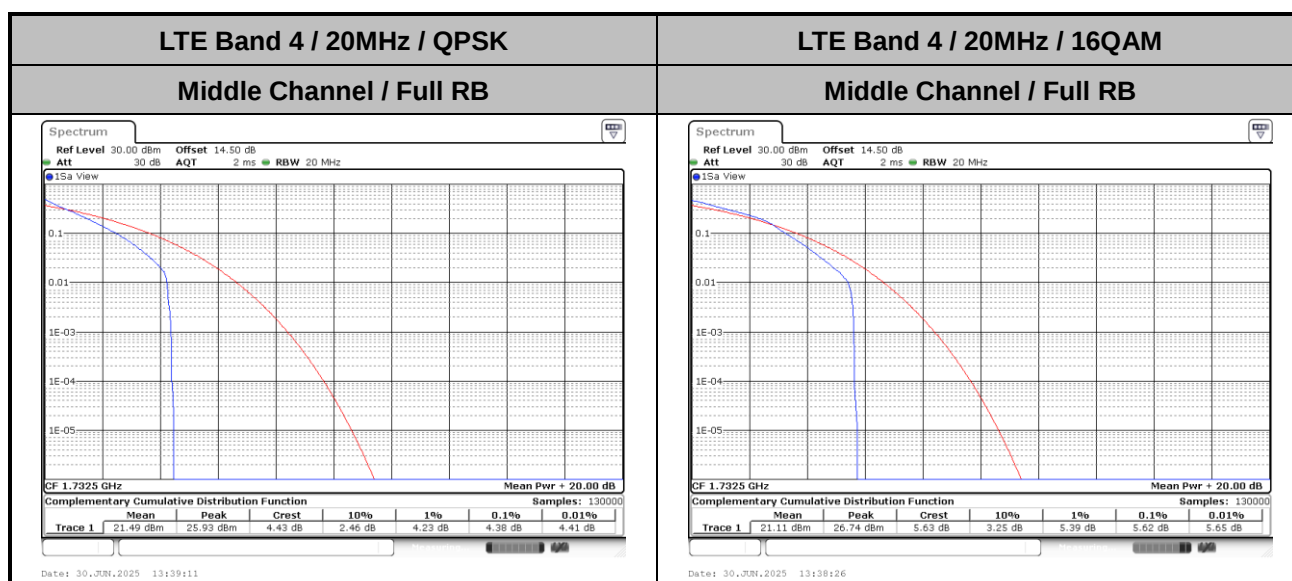




LTE Band 4

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz			
Mod.	QPSK	16QAM		Limit: 13dB
RB Size	Full RB	Full RB		Result
Middle CH	4.38	5.62		PASS





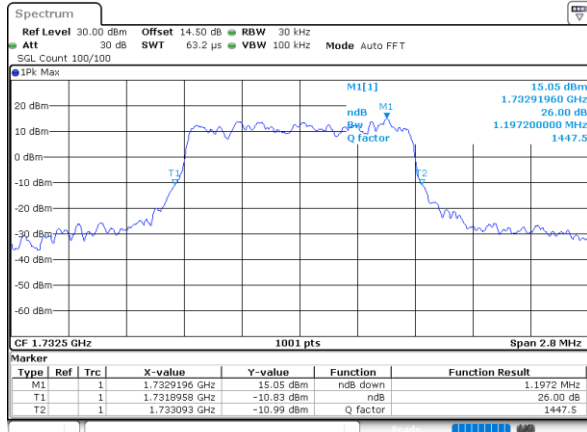
26dB Bandwidth

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	1.20	1.04	1.30	1.29	1.47	1.24	1.78	1.60	2.25	1.95	1.84	2.44



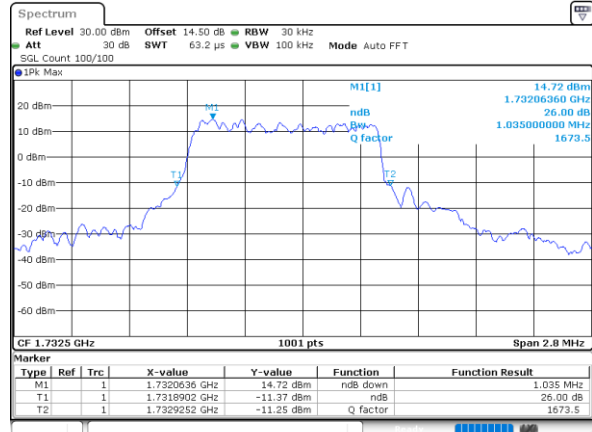
LTE Band 4

Middle Channel / 1.4MHz / QPSK



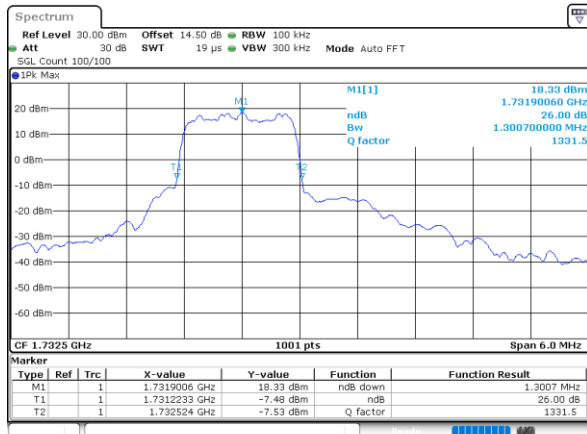
Date: 30 JUN 2025 10:55:16

Middle Channel / 1.4MHz / 16QAM



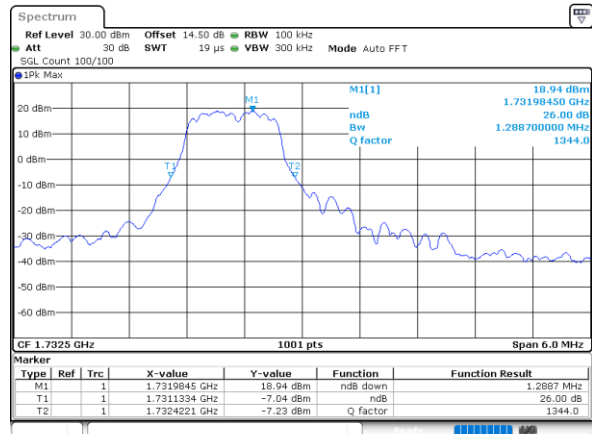
Date: 30 JUN 2025 11:04:32

Middle Channel / 3MHz / QPSK



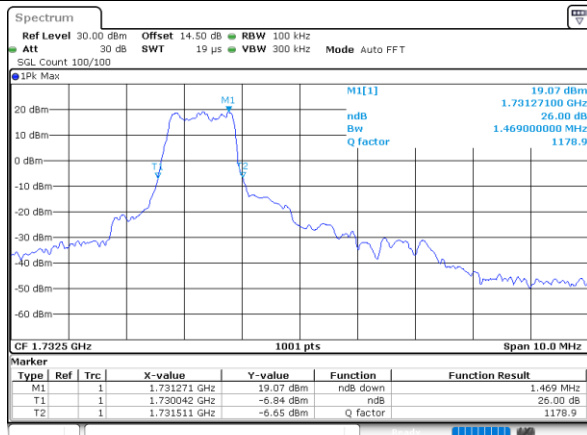
Date: 30 JUN 2025 11:09:56

Middle Channel / 3MHz / 16QAM



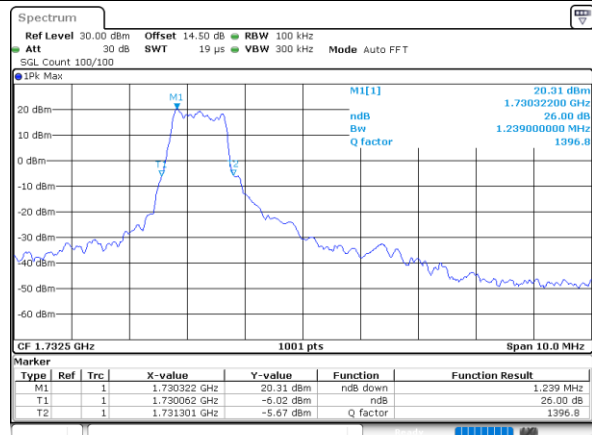
Date: 30 JUN 2025 11:11:31

Middle Channel / 5MHz / QPSK



Date: 30 JUN 2025 11:43:11

Middle Channel / 5MHz / 16QAM

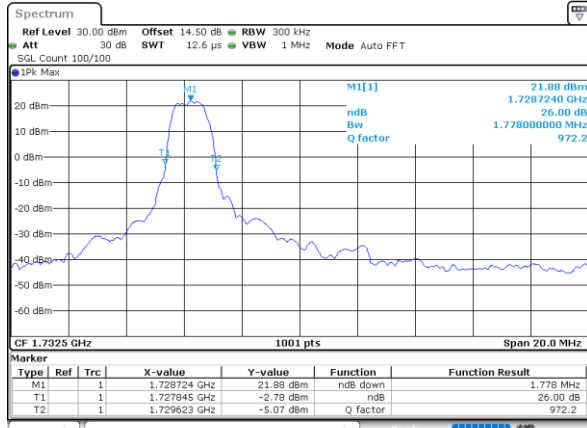


Date: 30 JUN 2025 11:42:40



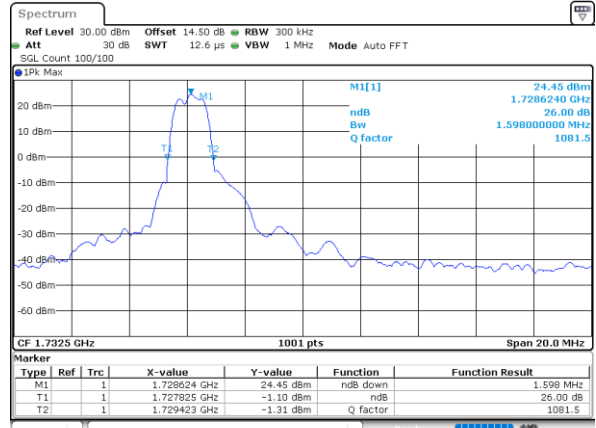
LTE Band 4

Middle Channel / 10MHz / QPSK



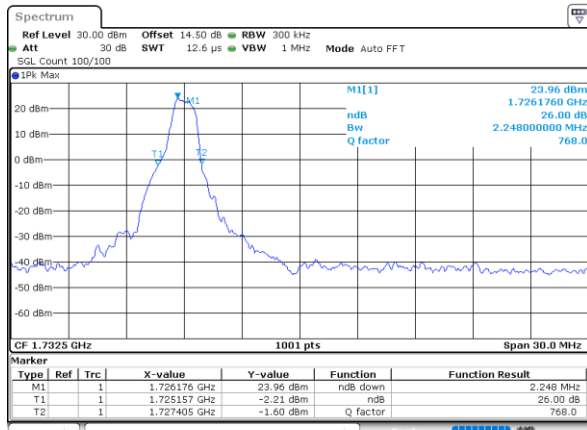
Date: 30 JUN 2025 11:50:52

Middle Channel / 10MHz / 16QAM



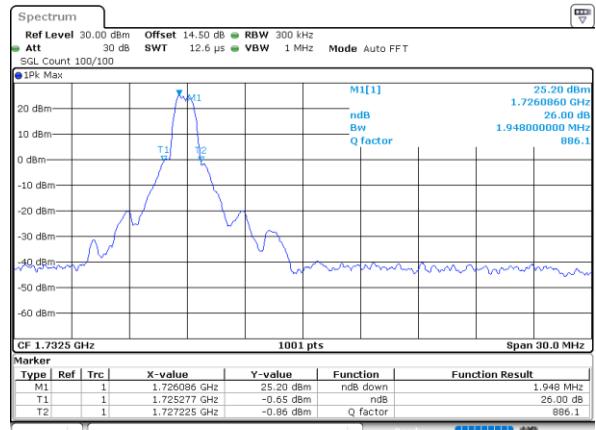
Date: 30 JUN 2025 11:50:24

Middle Channel / 15MHz / QPSK



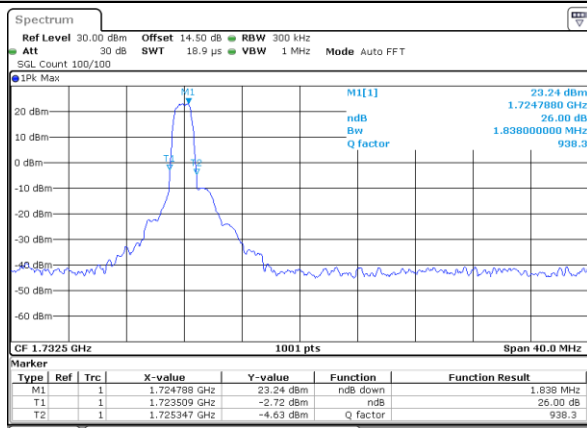
Date: 30 JUN 2025 13:28:09

Middle Channel / 15MHz / 16QAM



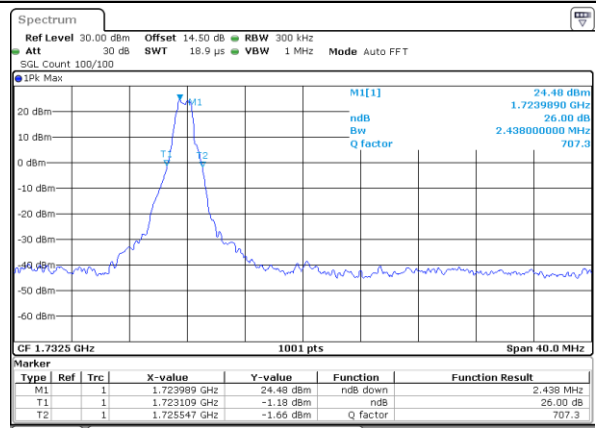
Date: 30 JUN 2025 13:27:38

Middle Channel / 20MHz / QPSK



Date: 30 JUN 2025 13:39:38

Middle Channel / 20MHz / 16QAM



Date: 30 JUN 2025 13:38:51



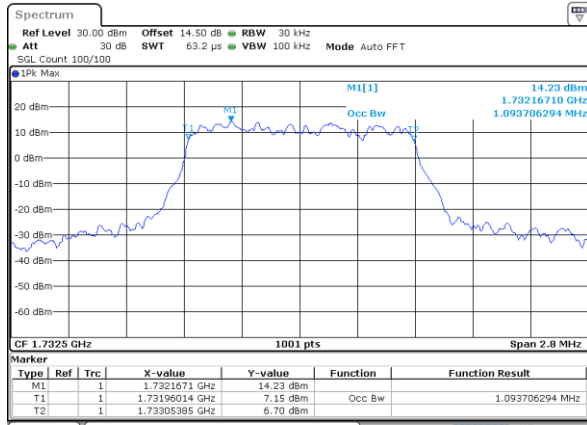
Occupied Bandwidth

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	0.91	1.19	1.00	1.15	1.01	1.60	1.28	1.44	1.29	1.64	1.32

