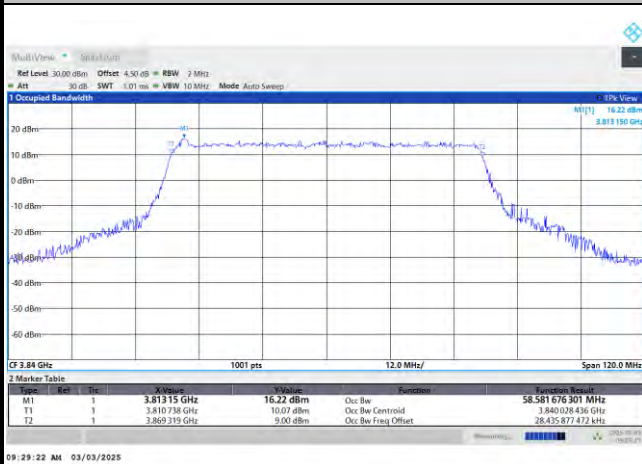




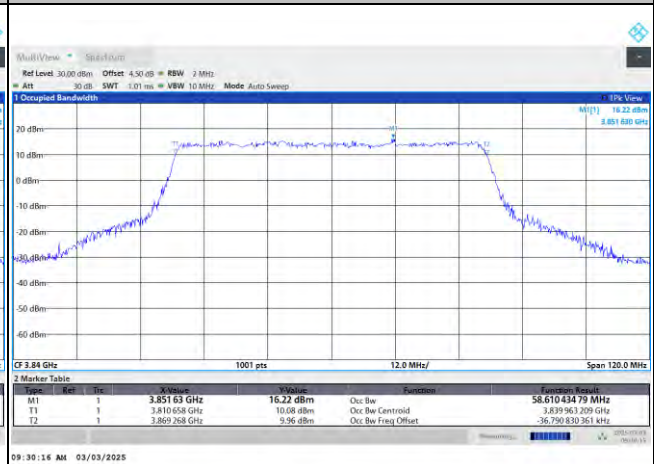
FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

QPSK



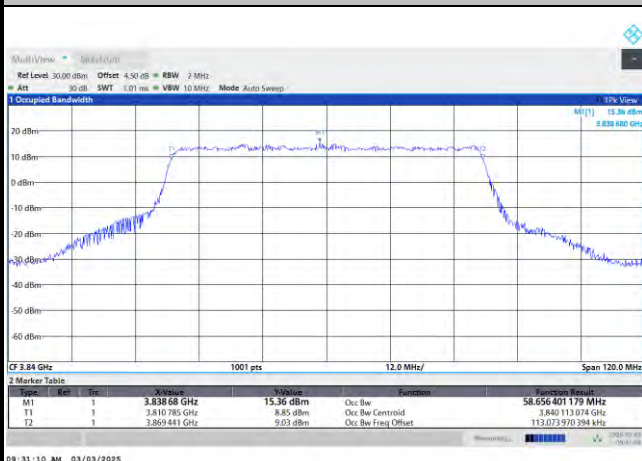
09:29:22 AM 03/03/2025

16QAM



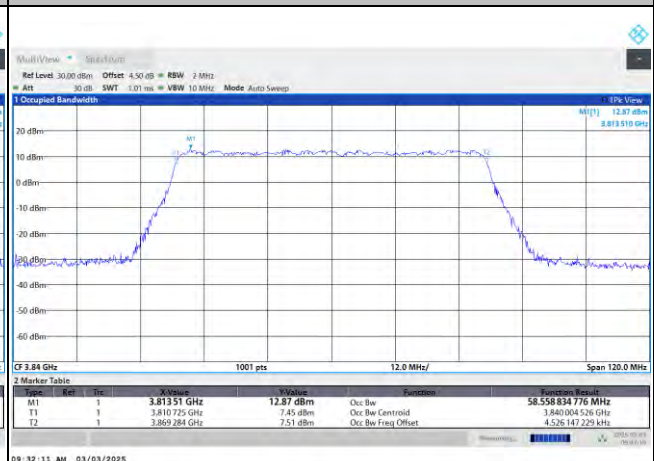
09:30:16 AM 03/03/2025

64QAM



09:31:10 AM 03/03/2025

256QAM

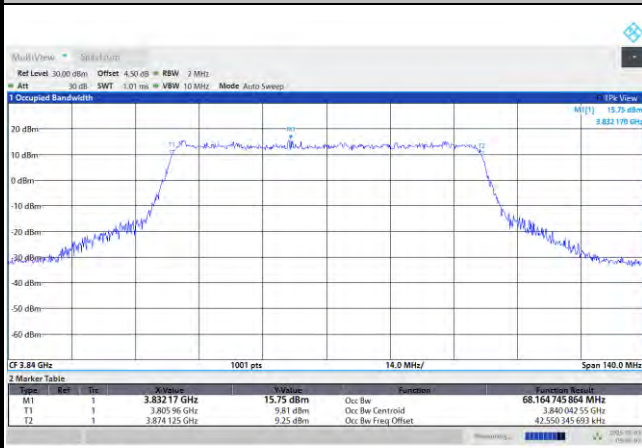


09:32:11 AM 03/03/2025



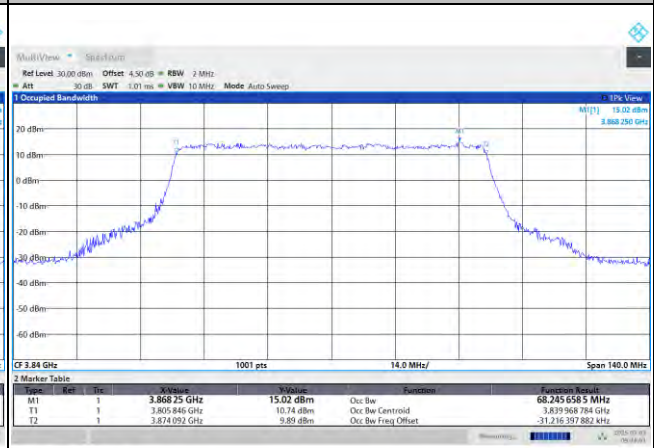
FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

QPSK



09:33:08 AM 03/03/2025

16QAM



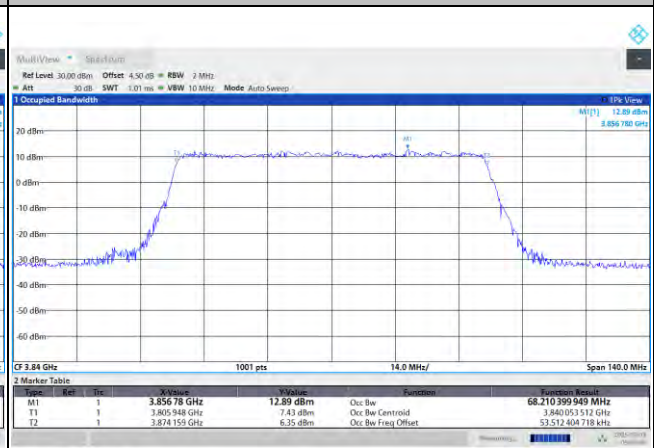
09:34:02 AM 03/03/2025

64QAM



09:34:56 AM 03/03/2025

256QAM

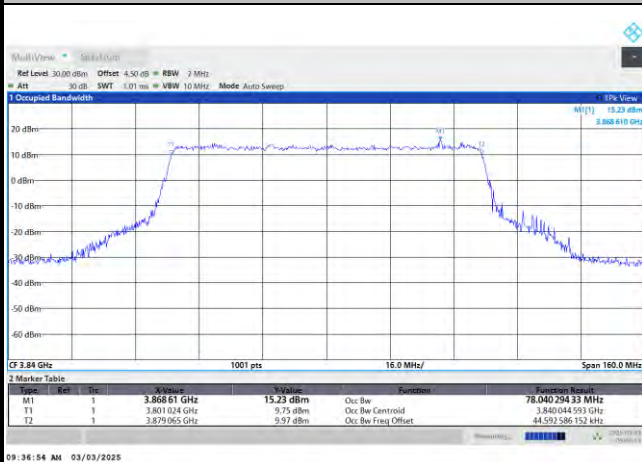


09:35:56 AM 03/03/2025



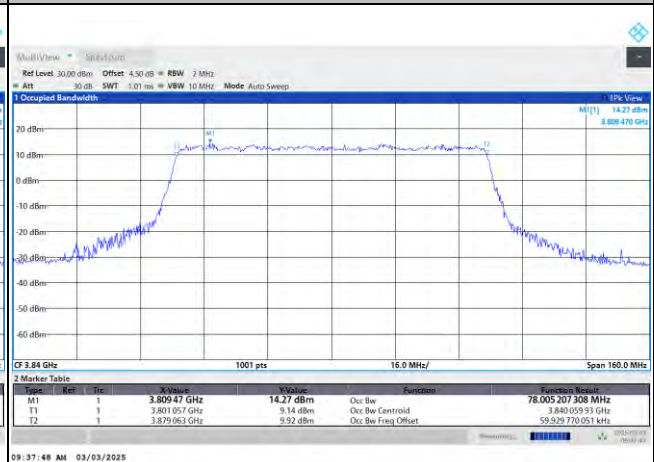
FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

QPSK



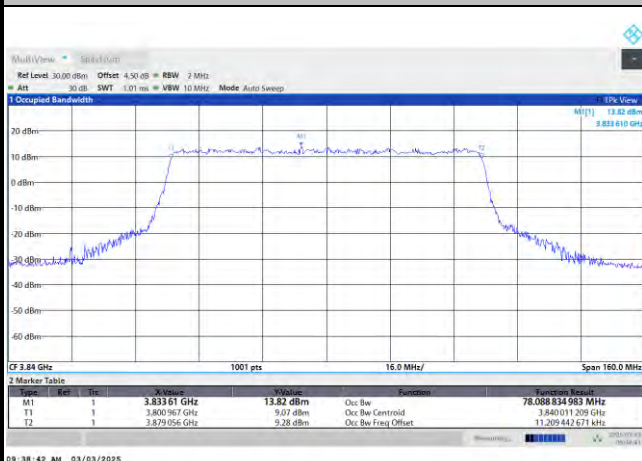
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16QAM



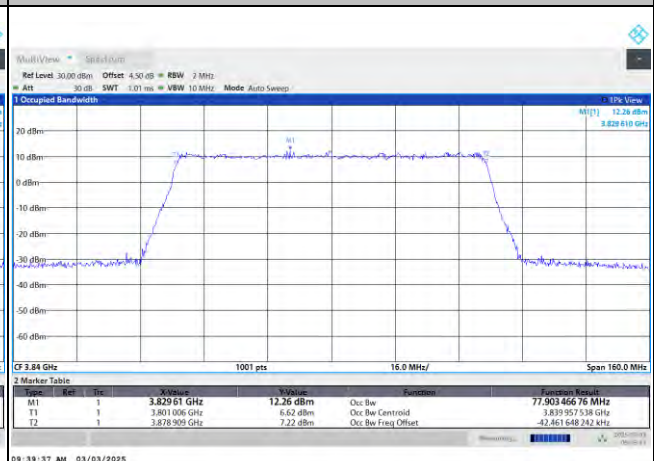
09:37:48 AM 03/03/2025

64QAM



09:38:42 AM 03/03/2025

256QAM

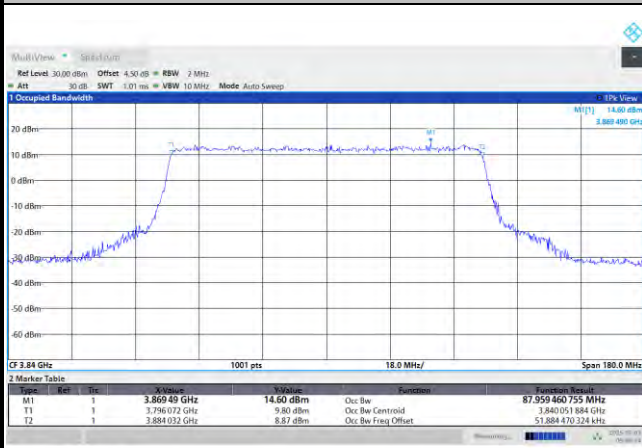


09:39:37 AM 03/03/2025

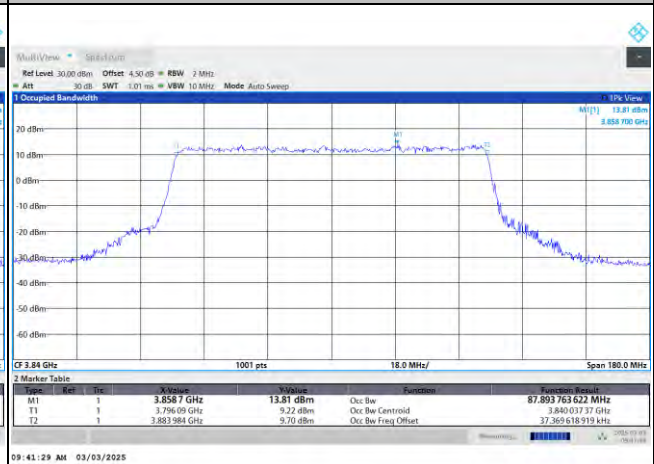


FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB

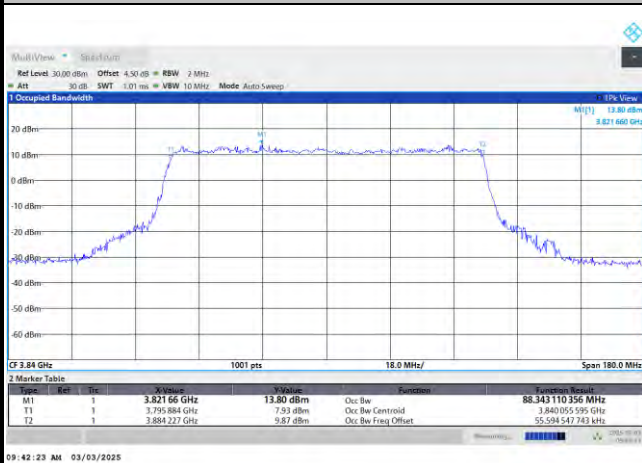
QPSK



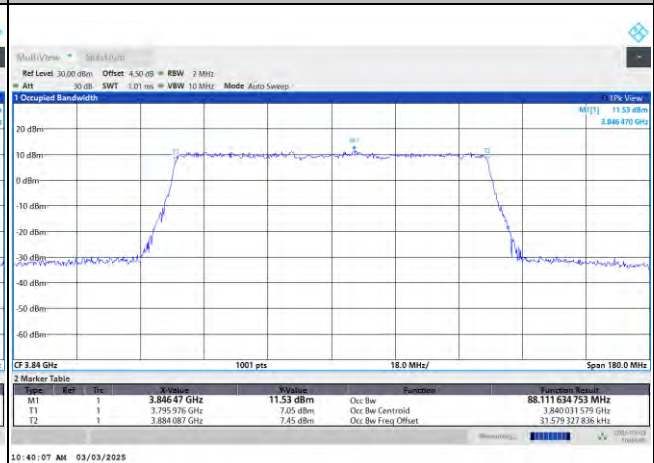
16QAM



64QAM



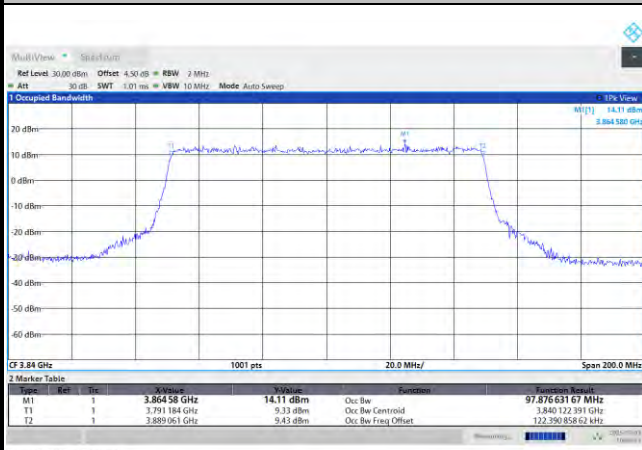
256QAM





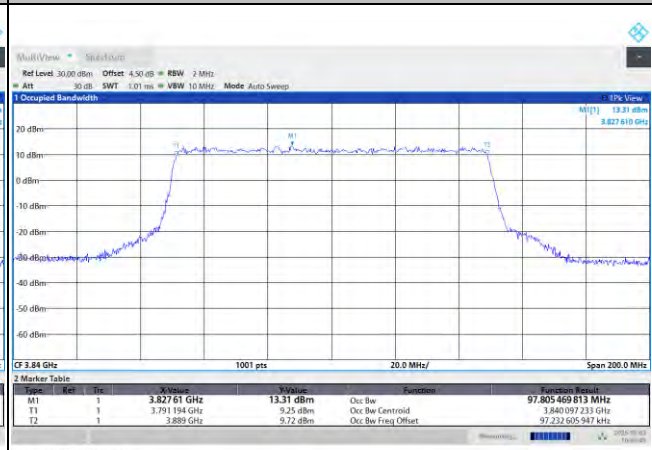
FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB

QPSK



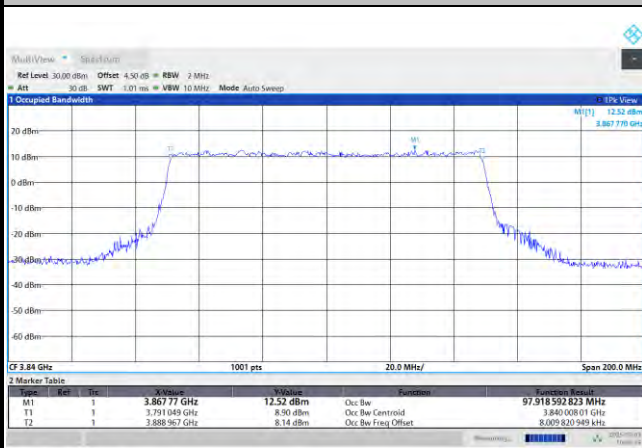
10:00:53 AM 03/03/2025

16QAM



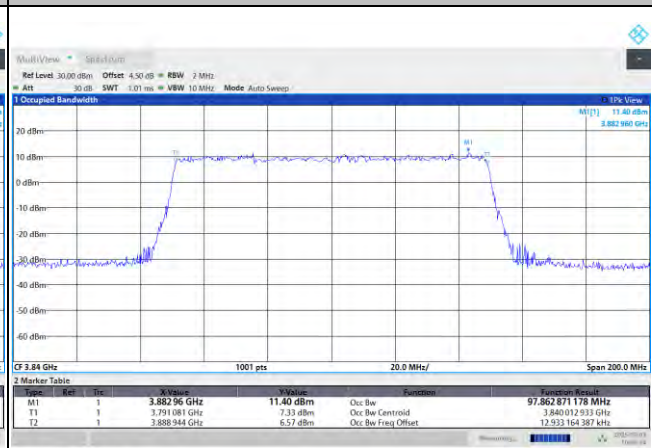
10:01:47 AM 03/03/2025

64QAM

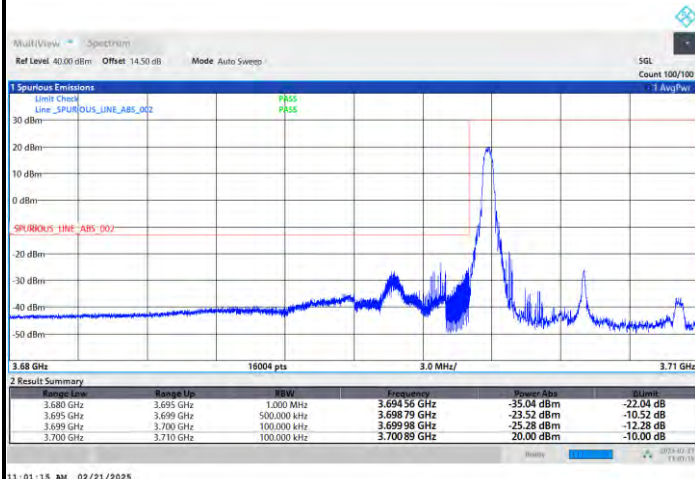
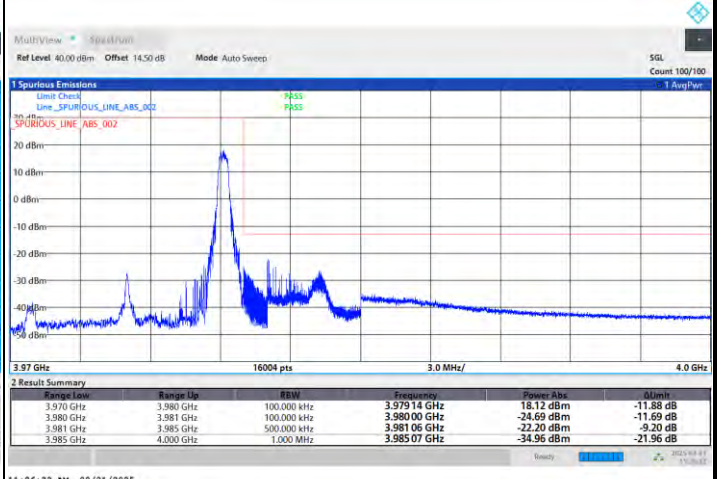
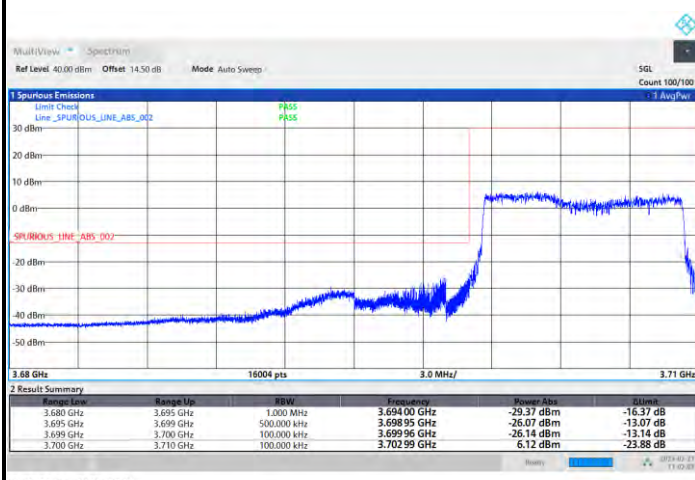
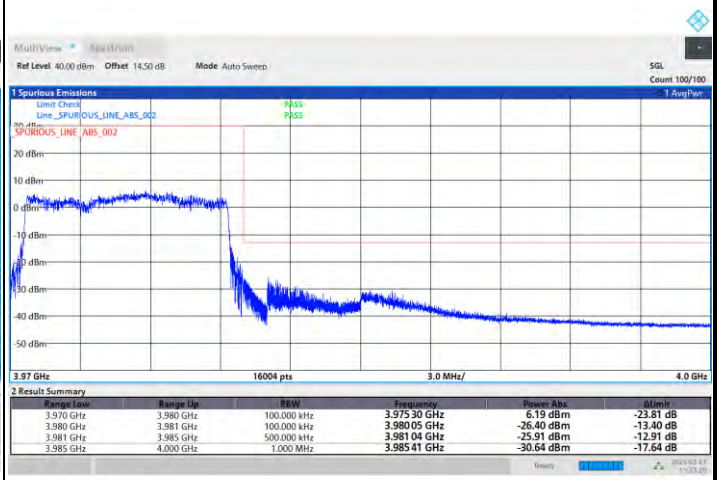


10:02:40 AM 03/03/2025

256QAM



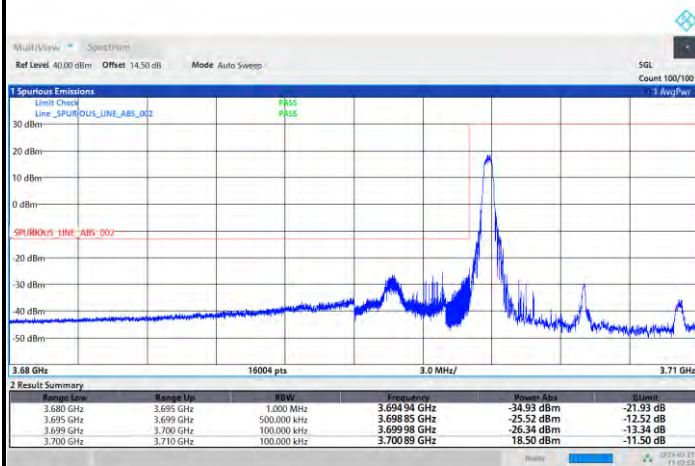
10:03:35 AM 03/03/2025

**Conducted Band Edge****FR1 n77 / 10MHz / CP OFDM / QPSK****Lowest Band Edge / 1RB0****Highest Band Edge / 1RBmax****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

