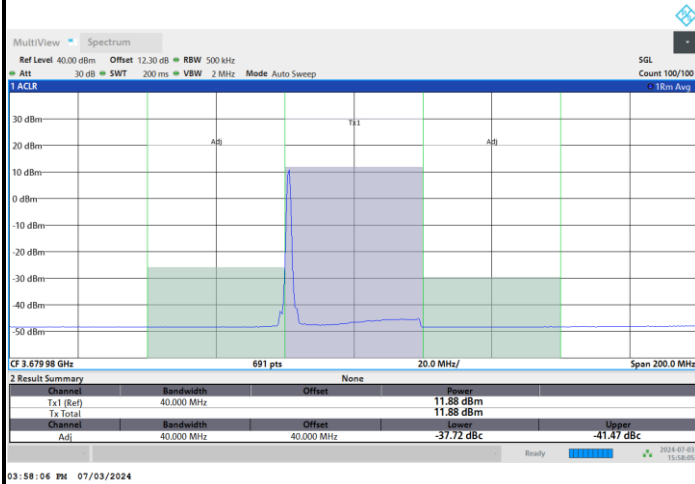




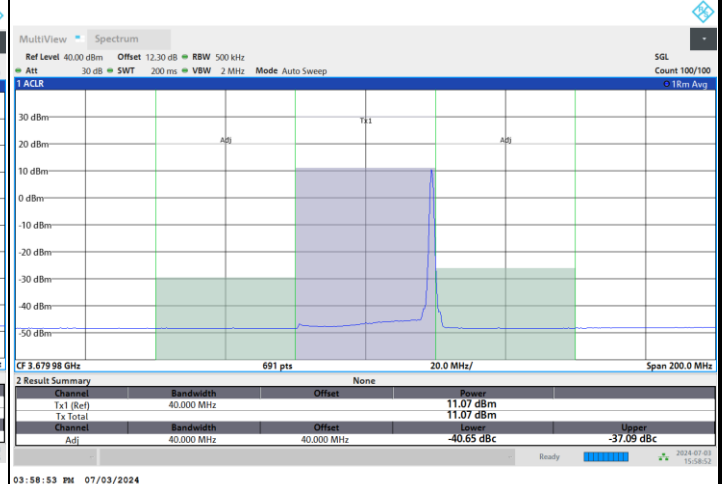
FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Highest Channel

1RB0



1RBmax



Full RB

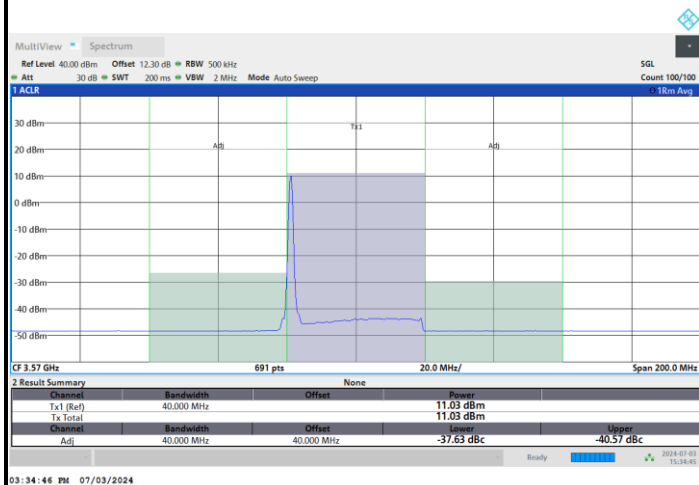




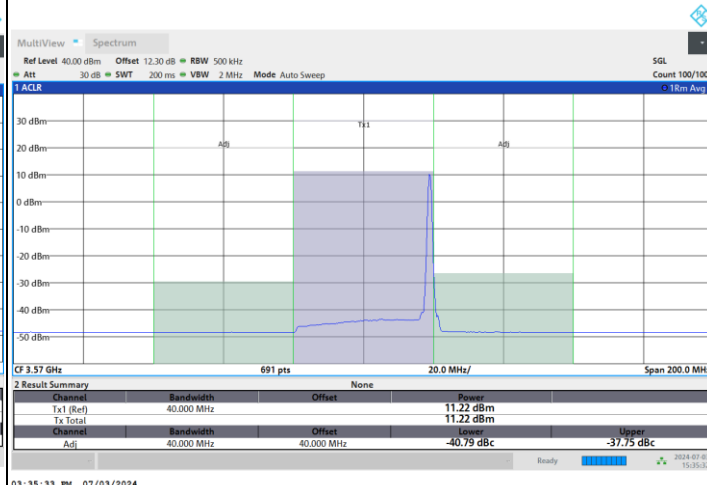
FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Lowest Channel

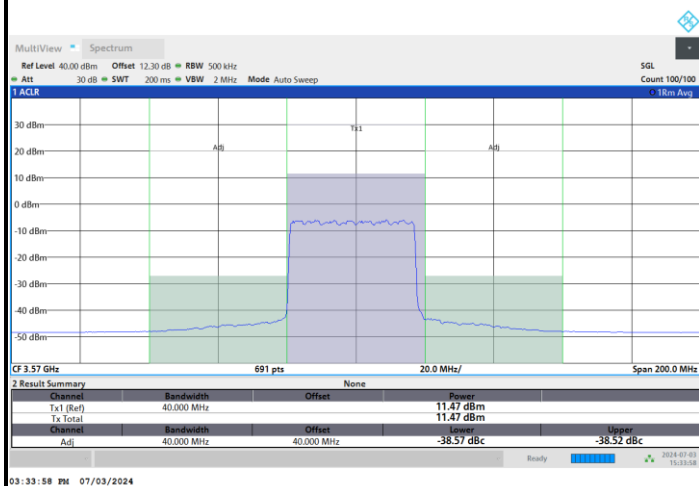
1RB0



1RBmax



Full RB

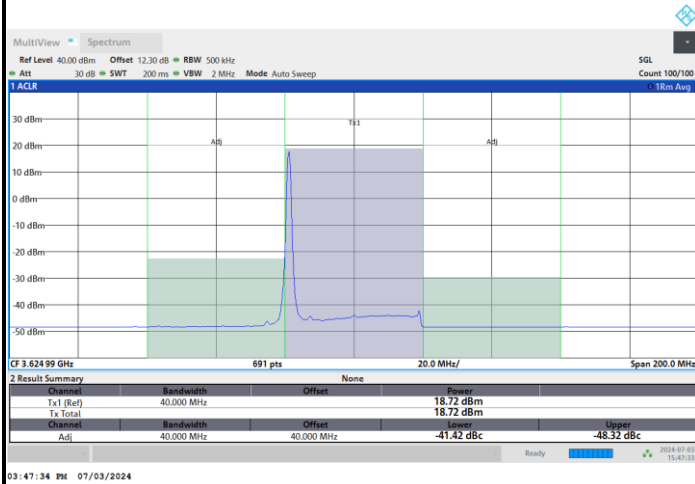




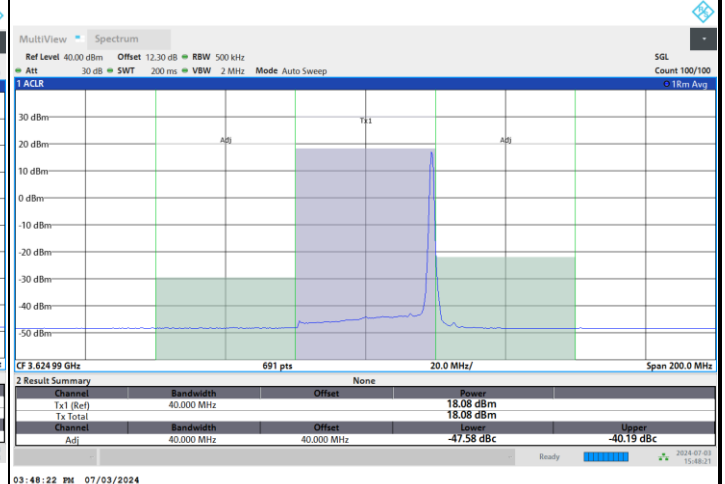
FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Middle Channel

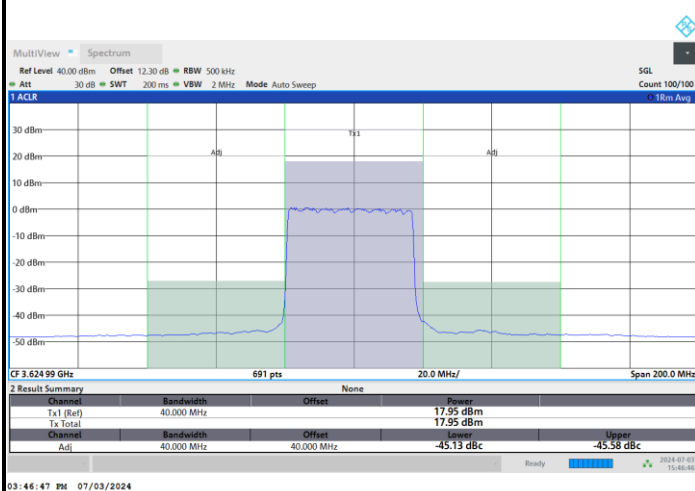
1RB0



1RBmax



Full RB

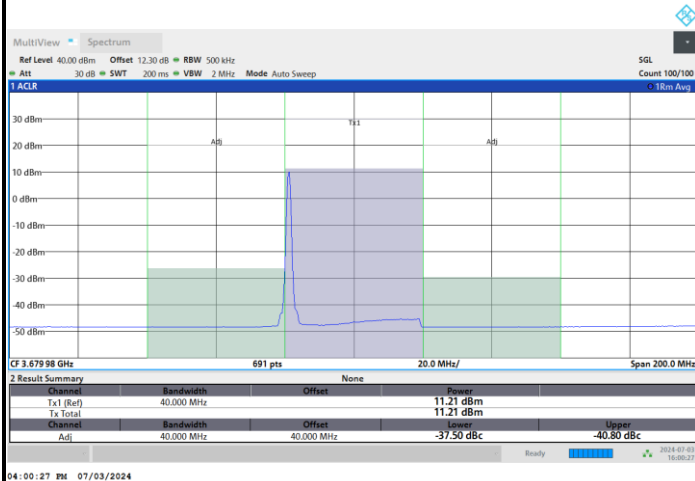




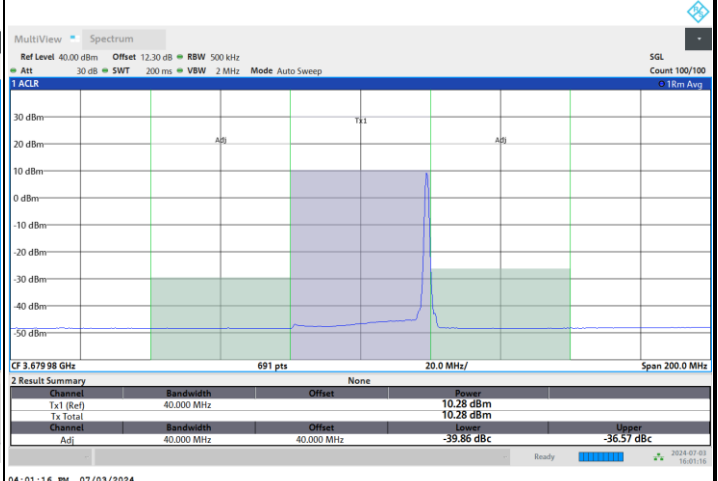
FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Highest Channel