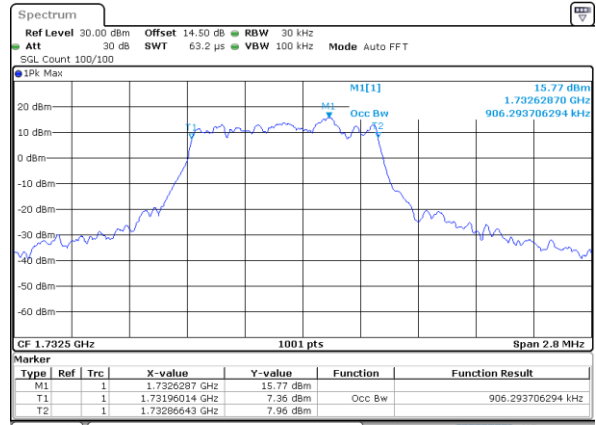


LTE Band 4

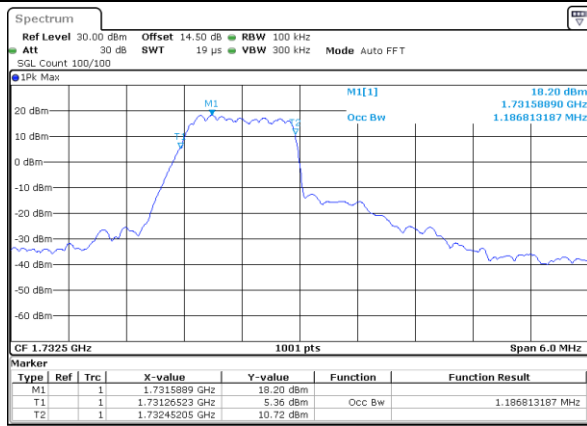
Middle Channel / 1.4MHz / QPSK



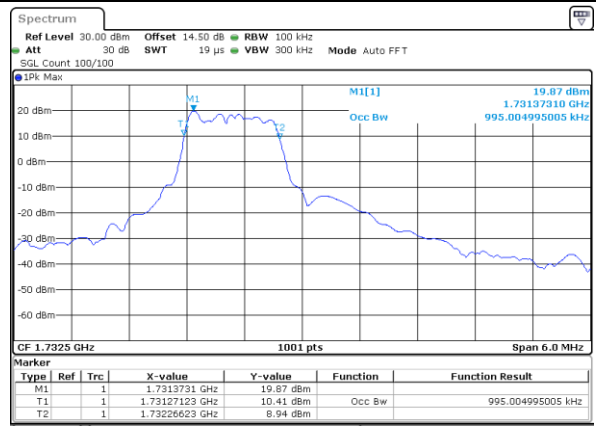
Middle Channel / 1.4MHz / 16QAM



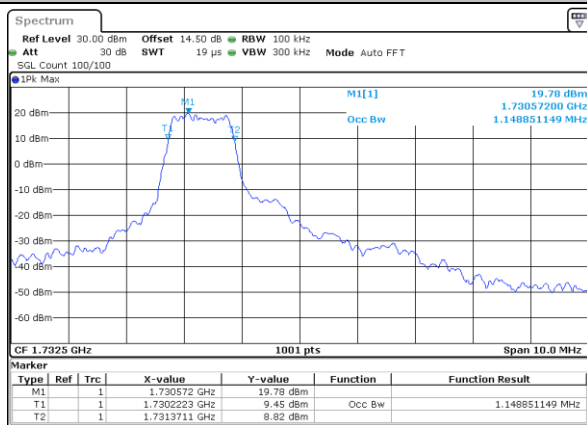
Middle Channel / 3MHz / QPSK



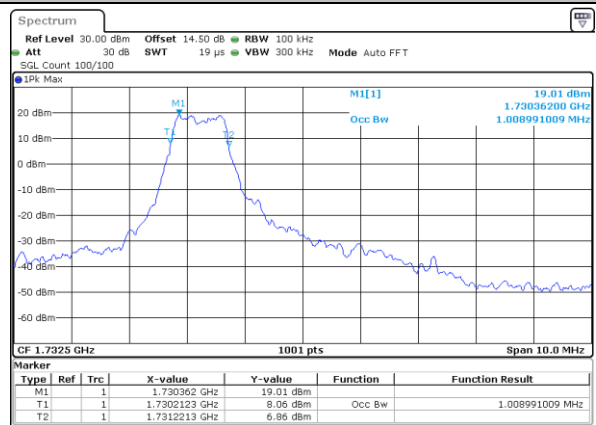
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



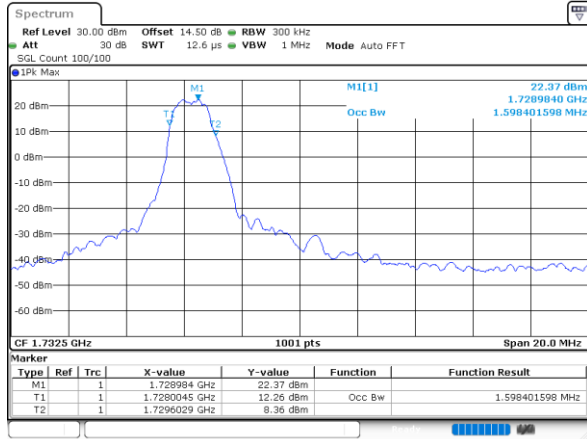
Middle Channel / 5MHz / 16QAM



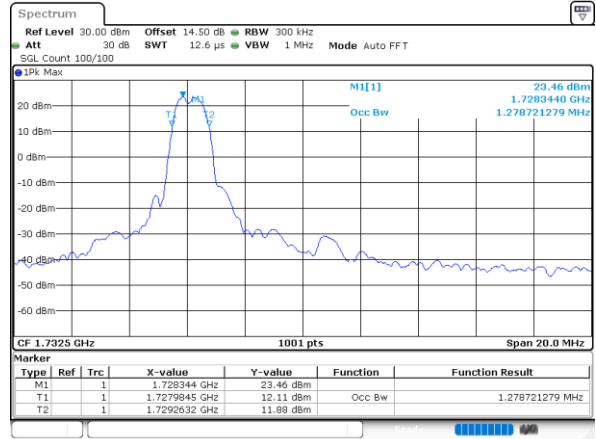


LTE Band 4

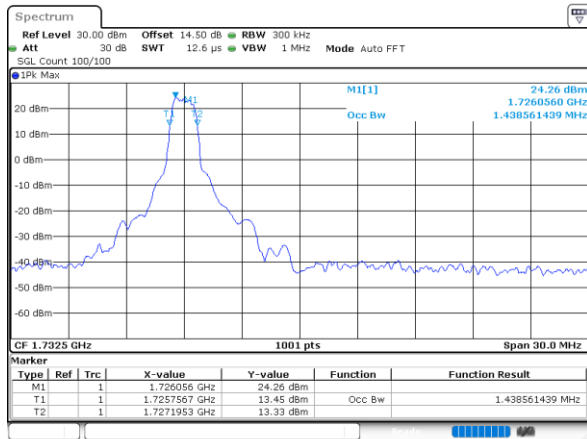
Middle Channel / 10MHz / QPSK



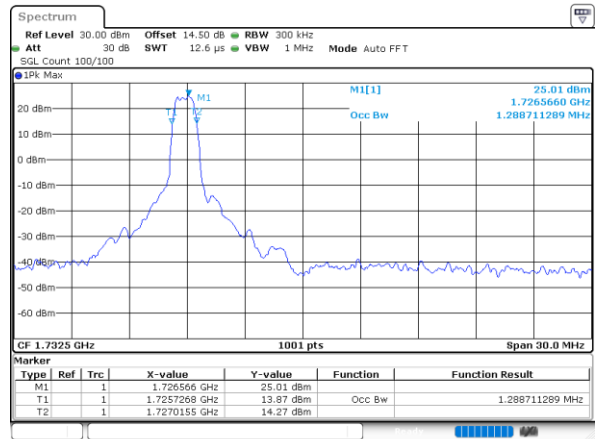
Middle Channel / 10MHz / 16QAM



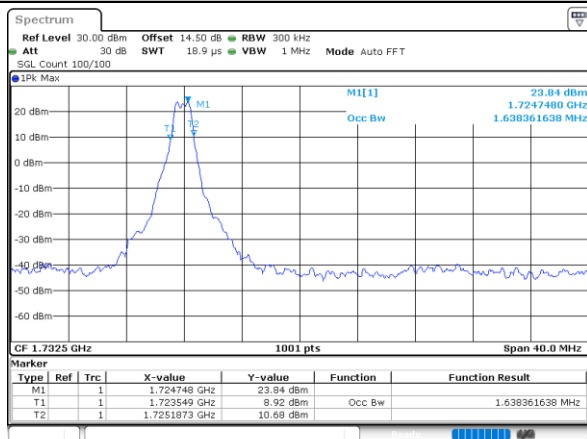
Middle Channel / 15MHz / QPSK



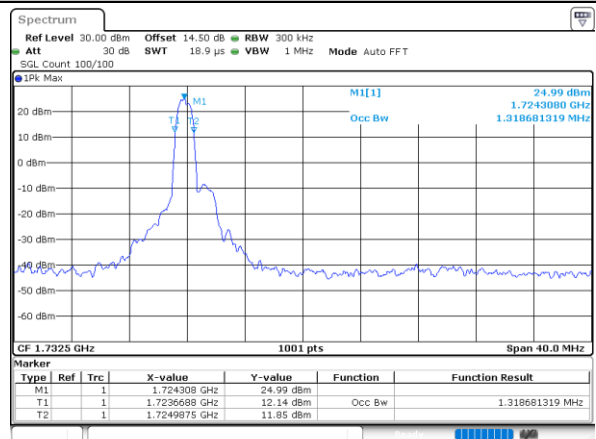
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

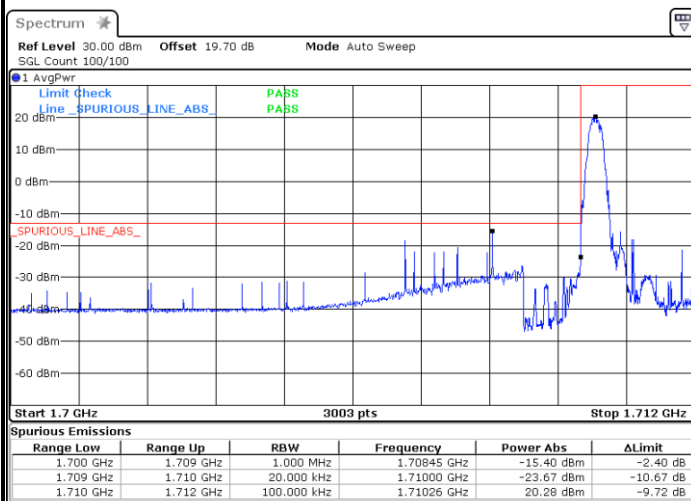




Conducted Band Edge

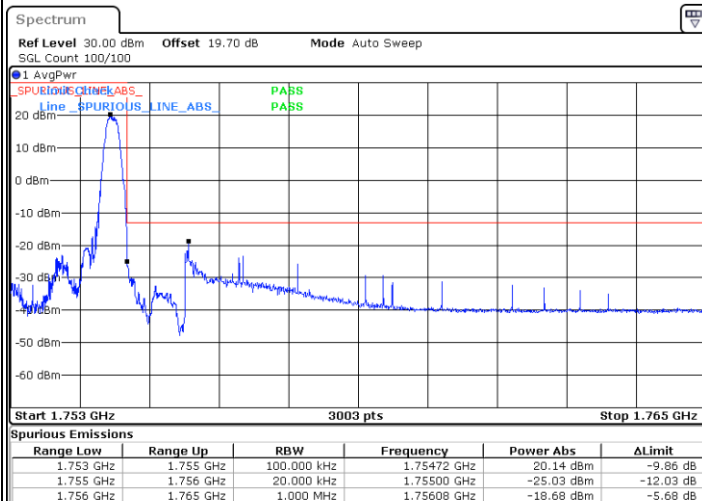
LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



