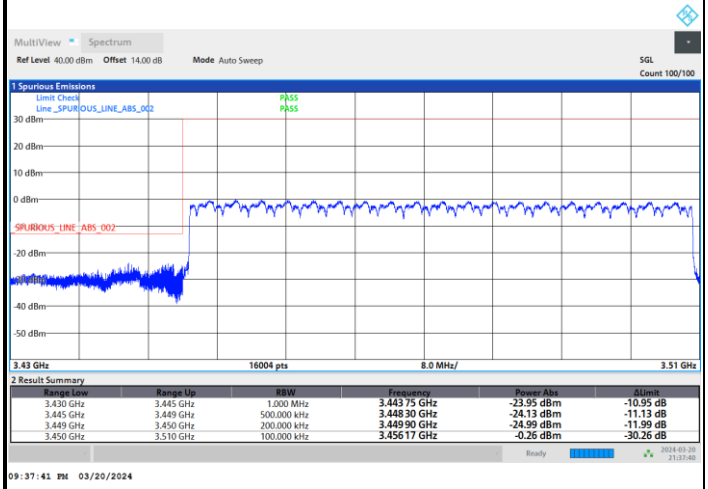
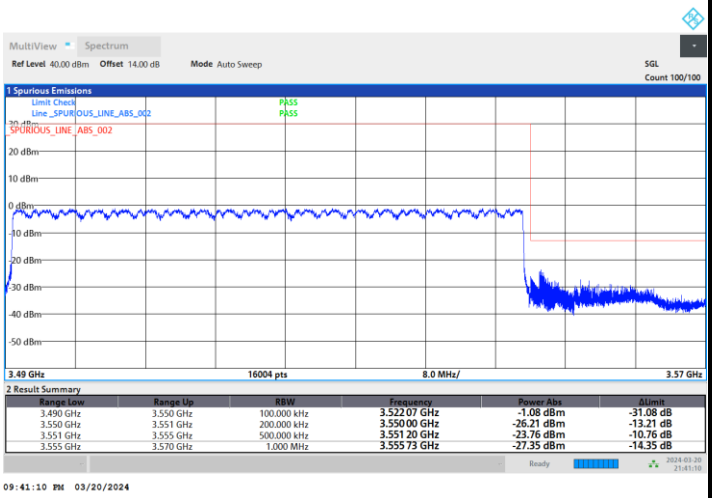
FR1 n77 / 60MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

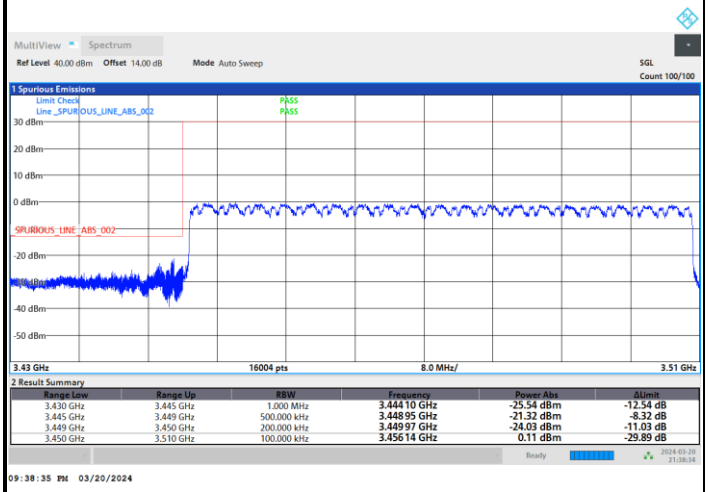


Highest Band Edge / Full RB

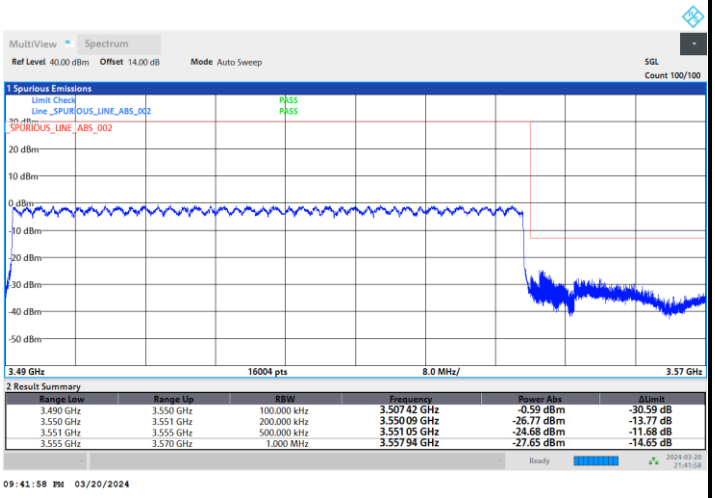


FR1 n77 / 60MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

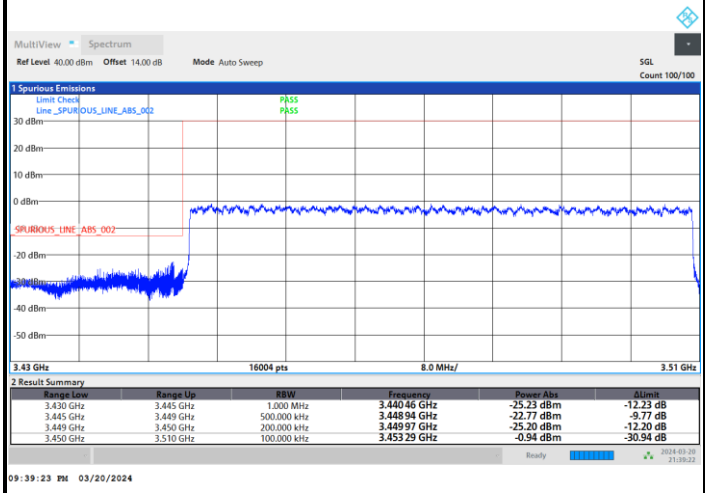


Highest Band Edge / Full RB

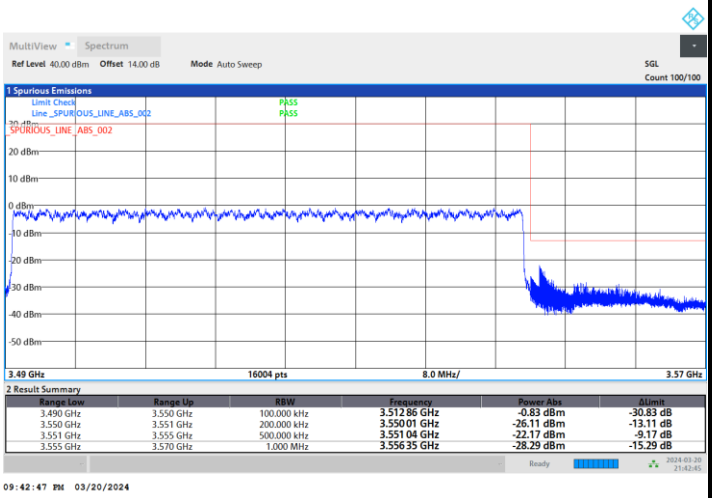


FR1 n77 / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

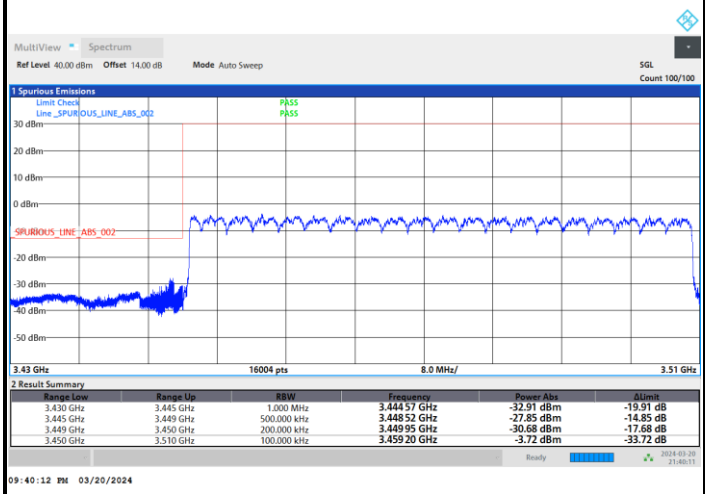


Highest Band Edge / Full RB

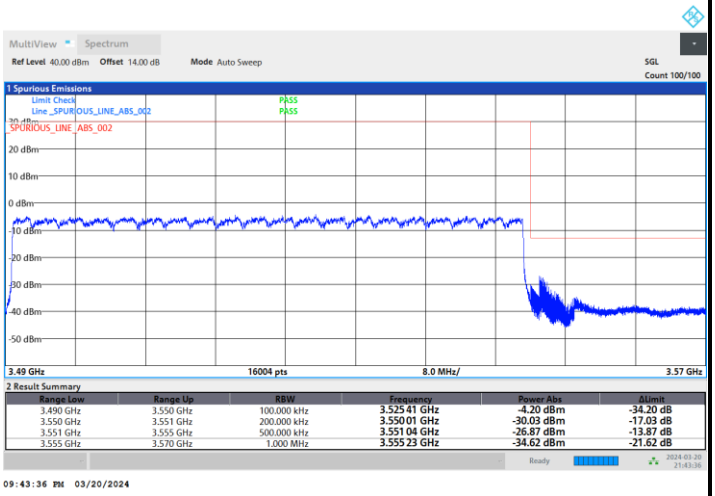


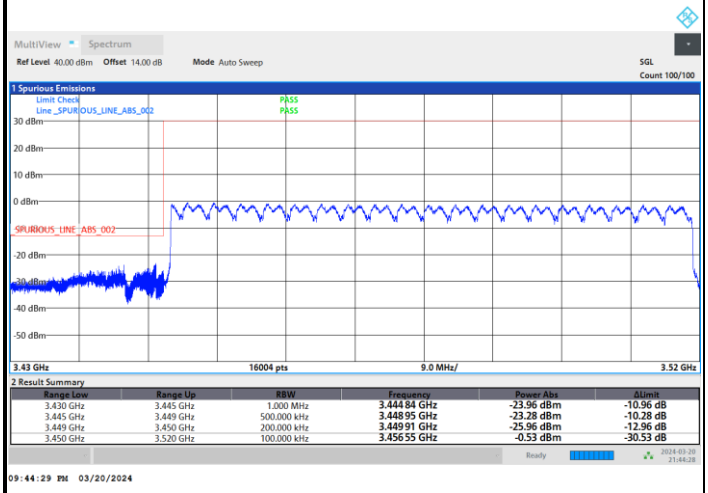
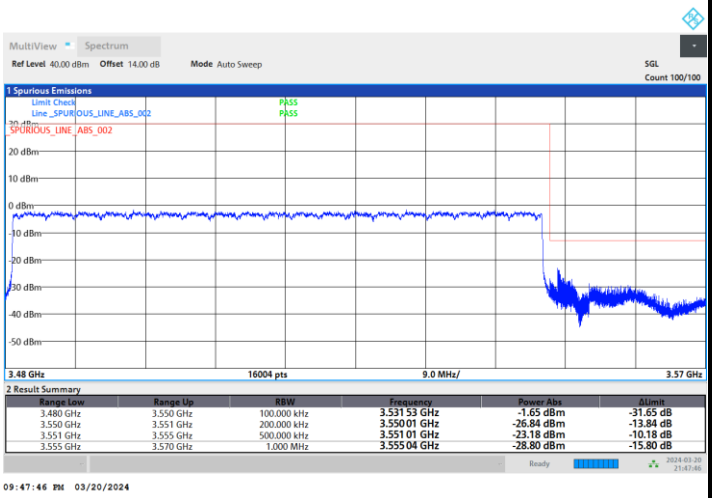
FR1 n77 / 60MHz / CP OFDM / 256QAM