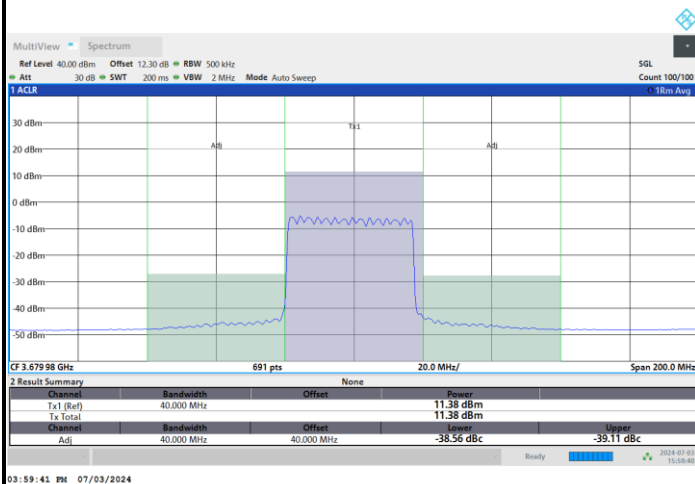
1RB0



1RBmax



Full RB

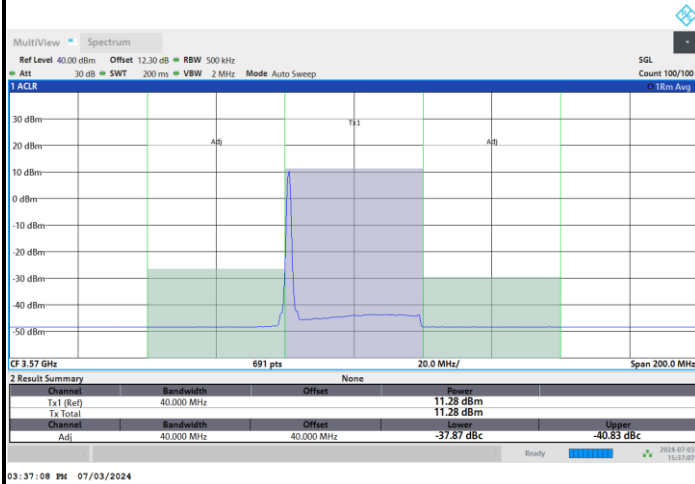




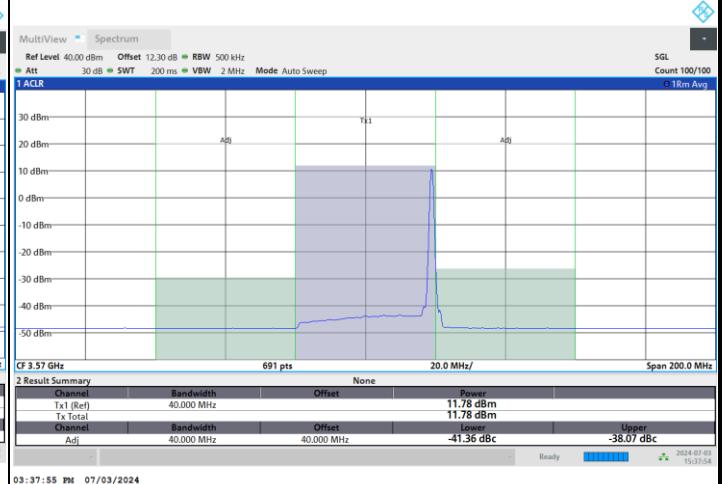
FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Lowest Channel

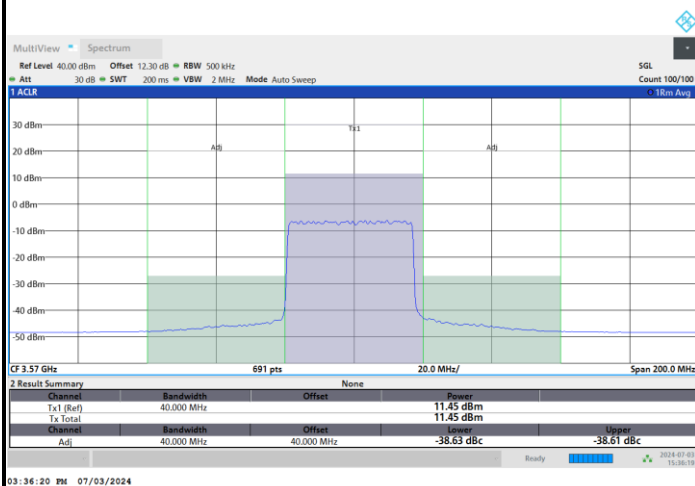
1RB0



1RBmax



Full RB



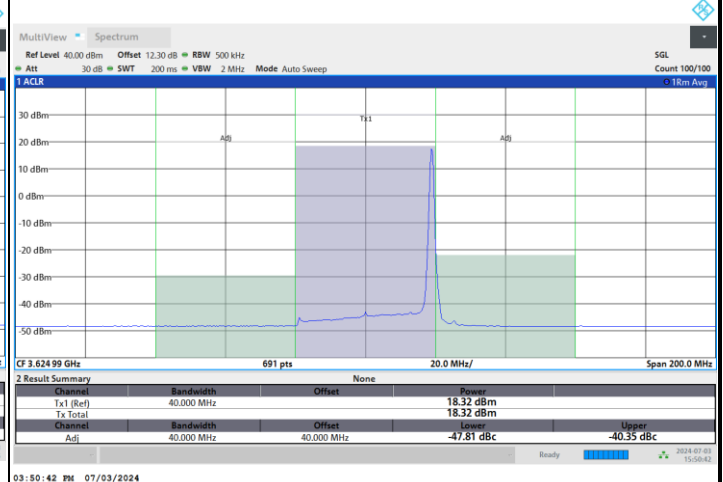
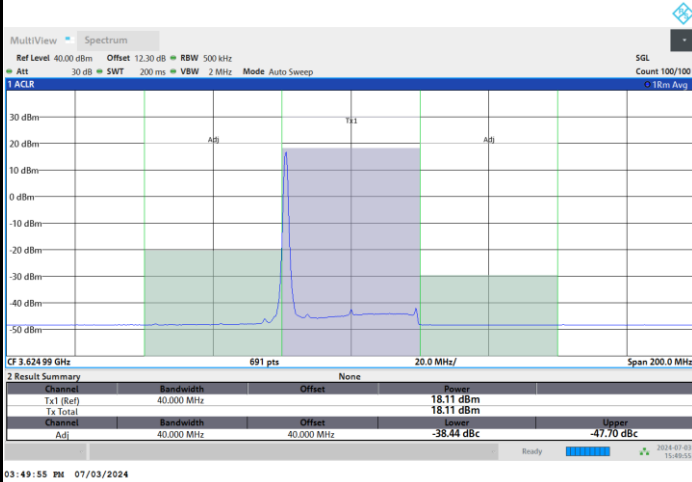


FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

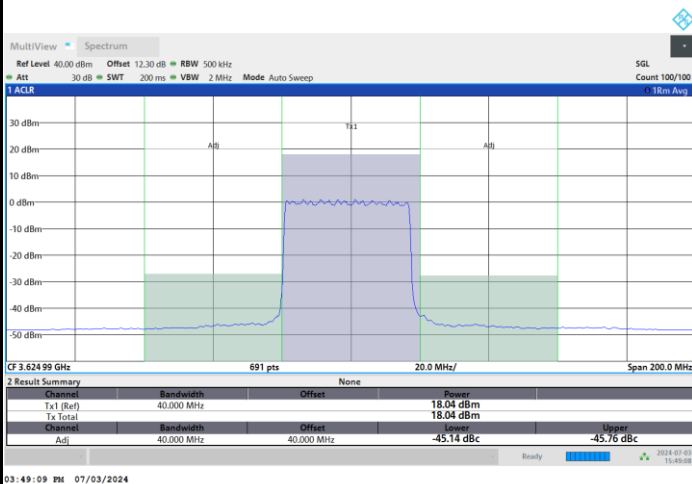
Middle Channel

1RB0

1RBmax



Full RB

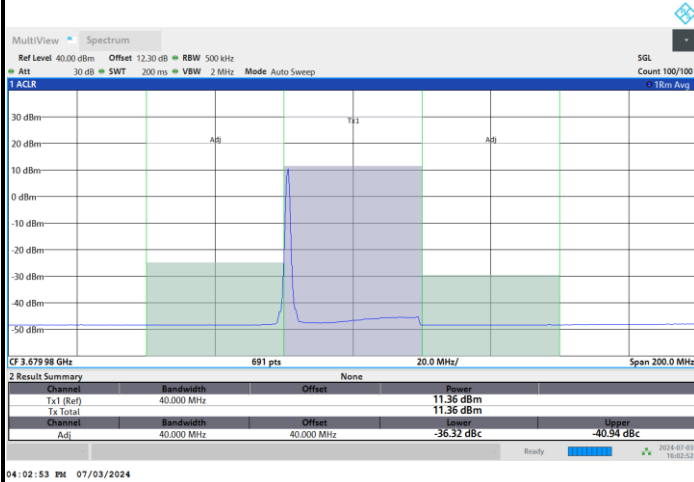




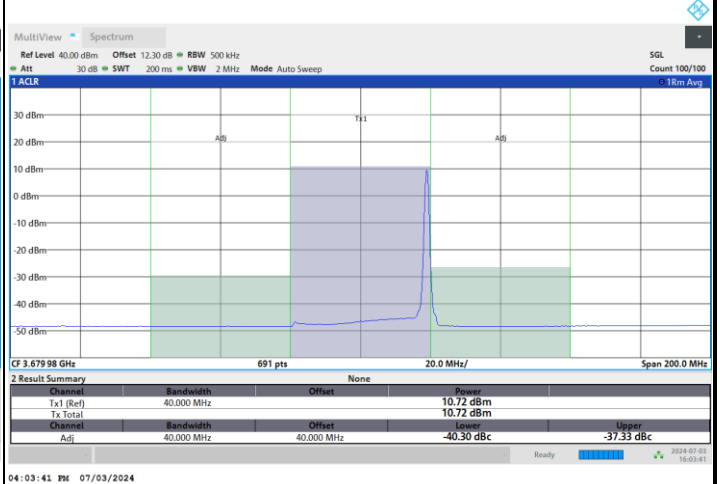
FR1 n48 / 40MHz / DFT-S OFDM / 64QAM

Highest Channel

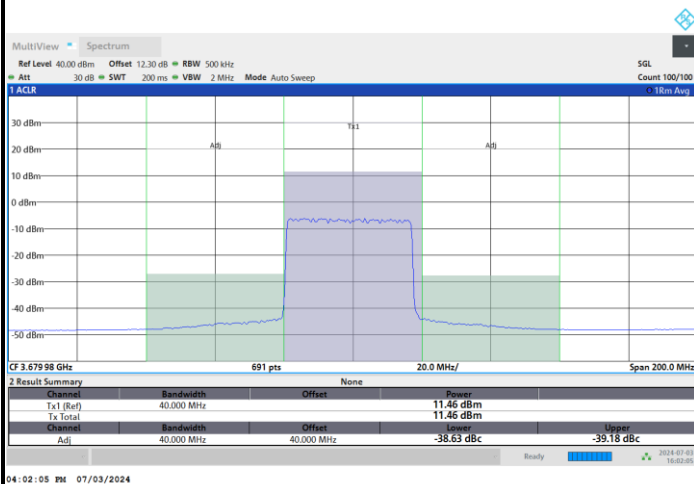
1RB0



1RBmax



Full RB

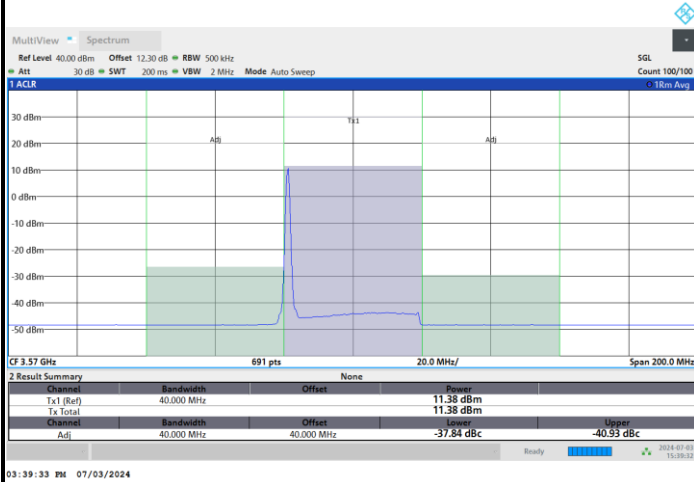




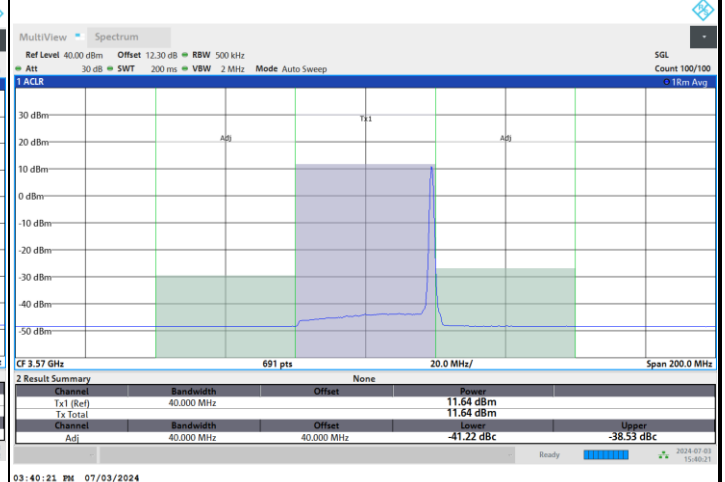
FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Lowest Channel

