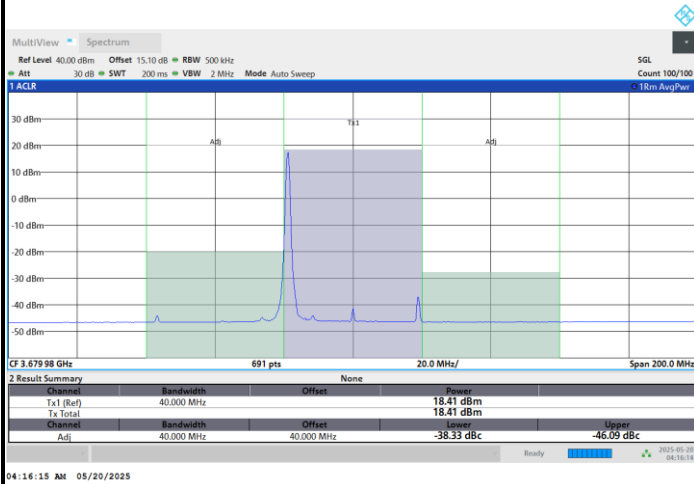




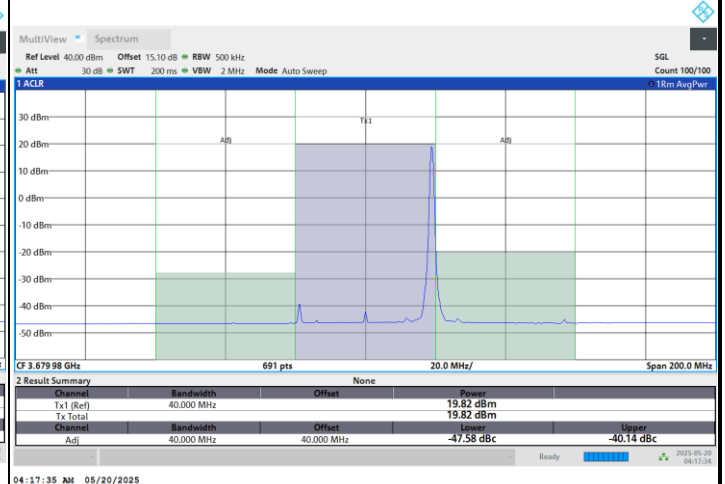
FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Highest Channel

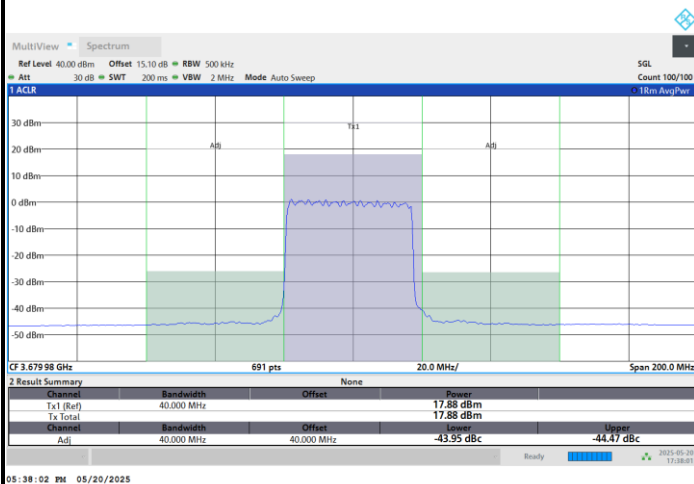
1RB0



1RBmax



Full RB

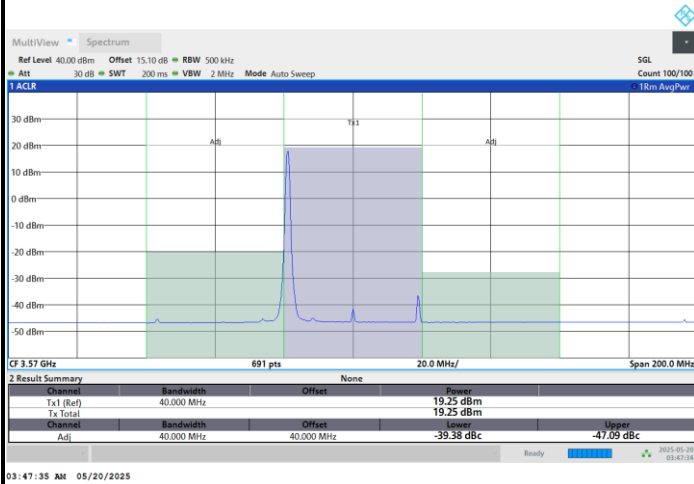




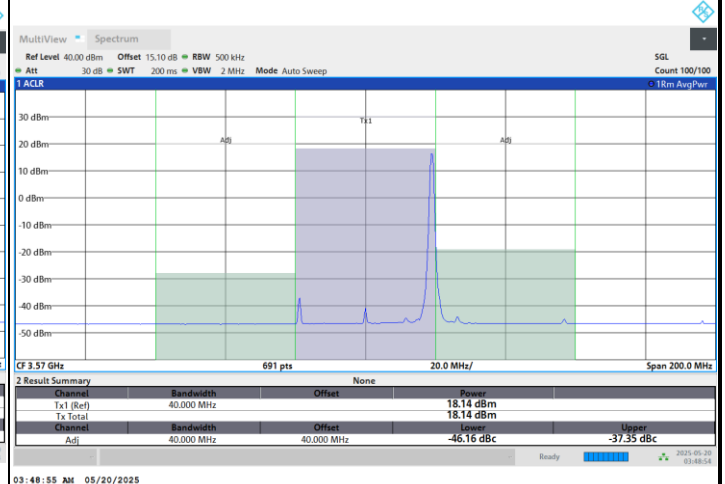
FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Lowest Channel

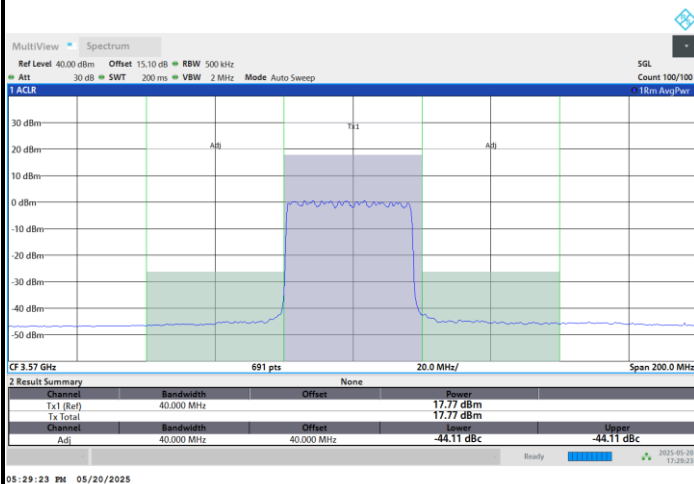
1RB0



1RBmax



Full RB

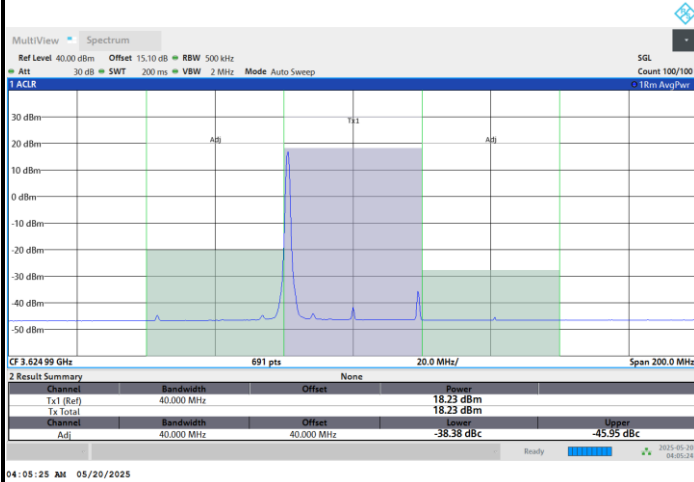




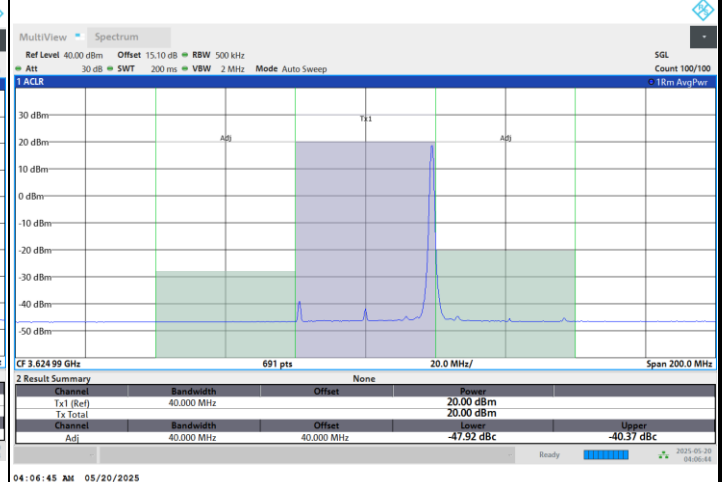
FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Middle Channel

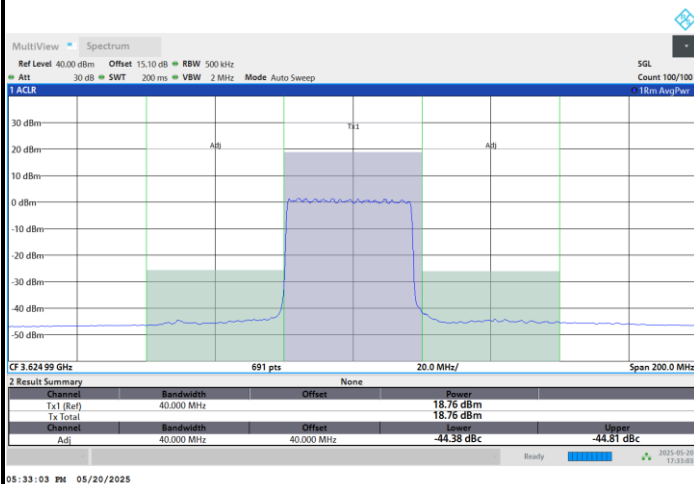
1RB0



1RBmax



Full RB

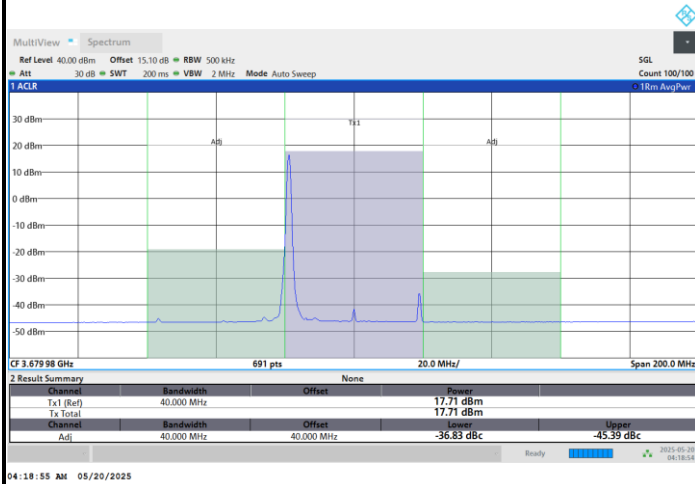




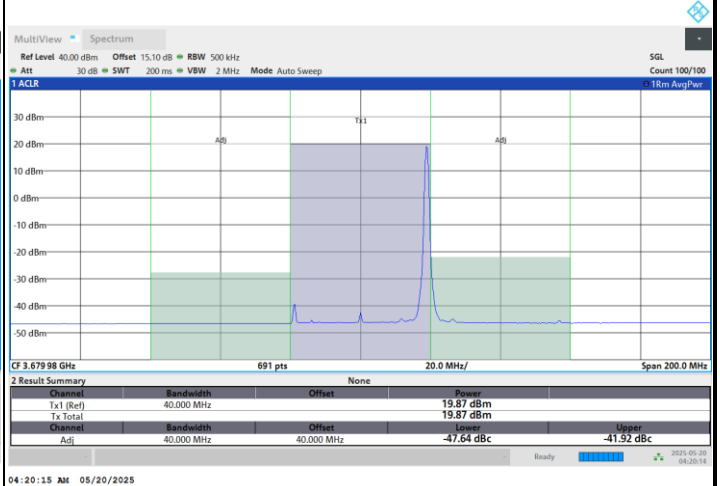
FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Highest Channel

