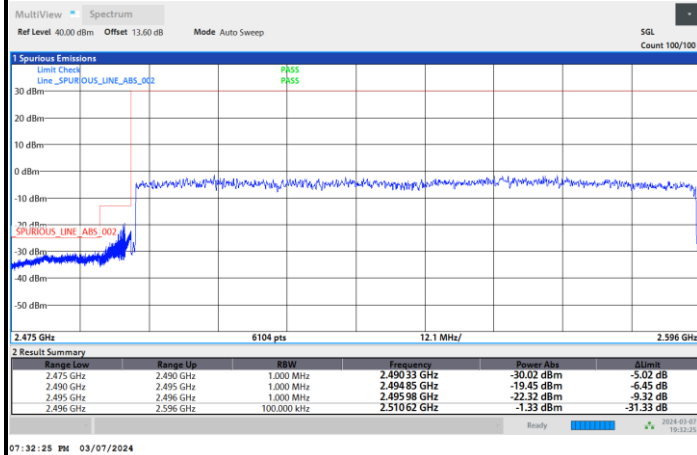


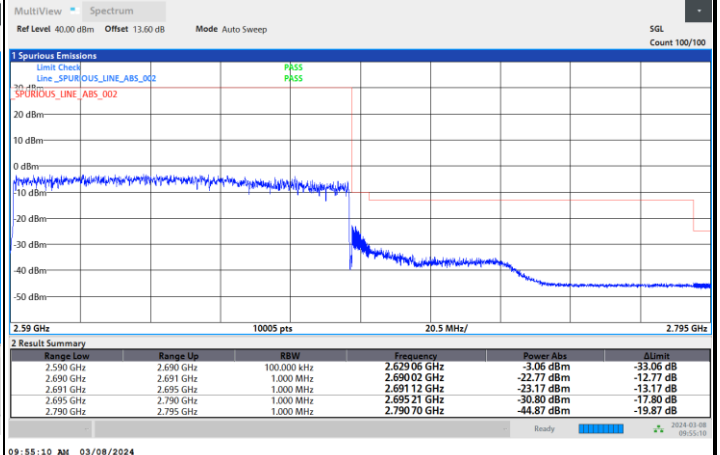


FR1 n41 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

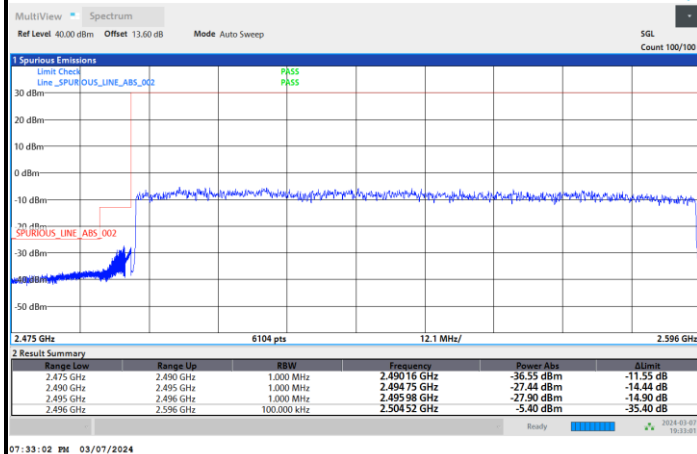


Highest Band Edge / Full RB

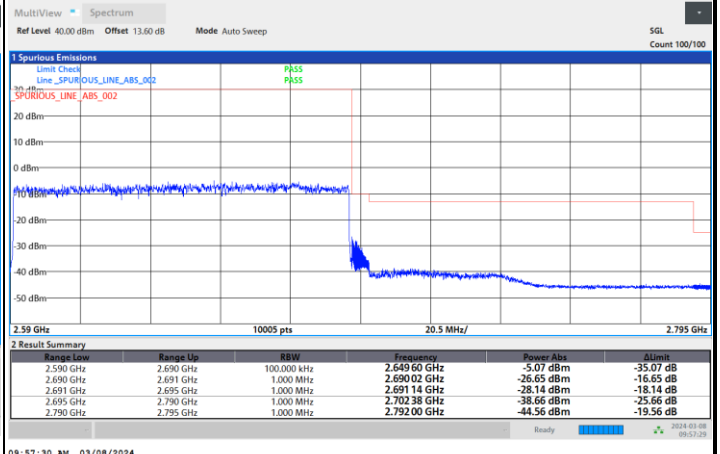


FR1 n41 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

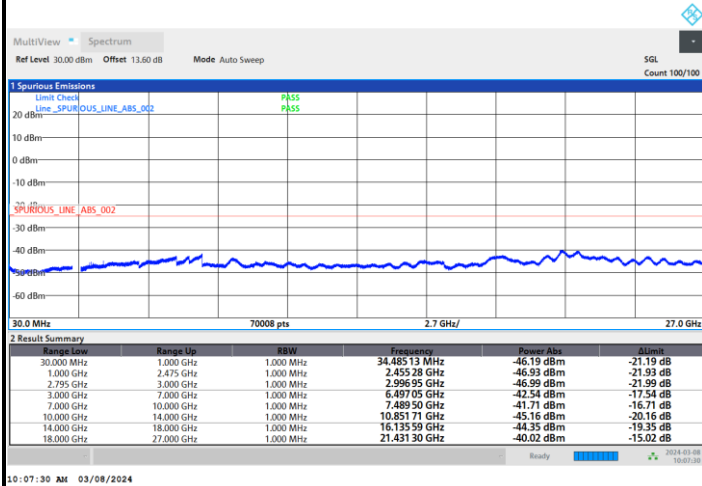




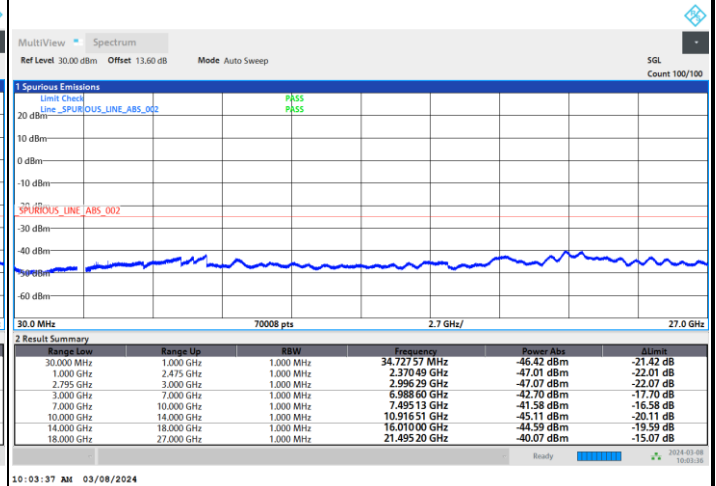
Conducted Spurious Emission

FR1 n41 / 10MHz / CP OFDM / QPSK / 1RB1

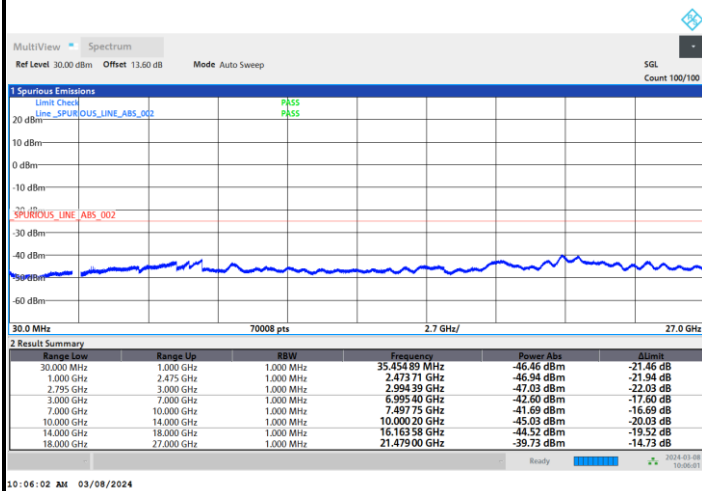
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0054	PASS
40	Normal Voltage	0.0133	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0155	
0	Normal Voltage	0.0201	
-10	Normal Voltage	0.0065	
-20	Normal Voltage	0.0122	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0204	

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.

