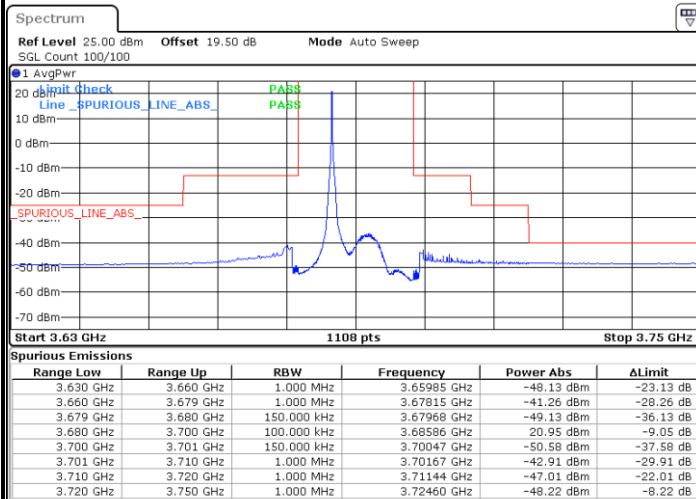




LTE Band 48 / 15MHz

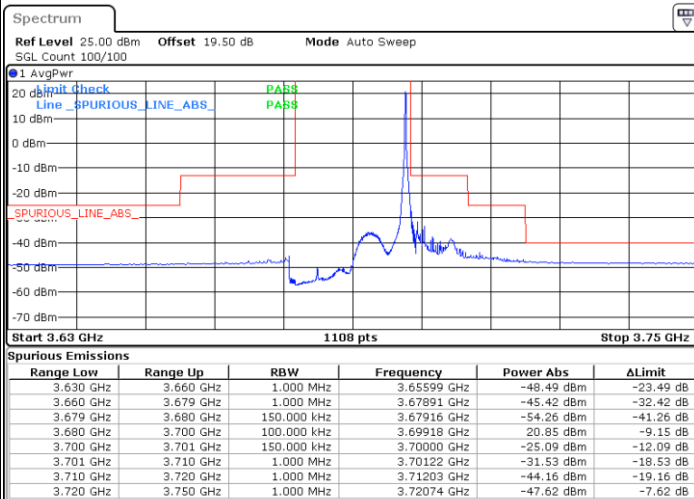
QPSK

Highest Channel / 1RB0



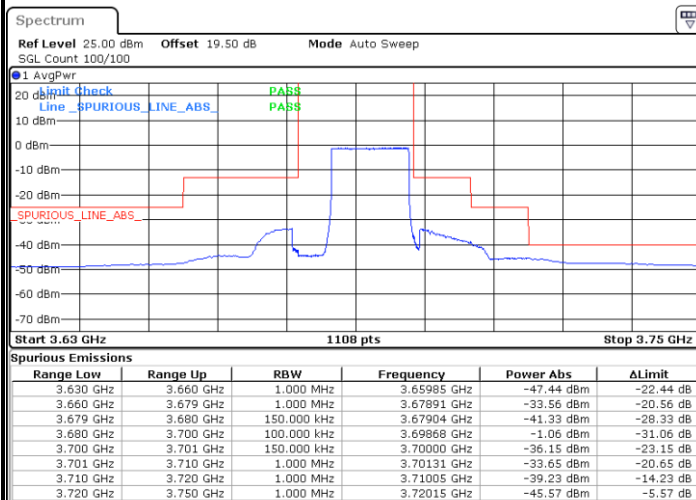
Date: 19 SEP 2025 12:14:02

Highest Channel / 1RBmax



Date: 19 SEP 2025 12:18:38

Highest Channel / FullRB



Date: 11.OCT.2025 13:13:56

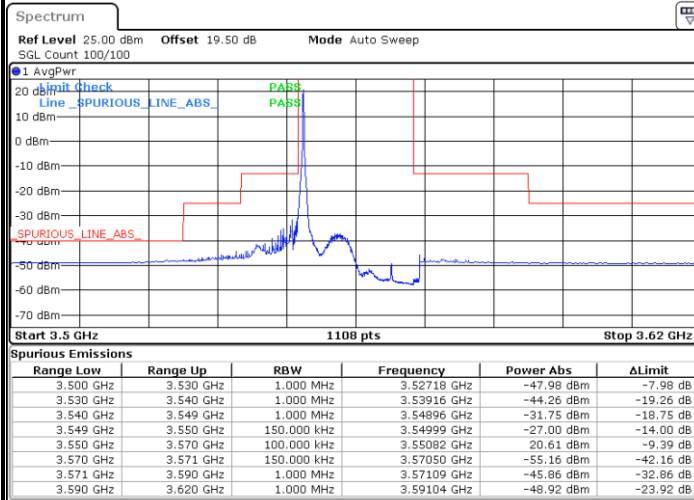
N/A



LTE Band 48 / 15MHz

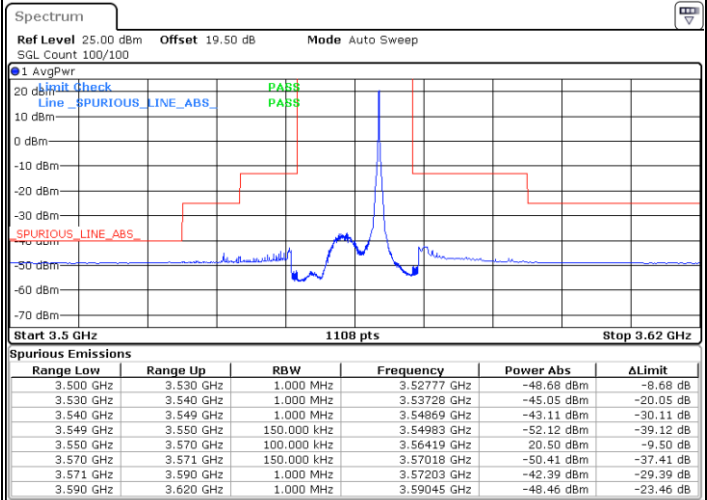
16QAM

Lowest Channel / 1RB0



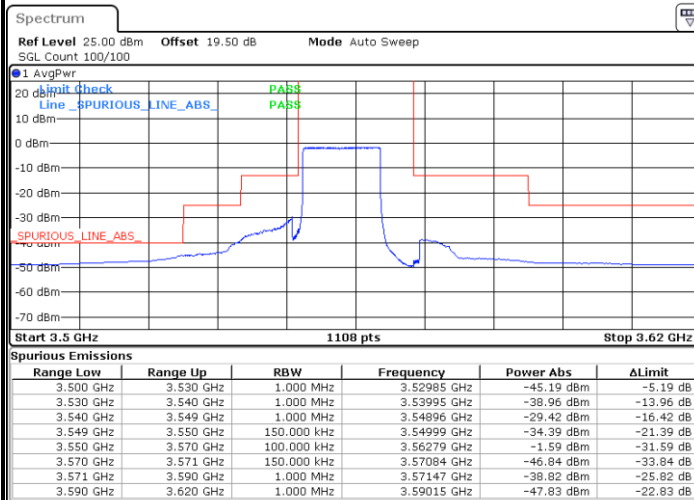
Date: 19 SEP 2025 11:28:37

Lowest Channel / 1RBmax



Date: 19 SEP 2025 11:32:14

Lowest Channel / FullIRB



Date: 11 OCT 2025 13:09:05

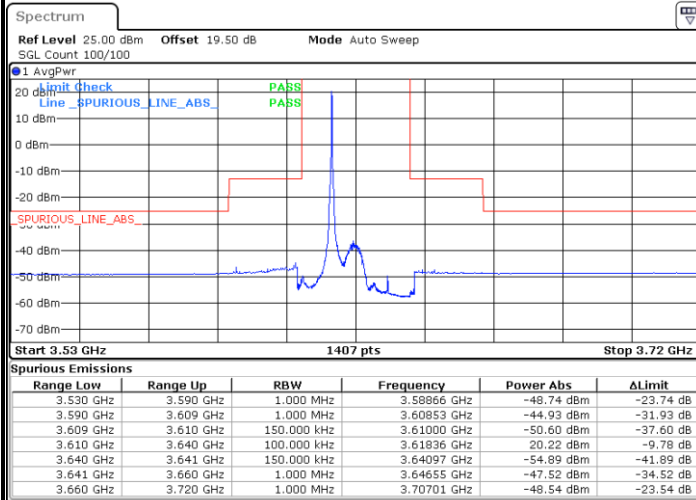
N/A



LTE Band 48 / 15MHz

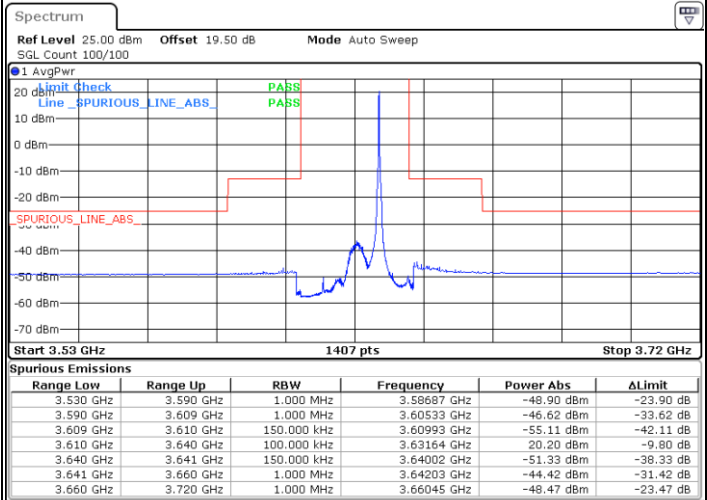
16QAM

Middle Channel / 1RB0



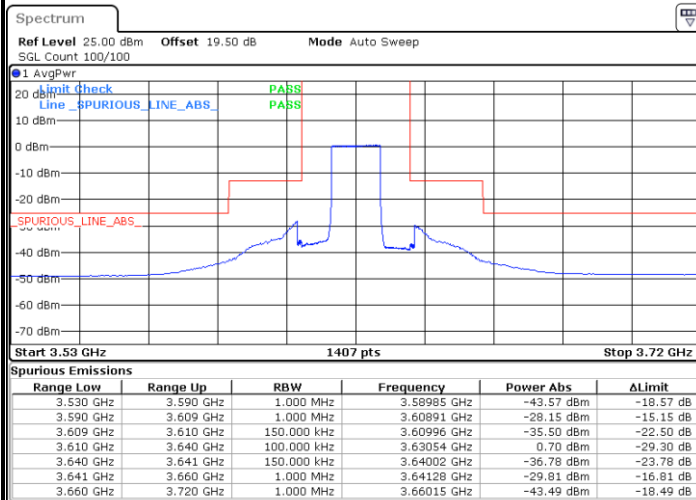
Date: 19 SEP 2025 12:01:41

Middle Channel / 1RBmax



Date: 19 SEP 2025 11:57:00

Middle Channel / FullRB



Date: 19 SEP 2025 12:06:21

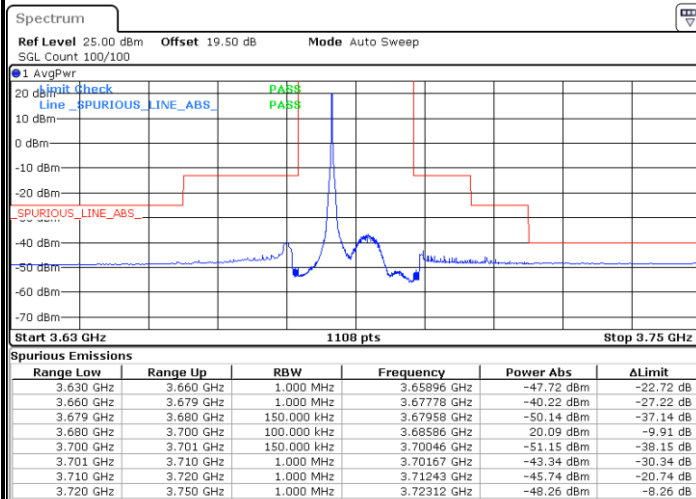
N/A



LTE Band 48 / 15MHz

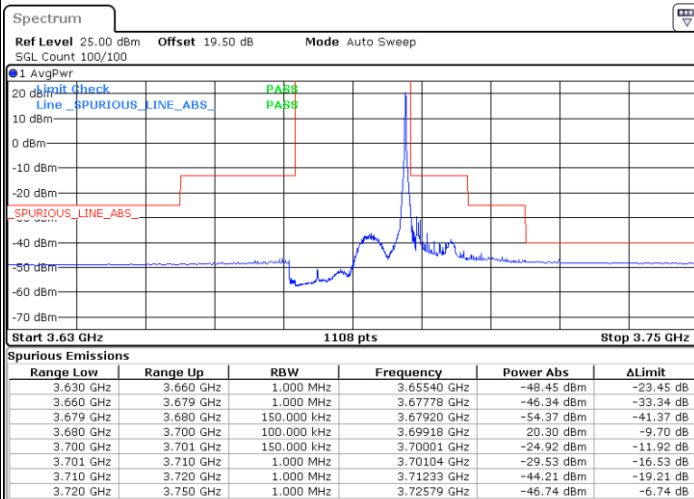
16QAM

Highest Channel / 1RB0



