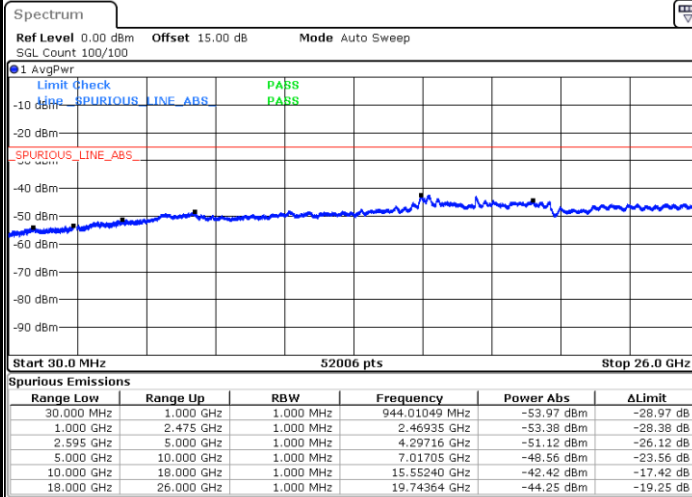




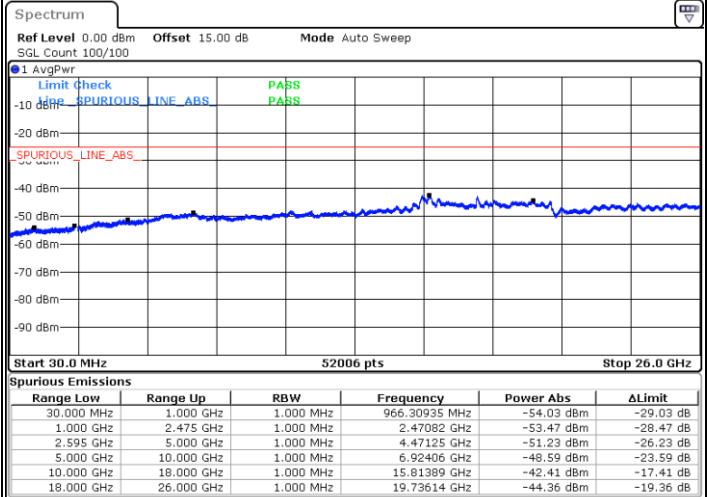
LTE Band 7 / 10MHz

Lowest Channel / QPSK



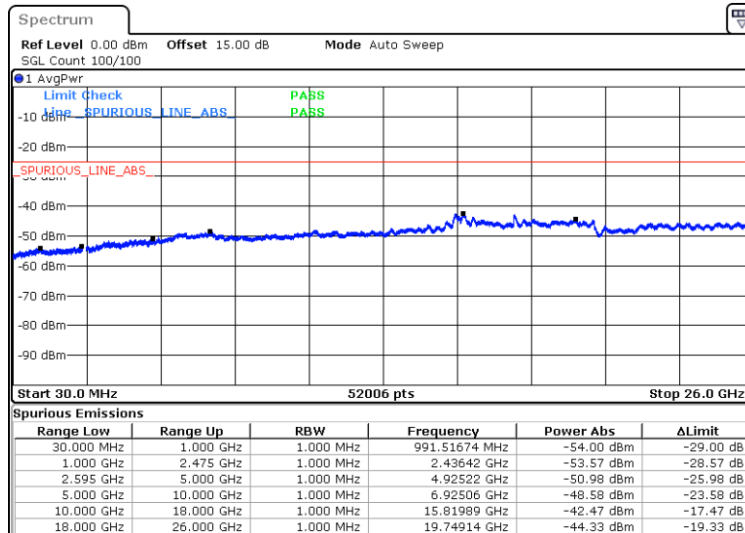
Date: 12.JUN.2025 15:41:25

Middle Channel / QPSK



Date: 12.JUN.2025 15:42:29

Highest Channel / QPSK

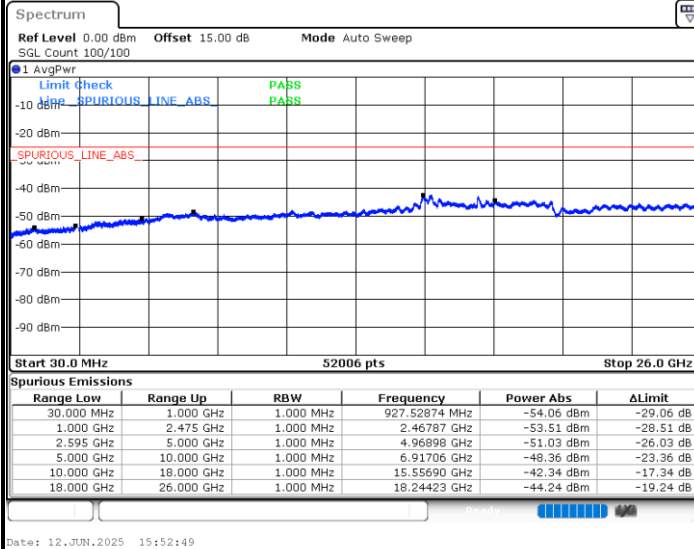


Date: 12.JUN.2025 15:47:56

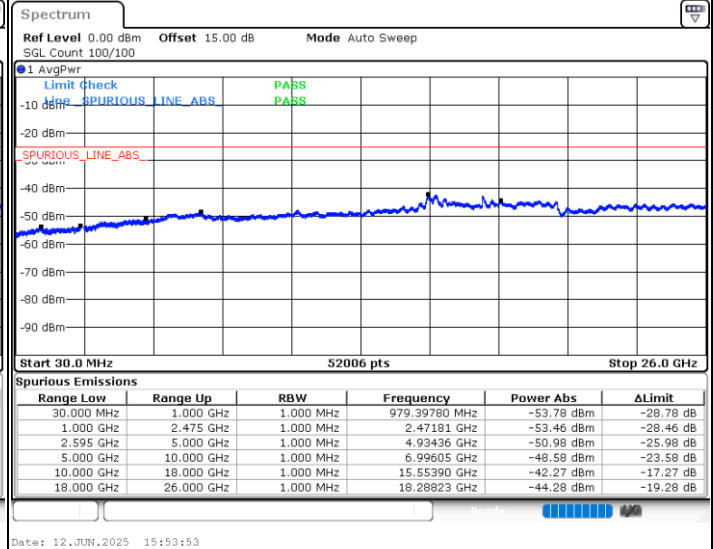


LTE Band 7 / 15MHz

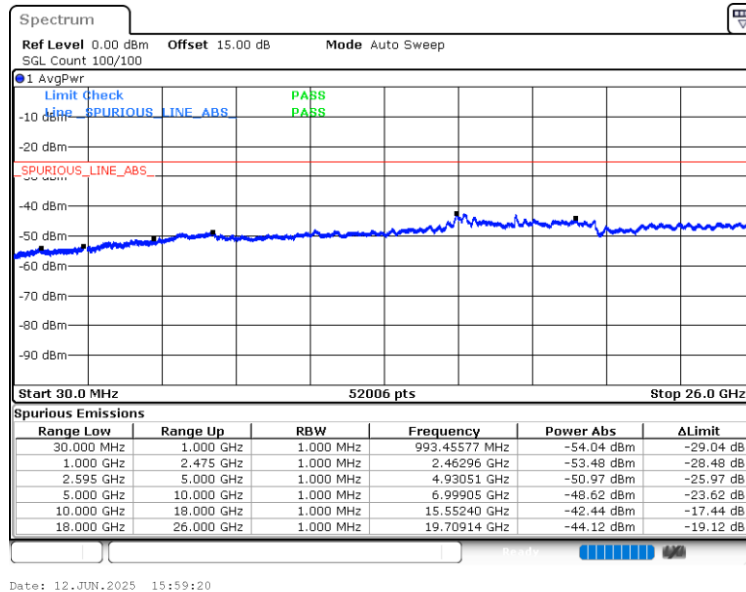
Lowest Channel / QPSK



Middle Channel / QPSK



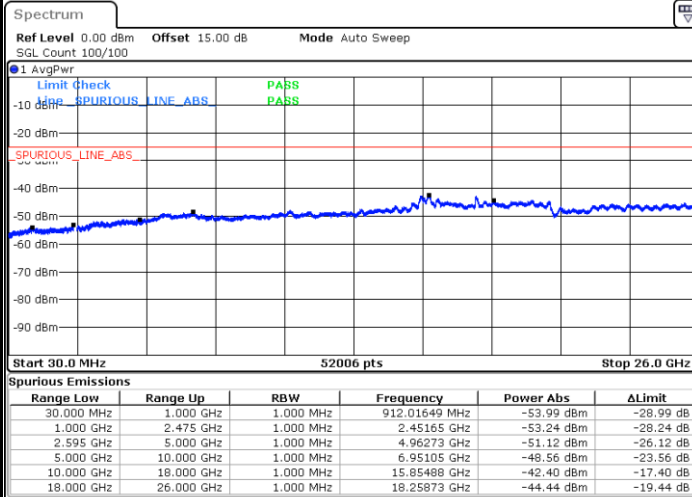
Highest Channel / QPSK





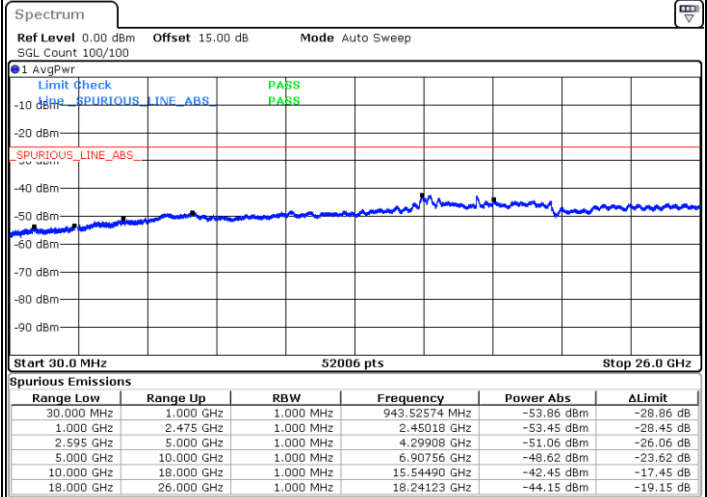
LTE Band 7 / 20MHz

Lowest Channel / QPSK



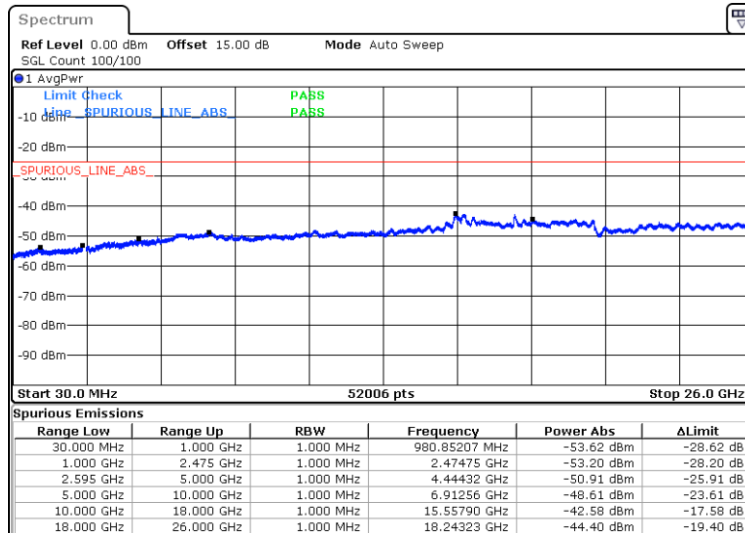
Date: 12.JUN.2025 16:04:13

Middle Channel / QPSK



Date: 12.JUN.2025 16:05:17

Highest Channel / QPSK



Date: 12.JUN.2025 16:12:04

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	1.8	PASS
40	Normal Voltage	2.5	
30	Normal Voltage	3.2	
20(Ref.)	Normal Voltage	2.8	
10	Normal Voltage	-2.6	
0	Normal Voltage	2.2	
-10	Normal Voltage	1.2	
-20	Normal Voltage	3.1	
-30	Normal Voltage	1.9	
20	Maximum Voltage	2.4	
20	Normal Voltage	2.8	
20	Battery End Point	-2.6	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

