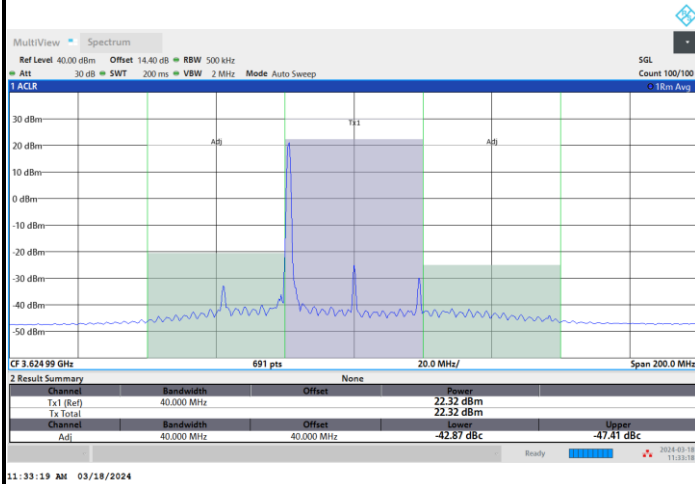




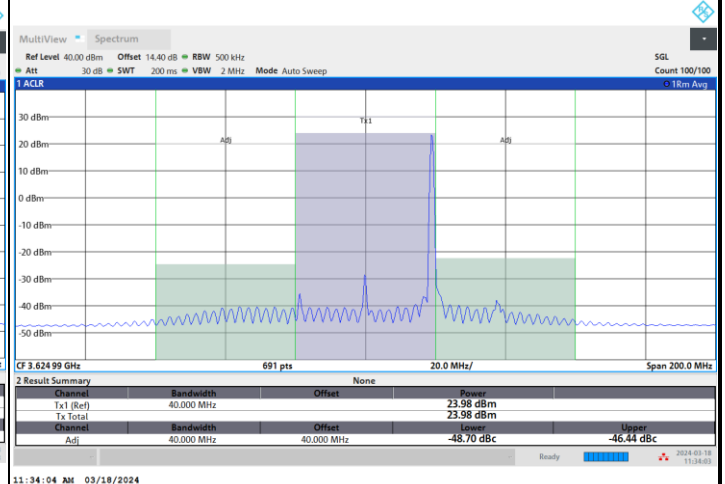
FR1 n48 / 40MHz / CP OFDM / 16QAM

Middle Channel

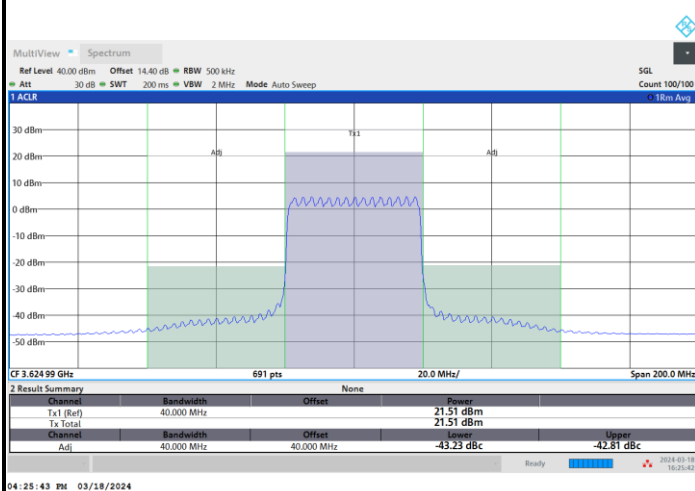
1RB0



1RBmax



Full RB

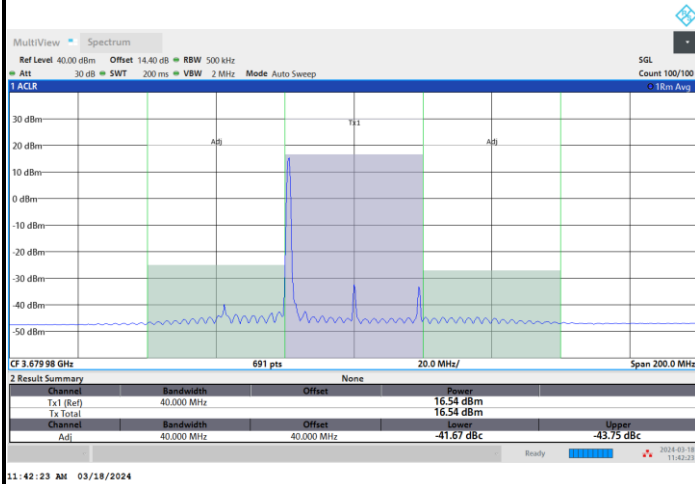




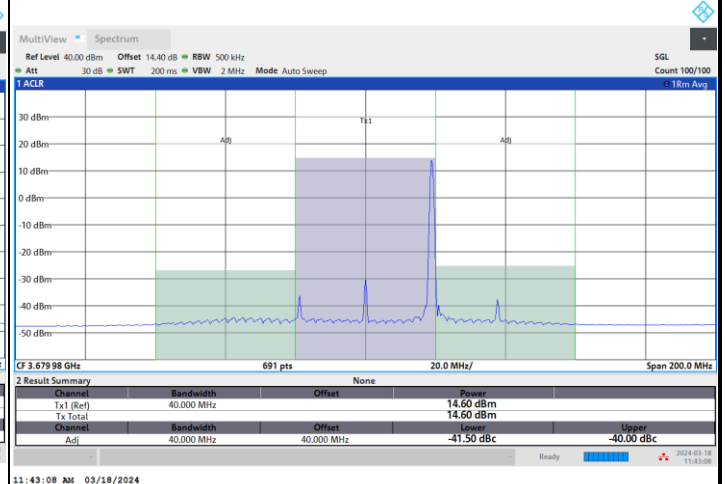
FR1 n48 / 40MHz / CP OFDM / 16QAM

Highest Channel

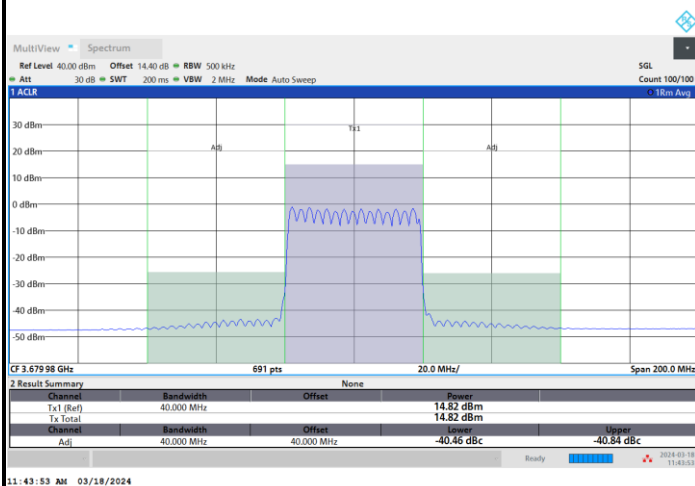
1RB0



1RBmax



Full RB

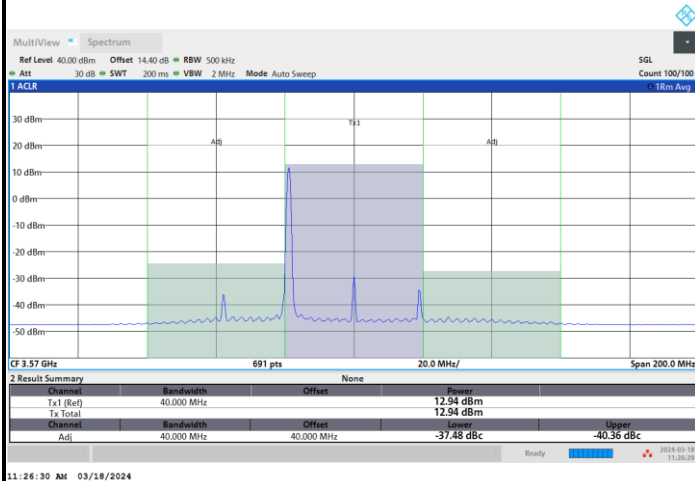




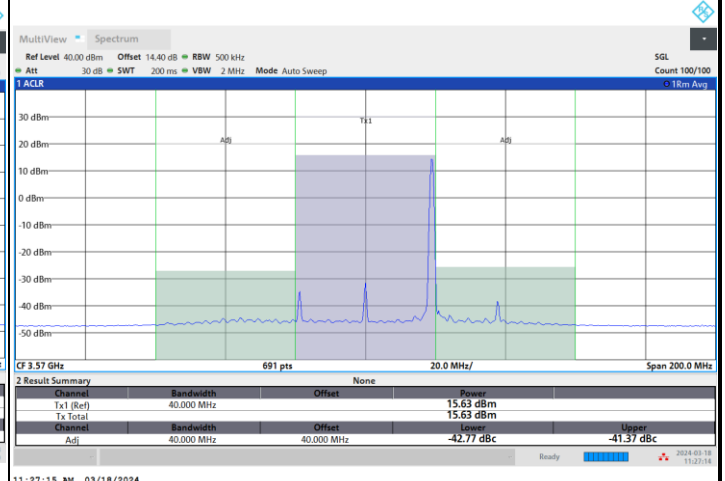
FR1 n48 / 40MHz / CP OFDM / 64QAM

Lowest Channel

1RB0



1RBmax



Full RB





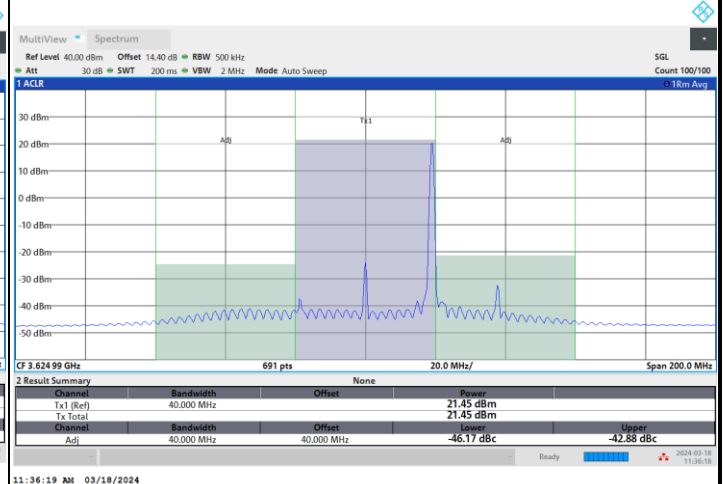
FR1 n48 / 40MHz / CP OFDM / 64QAM

Middle Channel

1RB0



1RBmax



Full RB

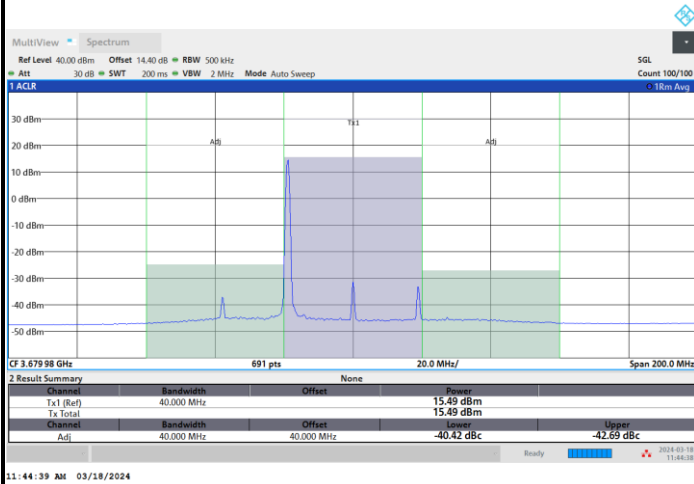




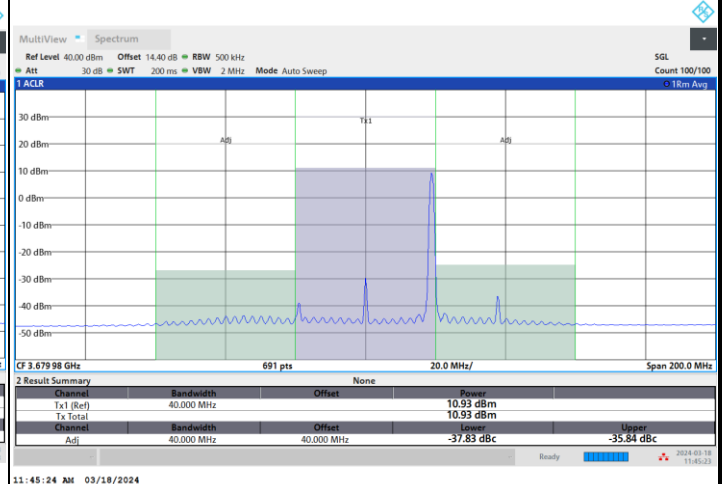
FR1 n48 / 40MHz / CP OFDM / 64QAM

Highest Channel

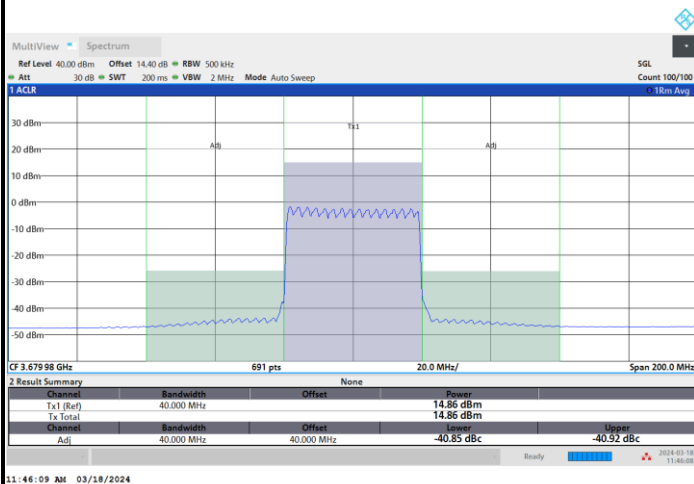
1RB0



1RBmax



Full RB

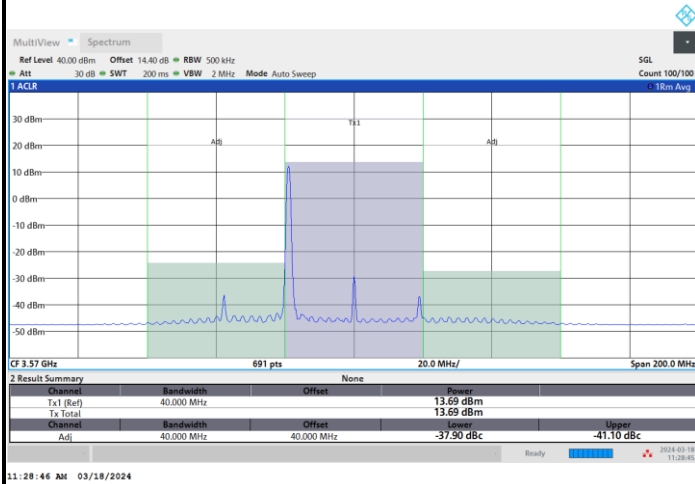




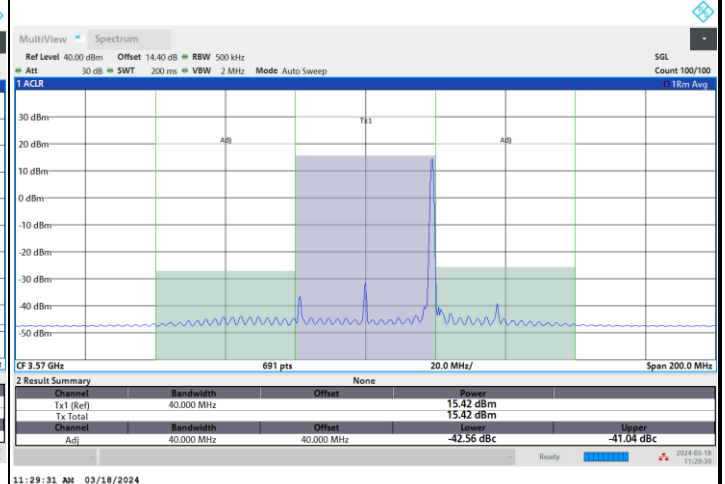