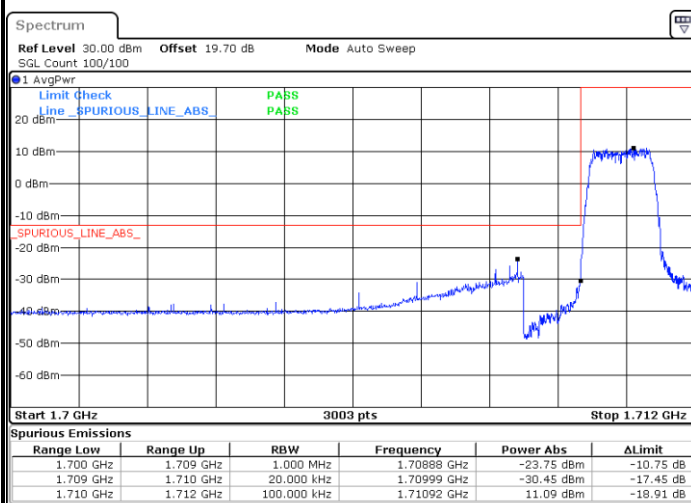
Date: 30.JUN.2025 10:59:49

Highest Band Edge / 1RB



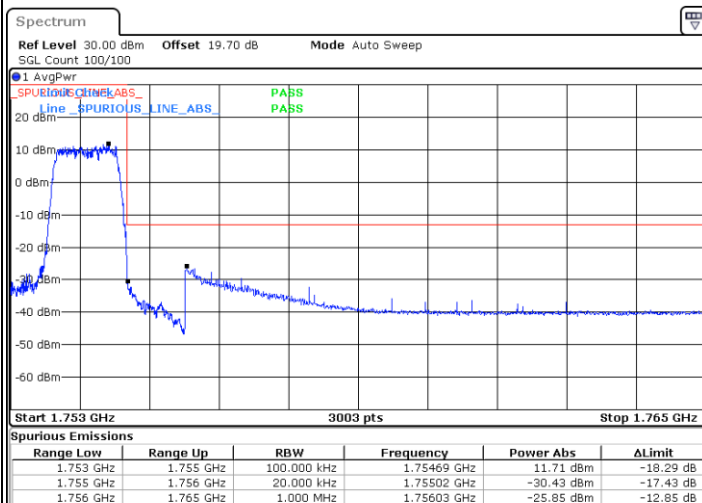
Date: 30.JUN.2025 11:05:49

Lowest Band Edge / Full RB



Date: 30.JUN.2025 11:00:17

Highest Band Edge / Full RB

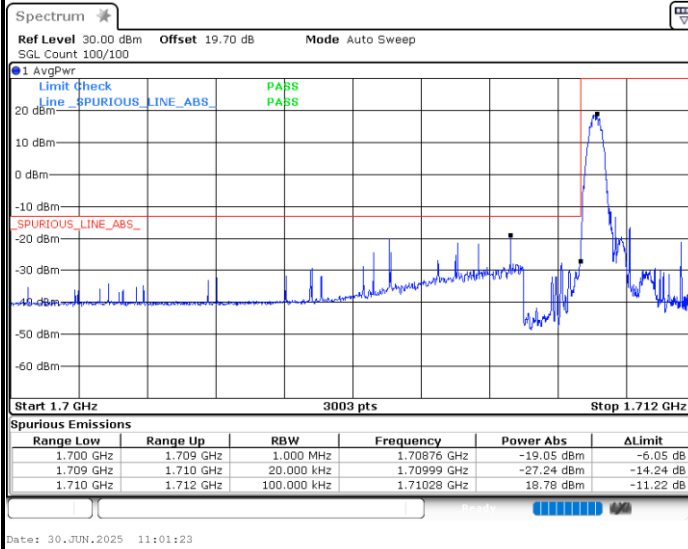


Date: 30.JUN.2025 11:06:58

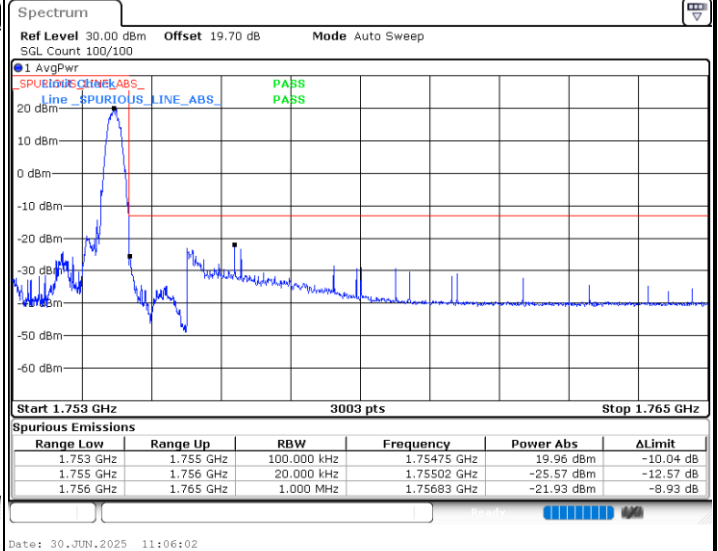


LTE Band 4 / 1.4MHz / 16QAM

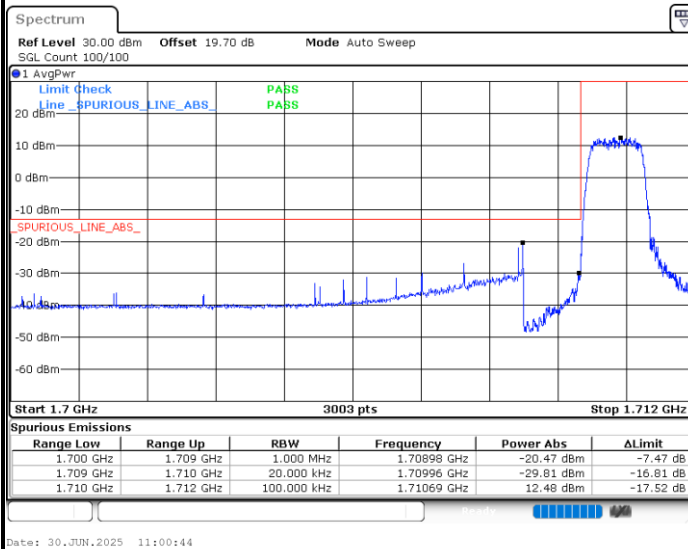
Lowest Band Edge / 1 RB



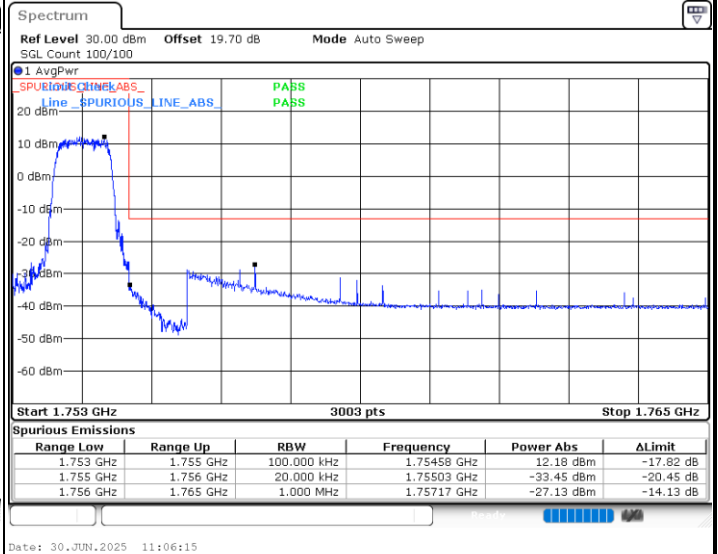
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



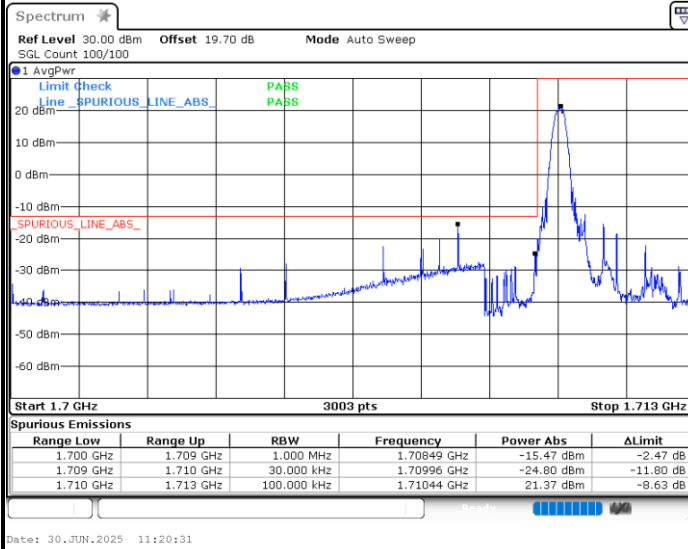
Highest Band Edge / Full RB





LTE Band 4 / 3MHz / QPSK

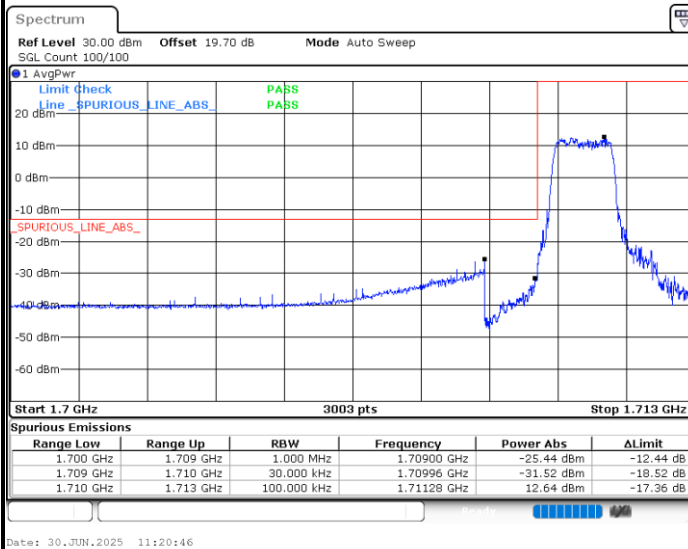
Lowest Band Edge / 1RB



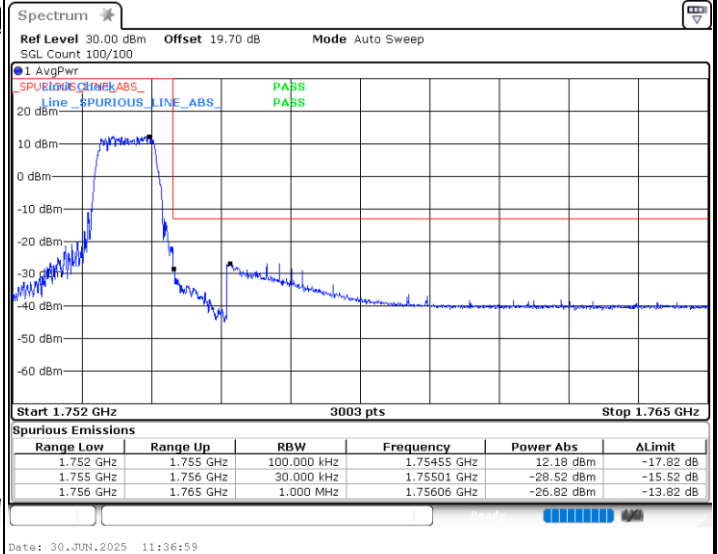
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



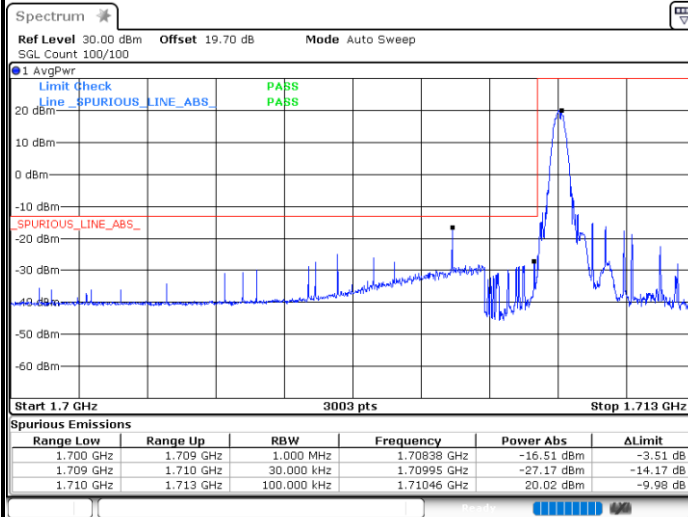
Highest Band Edge / Full RB





LTE Band 4 / 3MHz / 16QAM

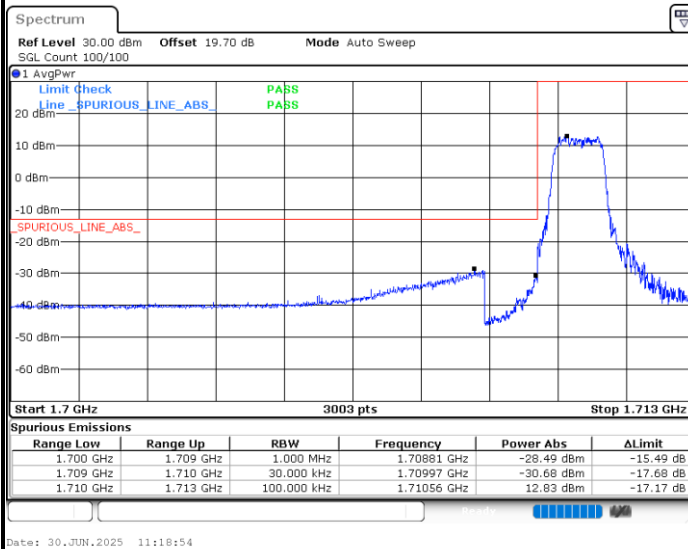
Lowest Band Edge / 1 RB



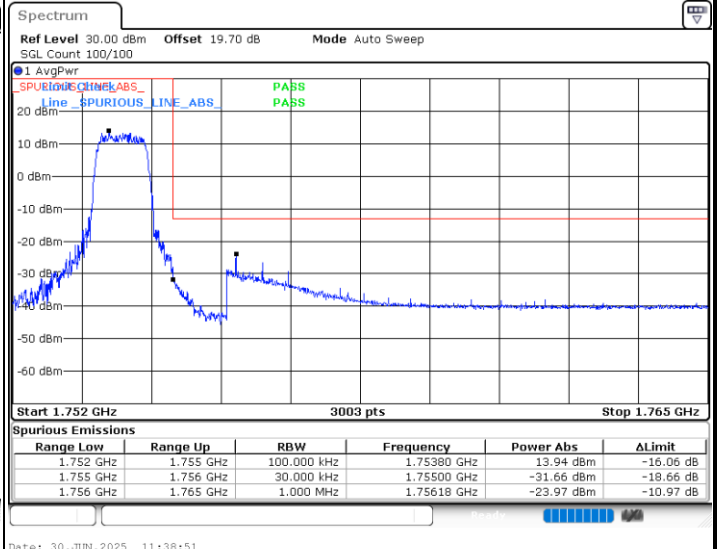
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



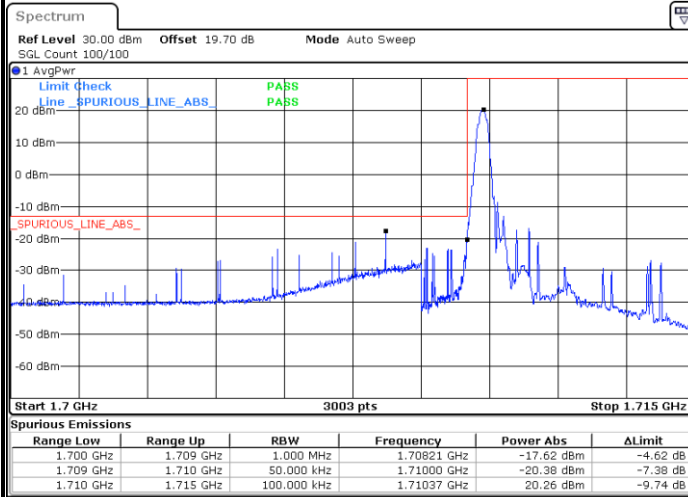
Highest Band Edge / Full RB





LTE Band 4 / 5MHz / QPSK

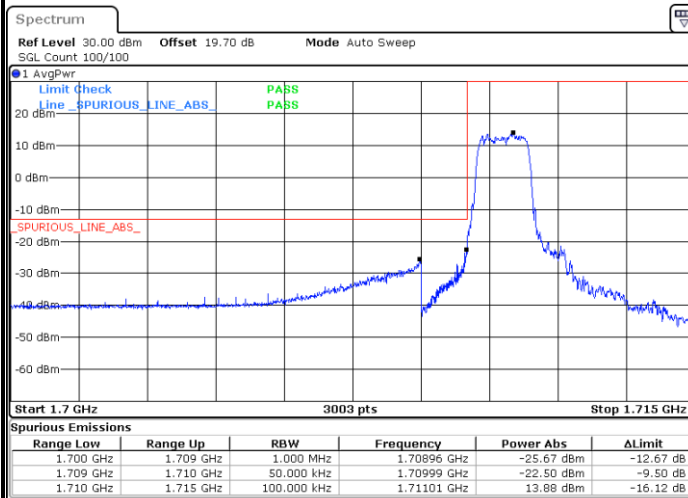
Lowest Band Edge / 1RB



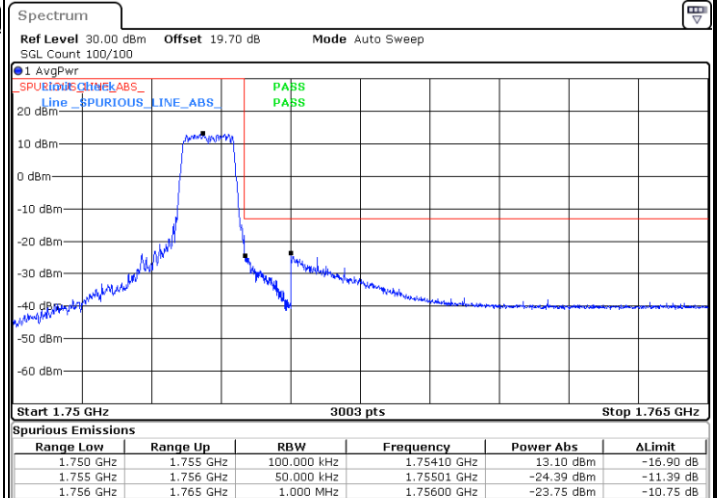
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