$$|MAX(\Delta f)| = 3.2\text{Hz}$$

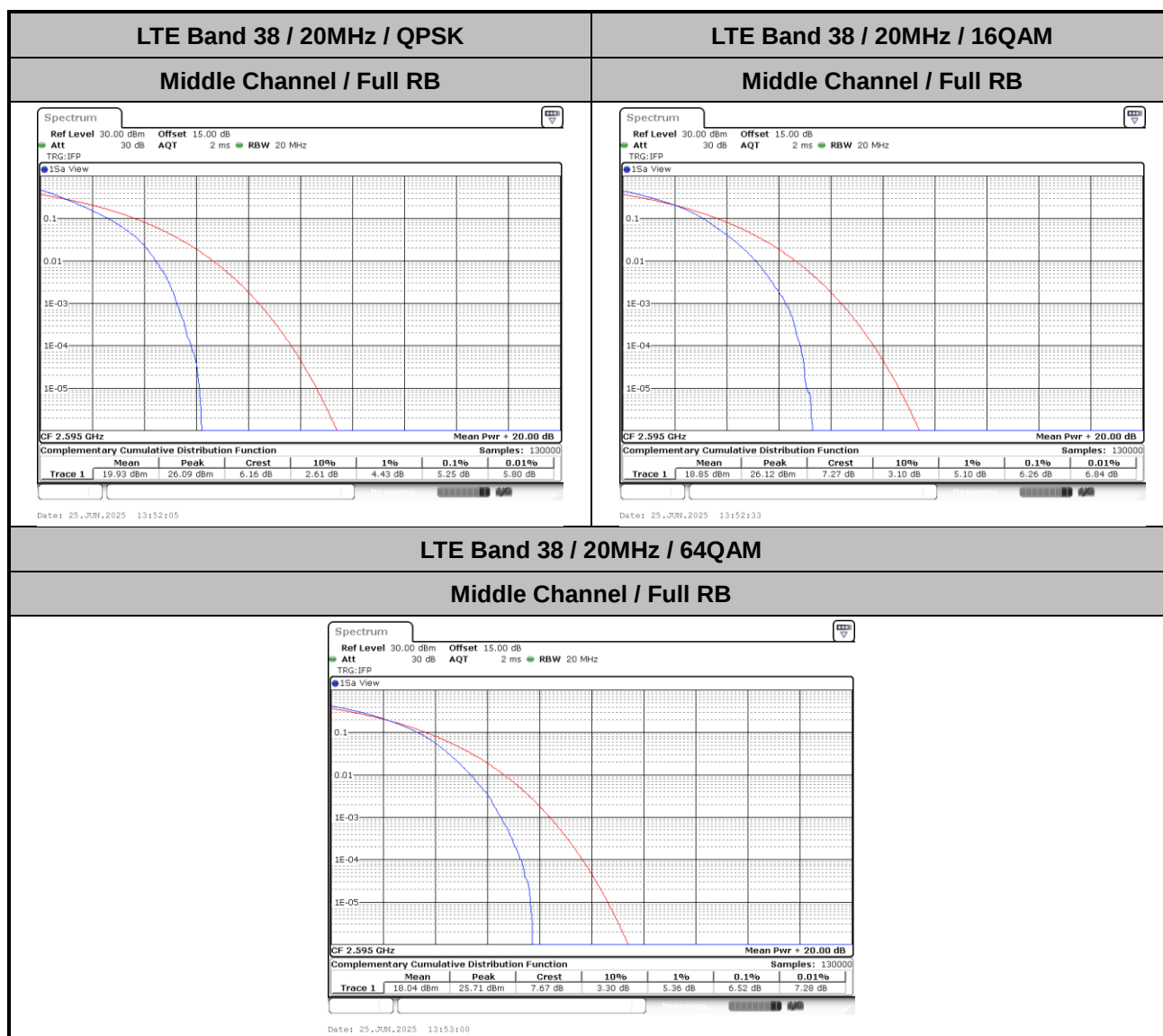
Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - MAX(\Delta f) $	2500.252197	$\geq 2500 \text{ MHz}$	PASS
$f_H + MAX(\Delta f) $	2569.767703	$\leq 2570 \text{ MHz}$	



LTE Band 38

Peak-to-Average Ratio

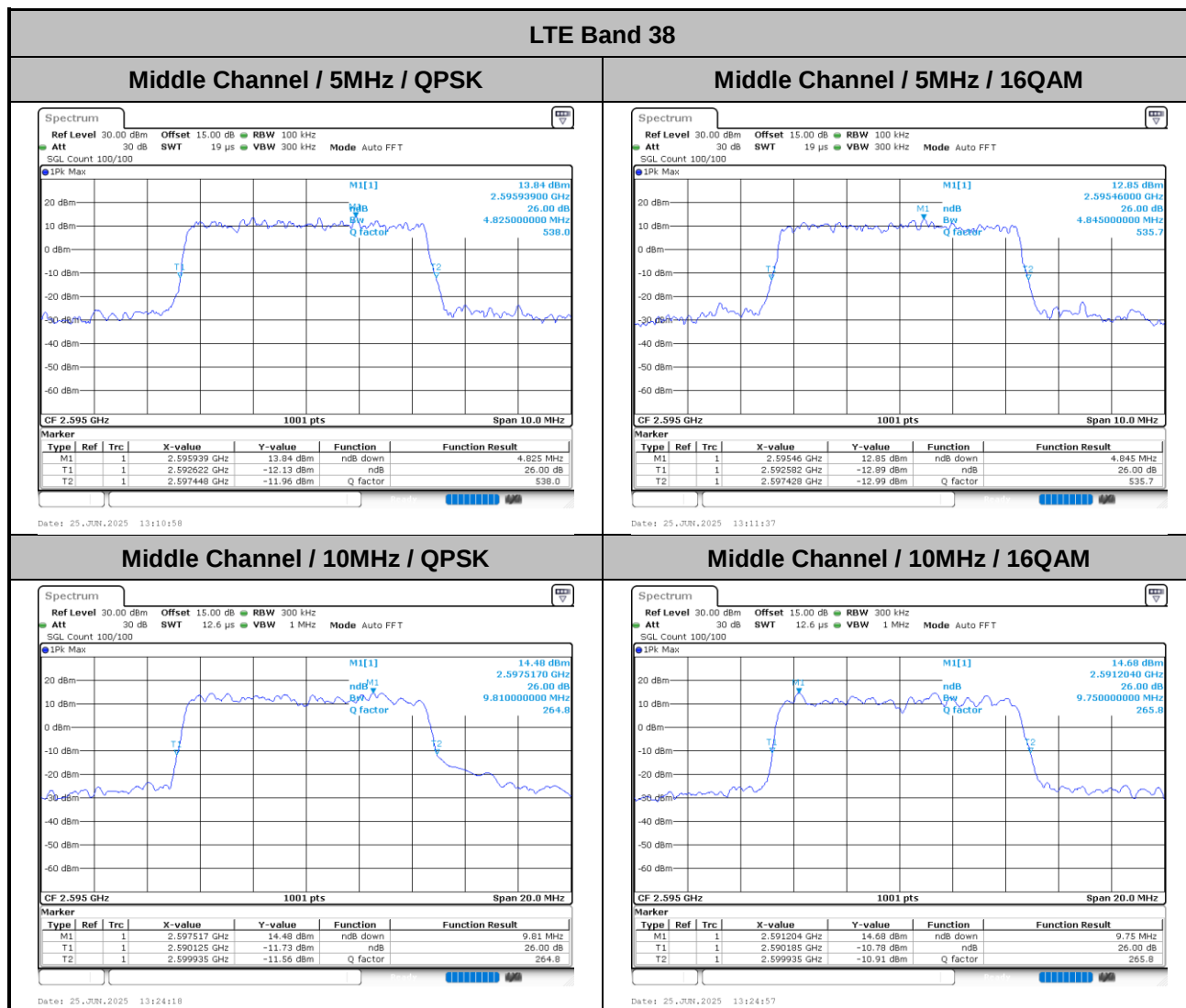
Mode	LTE Band 38 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.26	6.52	PASS





26dB Bandwidth

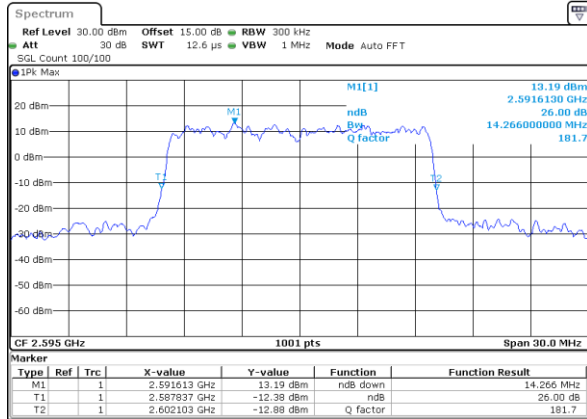
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.83	4.85	9.81	9.75	14.27	14.36	18.90	18.62





