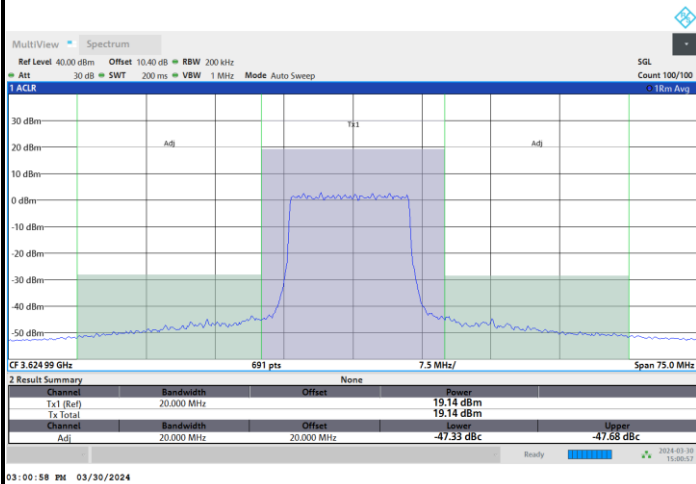




FR1 n48 / 15MHz / DFT-S OFDM / 64QAM

Middle Channel

Full RB

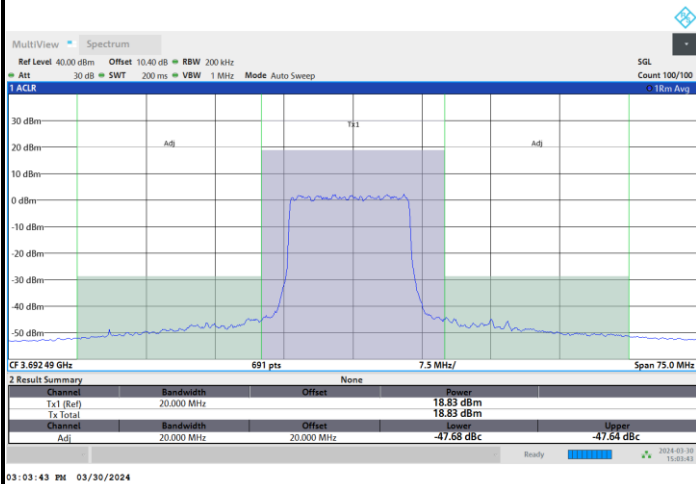




FR1 n48 / 15MHz / DFT-S OFDM / 64QAM

Highest Channel

Full RB

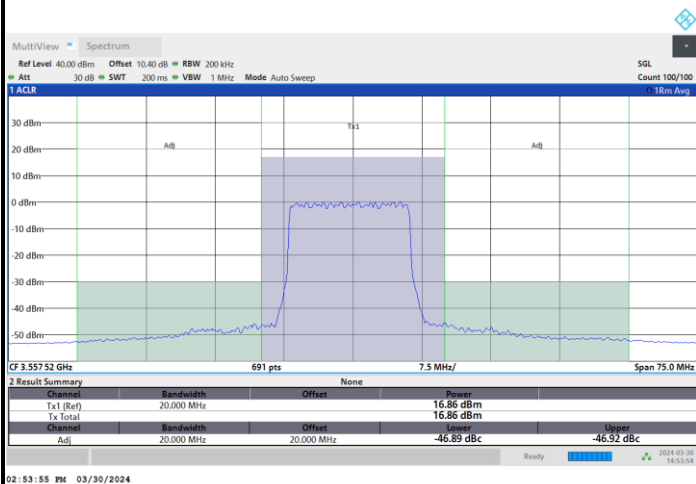




FR1 n48 / 15MHz / DFT-S OFDM / 256QAM

Lowest Channel

Full RB





FR1 n48 / 15MHz / DFT-S OFDM / 256QAM

Middle Channel

Full RB

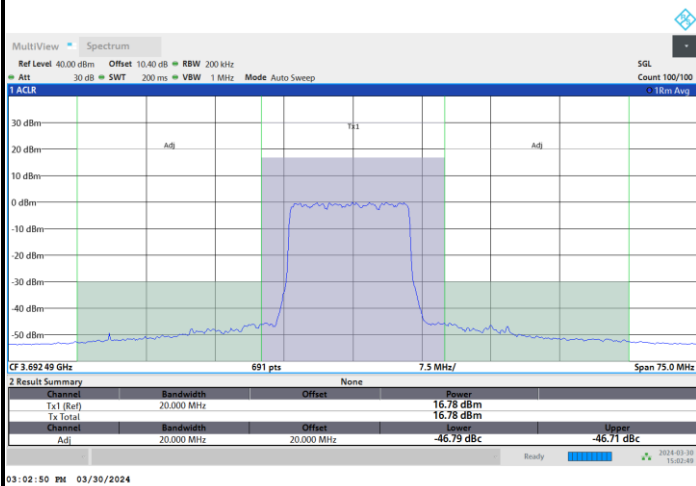




FR1 n48 / 15MHz / DFT-S OFDM / 256QAM

Highest Channel

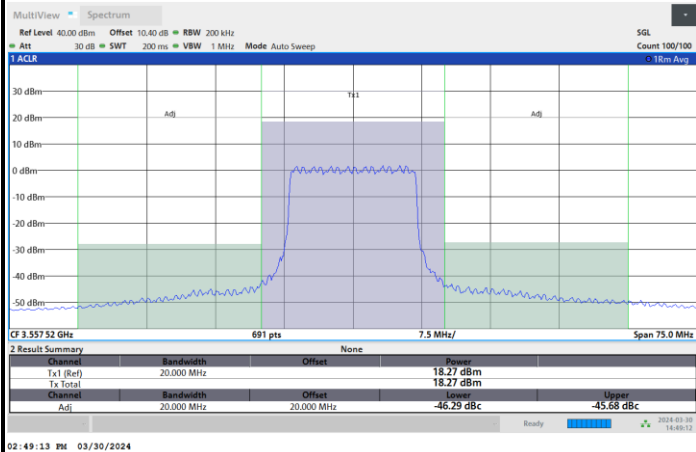
Full RB



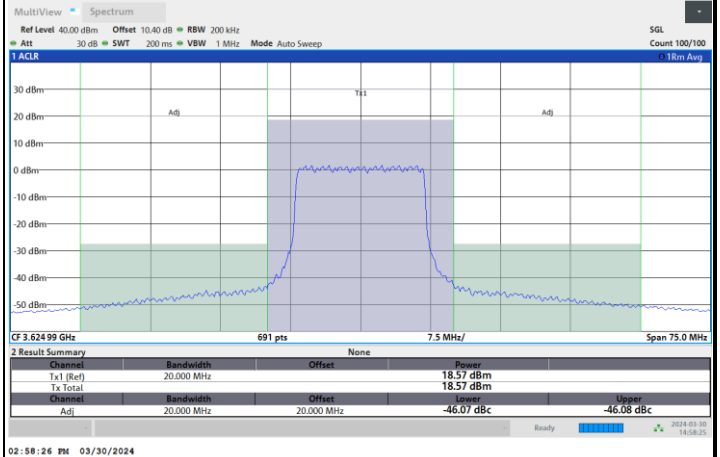


FR1 n48 / 15MHz / CP OFDM / QPSK / Full RB

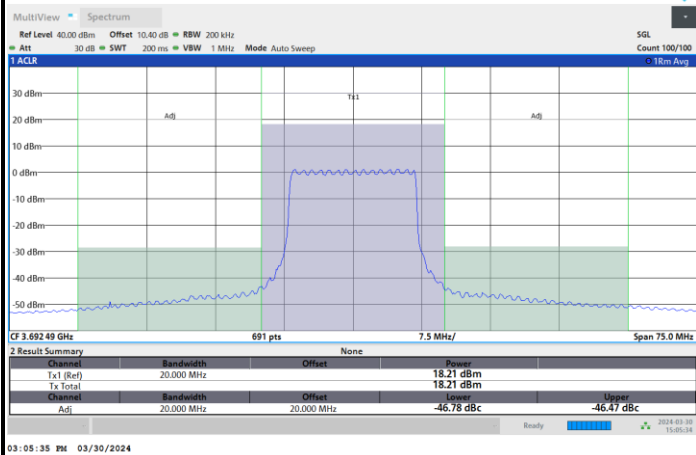
Lowest Channel



Middle Channel



Highest Channel

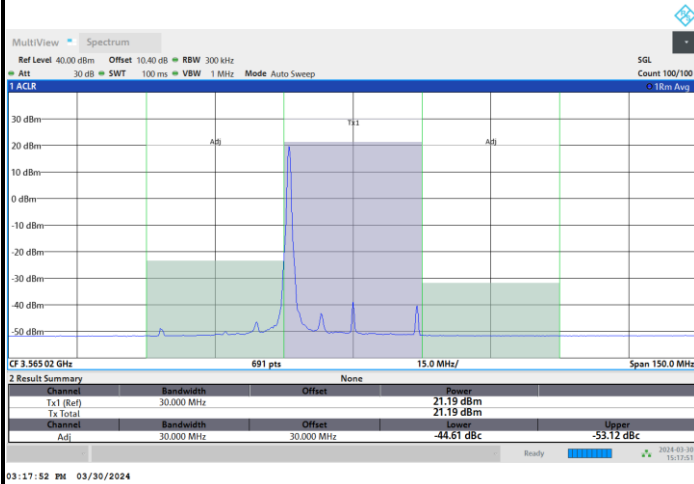




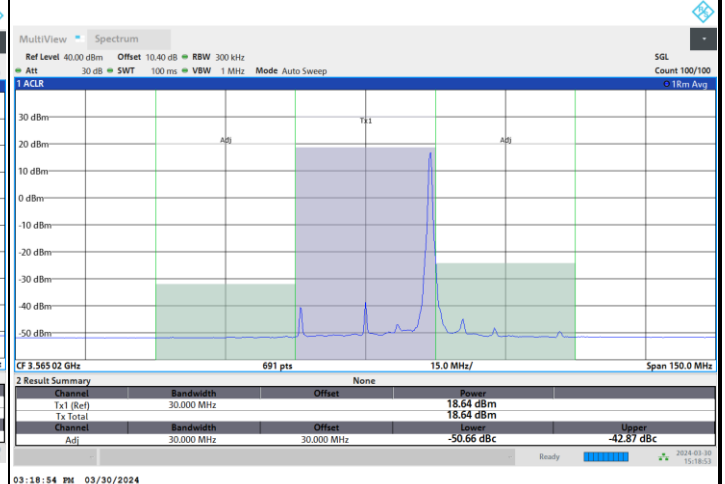
FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

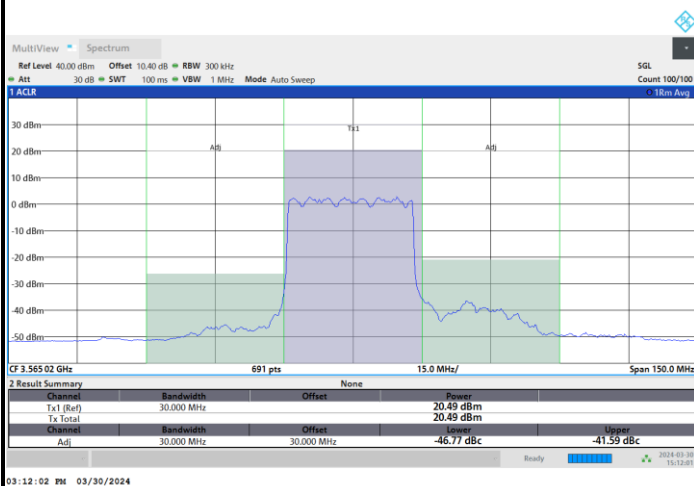
1RB0



1RBmax



Full RB





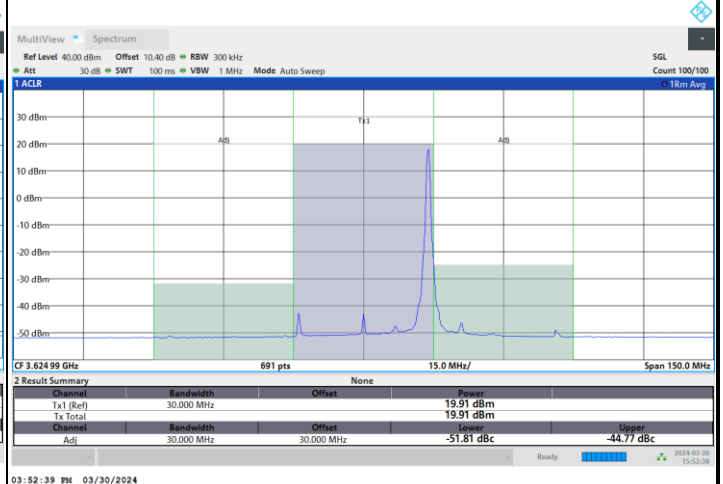
FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

