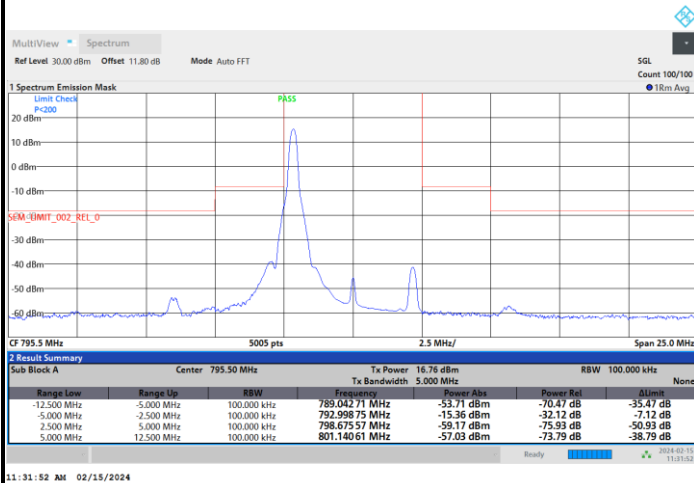




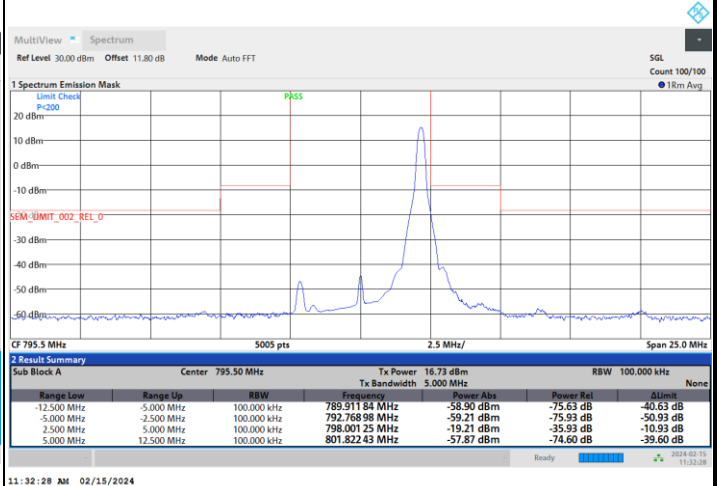
FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

Highest Channel

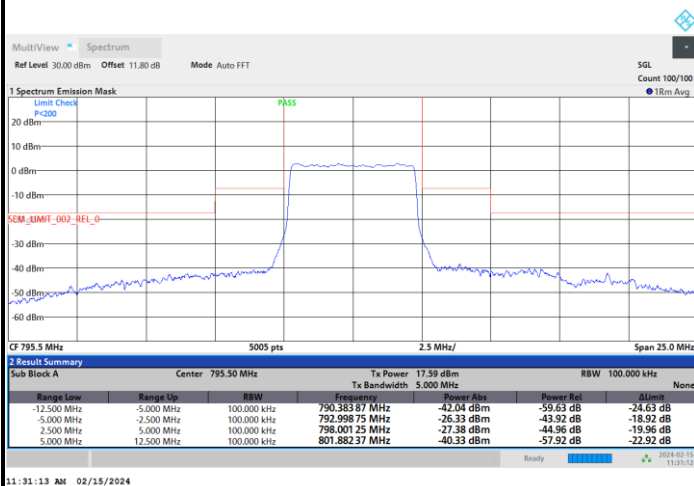
1RB0



1RBmax



Full RB

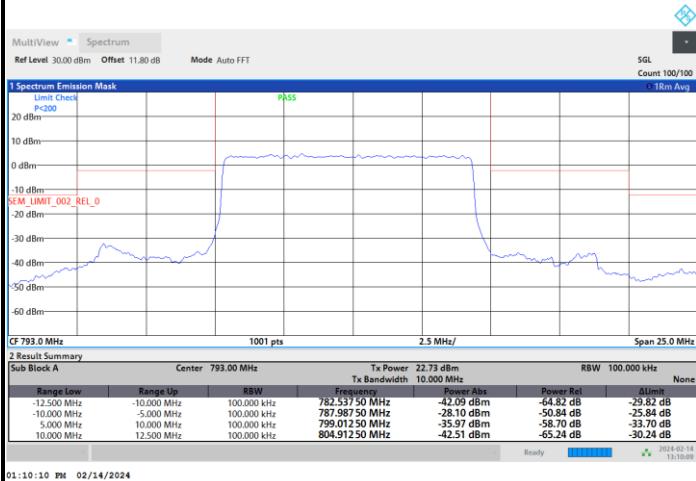




FR1 n14 / 10MHz / DFT-S OFDM / BPSK

Middle Channel

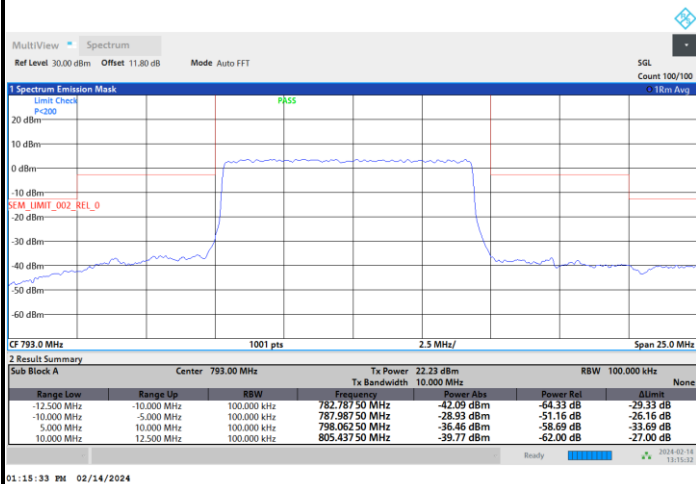
Full RB



FR1 n14 / 10MHz / DFT-S OFDM / QPSK

Middle Channel

Full RB

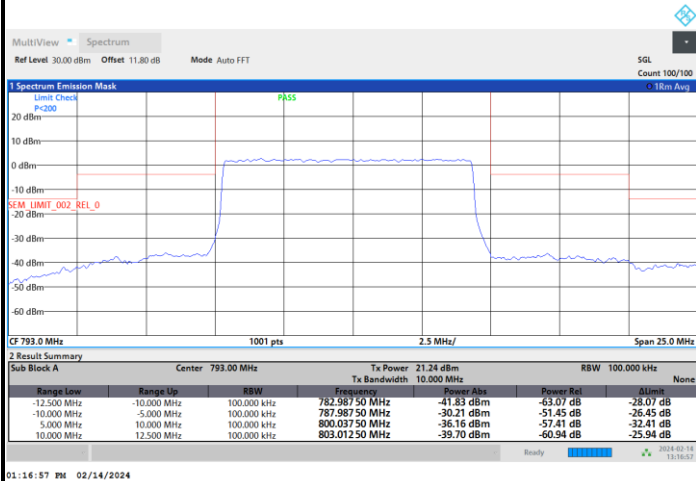




FR1 n14 / 10MHz / DFT-S OFDM / 16QAM

Middle Channel

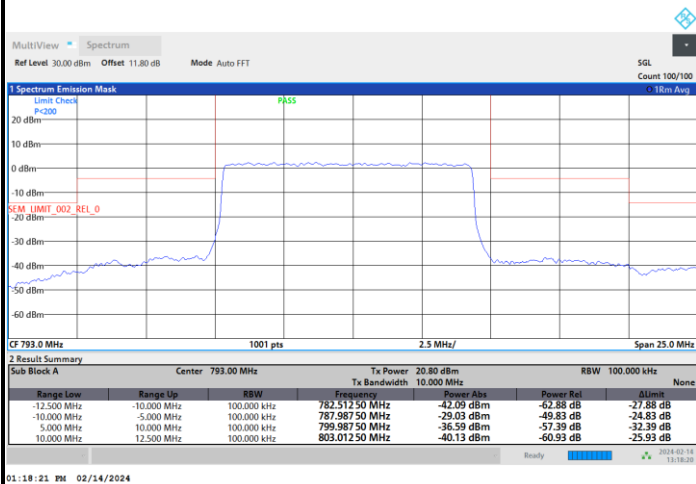
Full RB



FR1 n14 / 10MHz / DFT-S OFDM / 64QAM

Middle Channel

Full RB

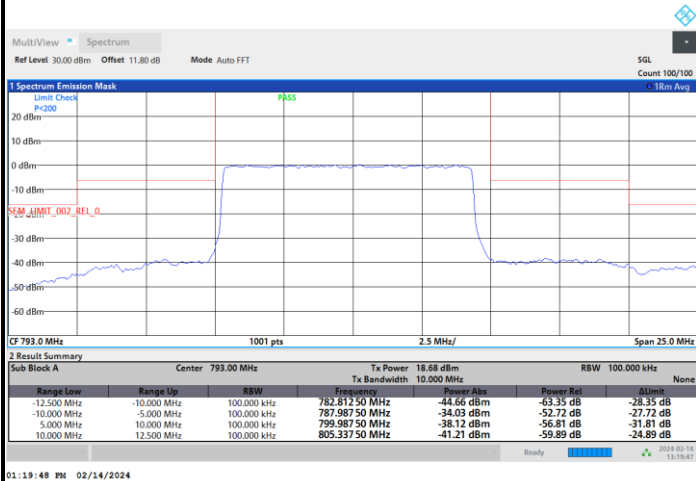




FR1 n14 / 10MHz / DFT-S OFDM / 256QAM

Middle Channel

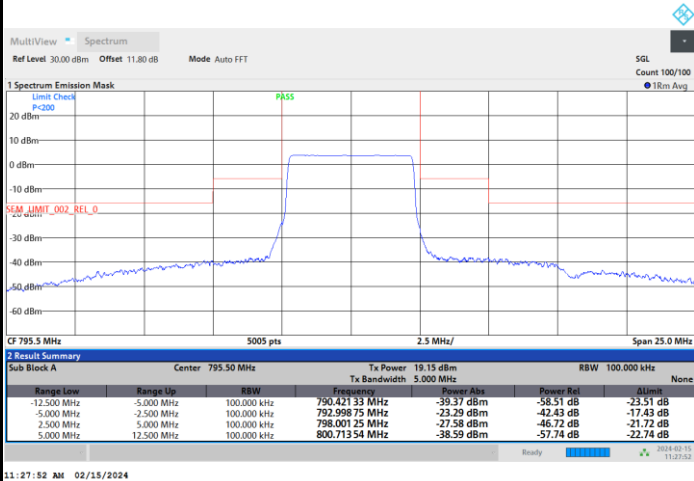
Full RB





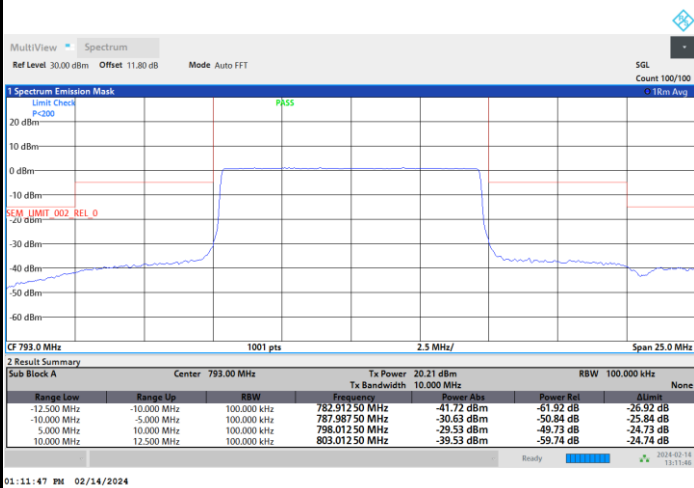
FR1 n14 / 5MHz / CP OFDM / QPSK / Full RB

