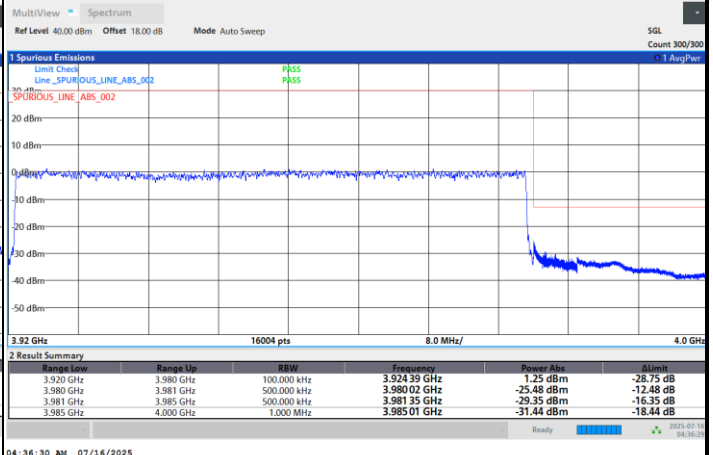
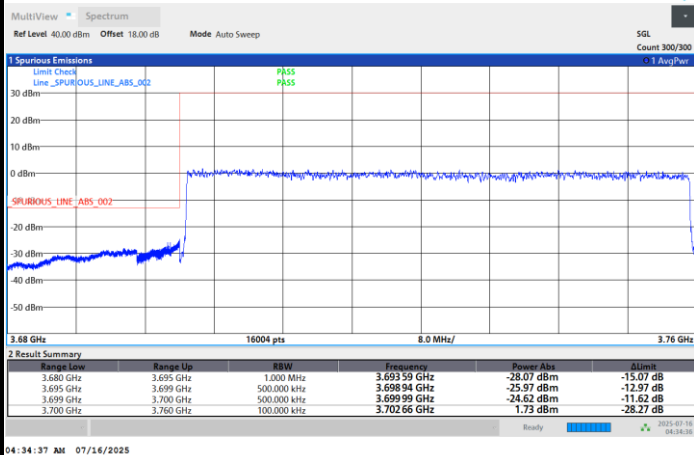




FR1 n77 / 60MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

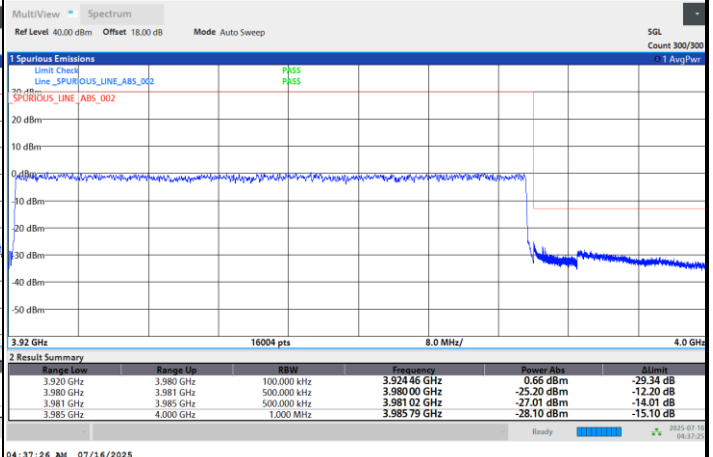
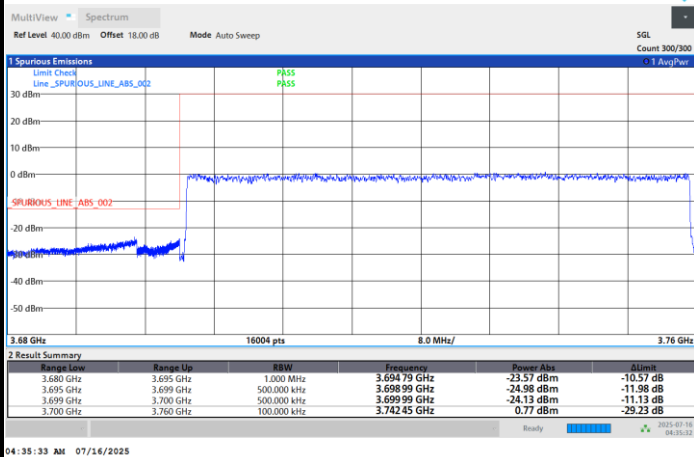
Highest Band Edge / Full RB



FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

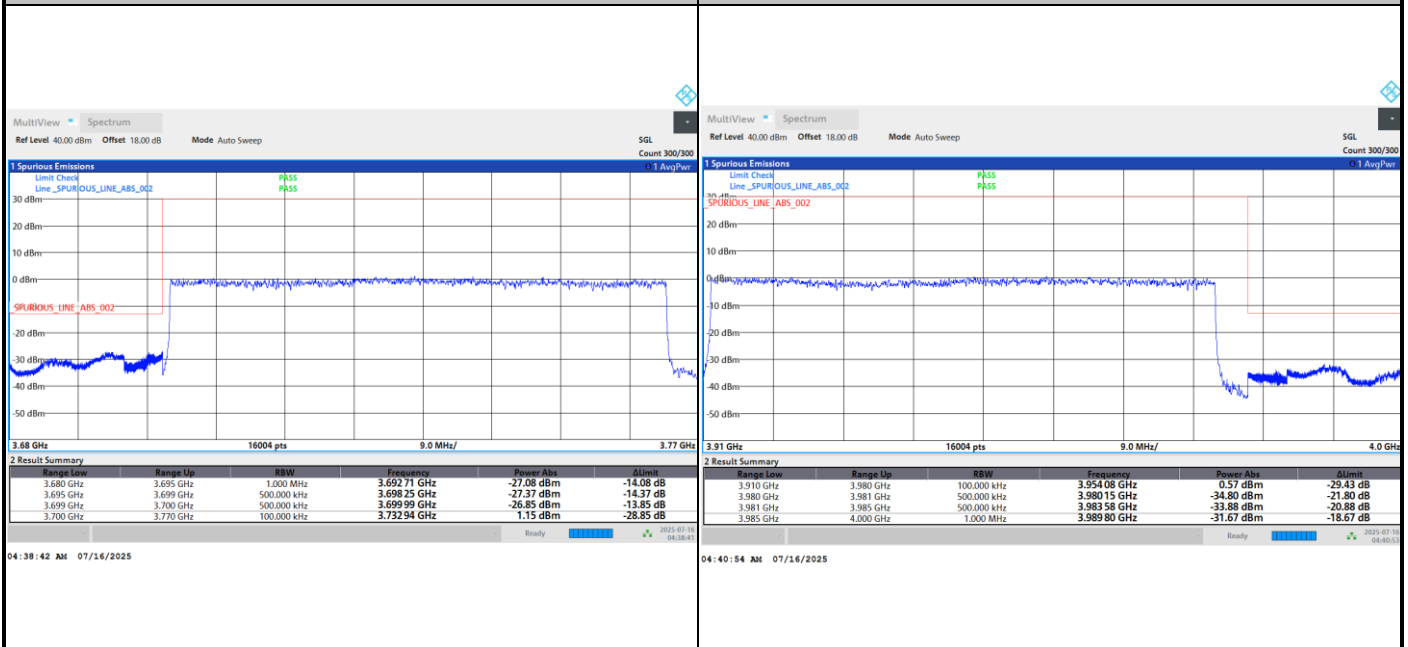




FR1 n77 / 70MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

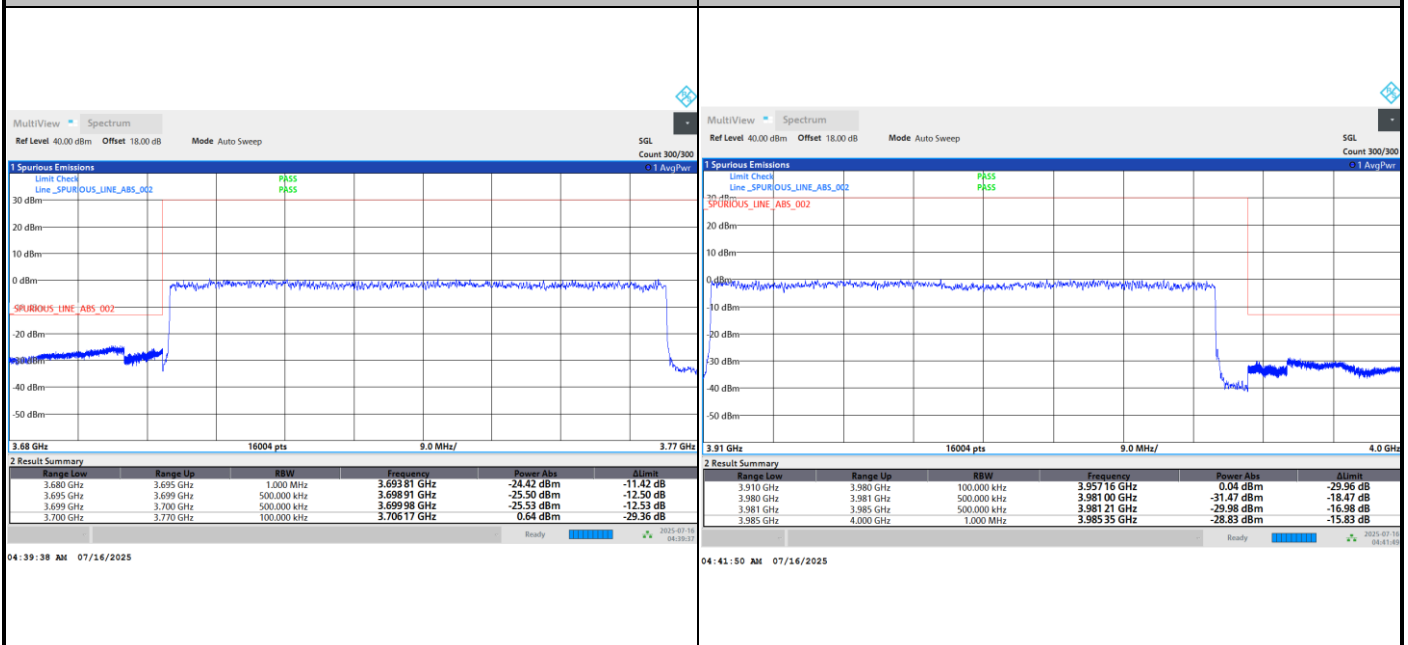
Highest Band Edge / Full RB



FR1 n77 / 70MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

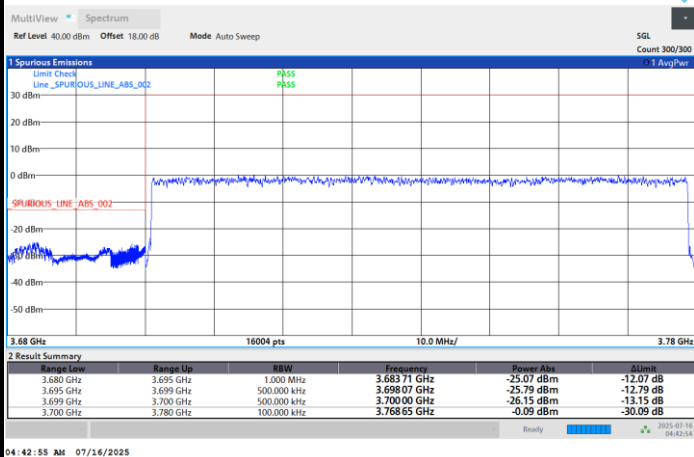




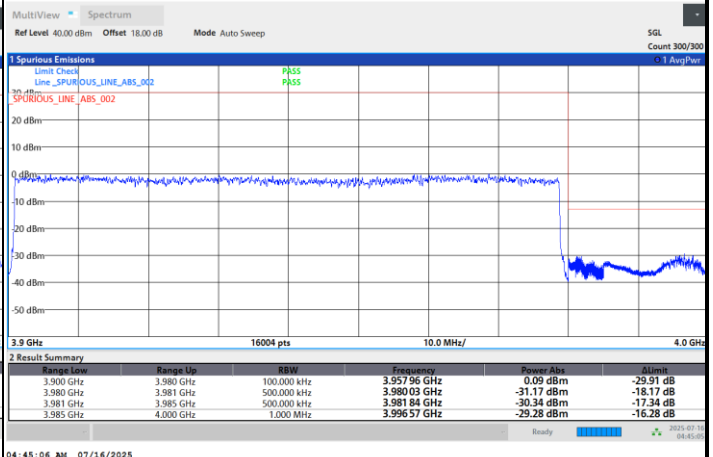
FR1 n77 / 80MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