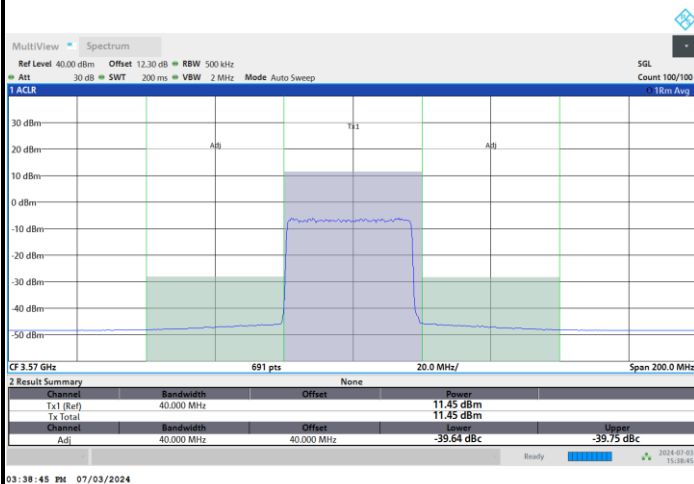
1RB0



1RBmax



Full RB

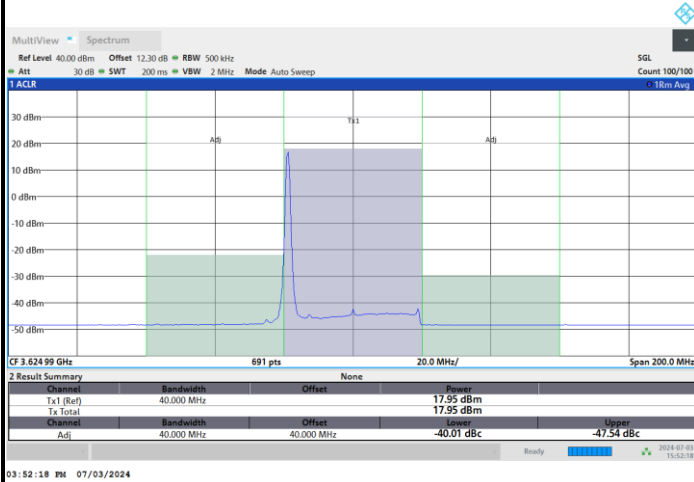




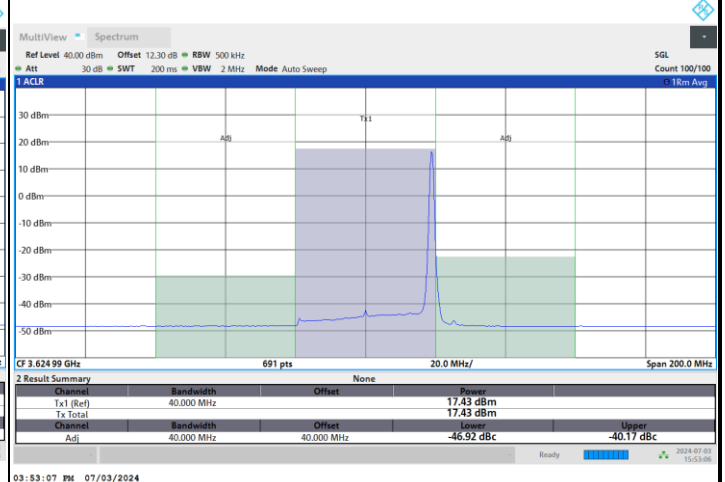
FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Middle Channel

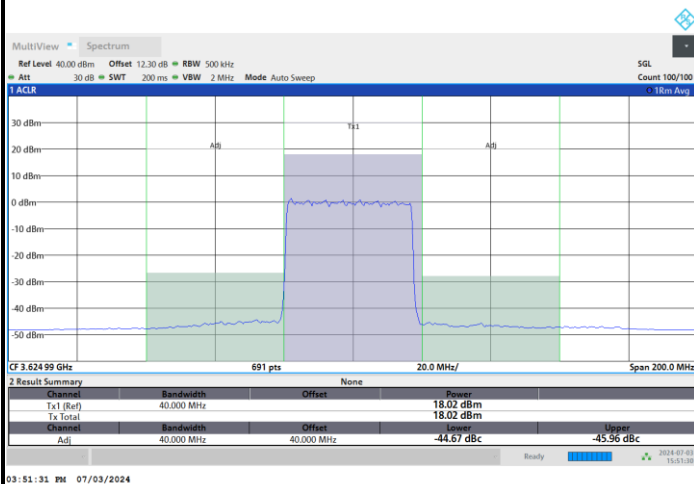
1RB0



1RBmax



Full RB

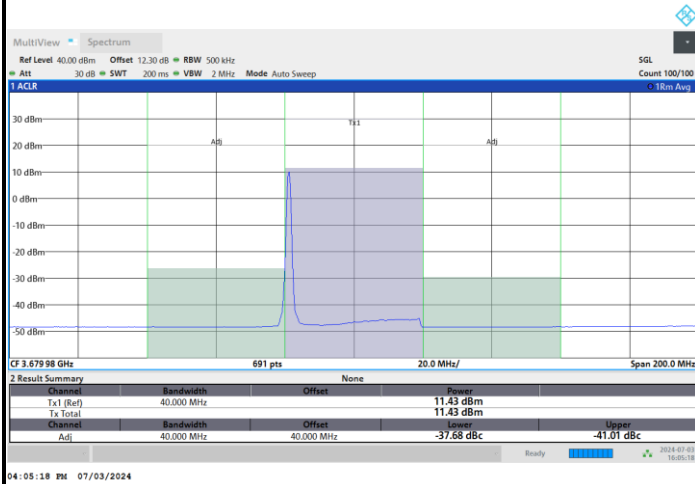




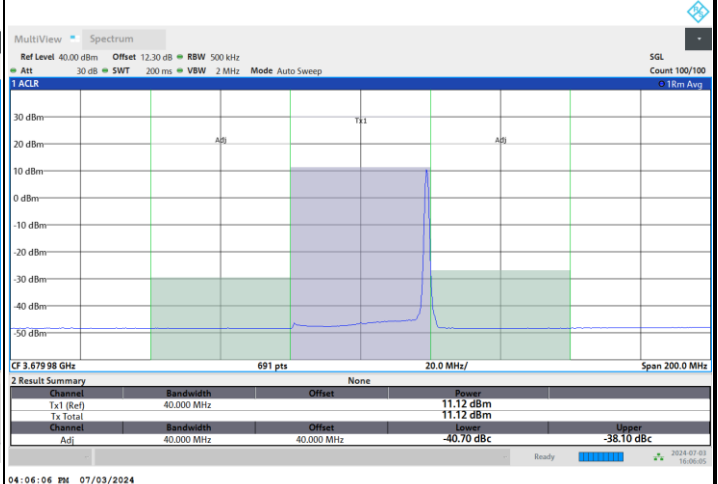
FR1 n48 / 40MHz / DFT-S OFDM / 256QAM

Highest Channel

1RB0



1RBmax



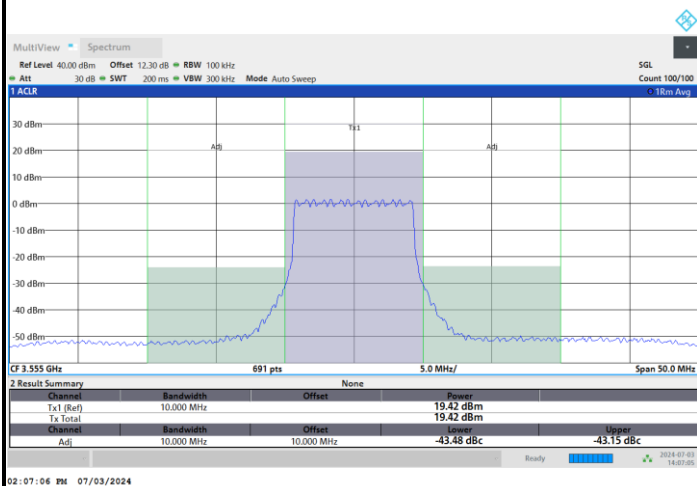
Full RB



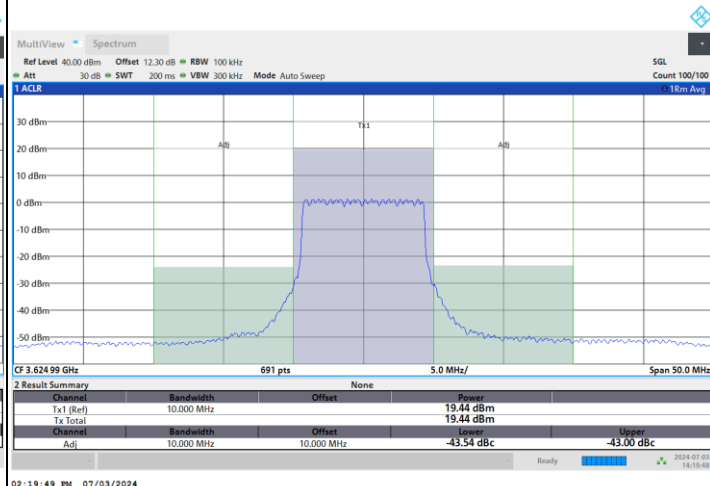


FR1 n48 / 10MHz / CP OFDM / QPSK / Full RB

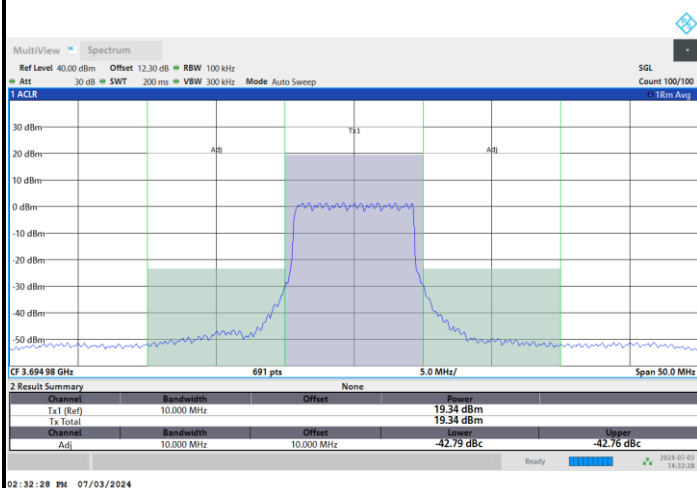
Lowest Channel



Middle Channel



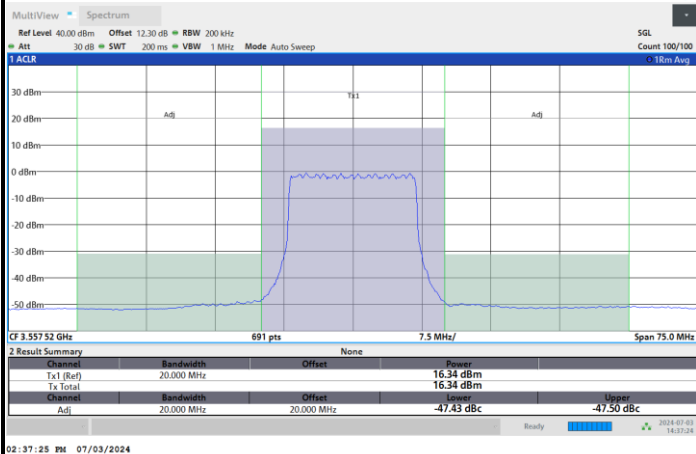
Highest Channel





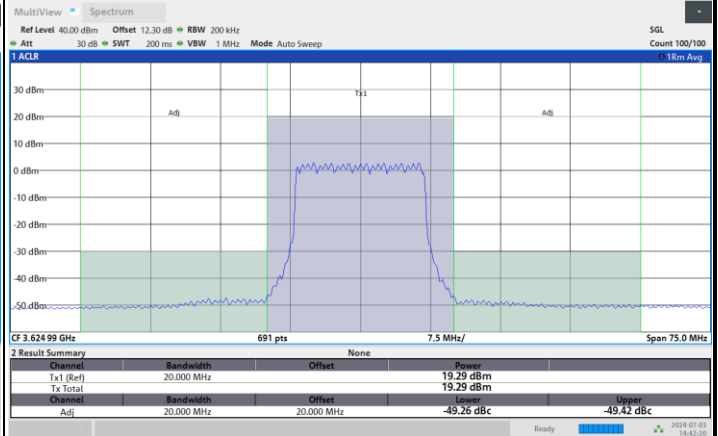
FR1 n48 / 15MHz / CP OFDM / QPSK / Full RB