Highest Channel



FR1 n14 / 10MHz / CP OFDM / QPSK / Full RB

Middle Channel

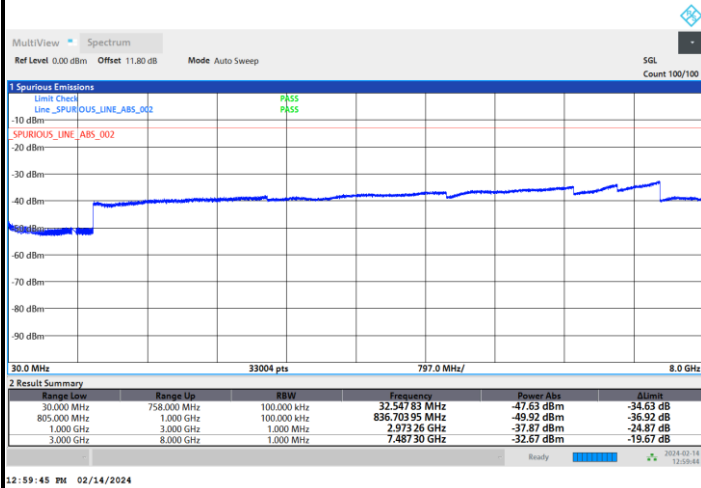




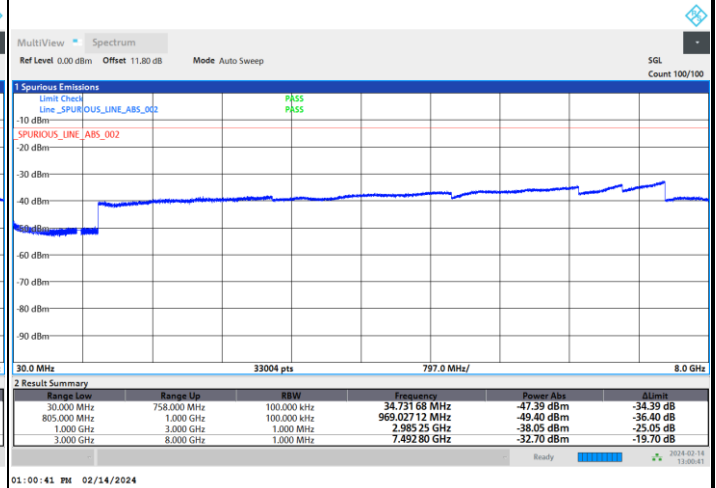
Conducted Spurious Emission

FR1 n14 / 5MHz / DFT-S OFDM / QPSK / 1RB1

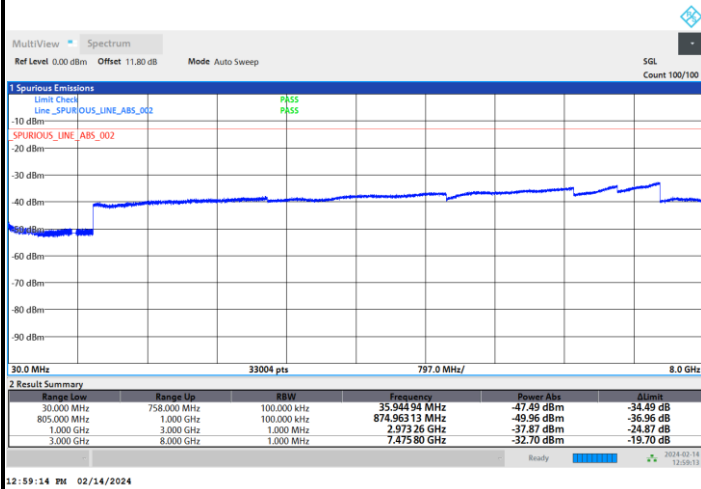
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n14 (PI/2 BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0044	PASS
40	Normal Voltage	0.0146	
30	Normal Voltage	0.0099	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0086	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0092	
-30	Normal Voltage	0.0129	
20	Maximum Voltage	0.0086	
20	Normal Voltage	0.0035	
20	Battery End Point	0.0140	

Note:

1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

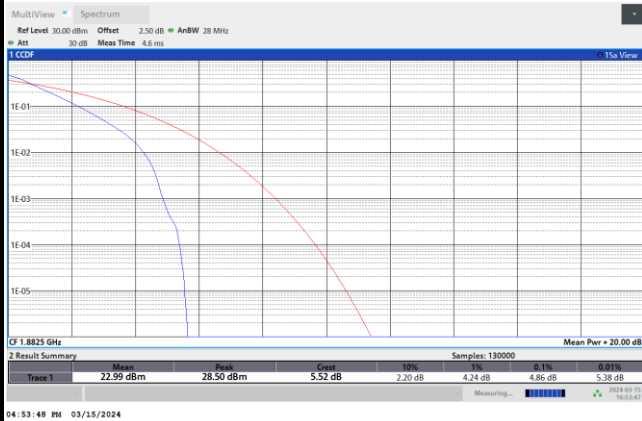
**FR1 n25****Peak-to-Average Ratio**

Mode	FR1 n25 / 25MHz / 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	4.86	5.90	6.76	6.38	PASS
Mode	FR1 n25 / 25MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.88		123		PASS

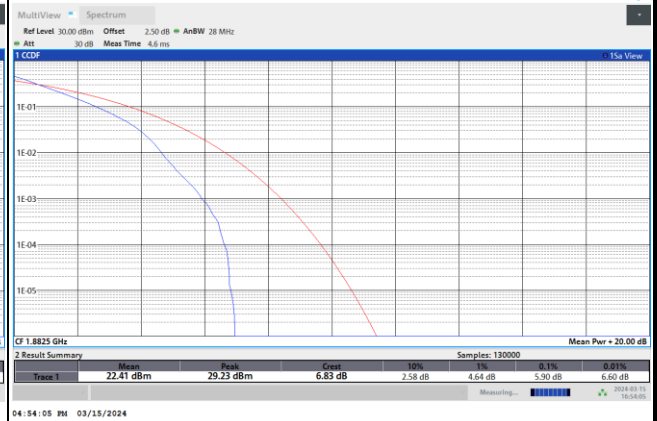


FR1 n25 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

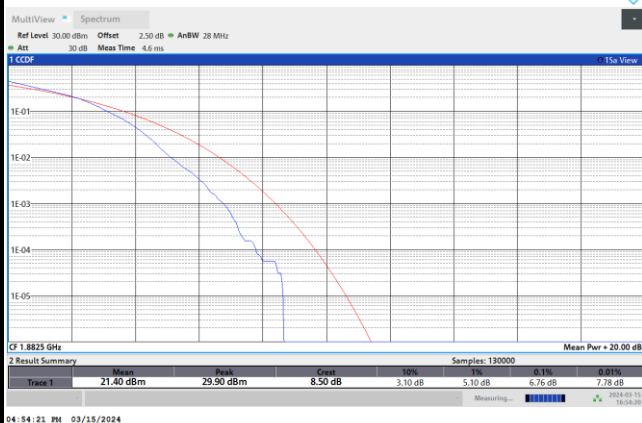
PI/2 BPSK



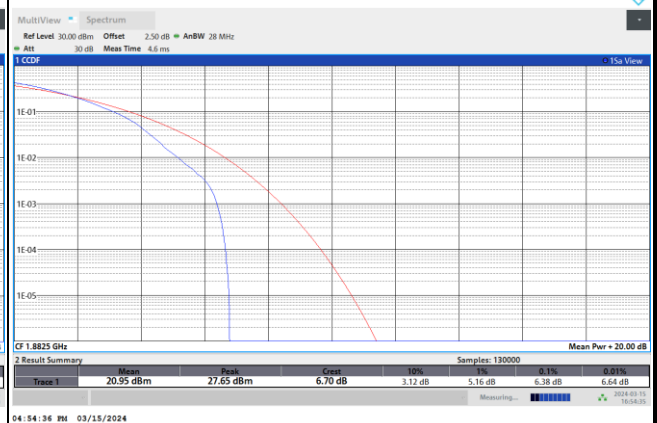
QPSK



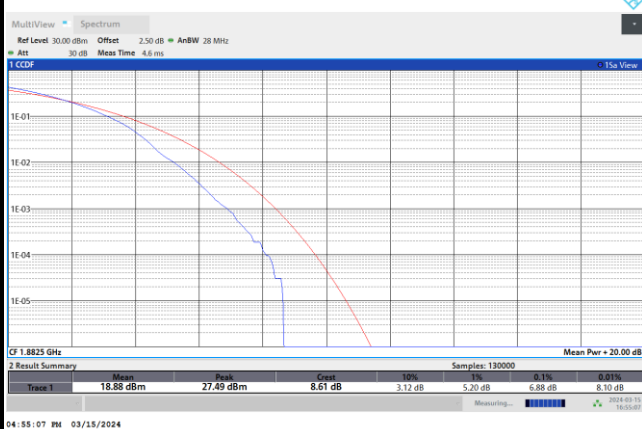
16QAM



64QAM



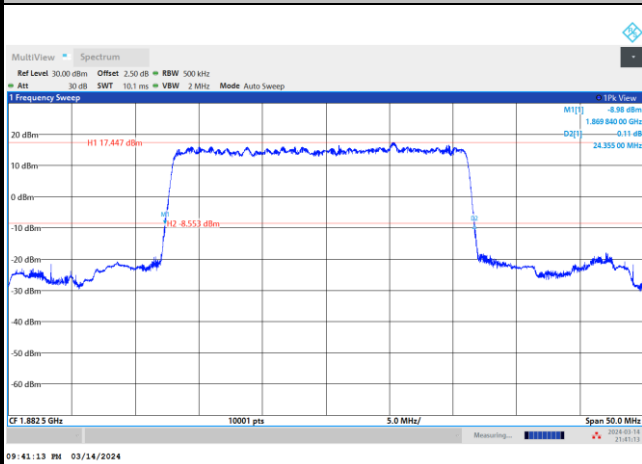
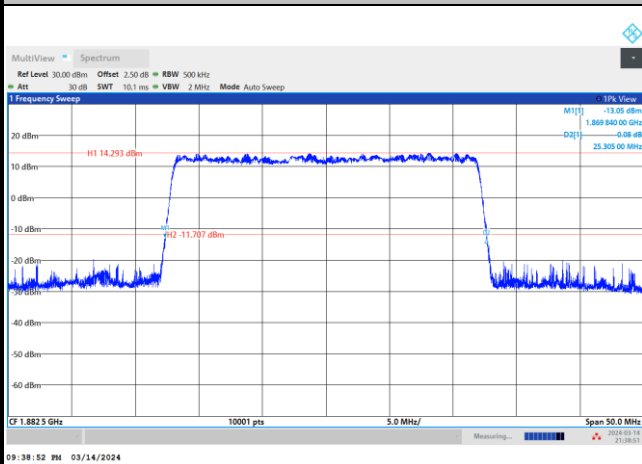
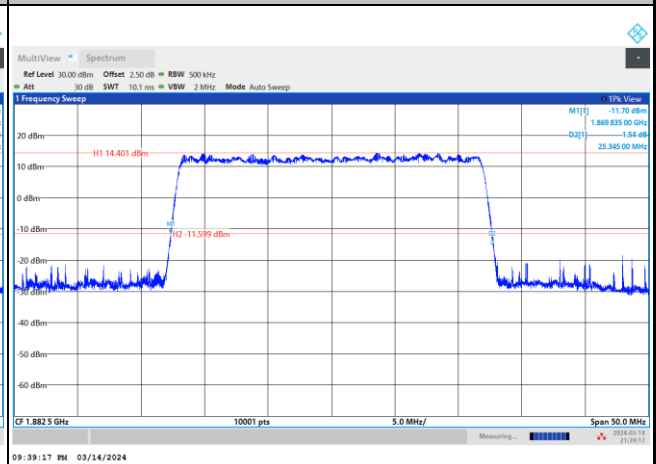
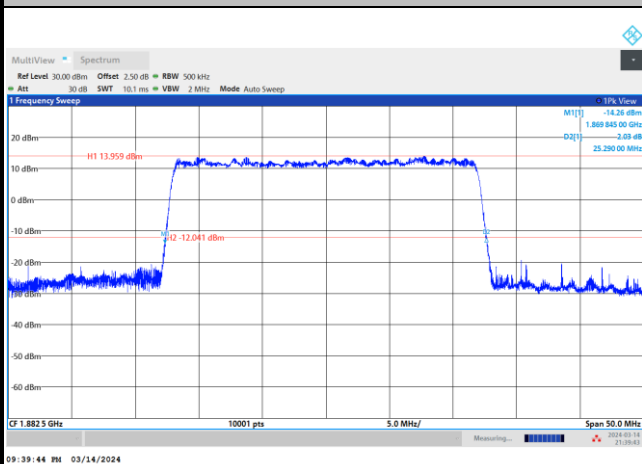
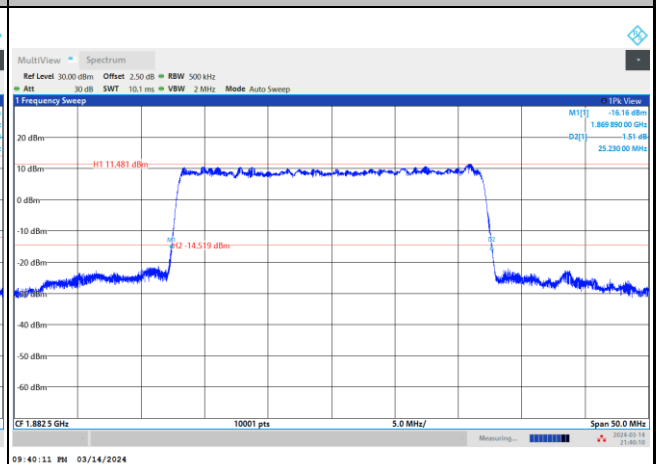
256QAM



