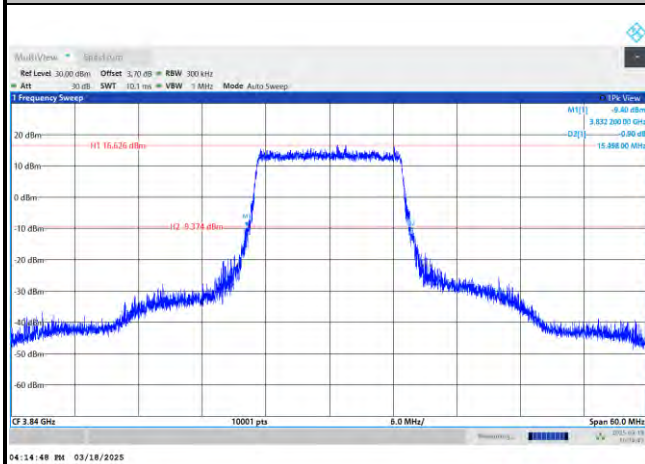


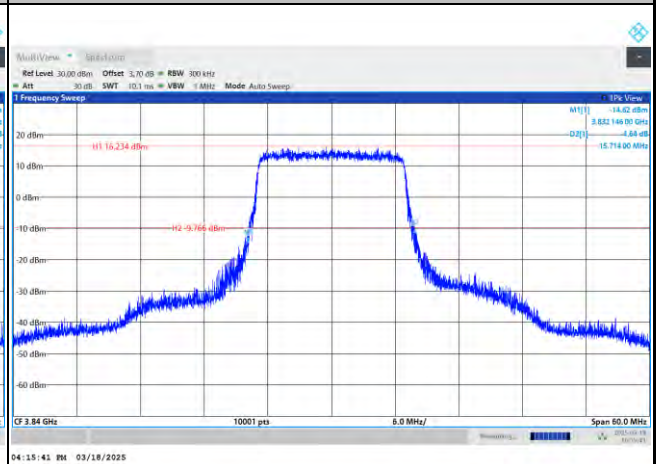


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

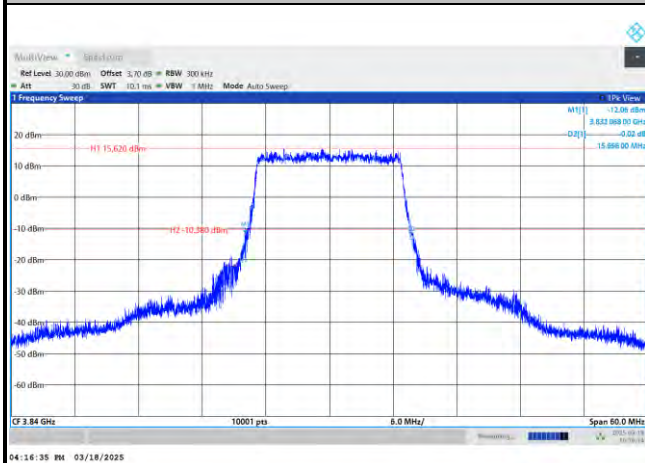
QPSK



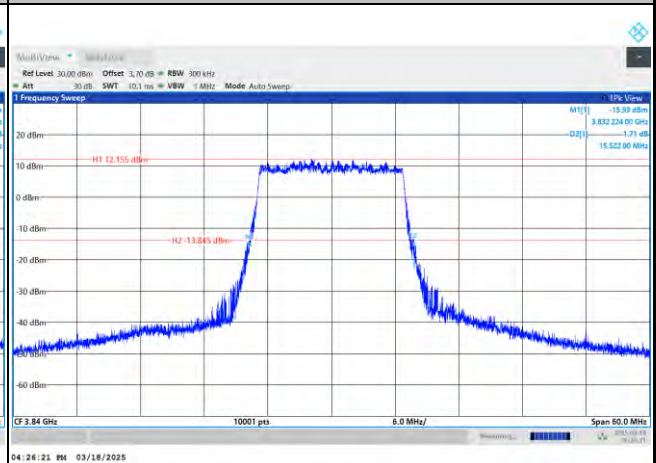
16QAM



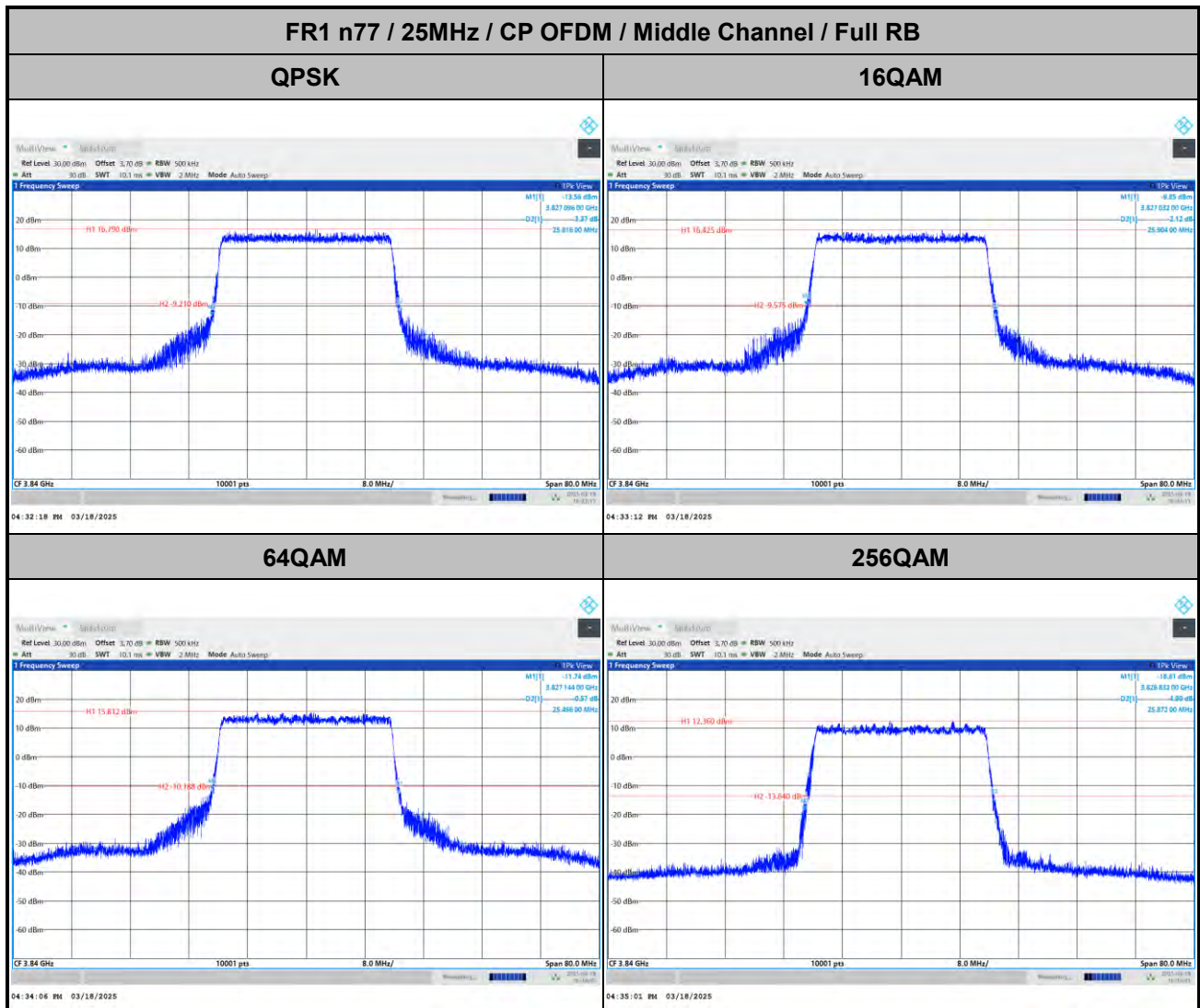
64QAM



256QAM



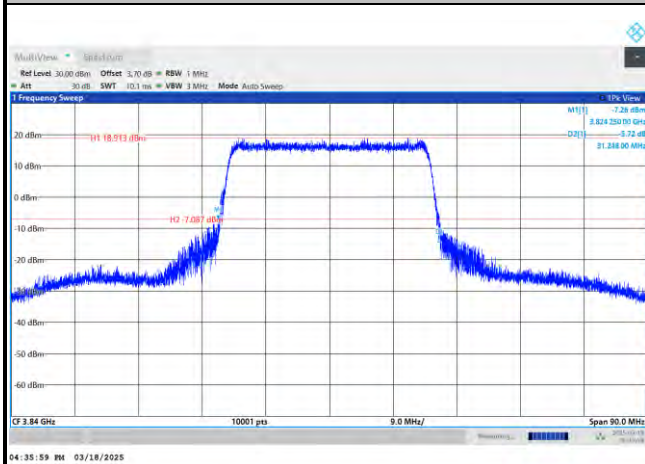




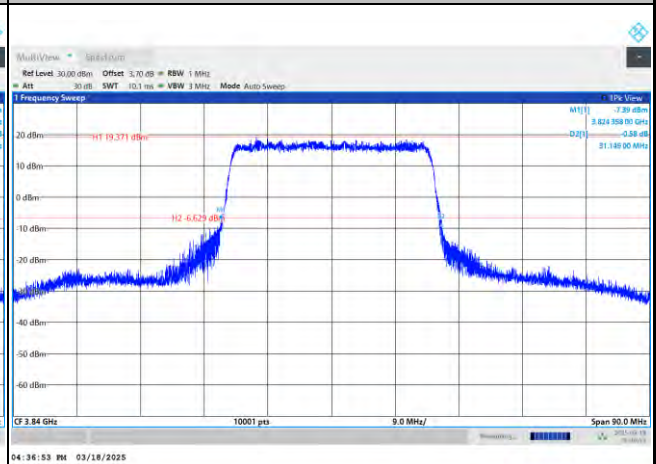


FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

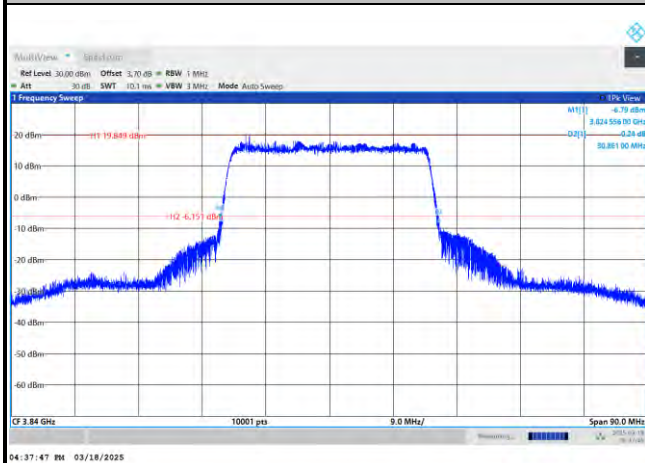
QPSK



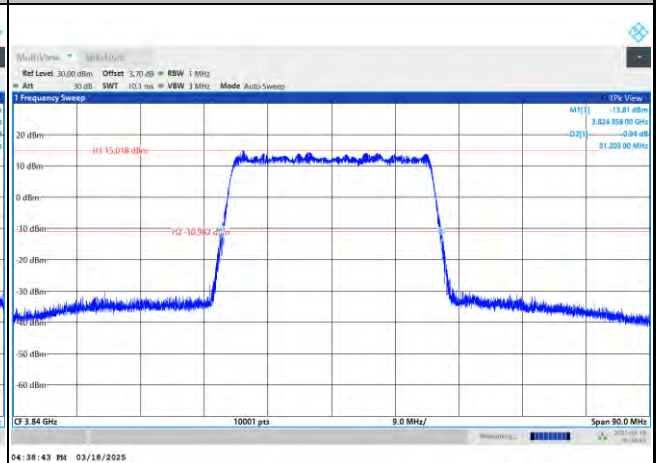
16QAM



64QAM



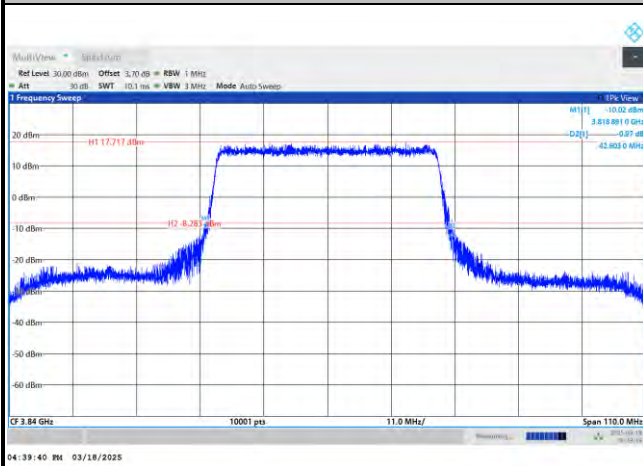
256QAM



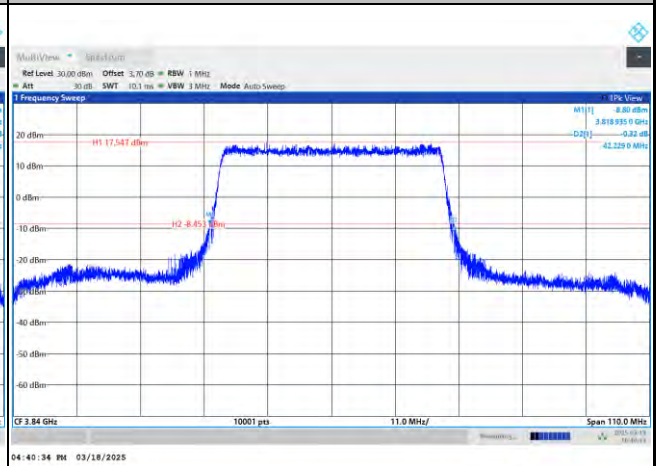


FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

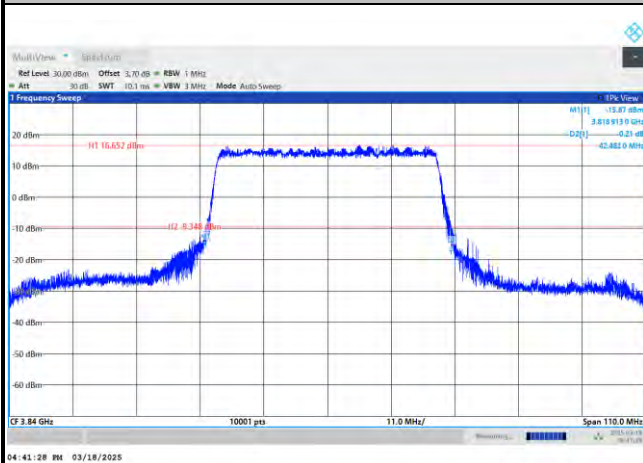
QPSK



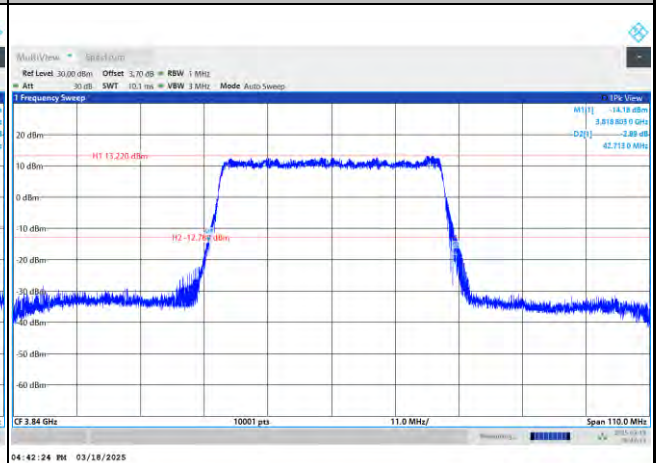
16QAM



64QAM



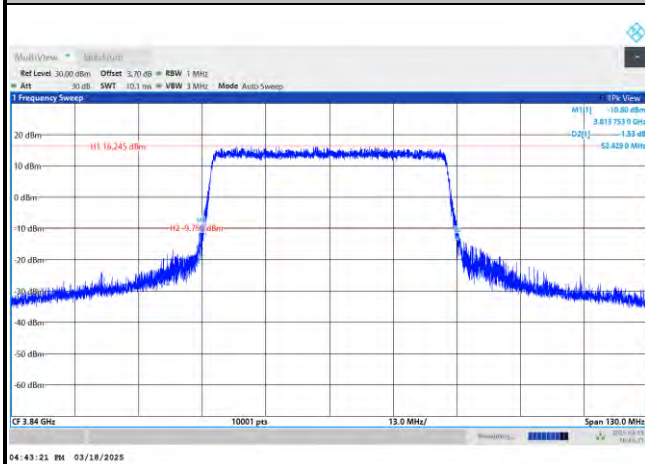
256QAM



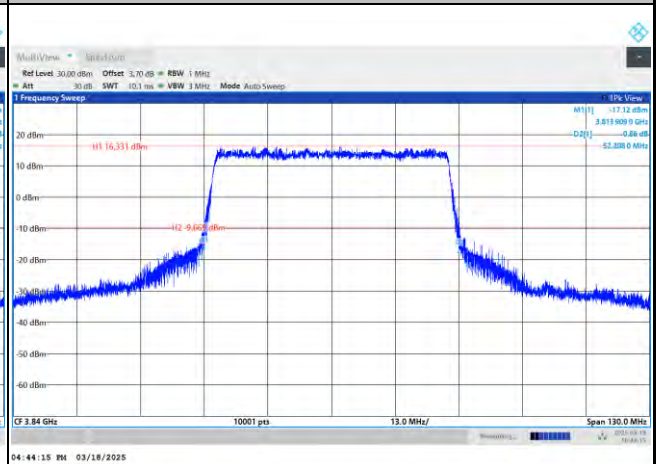


FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

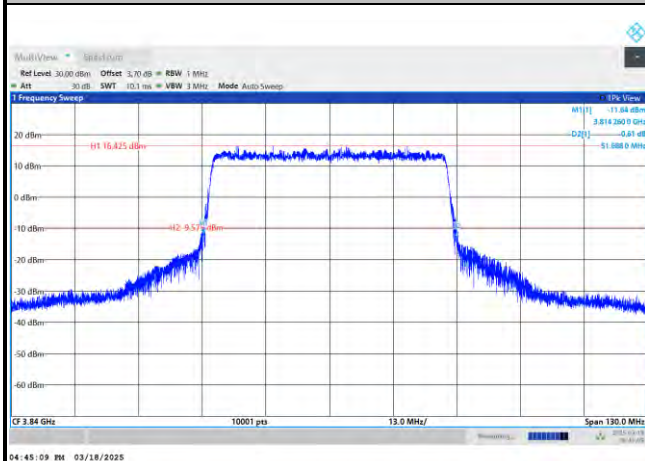
QPSK



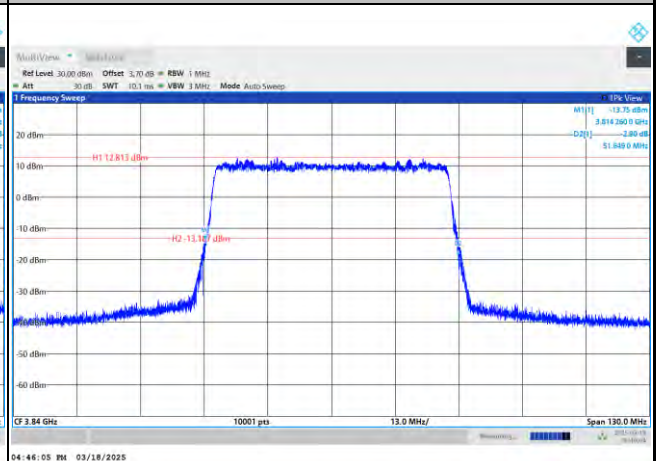
16QAM



64QAM



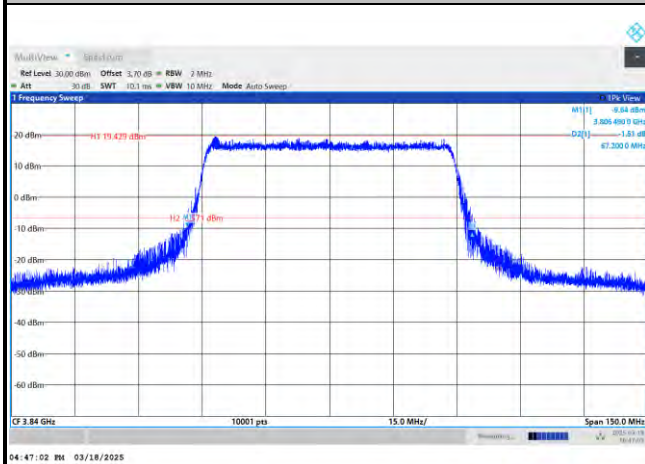
256QAM



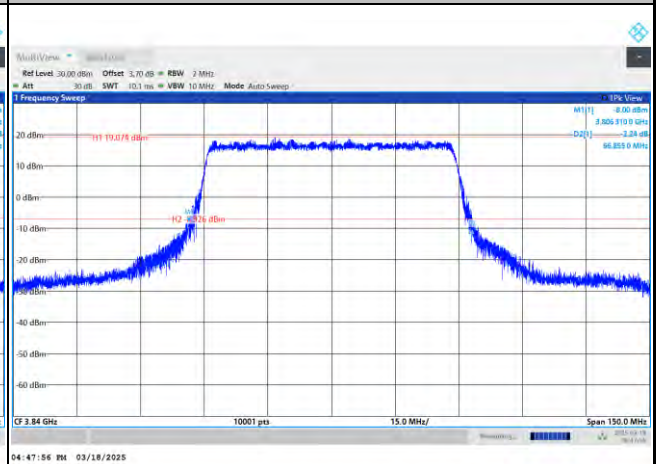


FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

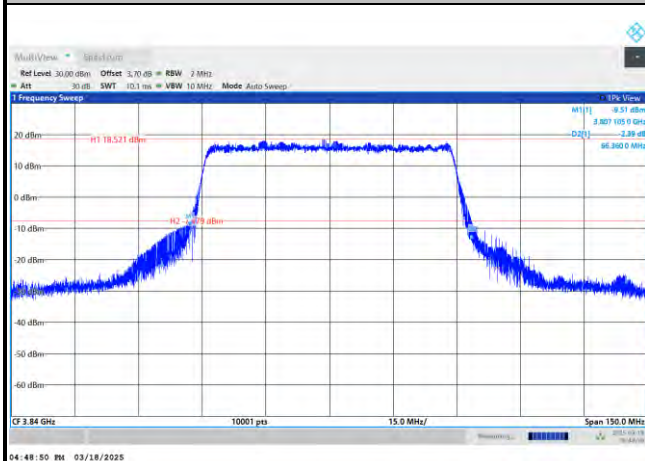
QPSK



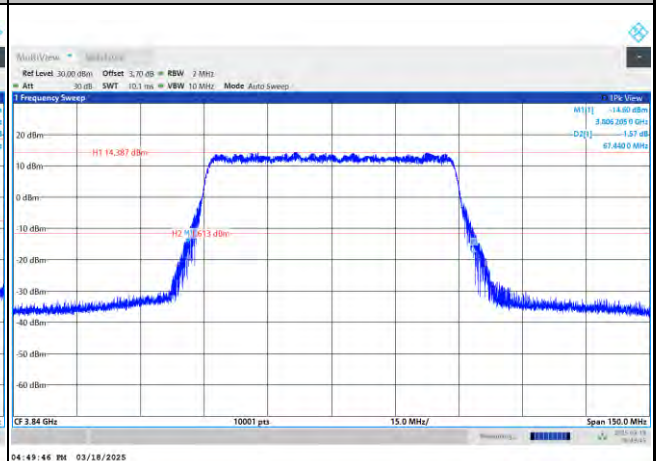
