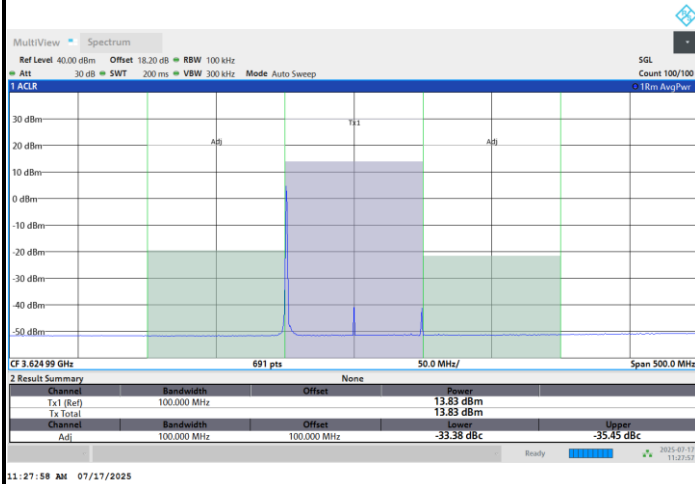




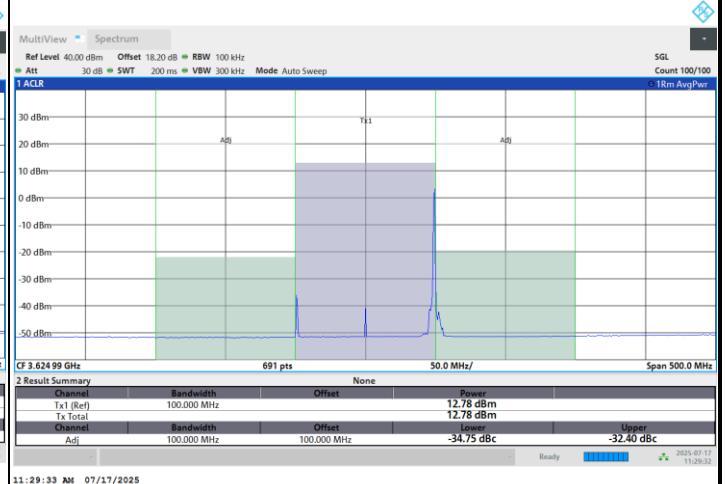
FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Middle Channel

1RB0



1RBmax



Full RB

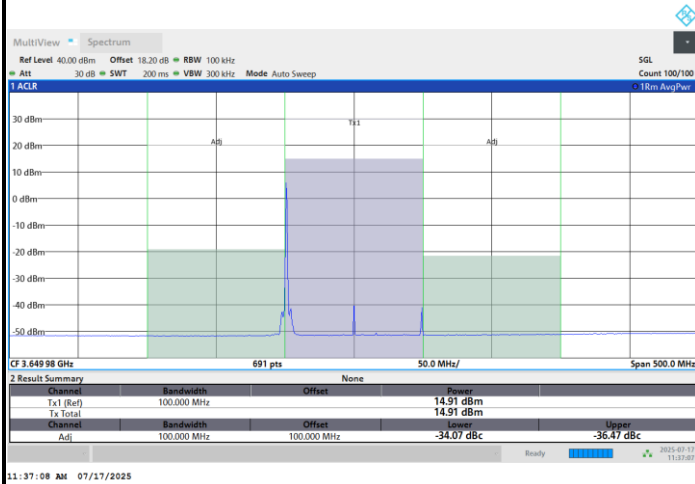




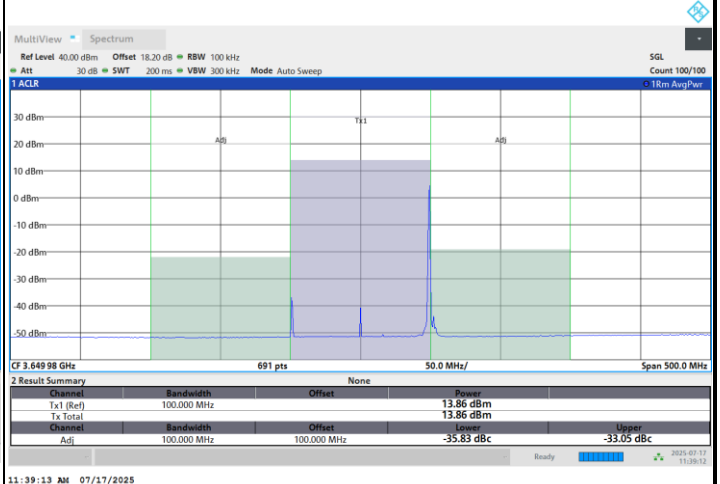
FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Highest Channel

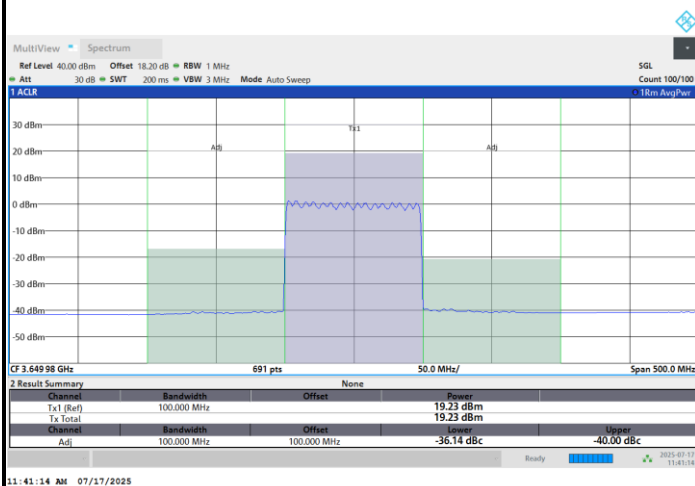
1RB0



1RBmax



Full RB

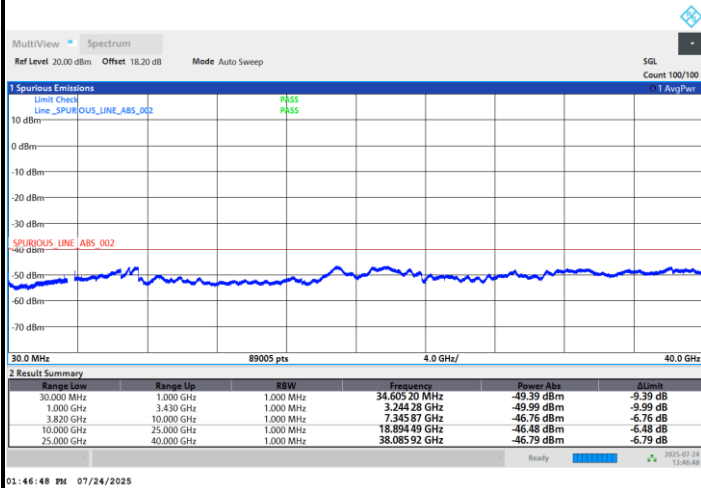




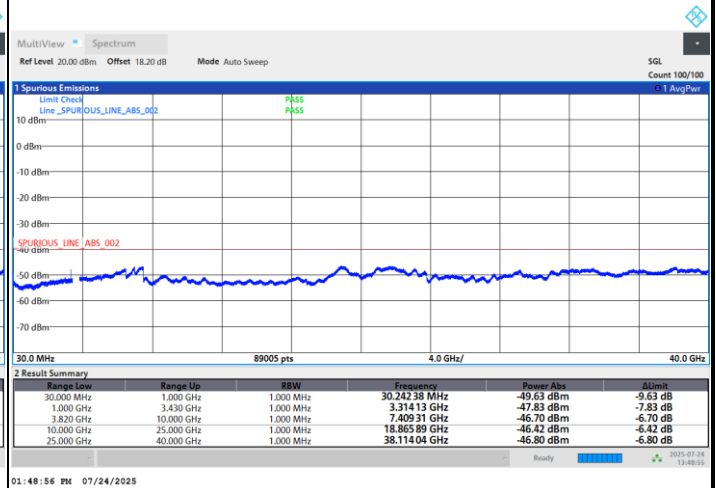
Conducted Spurious Emission

FR1 n77 Part96 / 10MHz / DFT-S OFDM / QPSK / 1RB1

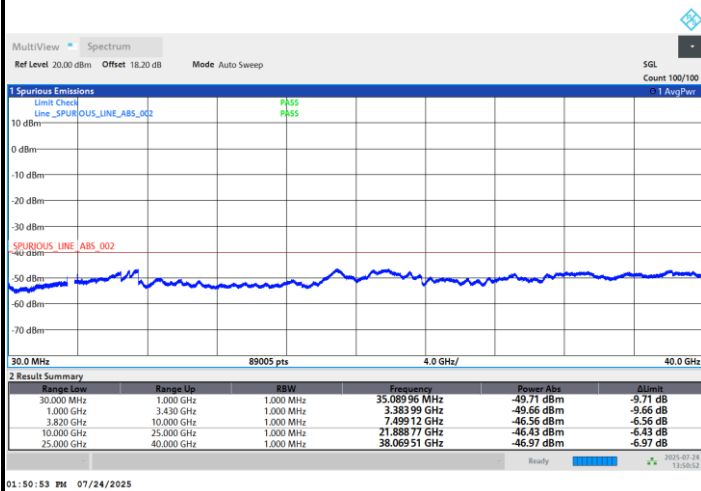
Lowest Channel



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	0.0018	6.7	Yes	PASS
40	Normal Voltage	0.0020	-7.2	Yes	
30	Normal Voltage	0.0025	9.1	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0018	6.6	Yes	
0	Normal Voltage	0.0002	0.9	Yes	
-10	Normal Voltage	0.0007	-2.7	Yes	
-20	Normal Voltage	0.0021	7.5	Yes	
-30	Normal Voltage	0.0008	2.9	Yes	
20	Maximum Voltage	0.0007	-2.7	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0009	3.1	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.