FR1 n48 / 40MHz / CP OFDM / 256QAM

Lowest Channel

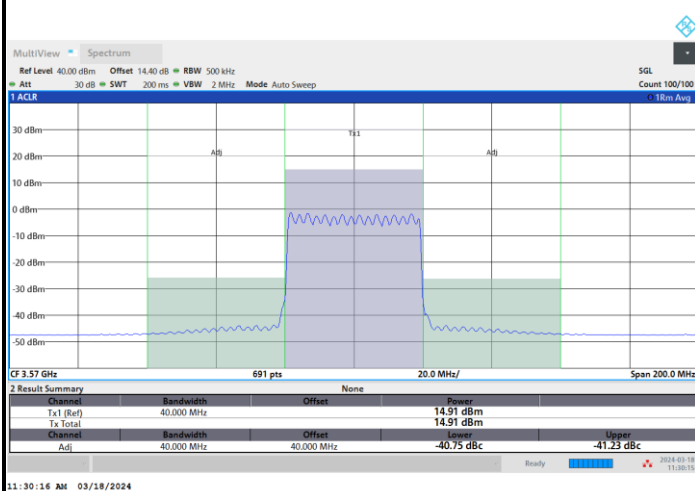
1RB0



1RBmax



Full RB

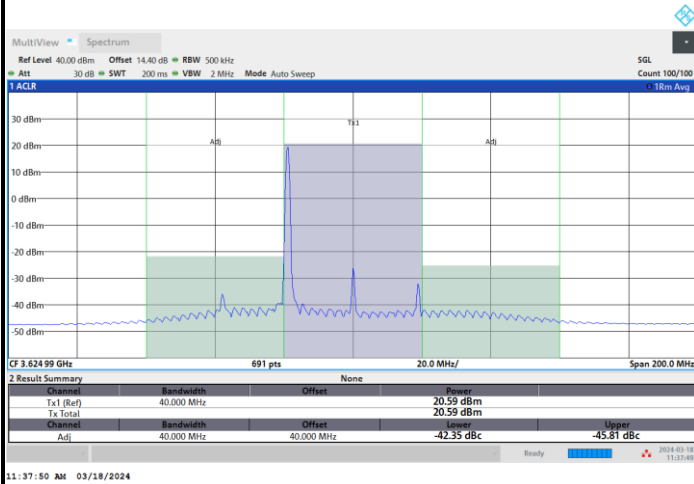




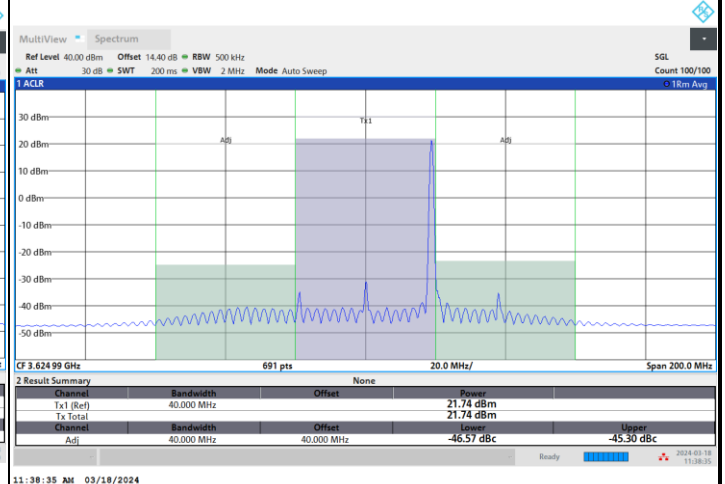
FR1 n48 / 40MHz / CP OFDM / 256QAM

Middle Channel

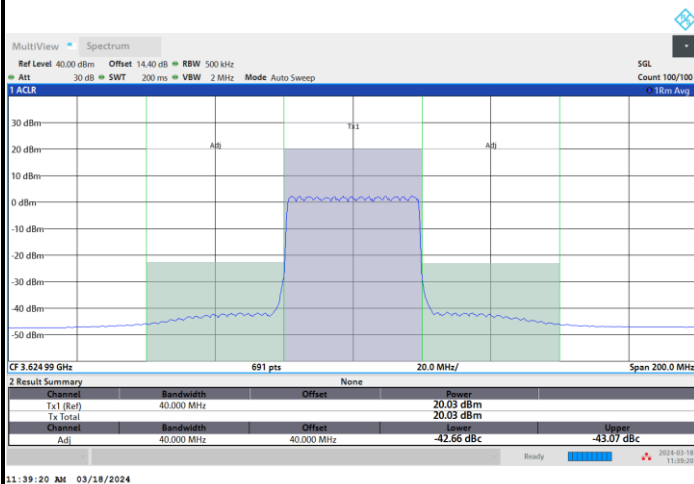
1RB0



1RBmax



Full RB

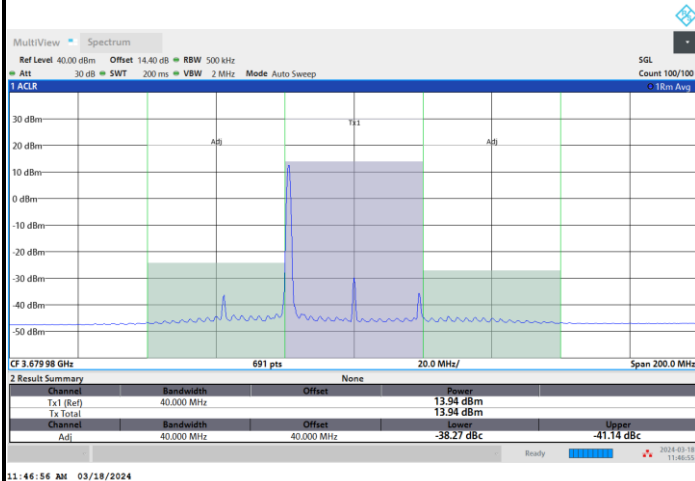




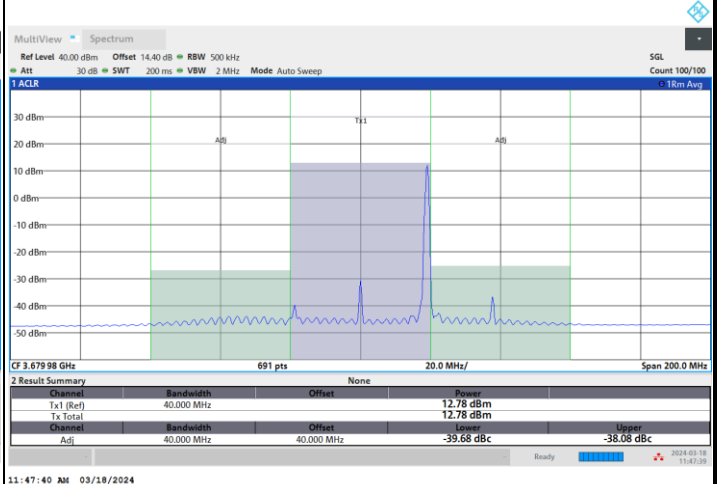
FR1 n48 / 40MHz / CP OFDM / 256QAM

Highest Channel

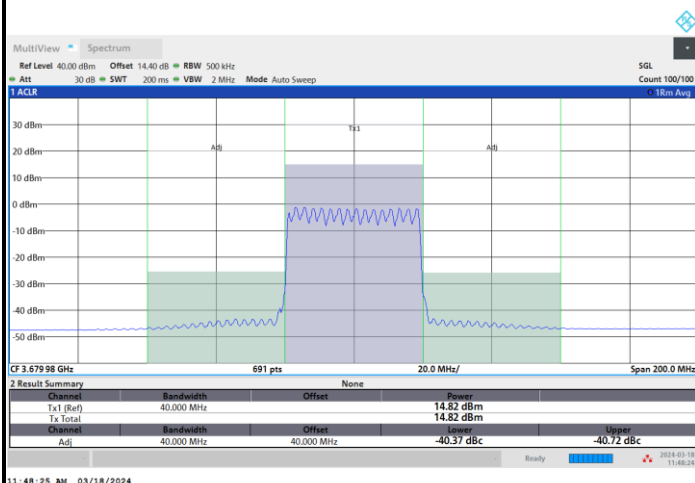
1RB0



1RBmax



Full RB

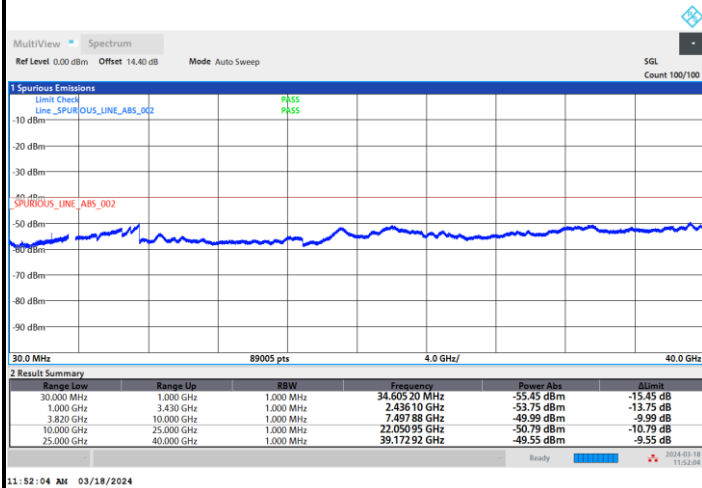




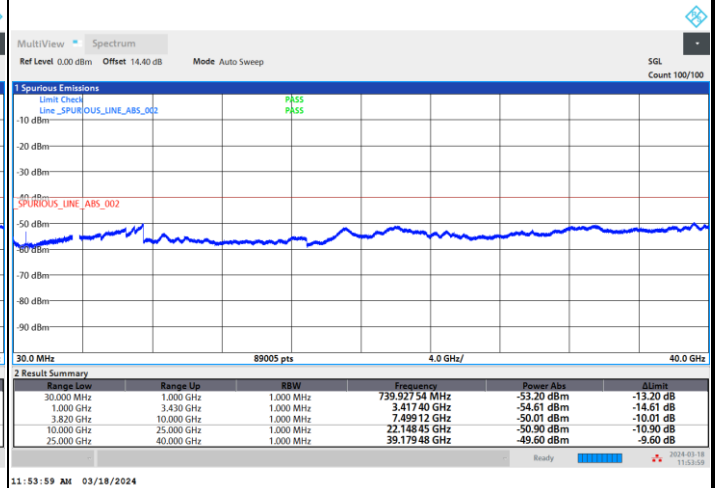
Conducted Spurious Emission

FR1 n48 / 10MHz / CP OFDM / QPSK / 1RB1

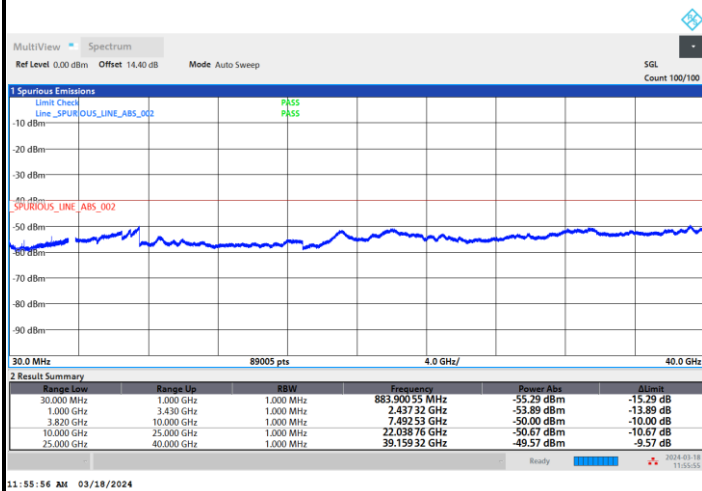
Lowest Channel



Middle Channel



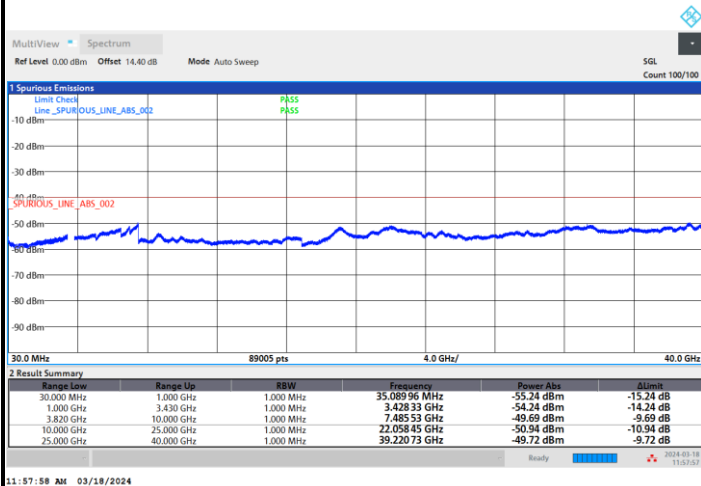
Highest Channel





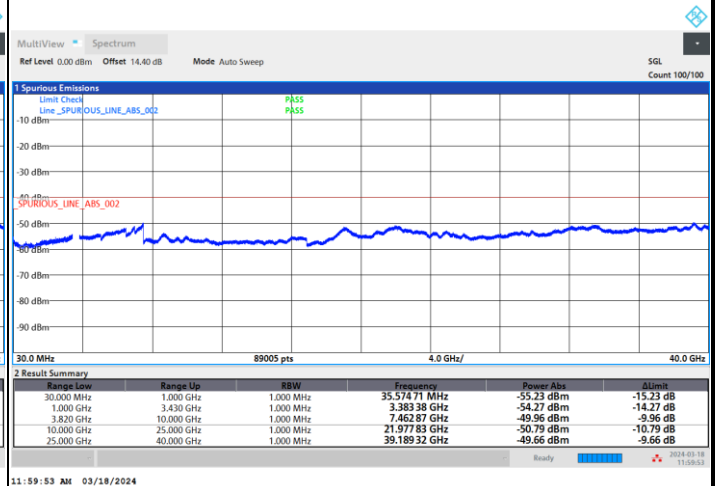
FR1 n48 / 15MHz / CP OFDM / QPSK / 1RB1

Lowest Channel



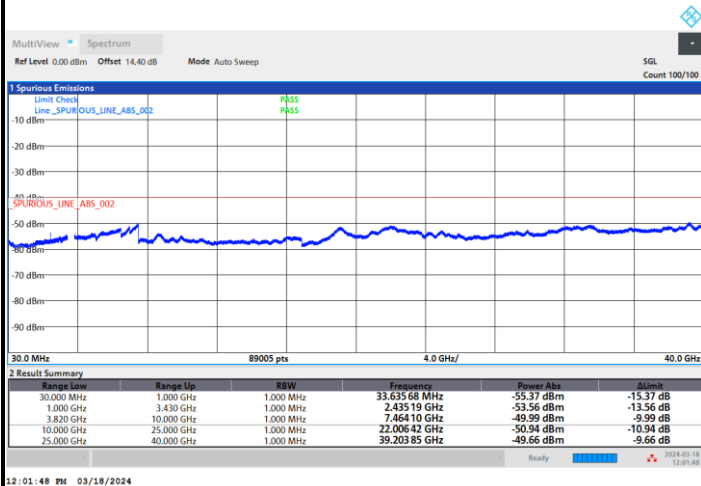