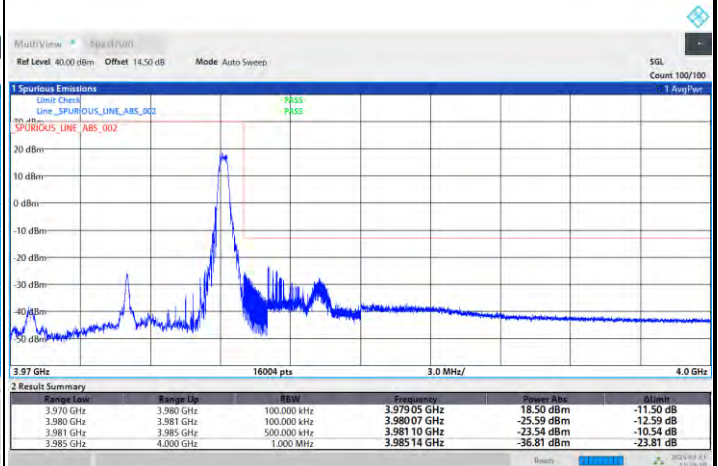


FR1 n77 / 10MHz / CP OFDM / 16QAM

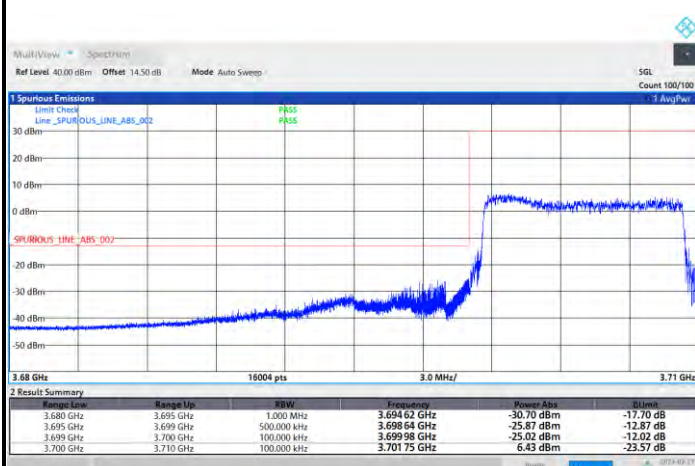
Lowest Band Edge / 1RB0



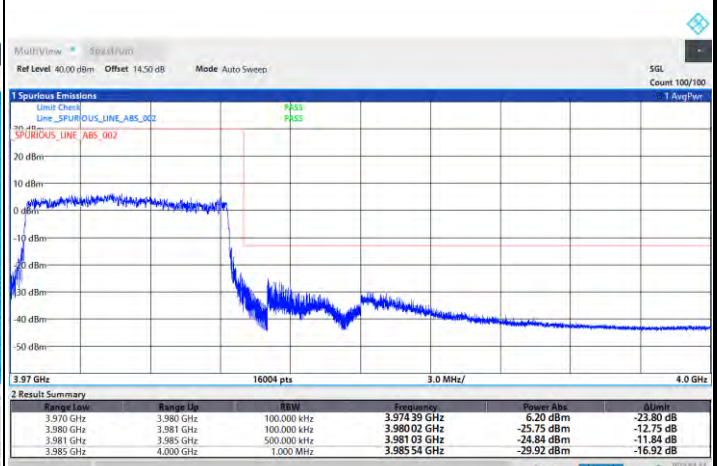
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



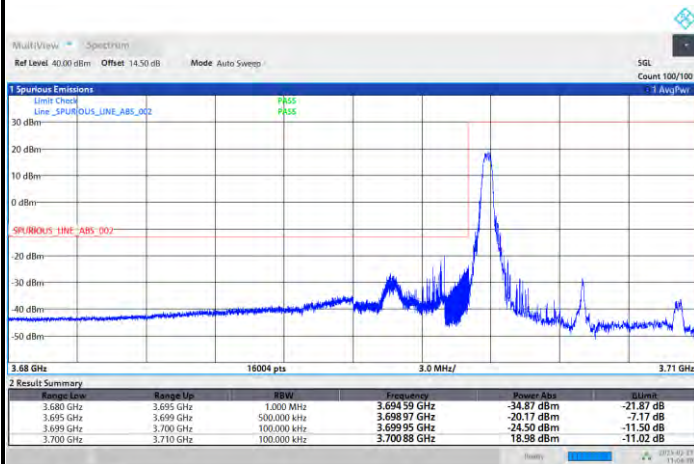
Highest Band Edge / Full RB





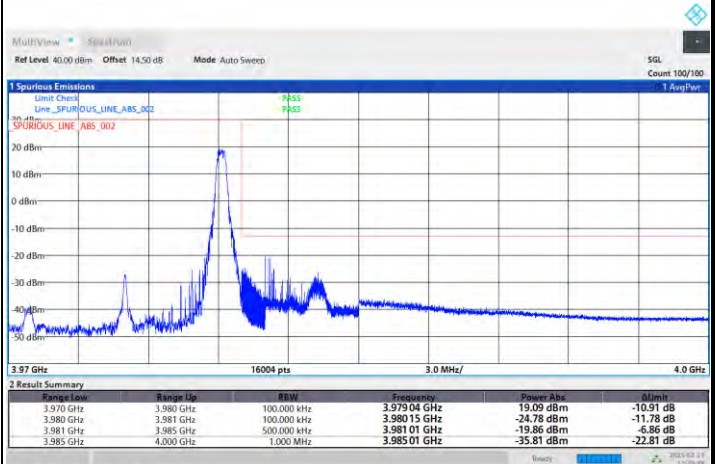
FR1 n77 / 10MHz / CP OFDM / 64QAM

Lowest Band Edge / 1RB0



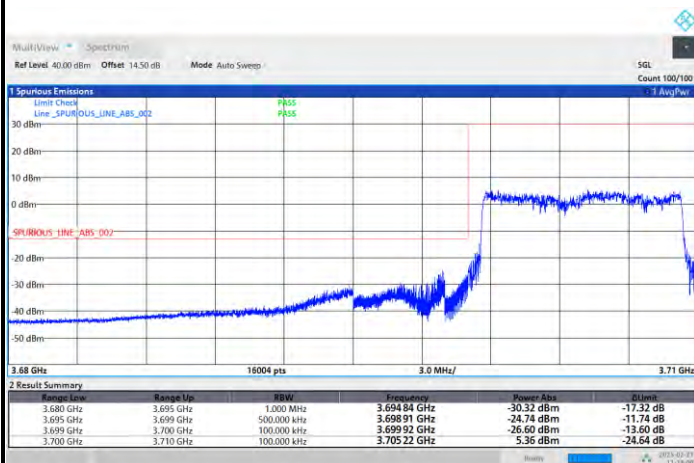
11:04:30 AM 02/21/2025

Highest Band Edge / 1RBmax



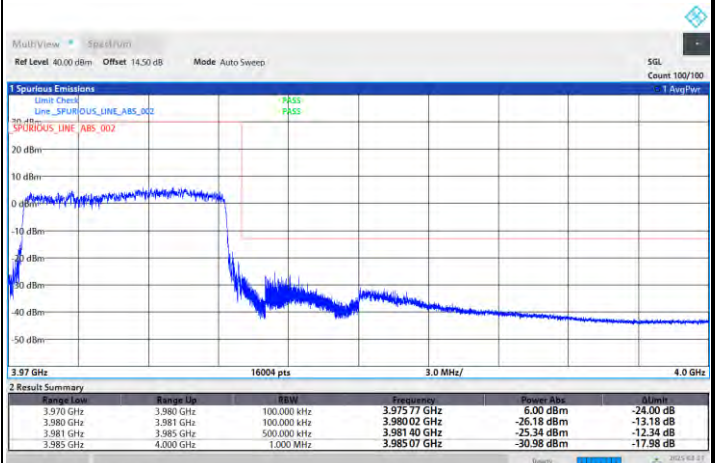
11:29:49 AM 02/21/2025

Lowest Band Edge / Full RB



11:24:00 AM 02/21/2025

Highest Band Edge / Full RB

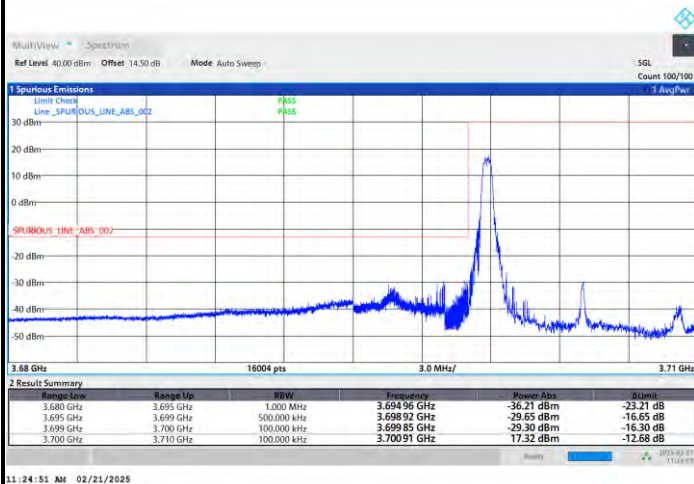


11:30:37 AM 02/21/2025



FR1 n77 / 10MHz / CP OFDM / 256QAM

Lowest Band Edge / 1RB0



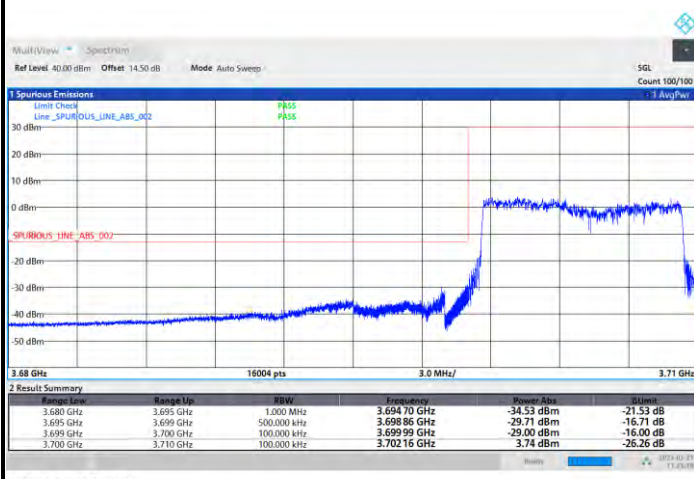
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Highest Band Edge / 1RBmax



11:31:28 AM 02/21/2025

Lowest Band Edge / Full RB

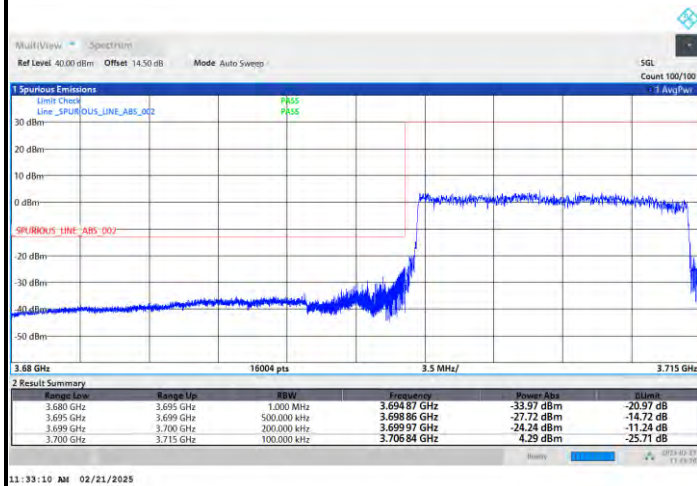
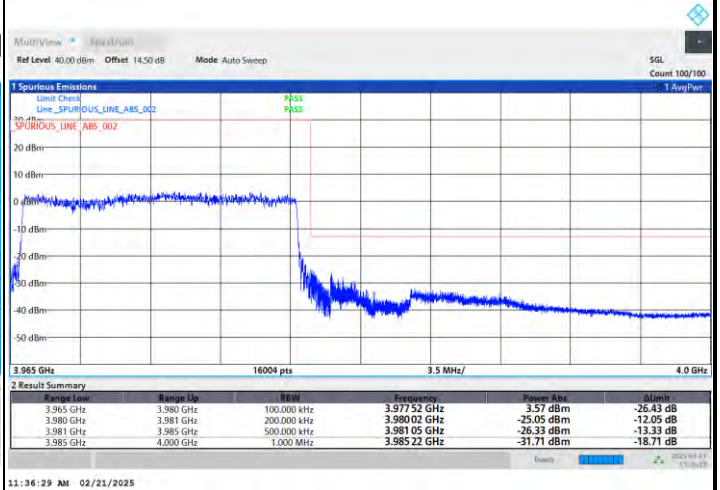
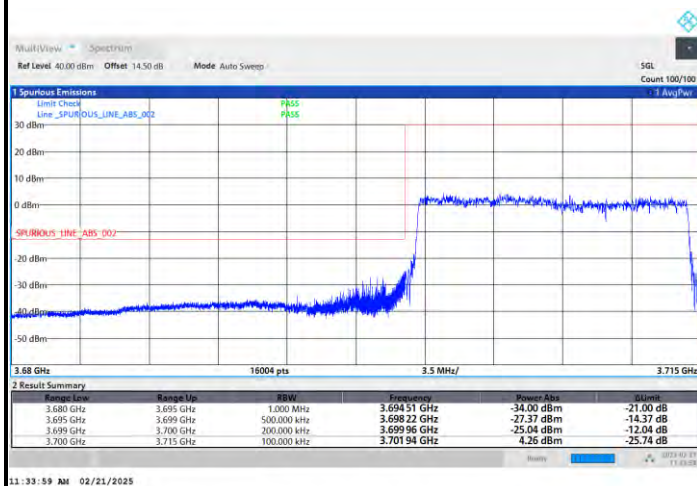
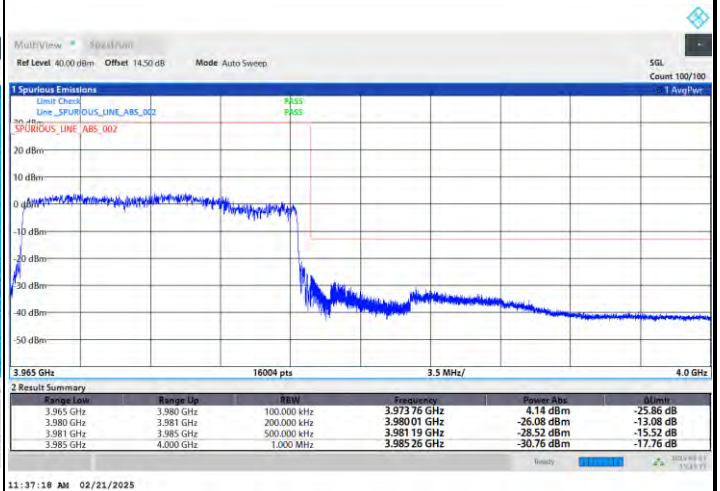


11:25:40 AM 02/21/2025

Highest Band Edge / Full RB



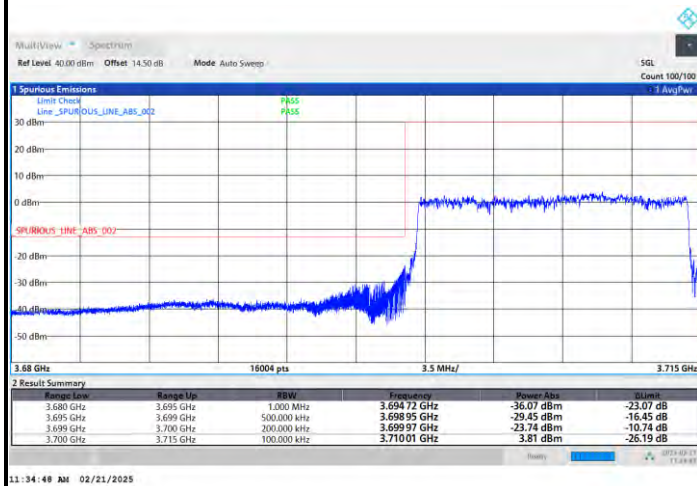
11:32:17 AM 02/21/2025

**FR1 n77 / 15MHz / CP OFDM / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n77 / 15MHz / CP OFDM / 16QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

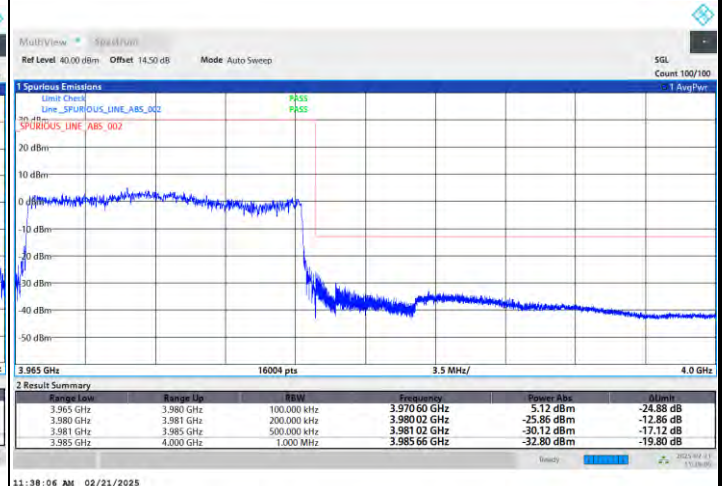


FR1 n77 / 15MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

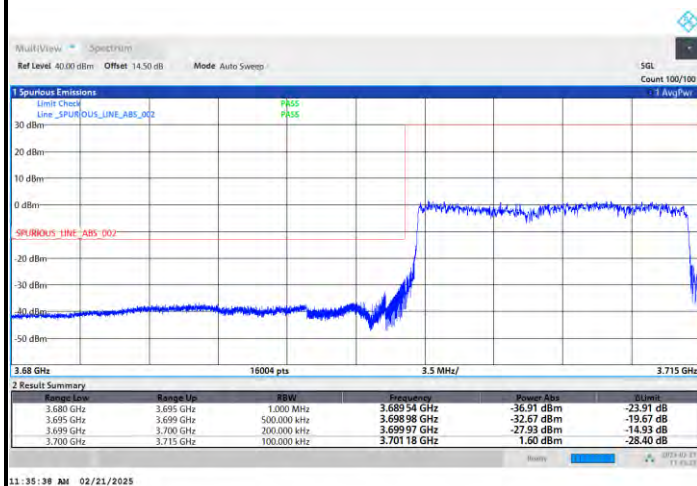


Highest Band Edge / Full RB

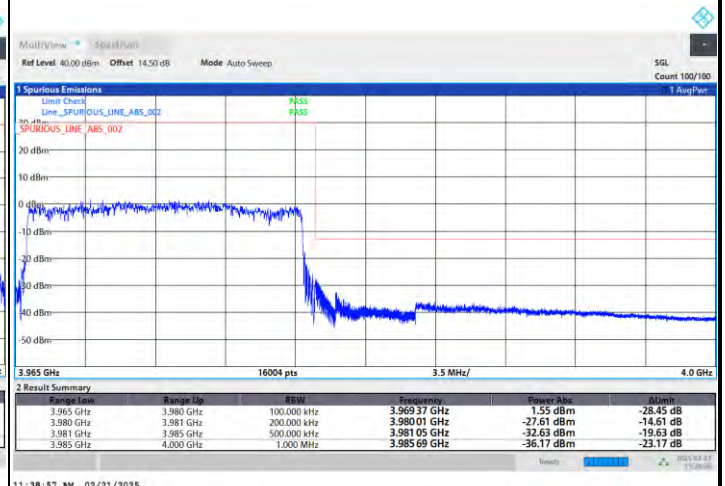


FR1 n77 / 15MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



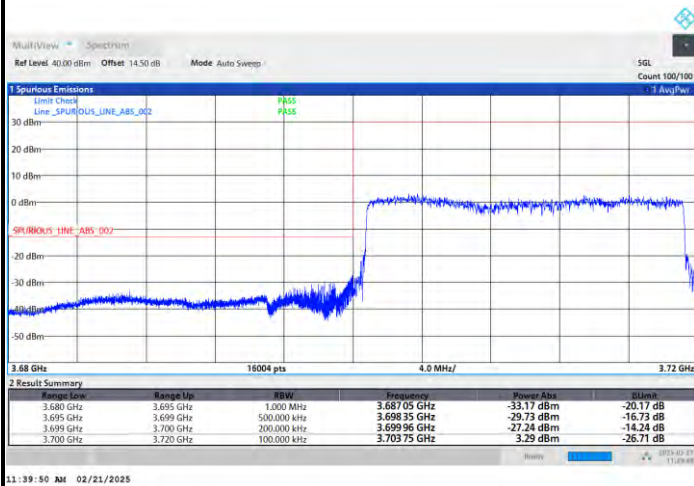
Highest Band Edge / Full RB



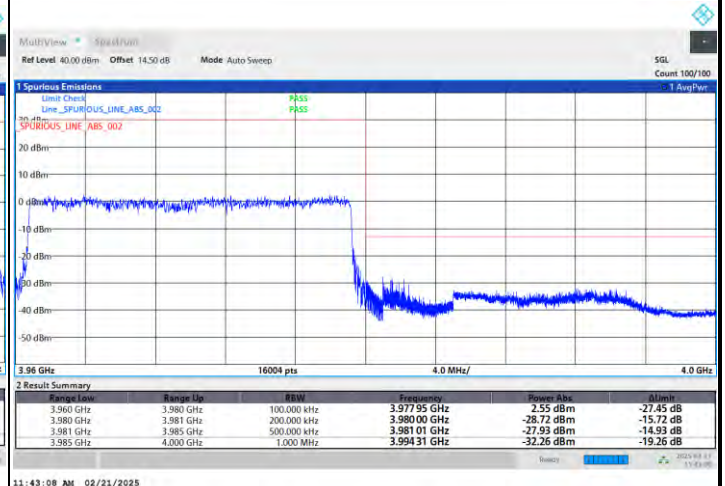


FR1 n77 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

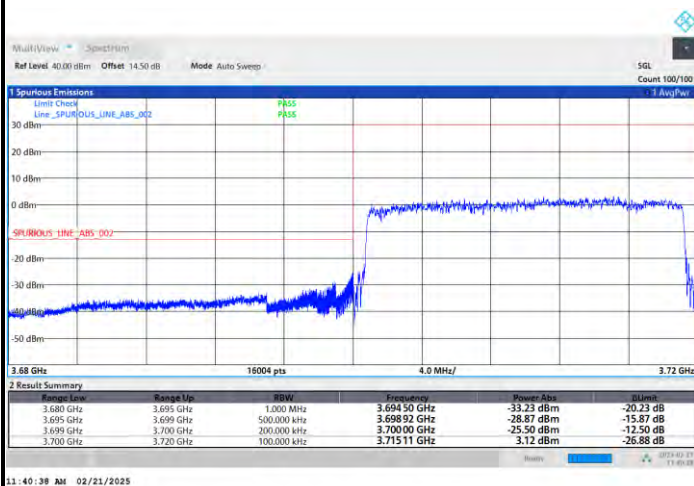


Highest Band Edge / Full RB

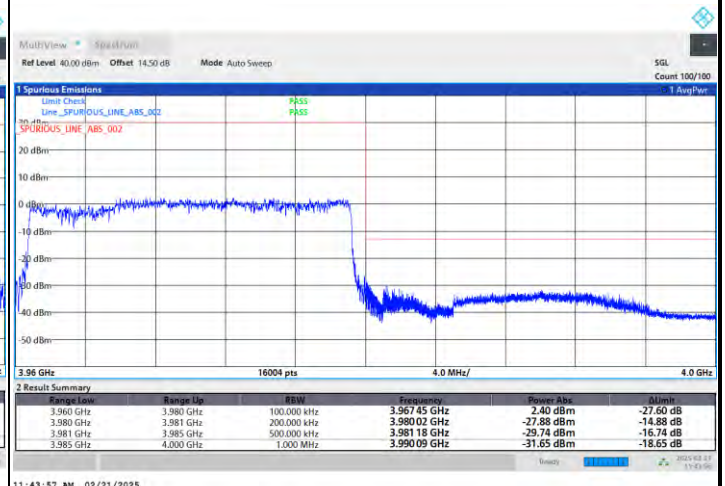


FR1 n77 / 20MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



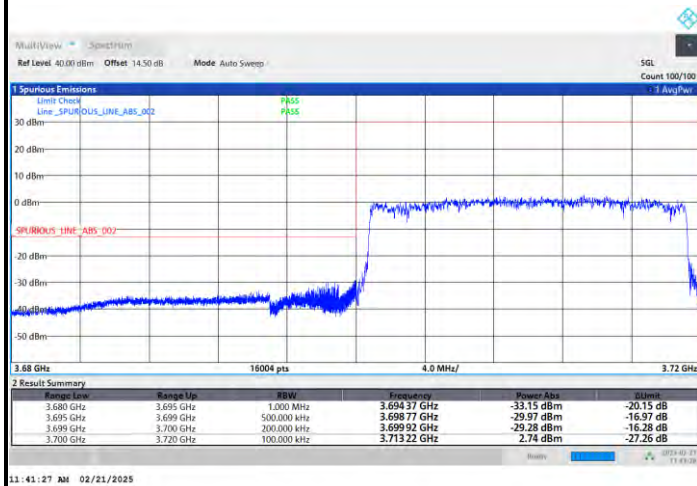
Highest Band Edge / Full RB



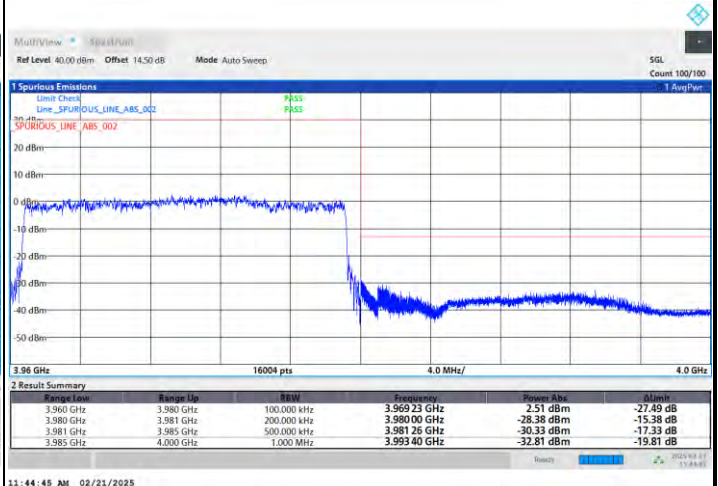


FR1 n77 / 20MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

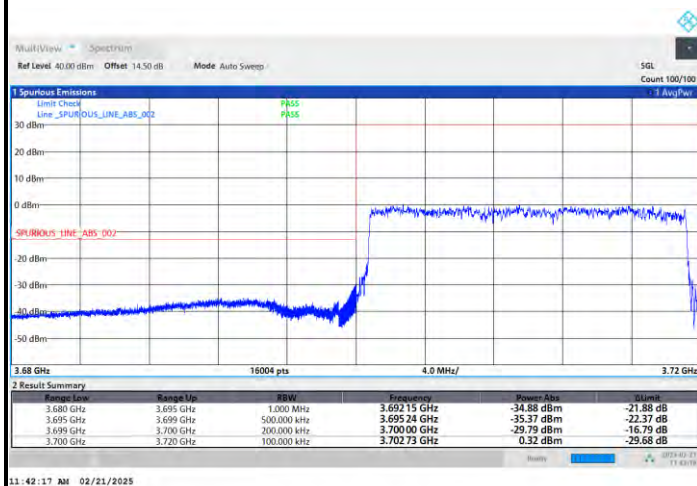


Highest Band Edge / Full RB



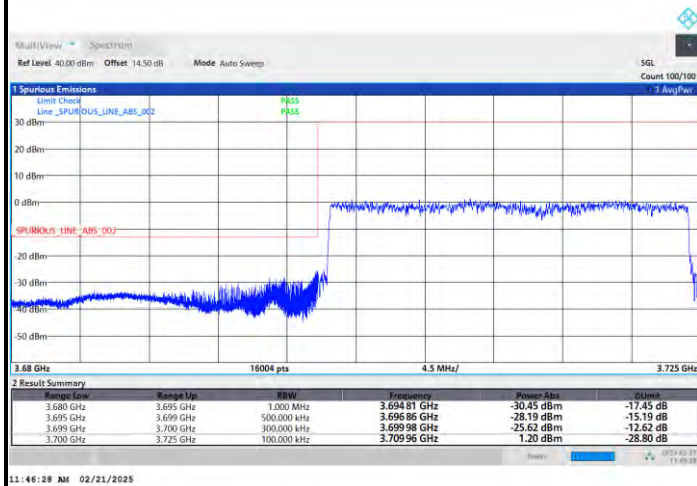
FR1 n77 / 20MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