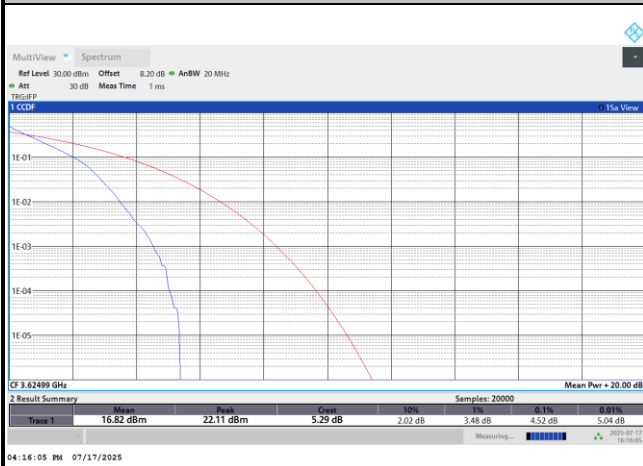
**FR1 n77_Part96****MIMO <Ant. 0+2> (Ant. 2)****Peak-to-Average Ratio**

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	4.52	5.64	6.20	6.24	PASS
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.62				PASS

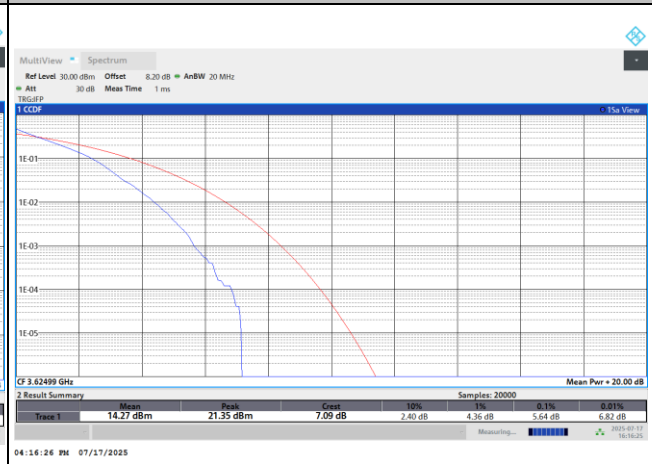


FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

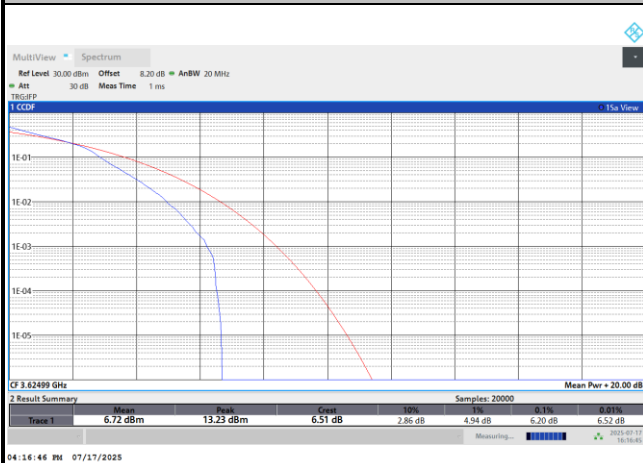
PI/2 BPSK



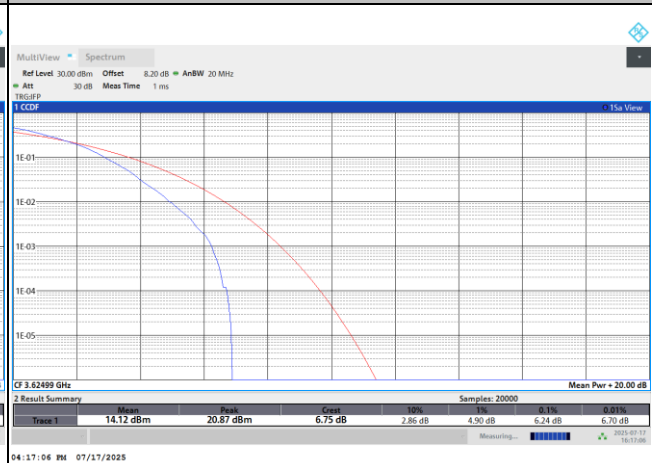
QPSK



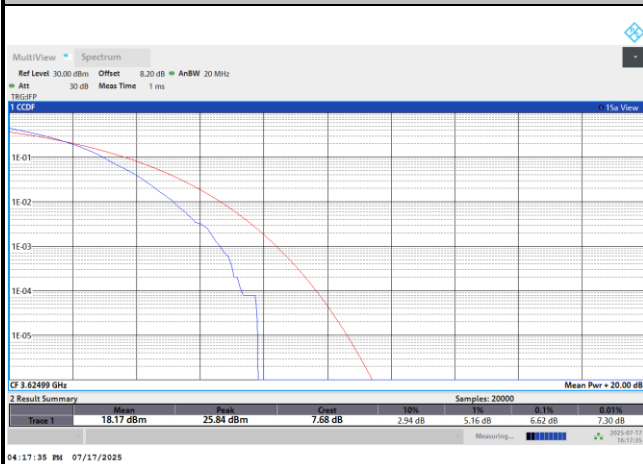
16QAM



64QAM



256QAM



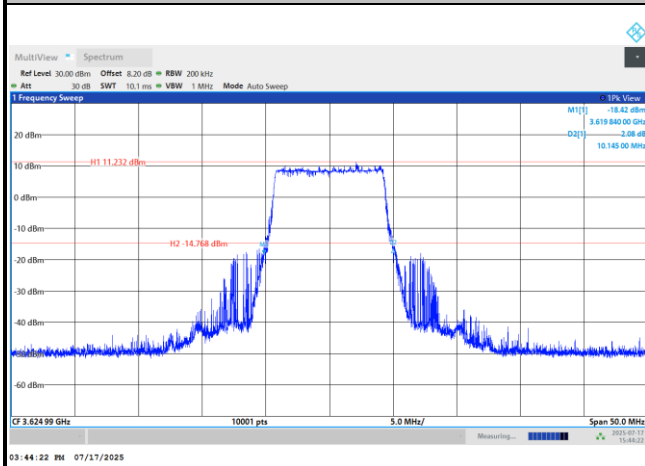
**26dB Bandwidth**

Mode	FR1 n77 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	10.14	10.13	14.52	14.48	21.60	20.00	30.23	30.66
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	10.29		14.59		21.87		30.78	
BW	40MHz		50MHz		60MHz		70MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	40.07	39.77	50.02	48.71	62.79	63.43	69.70	69.27
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	38.74		49.67		63.25		69.46	
BW	80MHz		90MHz		100MHz			
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Middle CH	82.27	82.42	91.91	91.98	101.61	101.82		
Mod.	16QAM		16QAM		16QAM			
Middle CH	82.32		92.88		101.49			

