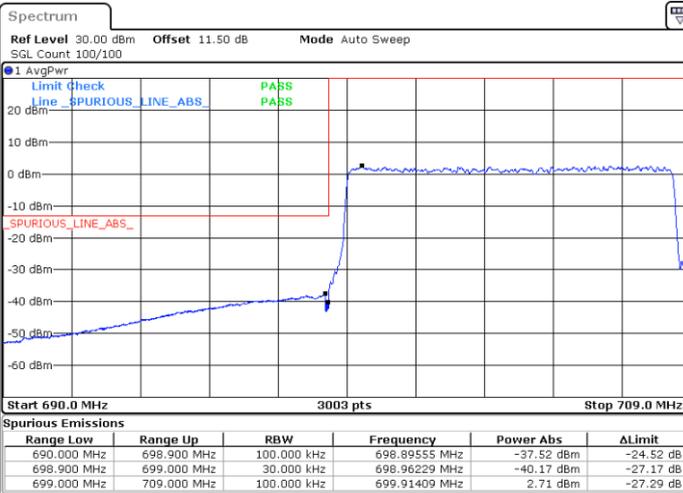
Highest Band Edge / Full RB



Date: 6.MAR.2025 10:05:29

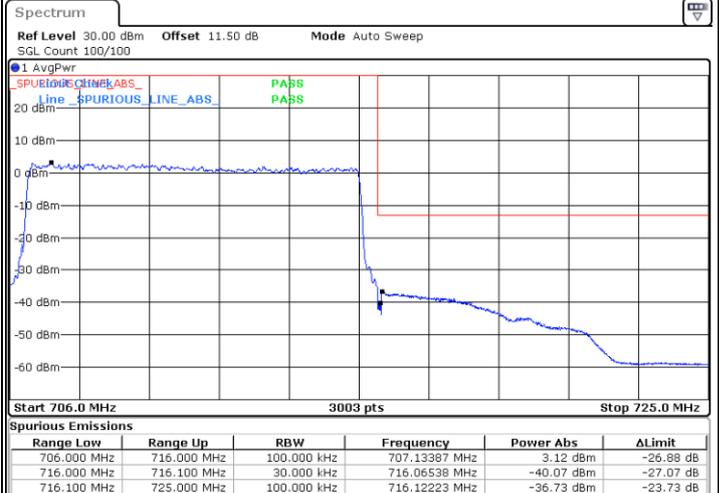
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 6.MAR.2025 10:03:44

Highest Band Edge / Full RB



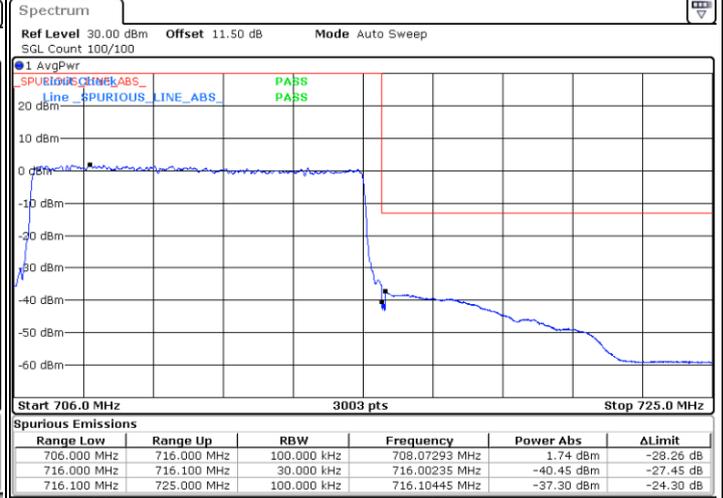
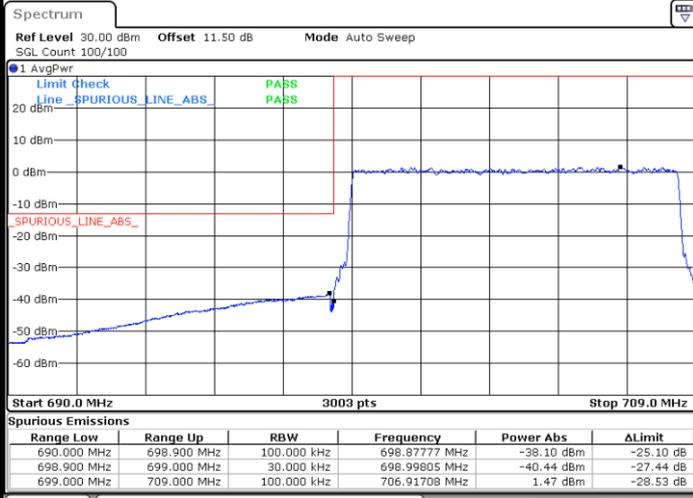
Date: 6.MAR.2025 10:06:21



LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 6.MAR.2025 10:04:36

Date: 6.MAR.2025 10:07:14

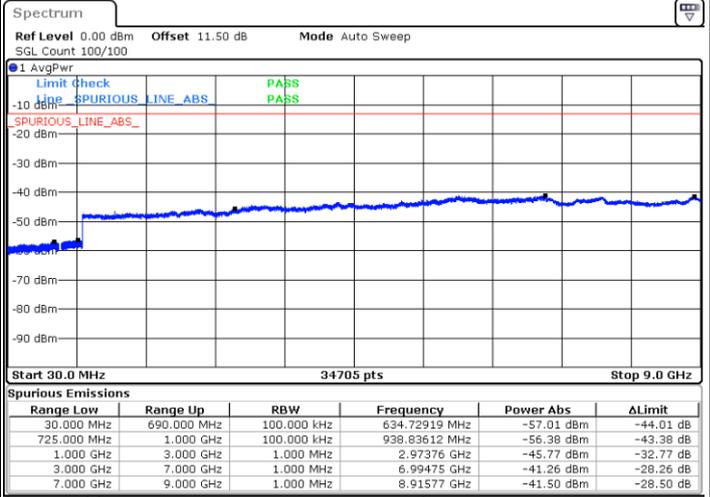
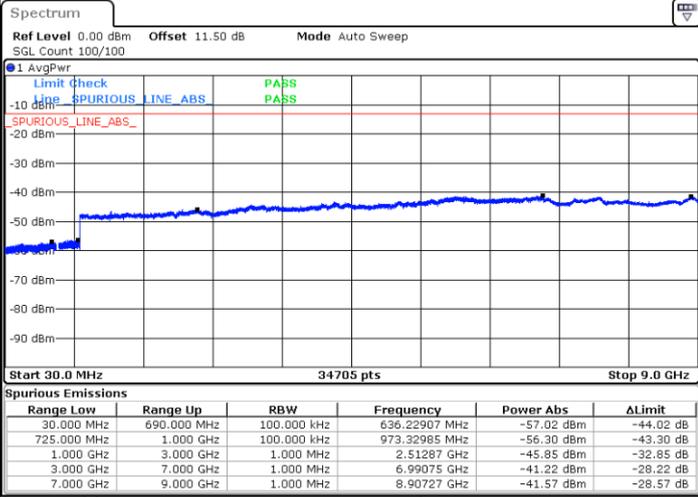