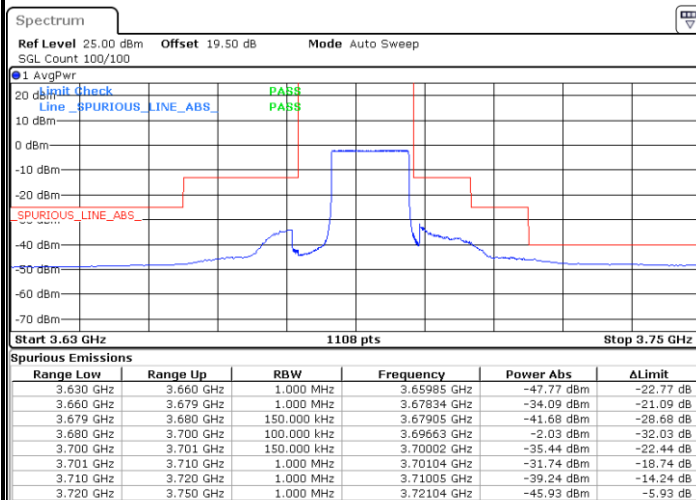
Date: 19 SEP 2025 12:15:34

Highest Channel / 1RBmax



Date: 19 SEP 2025 12:20:10

Highest Channel / FullRB



Date: 11 OCT 2025 13:11:08

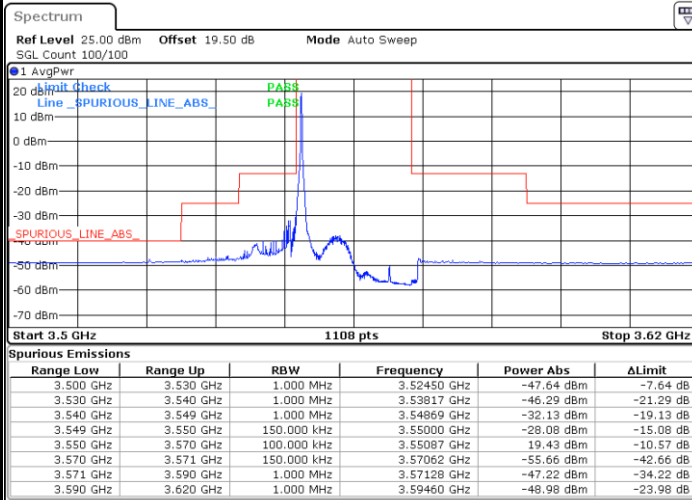
N/A



LTE Band 48 / 15MHz

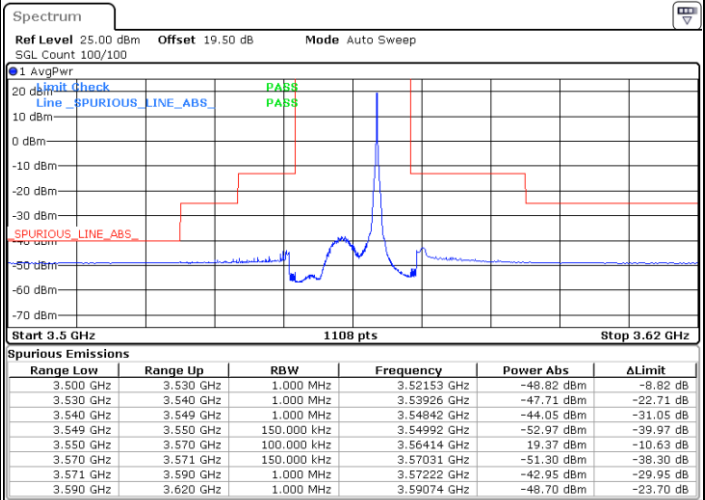
64QAM

Lowest Channel / 1RB0



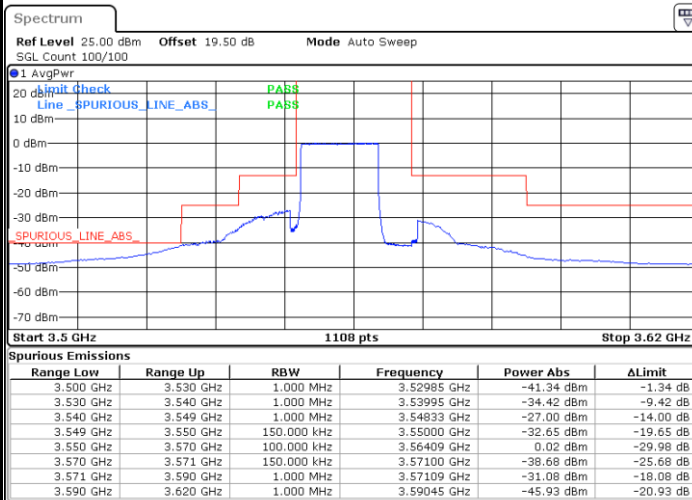
Date: 19 SEP 2025 11:29:49

Lowest Channel / 1RBmax



Date: 19 SEP 2025 11:33:26

Lowest Channel / FullIRB



Date: 19 SEP 2025 11:26:12

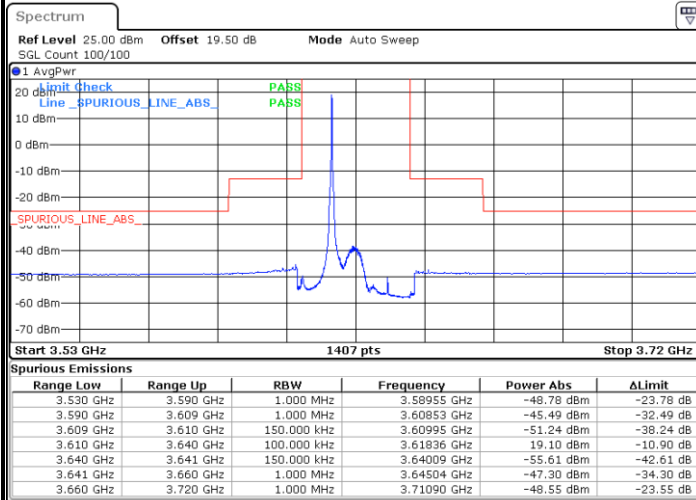
N/A



LTE Band 48 / 15MHz

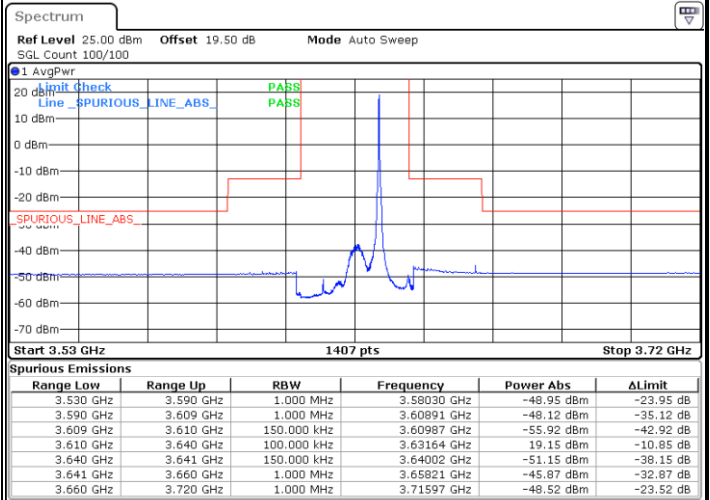
64QAM

Middle Channel / 1RB0



Date: 19 SEP 2025 12:03:14

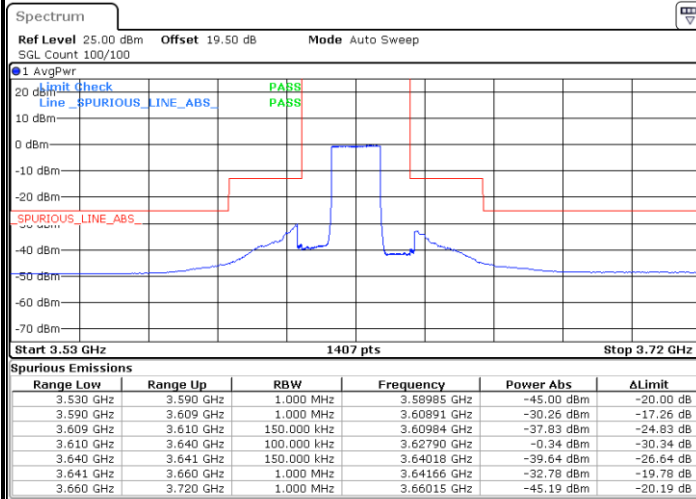
Middle Channel / 1RBmax



Date: 19 SEP 2025 11:58:34

Middle Channel / FullRB

+



Date: 19 SEP 2025 12:07:55

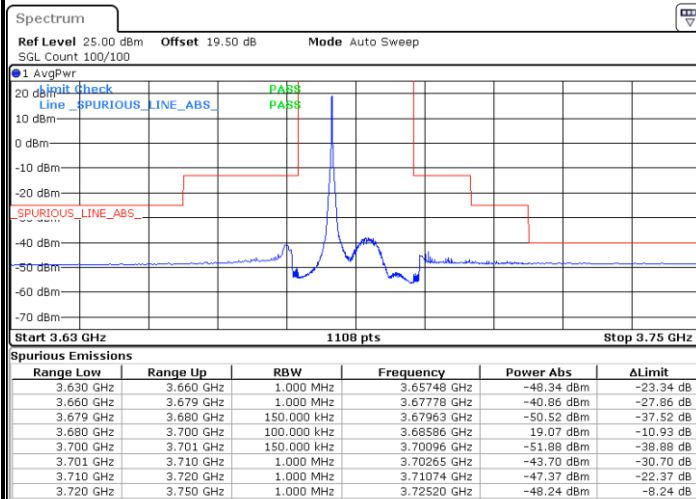
N/A



LTE Band 48 / 15MHz

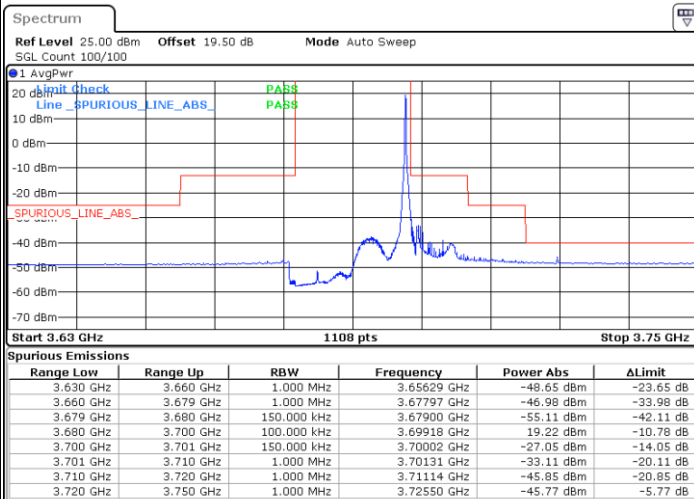
64QAM

Highest Channel / 1RB0



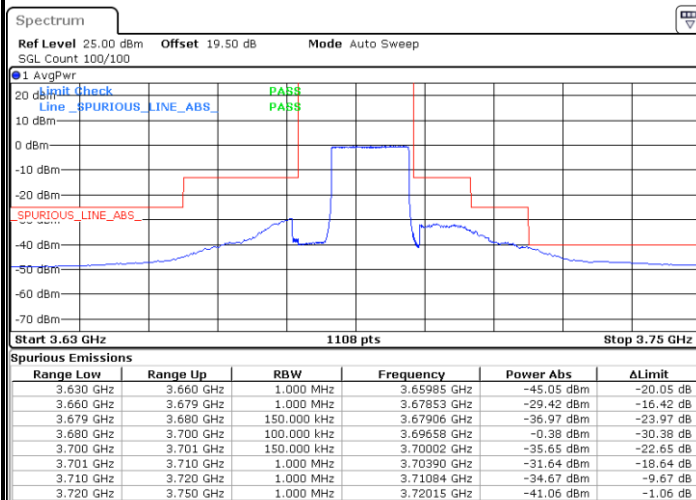
Date: 19 SEP 2025 12:17:06

Highest Channel / 1RBmax



Date: 19 SEP 2025 12:21:42