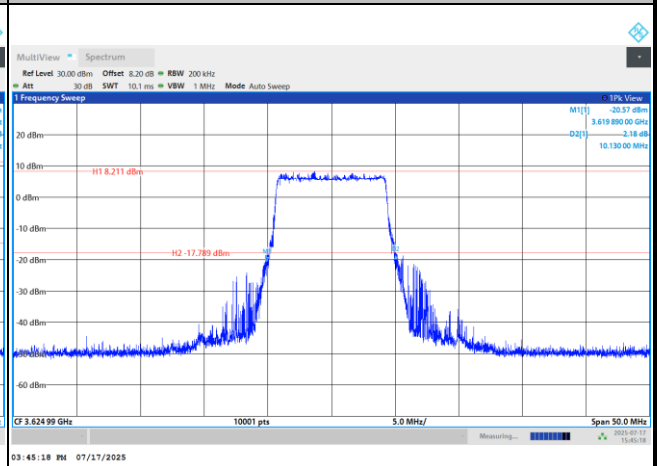


FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

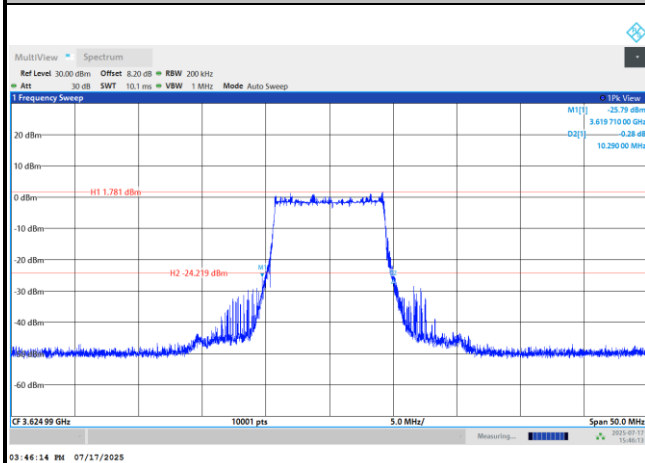
PI/2 BPSK



QPSK



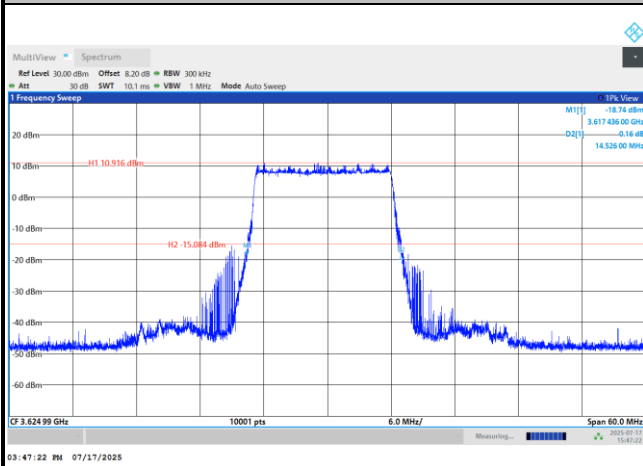
16QAM



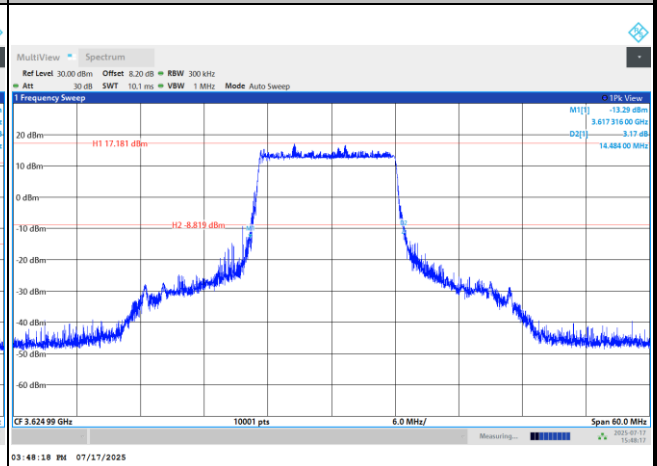


FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

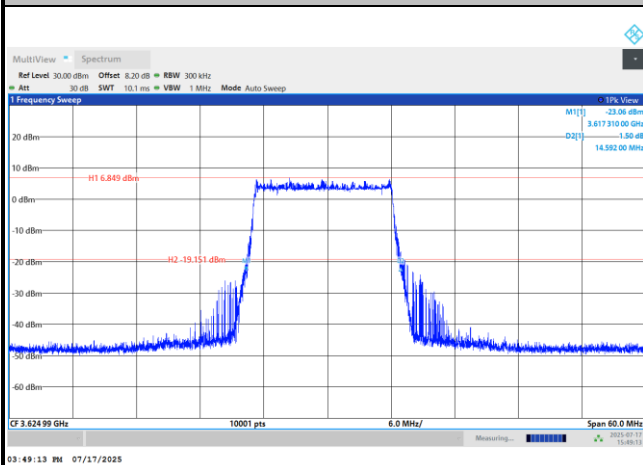
QPSK



QPSK



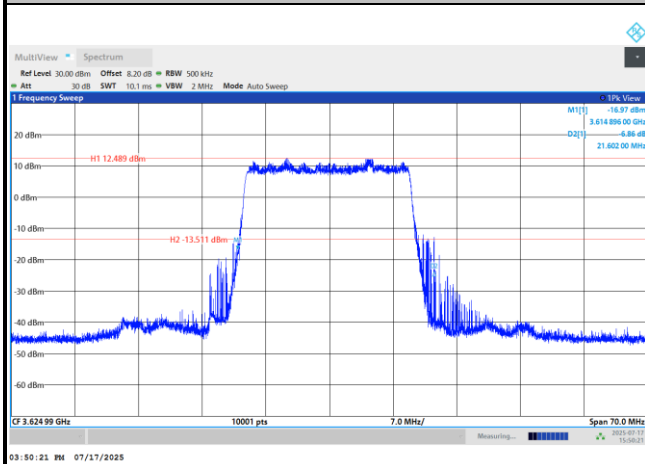
16QAM



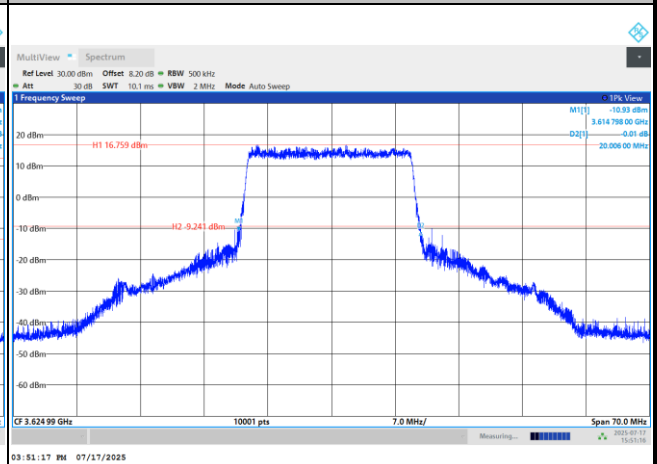


FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

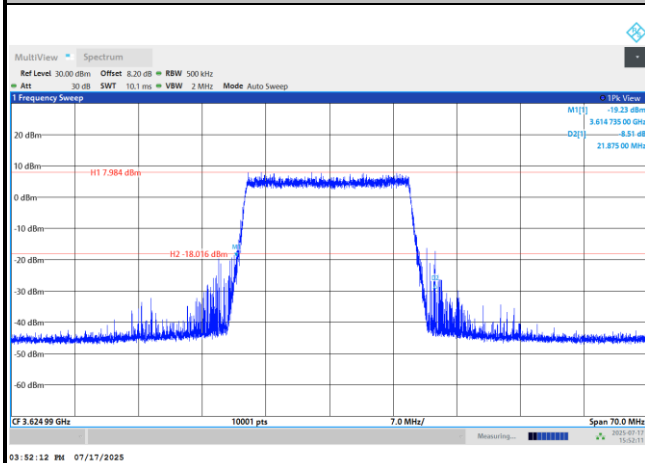
PI/2 BPSK



QPSK



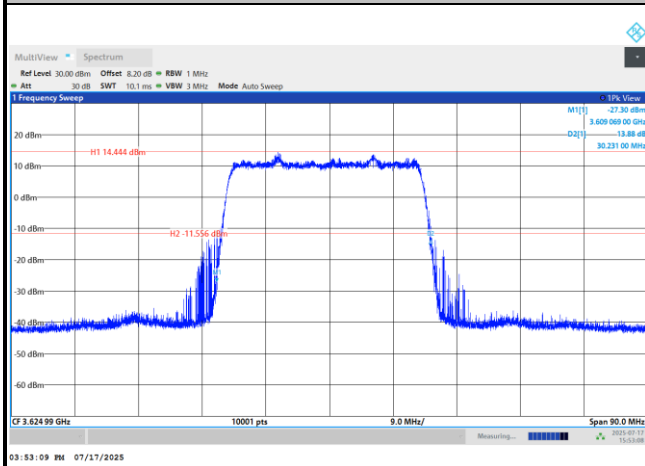
16QAM



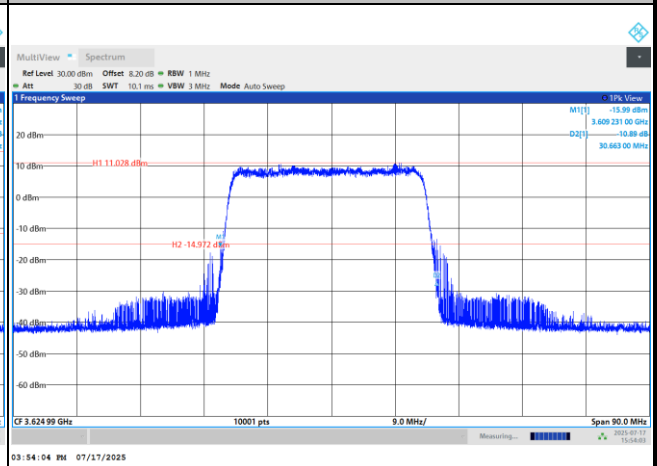


FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

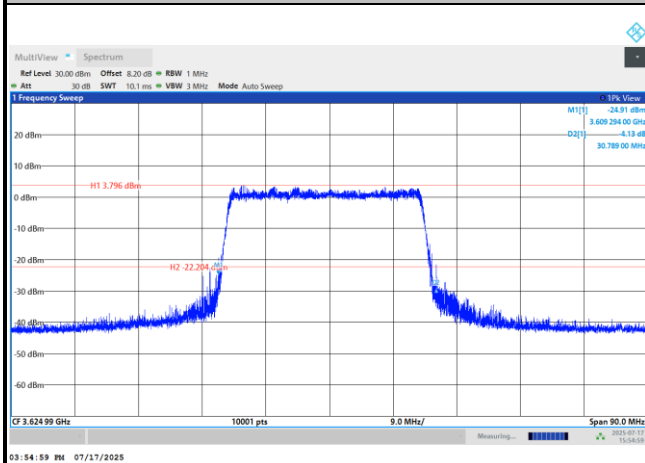
PI/2 BPSK



QPSK



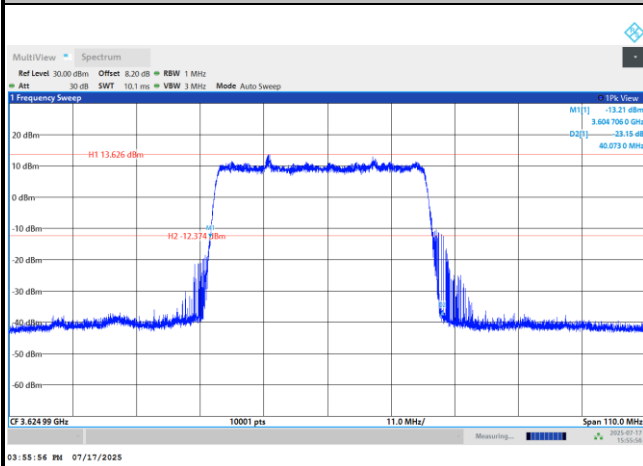
16QAM



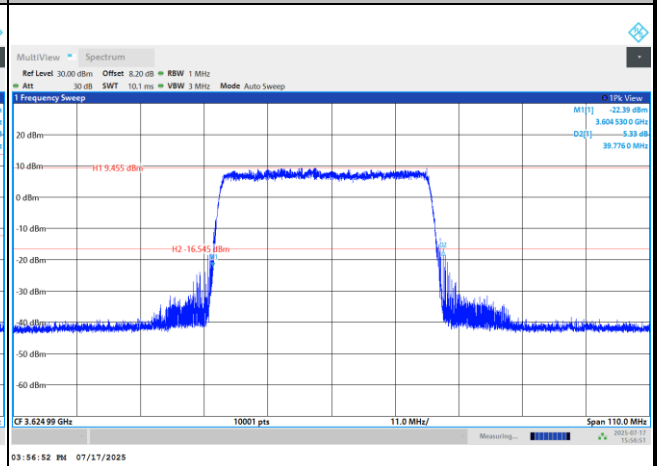


FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

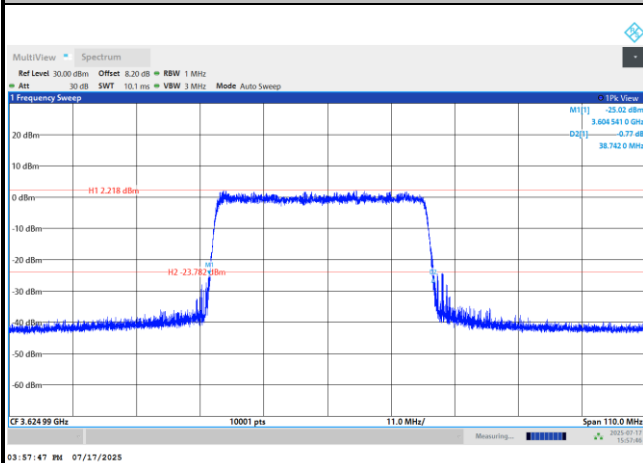
PI/2 BPSK



QPSK



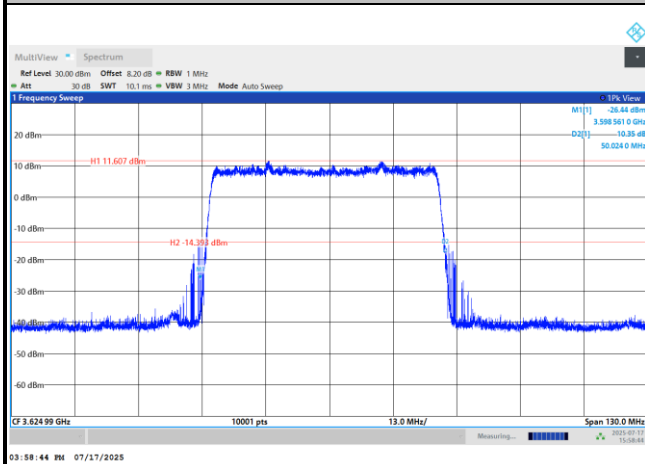
16QAM