# Conducted Spurious Emission

## LTE Band 12 / 1.4MHz

### Lowest Channel / QPSK

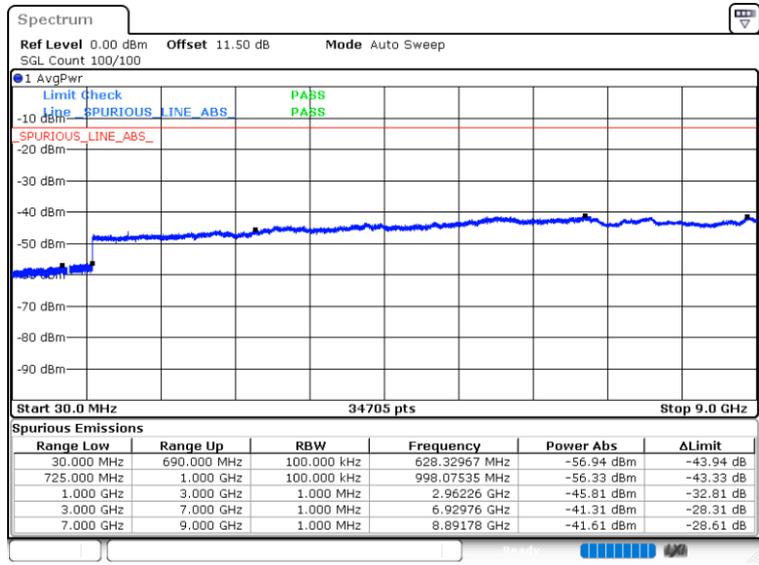
### Middle Channel / QPSK



Date: 6.MAR.2025 10:17:35

Date: 6.MAR.2025 10:18:47

### Highest Channel / QPSK

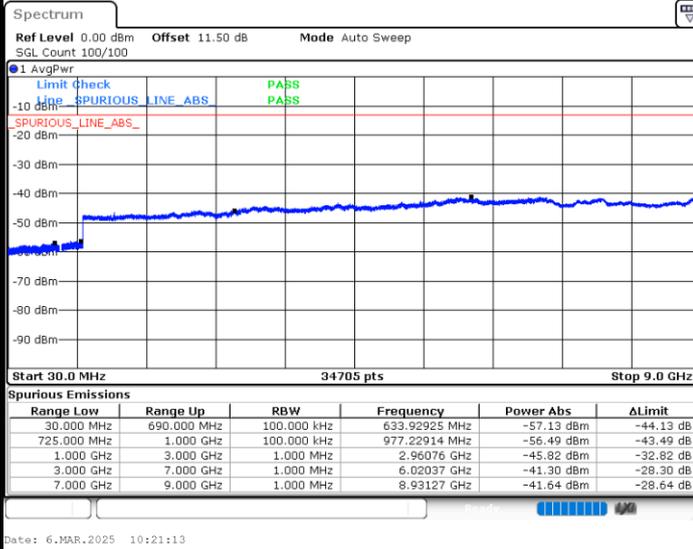


Date: 6.MAR.2025 10:20:00

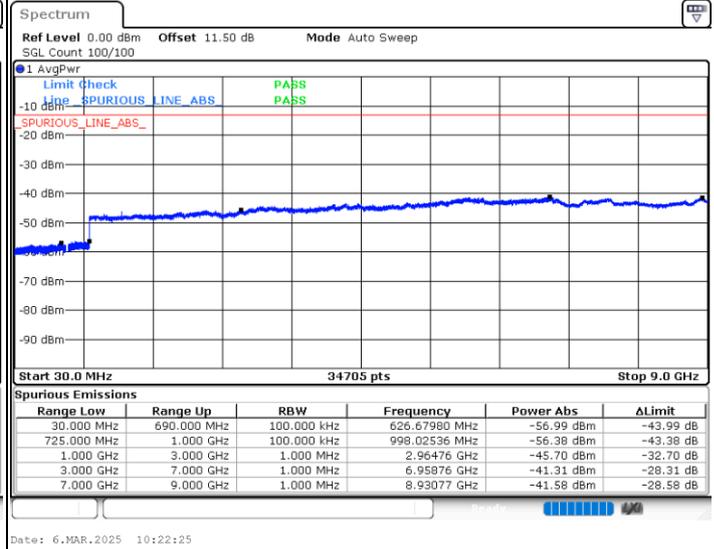


LTE Band 12 / 3MHz

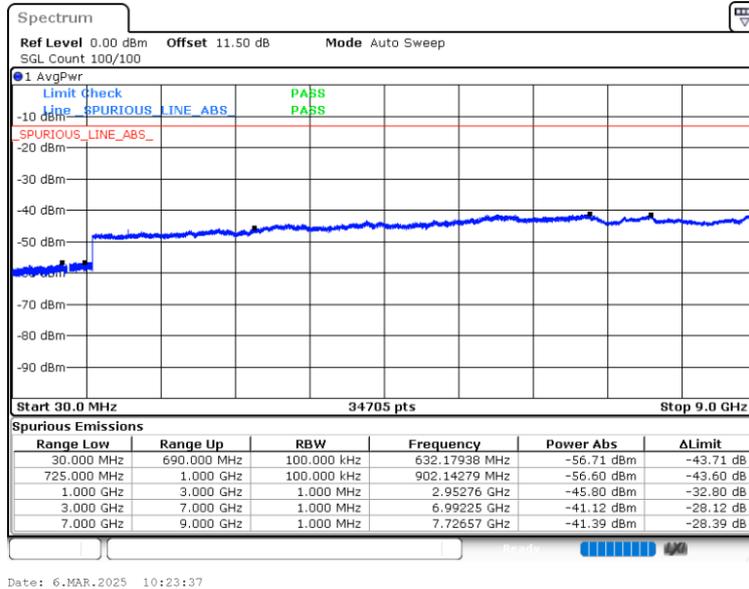
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