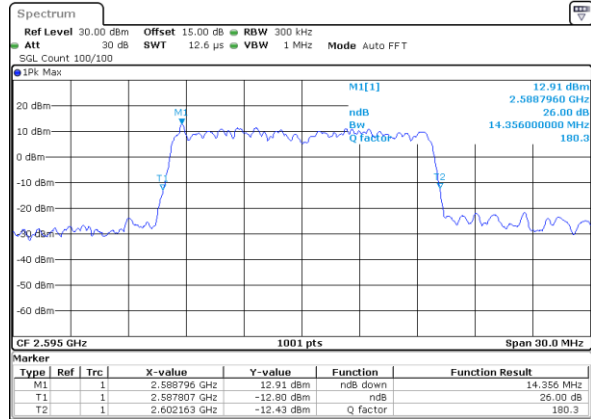
LTE Band 38

Middle Channel / 15MHz / QPSK



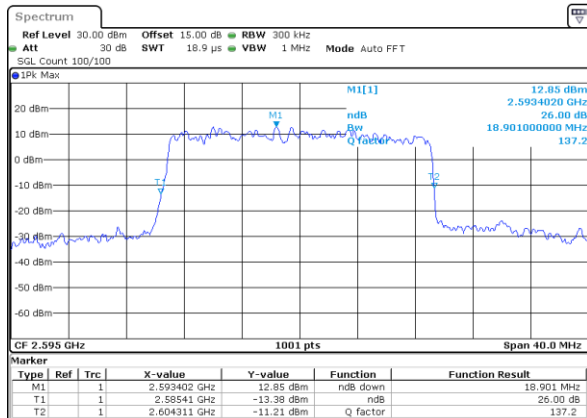
Date: 25 JUN 2025 13:37:19

Middle Channel / 15MHz / 16QAM



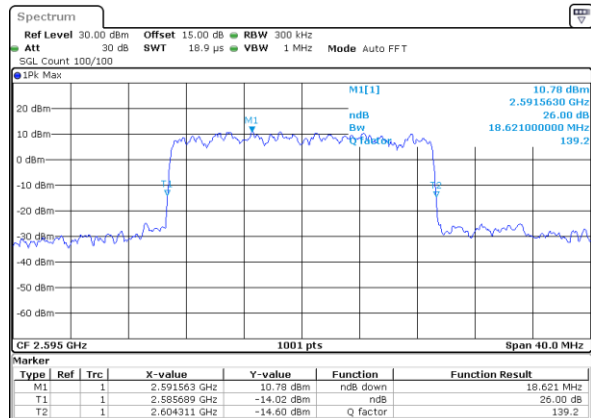
Date: 25 JUN 2025 13:38:18

Middle Channel / 20MHz / QPSK



Date: 25 JUN 2025 13:56:59

Middle Channel / 20MHz / 16QAM

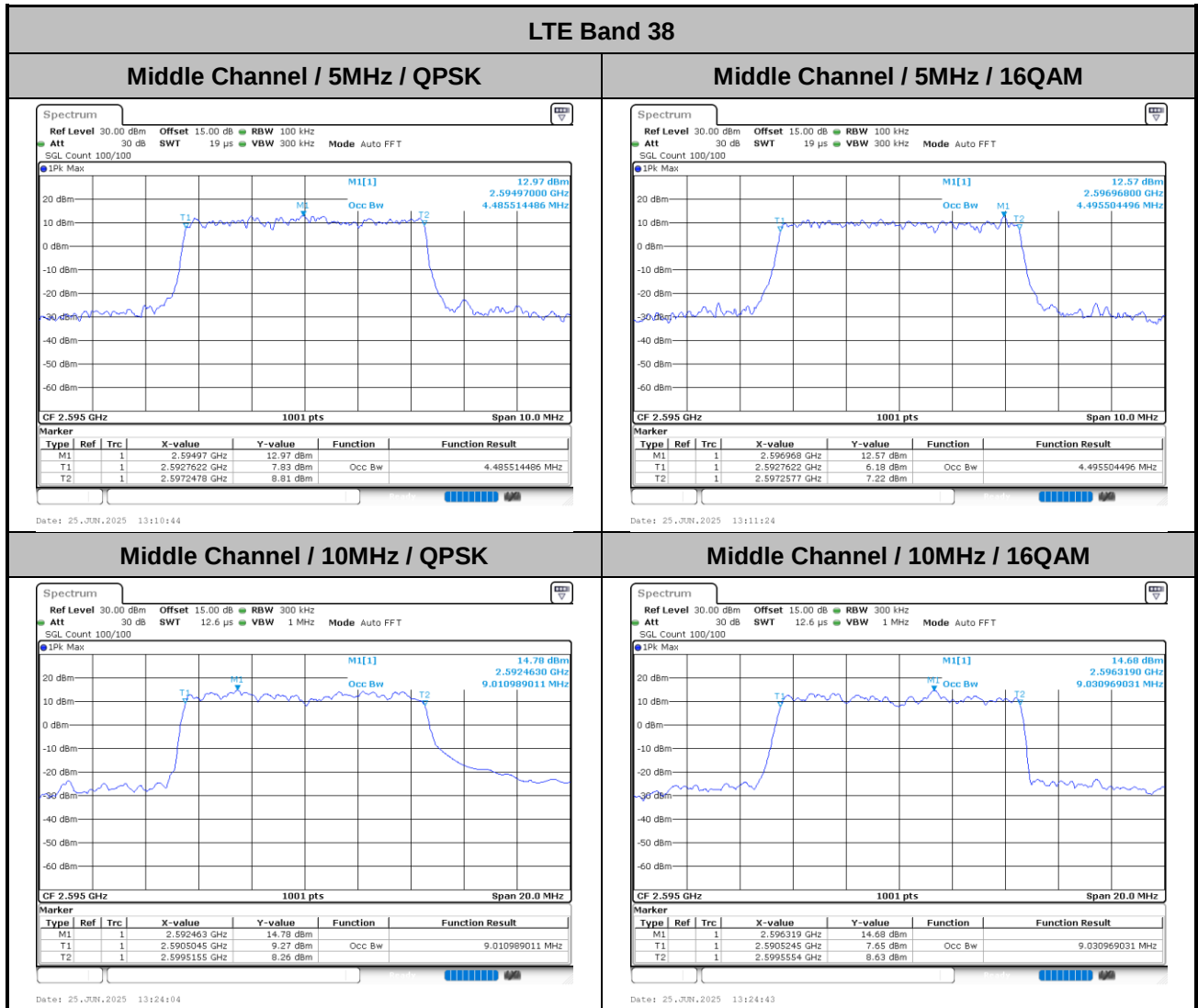


Date: 25 JUN 2025 13:51:39



Occupied Bandwidth

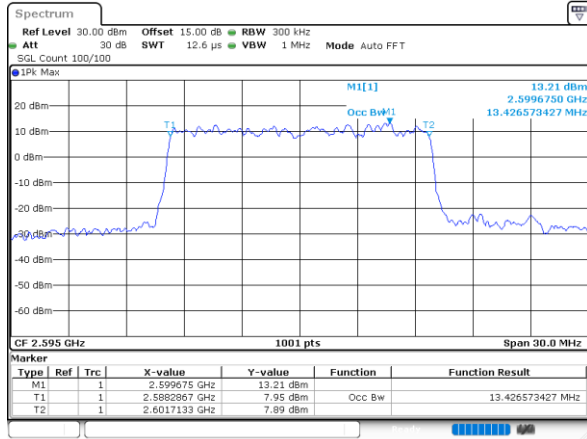
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.50	9.01	9.03	13.43	13.46	17.90	17.90



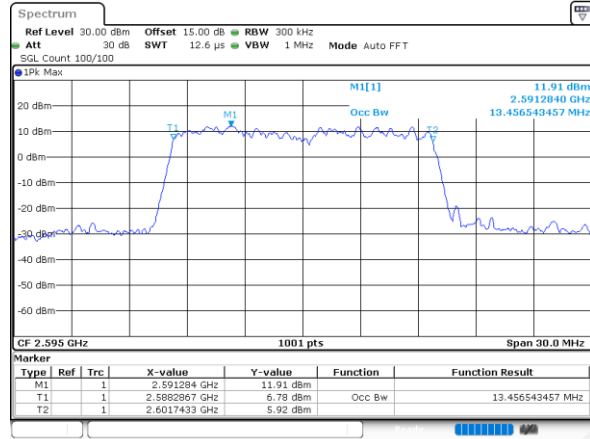


LTE Band 38

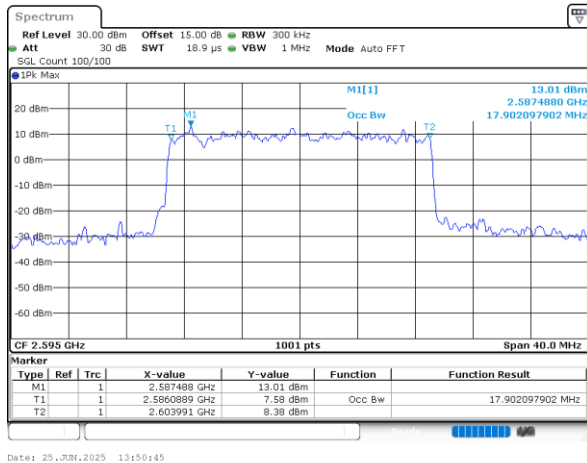
Middle Channel / 15MHz / QPSK



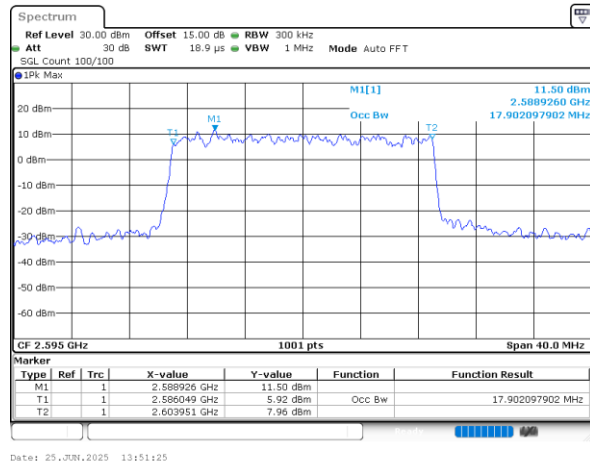
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

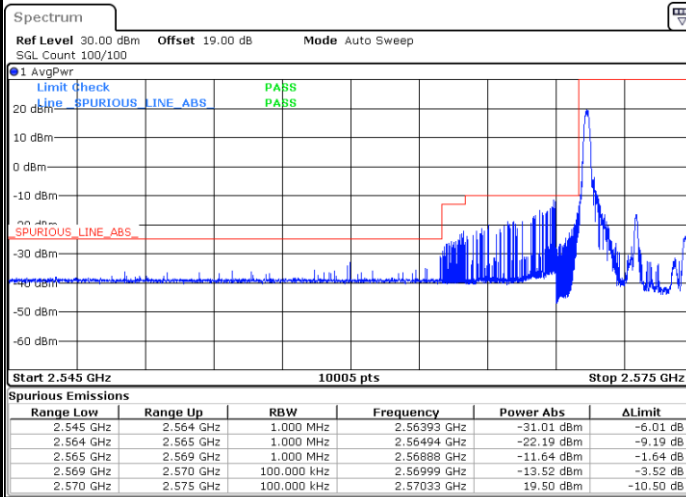




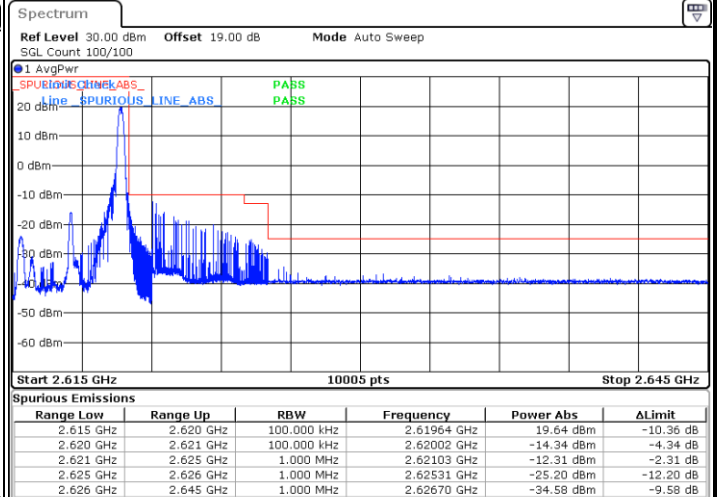
Conducted Band Edge

LTE Band 38 / 5MHz / QPSK

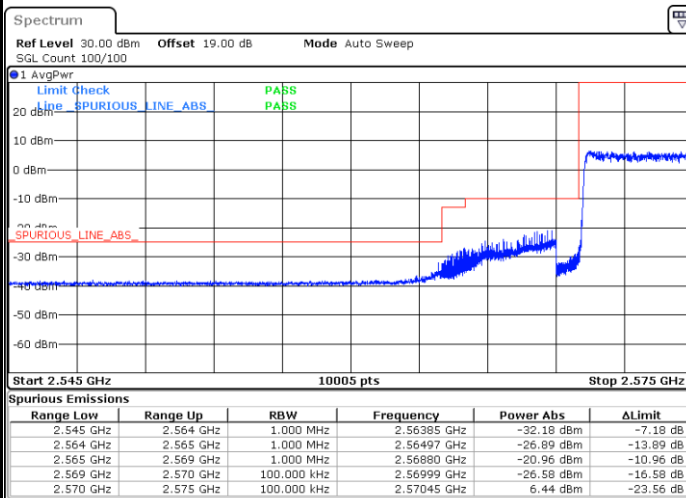
Lowest Band Edge / 1 RB



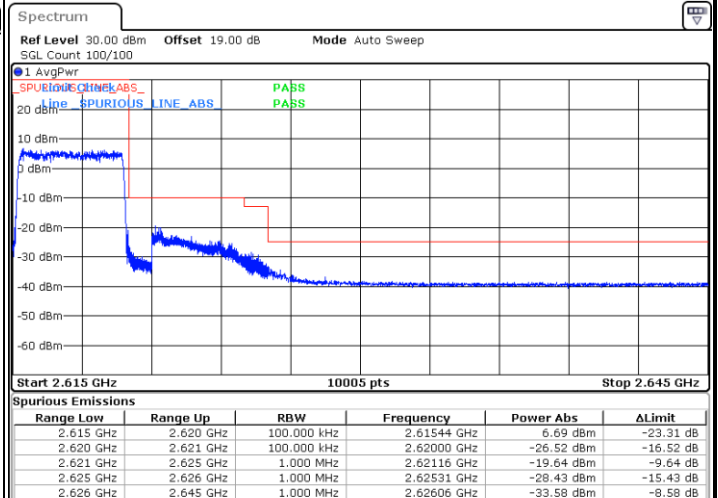
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



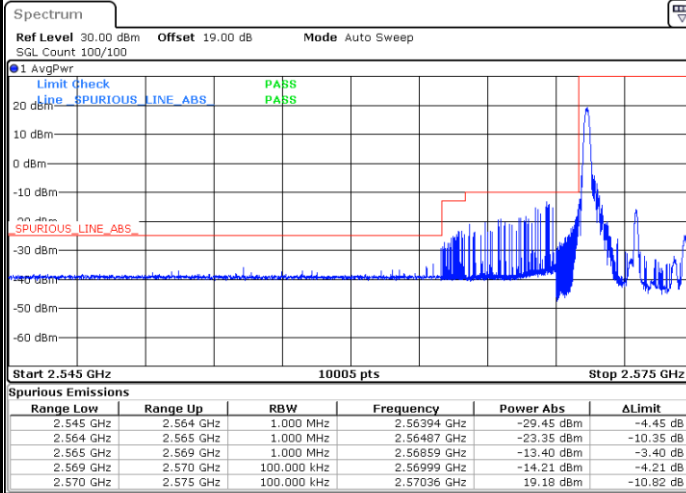
Highest Band Edge / Full RB



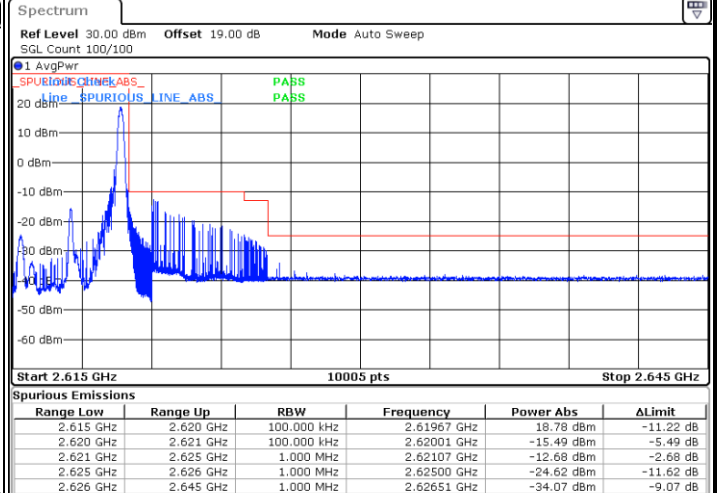


LTE Band 38 / 5MHz / 16QAM

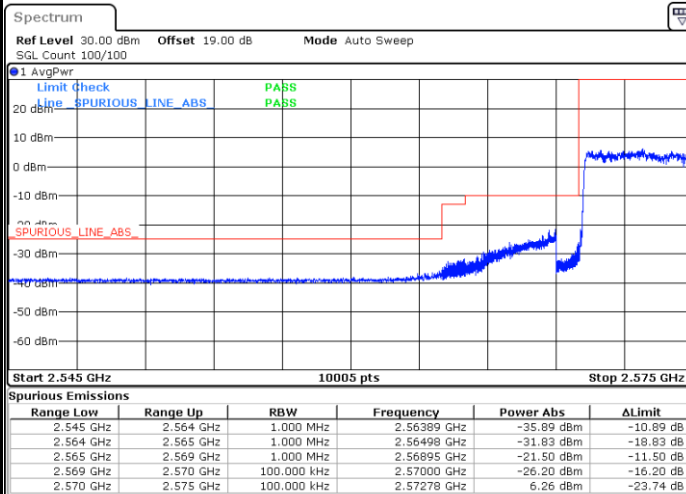
Lowest Band Edge / 1RB



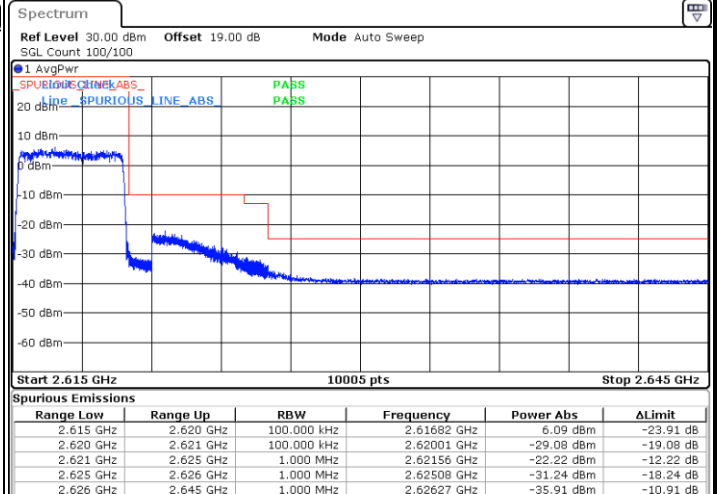
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