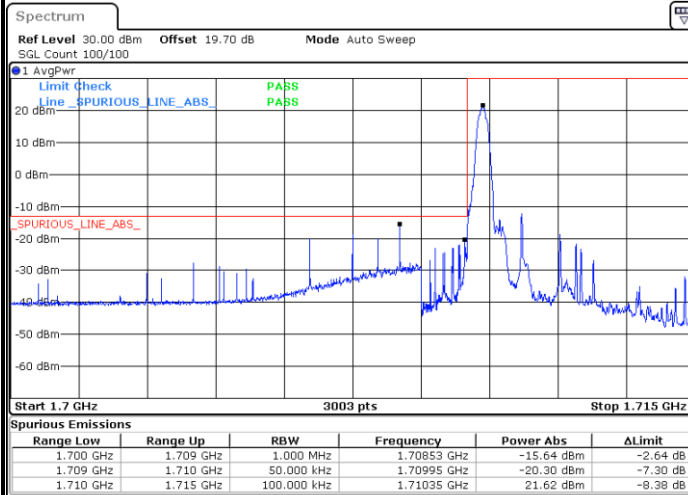
Highest Band Edge / Full RB



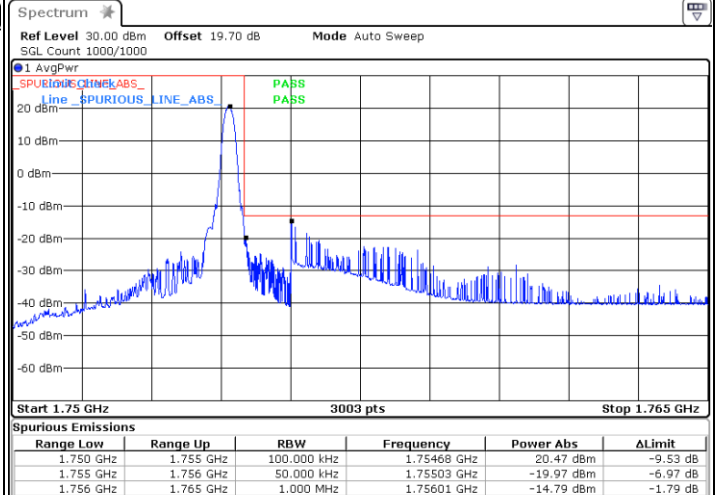


LTE Band 4 / 5MHz / 16QAM

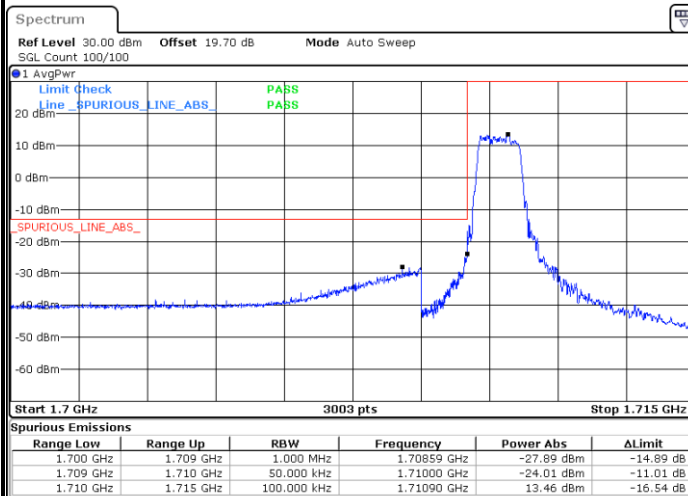
Lowest Band Edge / 1 RB



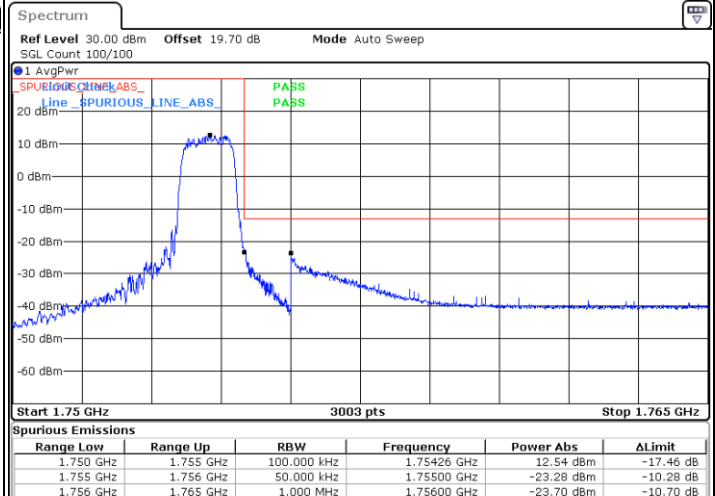
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



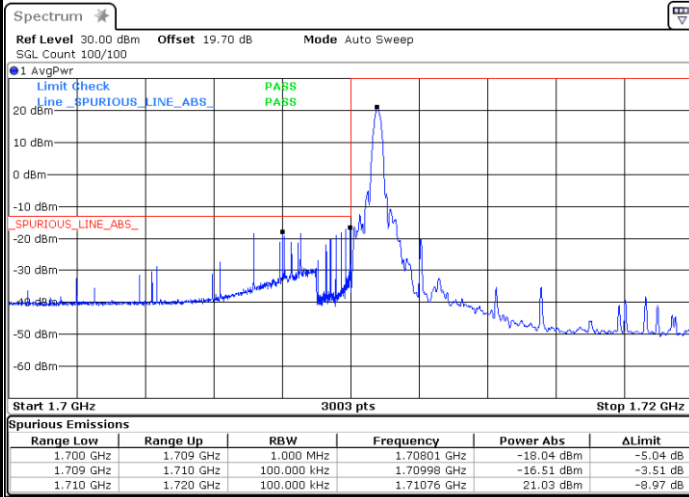
Highest Band Edge / Full RB



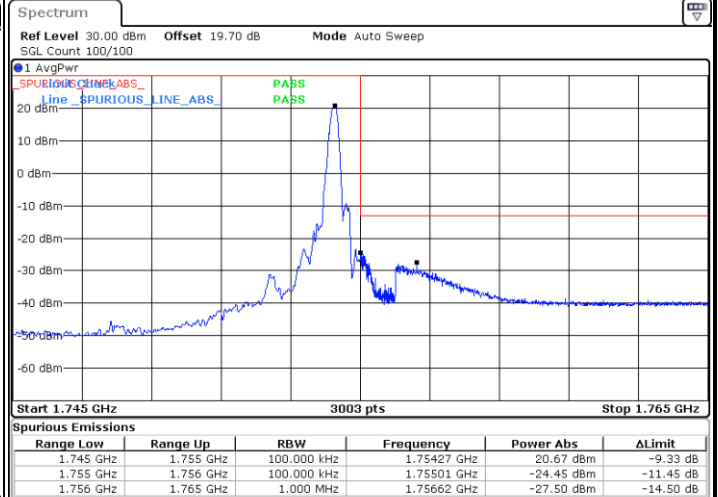


LTE Band 4 / 10MHz / QPSK

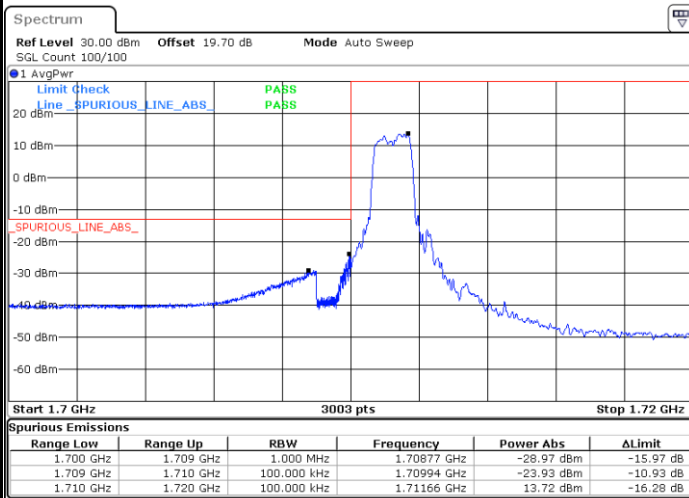
Lowest Band Edge / 1RB



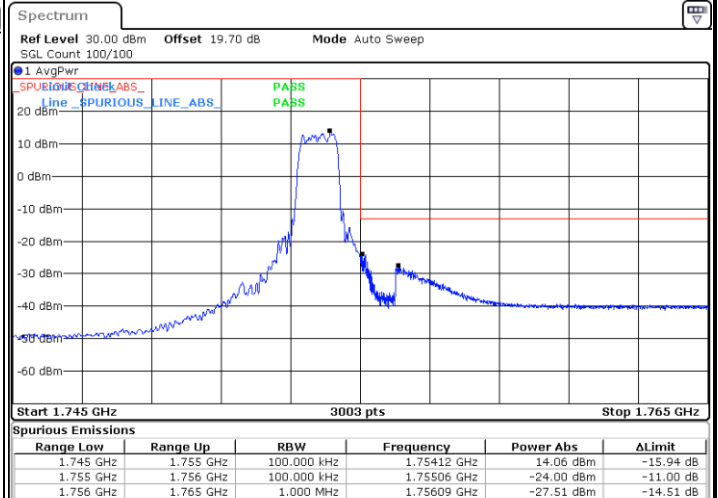
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



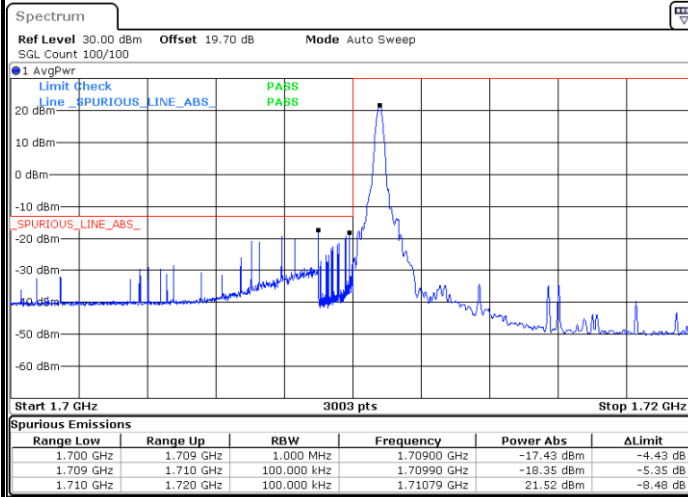
Highest Band Edge / Full RB



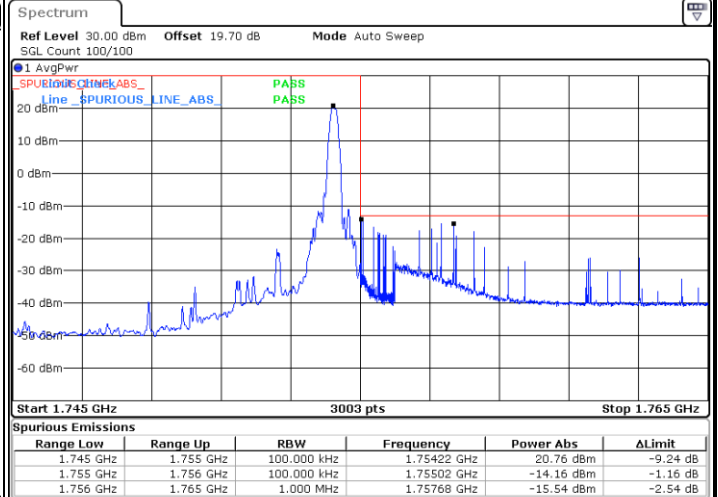


LTE Band 4 / 10MHz / 16QAM

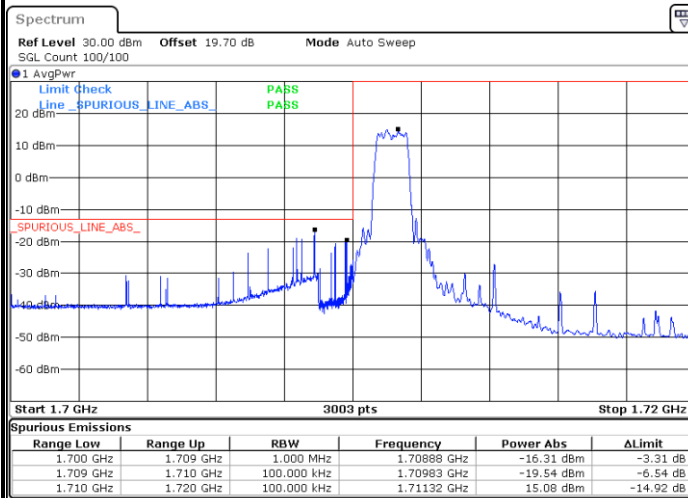
Lowest Band Edge / 1 RB



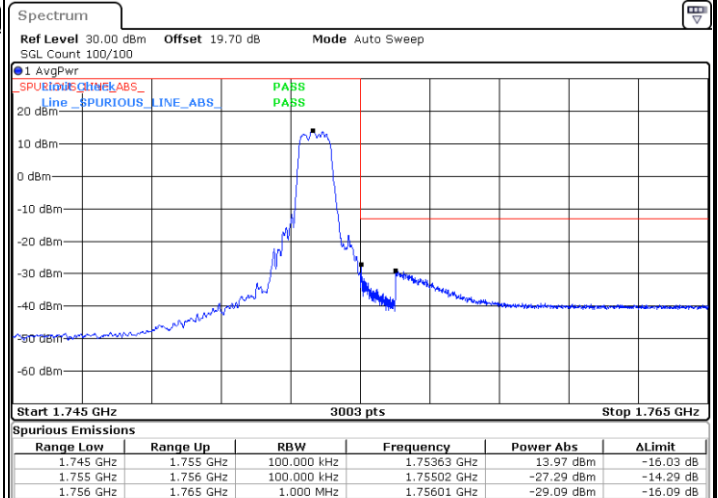
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