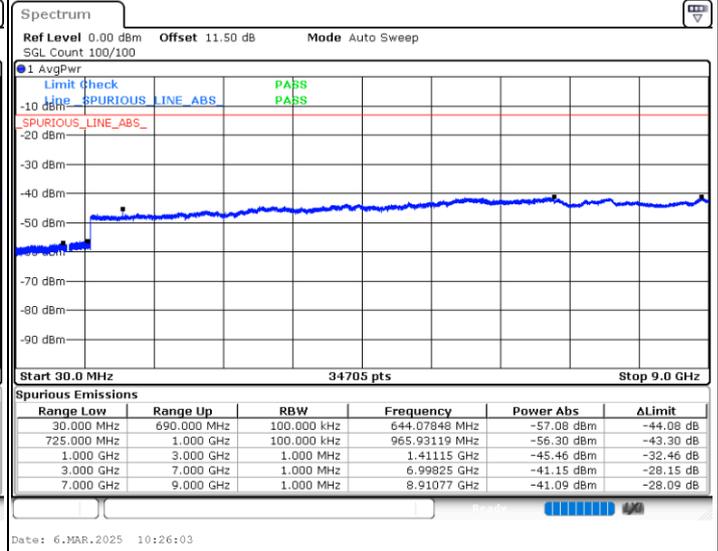
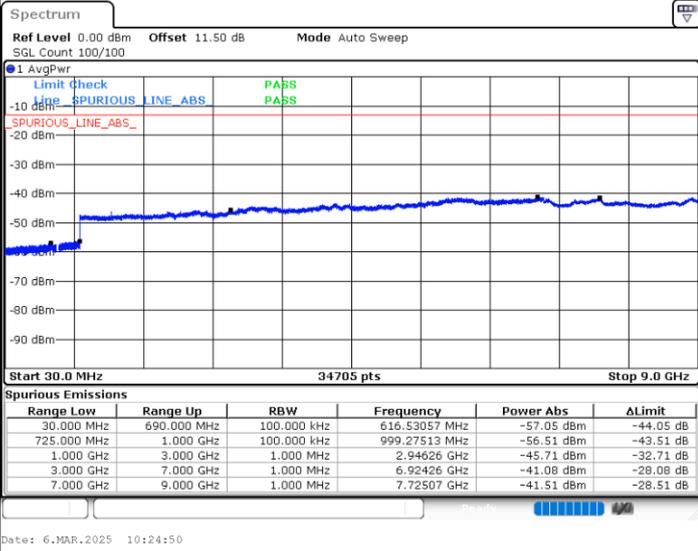




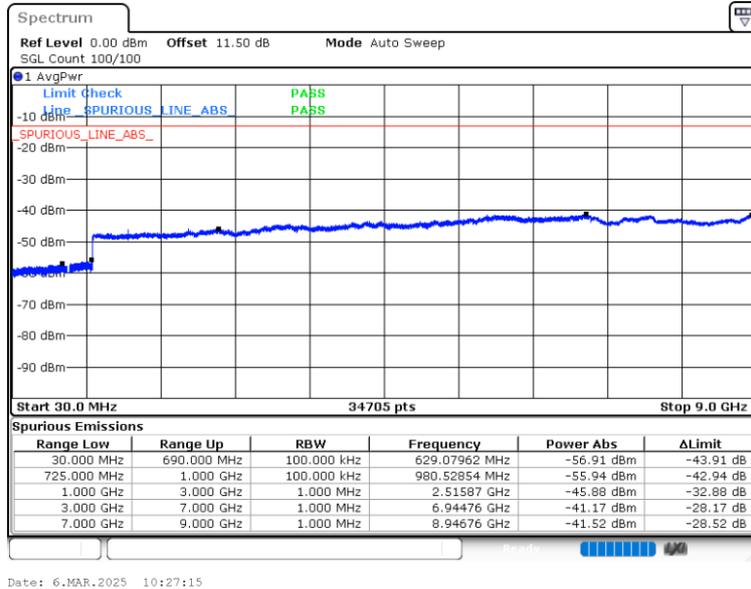
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