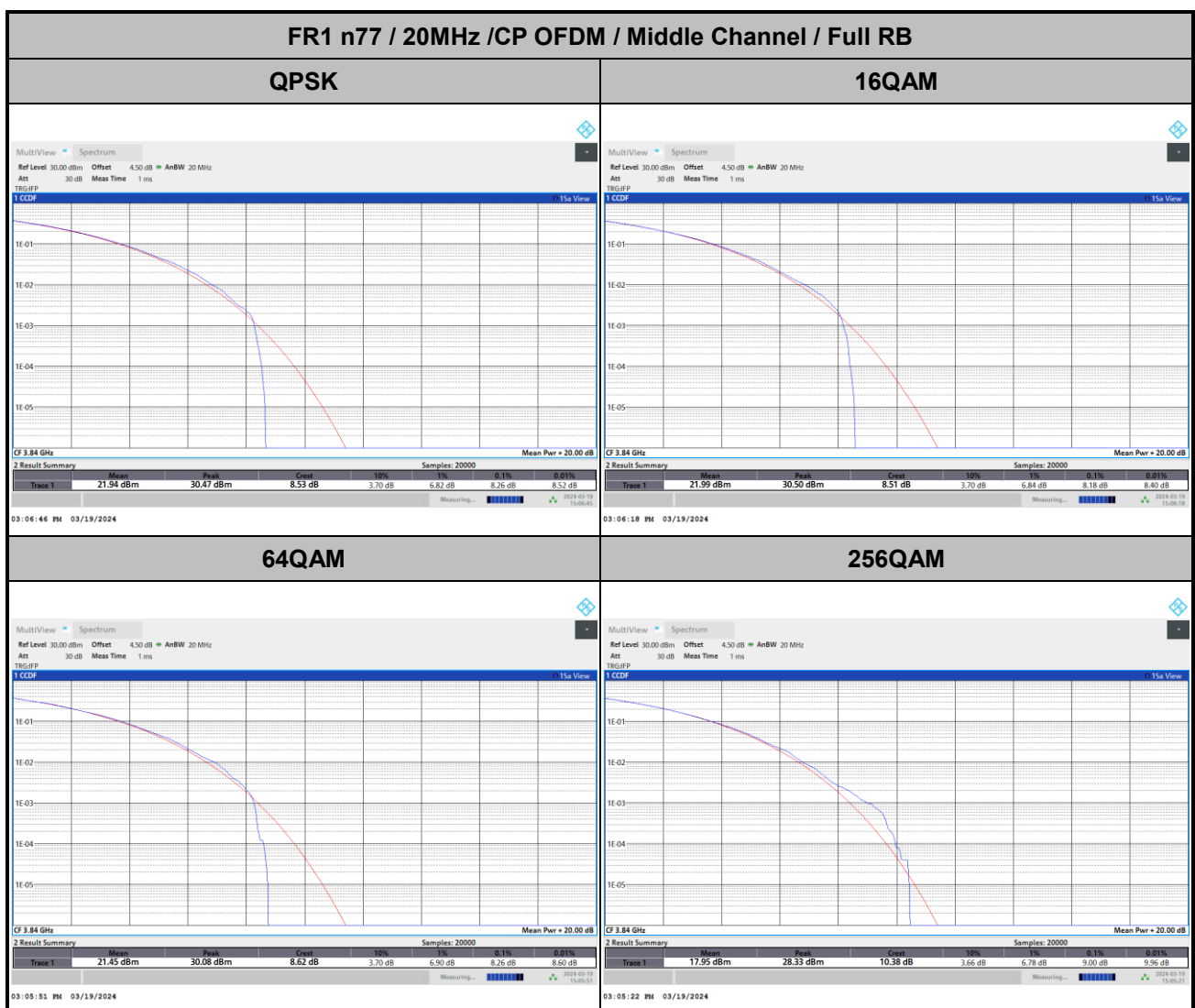


FR1 n77_Part270

MIMO <Ant. 6>

Peak-to-Average Ratio

Mode	FR1 n77 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	8.26	8.18	8.26	9.00	PASS



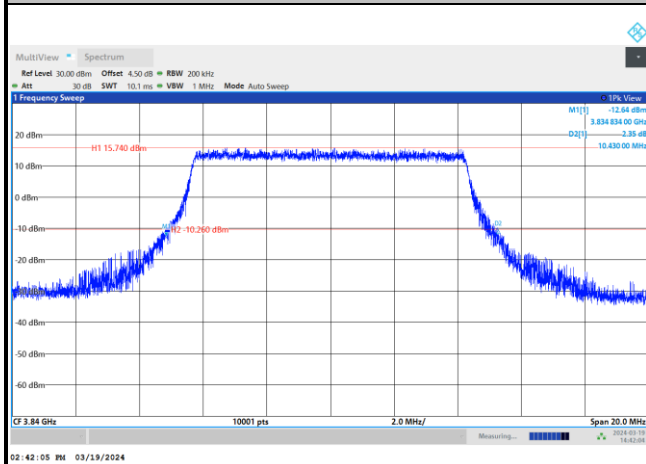
**26dB Bandwidth**

Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.43	10.62	15.76	15.81	20.56	20.78	25.73	25.81
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.32	10.28	15.72	15.53	20.36	20.66	25.32	25.91
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	31.22	31.12	42.82	42.69	52.36	52.18	67.21	66.55
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	31.09	31.17	42.26	42.82	51.87	51.88	66.30	67.61
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	76.96	76.43	84.24	84.80	96.35	96.70	106.06	106.18
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	77.39	76.62	84.27	84.59	96.89	97.67	105.86	106.42