Lowest Channel



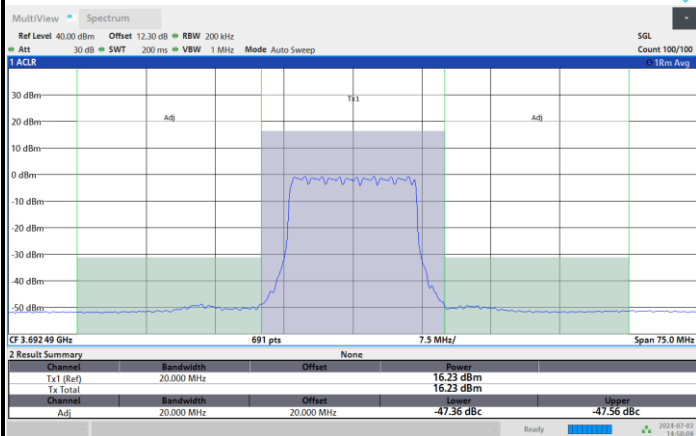
02:37:25 PM 07/03/2024

Middle Channel



02:42:20 PM 07/03/2024

Highest Channel

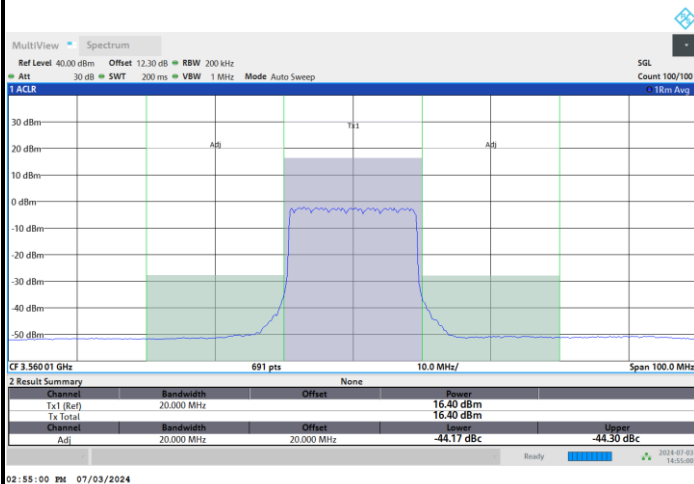


02:50:05 PM 07/03/2024

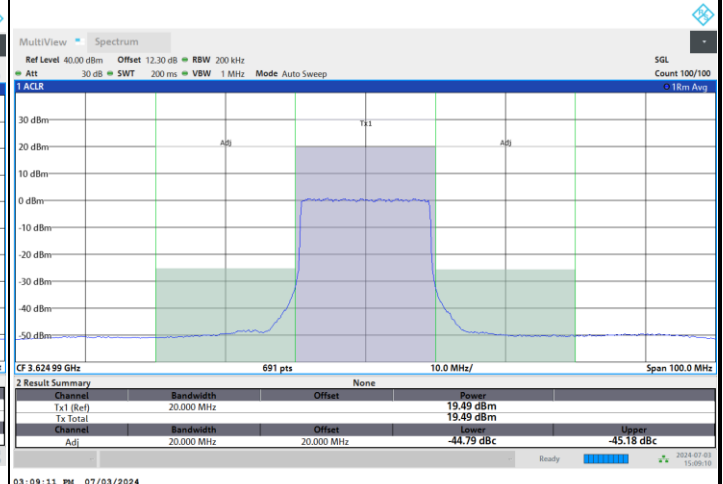


FR1 n48 / 20MHz / CP OFDM / QPSK / Full RB

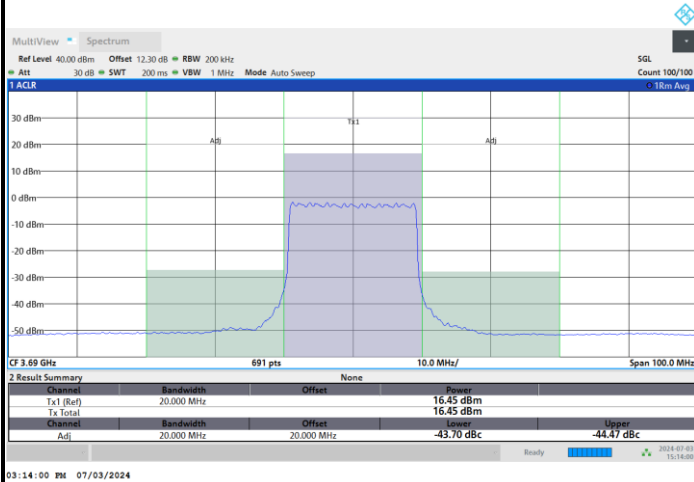
Lowest Channel



Middle Channel



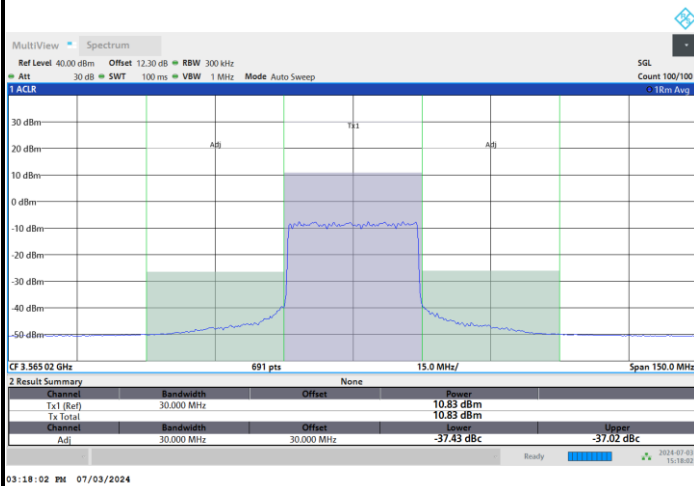
Highest Channel





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

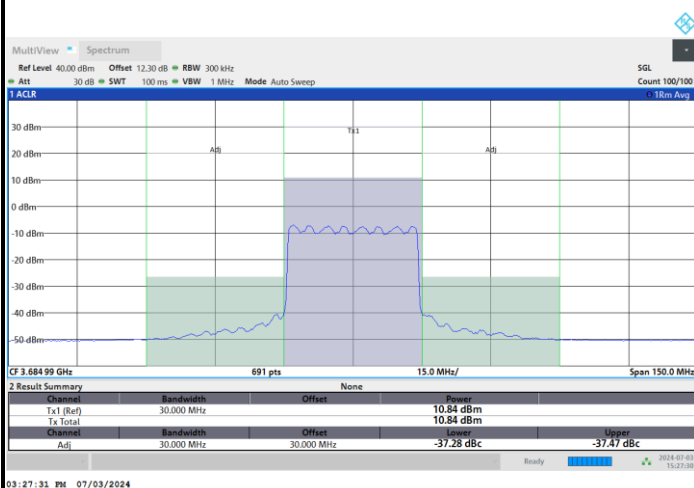
Lowest Channel



Middle Channel



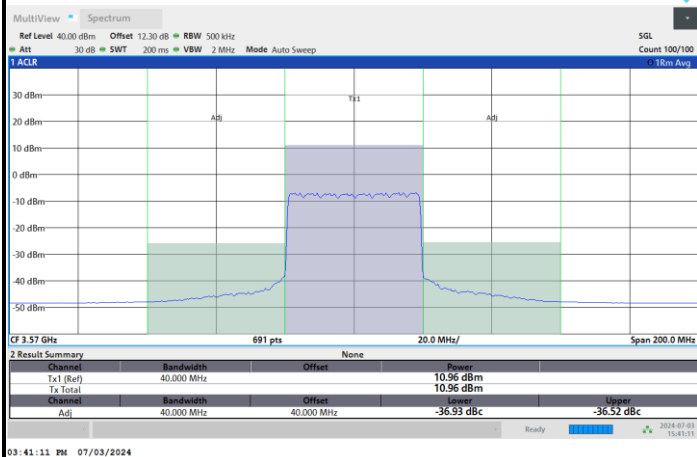
Highest Channel



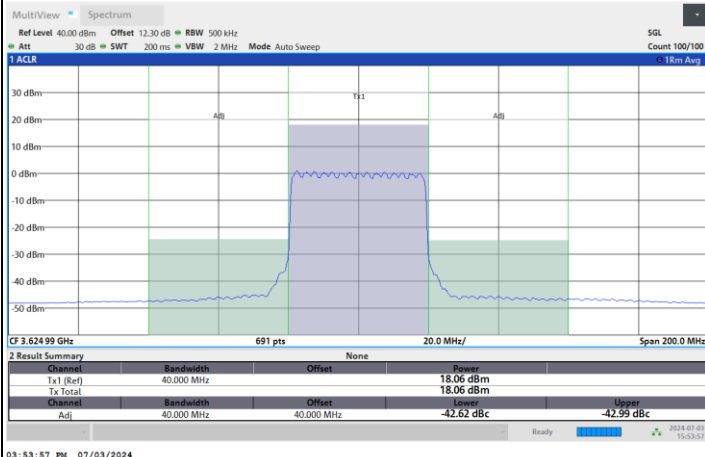


FR1 n48 / 40MHz / CP OFDM / QPSK / Full RB

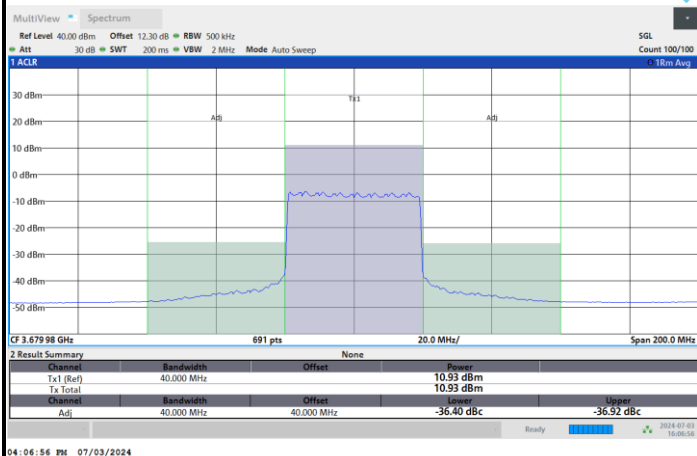
Lowest Channel



Middle Channel



Highest Channel

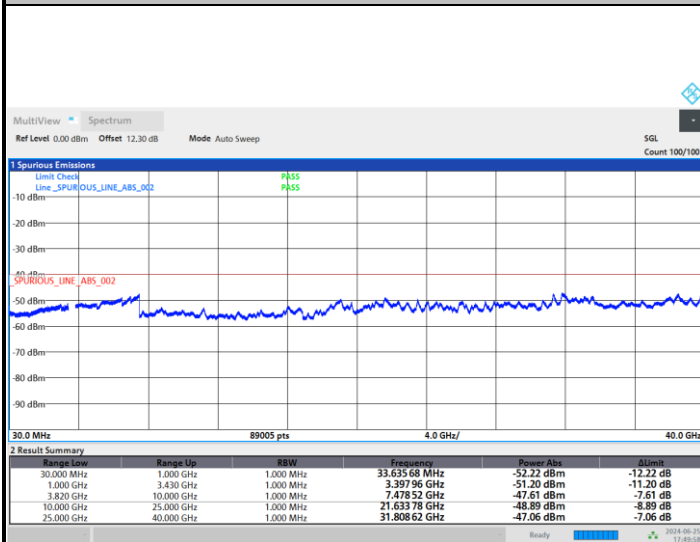




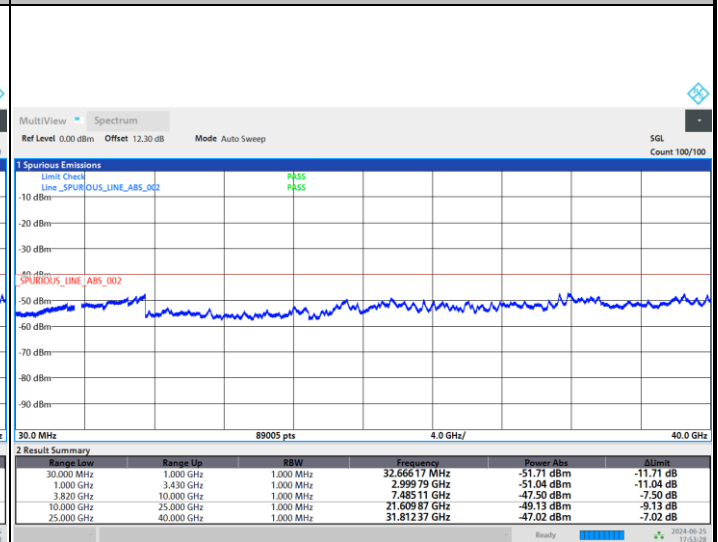
Conducted Spurious Emission

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

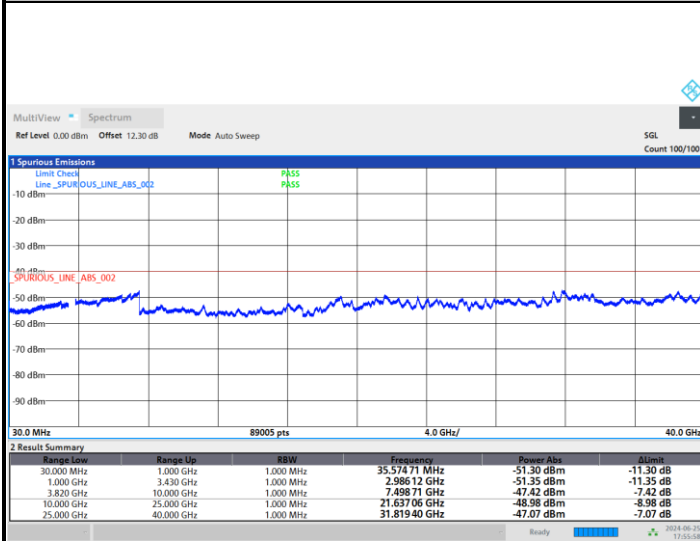
Lowest Channel



Middle Channel



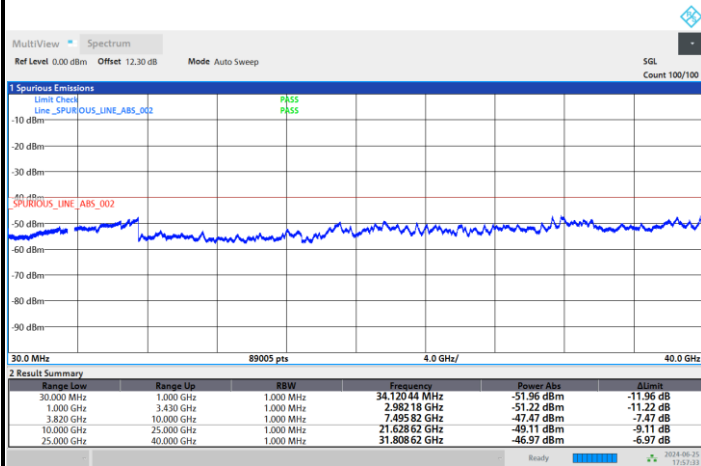
Highest Channel





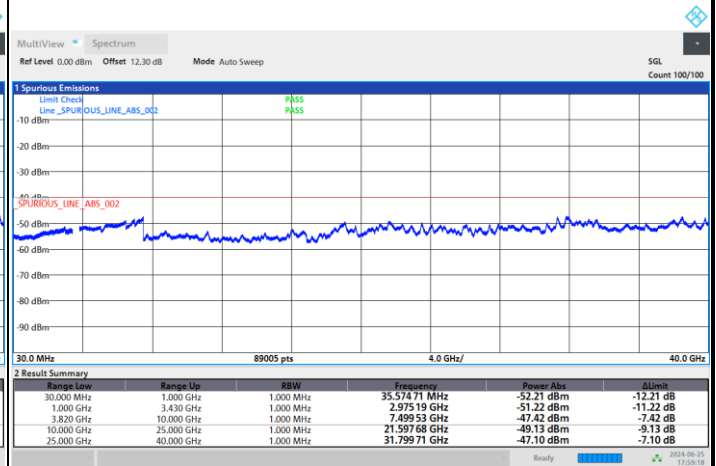