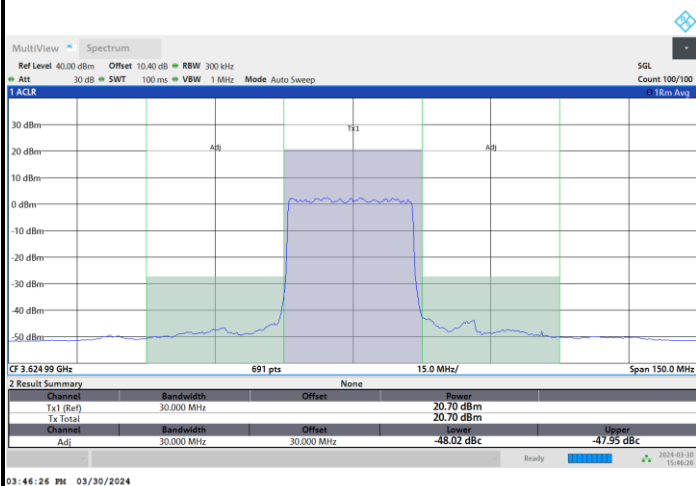
1RB0



1RBmax



Full RB

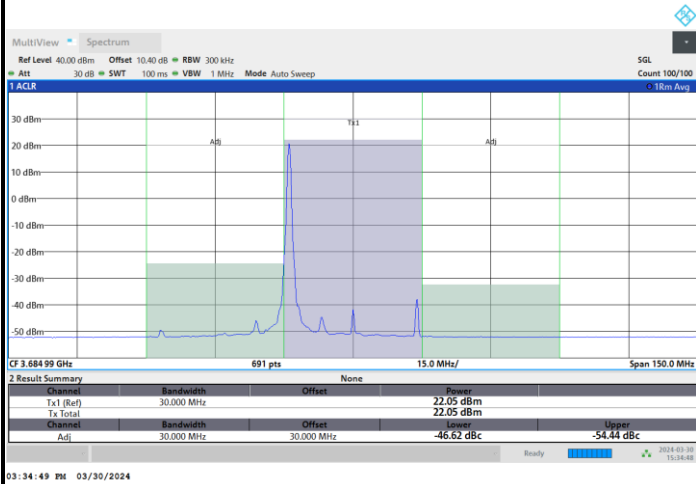




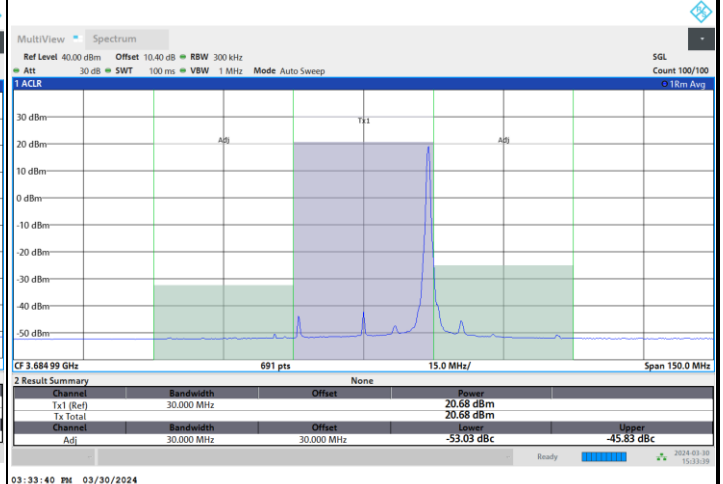
FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

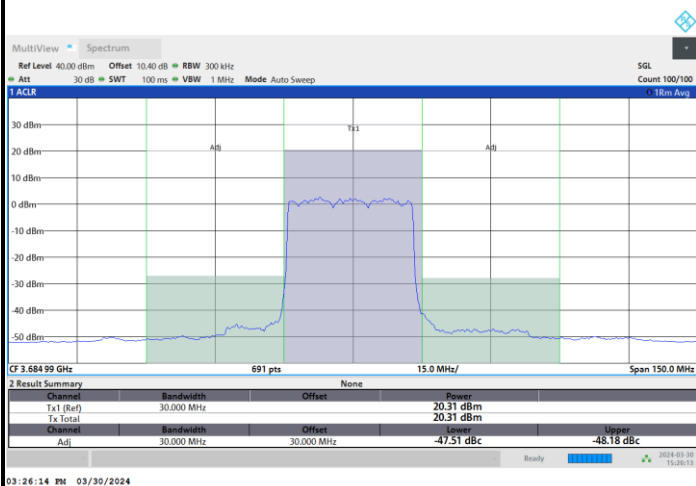
1RB0



1RBmax



Full RB

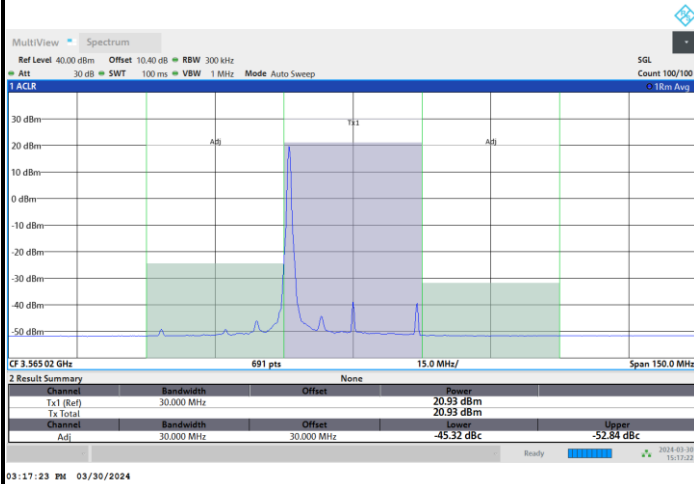




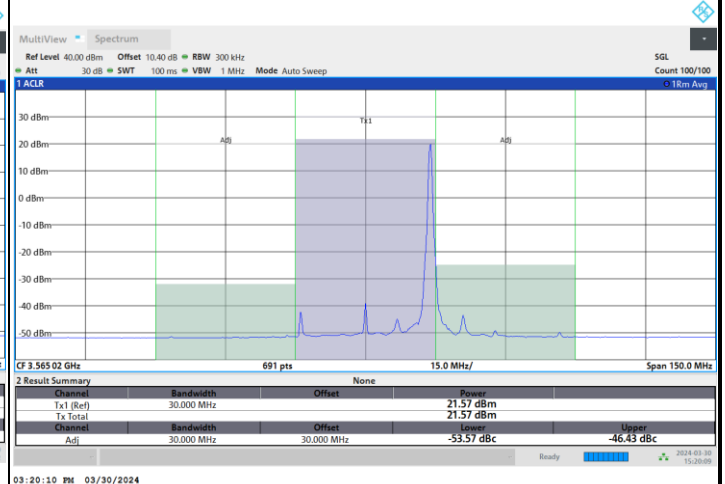
FR1 n48 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel

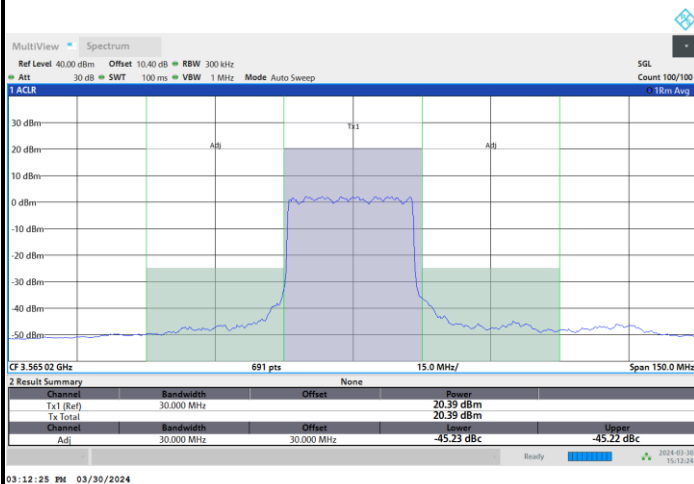
1RB0



1RBmax



Full RB

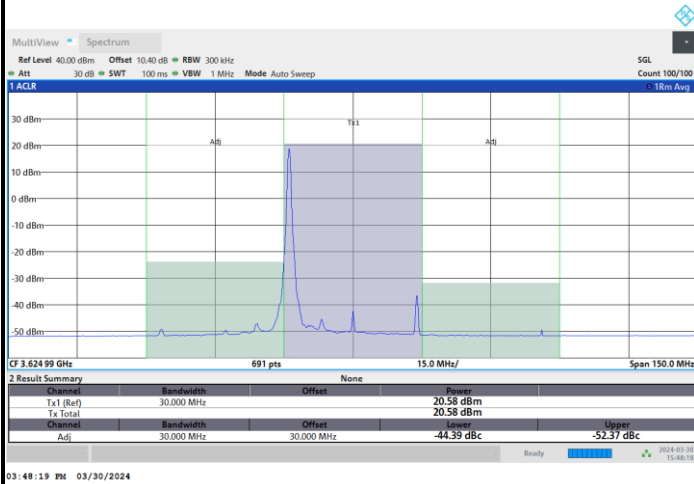




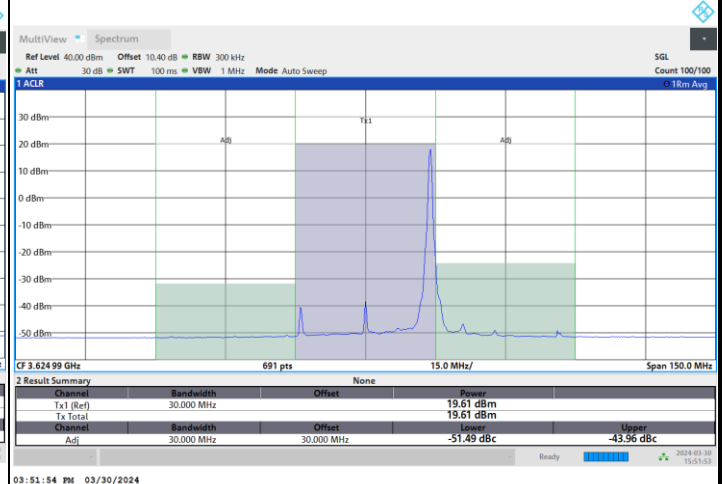
FR1 n48 / 30MHz / DFT-S OFDM / QPSK

Middle Channel

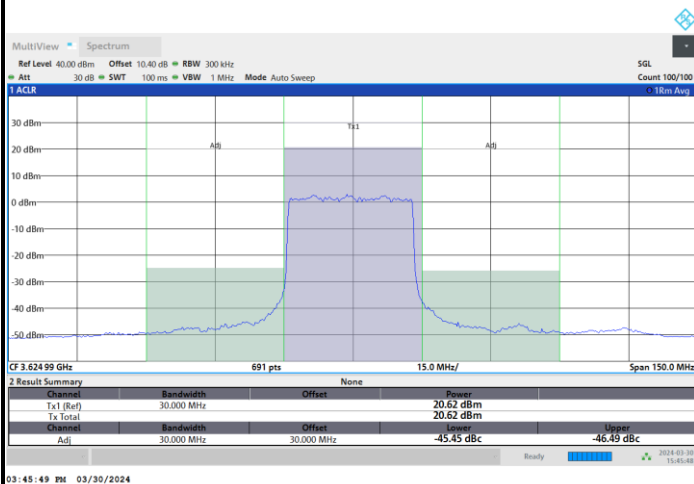
1RB0



1RBmax



Full RB





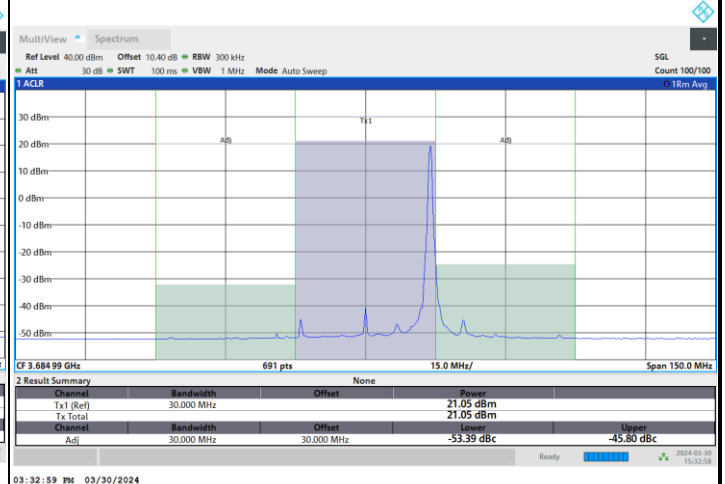
FR1 n48 / 30MHz / DFT-S OFDM / QPSK

Highest Channel

1RB0



1RBmax



Full RB

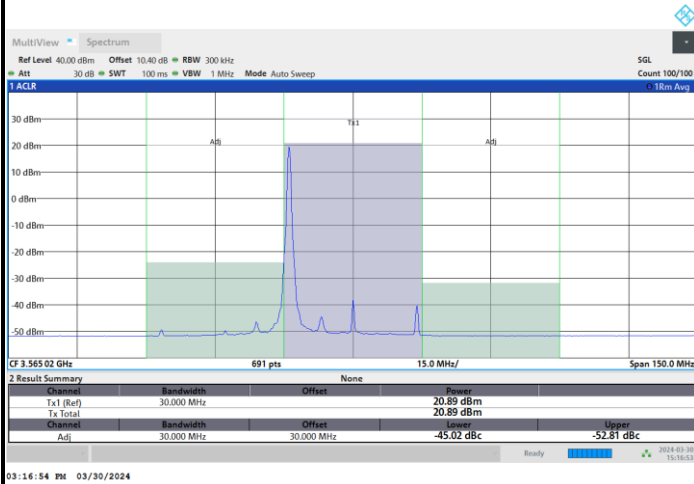




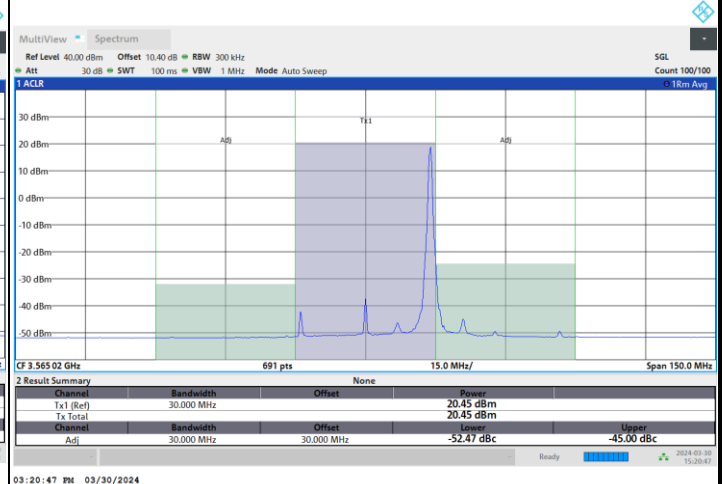
FR1 n48 / 30MHz / DFT-S OFDM / 16QAM

Lowest Channel

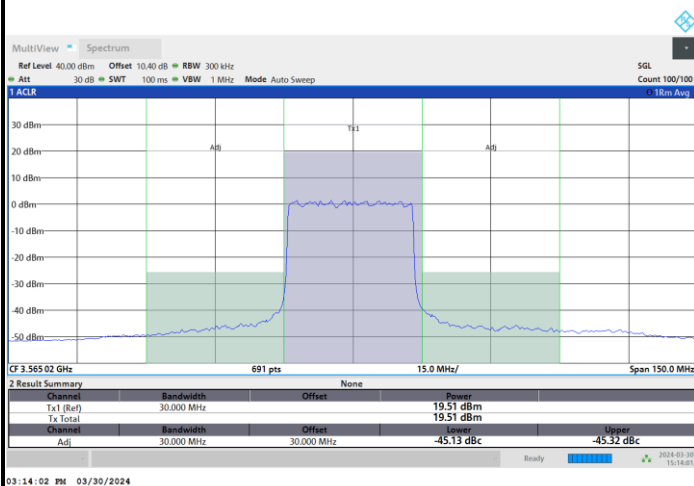
1RB0



1RBmax



Full RB

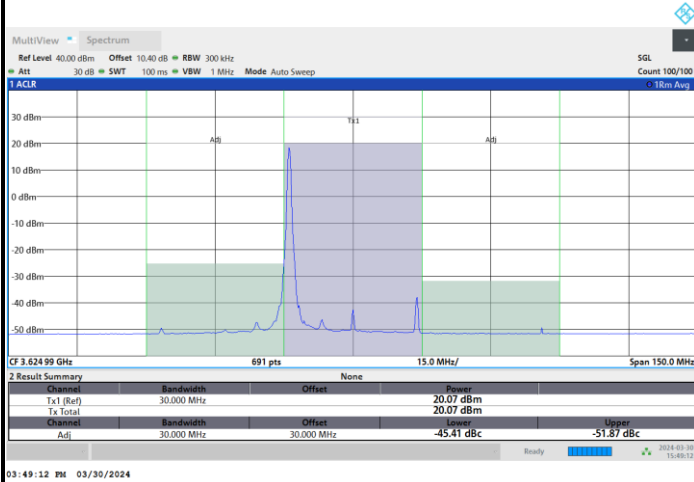




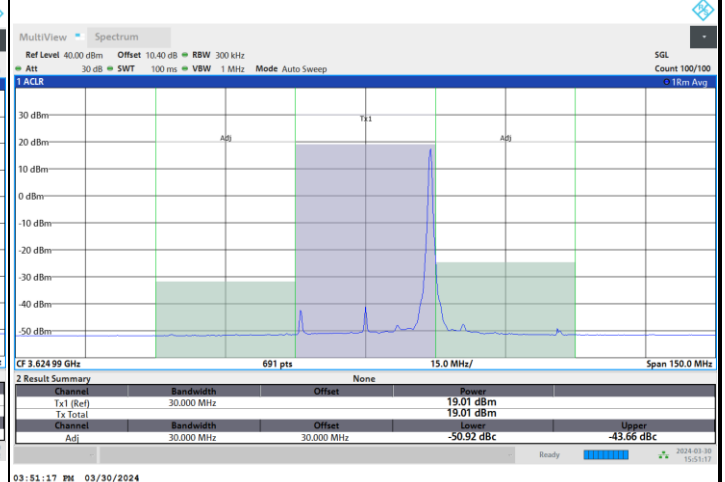
FR1 n48 / 30MHz / DFT-S OFDM / 16QAM

Middle Channel

1RB0



1RBmax



Full RB

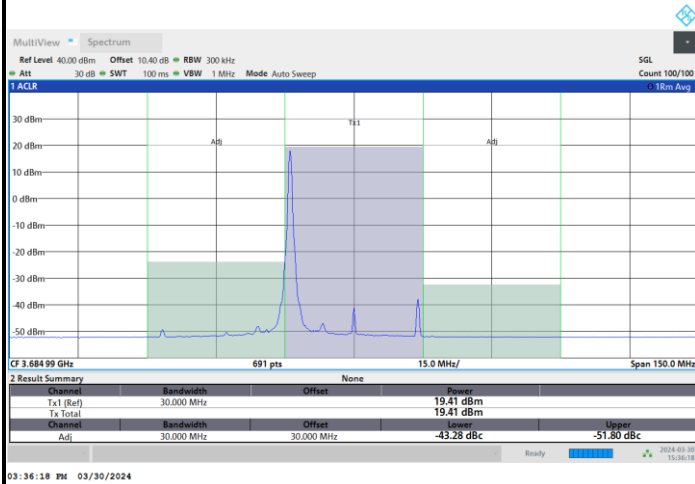




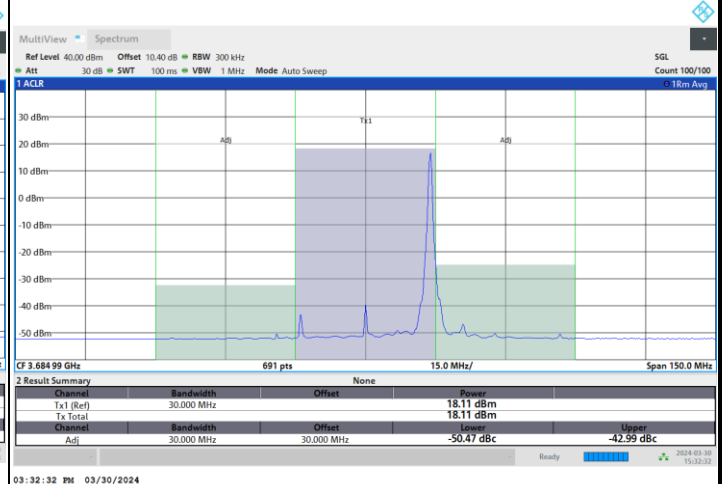
FR1 n48 / 30MHz / DFT-S OFDM / 16QAM