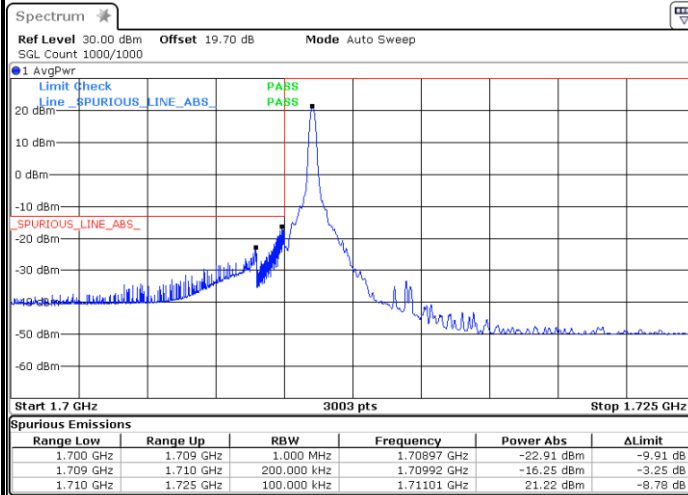
Highest Band Edge / Full RB



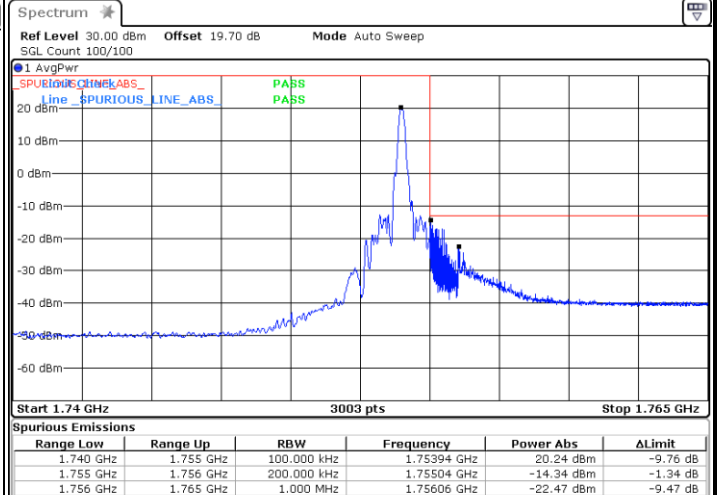


LTE Band 4 / 15MHz / QPSK

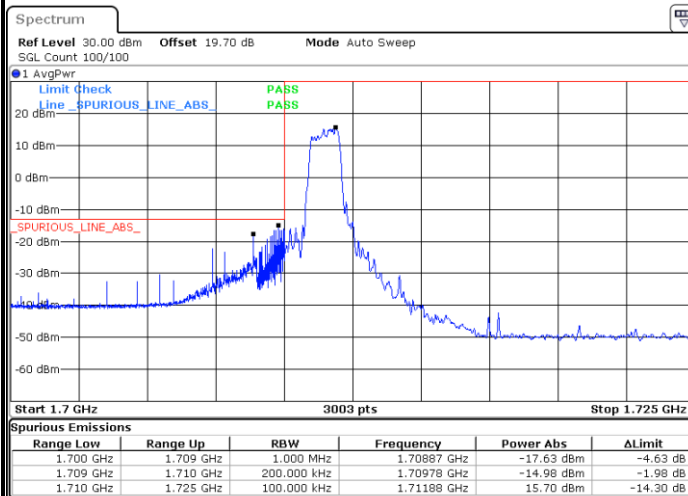
Lowest Band Edge / 1RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



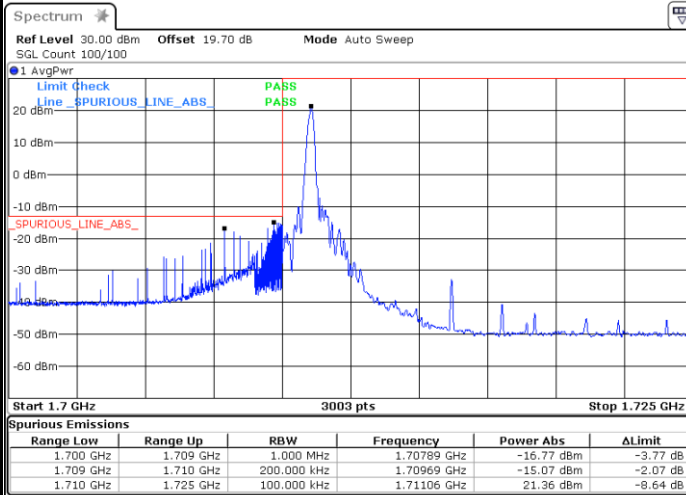
Highest Band Edge / Full RB



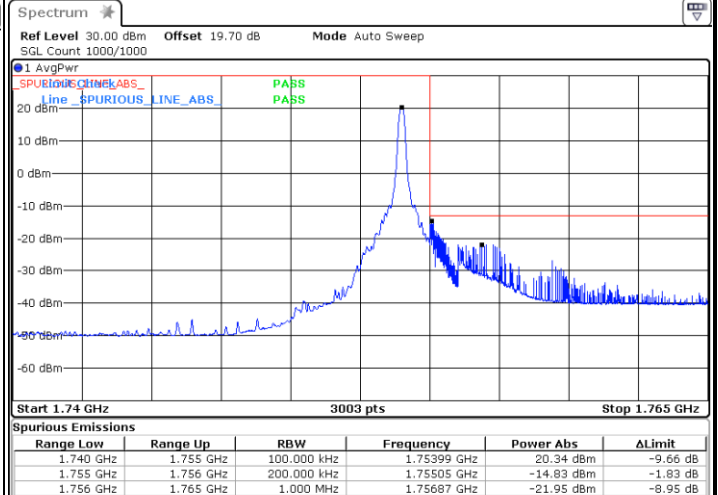


LTE Band 4 / 15MHz / 16QAM

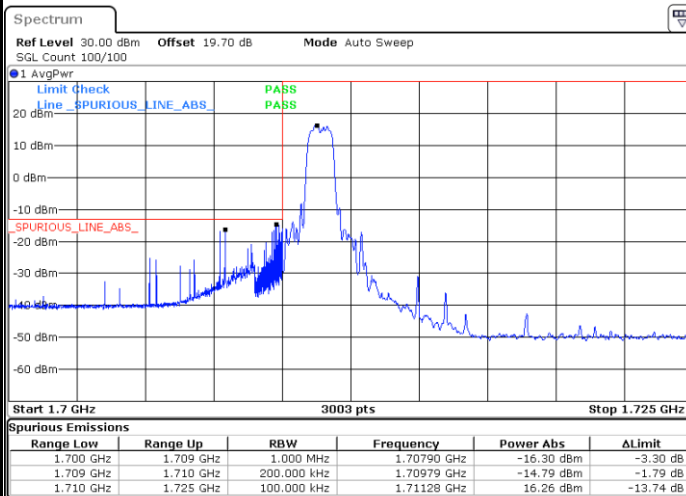
Lowest Band Edge / 1 RB



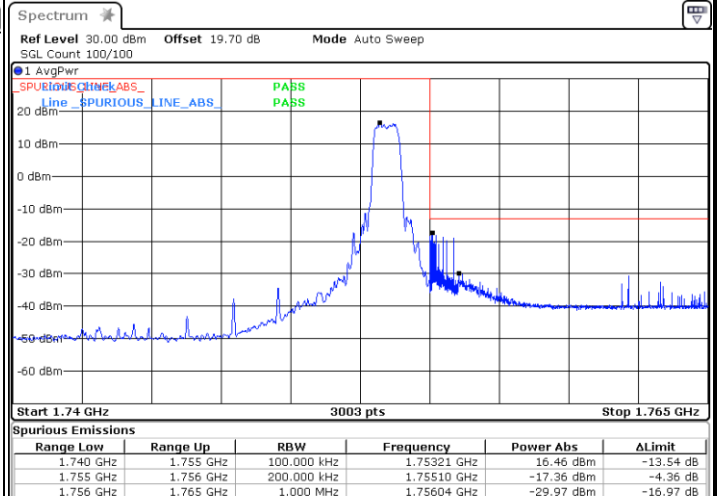
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



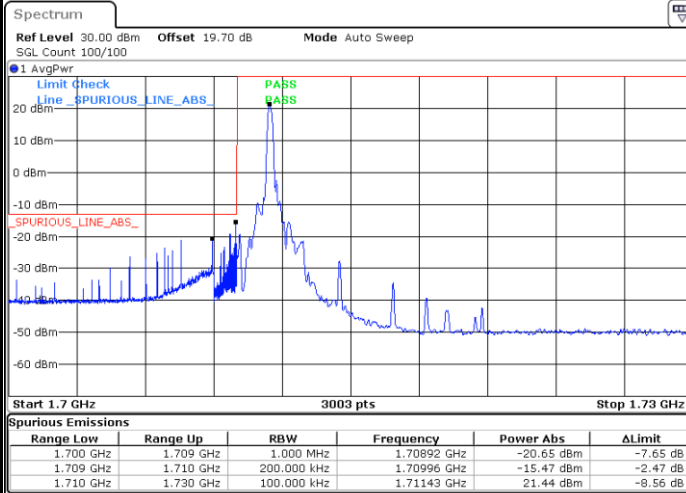
Highest Band Edge / Full RB



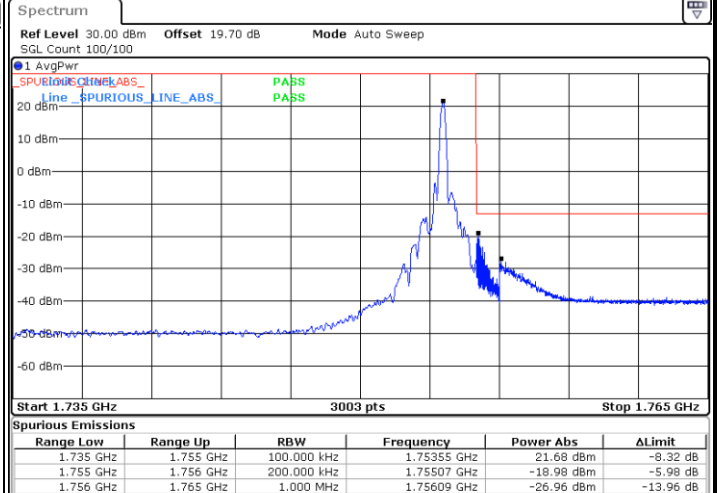


LTE Band 4 / 20MHz / QPSK

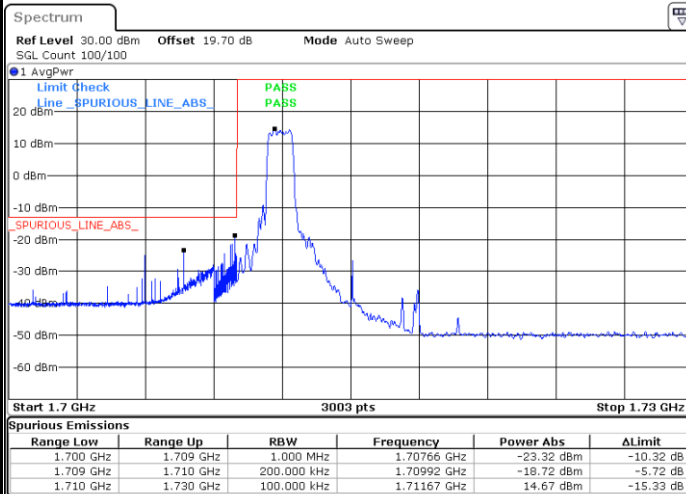
Lowest Band Edge / 1RB



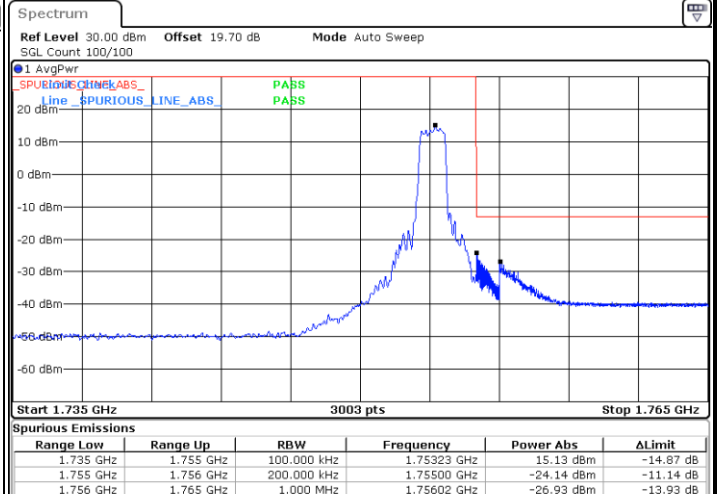
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