16QAM

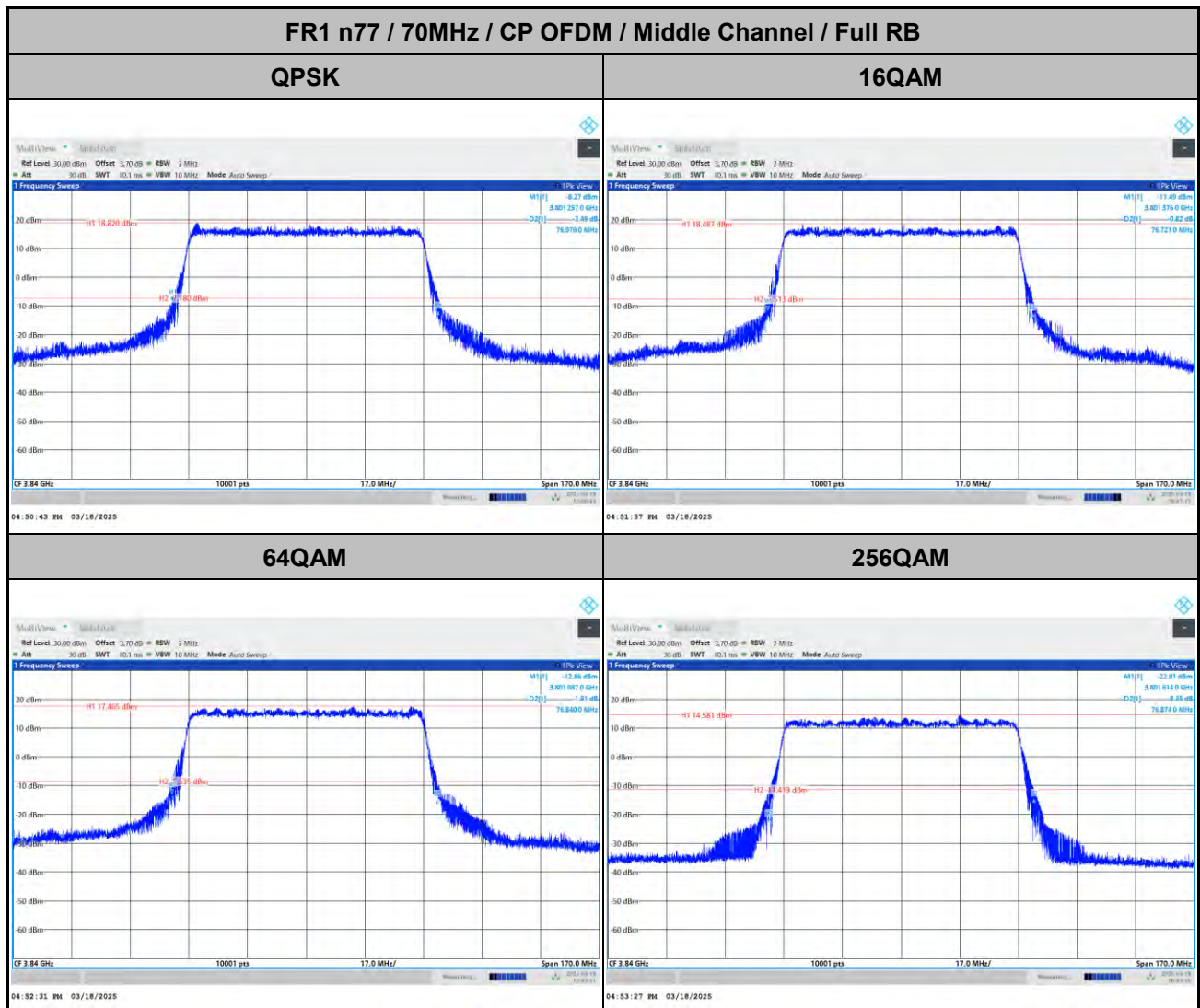


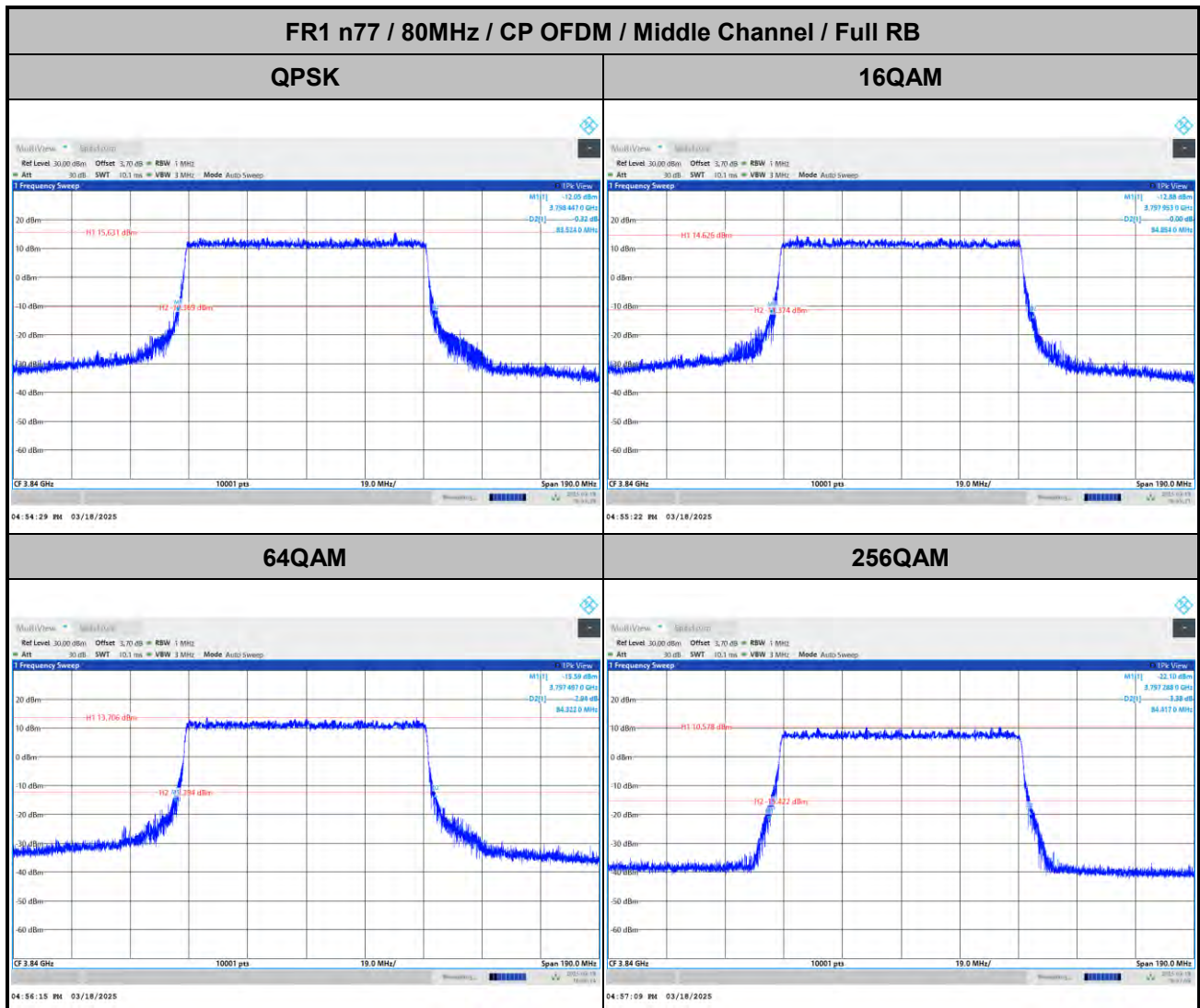
64QAM



256QAM

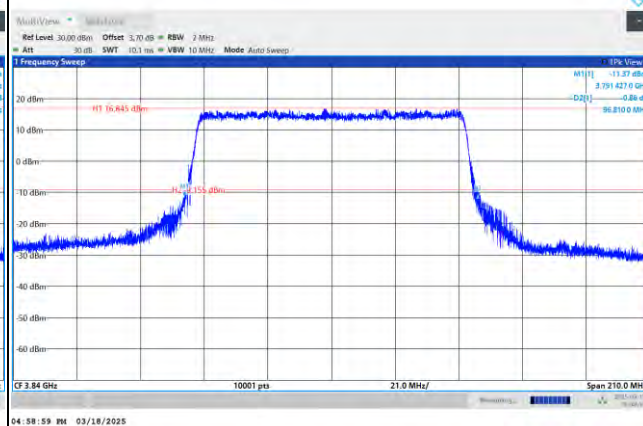




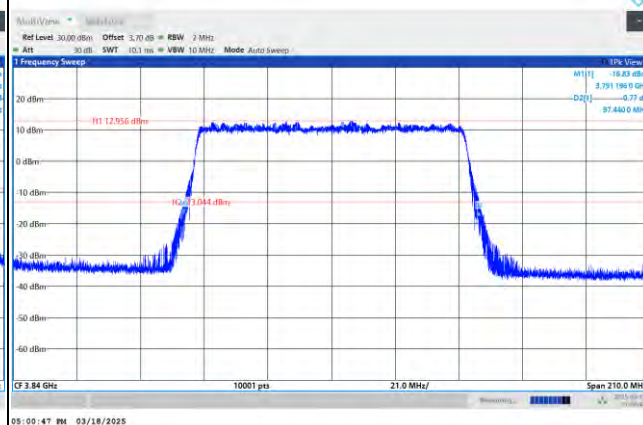


**FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB**

16QAM



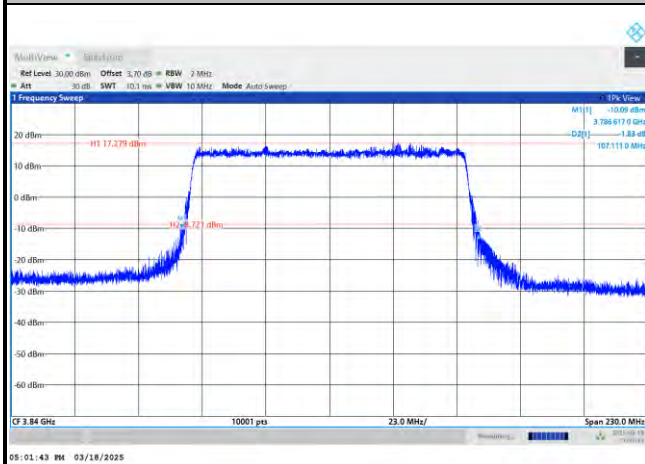
256QAM





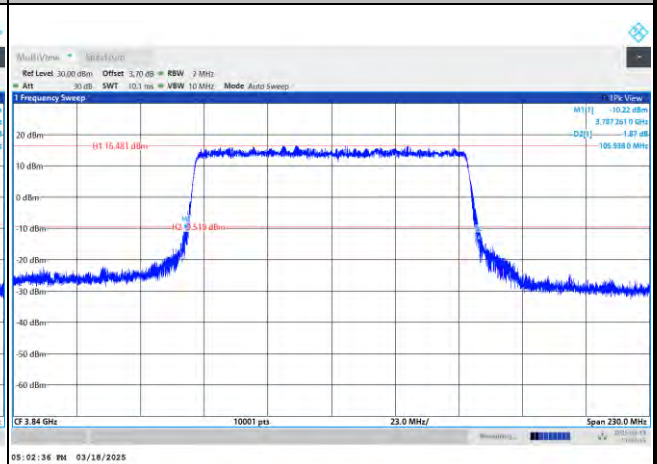
FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB

QPSK



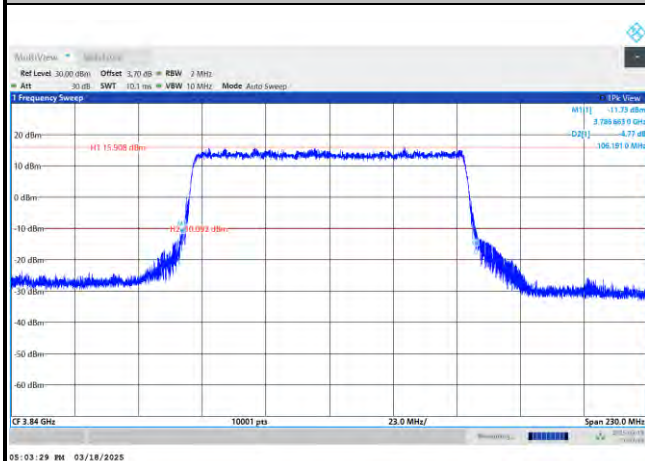
05:01:43 PM 03/18/2025

16QAM



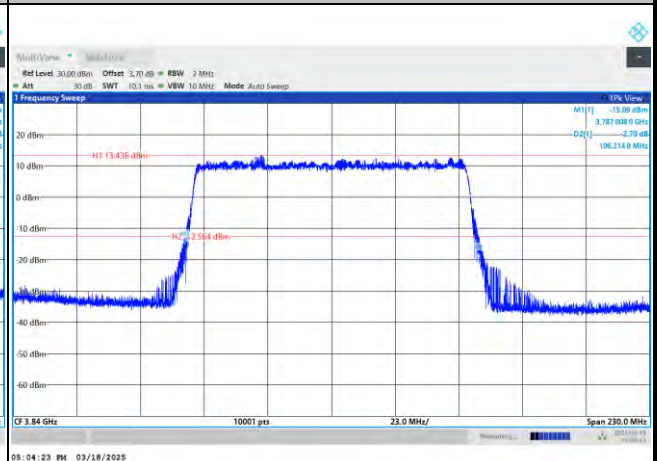
05:02:36 PM 03/18/2025

64QAM



05:03:29 PM 03/18/2025

256QAM



05:04:23 PM 03/18/2025

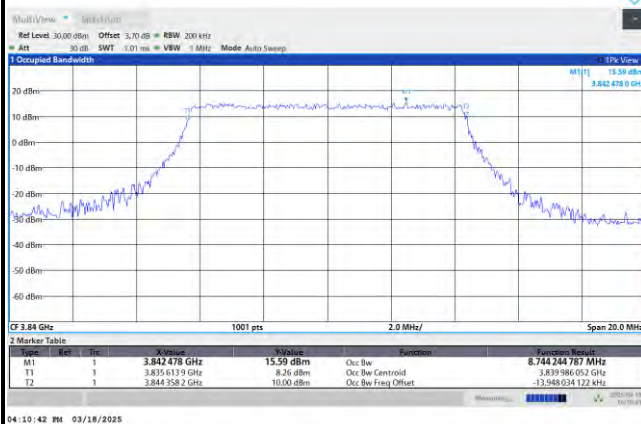
**Occupied Bandwidth**

Mode	FR1 n77 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.74	8.70	13.67	13.76	18.24	18.24	23.35	23.35
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.69	8.65	13.69	13.62	18.22	18.28	23.31	23.42
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	28.21	28.16	38.19	38.20	47.64	47.64	58.59	58.56
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.16	28.20	38.17	38.18	47.62	47.63	58.67	58.47
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	68.21	68.21	77.95	77.95	87.77	87.91	97.84	97.65
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	68.29	68.30	77.95	77.86	88.27	87.93	97.81	97.62