Highest Channel

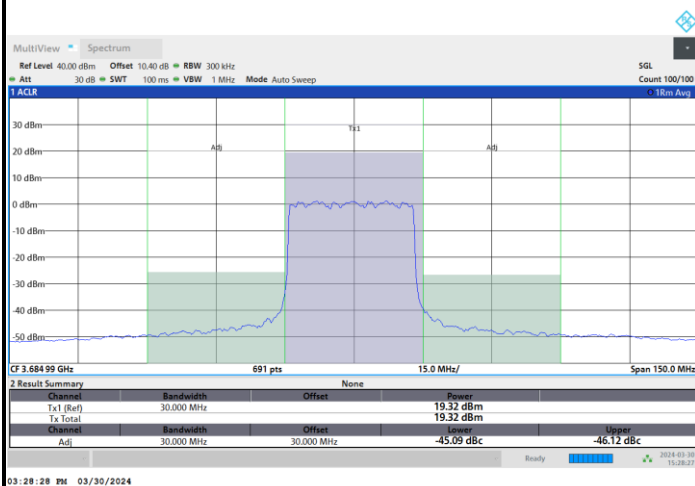
1RB0



1RBmax



Full RB

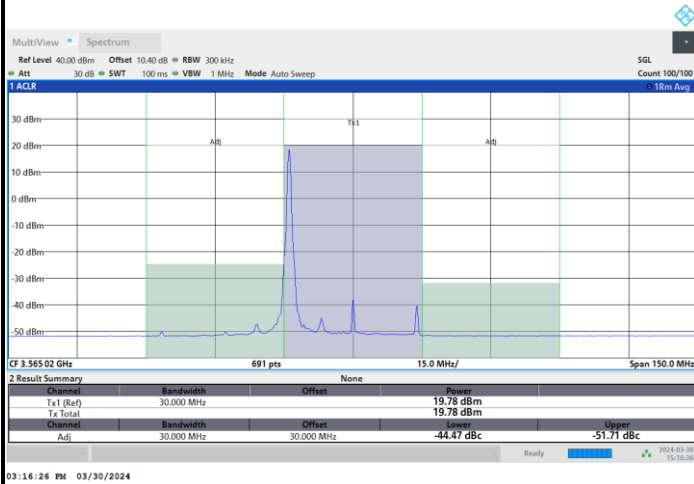




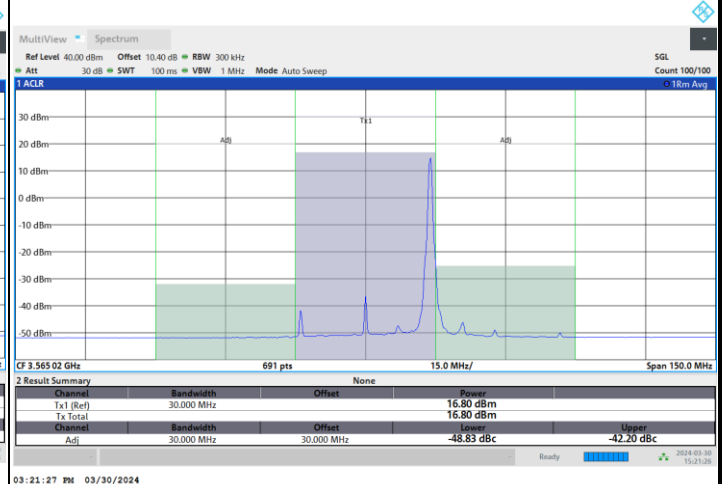
FR1 n48 / 30MHz / DFT-S OFDM / 64QAM

Lowest Channel

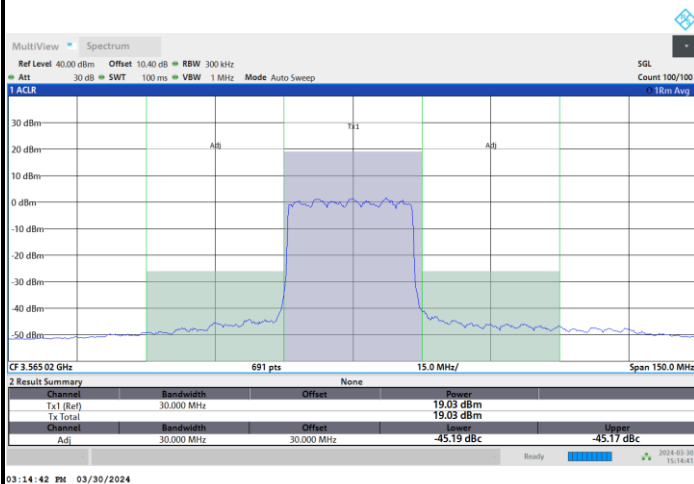
1RB0



1RBmax



Full RB





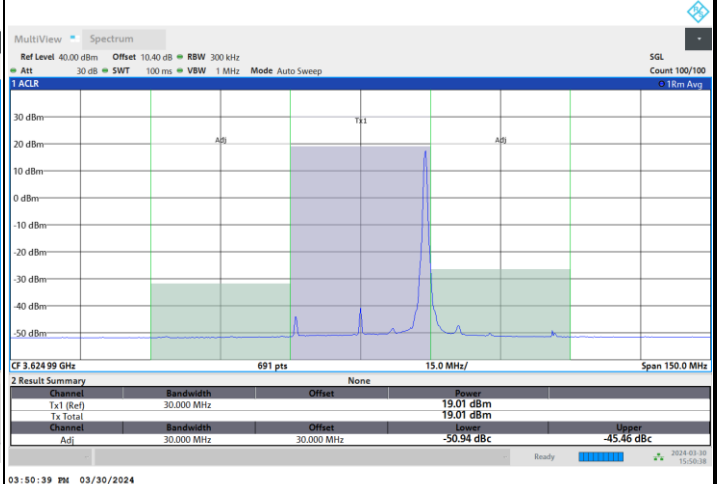
FR1 n48 / 30MHz / DFT-S OFDM / 64QAM

Middle Channel

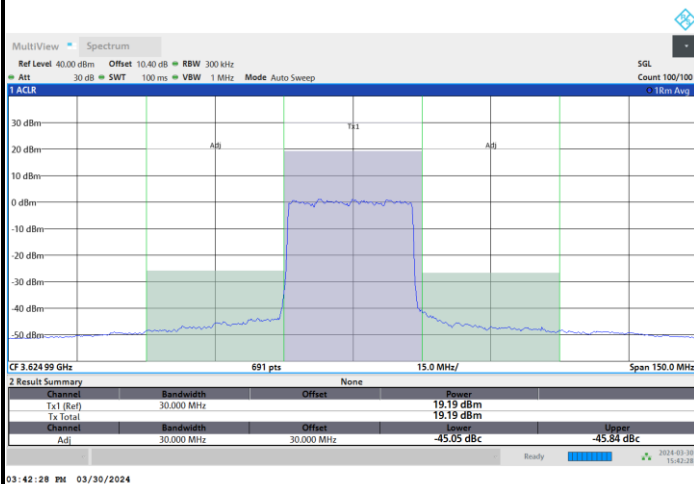
1RB0



1RBmax



Full RB

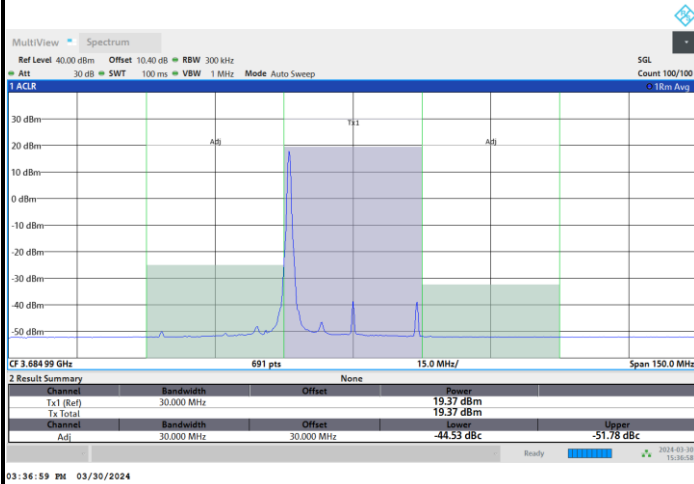




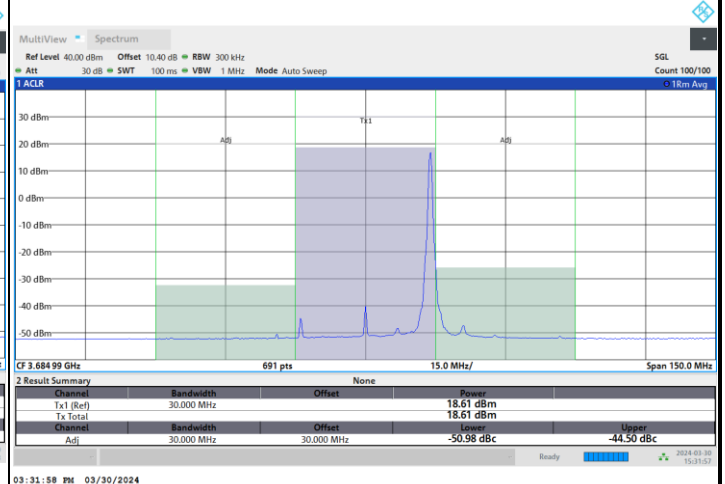
FR1 n48 / 30MHz / DFT-S OFDM / 64QAM

Highest Channel

1RB0



1RBmax



Full RB

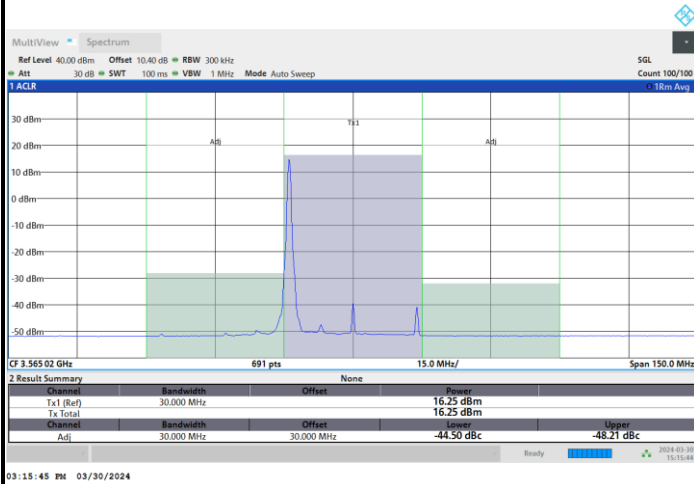




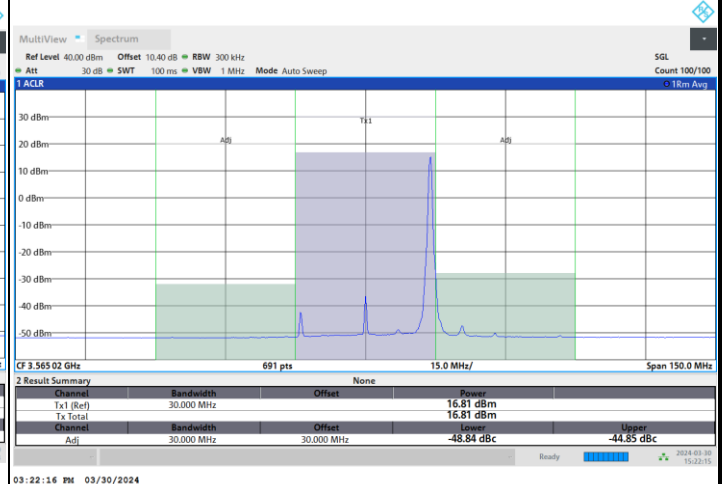
FR1 n48 / 30MHz / DFT-S OFDM / 256QAM

Lowest Channel

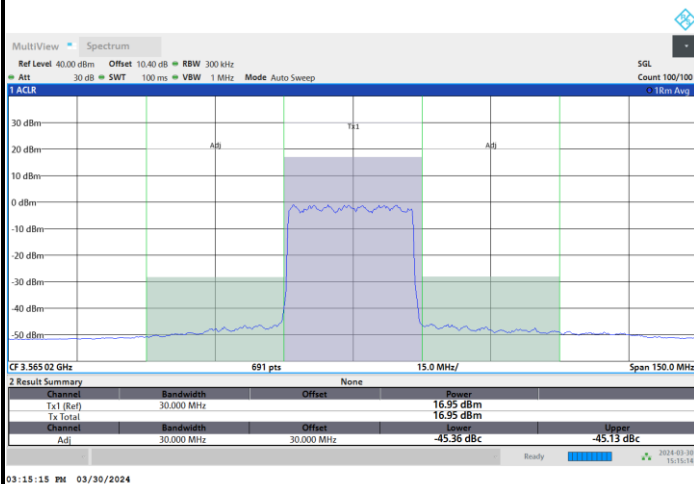
1RB0



1RBmax



Full RB

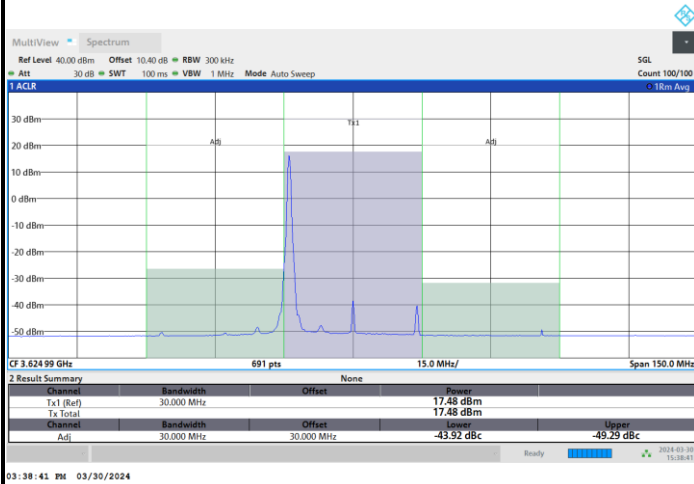




