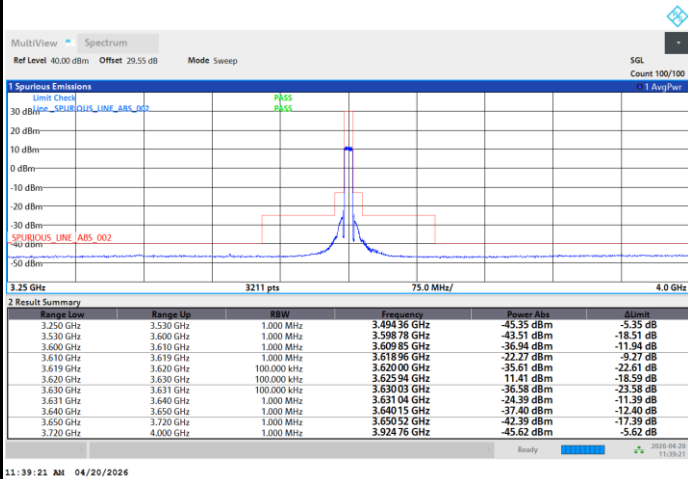


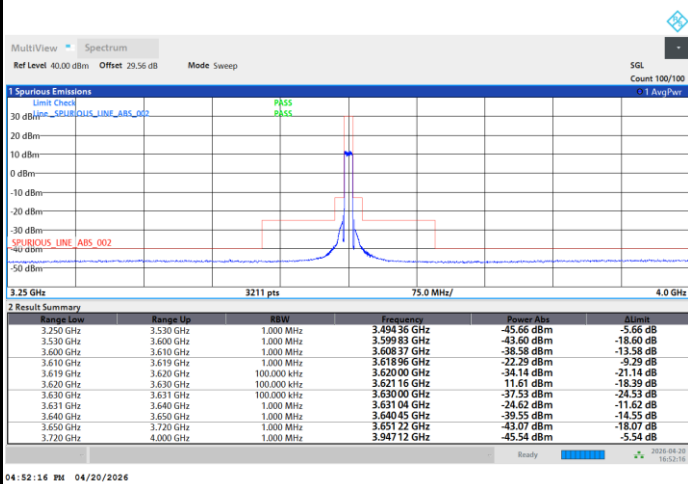


FR1 n48 / 10MHz / Middle Channel / MASK

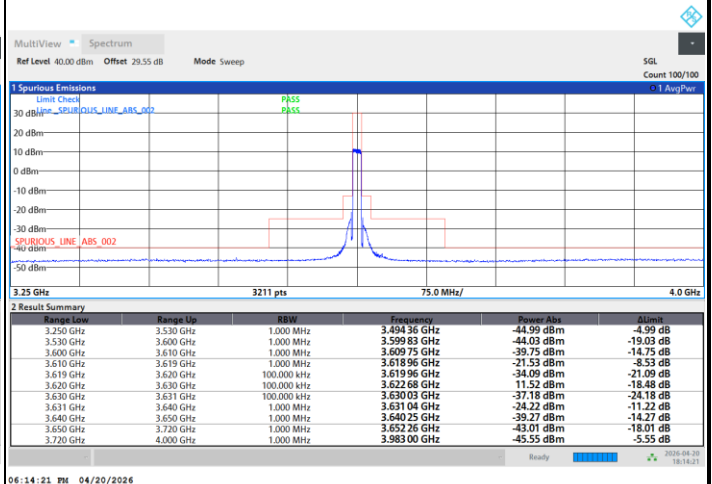
QPSK



64QAM



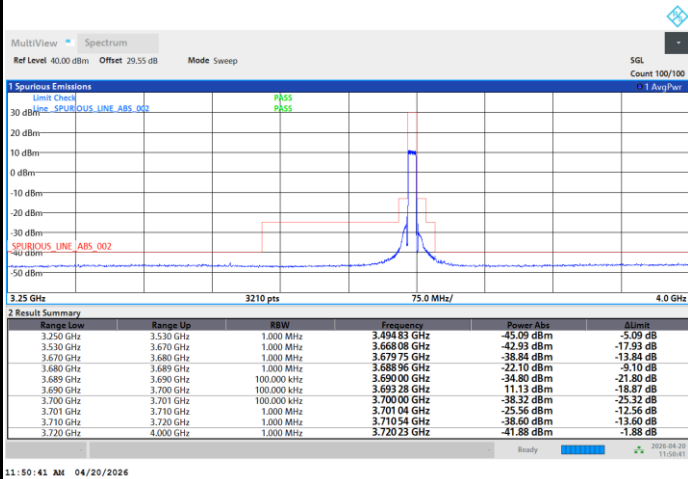
256QAM



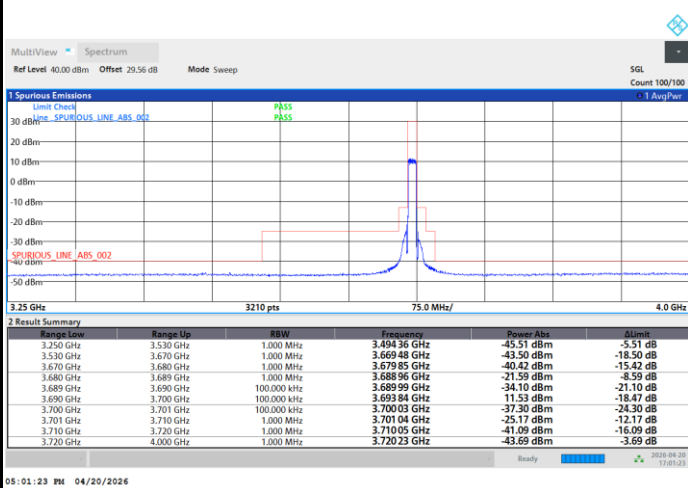


FR1 n48 / 10MHz / Highest Channel / MASK

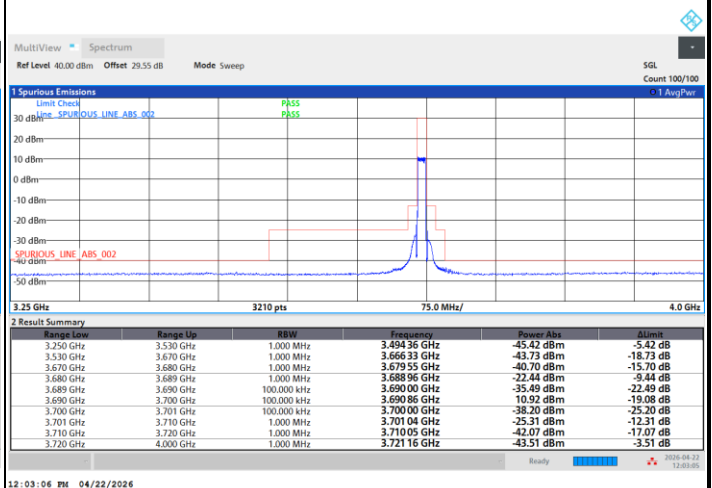
QPSK



64QAM



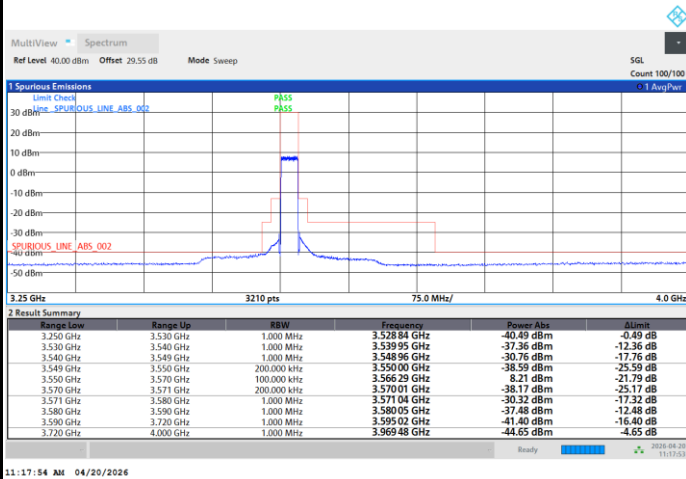
256QAM



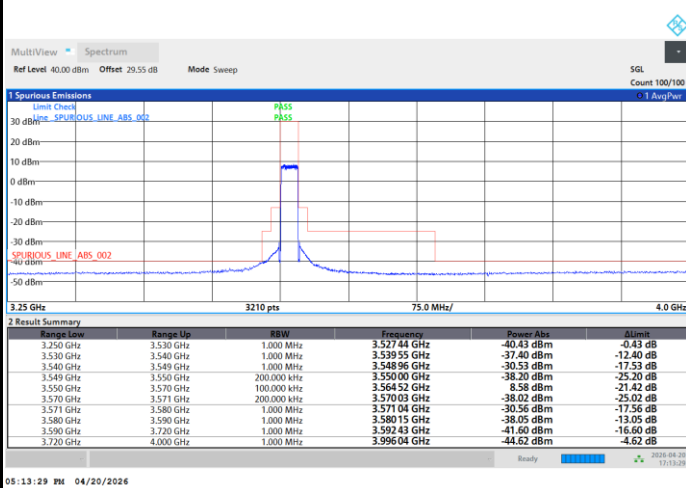


FR1 n48 / 20MHz / Lowest Channel / MASK