04:42:55 AM 07/16/2025

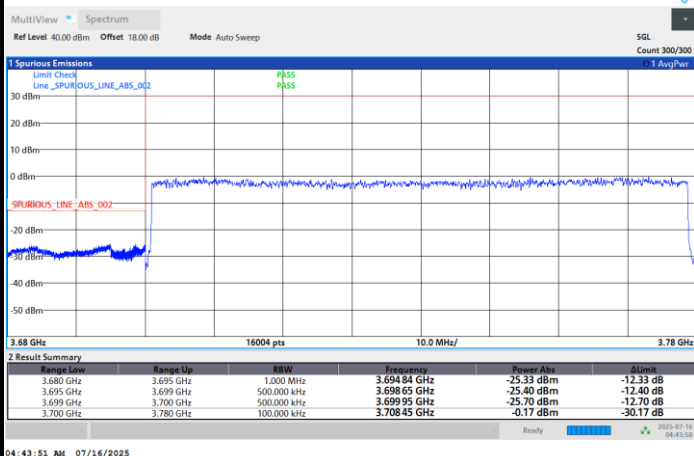


04:45:06 AM 07/16/2025

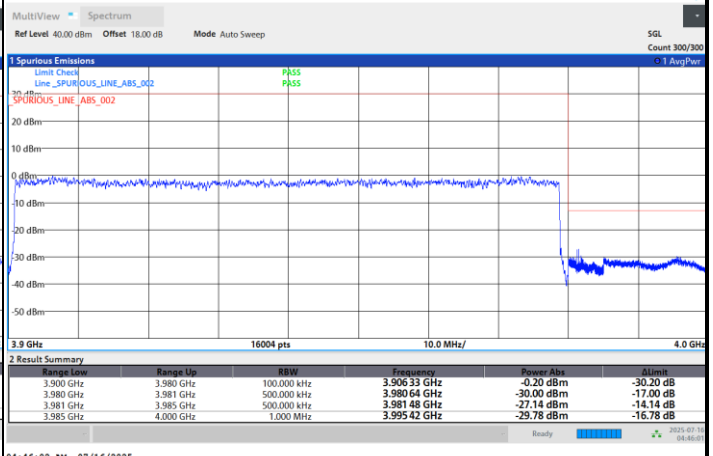
FR1 n77 / 80MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



04:43:51 AM 07/16/2025



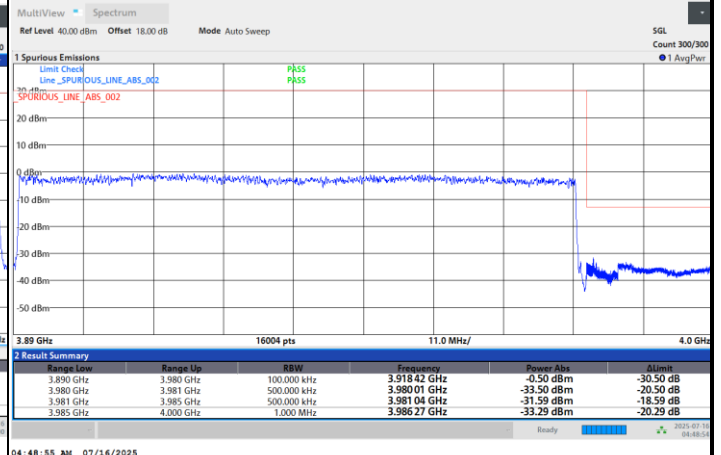
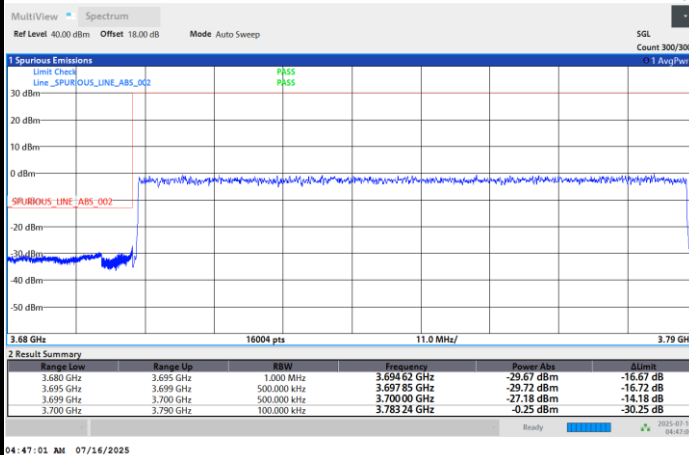
04:46:02 AM 07/16/2025



FR1 n77 / 90MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

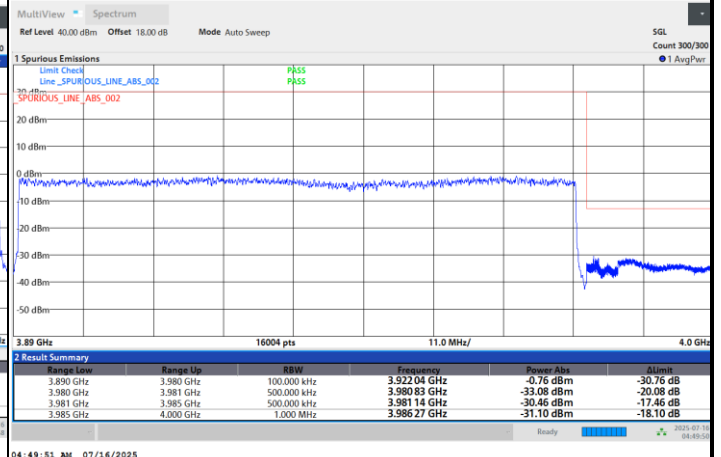
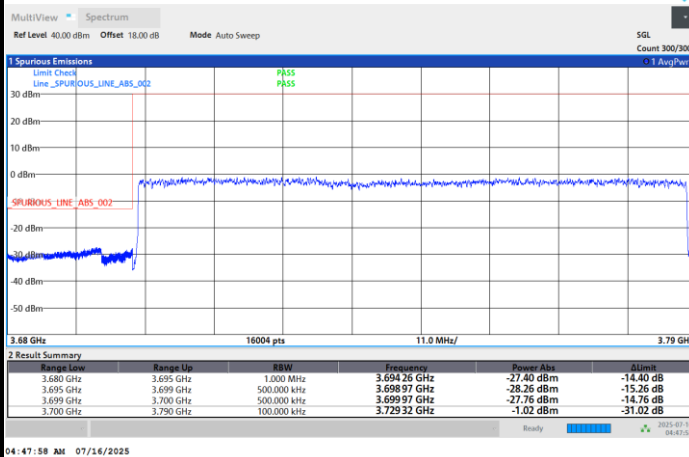
Highest Band Edge / Full RB



FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

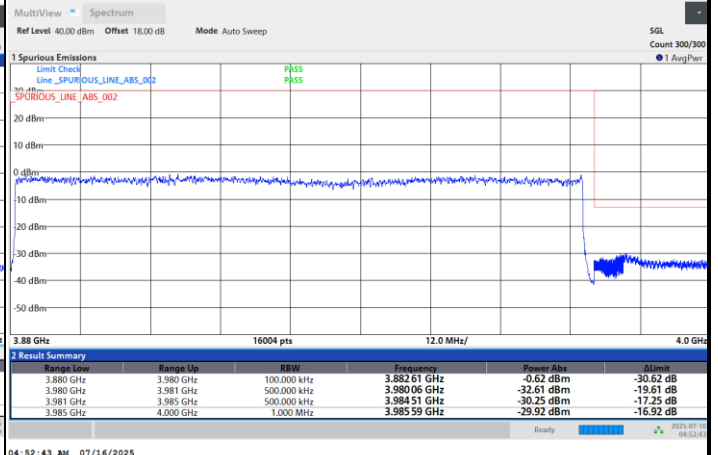
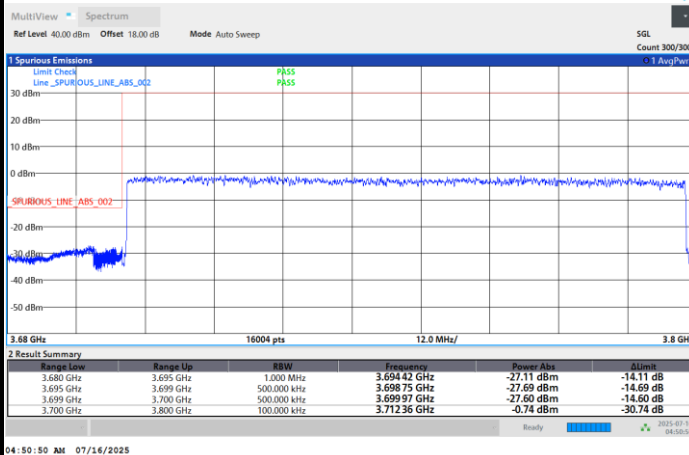




FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

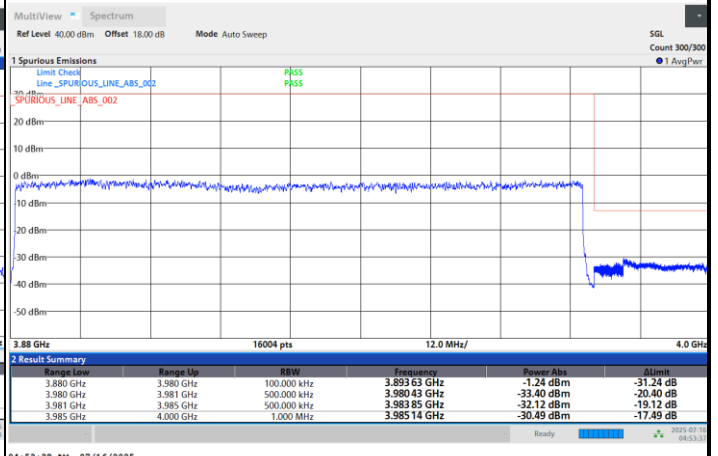
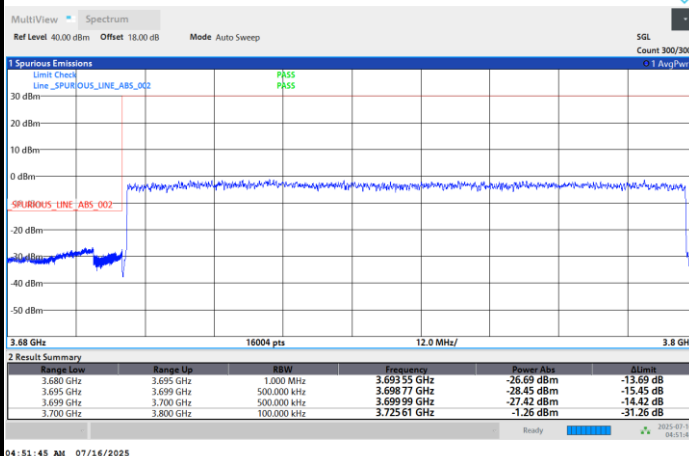
Highest Band Edge / Full RB



FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



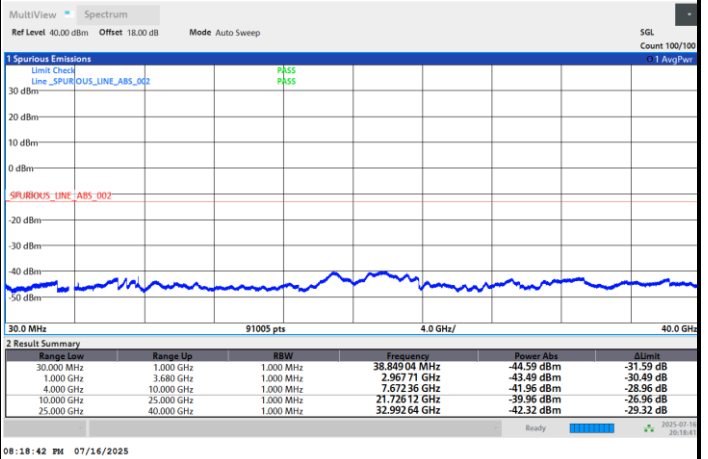
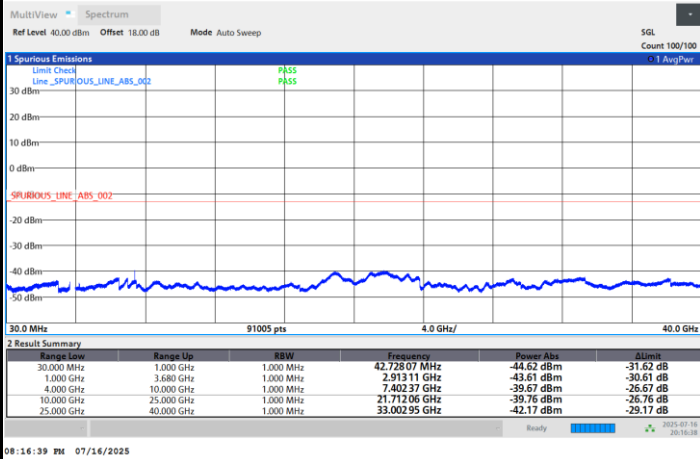