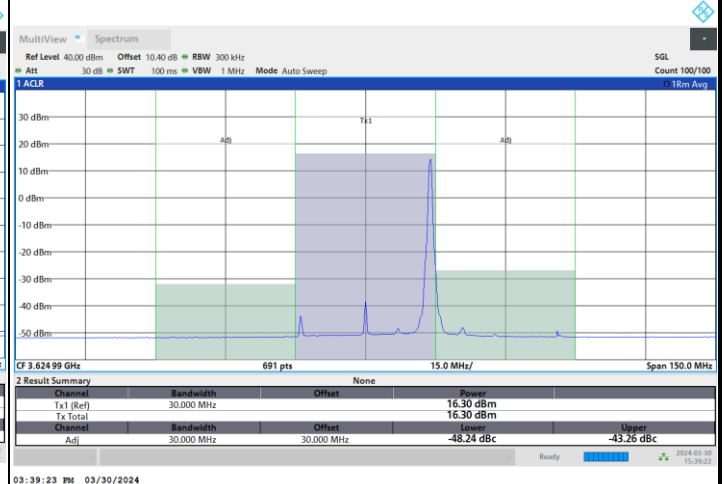
FR1 n48 / 30MHz / DFT-S OFDM / 256QAM

Middle Channel

1RB0



1RBmax



Full RB

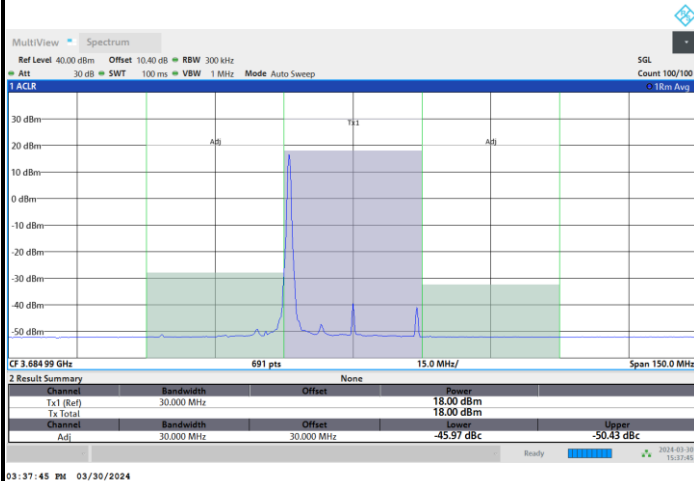




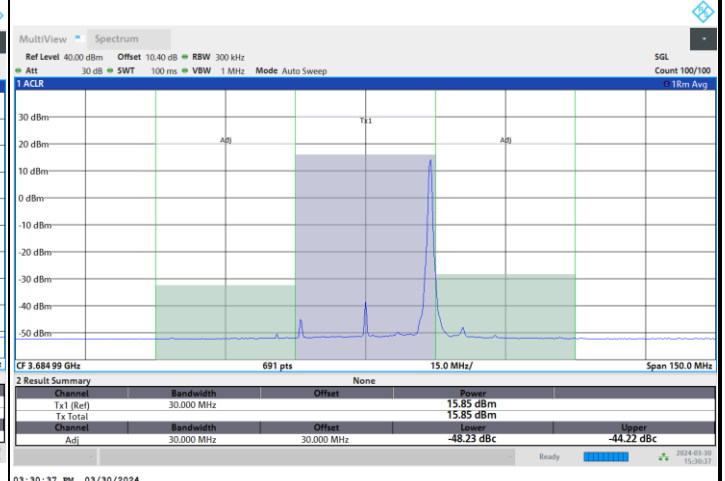
FR1 n48 / 30MHz / DFT-S OFDM / 256QAM

Highest Channel

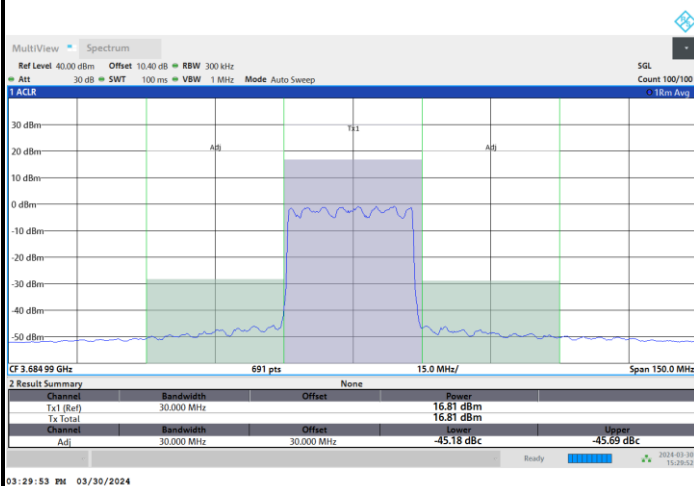
1RB0



1RBmax



Full RB



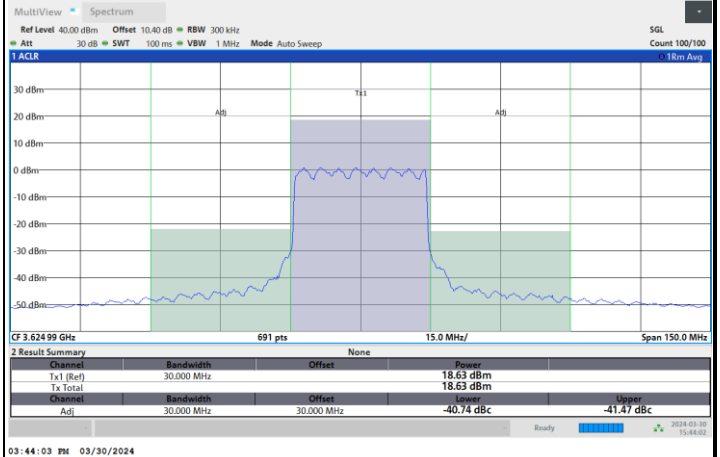


FR1 n48 / 30MHz / CP OFDM / QPSK / Full RB

Lowest Channel



Middle Channel



Highest Channel

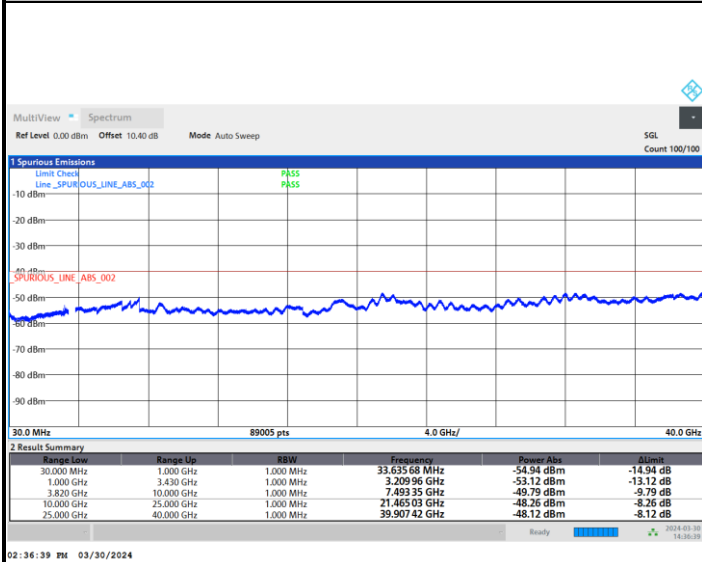




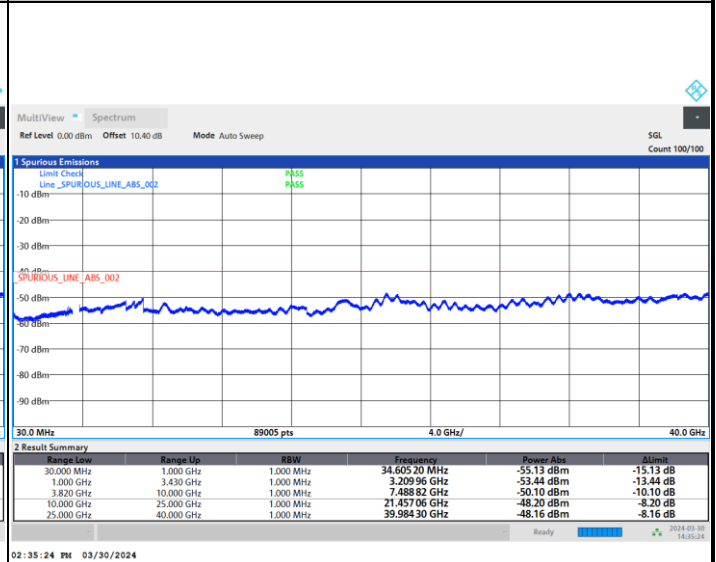
Conducted Spurious Emission

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

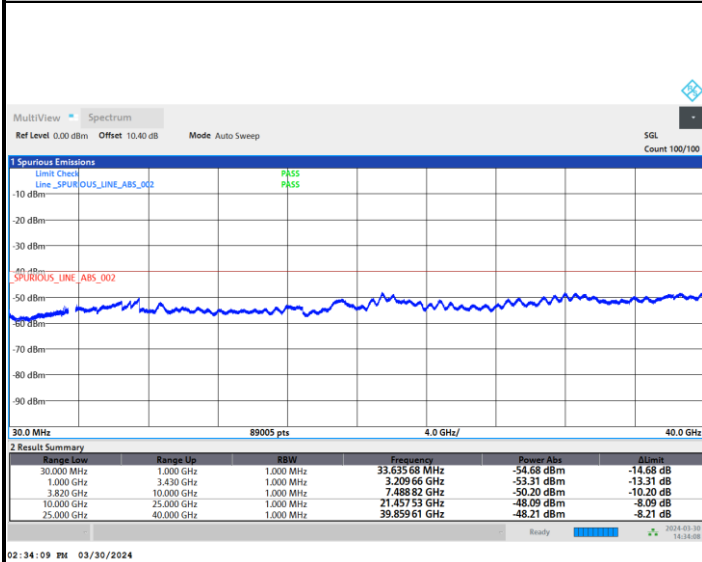
Lowest Channel



Middle Channel



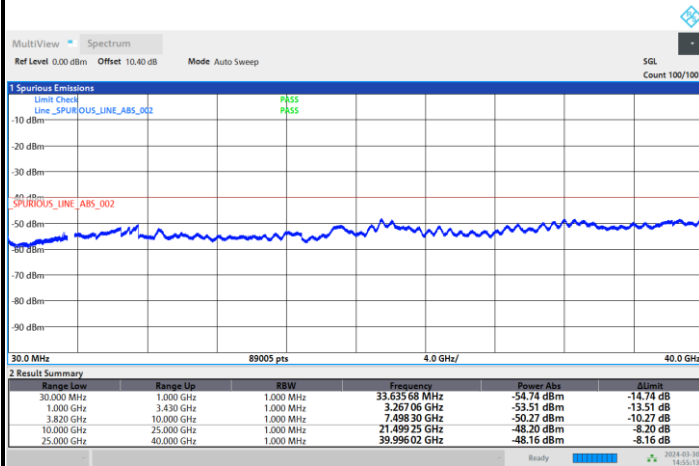
Highest Channel





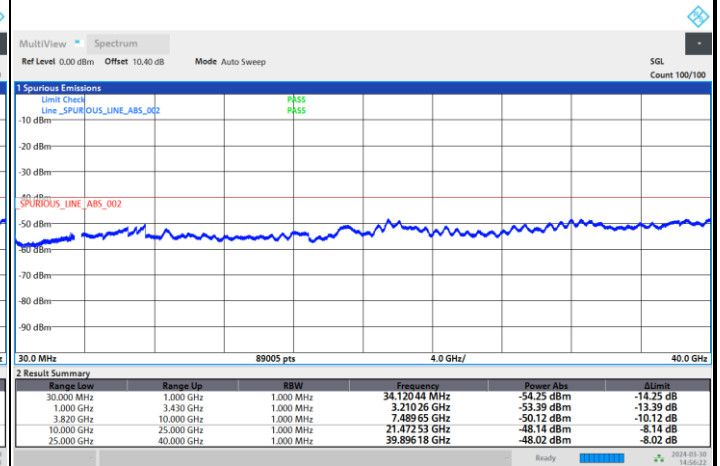
FR1 n48 / 15MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