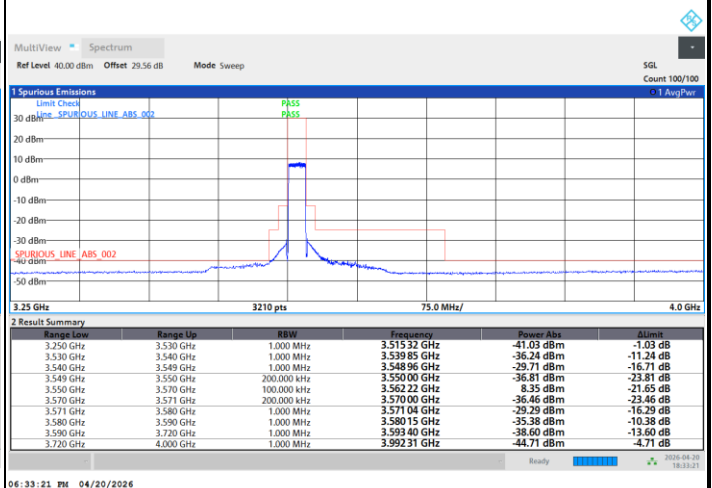
QPSK



64QAM



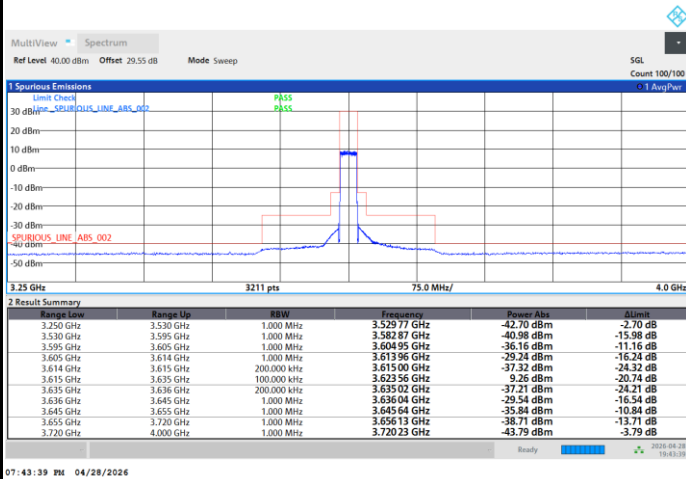
256QAM



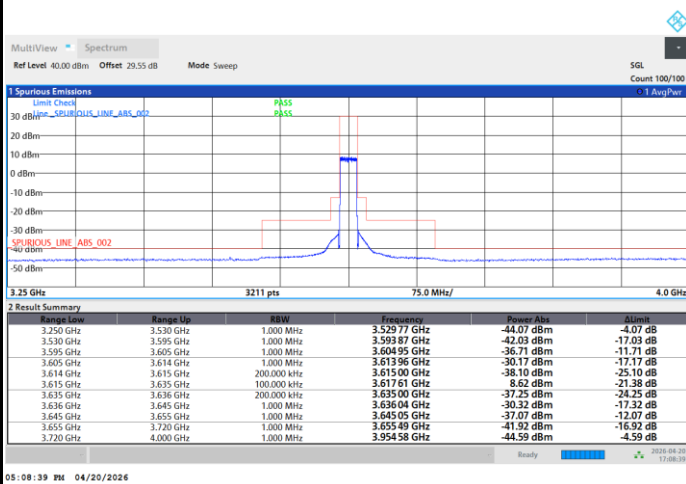


FR1 n48 / 20MHz / Middle Channel / MASK

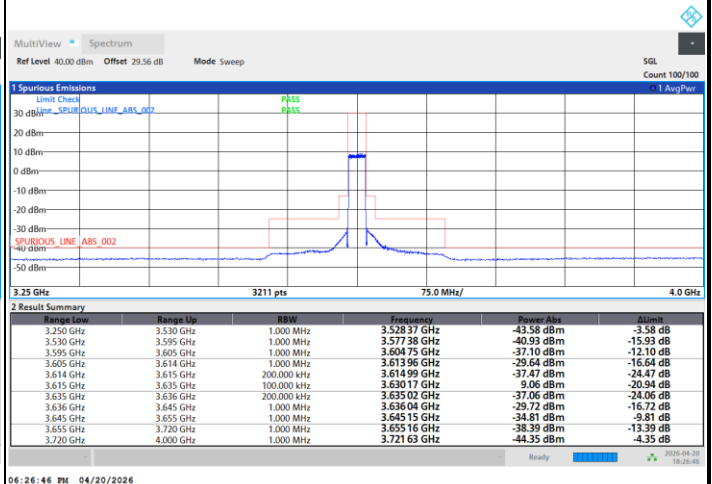
QPSK



64QAM



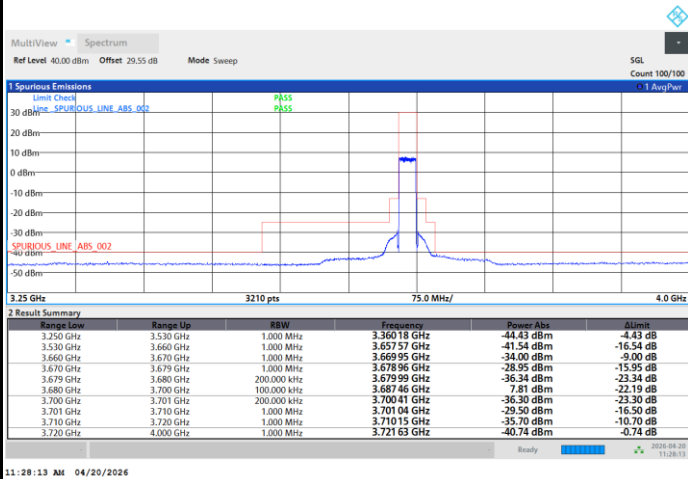
256QAM



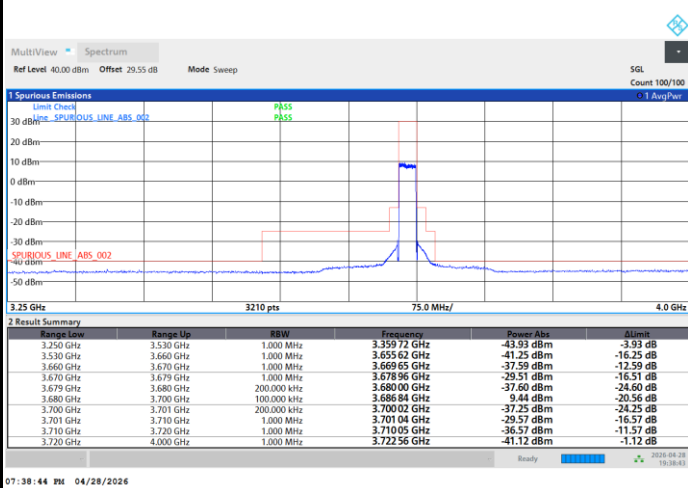


FR1 n48 / 20MHz / Highest Channel / MASK

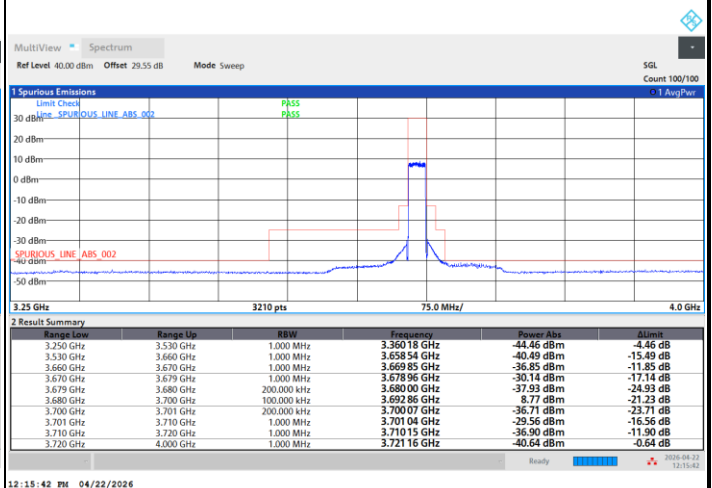
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64QAM