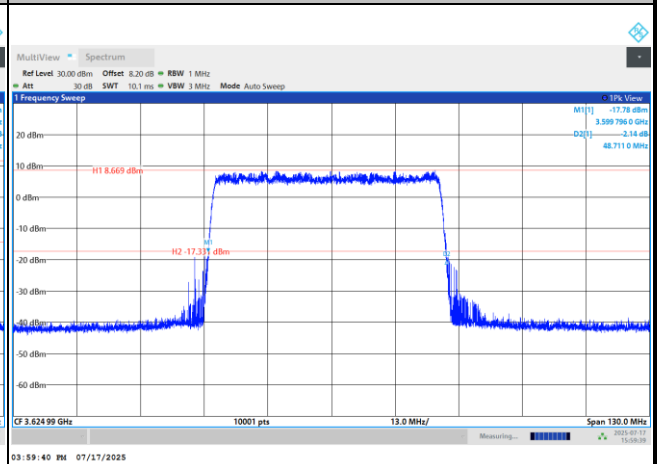


FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

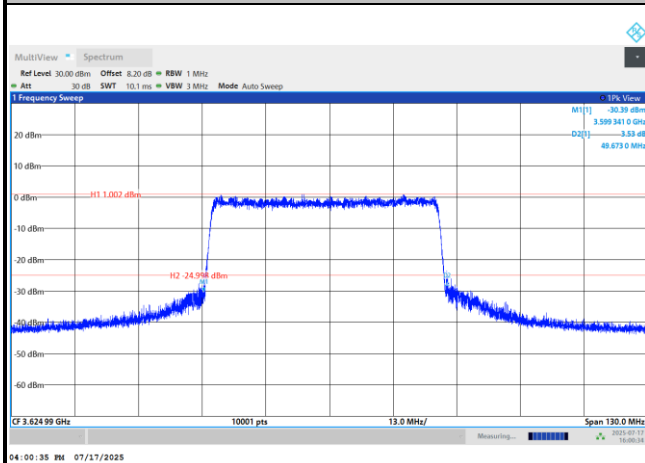
PI/2 BPSK



QPSK



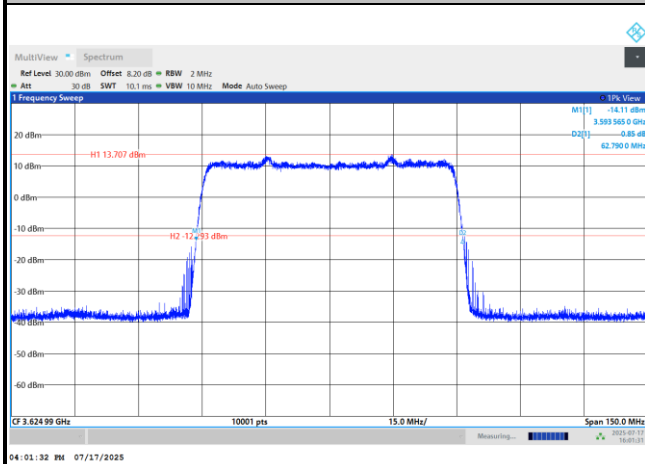
16QAM



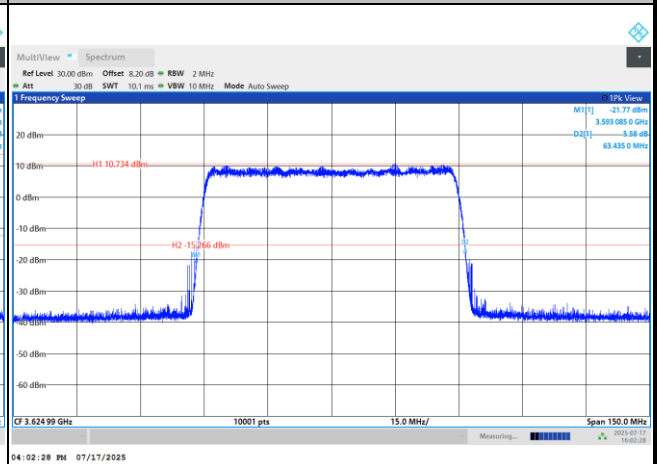


FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

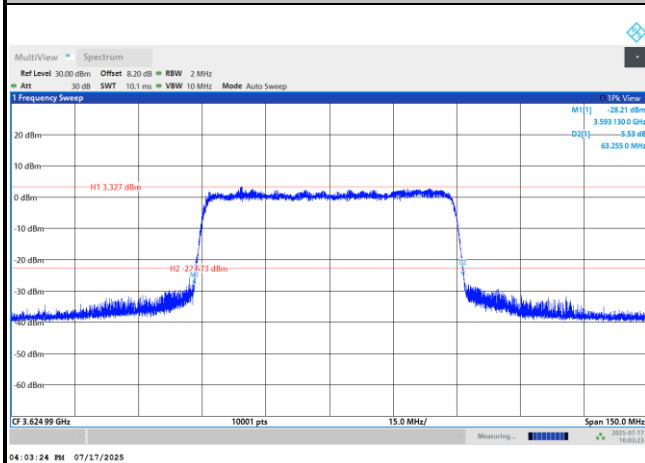
PI/2 BPSK



QPSK



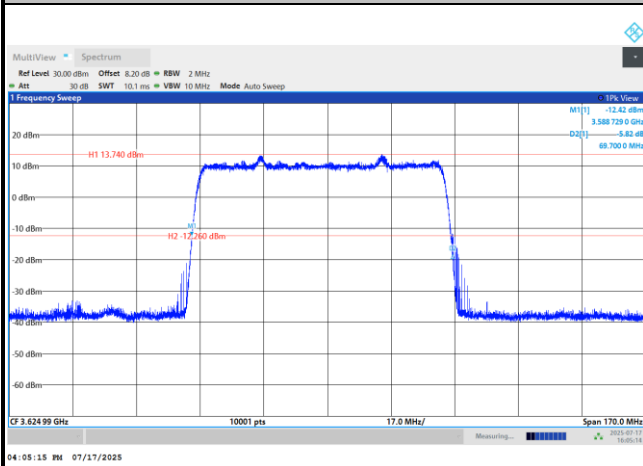
16QAM





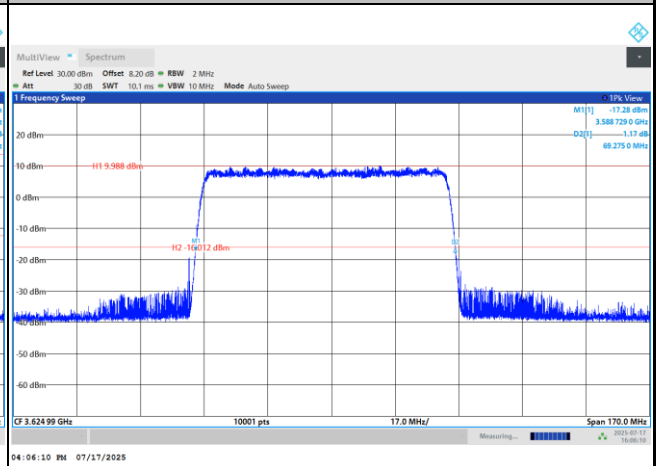
FR1 n77 / 70MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



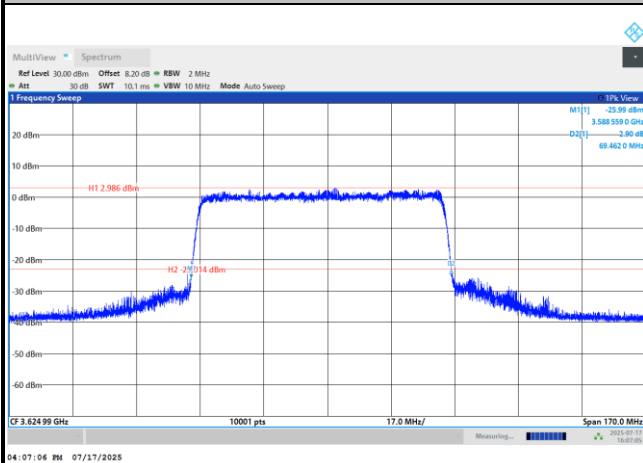
04:05:15 PM 07/17/2025

QPSK



04:06:10 PM 07/17/2025

16QAM

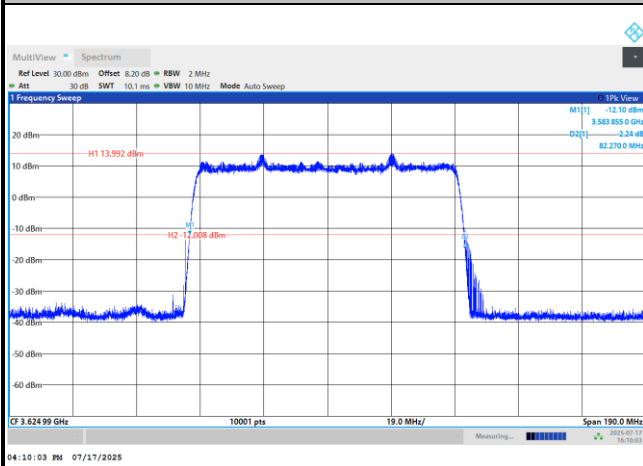


04:07:06 PM 07/17/2025



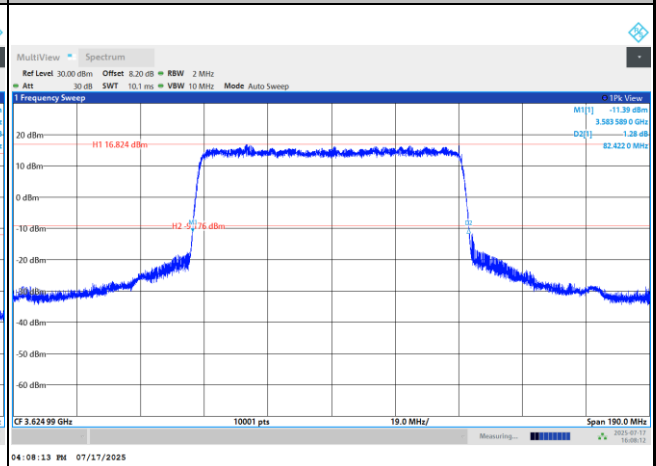
FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



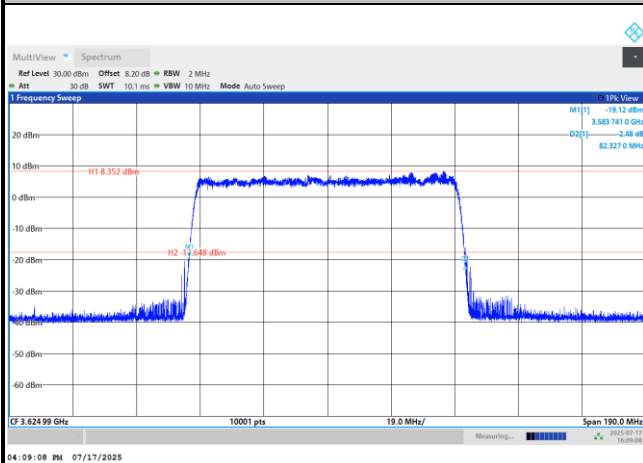
04:10:03 PM 07/17/2025

QPSK



04:08:13 PM 07/17/2025

16QAM

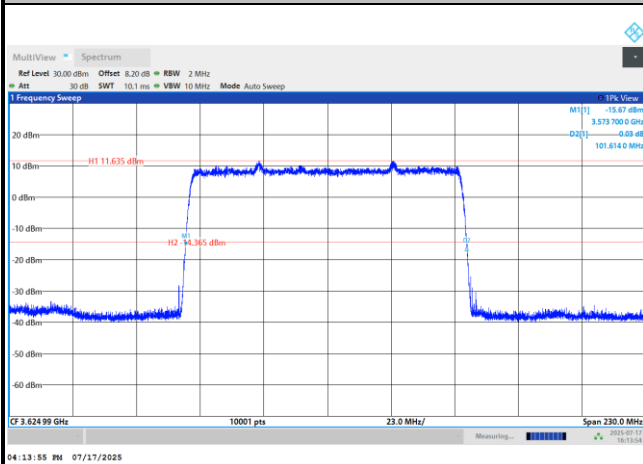


04:09:08 PM 07/17/2025



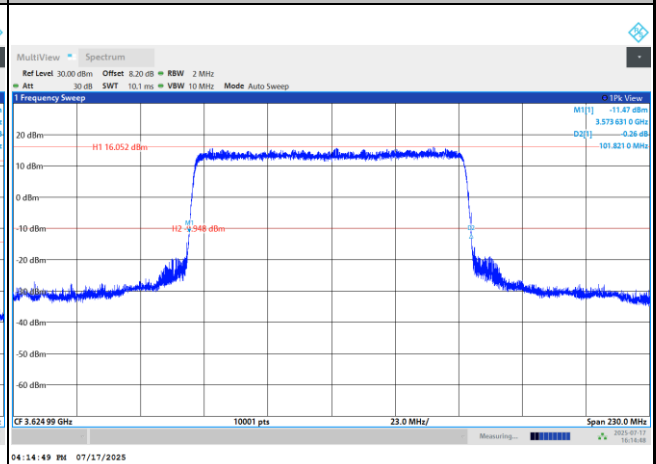
FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