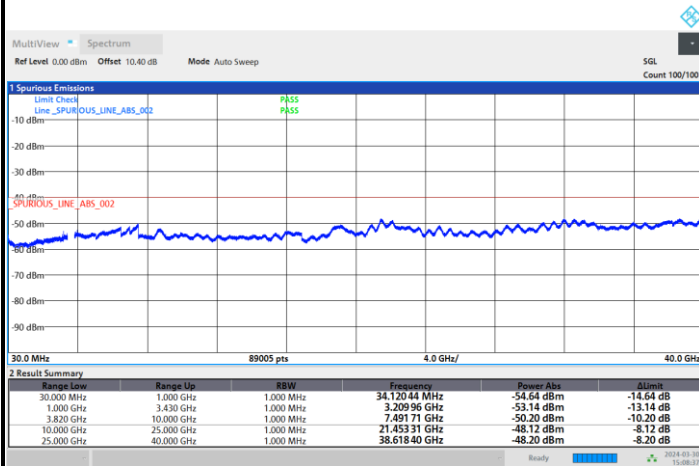
02:55:14 PM 03/30/2024

Middle Channel



02:56:22 PM 03/30/2024

Highest Channel

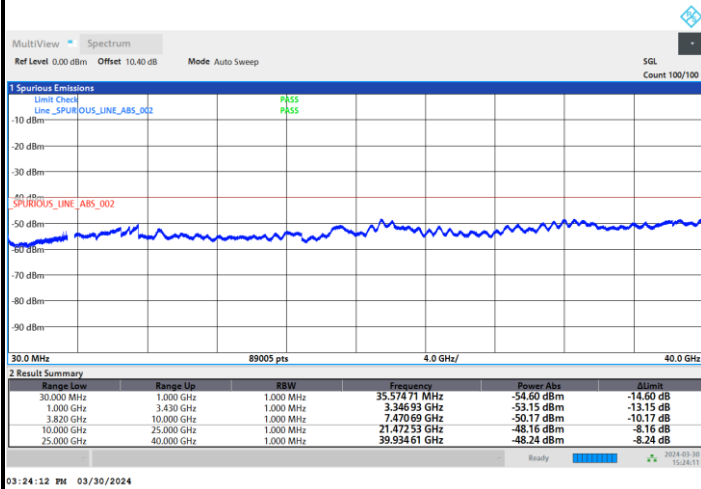


03:08:38 PM 03/30/2024

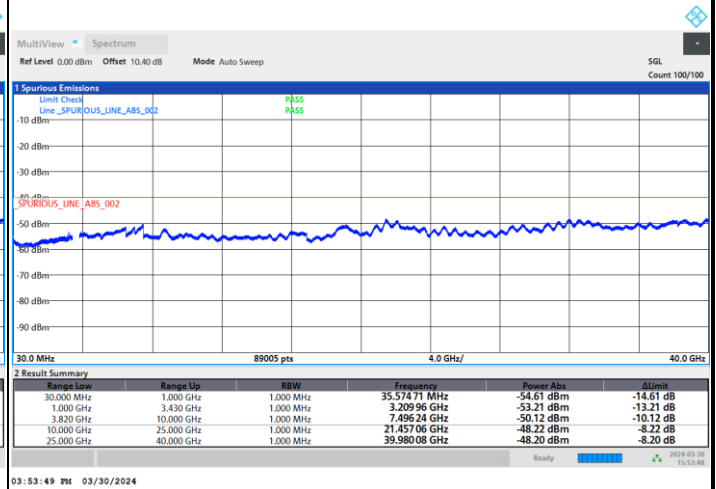


FR1 n48 / 30MHz / DFT-S OFDM / QPSK / 1RB1

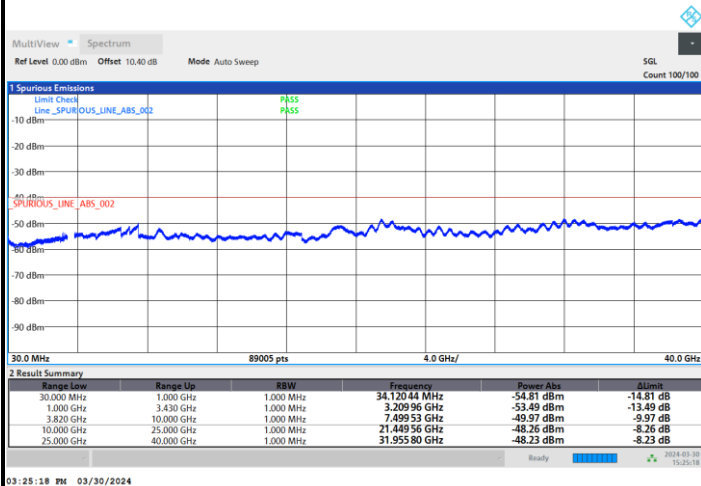
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n48 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0165	PASS
40	Normal Voltage	0.0129	
30	Normal Voltage	0.0066	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0078	
-10	Normal Voltage	0.0120	
-20	Normal Voltage	0.0185	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0155	
20	Normal Voltage	0.0141	
20	Battery End Point	0.0055	

Note:

1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

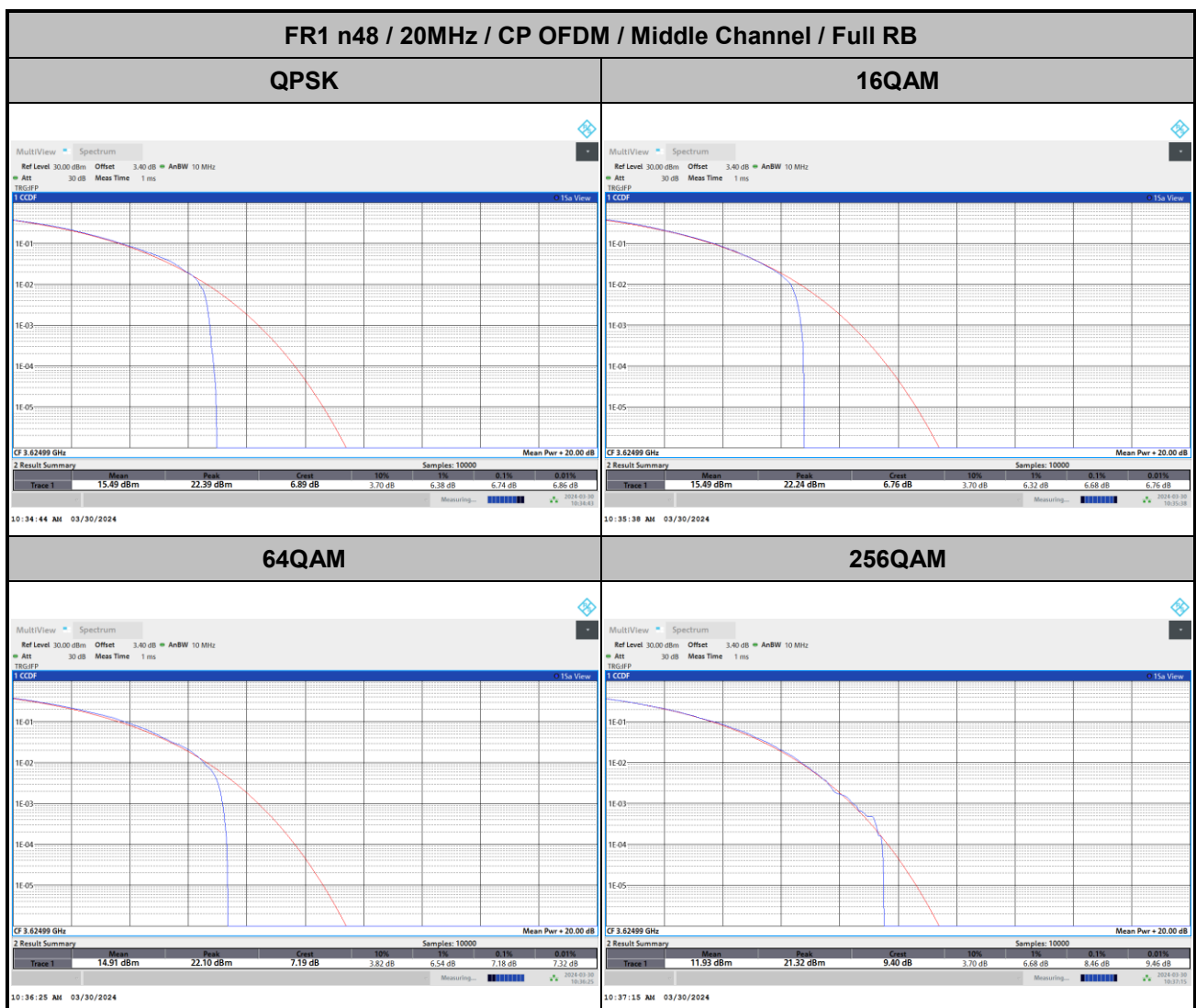


<MIMO Mode>

FR1 n48_ANT 3

Peak-to-Average Ratio

Mode	FR1 n48 / 10MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.74	6.68	7.18	8.46	PASS



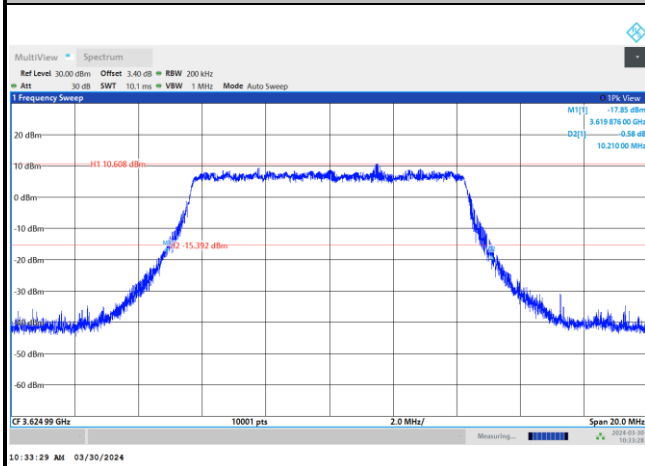
**26dB Bandwidth**

Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.21	10.24	15.51	15.51	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.03	10.04	15.47	15.45	-	-	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	30.85	31.57	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	32.54	30.67	-	-	-	-	-	-
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	-	-	-	-