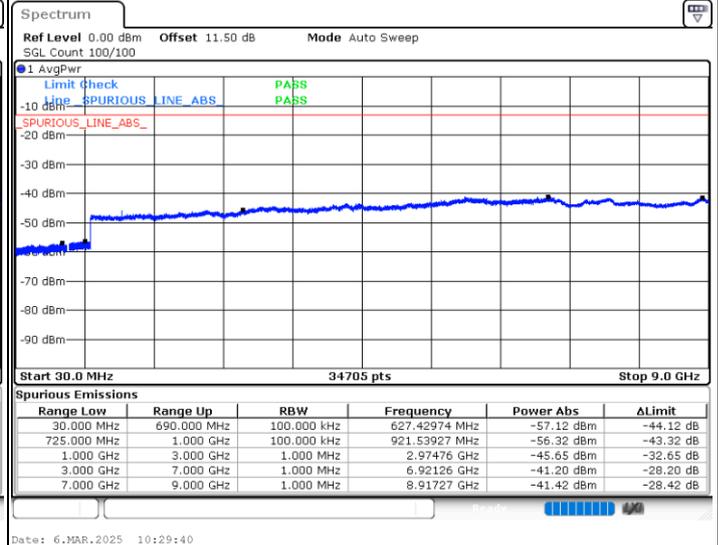
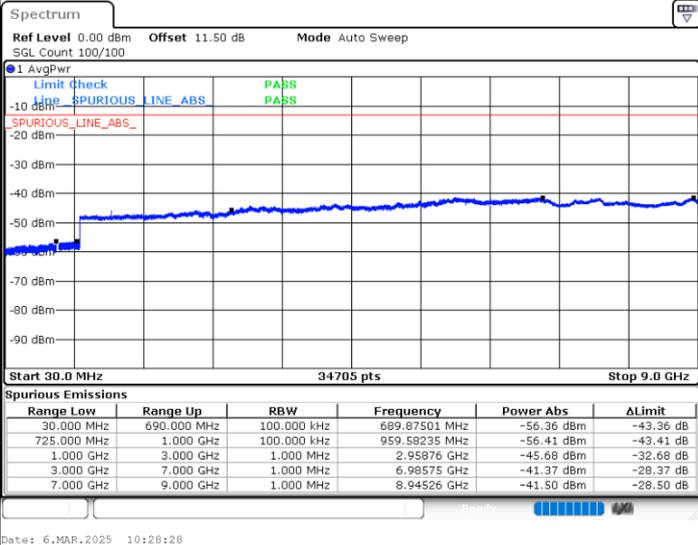




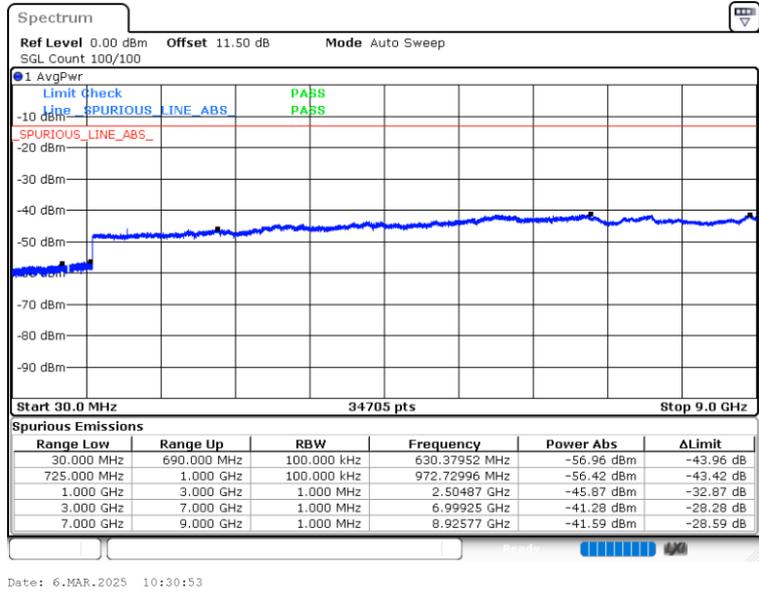
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





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	0.0196	PASS
40	Normal Voltage	0.0124	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0177	
0	Normal Voltage	0.0164	
-10	Normal Voltage	0.0030	
-20	Normal Voltage	0.0055	
-30	Normal Voltage	0.0206	
20	Maximum Voltage	0.0069	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0126	