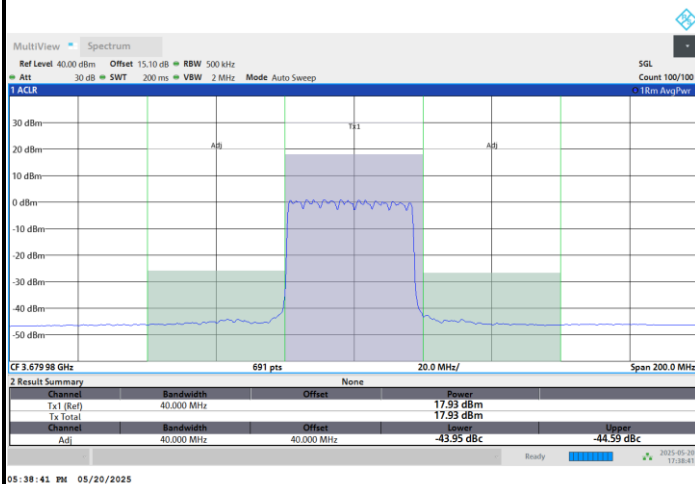
1RB0



1RBmax



Full RB

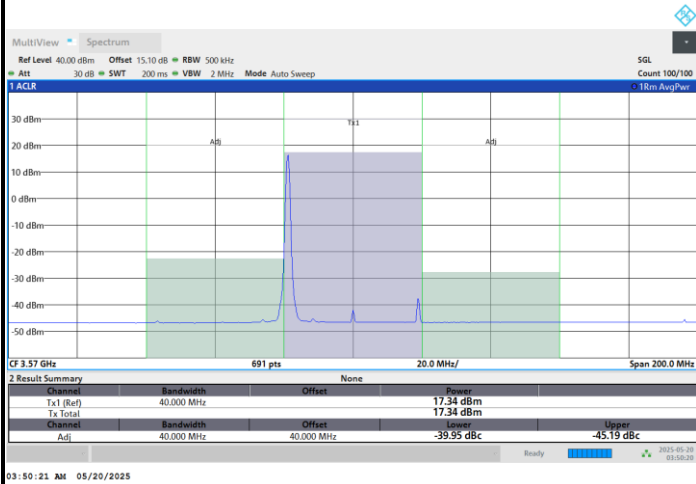




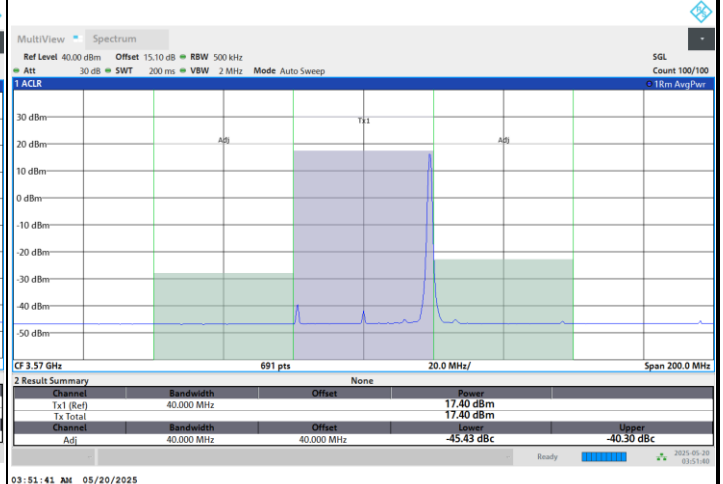
FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Lowest Channel

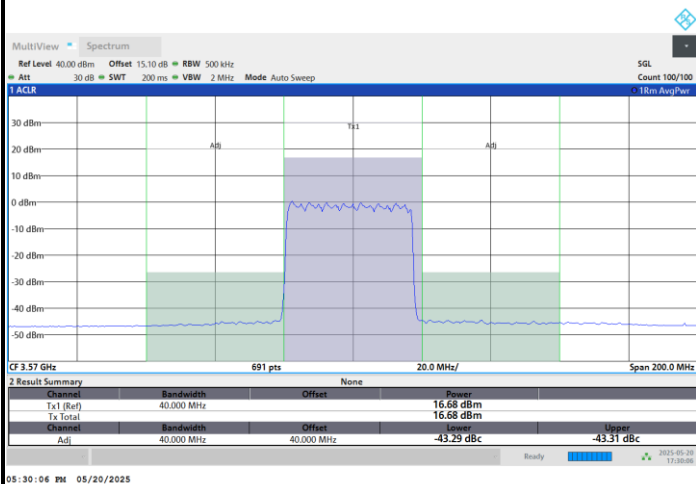
1RB0



1RBmax



Full RB

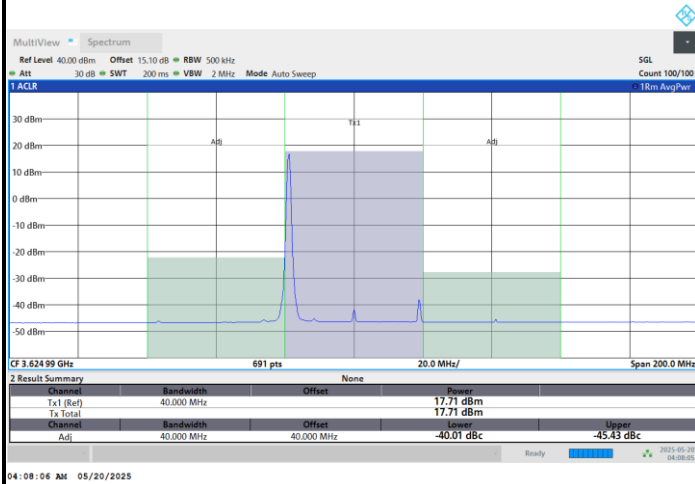




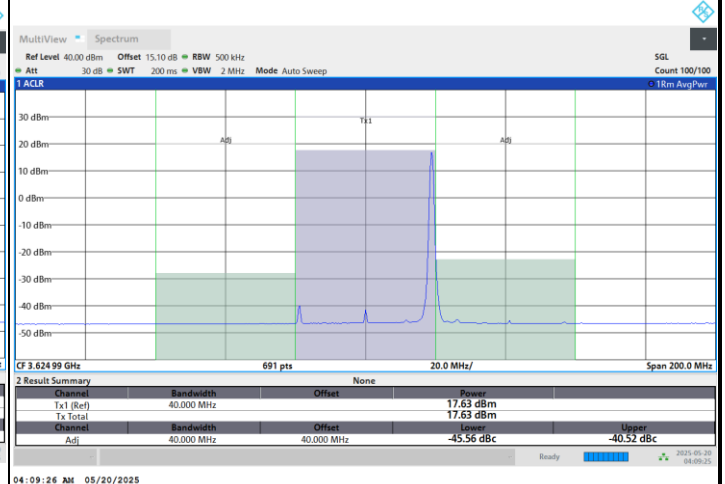
FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Middle Channel

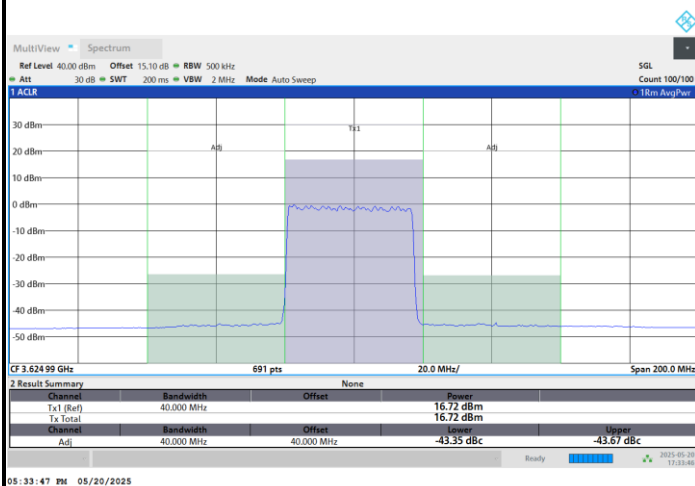
1RB0



1RBmax



Full RB

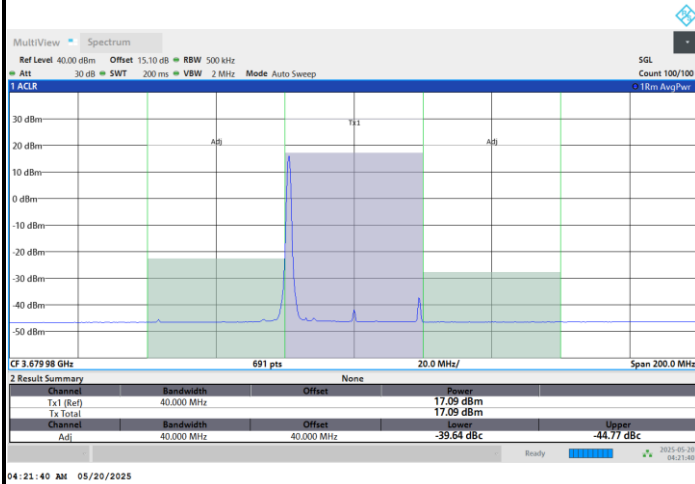




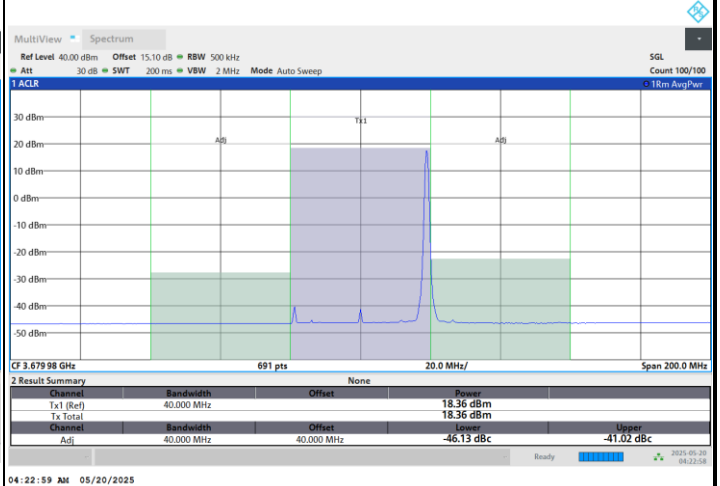
FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Highest Channel