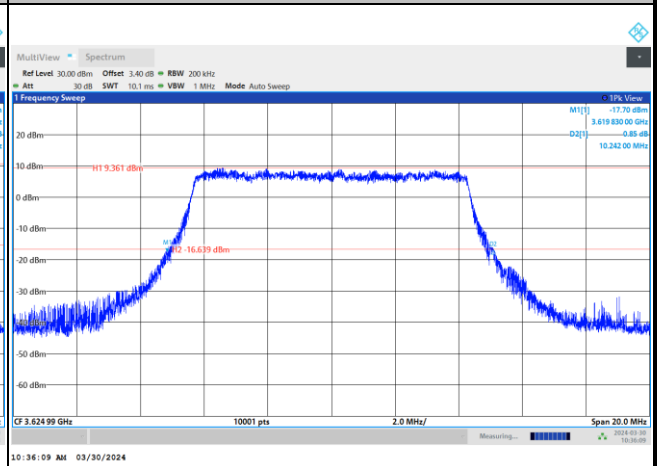


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

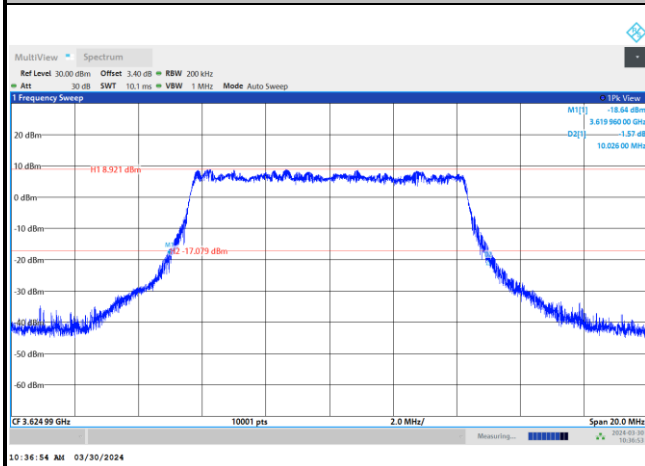
QPSK



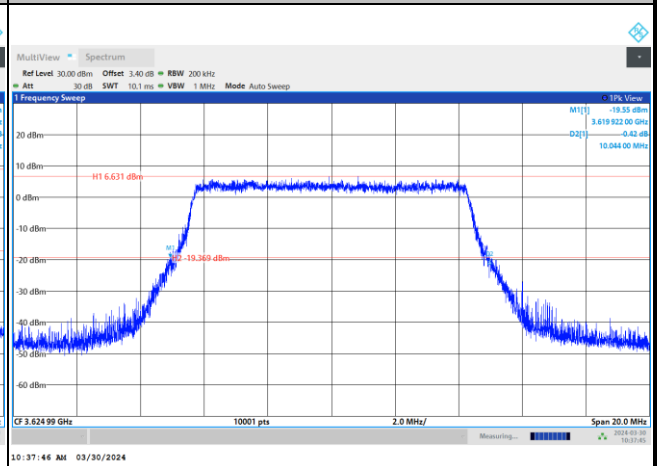
16QAM



64QAM



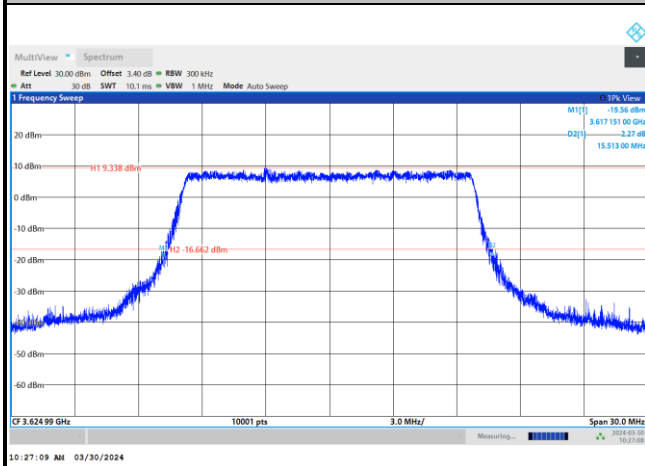
256QAM



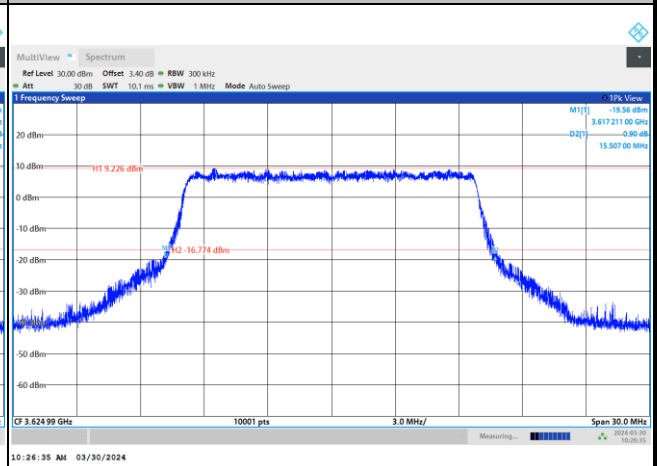


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

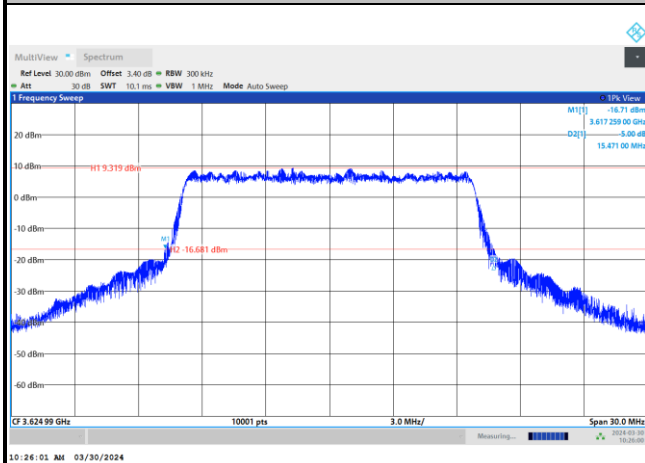
QPSK



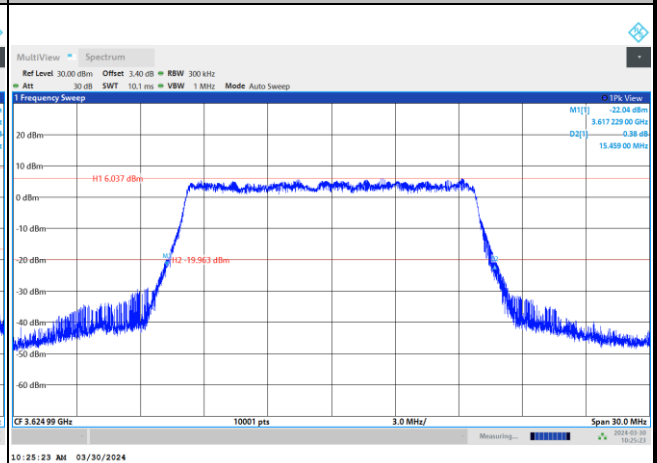
16QAM



64QAM



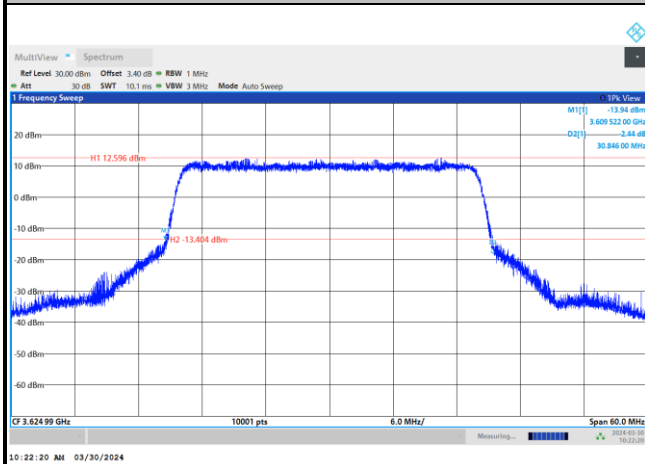
256QAM



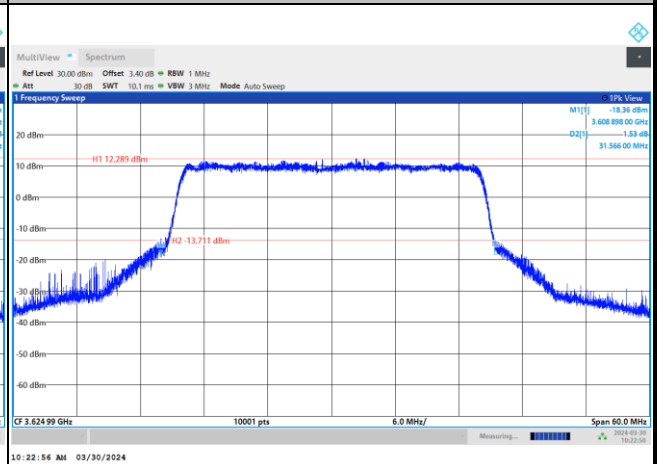


FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

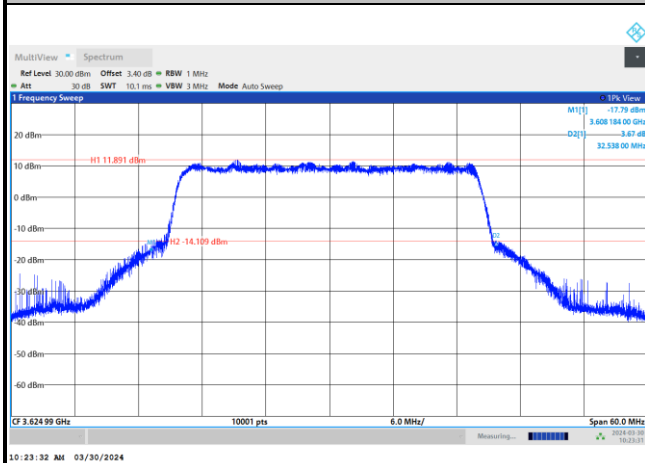
QPSK



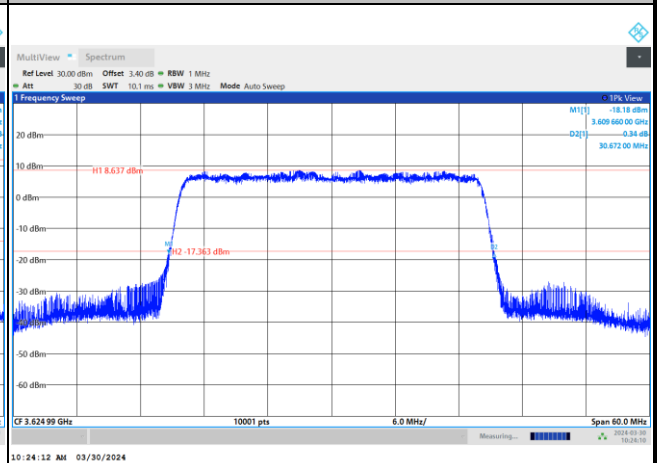
16QAM



64QAM



256QAM



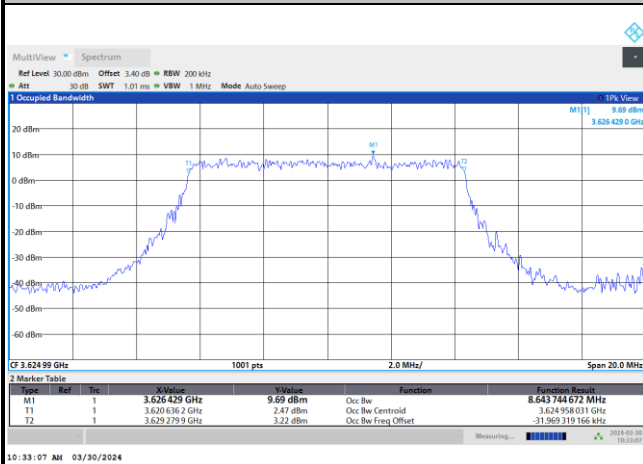
**Occupied Bandwidth**

Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.64	8.67	13.66	13.65	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.61	8.64	13.67	13.64	-	-	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	28.16	28.36	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.23	28.19	-	-	-	-	-	-
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	-	-	-	-