Conducted Spurious Emission

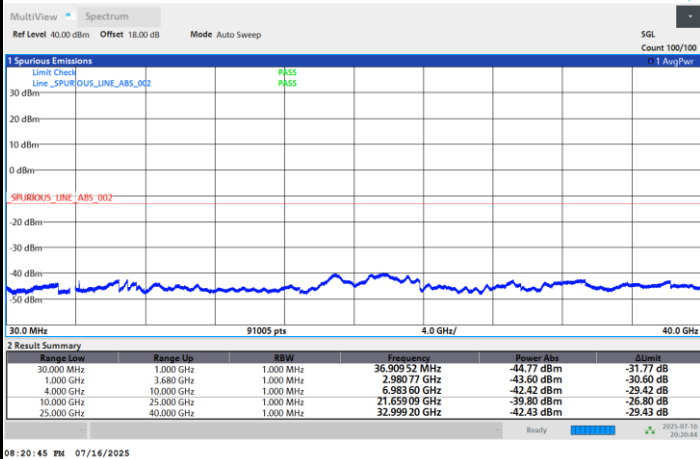
FR1 n77 / 10MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n77 (BPSK) / Middle Channel 10M			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (Δf) (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0011	-4.2	Yes	PASS
40	Normal Voltage	0.0017	-6.6	Yes	
30	Normal Voltage	0.0008	-3.2	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0001	0.4	Yes	
0	Normal Voltage	0.0015	5.7	Yes	
-10	Normal Voltage	0.0022	8.5	Yes	
-20	Normal Voltage	0.0009	3.5	Yes	
-30	Normal Voltage	0.0005	-2	Yes	
20	Maximum Voltage	0.0010	-3.7	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0021	8	Yes	

Note:

1. Normal Voltage = 3.3 V. ; Minimum Voltage = 3.135 V. ; Maximum Voltage = 3.63 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.

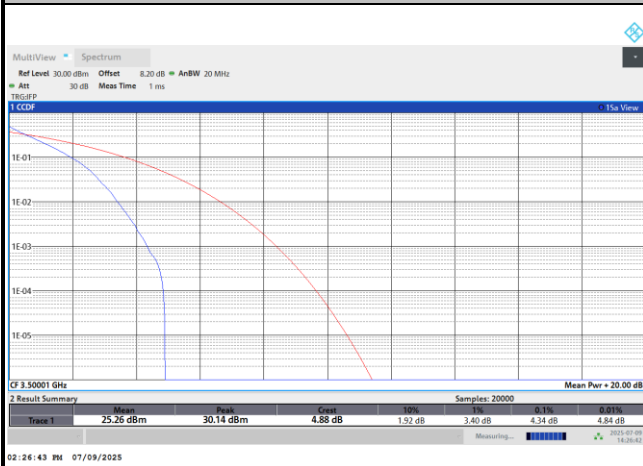
**FR1 n77_Part27O****<SISO Mode>****Peak-to-Average Ratio**

Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.34	5.30	6.20	6.46	PASS
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.50				PASS

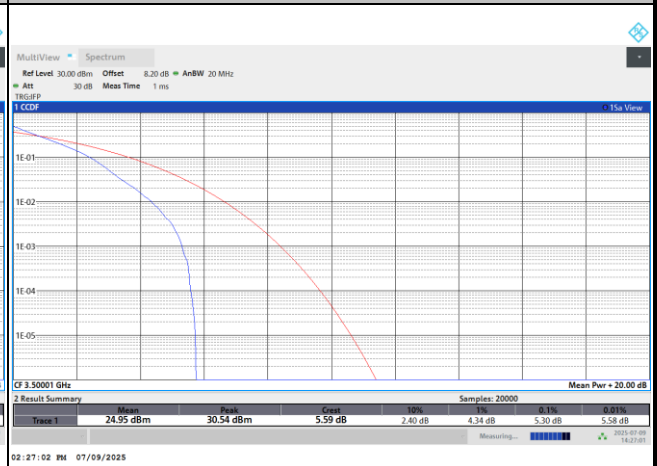


FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

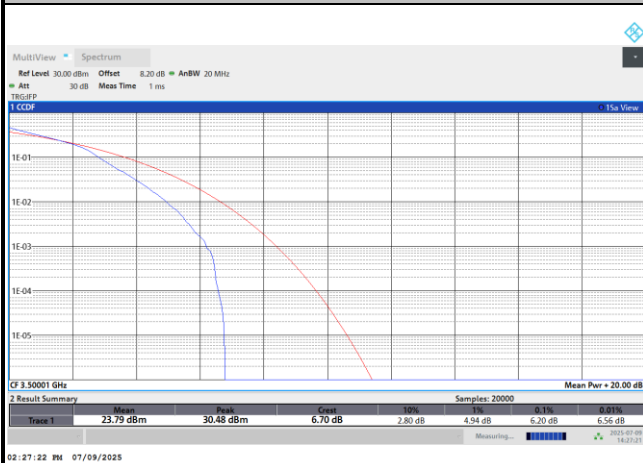
PI/2 BPSK



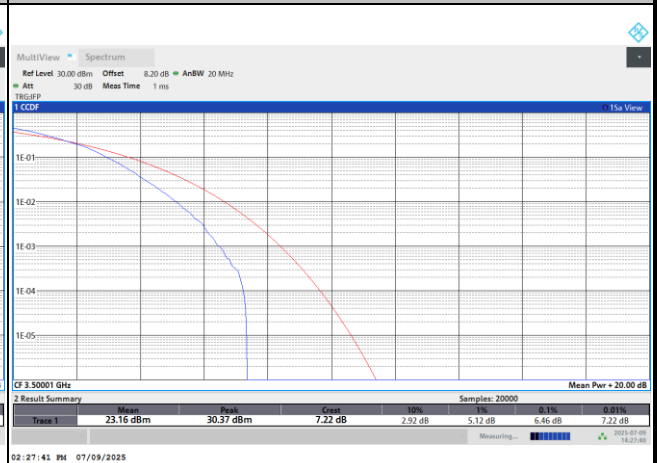
QPSK



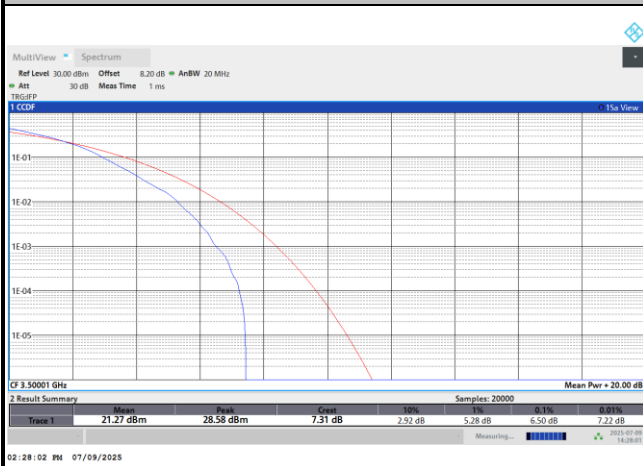
16QAM



64QAM



256QAM



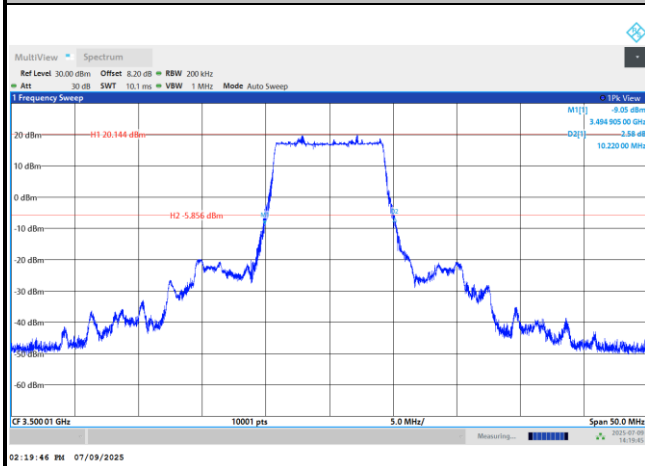
**26dB Bandwidth**

Mode	FR1 n77 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	10.22	10.27	14.73	14.67	19.86	20.05	-	-
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	10.15		14.77		19.91		-	
BW	30MHz		35MHz		40MHz		45MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	29.67	29.82	-	-	38.67	38.76	-	-
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	29.91		-		38.94		-	
BW	50MHz		60MHz		70MHz		80MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	48.84	48.75	62.88	63.04	69.27	69.34	81.90	82.57
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	48.51		62.82		69.27		82.27	
BW	90MHz		100MHz					
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK				
Middle CH	91.77	92.04	101.63	101.61				
Mod.	16QAM		16QAM					
Middle CH	91.93		101.79					

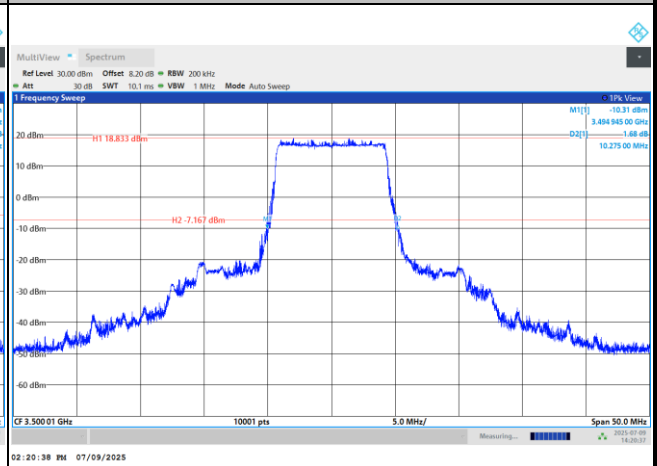


FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

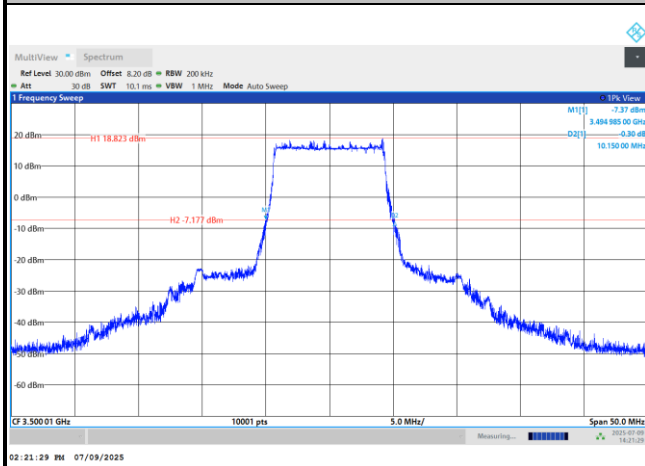
PI/2 BPSK



QPSK



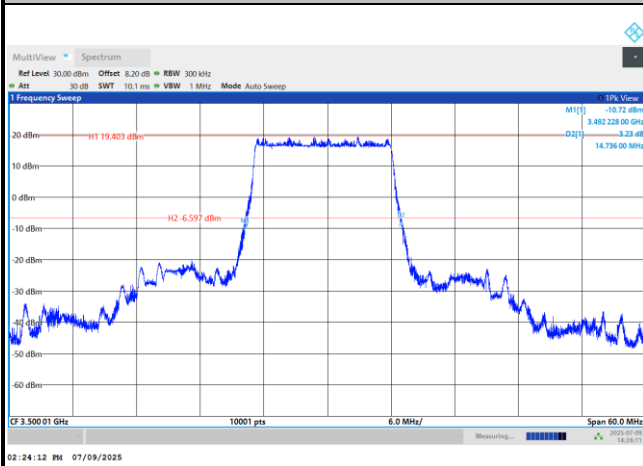
16QAM





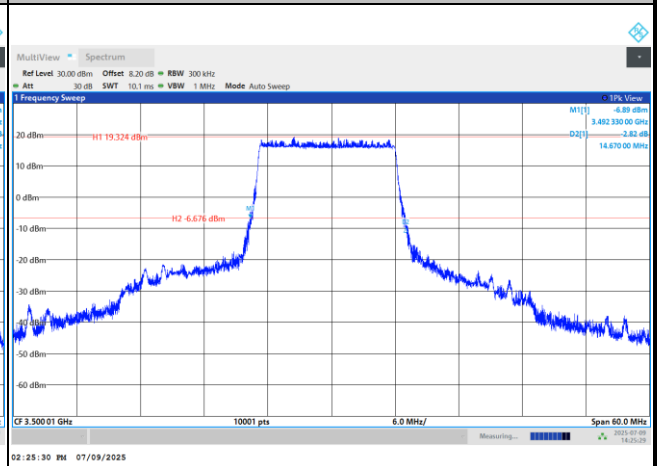
FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