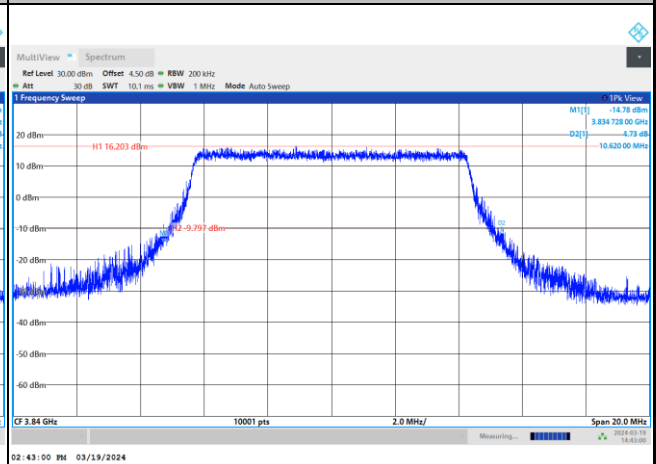


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

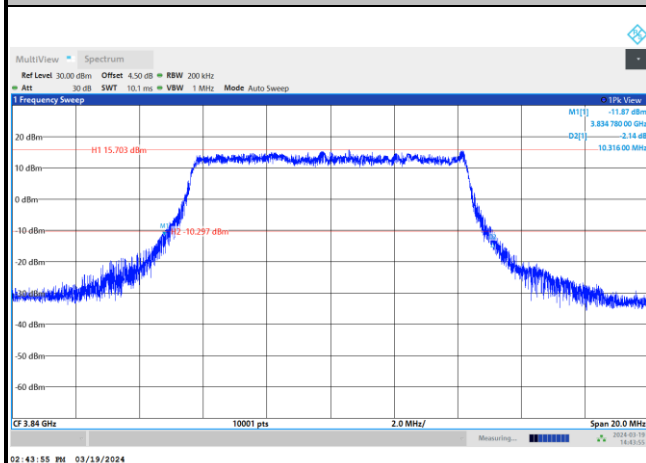
QPSK



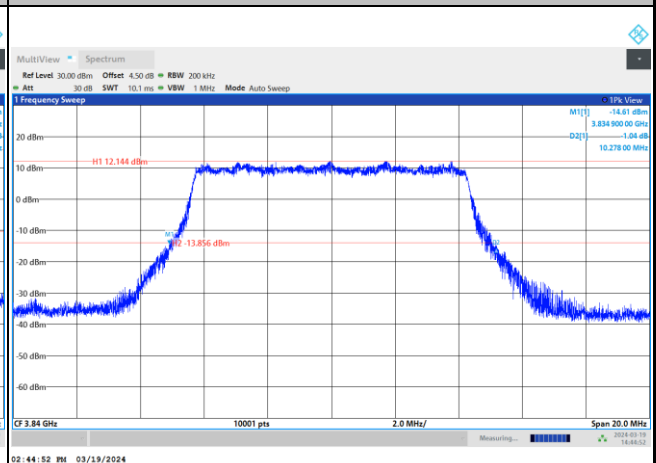
16QAM



64QAM



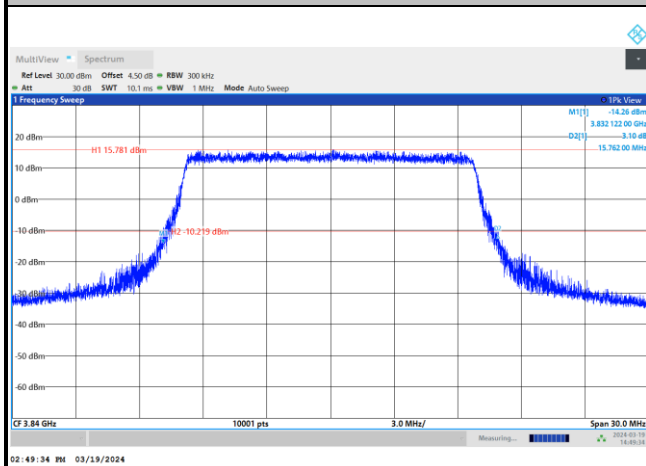
256QAM



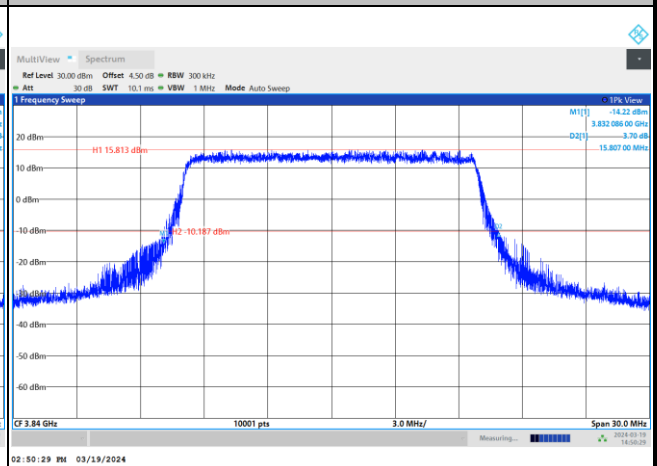


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

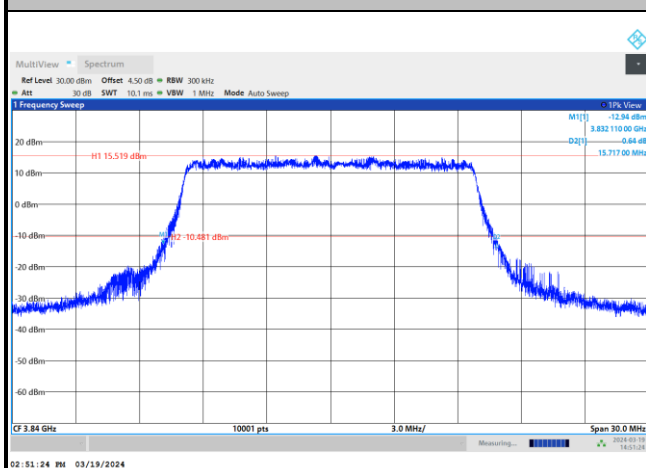
QPSK



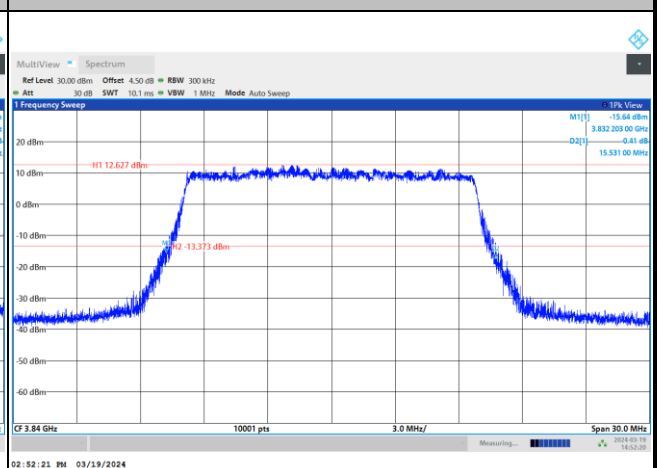
16QAM



64QAM



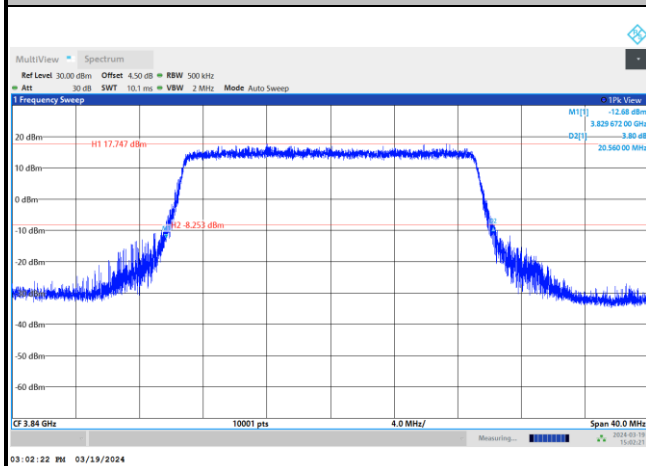
256QAM



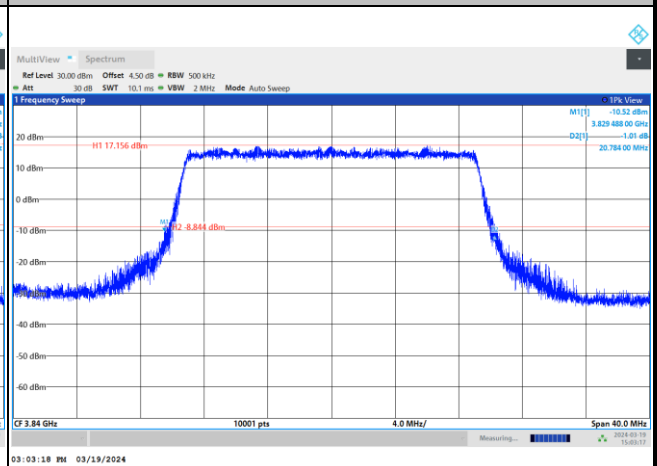


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

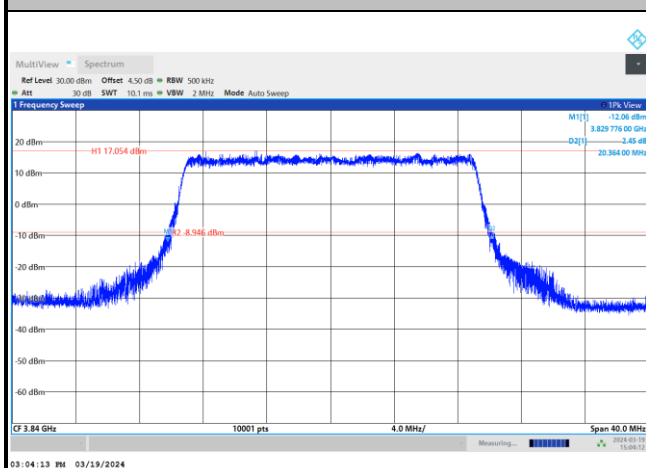
QPSK



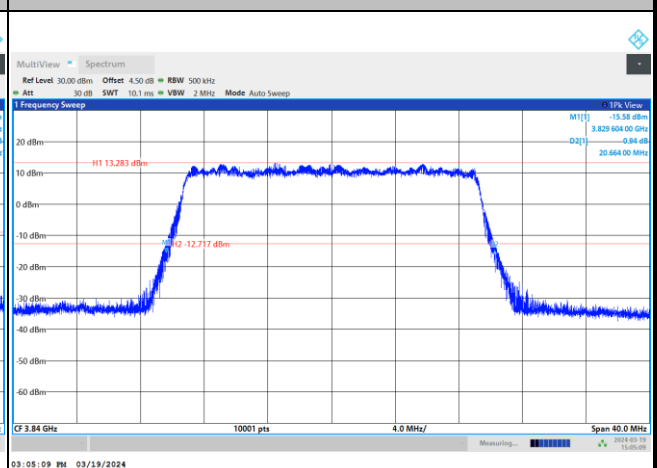
16QAM



64QAM



256QAM









FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK

MultiView Spectrum

Ref Level 30.00 dBm Offset 4.50 dB RBW 1 MHz

Att 30 dB SWT 10.1 ms VBW 3 MHz Mode Auto Sweep

1 Frequency Sweep

1% View

M1[1] -13.62 dBm
3.818 432.00 GHz
-8.30 dB
42.816 00 MHz

H1 17.162 dBm
H2 -8.838 dBm

CF 3.84 GHz 10001 pts 8.0 MHz/ Span 80.0 MHz

03:22:35 PM 03/19/2024

16QAM

MultiView Spectrum

Ref Level 30.00 dBm Offset 4.50 dB RBW 1 MHz

Att 30 dB SWT 10.1 ms VBW 3 MHz Mode Auto Sweep

1 Frequency Sweep

1% View

M1[1] -11.93 dBm
3.818 792.00 GHz
-1.01 dB
42.696 00 MHz

H1 17.842 dBm
H2 -8.158 dBm

CF 3.84 GHz 10001 pts 8.0 MHz/ Span 80.0 MHz

03:23:29 PM 03/19/2024

64QAM

MultiView Spectrum

Ref Level 30.00 dBm Offset 4.50 dB RBW 1 MHz

Att 30 dB SWT 10.1 ms VBW 3 MHz Mode Auto Sweep

1 Frequency Sweep

1% View

M1[1] -14.00 dBm
3.819 264.00 GHz
-1.84 dB
42.264 00 MHz

H1 17.218 dBm
H2 -8.782 dBm

CF 3.84 GHz 10001 pts 8.0 MHz/ Span 80.0 MHz

03:24:22 PM 03/19/2024

256QAM

MultiView Spectrum

Ref Level 30.00 dBm Offset 4.50 dB RBW 1 MHz

Att 30 dB SWT 10.1 ms VBW 3 MHz Mode Auto Sweep

1 Frequency Sweep

1% View

M1[1] -13.95 dBm
3.818 768.00 GHz
-3.38 dB
42.824 00 MHz

H1 13.311 dBm
H2 -12.689 dBm

CF 3.84 GHz 10001 pts 8.0 MHz/ Span 80.0 MHz

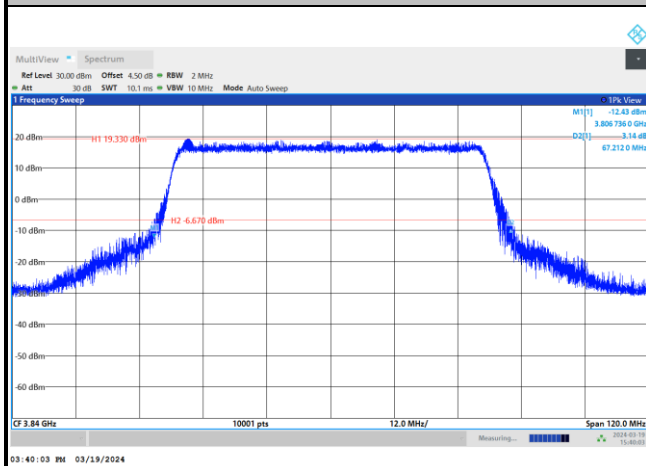
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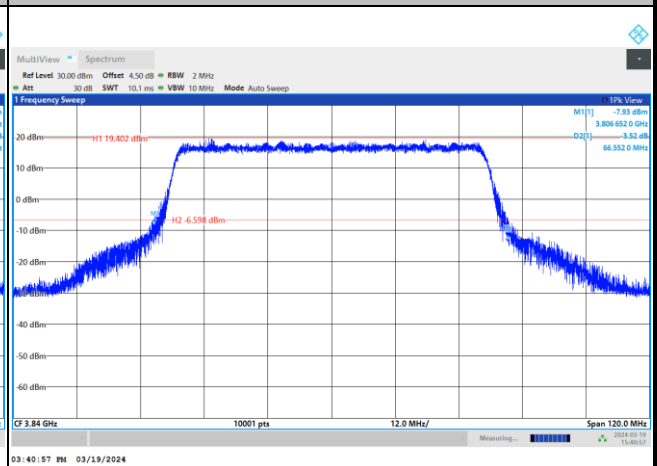


FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

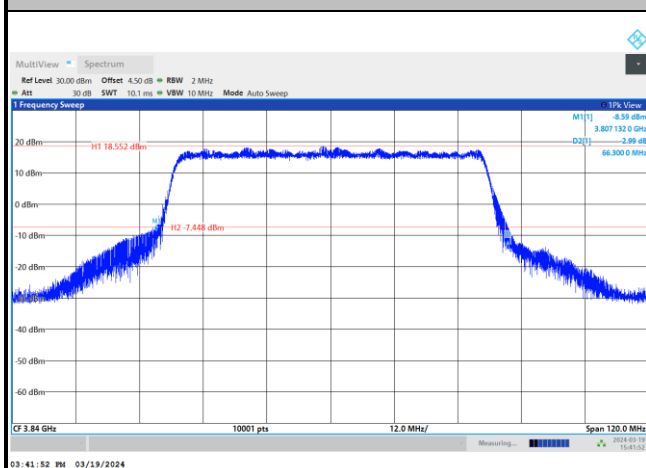
QPSK



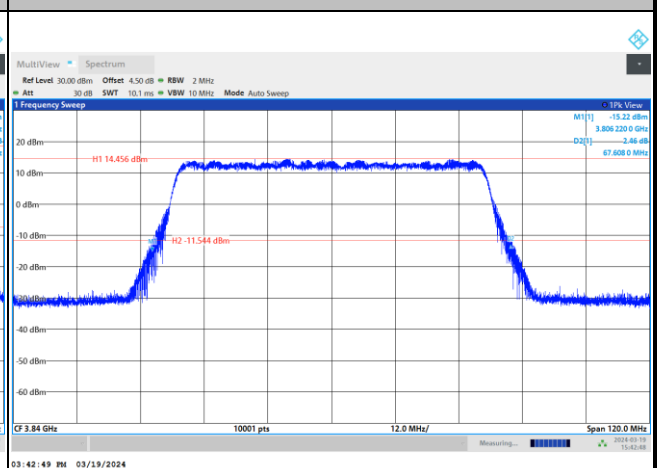
16QAM



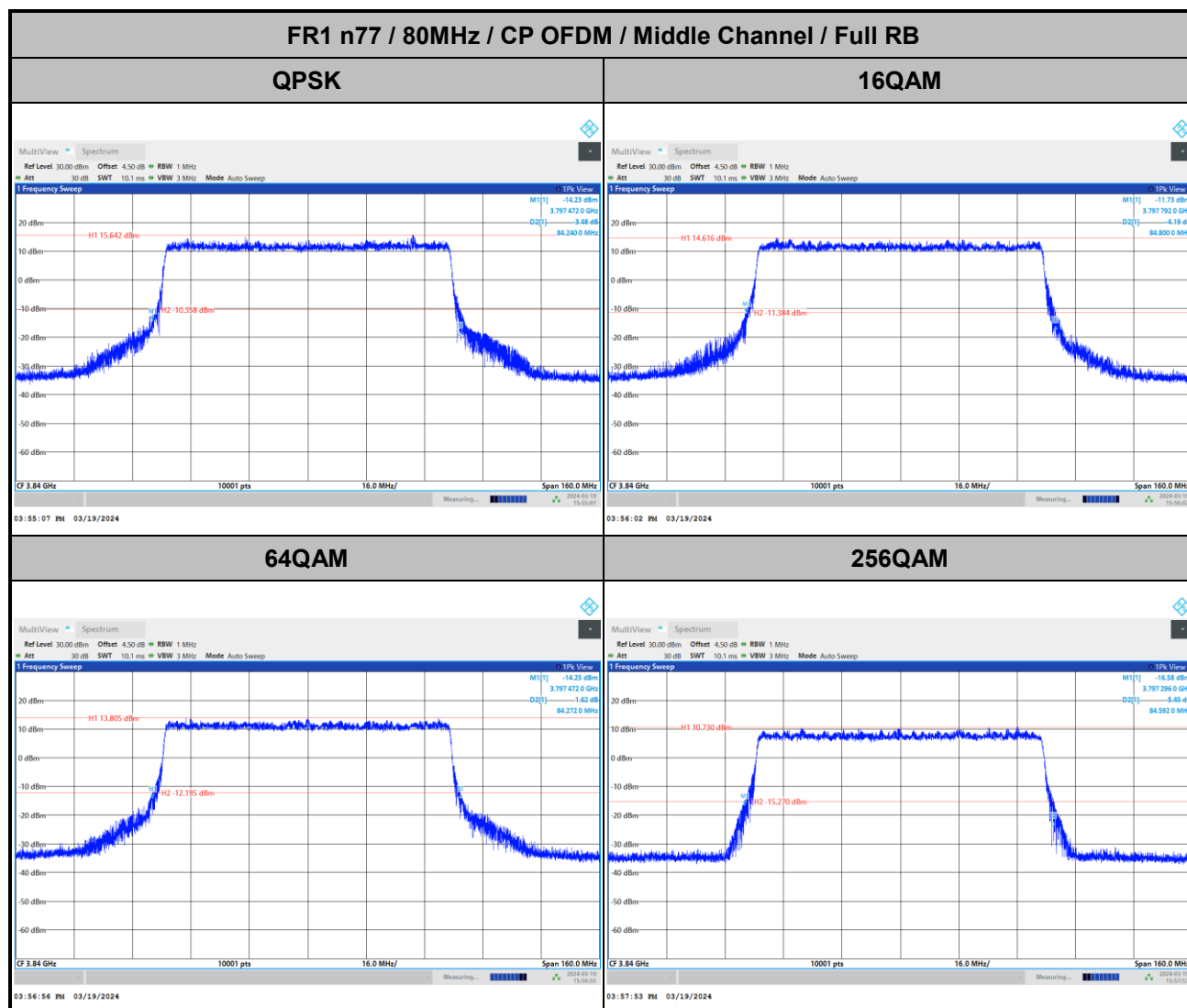
64QAM



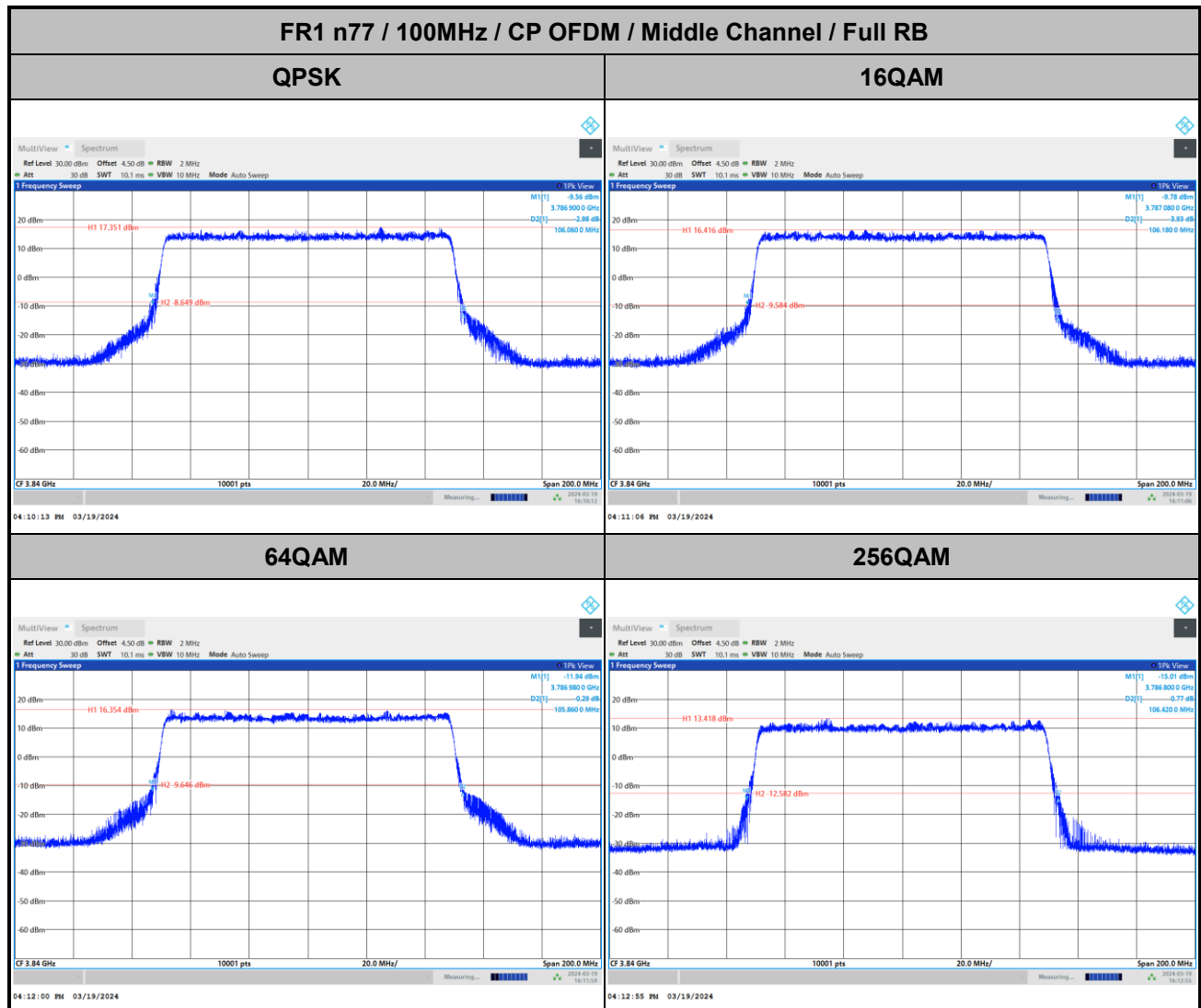
256QAM











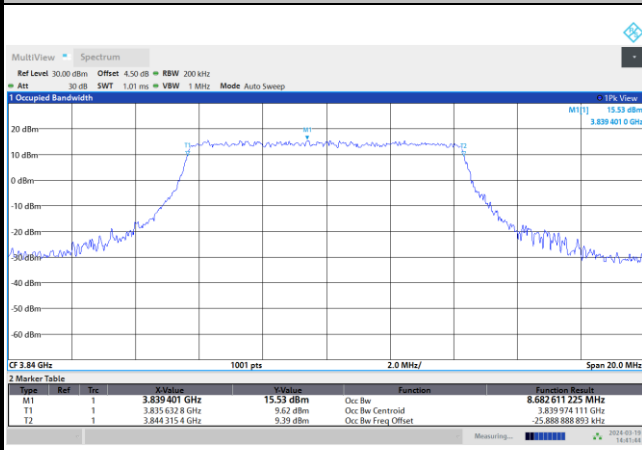
**Occupied Bandwidth**

Mode	FR1 n77 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.68	8.70	13.67	13.71	18.40	18.38	23.32	23.37
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.67	8.63	13.65	13.61	18.35	18.40	23.30	23.47
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	28.17	28.14	38.15	38.16	47.64	47.61	58.65	58.62
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.18	28.20	38.22	38.26	47.67	47.67	58.70	58.49
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	68.21	68.15	78.05	78.01	87.78	87.77	97.93	97.81