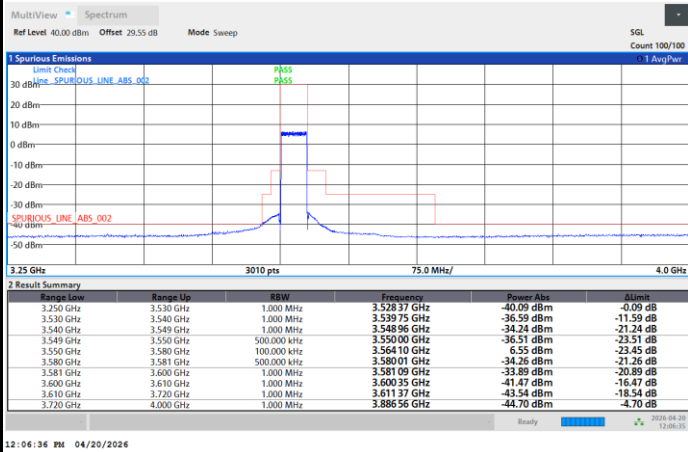
256QAM



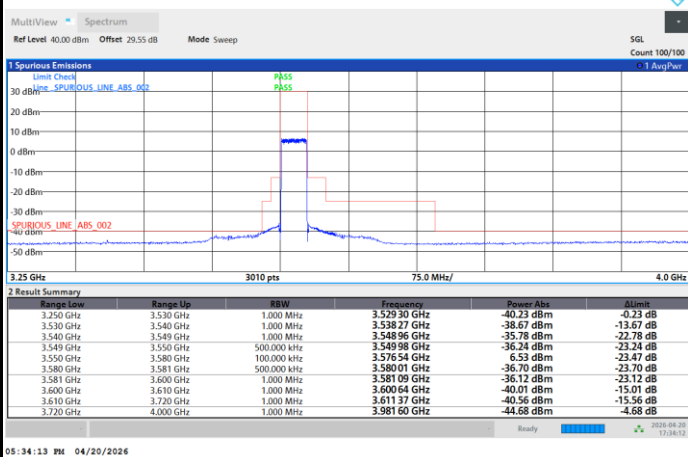


FR1 n48 / 30MHz / Lowest Channel / MASK

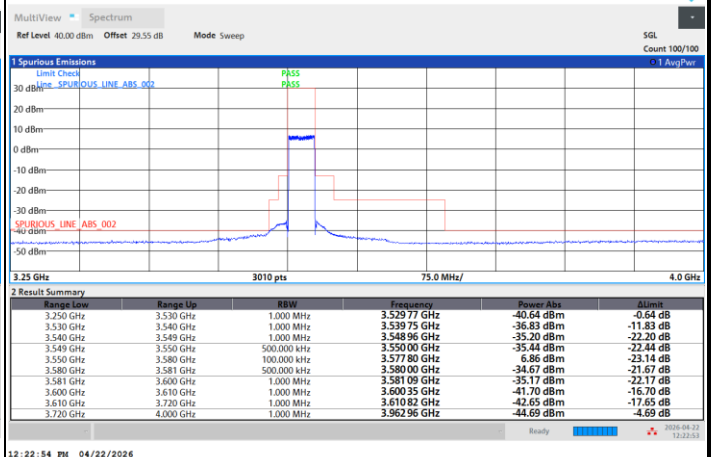
QPSK



64QAM



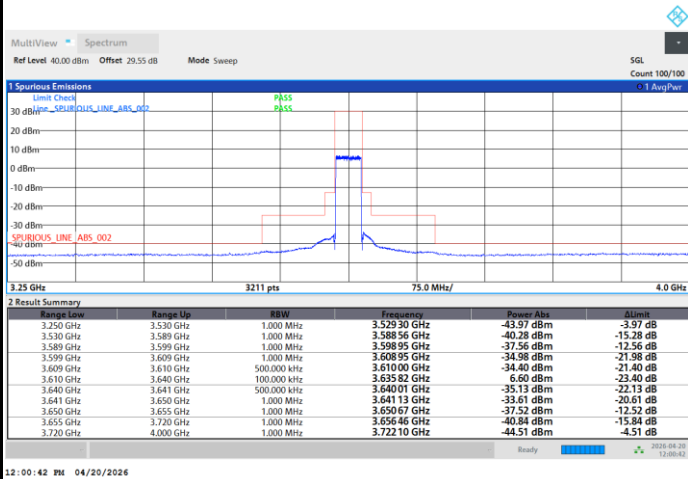
256QAM



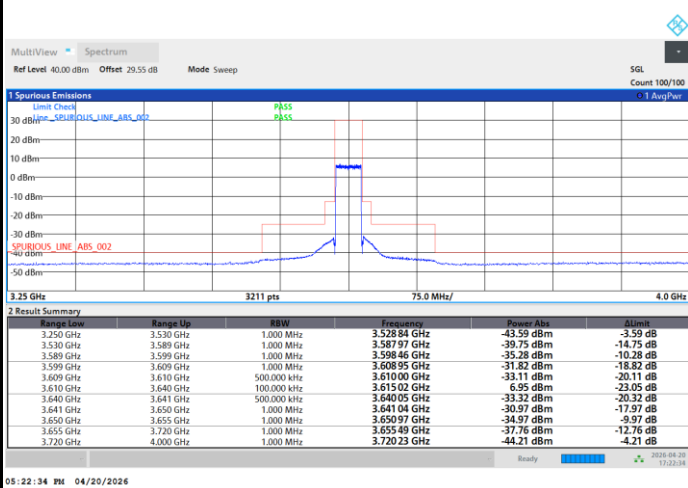


FR1 n48 / 30MHz / Middle Channel / MASK

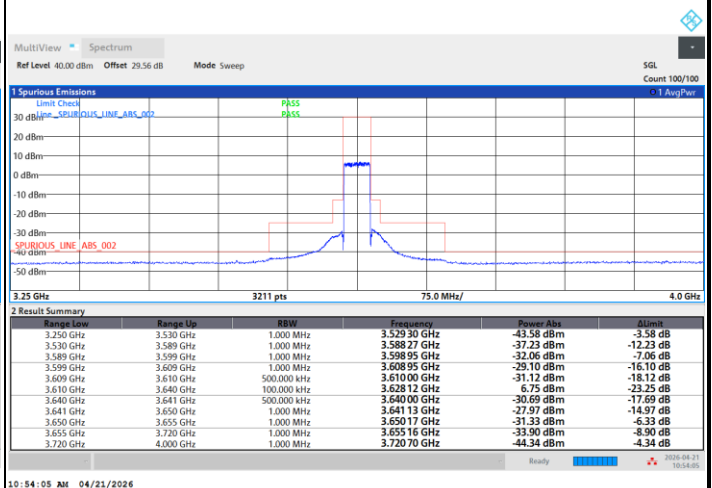
QPSK



64QAM



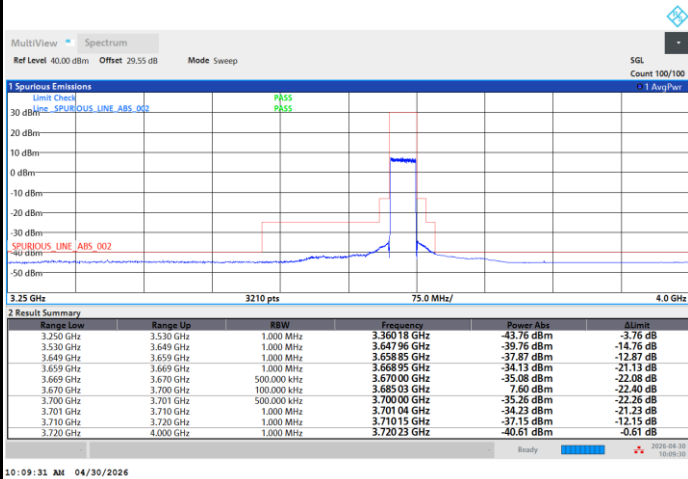
256QAM



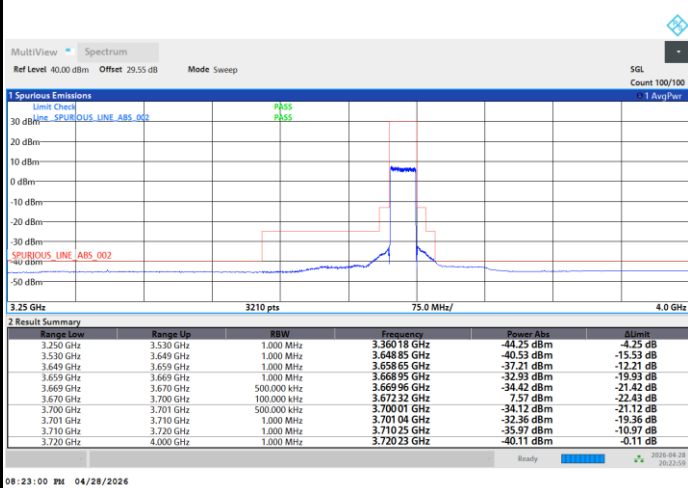


FR1 n48 / 30MHz / Highest Channel / MASK

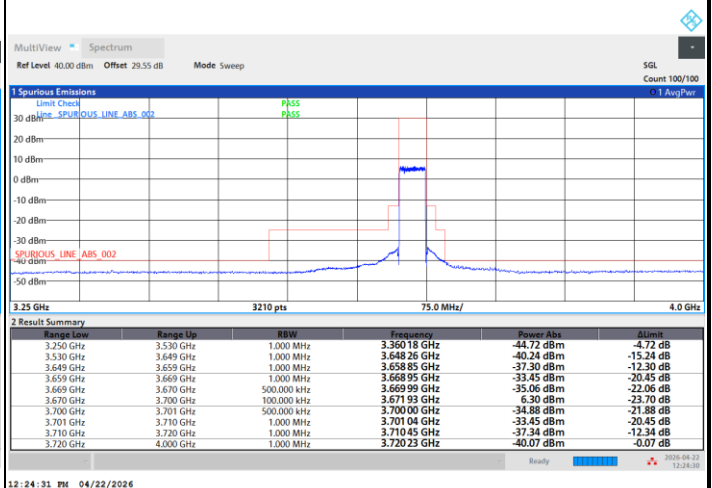
QPSK



64QAM



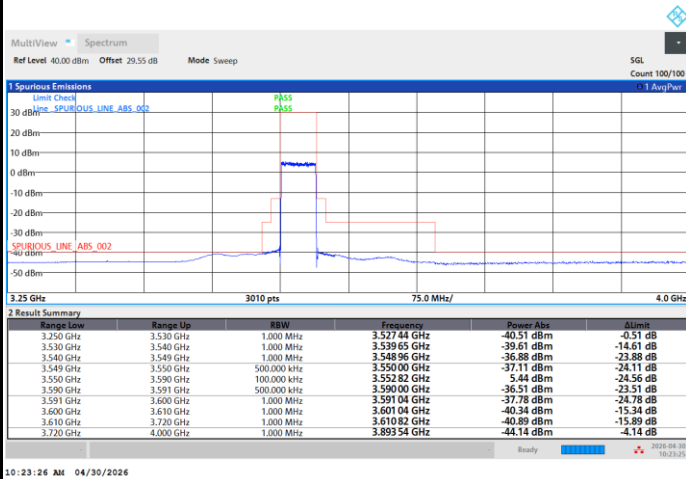
256QAM



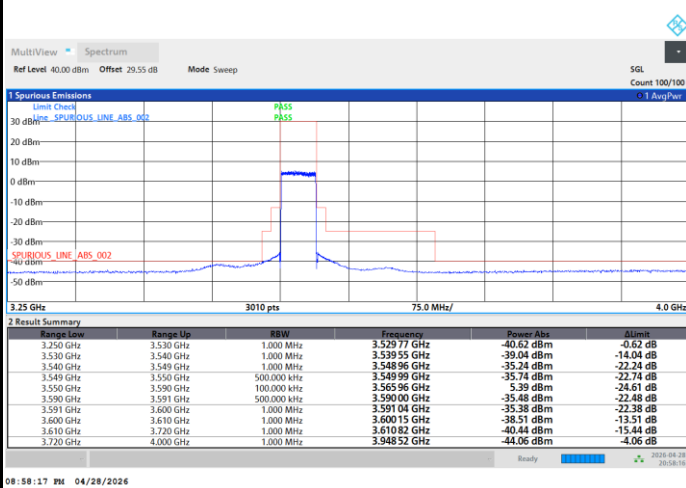


FR1 n48 / 40MHz / Lowest Channel / MASK

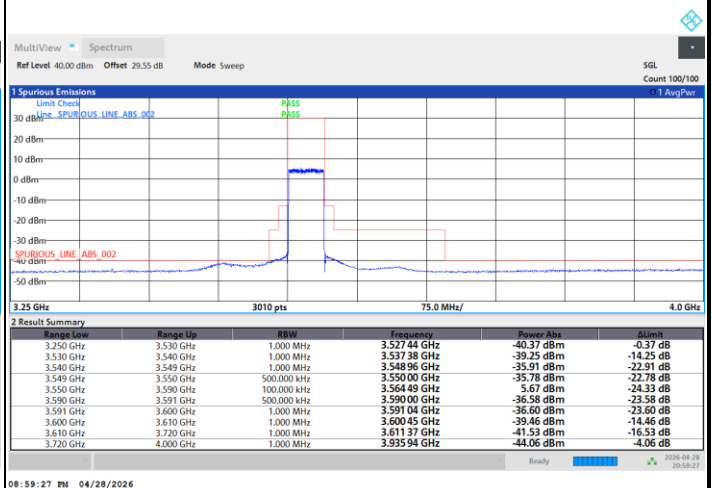
QPSK



64QAM



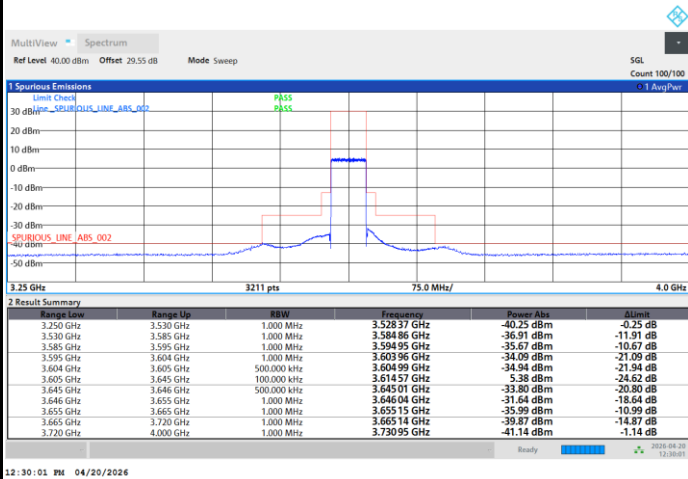