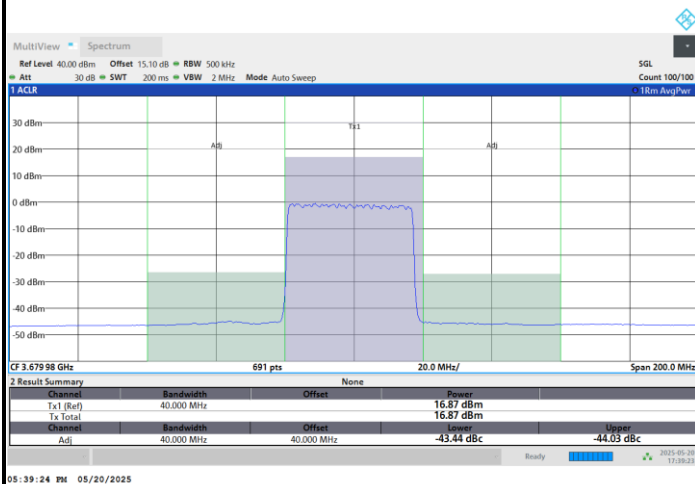
1RB0



1RBmax



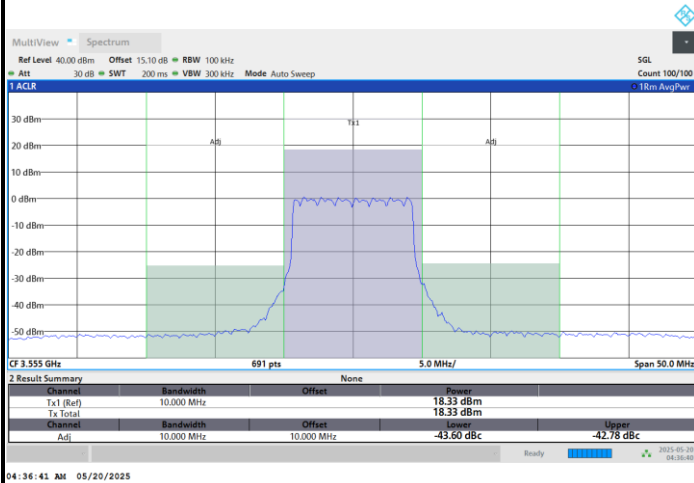
Full RB



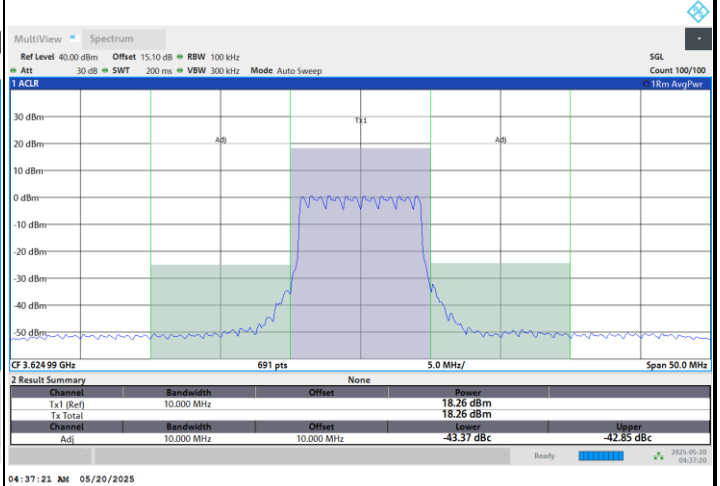


FR1 n48 / 10MHz / CP OFDM / QPSK / Full RB

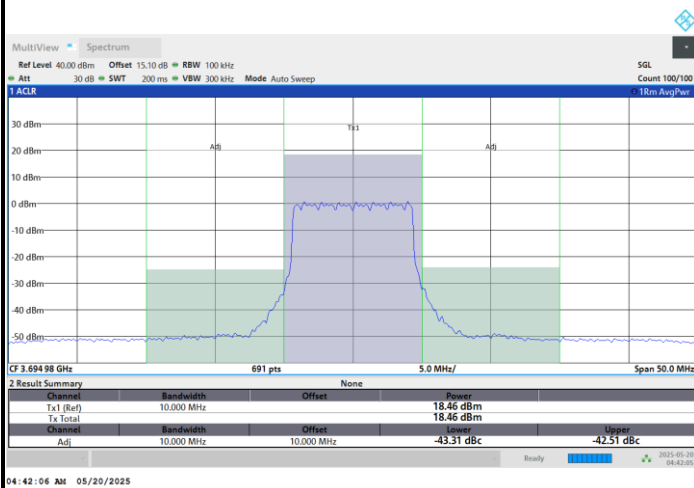
Lowest Channel



Middle Channel



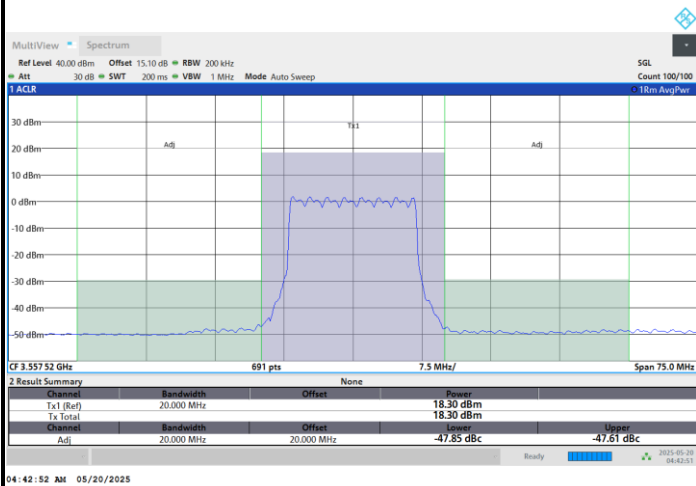
Highest Channel



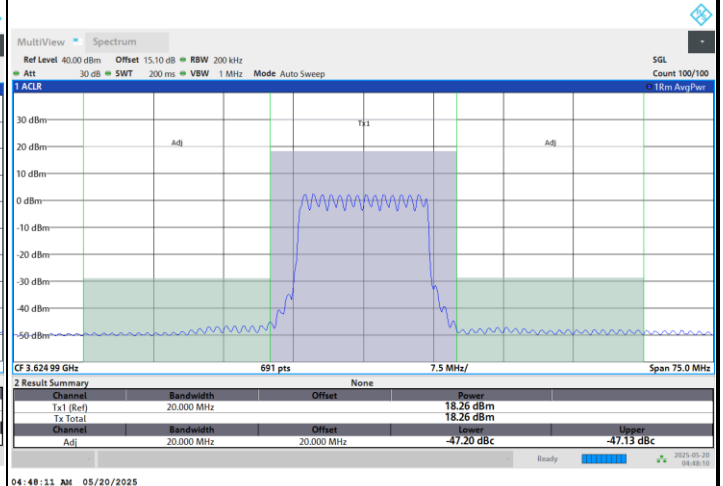


FR1 n48 / 15MHz / CP OFDM / QPSK / Full RB

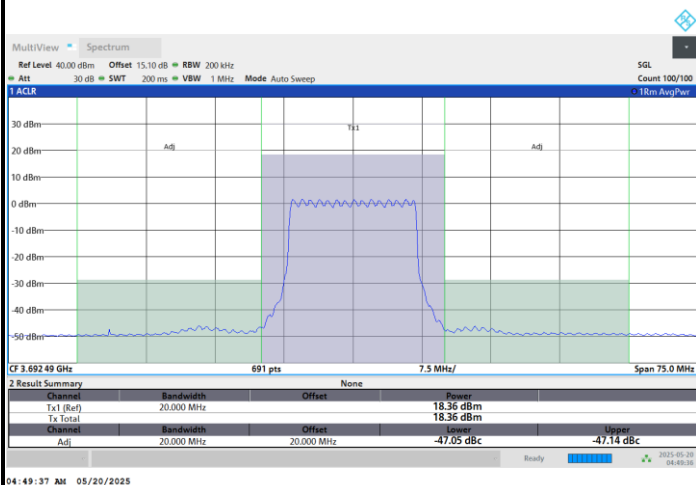
Lowest Channel



Middle Channel



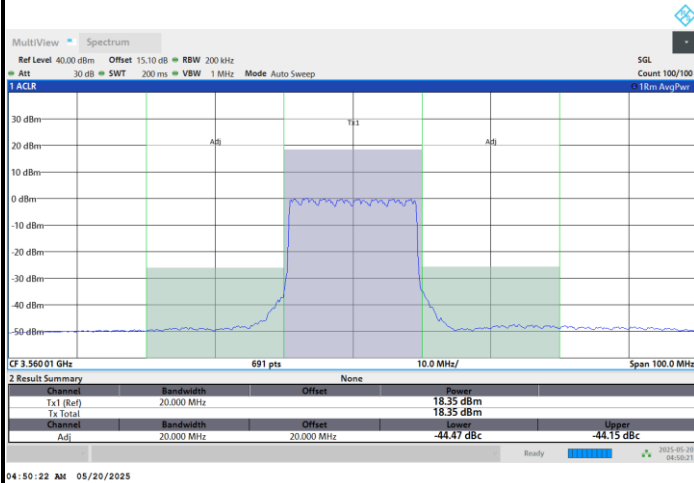
Highest Channel



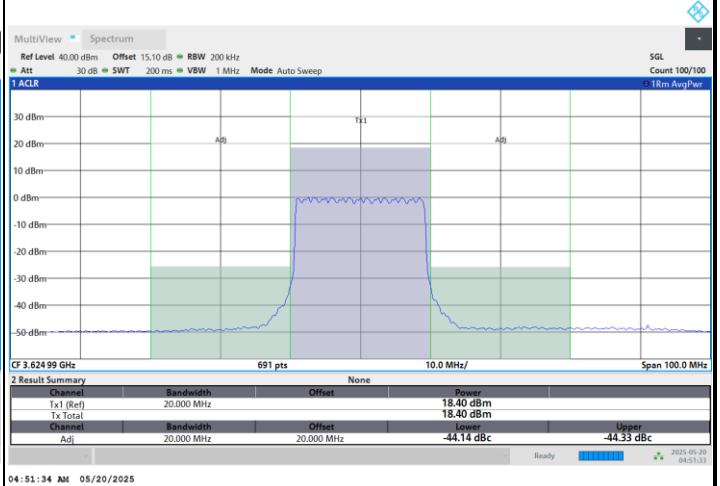


FR1 n48 / 20MHz / CP OFDM / QPSK / Full RB

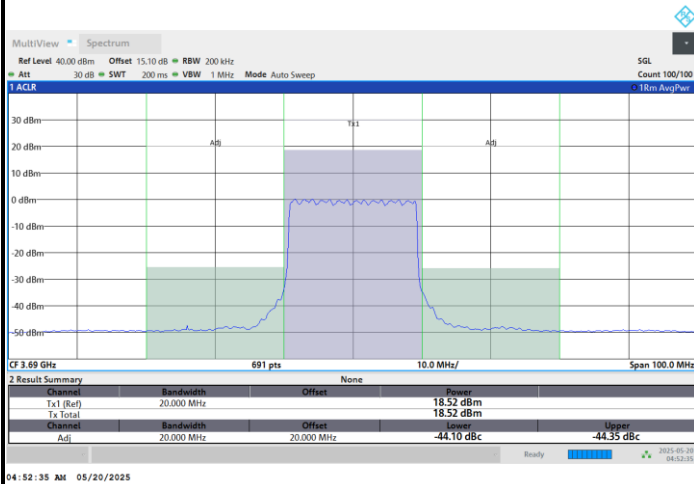
Lowest Channel



Middle Channel



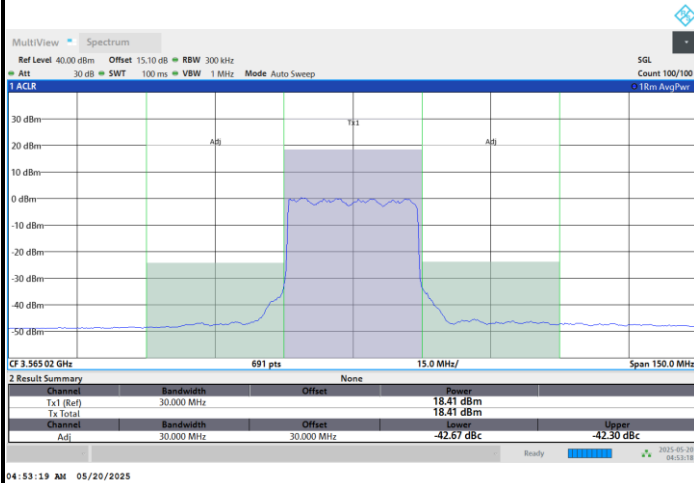
Highest Channel



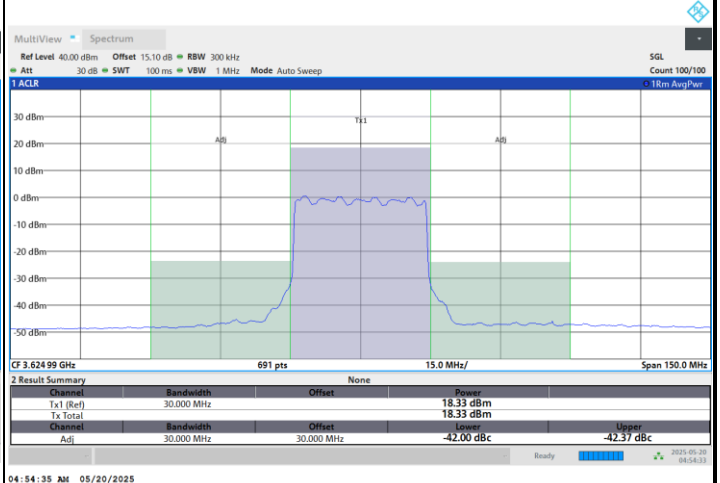


FR1 n48 / 30MHz / CP OFDM / QPSK / Full RB

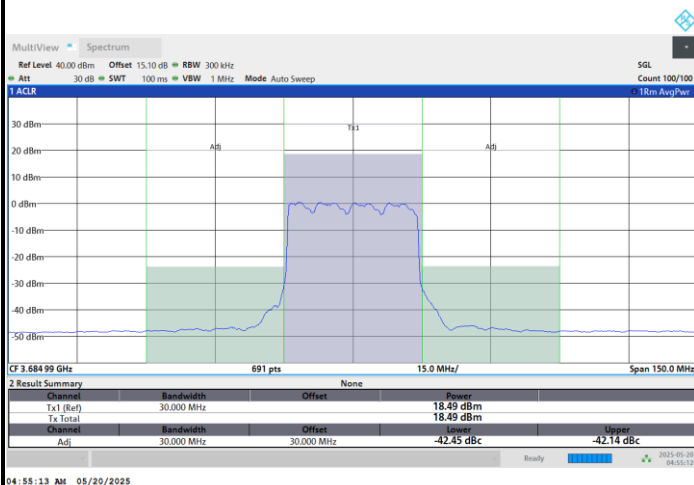
Lowest Channel



Middle Channel



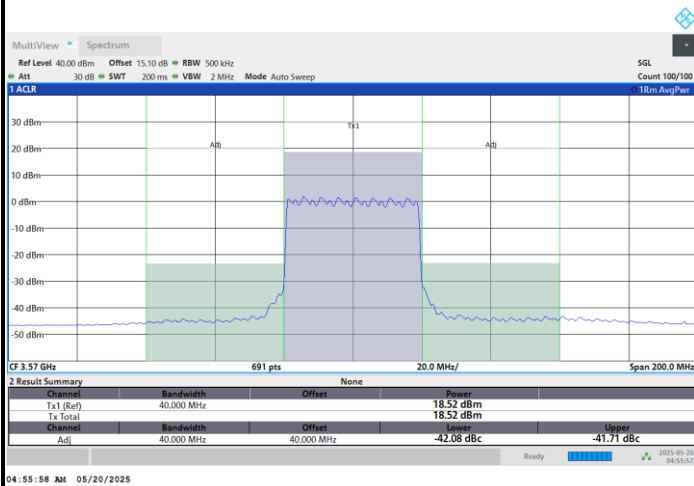
Highest Channel



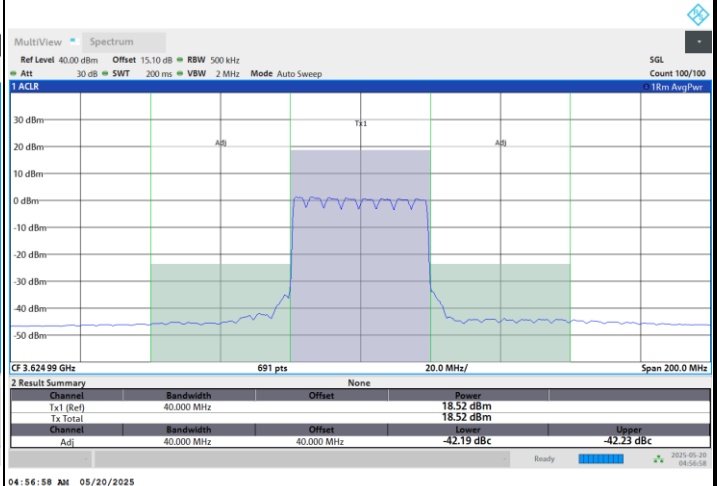


FR1 n48 / 40MHz / CP OFDM / QPSK / Full RB