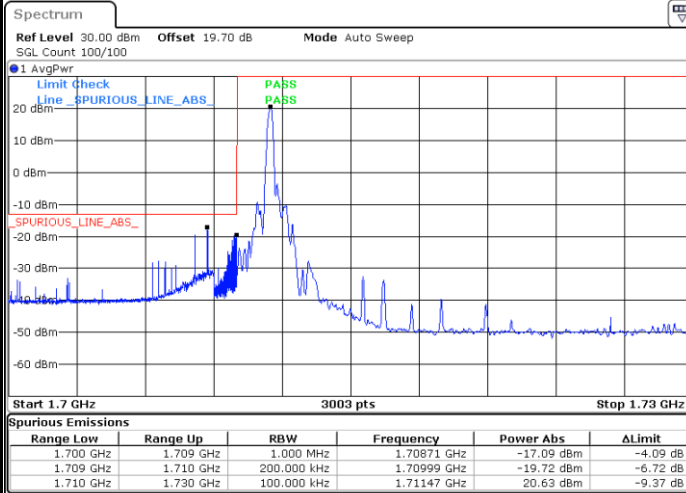
Highest Band Edge / Full RB



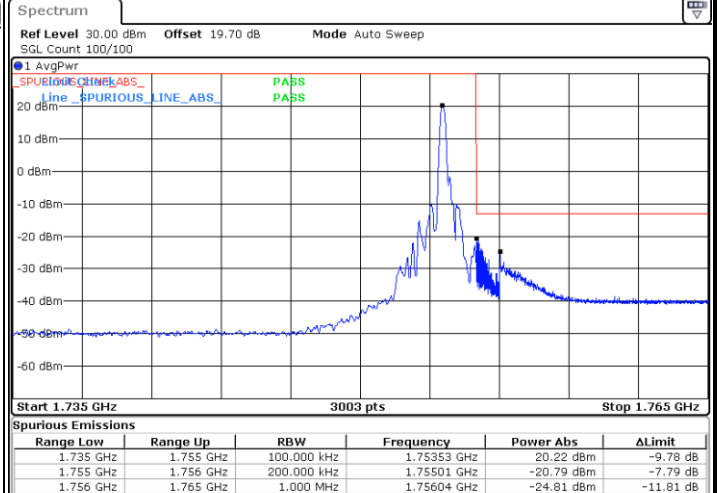


LTE Band 4 / 20MHz / 16QAM

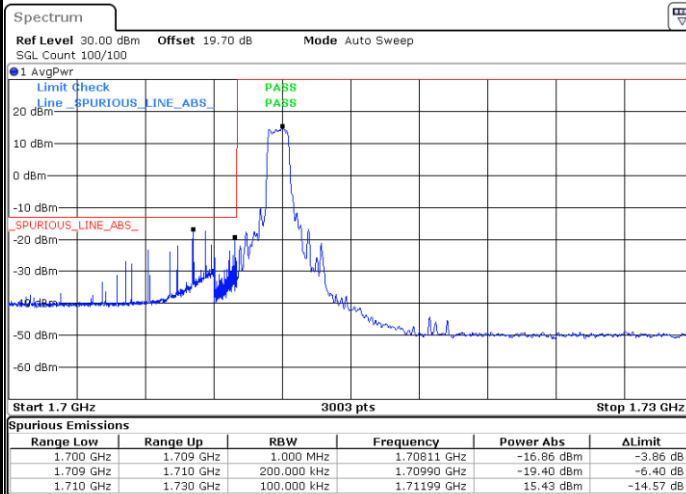
Lowest Band Edge / 1 RB



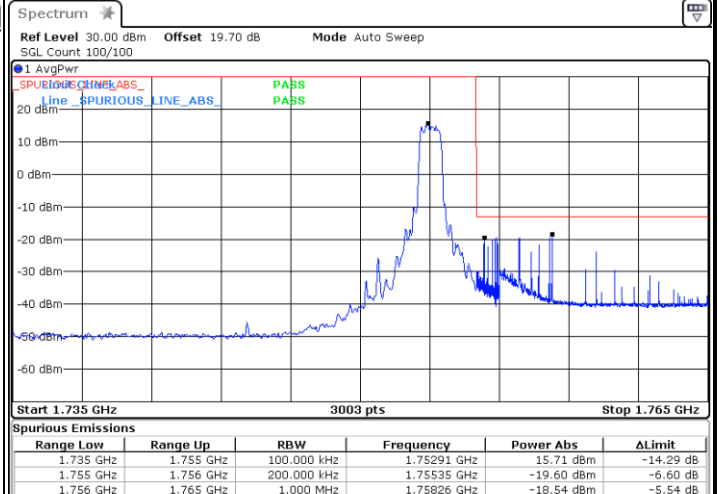
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

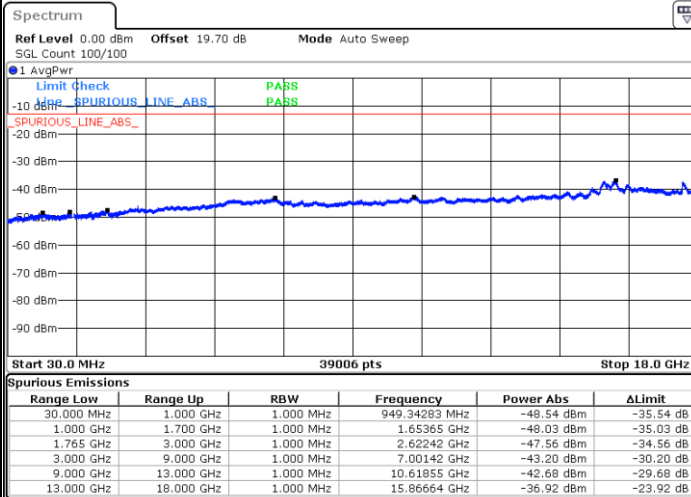




Conducted Spurious Emission

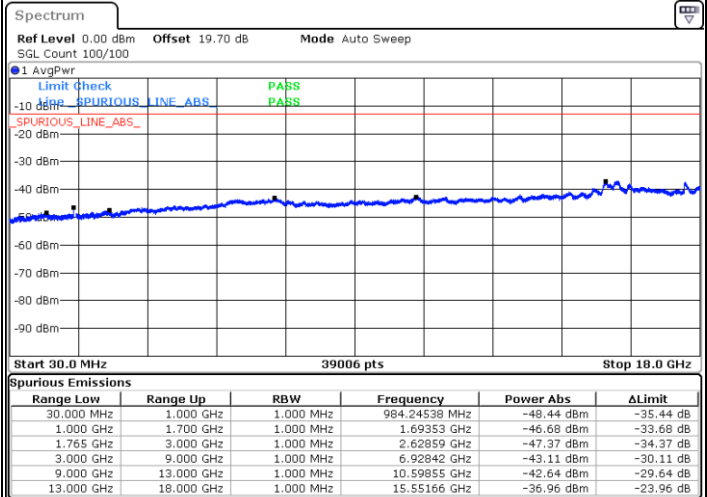
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



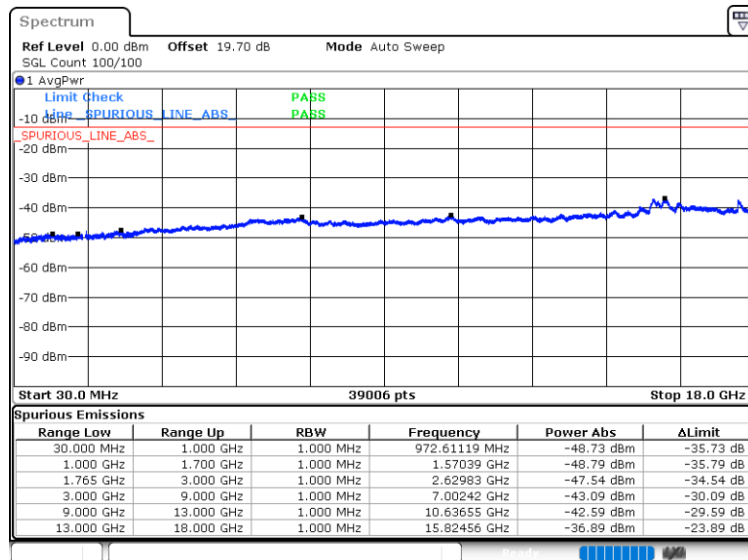
Date: 30.JUN.2025 10:59:22

Middle Channel / QPSK



Date: 30.JUN.2025 11:03:44

Highest Channel / QPSK

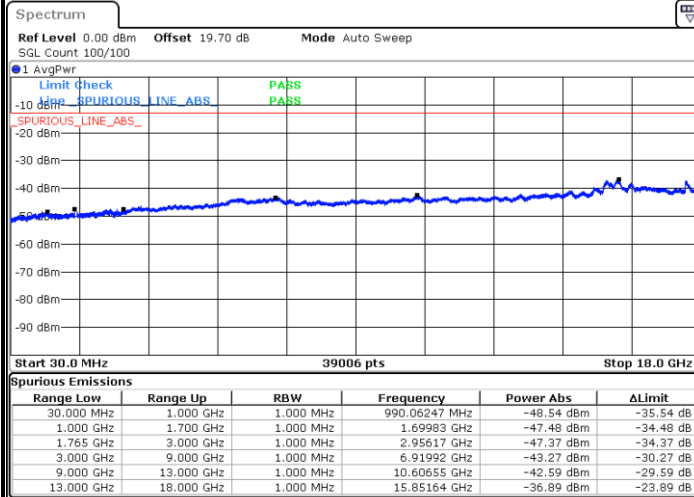


Date: 30.JUN.2025 11:07:55



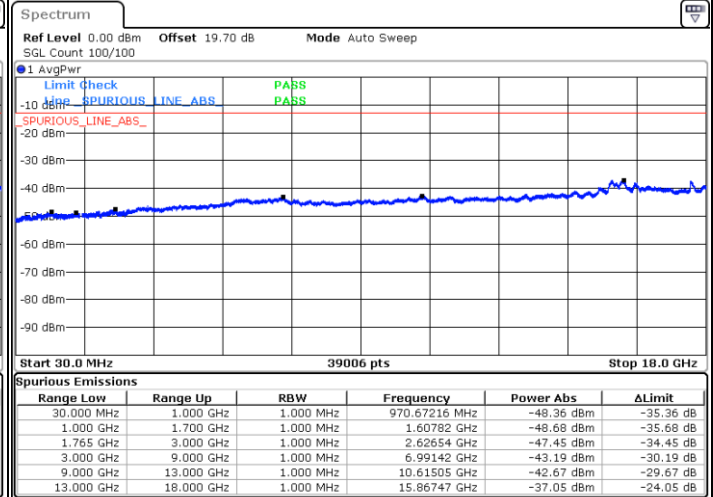
LTE Band 4 / 3MHz

Lowest Channel / QPSK



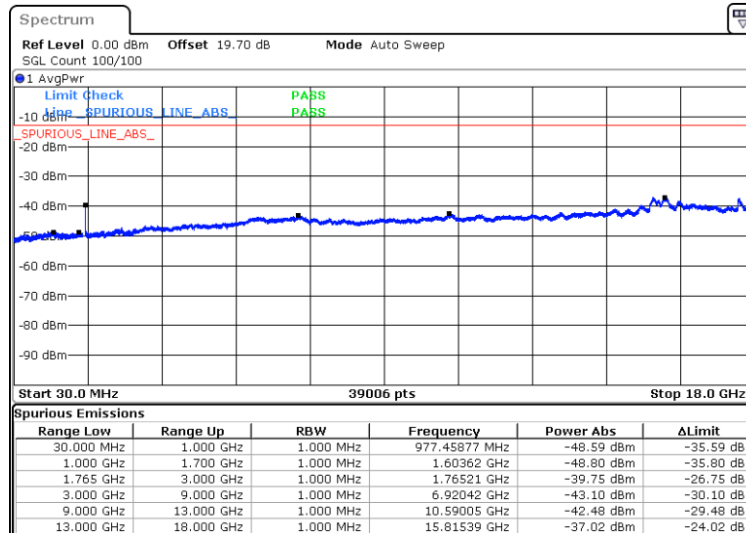
Date: 30.JUN.2025 11:20:03

Middle Channel / QPSK



Date: 30.JUN.2025 11:10:45

Highest Channel / QPSK



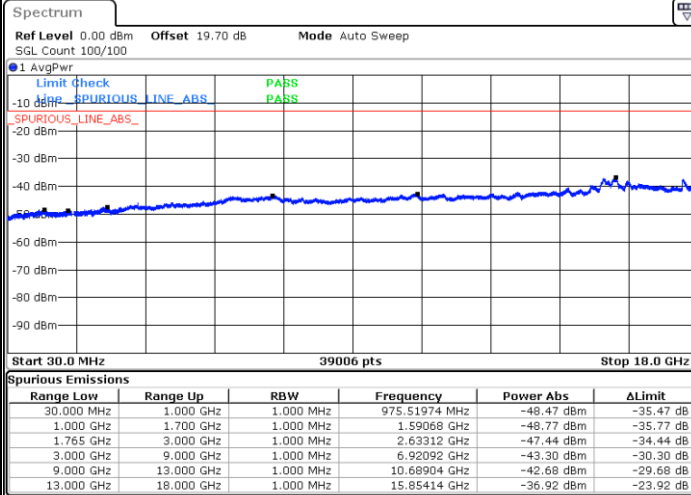
Date: 30.JUN.2025 11:37:49



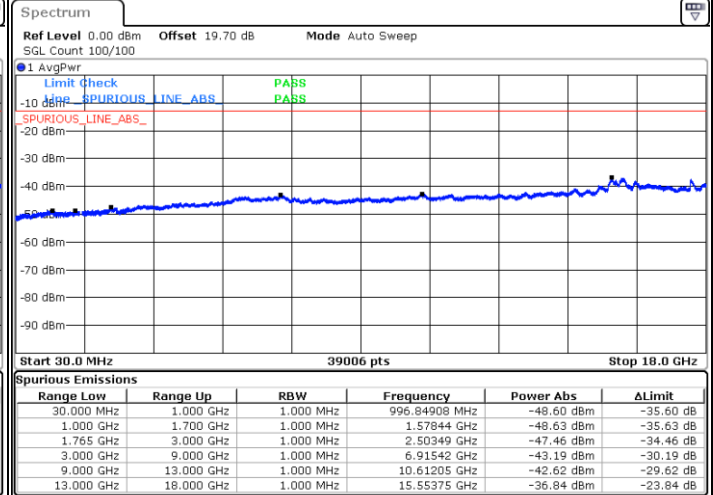
LTE Band 4 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