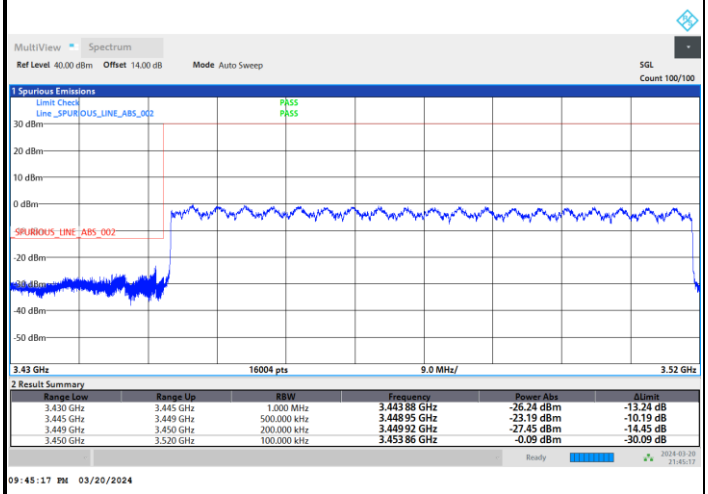
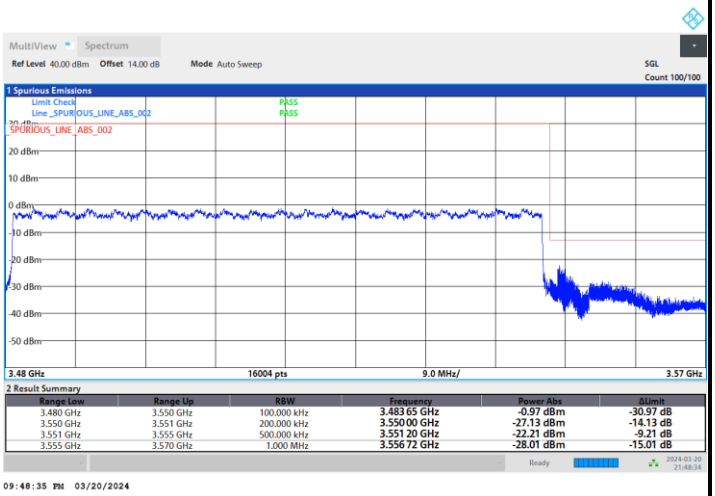
Lowest Band Edge / Full RB



Highest Band Edge / Full RB

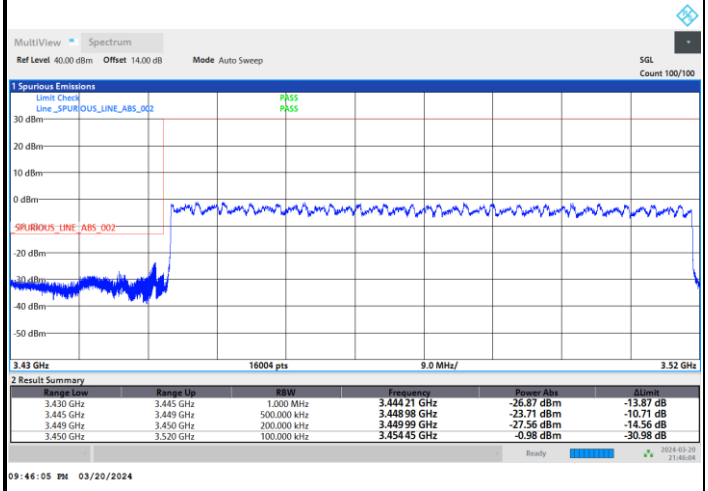


FR1 n77 / 70MHz / CP OFDM / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

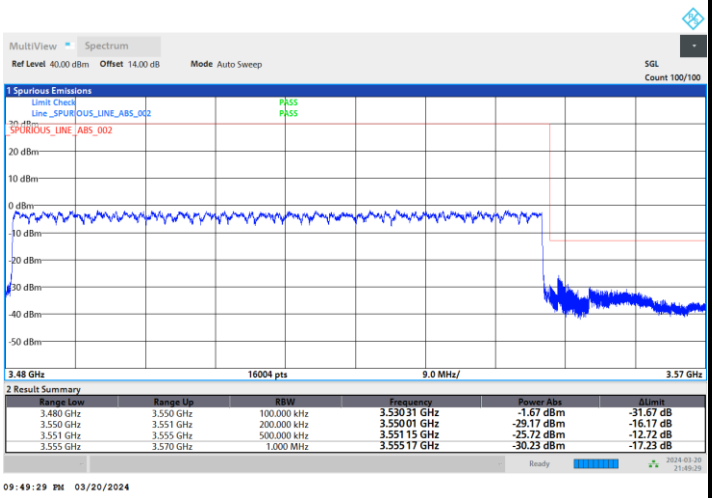
FR1 n77 / 70MHz / CP OFDM / 16QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n77 / 70MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

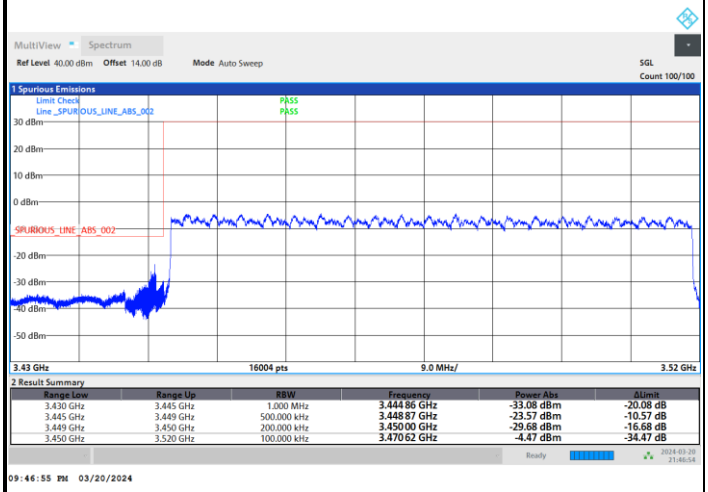


Highest Band Edge / Full RB

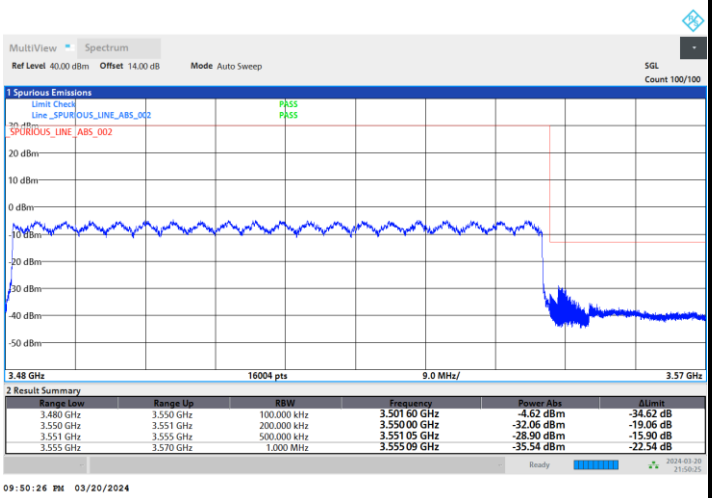


FR1 n77 / 70MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

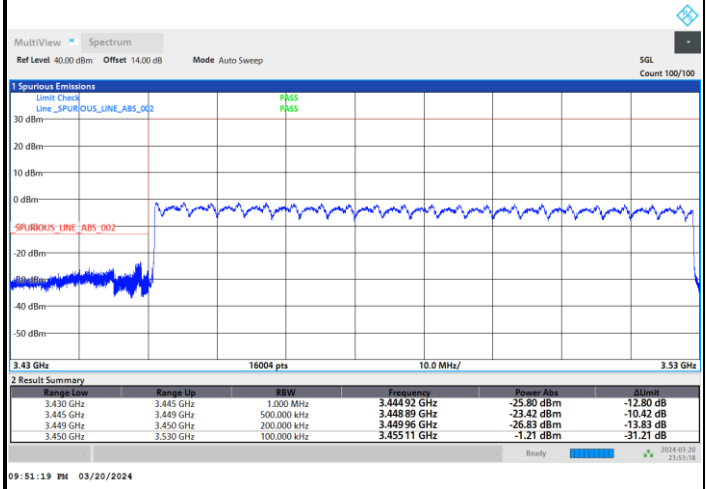


Highest Band Edge / Full RB

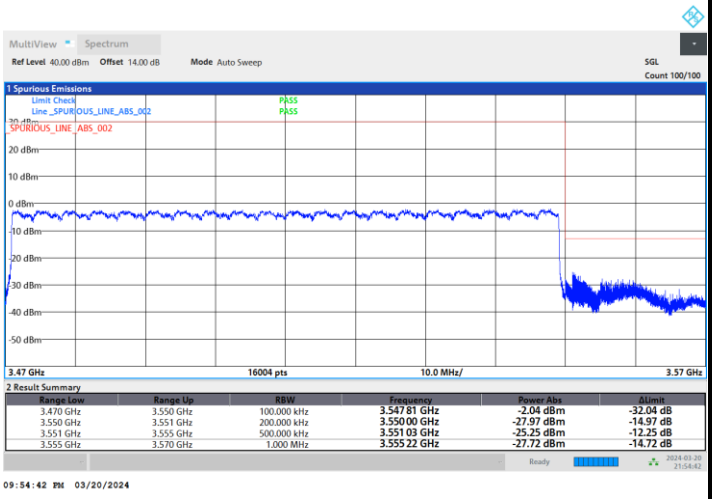


FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

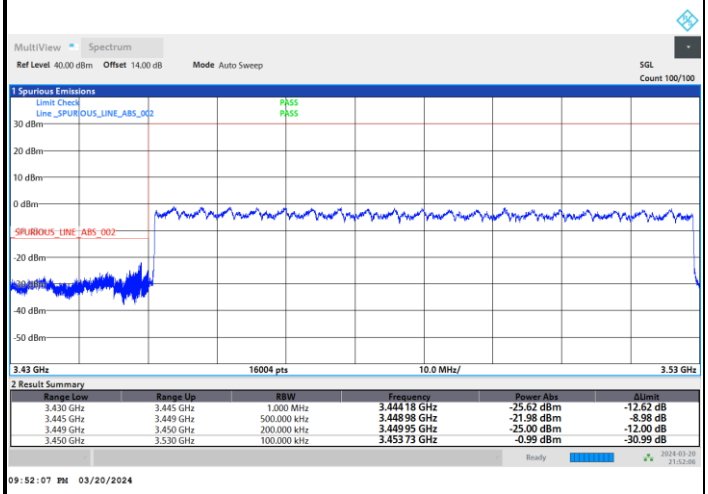


Highest Band Edge / Full RB

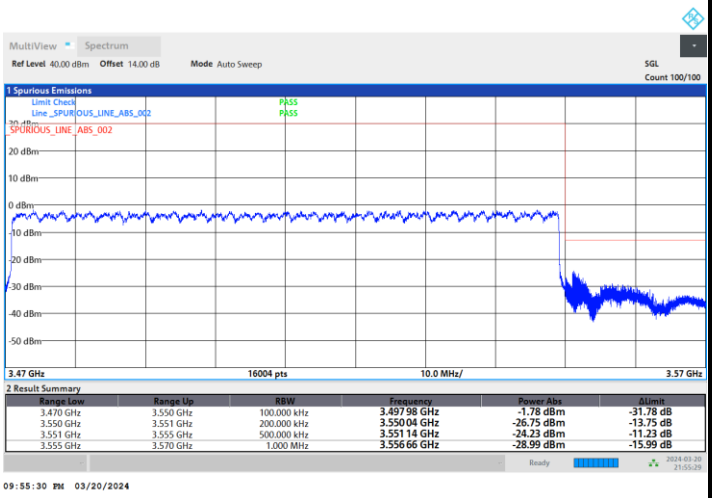


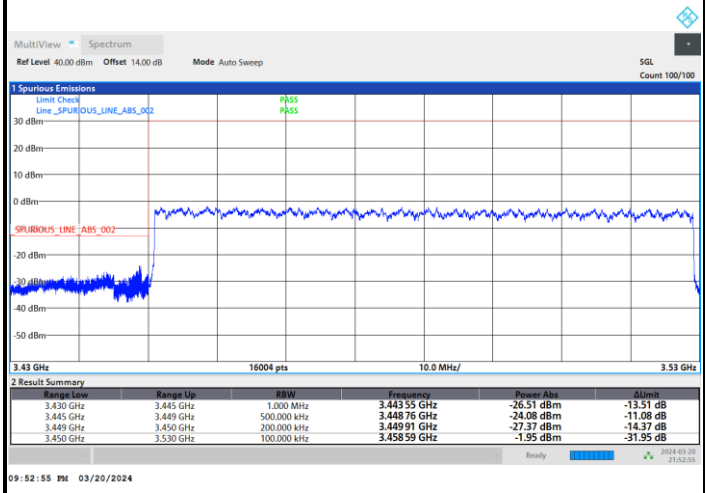
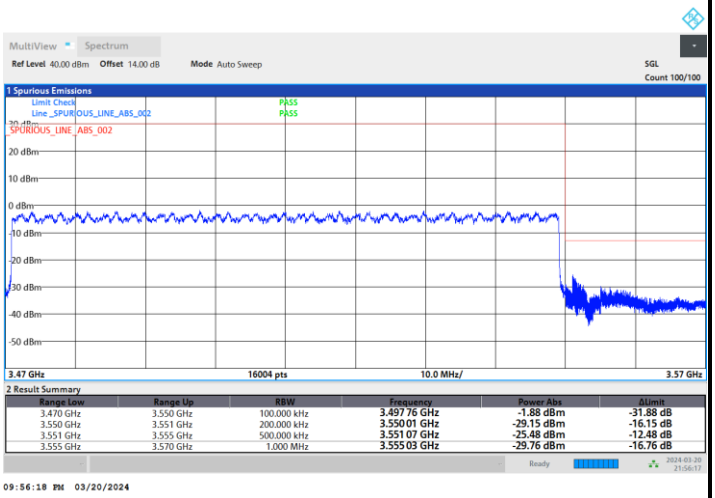
FR1 n77 / 80MHz / CP OFDM / 16QAM