11:57:58 AM 03/18/2024

Middle Channel



11:59:53 AM 03/18/2024

Highest Channel

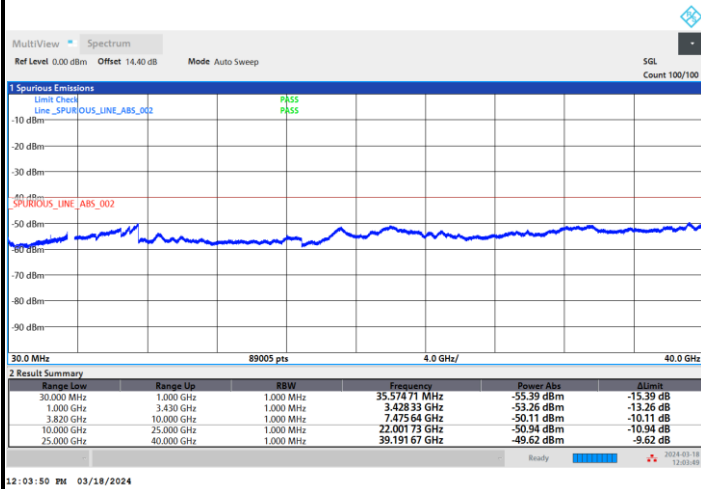


12:01:48 PM 03/18/2024

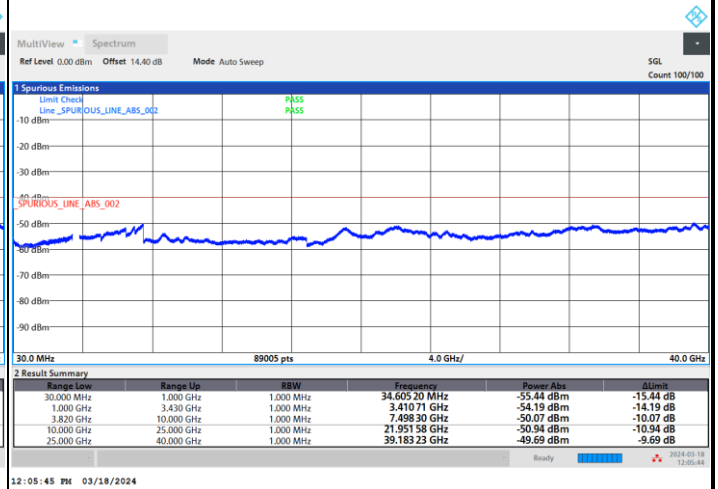


FR1 n48 / 20MHz / CP OFDM / QPSK / 1RB1

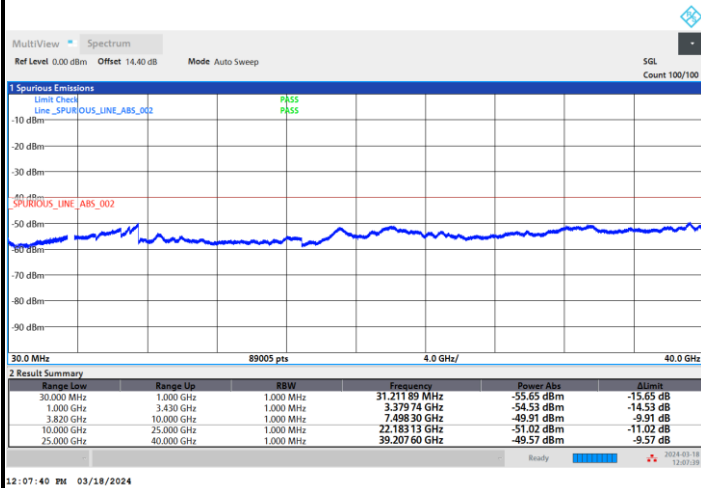
Lowest Channel



Middle Channel



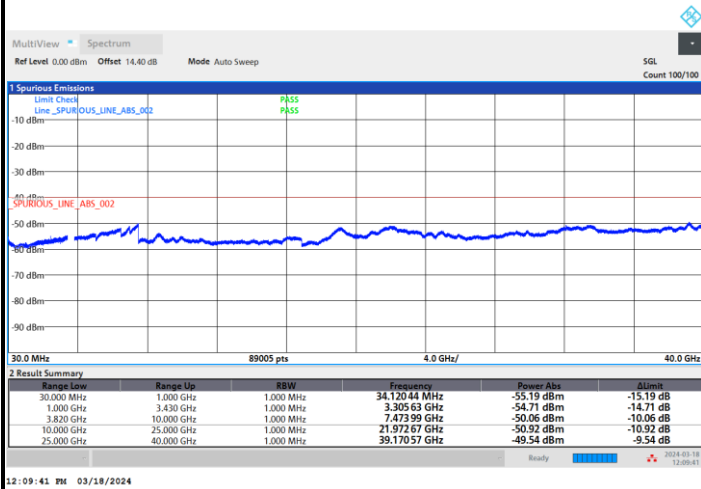
Highest Channel



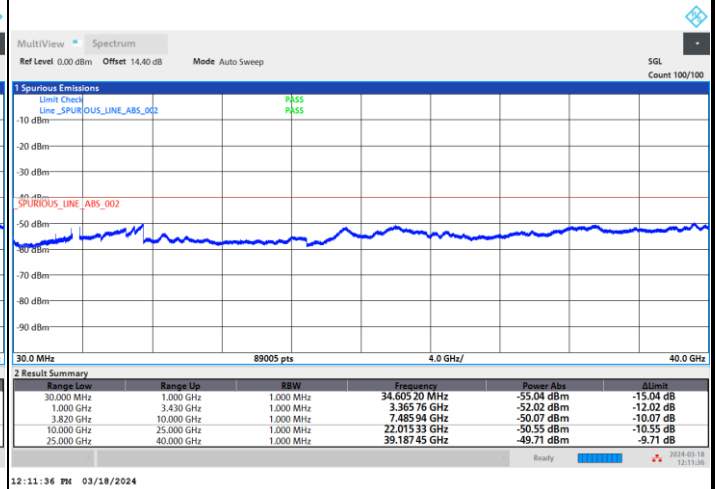


FR1 n48 / 30MHz / CP OFDM / QPSK / 1RB1

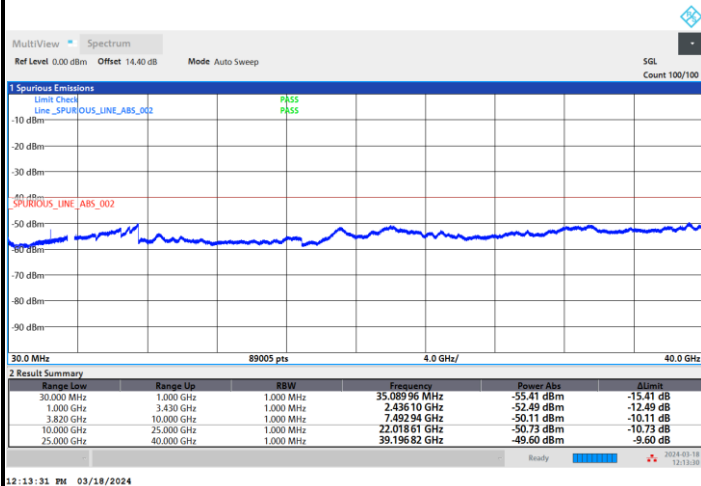
Lowest Channel



Middle Channel



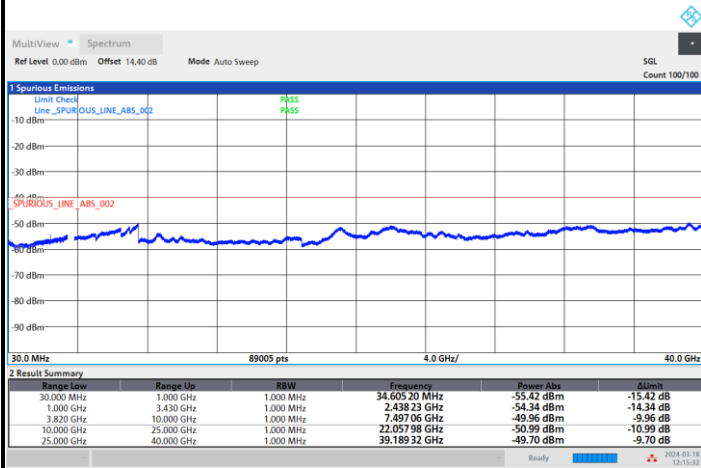
Highest Channel





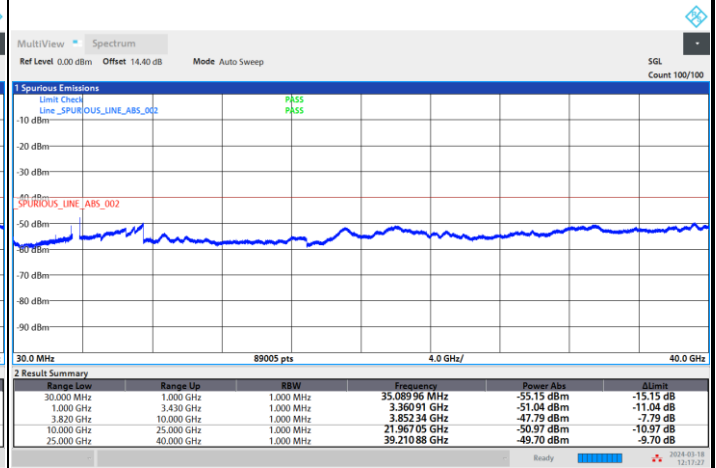
FR1 n48 / 40MHz / CP OFDM / QPSK / 1RB1

Lowest Channel



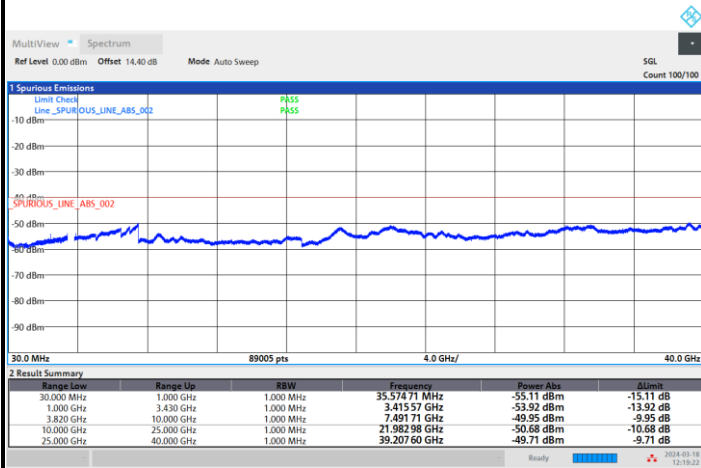
12:15:32 PM 03/18/2024

Middle Channel



12:17:28 PM 03/18/2024

Highest Channel



12:19:23 PM 03/18/2024

Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0187	
30	Normal Voltage	0.0066	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0181	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0116	