**26dB Bandwidth**

Mode	FR1 n25 : 26dB BW(MHz) / DFT-S OFDM							
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	24.35		31.24		34.74		41.18	

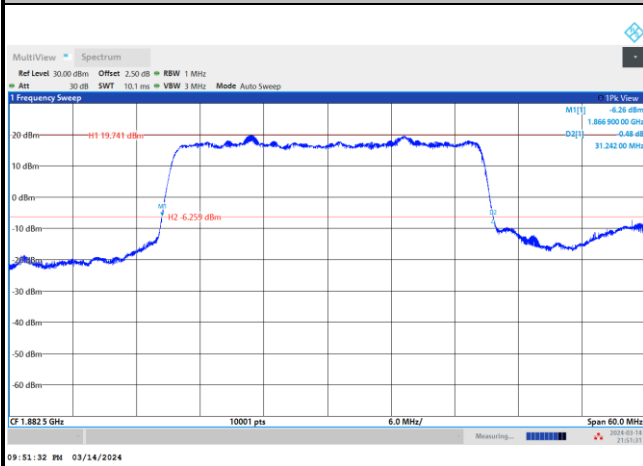
Mode	FR1 n25 : 26dB BW(MHz) / CP OFDM							
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	25.30	25.34	31.05	30.91	36.12	36.09	41.13	41.18
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	25.29	25.23	31.06	30.63	52.23	36.08	41.12	46.59

FR1 n25 / 25MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n25 / 25MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM




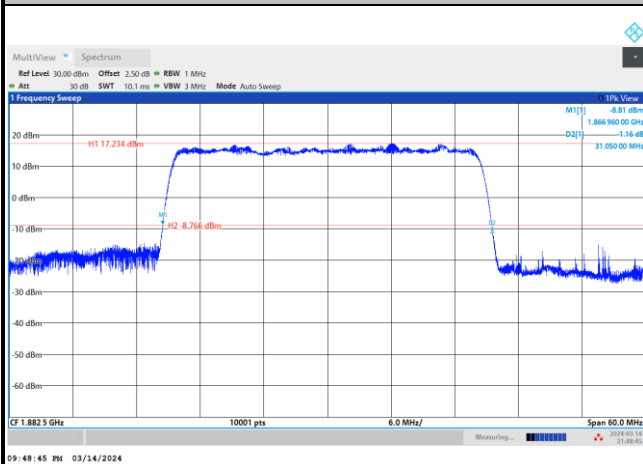
FR1 n25 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

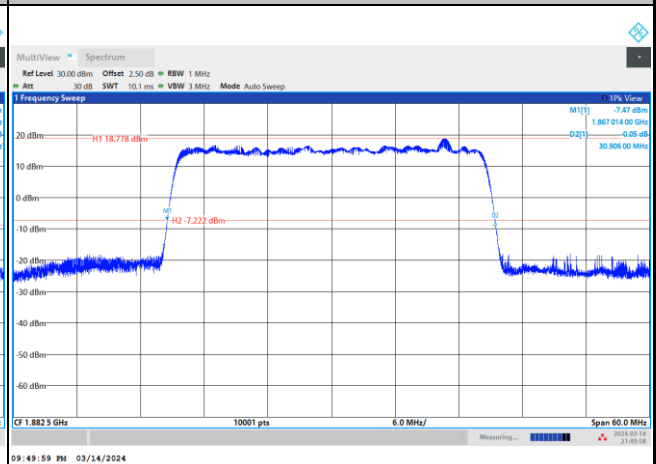


FR1 n25 / 30MHz / CP OFDM / Middle Channel / Full RB

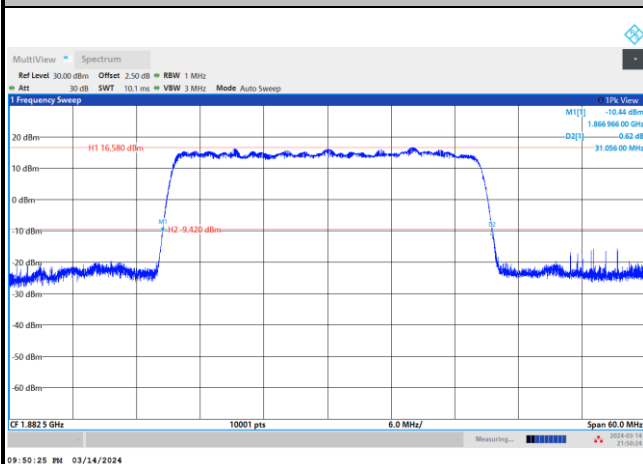
QPSK



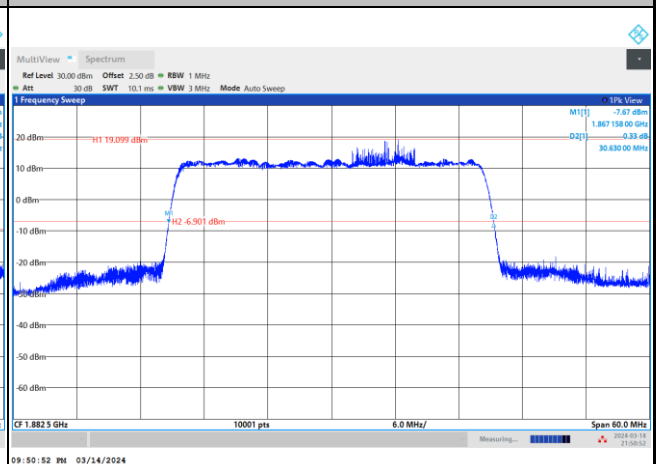
16QAM

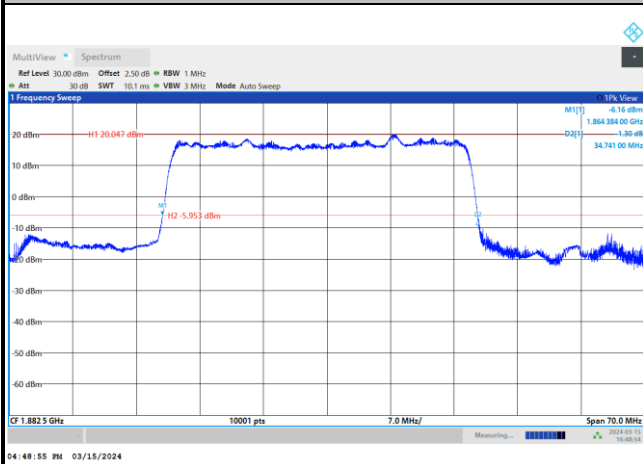
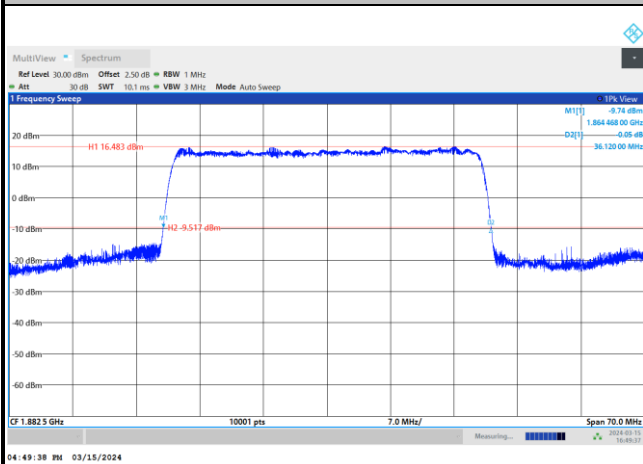
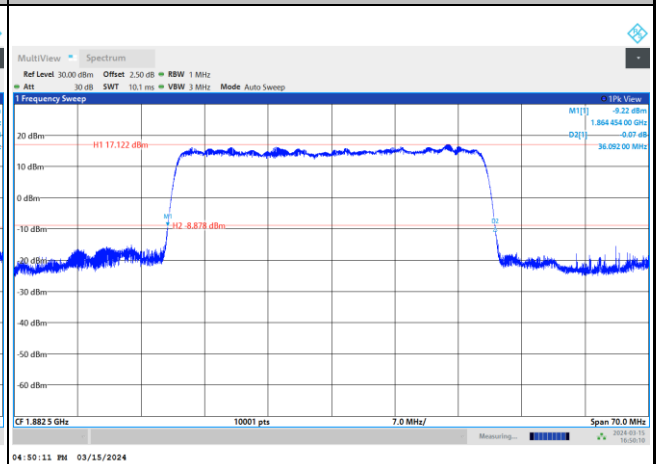
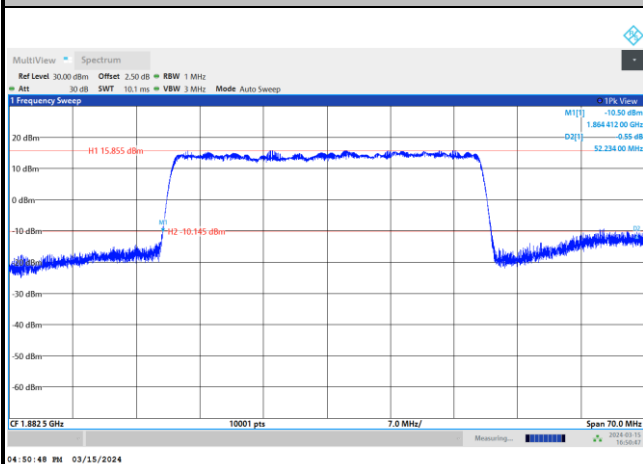
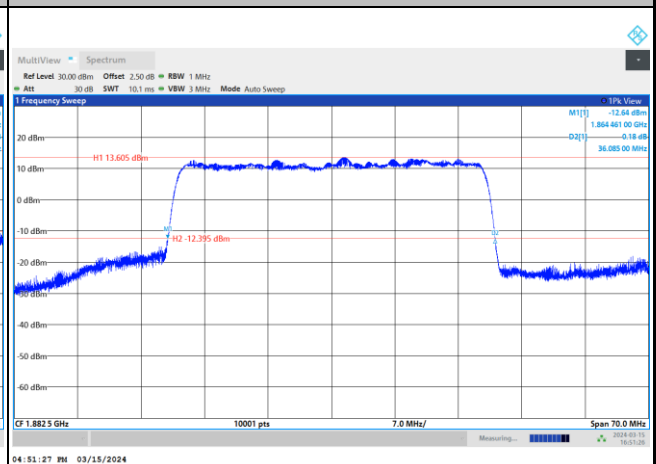