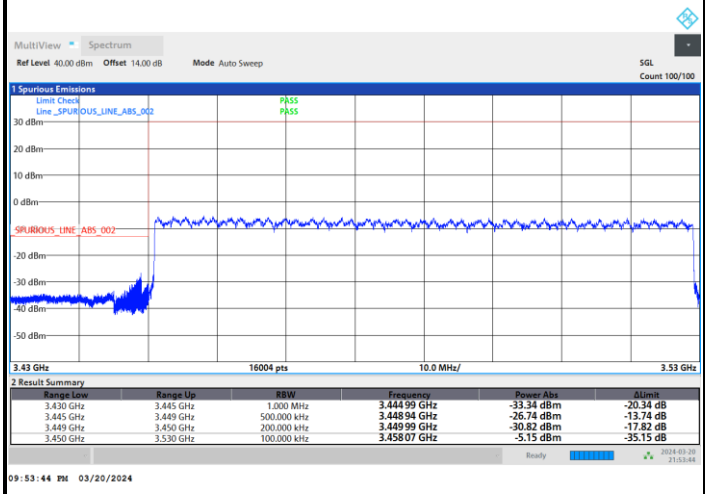
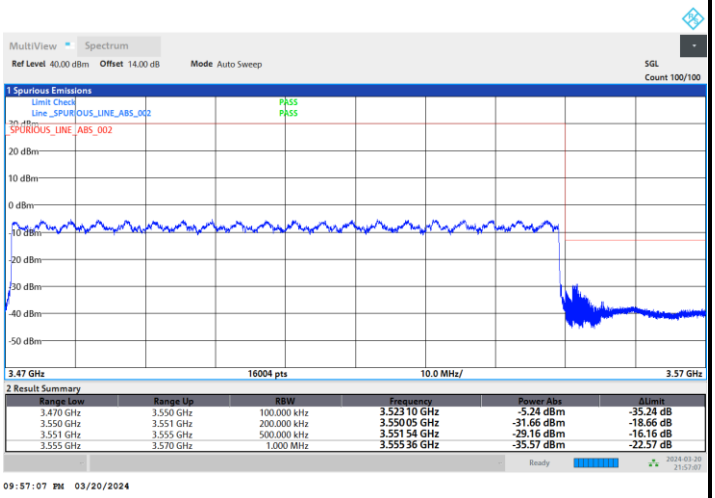
Lowest Band Edge / Full RB



Highest Band Edge / Full RB

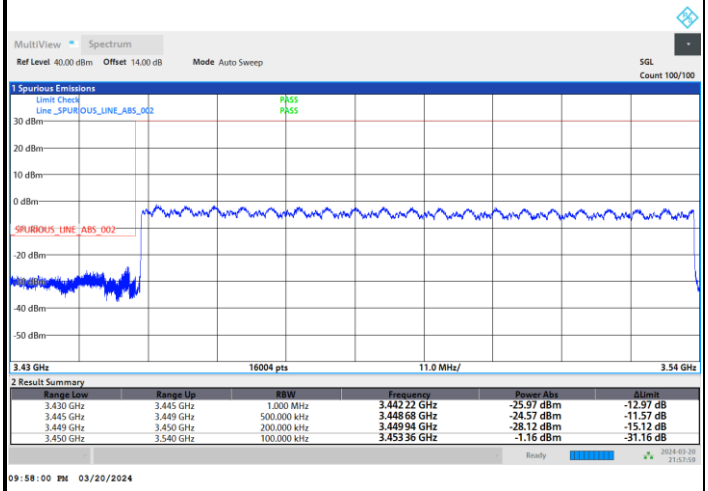


FR1 n77 / 80MHz / CP OFDM / 64QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

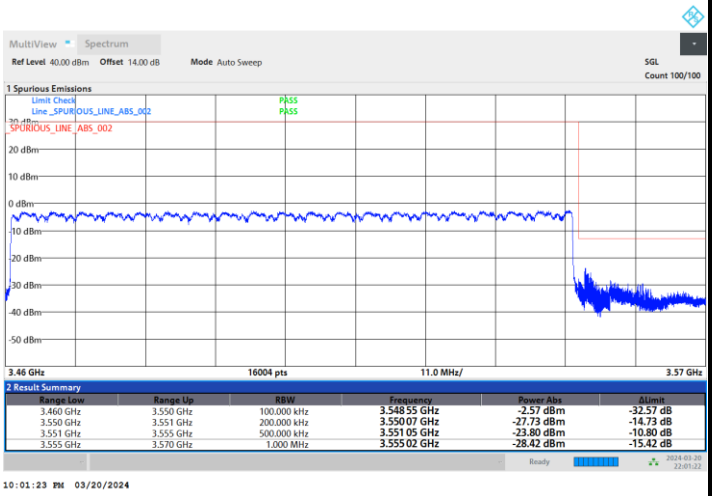
FR1 n77 / 80MHz / CP OFDM / 256QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

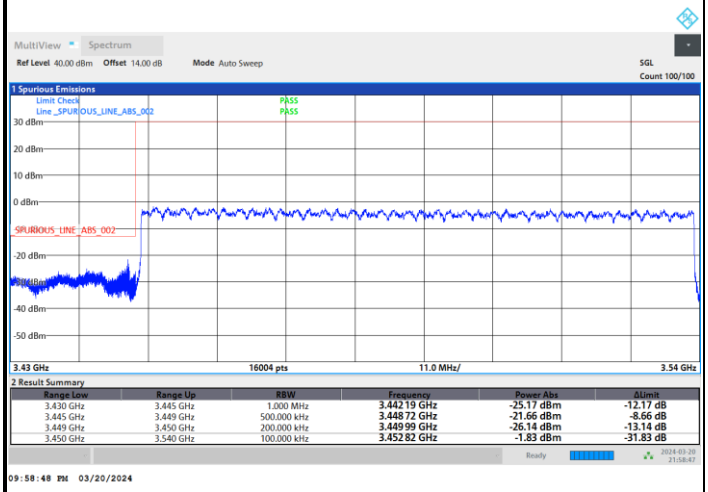


Highest Band Edge / Full RB

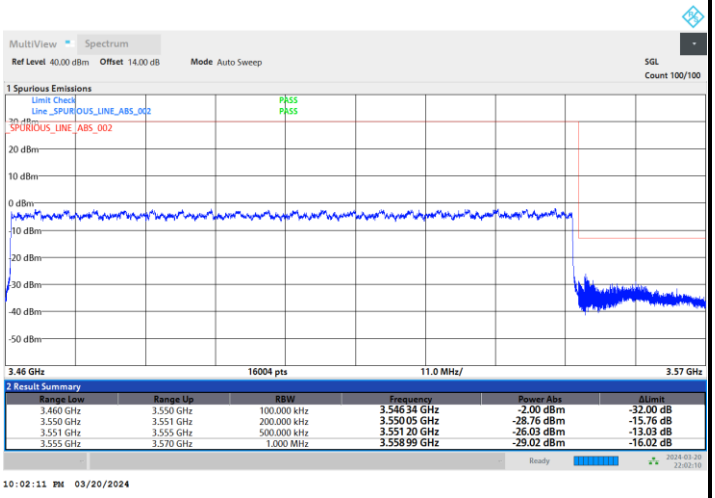


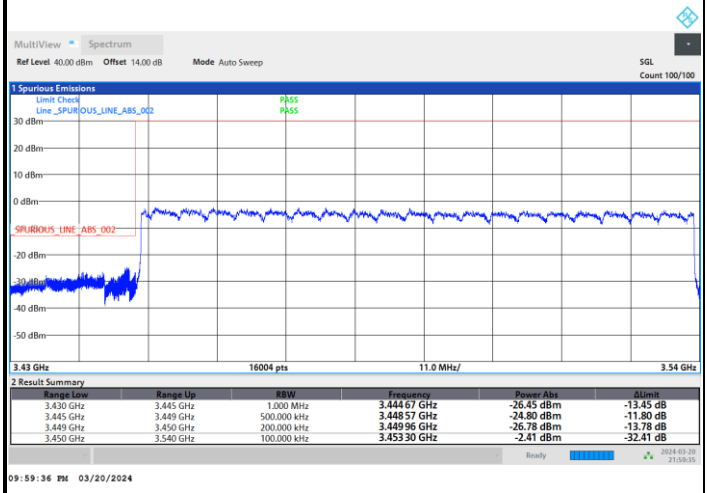
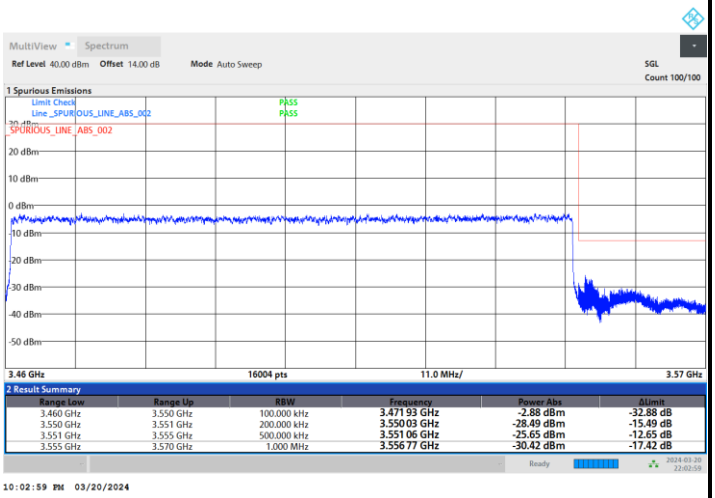
FR1 n77 / 90MHz / CP OFDM / 16QAM

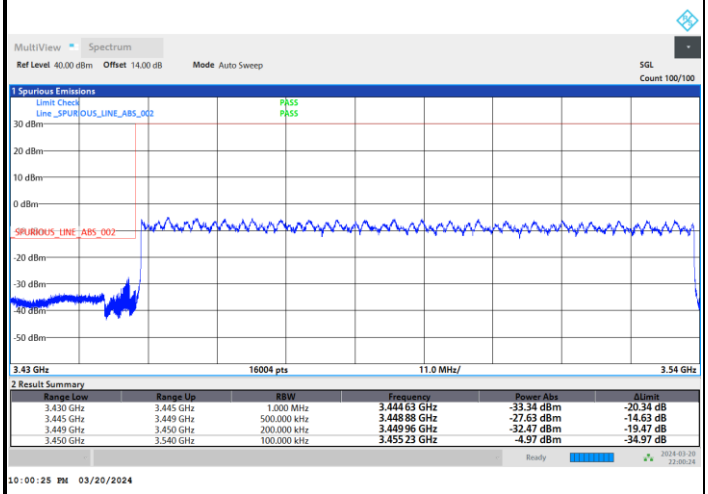
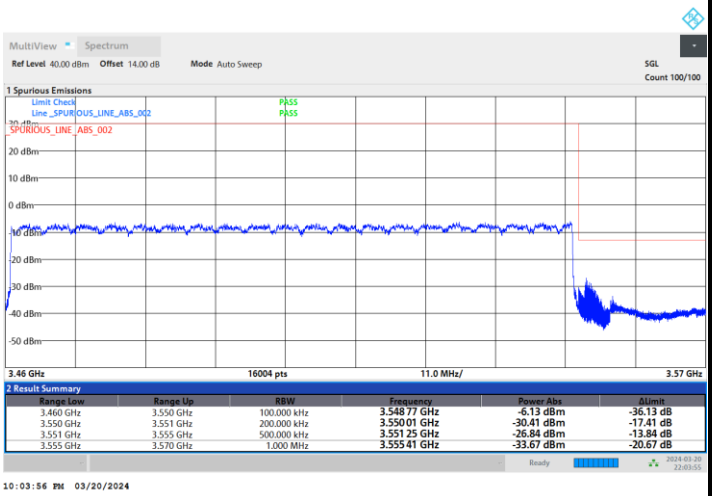
Lowest Band Edge / Full RB