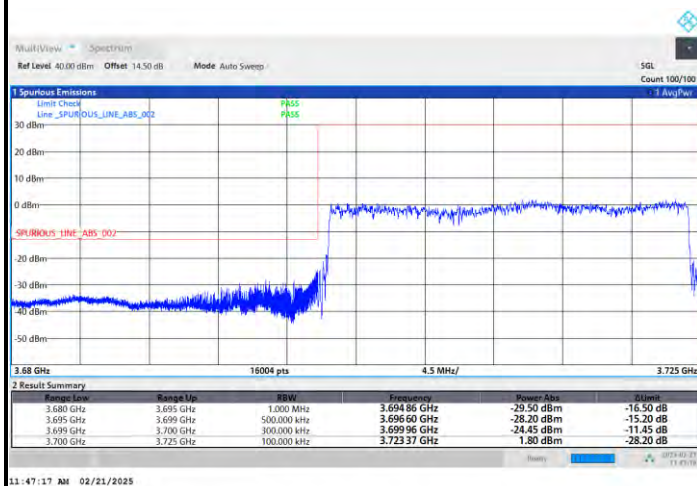


**FR1 n77 / 25MHz / CP OFDM / QPSK****Lowest Band Edge / Full RB**

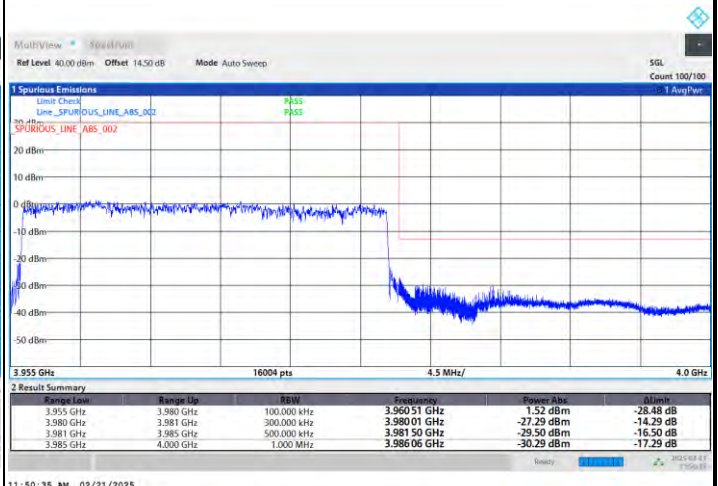
11:46:28 AM 02/21/2025

Highest Band Edge / Full RB

11:49:47 AM 02/21/2025

FR1 n77 / 25MHz / CP OFDM / 16QAM**Lowest Band Edge / Full RB**

11:47:17 AM 02/21/2025

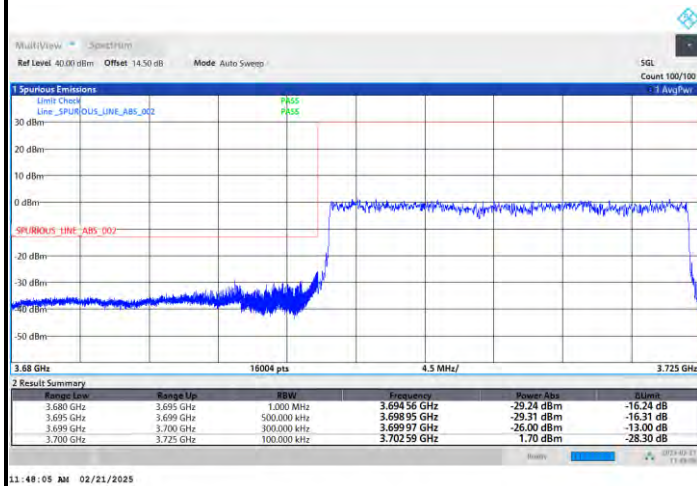
Highest Band Edge / Full RB

11:50:35 AM 02/21/2025

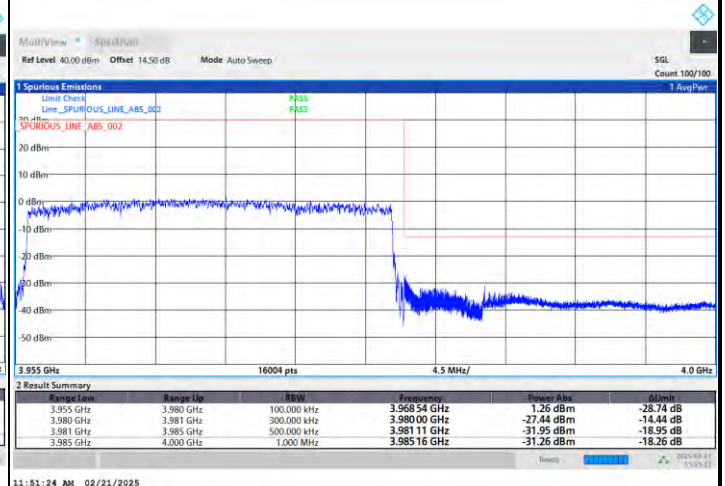


FR1 n77 / 25MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

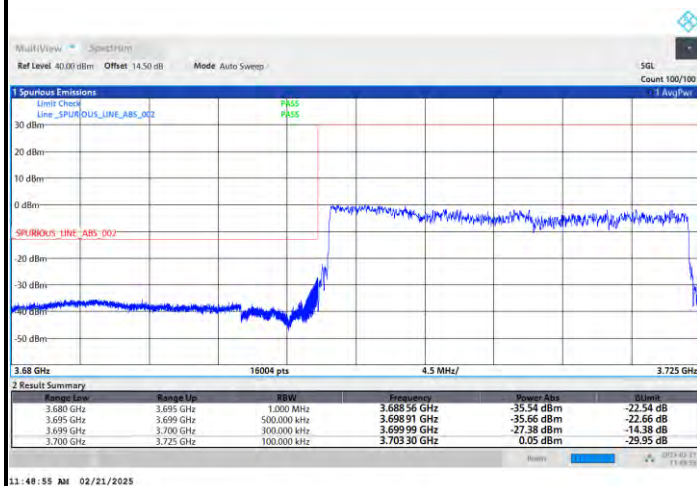


Highest Band Edge / Full RB



FR1 n77 / 25MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



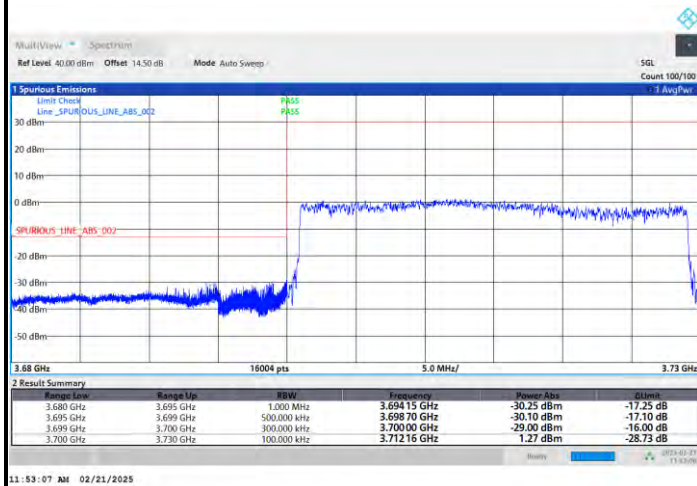
Highest Band Edge / Full RB



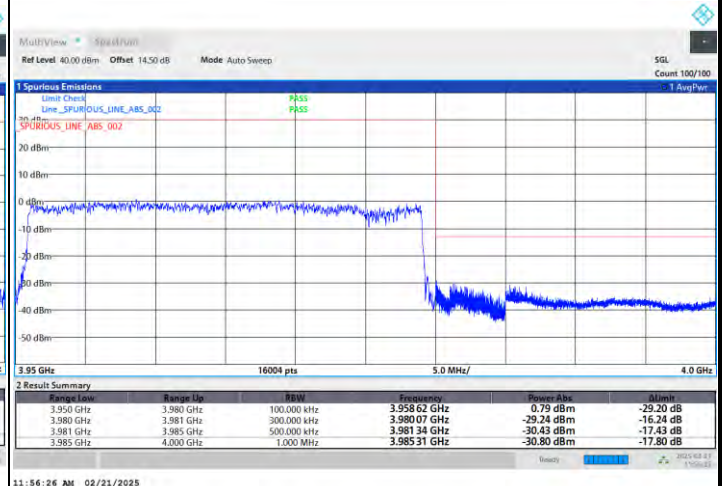


FR1 n77 / 30MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

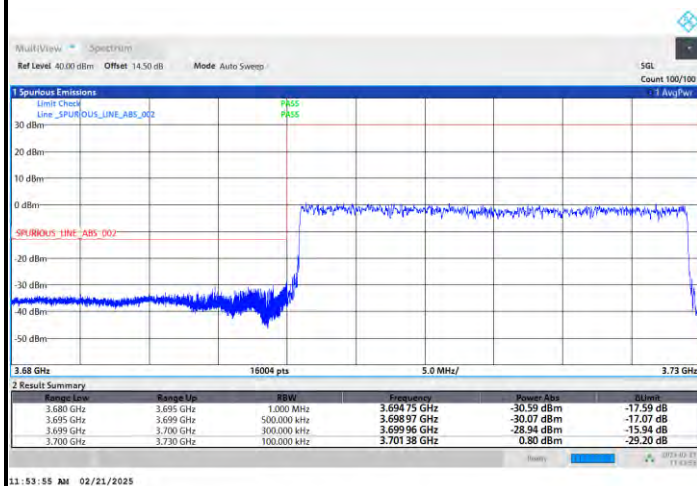


Highest Band Edge / Full RB

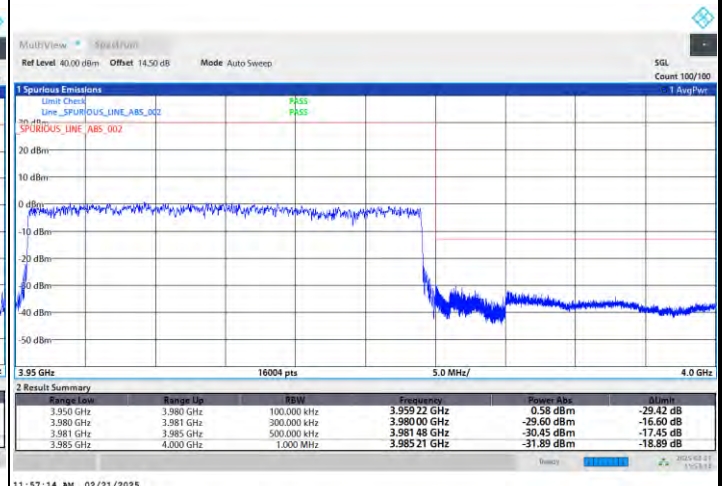


FR1 n77 / 30MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



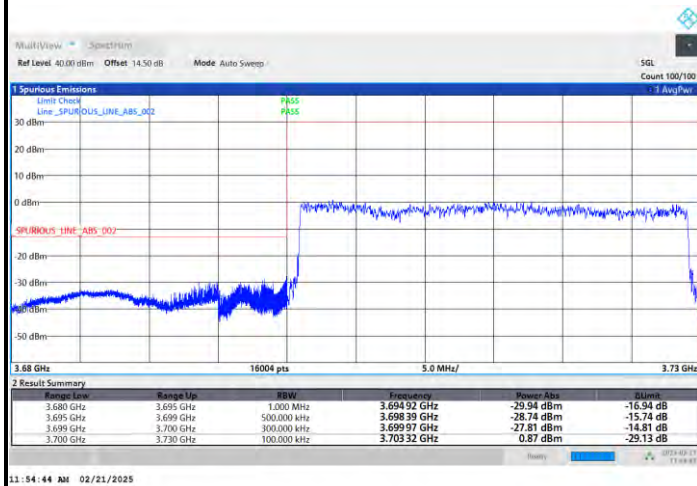
Highest Band Edge / Full RB



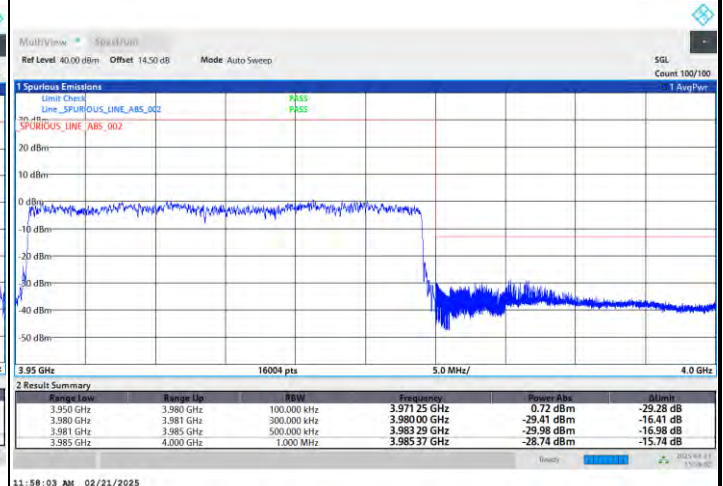


FR1 n77 / 30MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

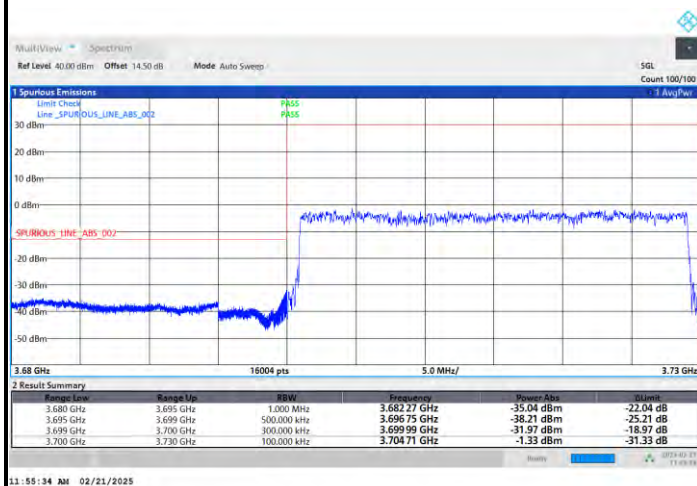


Highest Band Edge / Full RB



FR1 n77 / 30MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



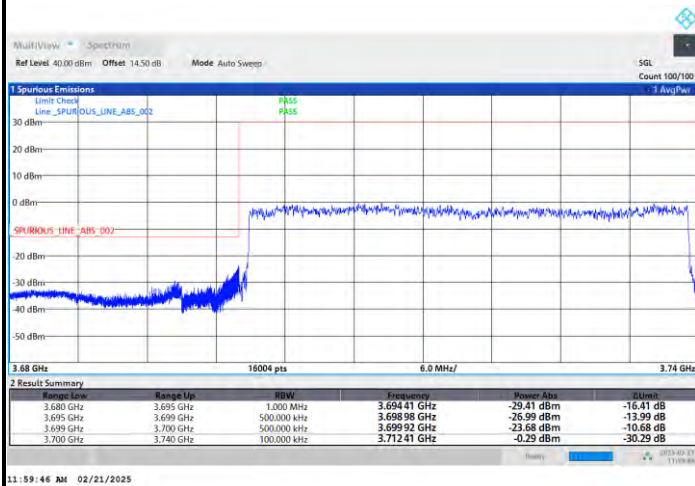
Highest Band Edge / Full RB





FR1 n77 / 40MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



11:59:46 AM 02/21/2025

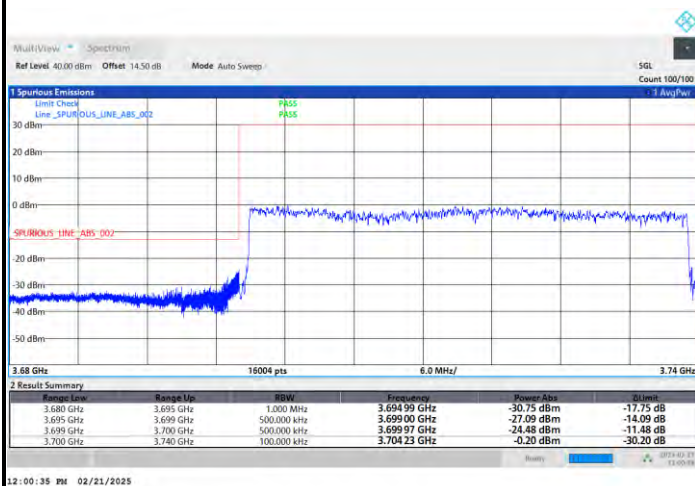
Highest Band Edge / Full RB



02:01:19 PM 02/21/2025

FR1 n77 / 40MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



12:00:35 PM 02/21/2025

Highest Band Edge / Full RB

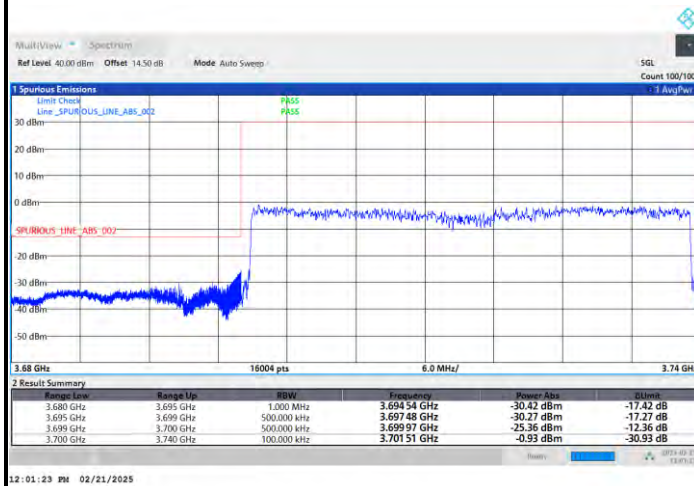


02:02:08 PM 02/21/2025



FR1 n77 / 40MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



12:01:23 PM 02/21/2025

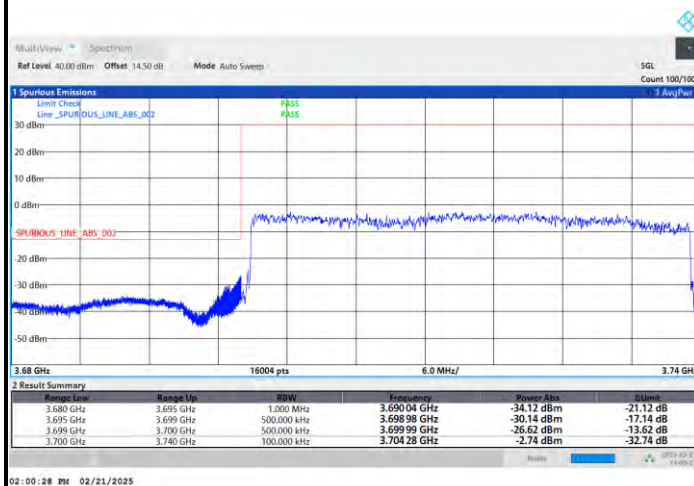
Highest Band Edge / Full RB



02:02:56 PM 02/21/2025

FR1 n77 / 40MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