Highest Channel / FullRB



Date: 19 SEP 2025 12:12:30

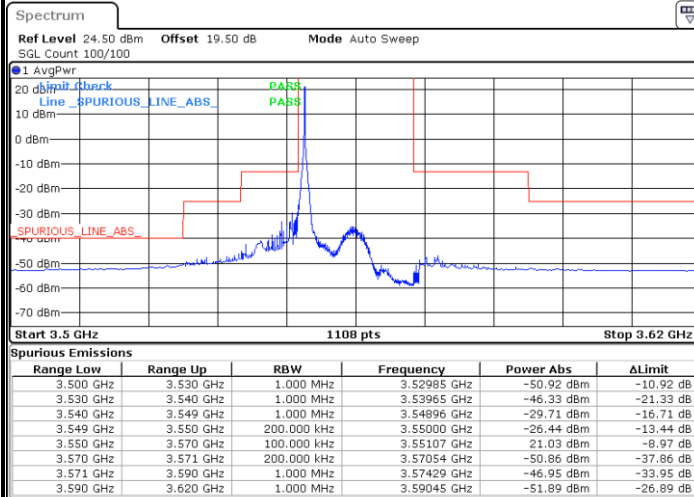
N/A



LTE Band 48 / 20MHz

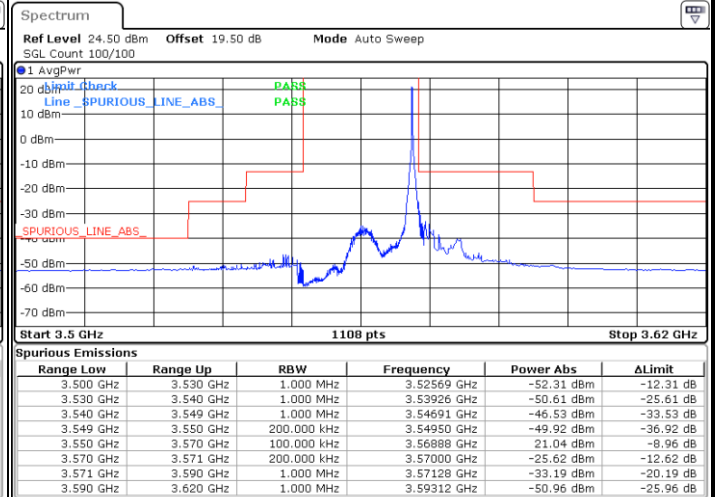
QPSK

Lowest Channel / 1RB0



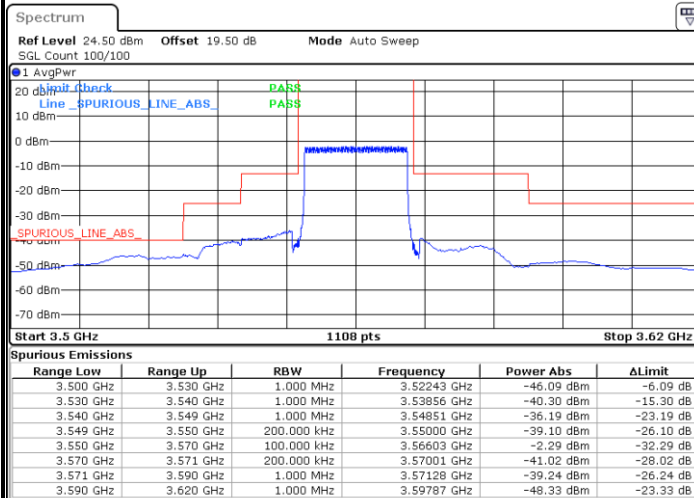
Date: 19 SEP 2025 12:23:57

Lowest Channel / 1RBmax



Date: 19 SEP 2025 12:31:38

Lowest Channel / FullIRB



Date: 11.OCT.2025 11:53:48

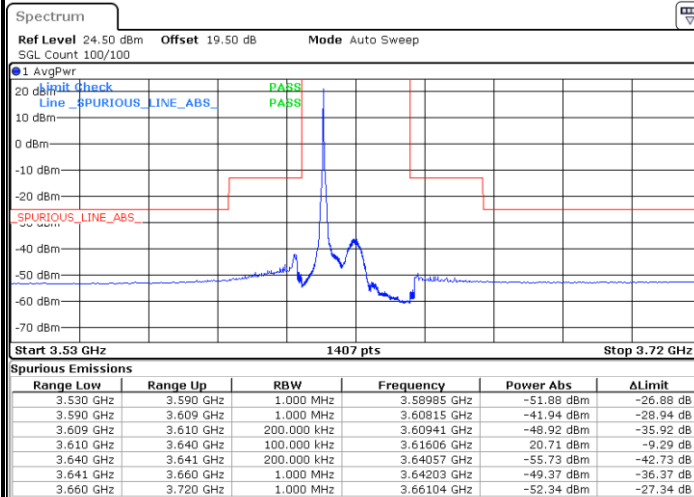
N/A



LTE Band 48 / 20MHz

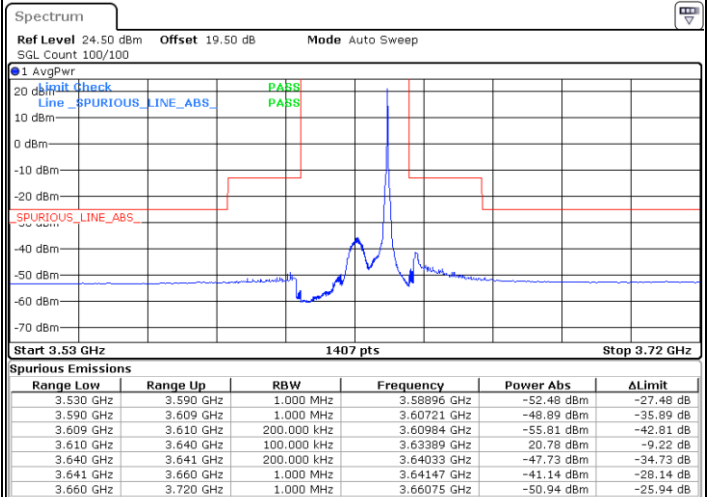
QPSK

Middle Channel / 1RB0



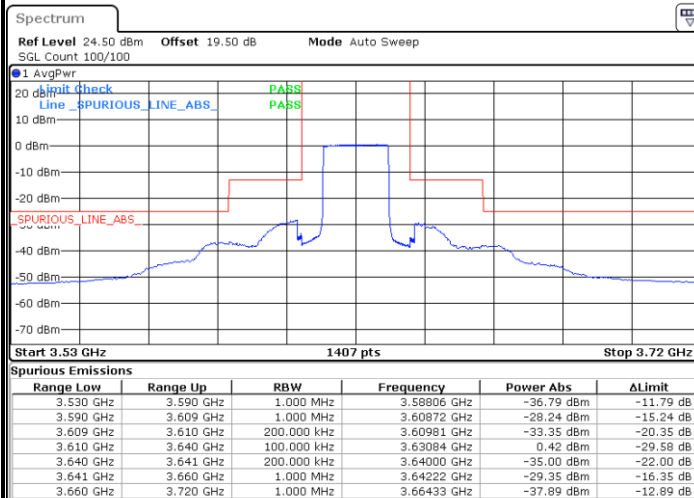
Date: 19 SEP 2025 12:50:11

Middle Channel / 1RBmax



Date: 19 SEP 2025 12:42:27

Middle Channel / FullRB



Date: 19 SEP 2025 12:40:54

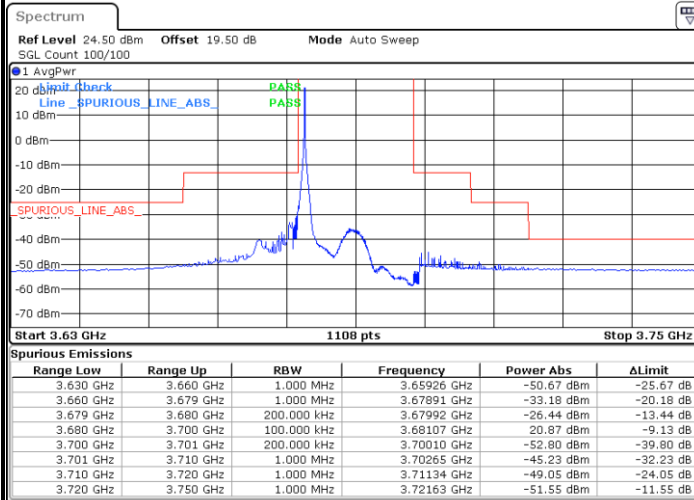
N/A



LTE Band 48 / 20MHz

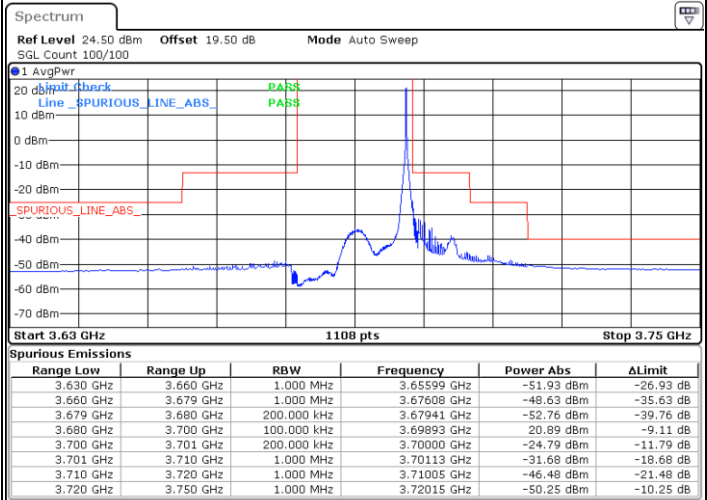
QPSK

Highest Channel / 1RB0



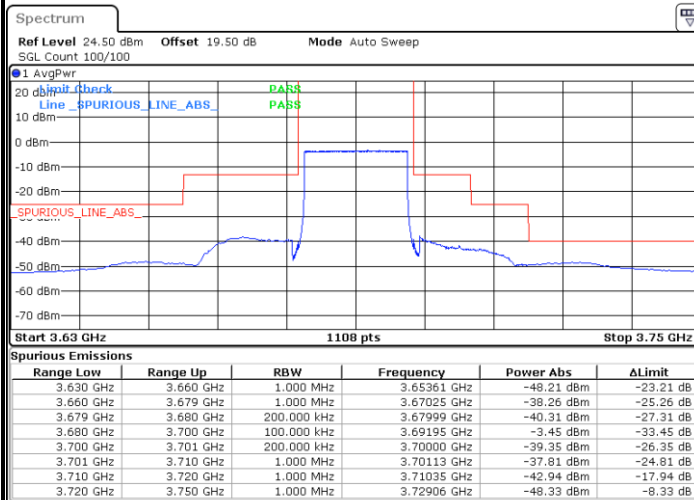
Date: 19 SEP 2025 12:51:42

Highest Channel / 1RBmax



Date: 19 SEP 2025 12:59:22

Highest Channel / FullRB



Date: 11.OCT.2025 11:59:06

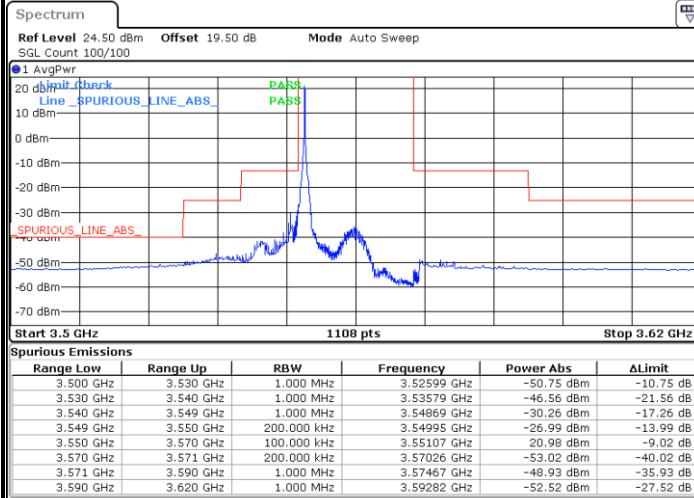
N/A



LTE Band 48 / 20MHz