QPSK



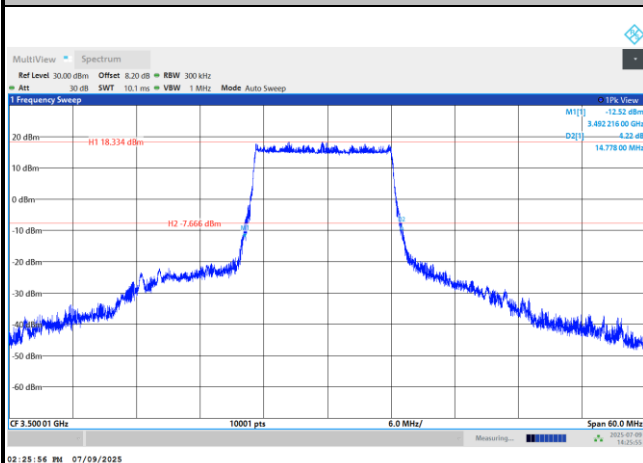
02:24:12 PM 07/09/2025

QPSK



02:25:30 PM 07/09/2025

16QAM

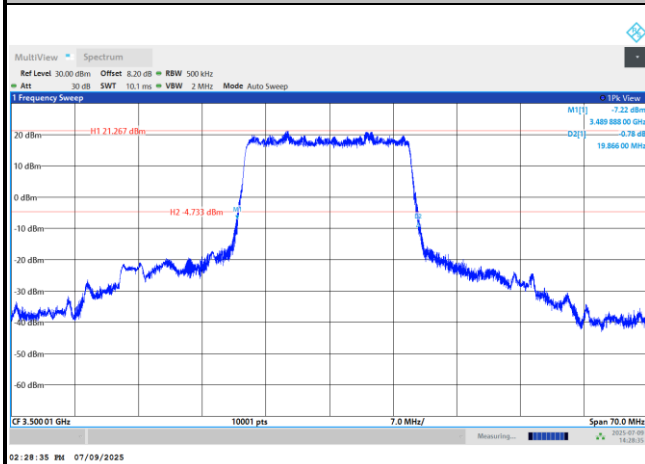


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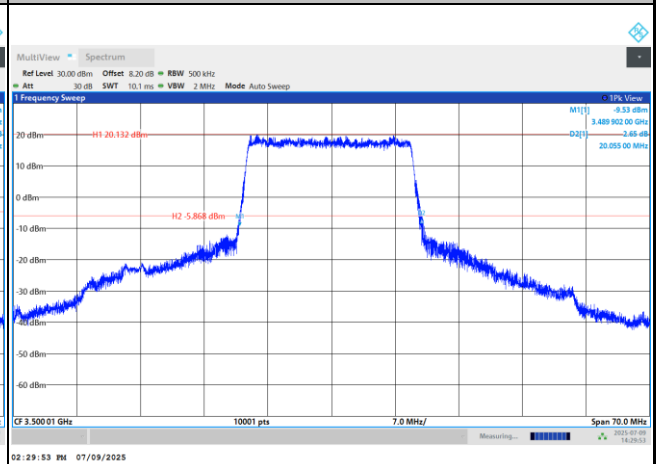


FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

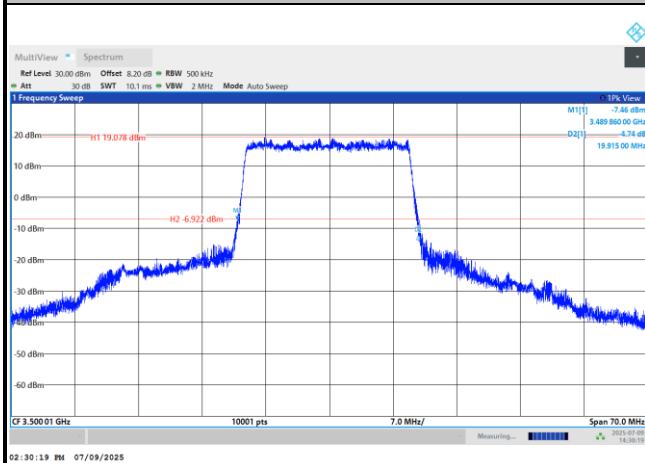
PI/2 BPSK



QPSK



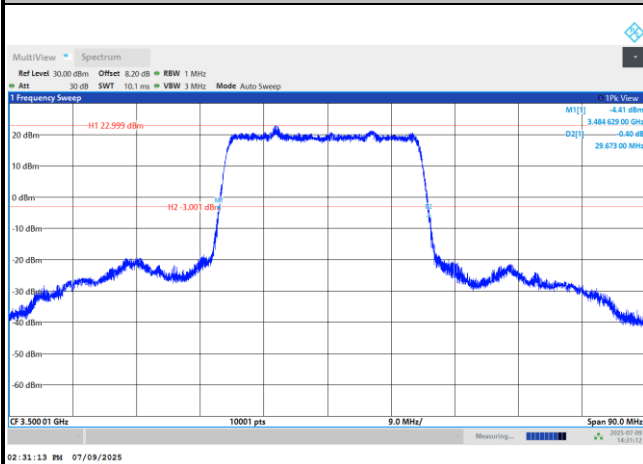
16QAM



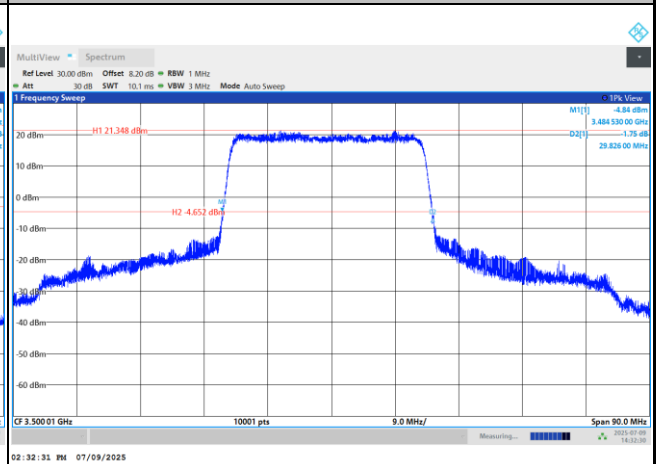


FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

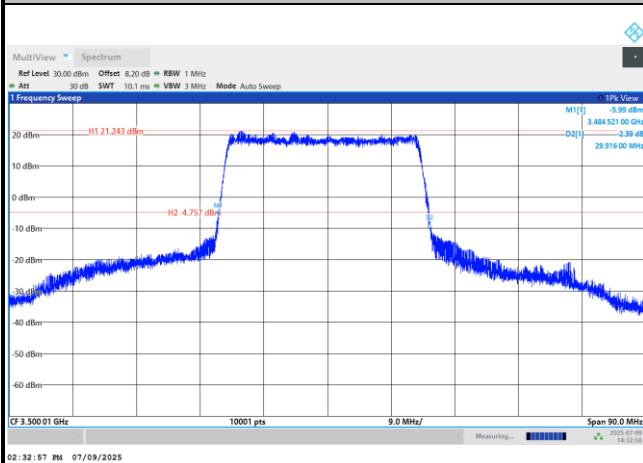
PI/2 BPSK



QPSK



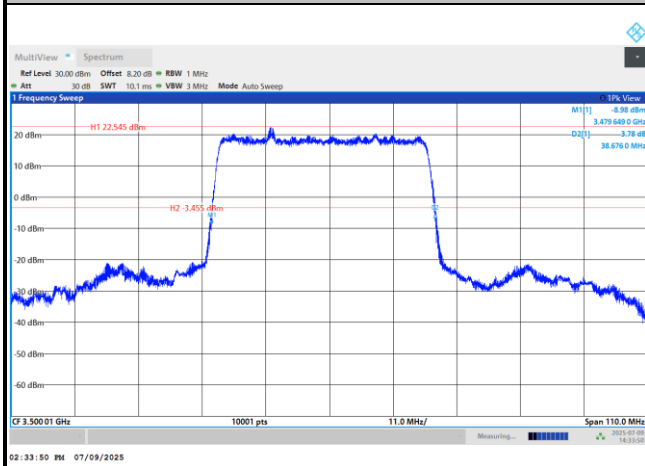
16QAM



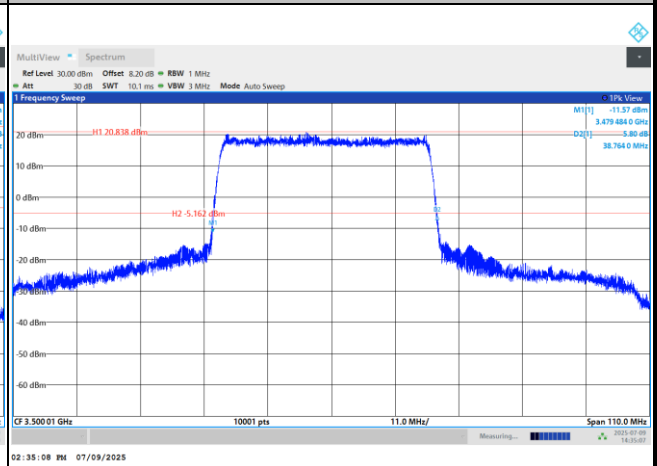


FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

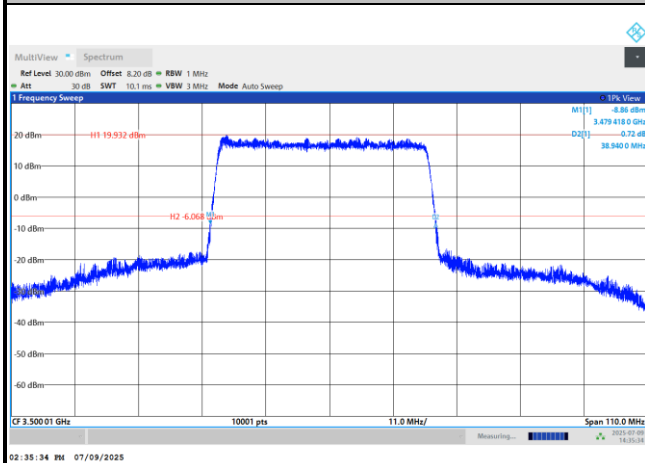
PI/2 BPSK



QPSK

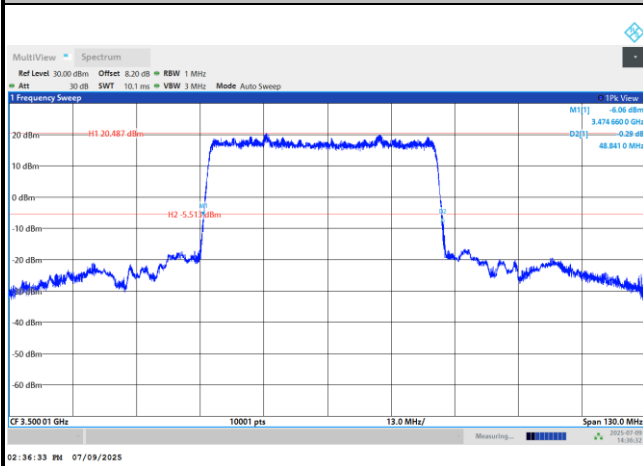


16QAM

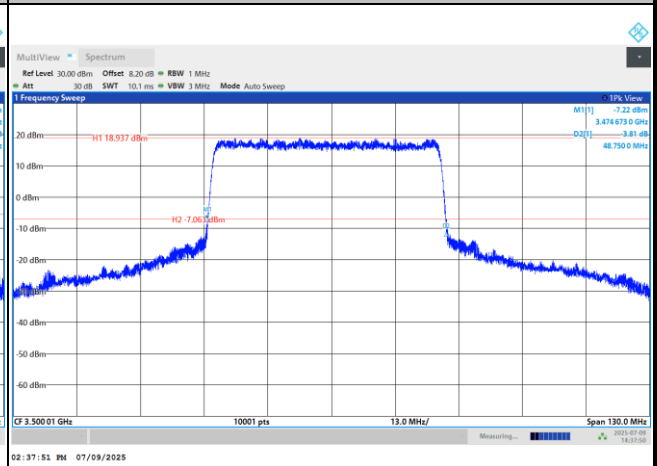




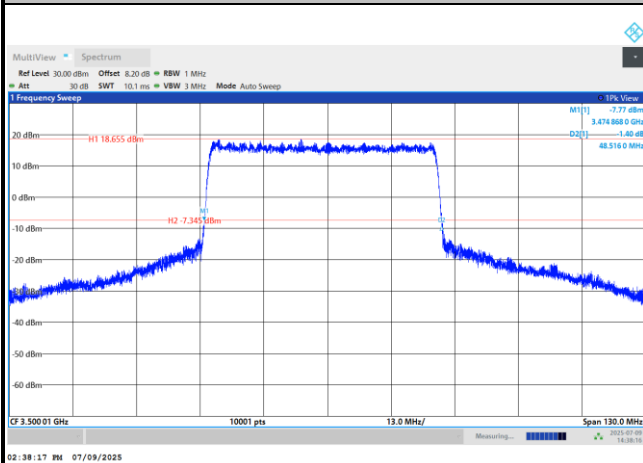
FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