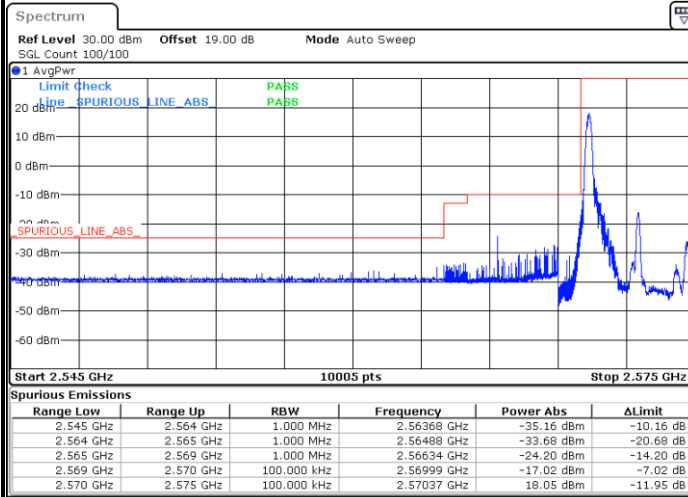
Highest Band Edge / Full RB



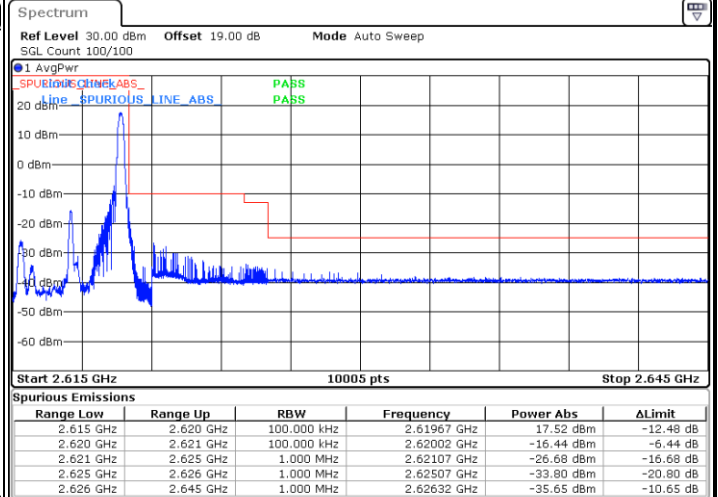


LTE Band 38 / 5MHz / 64QAM

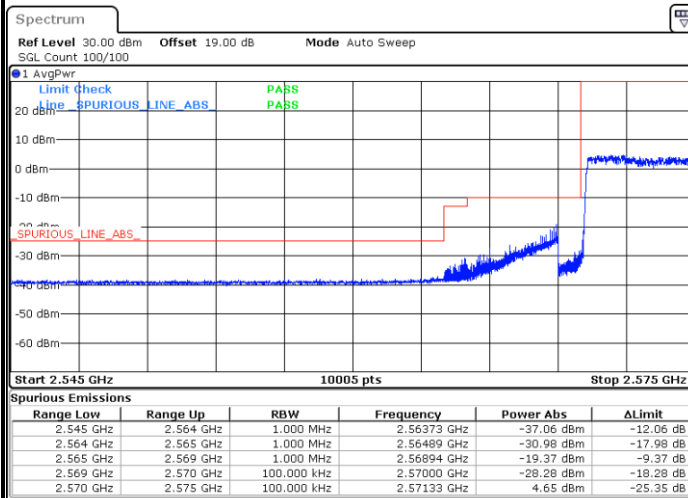
Lowest Band Edge / 1RB



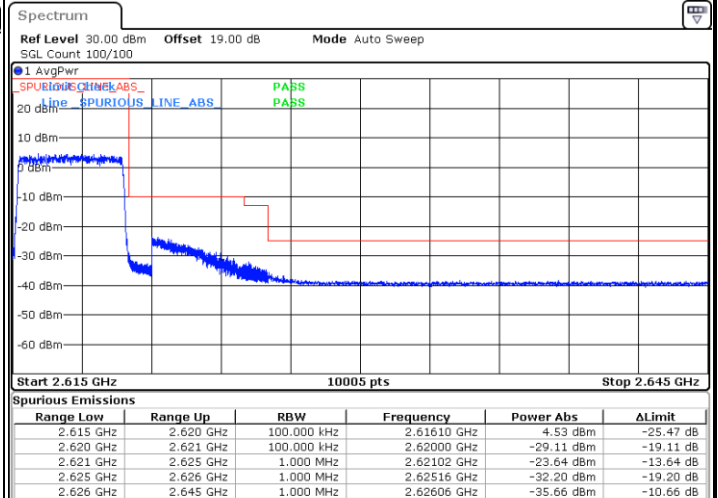
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



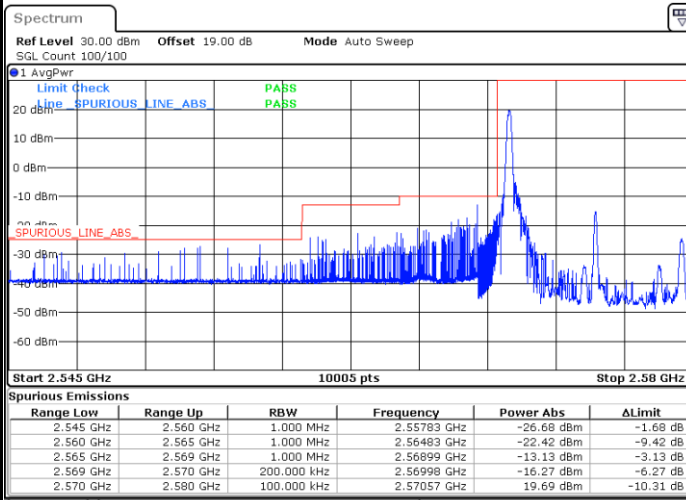
Highest Band Edge / Full RB



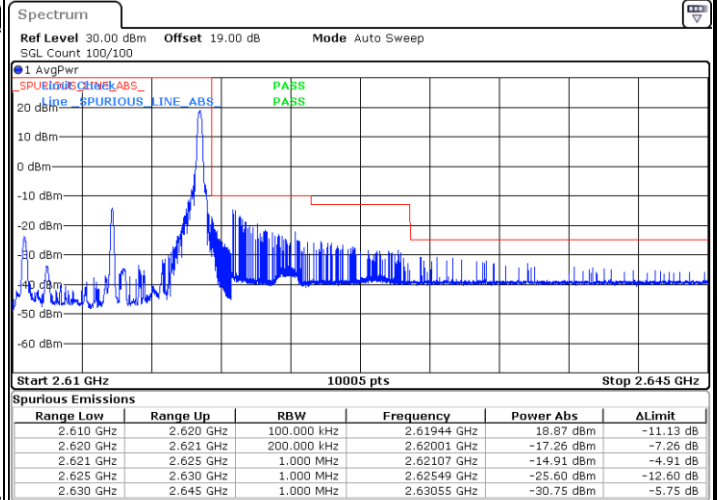


LTE Band 38 / 10MHz / QPSK

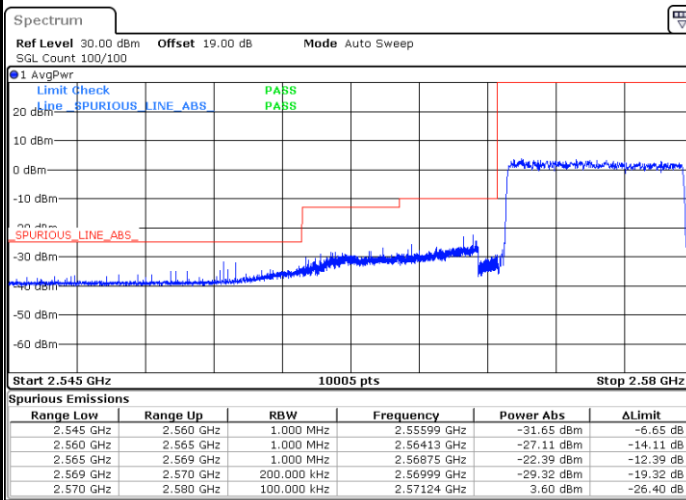
Lowest Band Edge / 1 RB



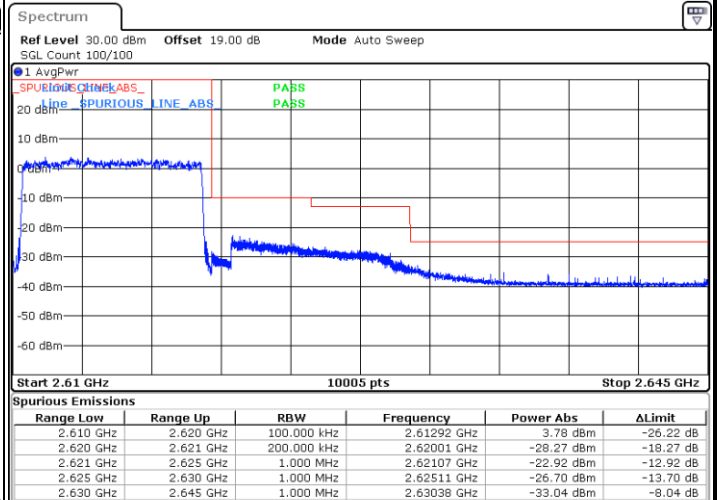
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