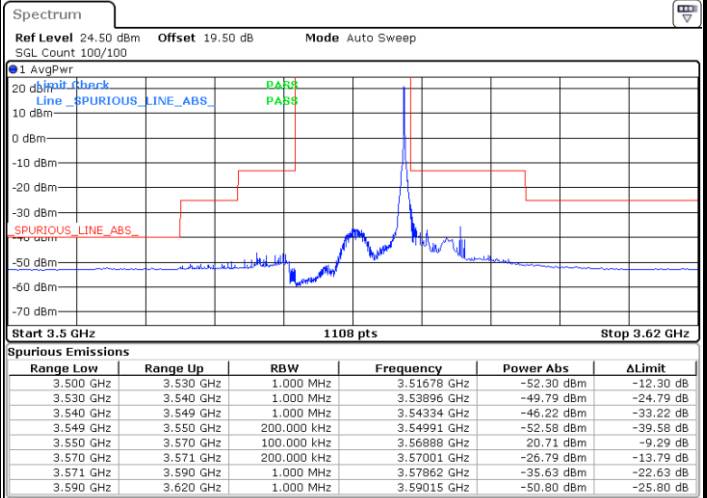
16QAM

Lowest Channel / 1RB0



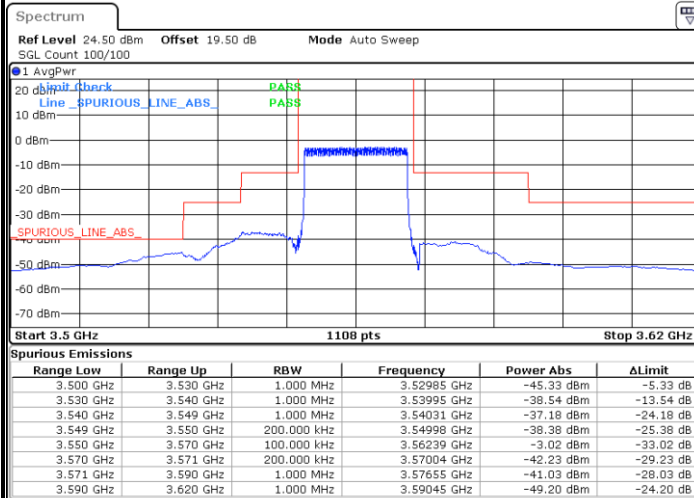
Date: 19 SEP 2025 12:25:30

Lowest Channel / 1RBmax



Date: 19 SEP 2025 12:30:06

Lowest Channel / FullIRB



Date: 11 OCT 2025 11:55:56

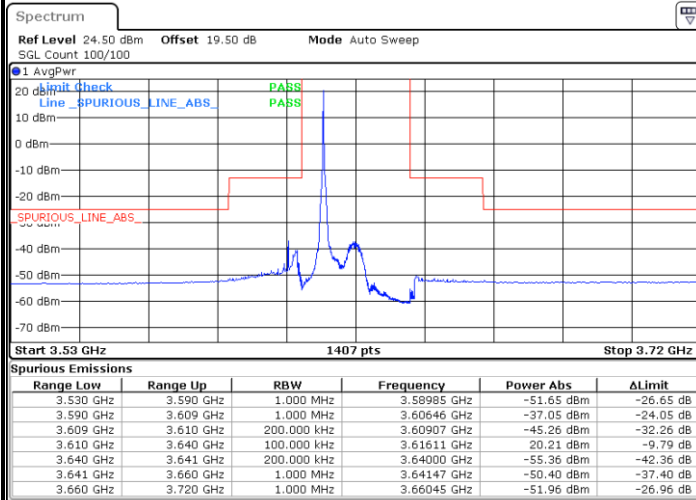
N/A



LTE Band 48 / 20MHz

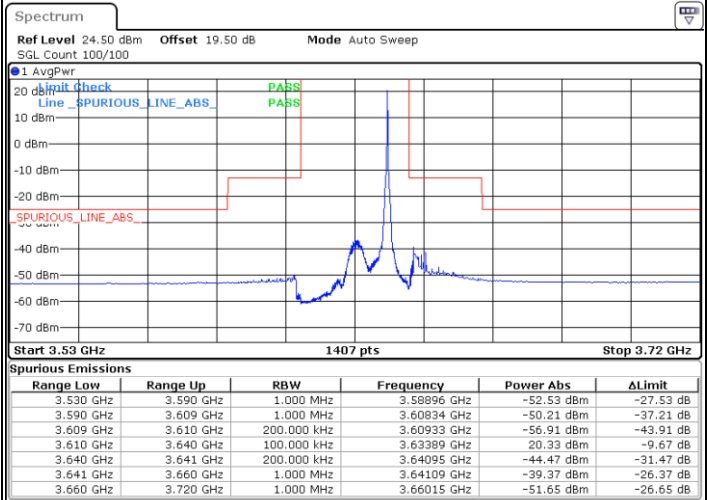
16QAM

Middle Channel / 1RB0



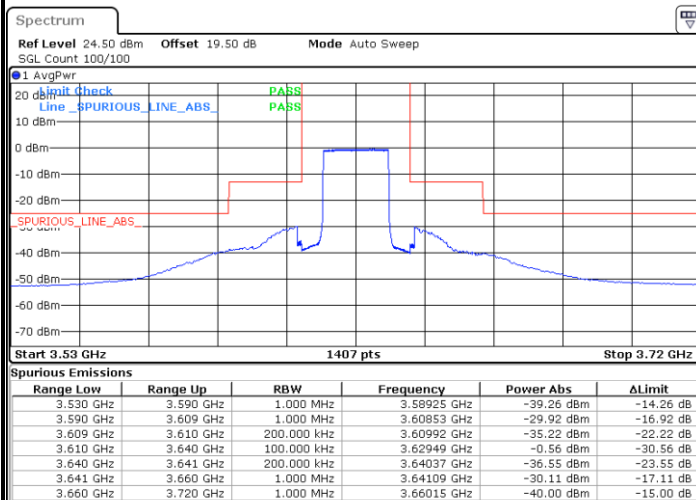
Date: 19 SEP 2025 12:48:38

Middle Channel / 1RBmax



Date: 19 SEP 2025 12:44:00

Middle Channel / FullRB



Date: 19 SEP 2025 12:39:21

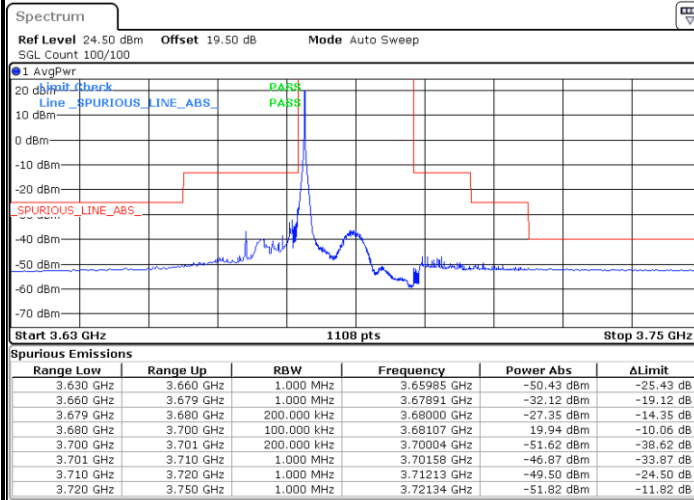
N/A



LTE Band 48 / 20MHz

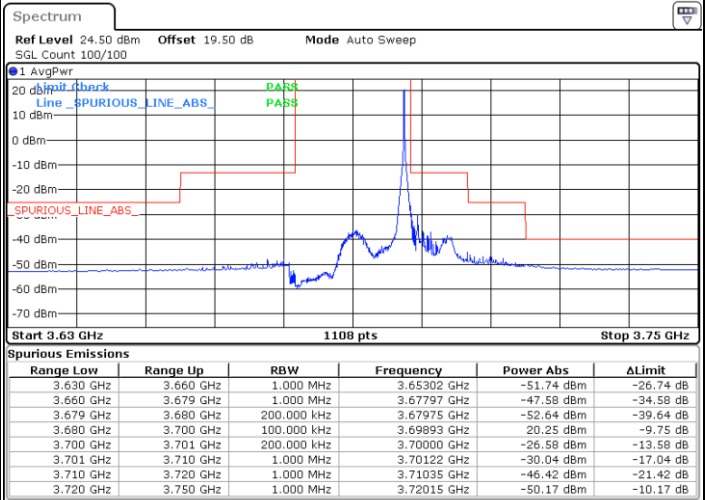
16QAM

Highest Channel / 1RB0



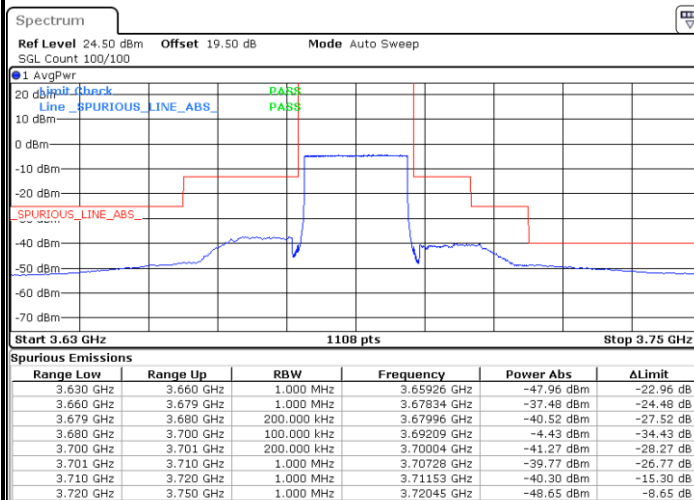
Date: 19 SEP 2025 12:53:14

Highest Channel / 1RBmax



Date: 19 SEP 2025 12:57:50

Highest Channel / FullRB



Date: 11 OCT 2025 11:57:39

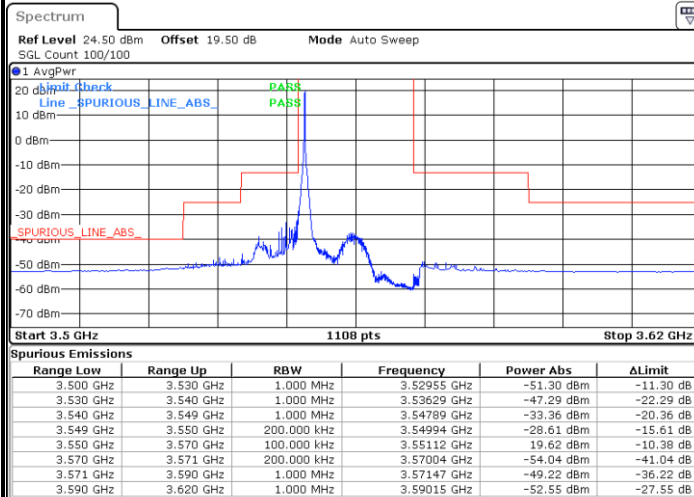
N/A



LTE Band 48 / 20MHz

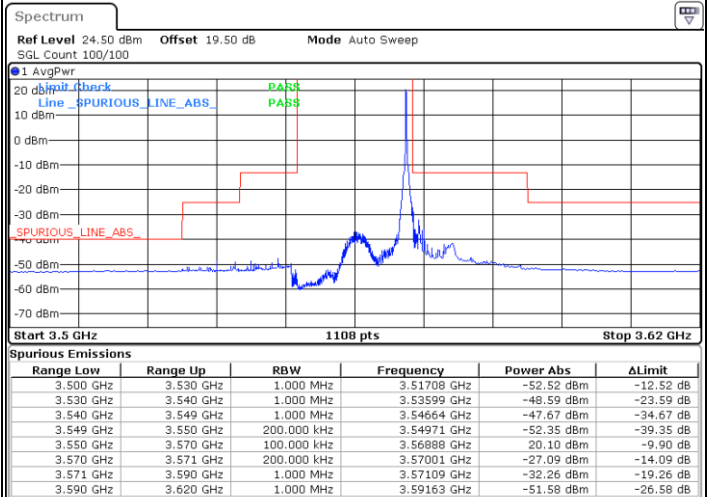
64QAM

Lowest Channel / 1RB0



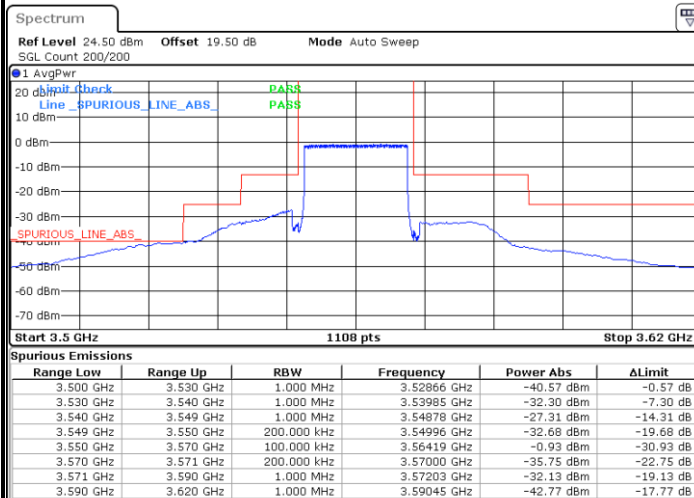
Date: 19 SEP 2025 12:27:02