QPSK



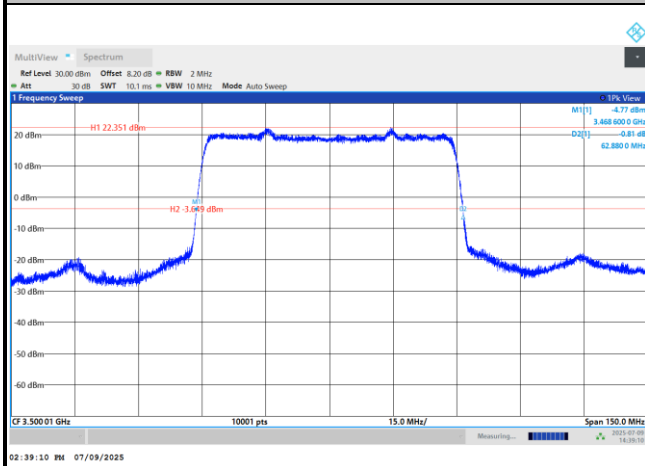
16QAM



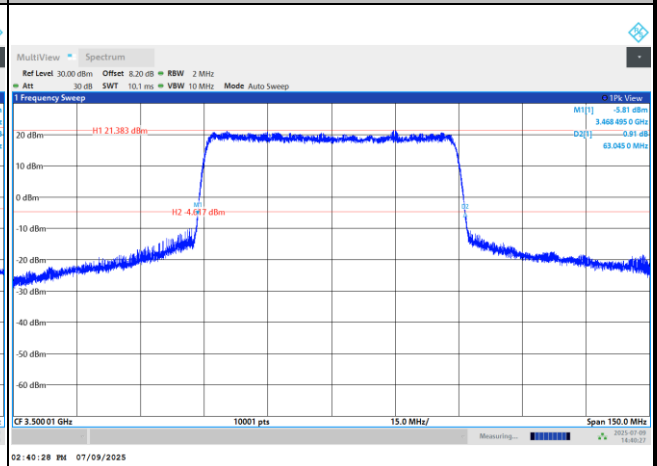


FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

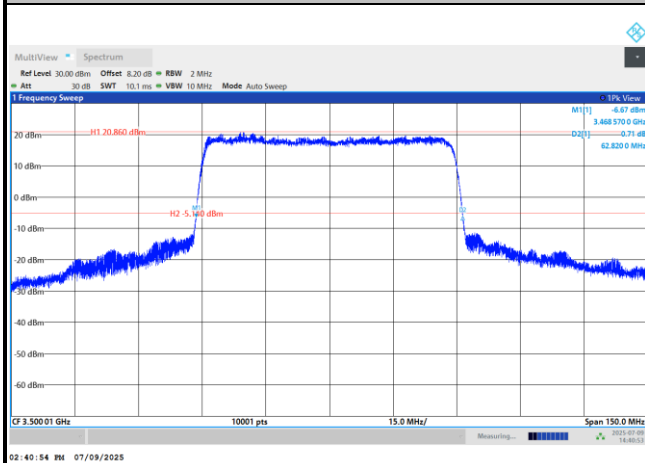
PI/2 BPSK



QPSK

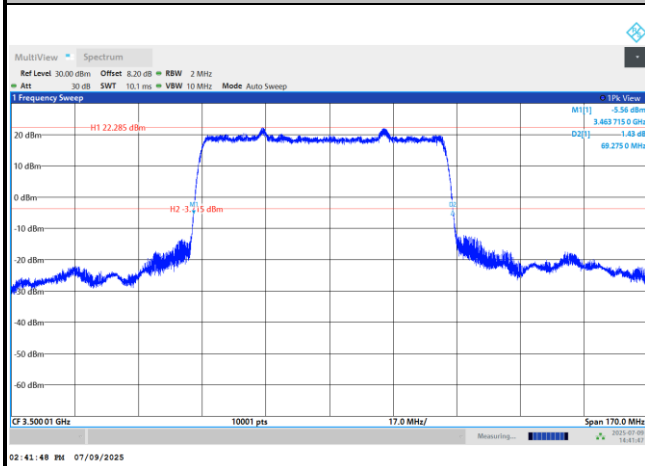


16QAM

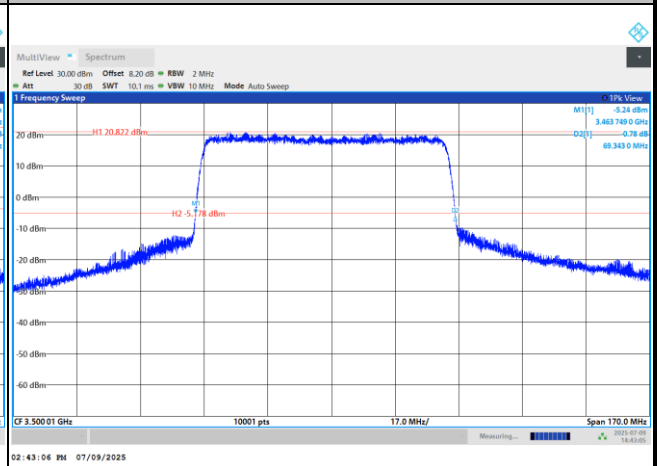


FR1 n77 / 70MHz / DFT-S OFDM / Middle Channel / Full RB

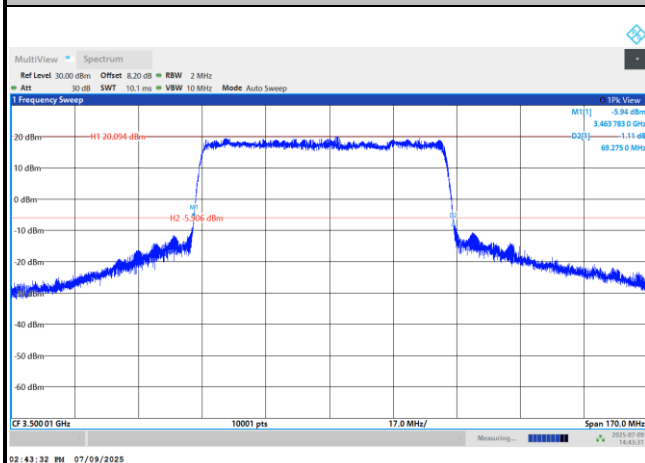
PI/2 BPSK



QPSK



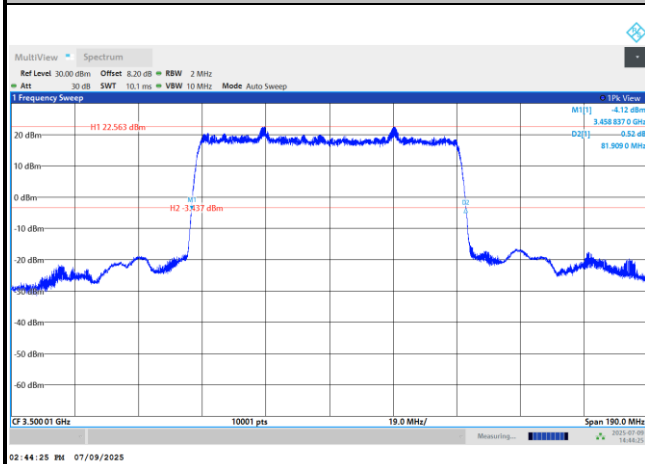
16QAM



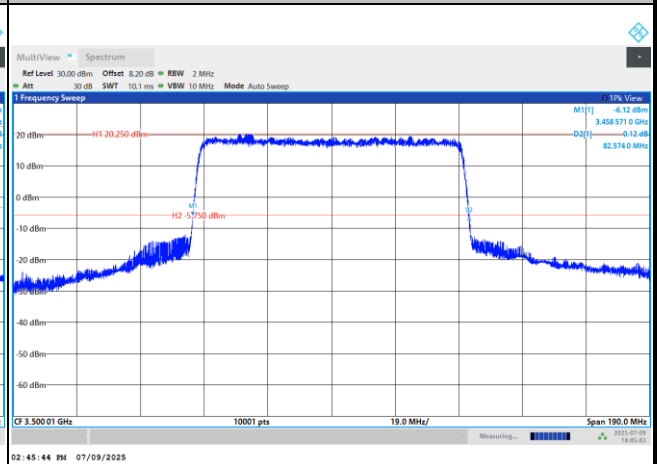


FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

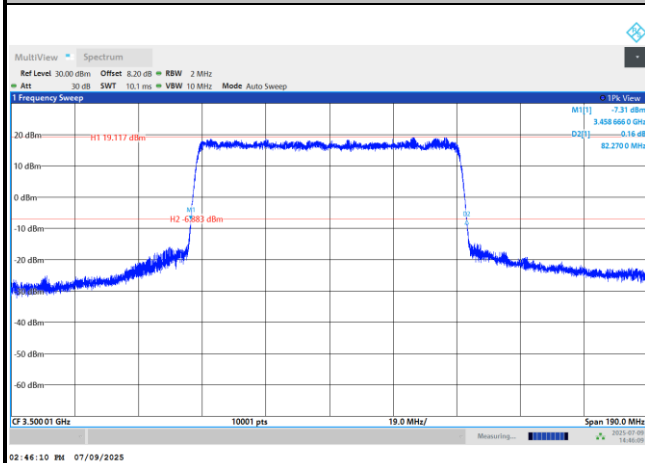
PI/2 BPSK



QPSK



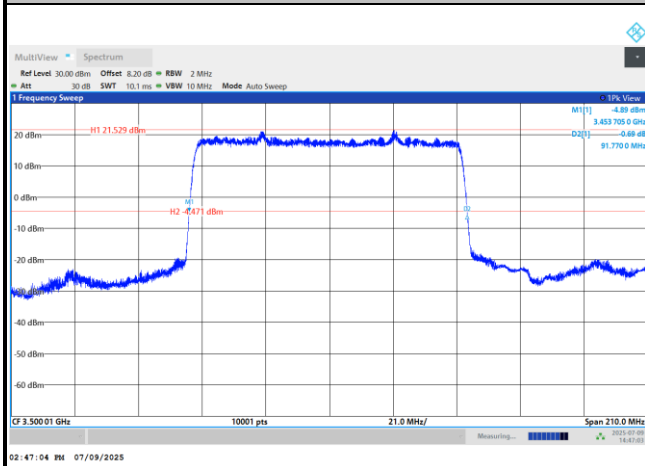
16QAM



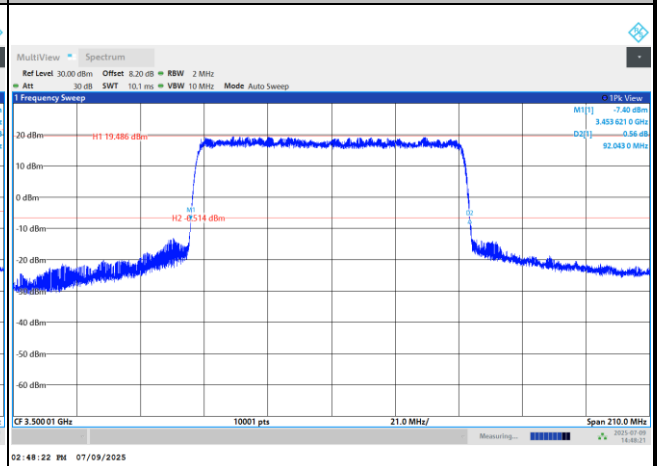


FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

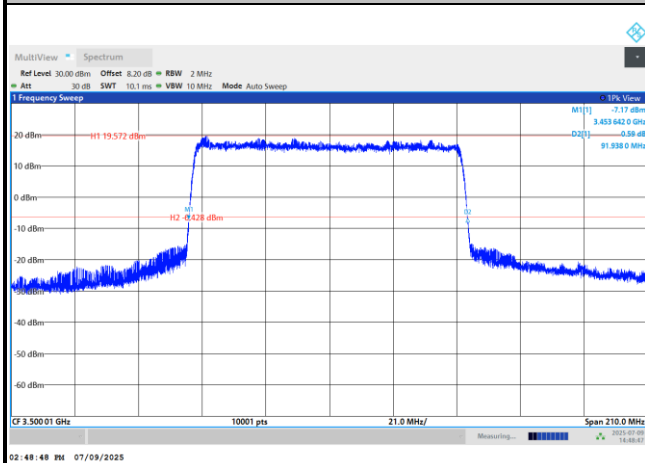
PI/2 BPSK



QPSK



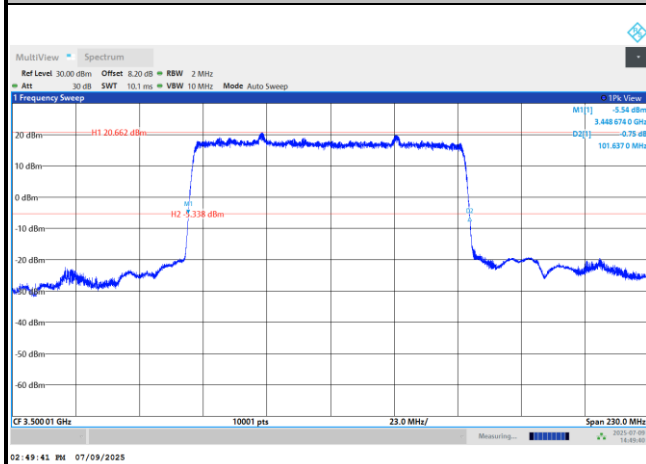
16QAM



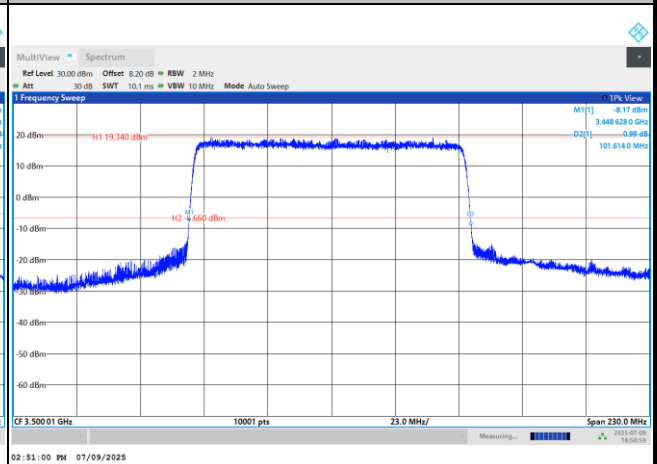


FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

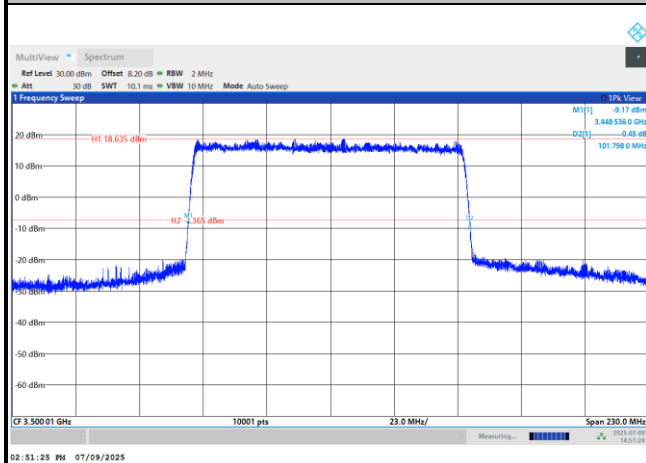
PI/2 BPSK



QPSK



16QAM



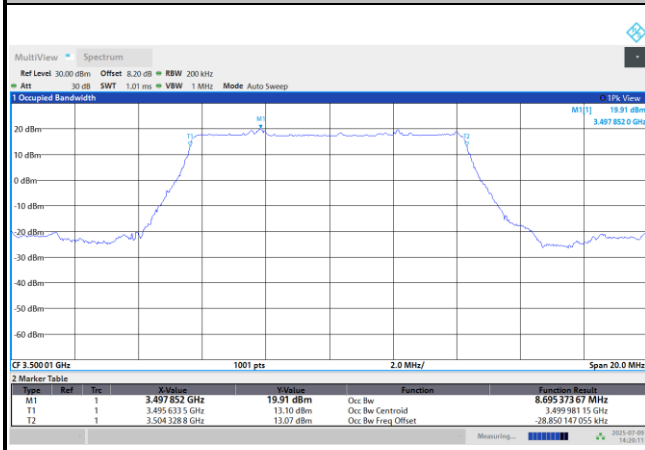
**Occupied Bandwidth**

Mode	FR1 n77 : 99%OBW(MHz) / DFT-S OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	8.69	8.69	12.97	12.94	18.02	18.07	-	-