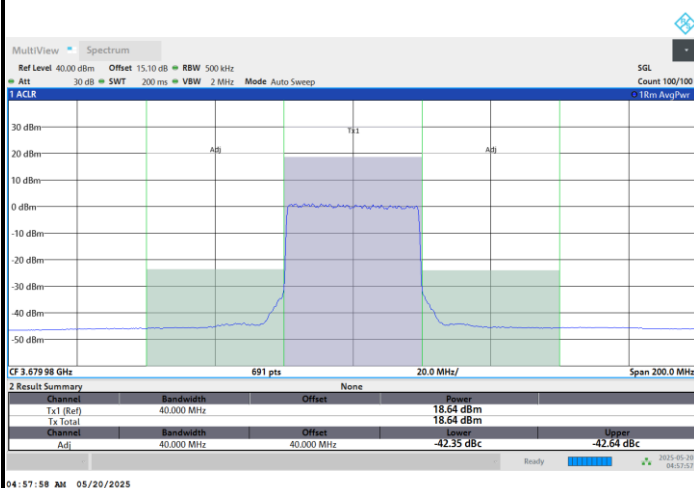
Lowest Channel



Middle Channel



Highest Channel

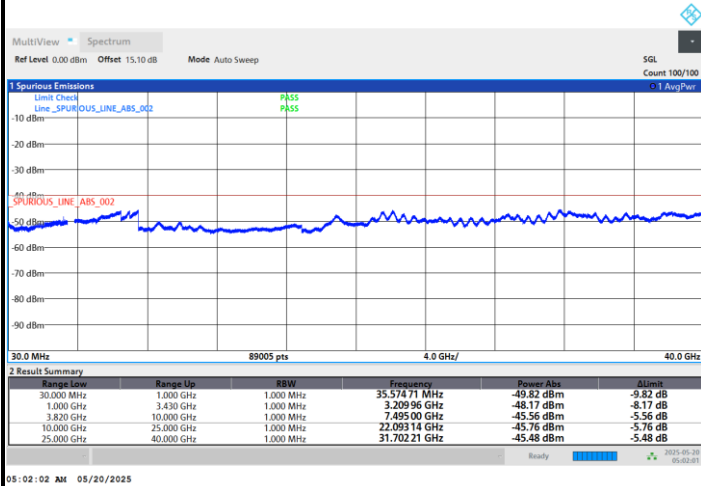




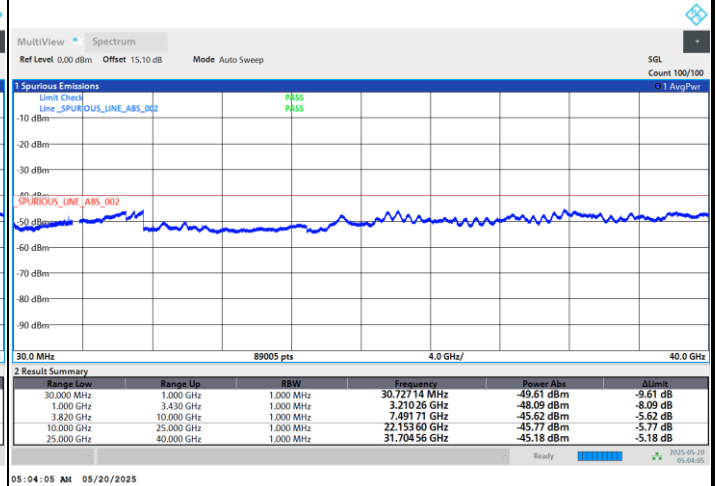
Conducted Spurious Emission

FR1 n48 / 10MHz / DFT-S OFDM / QPSK / 1RB1

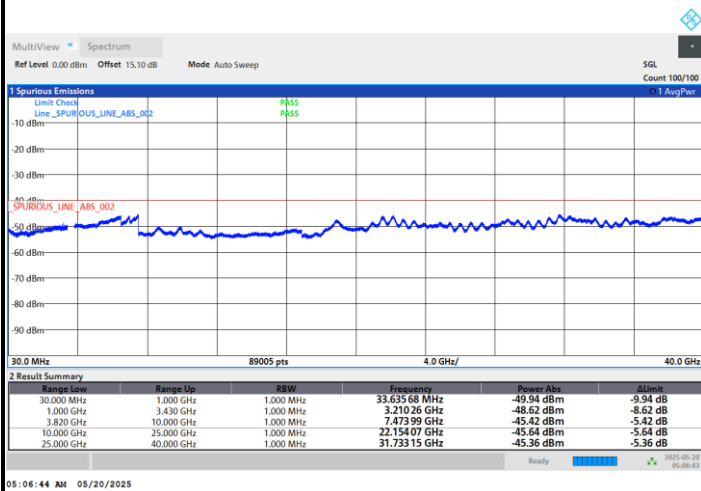
Lowest Channel



Middle Channel



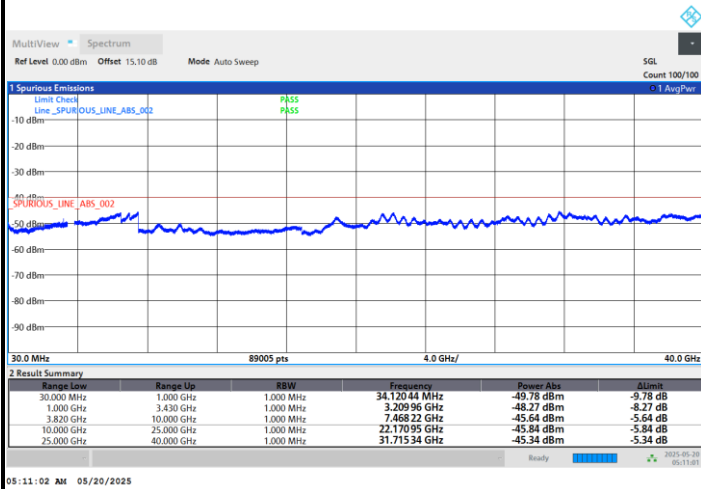
Highest Channel





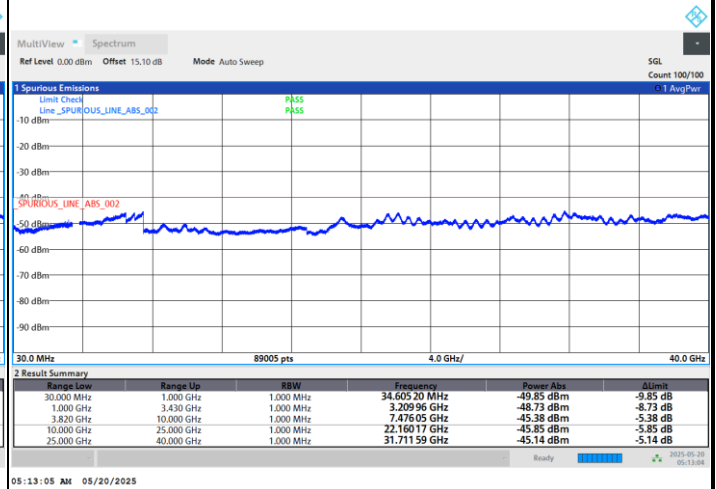
FR1 n48 / 15MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



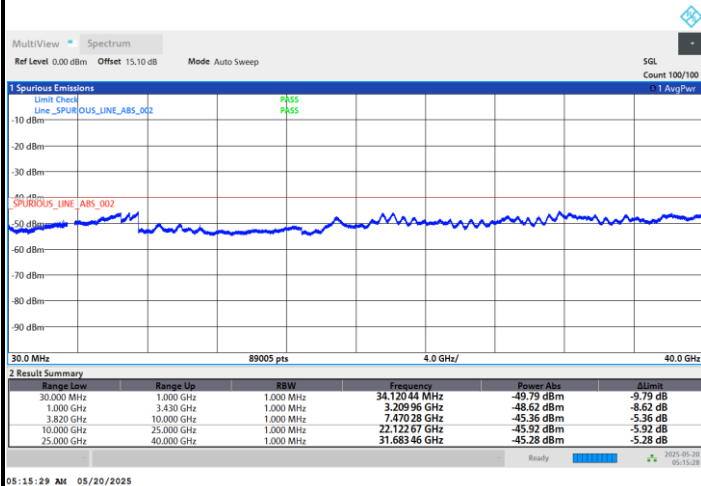
05:11:02 AM 05/20/2025

Middle Channel



05:13:05 AM 05/20/2025

Highest Channel

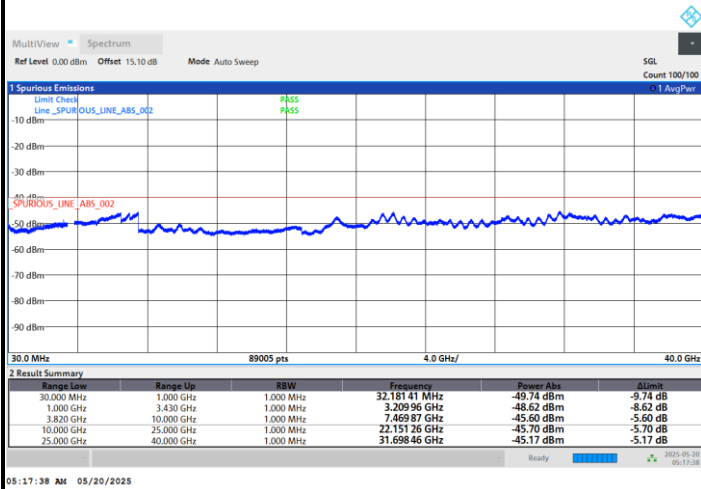


05:15:29 AM 05/20/2025



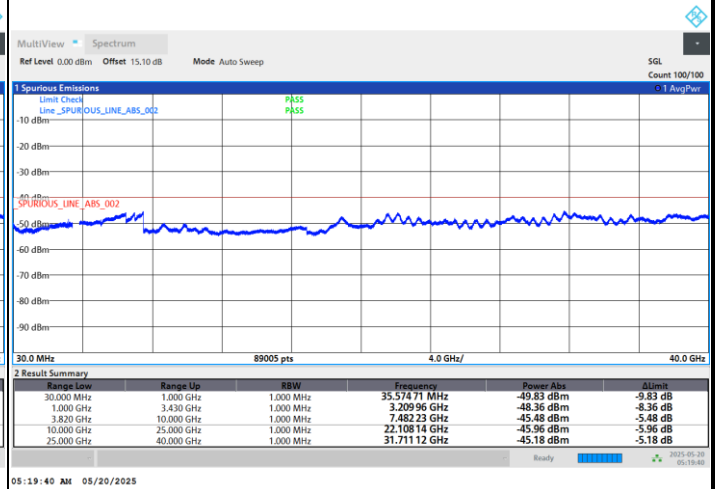
FR1 n48 / 20MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



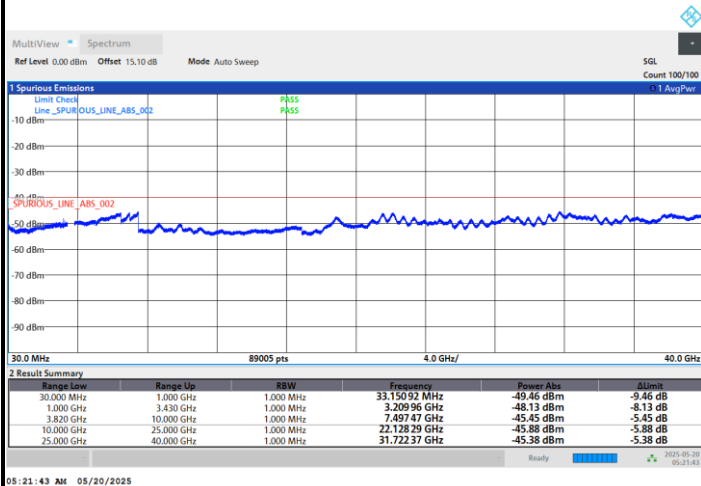
05:17:38 AM 05/20/2025

Middle Channel



05:19:40 AM 05/20/2025

Highest Channel

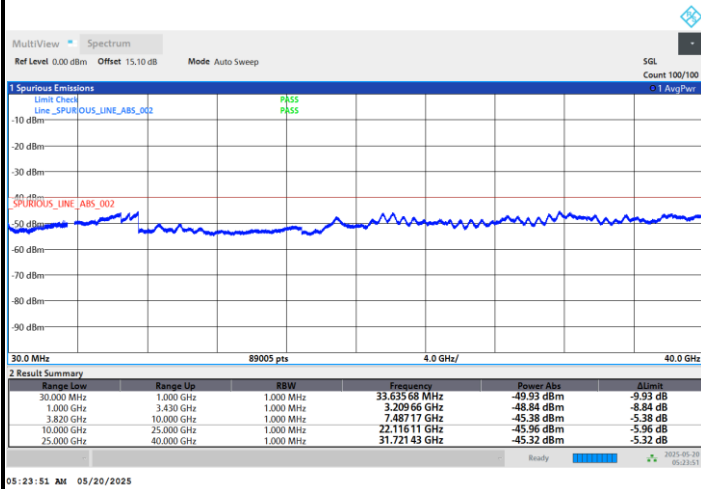


05:21:43 AM 05/20/2025



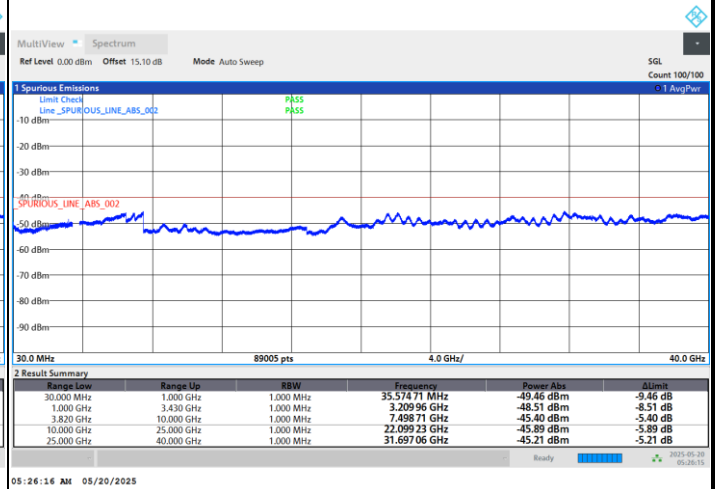
FR1 n48 / 30MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