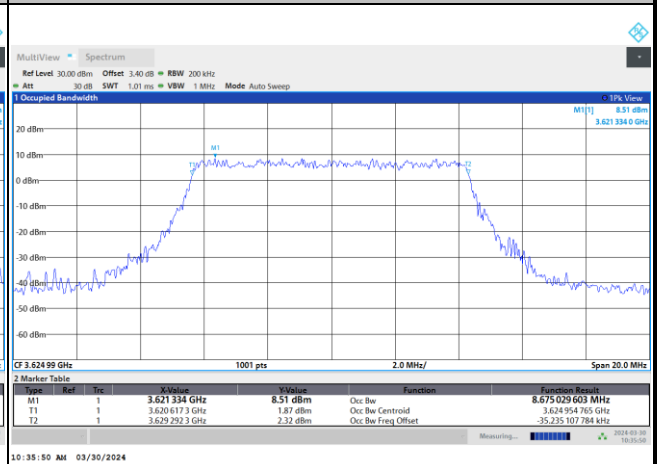


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

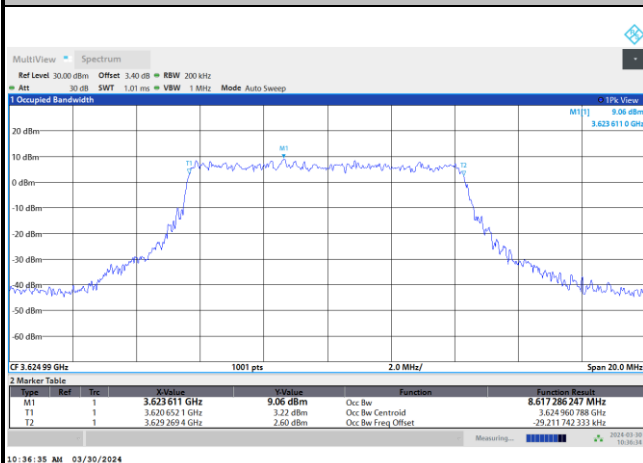
QPSK



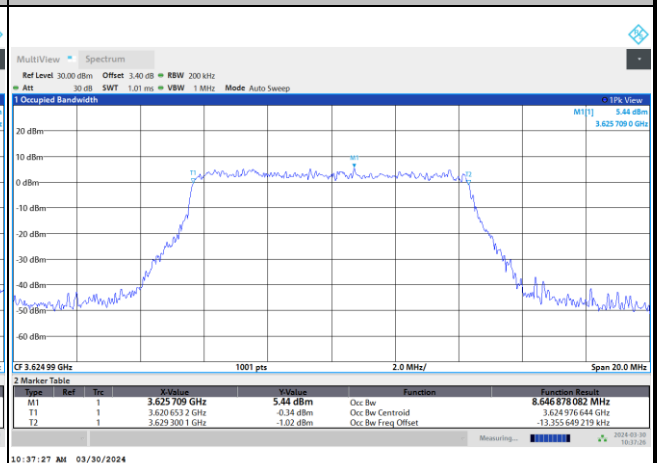
16QAM



64QAM



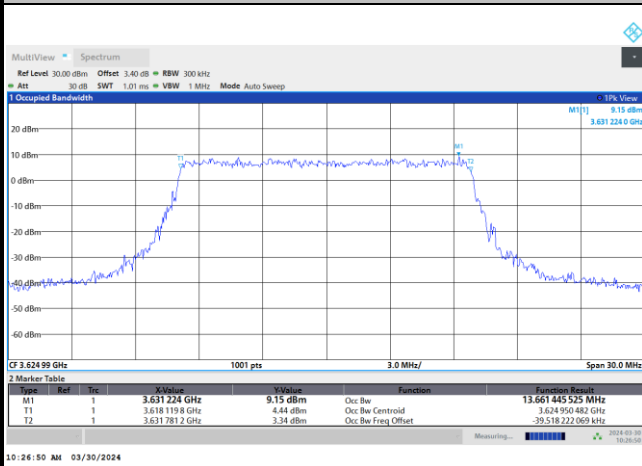
256QAM





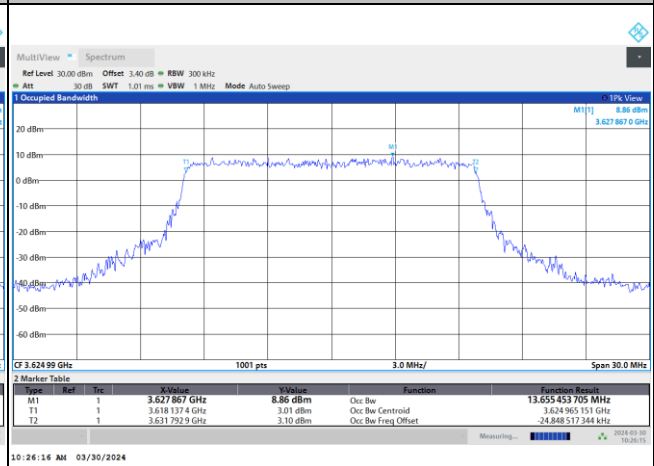
FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



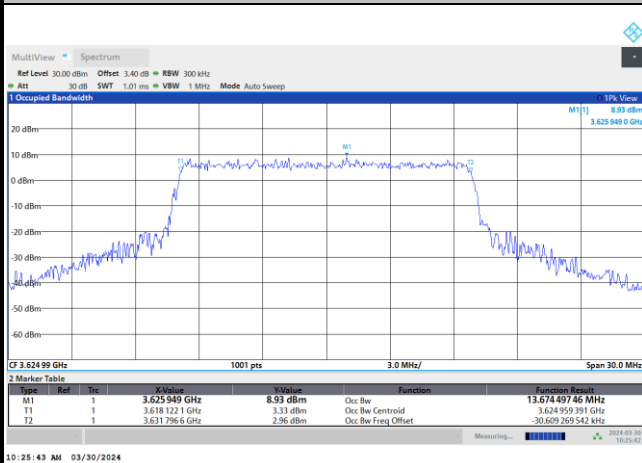
10:26:15 AM 03/30/2024

16QAM



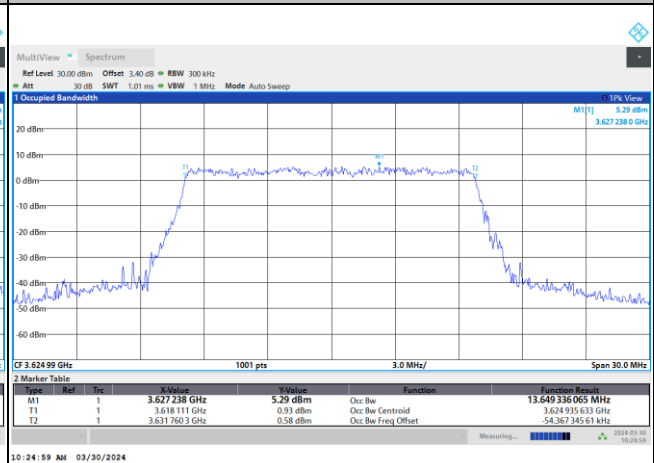
10:26:16 AM 03/30/2024

64QAM



10:25:43 AM 03/30/2024

256QAM

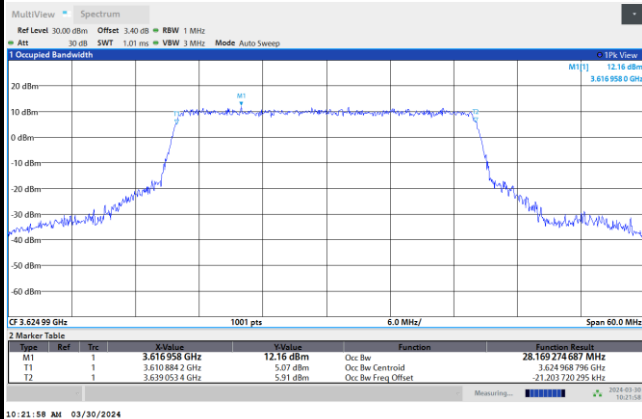


10:24:59 AM 03/30/2024



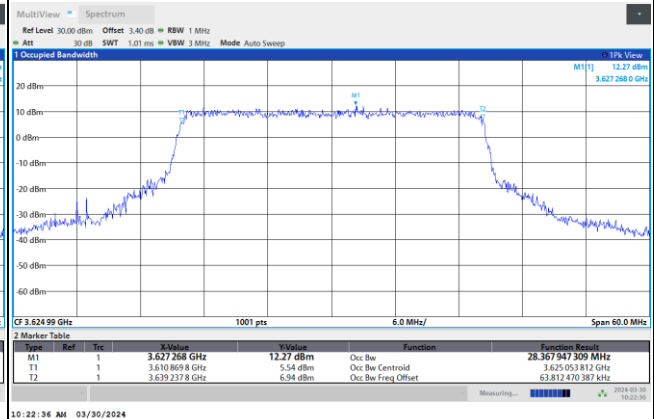
FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



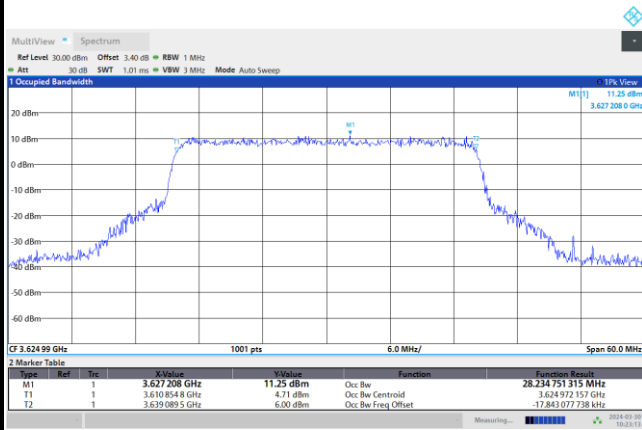
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16QAM



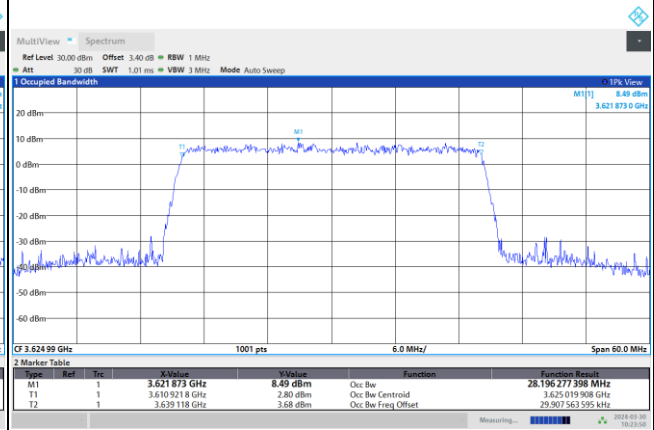
10:22:06 AM 03/30/2024

64QAM



10:23:13 AM 03/30/2024

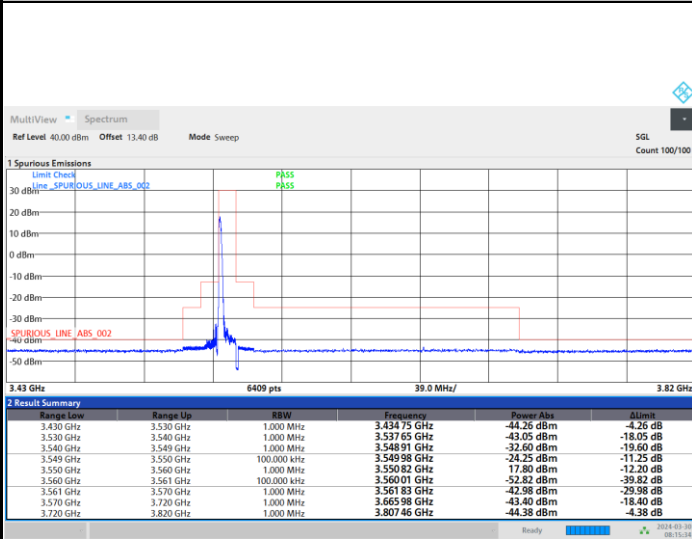
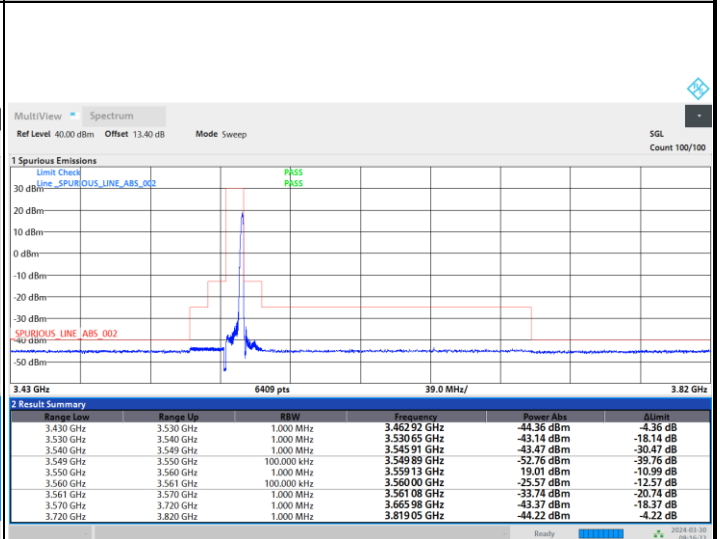
256QAM



10:23:51 AM 03/30/2024

**Unwanted Emission (MASK)**

FR1 n48 / 10MHz / CP OFDM / QPSK

Lowest Channel**1RB0****1RBmax****Full RB**