Highest Band Edge / Full RB

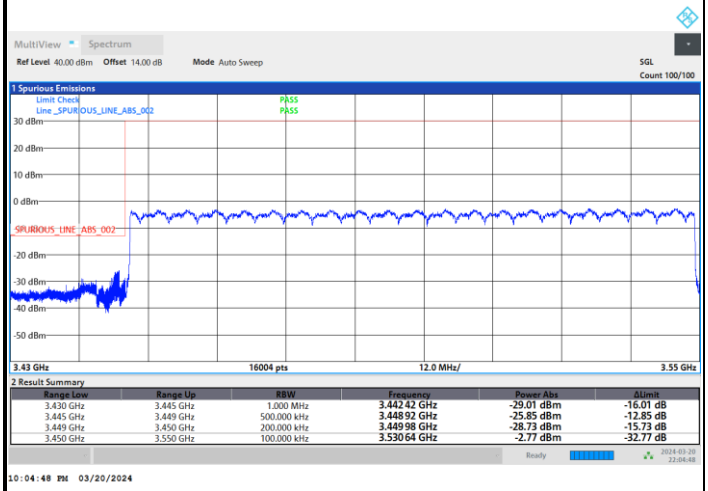


FR1 n77 / 90MHz / CP OFDM / 64QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

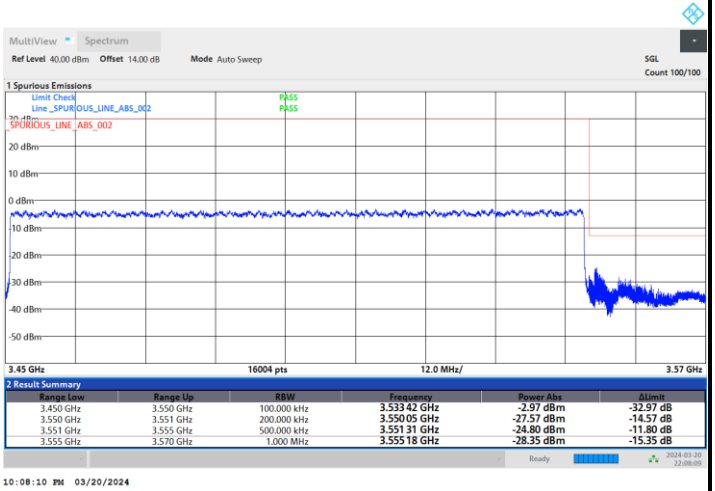
FR1 n77 / 90MHz / CP OFDM / 256QAM	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

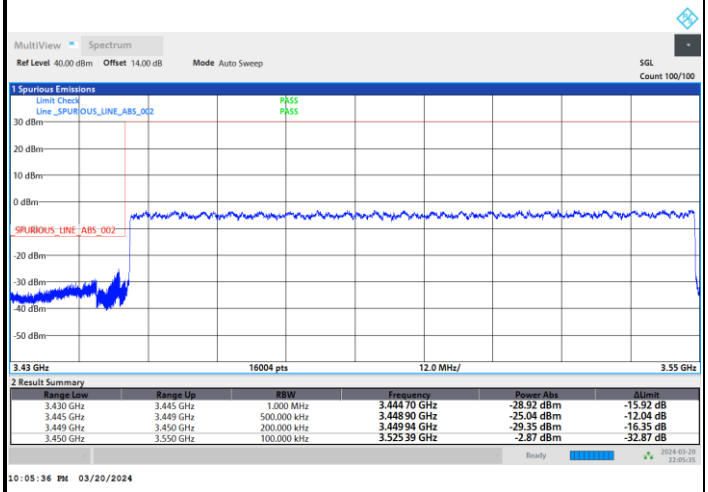


Highest Band Edge / Full RB

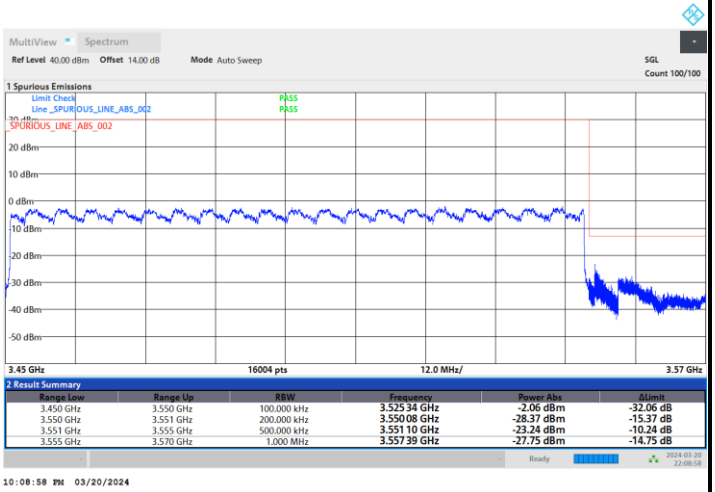


FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

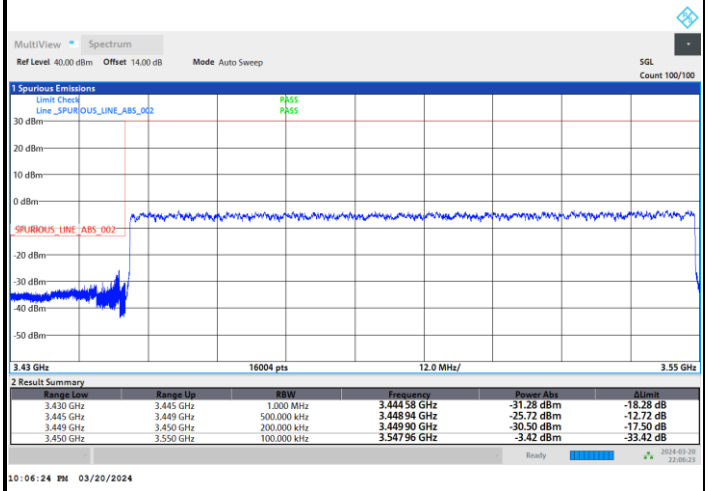


Highest Band Edge / Full RB

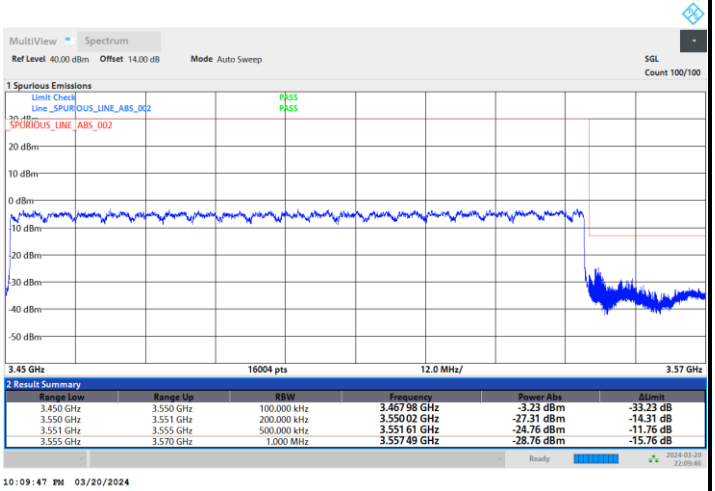


FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

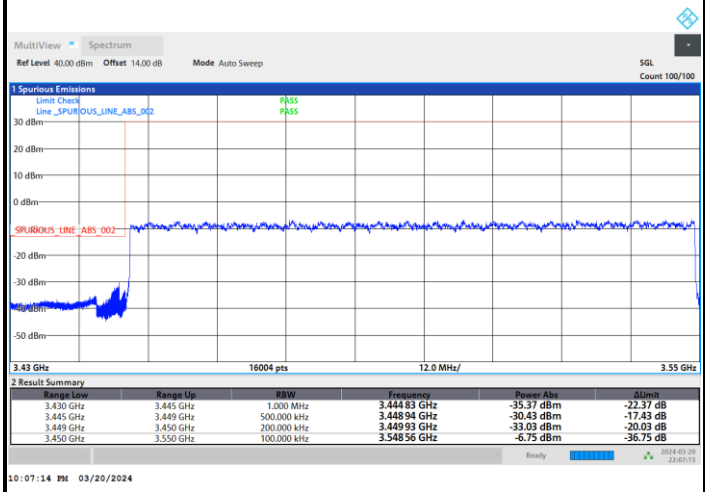


Highest Band Edge / Full RB

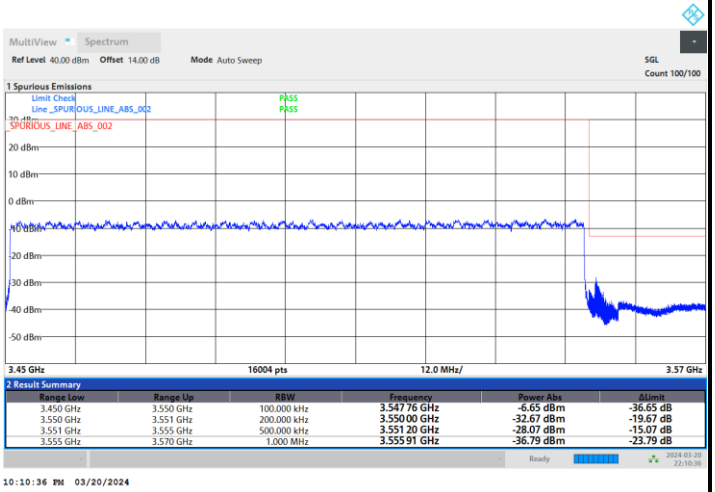


FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



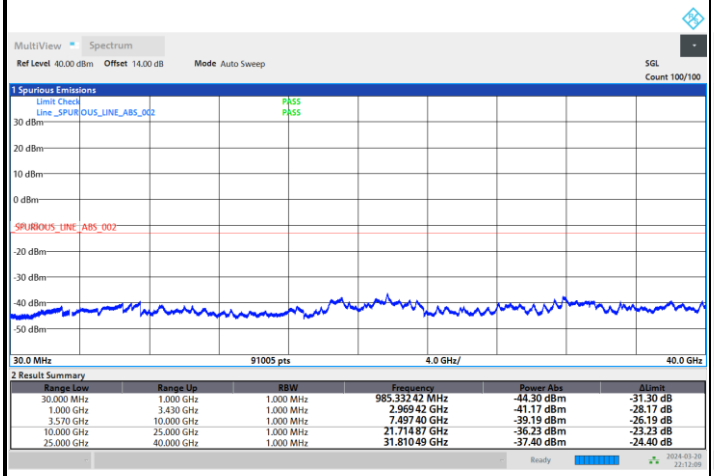
Highest Band Edge / Full RB



Conducted Spurious Emission

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

Lowest Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	985.332 42 MHz	-44.30 dBm	-31.30 dB
1.000 GHz	3.430 GHz	1.000 MHz	2.969 42 GHz	-41.17 dBm	-28.17 dB
3.570 GHz	10.000 GHz	1.000 MHz	7.497 40 GHz	-39.19 dBm	-26.19 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.714 87 GHz	-36.23 dBm	-23.23 dB
25.000 GHz	40.000 GHz	1.000 MHz	31.810 49 GHz	-37.40 dBm	-24.40 dB

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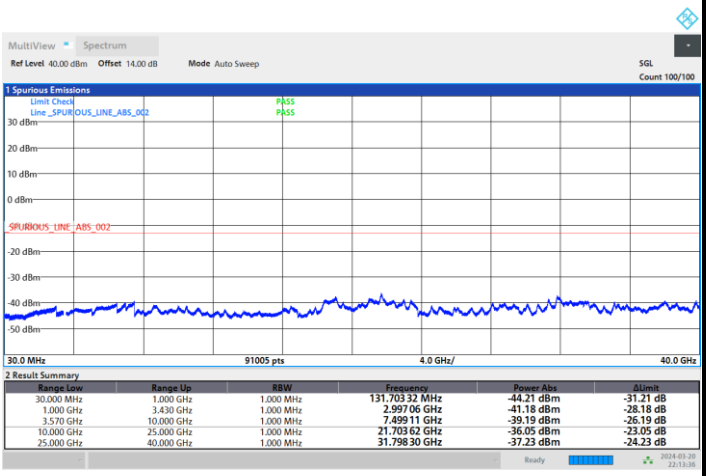
Middle Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	131.703 32 MHz	-44.21 dBm	-31.21 dB
1.000 GHz	3.430 GHz	1.000 MHz	2.997 06 GHz	-41.18 dBm	-28.18 dB
3.570 GHz	10.000 GHz	1.000 MHz	7.499 11 GHz	-39.19 dBm	-26.19 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.703 62 GHz	-36.05 dBm	-23.05 dB
25.000 GHz	40.000 GHz	1.000 MHz	31.798 30 GHz	-37.23 dBm	-24.23 dB