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	68.39	68.16	78.11	77.86	88.22	87.94	97.84	97.82



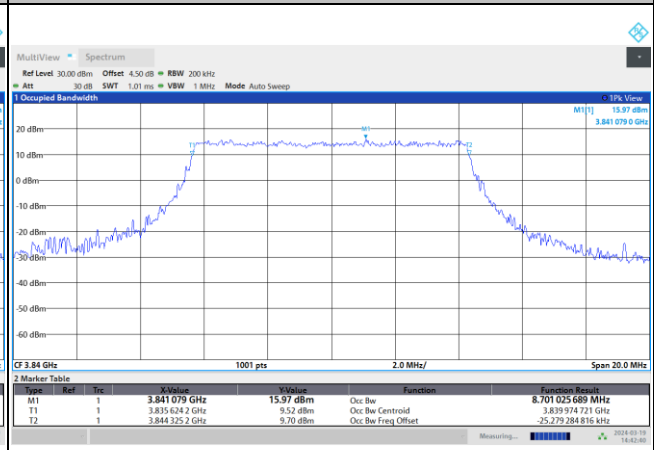
FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



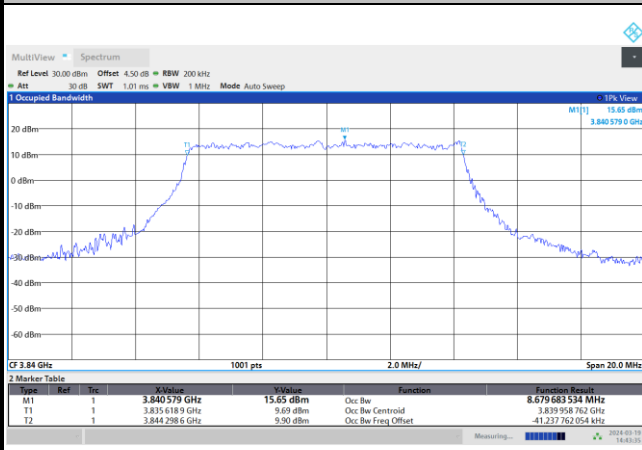
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16QAM



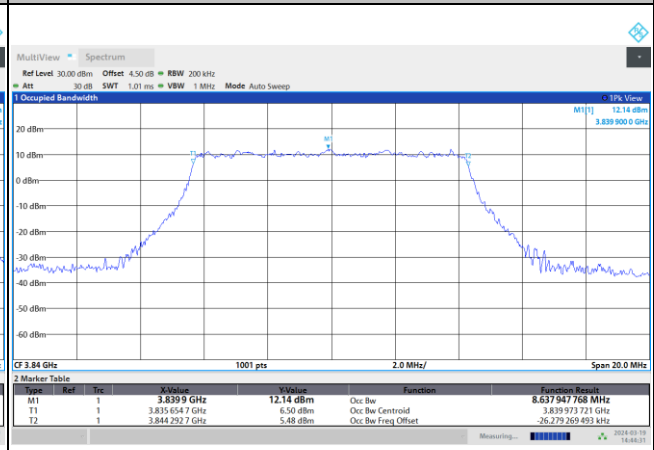
02:42:40 PM 03/19/2024

64QAM



02:43:35 PM 03/19/2024

256QAM

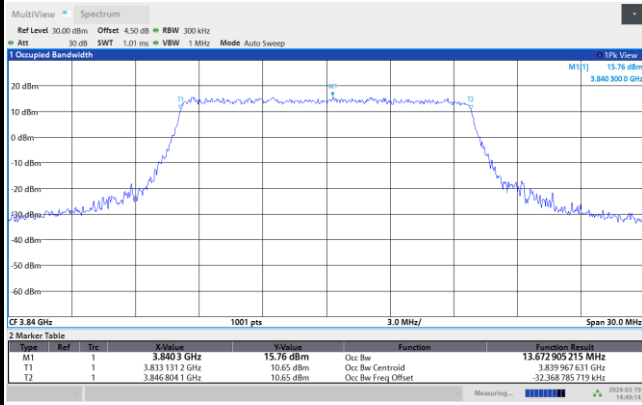


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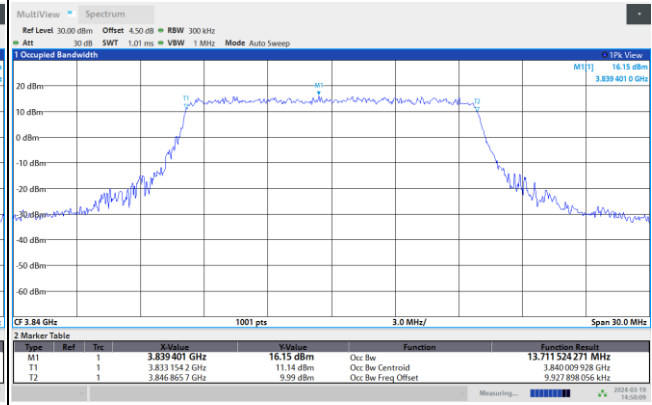


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

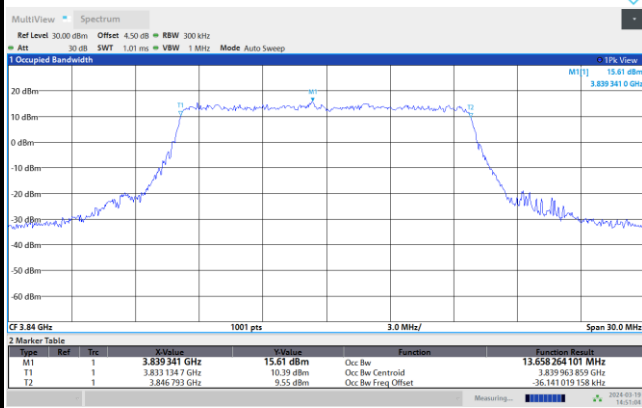
QPSK



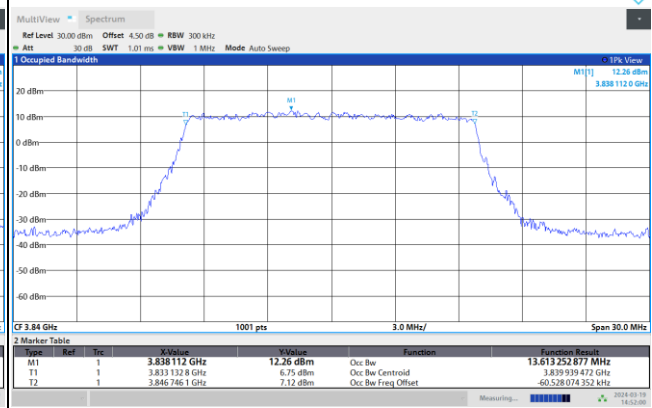
16QAM



64QAM



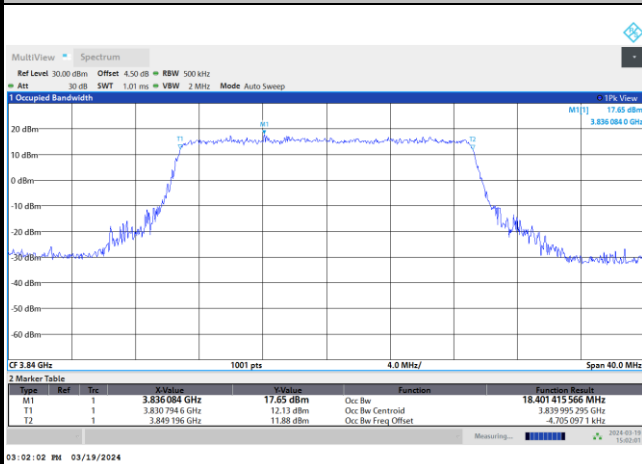
256QAM





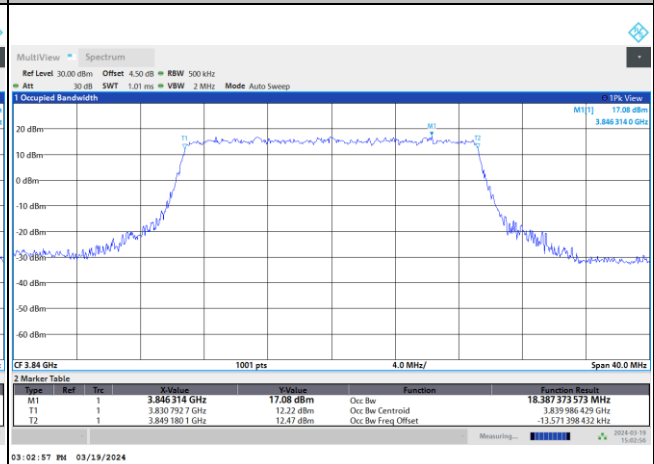
FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