02:00:28 PM 02/21/2025

Highest Band Edge / Full RB

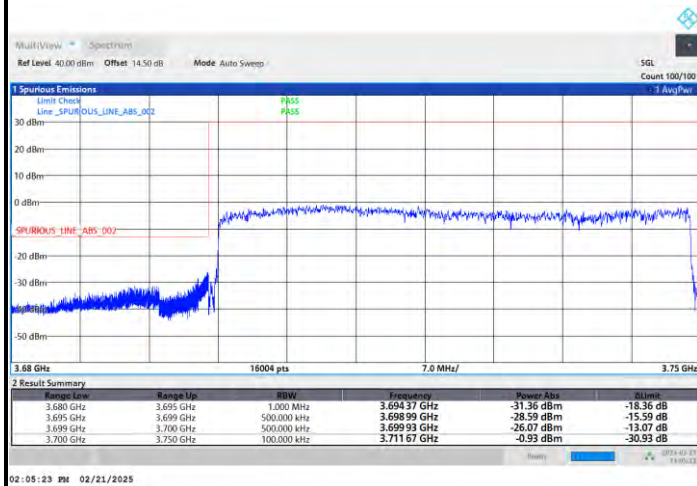


02:04:30 PM 02/21/2025



FR1 n77 / 50MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



02:05:23 PM 02/21/2025

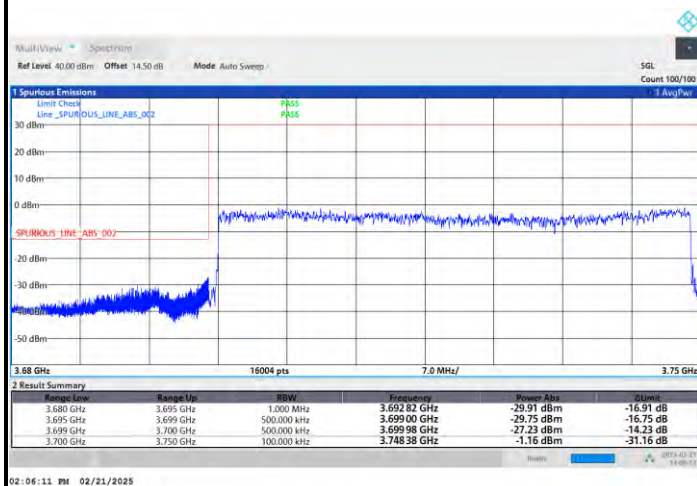
Highest Band Edge / Full RB



02:10:41 PM 02/21/2025

FR1 n77 / 50MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



02:06:11 PM 02/21/2025

Highest Band Edge / Full RB

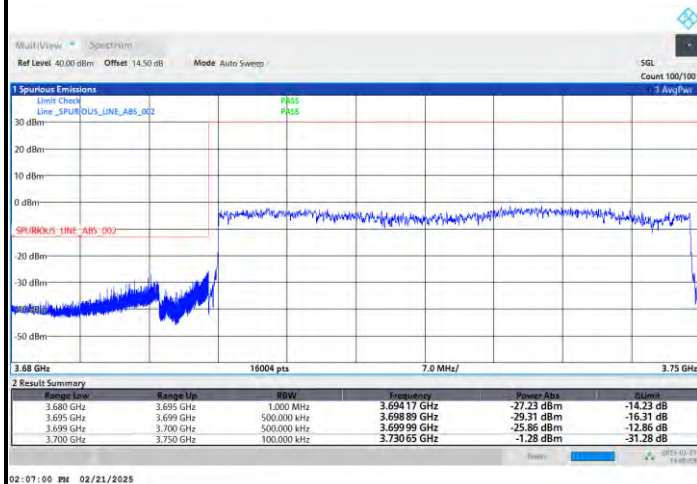


02:11:30 PM 02/21/2025



FR1 n77 / 50MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

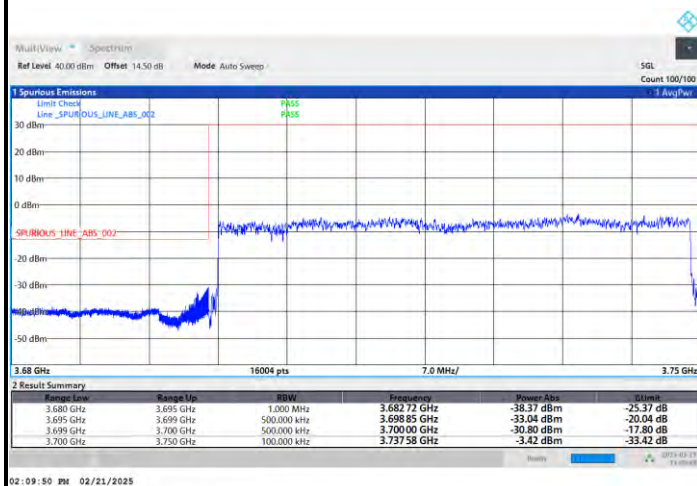


Highest Band Edge / Full RB

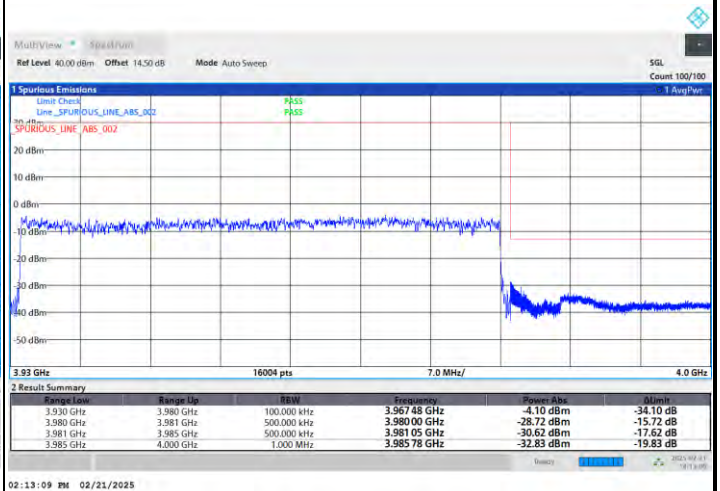


FR1 n77 / 50MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



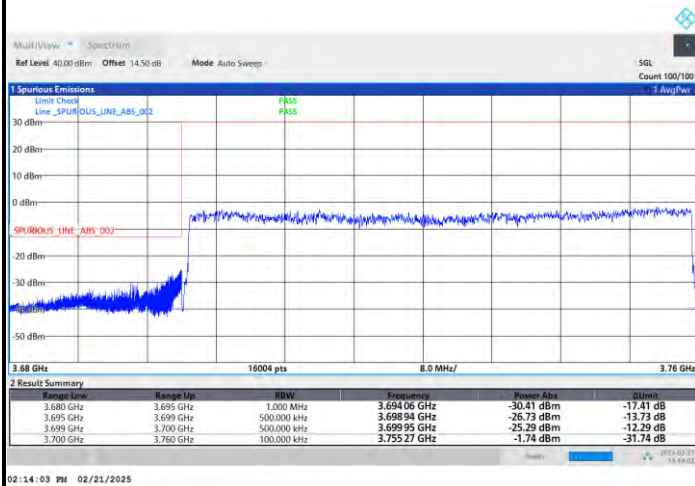
Highest Band Edge / Full RB





FR1 n77 / 60MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

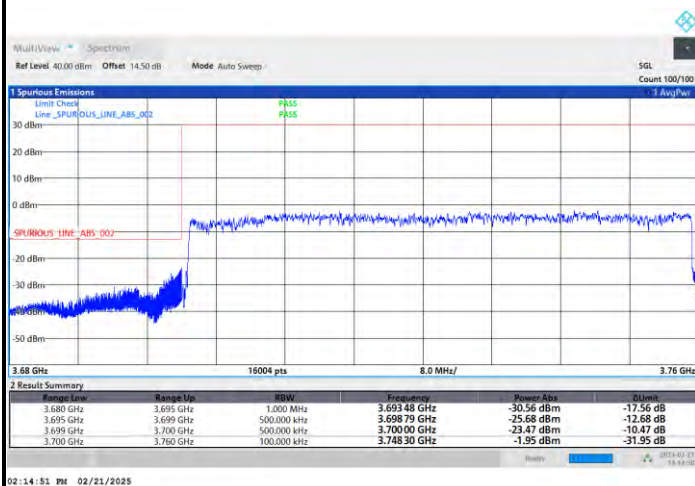


Highest Band Edge / Full RB

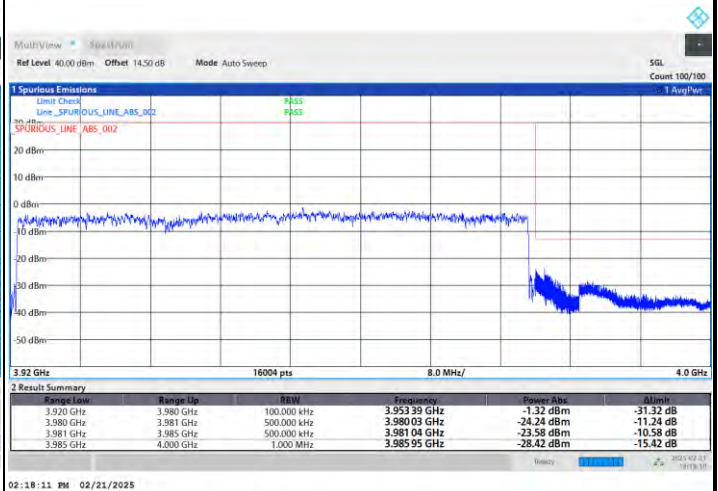


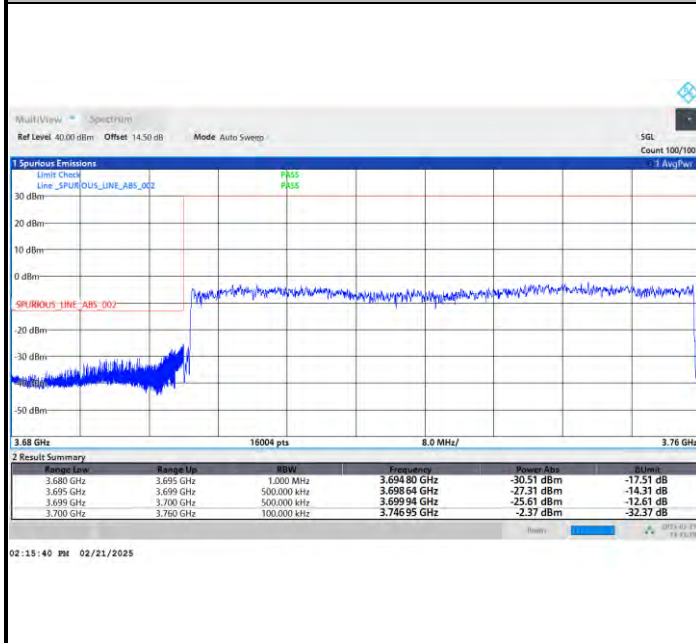
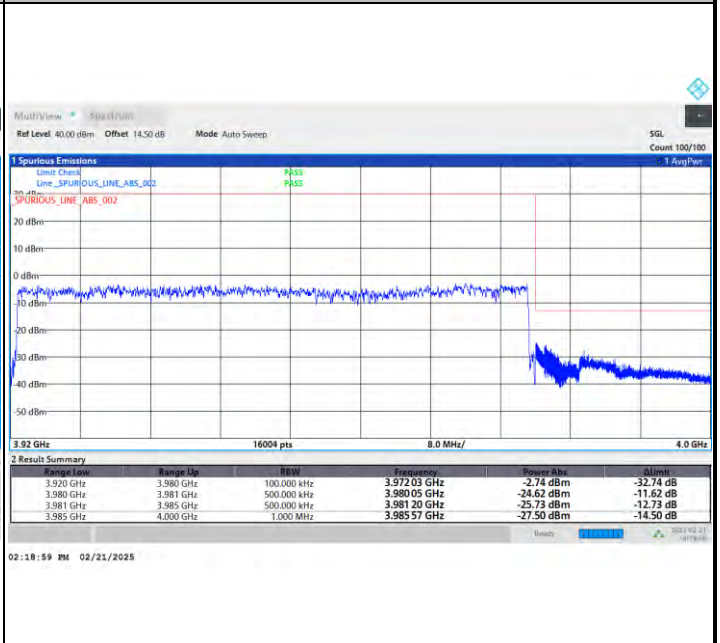
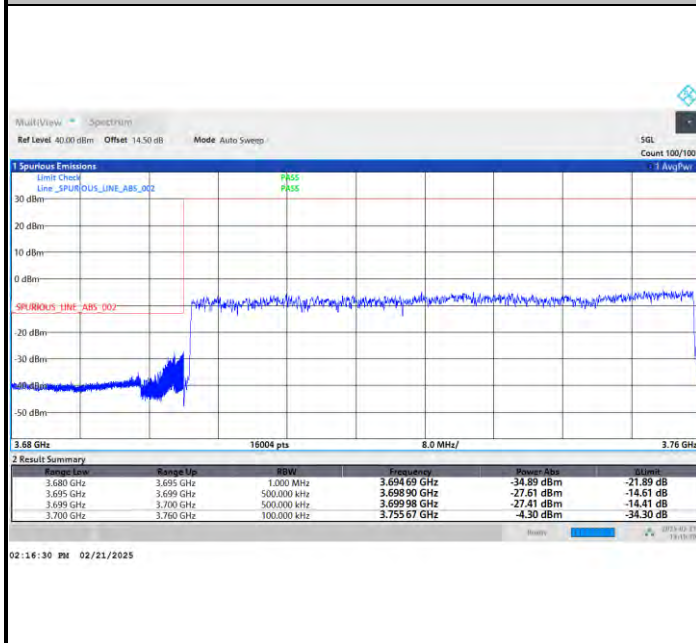
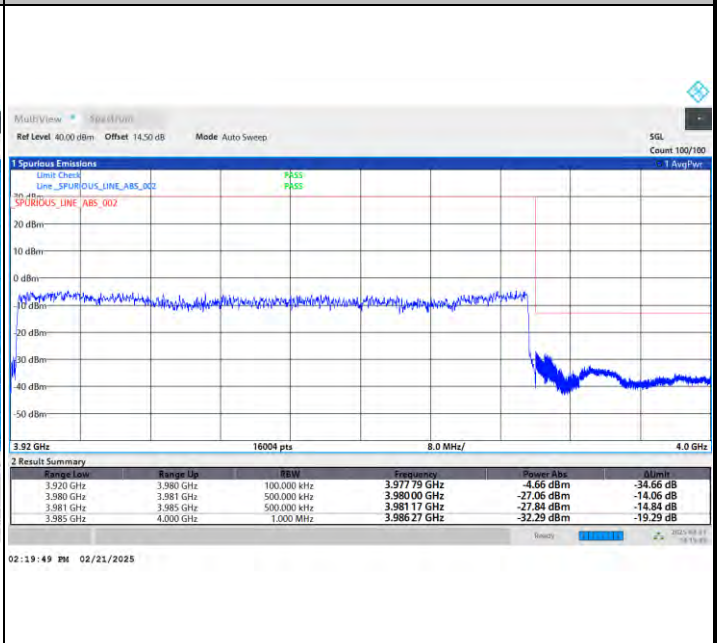
FR1 n77 / 60MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

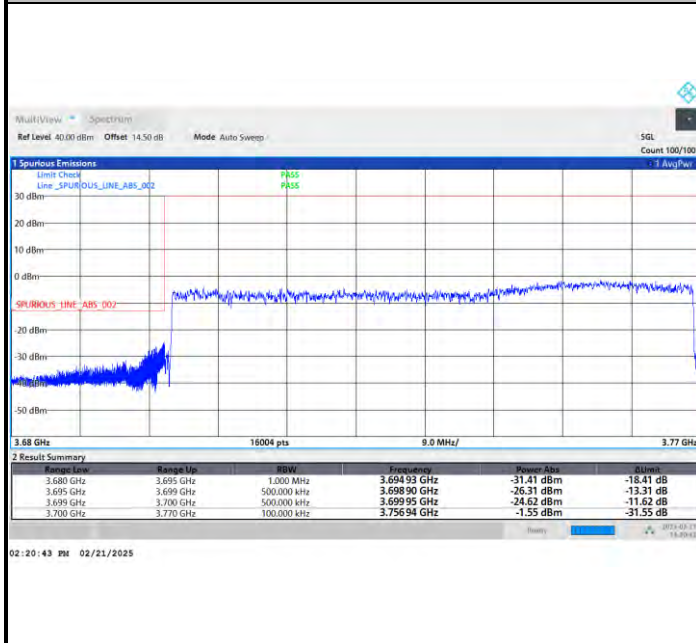


**FR1 n77 / 60MHz / CP OFDM / 64QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n77 / 60MHz / CP OFDM / 256QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

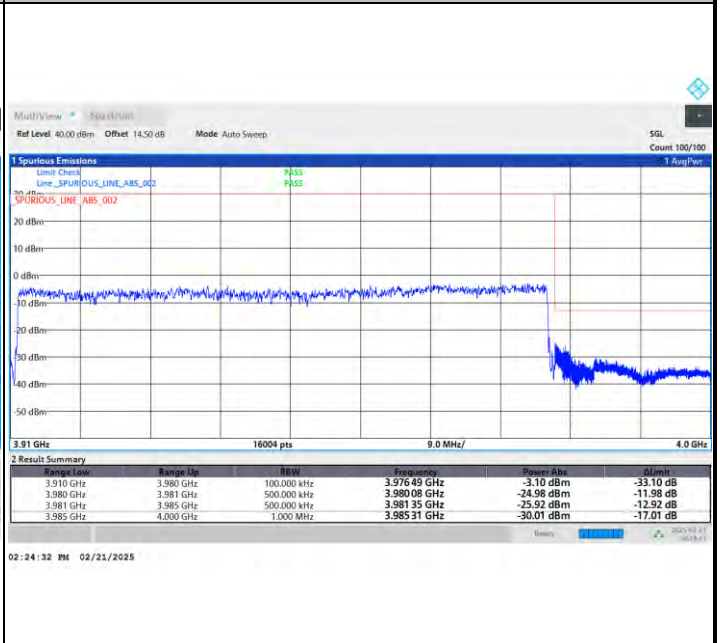


FR1 n77 / 70MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

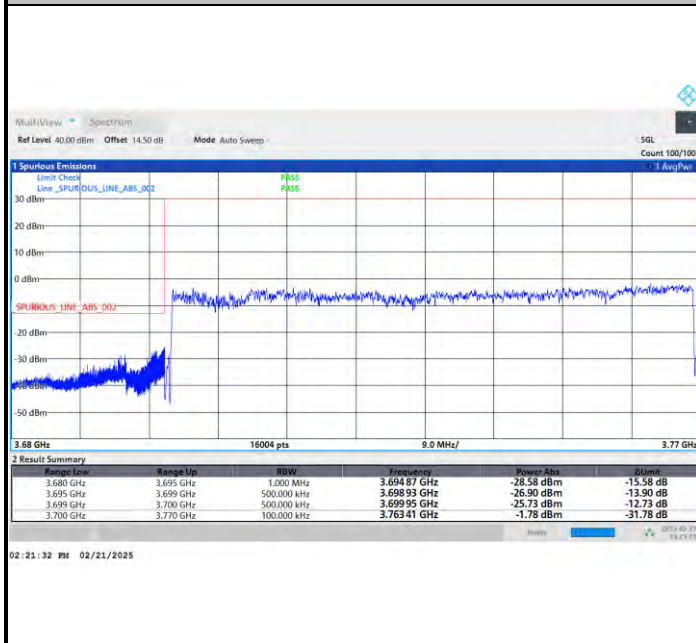


Highest Band Edge / Full RB



FR1 n77 / 70MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB





FR1 n77 / 70MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



02:22:20 02/21/2025

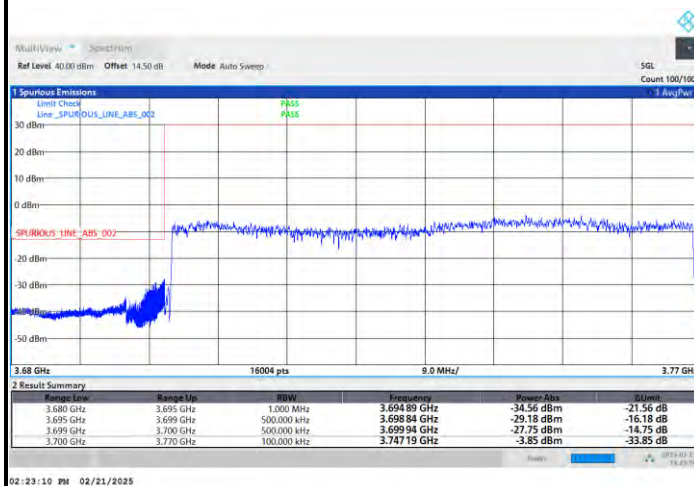
Highest Band Edge / Full RB



02:26:09 02/21/2025

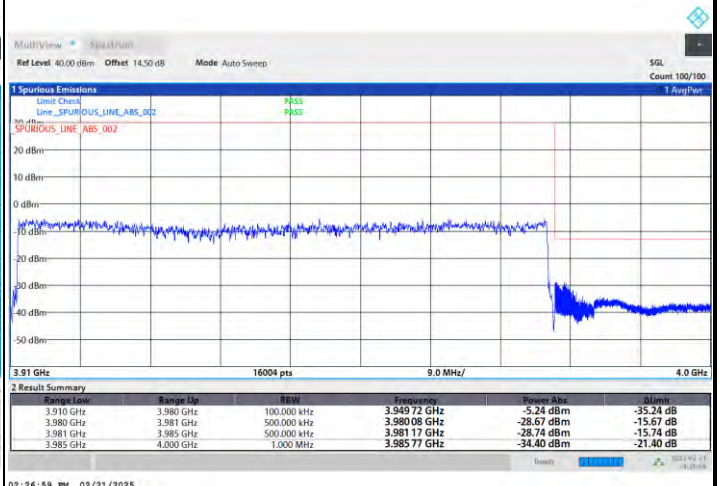
FR1 n77 / 70MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



02:23:10 02/21/2025

Highest Band Edge / Full RB

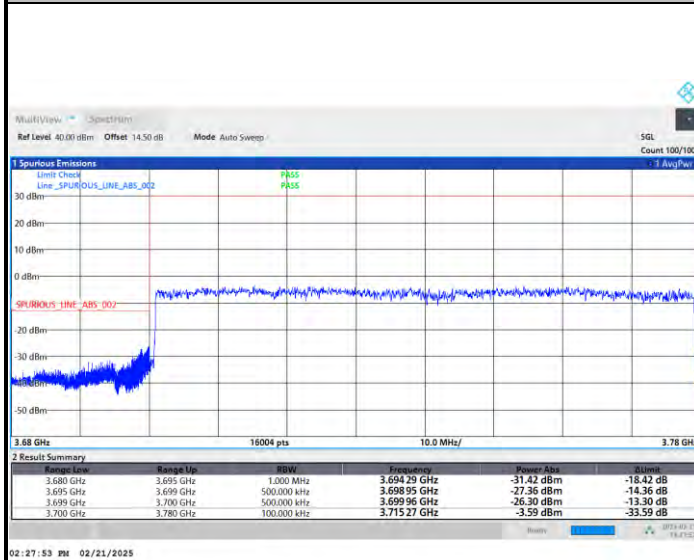


02:26:59 02/21/2025

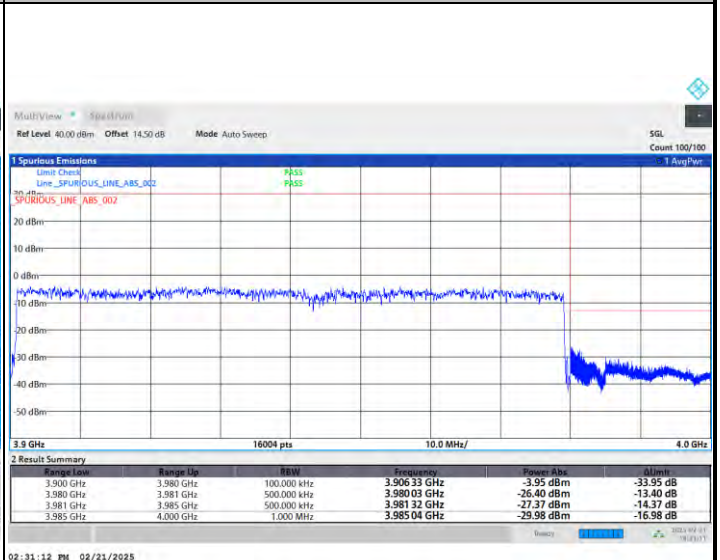


FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

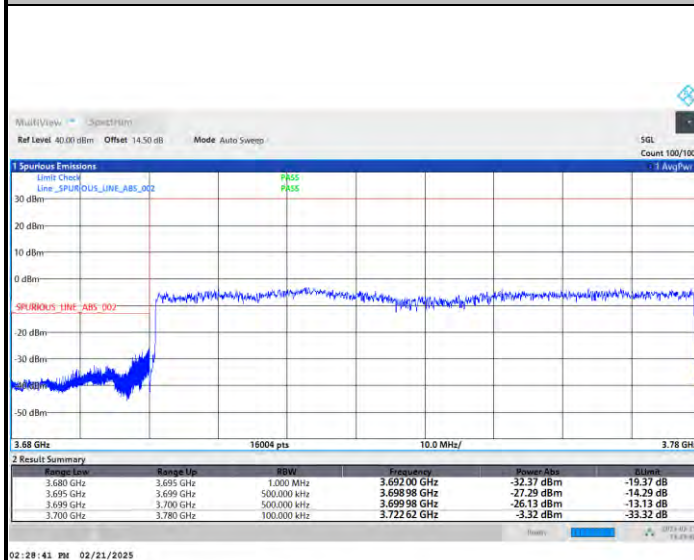


Highest Band Edge / Full RB

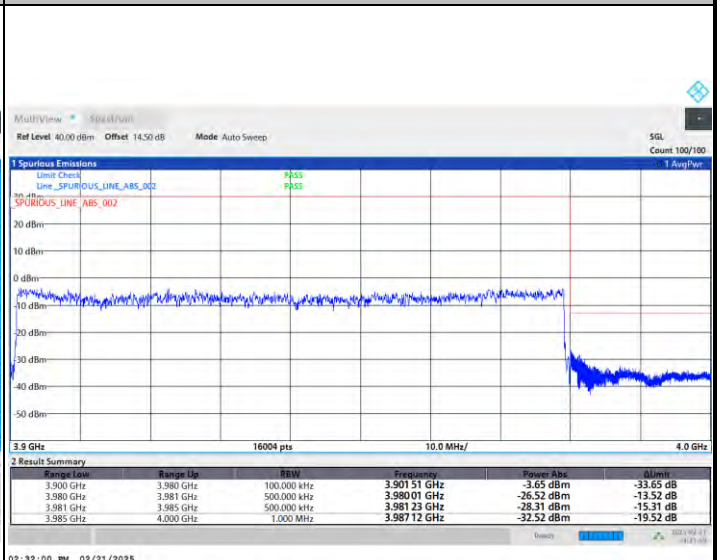


FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB





FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

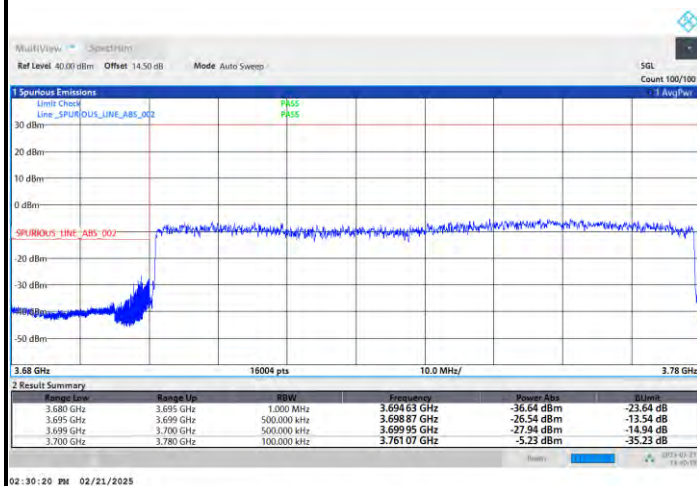


Highest Band Edge / Full RB

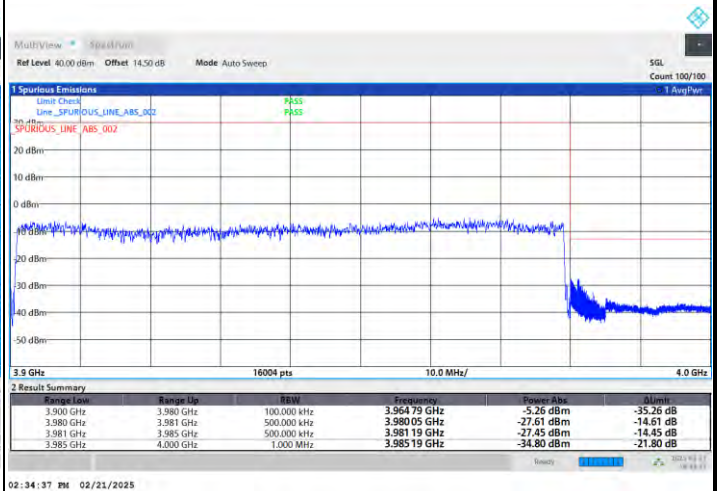


FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



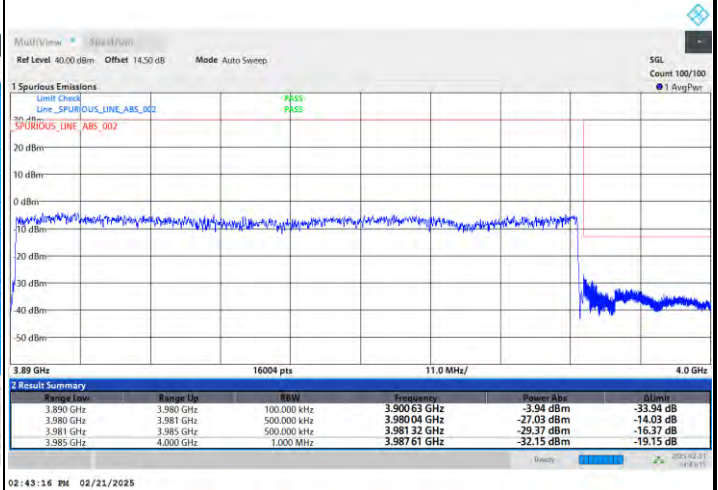


FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

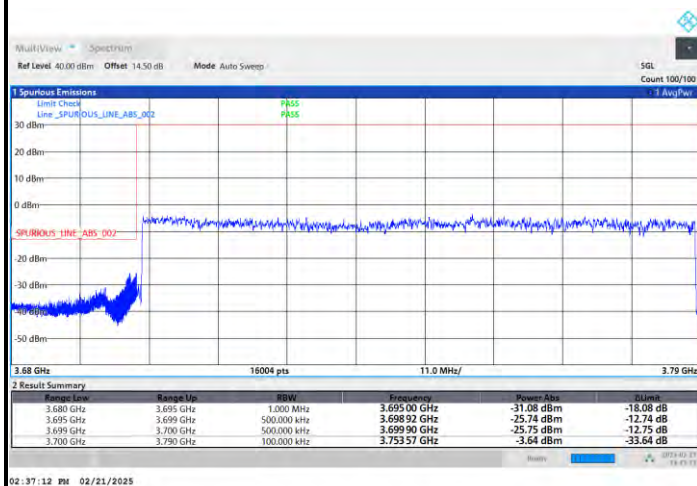


Highest Band Edge / Full RB

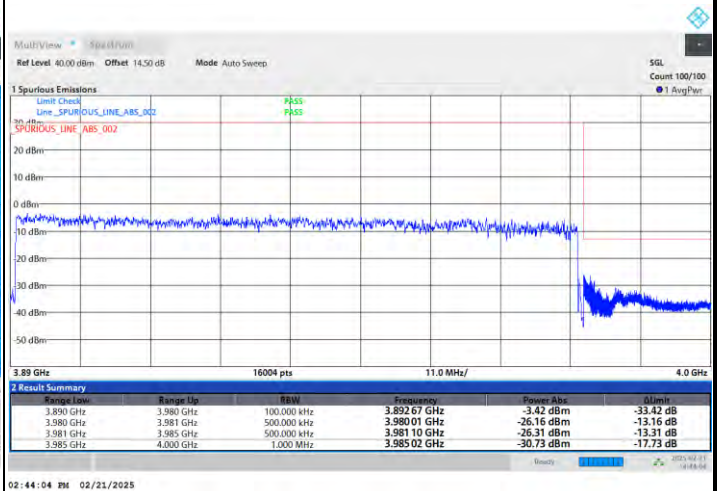


FR1 n77 / 90MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



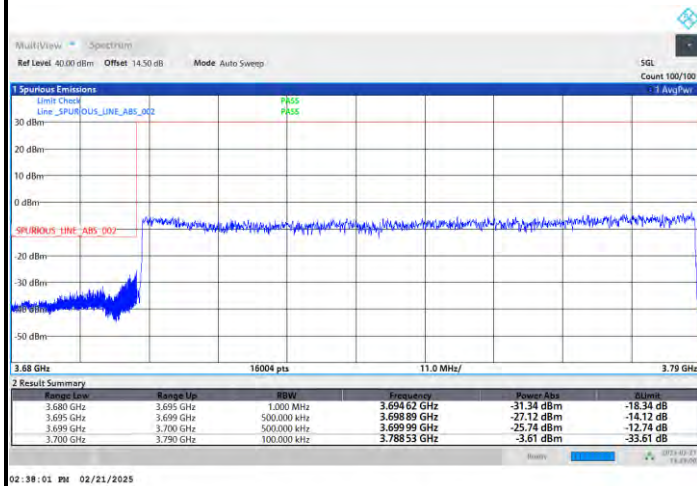
Highest Band Edge / Full RB





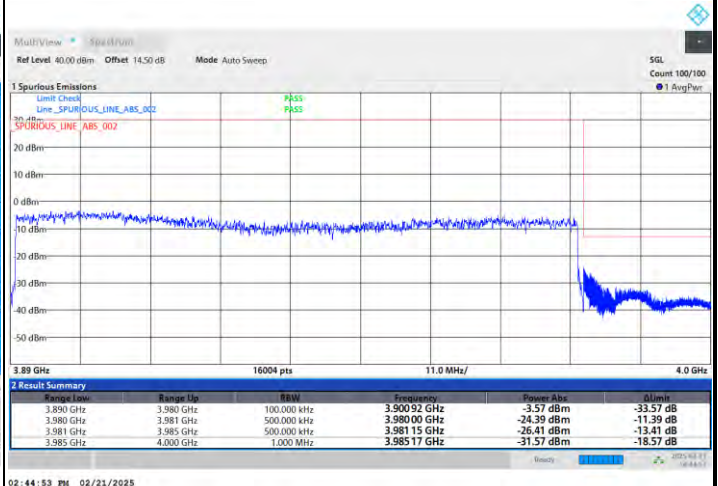
FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



02:38:01 PM 02/21/2025

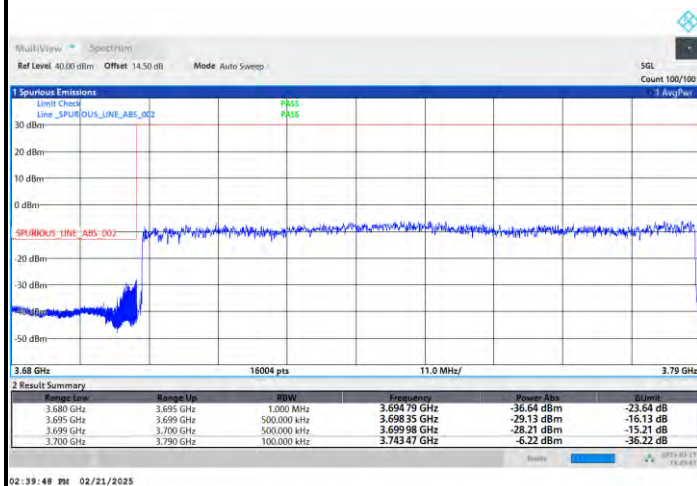
Highest Band Edge / Full RB



02:44:53 PM 02/21/2025

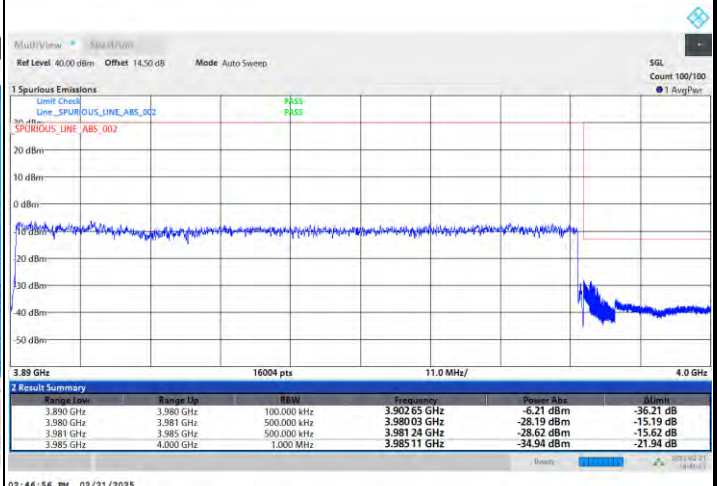
FR1 n77 / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



02:39:48 PM 02/21/2025

Highest Band Edge / Full RB

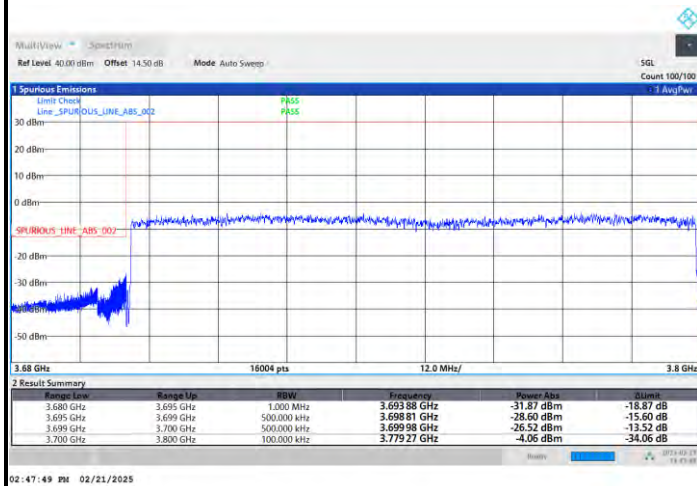


02:46:56 PM 02/21/2025



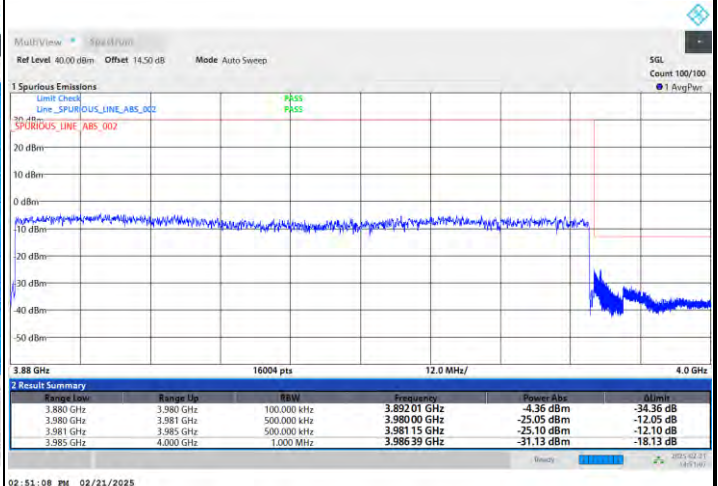
FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



02:47:49 PM 02/21/2025

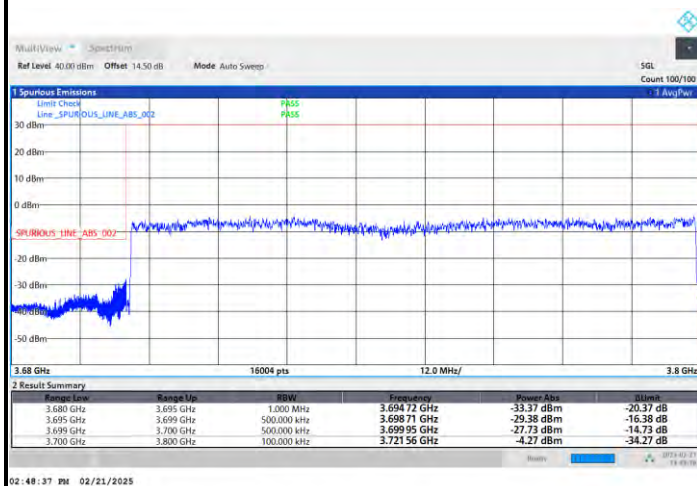
Highest Band Edge / Full RB



02:51:08 PM 02/21/2025

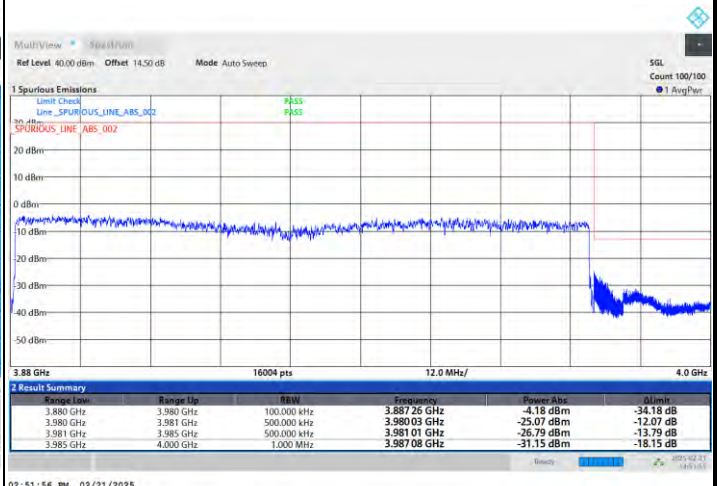
FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



02:48:37 PM 02/21/2025

Highest Band Edge / Full RB



02:51:56 PM 02/21/2025

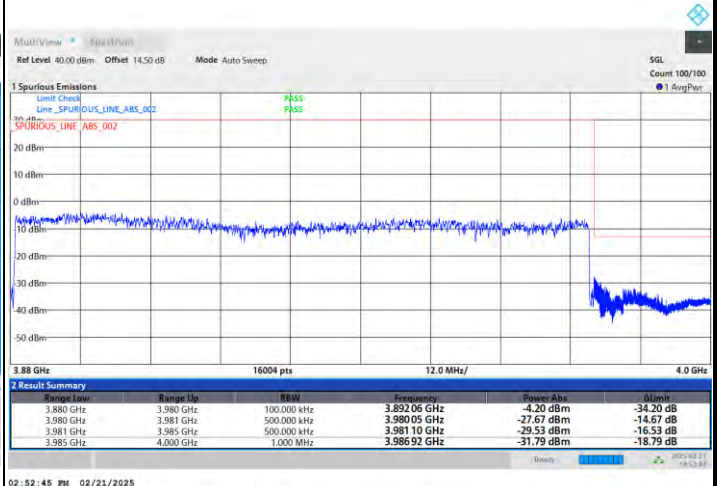


FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

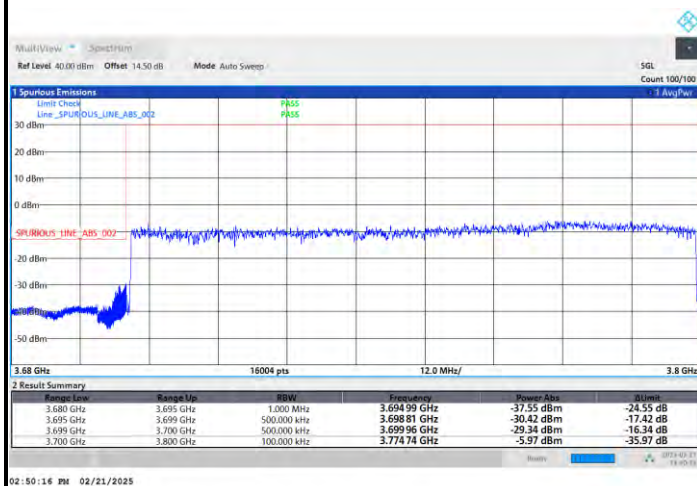


Highest Band Edge / Full RB

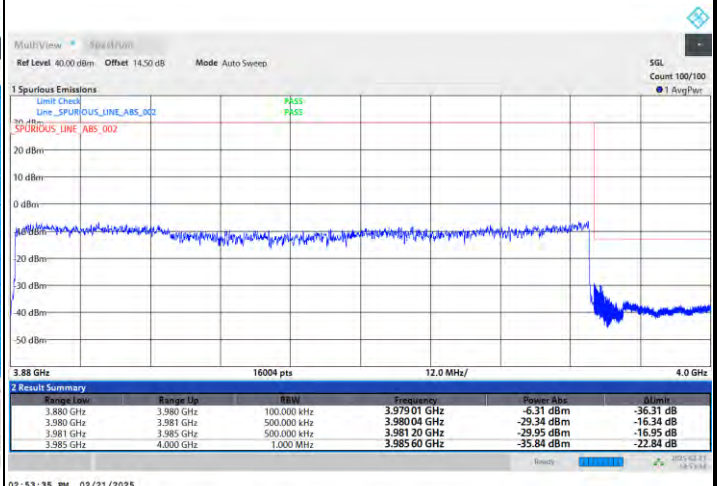


FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

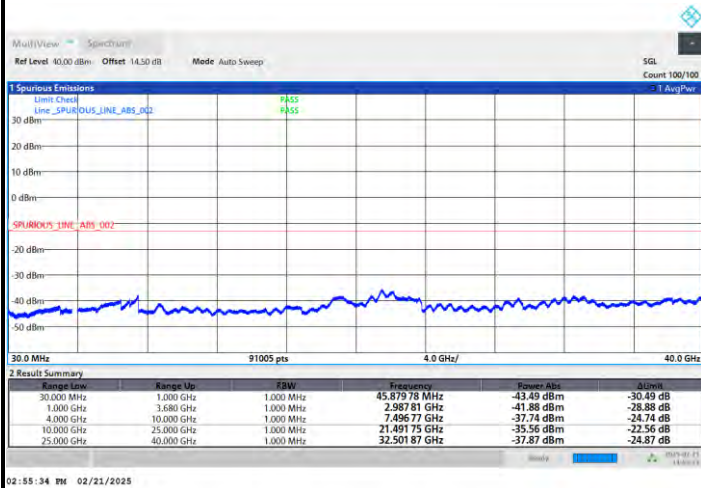




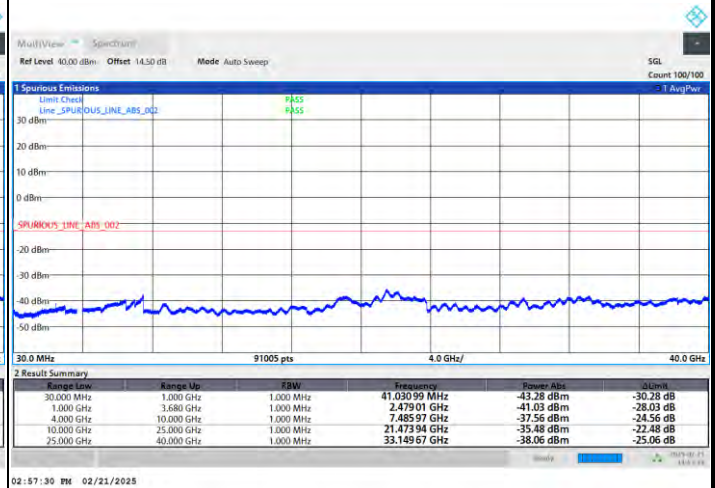
Conducted Spurious Emission

FR1 n77 / 10MHz / CP OFDM / QPSK / 1RB1

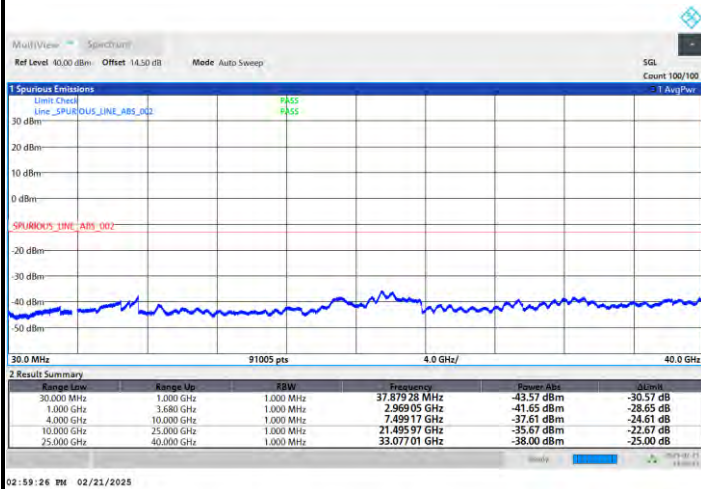
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0012	
20	Minimum Voltage	0.0021	

Note:

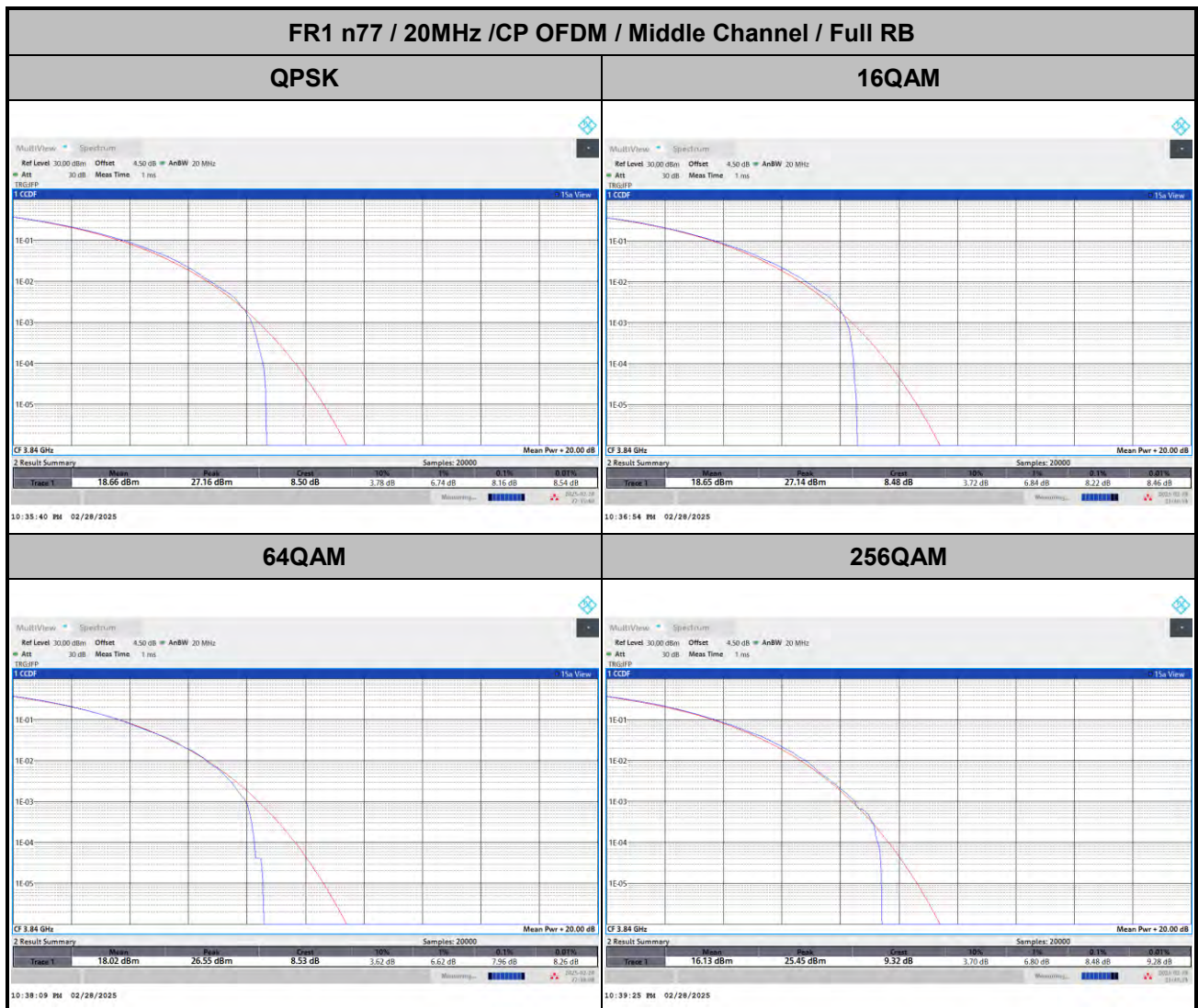
1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <Ant. 7+1> (Ant. 1)

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	8.16	8.22	7.96	8.48	PASS



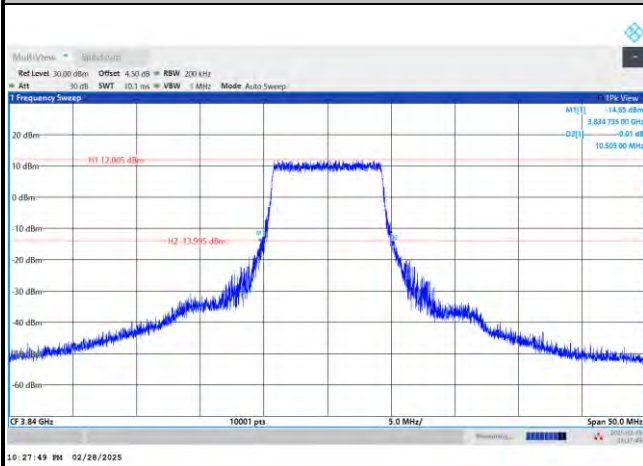
**26dB Bandwidth**

Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.50	10.29	15.61	15.45	20.65	20.47	25.59	25.64
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.49	10.34	15.67	15.40	20.60	20.58	25.72	25.44
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	31.16	30.96	42.70	42.93	52.42	52.00	67.00	66.40
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	31.09	30.87	42.70	42.33	52.42	51.72	66.49	66.84
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	76.33	76.73	84.98	84.30	96.78	95.97	106.49	107.24
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	77.23	76.73	85.25	84.18	97.60	96.49	106.74	106.30

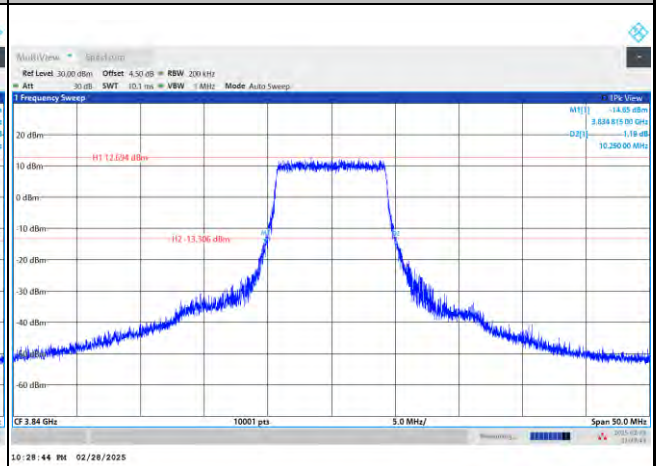


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

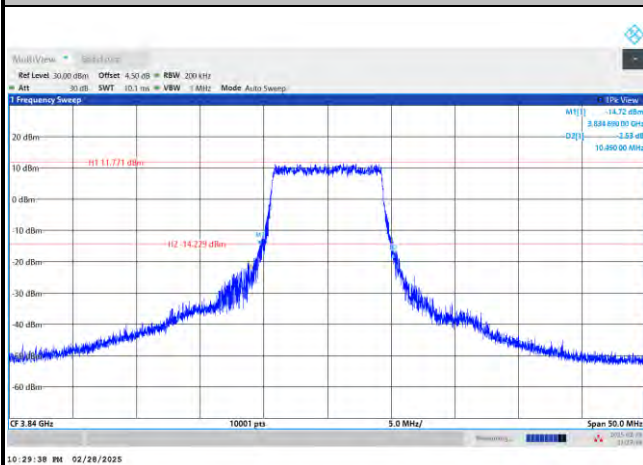
QPSK



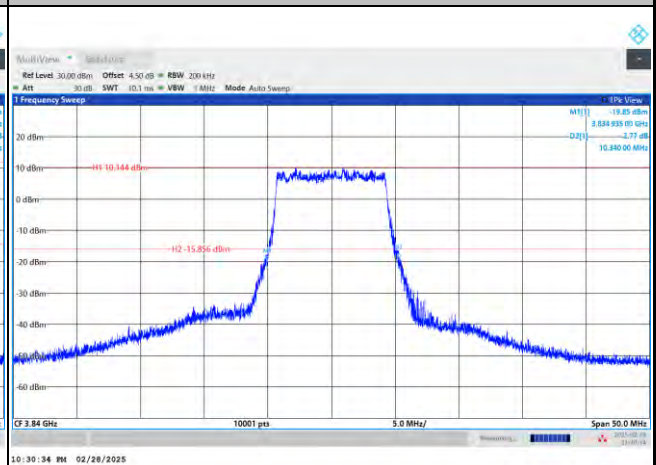
16QAM



64QAM



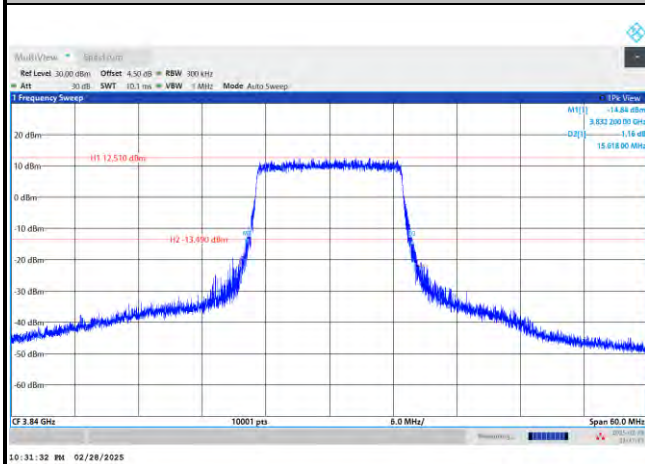
256QAM

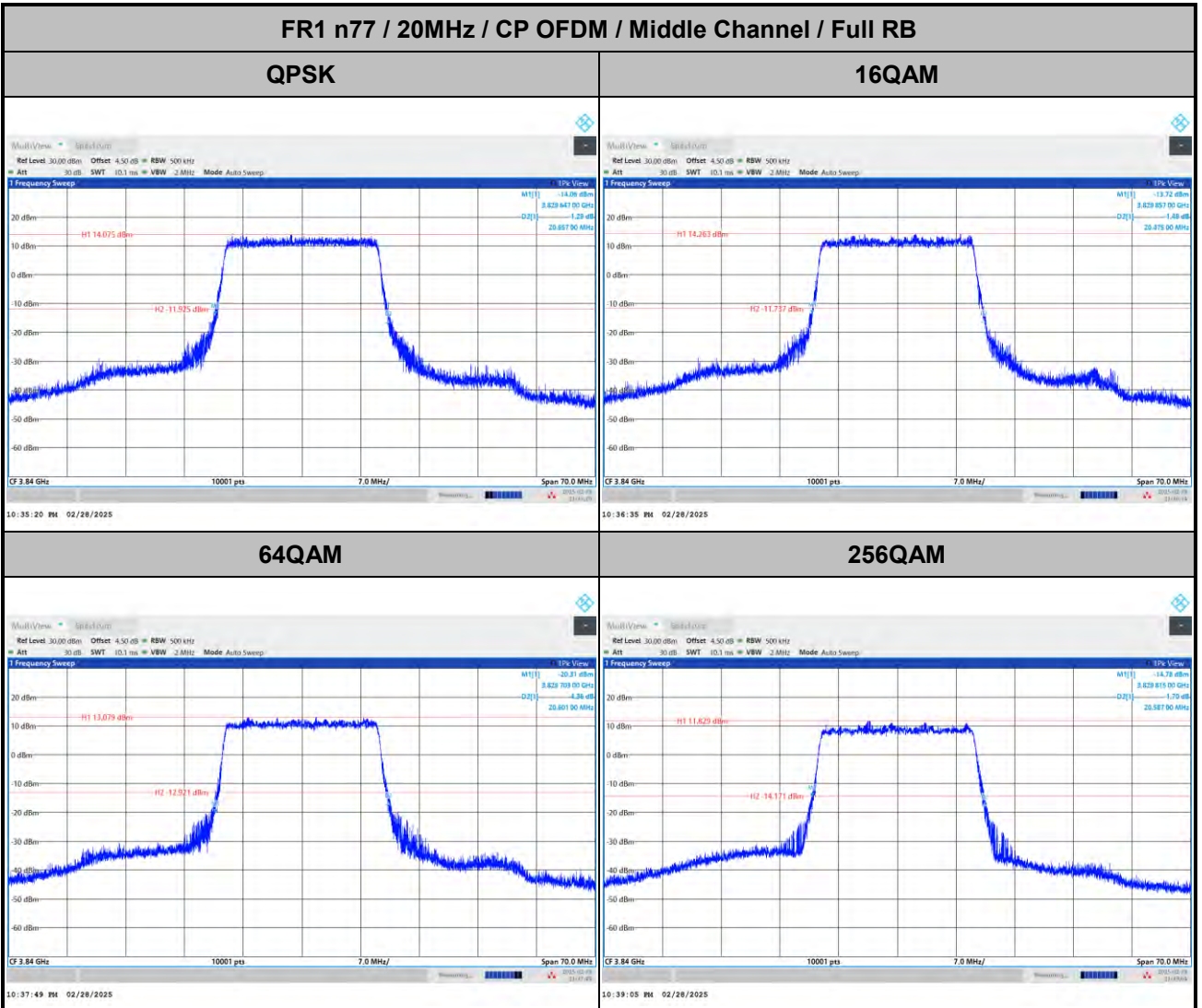


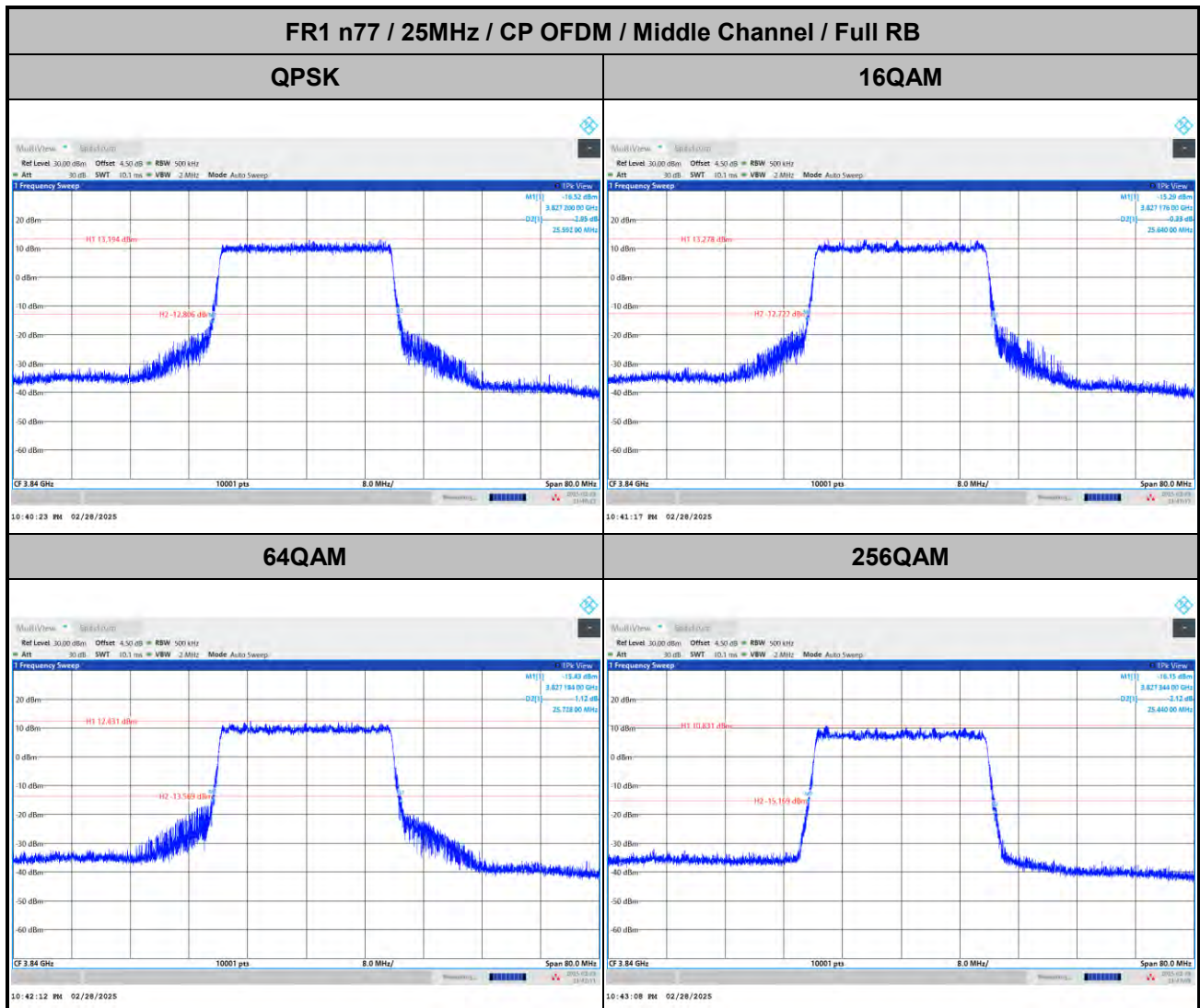


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



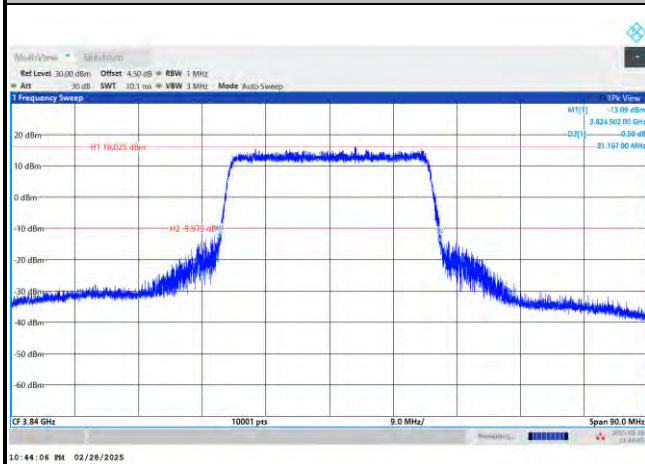




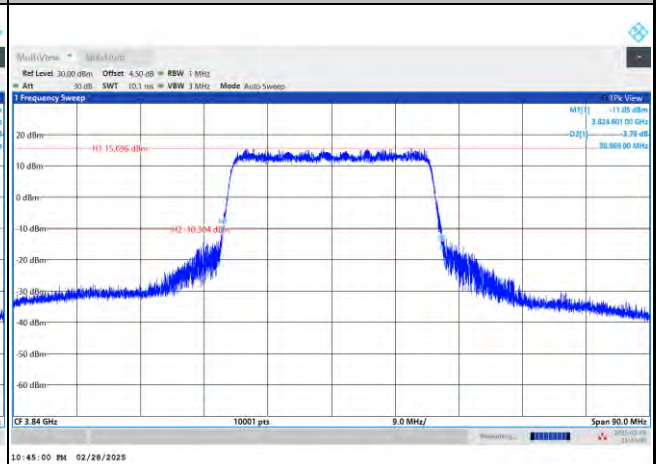


FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

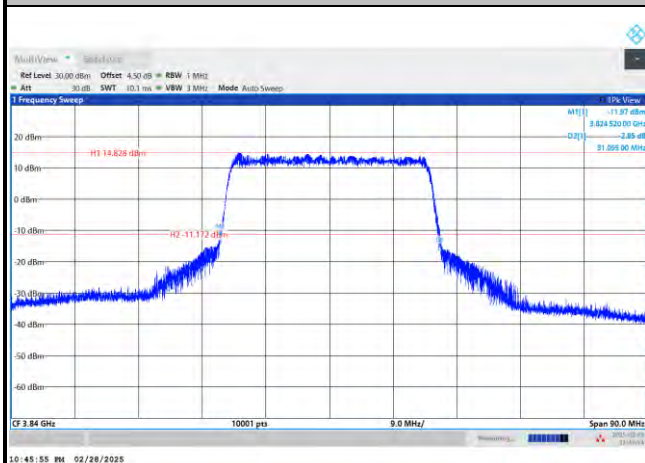
QPSK



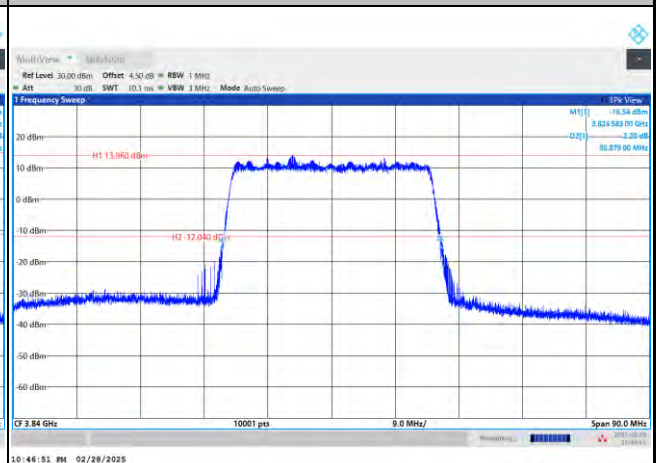
16QAM



64QAM



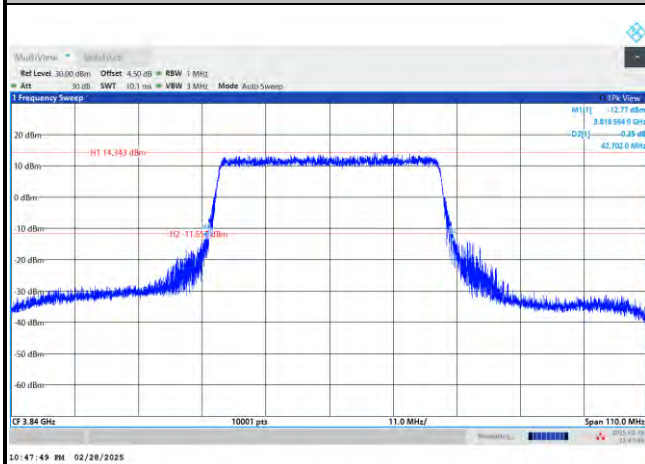
256QAM





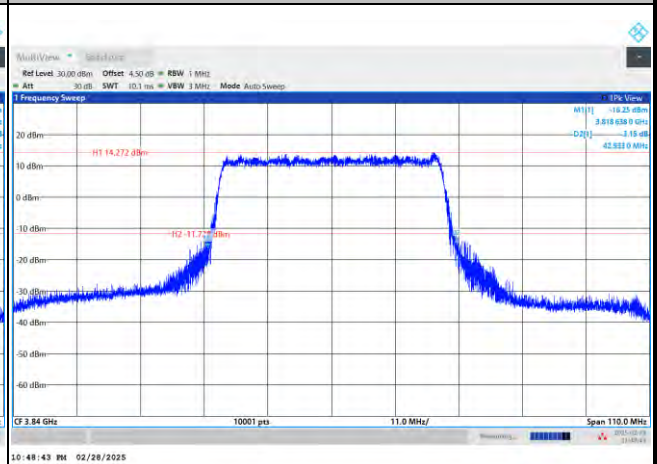
FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



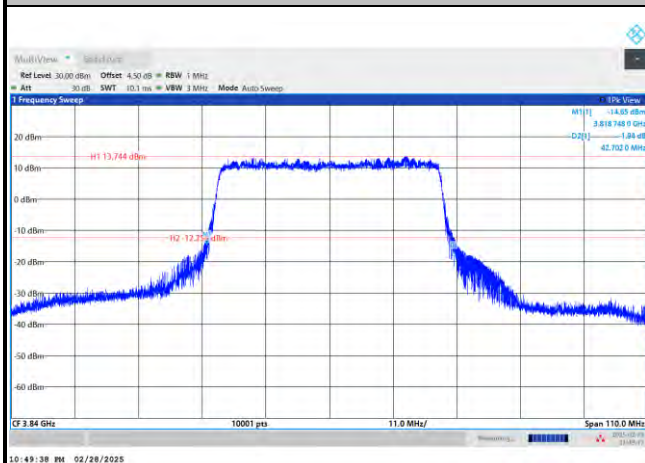
10:47:49 PM 02/28/2025

16QAM



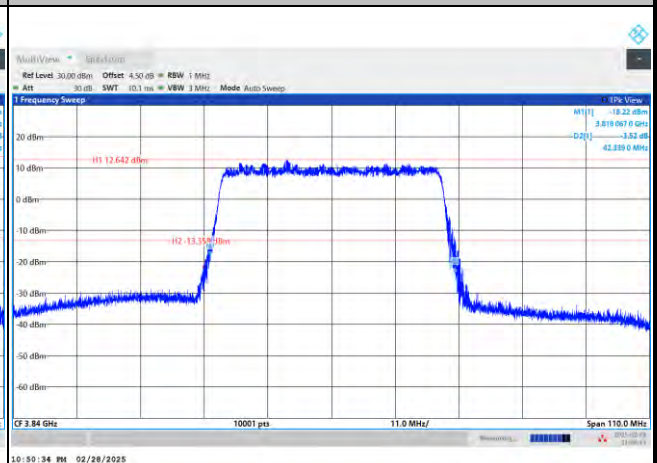
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64QAM

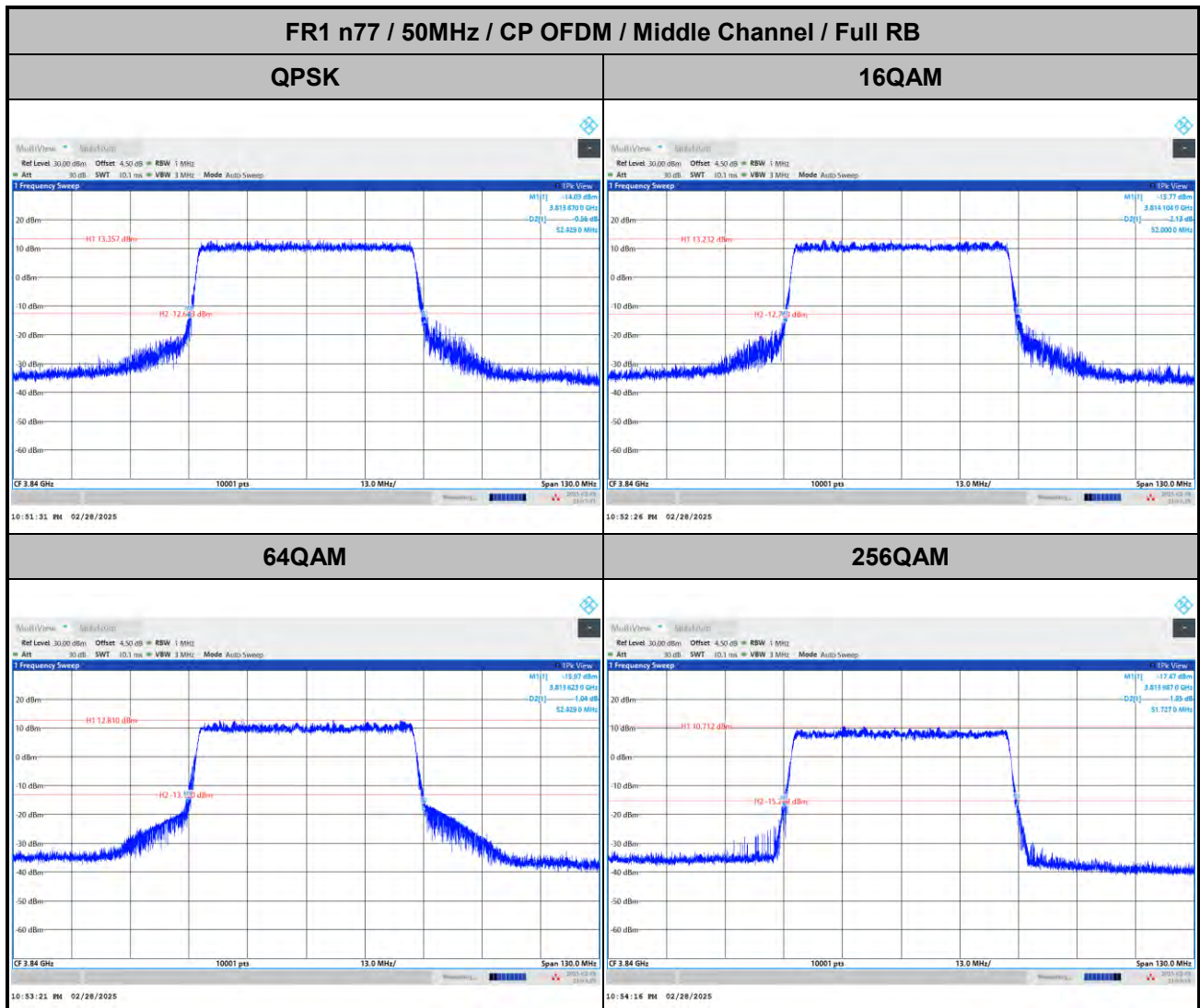


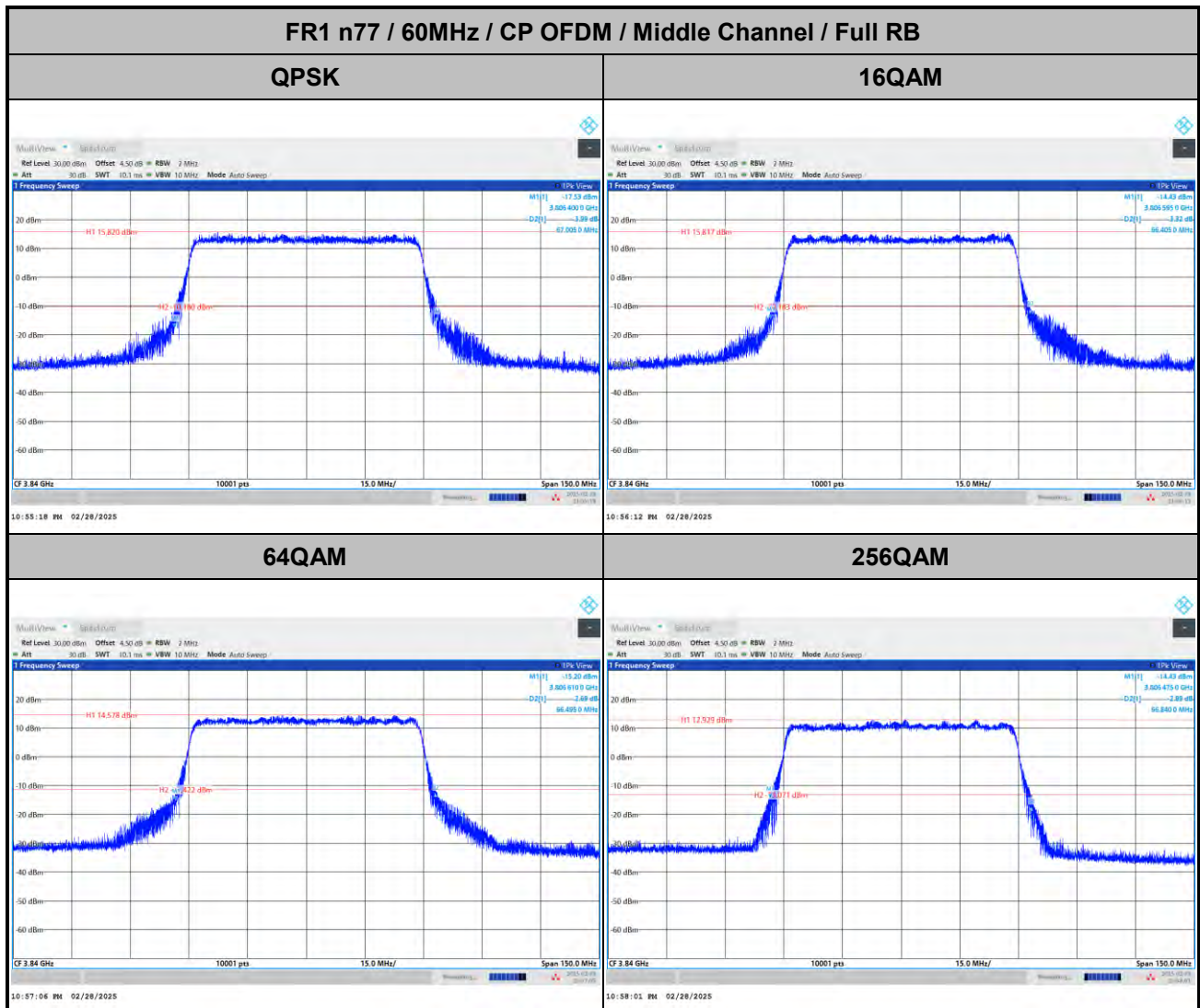
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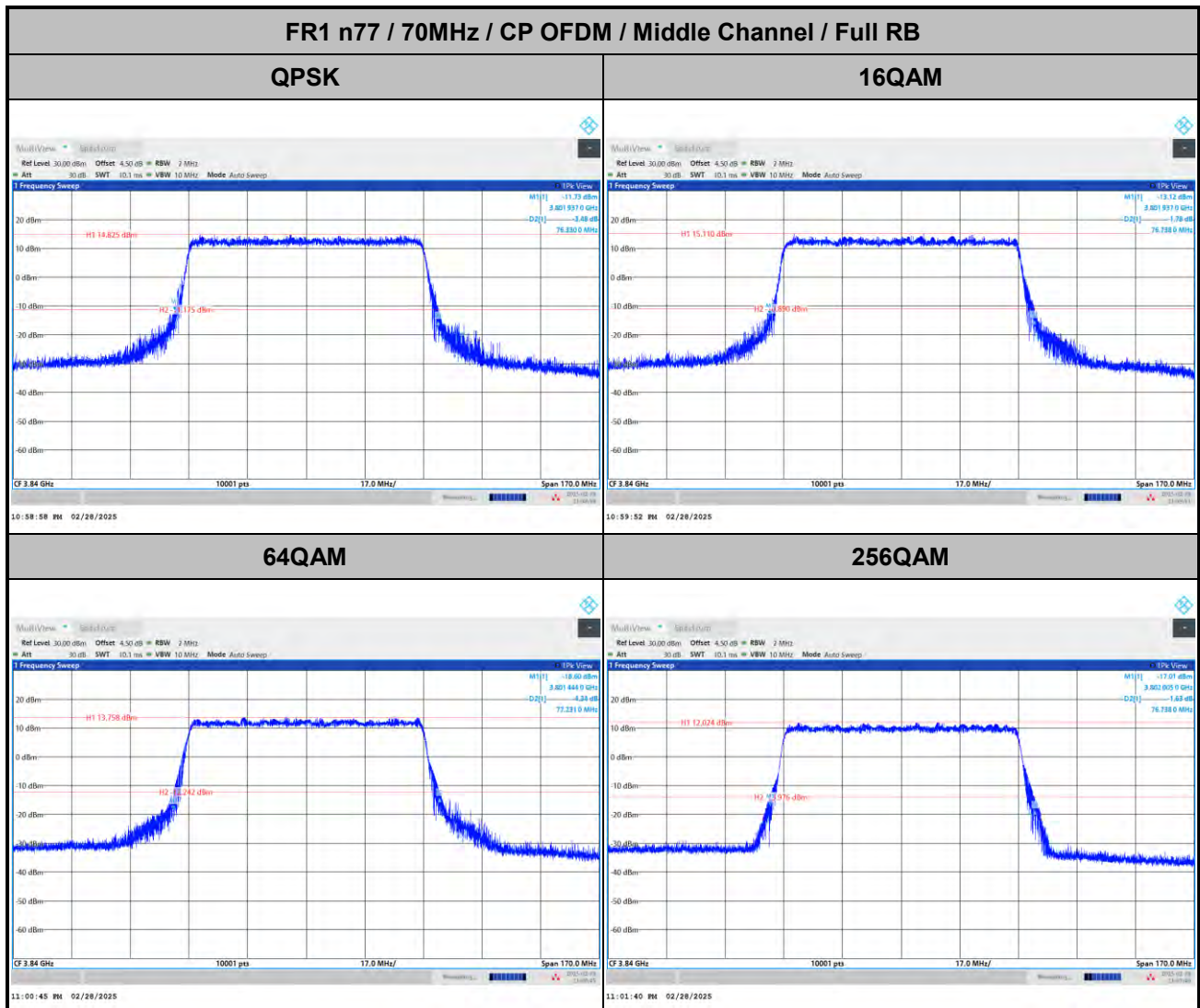
256QAM



10:50:34 PM 02/28/2025



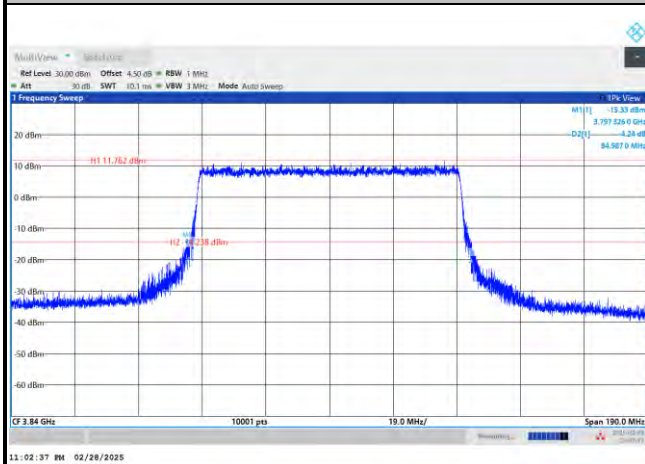




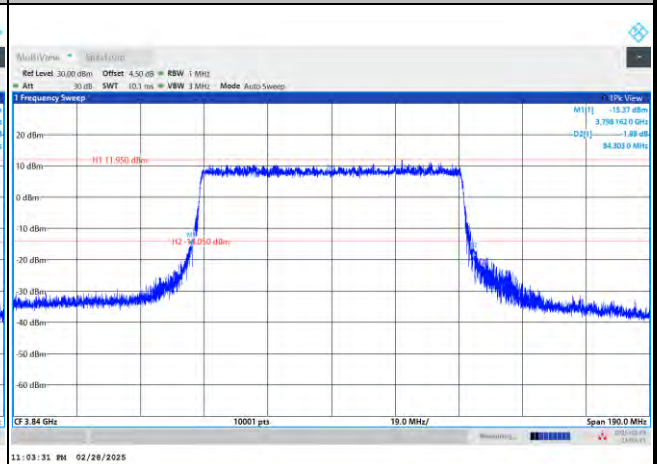


FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

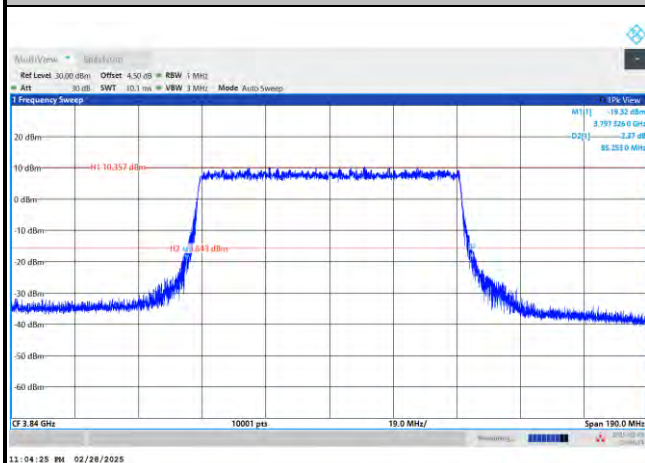
QPSK



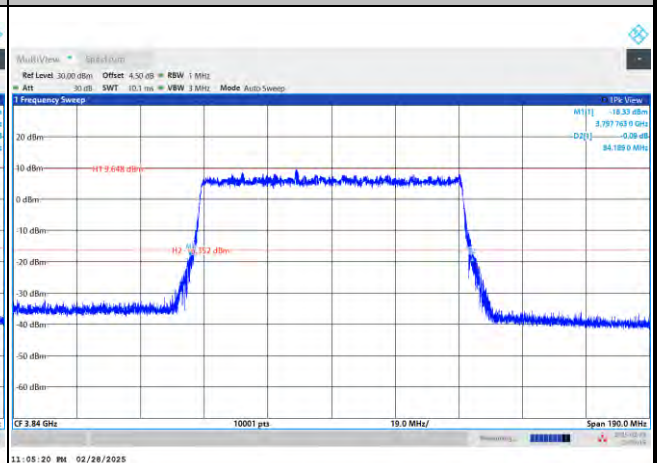
16QAM

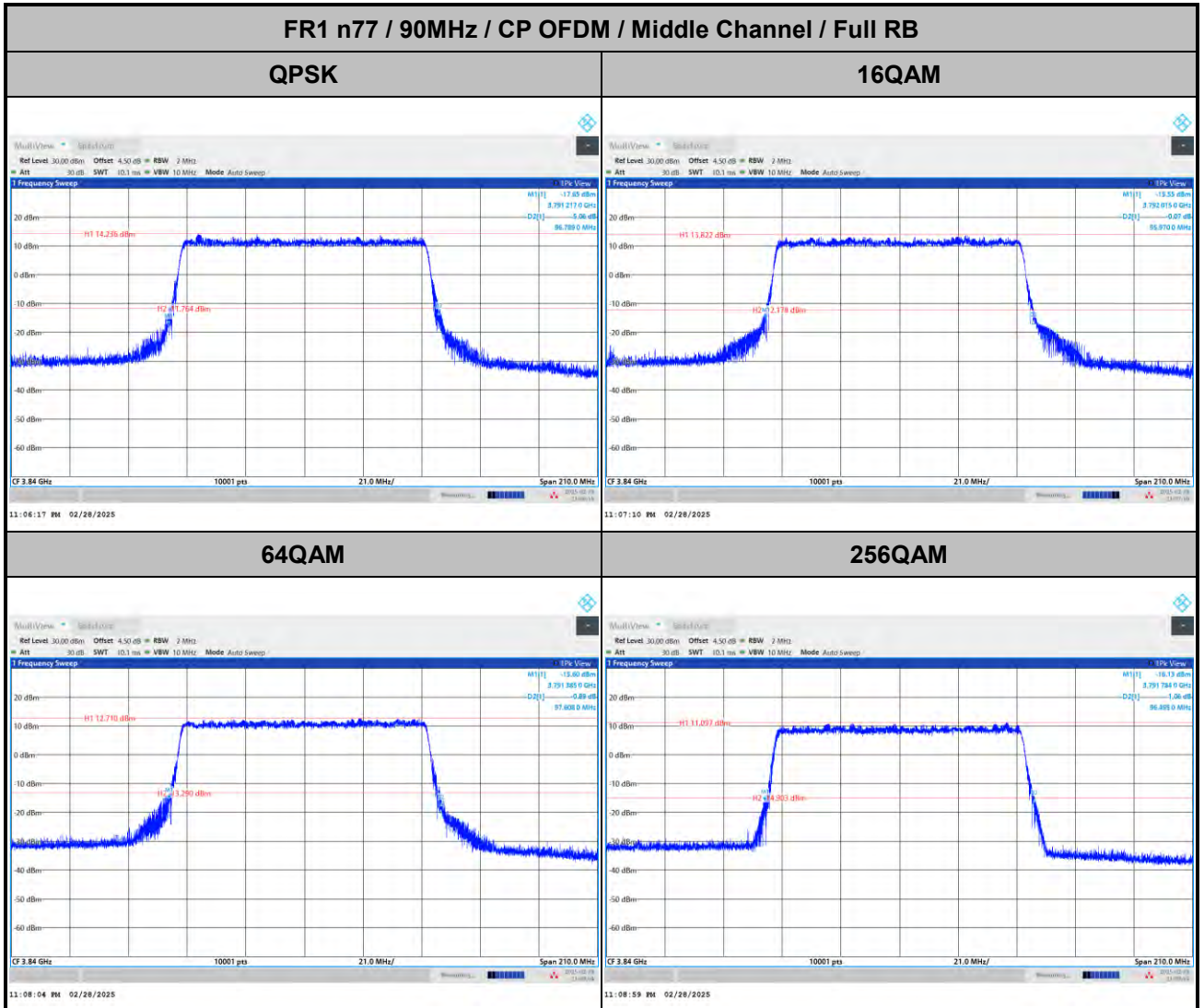


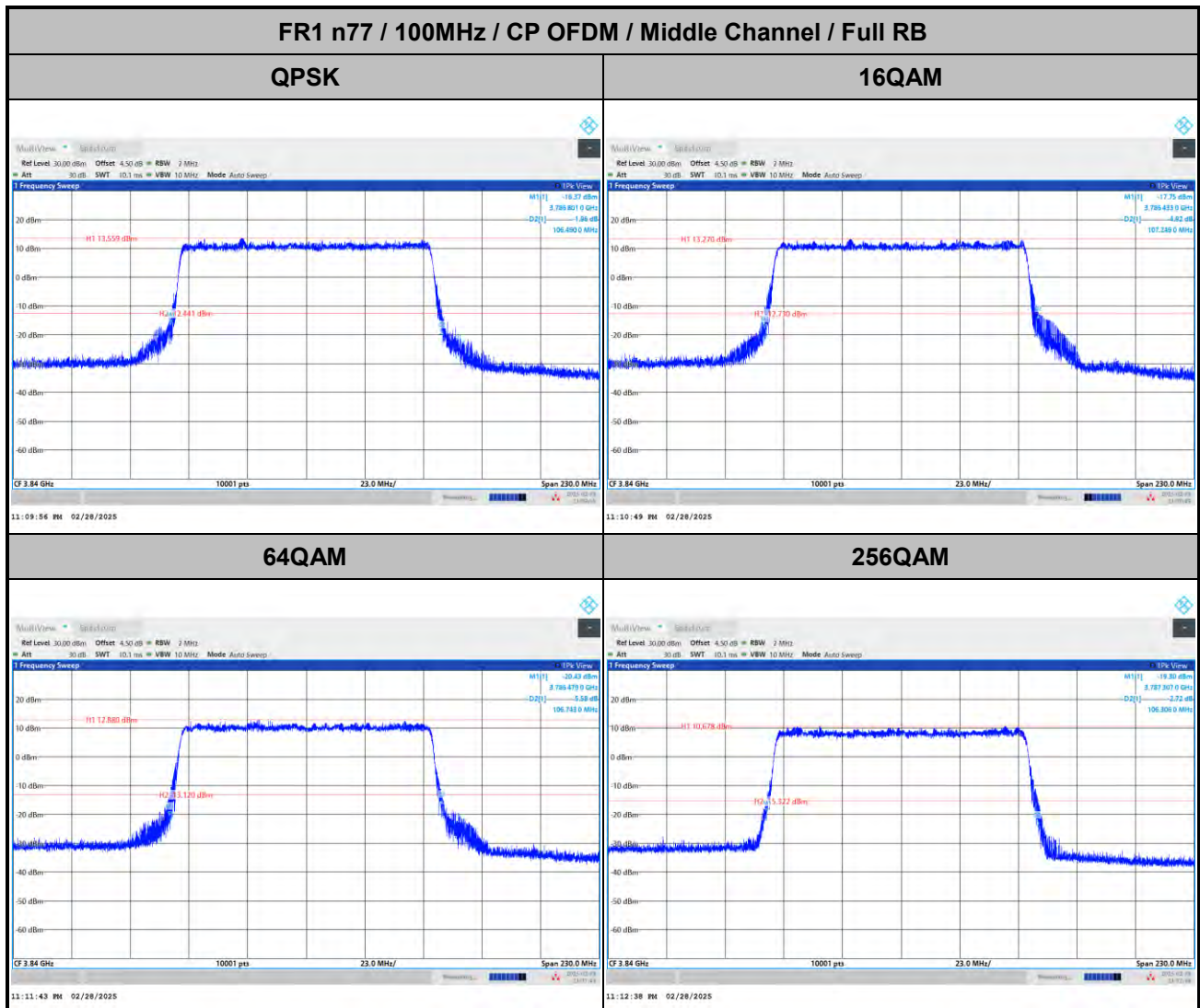
64QAM



256QAM







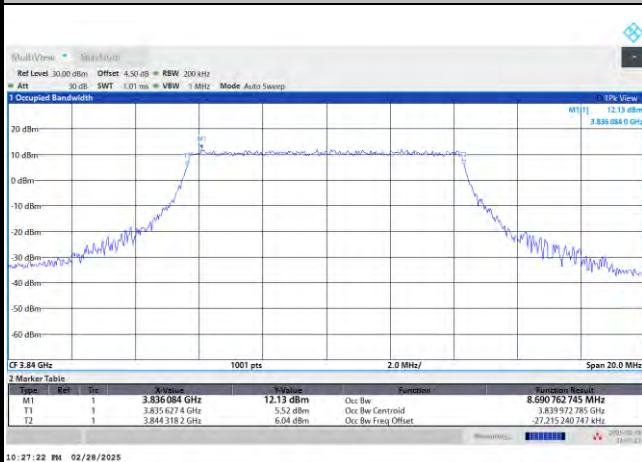
**Occupied Bandwidth**

Mode	FR1 n77 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.69	8.66	13.67	13.66	18.39	18.33	23.32	23.36
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.67	8.68	13.66	13.67	18.35	18.47	23.35	23.27
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	28.24	28.12	38.16	38.11	47.70	47.64	58.60	58.38
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.22	28.17	38.10	37.98	47.68	47.60	58.55	58.68
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	68.28	68.42	77.95	77.93	87.87	88.01	97.87	97.86
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	68.20	67.95	78.14	78.11	87.86	88.13	97.95	97.74

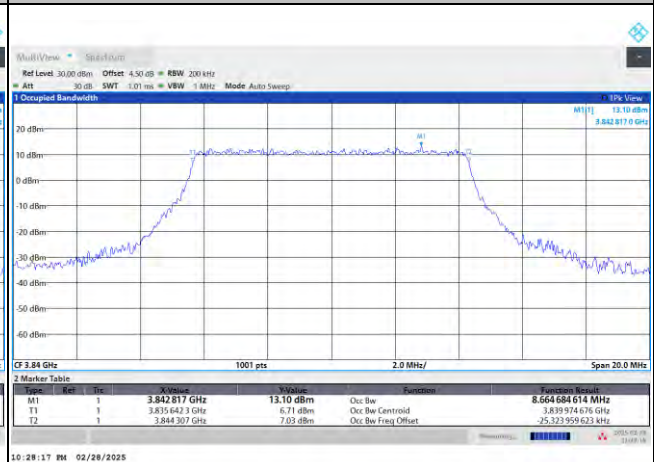


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

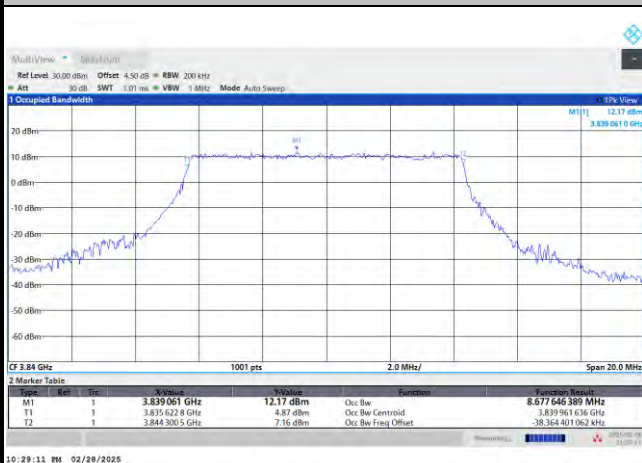
QPSK



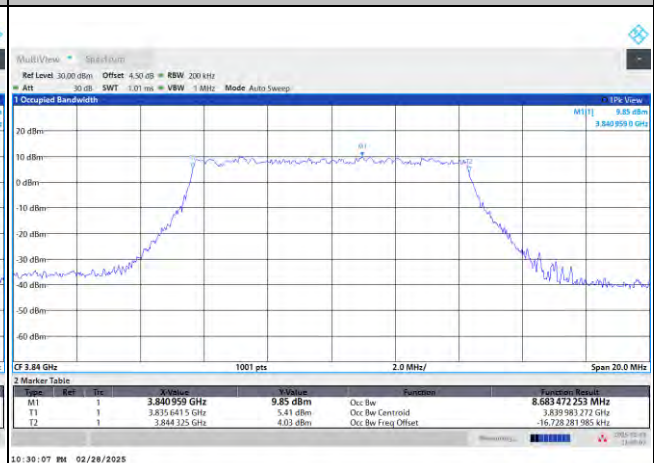
16QAM



64QAM



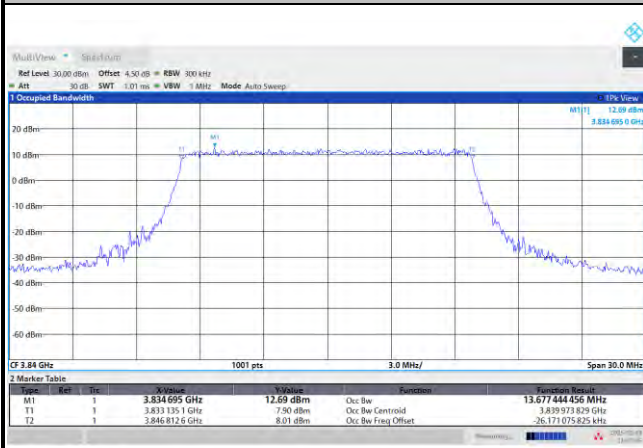
256QAM



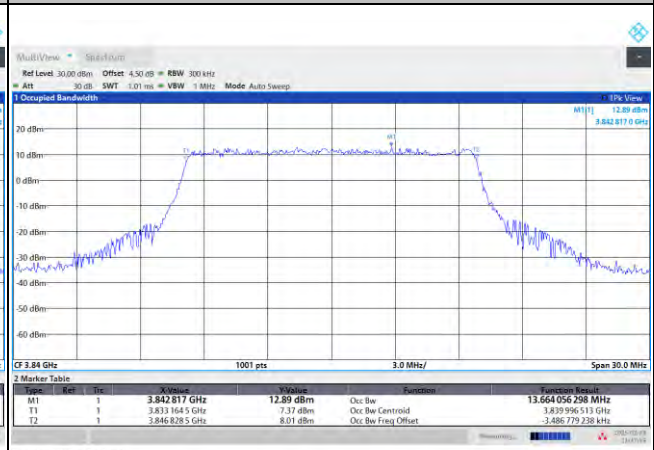


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

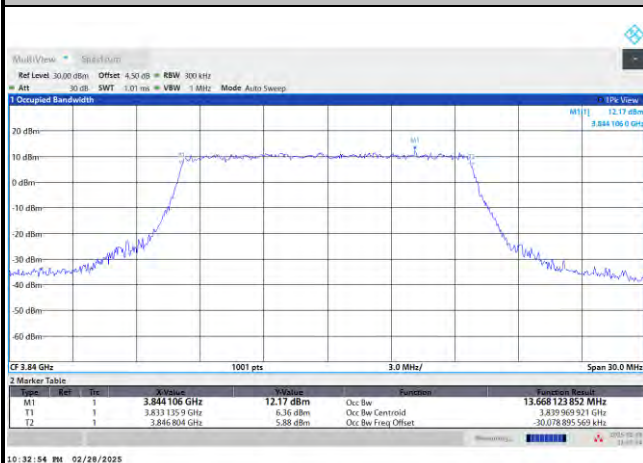
QPSK



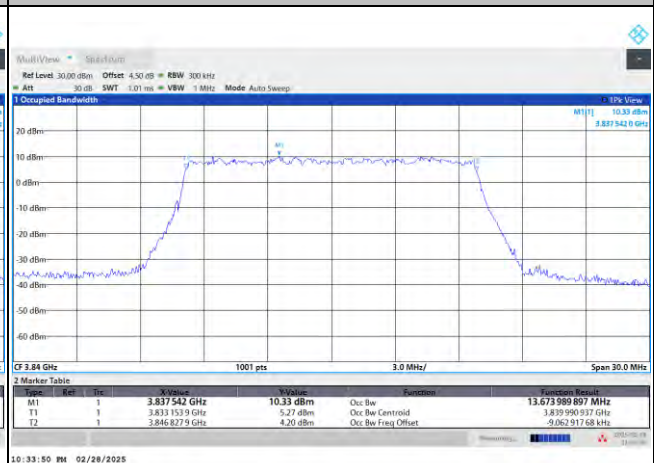
16QAM



64QAM



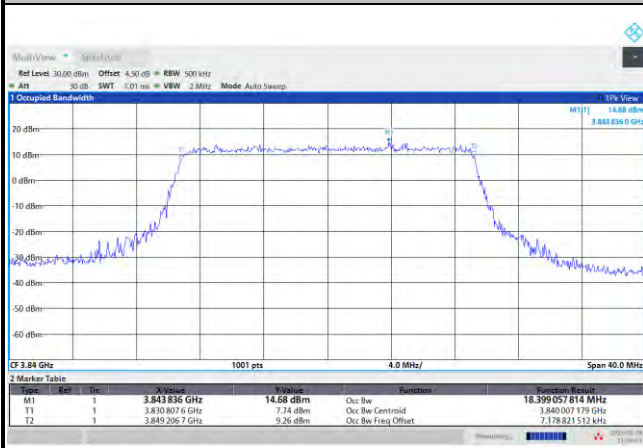
256QAM





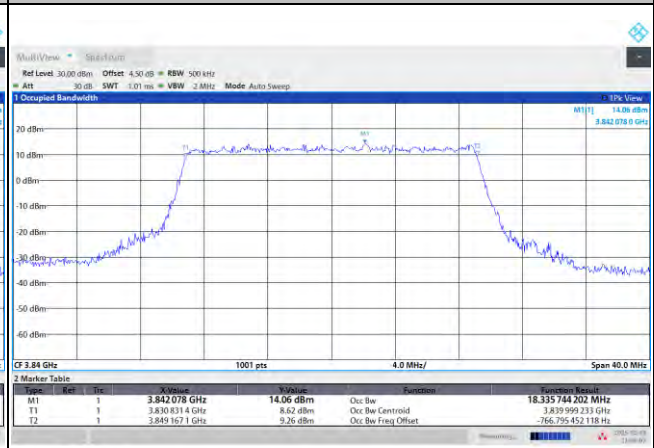
FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