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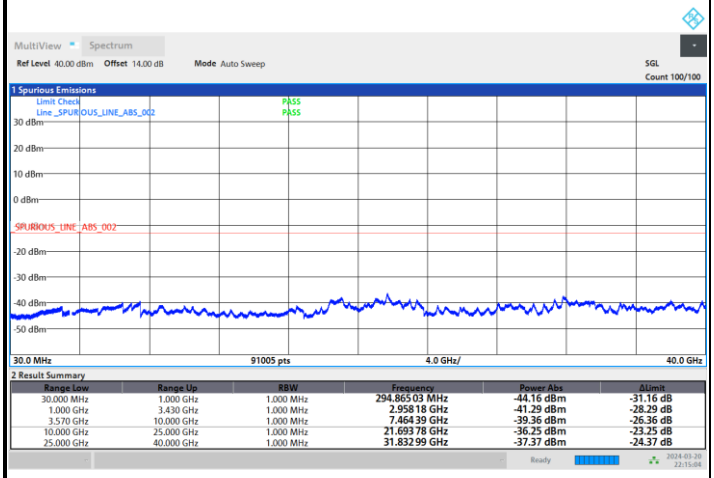
Highest Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	294.865 03 MHz	-44.16 dBm	-31.16 dB
1.000 GHz	3.430 GHz	1.000 MHz	2.958 18 GHz	-41.29 dBm	-28.29 dB
3.570 GHz	10.000 GHz	1.000 MHz	7.464 39 GHz	-39.36 dBm	-26.36 dB
10.000 GHz	25.000 GHz	1.000 MHz	21.693 78 GHz	-36.25 dBm	-23.25 dB
25.000 GHz	40.000 GHz	1.000 MHz	31.832 99 GHz	-37.37 dBm	-24.37 dB

10:15:05 PM 03/20/2024

Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage = 3.89 V.；Battery End Point (BEP) = 3.6 V.；Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

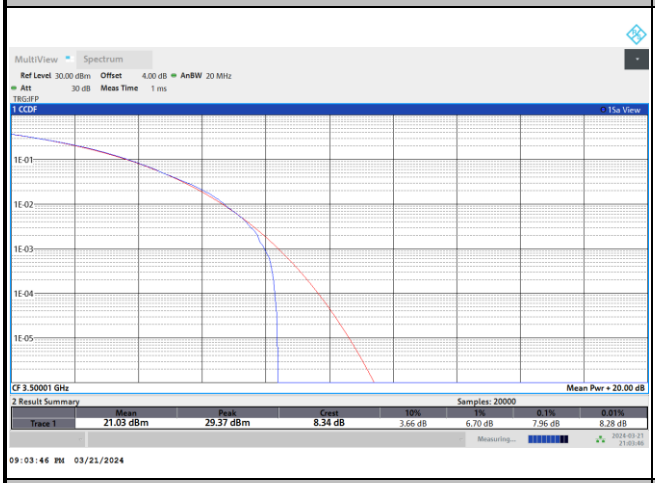
MIMO <Ant. 6+1> (1)

Peak-to-Average Ratio

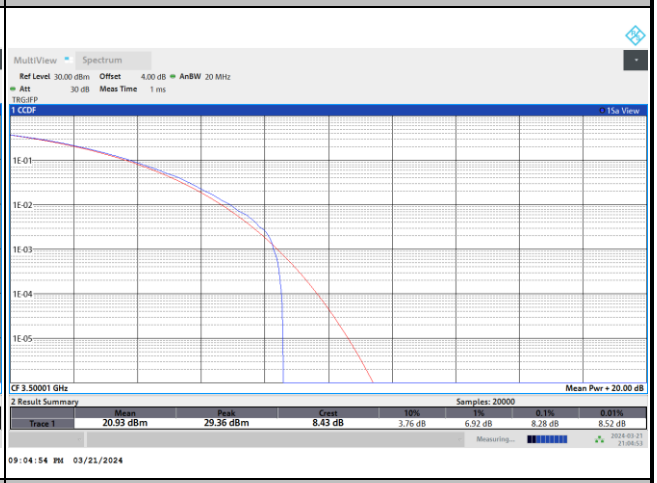
Mode	FR1 n77 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	7.96	8.28	8.22	8.80	PASS

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

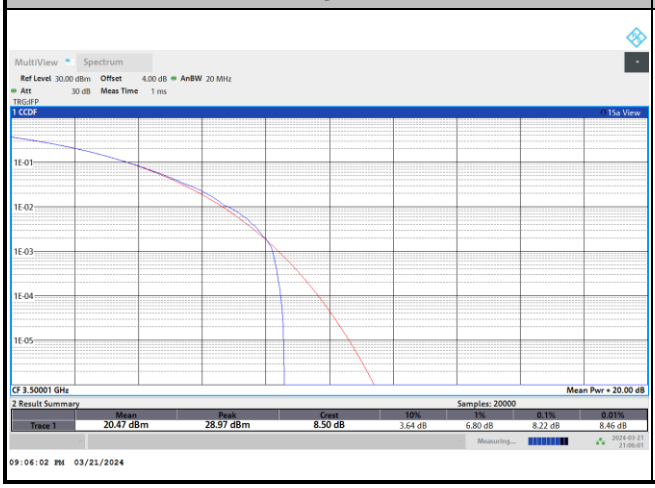
QPSK



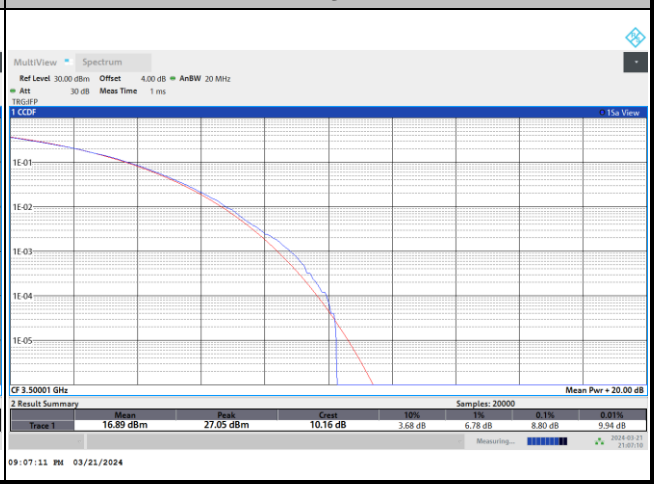
16QAM



64QAM

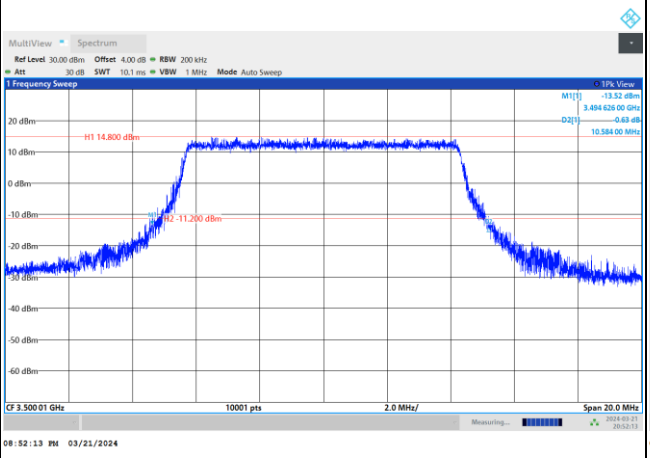
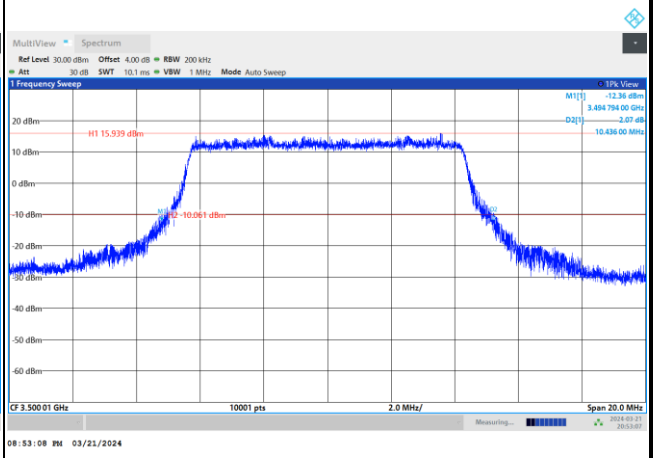
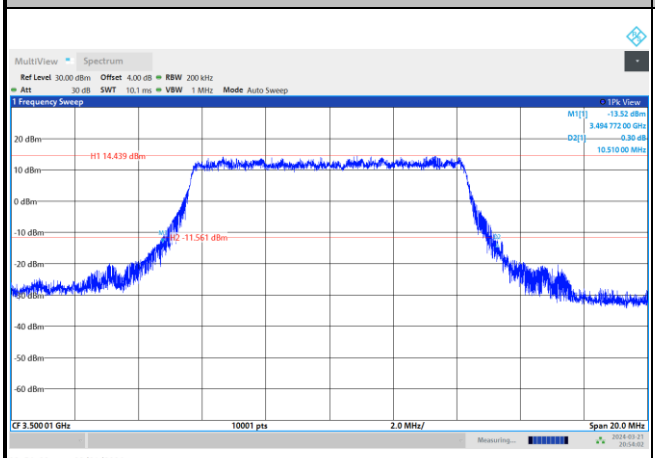
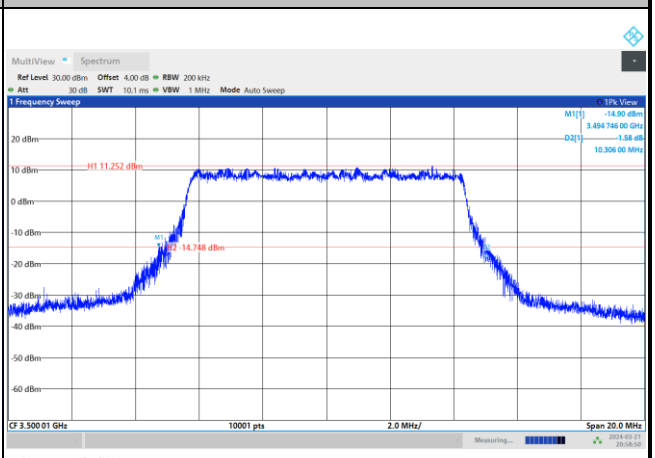


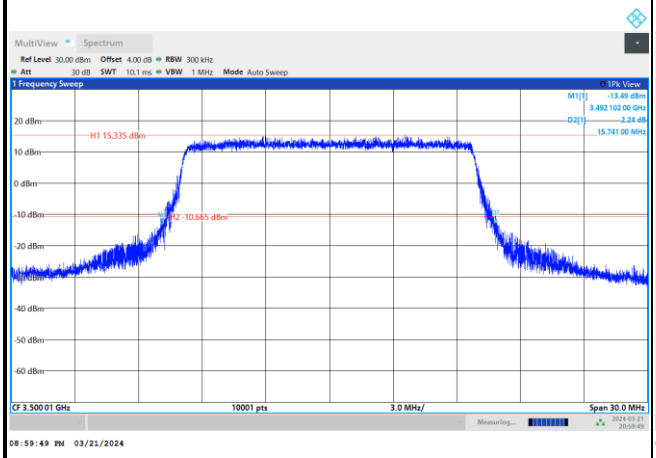
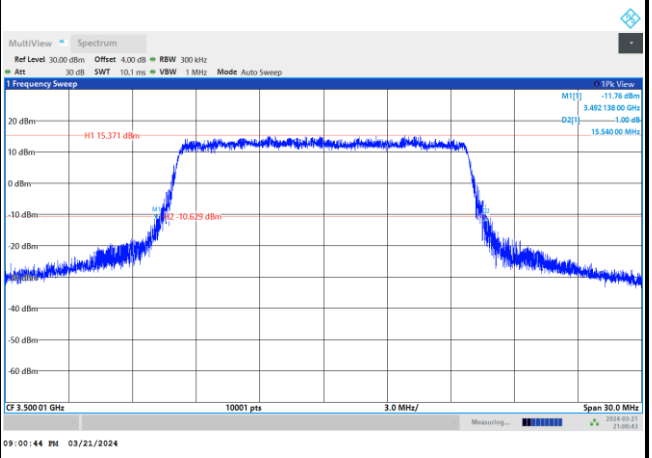
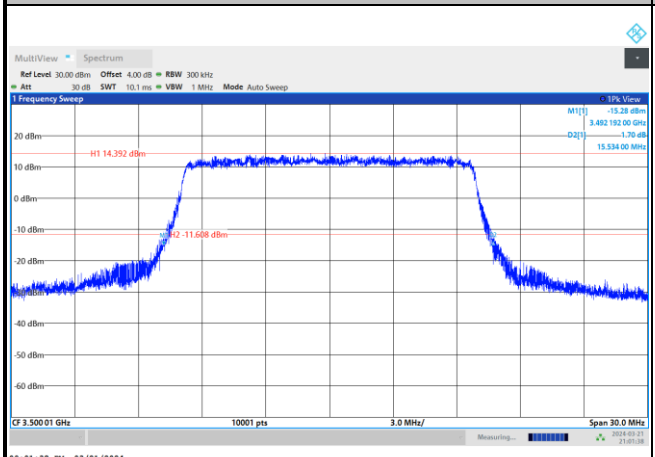
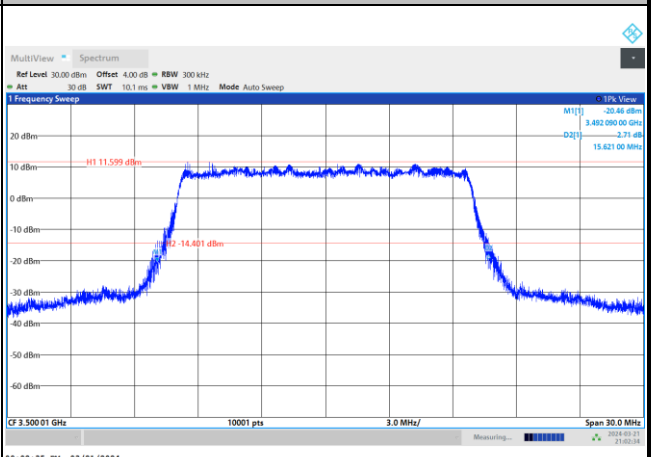
256QAM