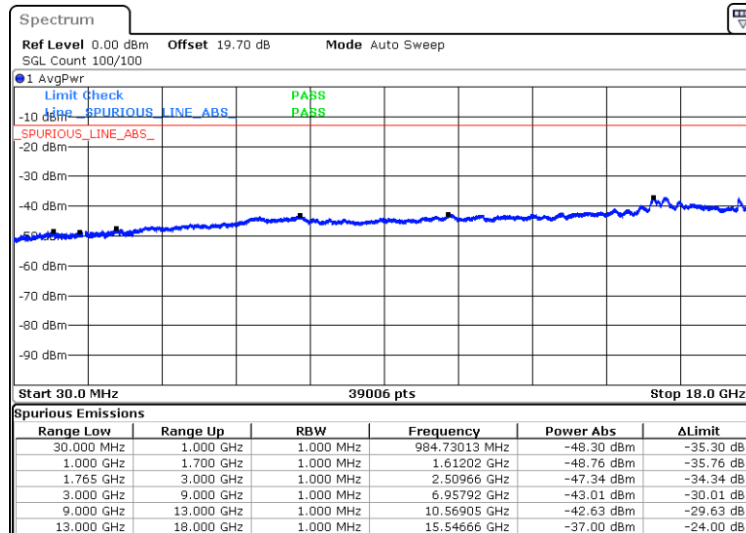


Date: 30.JUN.2025 11:41:33



Date: 30.JUN.2025 11:44:13

Highest Channel / QPSK



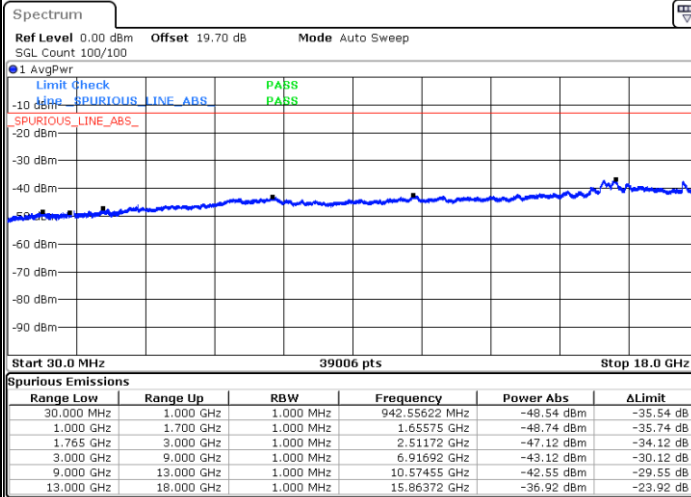
Date: 30.JUN.2025 11:45:15



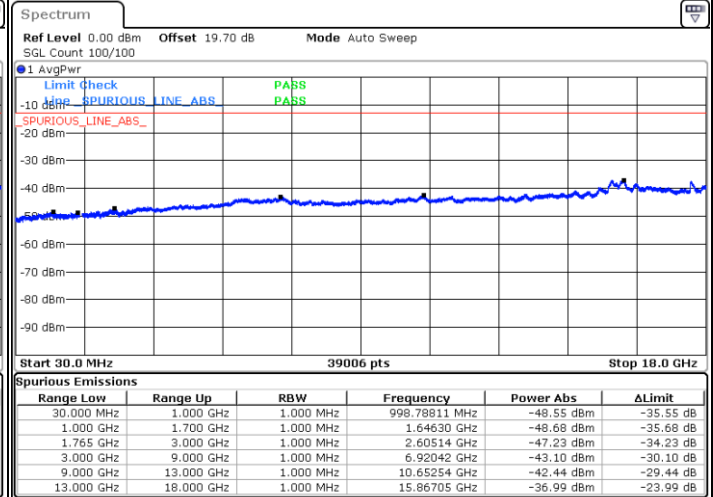
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

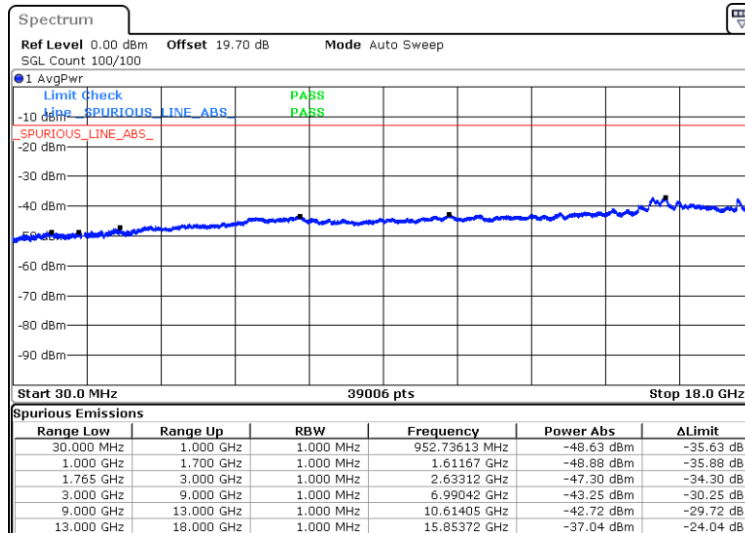


Date: 30.JUN.2025 11:49:03



Date: 30.JUN.2025 11:52:25

Highest Channel / QPSK

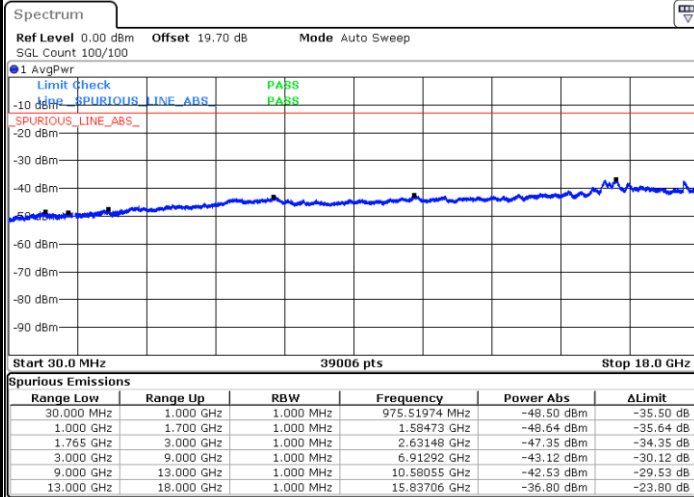


Date: 30.JUN.2025 11:53:54



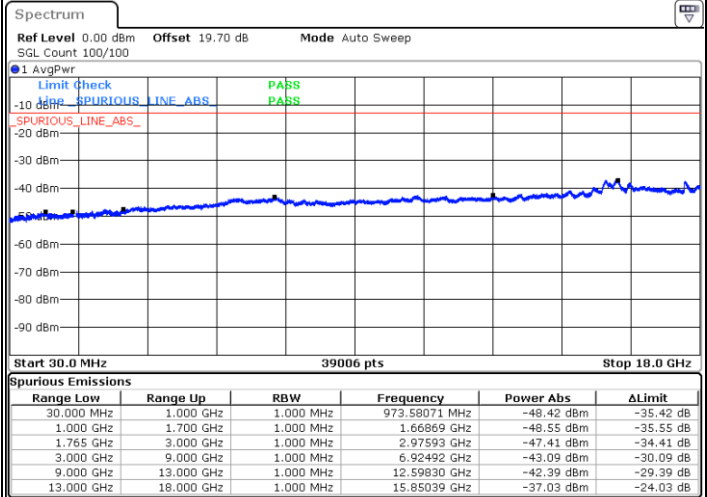
LTE Band 4 / 15MHz

Lowest Channel / QPSK



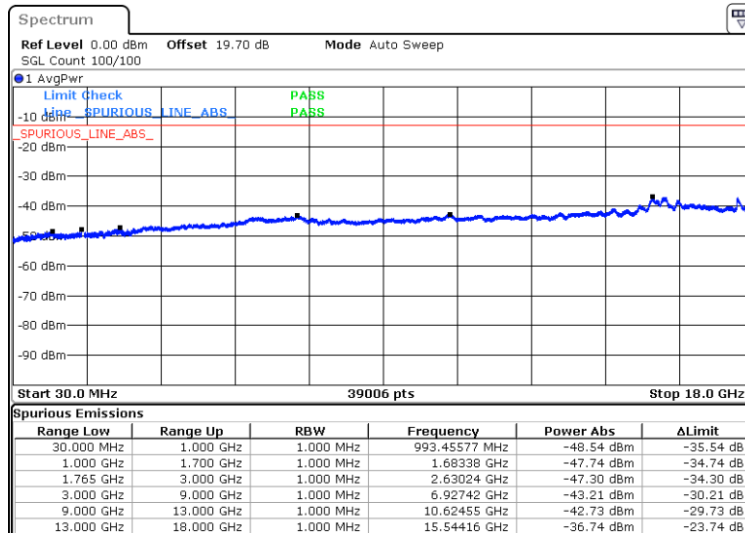
Date: 30.JUN.2025 13:22:00

Middle Channel / QPSK



Date: 30.JUN.2025 13:29:10

Highest Channel / QPSK

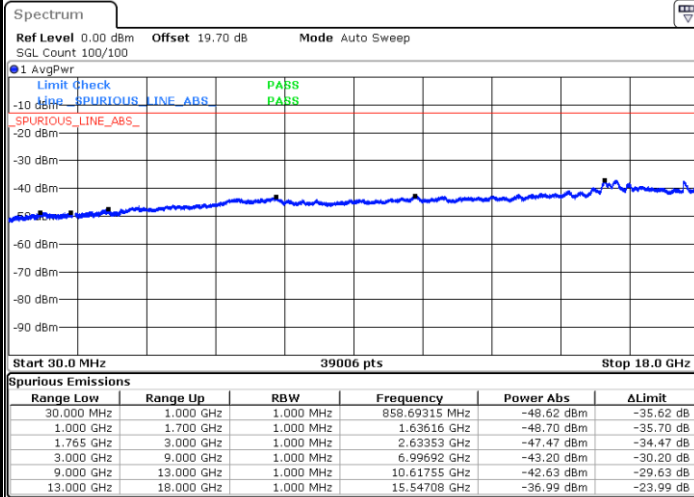


Date: 30.JUN.2025 13:31:10



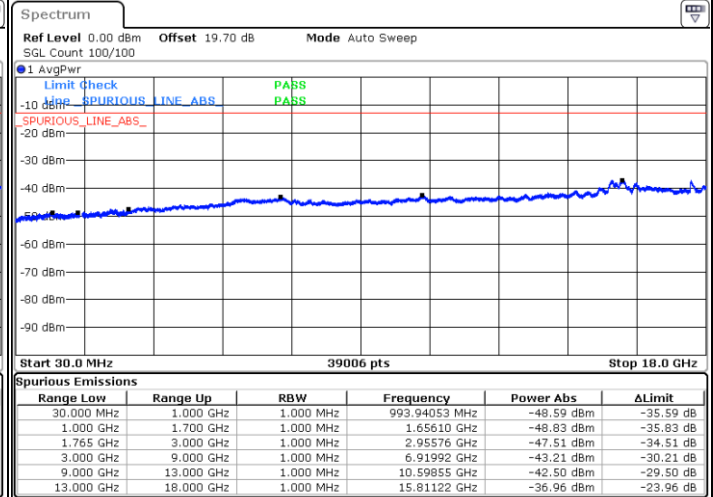
LTE Band 4 / 20MHz

Lowest Channel / QPSK



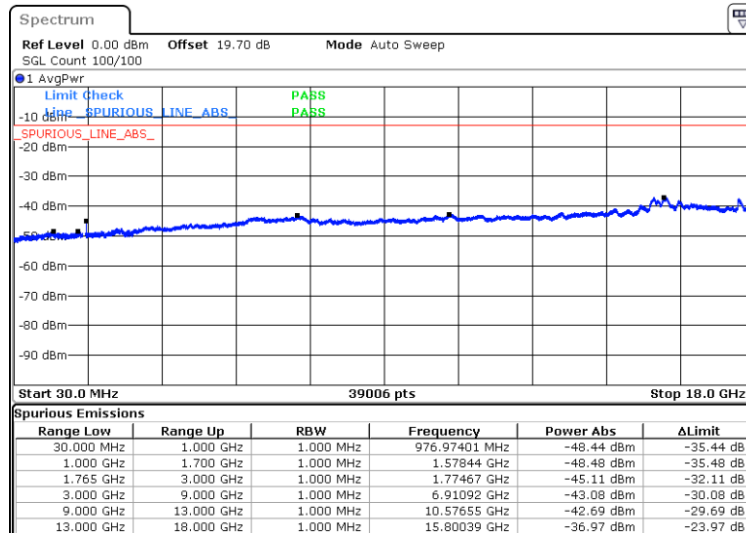
Date: 30.JUN.2025 13:36:36

Middle Channel / QPSK



Date: 30.JUN.2025 13:55:33

Highest Channel / QPSK



Date: 30.JUN.2025 13:43:43

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 1.4MHz	Within Band
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	2.7	PASS
40	Normal Voltage	-2.4	
30	Normal Voltage	2.5	
20(Ref.)	Normal Voltage	3.6	
10	Normal Voltage	2.4	
0	Normal Voltage	2.9	
-10	Normal Voltage	3.7	
-20	Normal Voltage	-2.3	
-30	Normal Voltage	4.4	
20	Maximum Voltage	4.2	
20	Normal Voltage	3.6	
20	Minimum Voltage	2.2	

Note:

1. Normal Voltage = 5 V. ; Minimum Voltage = 4.8 V. ; Maximum Voltage = 5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

$$|\text{MAX}(\Delta f)| = 4.4\text{Hz}$$

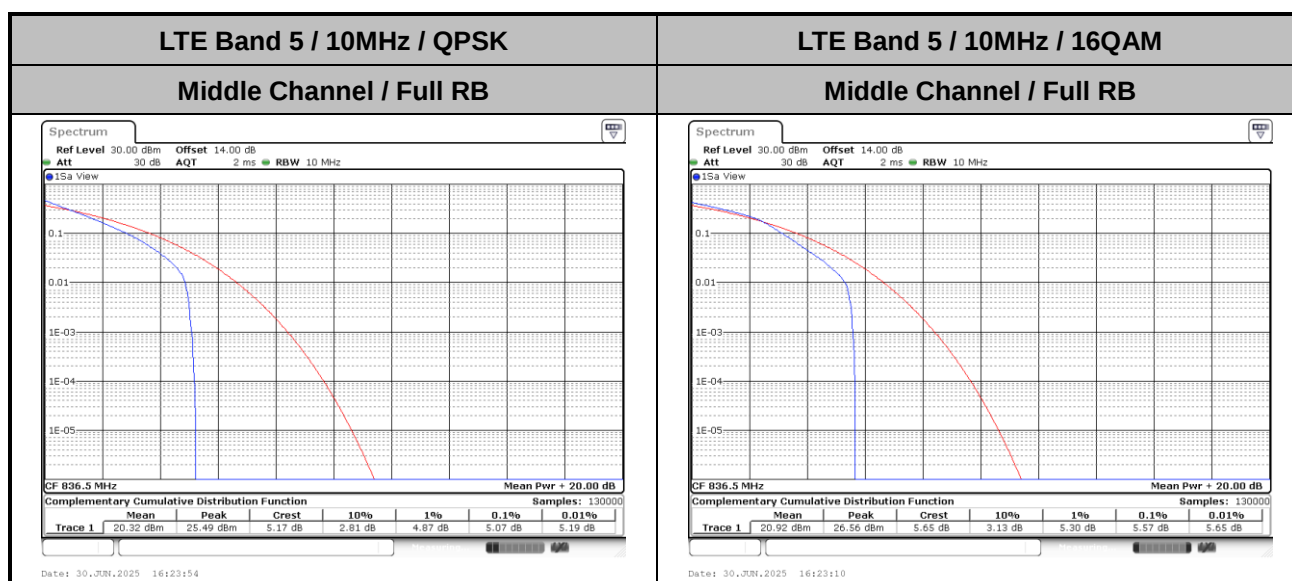
Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	1710.157336	$\geq 1710 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	1754.848254	$\leq 1755 \text{ MHz}$	



LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM		Limit: 13dB
RB Size	Full RB	Full RB		Result
Middle CH	5.07	5.57		PASS