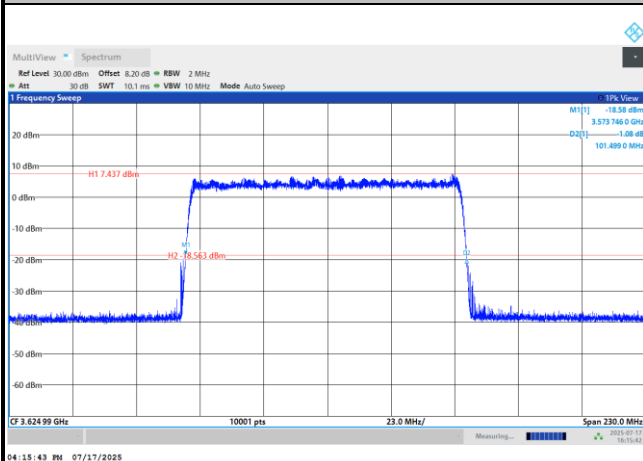
04:13:55 PM 07/17/2025

QPSK



04:14:49 PM 07/17/2025

16QAM



04:15:43 PM 07/17/2025

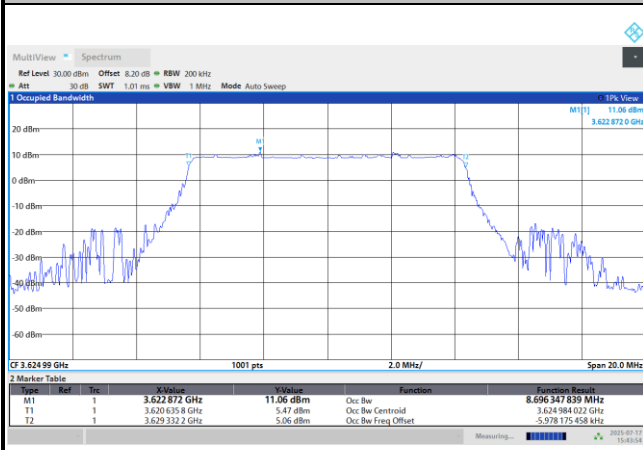
**Occupied Bandwidth**

Mode	FR1 n77 : 99%OBW(MHz) / DFT-S OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	8.69	8.67	12.97	12.95	18.01	18.08	27.19	27.22
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	8.71		13.03		18.10		27.28	
BW	40MHz		50MHz		60MHz		70MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	35.93	35.98	45.97	45.99	58.65	58.85	64.97	64.93
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	36.09		46.05		58.70		64.89	
BW	80MHz		90MHz		100MHz			
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Middle CH	77.59	77.74	87.07	87.24	96.82	96.57		
Mod.	16QAM		16QAM		16QAM			
Middle CH	77.70		87.55		96.82			