-20	Normal Voltage	0.0045	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0168	
20	Normal Voltage	0.0023	
20	Battery End Point	0.0189	

Note:

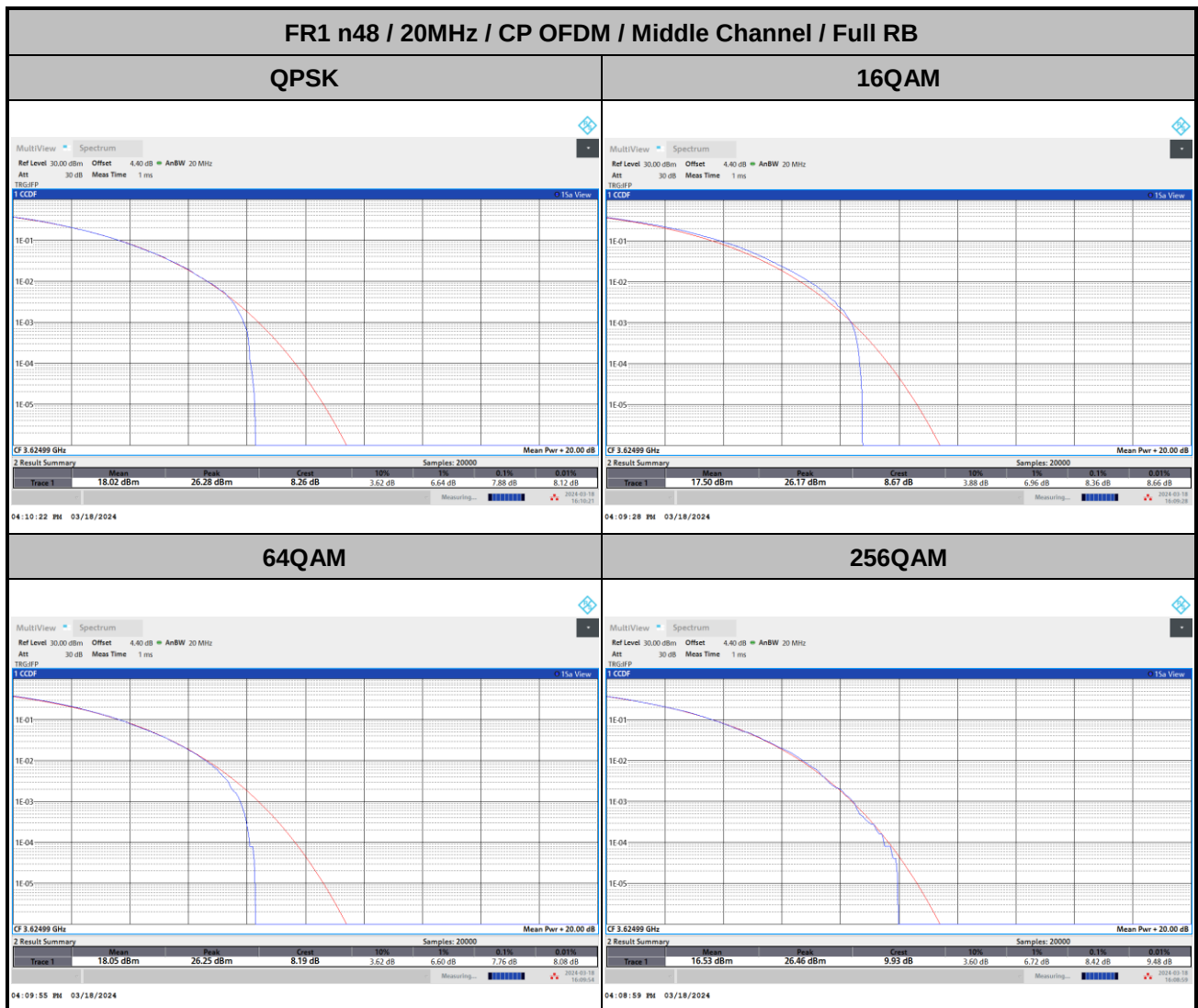
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <Ant. 1>

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	7.88	8.36	7.76	8.42	PASS



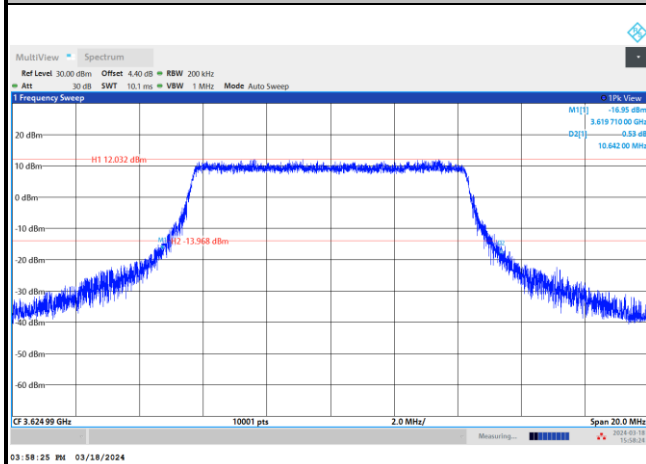
**26dB Bandwidth**

Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.64	10.35	15.67	15.51	20.64	20.48	Data_26dB_25M_30k _CP_M_Full_QPSK	Data_26dB_25M_30k _CP_M_Full_16Q
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.42	10.36	15.57	15.43	20.26	20.68	Data_26dB_25M_30k _CP_M_Full_64Q	Data_26dB_25M_30k _CP_M_Full_256Q
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	31.21	31.05	43.54	42.90	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	31.13	30.79	42.50	42.39	-	-	-	-
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	-	-	-	-	-	-	-	-