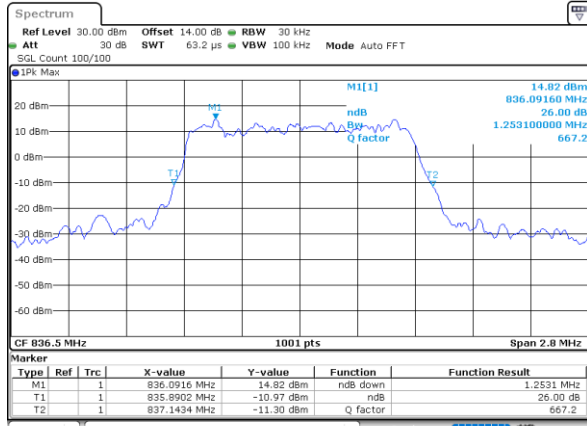
26dB Bandwidth

Mode	LTE Band 5 : 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	1.25	1.08	1.54	1.19	1.47	1.30	1.96	1.58	-	-	-	-

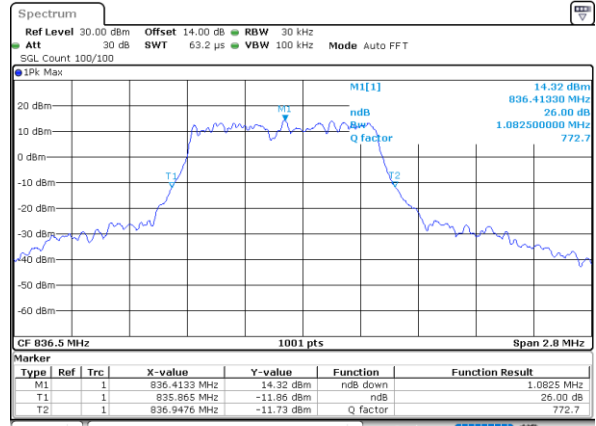


LTE Band 5

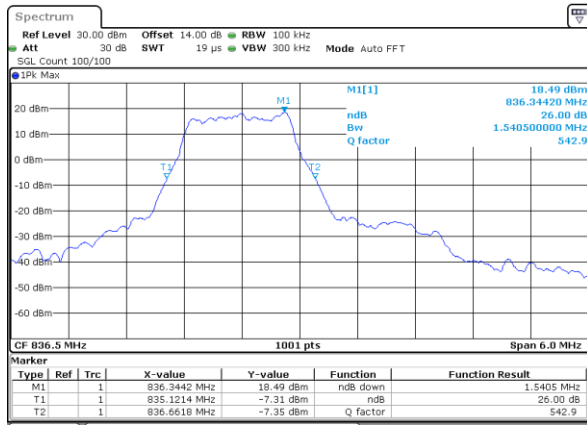
Middle Channel / 1.4MHz / QPSK



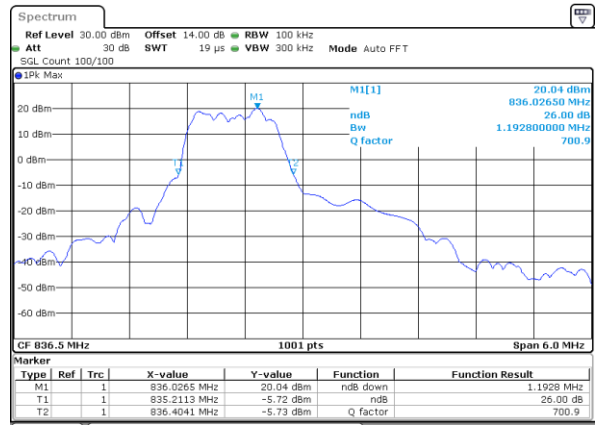
Middle Channel / 1.4MHz / 16QAM



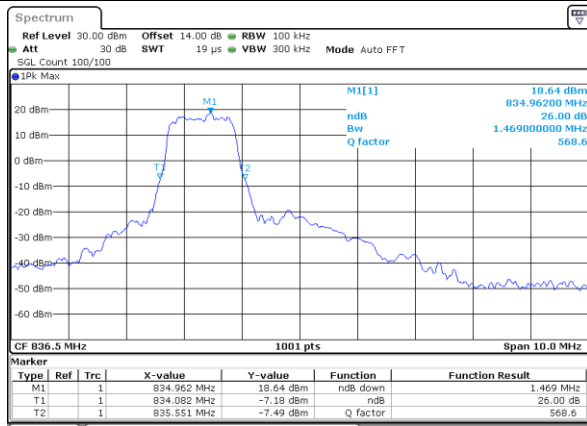
Middle Channel / 3MHz / QPSK



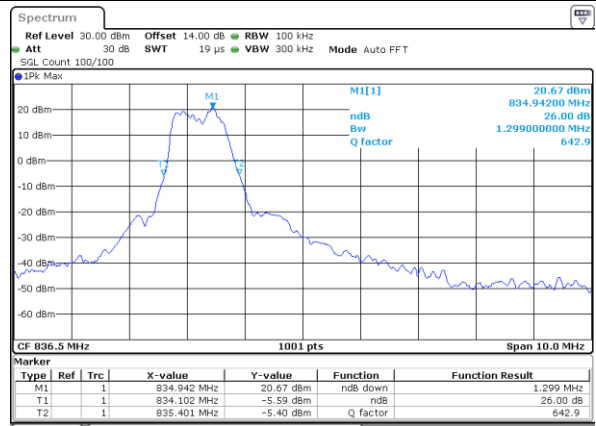
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



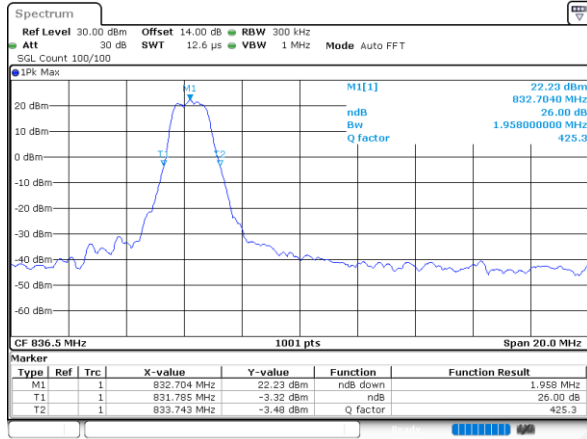
Middle Channel / 5MHz / 16QAM





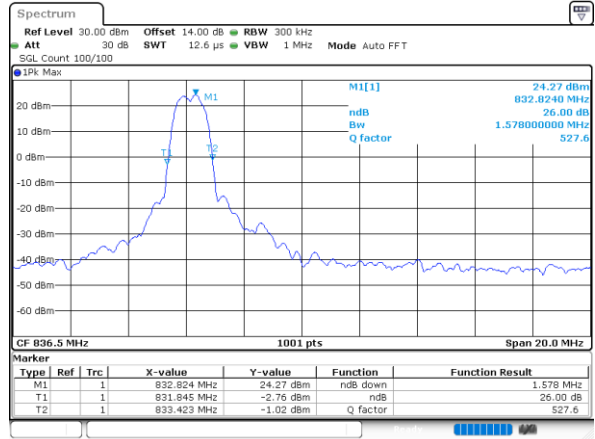
LTE Band 5

Middle Channel / 10MHz / QPSK



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Middle Channel / 10MHz / 16QAM



Date: 30 JUN 2025 16:11:35



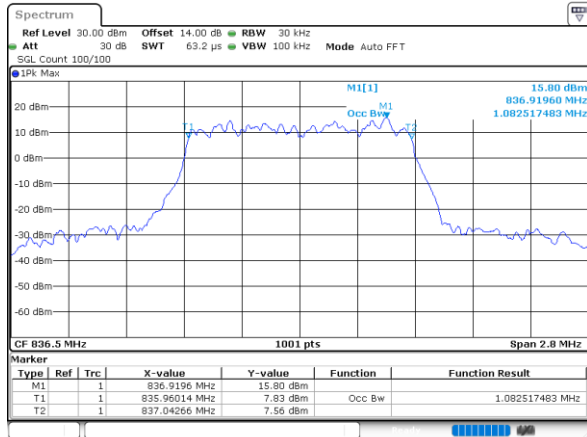
Occupied Bandwidth

Mode	LTE Band 5 : 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	1.08	0.91	1.19	1.03	1.17	1.00	1.54	1.28	-	-	-	-

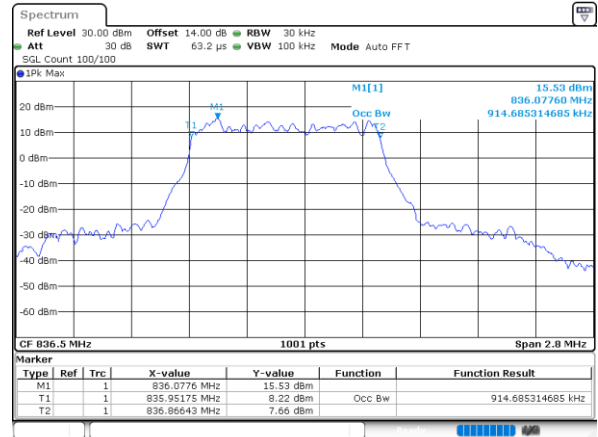


LTE Band 5

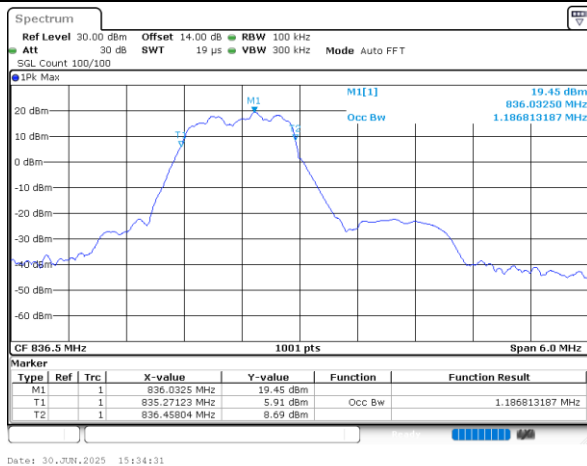
Middle Channel / 1.4MHz / QPSK



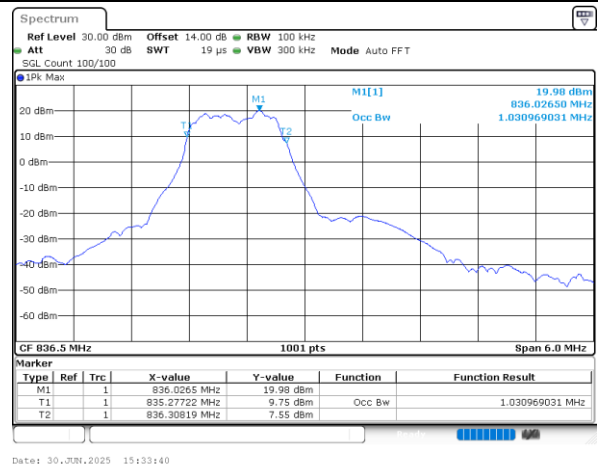
Middle Channel / 1.4MHz / 16QAM



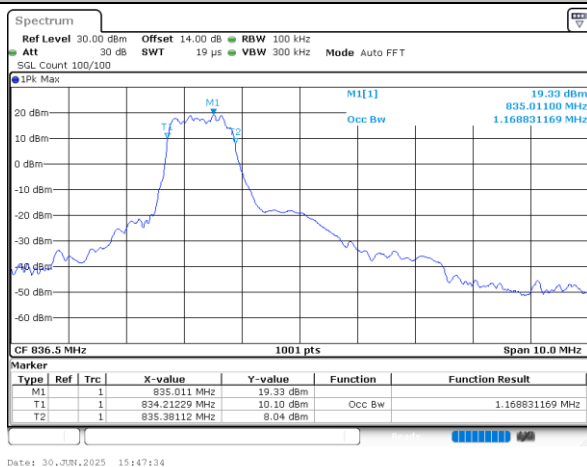
Middle Channel / 3MHz / QPSK



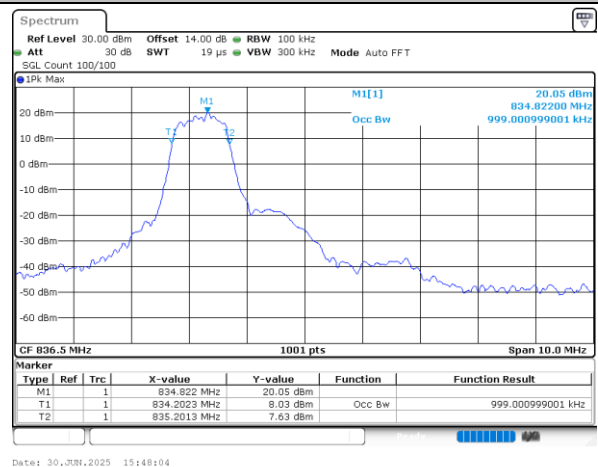
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



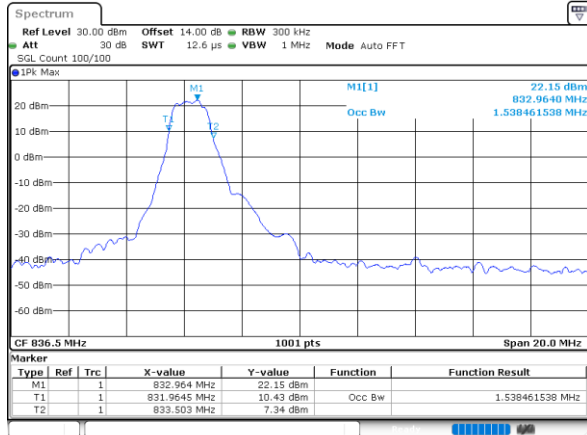
Middle Channel / 5MHz / 16QAM





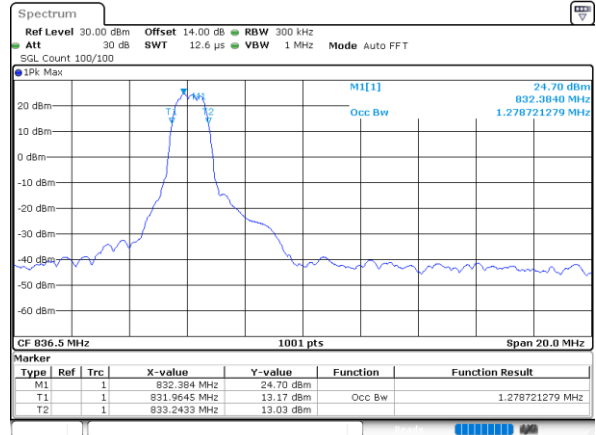
LTE Band 5

Middle Channel / 10MHz / QPSK



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Middle Channel / 10MHz / 16QAM



Date: 30 JUN 2025 16:11:22