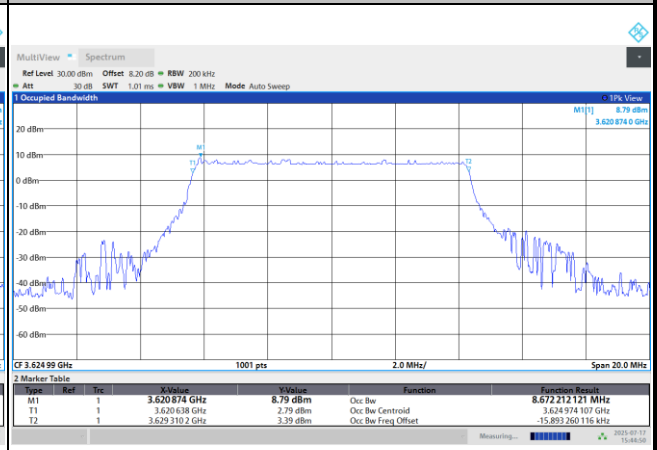


FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

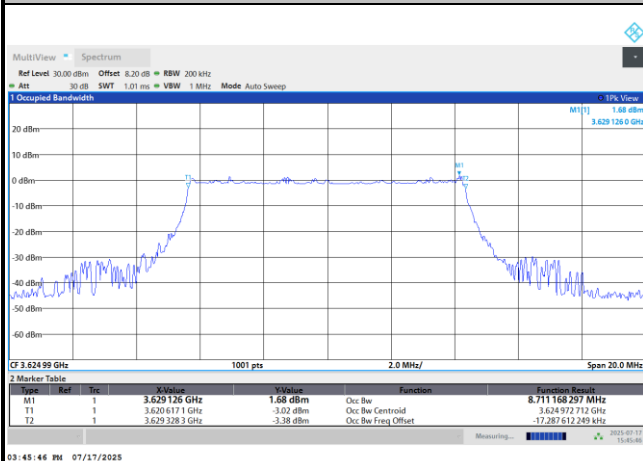
PI/2 BPSK



QPSK



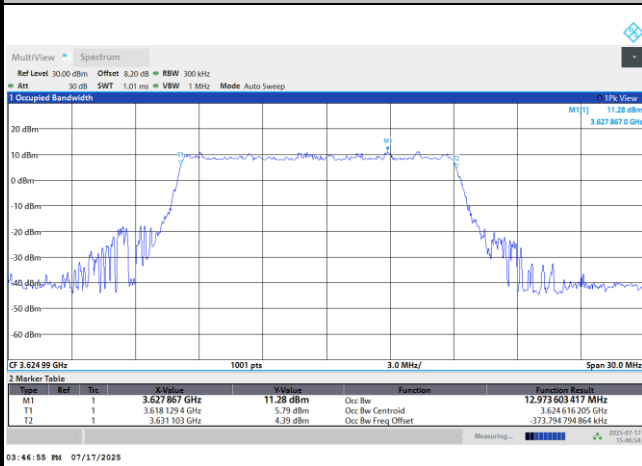
16QAM



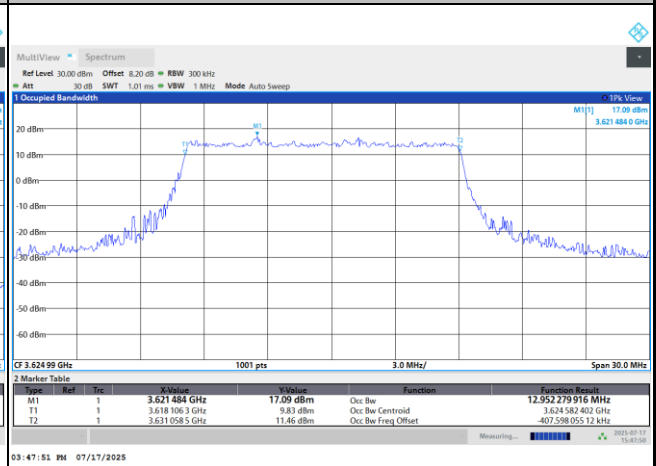


FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

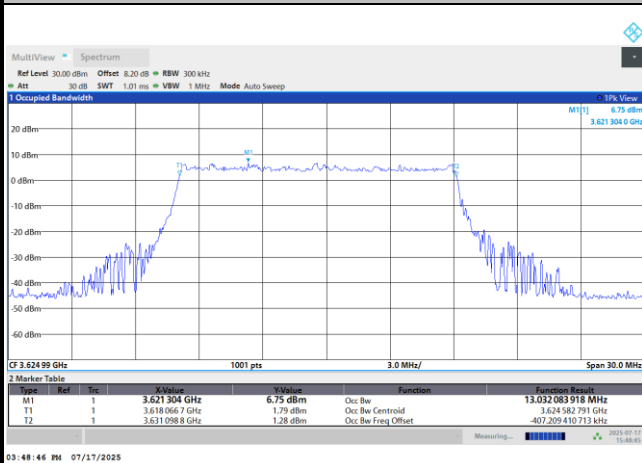
QPSK



QPSK



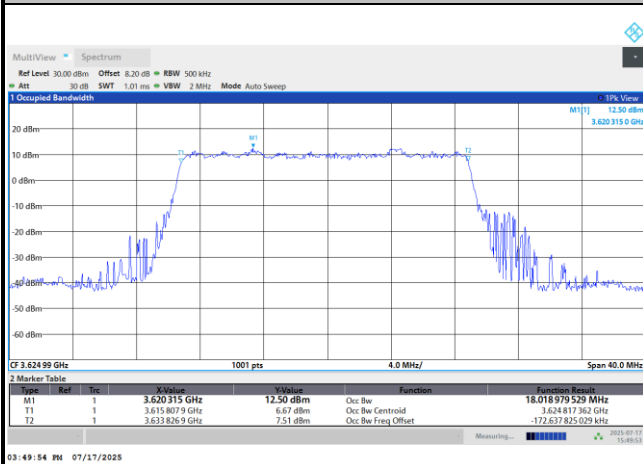
16QAM



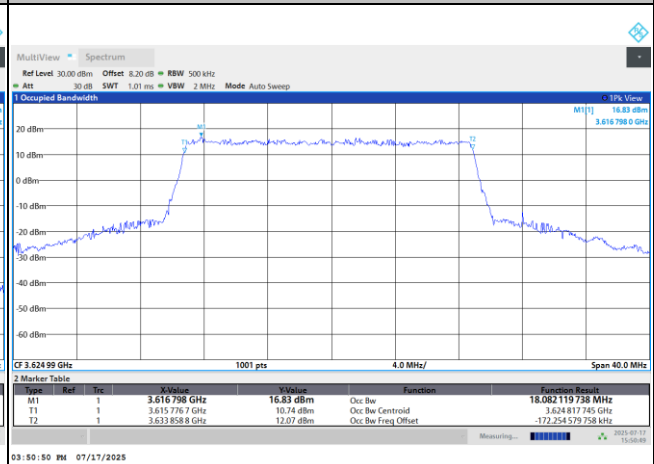


FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

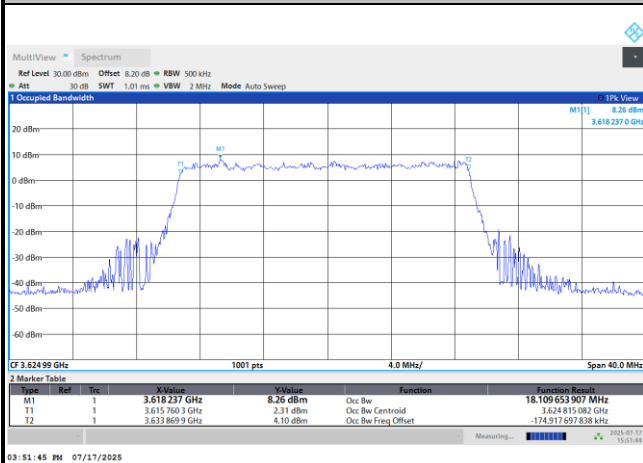
PI/2 BPSK



QPSK

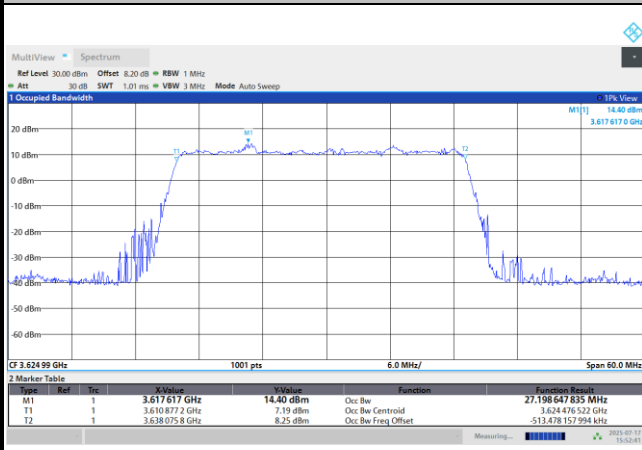


16QAM

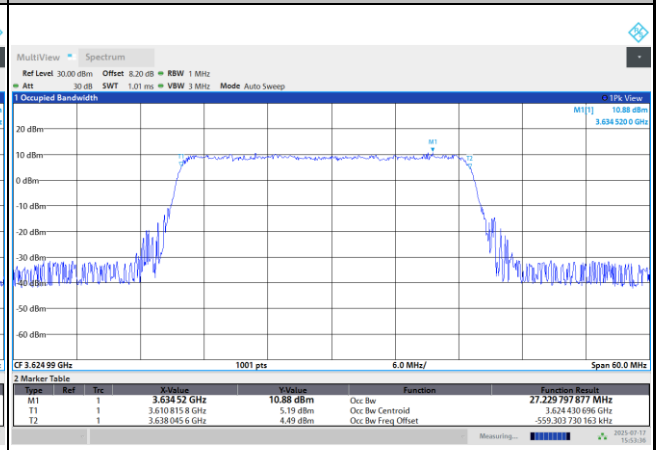


FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

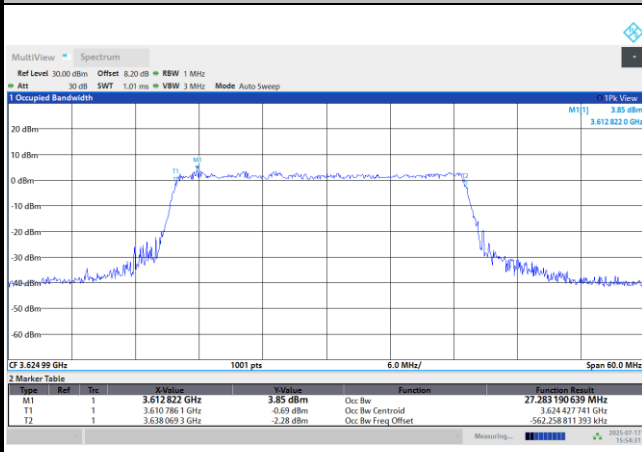
PI/2 BPSK



QPSK



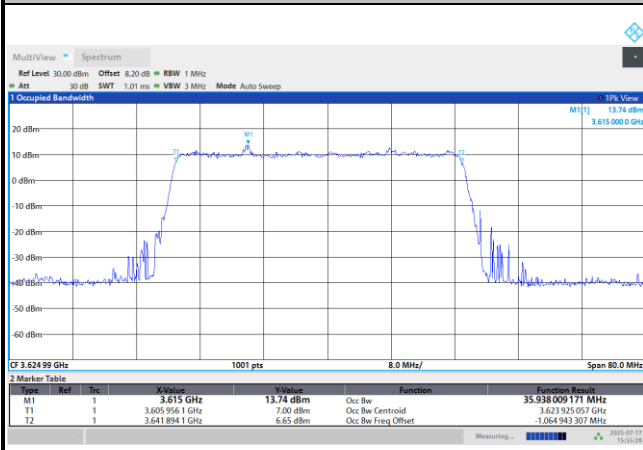
16QAM



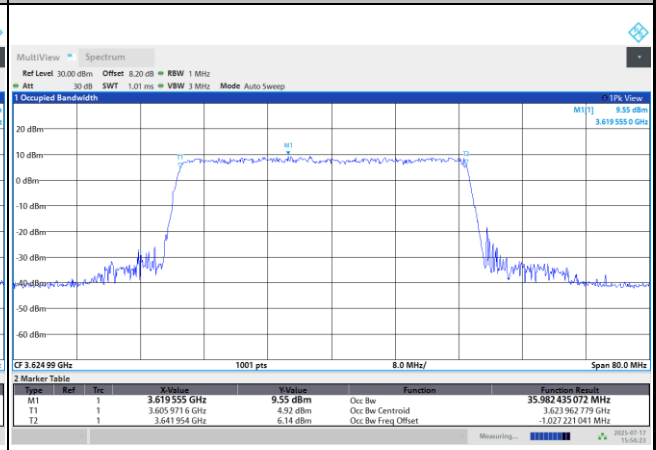


FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

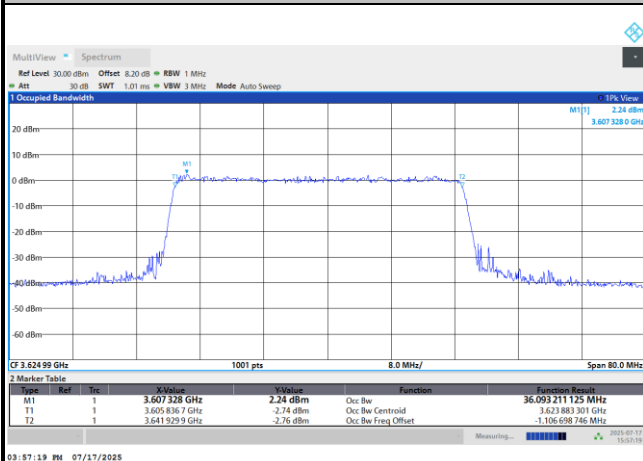
PI/2 BPSK



QPSK



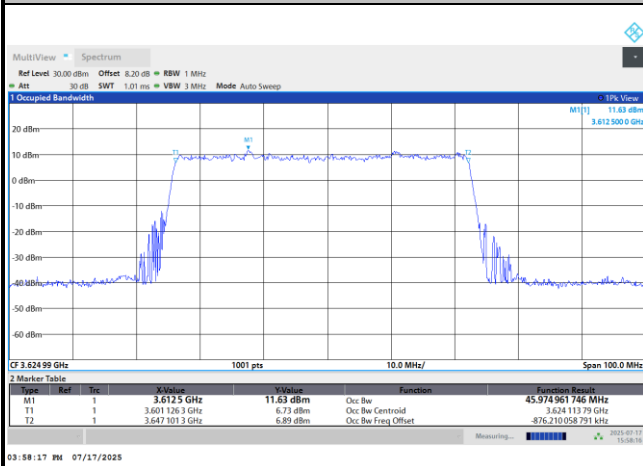
16QAM



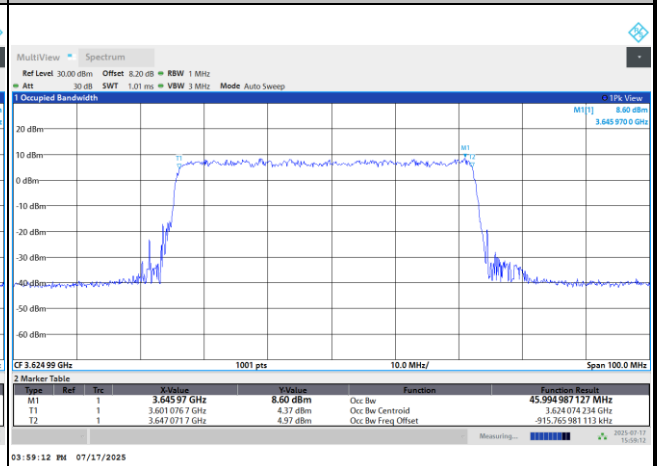


FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

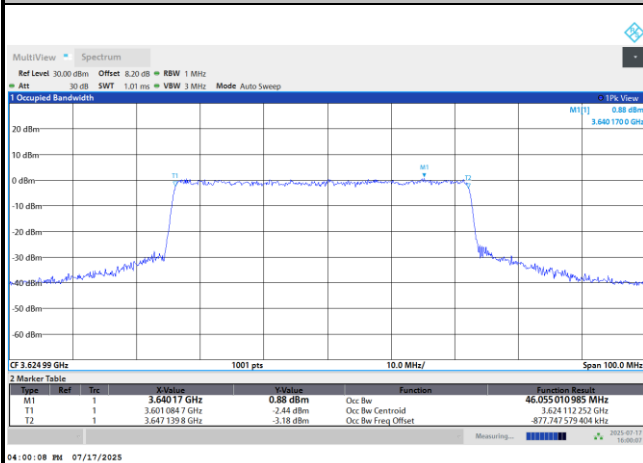
PI/2 BPSK



QPSK



16QAM

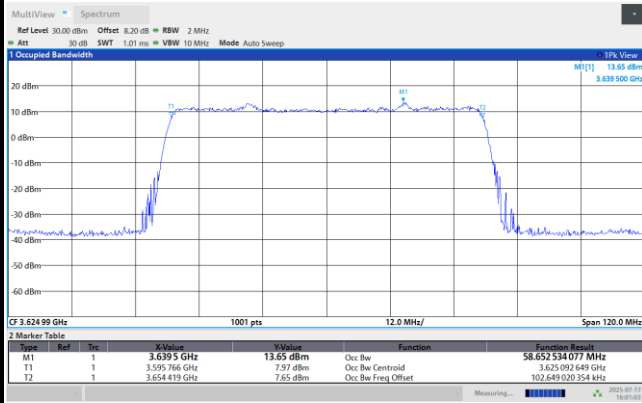




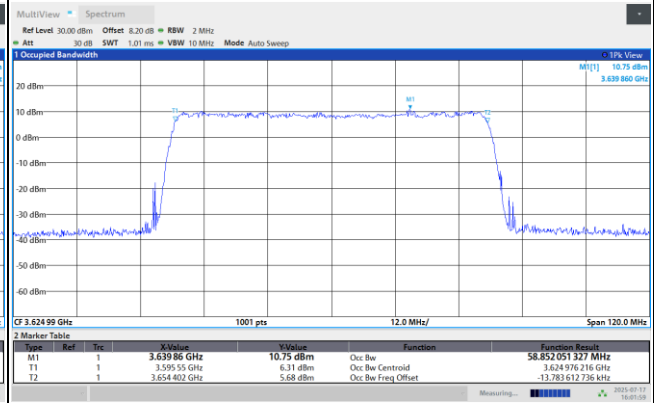
FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

QPSK

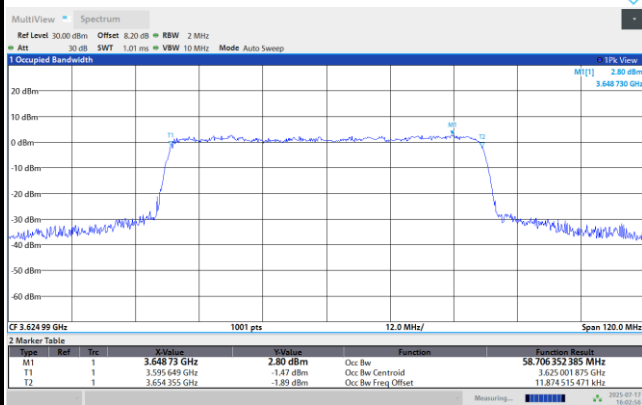


04:01:04 PM 07/17/2025



04:02:00 PM 07/17/2025

16QAM

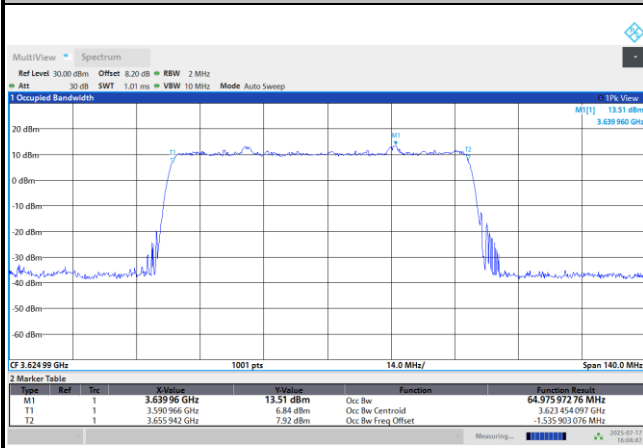


04:02:56 PM 07/17/2025



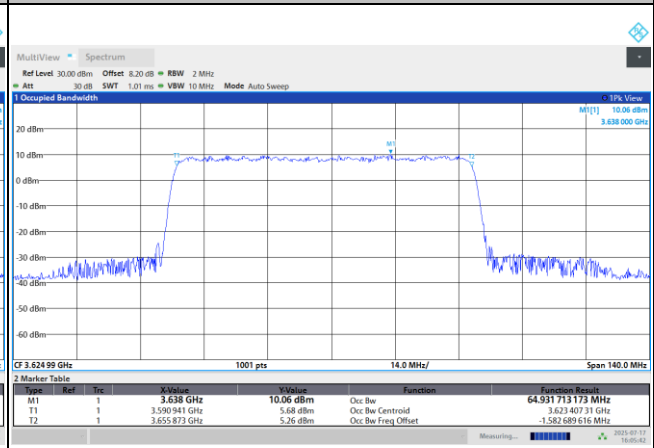
FR1 n77 / 70MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