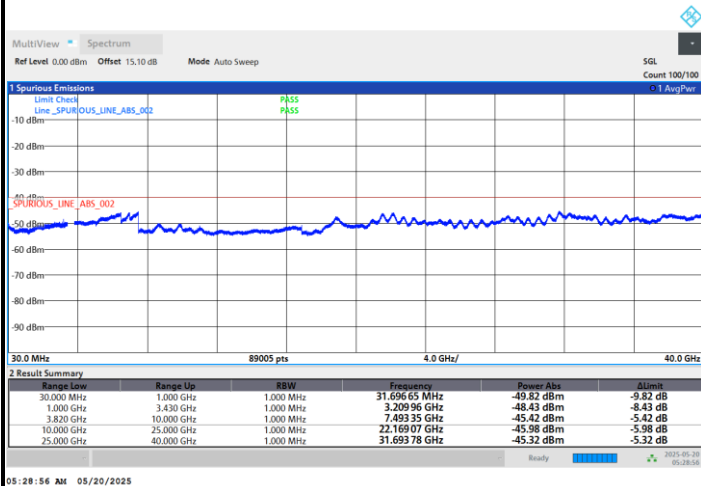
05:23:51 AM 05/20/2025

Middle Channel



05:26:16 AM 05/20/2025

Highest Channel

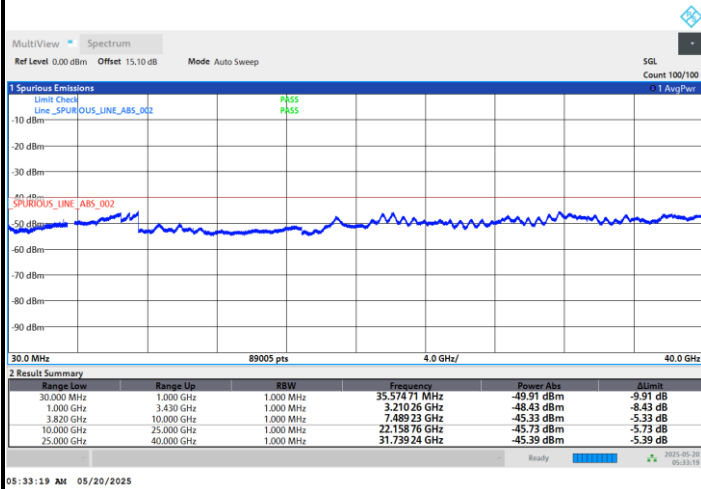


05:28:56 AM 05/20/2025

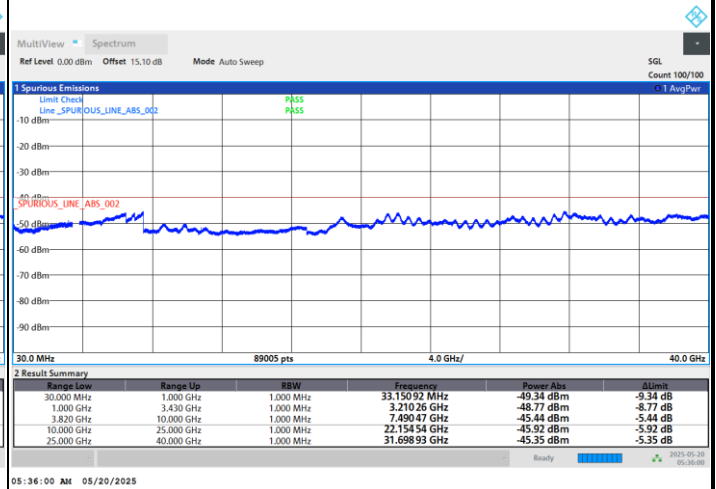


FR1 n48 / 40MHz / DFT-S OFDM / QPSK / 1RB1

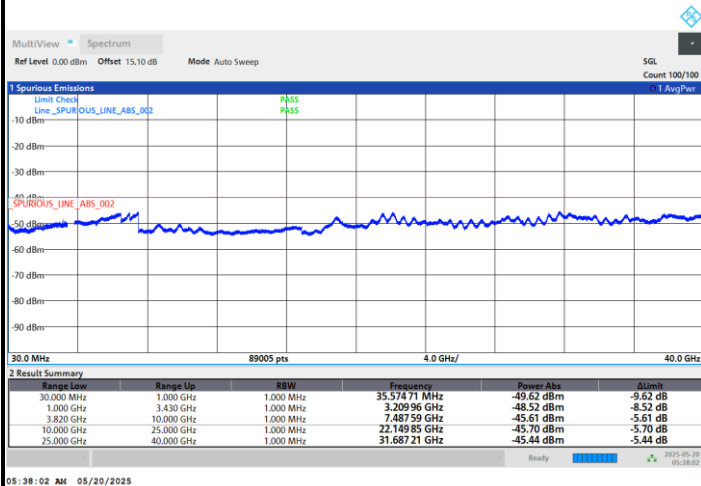
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n48 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0007	

Note:

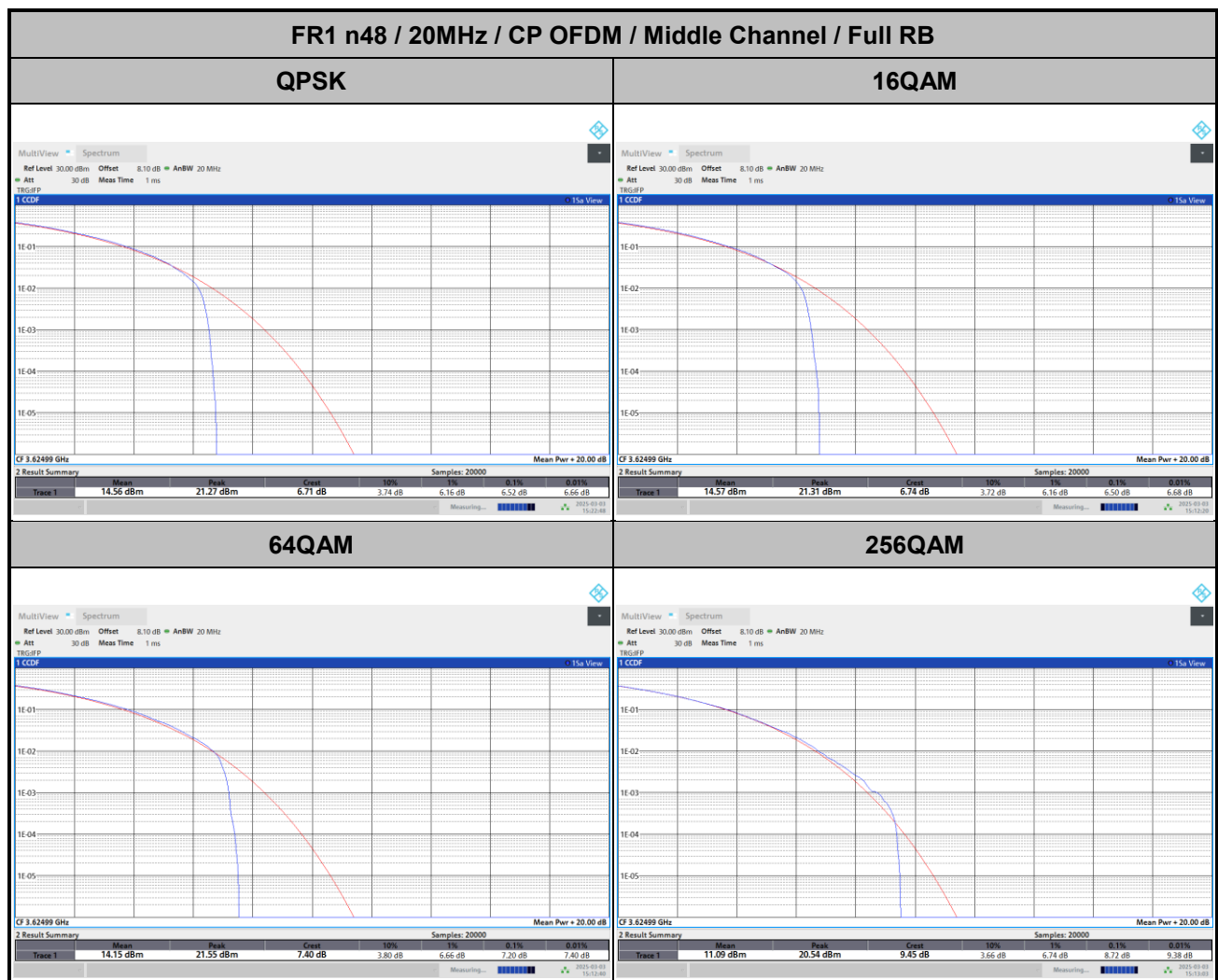
1. Normal Voltage = 3.3 V. ; Minimum Voltage= 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



FR1 n48
<MIMO Mode>
MIMO <Ant. 0+2> (Ant. 0)

Peak-to-Average Ratio

Mode	FR1 n48 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.52	6.50	7.20	8.72	PASS



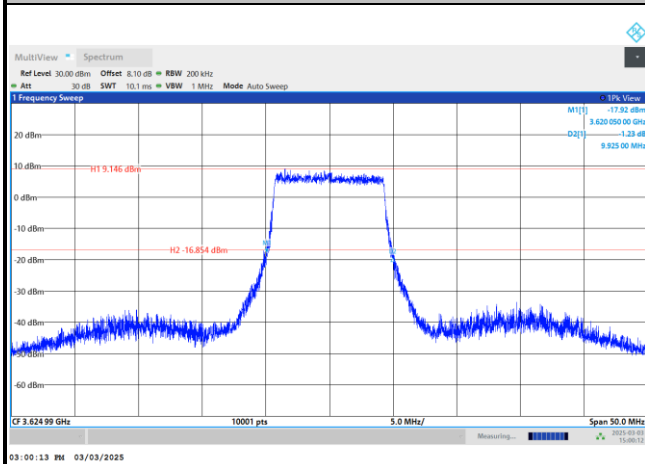
**26dB Bandwidth**

Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.92	10.08	15.55	15.82	20.37	20.46	30.94	30.78
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.32	9.86	15.73	15.67	20.34	20.14	30.76	30.59
BW	40MHz							
Mod.	QPSK	16QAM						
Middle CH	40.81	40.87						
Mod.	64QAM	256QAM						
Middle CH	40.94	40.86						