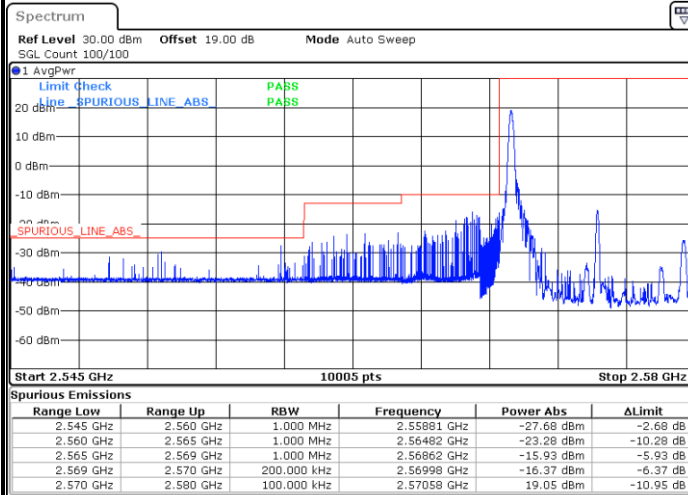
Highest Band Edge / Full RB



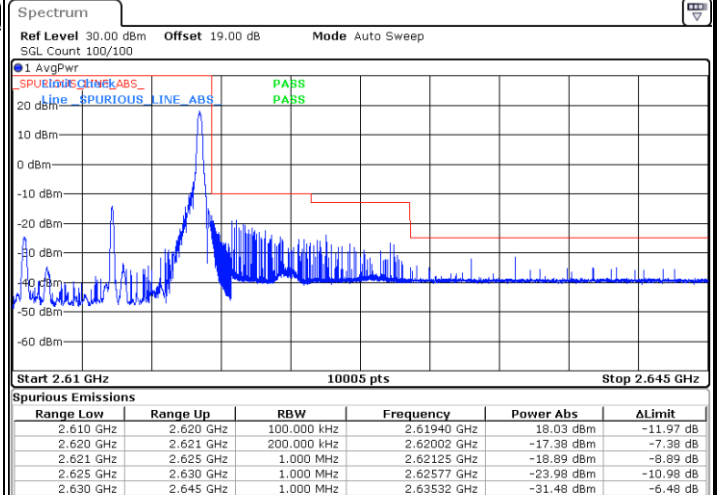


LTE Band 38 / 10MHz / 16QAM

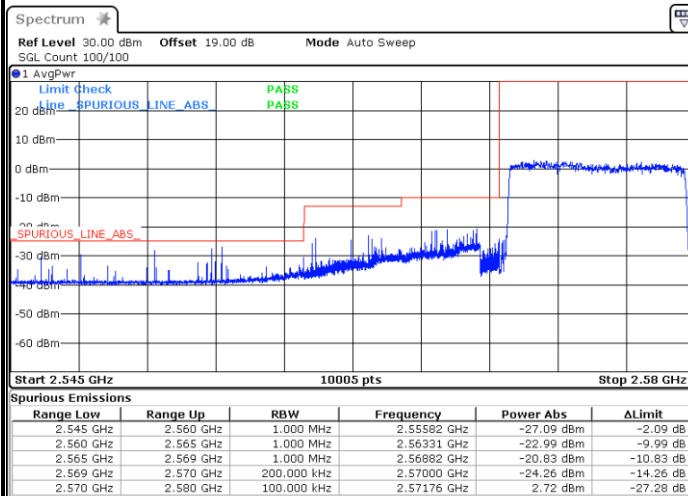
Lowest Band Edge / 1RB



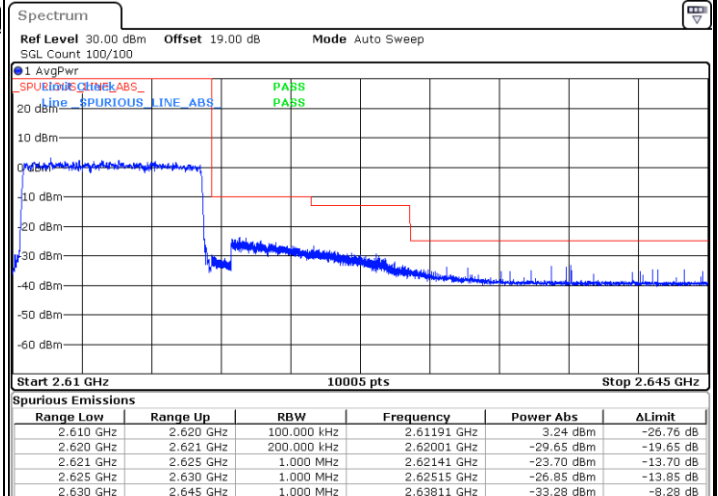
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



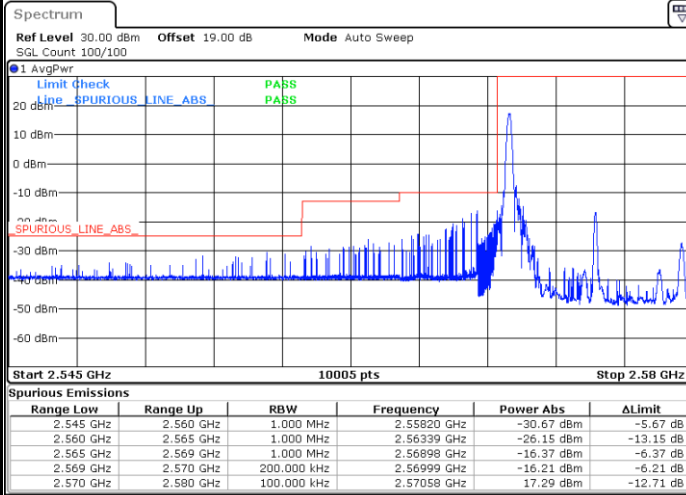
Highest Band Edge / Full RB



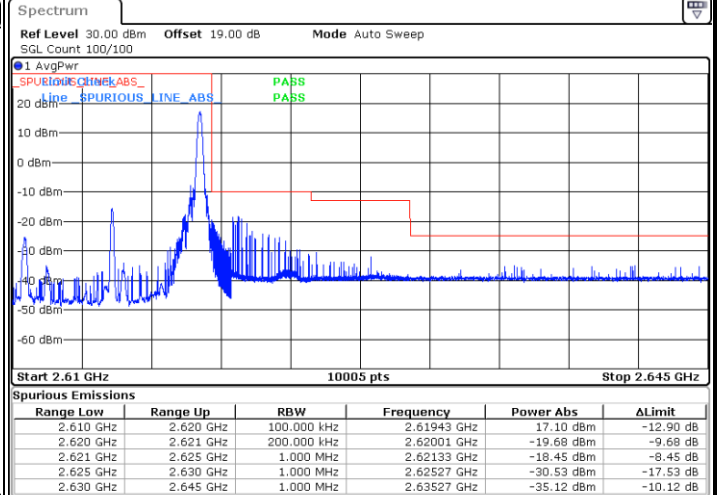


LTE Band 38 / 10MHz / 64QAM

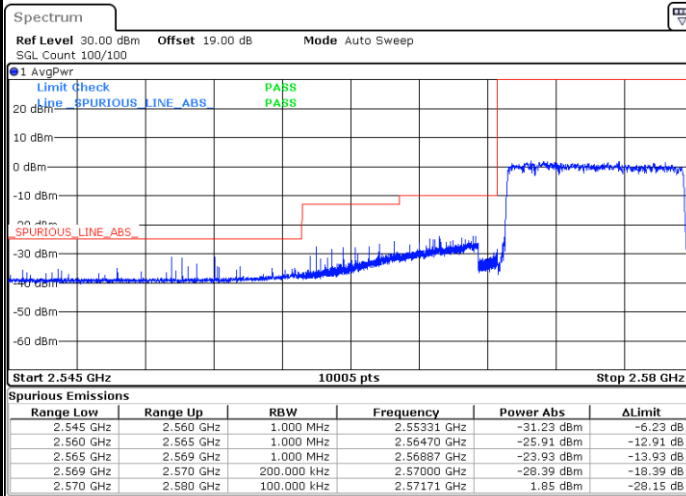
Lowest Band Edge / 1RB



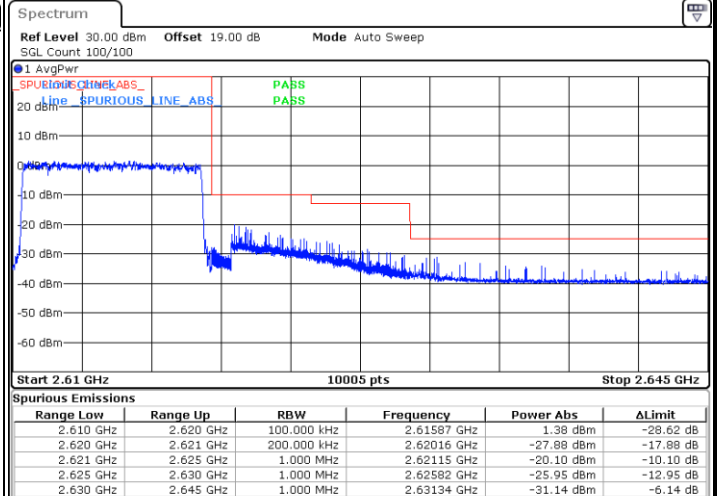
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



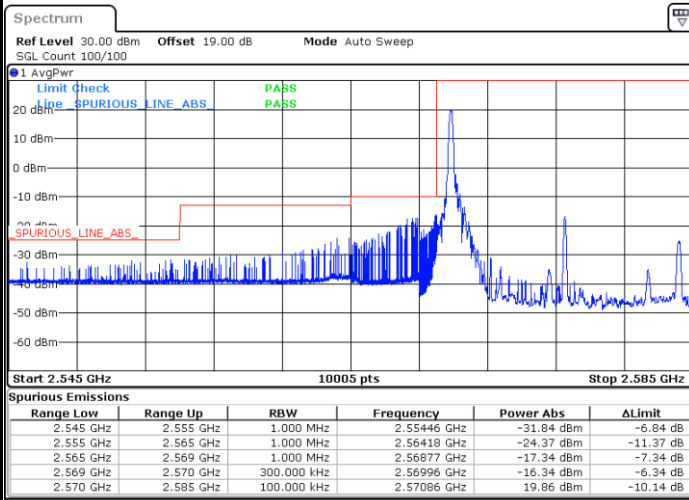
Highest Band Edge / Full RB



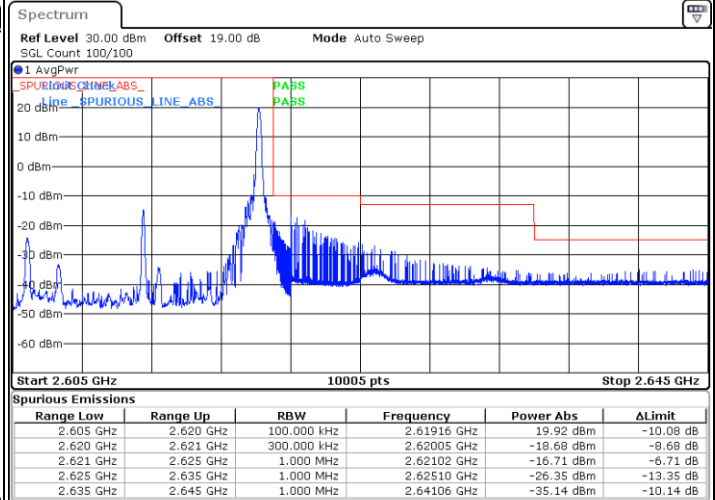


LTE Band 38 / 15MHz / QPSK

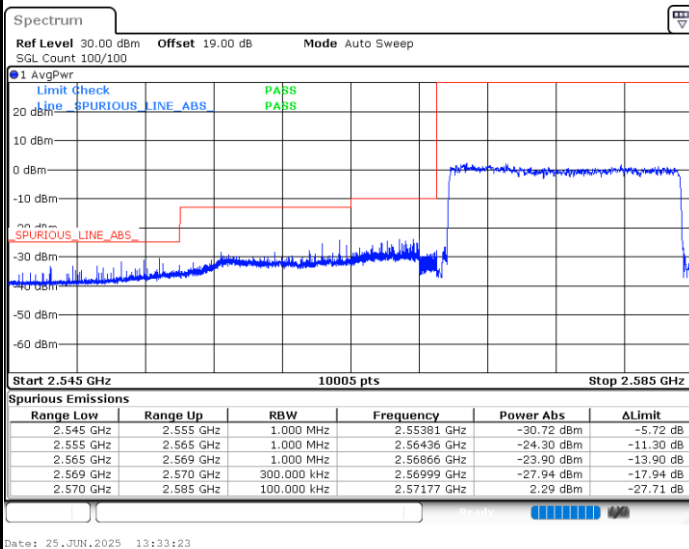
Lowest Band Edge / 1 RB



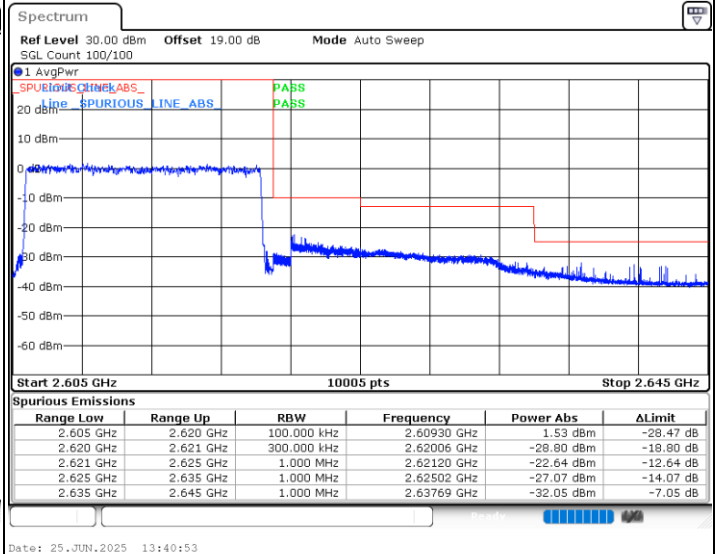
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