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	8.71		13.01		18.09		-	
BW	30MHz		35MHz		40MHz		45MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	27.21	27.20	-	-	35.97	35.98	-	-
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	27.30		-		36.03		-	
BW	50MHz		60MHz		70MHz		80MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	45.95	45.97	58.61	58.81	64.98	64.88	77.48	77.77
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	46.05		58.65		64.95		77.56	
BW	90MHz		100MHz					
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK				
Middle CH	87.11	87.15	96.80	96.53				
Mod.	16QAM		16QAM					
Middle CH	87.41		96.71					



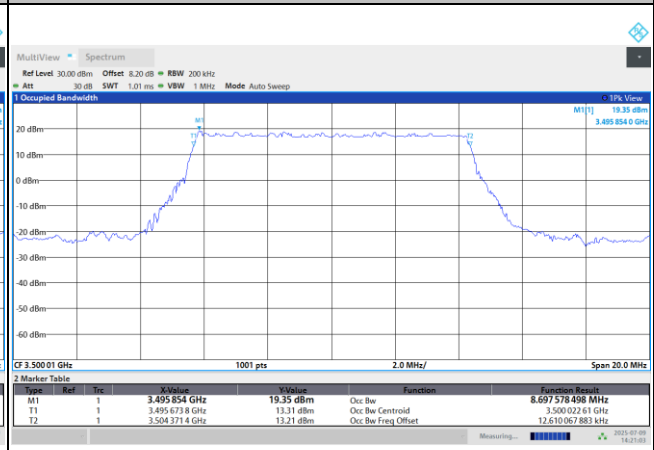
FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



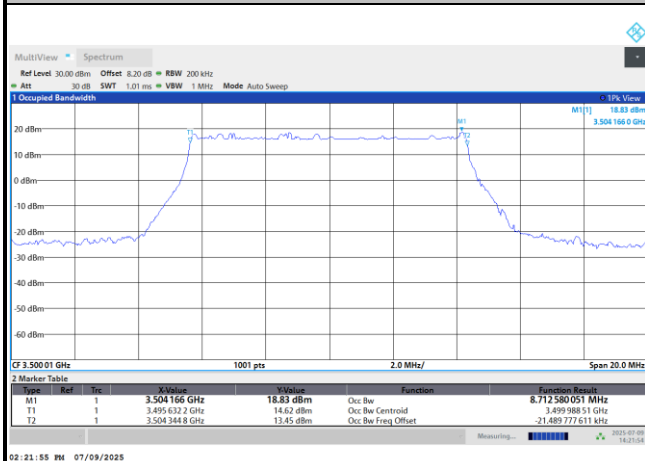
02:20:12 PM 07/09/2025

QPSK



02:21:03 PM 07/09/2025

16QAM

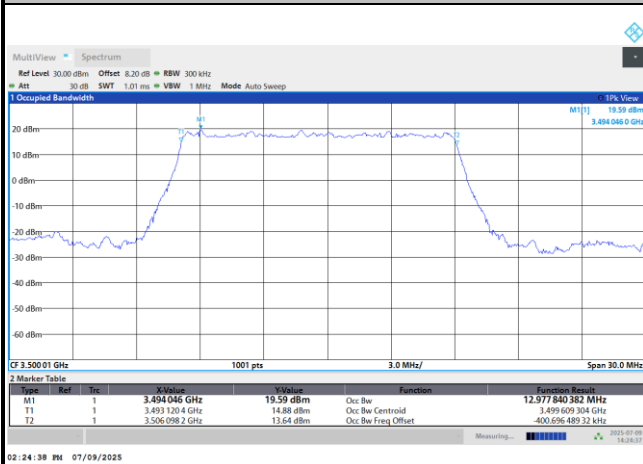


02:21:15 PM 07/09/2025



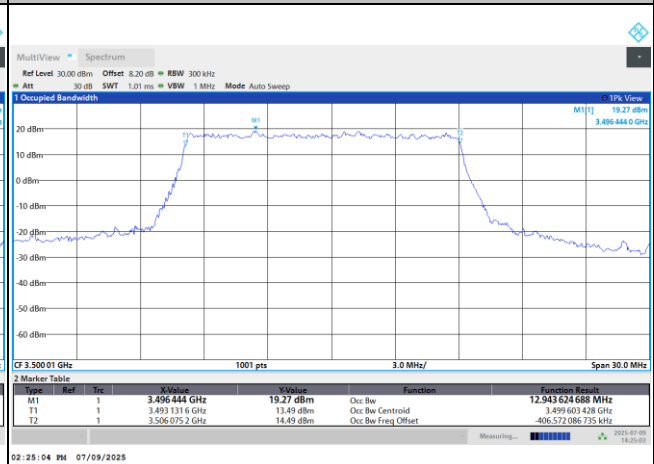
FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

QPSK



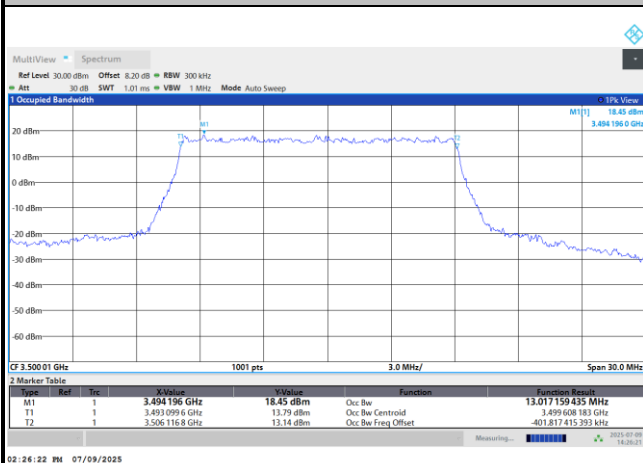
02:24:38 PM 07/09/2025

QPSK



02:25:04 PM 07/09/2025

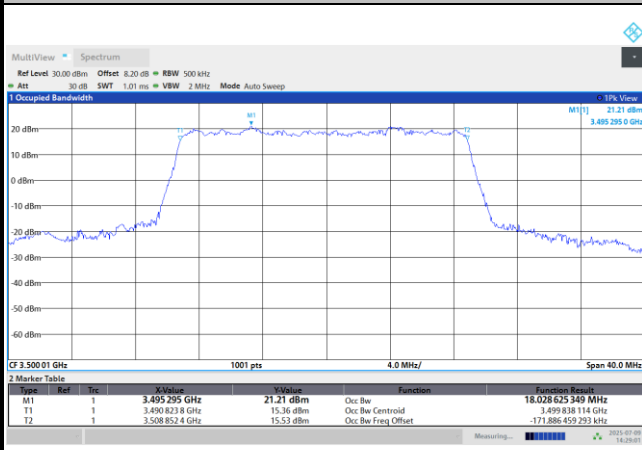
16QAM



02:26:22 PM 07/09/2025

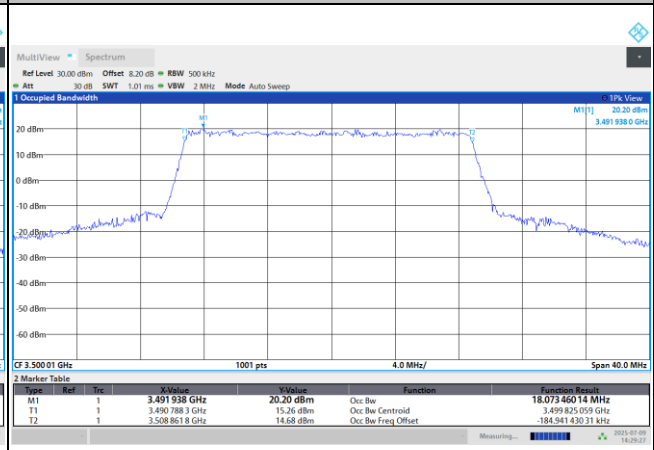
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