Note:

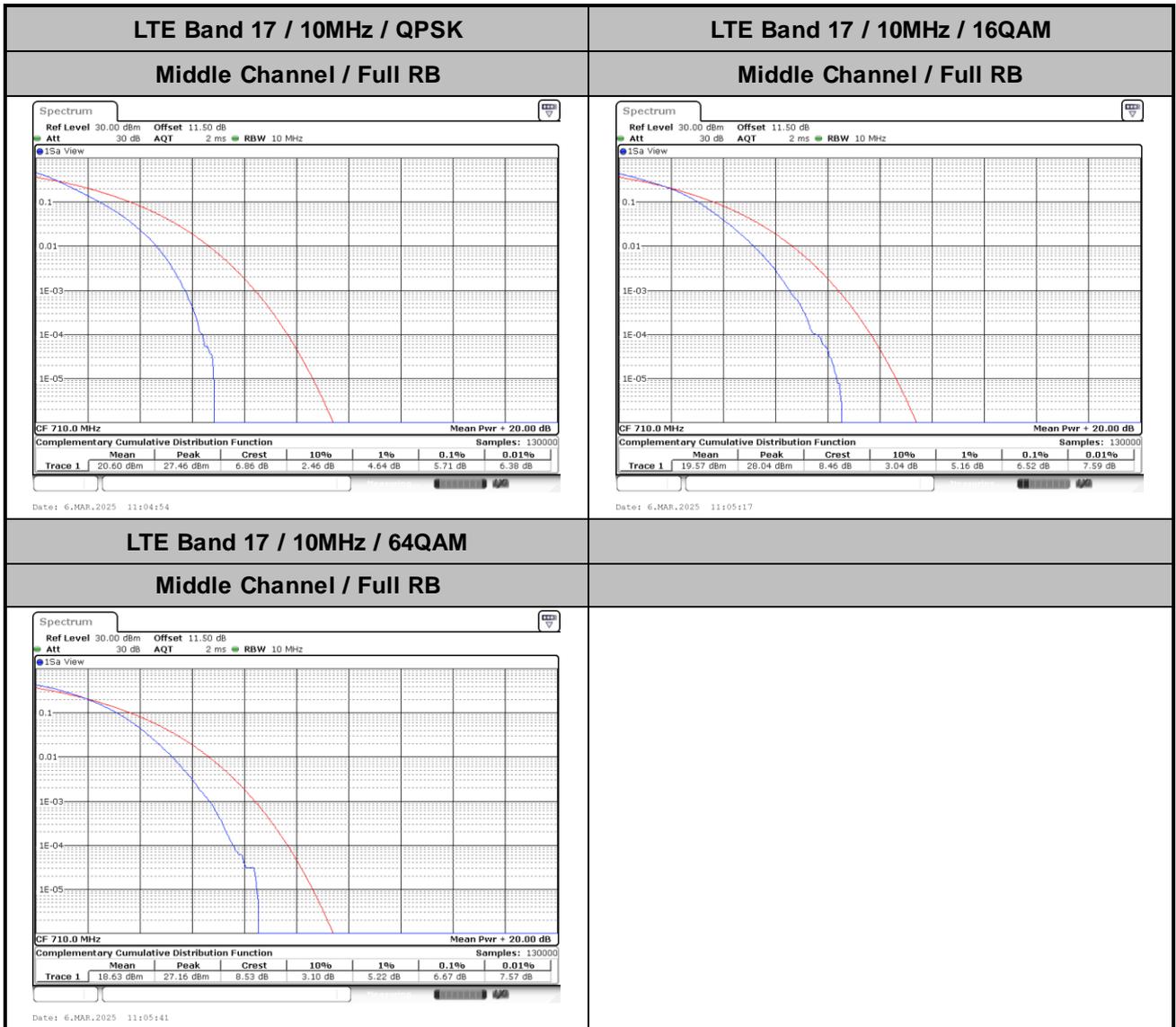
1. Normal Voltage = 3.87 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 17

## Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.71	6.52	6.67	-	PASS





**26dB Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.83	4.94	9.73	9.63	-	-	-	-
Mode	LTE Band 17 : 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	-	-	-	-	4.91	-	9.76	-	-	-	-	-