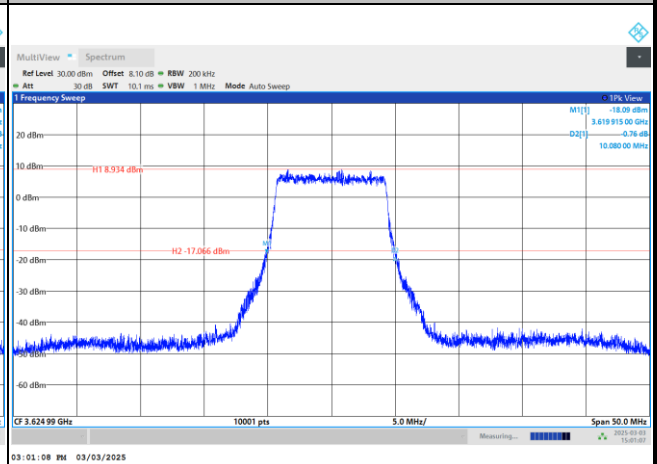


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

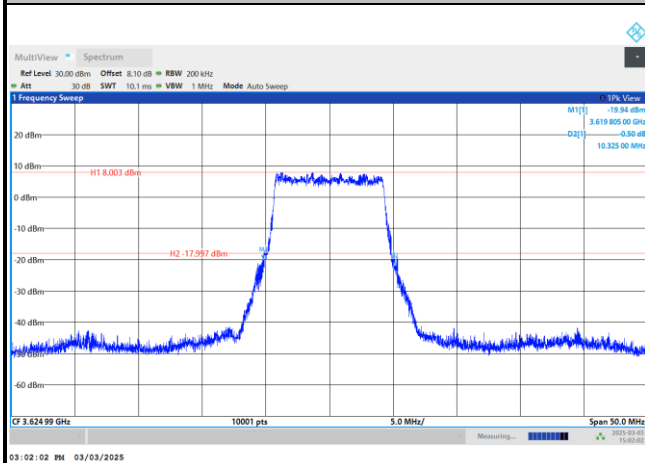
QPSK



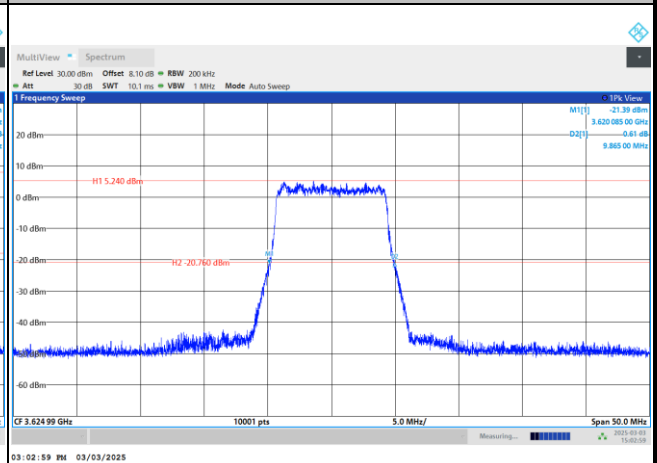
16QAM



64QAM



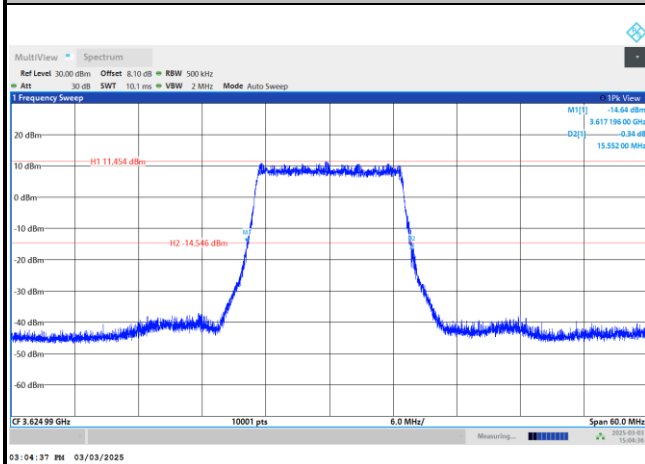
256QAM



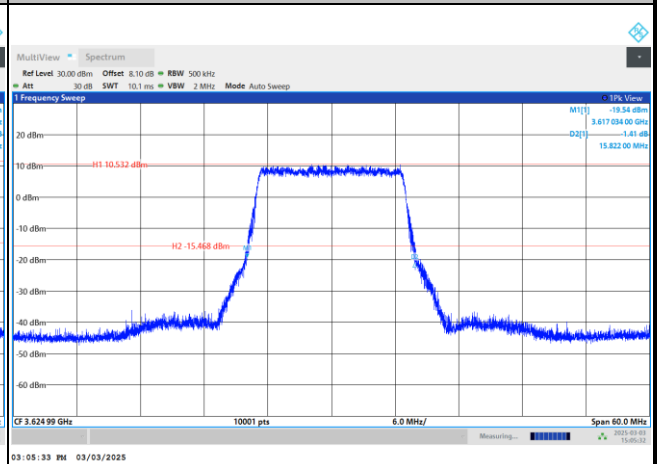


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

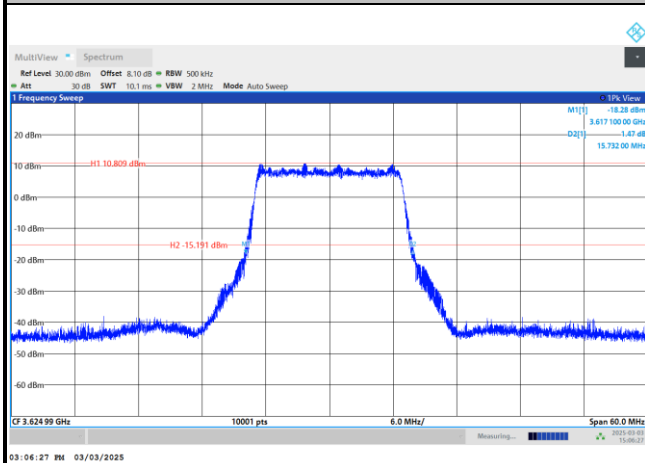
QPSK



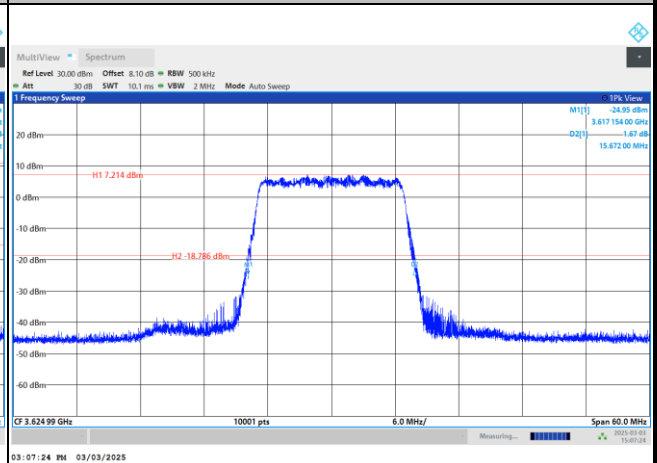
16QAM



64QAM



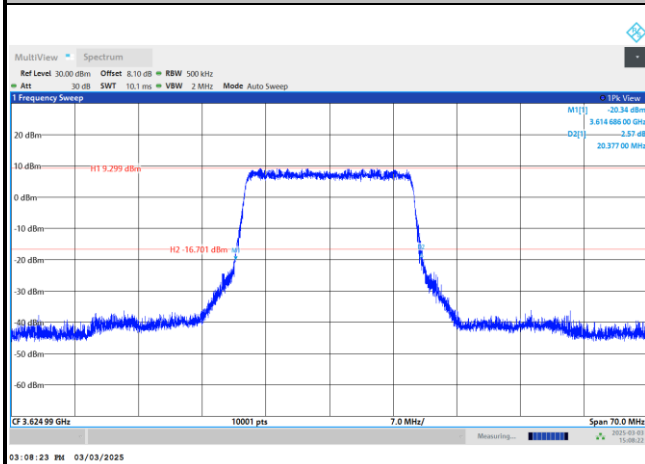
256QAM



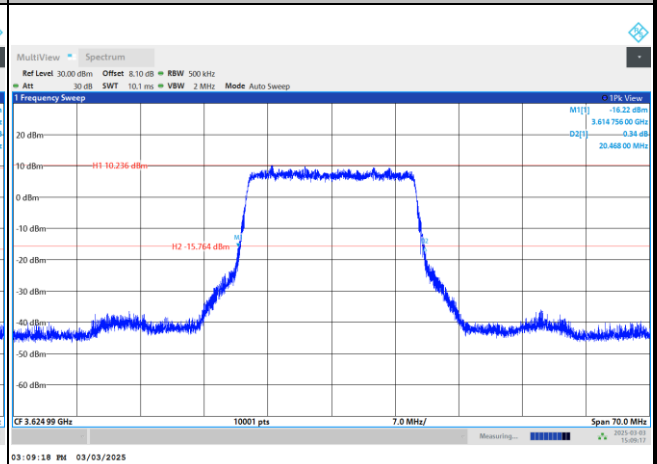


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

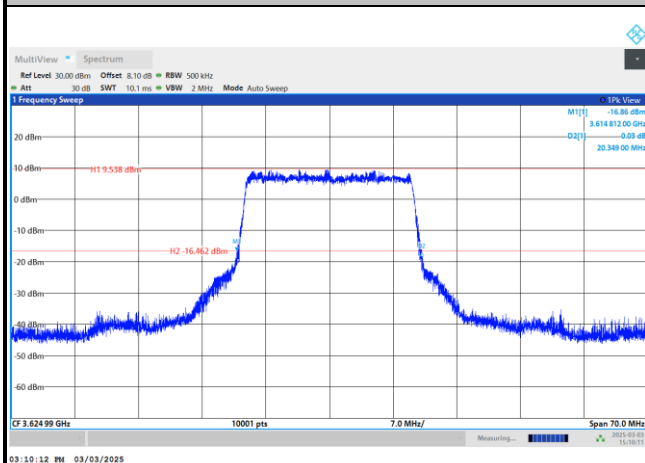
QPSK



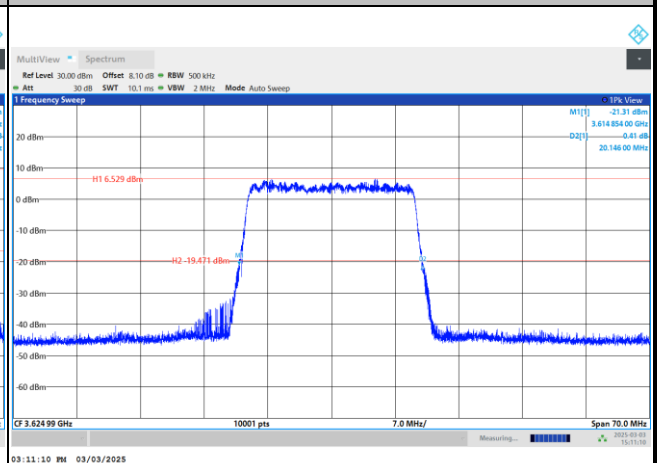
16QAM



64QAM



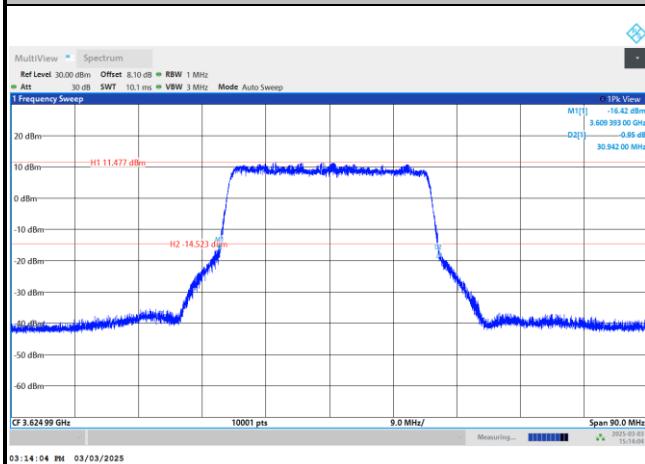
256QAM



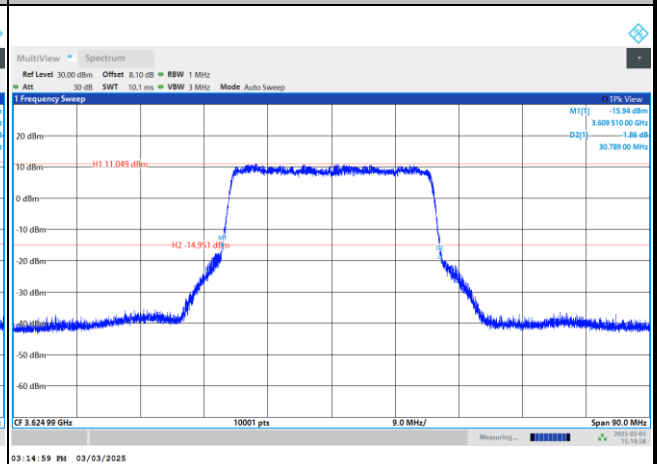


FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

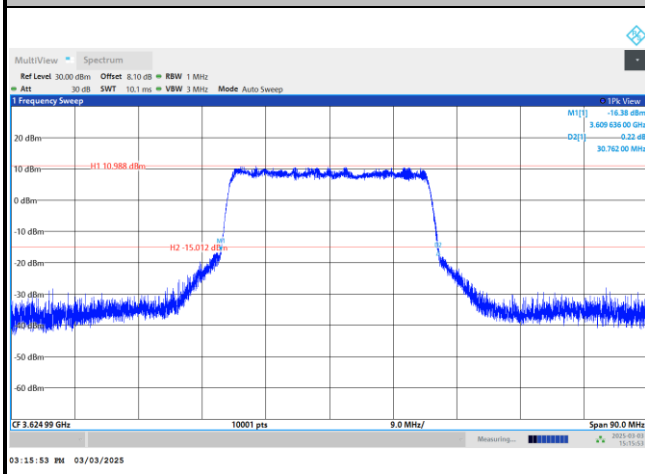
QPSK



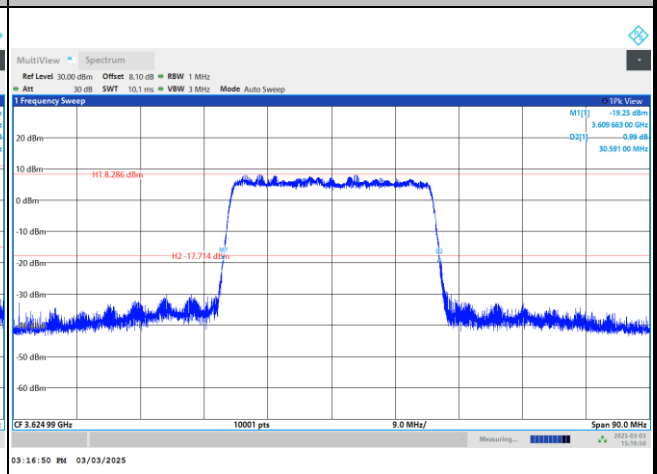
16QAM



64QAM