Lowest Channel / 1RBmax



Date: 19 SEP 2025 12:28:34

Lowest Channel / FullIRB



Date: 19 SEP 2025 16:37:21

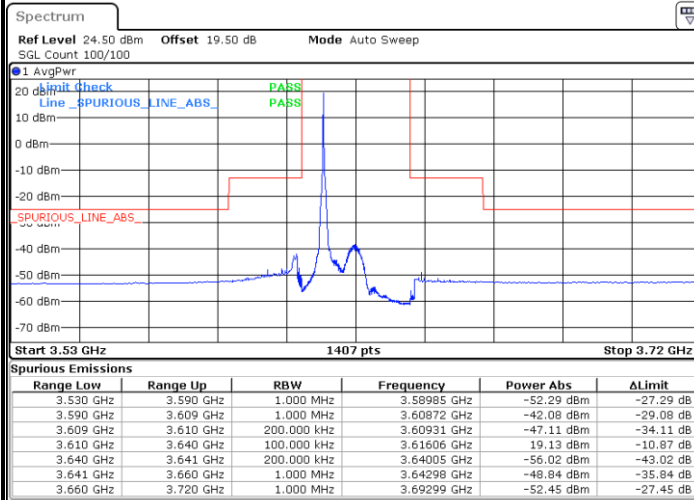
N/A



LTE Band 48 / 20MHz

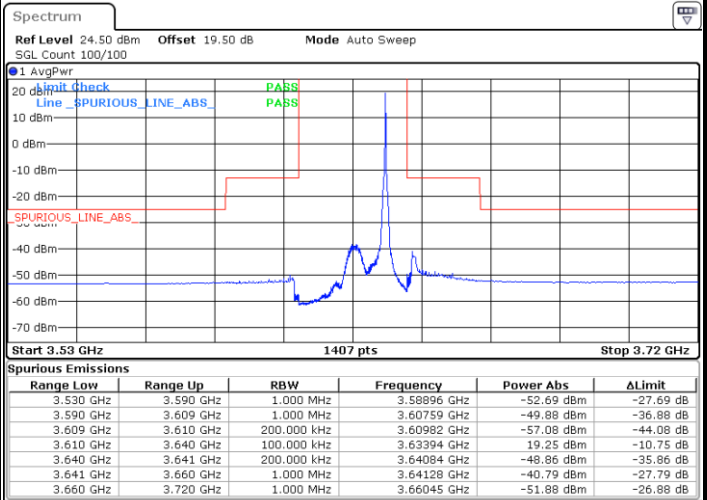
64QAM

Middle Channel / 1RB0



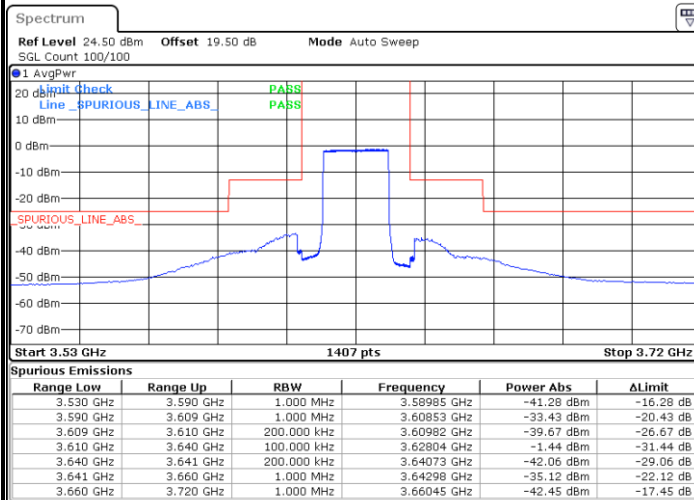
Date: 19 SEP 2025 12:47:05

Middle Channel / 1RBmax



Date: 19 SEP 2025 12:45:33

Middle Channel / FullRB



Date: 19 SEP 2025 12:37:48

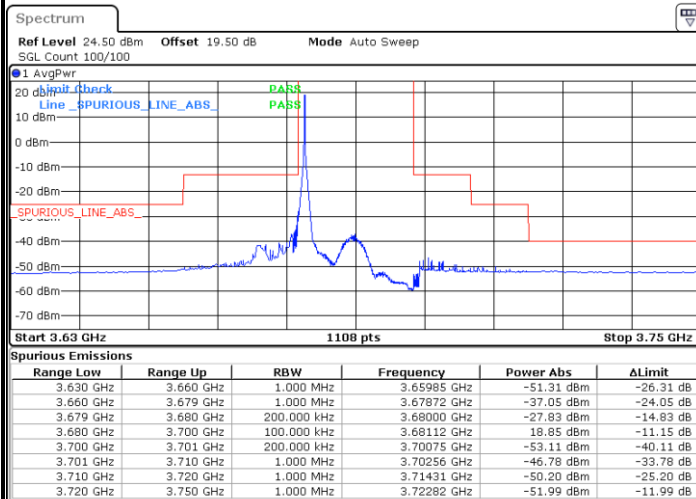
N/A



LTE Band 48 / 20MHz

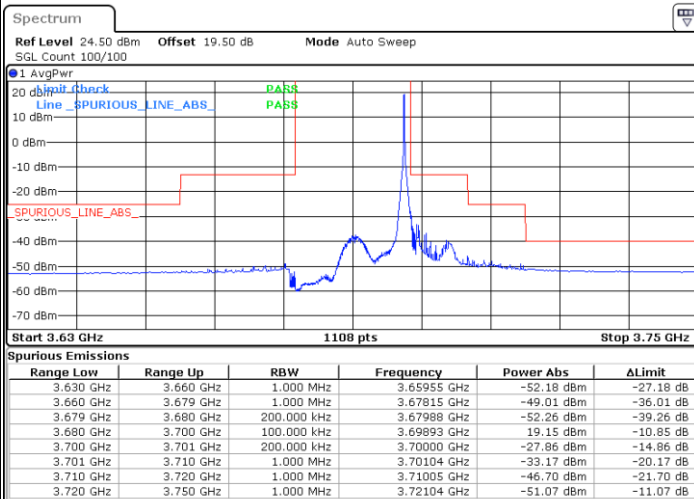
64QAM

Highest Channel / 1RB0



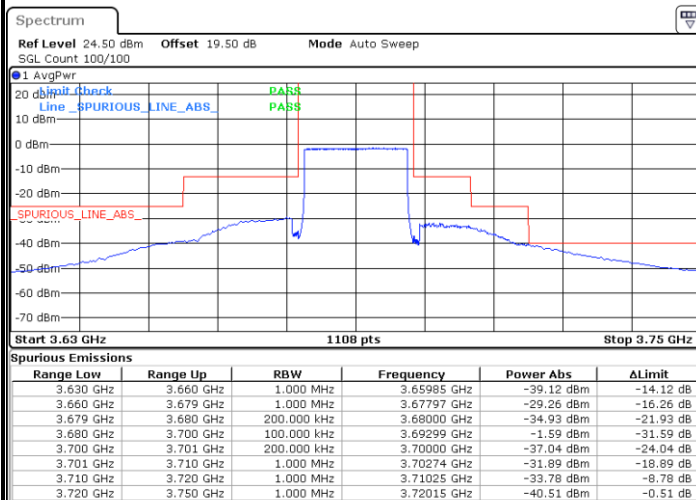
Date: 19 SEP 2025 12:54:46

Highest Channel / 1RBmax



Date: 19 SEP 2025 12:56:18

Highest Channel / FullRB



Date: 19 SEP 2025 13:03:57

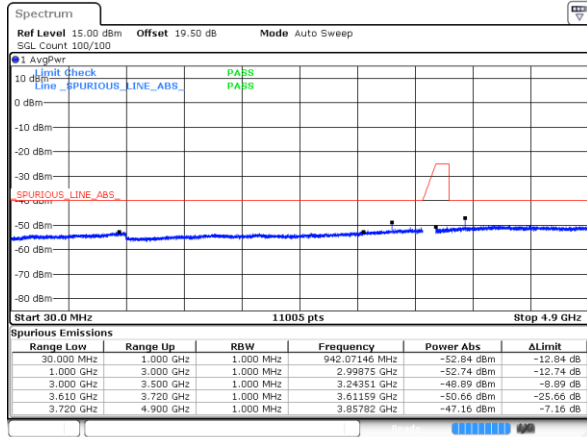
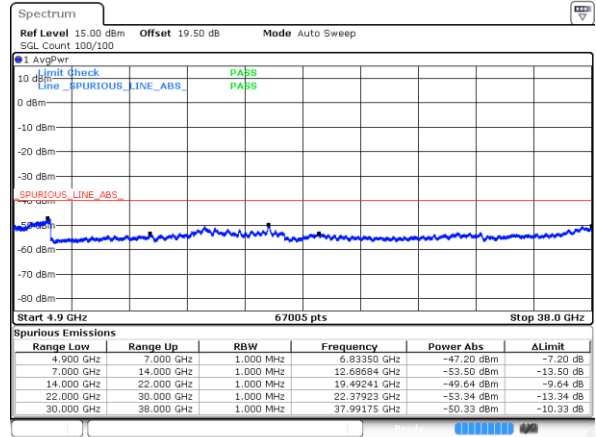
N/A



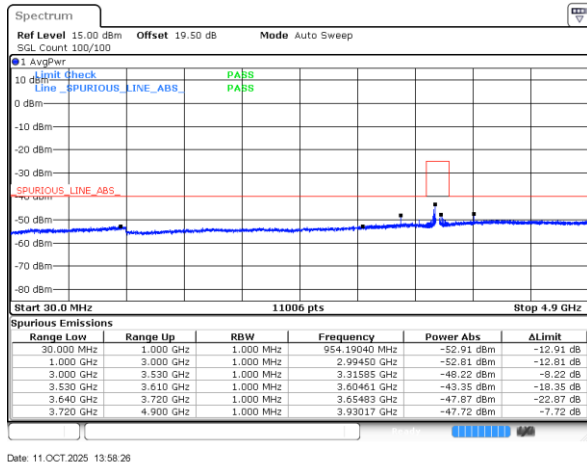
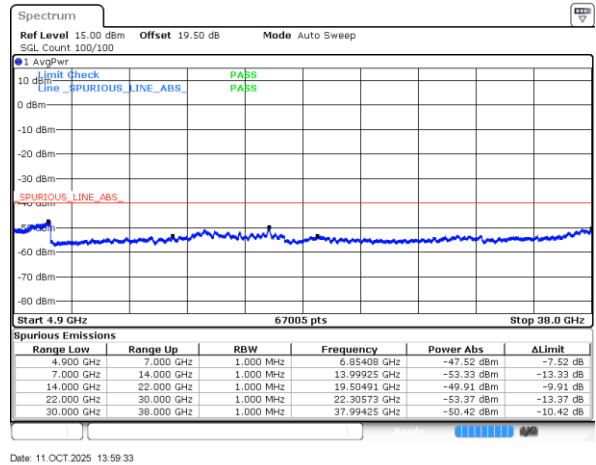
Conducted Spurious Emission

LTE Band 48 / 5MHz

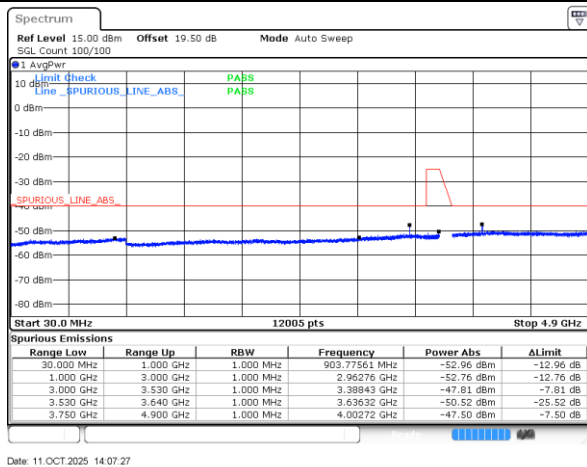
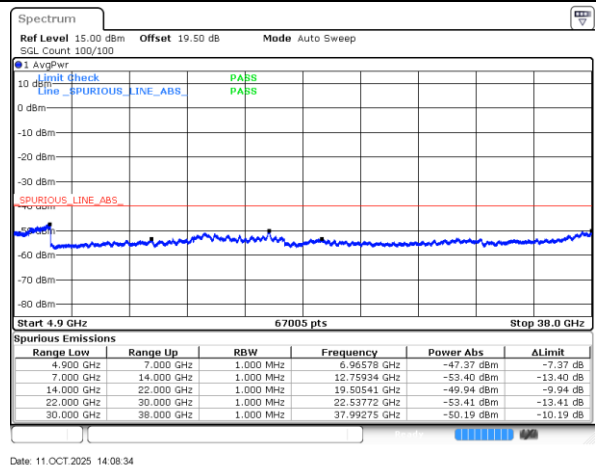
Lowest Channel / QPSK