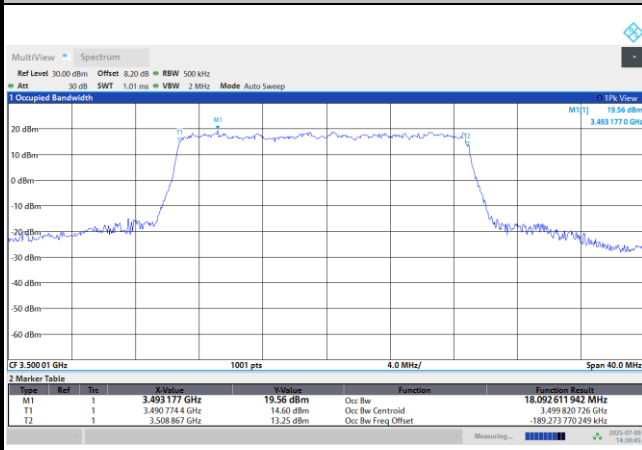
02:29:01 PM 07/09/2025

QPSK



02:29:28 PM 07/09/2025

16QAM

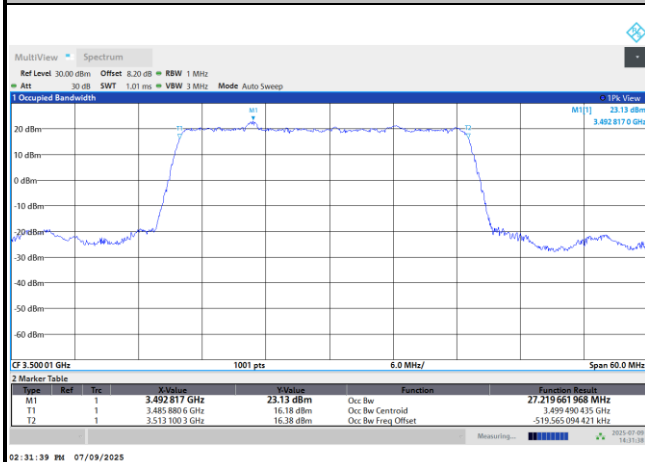


02:30:45 PM 07/09/2025

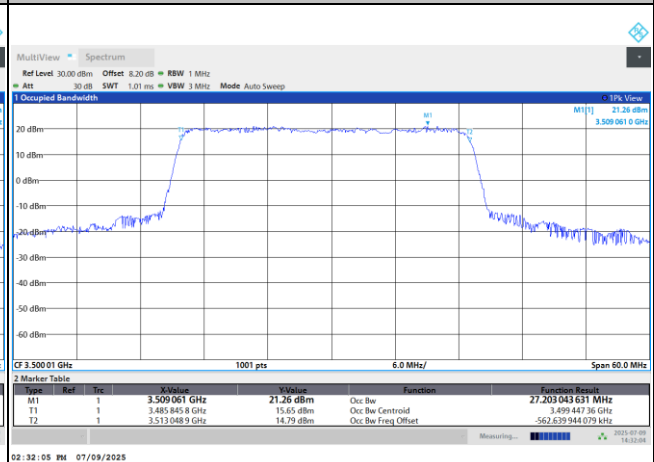


FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

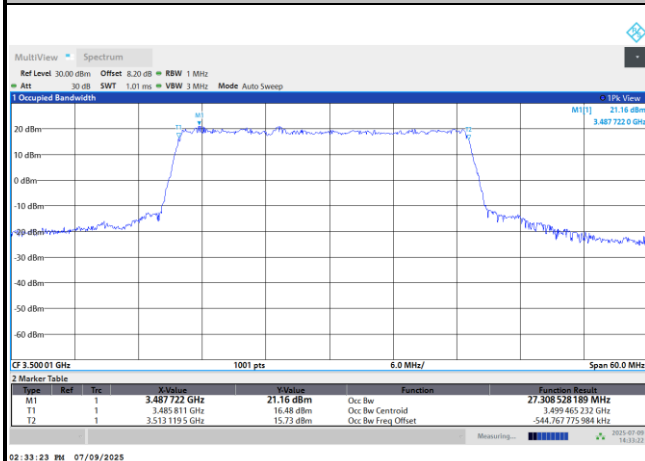
PI/2 BPSK



QPSK



16QAM

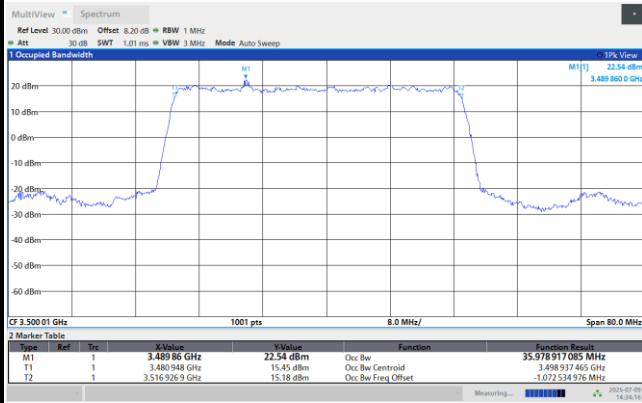




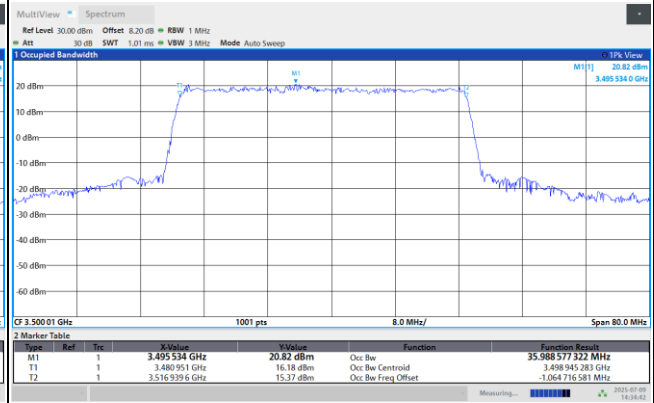
FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

QPSK

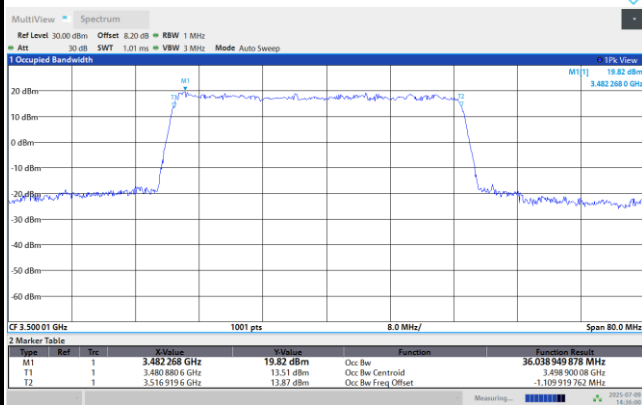


02:34:14 PM 07/09/2025



02:34:43 PM 07/09/2025

16QAM

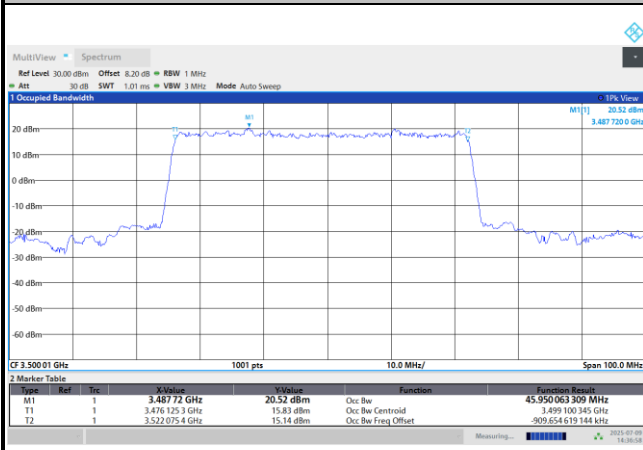


02:36:00 PM 07/09/2025



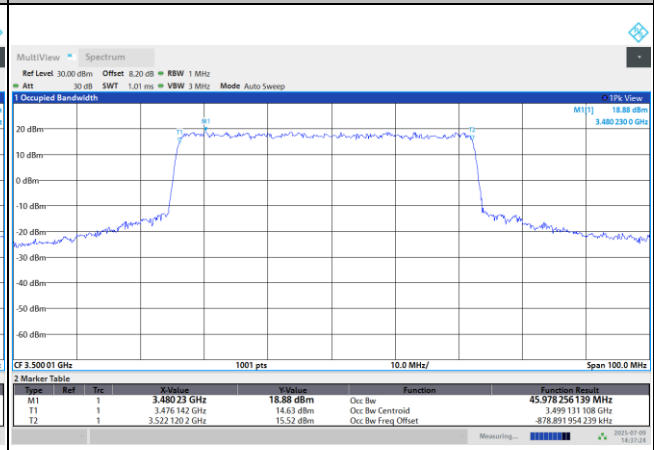
FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