256QAM



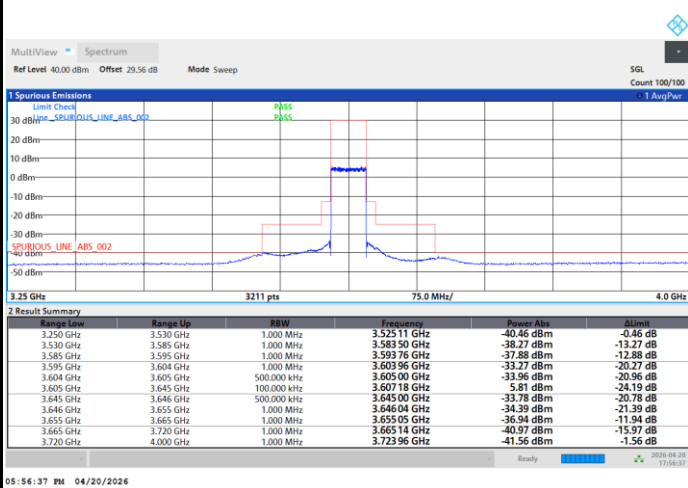


FR1 n48 / 40MHz / Middle Channel / MASK

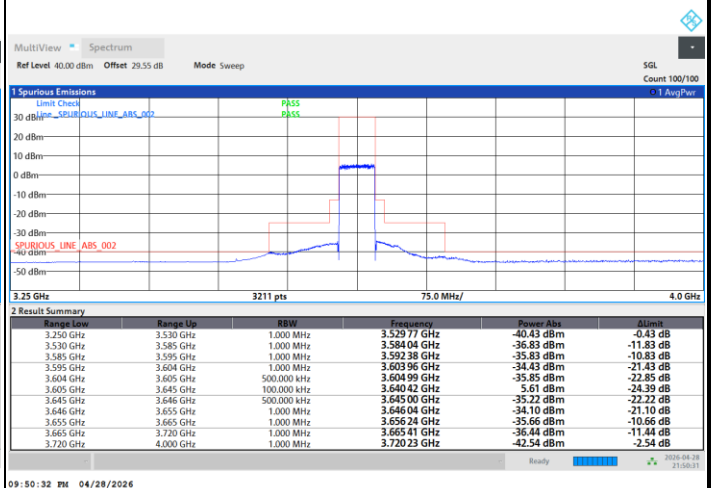
QPSK



64QAM



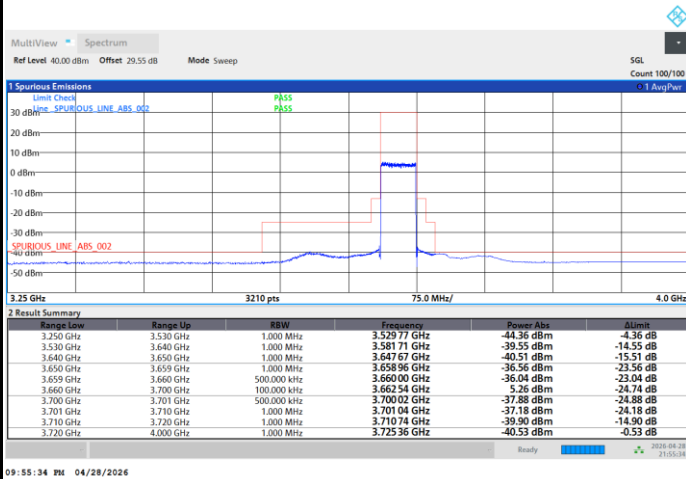
256QAM



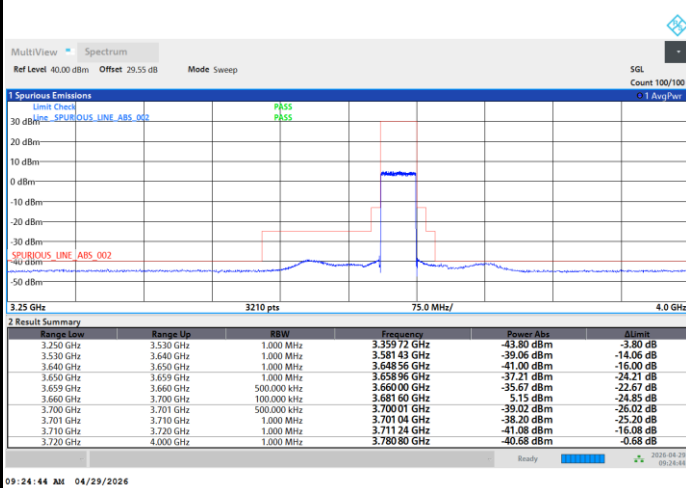


FR1 n48 / 40MHz / Highest Channel / MASK

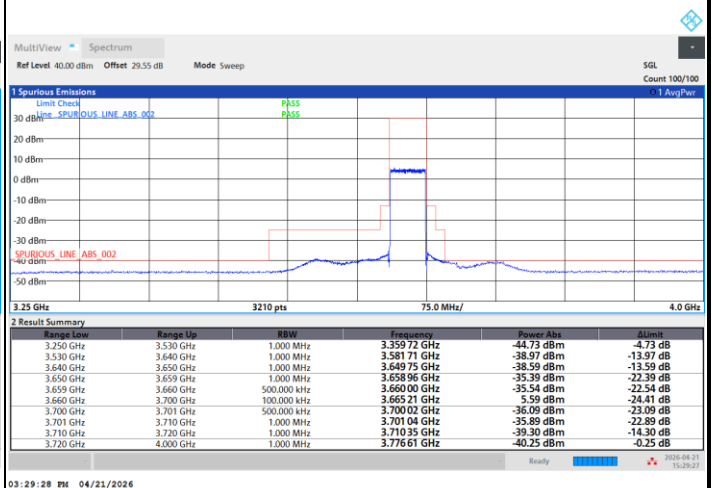
QPSK



64QAM



256QAM

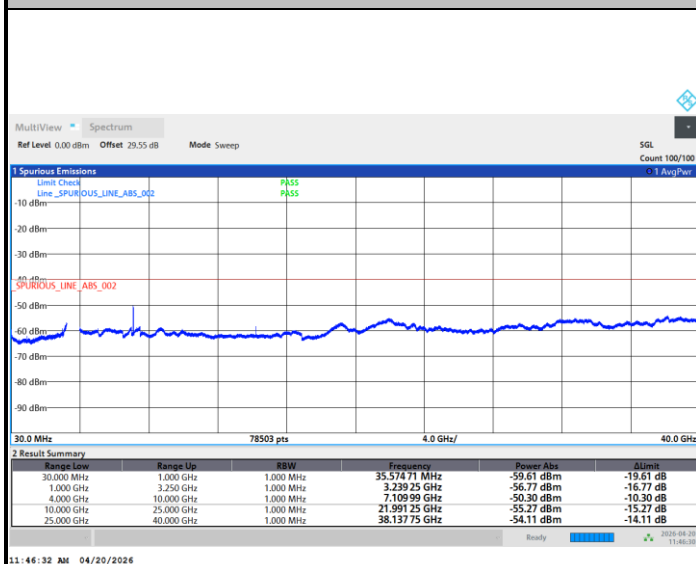




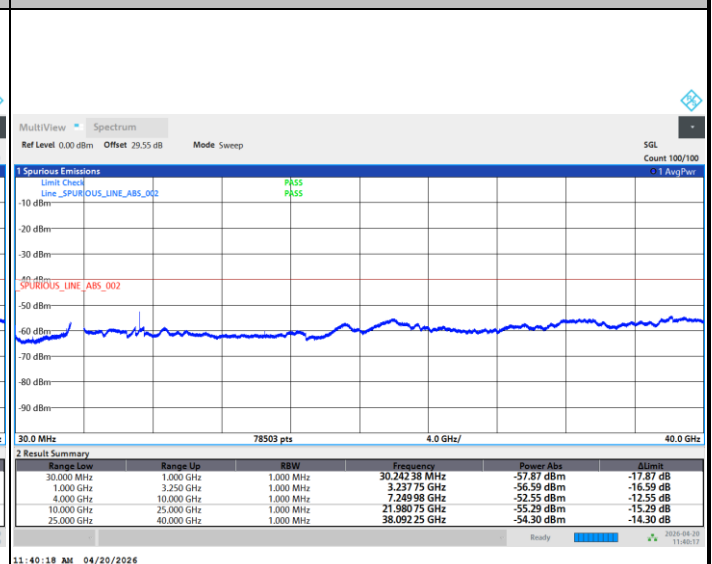
Conducted Spurious Emission

FR1 n48 / 10MHz / QPSK / CSE

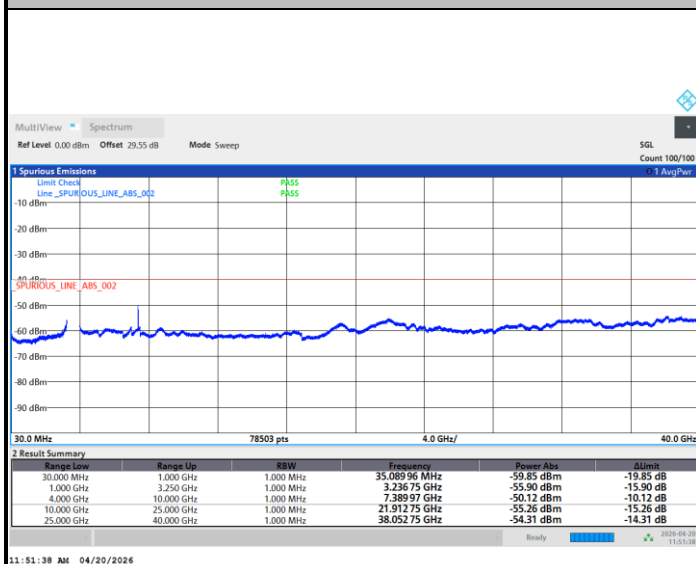
Lowest Channel



Middle Channel



Highest Channel

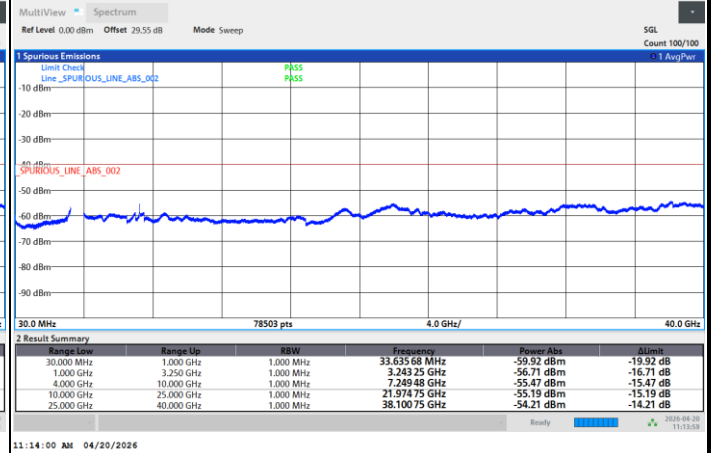
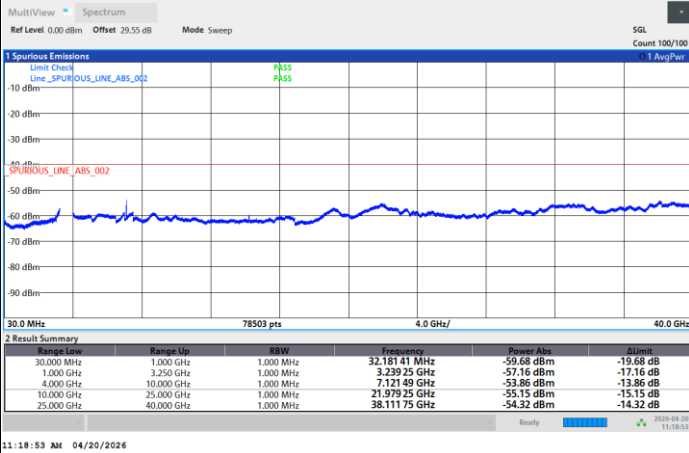




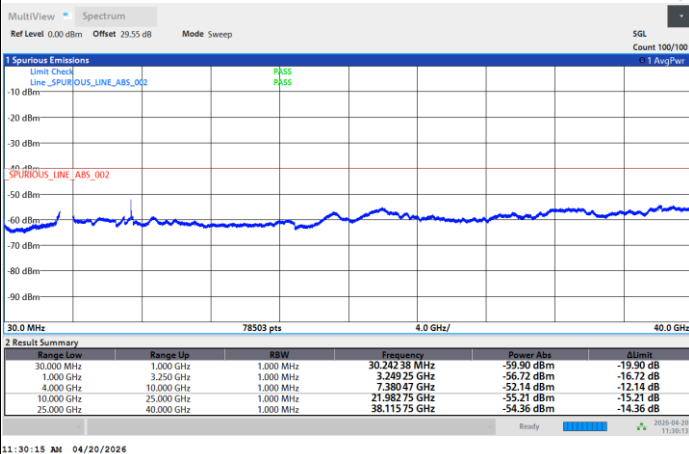
FR1 n48 / 20MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

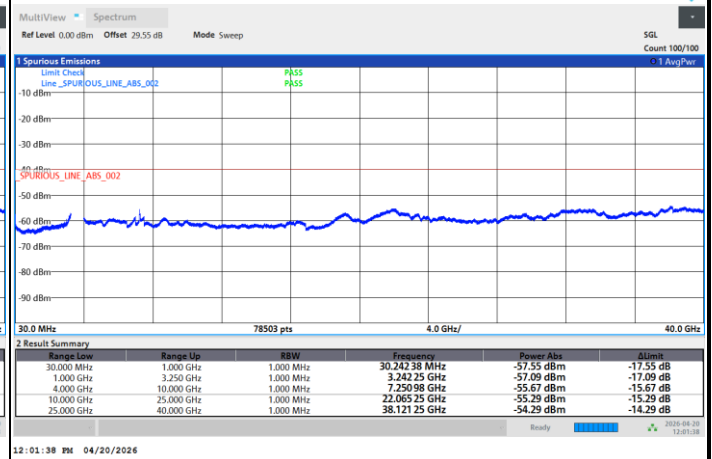
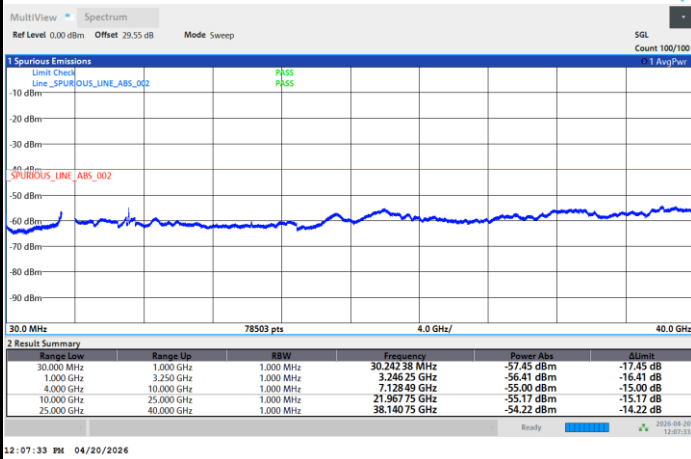




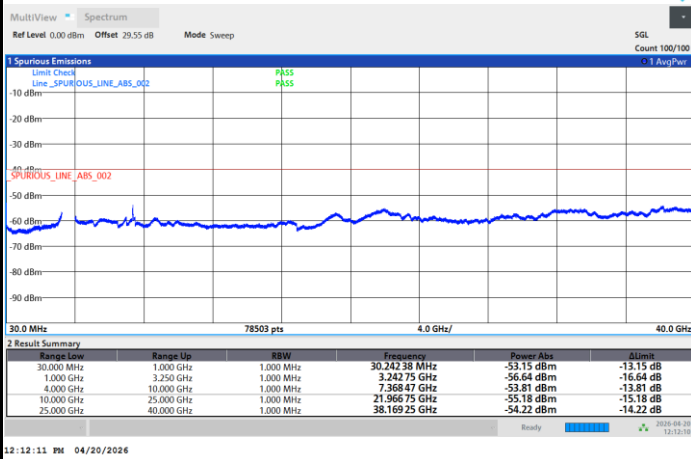
FR1 n48 / 30MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel

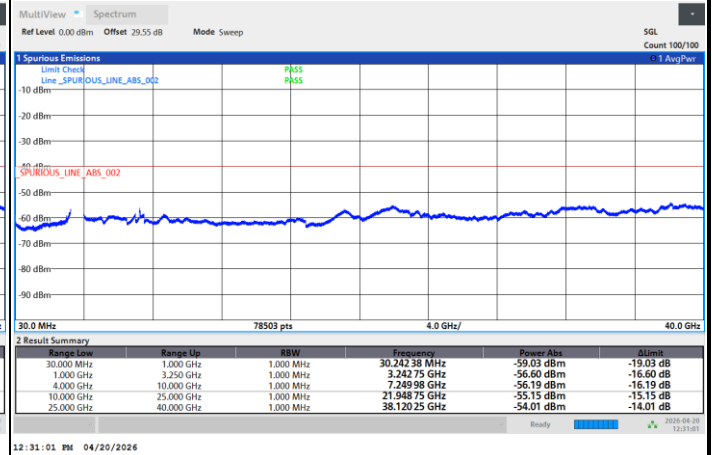
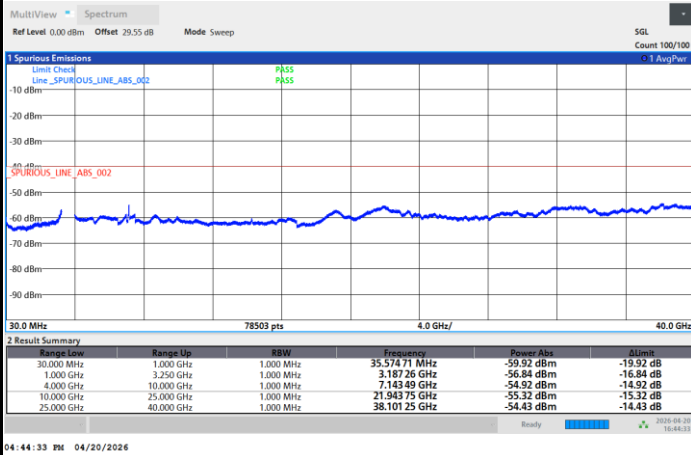




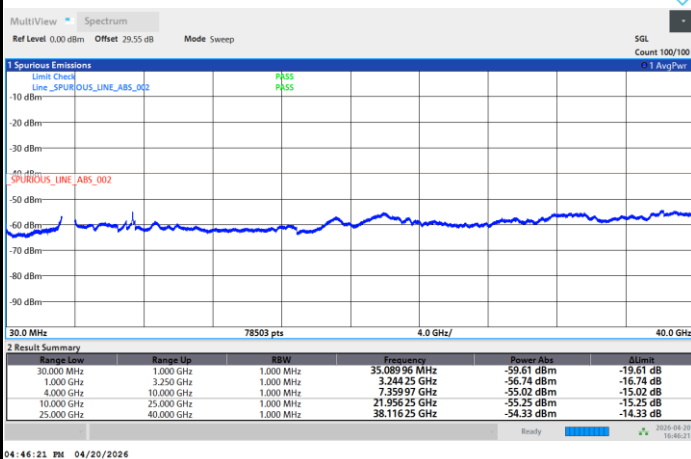
FR1 n48 / 40MHz / QPSK / CSE

Lowest Channel

Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Frequency offset (ppm)	Result
50	Normal Voltage	0.7172	PASS
40	Normal Voltage	1.1035	
30	Normal Voltage	1.2138	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.4966	
0	Normal Voltage	0.9931	
-10	Normal Voltage	1.5448	
-20	Normal Voltage	1.2138	
-30	Normal Voltage	0.7172	
20	Maximum Voltage	0.8276	
20	Normal Voltage	1.2138	
20	Minimum Voltage	1.3241	

Note:

1. Normal Voltage = 115 V. ; Minimum Voltage = 100 V. ; Maximum Voltage = 240 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

FR1 n48 Conducted Test Items

<MIMO ANT 2>

Maximum EIRP (dBm/10MHz)

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Lowest Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Lowest CH	23.73	-	21.25	-	19.47	-	17.35	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	23.82	23.76	21.19	21.26	19.49	19.50	17.35	17.28

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Lowest Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Lowest CH	42.22	-	39.74	-	37.96	-	35.84	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	42.31	42.25	39.68	39.75	37.98	37.99	35.84	35.77
Limit	47dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 12.47 dBi MIMO antenna gain.



Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Middle Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Middle CH	23.79	-	21.46	-	19.55	-	17.45	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	23.88	23.84	21.45	21.47	19.64	19.68	17.42	17.36

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Middle Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Middle CH	42.28	-	39.95	-	38.04	-	35.94	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	42.37	42.33	39.94	39.96	38.13	38.17	35.91	35.85
Limit	47dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 12.47 dBi MIMO antenna gain.



Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Highest Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Highest CH	23.09	-	21.11	-	19.46	-	17.18	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	23.43	22.87	21.08	21.22	18.39	19.44	17.18	17.28

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Highest Channel							
BW	10MHz		20MHz		30MHz		40MHz	
Mod.	QPSK	-	QPSK	-	QPSK	-	QPSK	-
Highest CH	41.58	-	39.60	-	37.95	-	35.67	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	41.92	41.36	39.57	39.71	36.88	37.93	35.67	35.77
Limit	47dBm/10MHz							
Result	PASS							

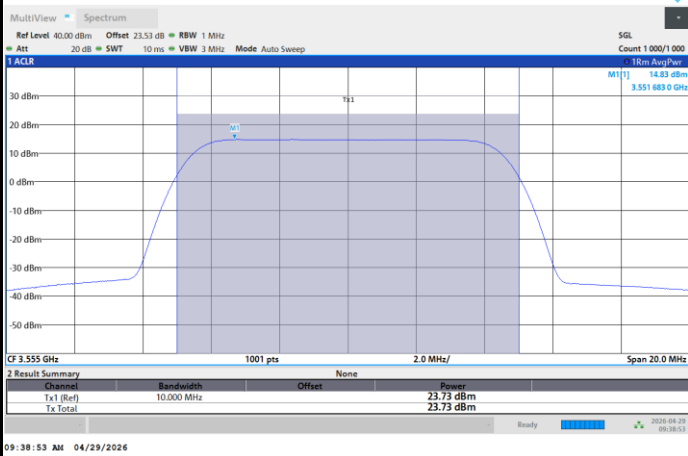
Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 12.47 dBi MIMO antenna gain.

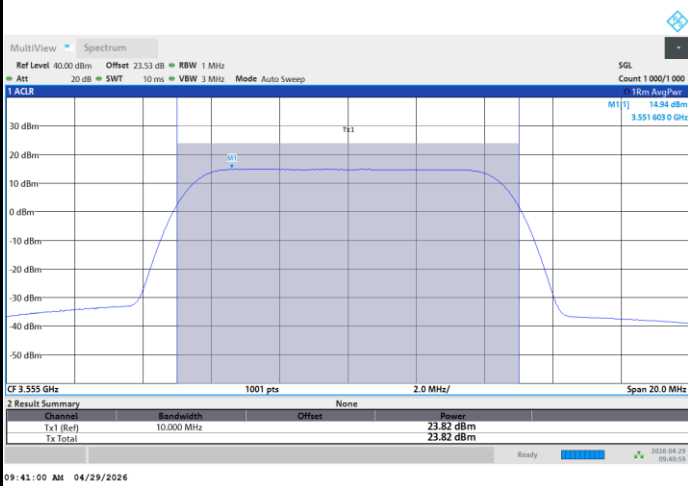


FR1 n48 / 10MHz / Lowest Channel / Conducted (dBm/10MHz)

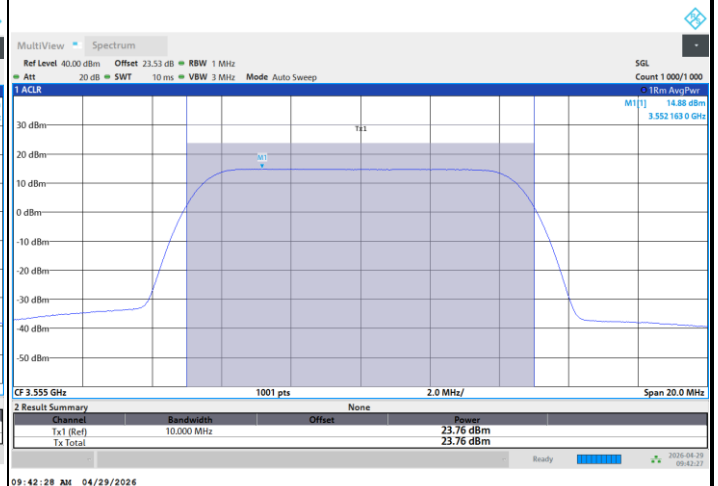
QPSK



64QAM



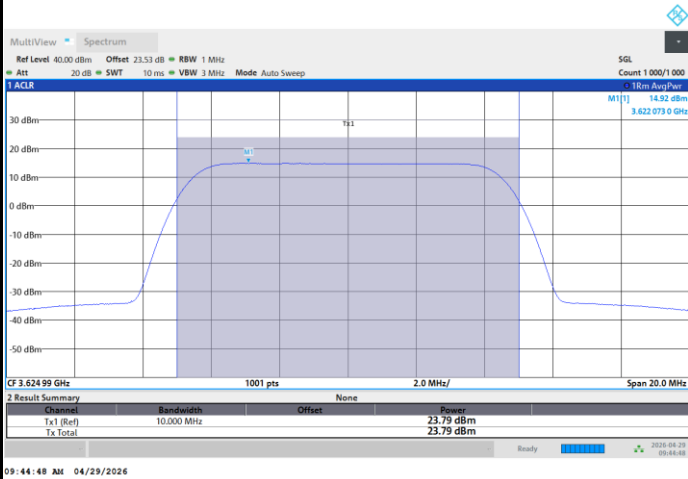
256QAM



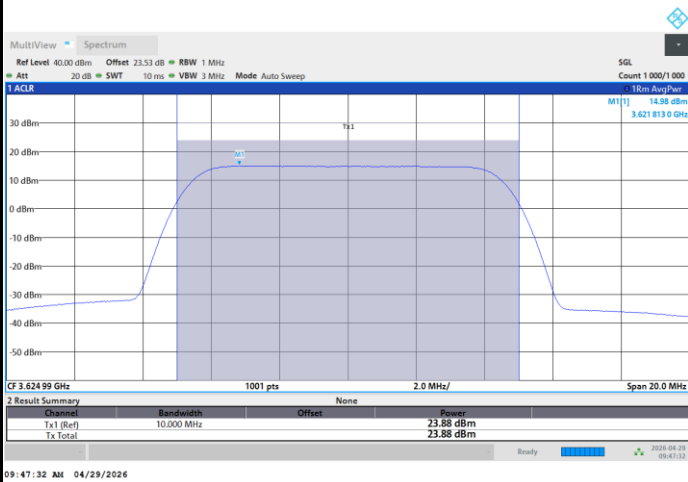


FR1 n48 / 10MHz / Middle Channel / Conducted (dBm/10MHz)

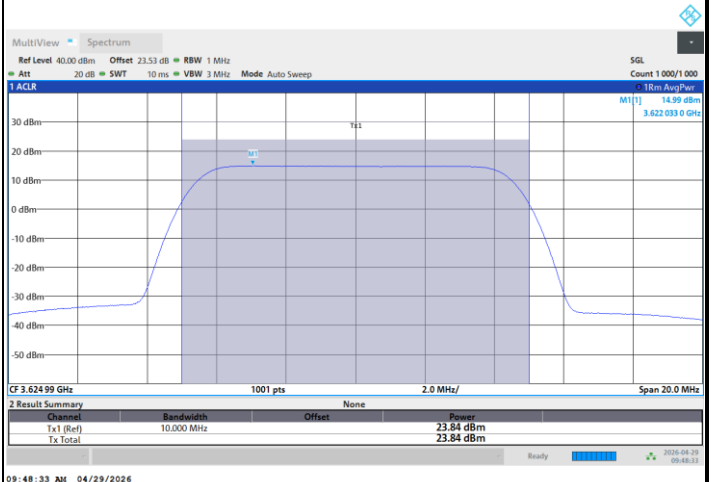
QPSK



64QAM



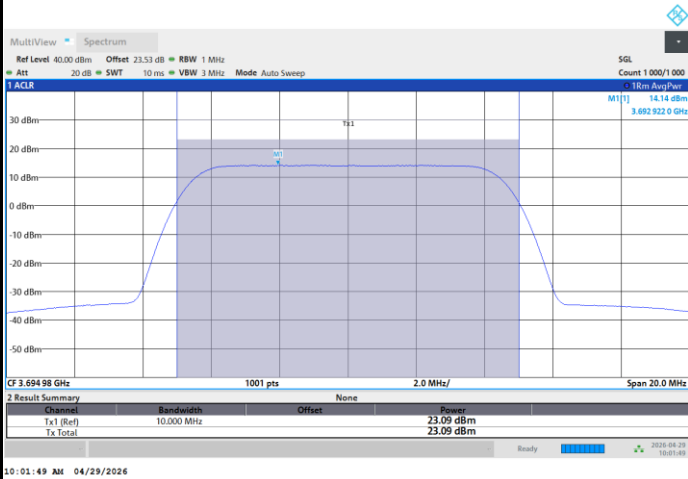
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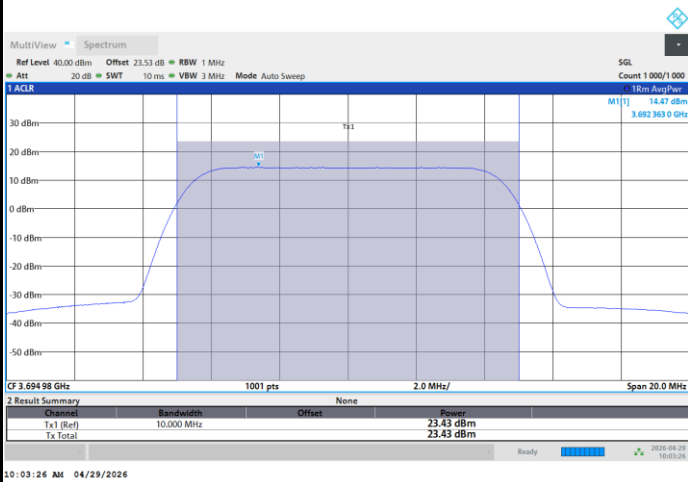


FR1 n48 / 10MHz / Highest Channel / Conducted (dBm/10MHz)

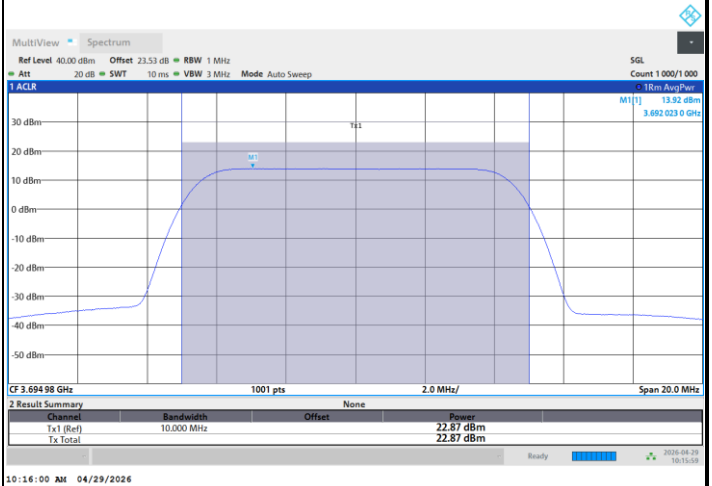
QPSK



64QAM



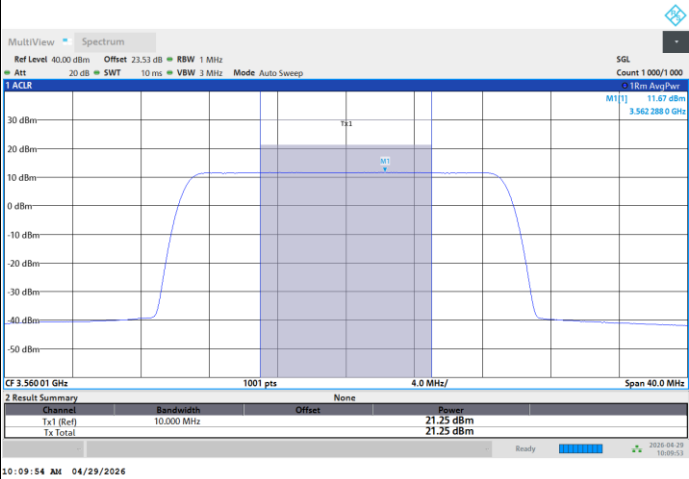
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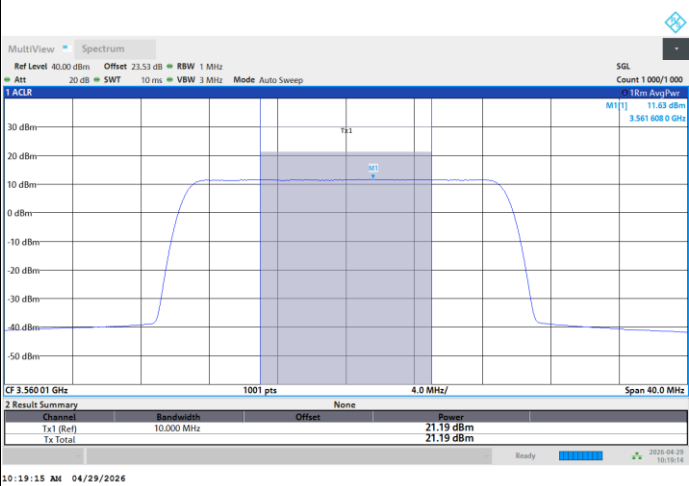


FR1 n48 / 20MHz / Lowest Channel / Conducted (dBm/10MHz)

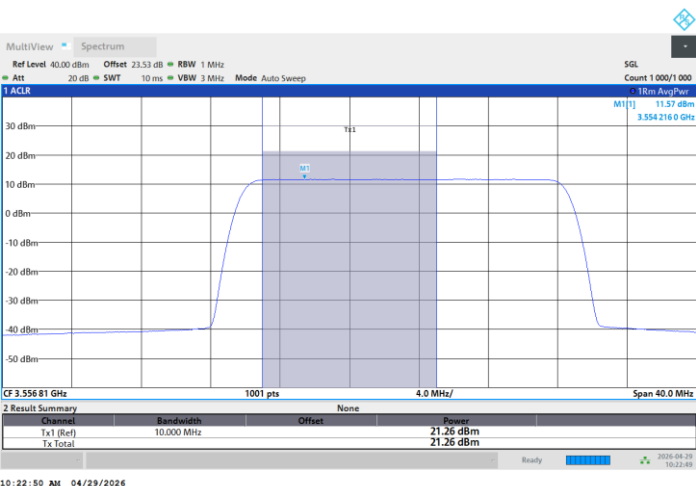
QPSK



64QAM



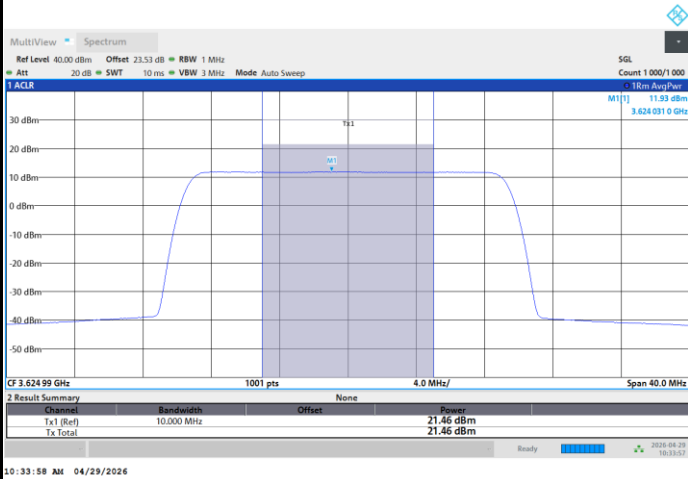
256QAM



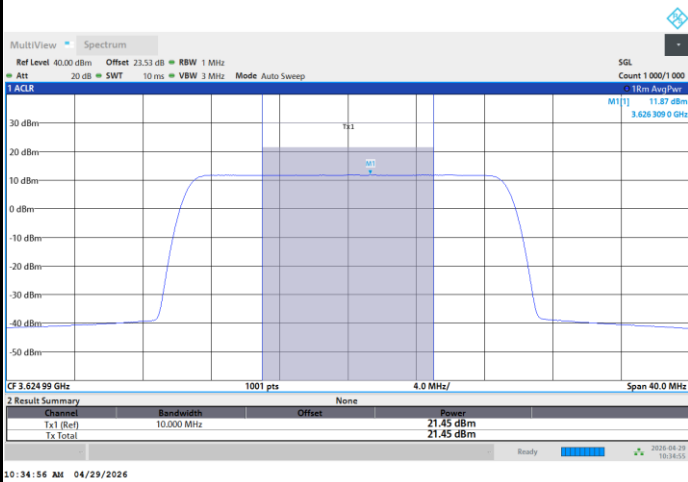


FR1 n48 / 20MHz / Middle Channel / Conducted (dBm/10MHz)

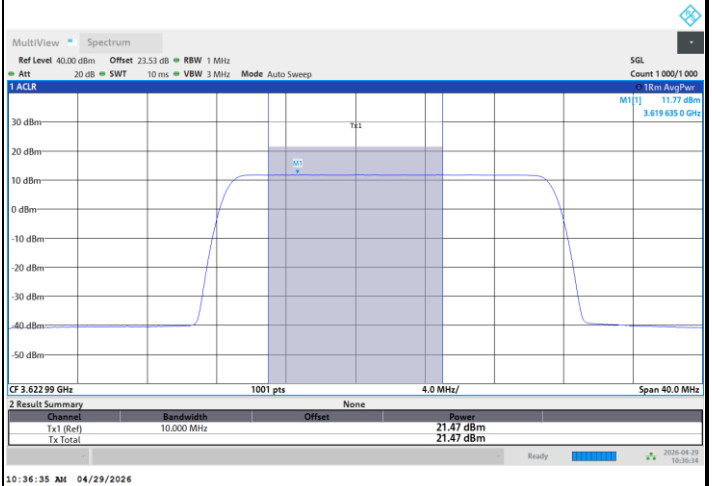
QPSK



64QAM



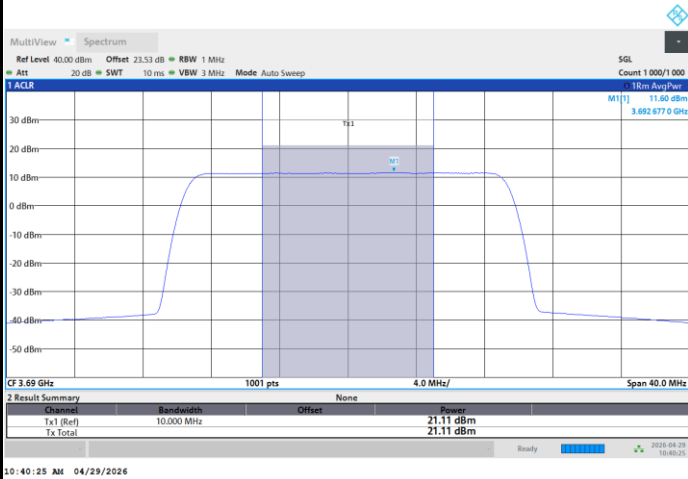
256QAM



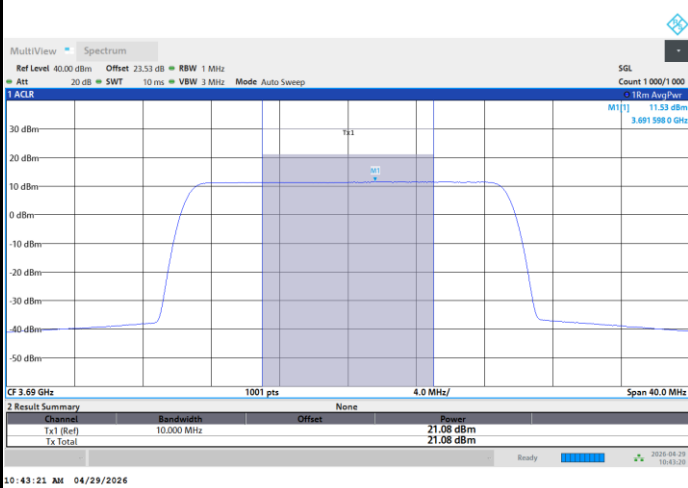


FR1 n48 / 20MHz / Highest Channel / Conducted (dBm/10MHz)

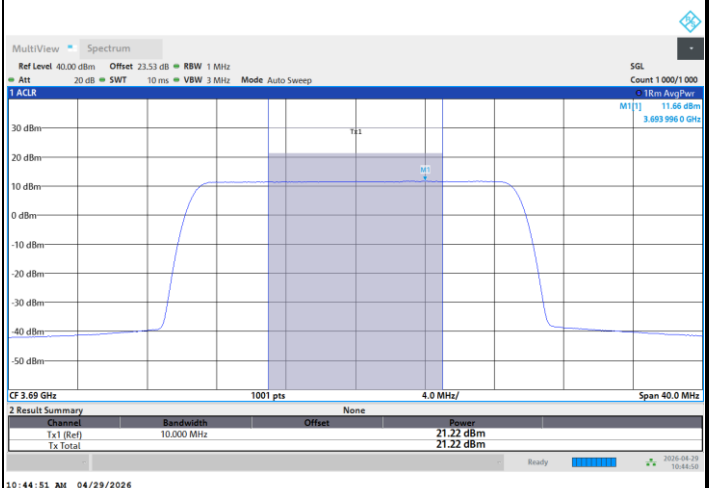
QPSK



64QAM



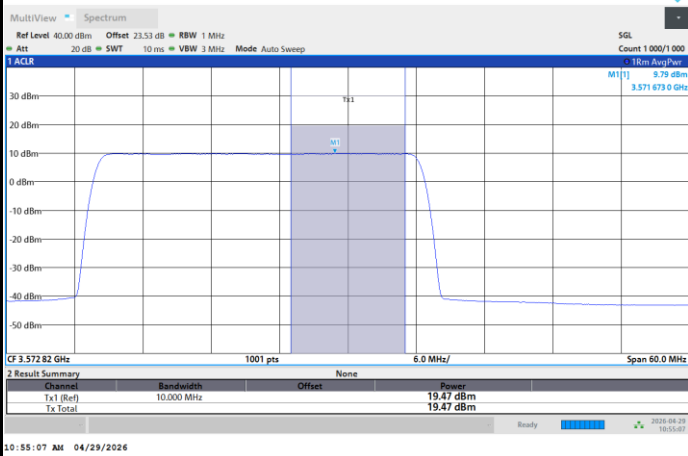
256QAM



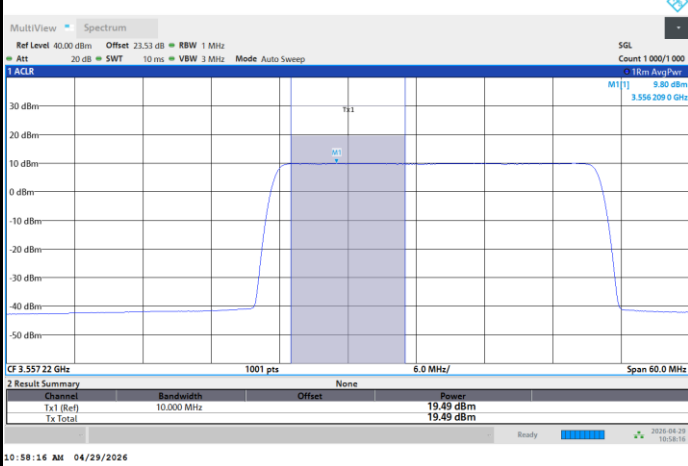


FR1 n48 / 30MHz / Lowest Channel / Conducted (dBm/10MHz)

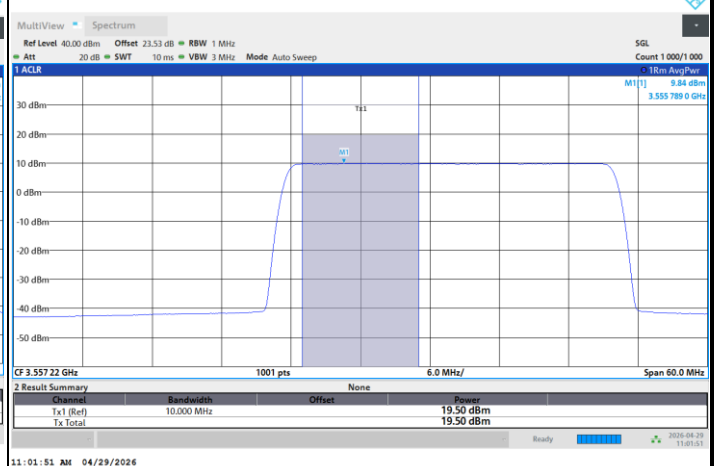
QPSK



64QAM



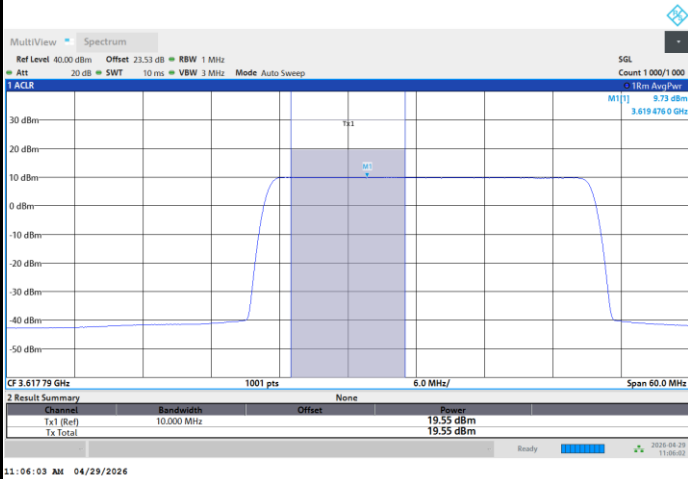
256QAM



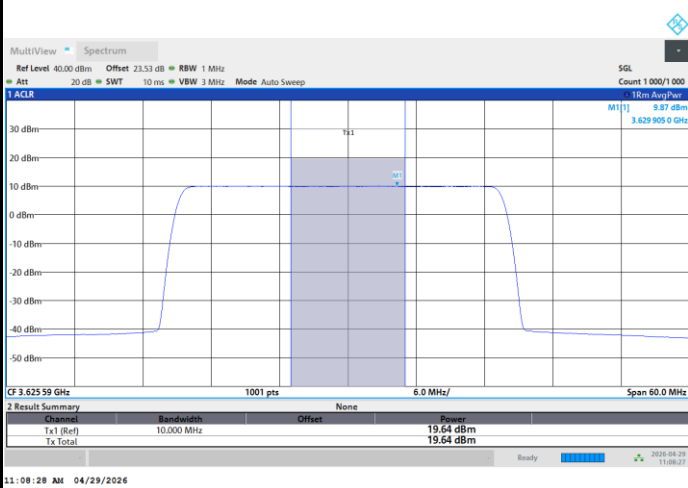


FR1 n48 / 30MHz / Middle Channel / Conducted (dBm/10MHz)

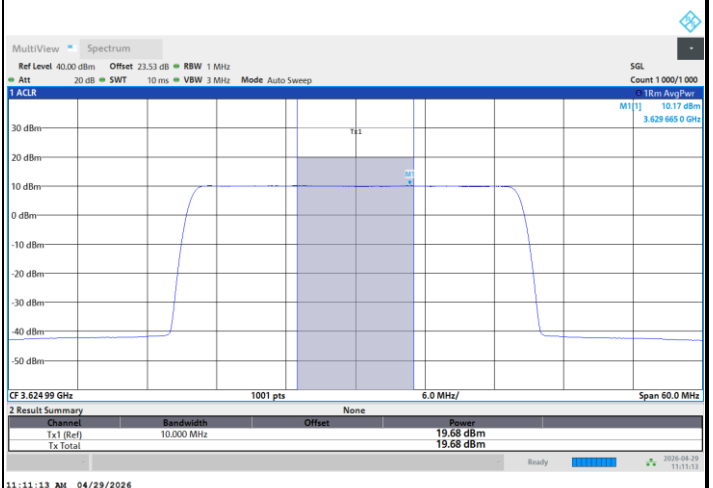
QPSK



64QAM



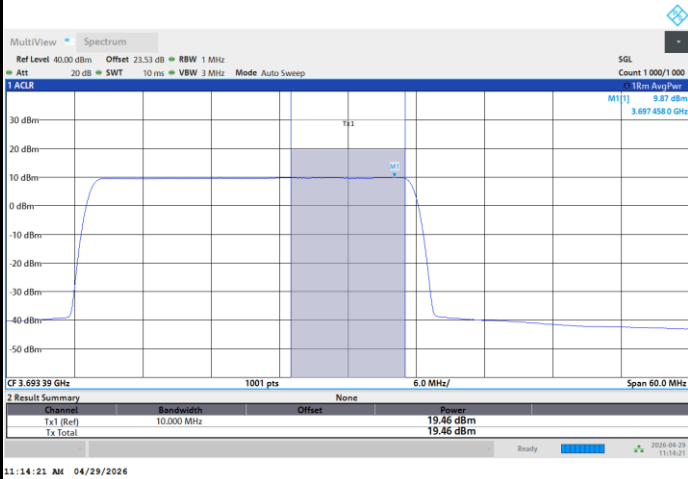
256QAM



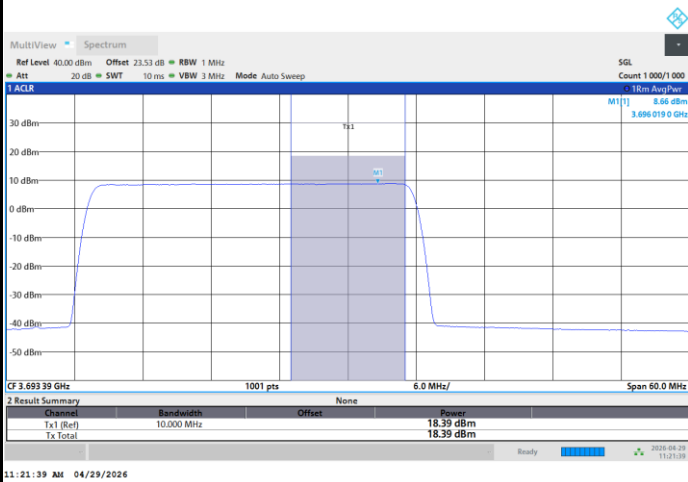


FR1 n48 / 30MHz / Highest Channel / Conducted (dBm/10MHz)

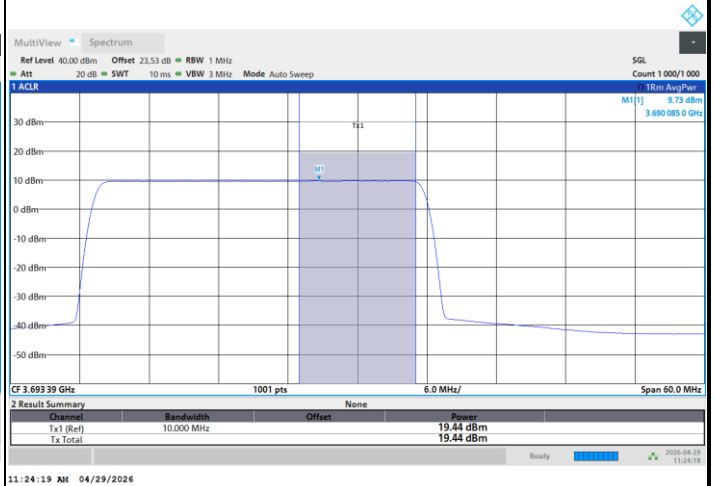
QPSK



64QAM



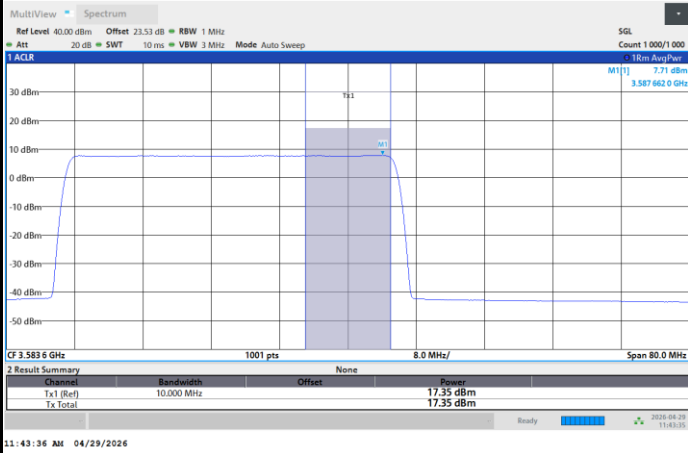
256QAM



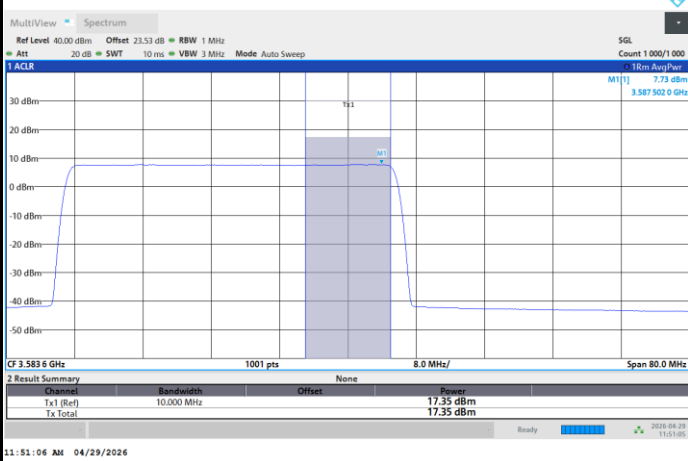


FR1 n48 / 40MHz / Lowest Channel / Conducted (dBm/10MHz)

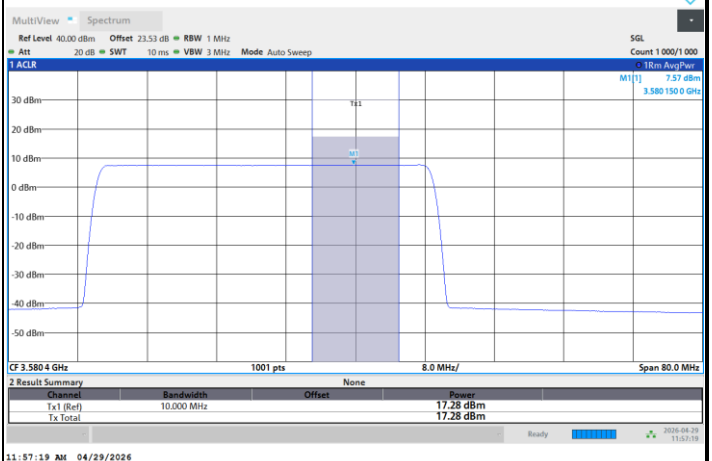
QPSK



64QAM



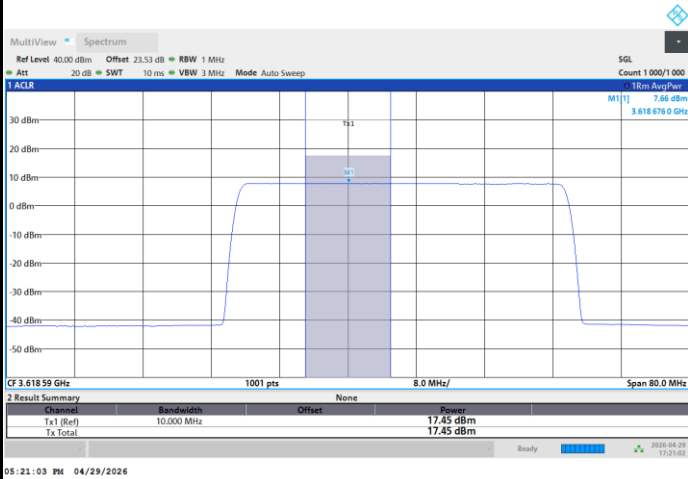
256QAM



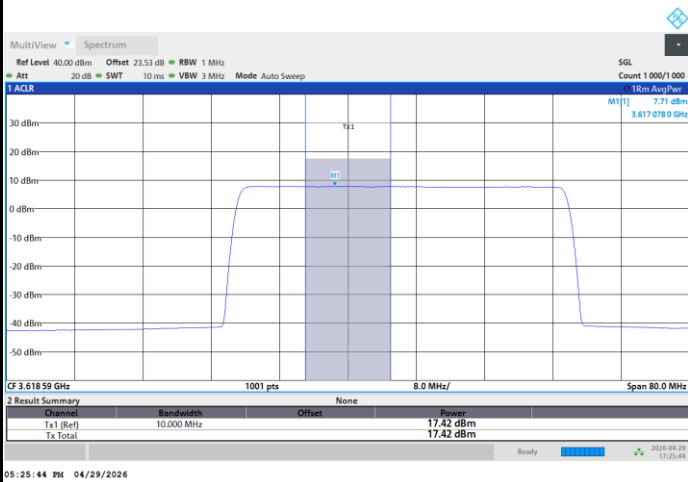


FR1 n48 / 40MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



64QAM



256QAM