Middle Channel / QPSK



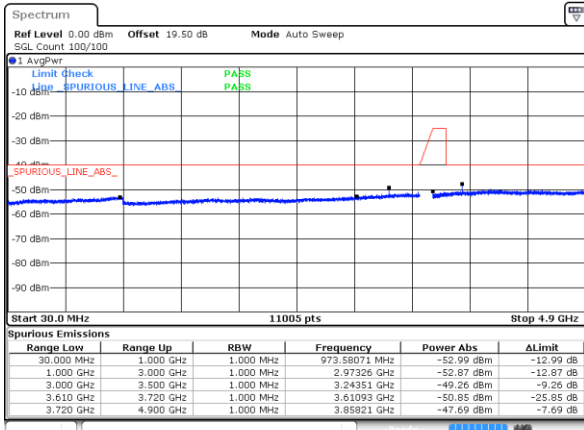
Highest Channel / QPSK



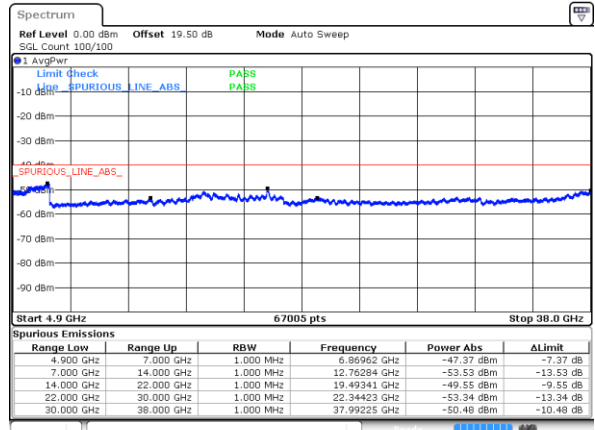


LTE Band 48 / 10MHz

Lowest Channel / QPSK

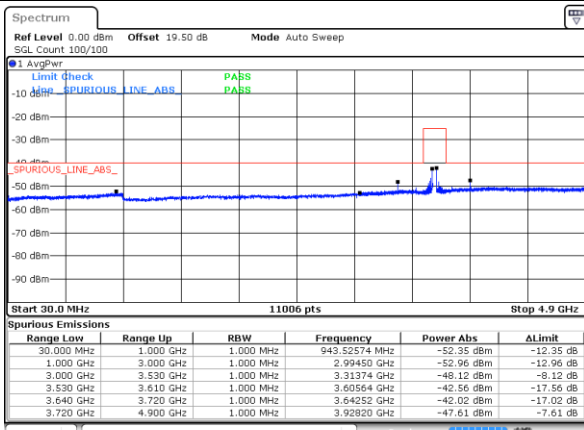


Date: 13.OCT.2025 11:16:26

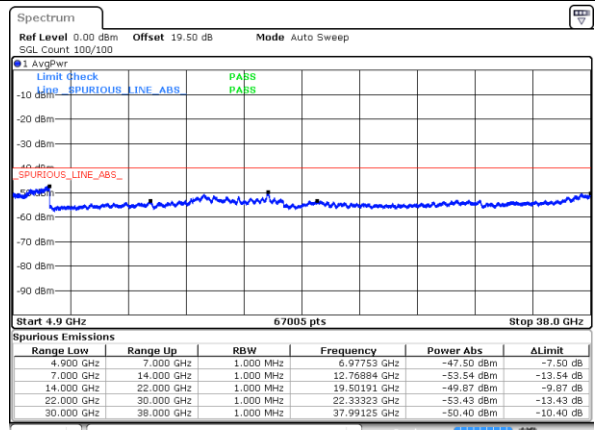


Date: 13.OCT.2025 11:17:34

Middle Channel / QPSK

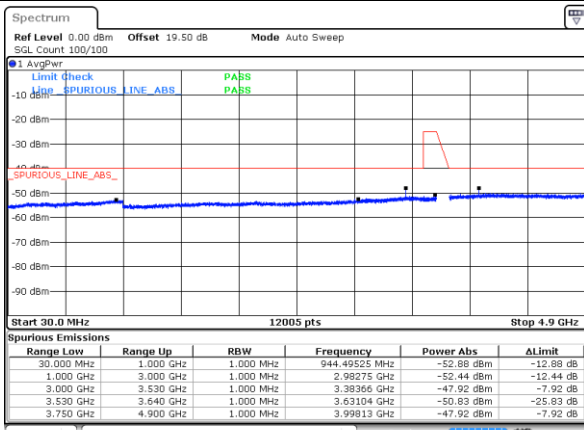


Date: 13.OCT.2025 11:31:51

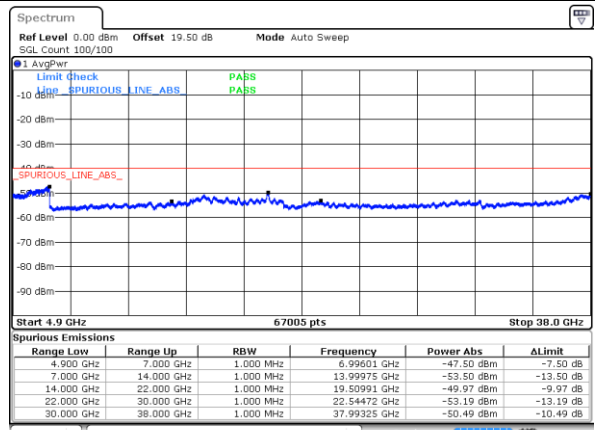


Date: 13.OCT.2025 11:32:59

Highest Channel / QPSK



Date: 13.OCT.2025 11:43:05

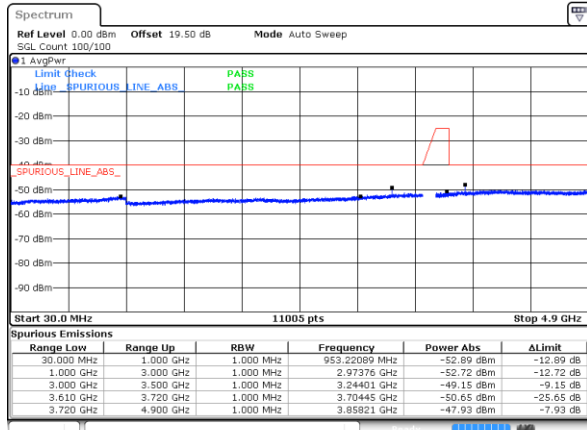


Date: 13.OCT.2025 11:44:12

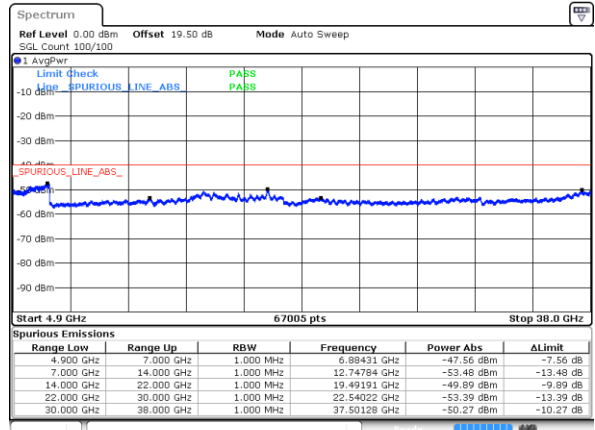


LTE Band 48 / 15MHz

Lowest Channel / QPSK

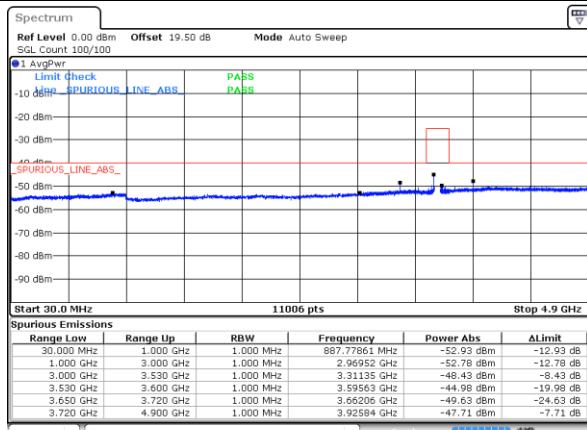


Date: 13.OCT.2025 11:57:14

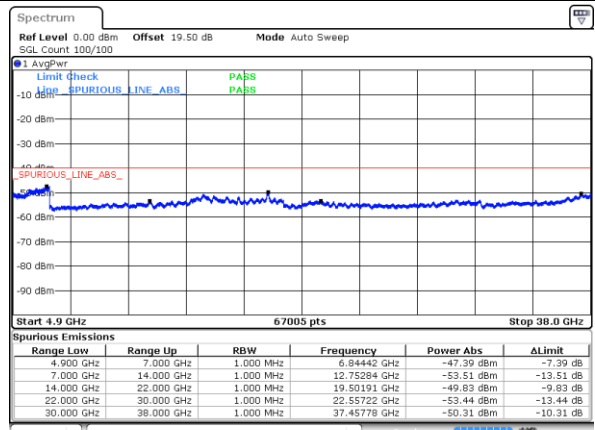


Date: 13.OCT.2025 11:58:21

Middle Channel / QPSK

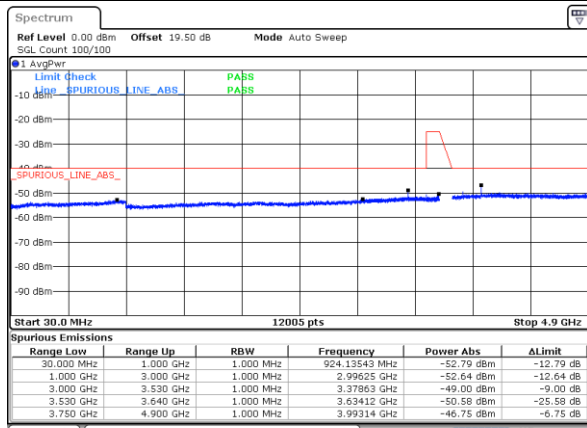


Date: 13.OCT.2025 12:07:28

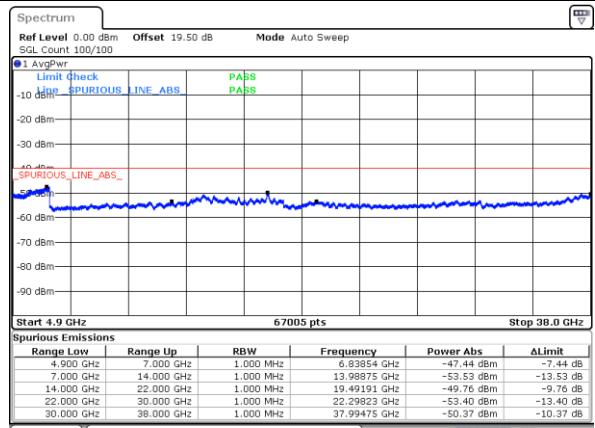


Date: 13.OCT.2025 12:08:35

Highest Channel / QPSK



Date: 13.OCT.2025 12:16:50

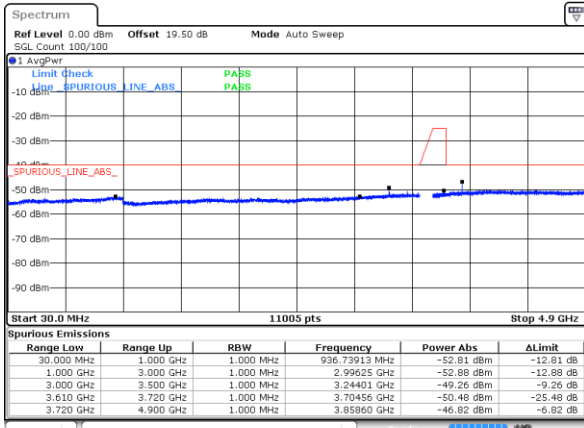


Date: 13.OCT.2025 12:17:57

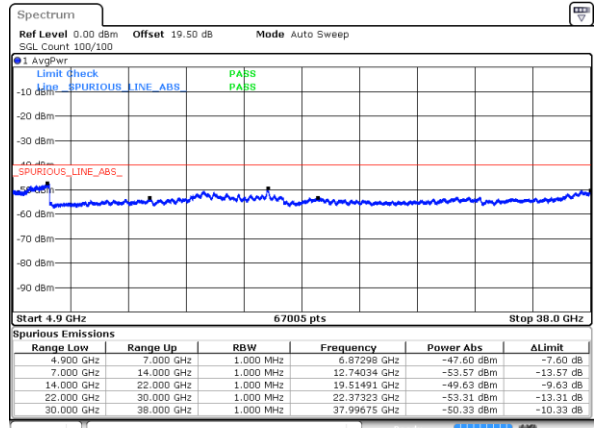


LTE Band 48 / 20MHz

Lowest Channel / QPSK

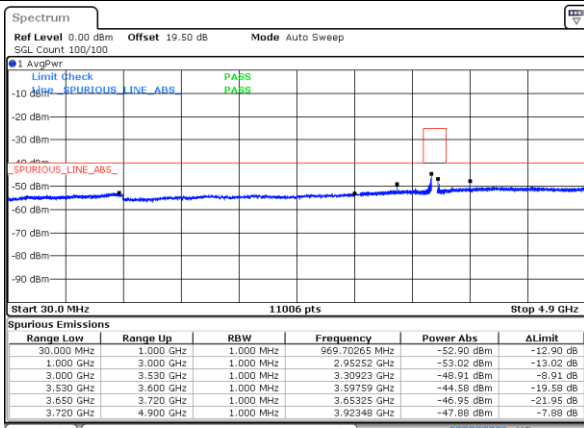


Date: 13.OCT.2025 12:26:29

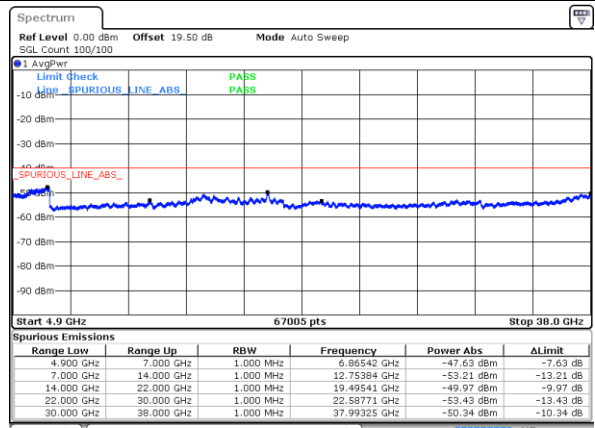


Date: 13.OCT.2025 12:27:36

Middle Channel / QPSK

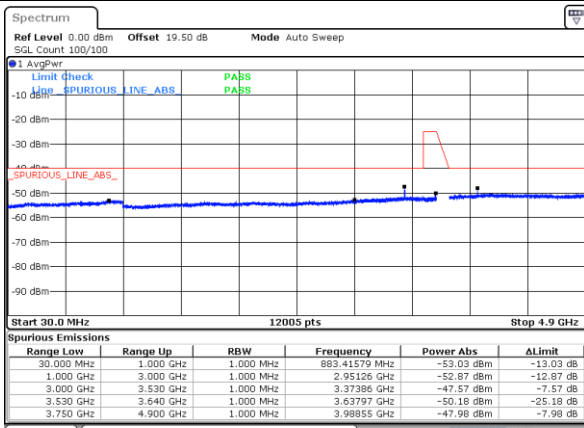


Date: 13.OCT.2025 12:36:48

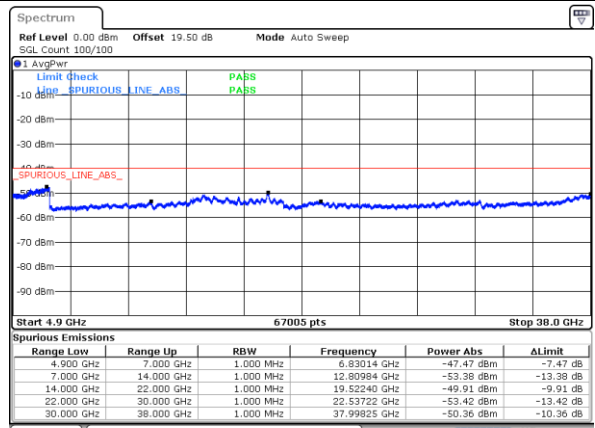


Date: 13.OCT.2025 12:37:55

Highest Channel / QPSK



Date: 13.OCT.2025 12:47:02



Date: 13.OCT.2025 12:48:10

Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	3.6	PASS