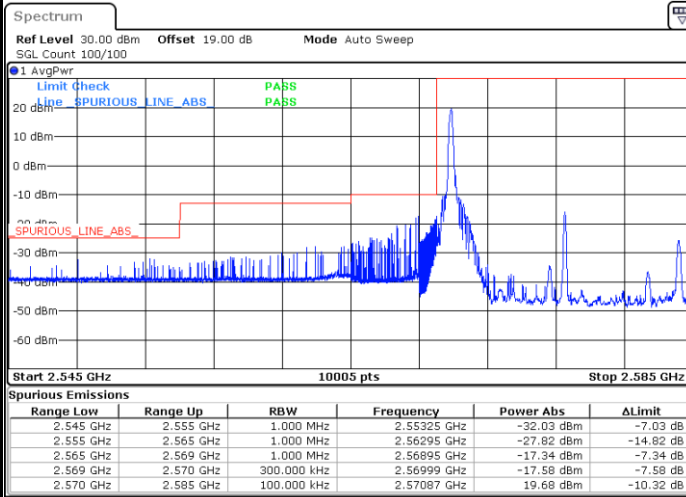
Highest Band Edge / Full RB



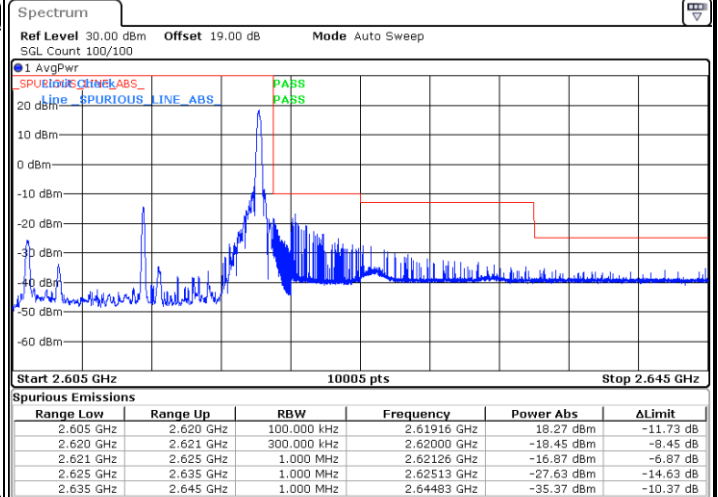


LTE Band 38 / 15MHz / 16QAM

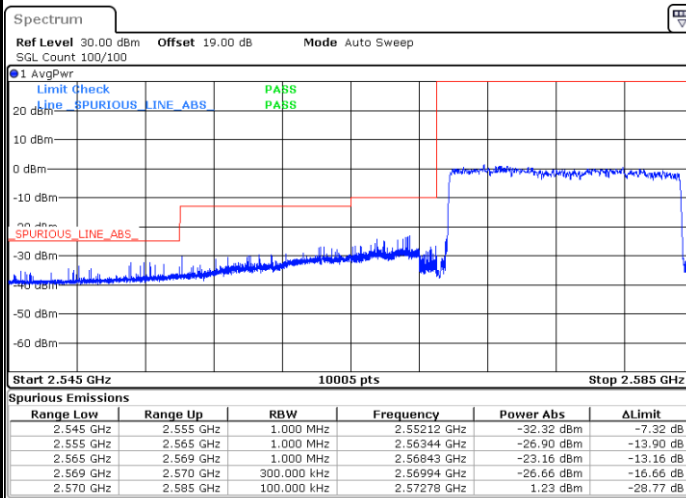
Lowest Band Edge / 1RB



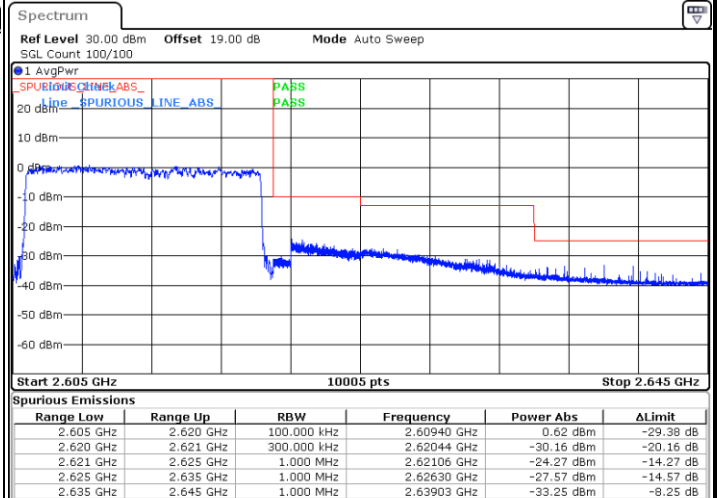
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



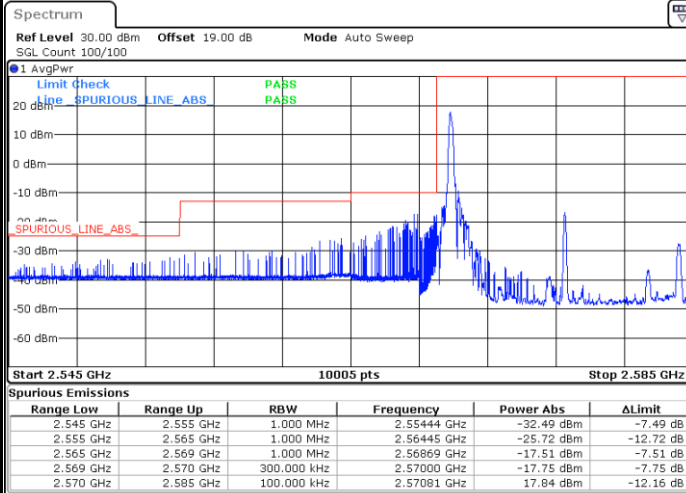
Highest Band Edge / Full RB



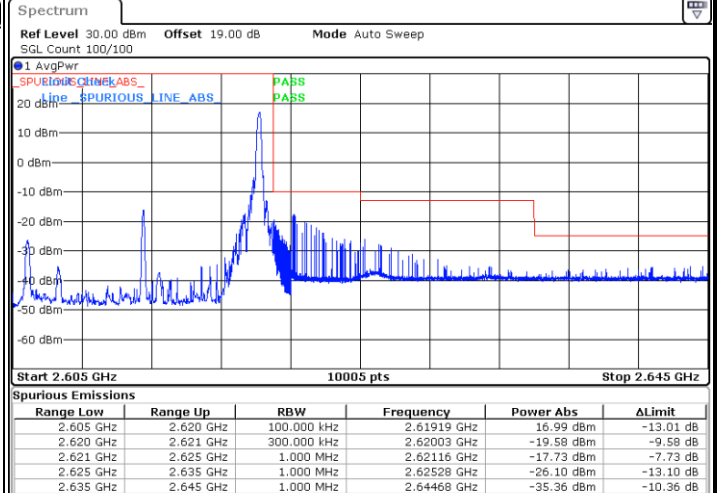


LTE Band 38 / 15MHz / 64QAM

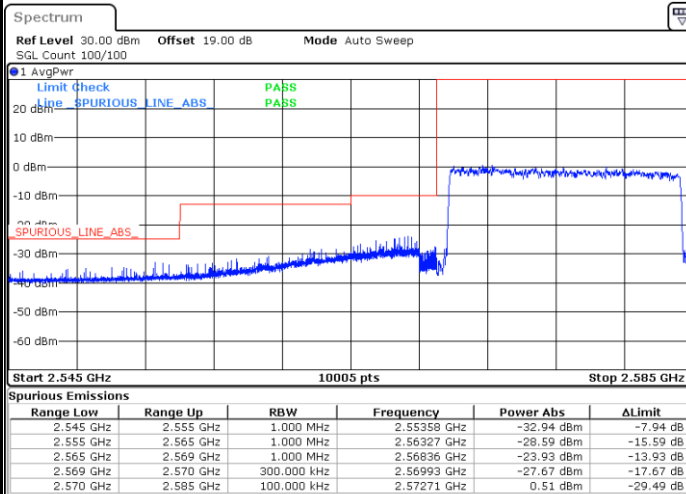
Lowest Band Edge / 1RB



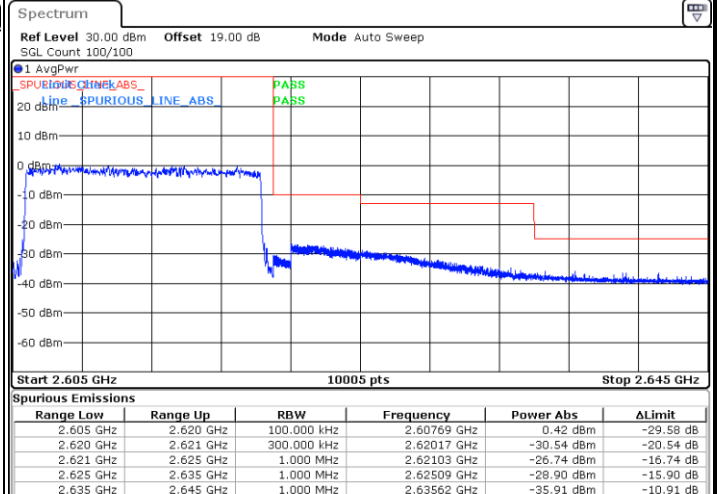
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



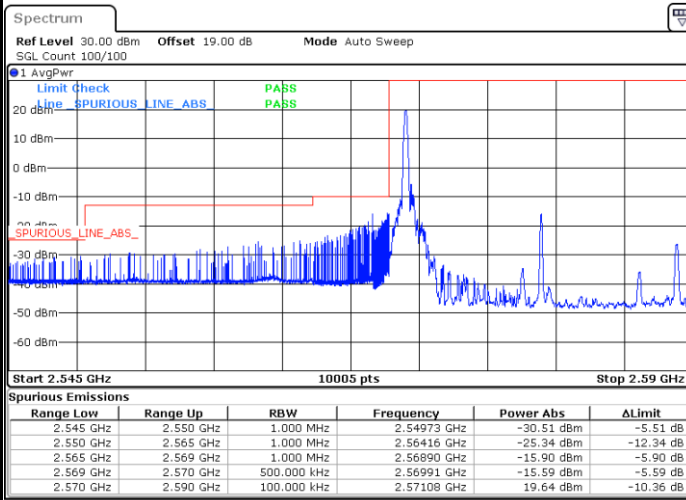
Highest Band Edge / Full RB





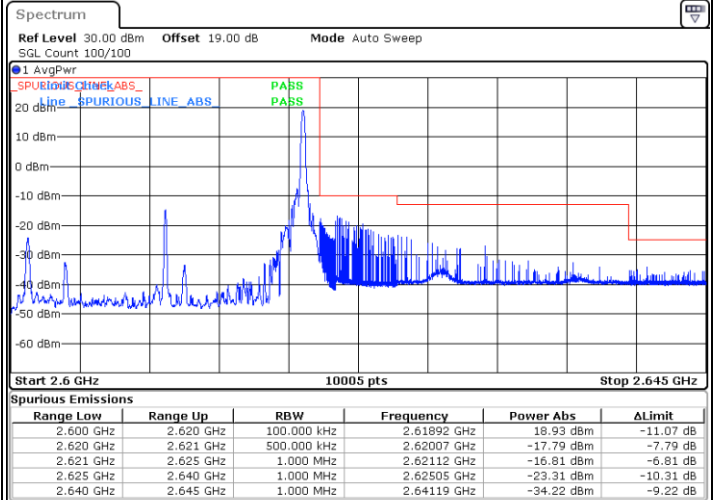
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / 1 RB