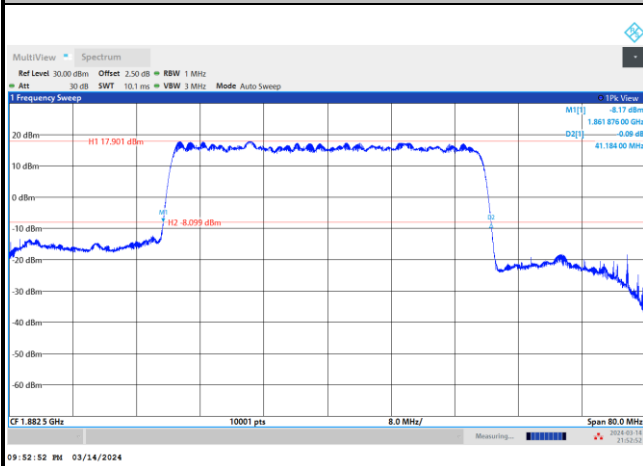
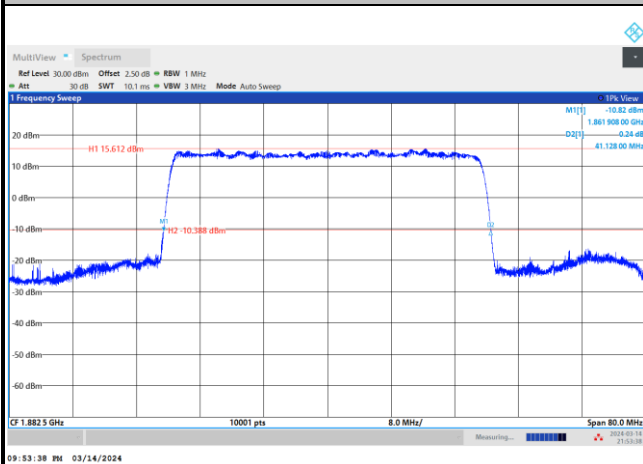
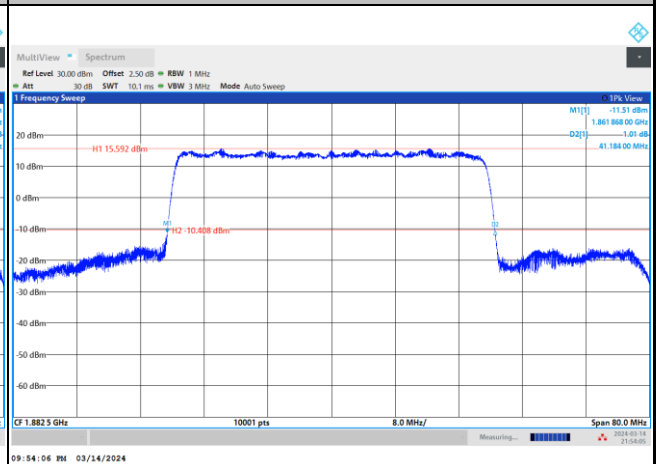
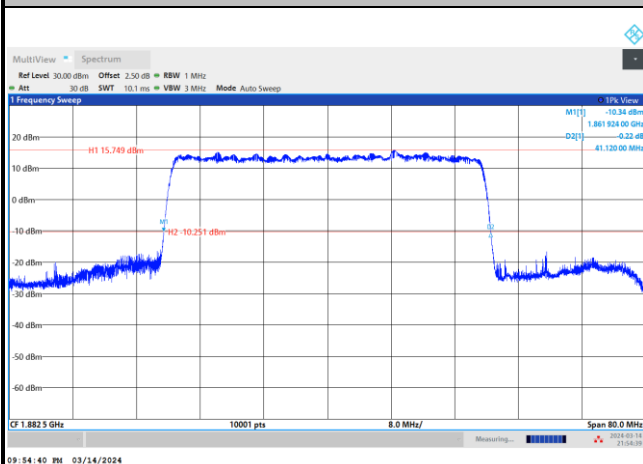
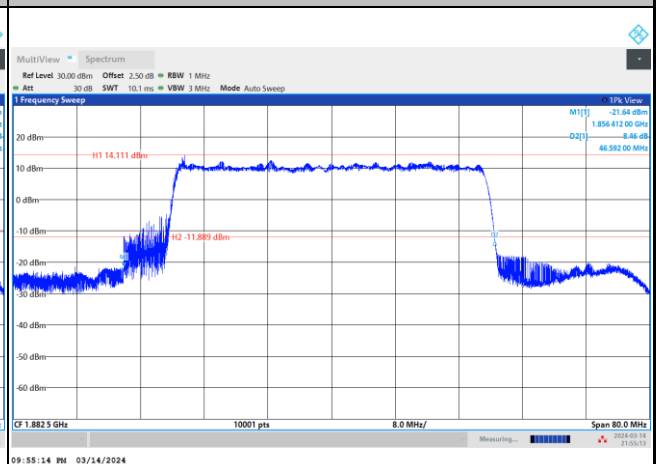
64QAM



256QAM



FR1 n25 / 35MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n25 / 35MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


FR1 n25 / 40MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n25 / 40MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


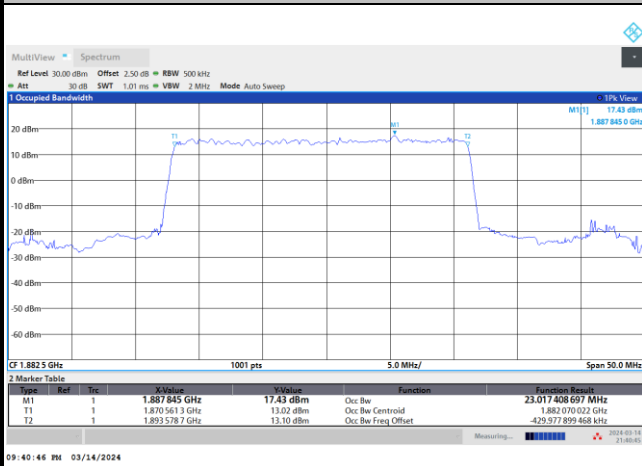
**Occupied Bandwidth**

Mode	FR1 n25 : 99%OBW(MHz) / DFT-S OFDM							
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	23.01		29.04		32.05		38.72	

Mode	FR1 n25 : 99%OBW (MHz) / CP OFDM							
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	23.85	23.82	28.88	28.87	33.91	33.86	38.73	38.74
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	23.83	23.86	28.85	28.85	33.89	33.86	38.89	38.75

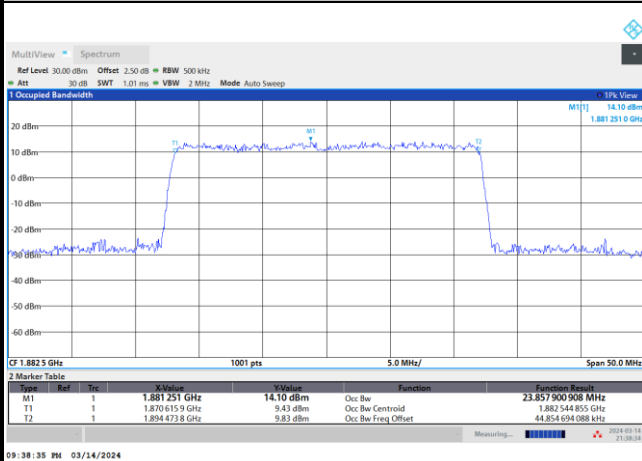
FR1 n25 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

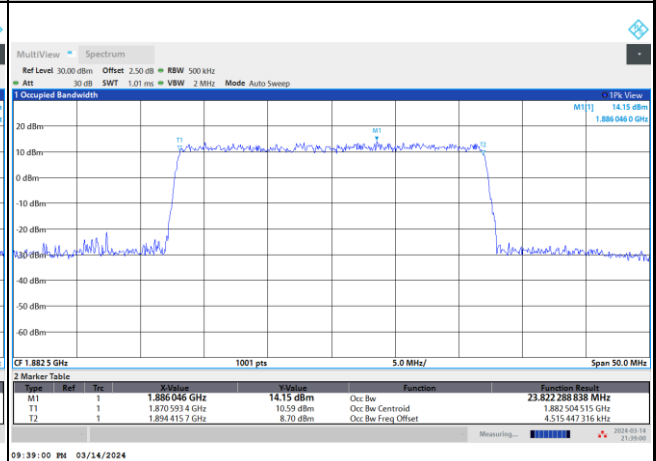


FR1 n25 / 25MHz / CP OFDM / Middle Channel / Full RB

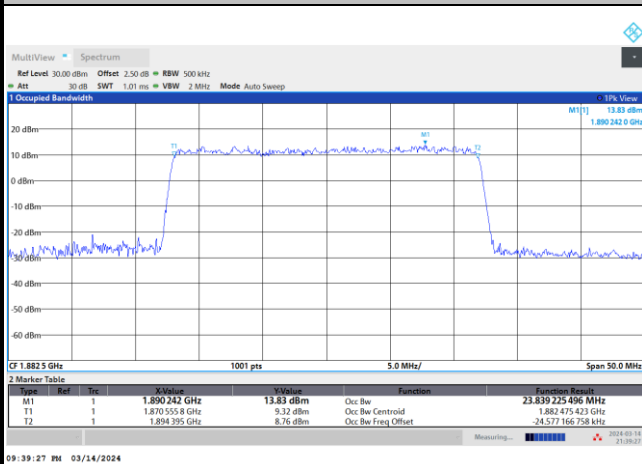
QPSK



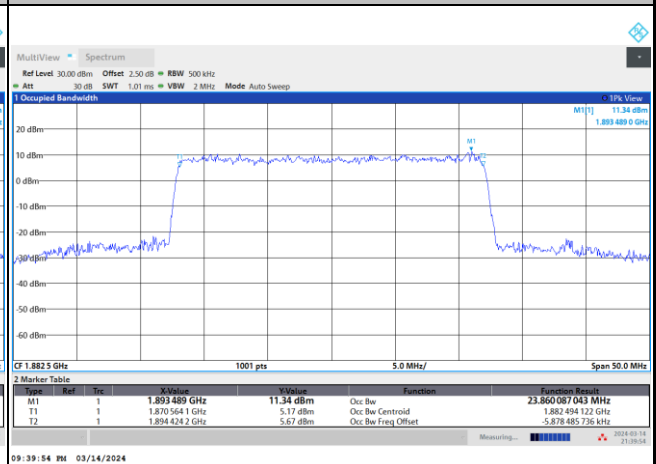
16QAM



64QAM

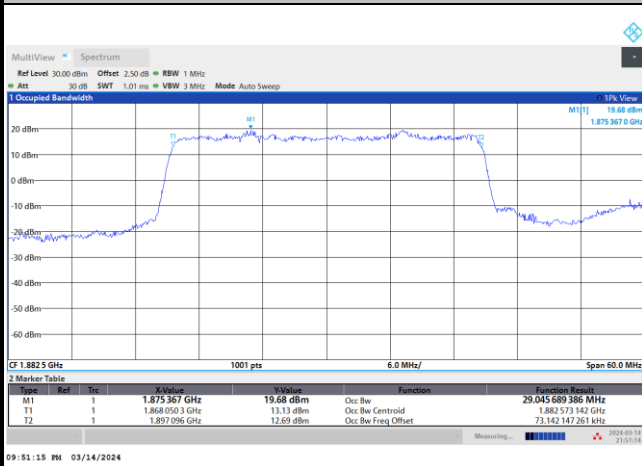


256QAM



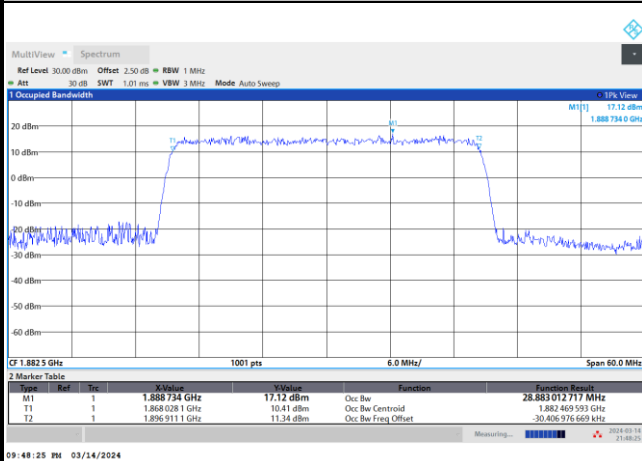
FR1 n25 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 30MHz / CP OFDM / Middle Channel / Full RB