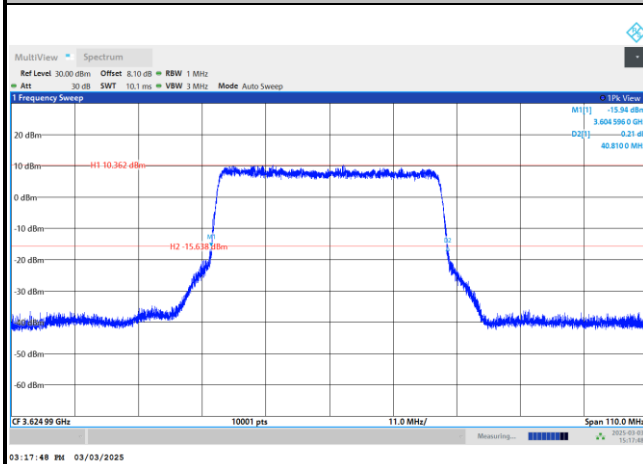
256QAM



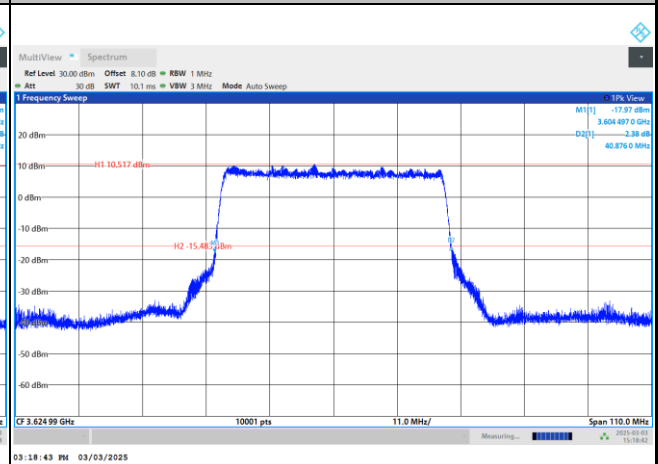


FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

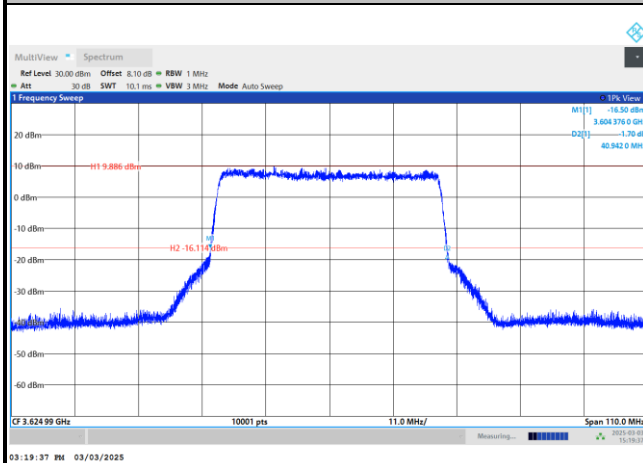
QPSK



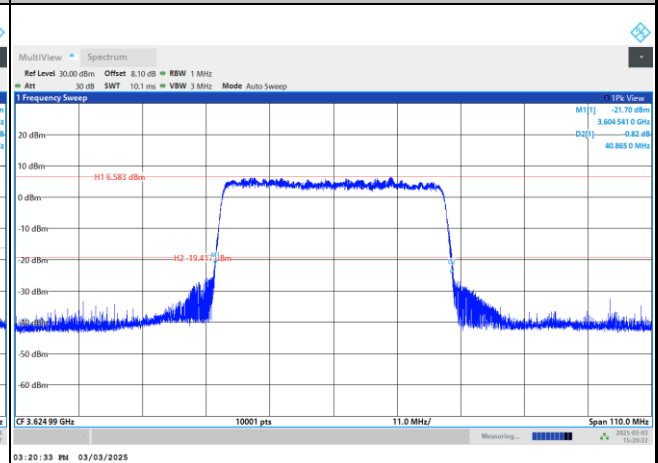
16QAM



64QAM



256QAM



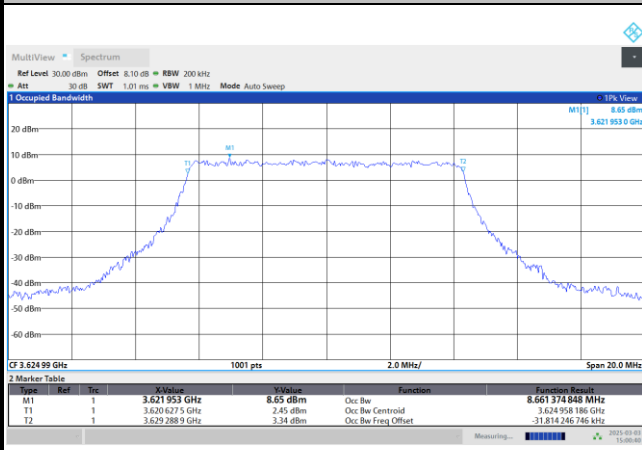
**Occupied Bandwidth**

Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.66	8.67	13.78	13.82	18.34	18.40	28.17	28.33
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.63	8.64	13.81	13.75	18.34	18.29	28.17	28.29
BW	40MHz							
Mod.	QPSK	16QAM						
Middle CH	38.09	38.14						
Mod.	64QAM	256QAM						
Middle CH	38.14	38.02						

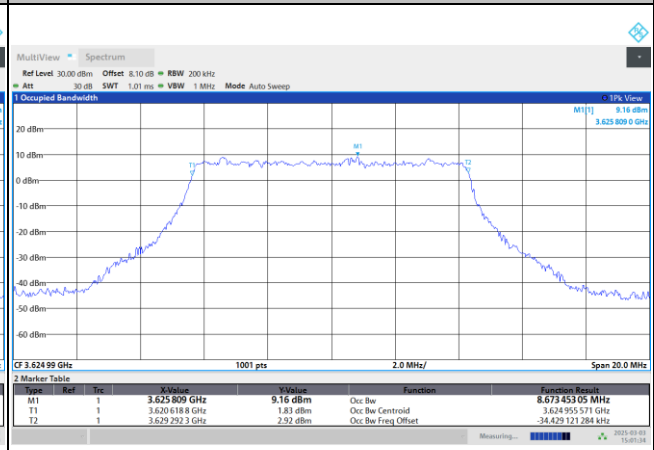


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

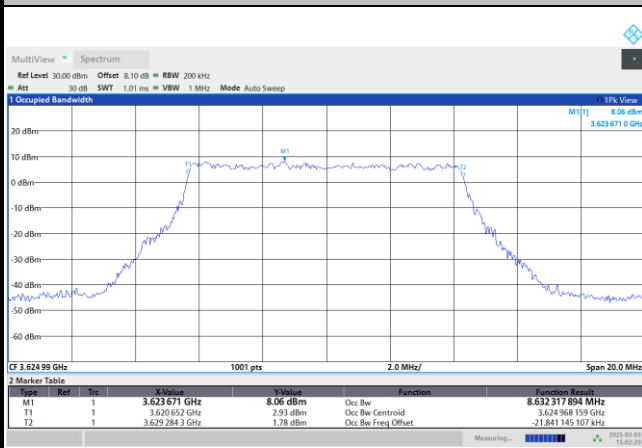
QPSK



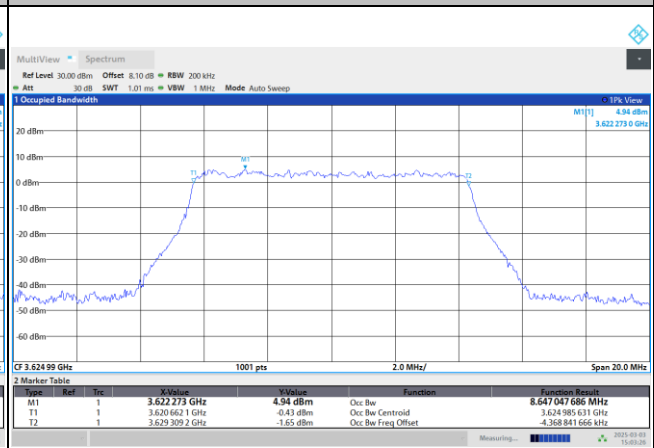
16QAM



64QAM



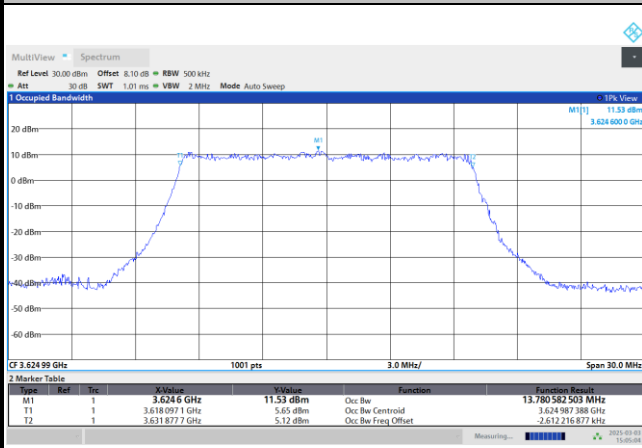
256QAM





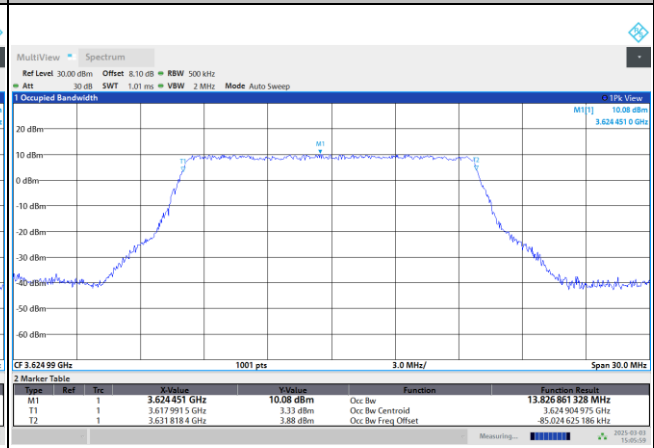
FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