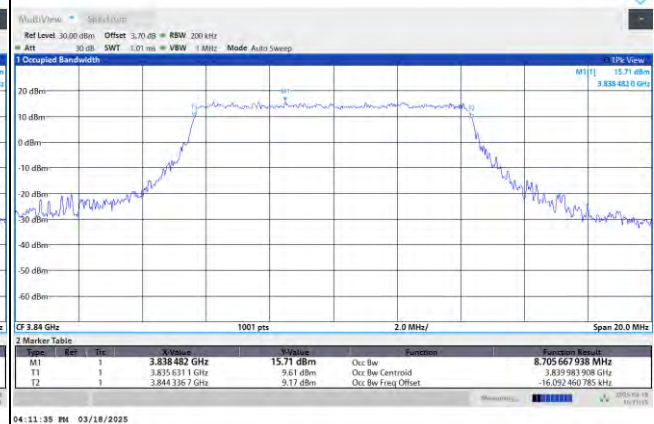


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

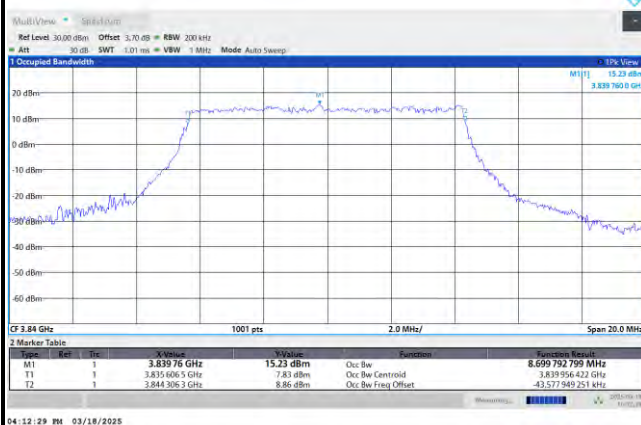
QPSK



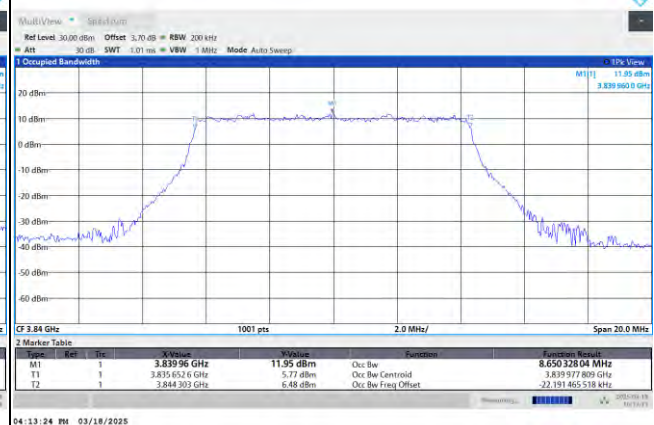
16QAM



64QAM



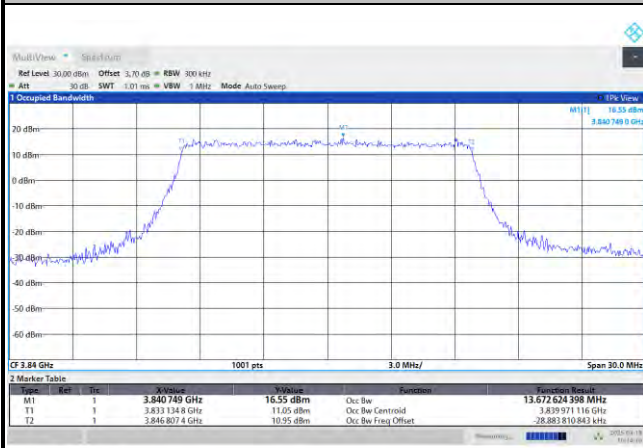
256QAM



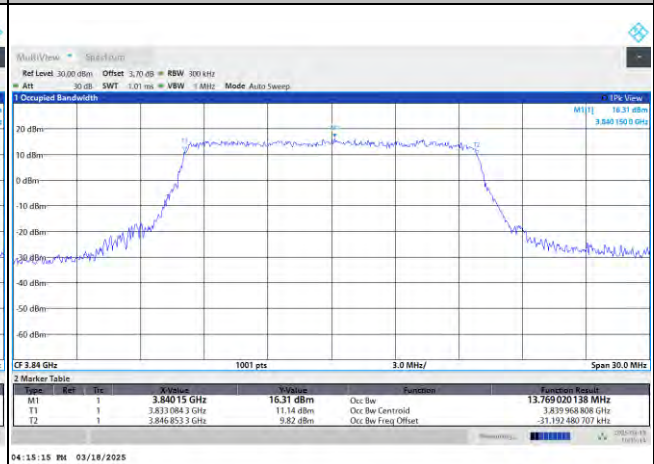


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

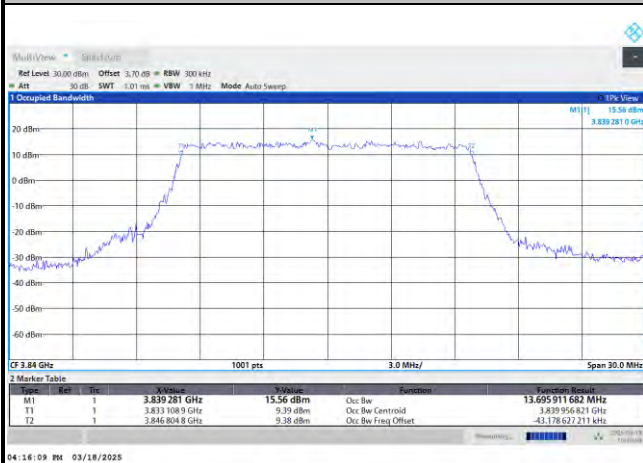
QPSK



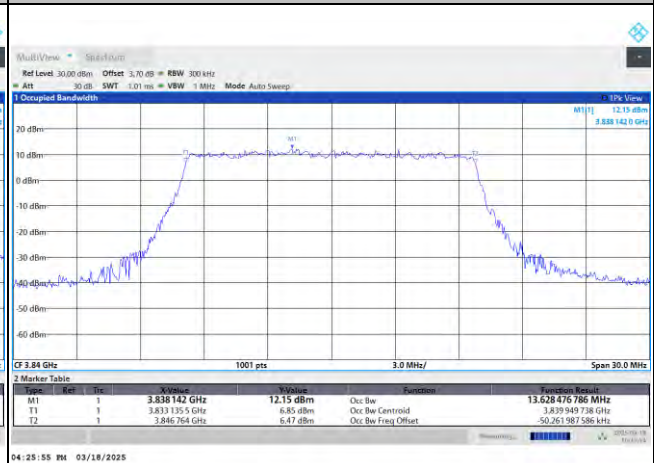
16QAM



64QAM



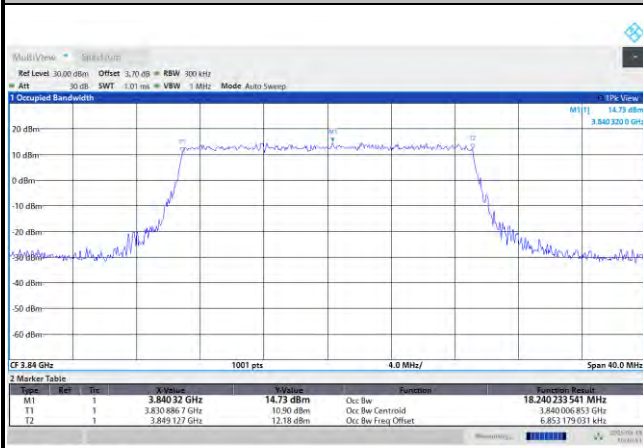
256QAM



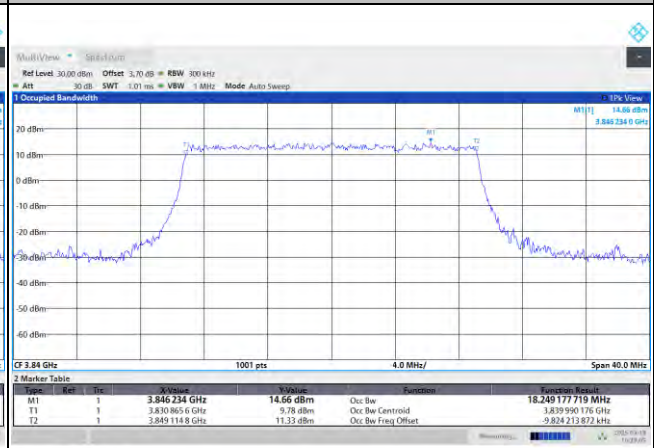


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

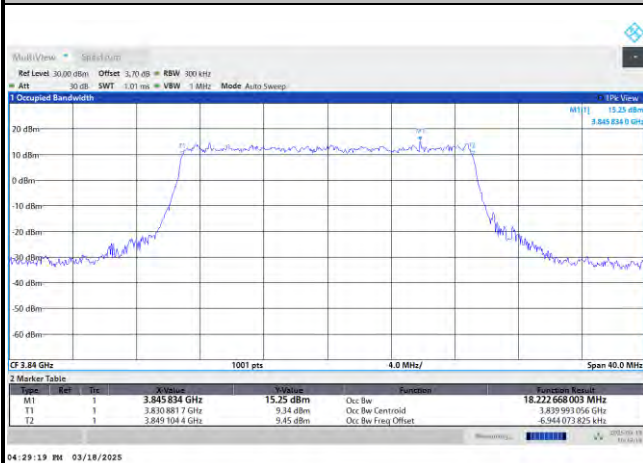
QPSK



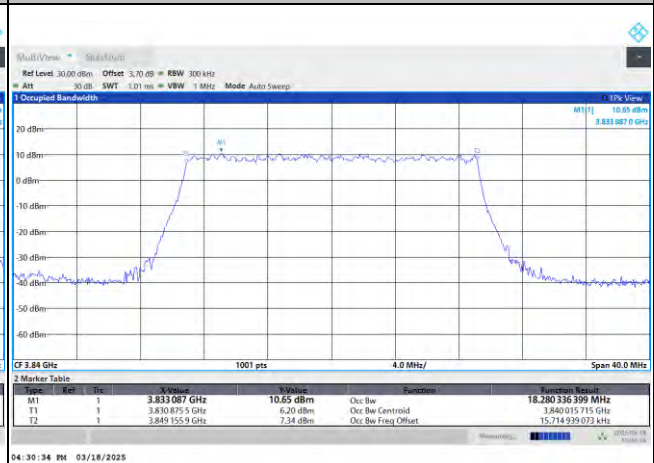
16QAM



64QAM



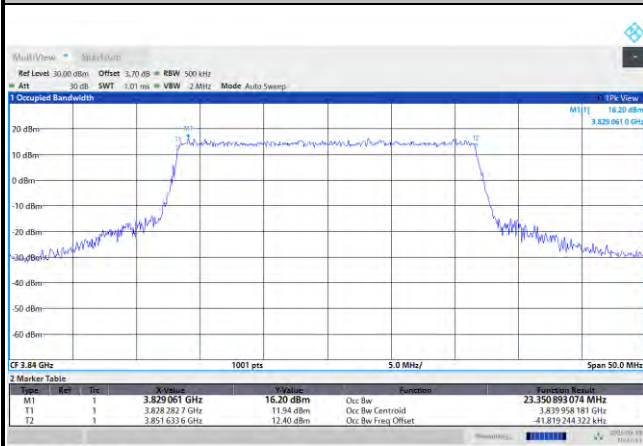
256QAM



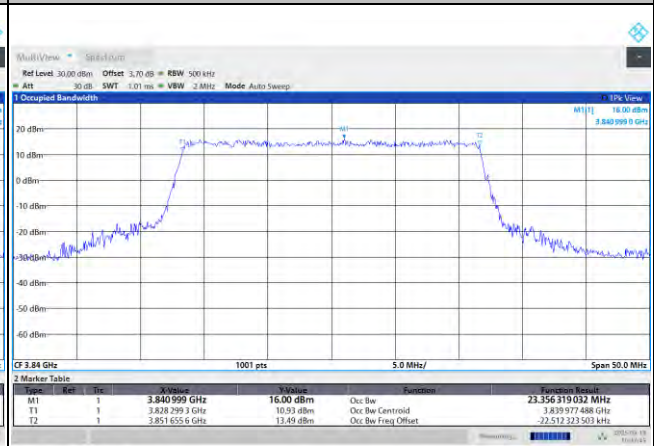


FR1 n77 / 25MHz / CP OFDM / Middle Channel / Full RB

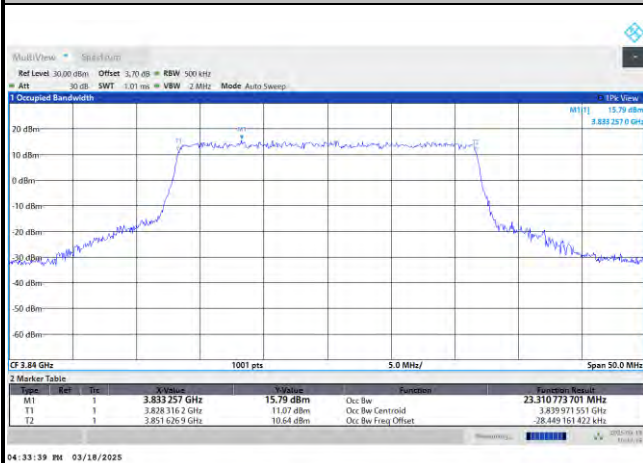
QPSK



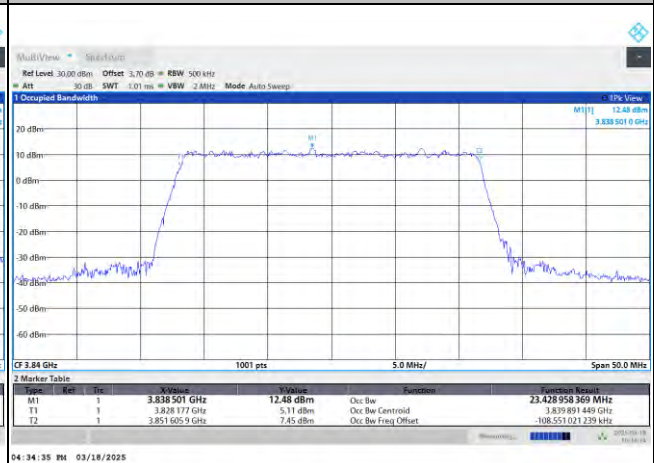
16QAM



64QAM



256QAM





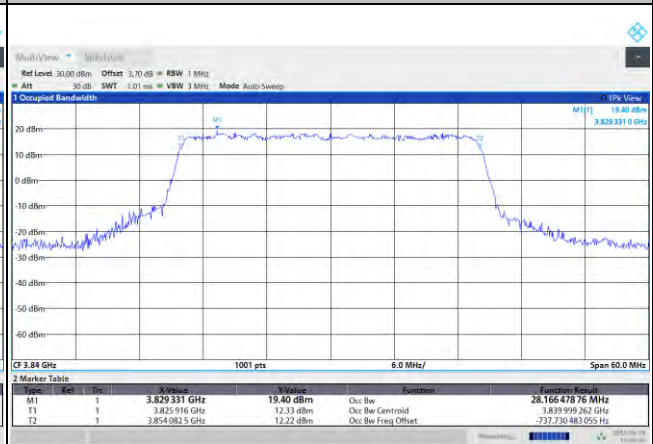
FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



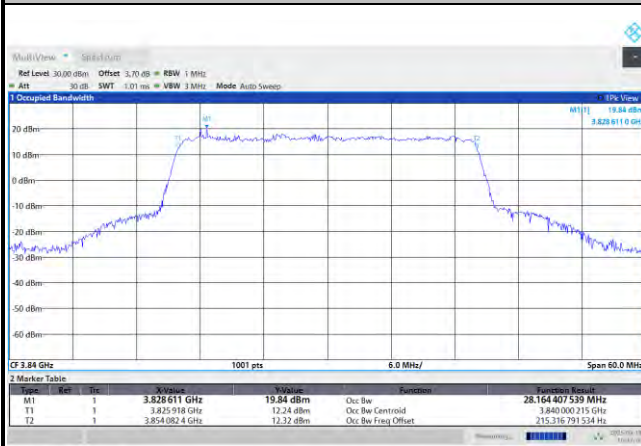
04:35:32 PM 03/18/2025

16QAM



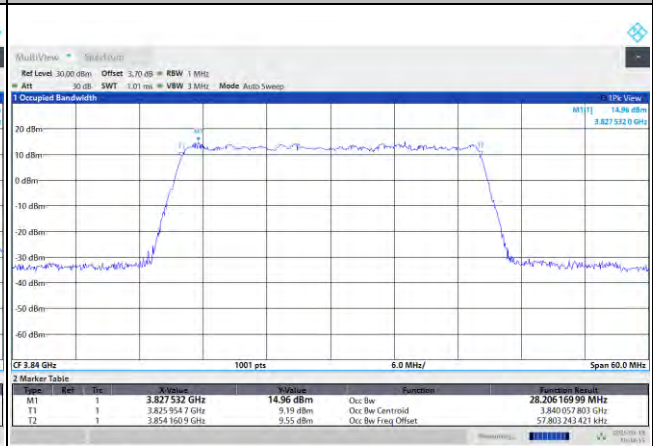
04:36:26 PM 03/18/2025

64QAM



04:37:20 PM 03/18/2025

256QAM

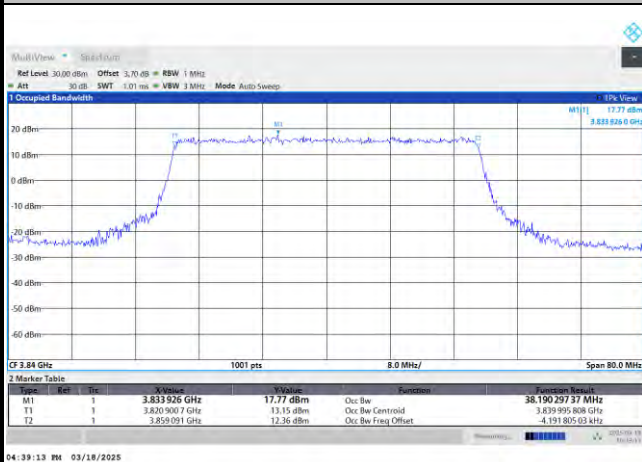


04:38:16 PM 03/18/2025



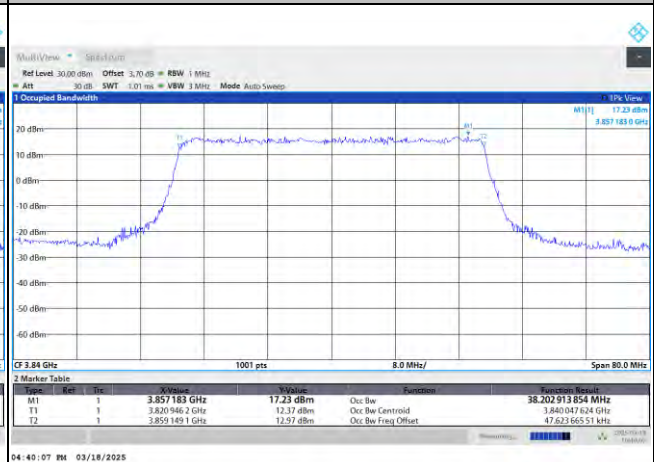
FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



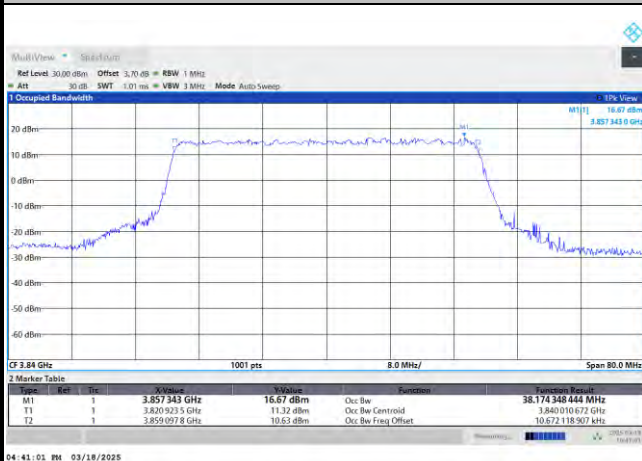
04:39:13 PM 03/18/2025

16QAM



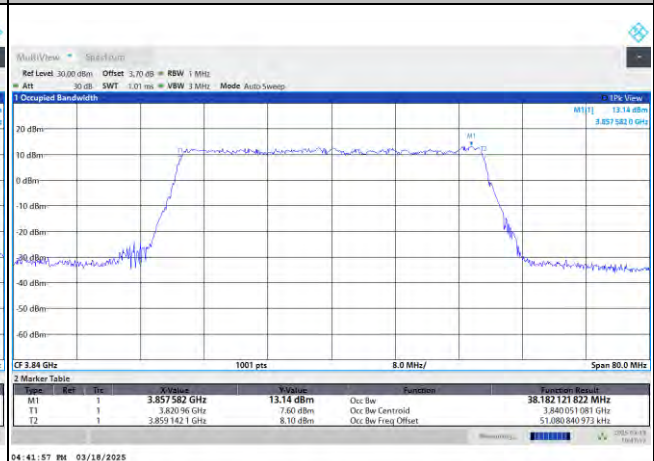
04:40:07 PM 03/18/2025

64QAM



04:41:01 PM 03/18/2025

256QAM

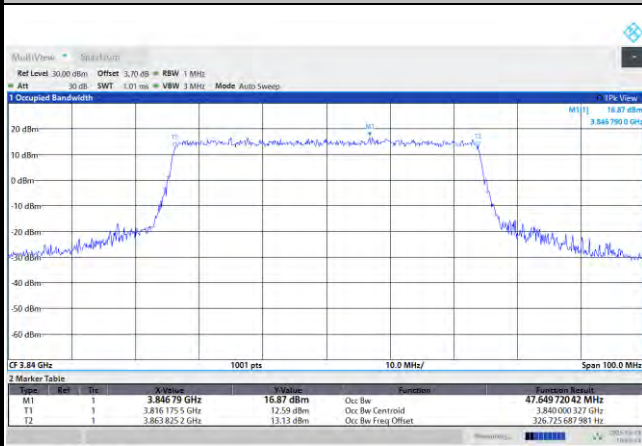


04:41:57 PM 03/18/2025

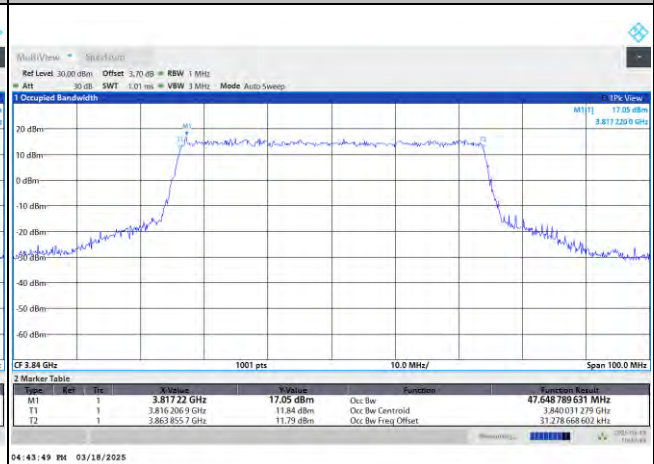


FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

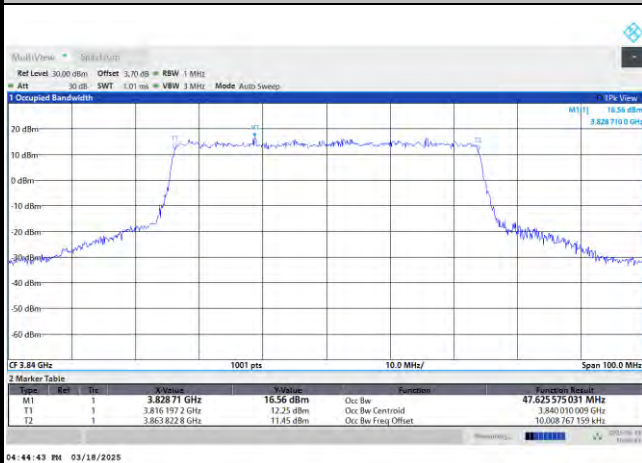
QPSK



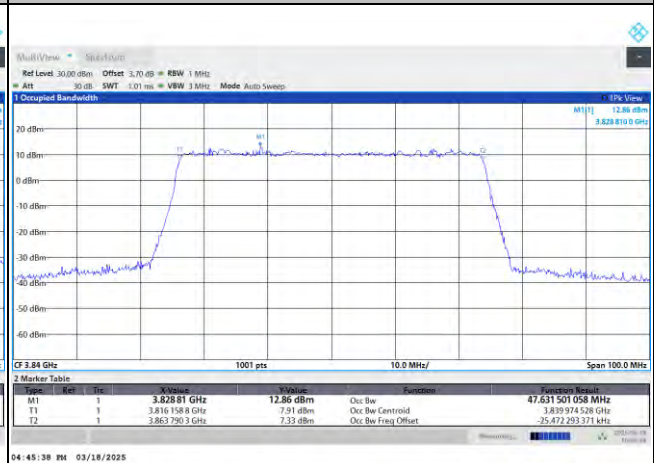
16QAM



64QAM



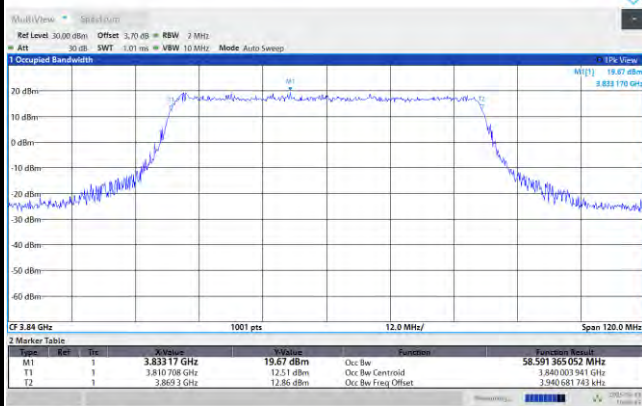
256QAM





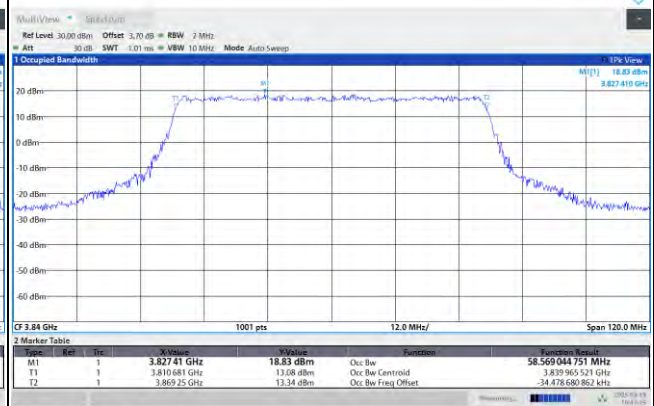
FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

QPSK



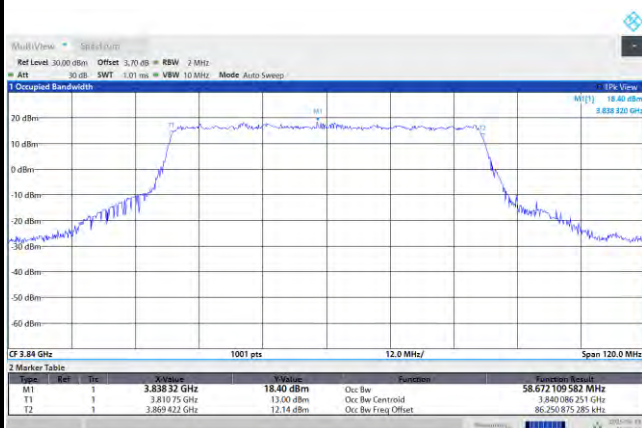
04:46:36 PM 03/18/2025

16QAM



04:47:30 PM 03/18/2025

64QAM



04:48:24 PM 03/18/2025

256QAM

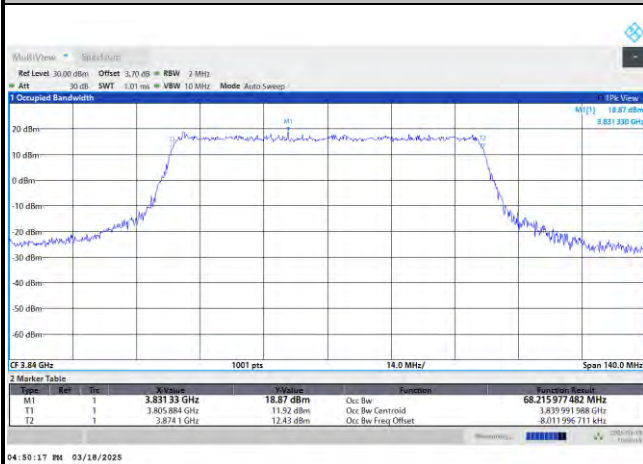


04:49:19 PM 03/18/2025



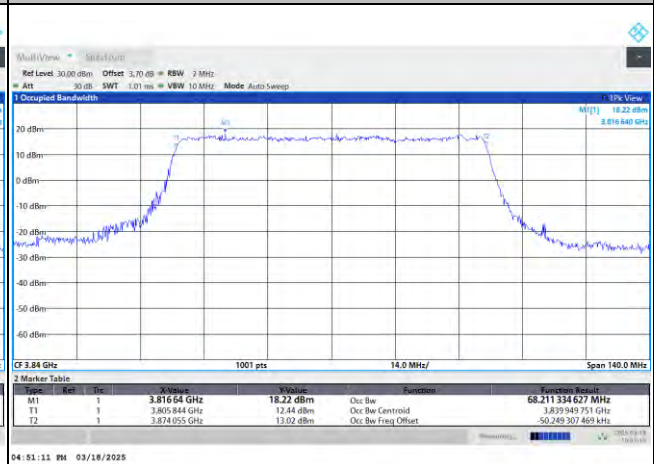
FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

QPSK



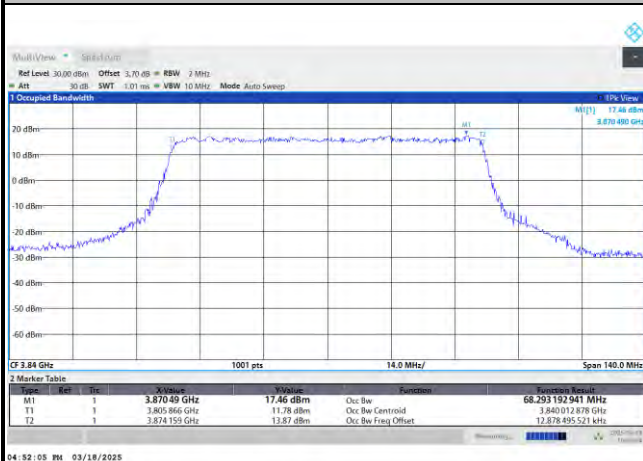
04:50:17 PM 03/18/2025

16QAM



04:51:11 PM 03/18/2025

64QAM



04:52:05 PM 03/18/2025

256QAM

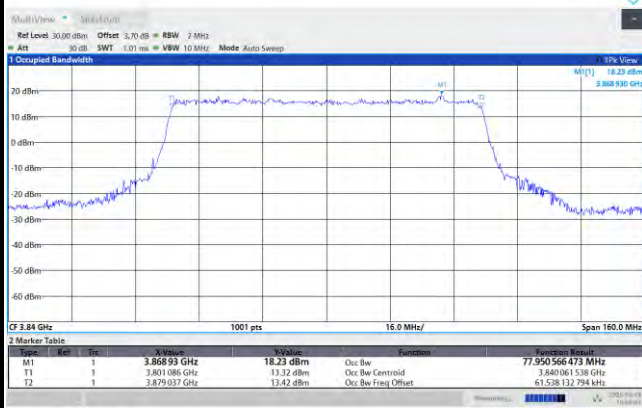


04:53:00 PM 03/18/2025

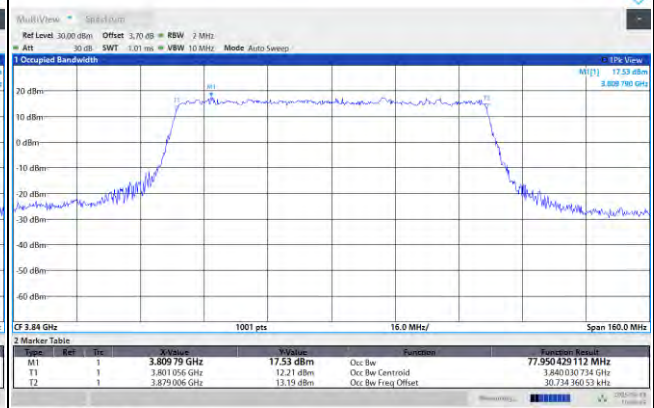


FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

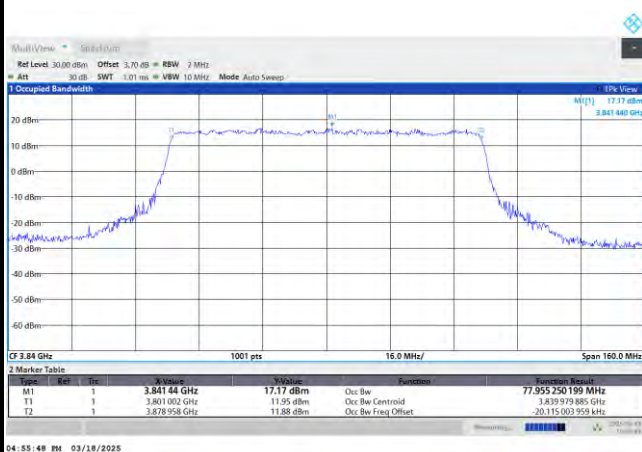
QPSK



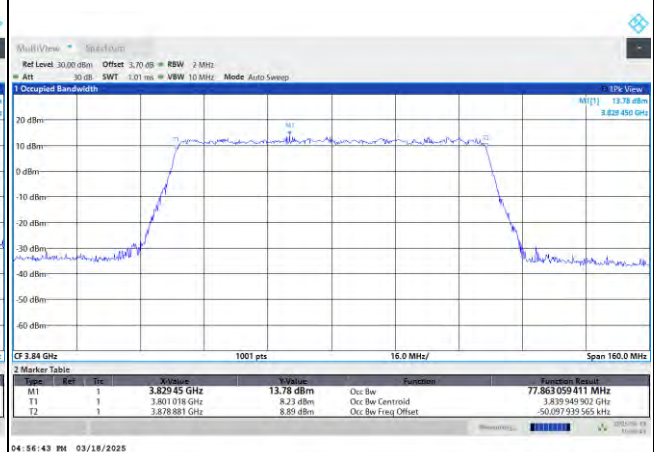
16QAM



64QAM



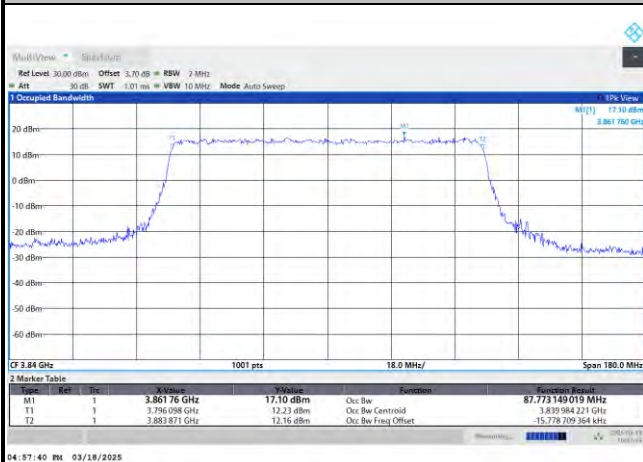
256QAM





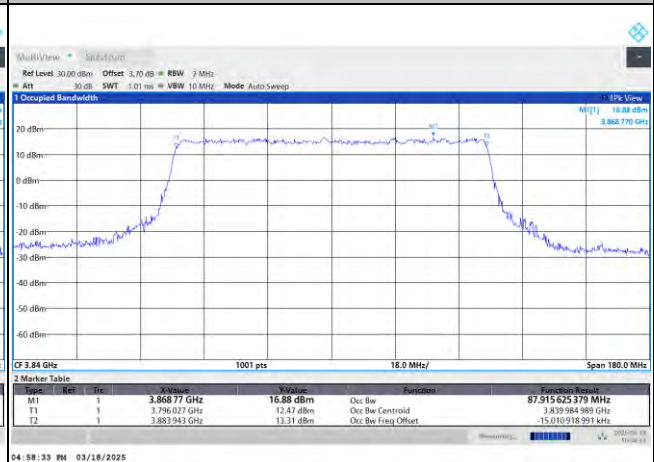
FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB

QPSK



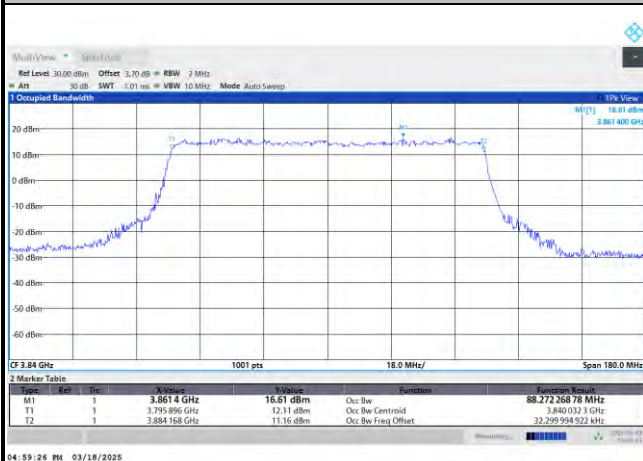
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16QAM



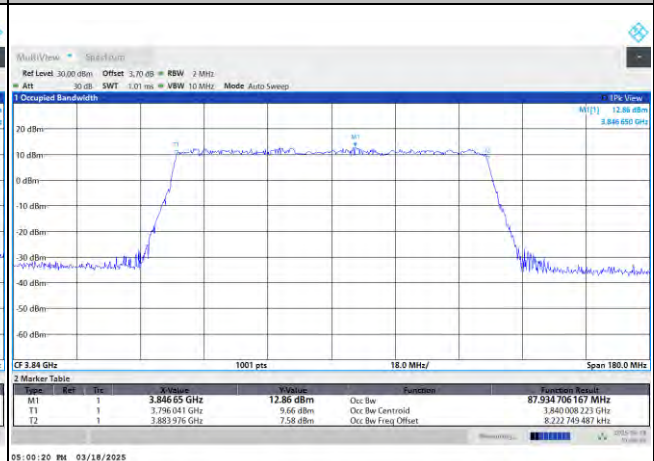
04:58:33 PM 03/18/2025

64QAM



04:59:26 PM 03/18/2025

256QAM

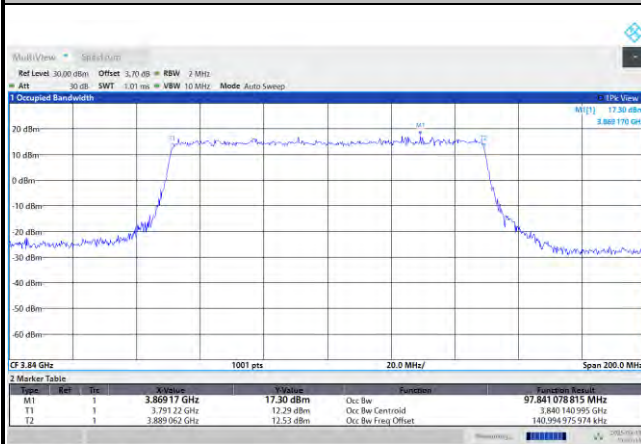


05:00:20 PM 03/18/2025



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

QPSK



05:01:17 PM 03/18/2025

16QAM



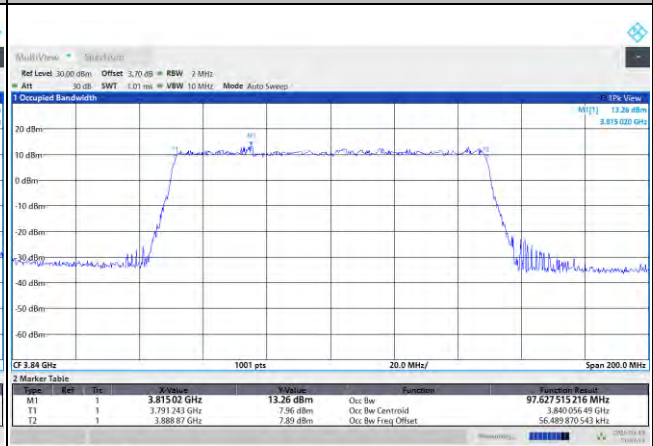
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64QAM



05:03:03 PM 03/18/2025

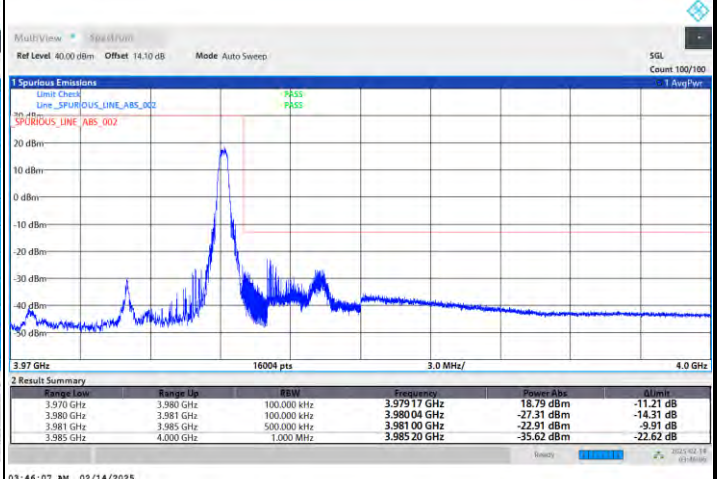
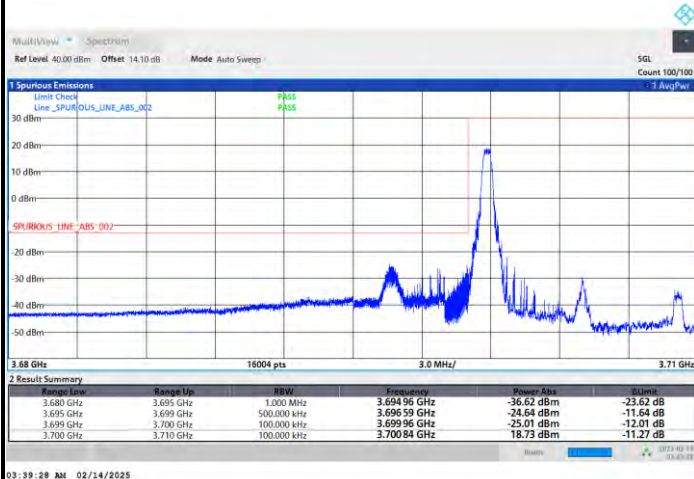
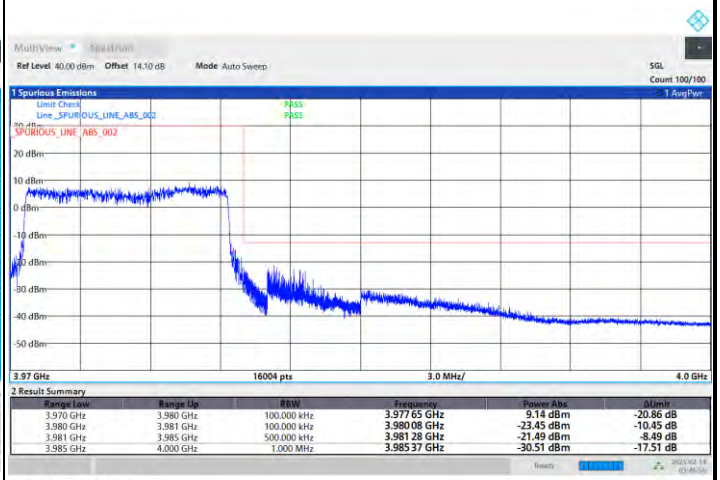
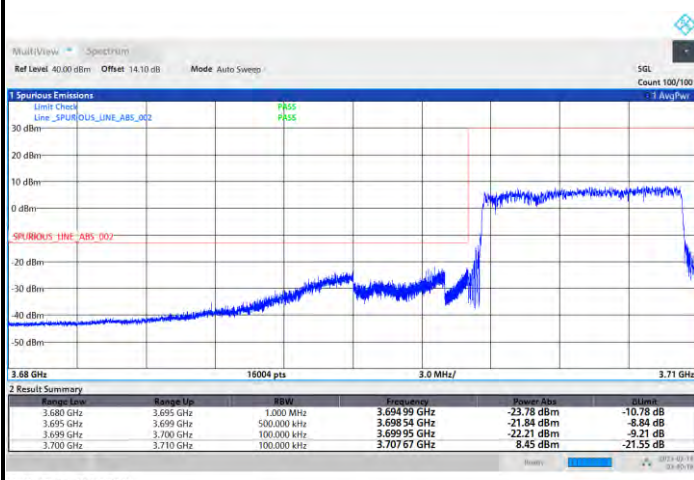
256QAM



05:03:57 PM 03/18/2025

**Conducted Band Edge**

FR1 n77 / 10MHz / CP OFDM / QPSK

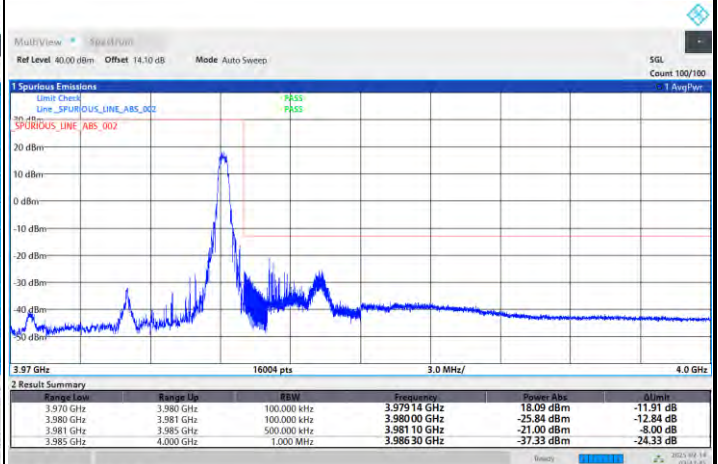
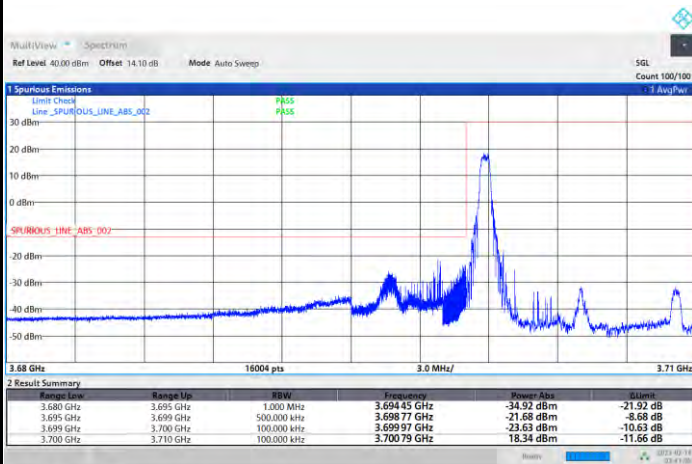
Lowest Band Edge / 1RB0**Highest Band Edge / 1RBmax****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



FR1 n77 / 10MHz / CP OFDM / 16QAM

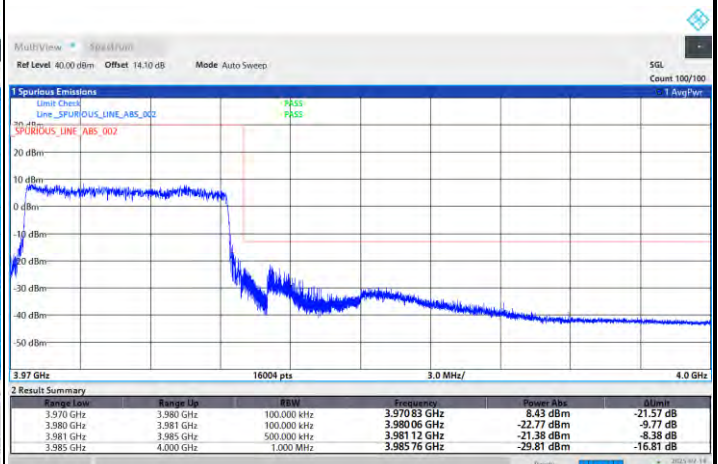
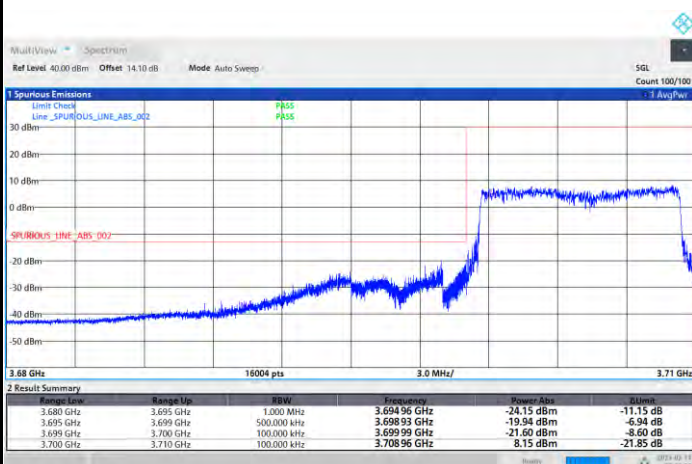
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

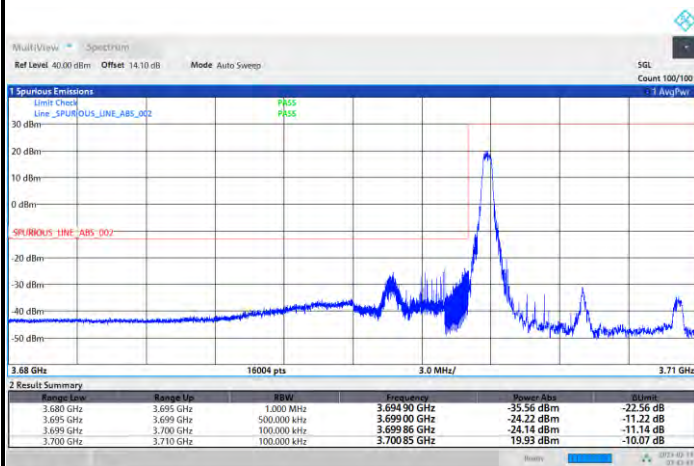
Highest Band Edge / Full RB





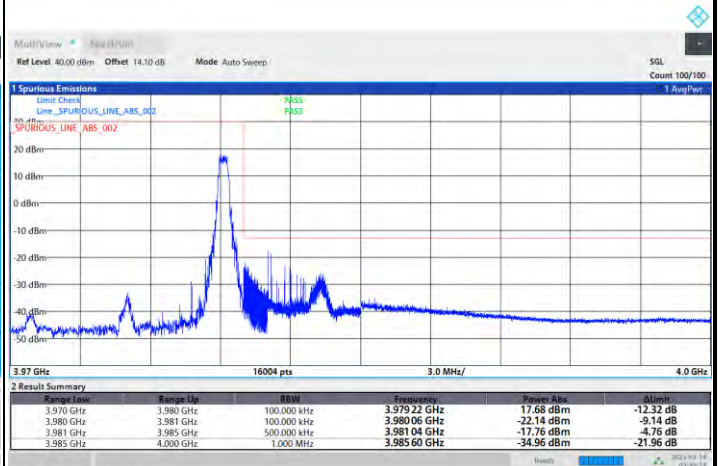
FR1 n77 / 10MHz / CP OFDM / 64QAM

Lowest Band Edge / 1RB0



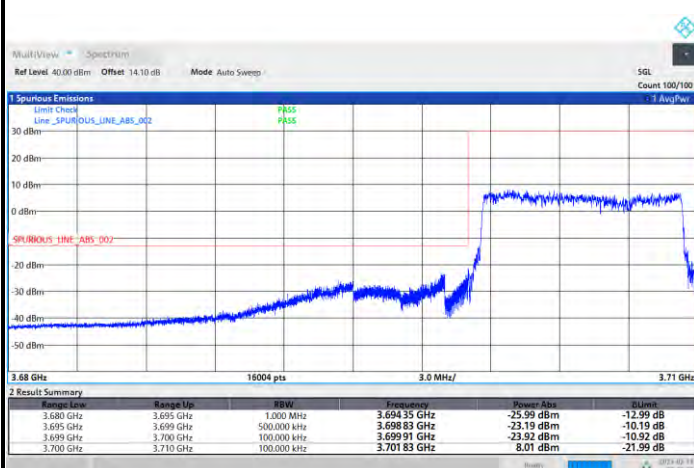
03:42:44 AM 02/14/2025

Highest Band Edge / 1RBmax



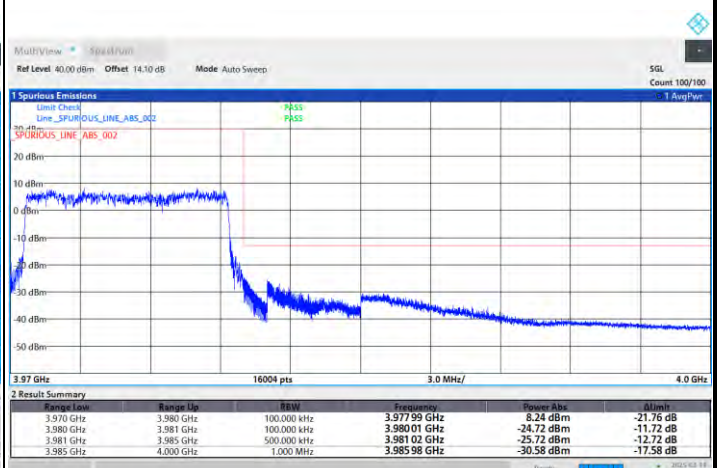
03:49:25 AM 02/14/2025

Lowest Band Edge / Full RB



03:43:33 AM 02/14/2025

Highest Band Edge / Full RB



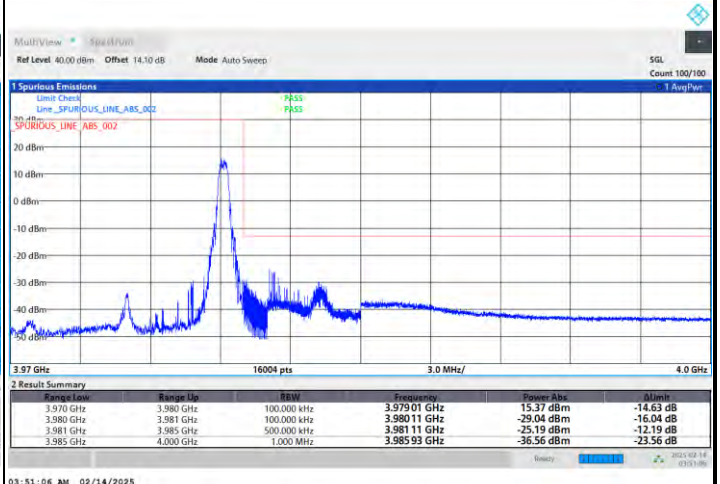
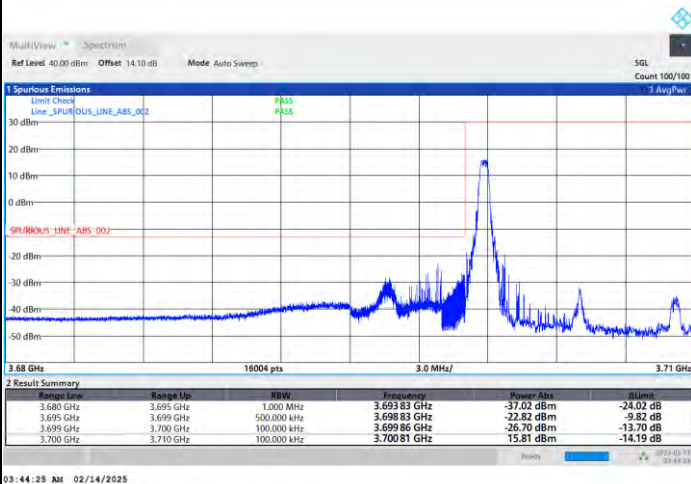
03:50:14 AM 02/14/2025



FR1 n77 / 10MHz / CP OFDM / 256QAM

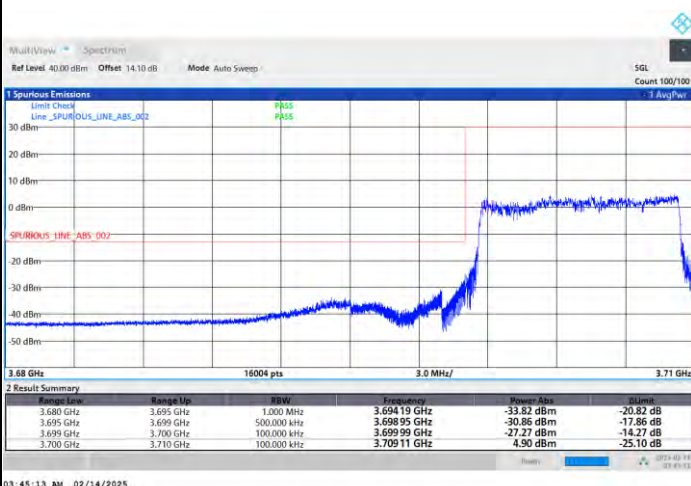
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

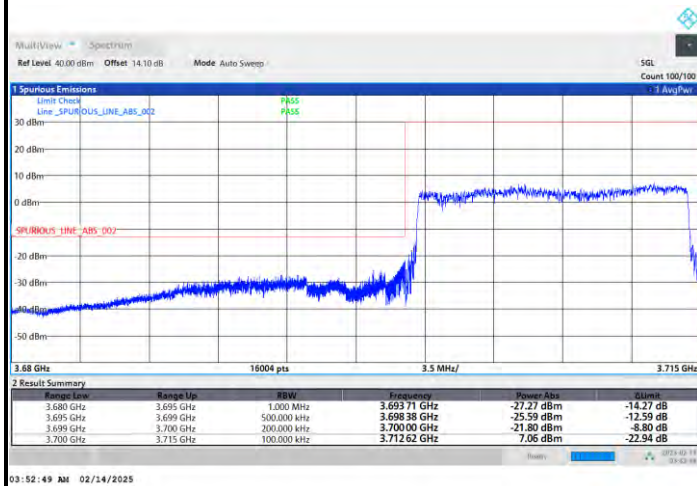
Highest Band Edge / Full RB





FR1 n77 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



03:52:49 AM 02/14/2025

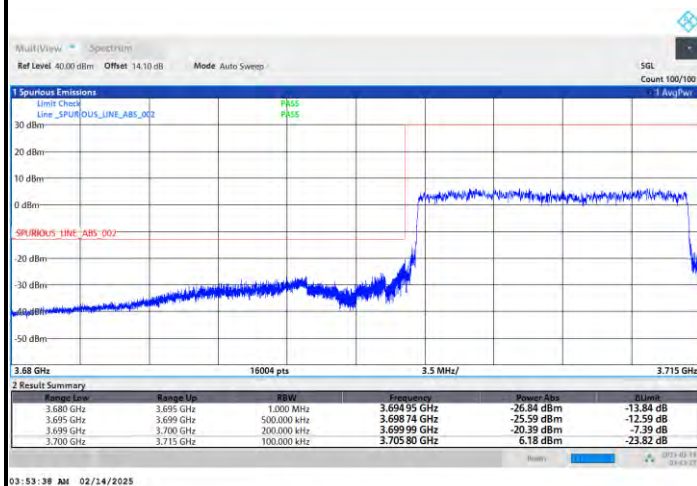
Highest Band Edge / Full RB



03:56:12 AM 02/14/2025

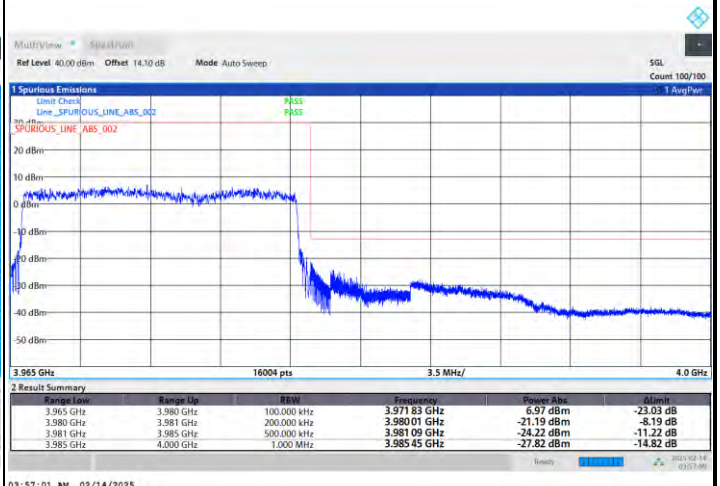
FR1 n77 / 15MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