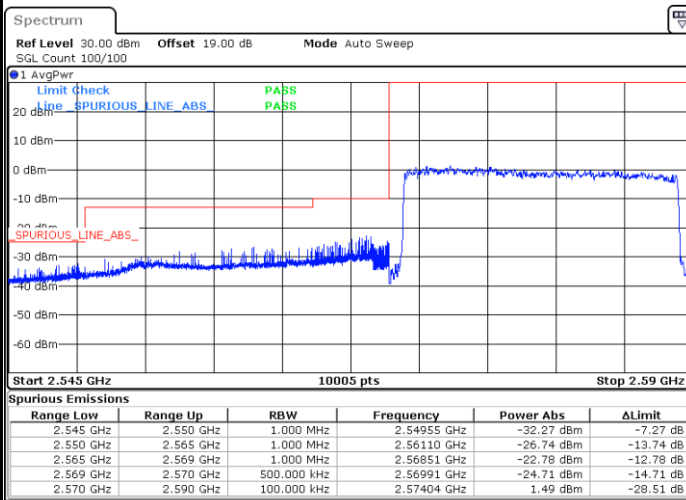
Date: 25.JUN.2025 13:44:45

Highest Band Edge / 1 RB



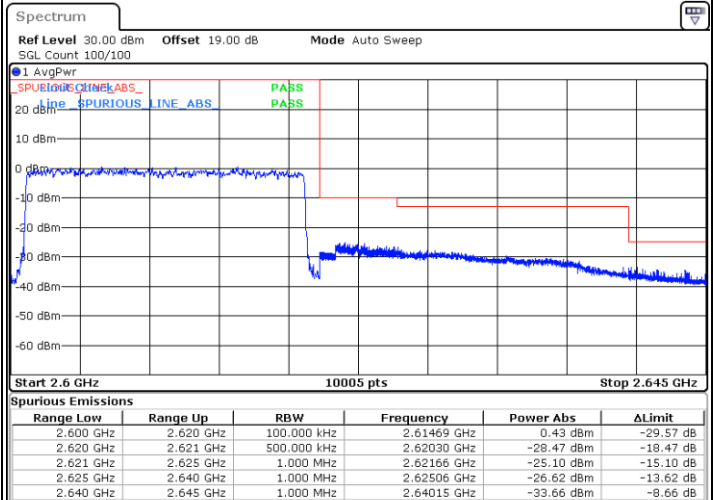
Date: 25.JUN.2025 13:53:37

Lowest Band Edge / Full RB



Date: 25.JUN.2025 13:46:44

Highest Band Edge / Full RB

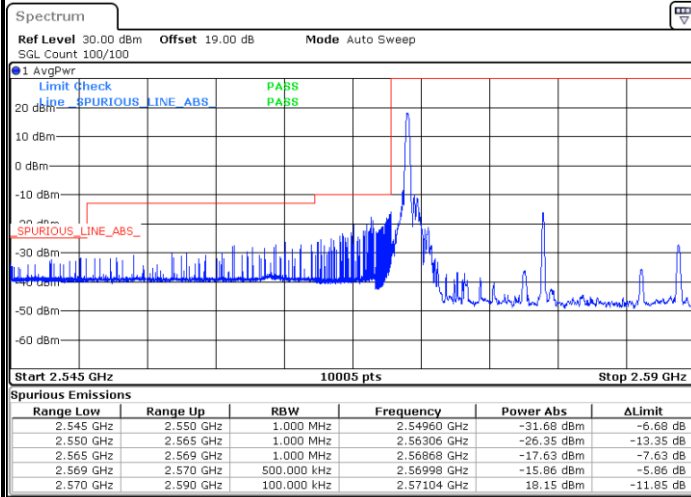


Date: 25.JUN.2025 13:55:35



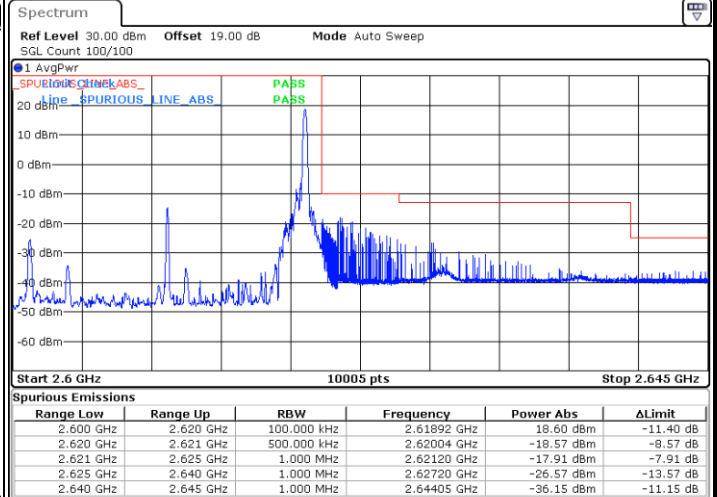
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1RB



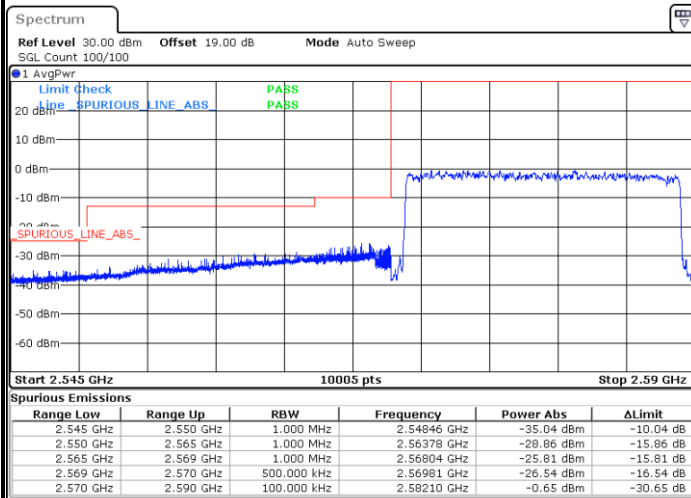
Date: 25.JUN.2025 13:45:22

Highest Band Edge / 1 RB



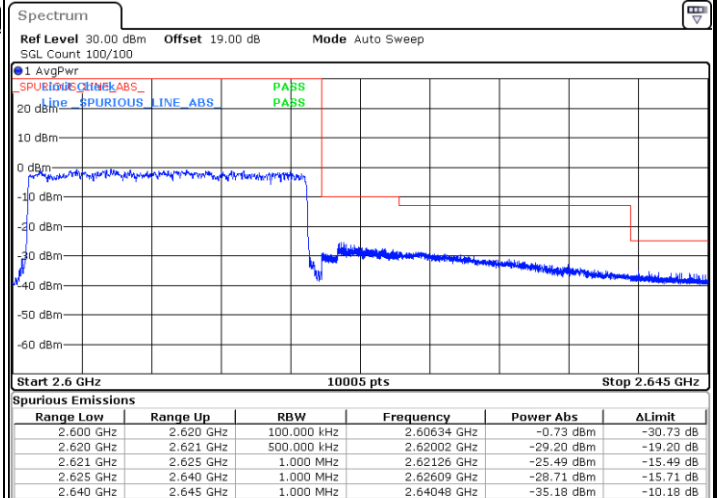
Date: 25.JUN.2025 13:54:14

Lowest Band Edge / Full RB



Date: 25.JUN.2025 13:47:24

Highest Band Edge / Full RB

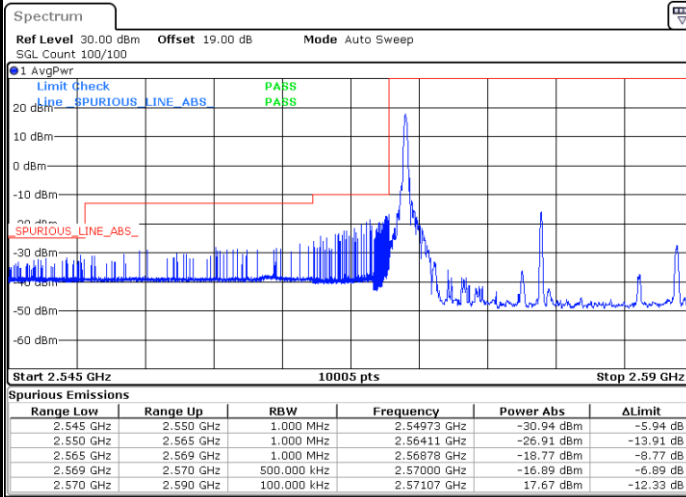


Date: 25.JUN.2025 13:56:16

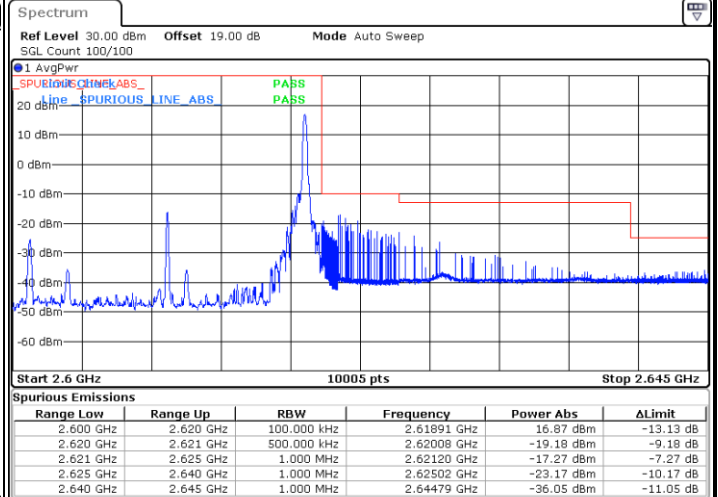


LTE Band 38 / 20MHz / 64QAM

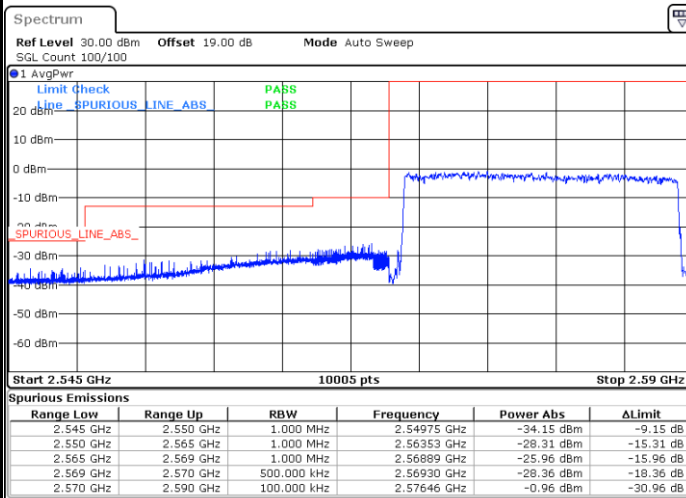
Lowest Band Edge / 1RB



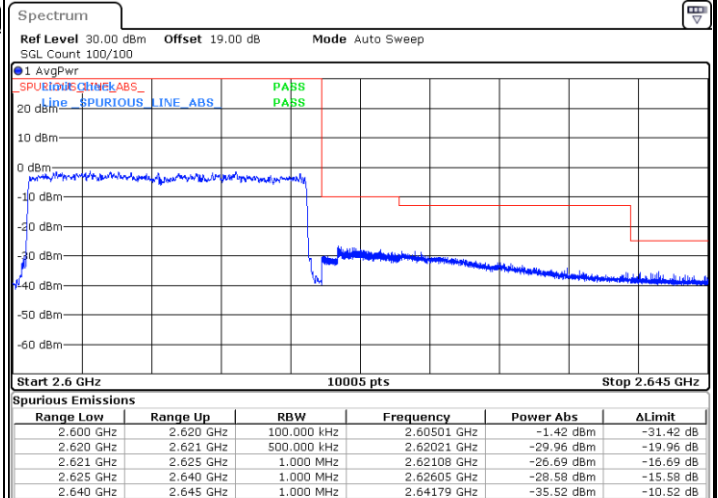
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