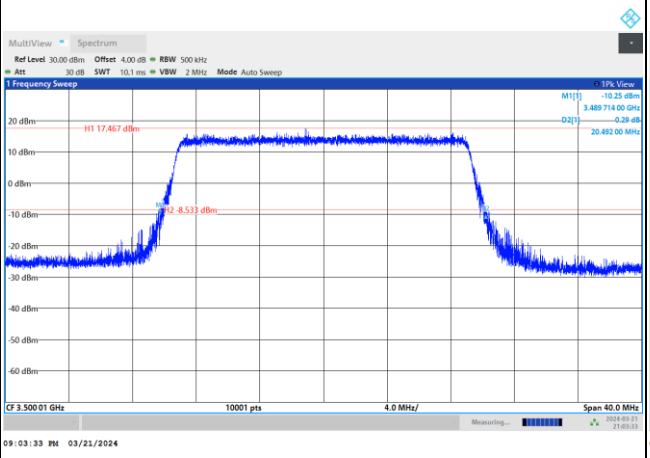
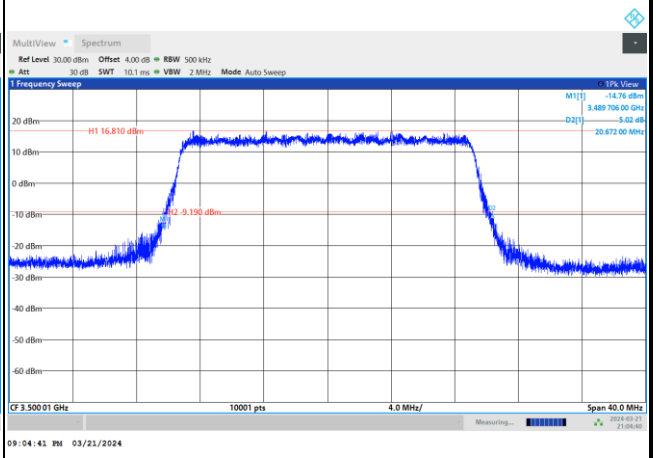
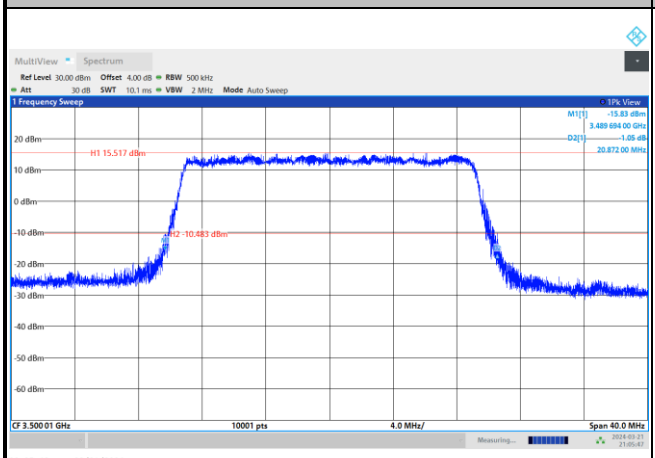
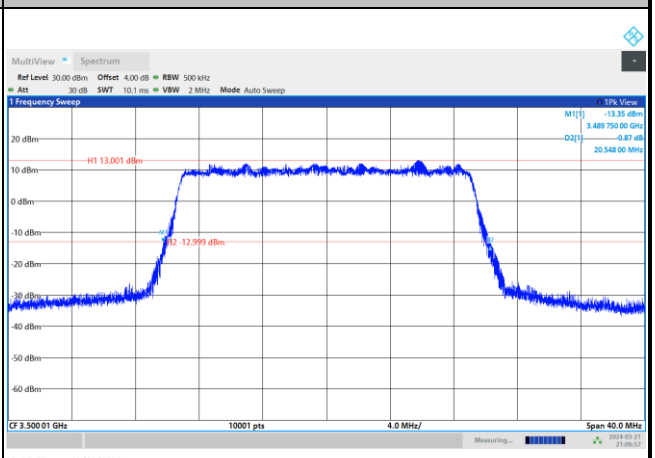


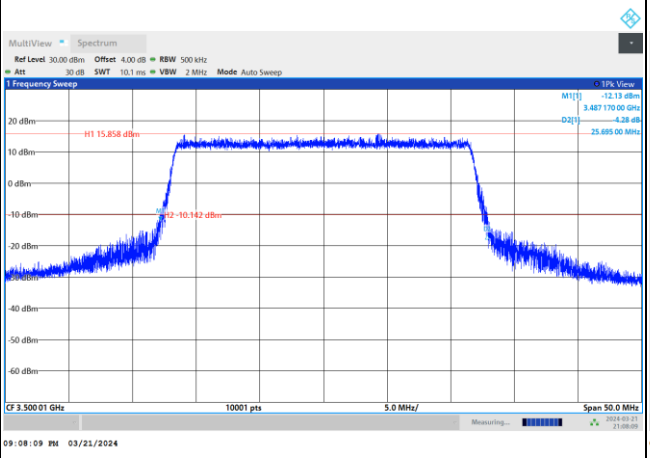
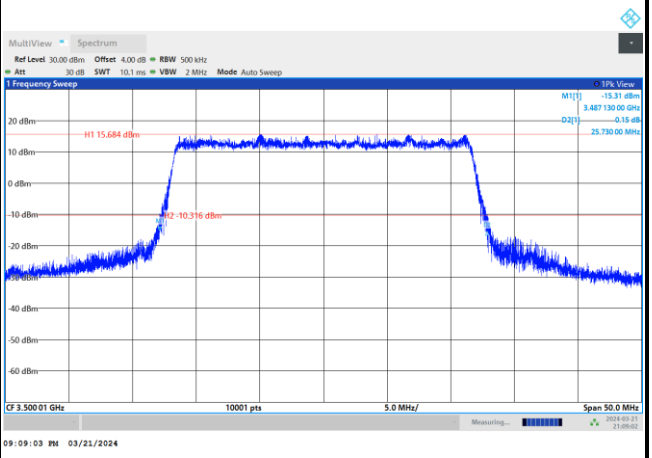
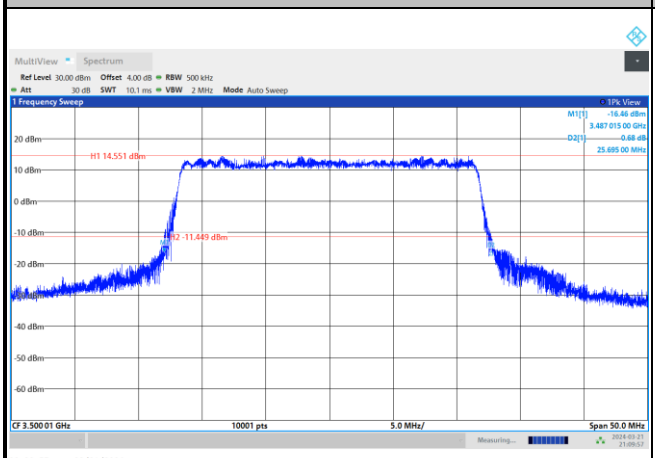
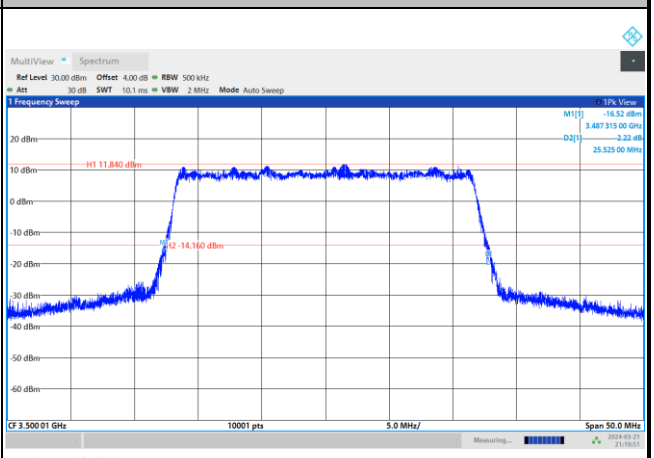
26dB Bandwidth

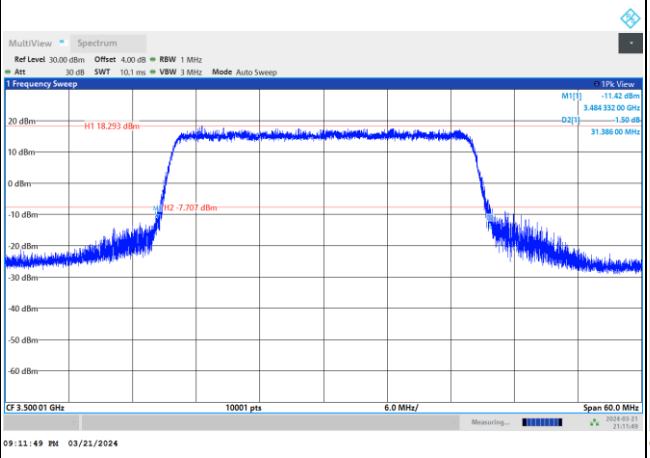
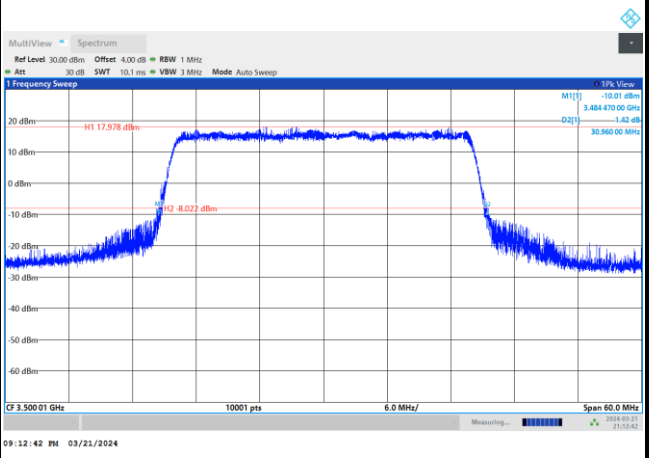
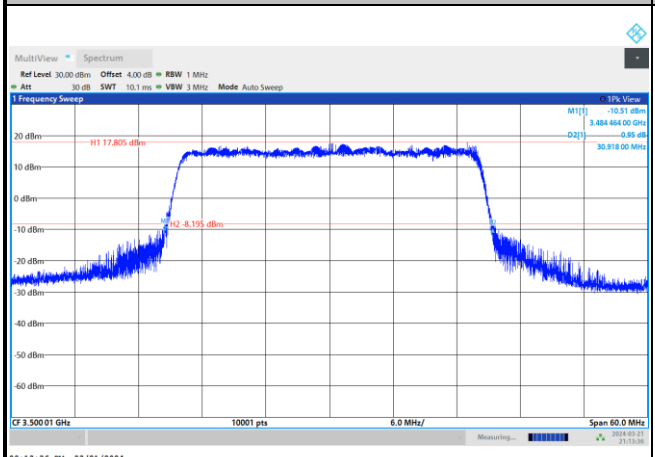
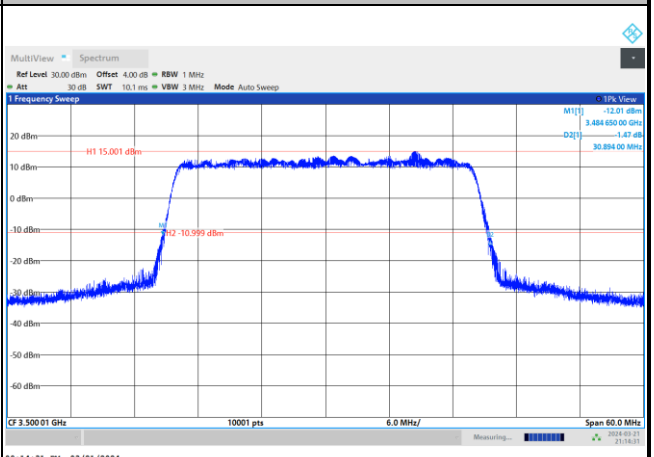
Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.58	10.44	15.74	15.54	20.49	20.67	25.69	25.73
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.51	10.31	15.53	15.62	20.87	20.55	25.69	25.52
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	31.39	30.96	43.18	42.23	51.93	52.01	67.19	66.71
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	30.92	30.89	42.59	42.25	52.26	51.90	66.38	67.16
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	76.99	76.77	84.10	84.99	96.57	96.57	106.42	107.32
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	76.26	76.10	85.07	83.71	97.47	95.83	106.86	106.24