FR1 n48 / 15MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



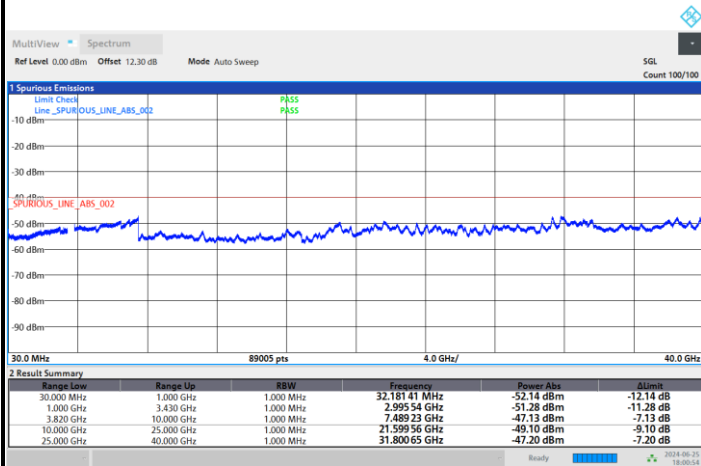
05:57:33 PM 06/25/2024

Middle Channel



05:59:19 PM 06/25/2024

Highest Channel

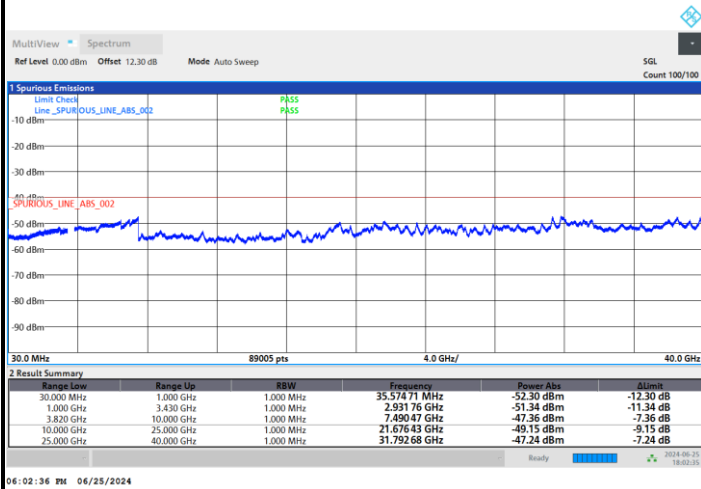


06:00:54 PM 06/25/2024

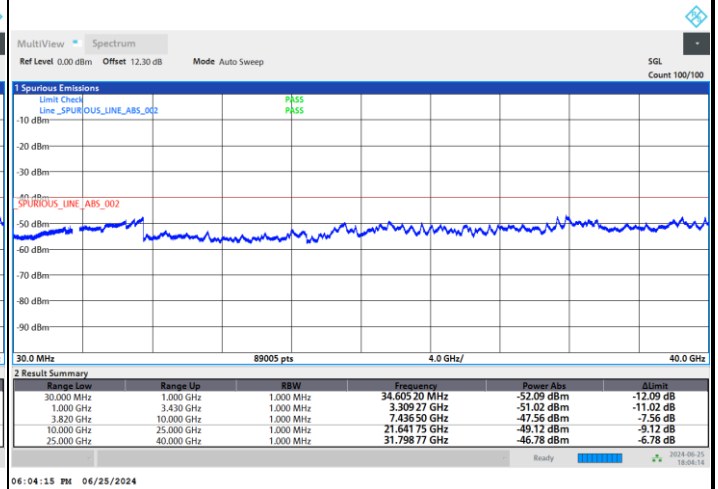


FR1 n48 / 20MHz / DFT-S OFDM / QPSK / 1RB1

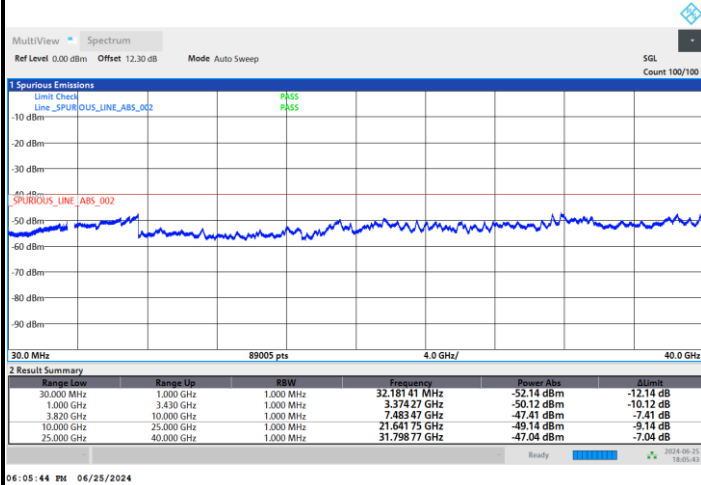
Lowest Channel



Middle Channel



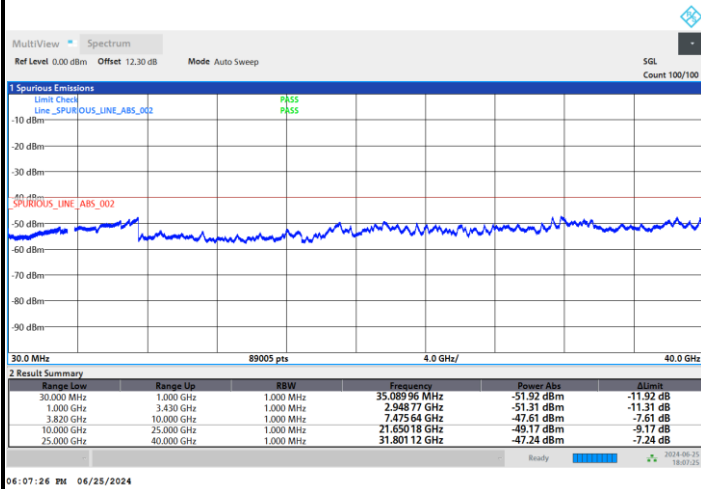
Highest Channel



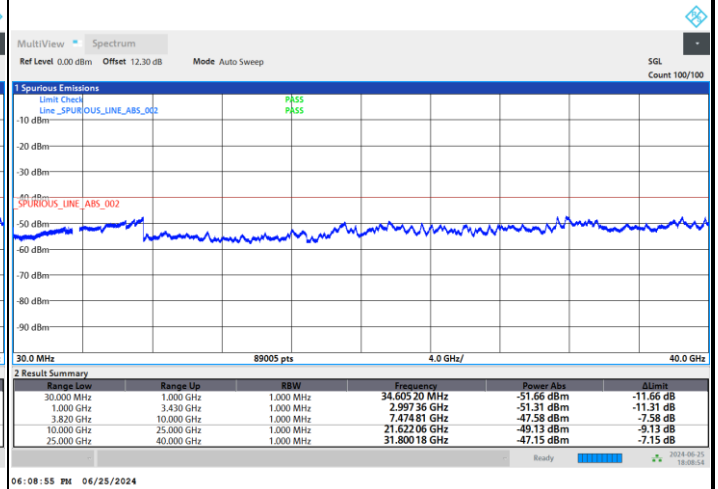


FR1 n48 / 30MHz / DFT-S OFDM / QPSK / 1RB1

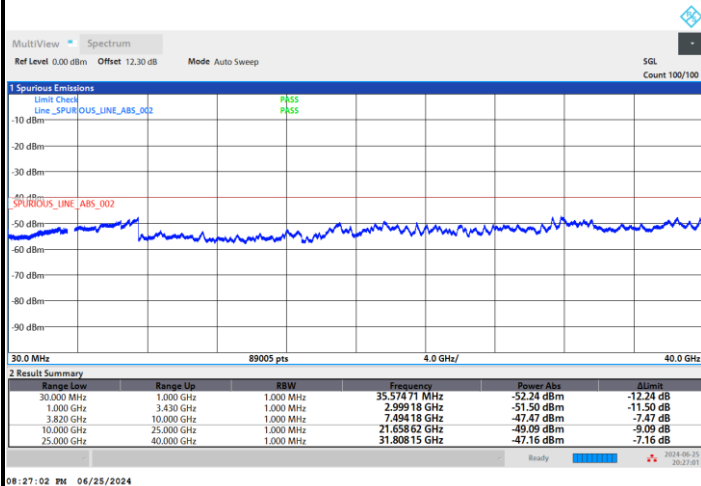
Lowest Channel



Middle Channel



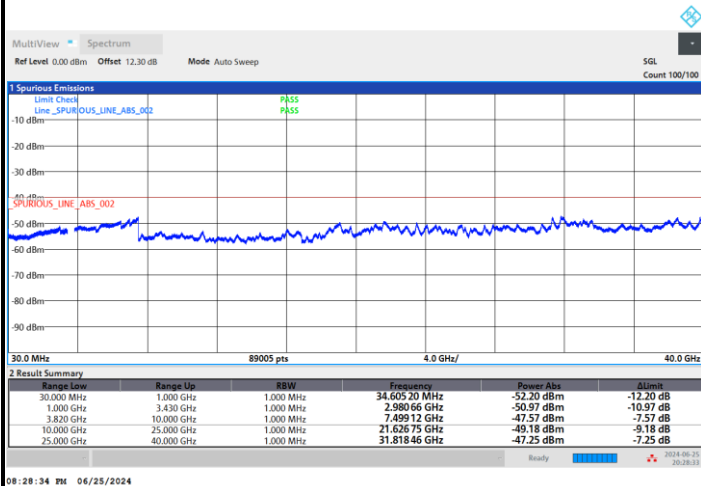
Highest Channel



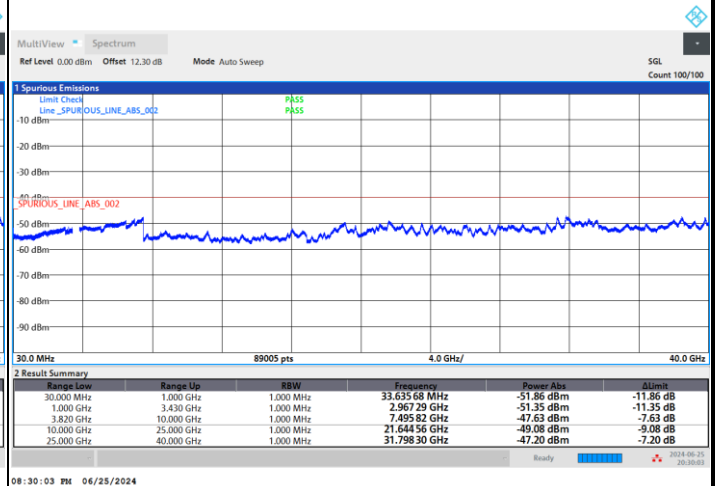


FR1 n48 / 40MHz / DFT-S OFDM / QPSK / 1RB1

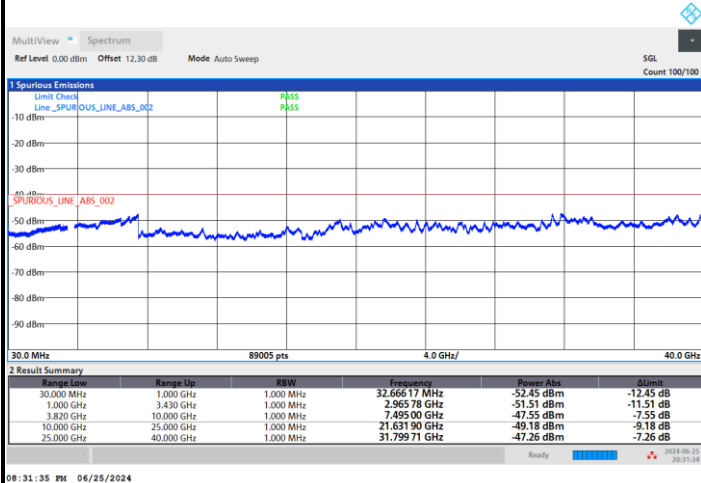
Lowest Channel



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	0.0018	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0043	
-30	Normal Voltage	0.0068	
20	Maximum Voltage	0.0059	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.465 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