03:53:38 AM 02/14/2025

Highest Band Edge / Full RB

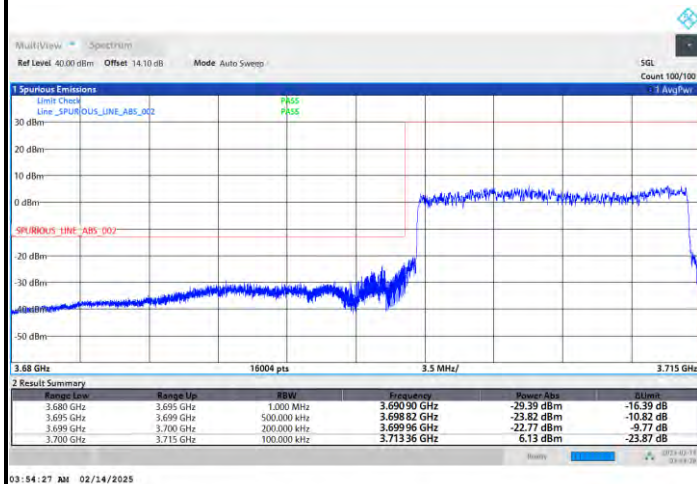


03:57:01 AM 02/14/2025



FR1 n77 / 15MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



03:54:27 AM 02/14/2025

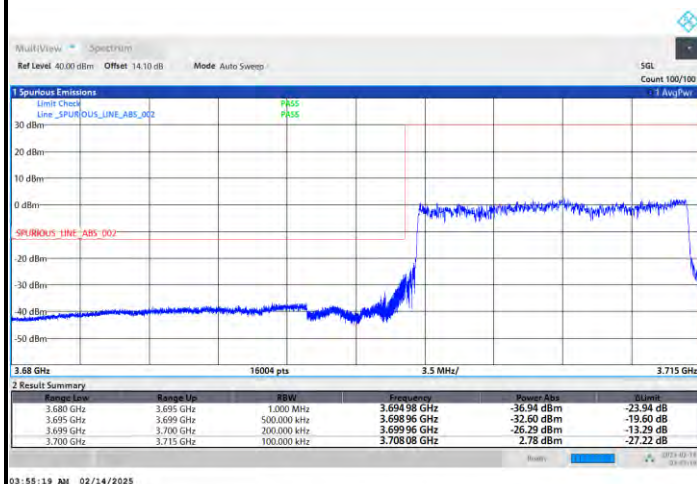
Highest Band Edge / Full RB



03:57:50 AM 02/14/2025

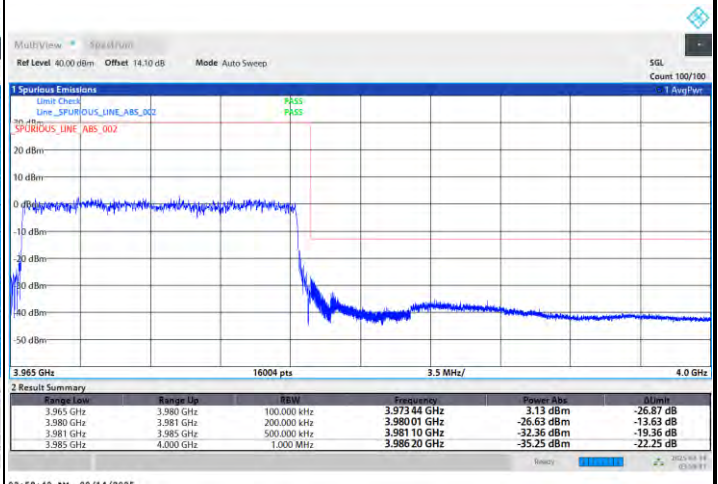
FR1 n77 / 15MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



03:55:19 AM 02/14/2025

Highest Band Edge / Full RB

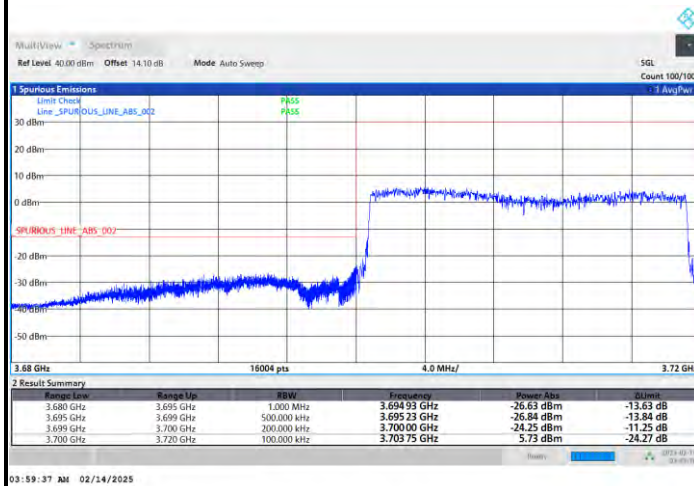


03:58:42 AM 02/14/2025



FR1 n77 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

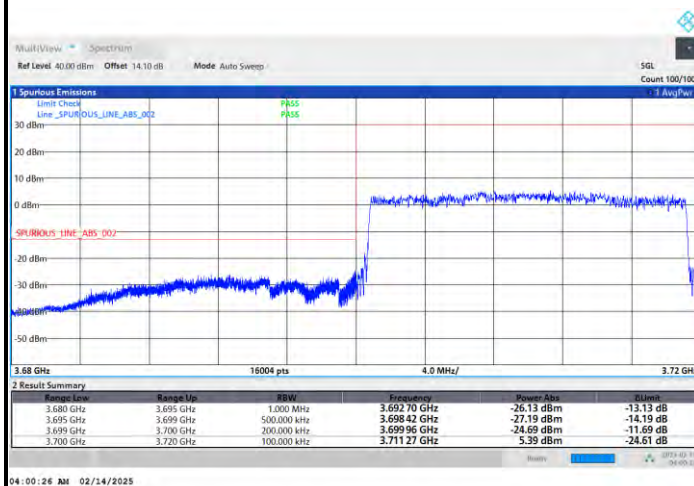


Highest Band Edge / Full RB



FR1 n77 / 20MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



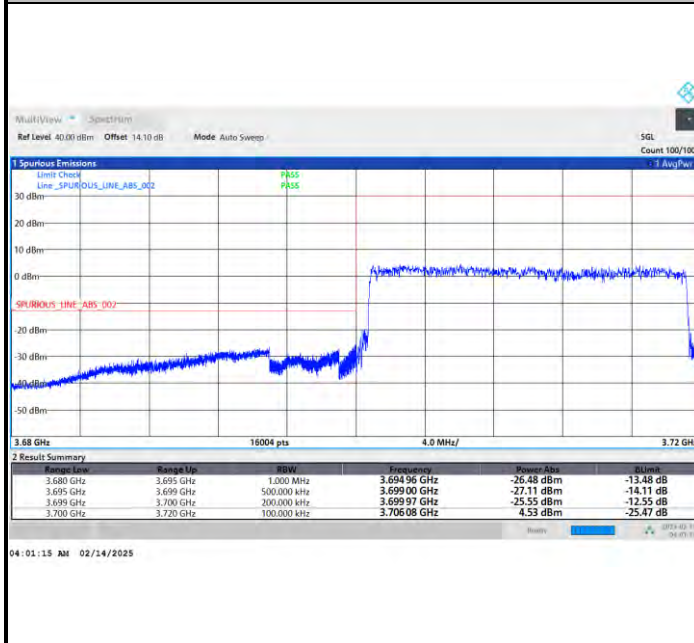
Highest Band Edge / Full RB



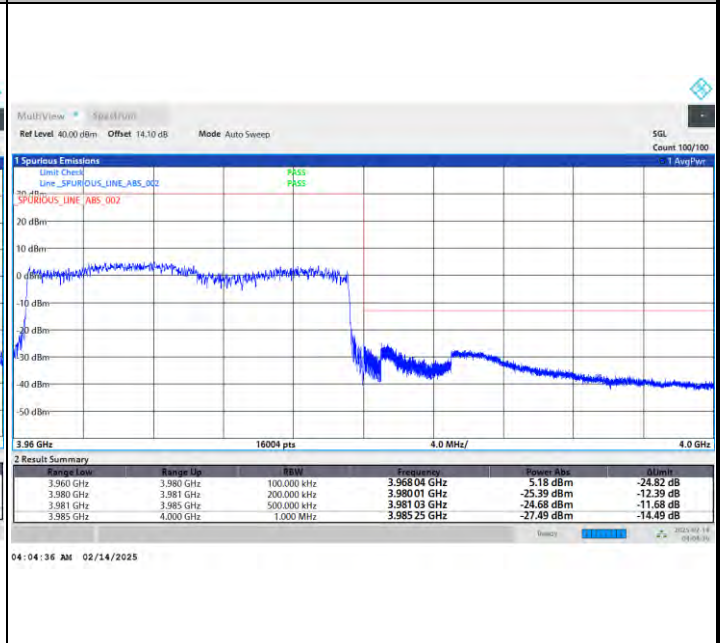


FR1 n77 / 20MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

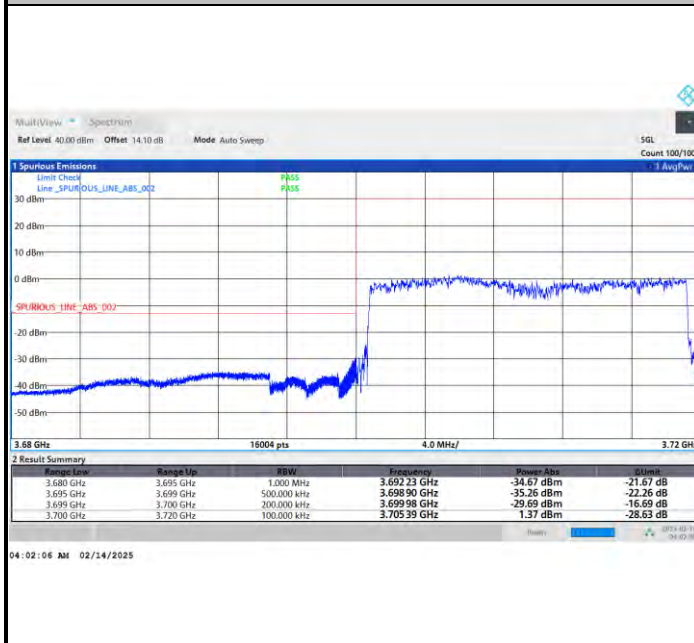


Highest Band Edge / Full RB

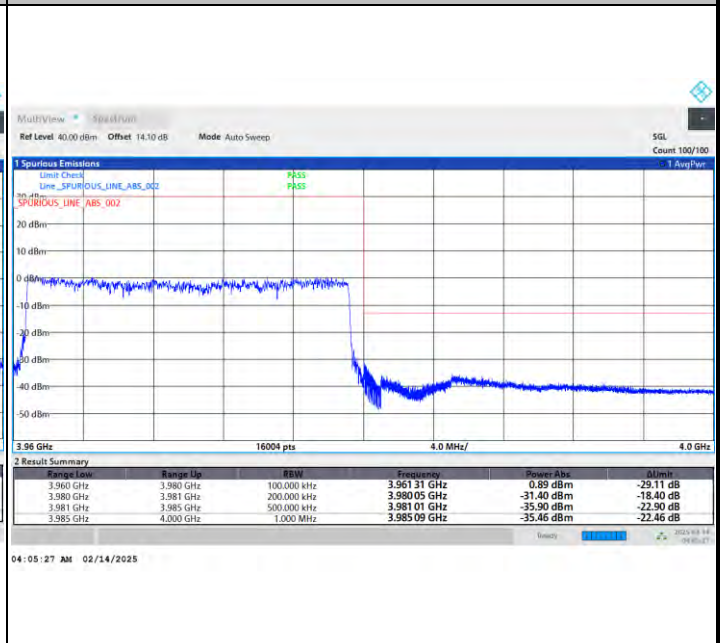


FR1 n77 / 20MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



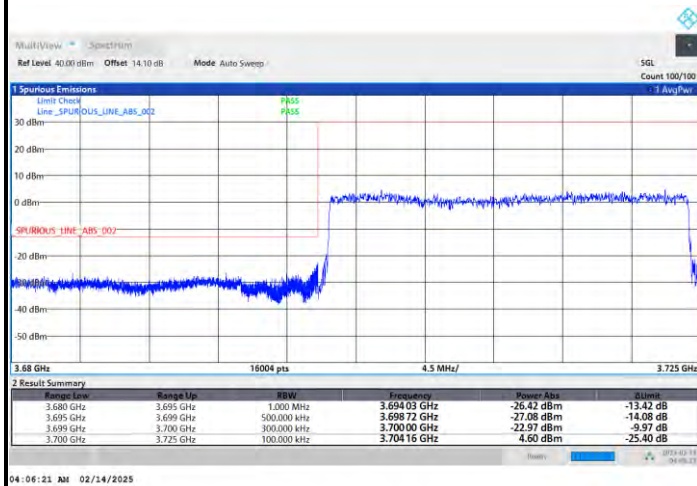
Highest Band Edge / Full RB





FR1 n77 / 25MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



04:06:21 AM 02/14/2025

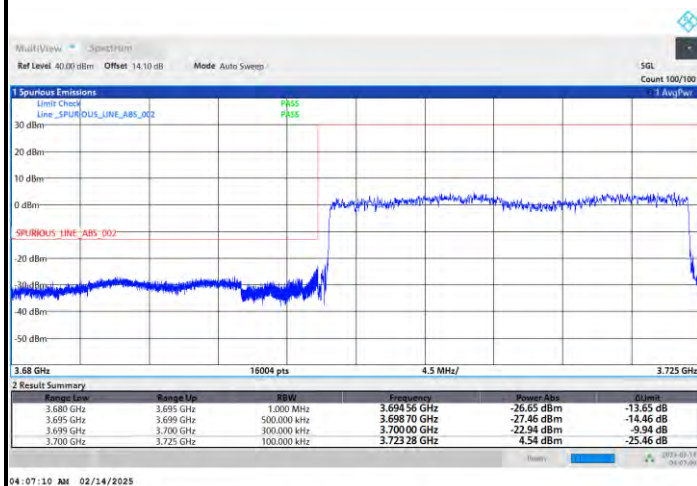
Highest Band Edge / Full RB



04:09:42 AM 02/14/2025

FR1 n77 / 25MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



04:07:10 AM 02/14/2025

Highest Band Edge / Full RB

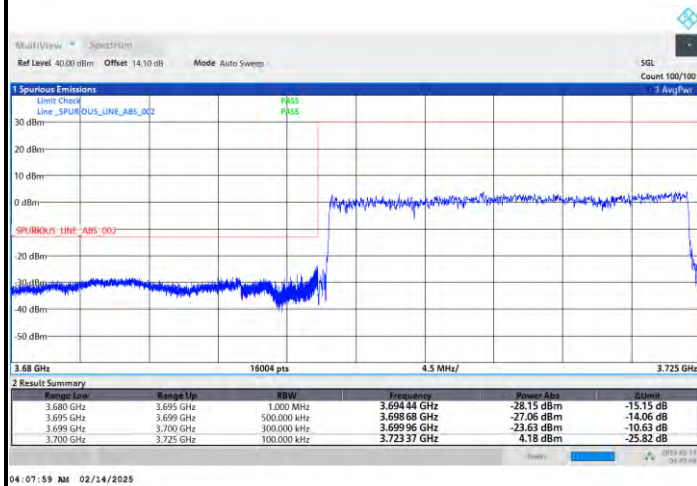


04:10:32 AM 02/14/2025



FR1 n77 / 25MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



04:07:59 AM 02/14/2025

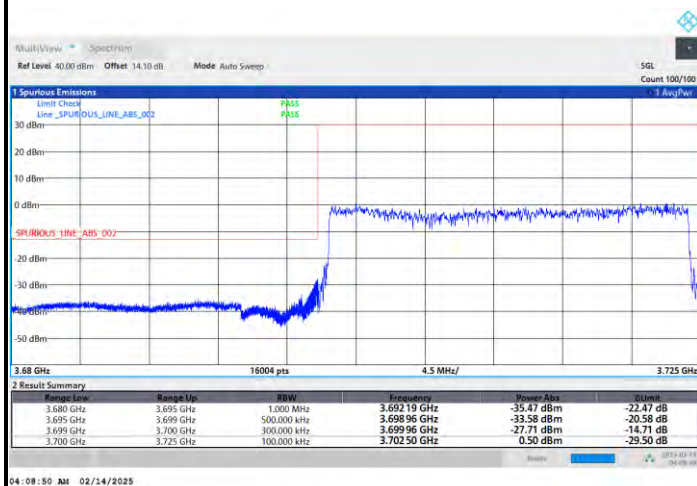
Highest Band Edge / Full RB



04:11:21 AM 02/14/2025

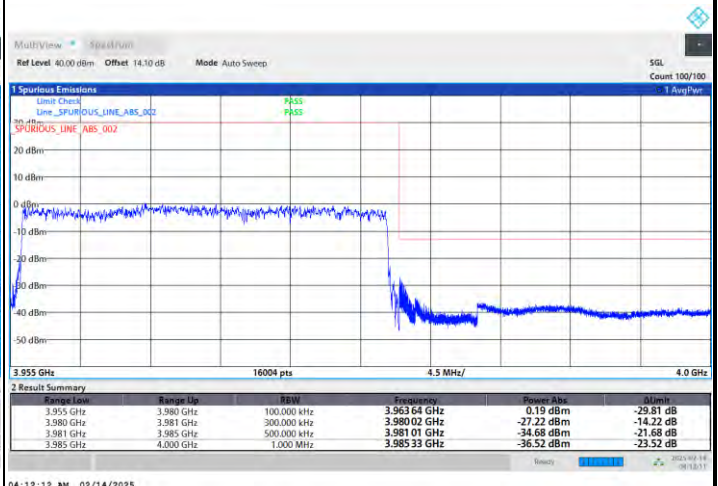
FR1 n77 / 25MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