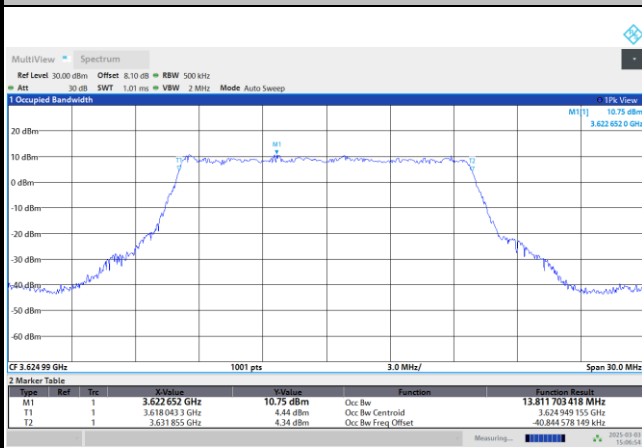
03:05:05 PM 03/03/2025

16QAM



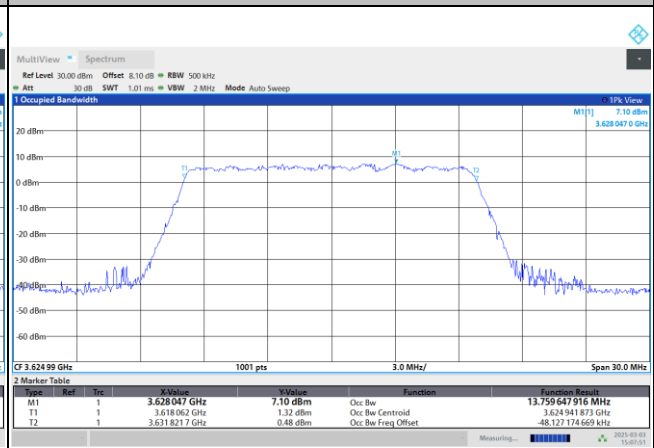
03:06:00 PM 03/03/2025

64QAM



03:06:55 PM 03/03/2025

256QAM

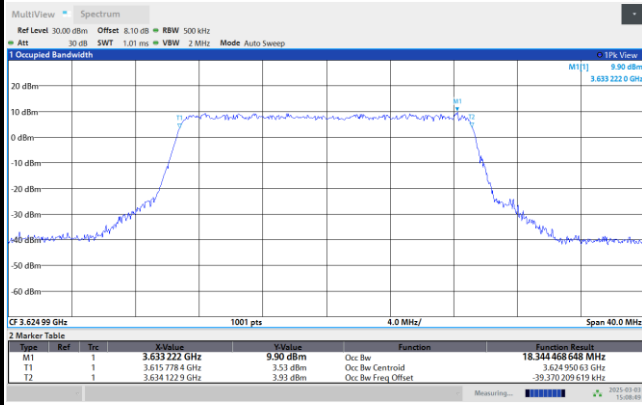


03:07:52 PM 03/03/2025

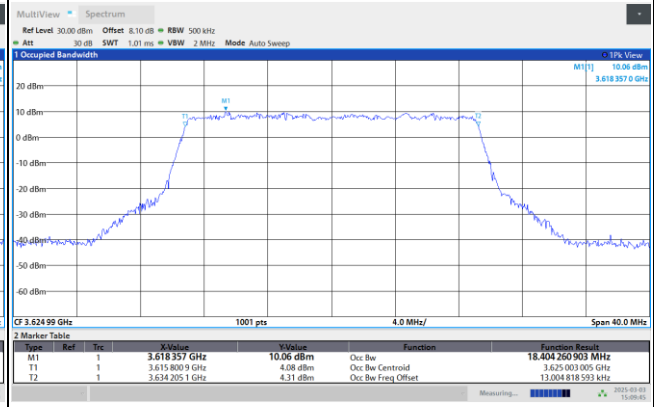


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

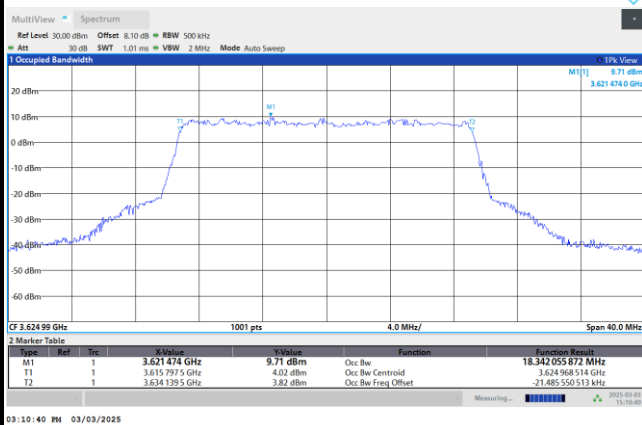
QPSK



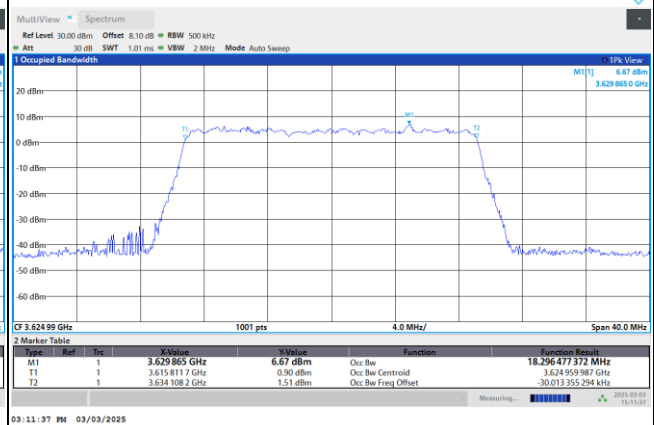
16QAM



64QAM



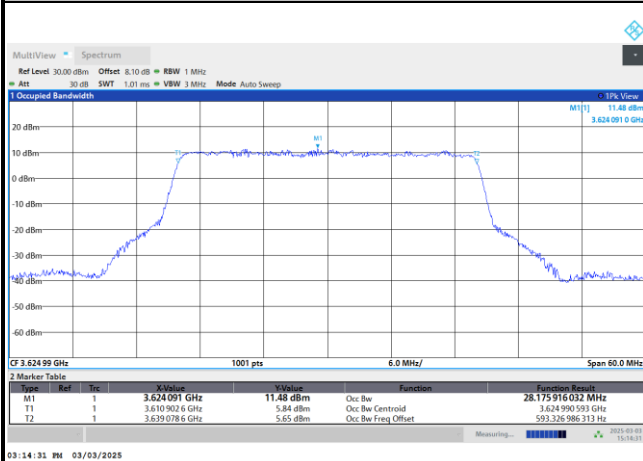
256QAM



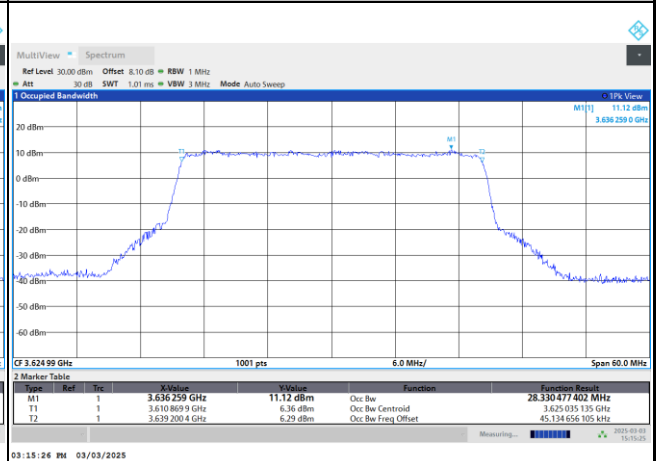


FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

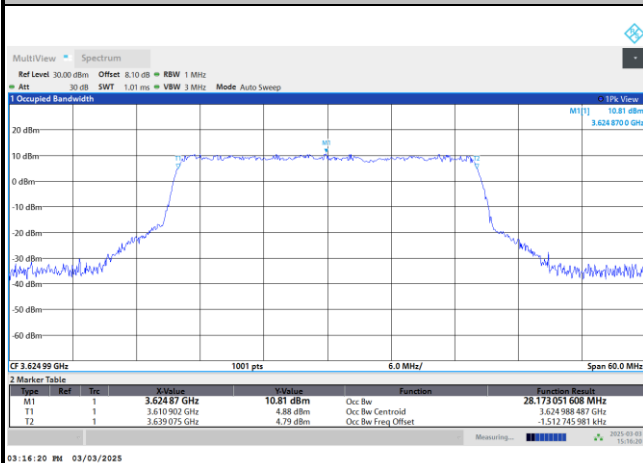
QPSK



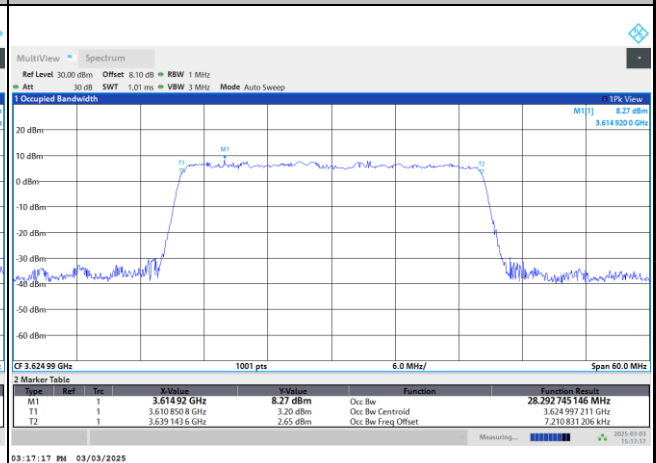
16QAM



64QAM



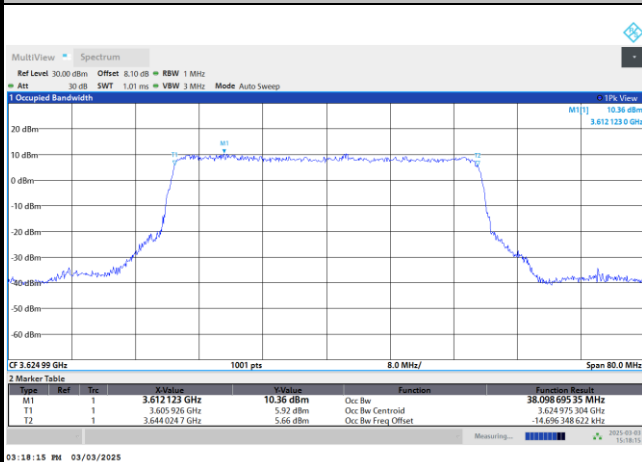
256QAM



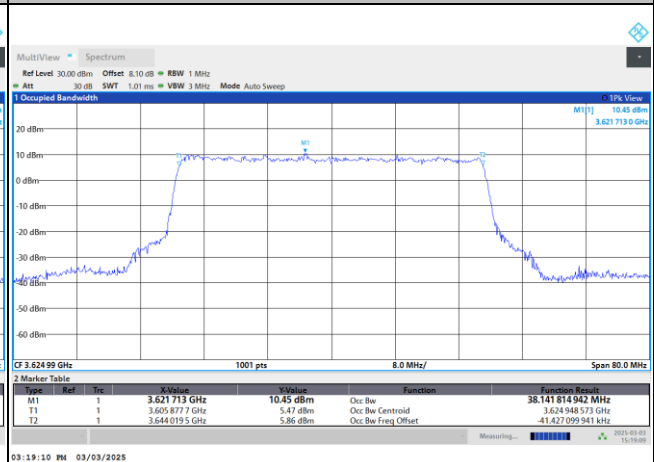


FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

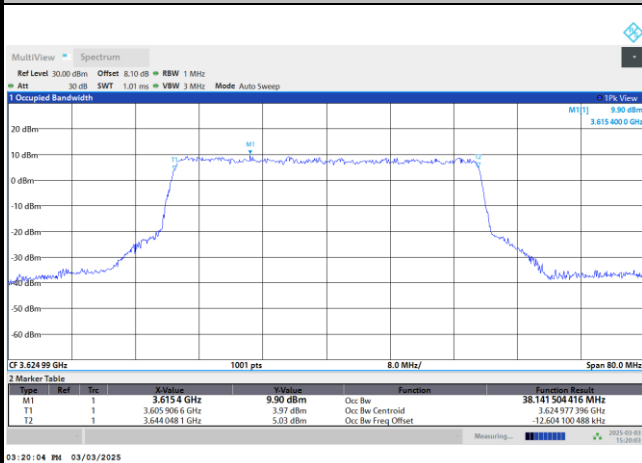
QPSK



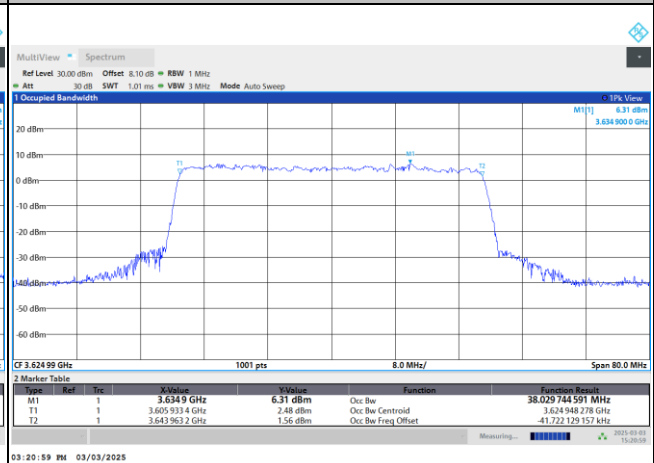
16QAM



64QAM



256QAM





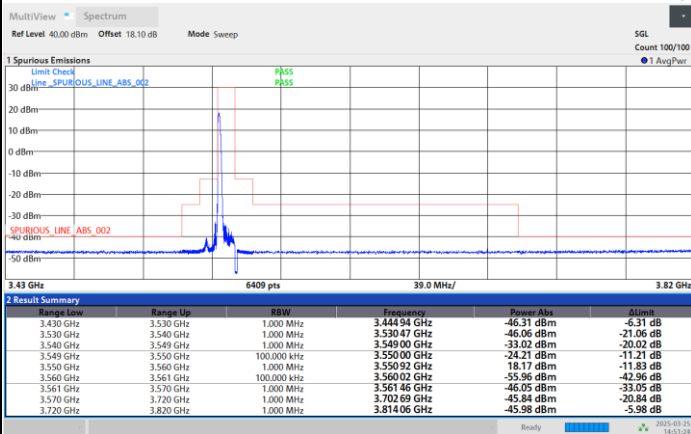
Unwanted Emission (MASK)

FR1 n48 / 10MHz / CP OFDM / QPSK

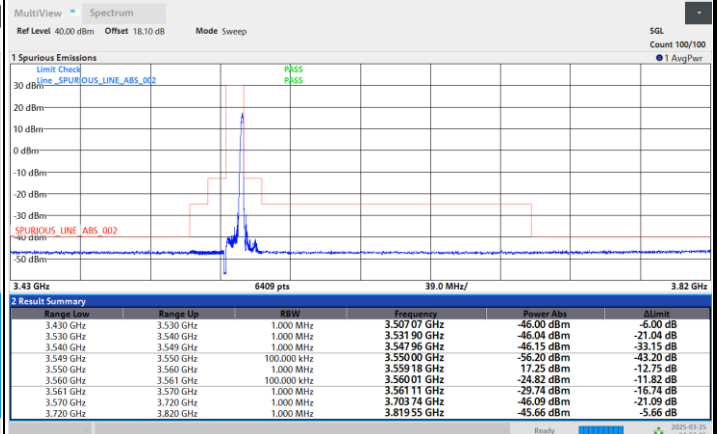
Lowest Channel

1RB0

1RBmax

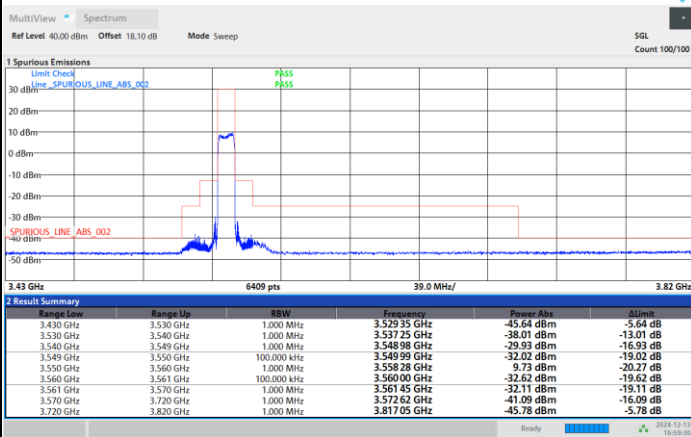


02:51:25 PM 03/25/2025



02:52:06 PM 03/25/2025

Full RB



04:59:31 PM 12/13/2024