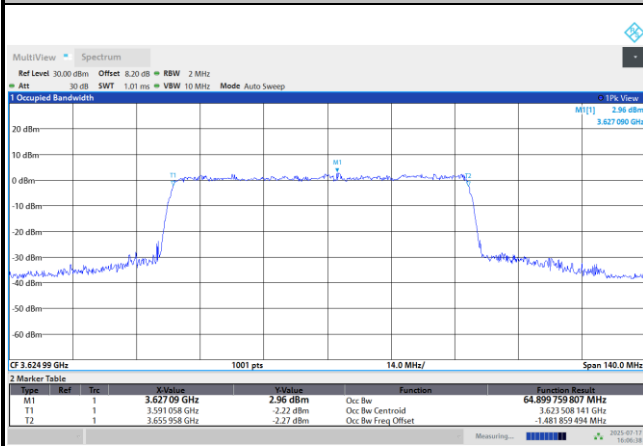
04:04:48 PM 07/17/2025

QPSK



04:05:43 PM 07/17/2025

16QAM

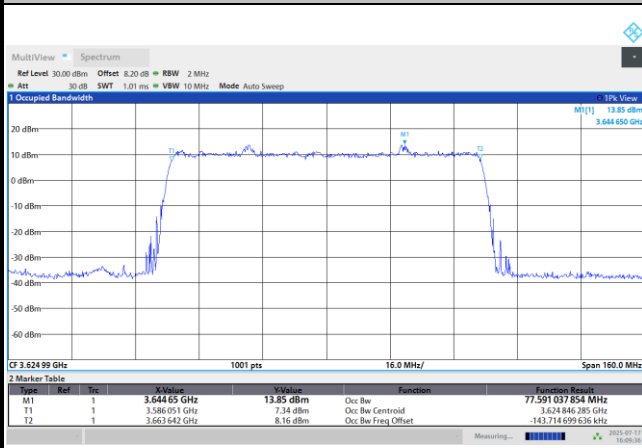


04:06:38 PM 07/17/2025



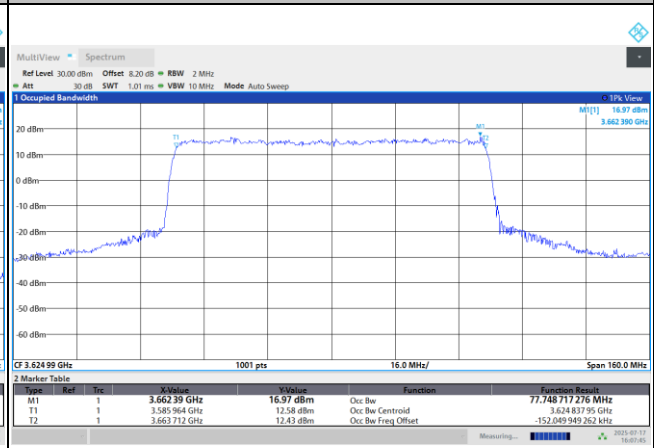
FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



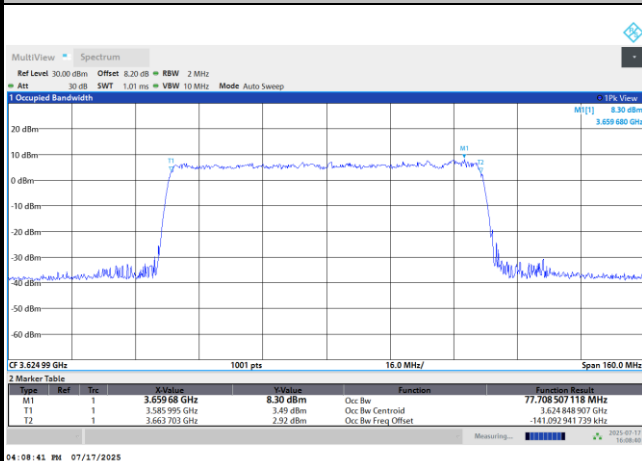
04:09:36 PM 07/17/2025

QPSK



04:07:46 PM 07/17/2025

16QAM

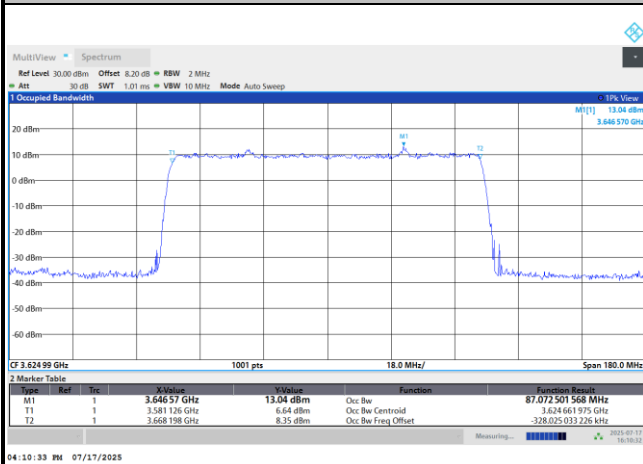


04:08:41 PM 07/17/2025



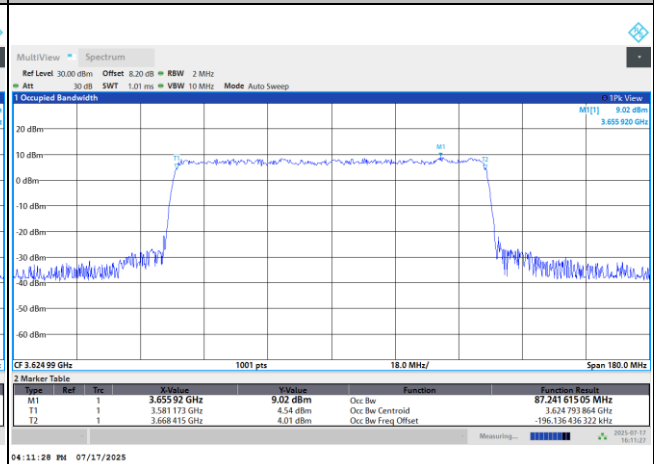
FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



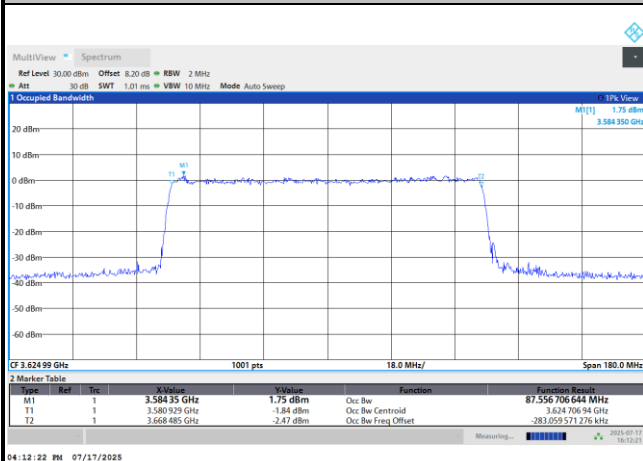
04:10:33 PM 07/17/2025

QPSK



04:11:28 PM 07/17/2025

16QAM

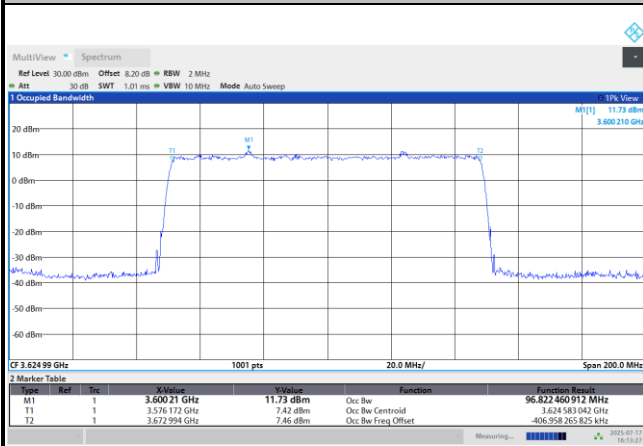


04:12:22 PM 07/17/2025



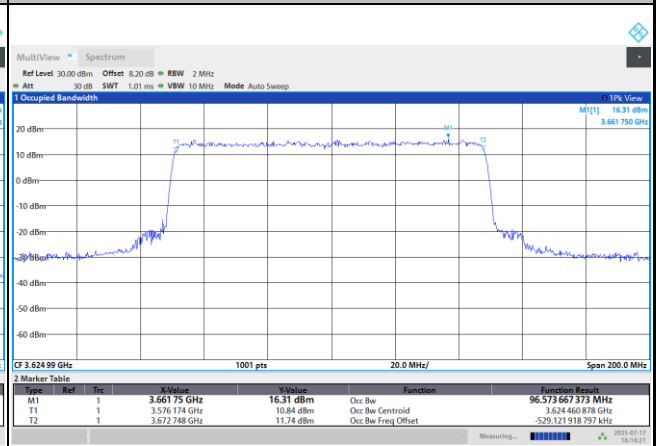
FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



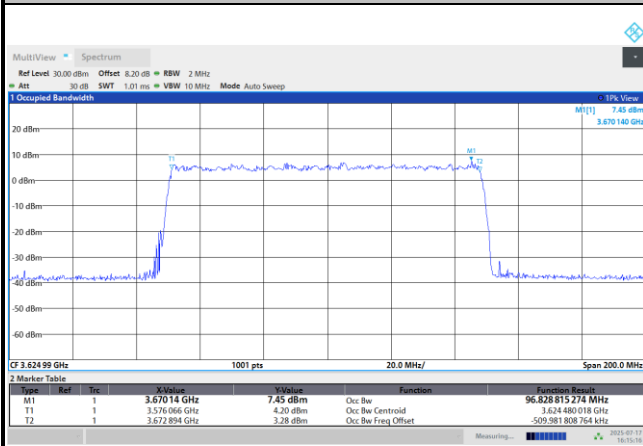
04:13:28 PM 07/17/2025

QPSK



04:14:22 PM 07/17/2025

16QAM



04:15:16 PM 07/17/2025



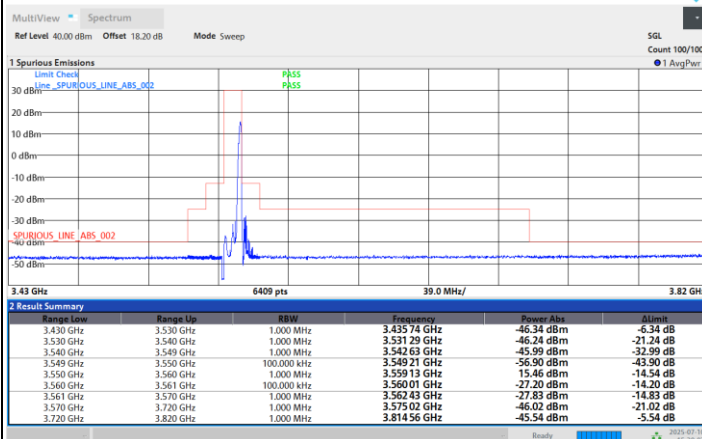
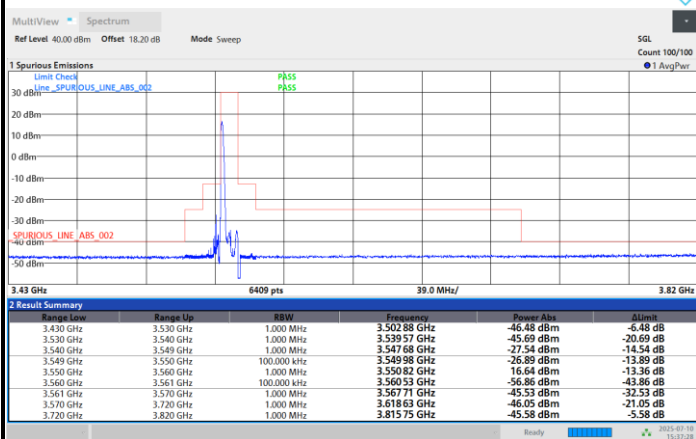
Unwanted Emission (MASK)