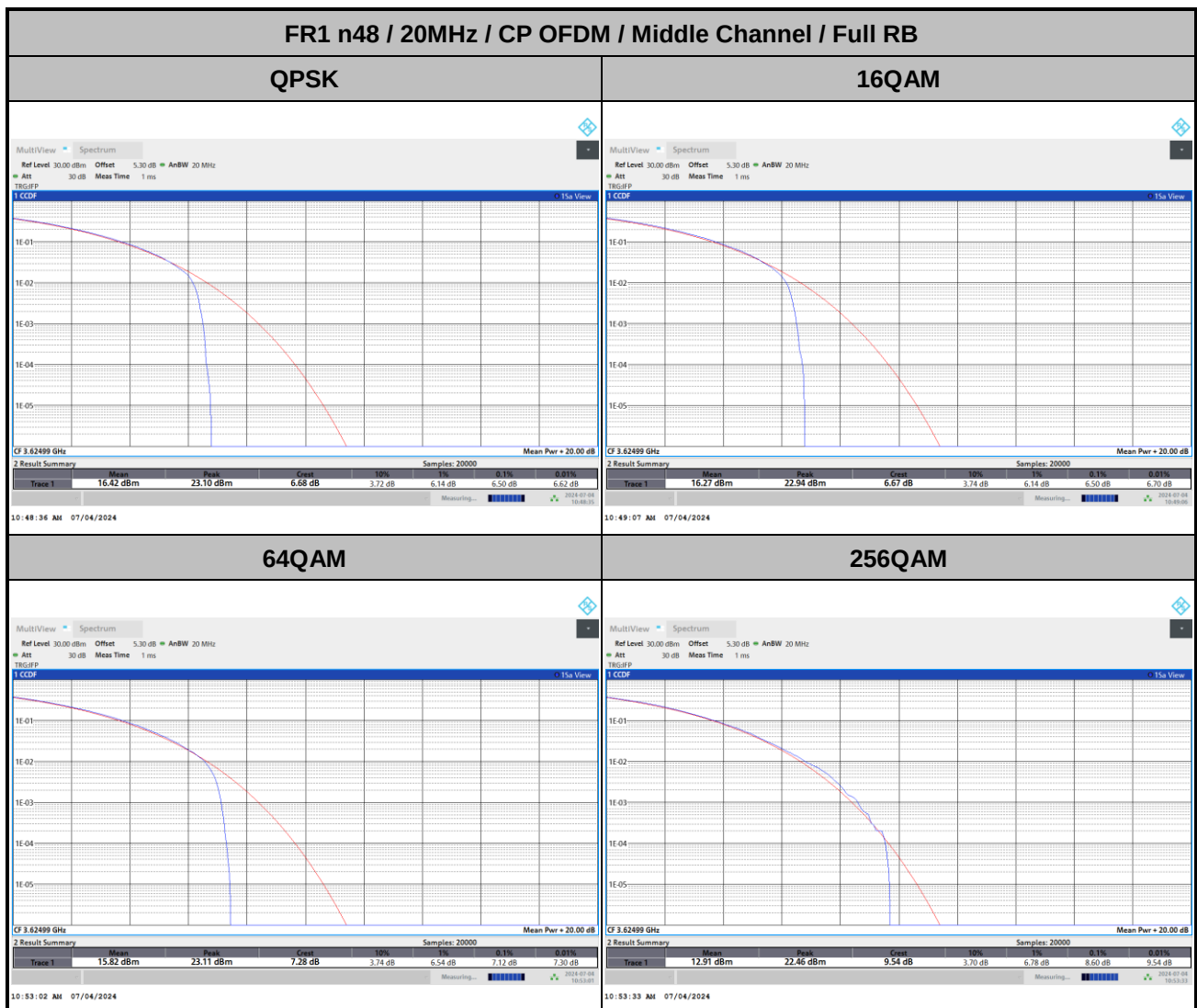


<MIMO Mode>

<Ant. 2>

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	6.50	6.50	7.12	8.60	PASS



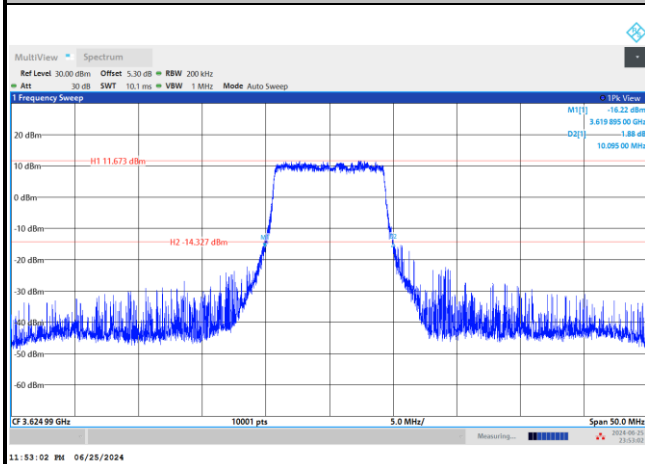
**26dB Bandwidth**

Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM					
BW	10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.09	10.52	15.58	16.19	21.11	21.23
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.36	10.06	17.52	15.40	23.56	20.85
BW	30MHz		40MHz		-	
Mod.	QPSK	16QAM	QPSK	16QAM	-	-
Middle CH	33.03	34.28	45.47	44.78	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	-	-
Middle CH	36.70	31.32	44.83	41.62	-	-