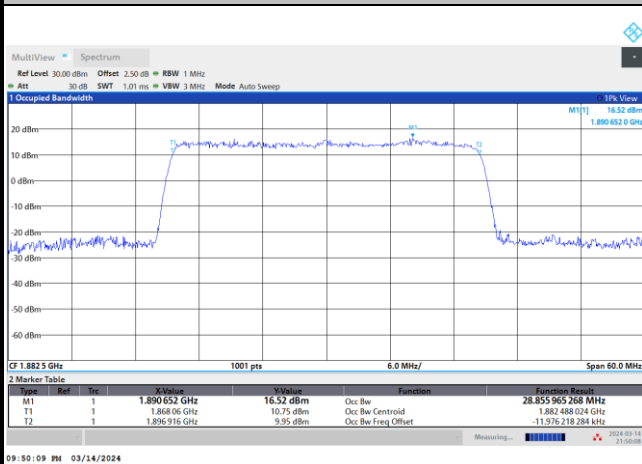
QPSK



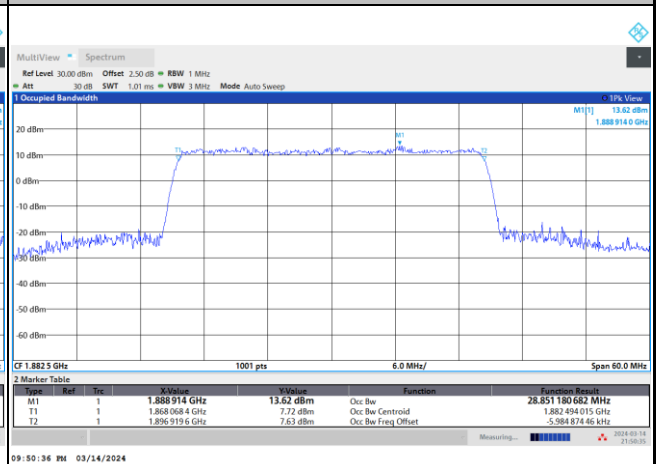
16QAM



64QAM

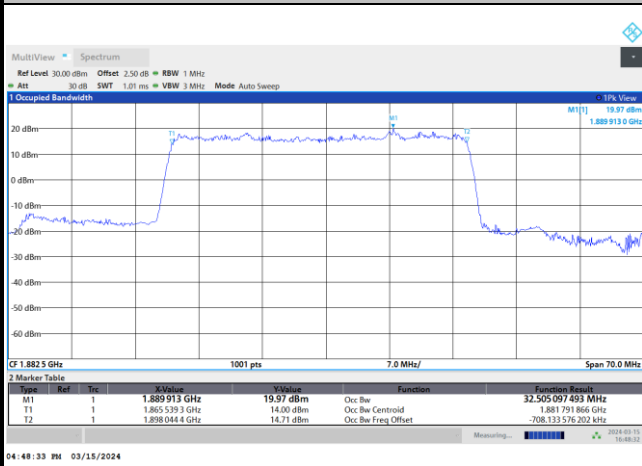


256QAM



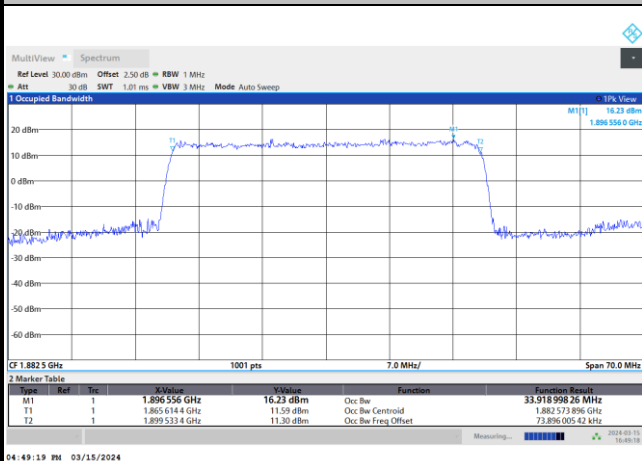
FR1 n25 / 35MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

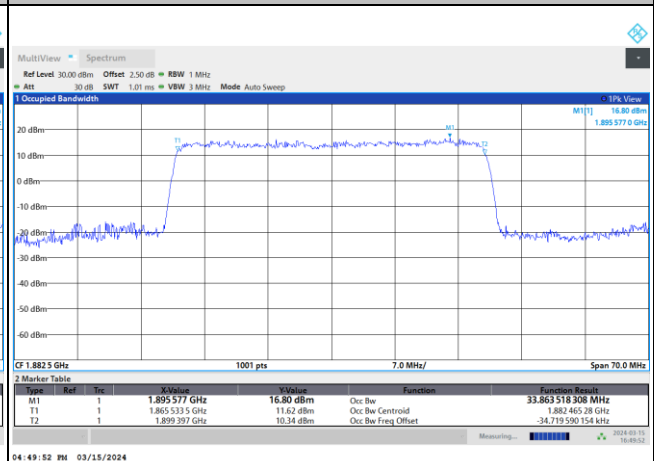


FR1 n25 / 35MHz / CP OFDM / Middle Channel / Full RB

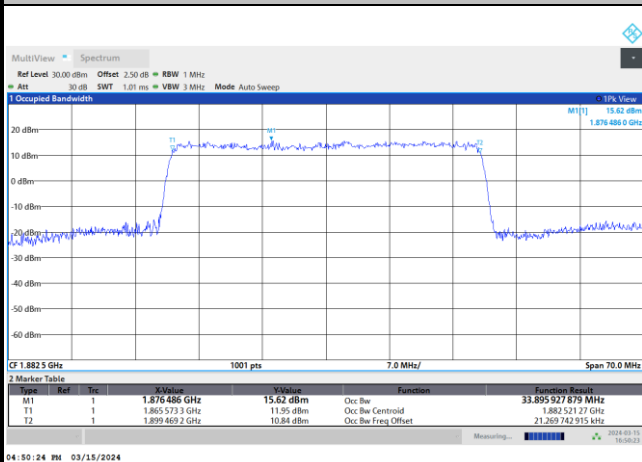
QPSK



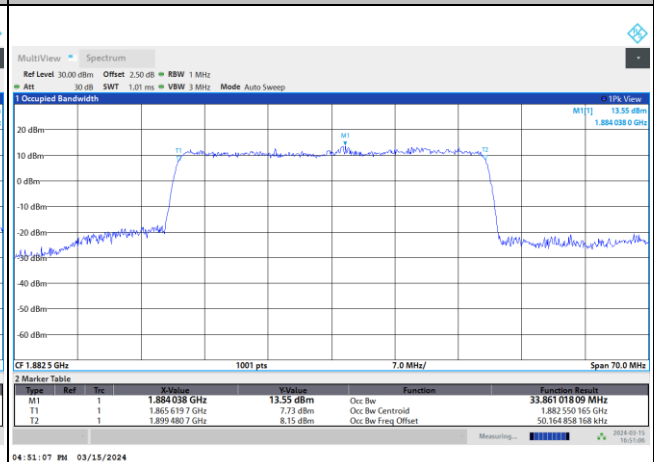
16QAM



64QAM



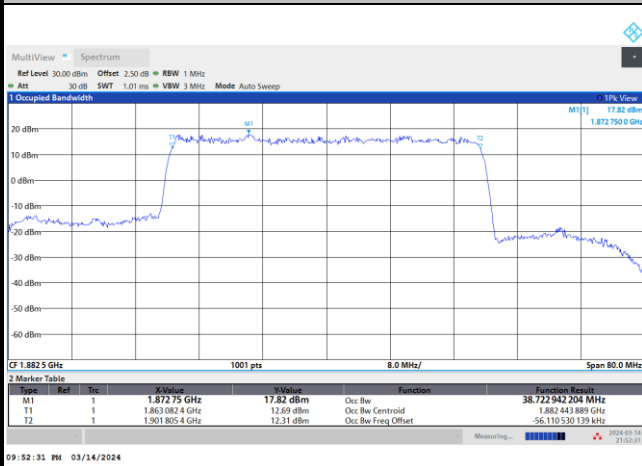
256QAM





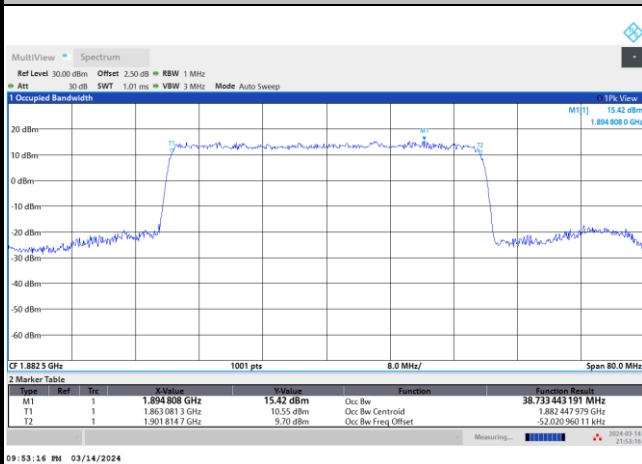
FR1 n25 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

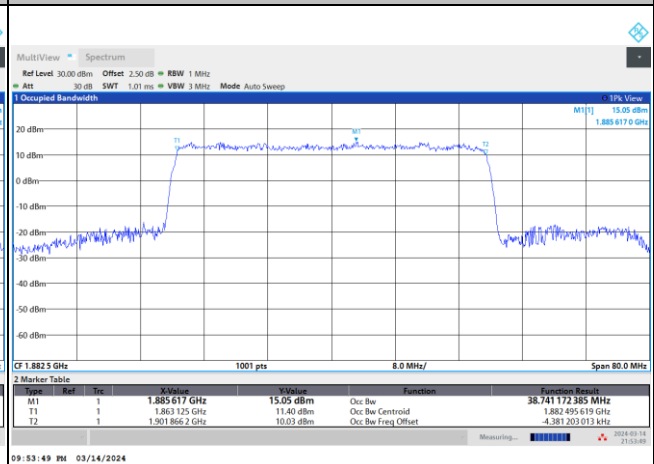


FR1 n25 / 40MHz / CP OFDM / Middle Channel / Full RB

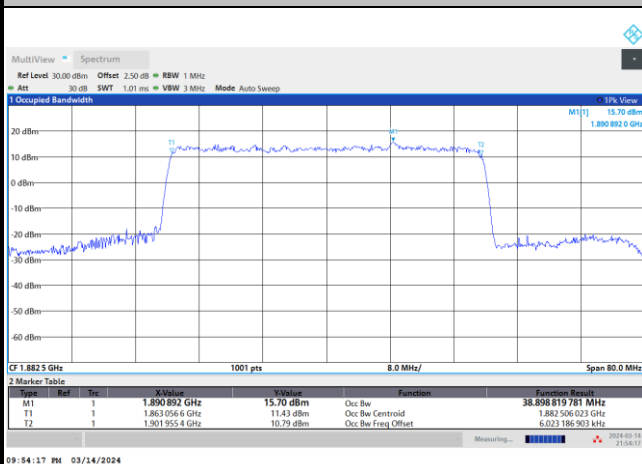
QPSK



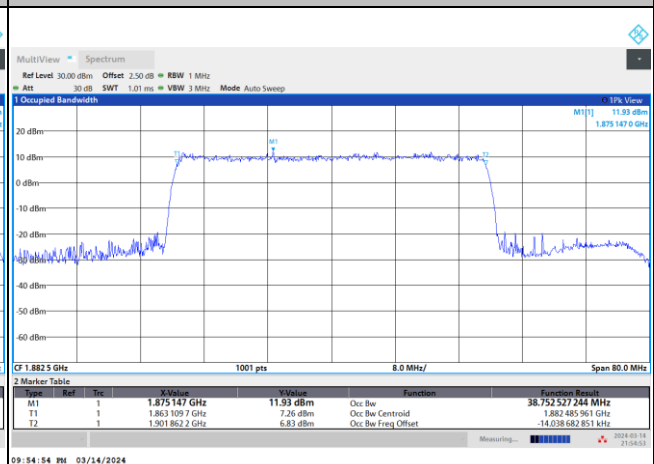
16QAM



64QAM



256QAM



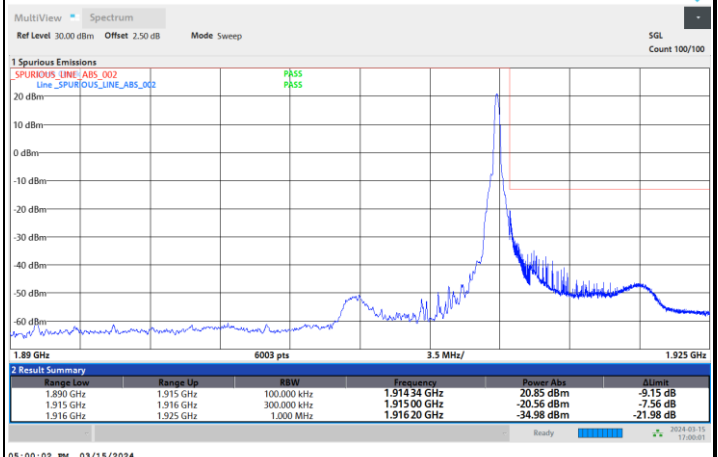
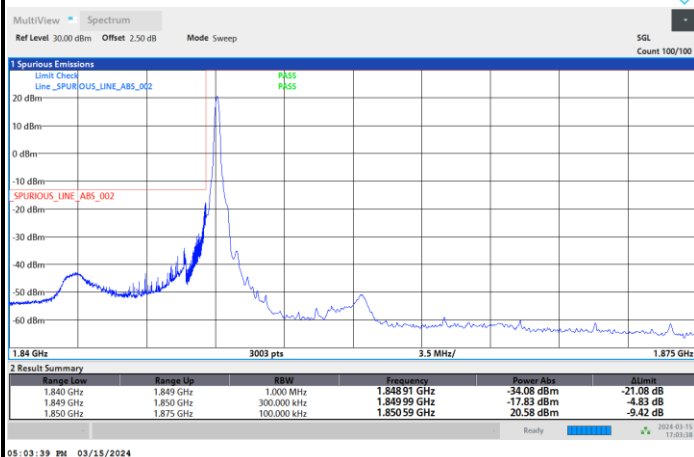


Conducted Band Edge

FR1 n25 / 25MHz / DFT-S OFDM / PI/2 BPSK

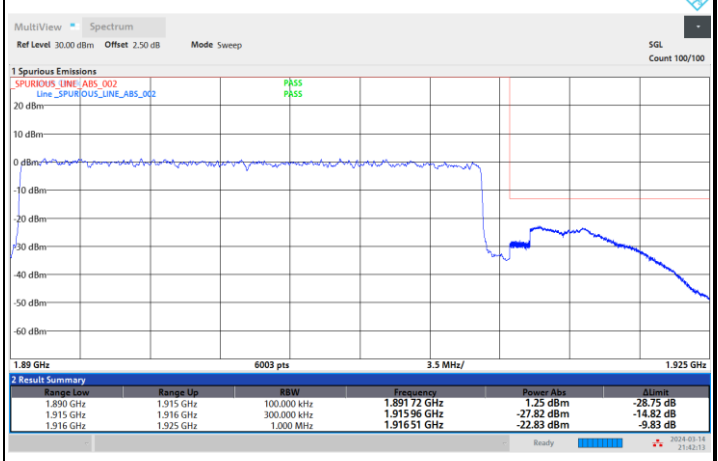
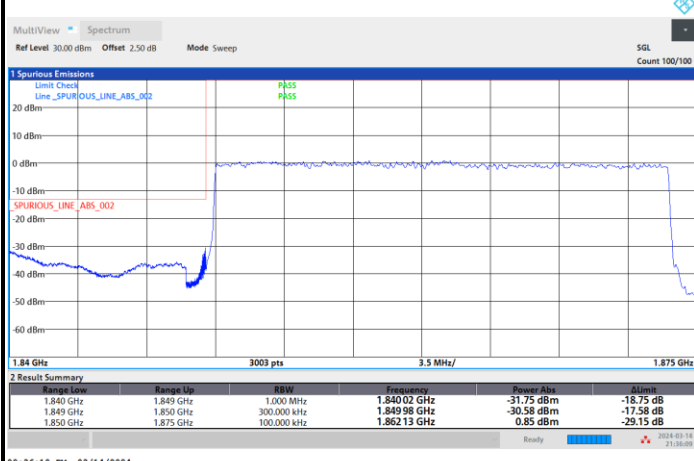
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

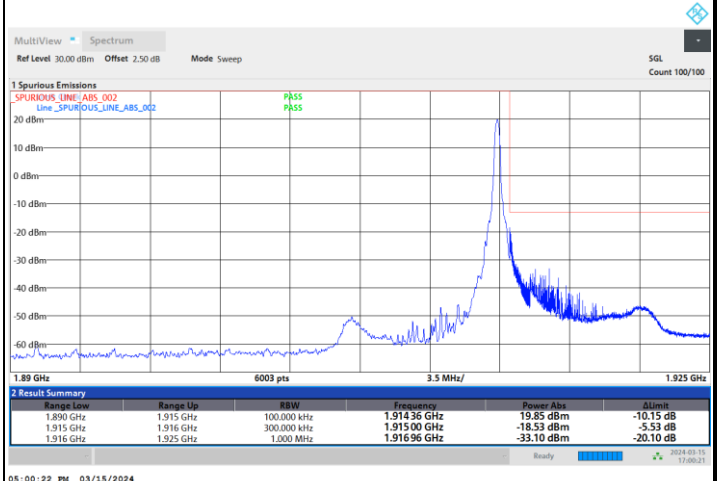
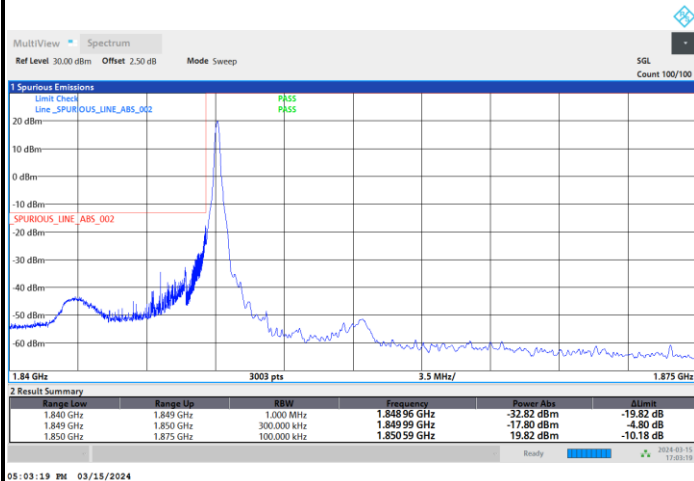




FR1 n25 / 25MHz / DFT-S OFDM / QPSK

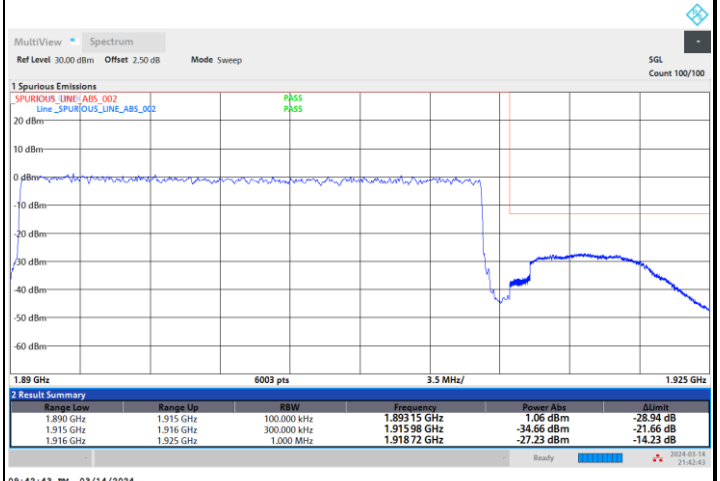
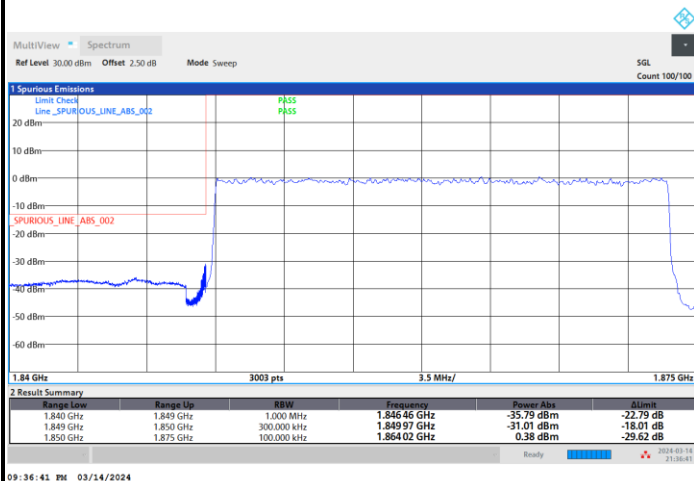
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

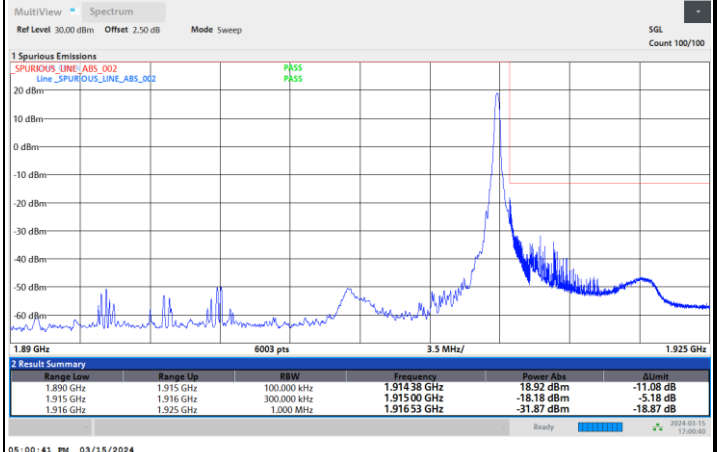
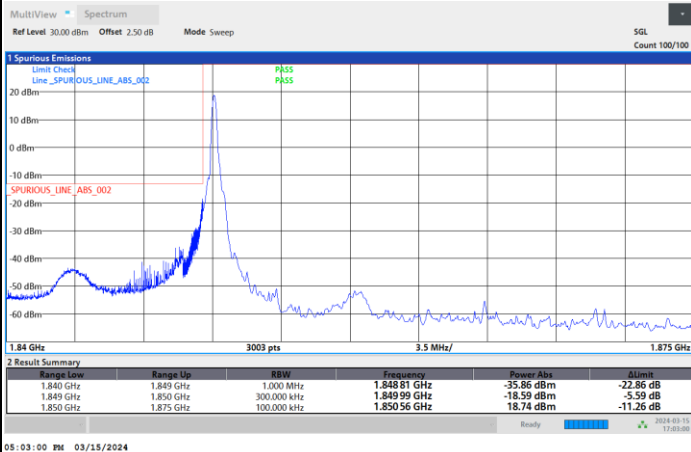




FR1 n25 / 25MHz / DFT-S OFDM / 16QAM

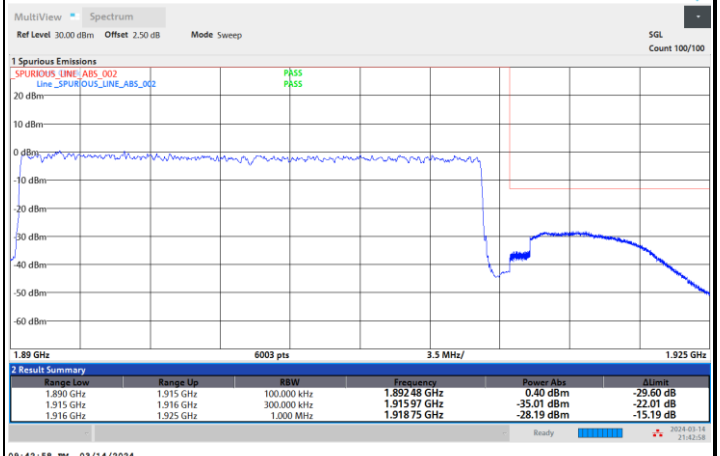
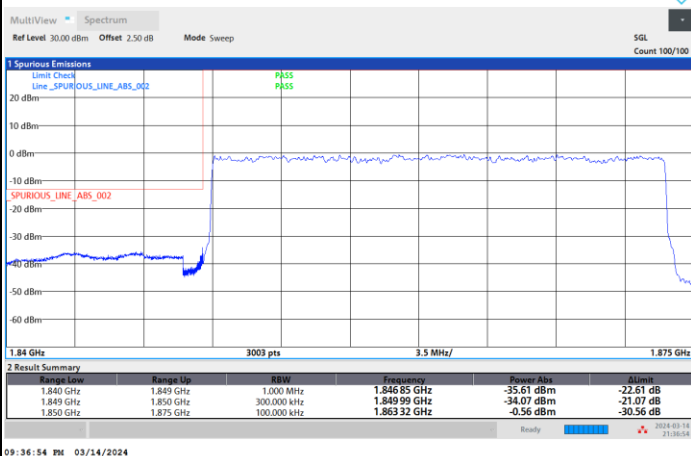
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

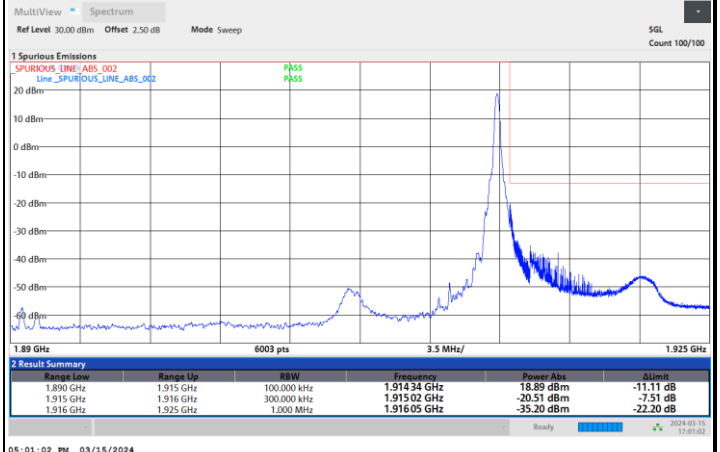
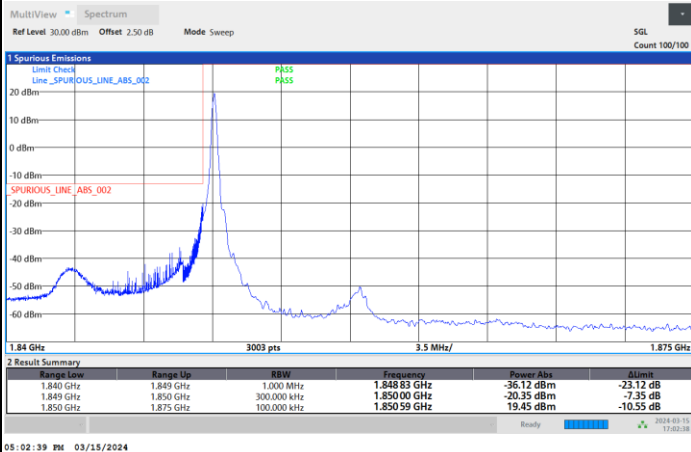




FR1 n25 / 25MHz / DFT-S OFDM / 64QAM

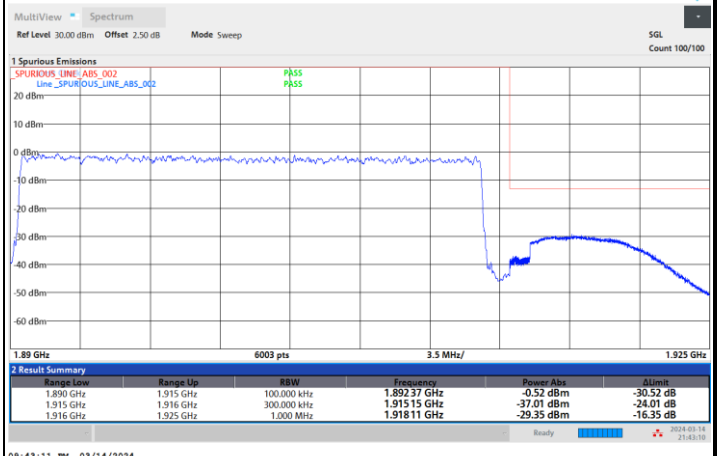
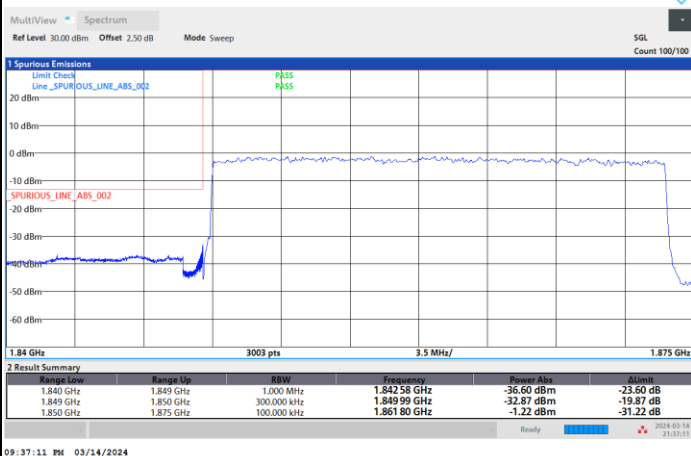
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

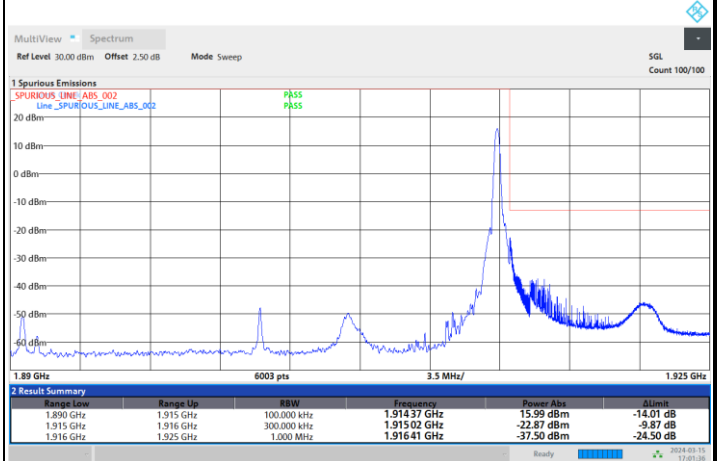
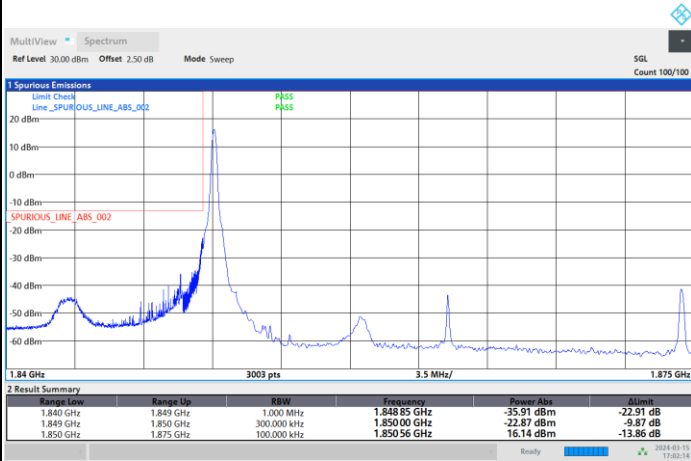




FR1 n25 / 25MHz / DFT-S OFDM / 256QAM

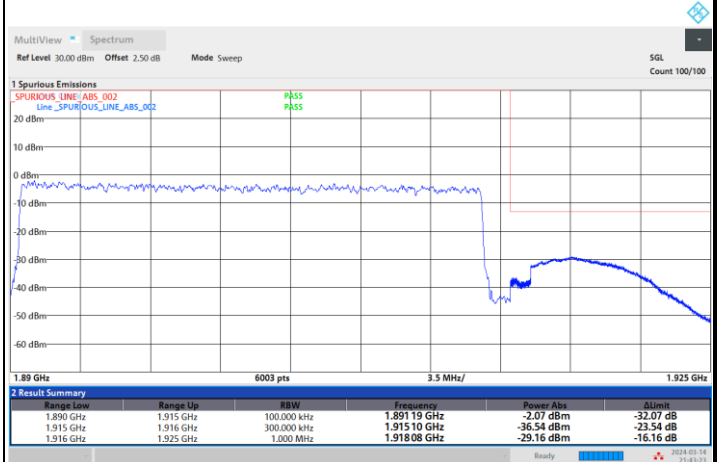
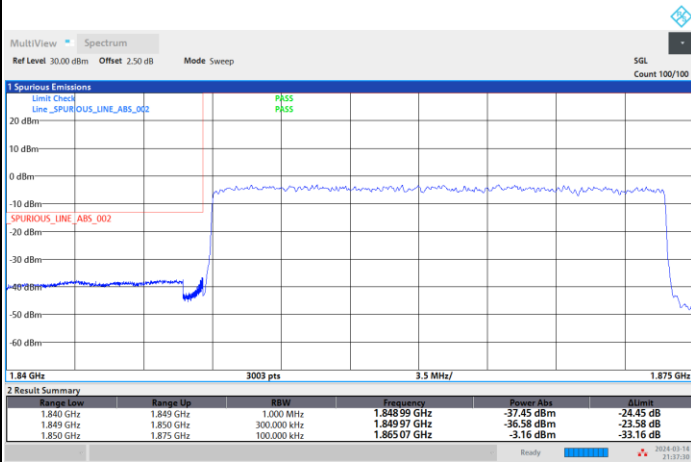
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

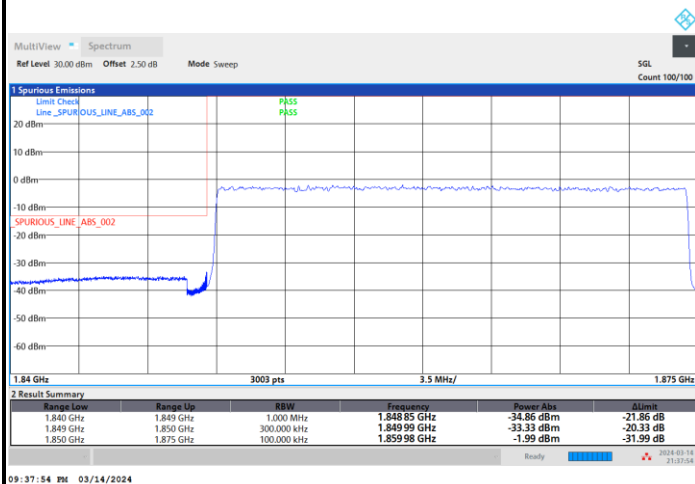
Highest Band Edge / Full RB



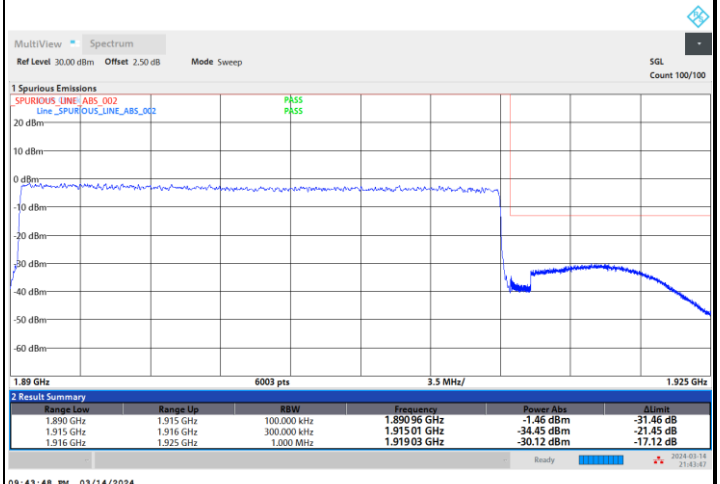


FR1 n25 / 25MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



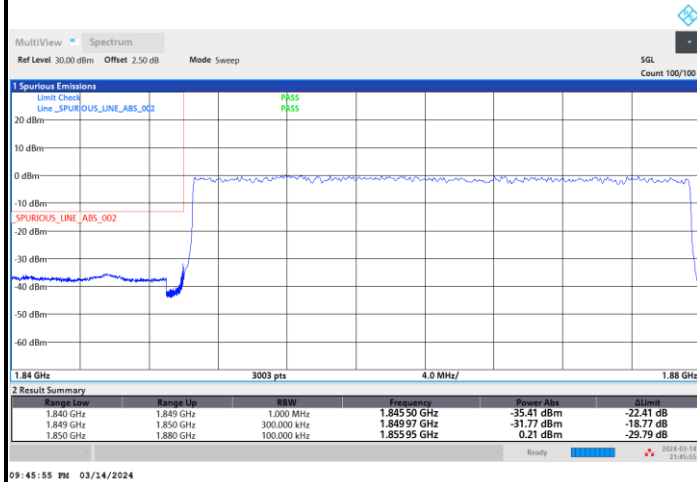
Highest Band Edge



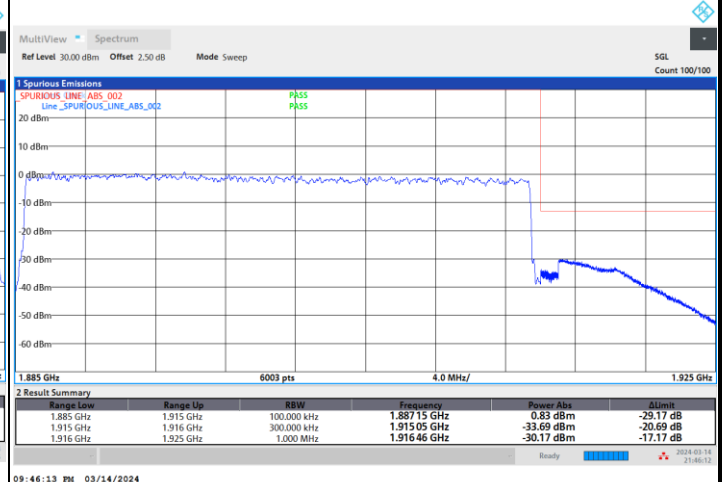


FR1 n25 / 30MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

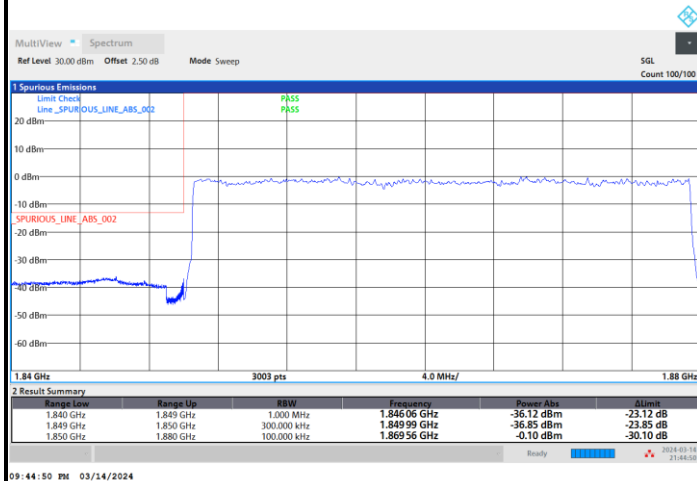


Highest Band Edge / Full RB

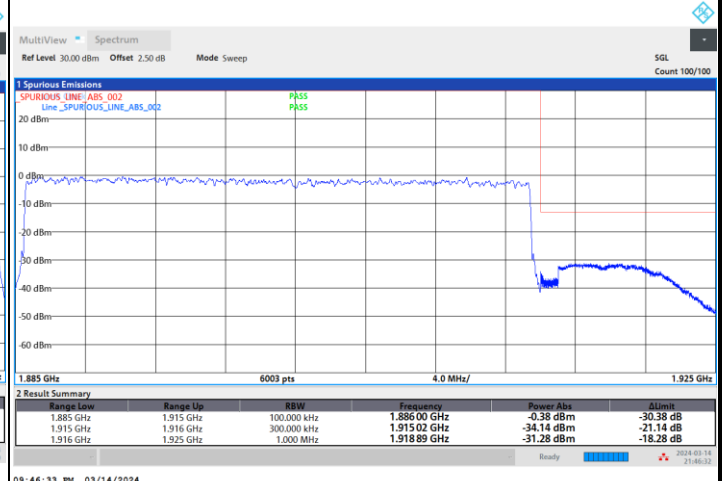


FR1 n25 / 30MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB



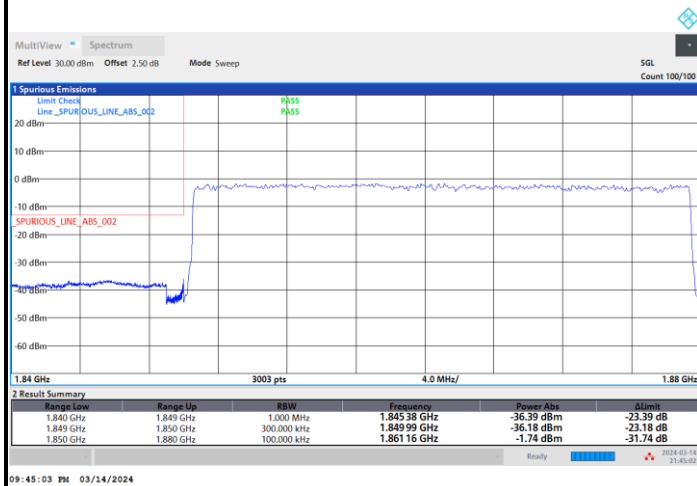
Highest Band Edge / Full RB



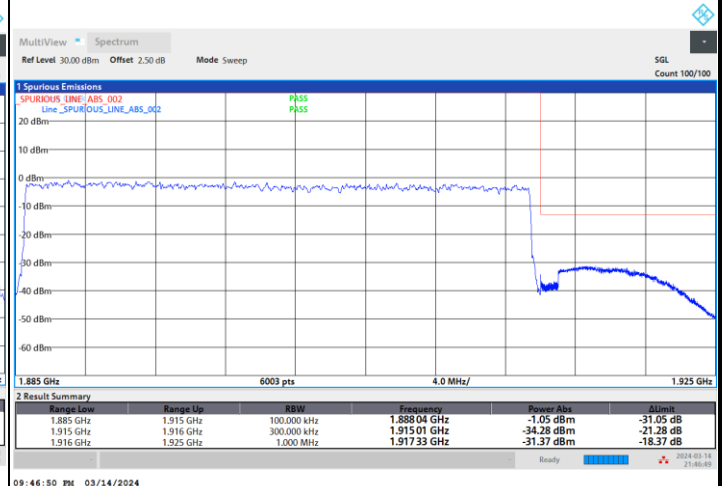


FR1 n25 / 30MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB

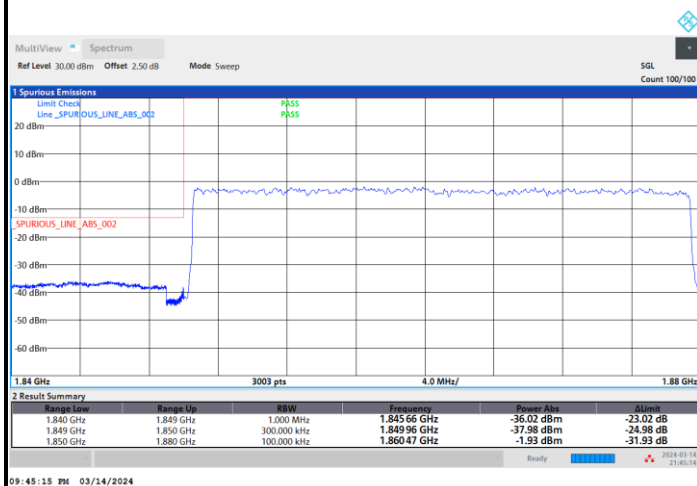


Highest Band Edge / Full RB

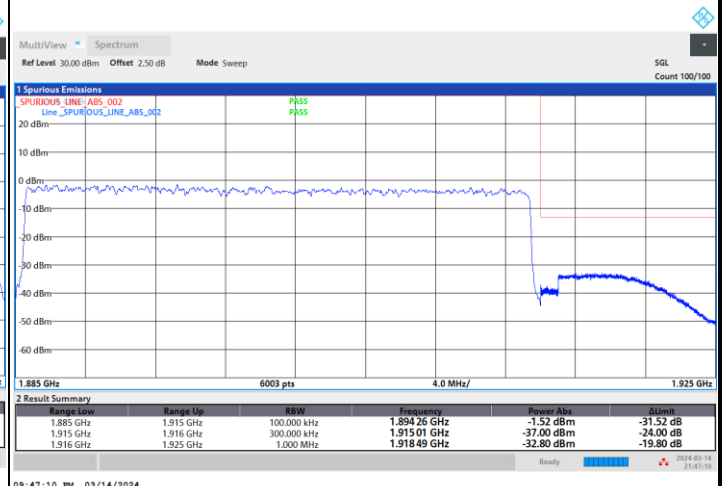


FR1 n25 / 30MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB



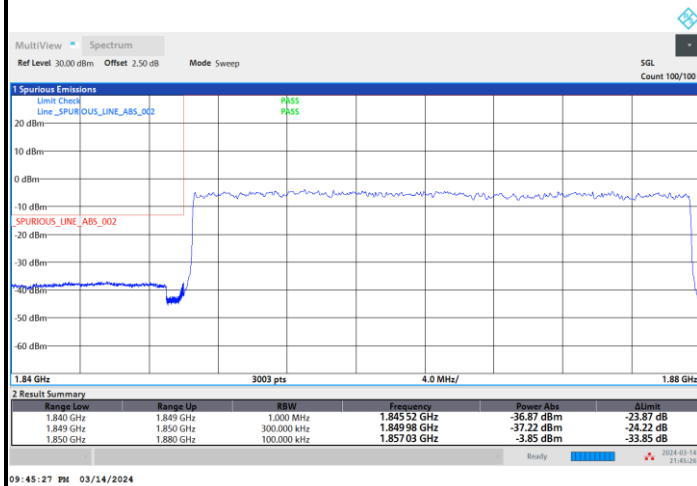
Highest Band Edge / Full RB



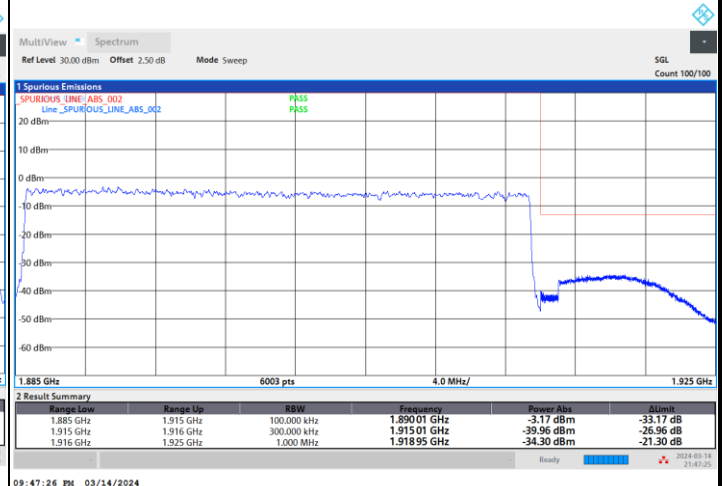


FR1 n25 / 30MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB

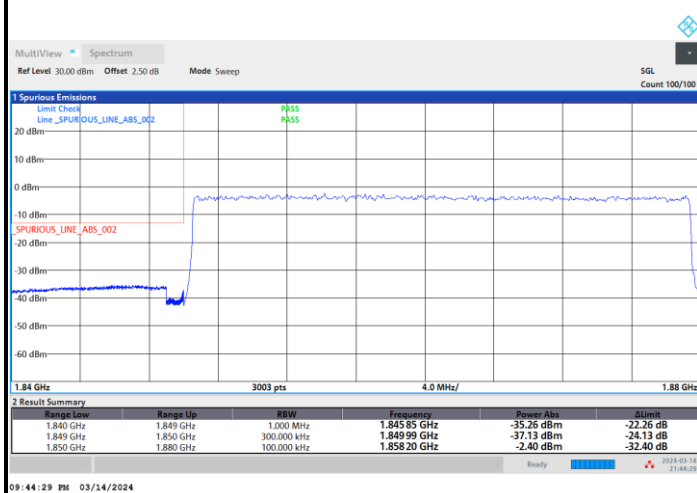


Highest Band Edge / Full RB



FR1 n25 / 30MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Highest Band Edge