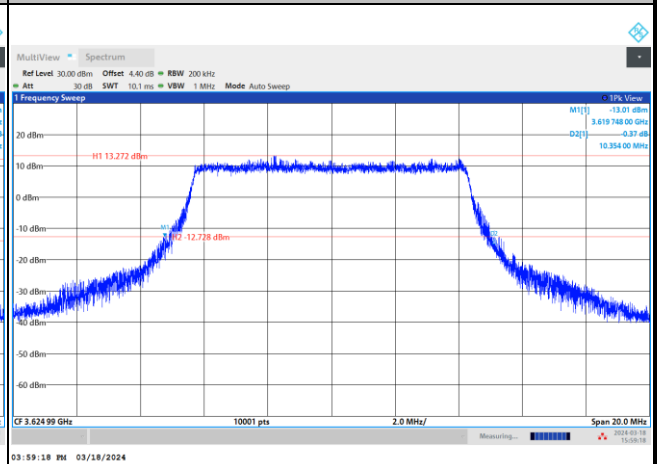


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

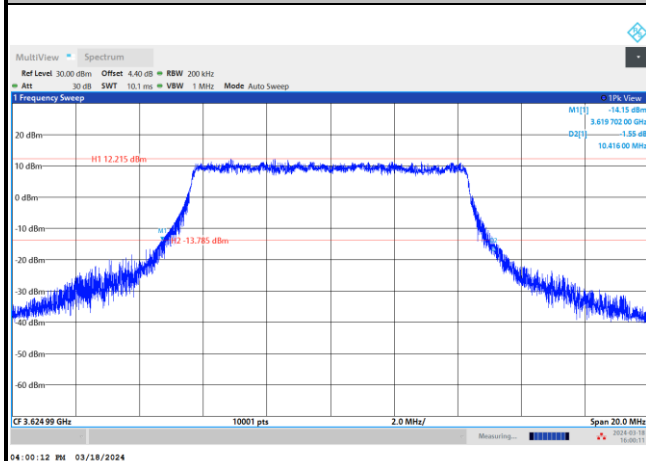
QPSK



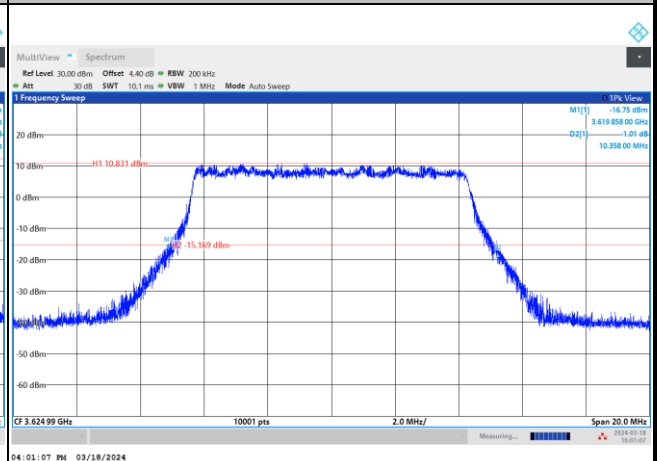
16QAM



64QAM



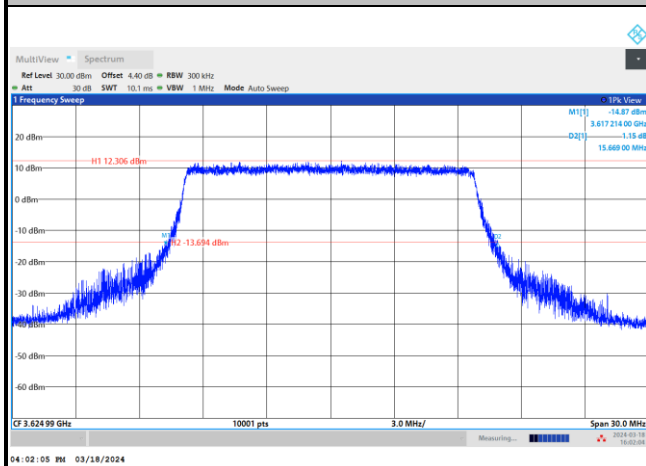
256QAM



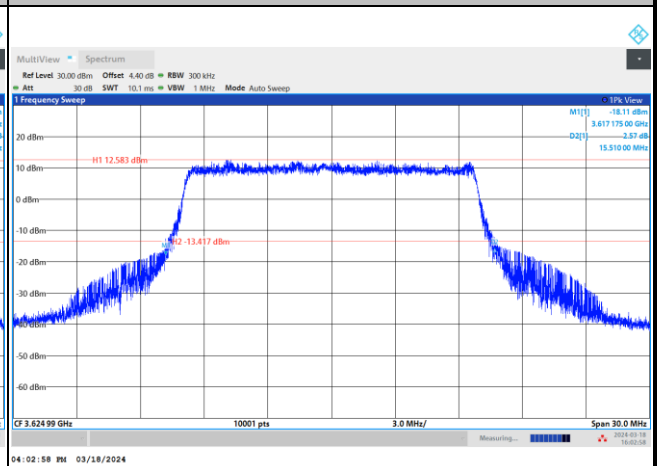


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

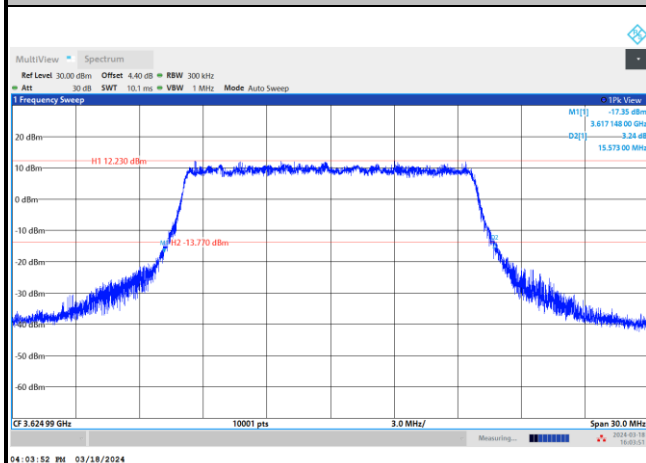
QPSK



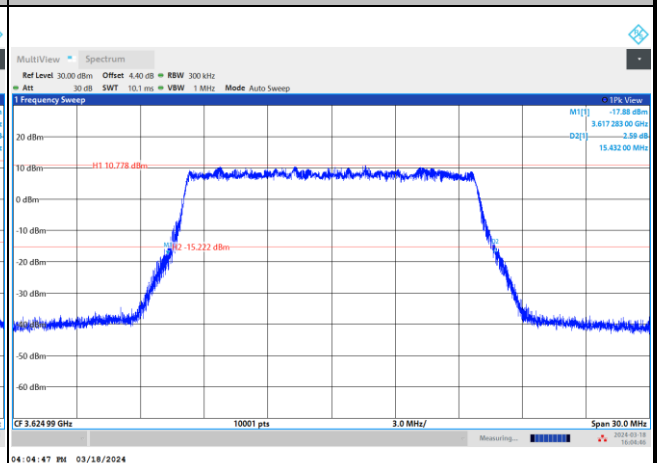
16QAM



64QAM



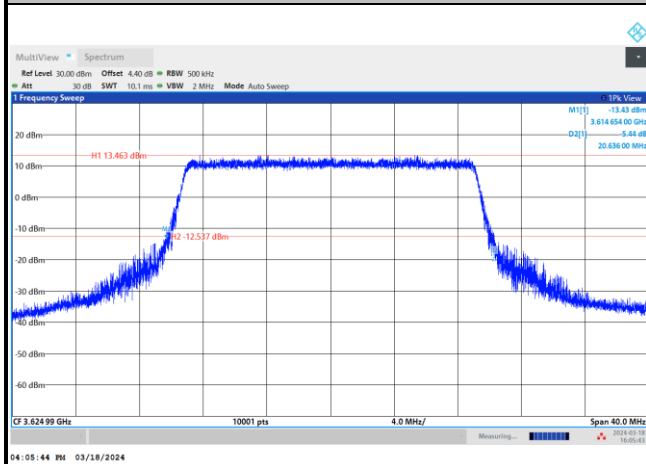
256QAM



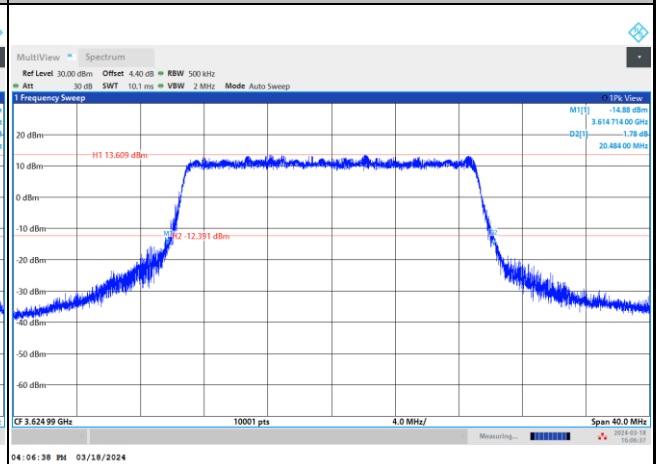


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

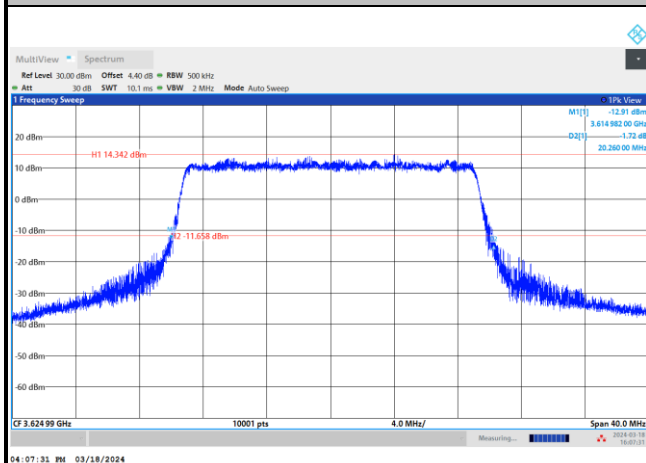
QPSK



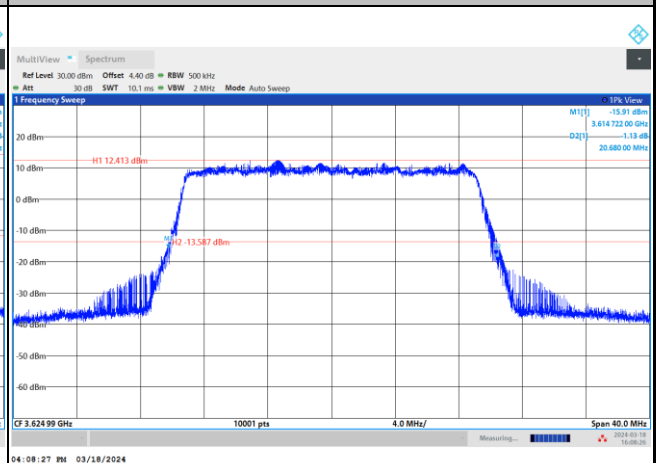
16QAM

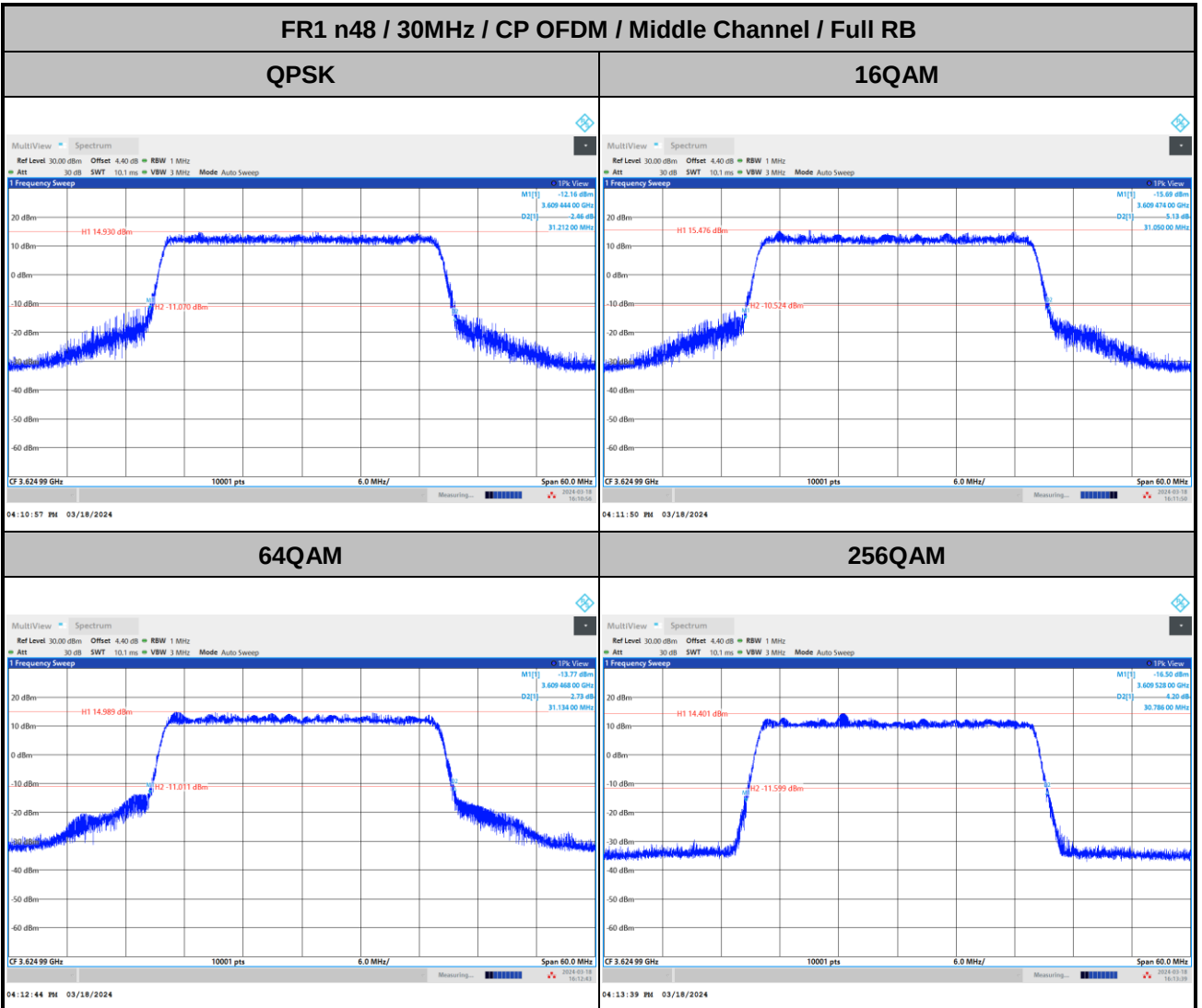


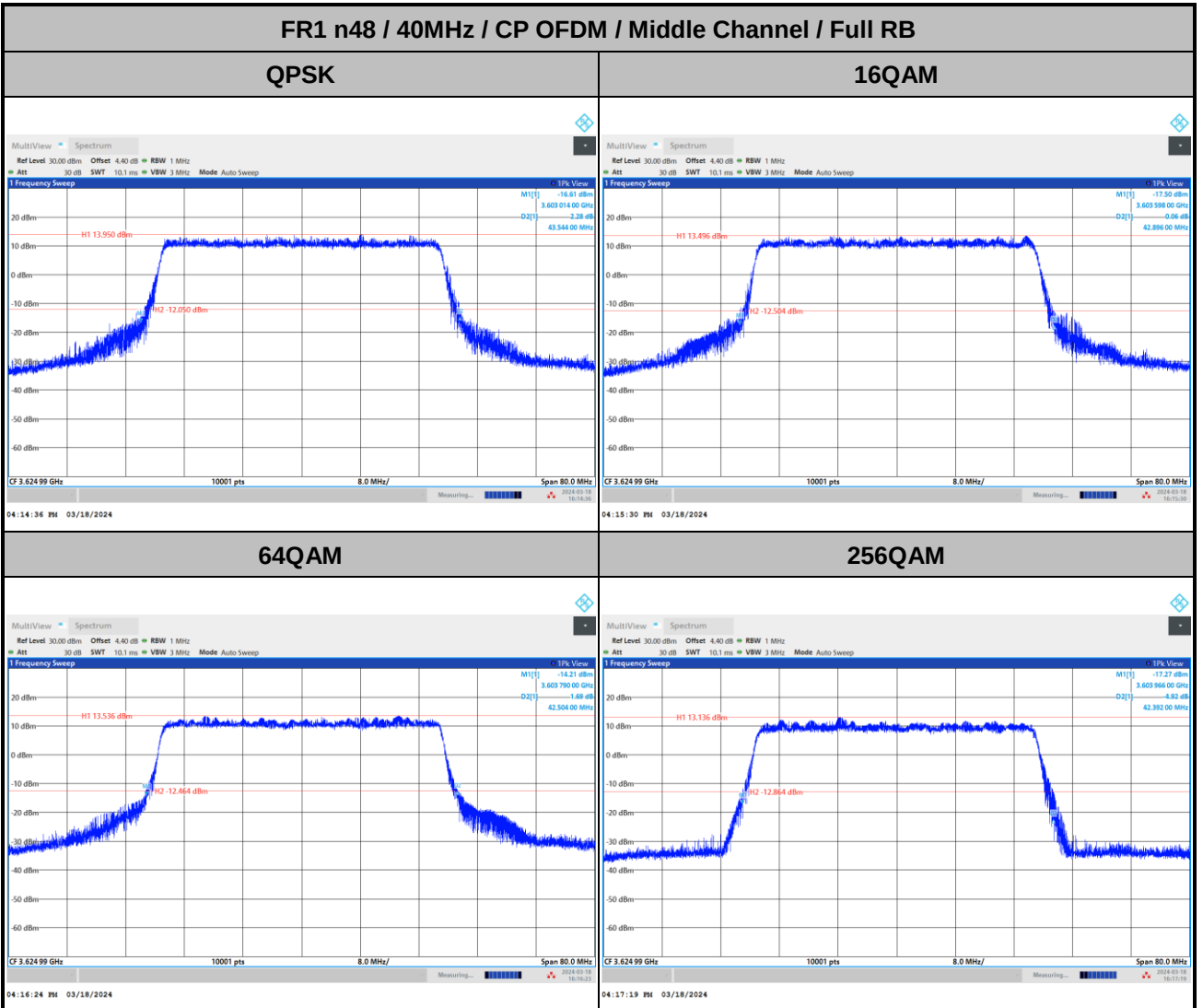
64QAM



256QAM