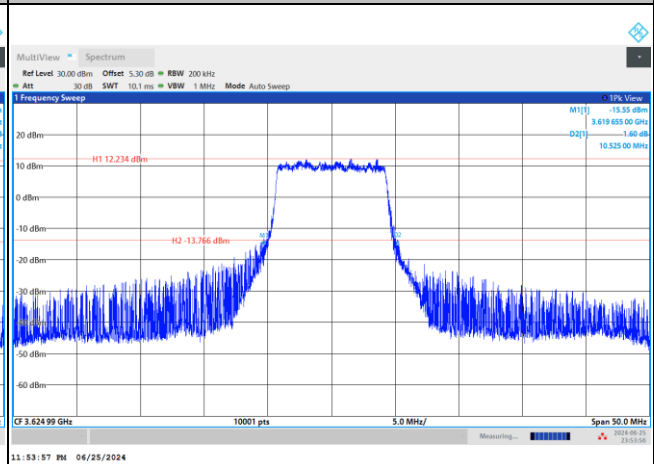


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

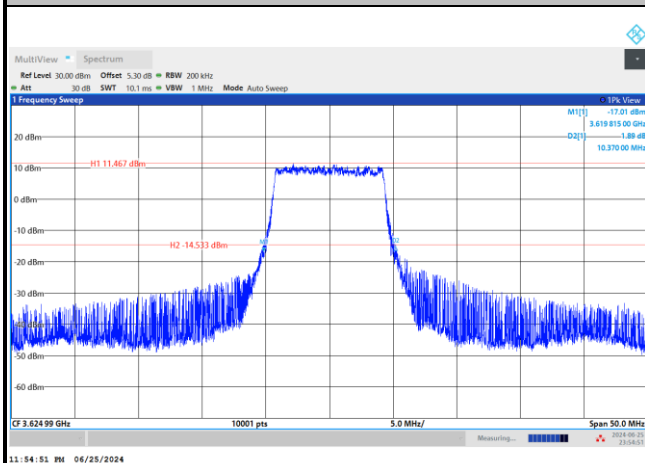
QPSK



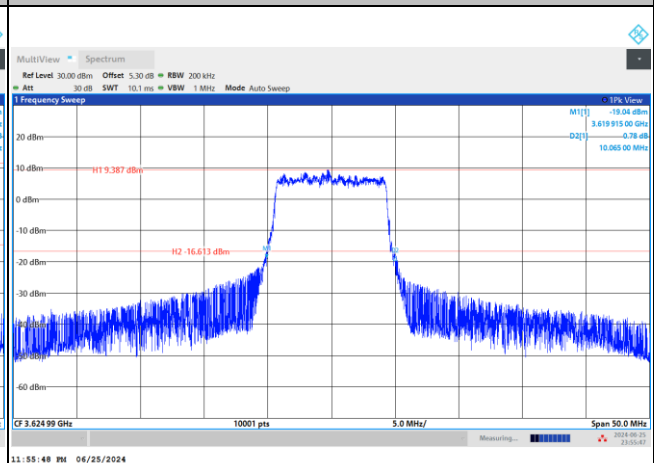
16QAM

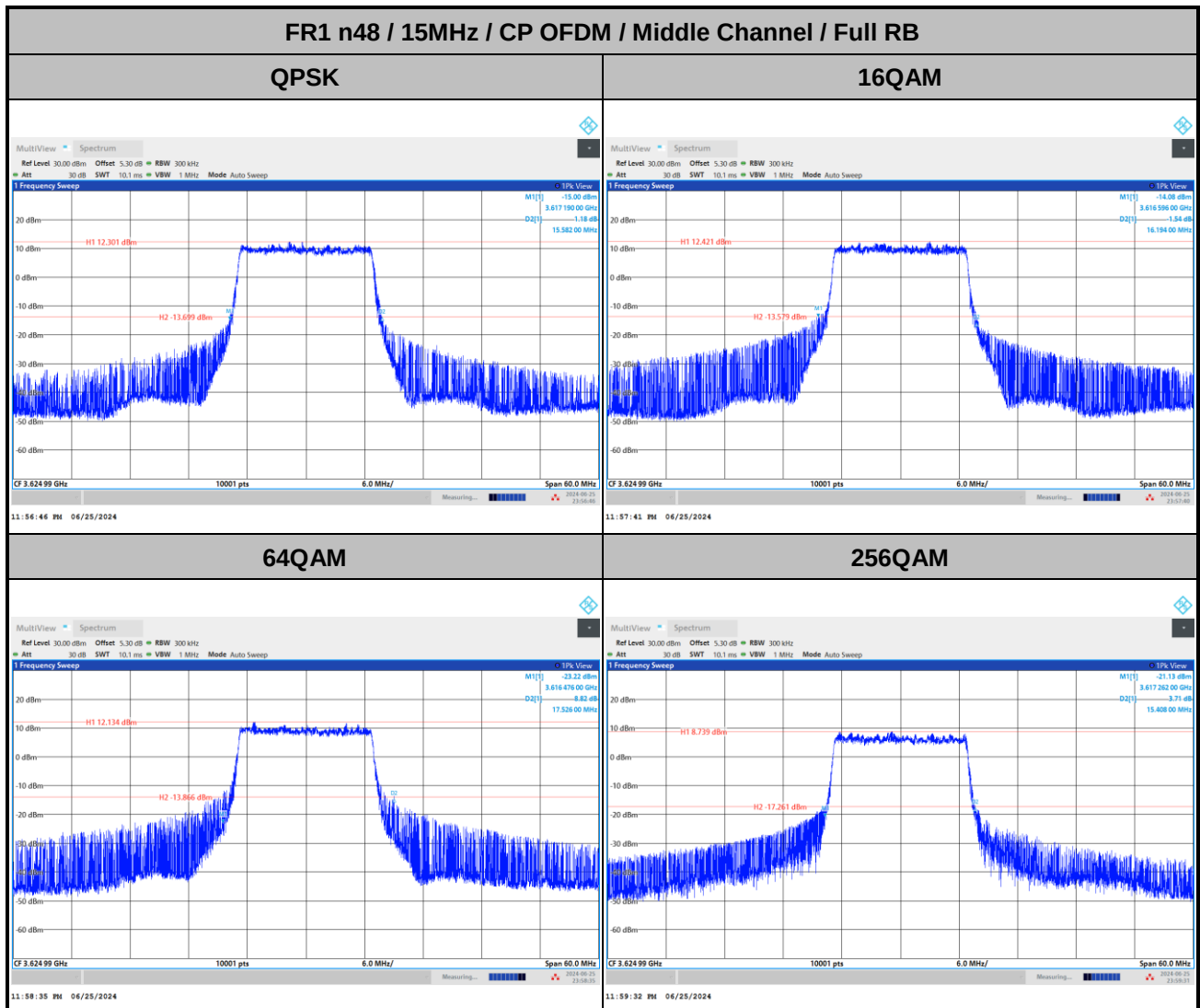


64QAM



256QAM

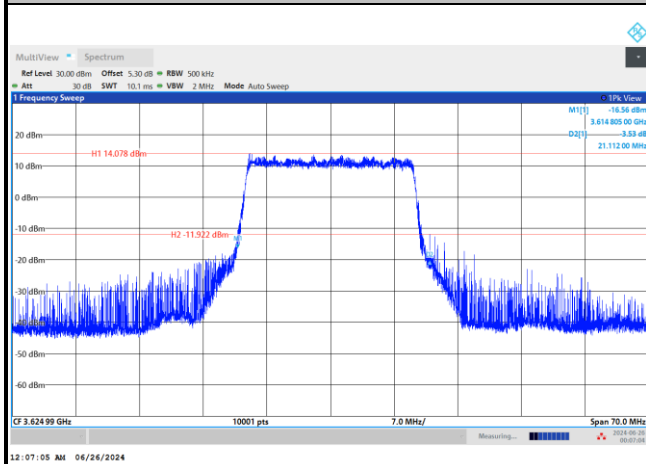






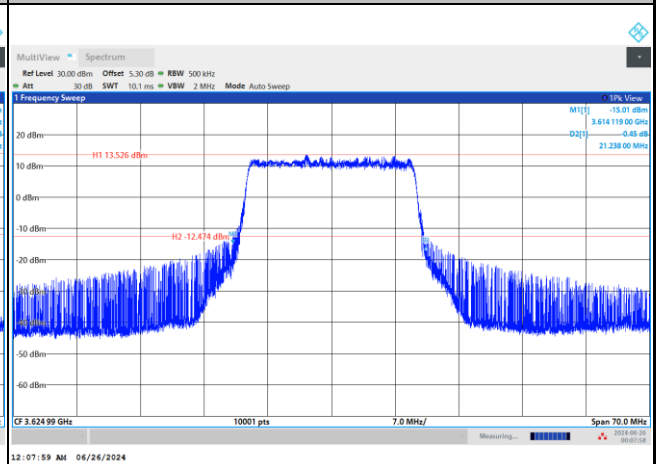
FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



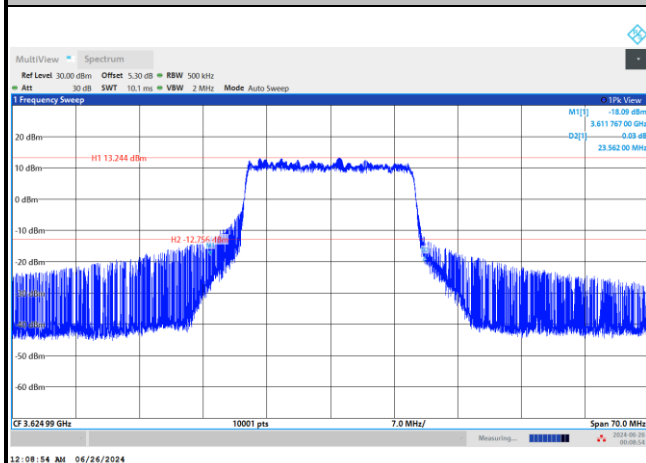
12:07:05 AM 06/26/2024

16QAM



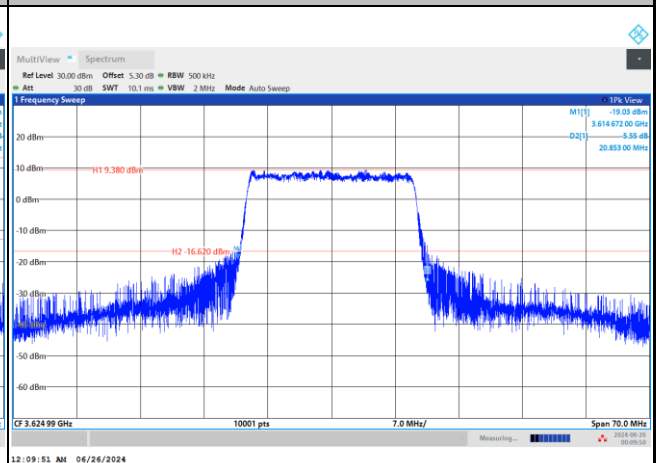
12:07:59 AM 06/26/2024

64QAM



12:08:54 AM 06/26/2024

256QAM

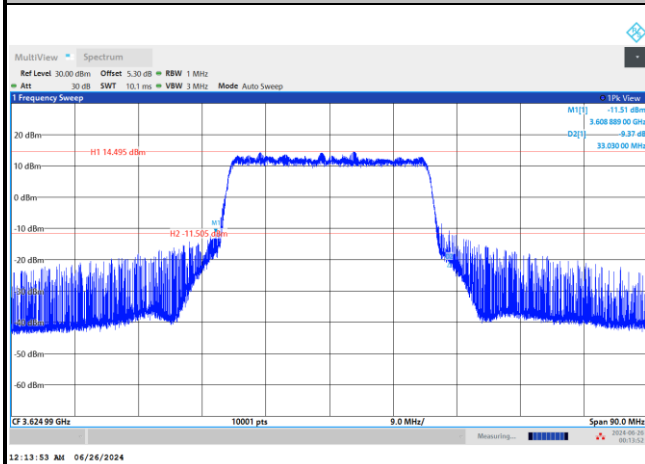


12:09:51 AM 06/26/2024

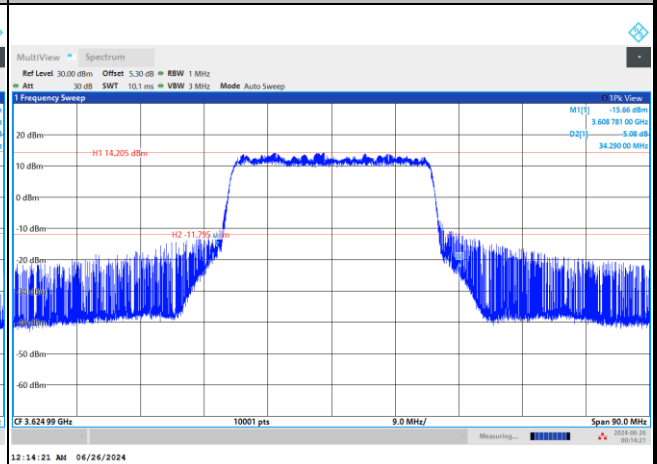


FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

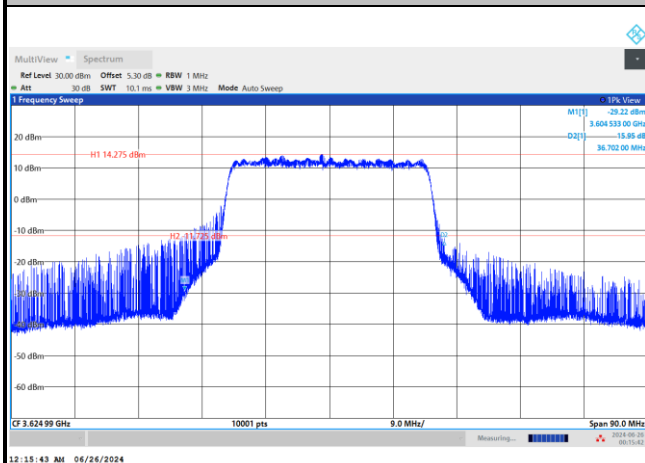
QPSK



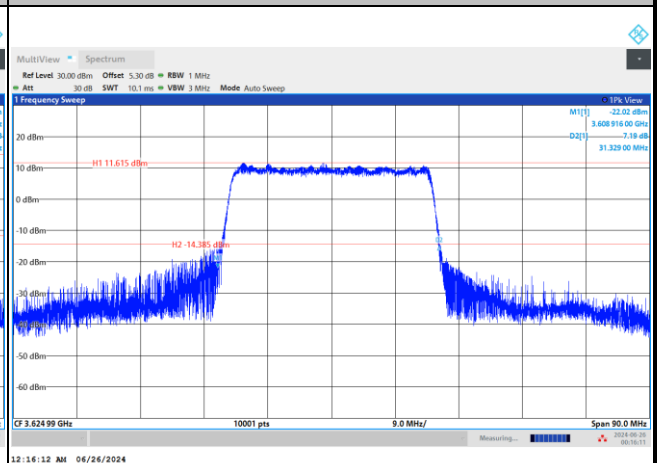
16QAM



64QAM



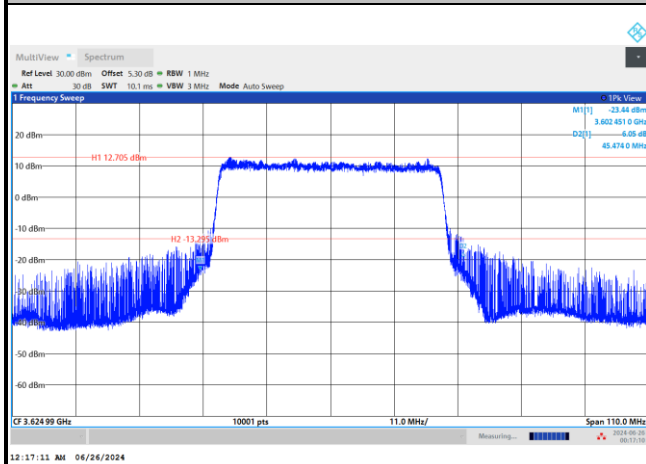
256QAM





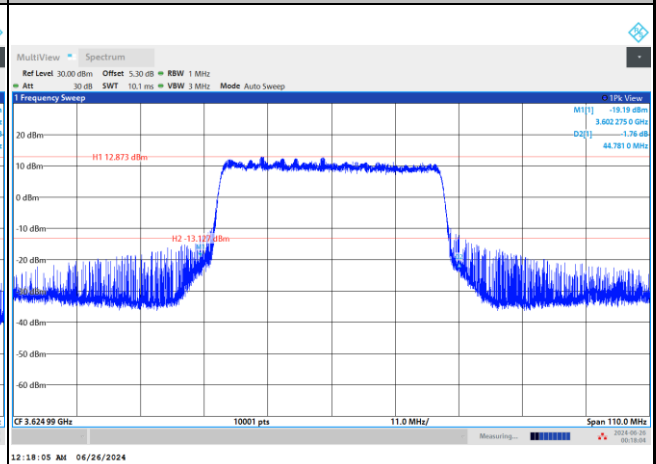
FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



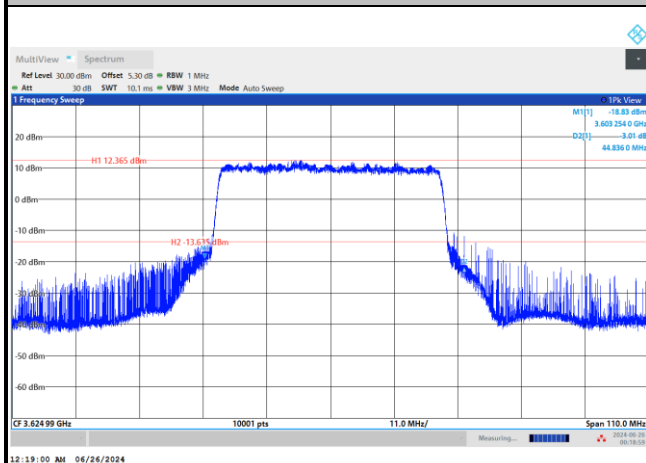
12:17:11 AM 06/26/2024

16QAM



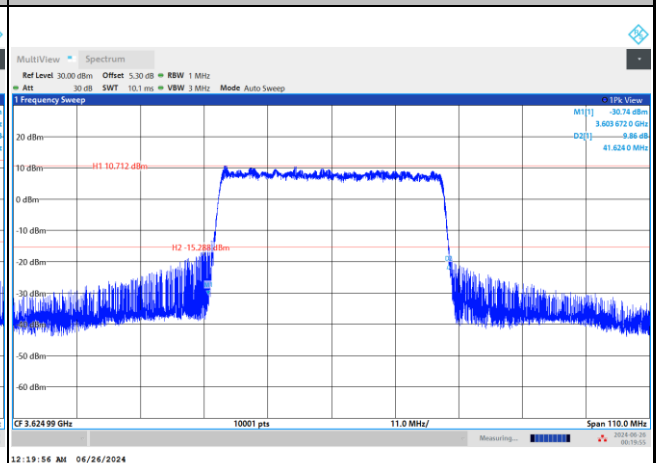
12:18:05 AM 06/26/2024

64QAM



12:19:00 AM 06/26/2024

256QAM



12:19:56 AM 06/26/2024

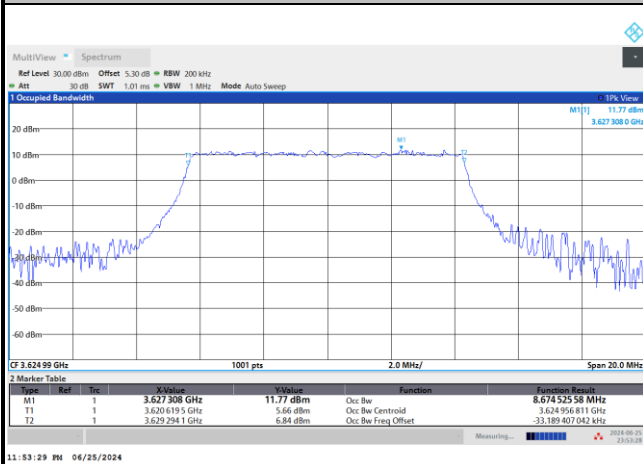
**Occupied Bandwidth**

Mode	FR1 n48 : OB BW(MHz) / CP OFDM					
BW	10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.67	8.66	13.71	13.69	18.36	18.39
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.69	8.71	13.71	13.68	18.40	18.33
BW	30MHz		40MHz		-	
Mod.	QPSK	16QAM	QPSK	16QAM	-	-
Middle CH	28.21	28.23	38.07	38.00	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	-	-
Middle CH	28.29	28.24	38.14	38.27	-	-