40	Normal Voltage	2.2	
30	Normal Voltage	2.5	
20(Ref.)	Normal Voltage	3.5	
10	Normal Voltage	2.1	
0	Normal Voltage	3.9	
-10	Normal Voltage	2.3	
-20	Normal Voltage	4.2	
-30	Normal Voltage	2.9	
20	Maximum Voltage	4.6	
20	Normal Voltage	3.5	
20	Battery End Point	3.8	

Note:

1. Normal Voltage = 3.91 V.; Battery End Point (ACLRP) = 3.5 V.; Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

$$|MAX(\Delta f)| = 4.6\text{Hz}$$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - MAX(\Delta f) $	3550.252195	$\geq 3550 \text{ MHz}$	PASS
$f_H + MAX(\Delta f) $	3699.757705	$\leq 3700 \text{ MHz}$	



LTE Band 48(Other PA)

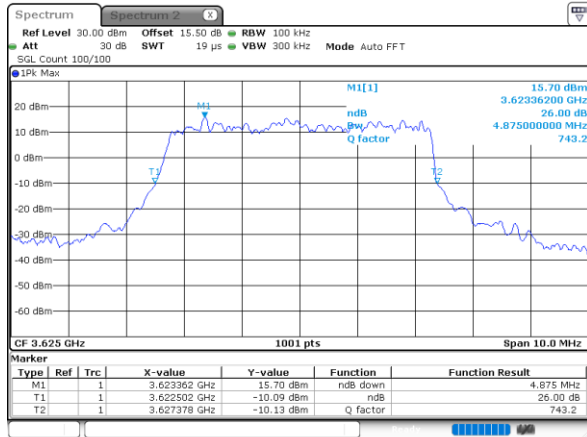
26dB Bandwidth

Mode	LTE Band 48 : 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	-	-	-	-	4.88	4.82	9.77	9.67	14.09	14.51	18.74	18.62

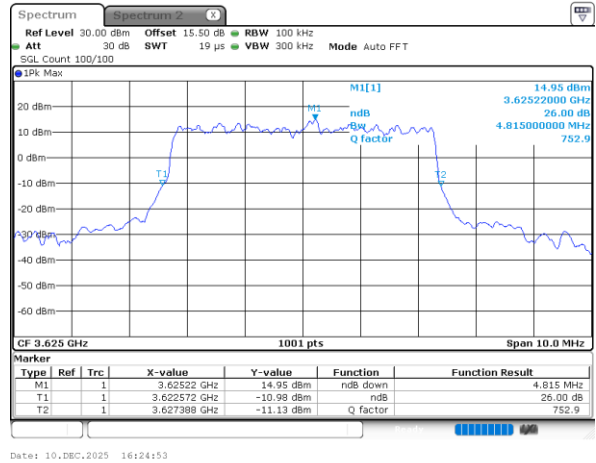


LTE Band 48

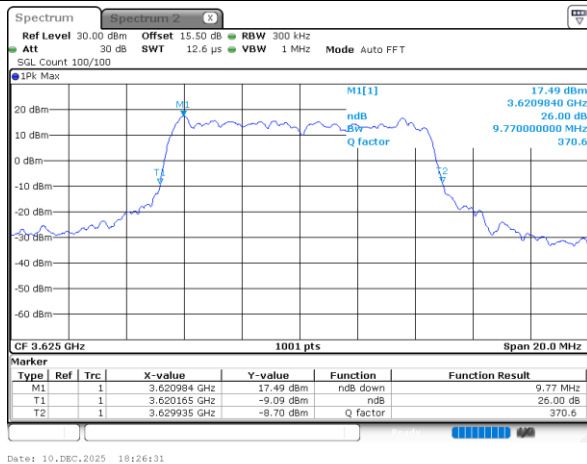
Middle Channel / 5MHz / QPSK



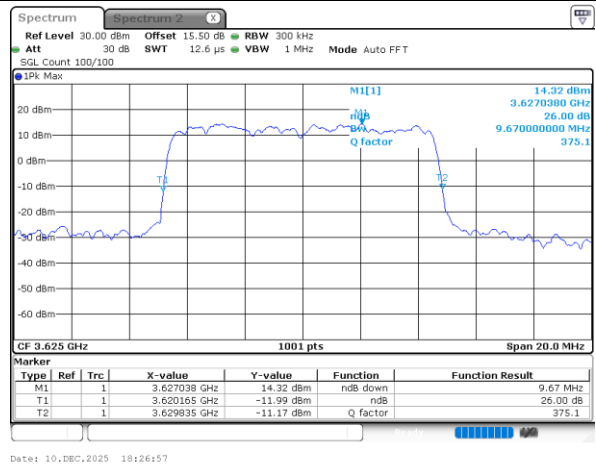
Middle Channel / 5MHz / 16QAM



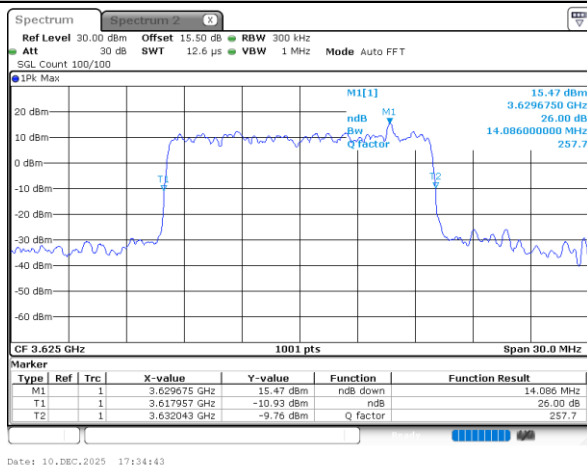
Middle Channel / 10MHz / QPSK



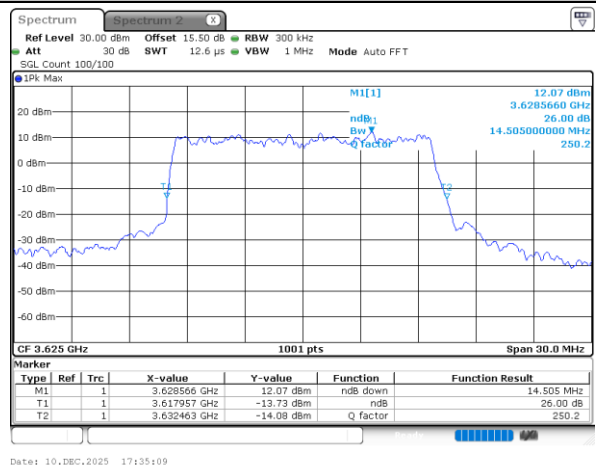
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



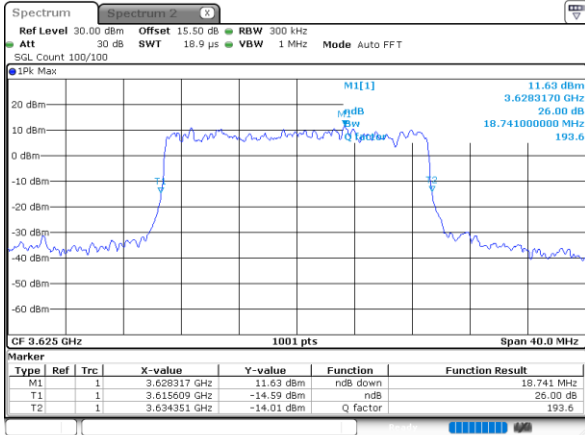
Middle Channel / 15MHz / 16QAM





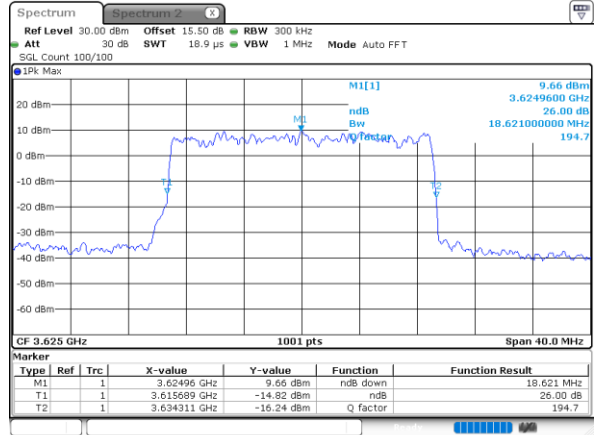
LTE Band 48

Middle Channel / 20MHz / QPSK



Date: 10.DEC.2025 17:01:53

Middle Channel / 20MHz / 16QAM



Date: 10.DEC.2025 17:01:24



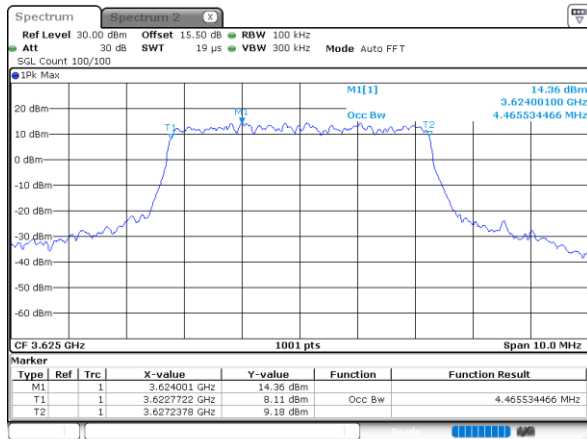
Occupied Bandwidth

Mode	LTE Band 48 : 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	-	-	-	-	4.47	4.50	9.03	9.03	13.49	13.43	17.90	17.90