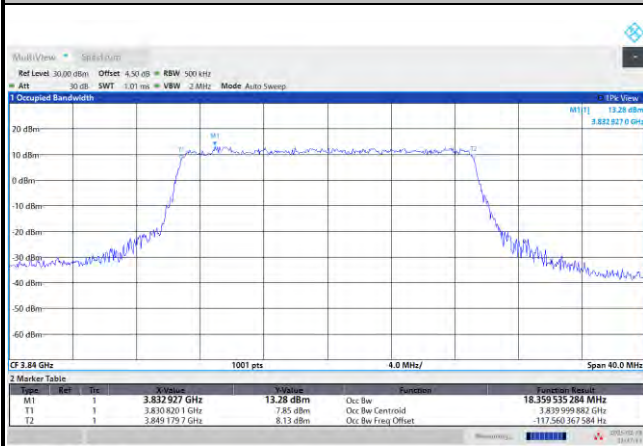
10:34:53 PM 02/28/2025

16QAM



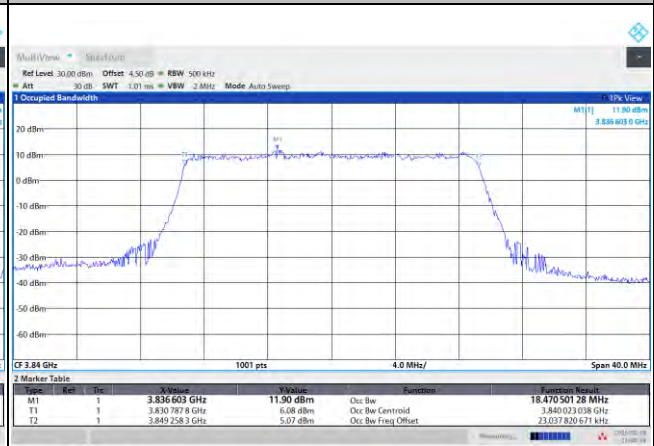
10:36:08 PM 02/28/2025

64QAM



10:37:22 PM 02/28/2025

256QAM

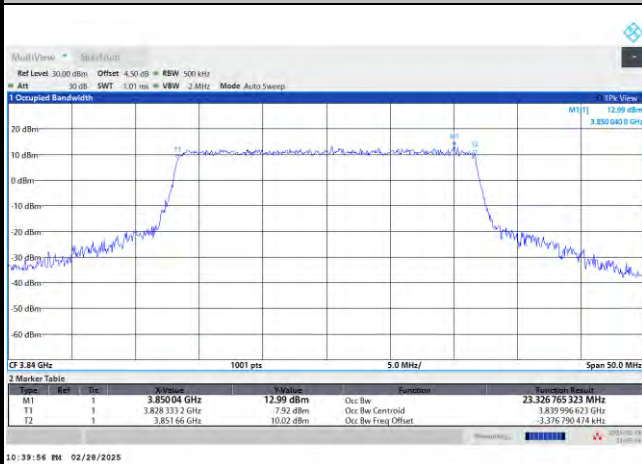


10:38:38 PM 02/28/2025

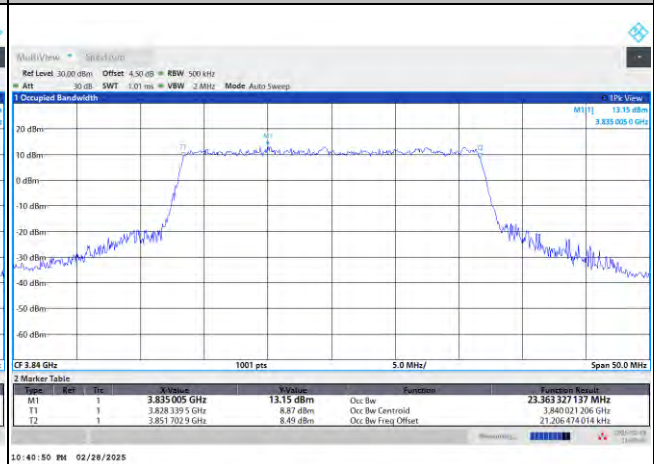


FR1 n77 / 25MHz / CP OFDM / Middle Channel / Full RB

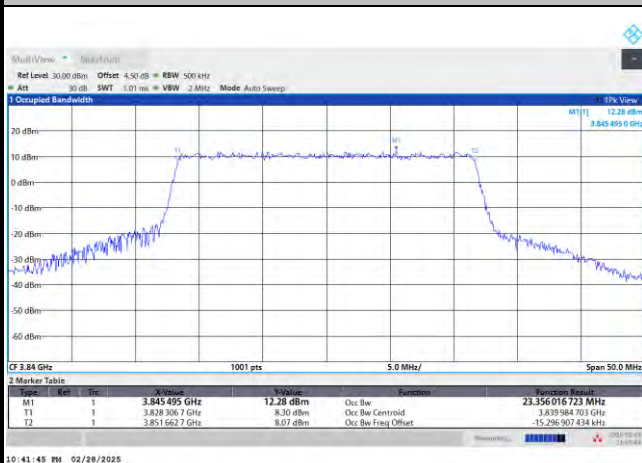
QPSK



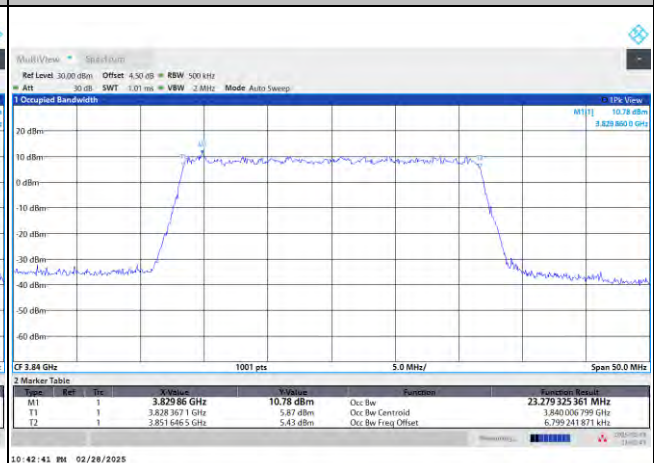
16QAM



64QAM



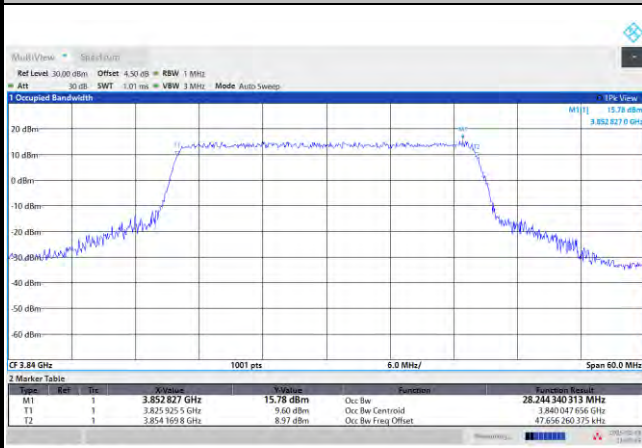
256QAM



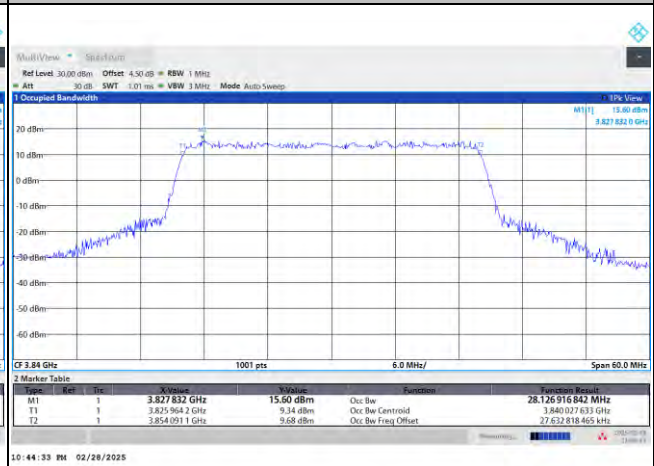


FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

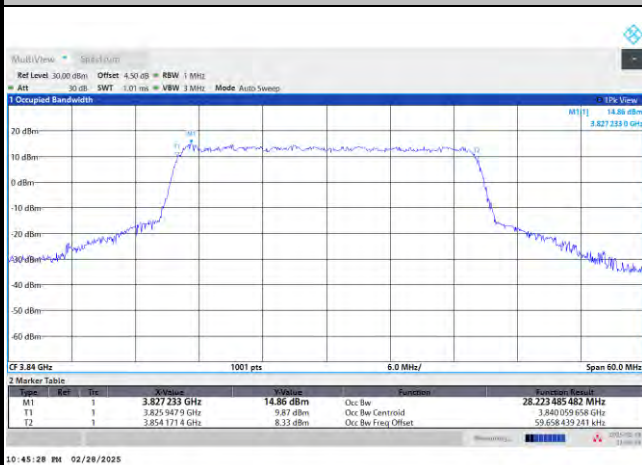
QPSK



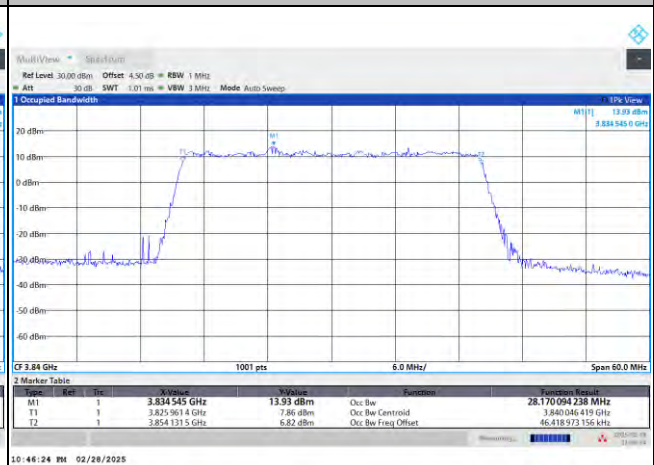
16QAM



64QAM



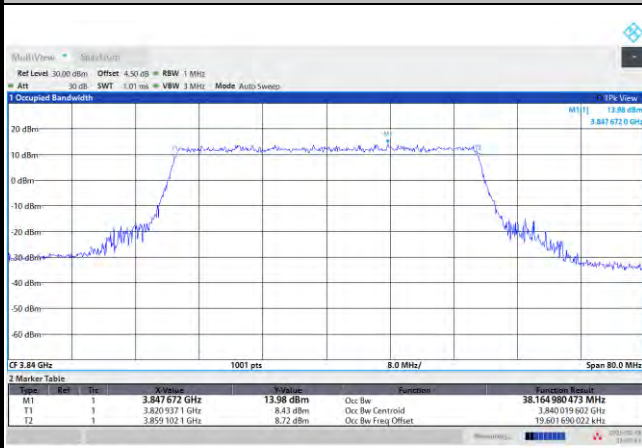
256QAM





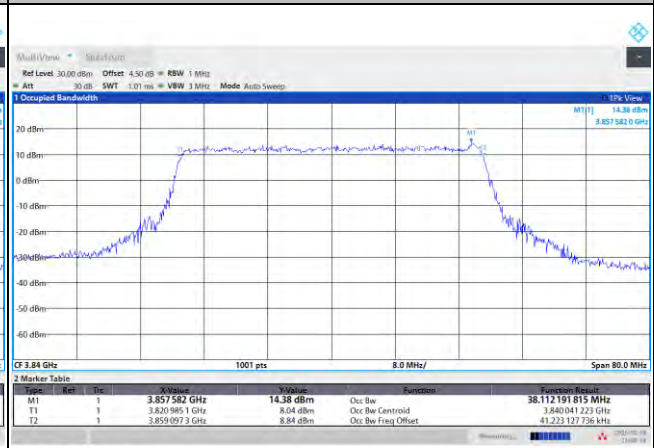
FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



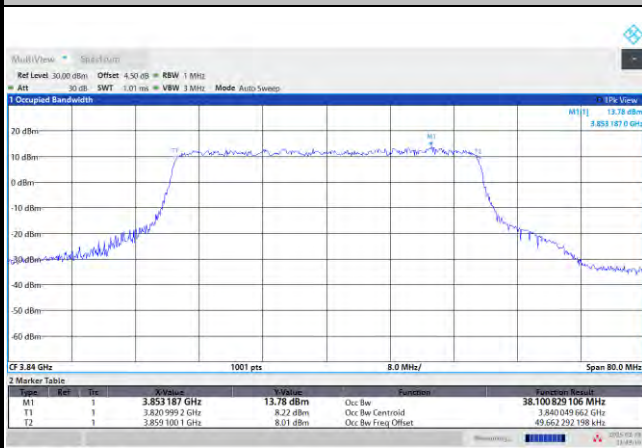
10:47:22 PM 02/28/2025

16QAM



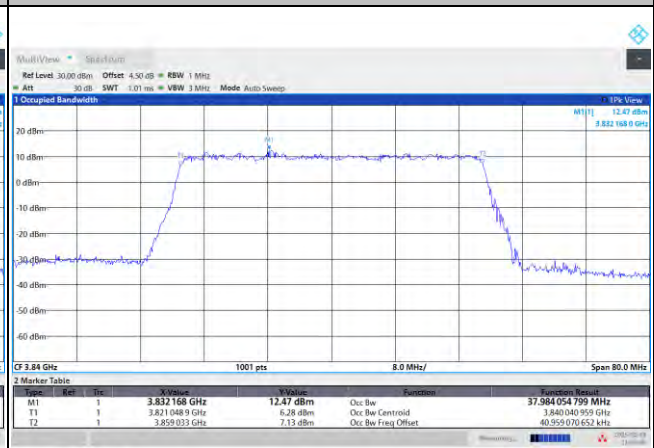
10:48:16 PM 02/28/2025

64QAM



10:49:11 PM 02/28/2025

256QAM

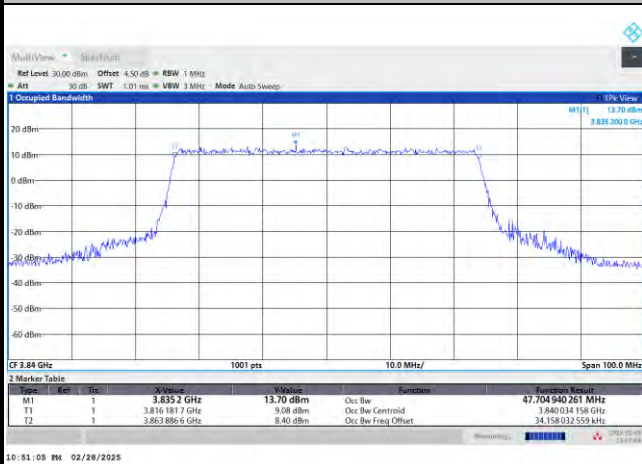


10:50:07 PM 02/28/2025

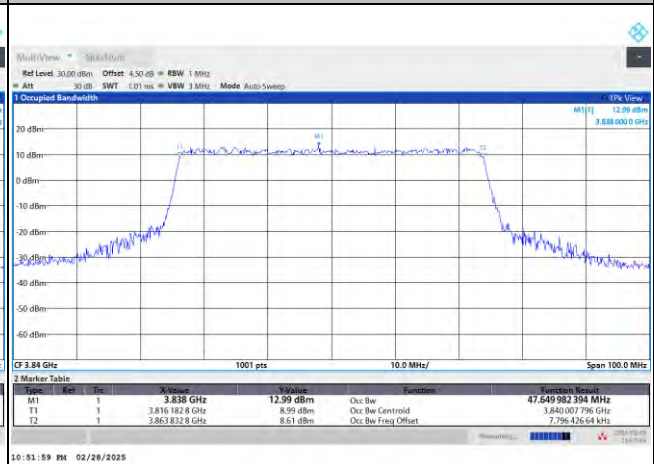


FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

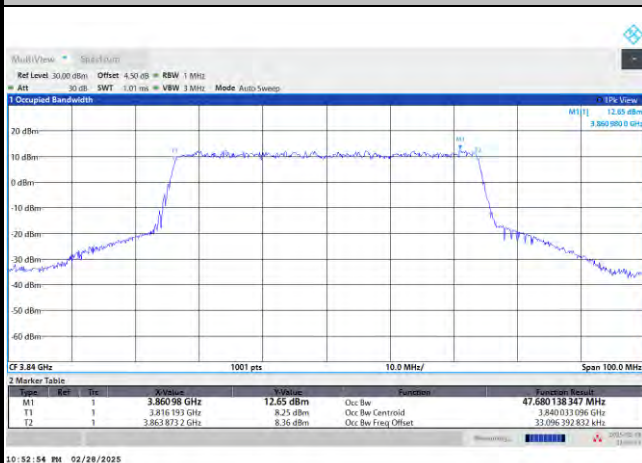
QPSK



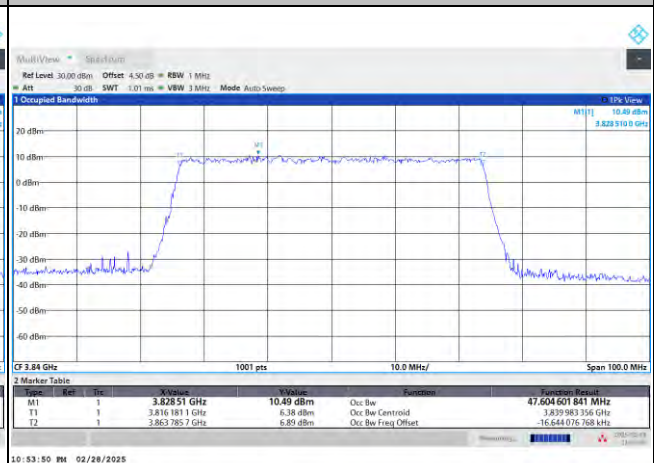
16QAM



64QAM



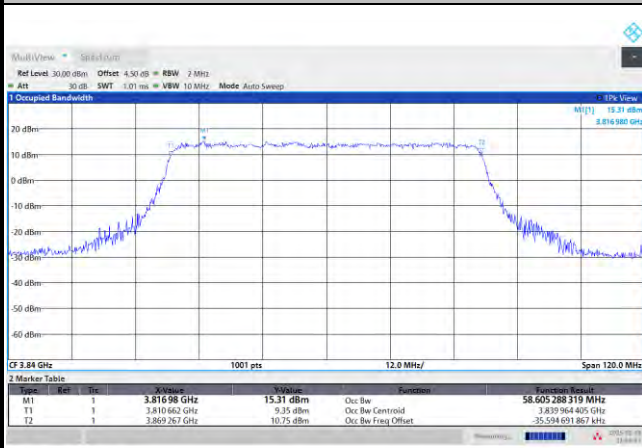
256QAM



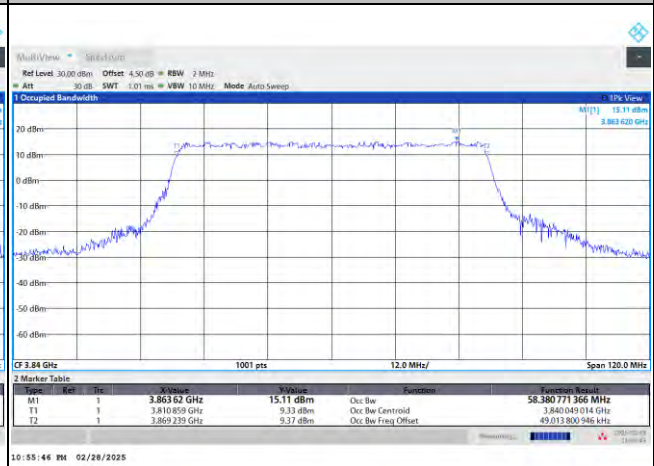


FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

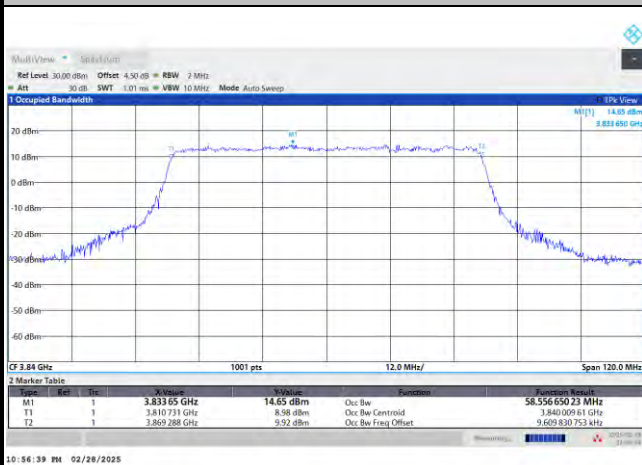
QPSK



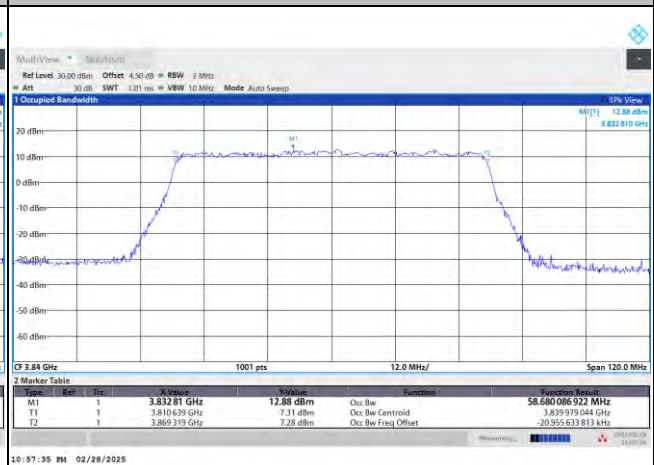
16QAM



64QAM



256QAM



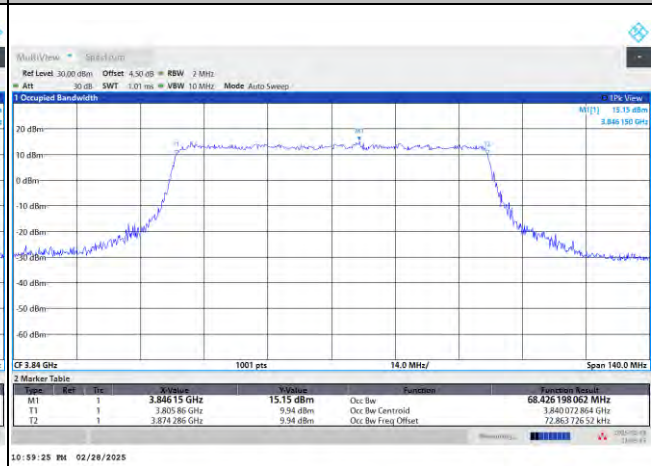


FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

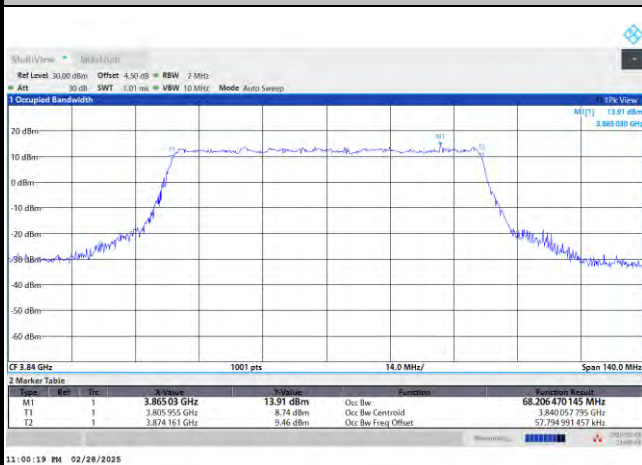
QPSK



16QAM



64QAM



256QAM