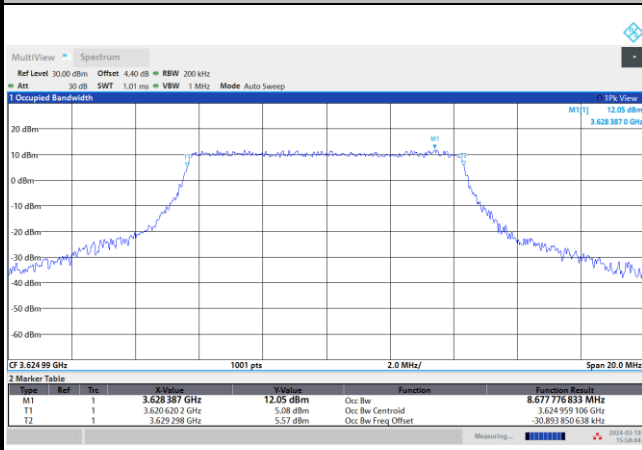
**Occupied Bandwidth**

Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.67	8.68	13.65	13.63	18.37	18.34	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.70	8.67	13.69	13.67	18.34	18.46	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	28.22	28.12	38.23	38.12	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.26	28.18	38.12	38.01	-	-	-	-
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	-	-	-	-	-	-	-	-

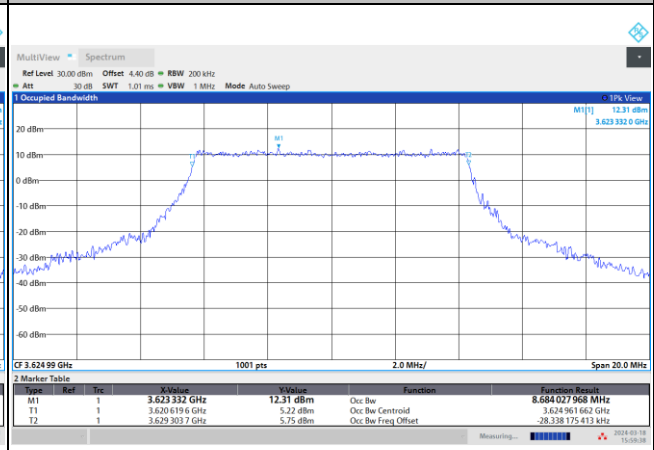


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

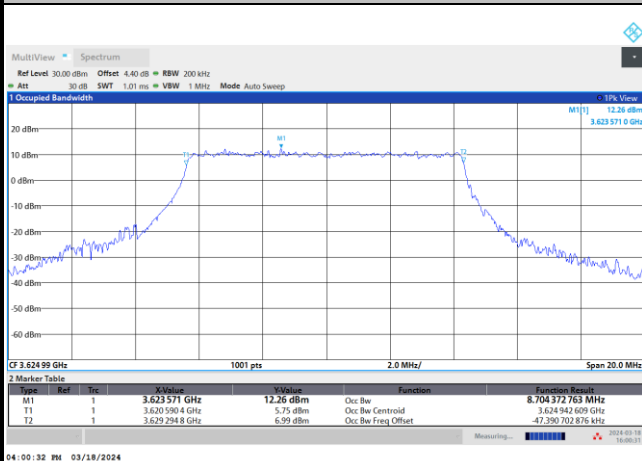
QPSK



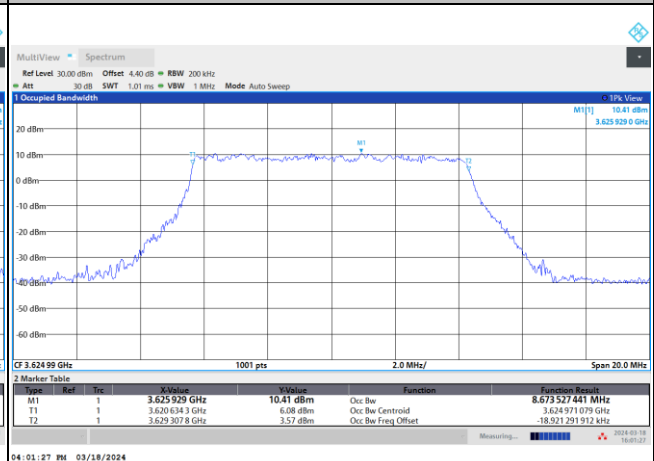
16QAM



64QAM



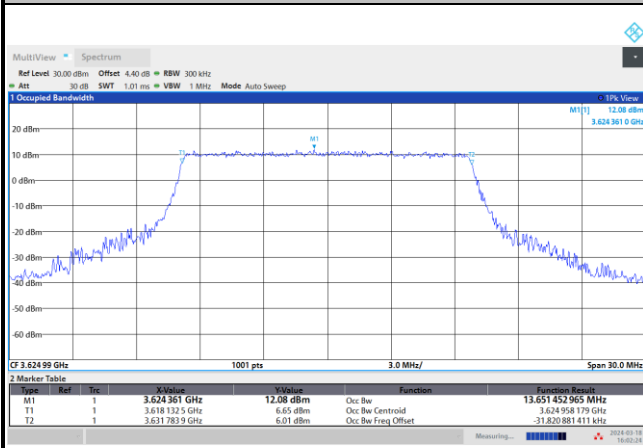
256QAM





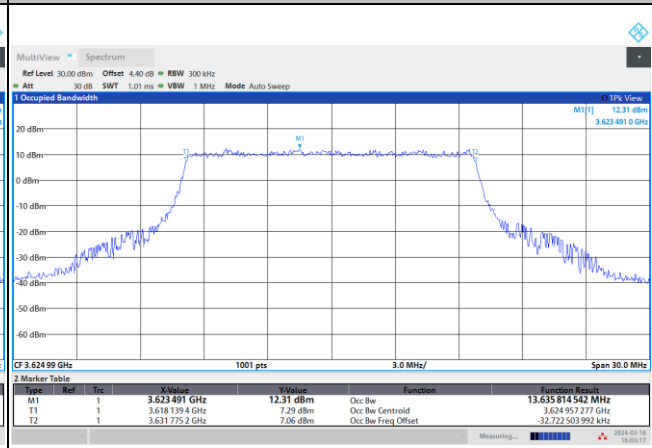
FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