04:08:50 AM 02/14/2025

Highest Band Edge / Full RB

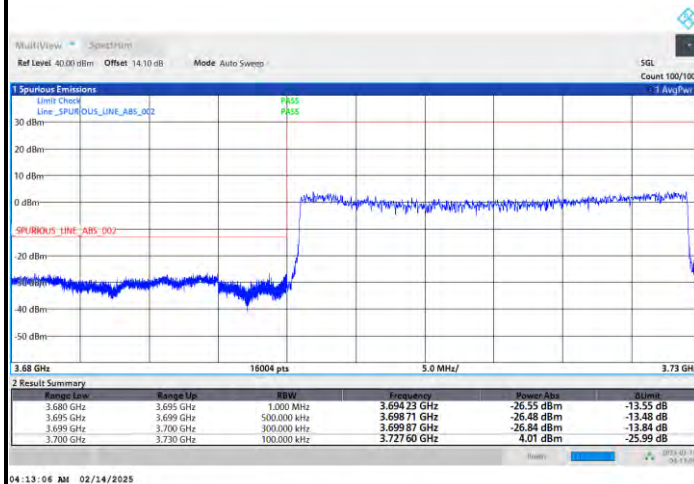


04:12:12 AM 02/14/2025

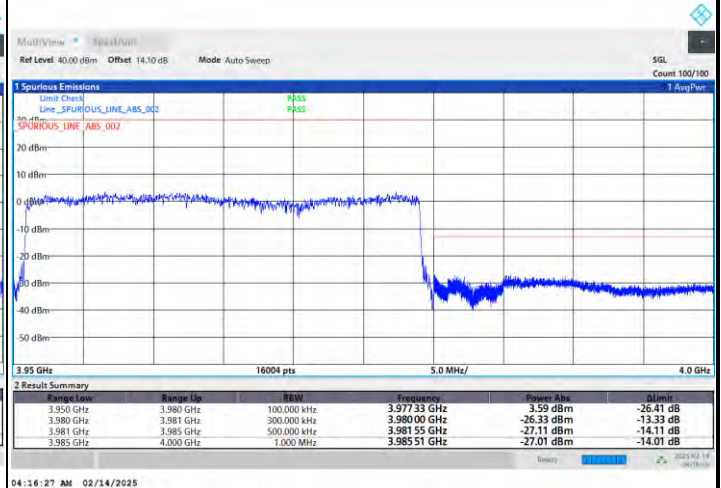


FR1 n77 / 30MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

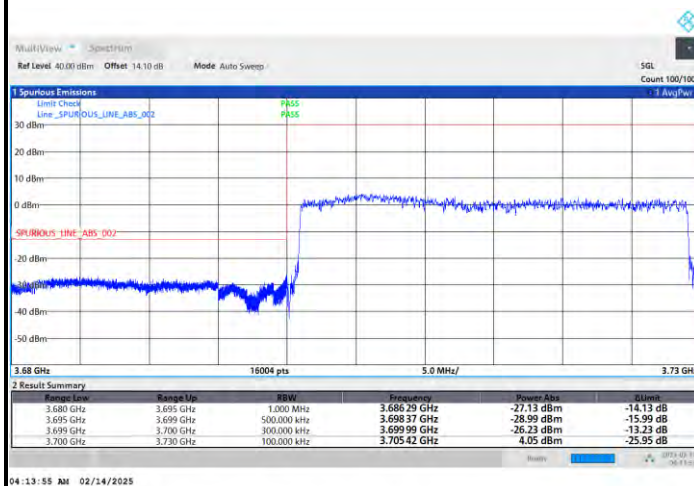


Highest Band Edge / Full RB



FR1 n77 / 30MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



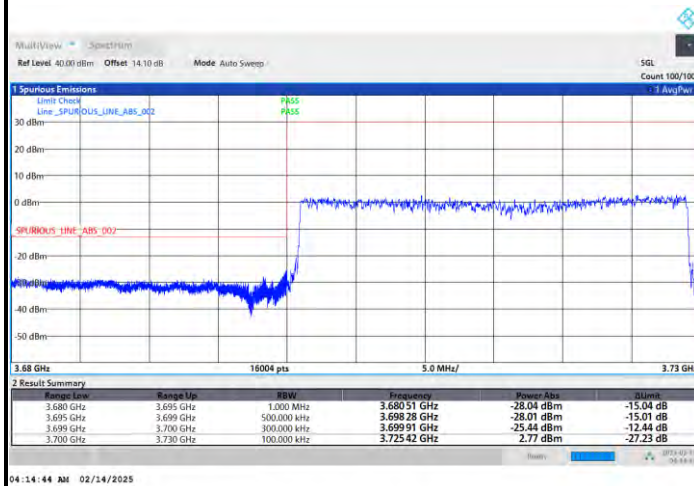
Highest Band Edge / Full RB





FR1 n77 / 30MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

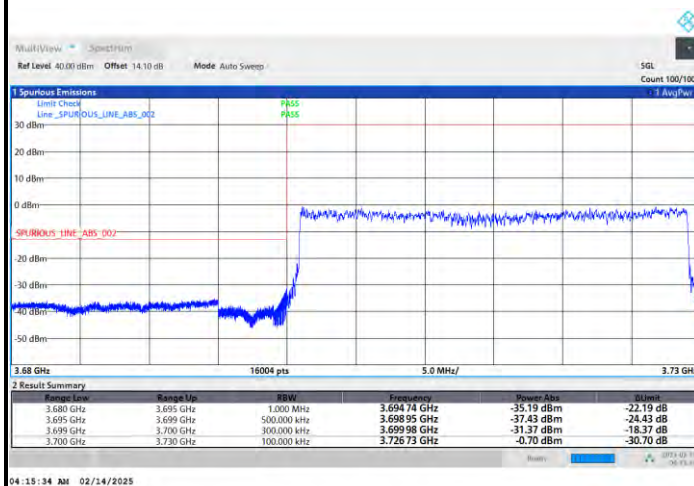


Highest Band Edge / Full RB



FR1 n77 / 30MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



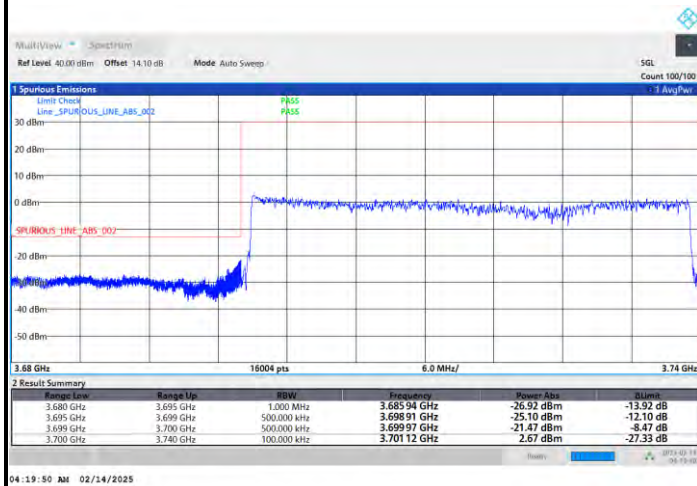
Highest Band Edge / Full RB





FR1 n77 / 40MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

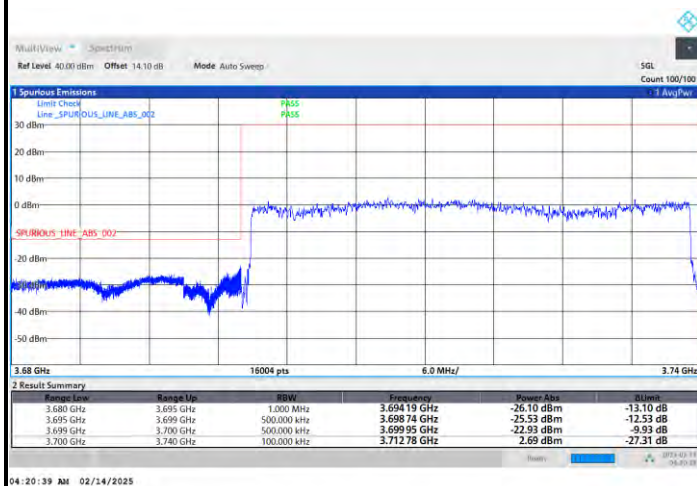


Highest Band Edge / Full RB

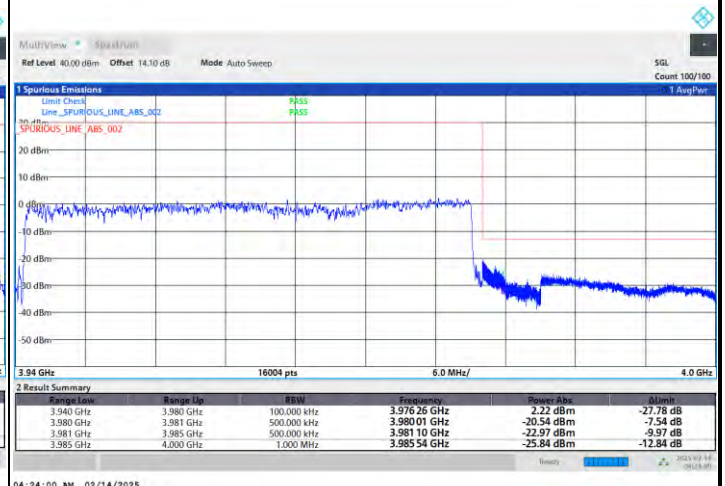


FR1 n77 / 40MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



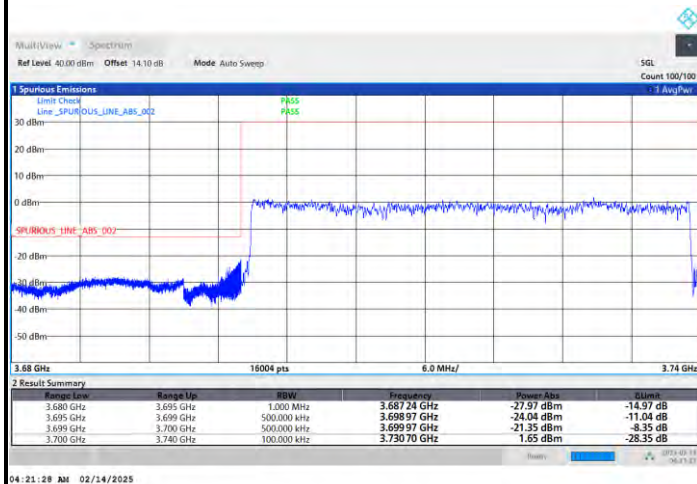
Highest Band Edge / Full RB





FR1 n77 / 40MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



04:21:28 AM 02/14/2025

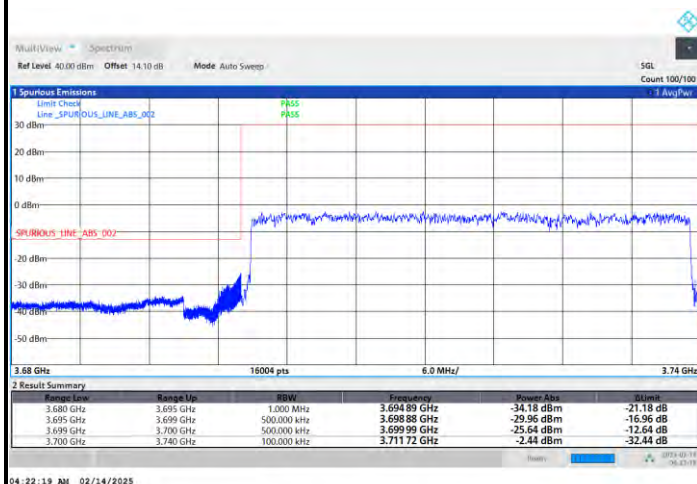
Highest Band Edge / Full RB



04:24:50 AM 02/14/2025

FR1 n77 / 40MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



04:22:19 AM 02/14/2025

Highest Band Edge / Full RB

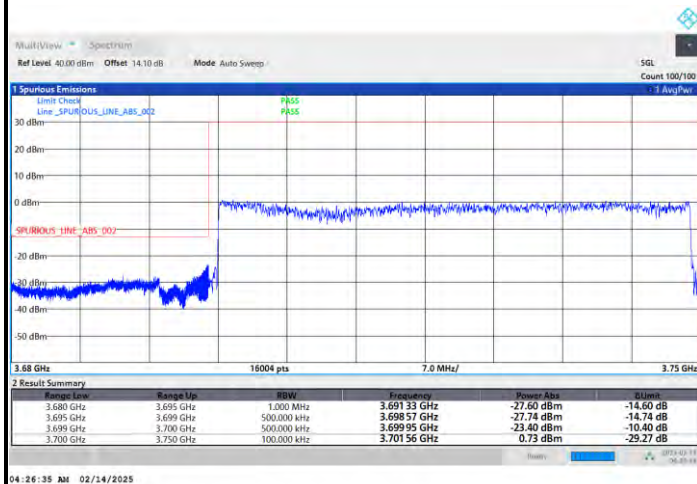


04:25:41 AM 02/14/2025

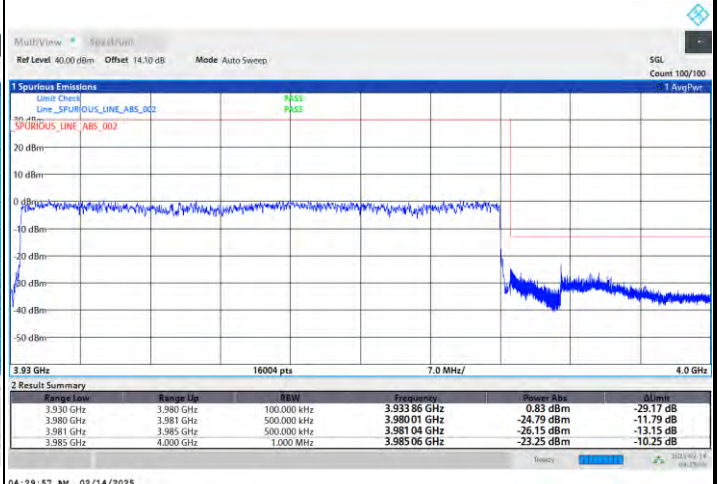


FR1 n77 / 50MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

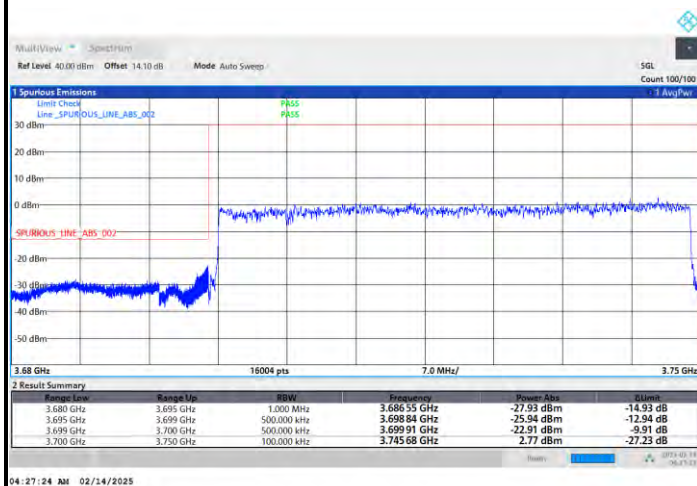


Highest Band Edge / Full RB

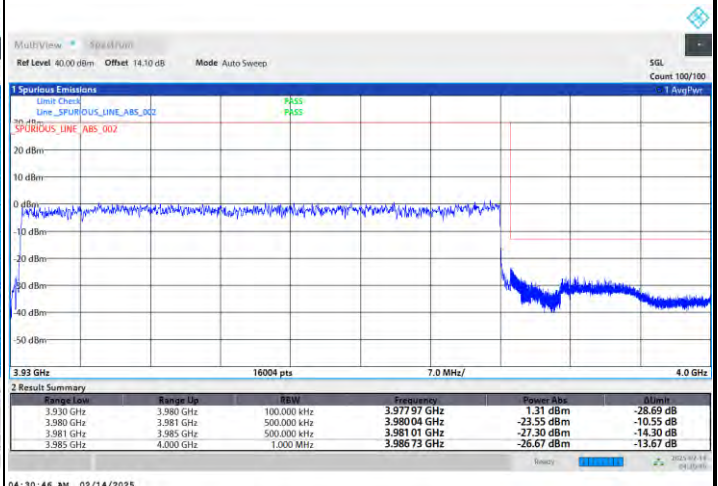


FR1 n77 / 50MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



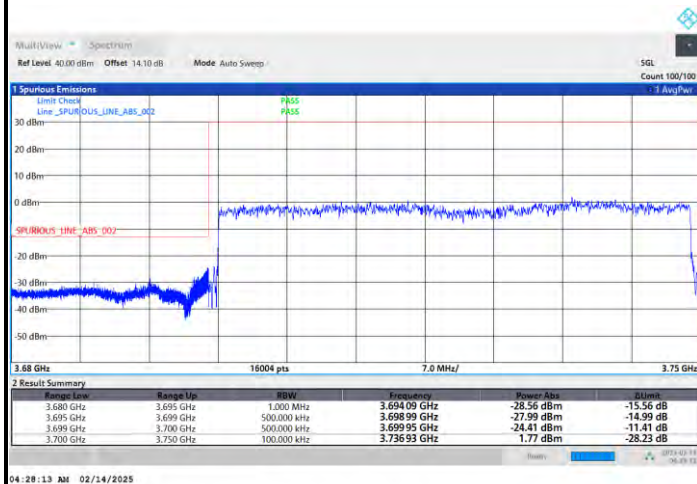
Highest Band Edge / Full RB





FR1 n77 / 50MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



04:28:13 AM 02/14/2025

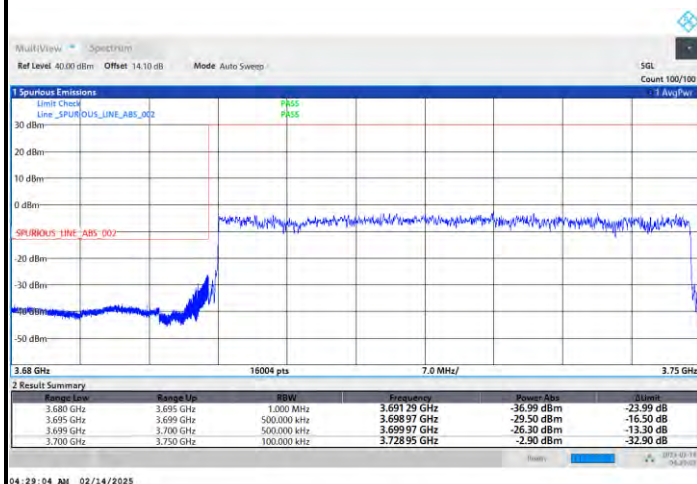
Highest Band Edge / Full RB



04:31:35 AM 02/14/2025

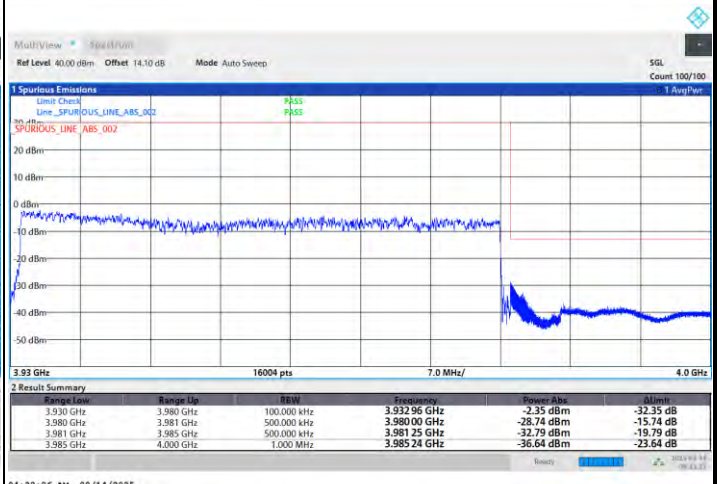
FR1 n77 / 50MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



04:29:04 AM 02/14/2025

Highest Band Edge / Full RB

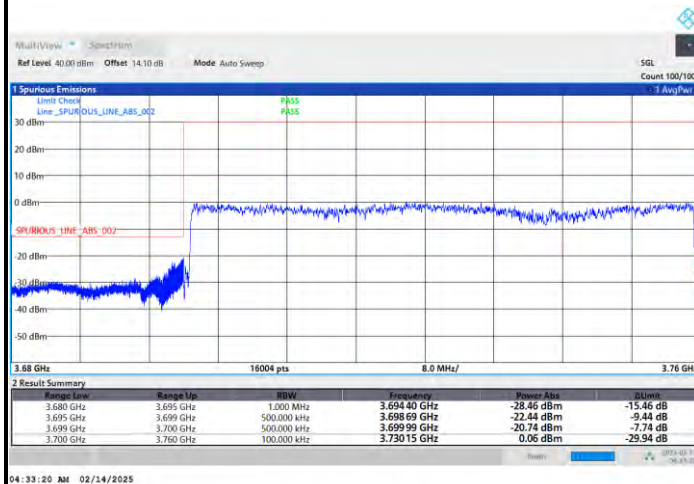


04:32:26 AM 02/14/2025



FR1 n77 / 60MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

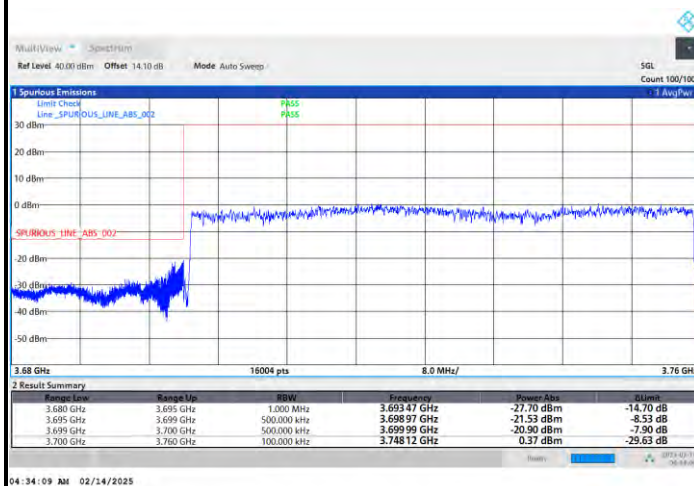


Highest Band Edge / Full RB

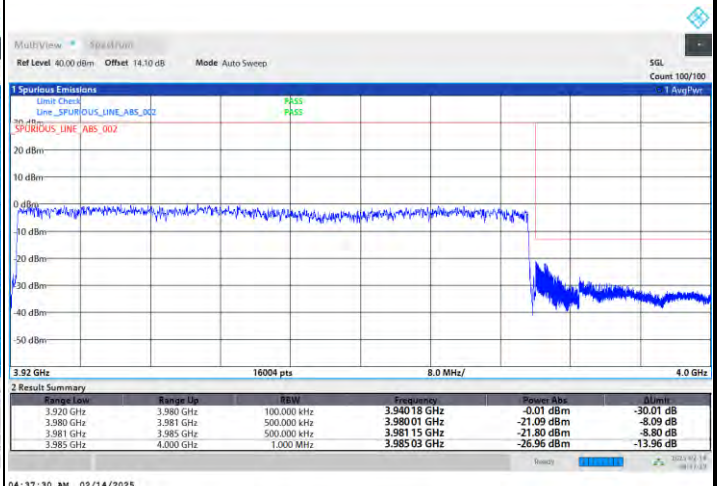


FR1 n77 / 60MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



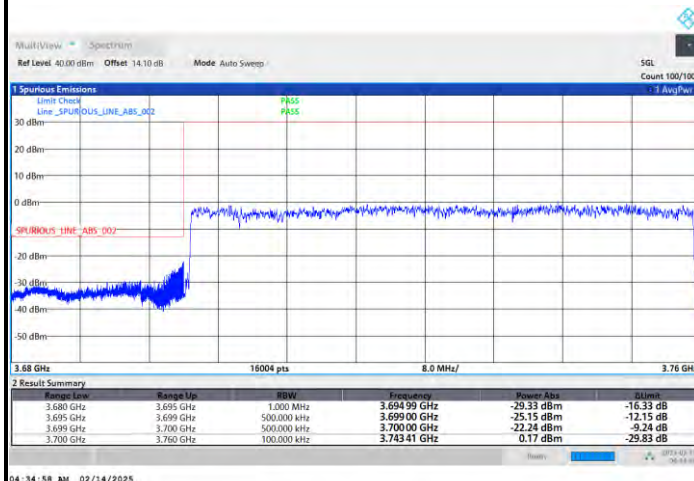
Highest Band Edge / Full RB





FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



04:34:59 AM 02/14/2025

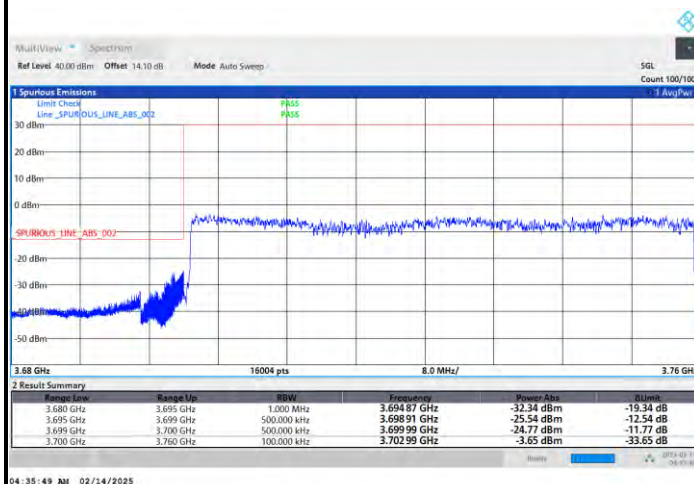
Highest Band Edge / Full RB



04:38:19 AM 02/14/2025

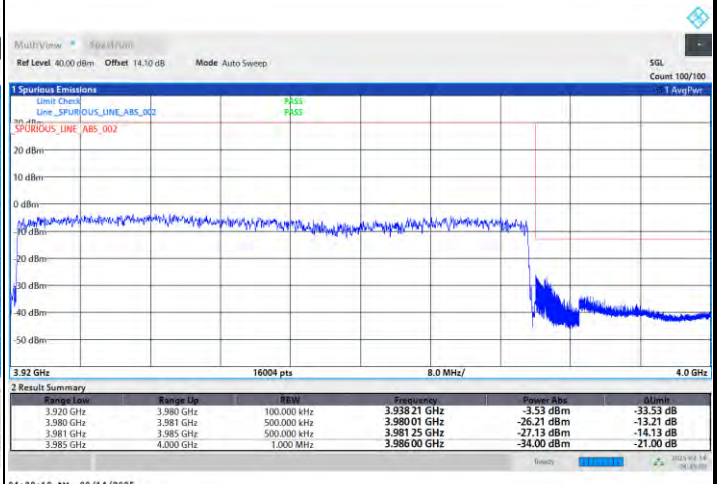
FR1 n77 / 60MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



04:35:49 AM 02/14/2025

Highest Band Edge / Full RB

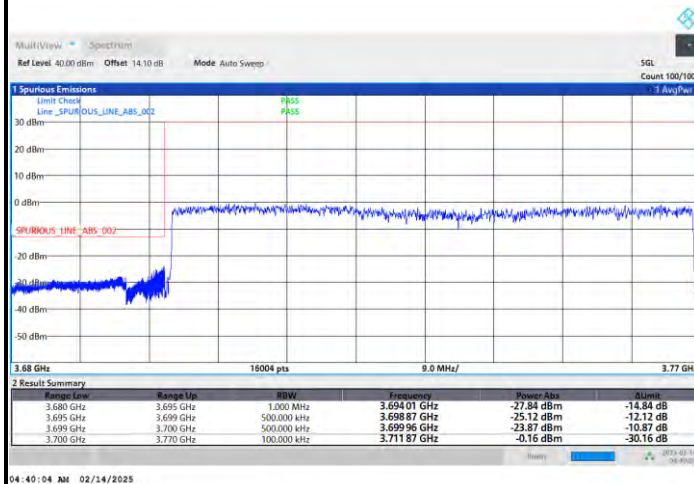


04:39:10 AM 02/14/2025

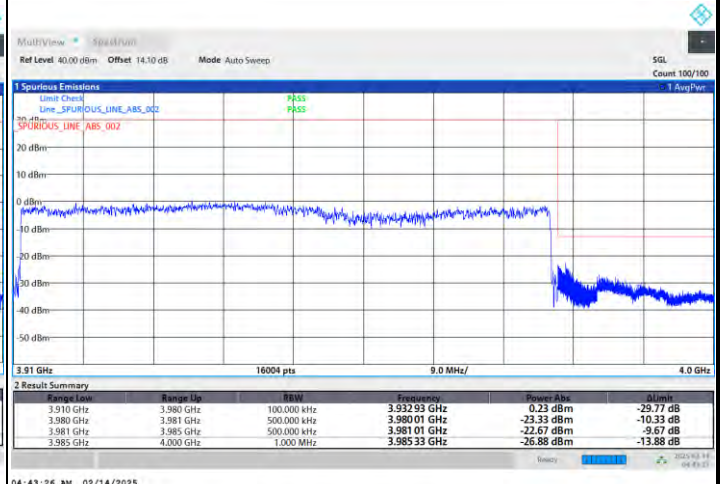


FR1 n77 / 70MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

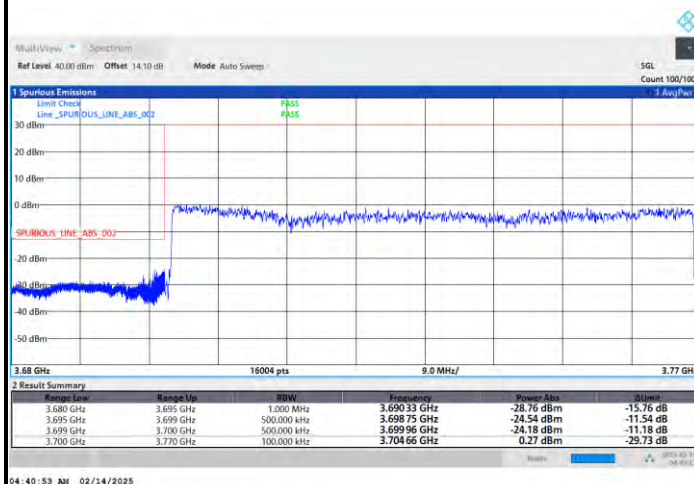


Highest Band Edge / Full RB

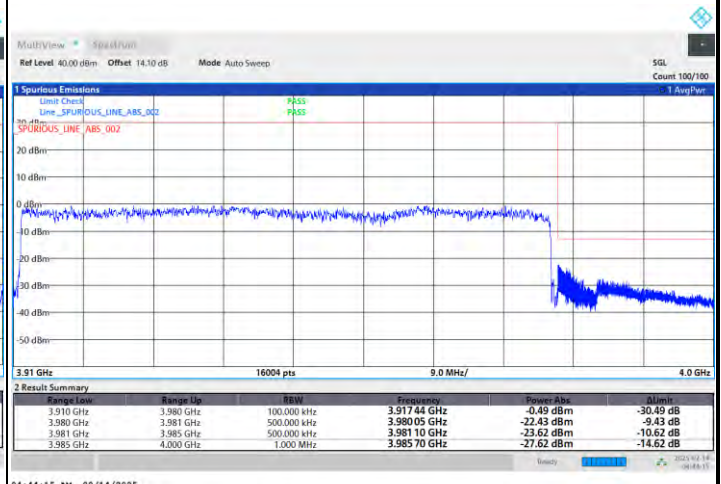


FR1 n77 / 70MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



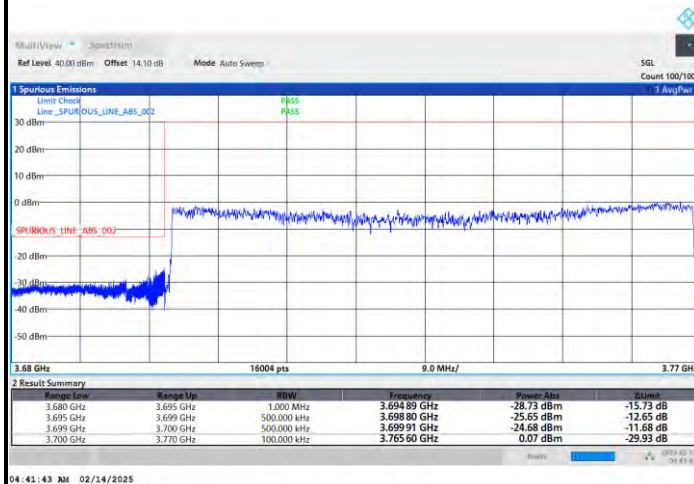
Highest Band Edge / Full RB





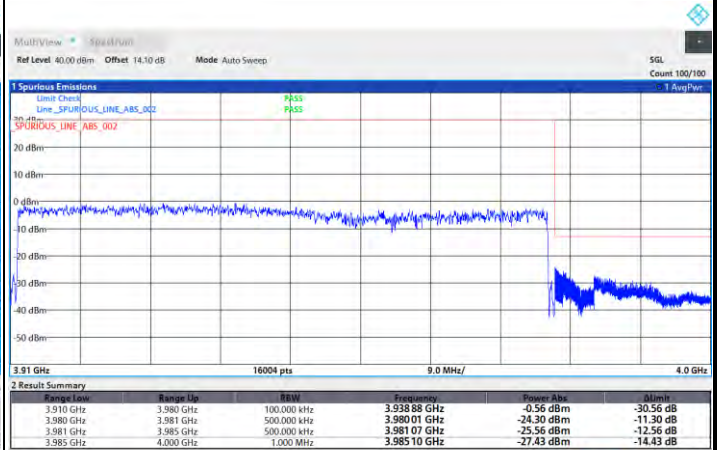
FR1 n77 / 70MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