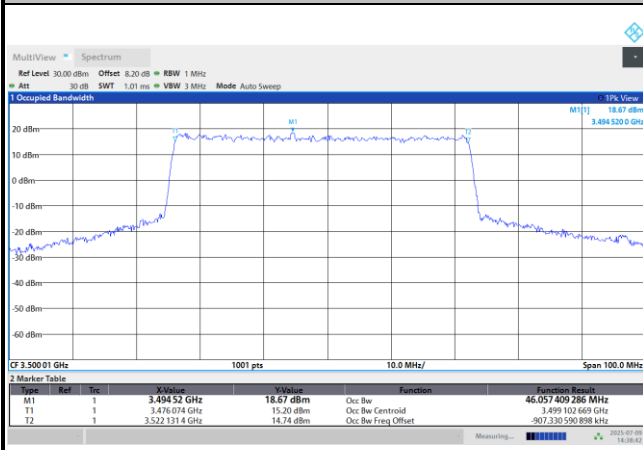
02:36:58 PM 07/09/2025

QPSK



02:37:25 PM 07/09/2025

16QAM

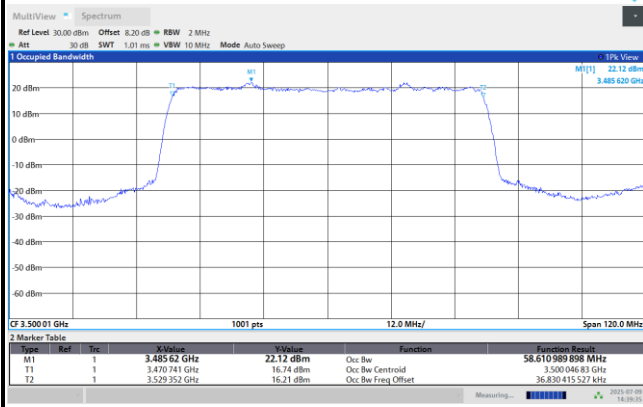


02:38:43 PM 07/09/2025

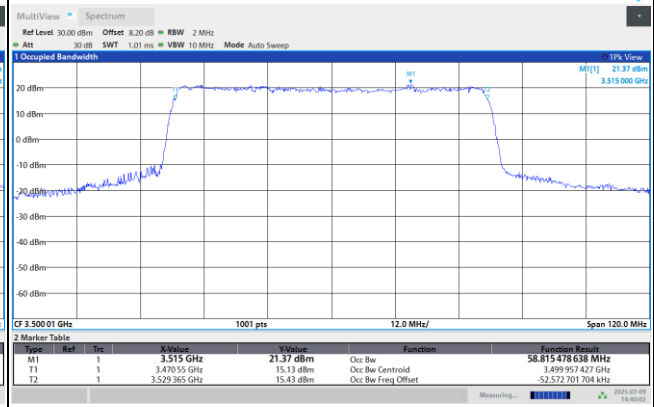


FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

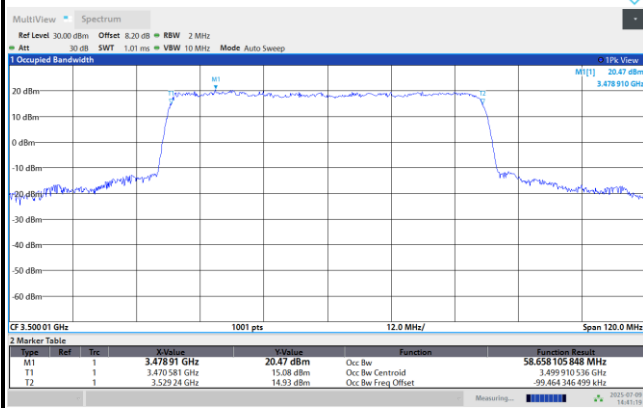
PI/2 BPSK



QPSK



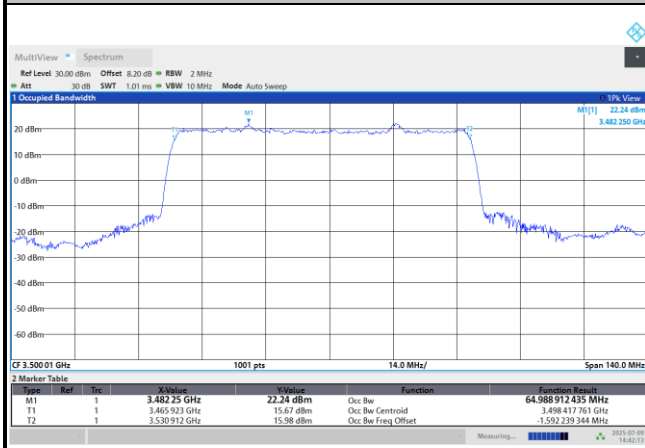
16QAM



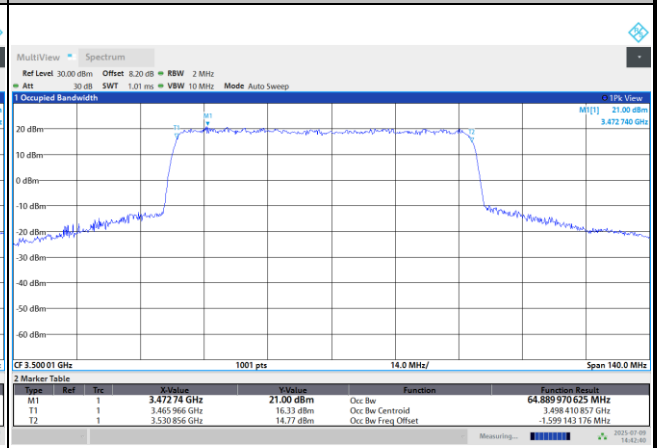


FR1 n77 / 70MHz / DFT-S OFDM / Middle Channel / Full RB

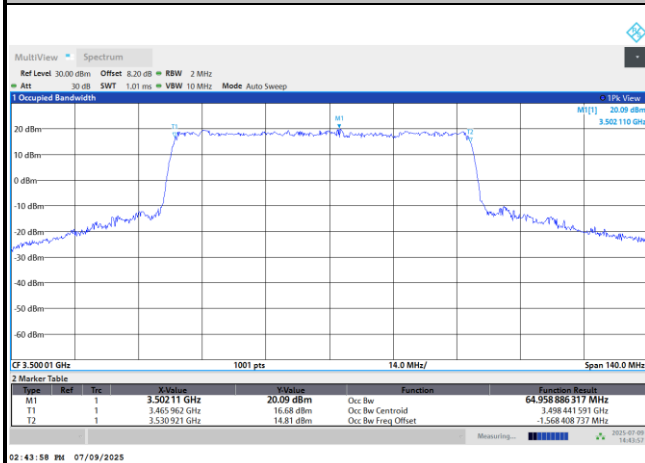
PI/2 BPSK



QPSK



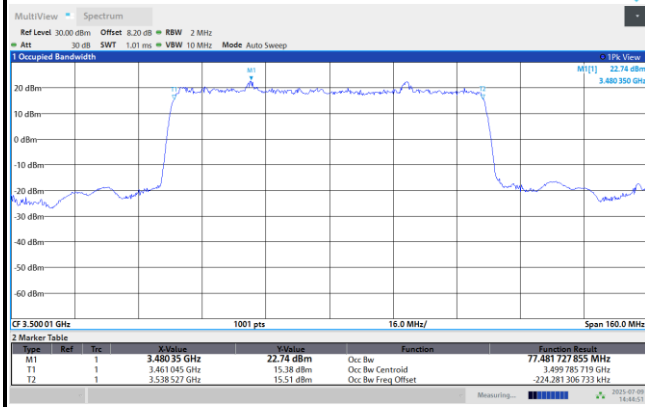
16QAM





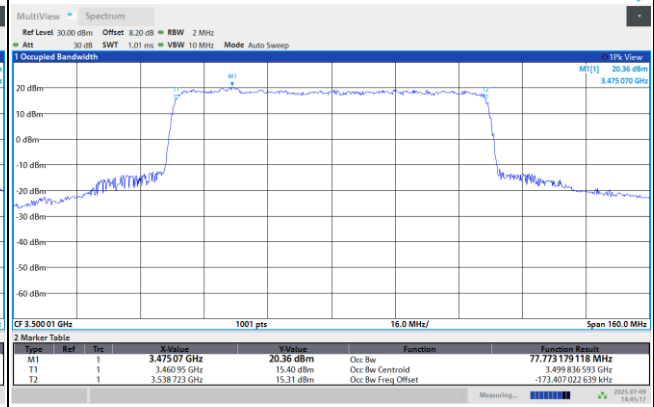
FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



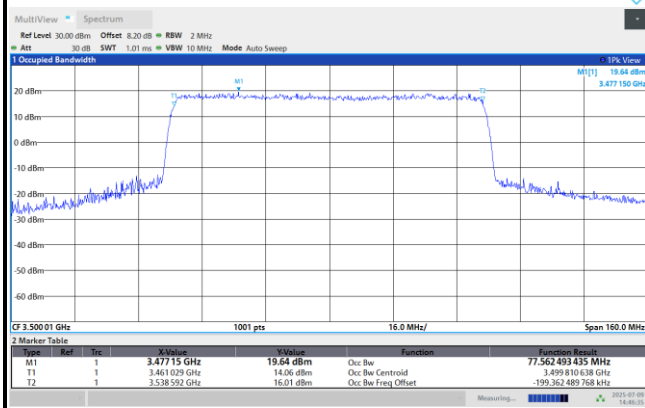
02:44:52 PM 07/09/2025

QPSK



02:45:18 PM 07/09/2025

16QAM

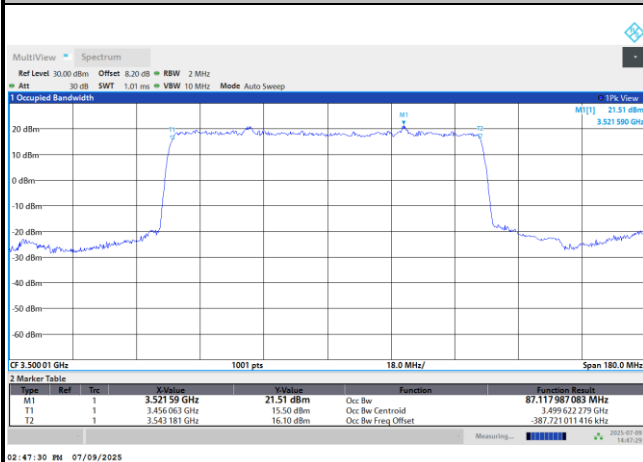


02:46:36 PM 07/09/2025



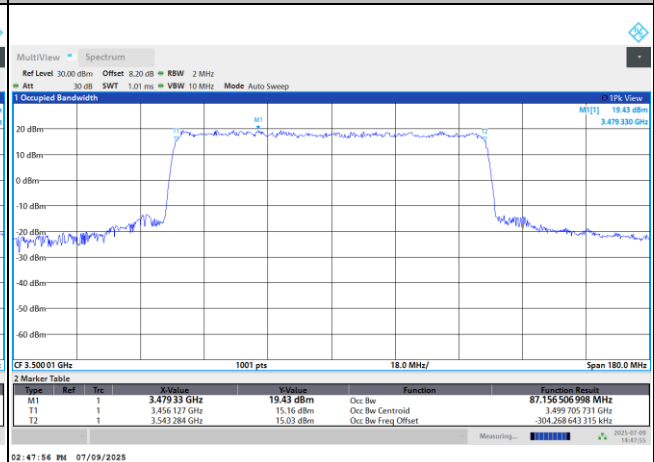
FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



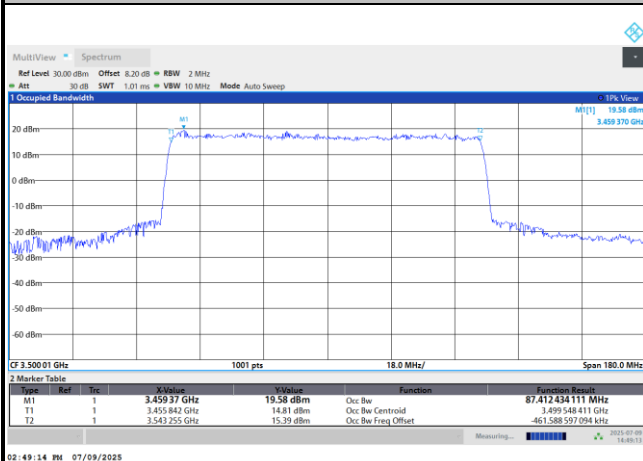
02:47:30 PM 07/09/2025

QPSK



02:47:56 PM 07/09/2025

16QAM



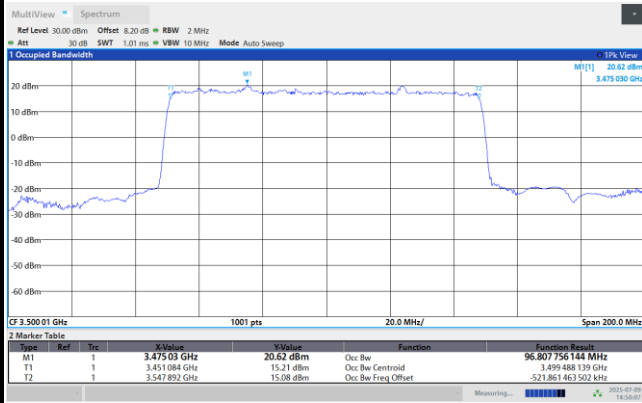
02:49:14 PM 07/09/2025



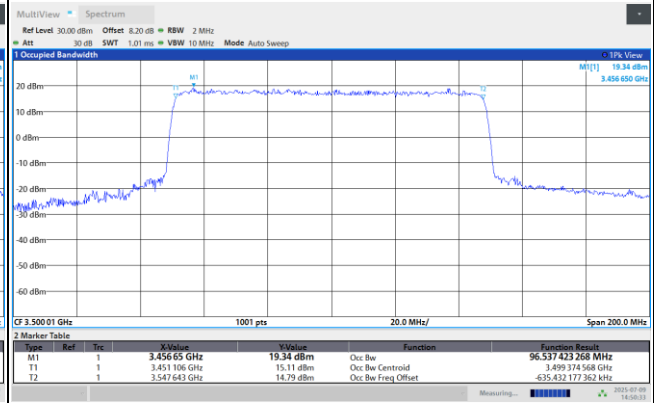
FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

QPSK

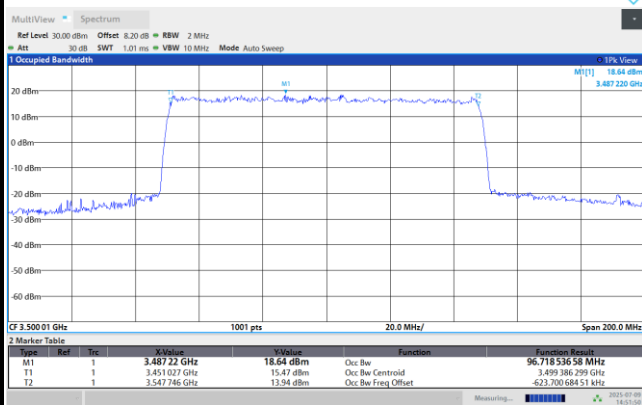


02:50:07 PM 07/09/2025



02:50:34 PM 07/09/2025

16QAM



02:51:51 PM 07/09/2025