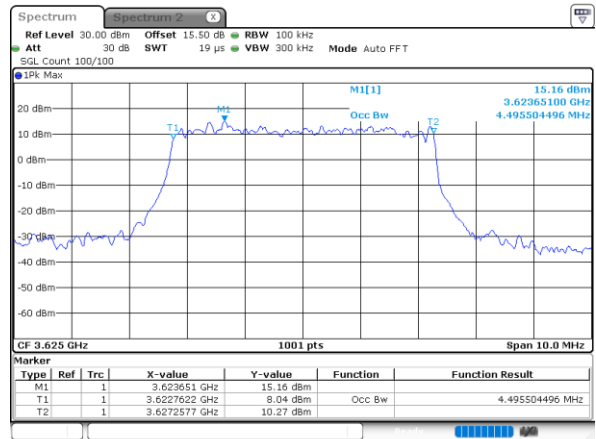
LTE Band 48

Middle Channel / 5MHz / QPSK



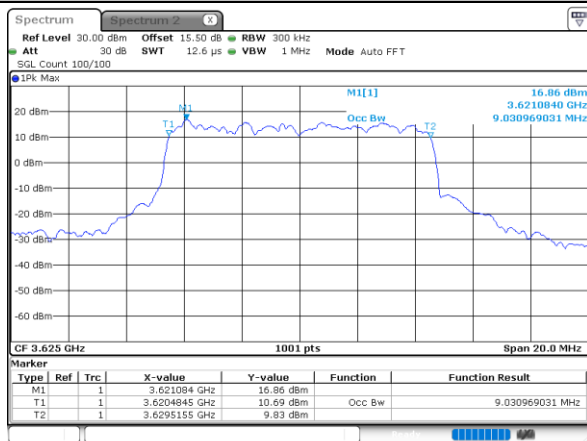
Date: 10, DEC, 2025 16:24:10

Middle Channel / 5MHz / 16QAM



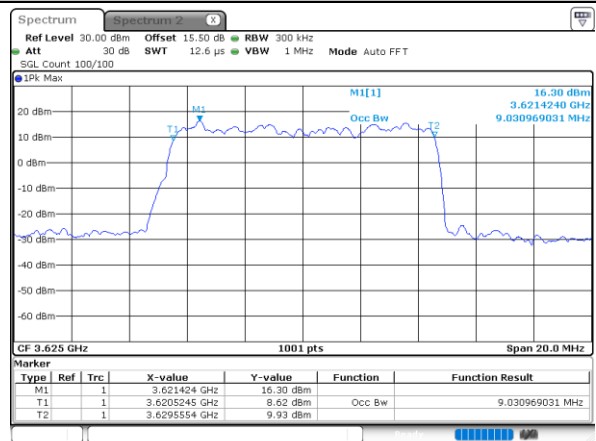
Date: 10, DEC, 2025 16:25:07

Middle Channel / 10MHz / QPSK



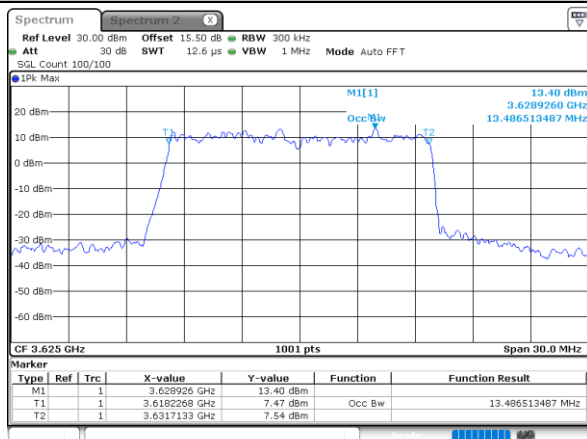
Date: 10, DEC, 2025 18:26:17

Middle Channel / 10MHz / 16QAM



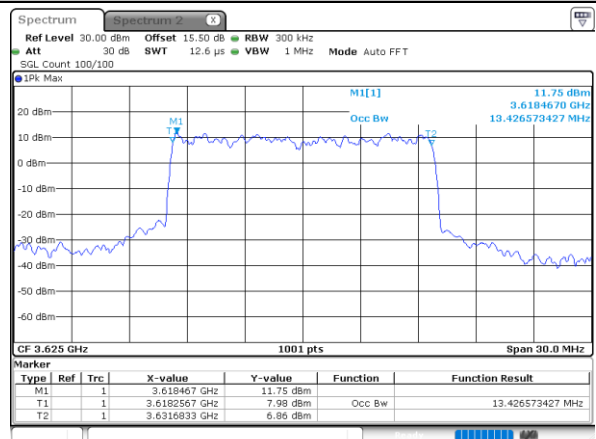
Date: 10, DEC, 2025 18:27:11

Middle Channel / 15MHz / QPSK



Date: 10, DEC, 2025 17:34:29

Middle Channel / 15MHz / 16QAM

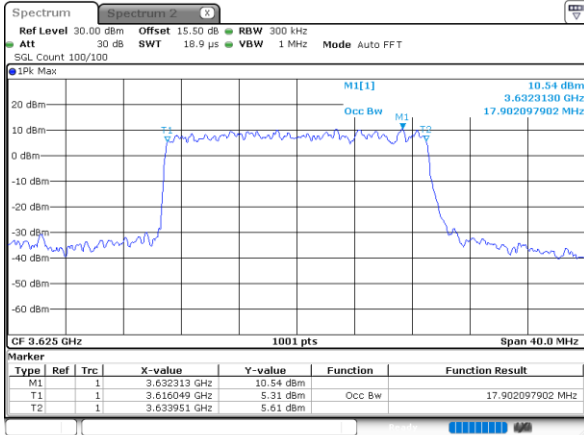


Date: 10, DEC, 2025 17:35:23

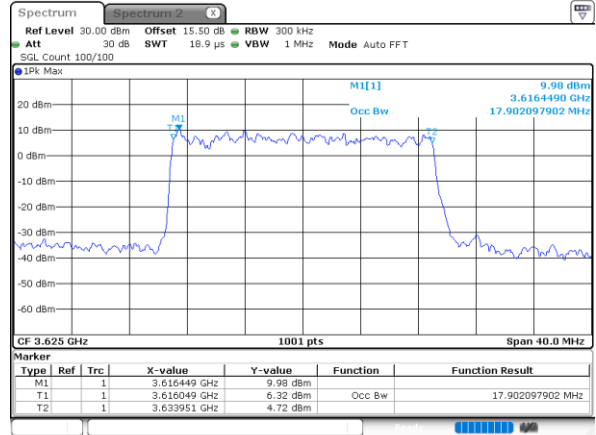


LTE Band 48

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



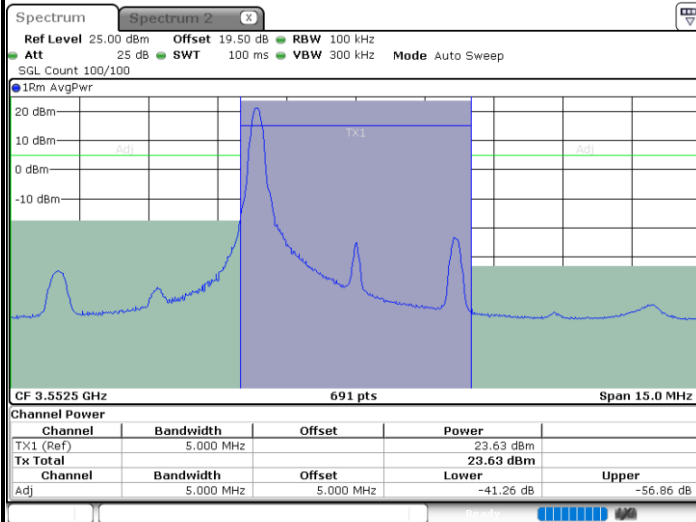


ACLR

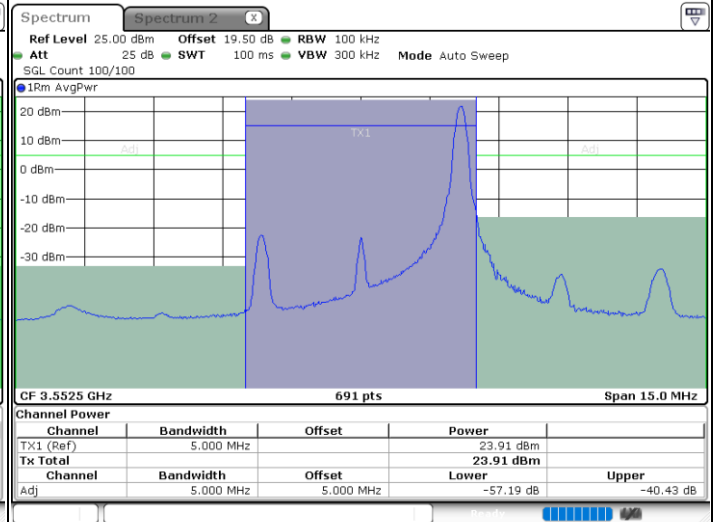
LTE Band 48 / 5MHz

QPSK

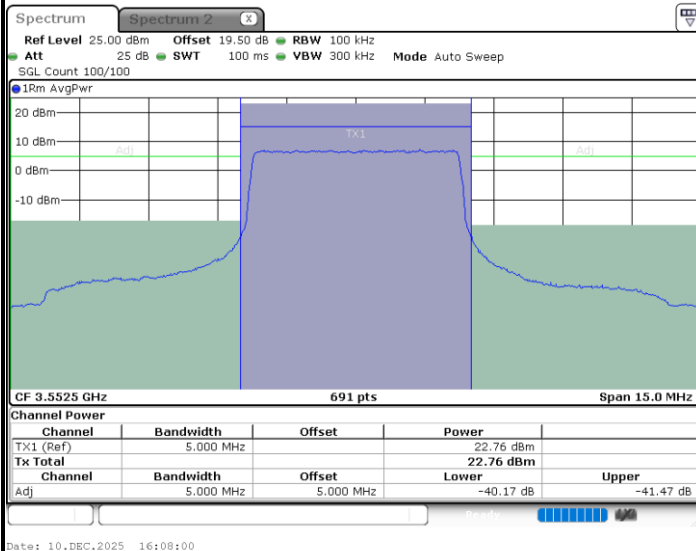
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullIRB



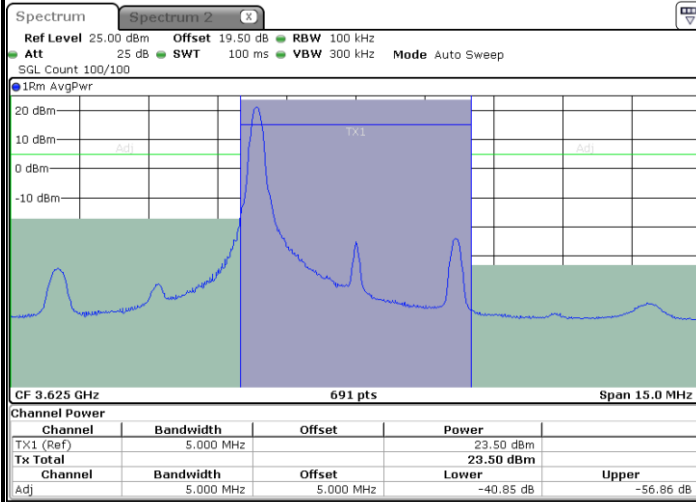
N/A



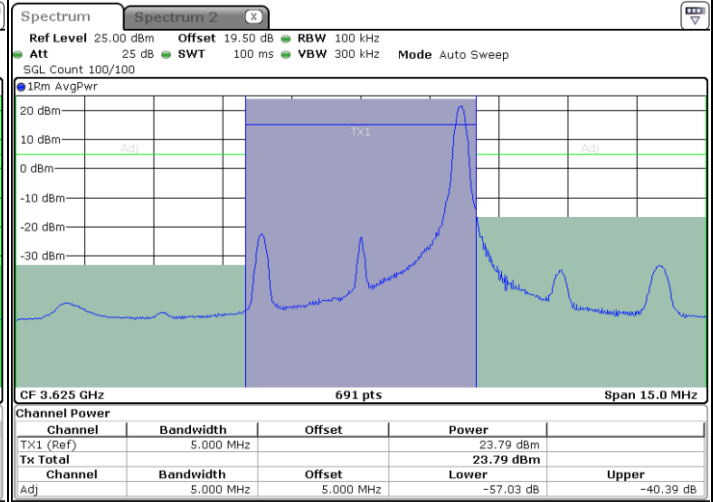
LTE Band 48 / 5MHz

QPSK

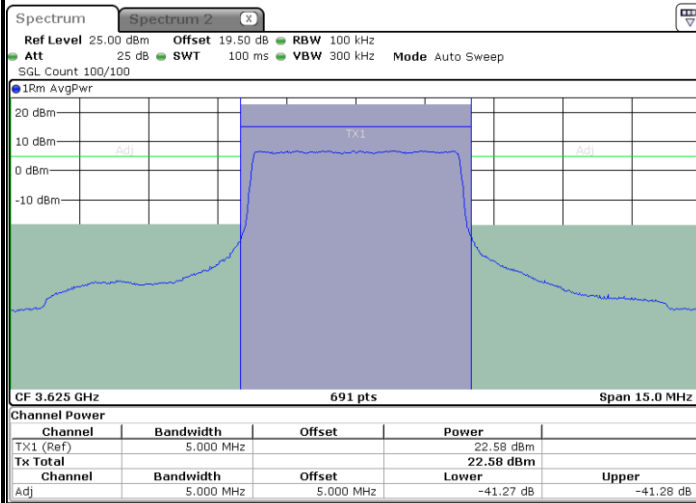
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB



N/A