04:41:43 AM 02/14/2025

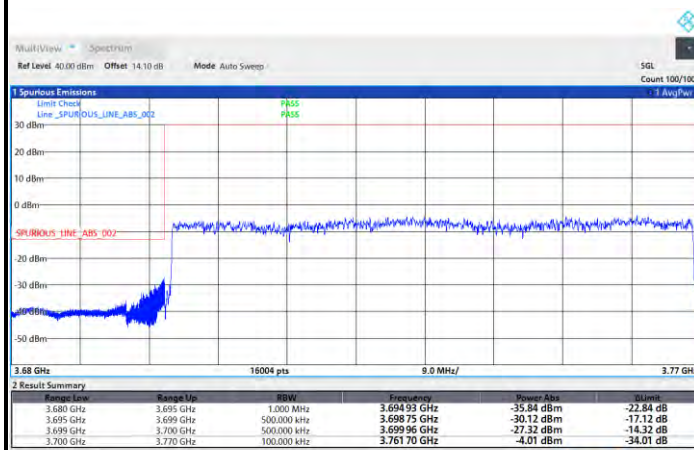
Highest Band Edge / Full RB



04:45:04 AM 02/14/2025

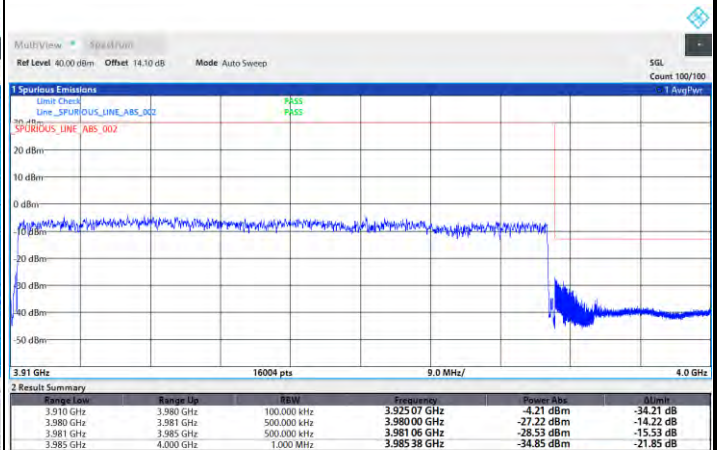
FR1 n77 / 70MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



04:42:34 AM 02/14/2025

Highest Band Edge / Full RB

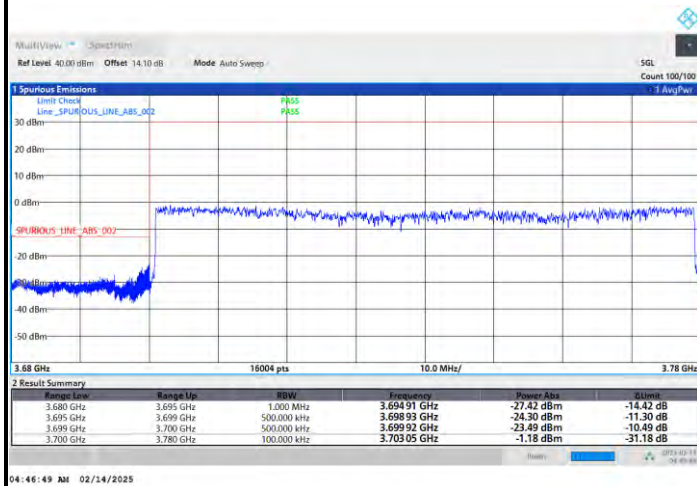


04:45:55 AM 02/14/2025



FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



04:46:49 AM 02/14/2025

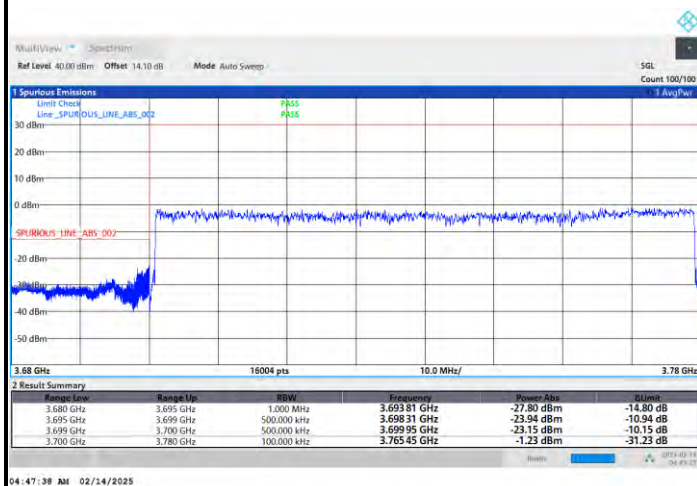
Highest Band Edge / Full RB



04:50:10 AM 02/14/2025

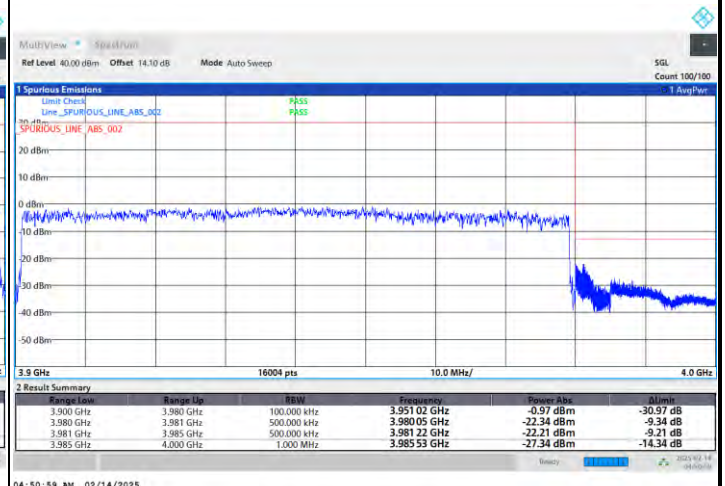
FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



04:47:38 AM 02/14/2025

Highest Band Edge / Full RB

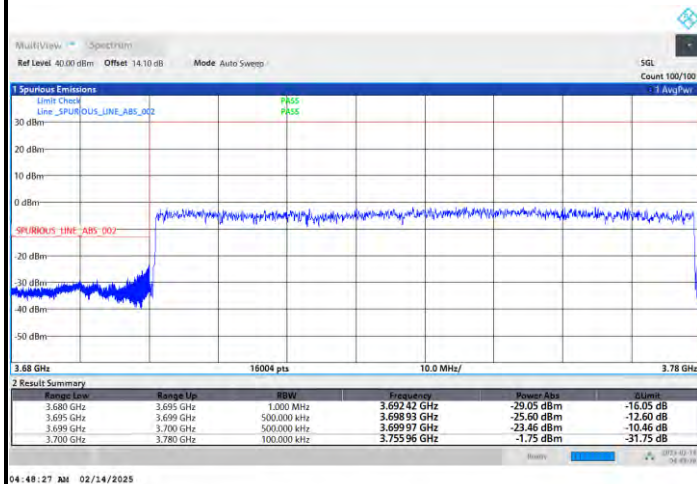


04:50:59 AM 02/14/2025

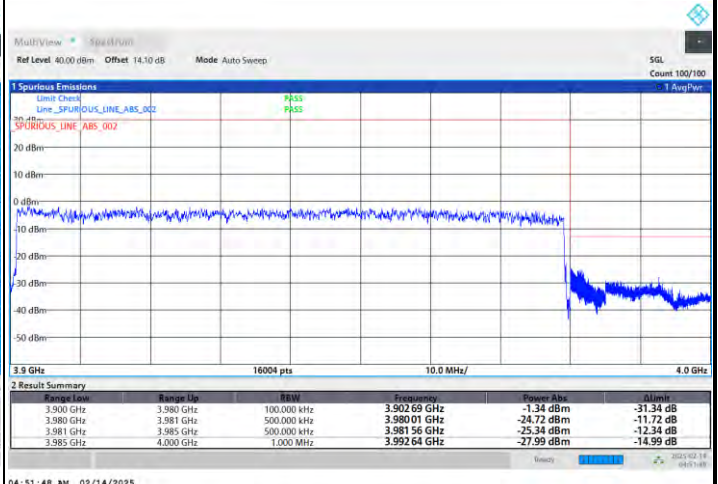


FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

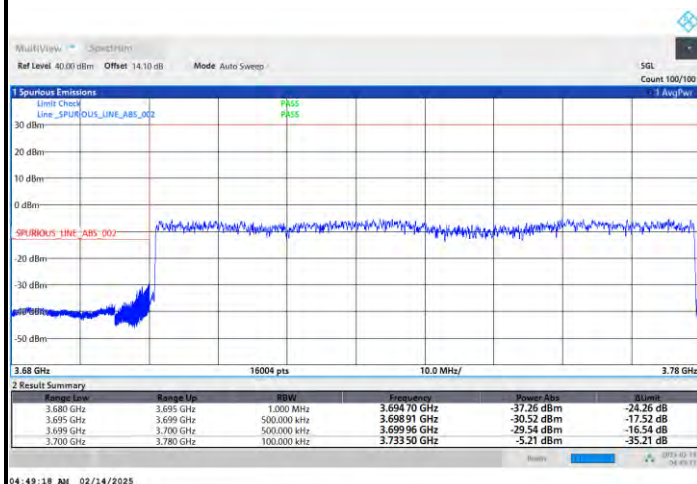


Highest Band Edge / Full RB

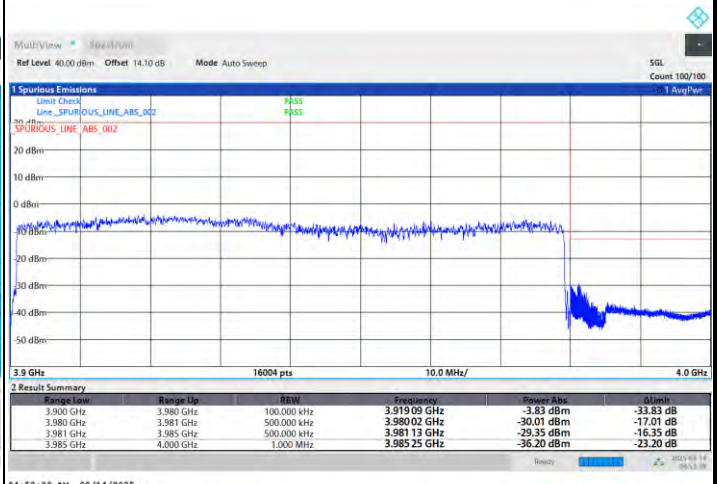


FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



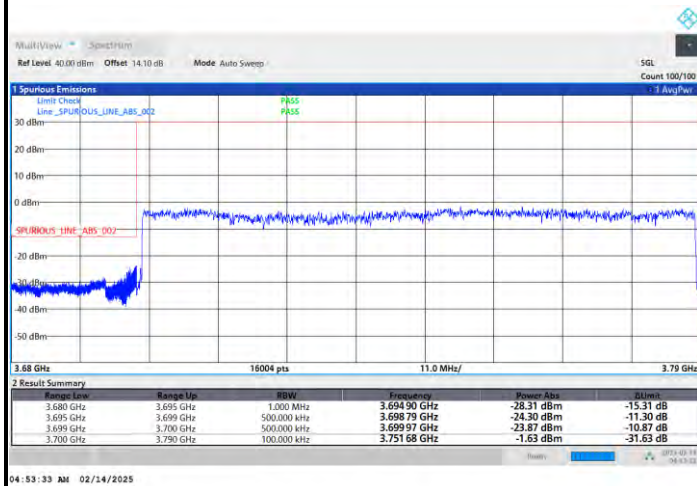
Highest Band Edge / Full RB



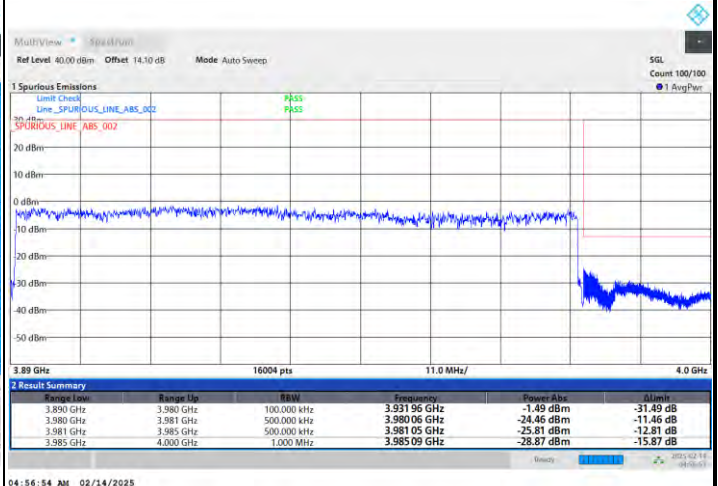


FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

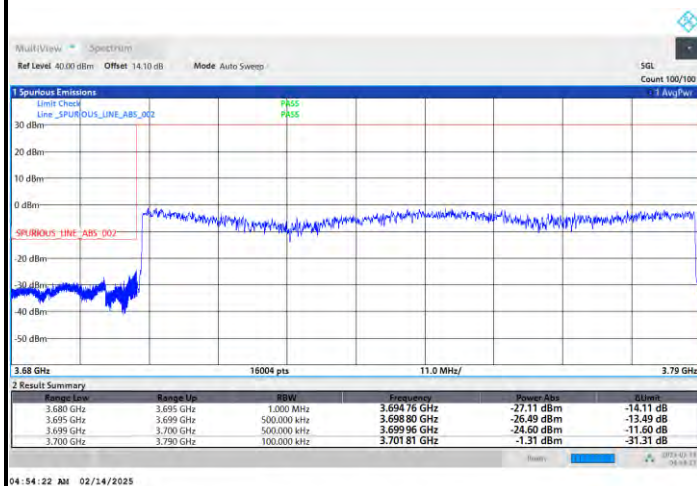


Highest Band Edge / Full RB

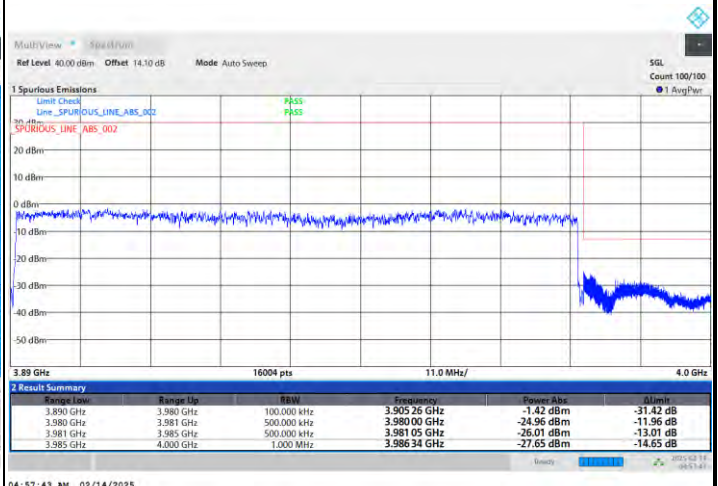


FR1 n77 / 90MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



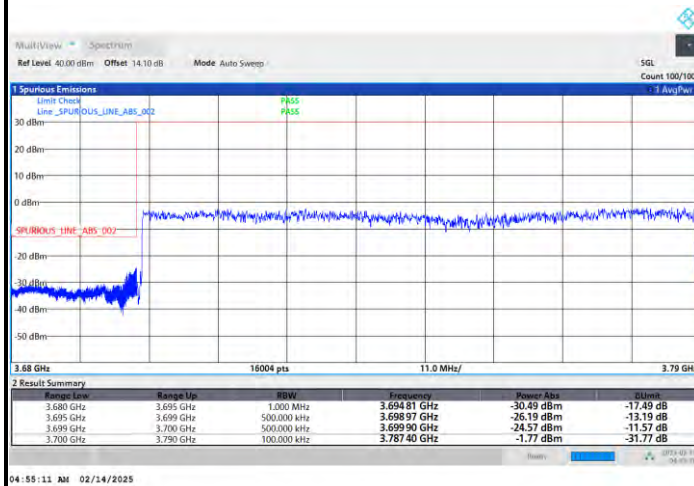
Highest Band Edge / Full RB





FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

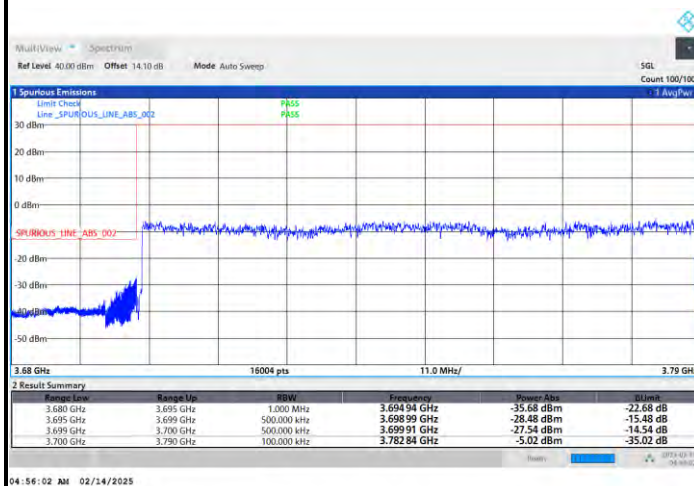


Highest Band Edge / Full RB

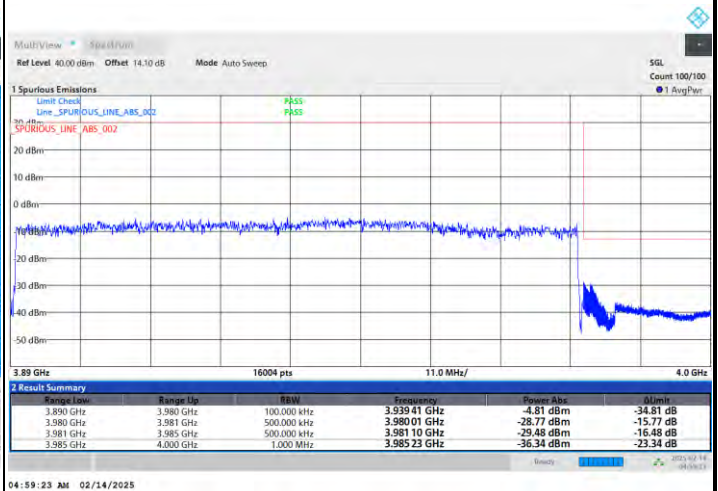


FR1 n77 / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



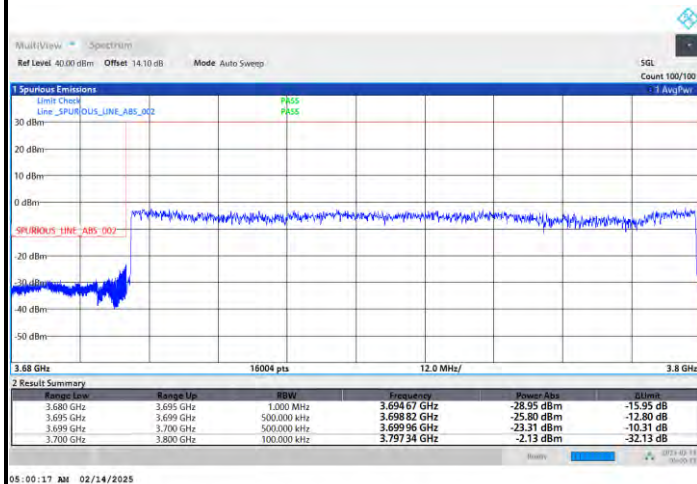
Highest Band Edge / Full RB





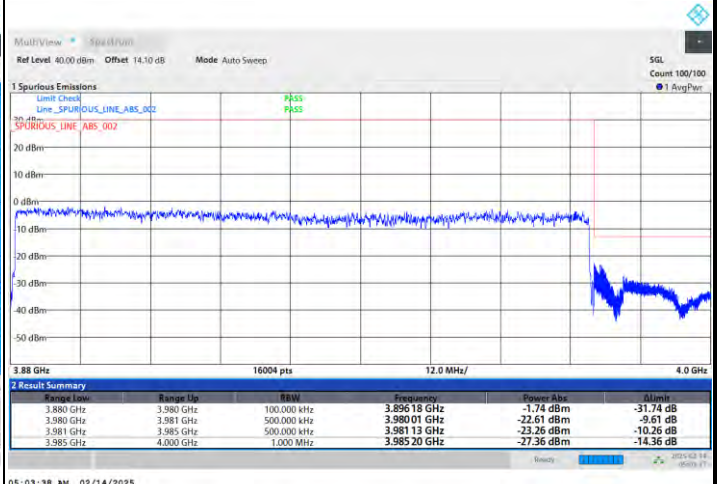
FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



05:00:17 AM 02/14/2025

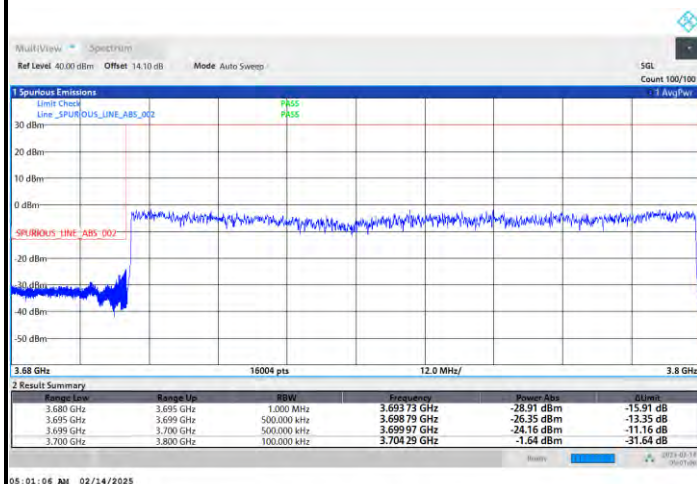
Highest Band Edge / Full RB



05:03:38 AM 02/14/2025

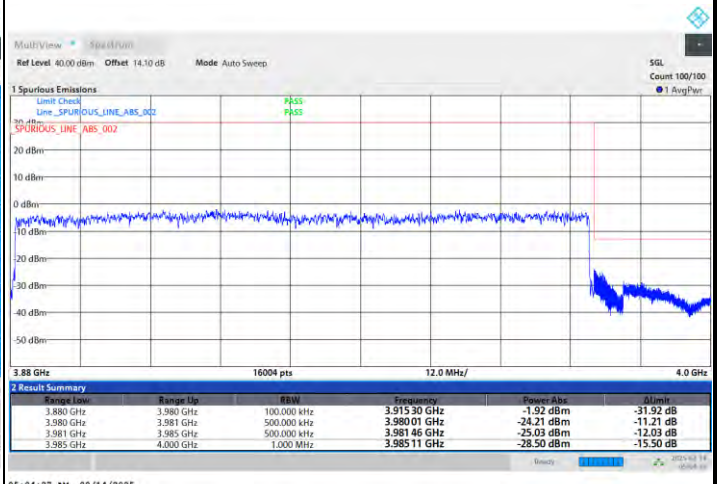
FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB



05:01:06 AM 02/14/2025

Highest Band Edge / Full RB

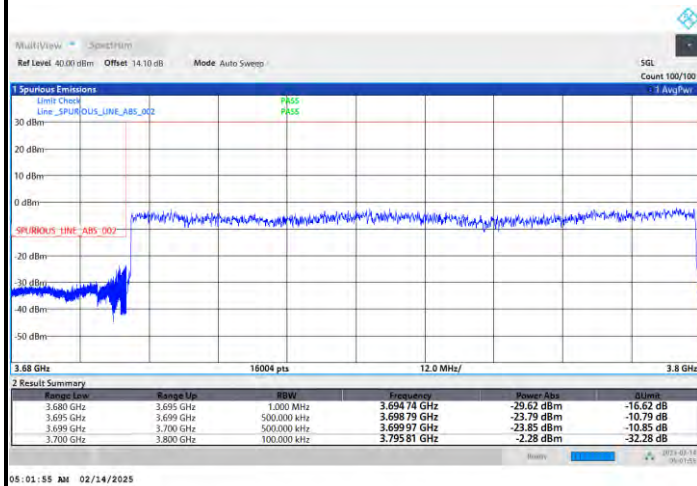


05:04:27 AM 02/14/2025



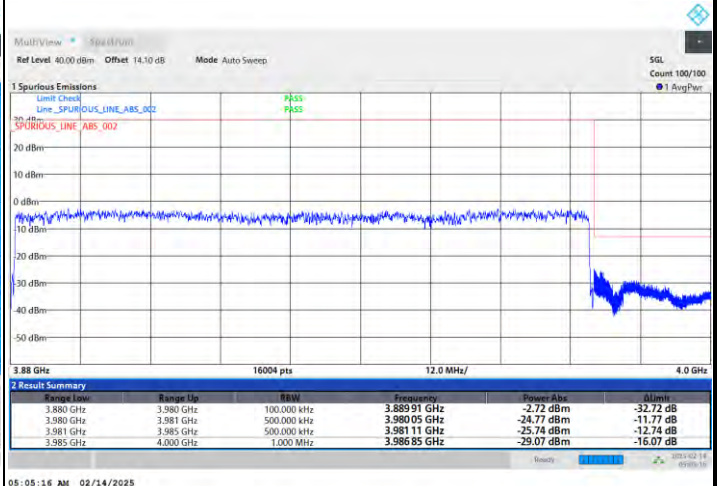
FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB



05:01:55 AM 02/14/2025

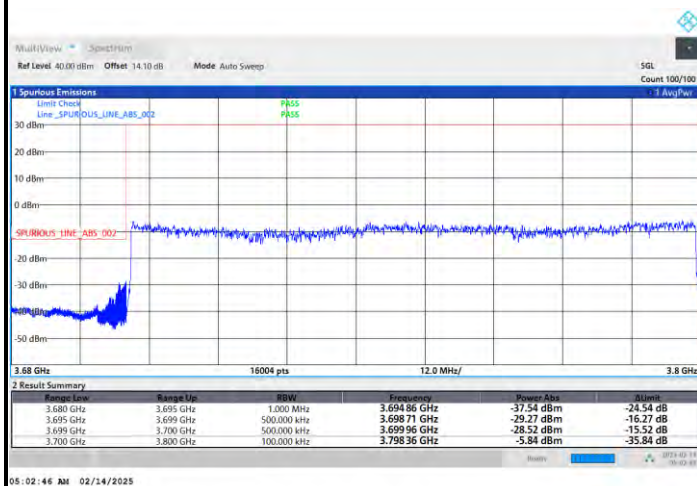
Highest Band Edge / Full RB



05:01:16 AM 02/14/2025

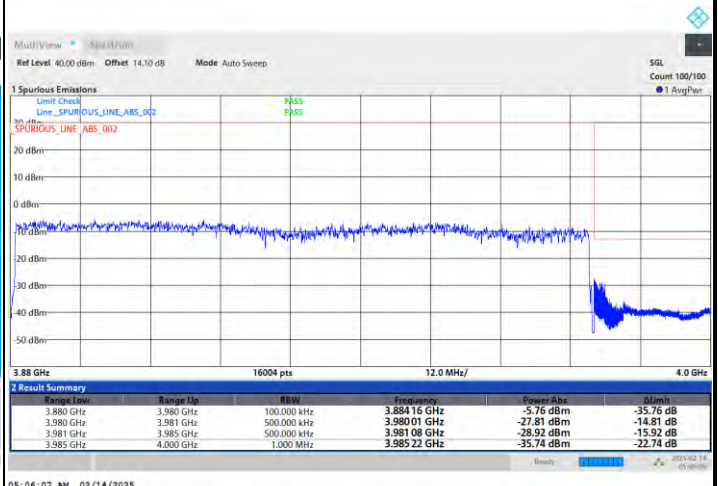
FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



05:02:46 AM 02/14/2025

Highest Band Edge / Full RB



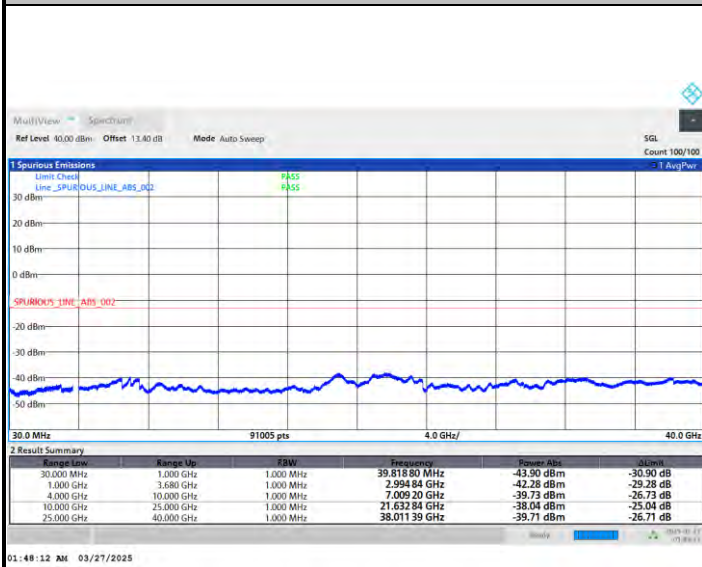
05:06:07 AM 02/14/2025



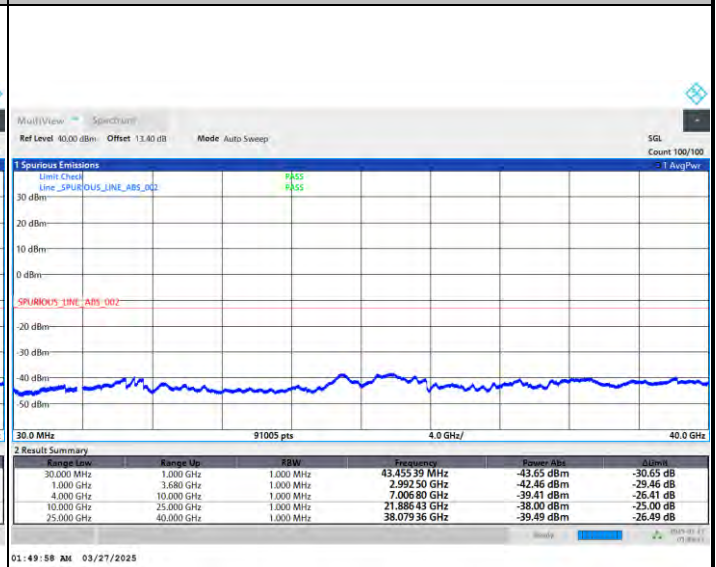
Conducted Spurious Emission

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

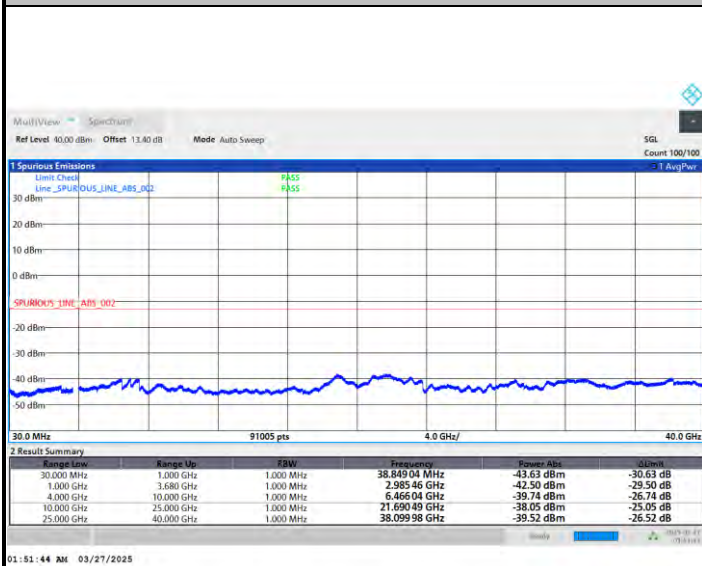
Lowest Channel



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	0.0031	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0031	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0007	
20	Minimum Voltage	0.0015	

Note:

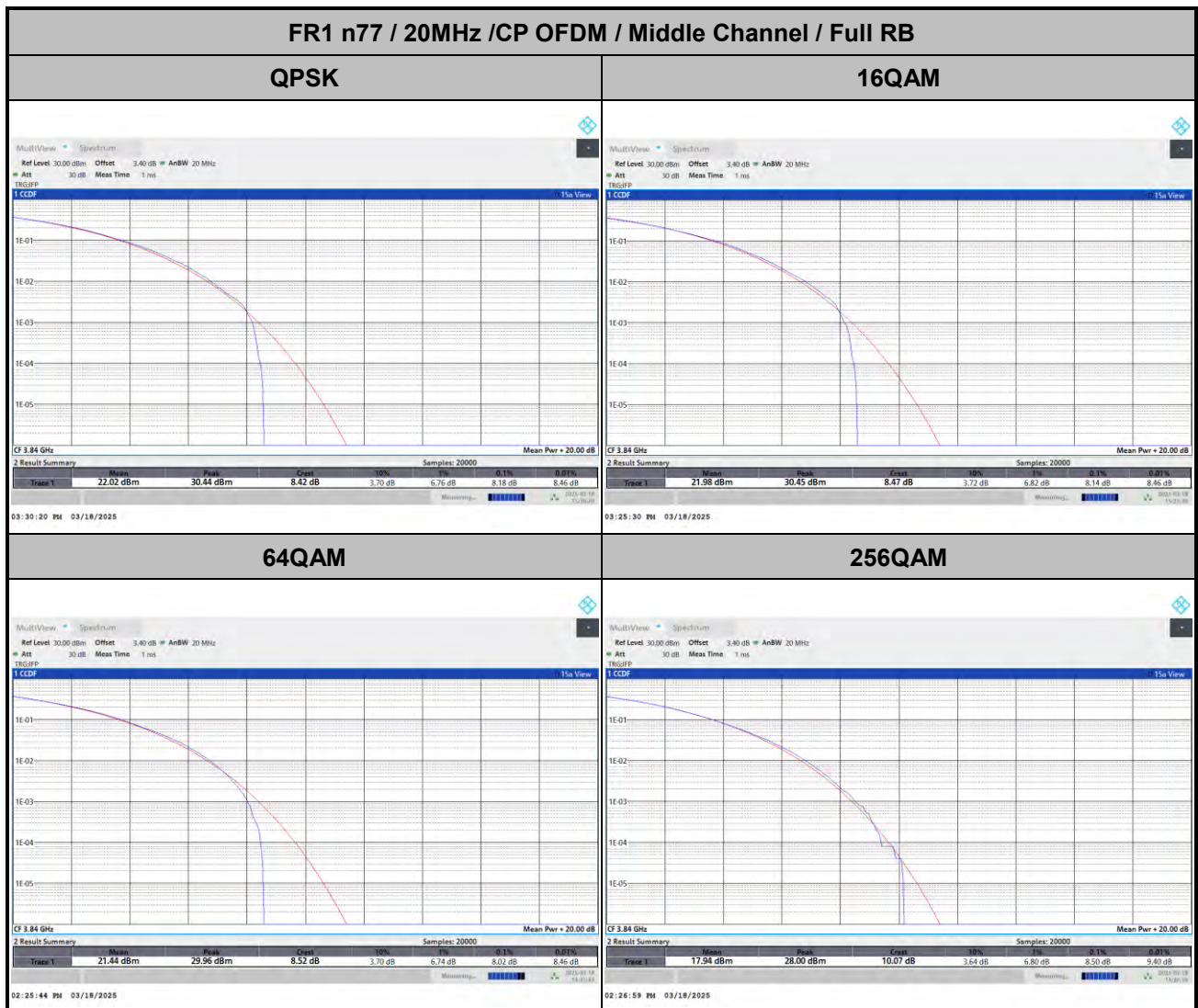
1. Normal Voltage = 3.89 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <Ant. 2>

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	8.18	8.14	8.02	8.50	PASS



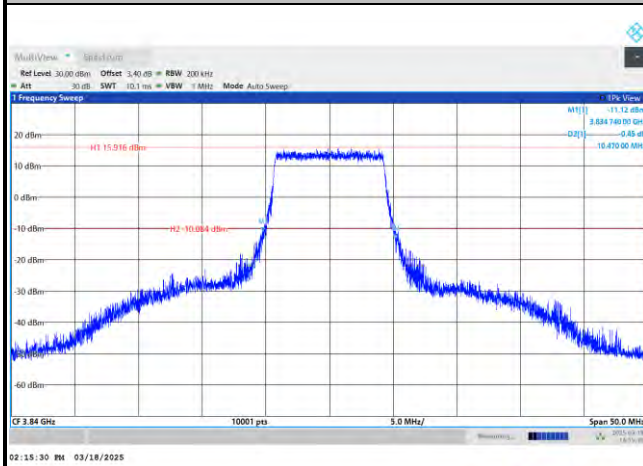
**26dB Bandwidth**

Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.47	10.51	15.47	15.36	20.36	20.16	25.82	25.57
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.50	10.44	15.64	15.42	19.93	20.21	25.82	25.53
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	31.14	31.14	43.25	42.71	52.59	52.07	67.77	68.19
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	30.95	30.73	42.58	42.22	52.54	51.67	66.45	66.84
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	77.65	76.77	84.53	84.47	96.76	96.60	106.69	107.24
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	77.23	76.73	85.42	84.18	97.44	96.49	106.62	106.44

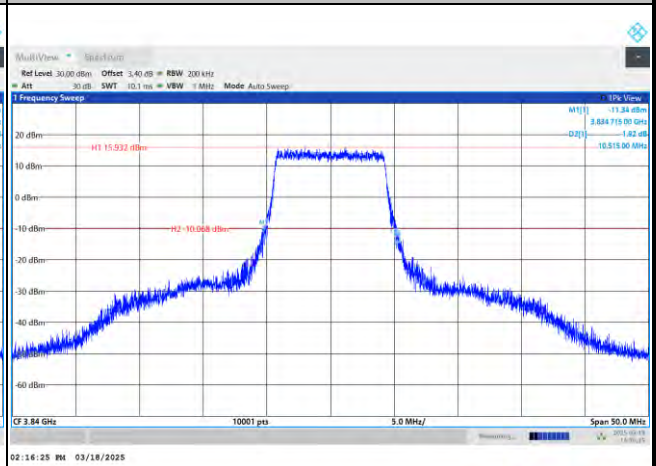


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

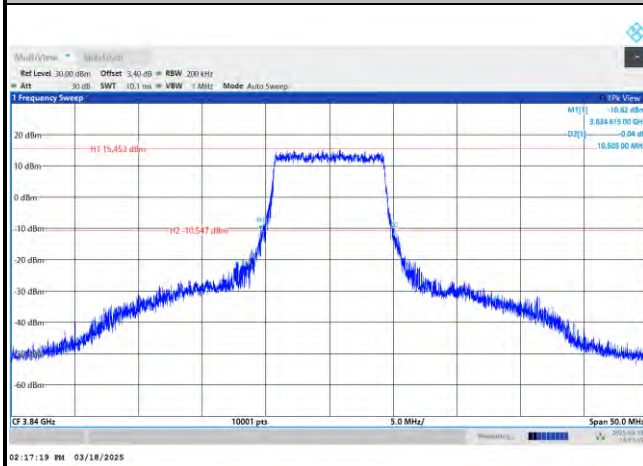
QPSK



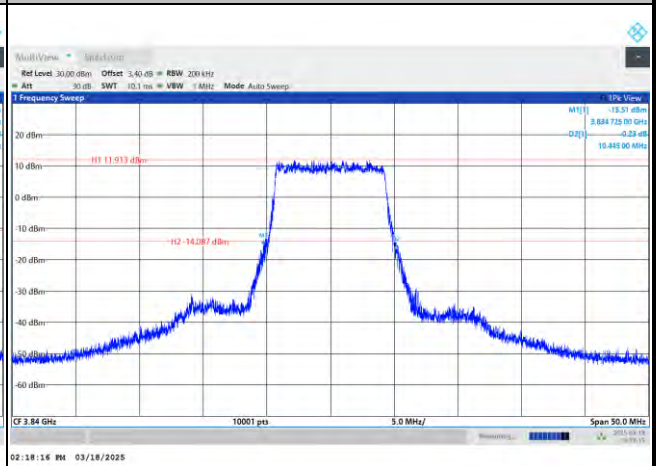
16QAM



64QAM



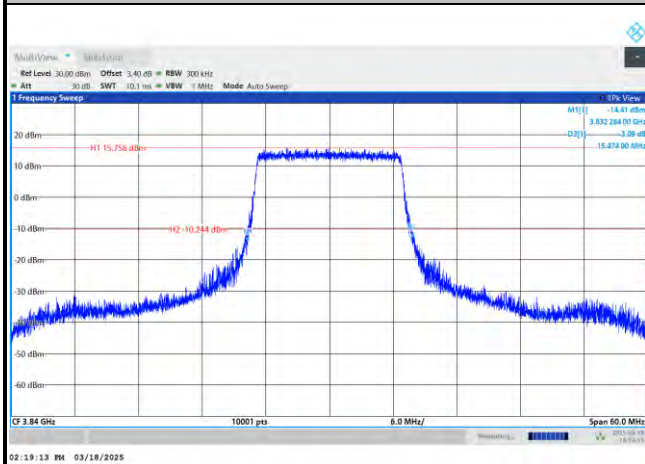
256QAM



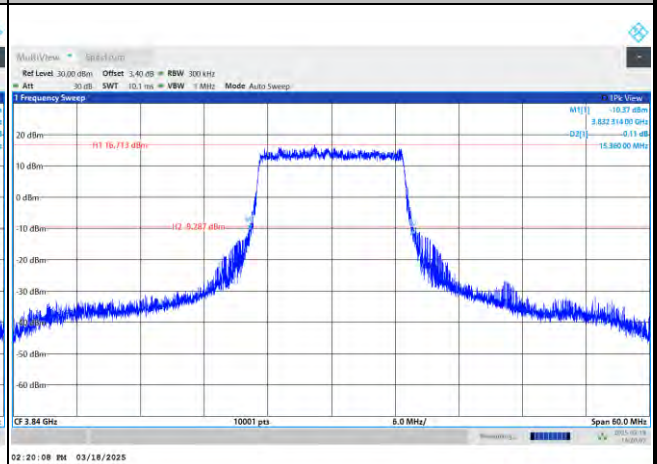


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

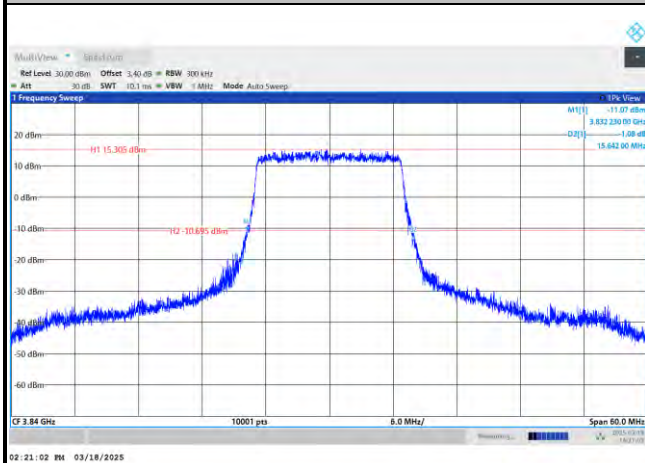
QPSK



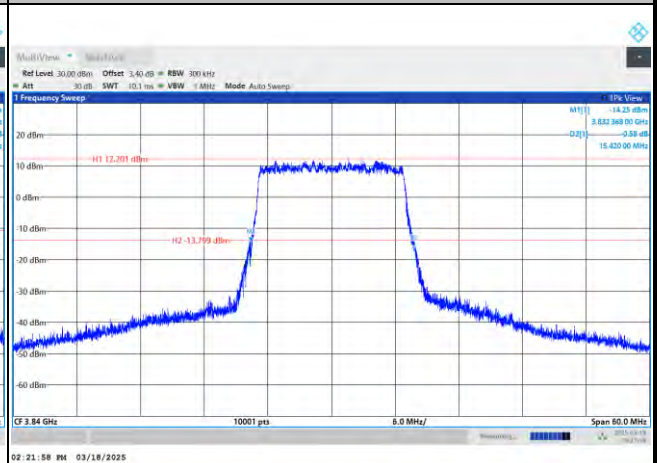
16QAM



64QAM



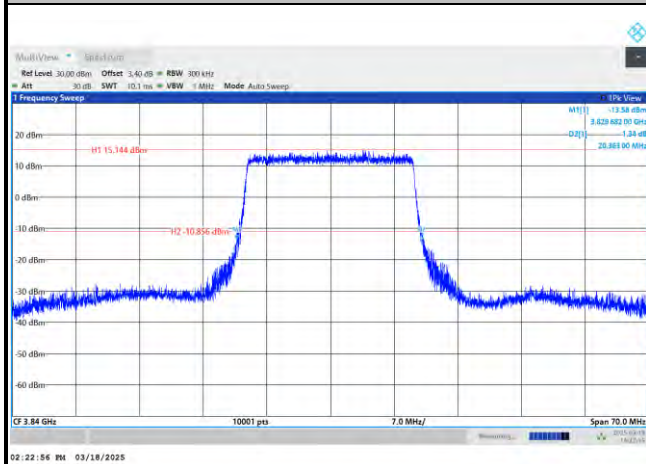
256QAM



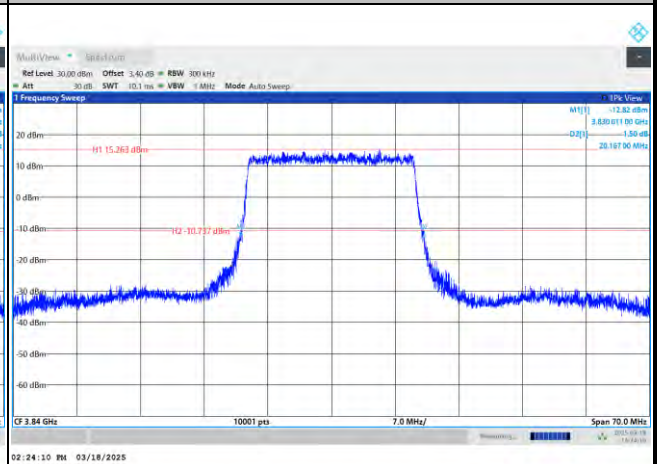


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

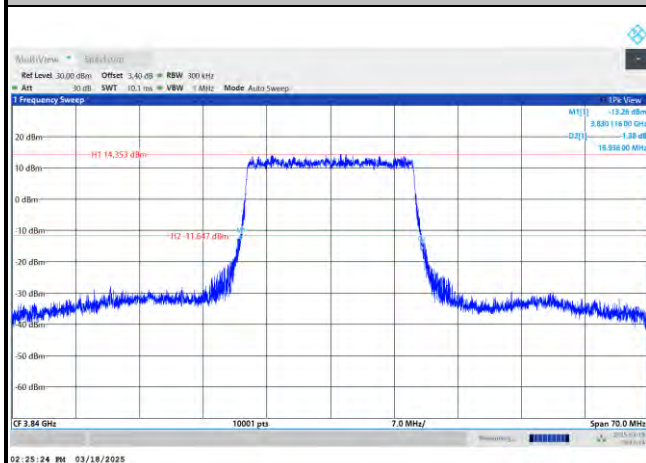
QPSK



16QAM



64QAM



256QAM