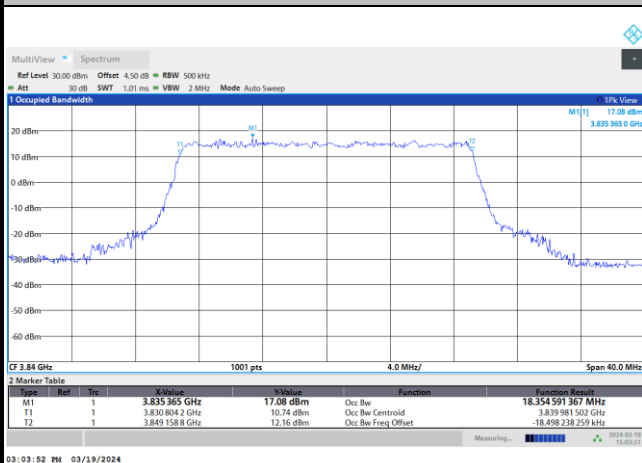
03:02:02 PM 03/19/2024

16QAM



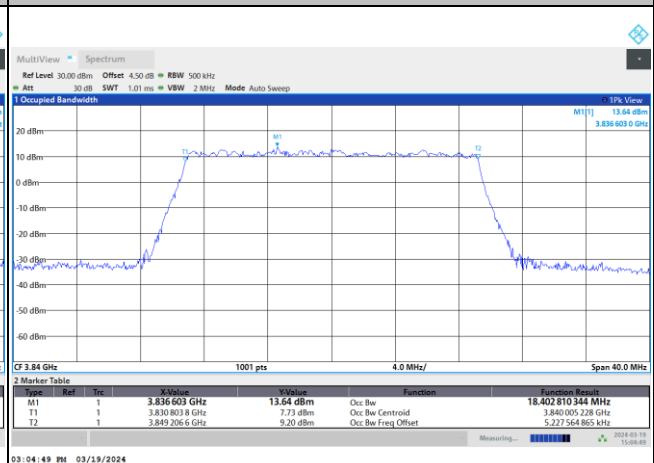
03:02:57 PM 03/19/2024

64QAM



03:03:52 PM 03/19/2024

256QAM

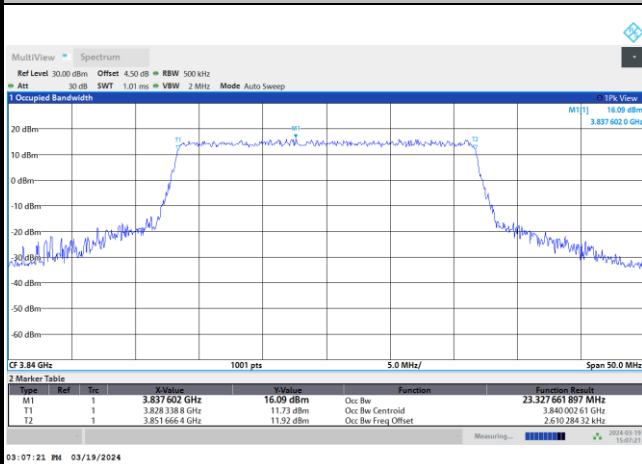


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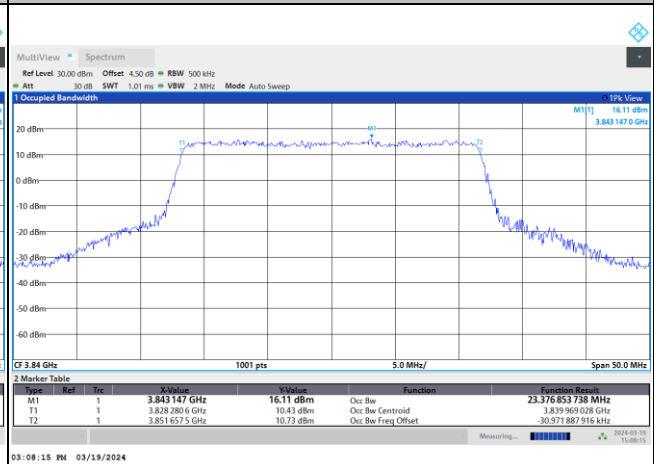


FR1 n77 / 25MHz / CP OFDM / Middle Channel / Full RB

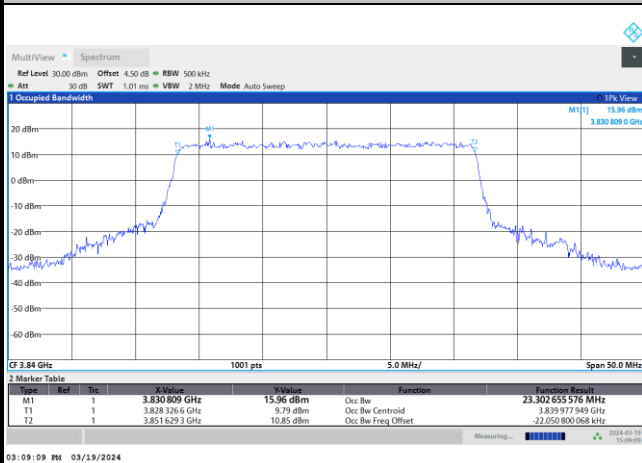
QPSK



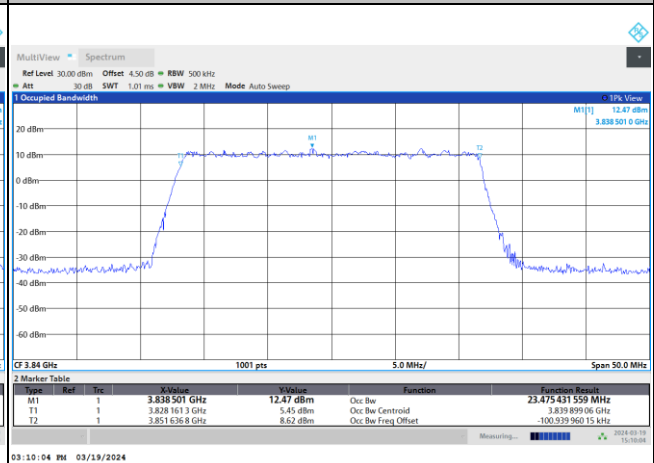
16QAM



64QAM



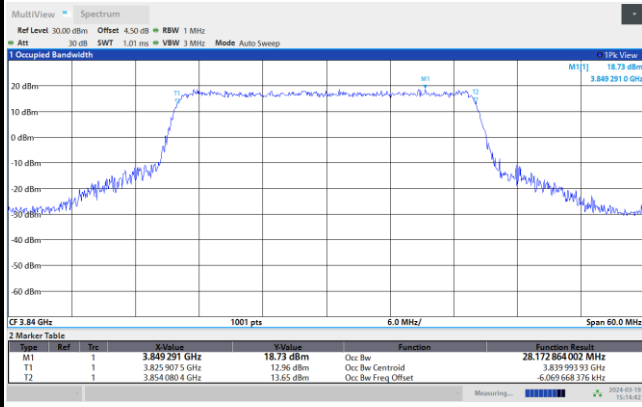
256QAM



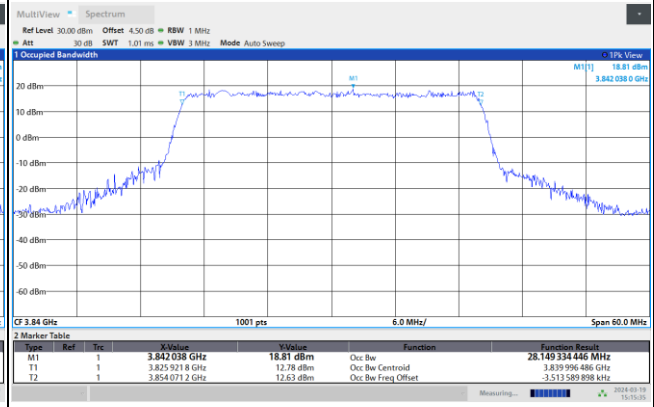


FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

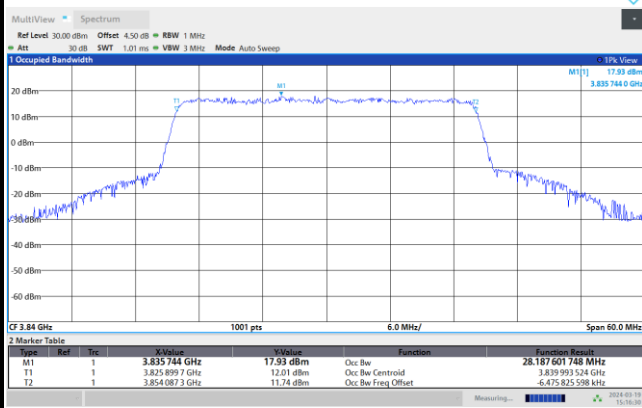
QPSK



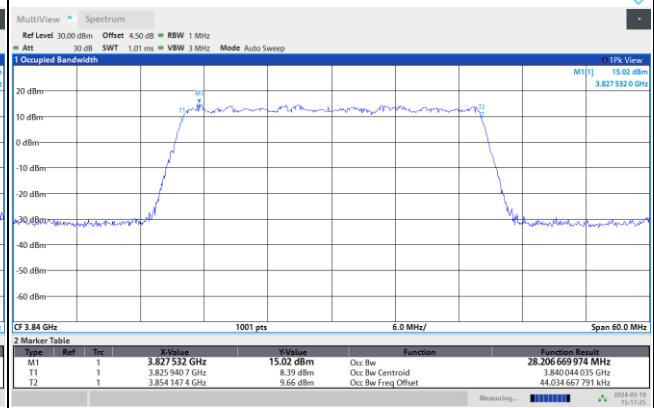
16QAM



64QAM



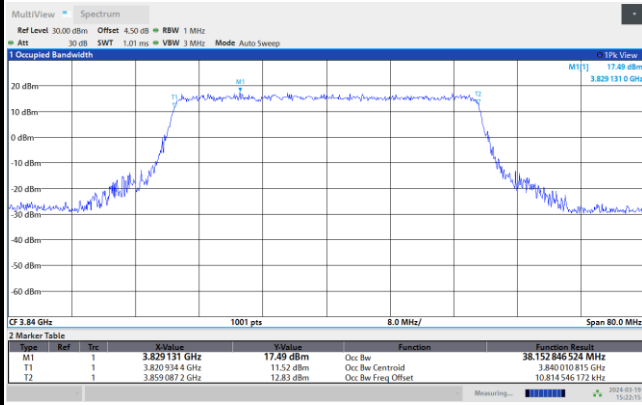
256QAM



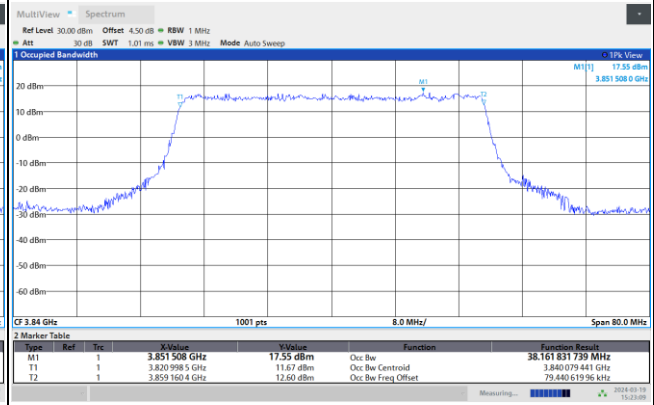


FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

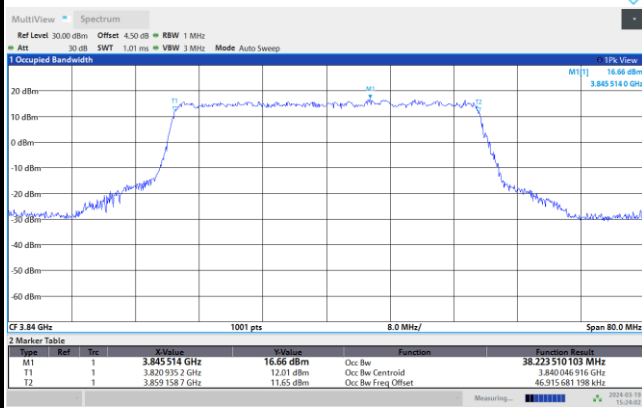
QPSK



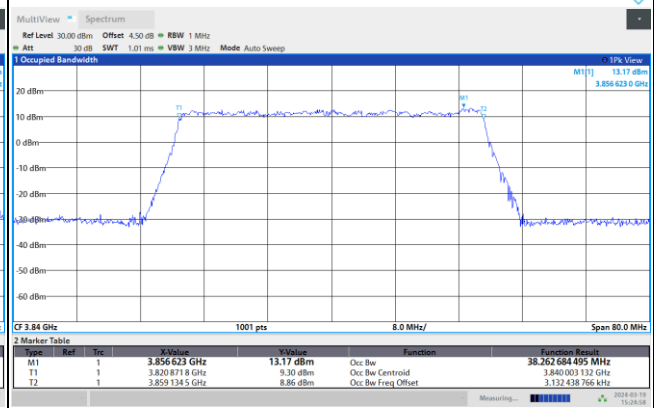
16QAM



64QAM



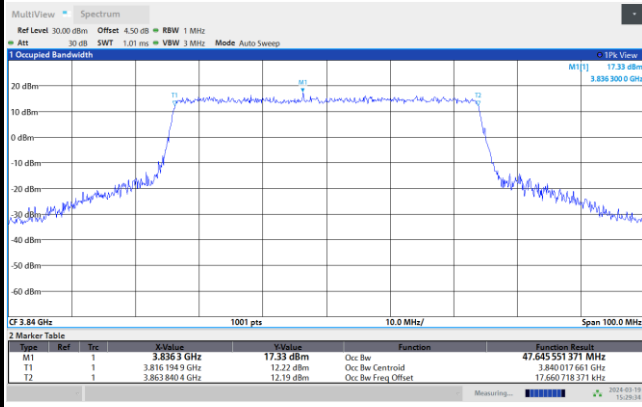
256QAM





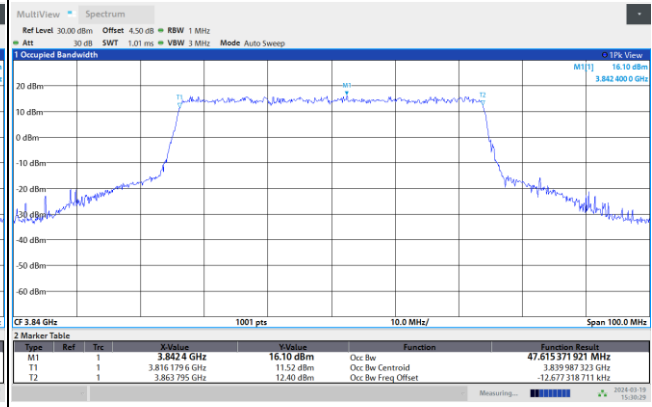
FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

QPSK



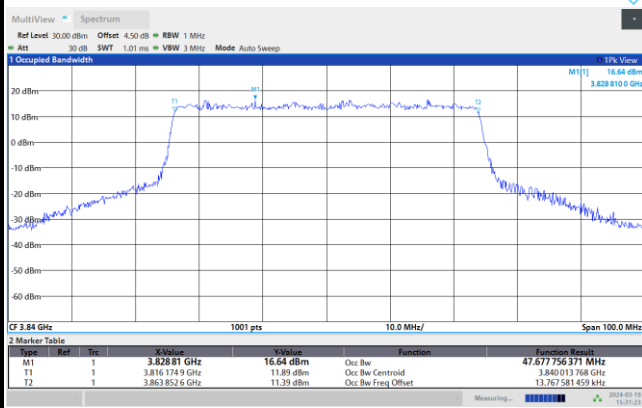
03:29:36 PM 03/19/2024

16QAM



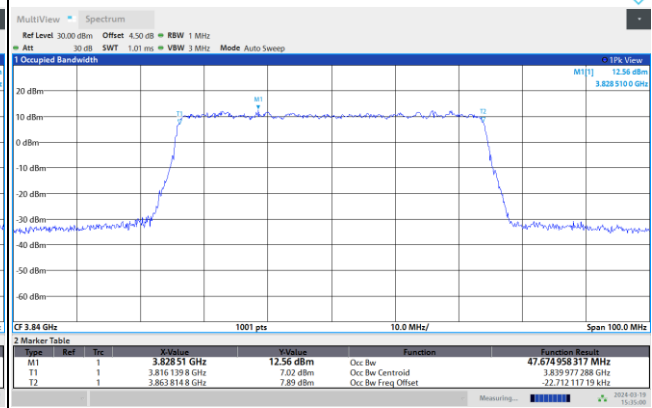
03:30:29 PM 03/19/2024

64QAM



03:31:23 PM 03/19/2024

256QAM

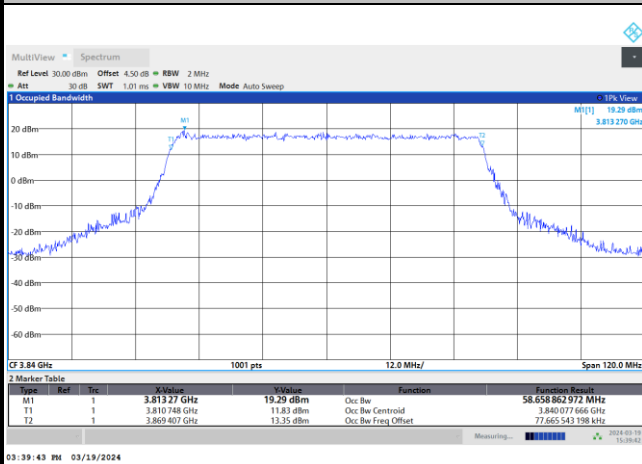


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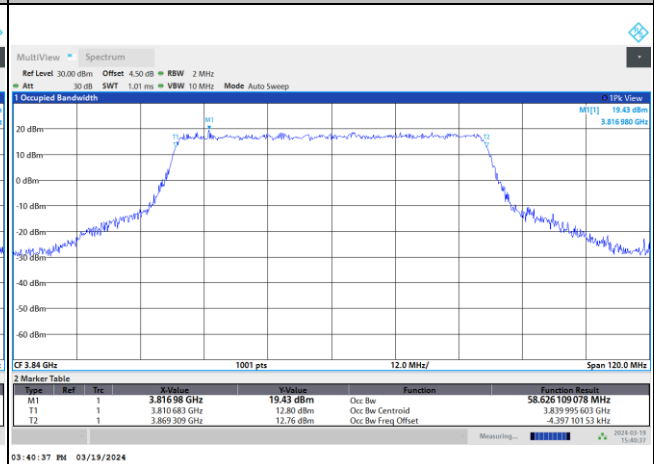


FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

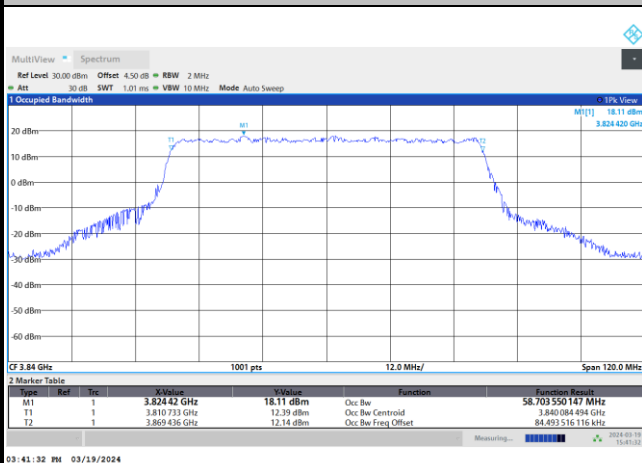
QPSK



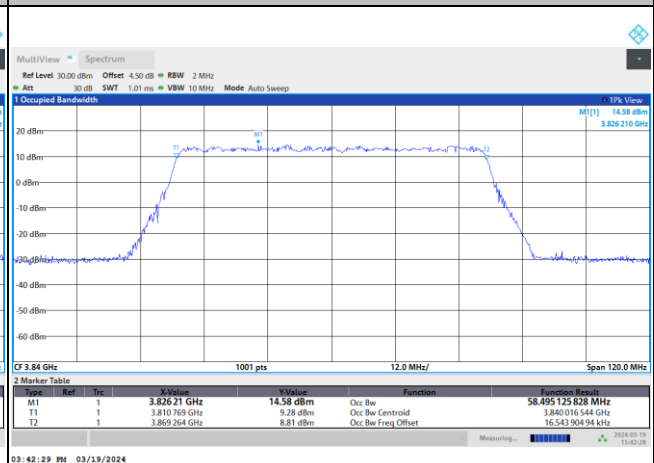
16QAM



64QAM



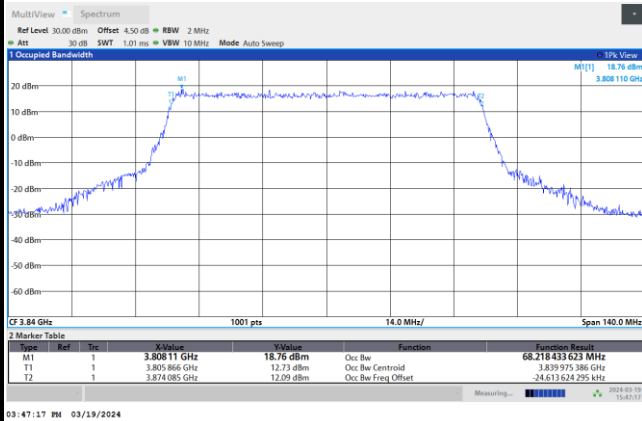
256QAM



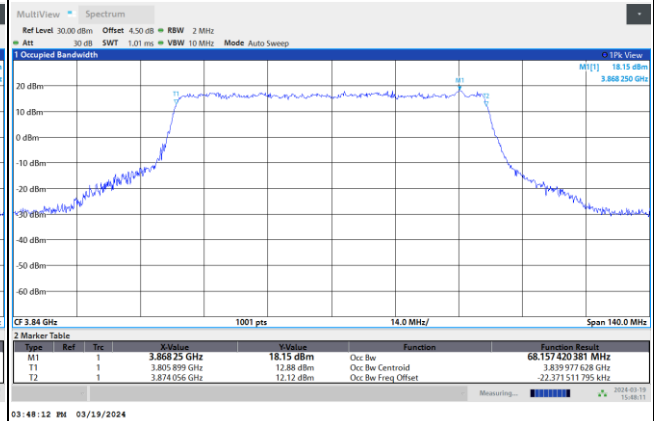


FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

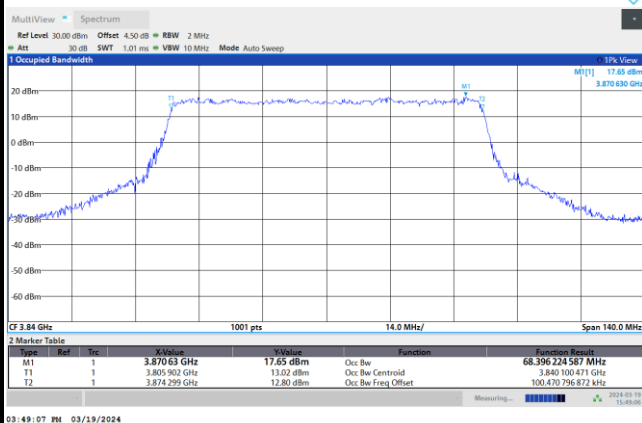
QPSK



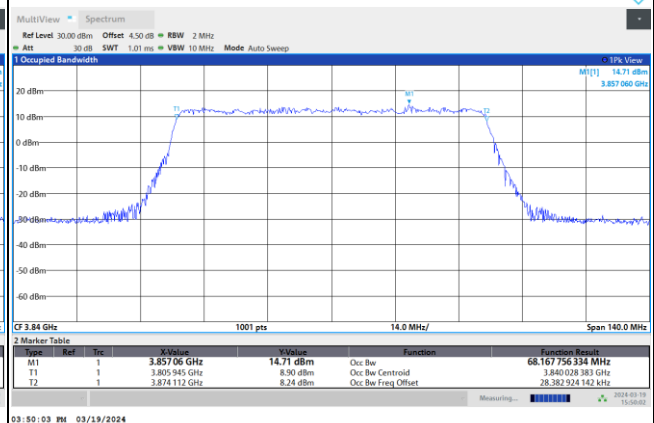
16QAM



64QAM



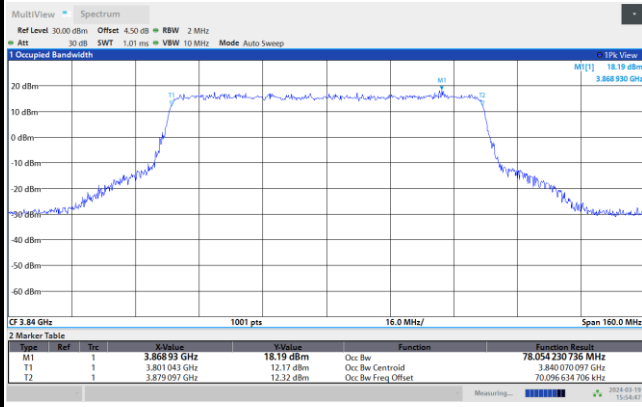
256QAM



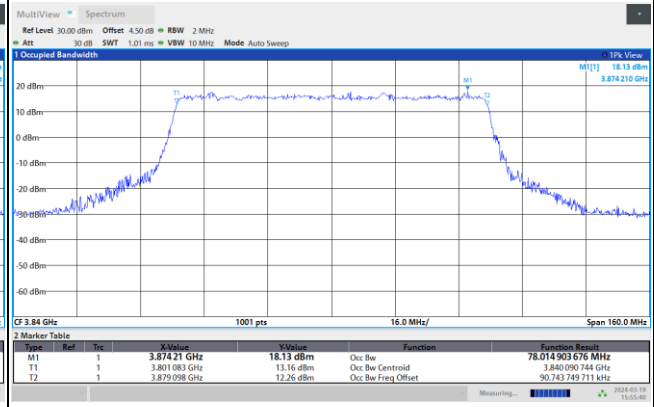


FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

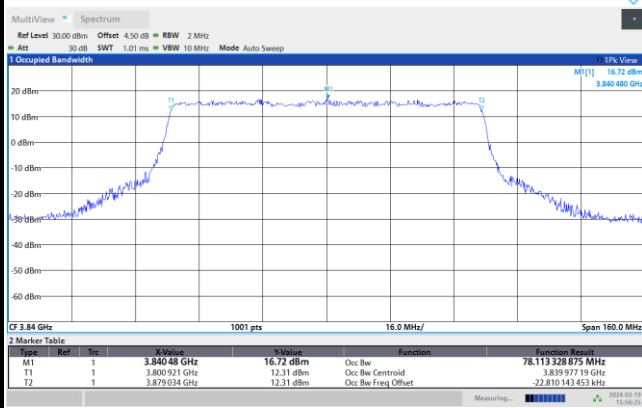
QPSK



16QAM



64QAM



256QAM