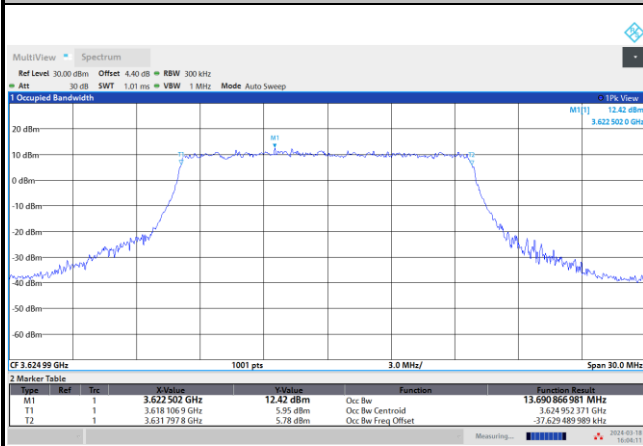
04:02:24 PM 03/18/2024

16QAM



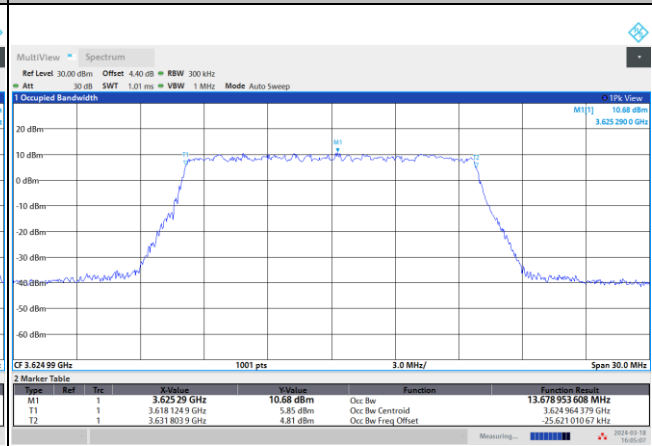
04:03:18 PM 03/18/2024

64QAM



04:04:12 PM 03/18/2024

256QAM

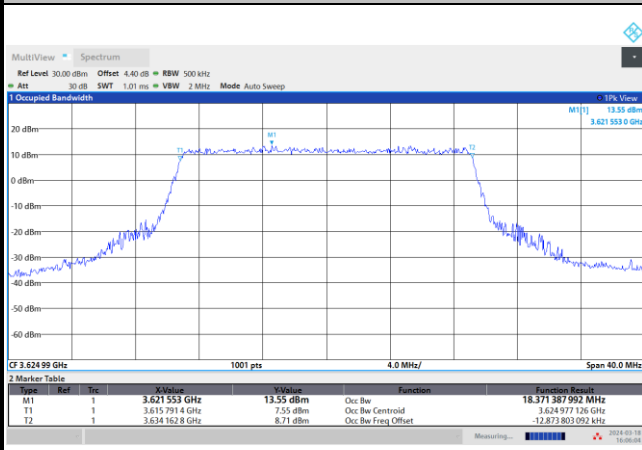


04:05:07 PM 03/18/2024

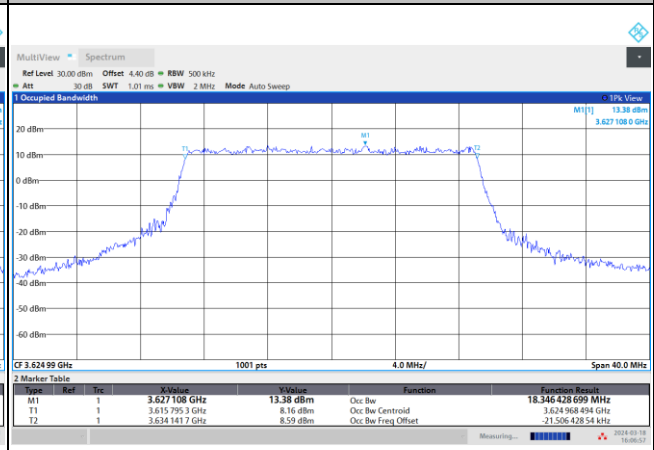


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

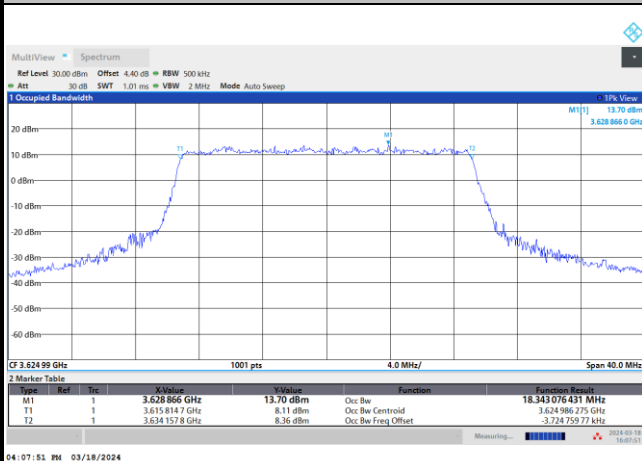
QPSK



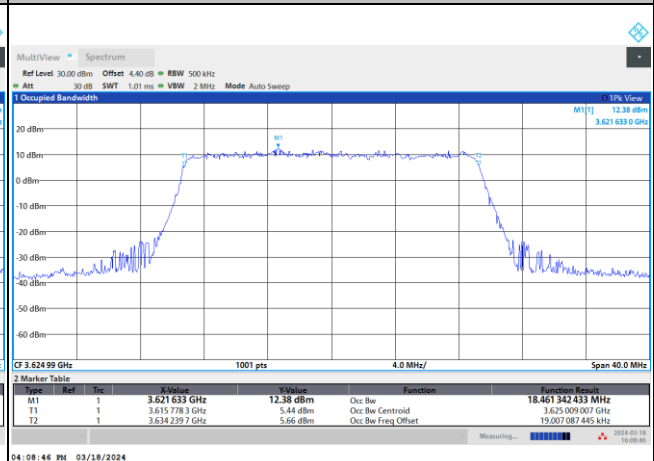
16QAM



64QAM



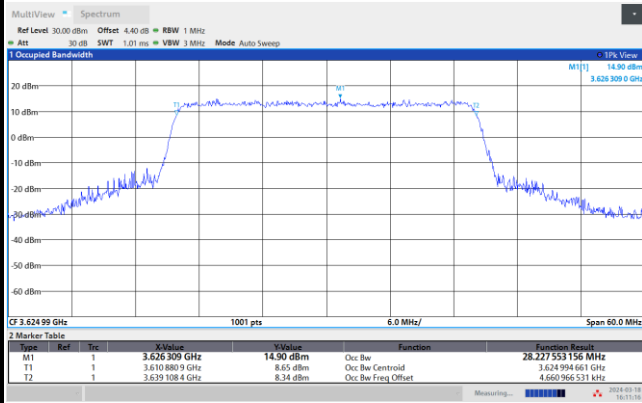
256QAM





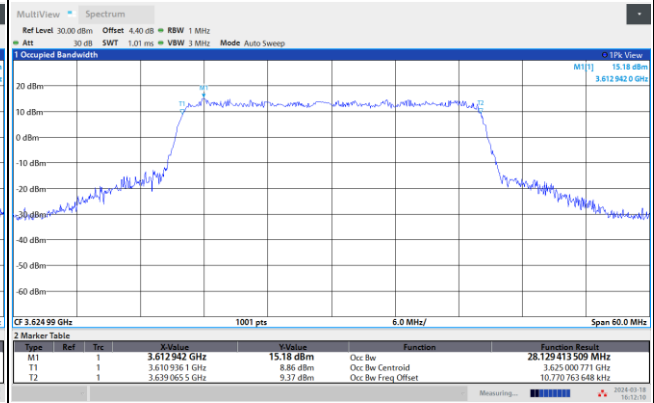
FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



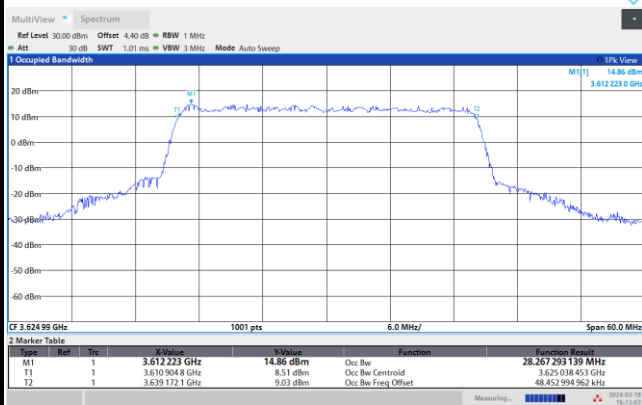
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16QAM



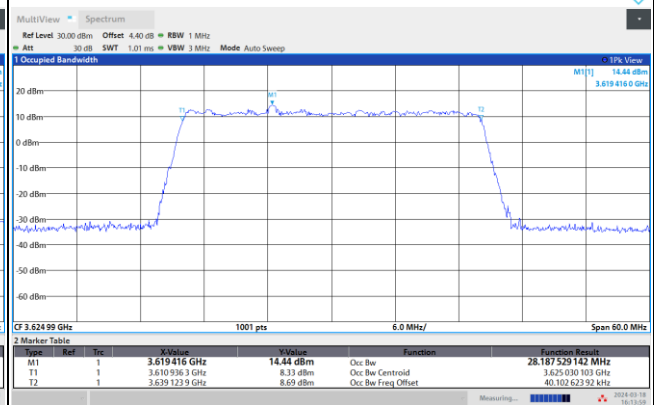
04:12:10 PM 03/18/2024

64QAM



04:13:04 PM 03/18/2024

256QAM

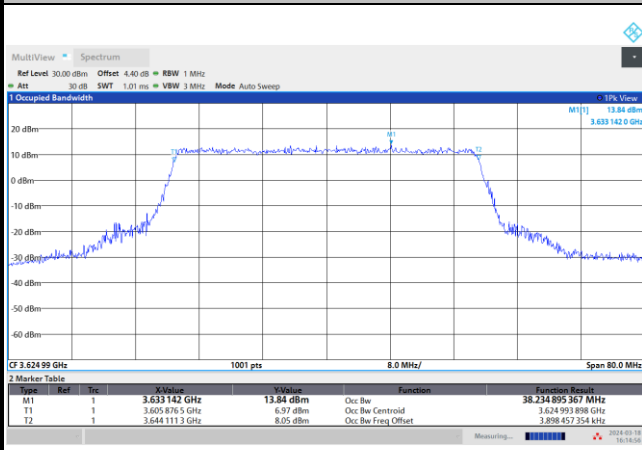


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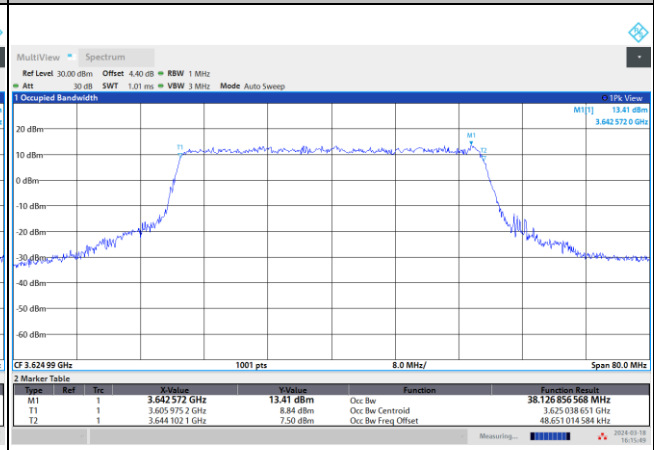


FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

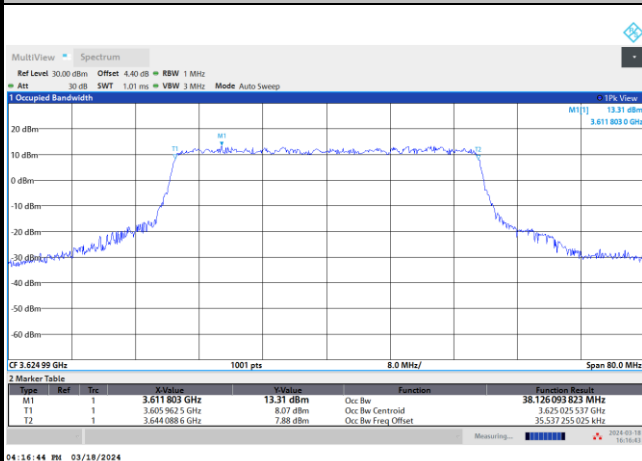
QPSK



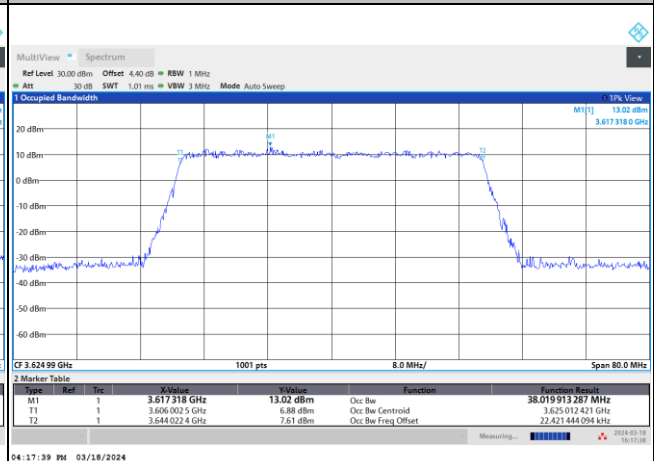
16QAM



64QAM



256QAM



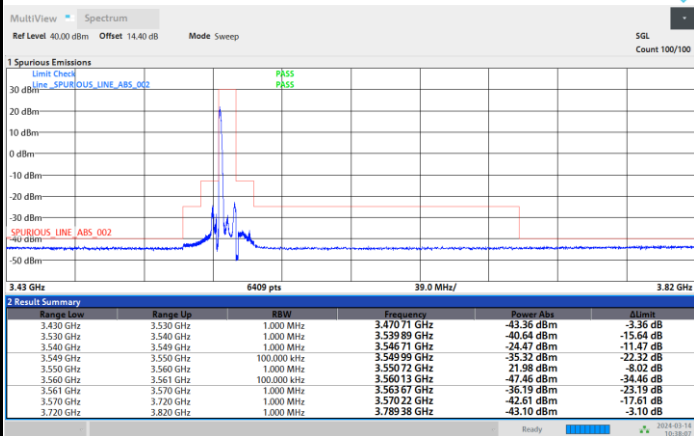
**Unwanted Emission (MASK)**

FR1 n48 / 10MHz / CP OFDM / QPSK

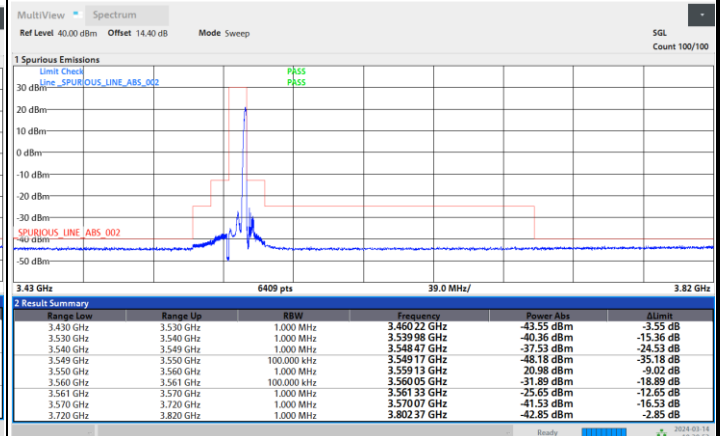
Lowest Channel

1RB0

1RBmax

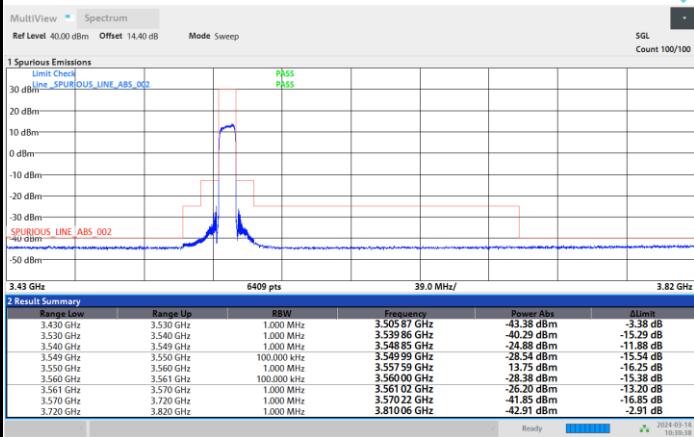


10:38:08 AM 03/14/2024



10:38:54 AM 03/14/2024

Full RB



10:39:39 AM 03/14/2024

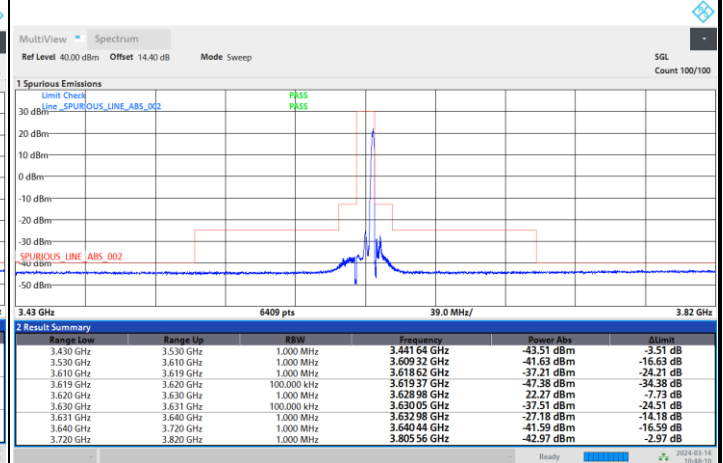
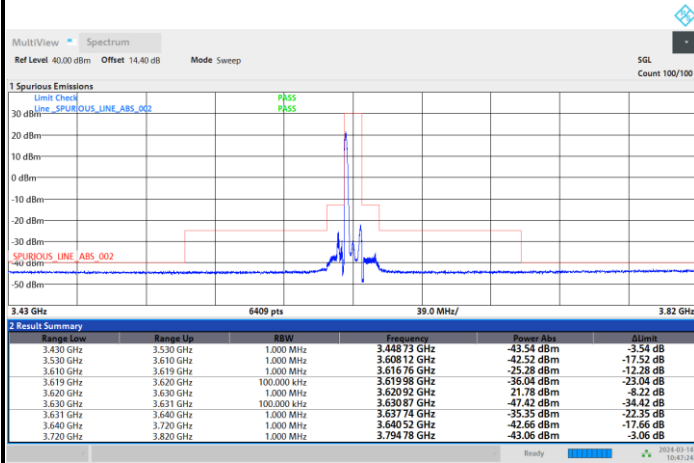


FR1 n48 / 10MHz / CP OFDM / QPSK

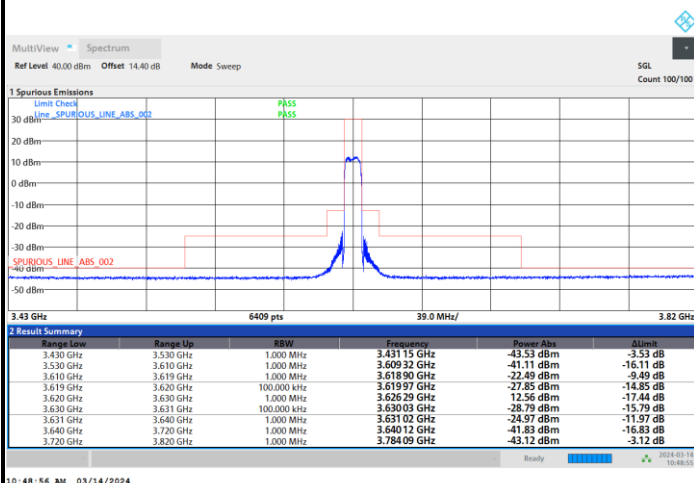
Middle Channel

1RB0

1RBmax



Full RB

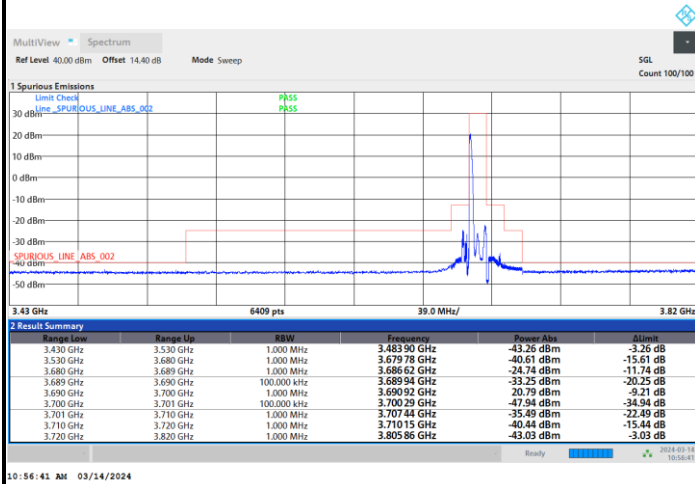




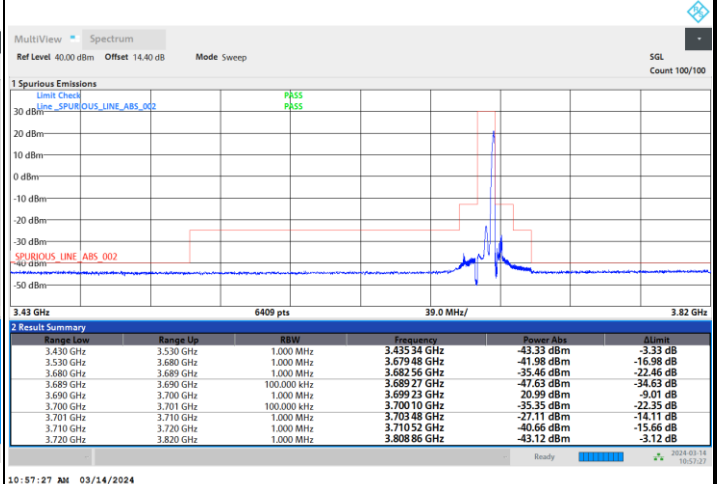
FR1 n48 / 10MHz / CP OFDM / QPSK

Highest Channel

1RB0



1RBmax



Full RB