FR1 n77 Part96 / 10MHz / DFT-S OFDM / PI/2 BPSK

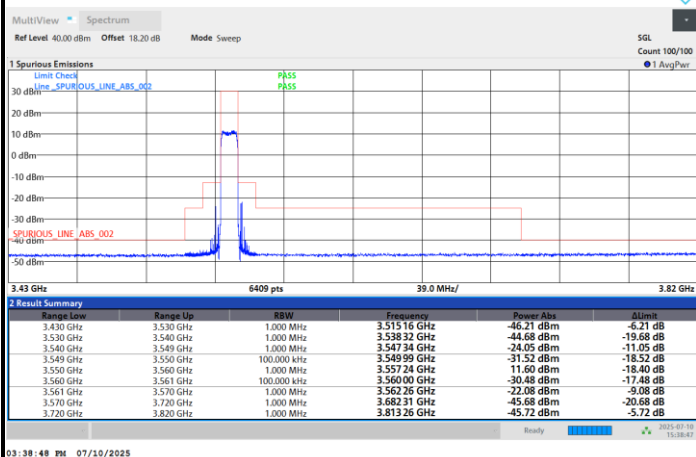
Lowest Channel

1RB0

1RBmax



Full RB

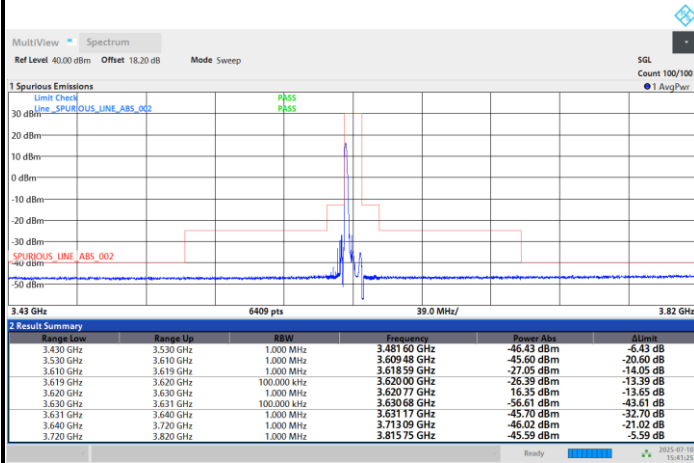




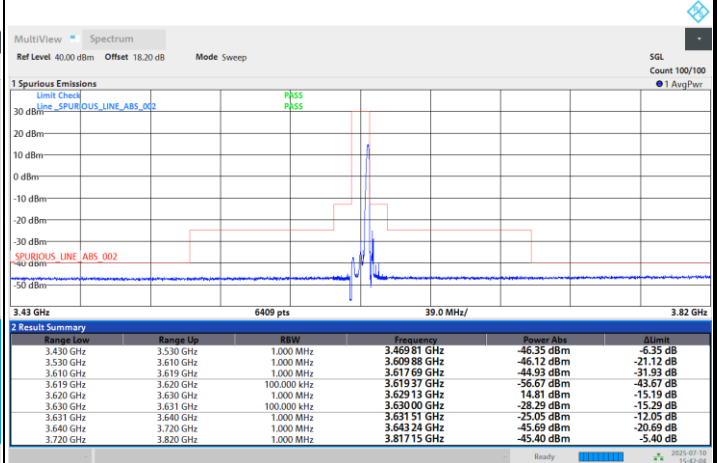
FR1 n77 Part96 / 10MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

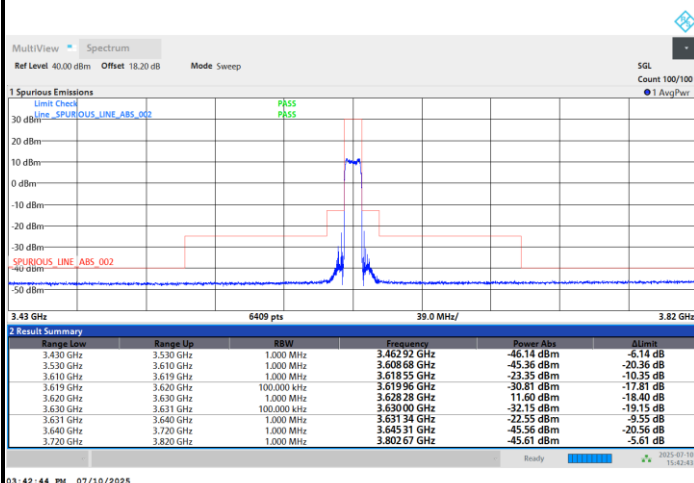
1RB0



1RBmax



Full RB

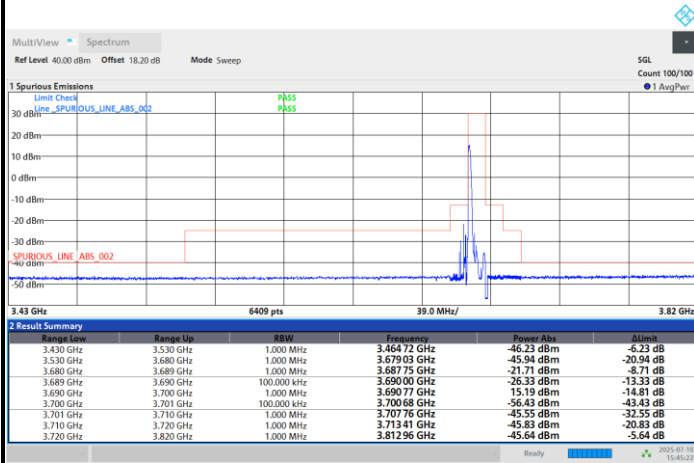




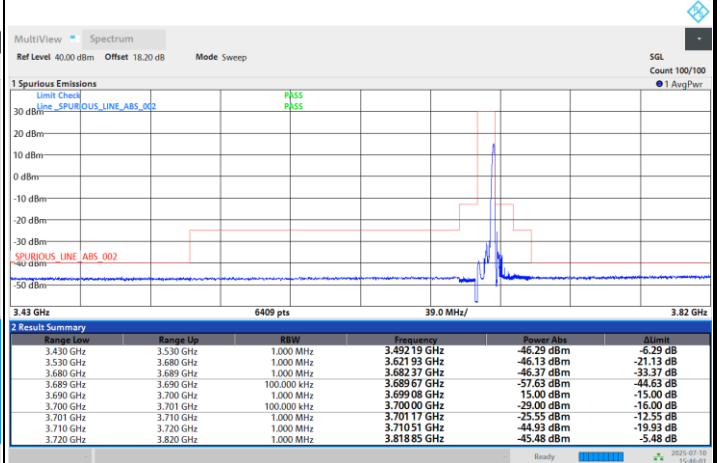
FR1 n77 Part96 / 10MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

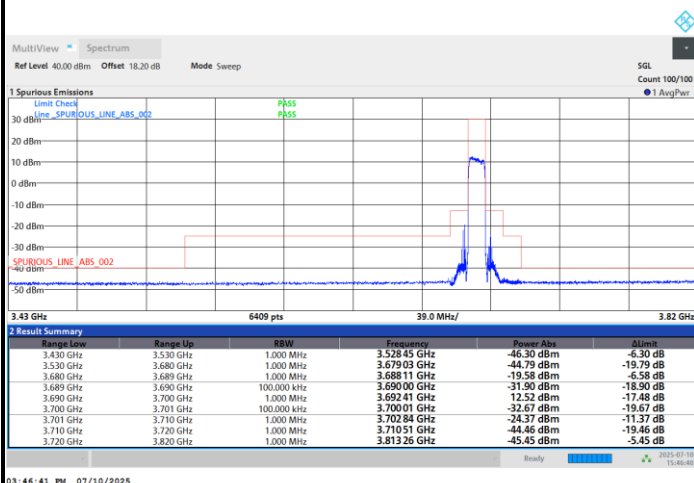
1RB0



1RBmax



Full RB

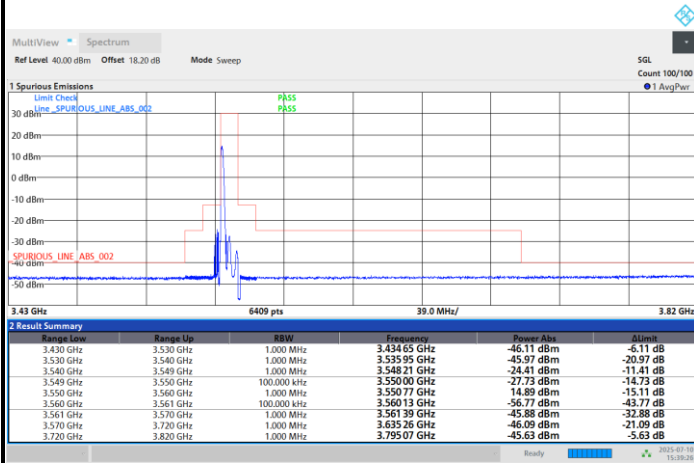




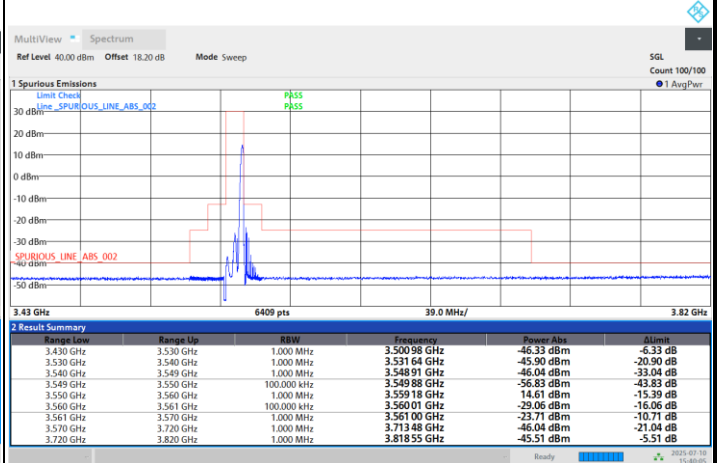
FR1 n77 Part96 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel

1RB0



1RBmax



Full RB