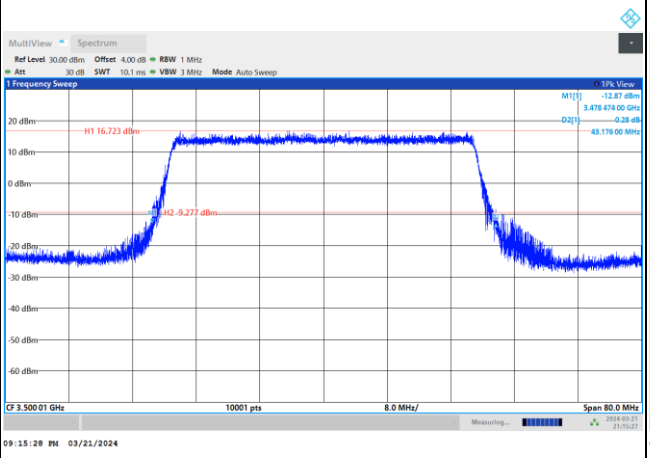
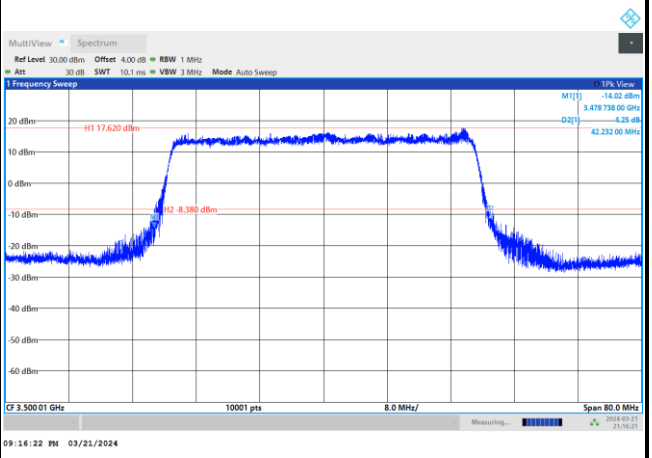
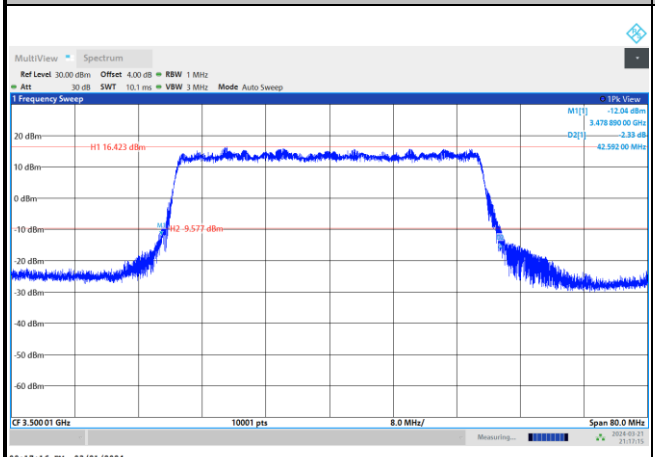
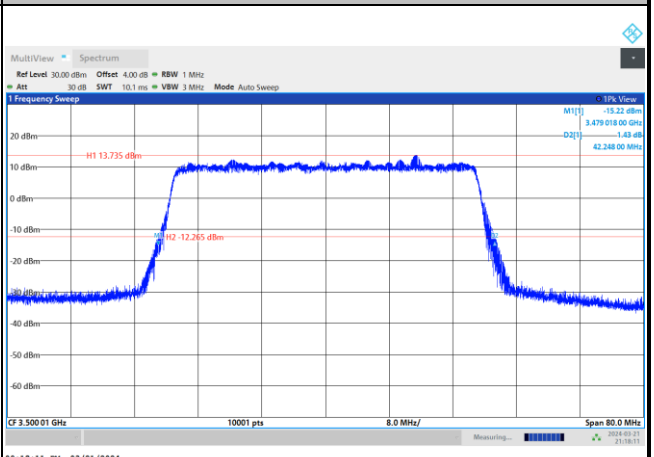
FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

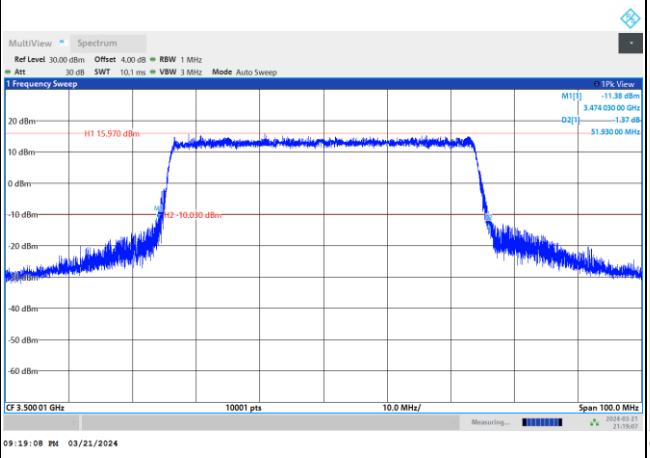
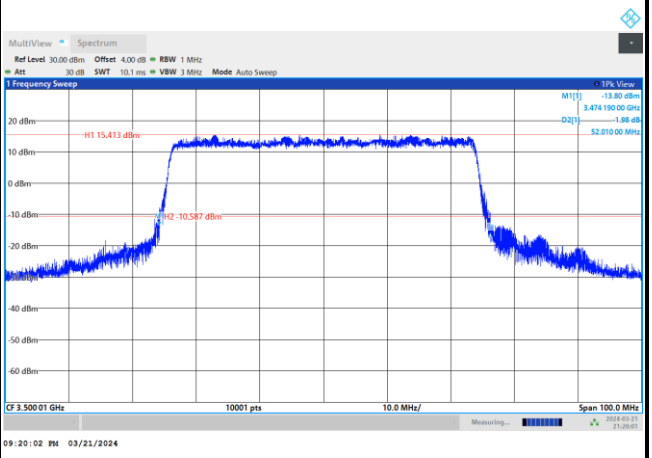
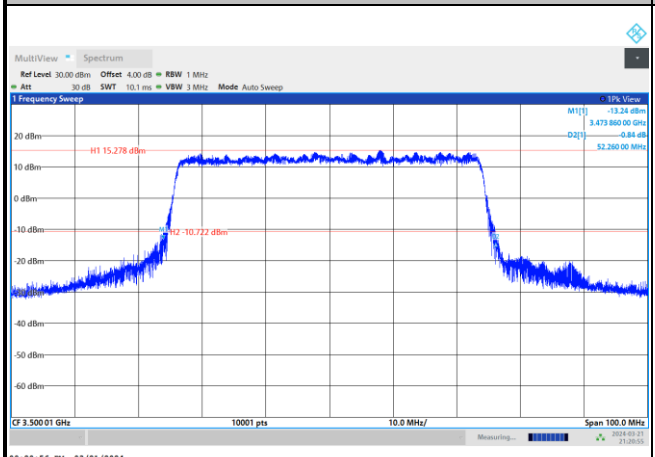
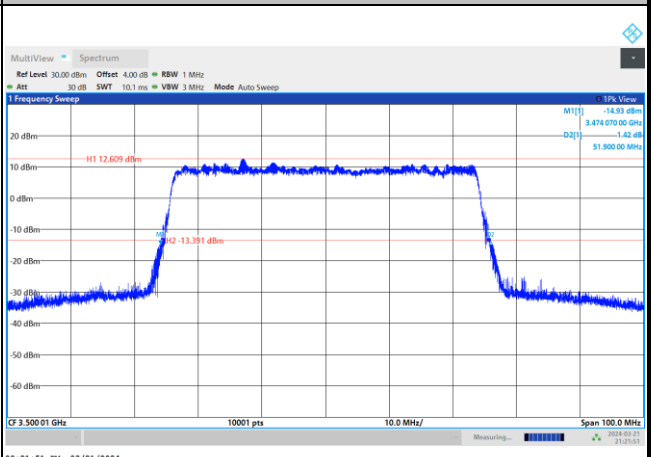
FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

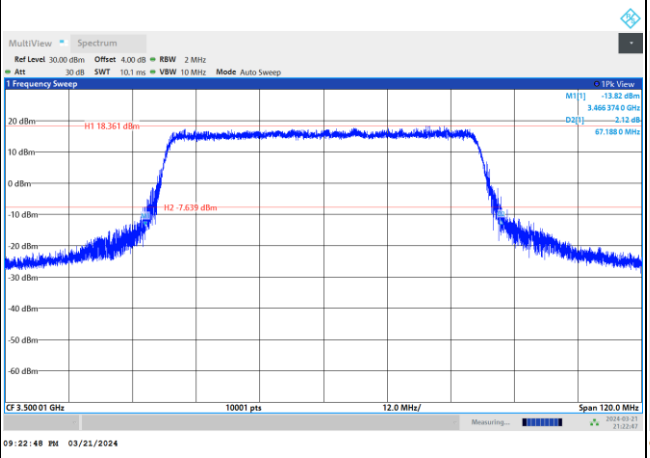
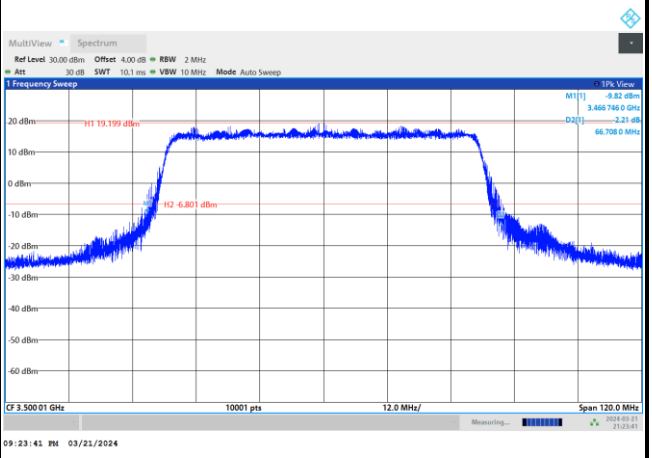
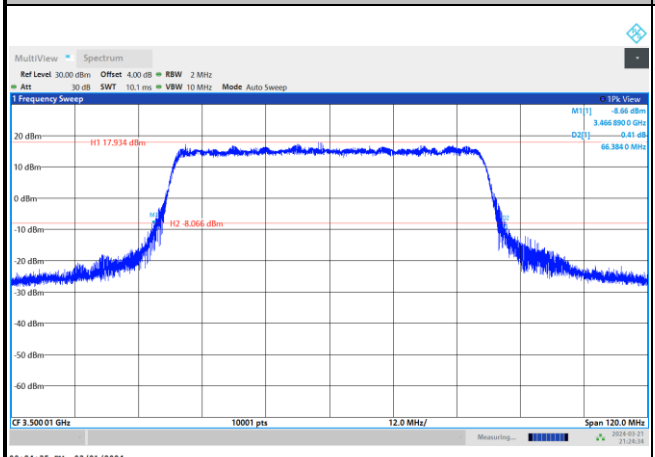
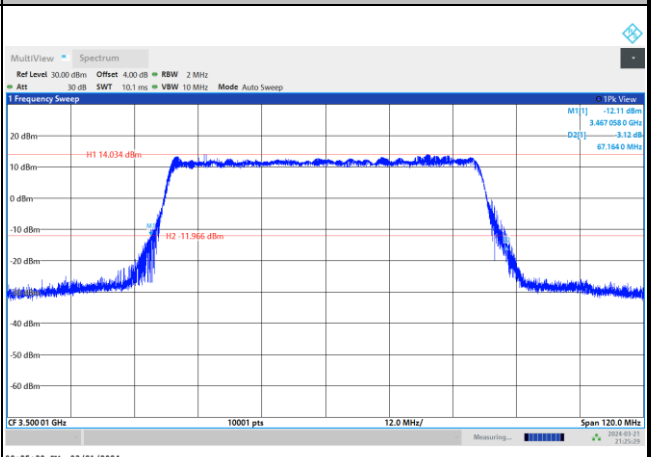
FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