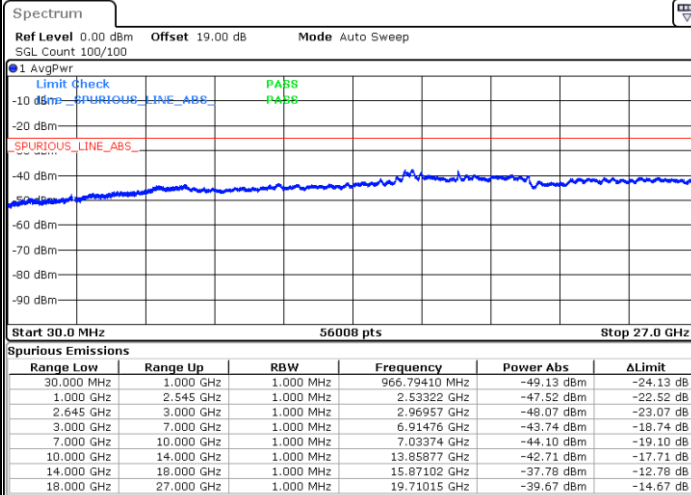




Conducted Spurious Emission

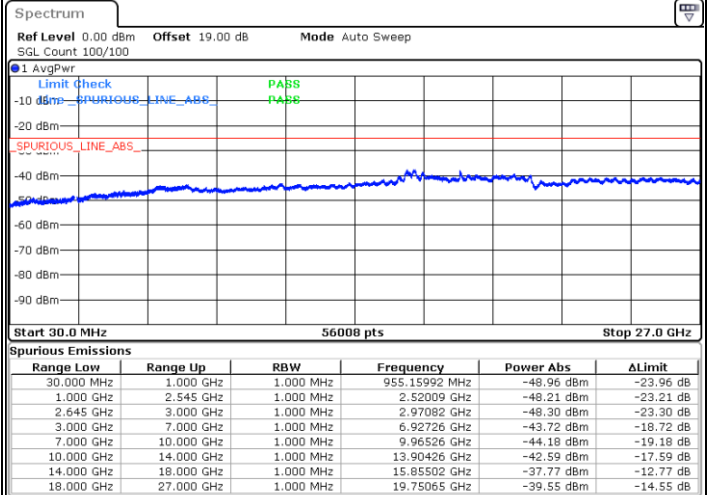
LTE Band 38 / 5MHz

Lowest Channel / QPSK



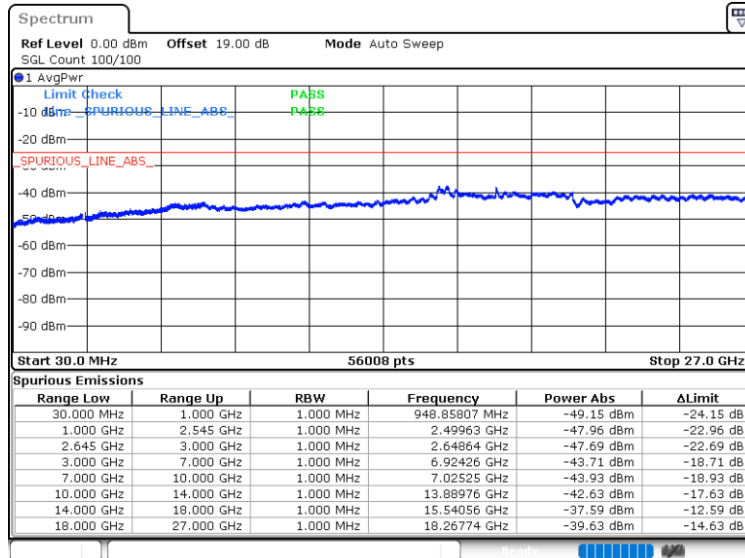
Date: 25.JUN.2025 13:09:13

Middle Channel / QPSK



Date: 25.JUN.2025 13:10:18

Highest Channel / QPSK

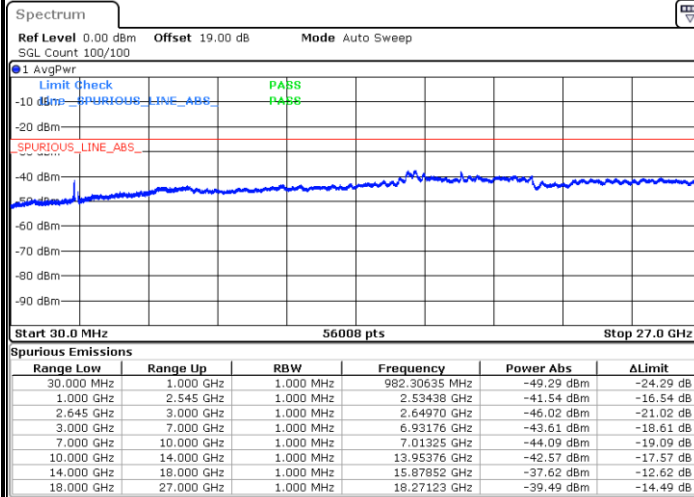


Date: 25.JUN.2025 13:16:43



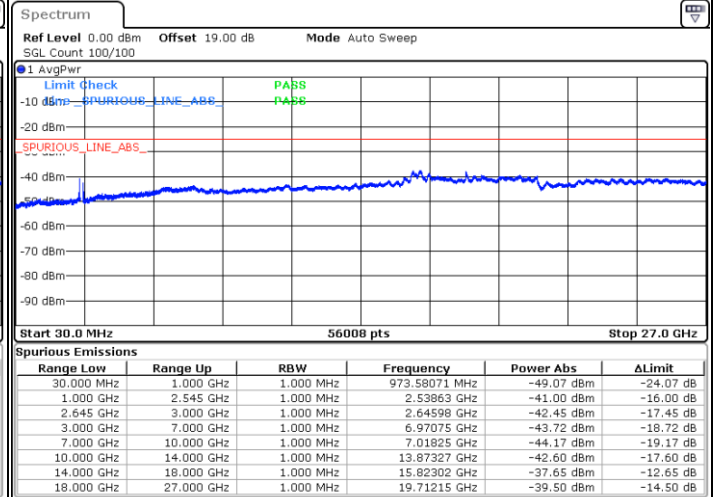
LTE Band 38 / 10MHz

Lowest Channel / QPSK



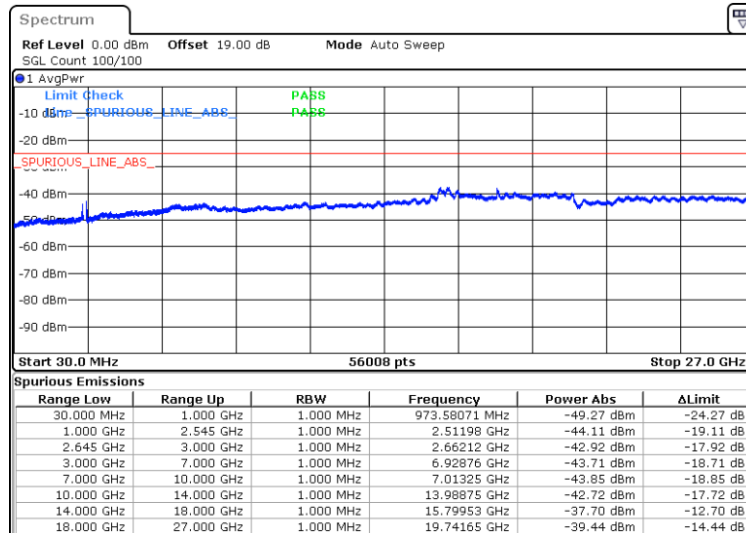
Date: 25 JUN 2025 13:22:32

Middle Channel / QPSK



Date: 25 JUN 2025 13:23:38

Highest Channel / QPSK

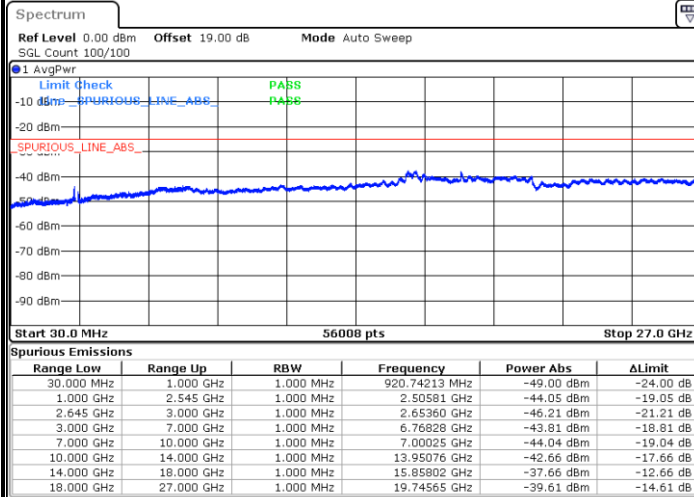


Date: 25 JUN 2025 13:30:04



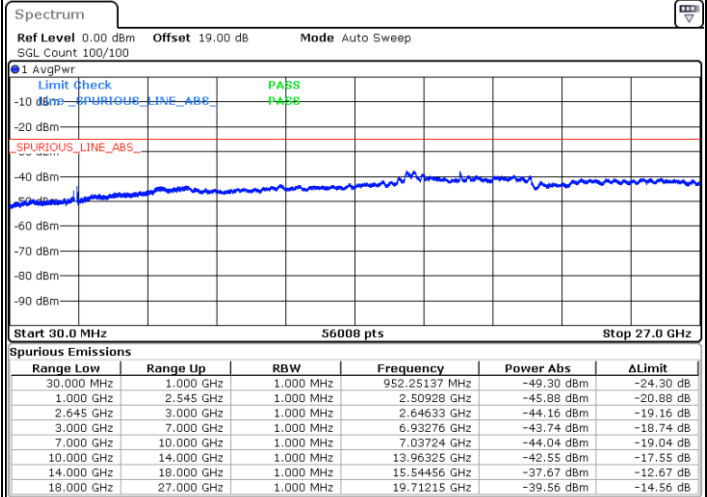
LTE Band 38 / 15MHz

Lowest Channel / QPSK



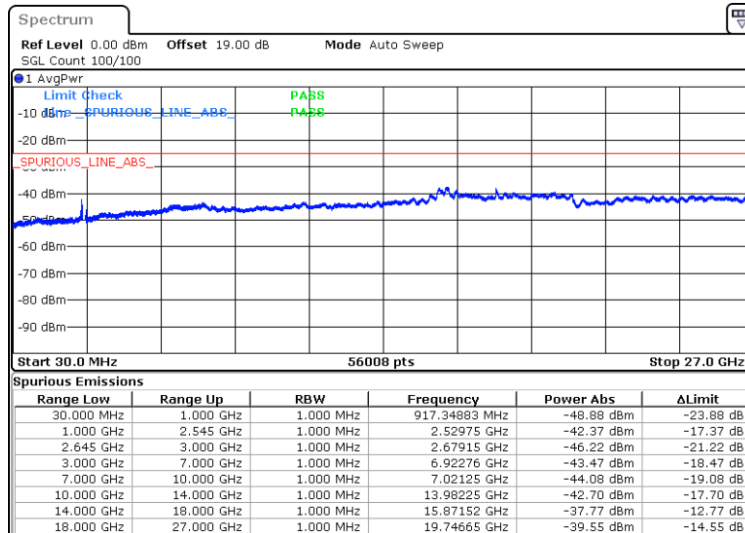
Date: 25 JUN 2025 13:35:53

Middle Channel / QPSK



Date: 25 JUN 2025 13:36:58

Highest Channel / QPSK

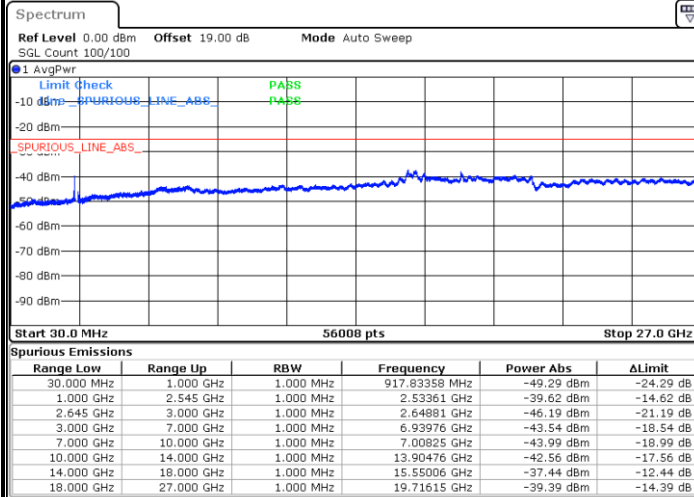


Date: 25 JUN 2025 13:43:24



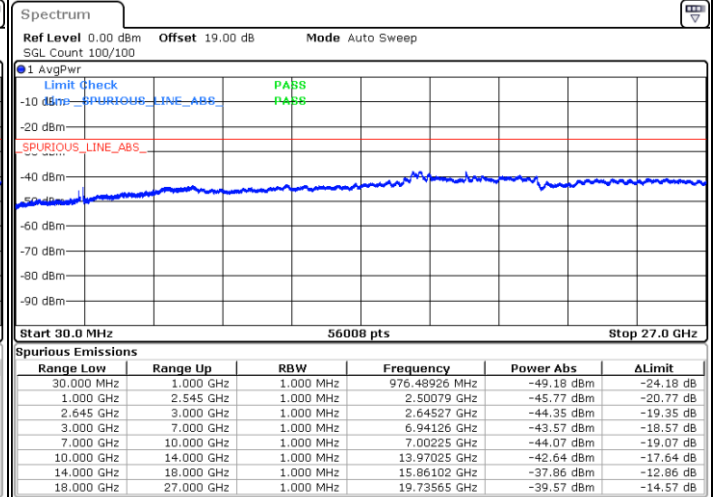
LTE Band 38 / 20MHz

Lowest Channel / QPSK



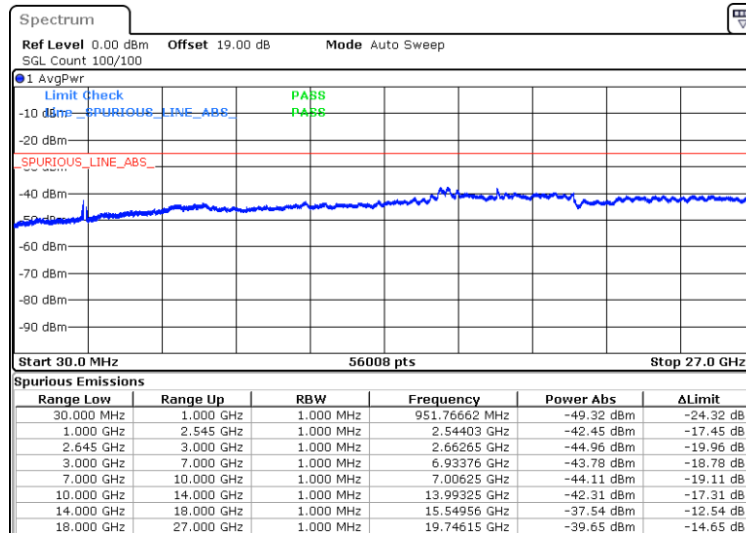
Date: 25.JUN.2025 13:49:14

Middle Channel / QPSK



Date: 25.JUN.2025 13:50:19

Highest Channel / QPSK



Date: 25.JUN.2025 14:03:22

Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	2.4	PASS
40	Normal Voltage	3.6	
30	Normal Voltage	2.1	
20(Ref.)	Normal Voltage	3.3	
10	Normal Voltage	2.1	
0	Normal Voltage	3.9	
-10	Normal Voltage	2.3	
-20	Normal Voltage	2.5	
-30	Normal Voltage	4.1	
20	Maximum Voltage	3.8	
20	Normal Voltage	3.3	
20	Battery End Point	3.7	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

$$|\text{MAX}(\Delta f)| = 4.1\text{Hz}$$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2570.252196	$\geq 2570 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2619.747804	$\leq 2620 \text{ MHz}$	

LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.70	5.71	6.17	PASS