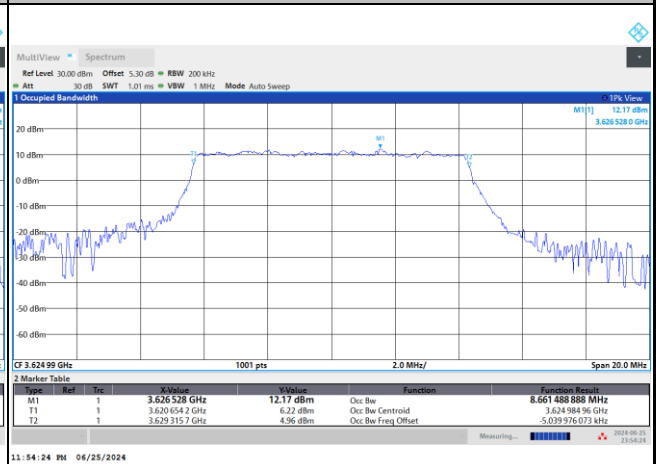
FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



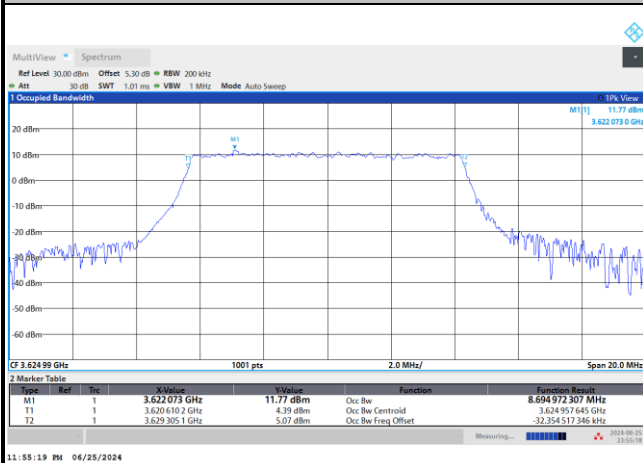
11:53:29 PM 06/25/2024

16QAM



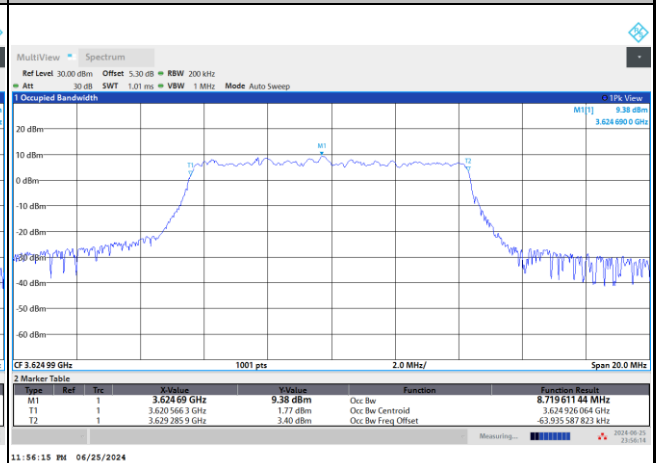
11:54:24 PM 06/25/2024

64QAM



11:55:19 PM 06/25/2024

256QAM

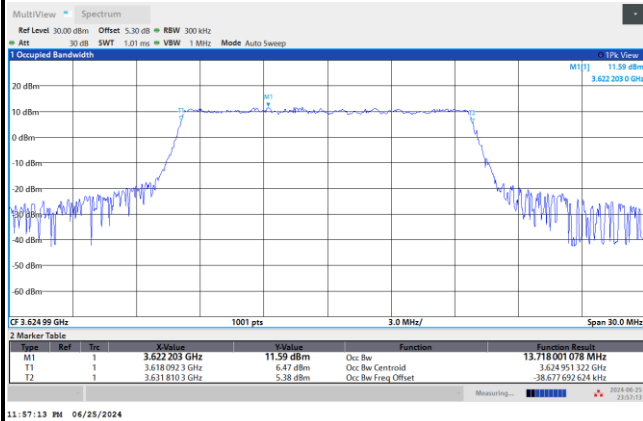


11:56:15 PM 06/25/2024

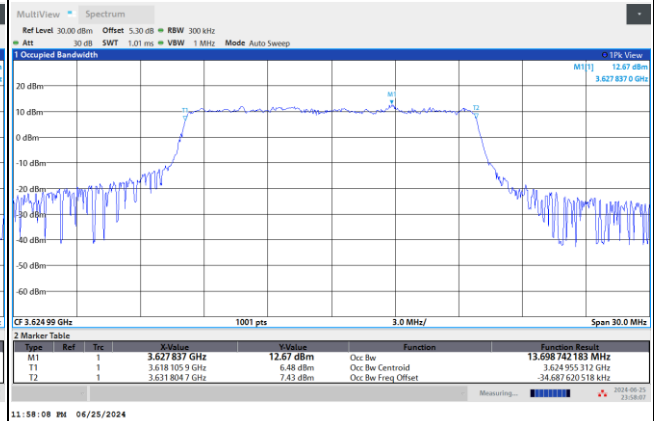


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

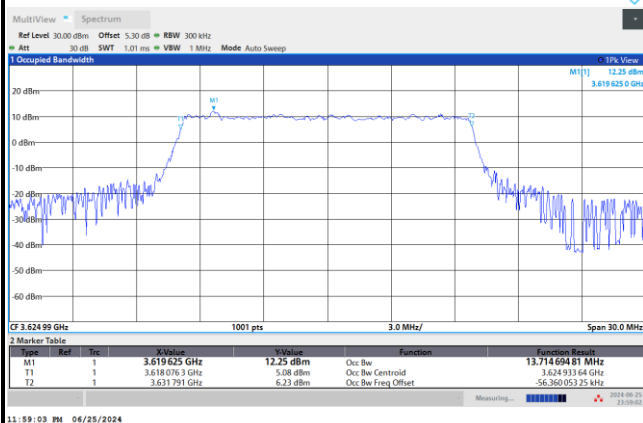
QPSK



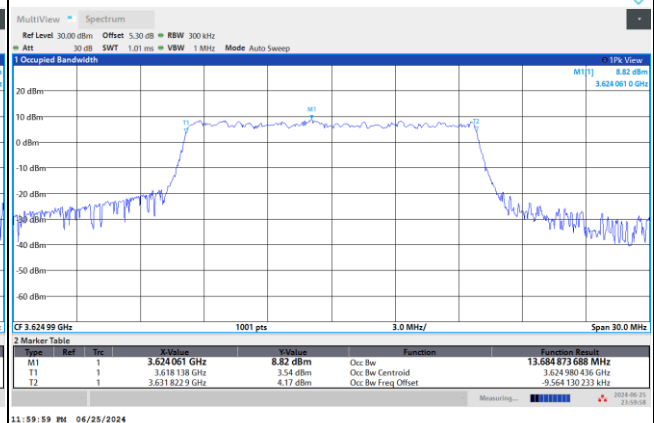
16QAM



64QAM



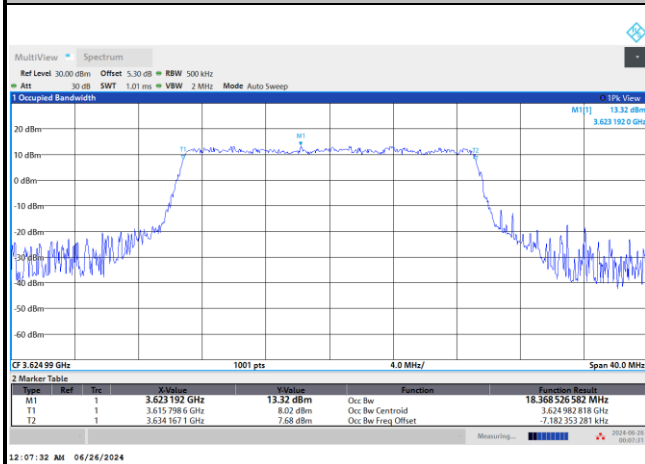
256QAM





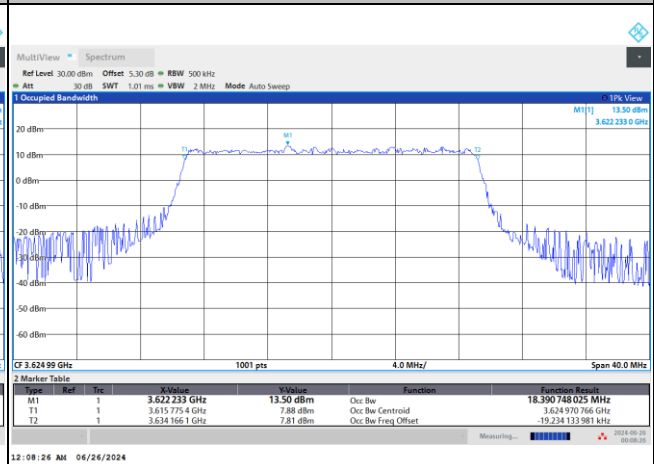
FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



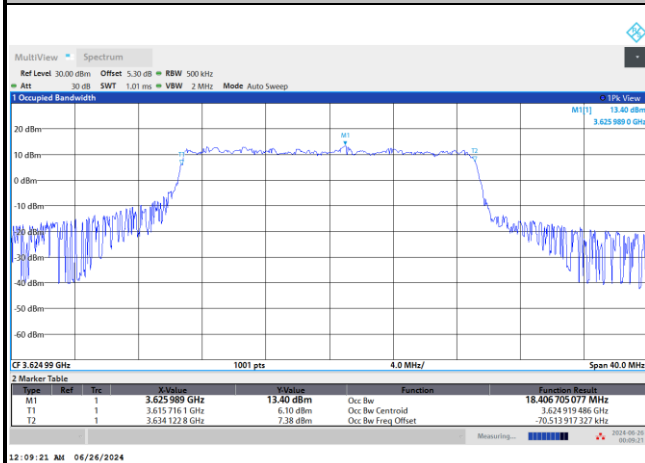
12:07:32 AM 06/26/2024

16QAM



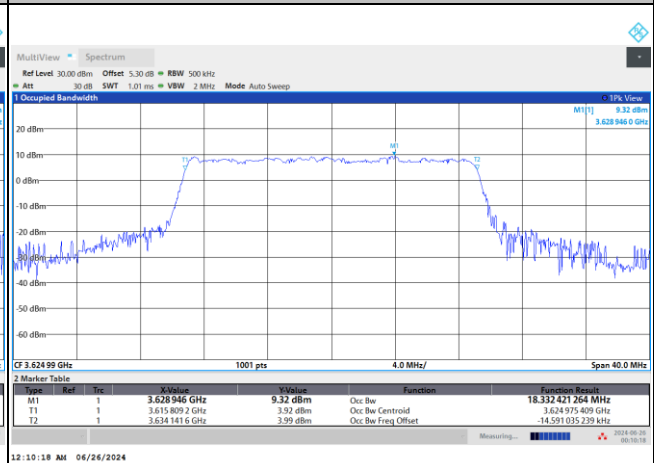
12:08:26 AM 06/26/2024

64QAM



12:09:21 AM 06/26/2024

256QAM



12:10:18 AM 06/26/2024