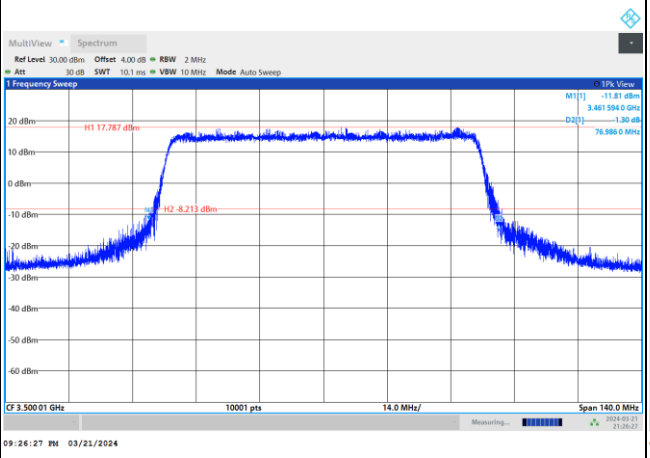
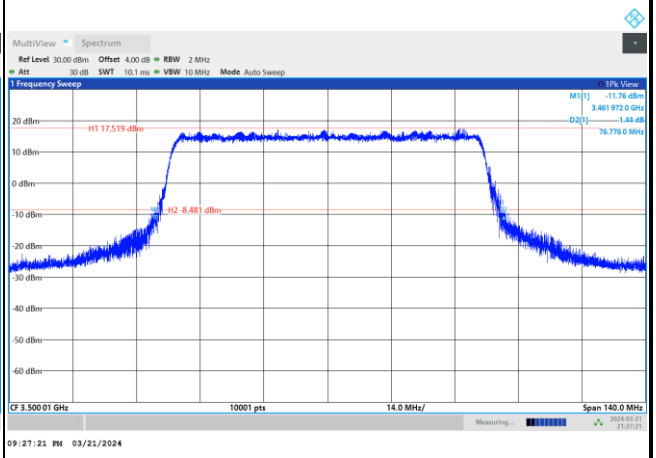
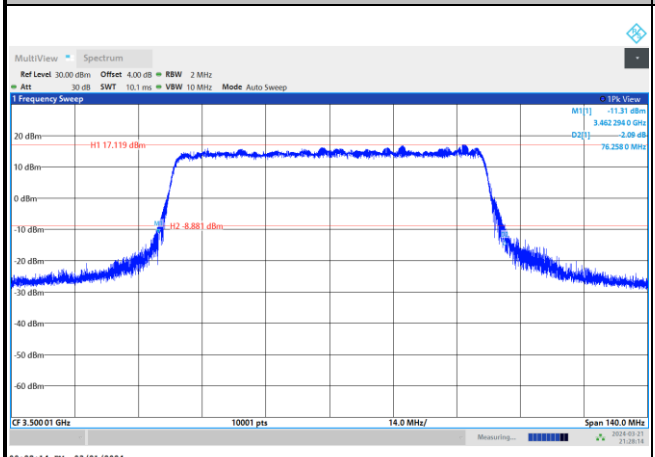
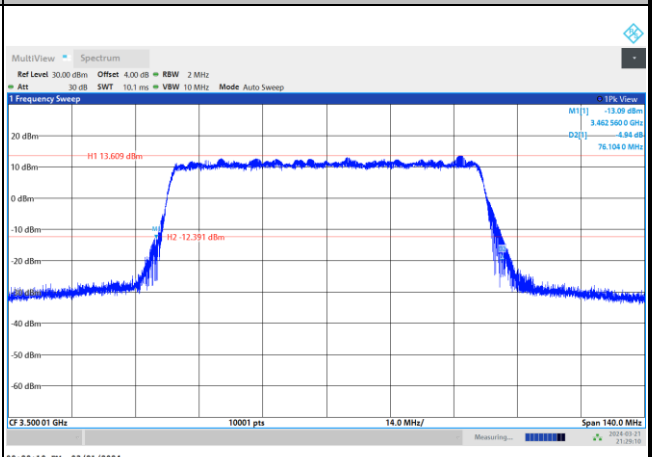
FR1 n77 / 25MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

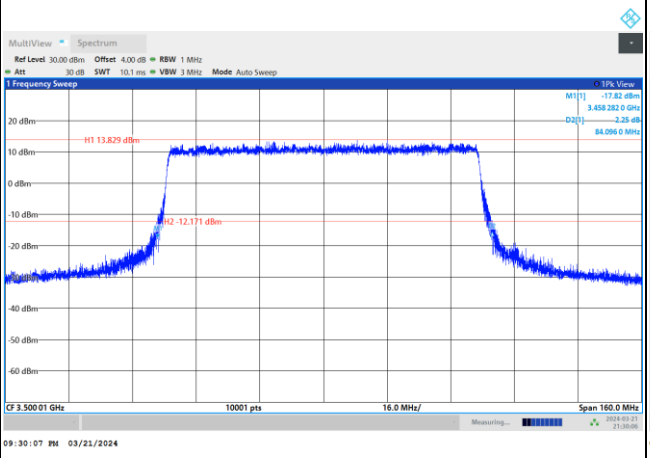
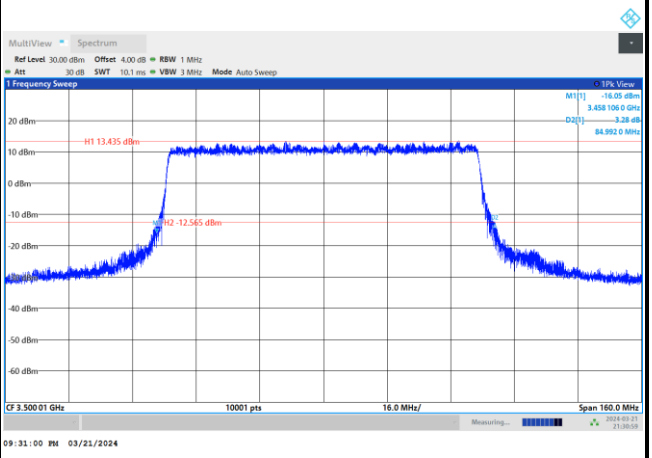
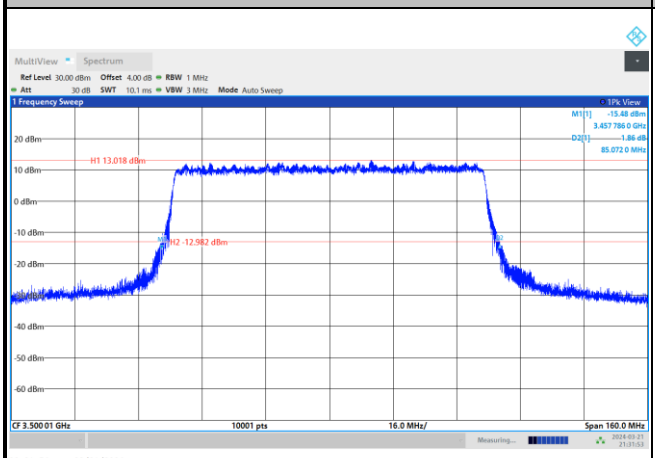
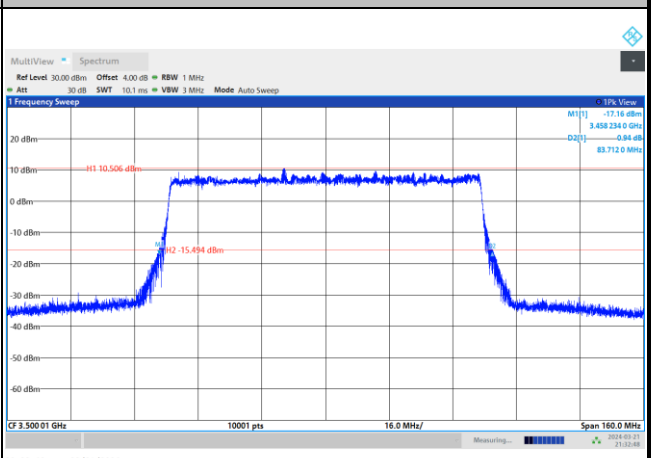
FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

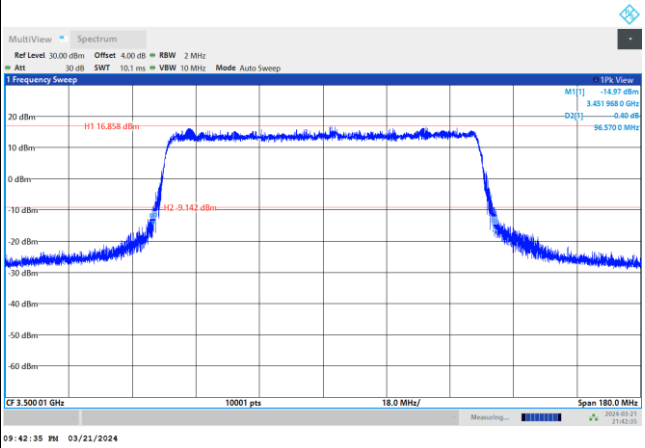
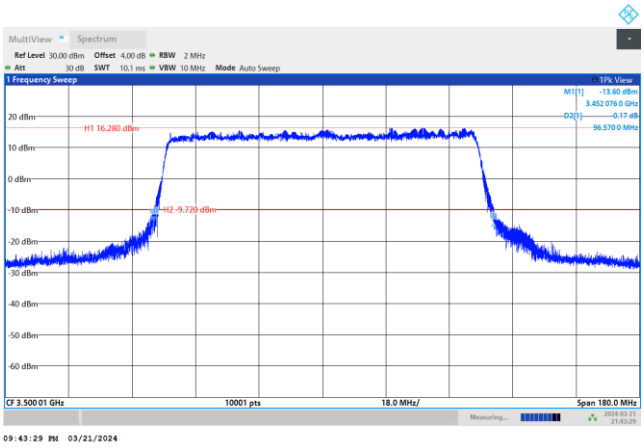
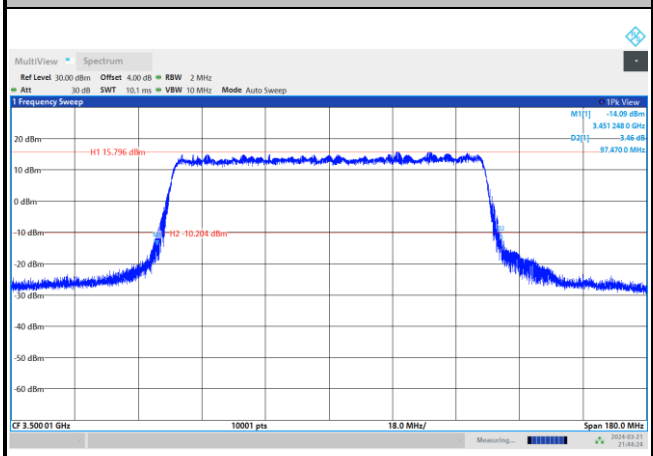
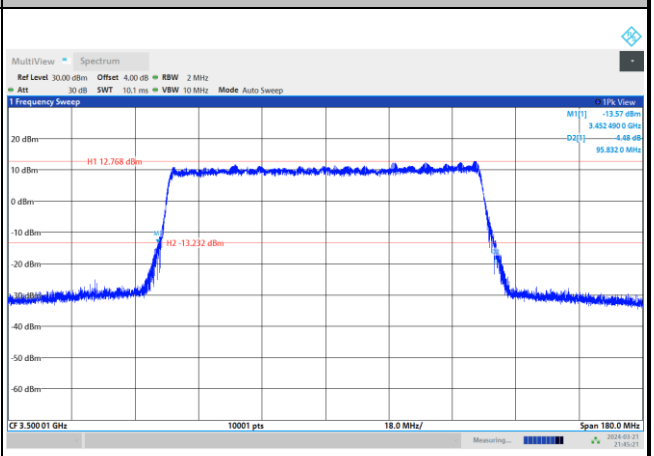
FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

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 / 70MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM