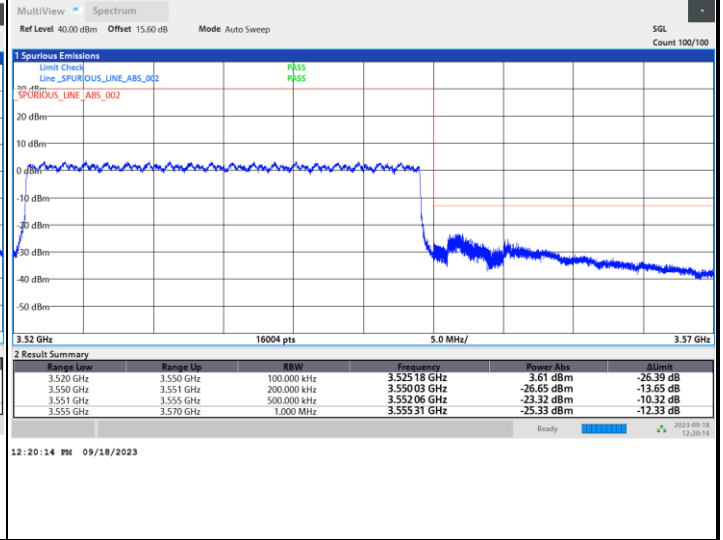
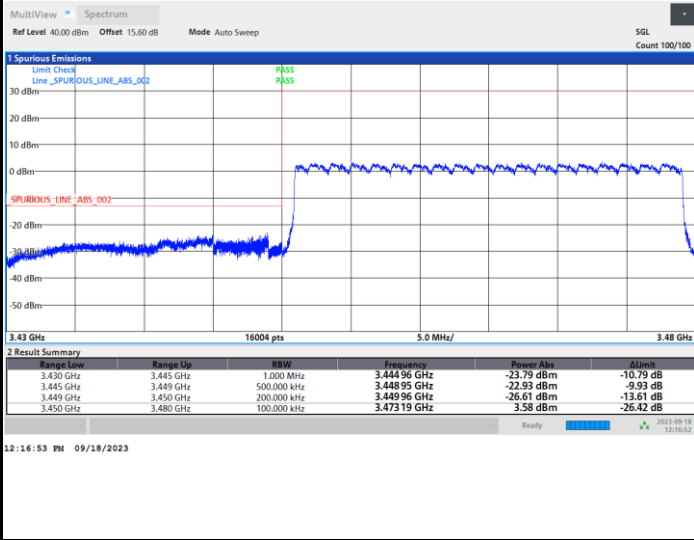




5G-FR1 SA UL MIMO n77 (PC1.5) / 30MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

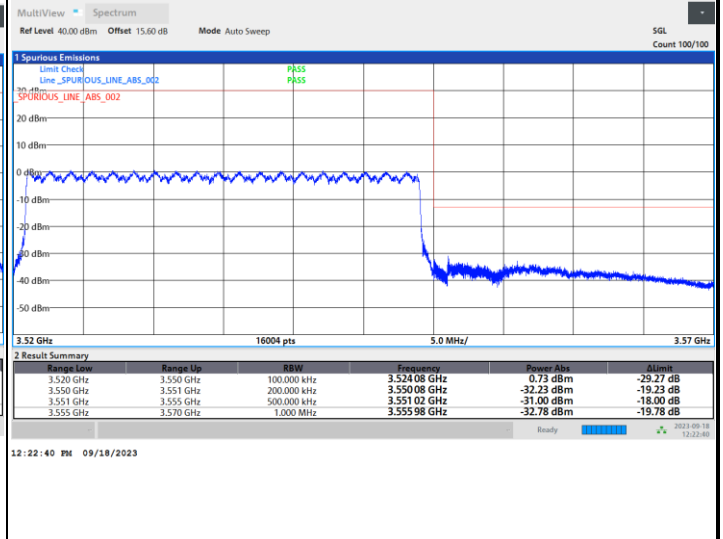
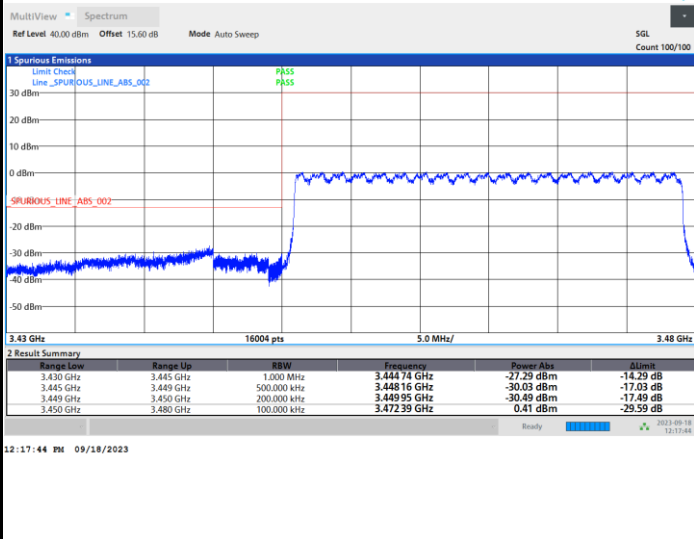
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 30MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

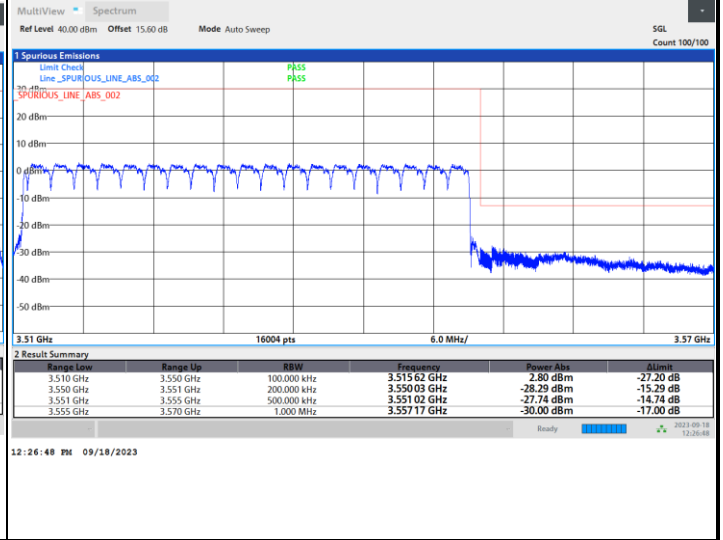
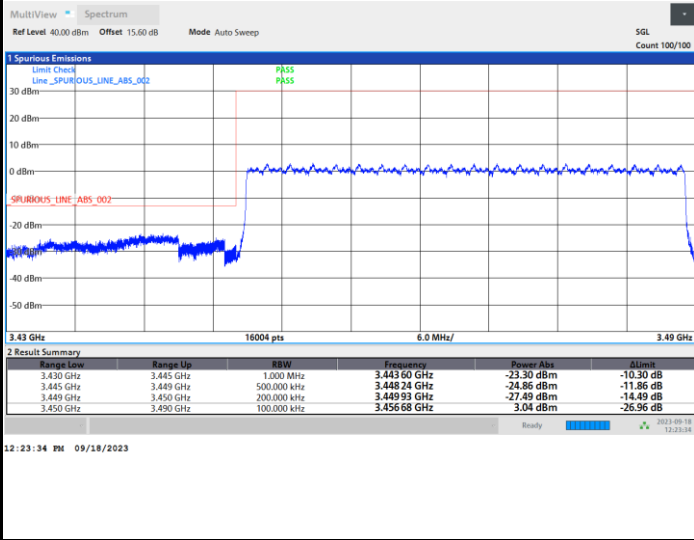




5G-FR1 SA UL MIMO n77 (PC1.5) / 40MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

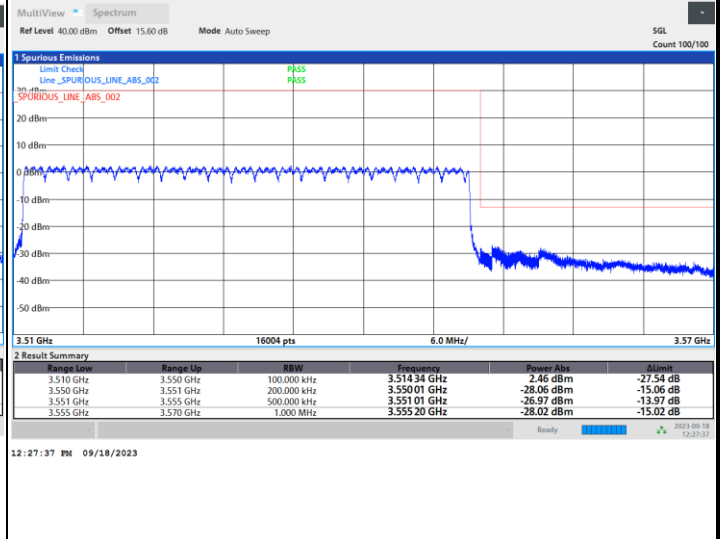
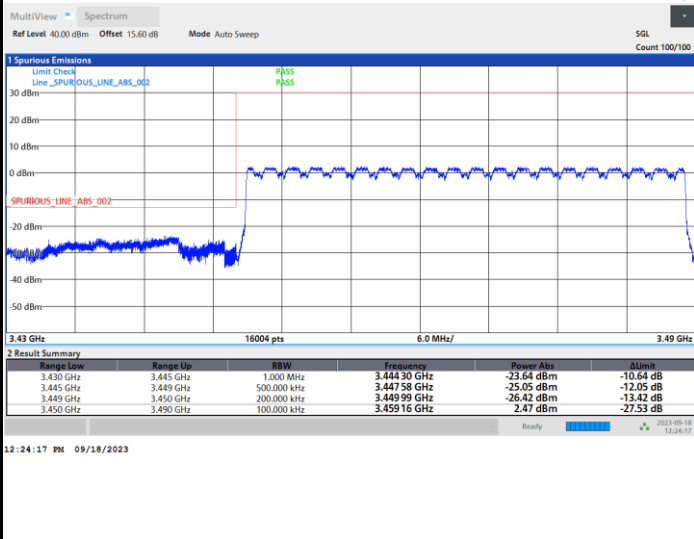
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 40MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

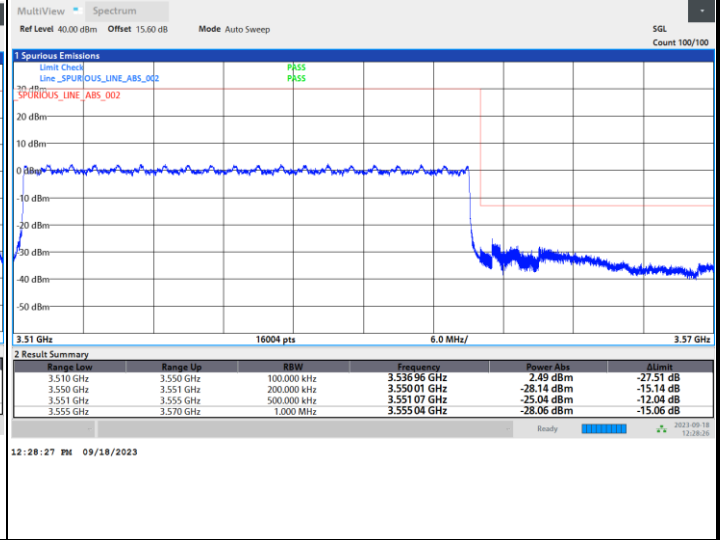
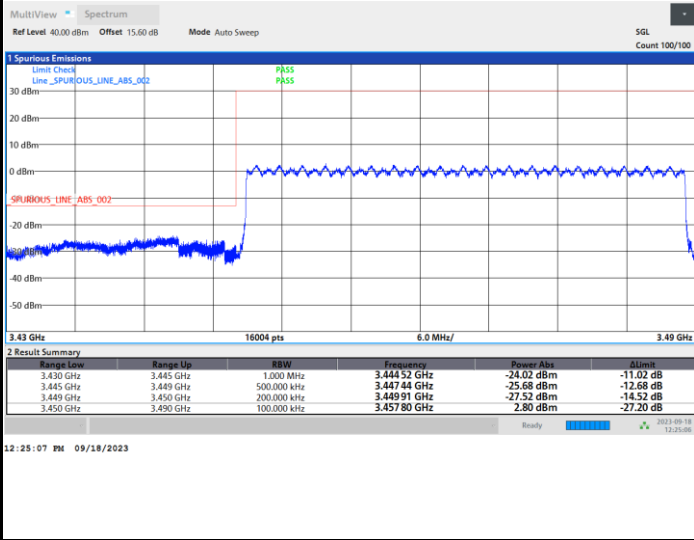




5G-FR1 SA UL MIMO n77 (PC1.5) / 40MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

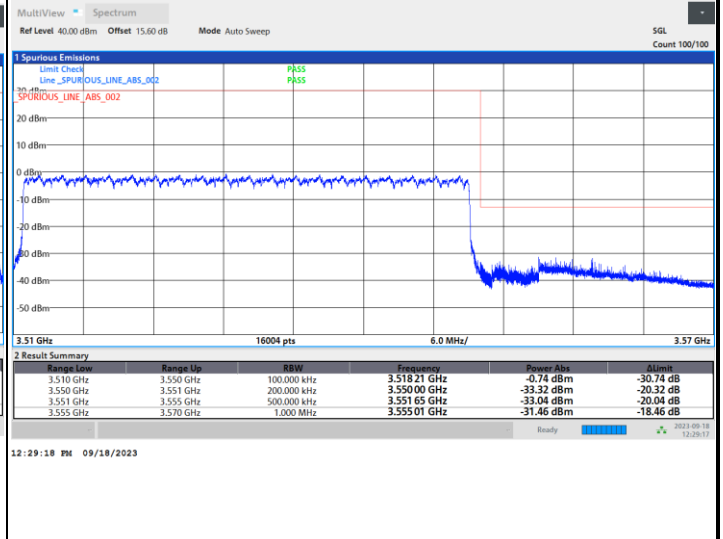
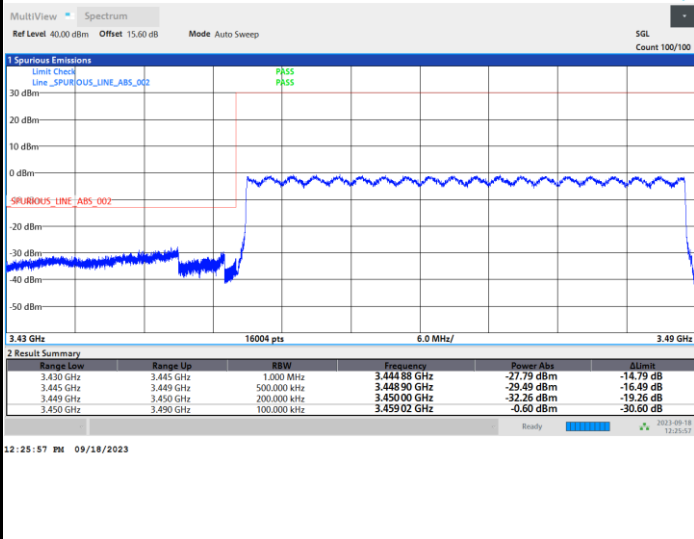
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 40MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

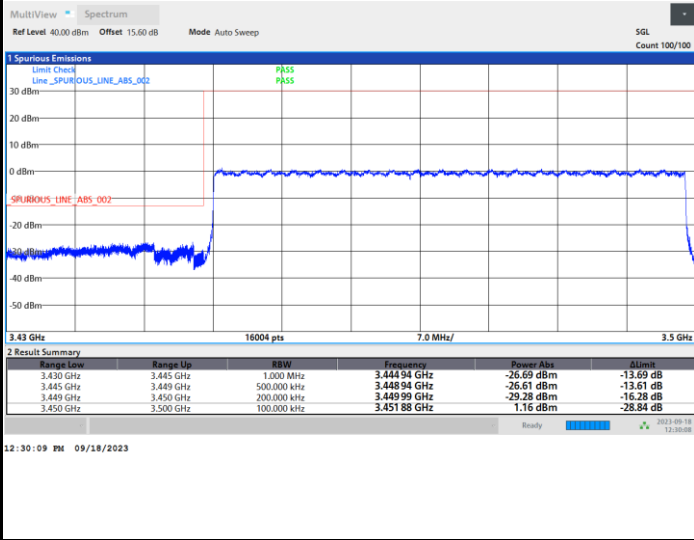




5G-FR1 SA UL MIMO n77 (PC1.5) / 50MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

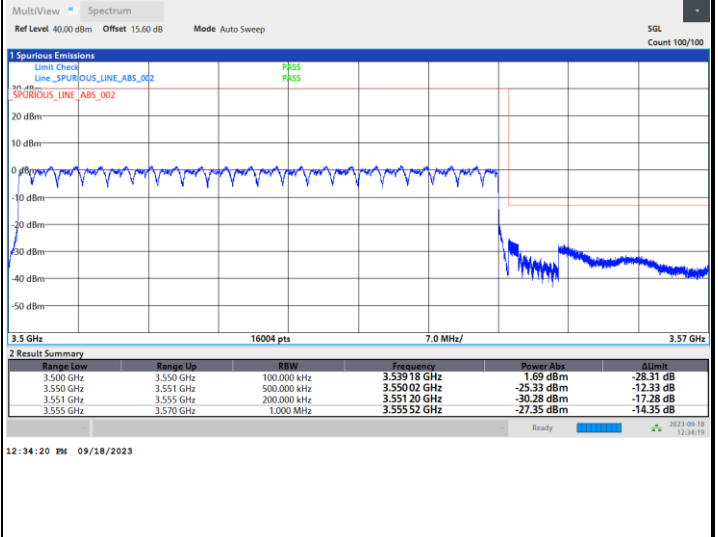
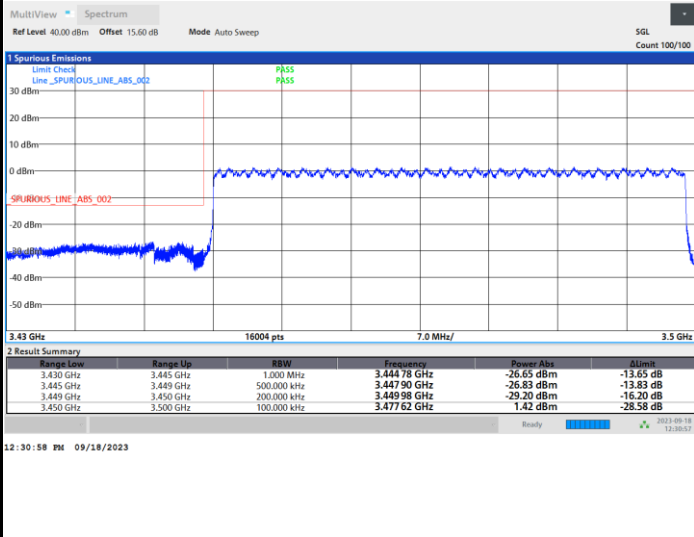
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 50MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

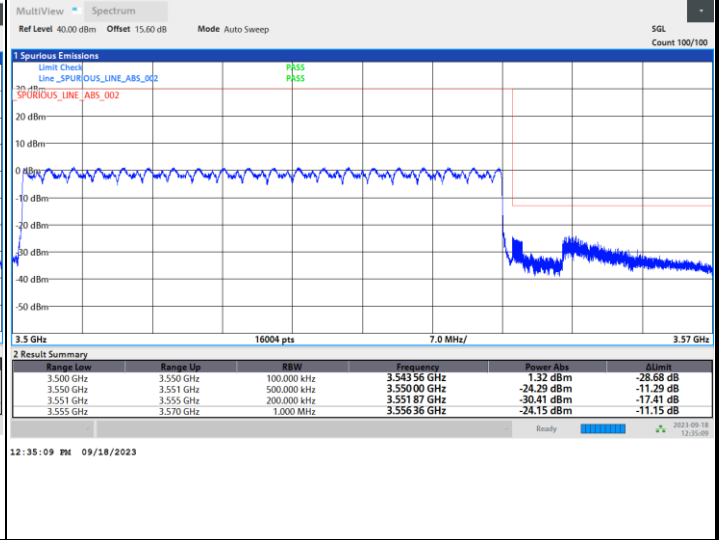
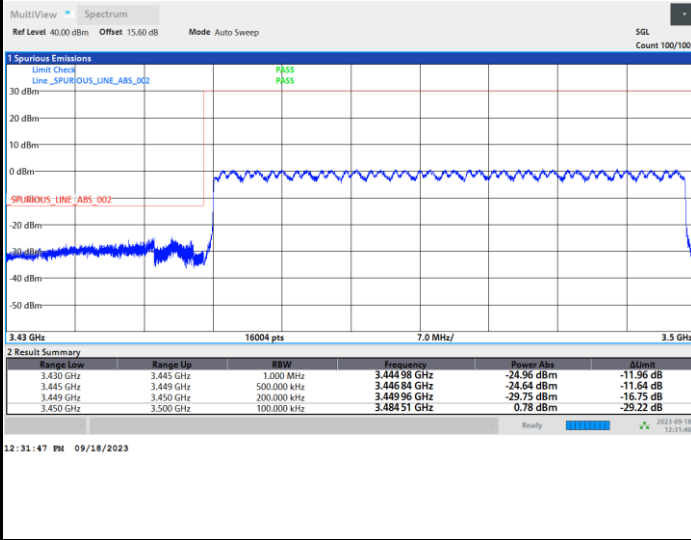




5G-FR1 SA UL MIMO n77 (PC1.5) / 50MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

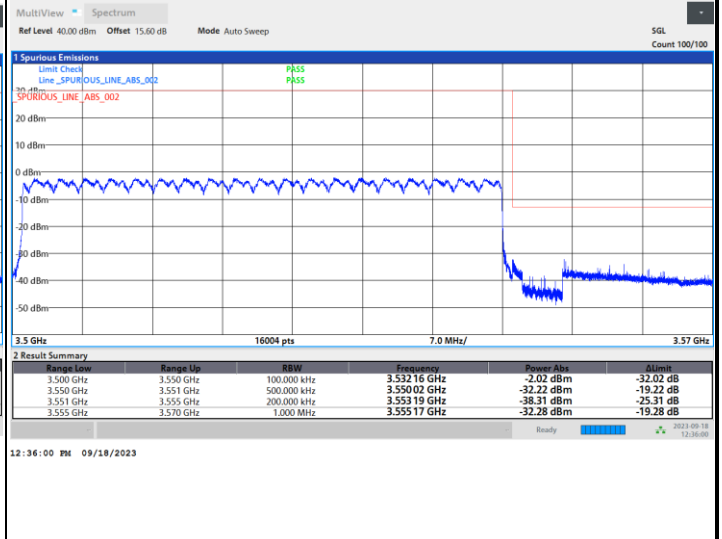
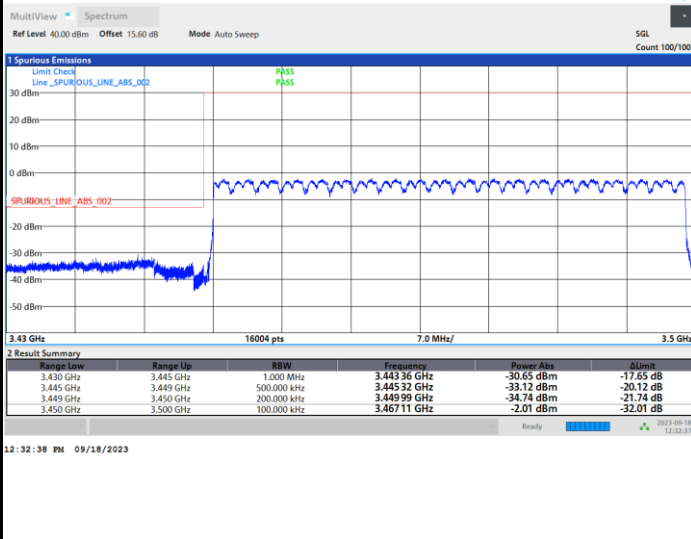
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 50MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

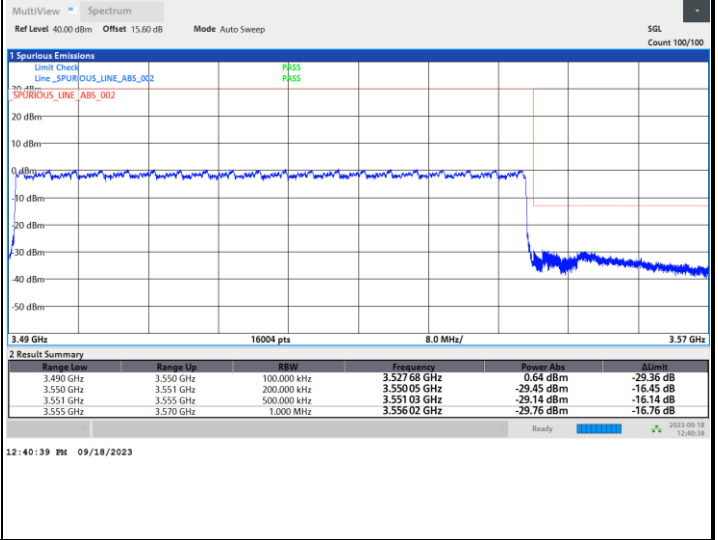
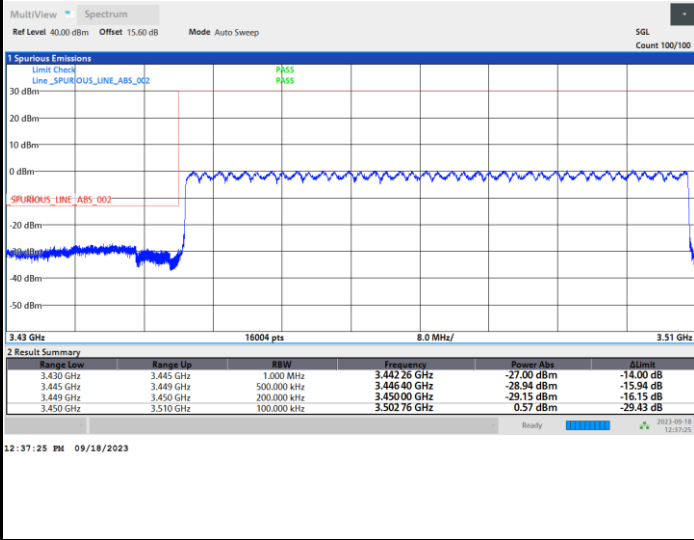




5G-FR1 SA UL MIMO n77 (PC1.5) / 60MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

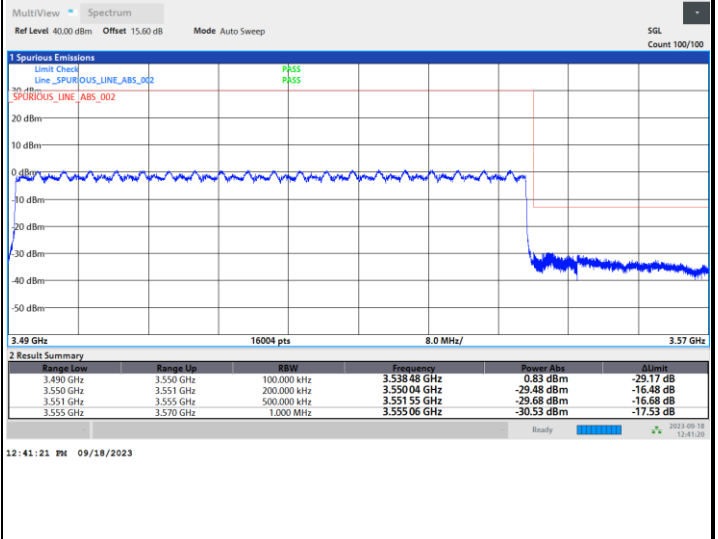
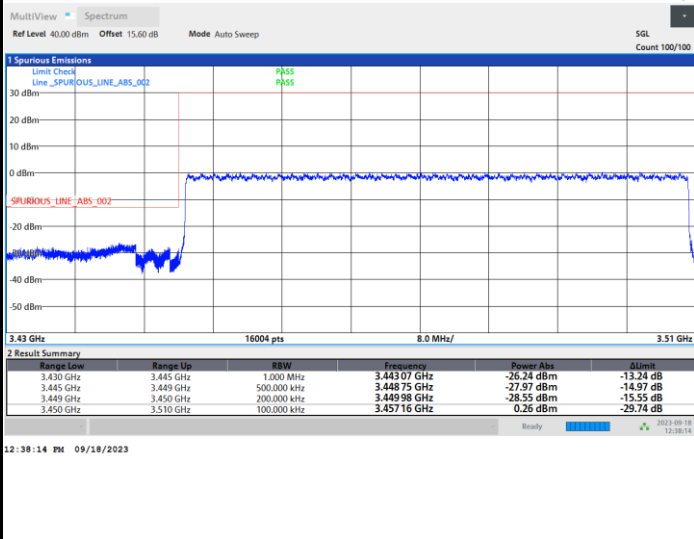
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 60MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

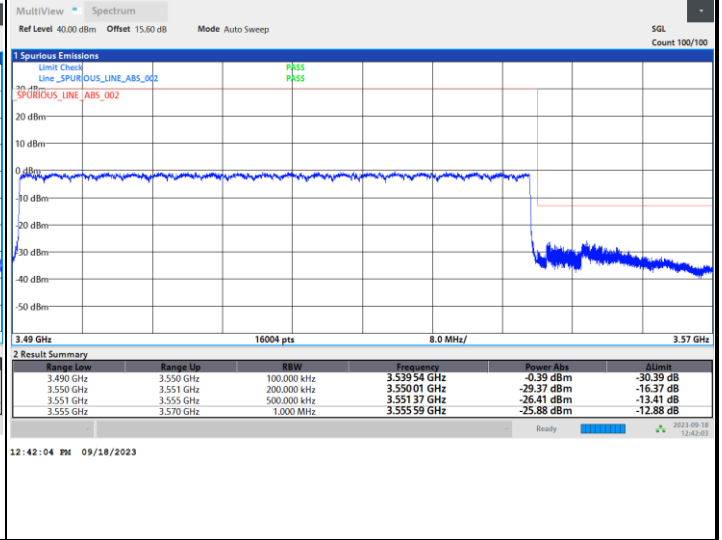
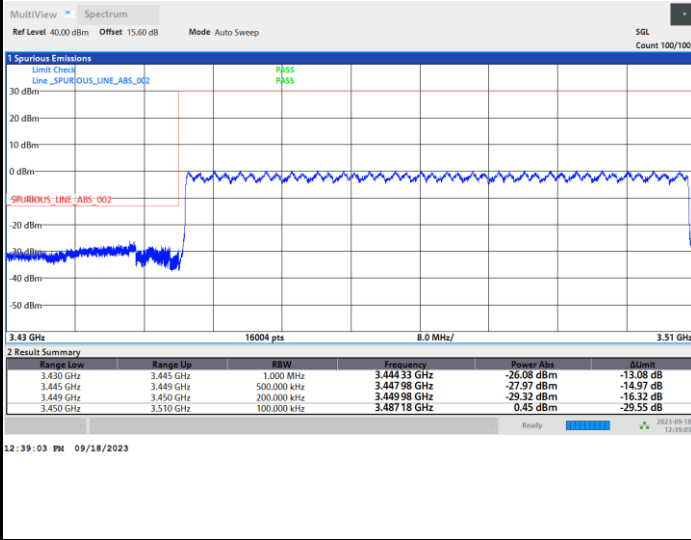




5G-FR1 SA UL MIMO n77 (PC1.5) / 60MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

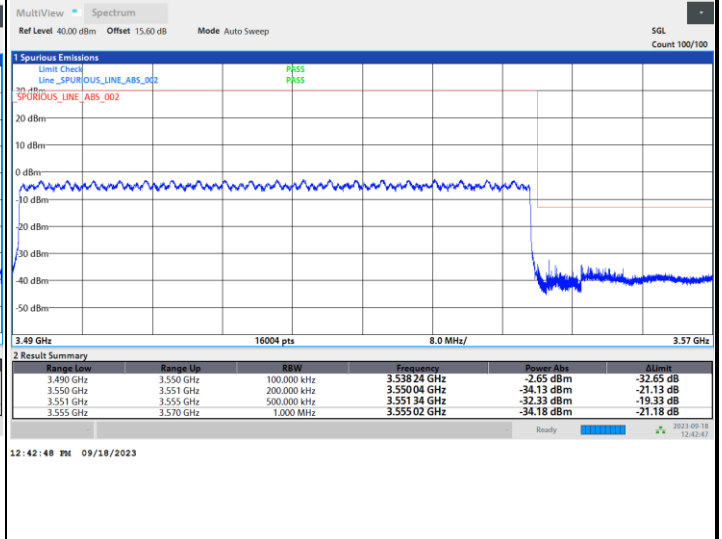
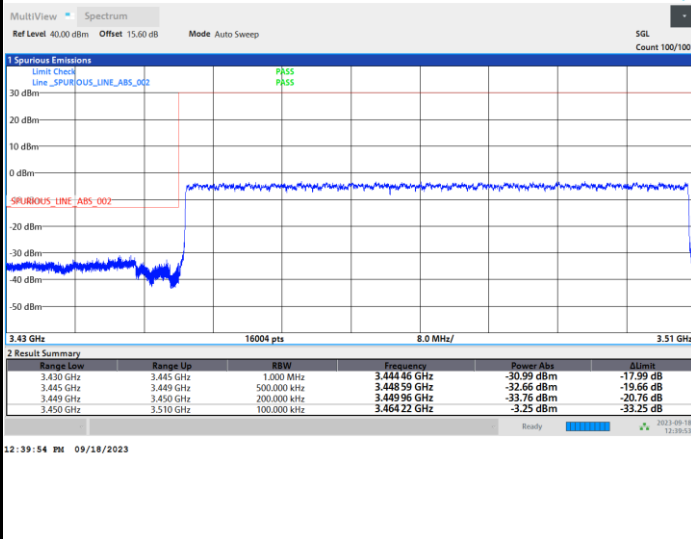
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 60MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

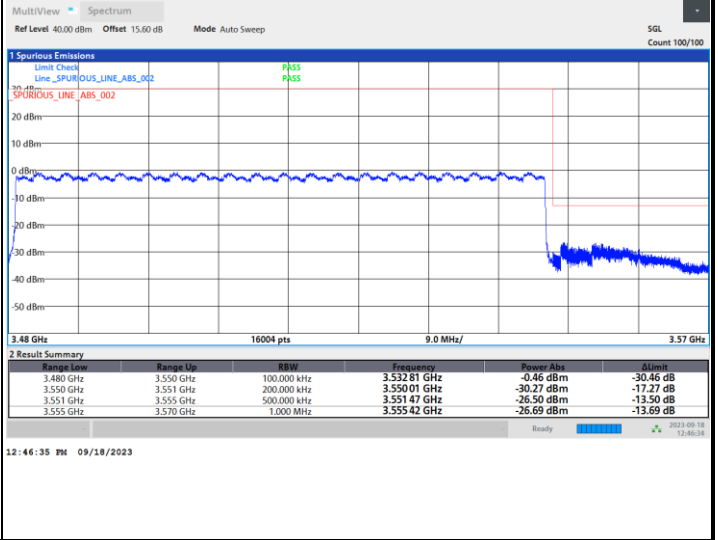
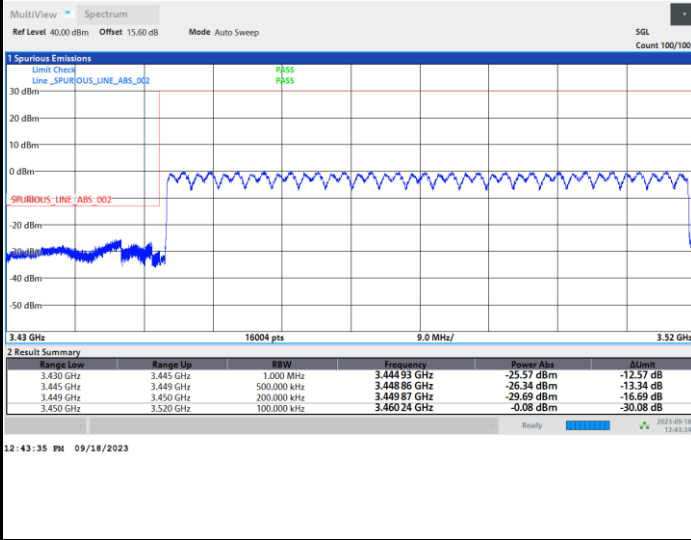




5G-FR1 SA UL MIMO n77 (PC1.5) / 70MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

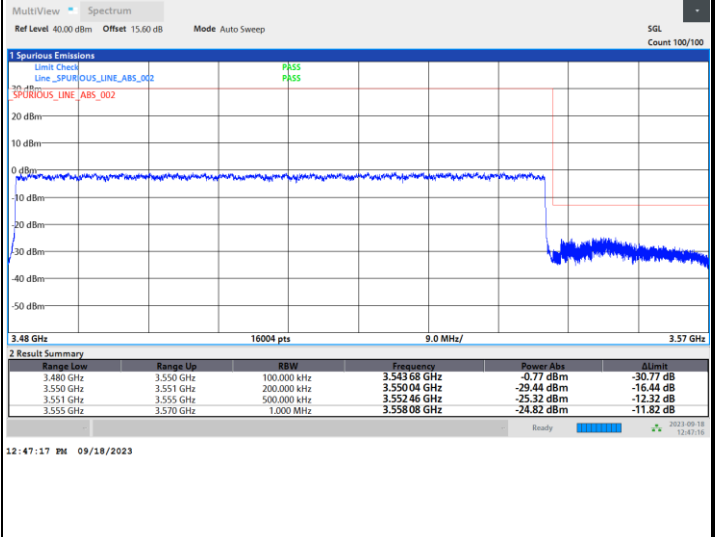
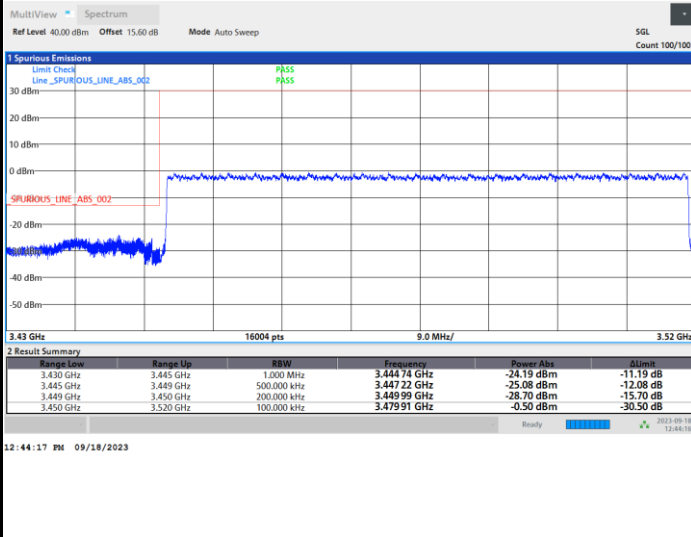
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 70MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

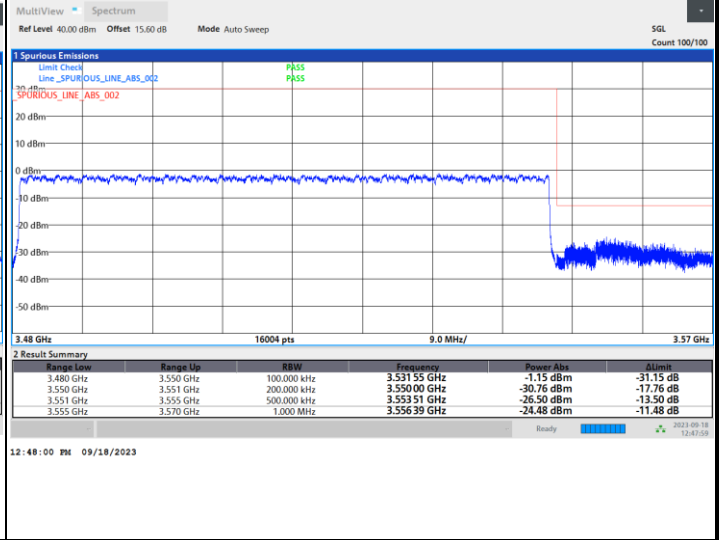
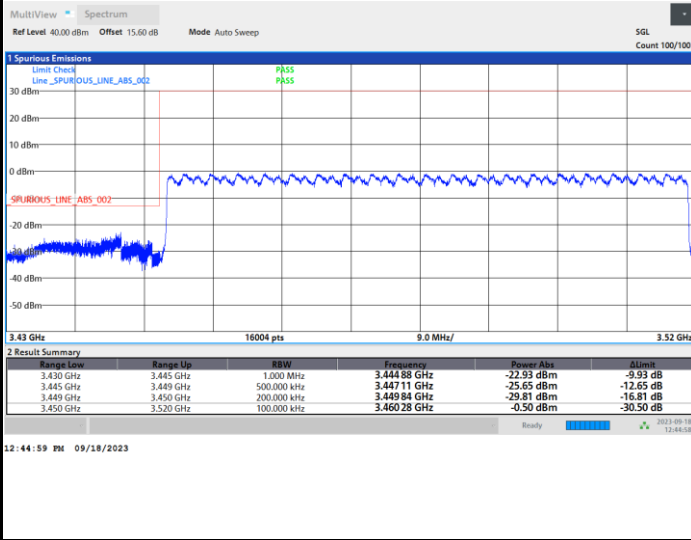




5G-FR1 SA UL MIMO n77 (PC1.5) / 70MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

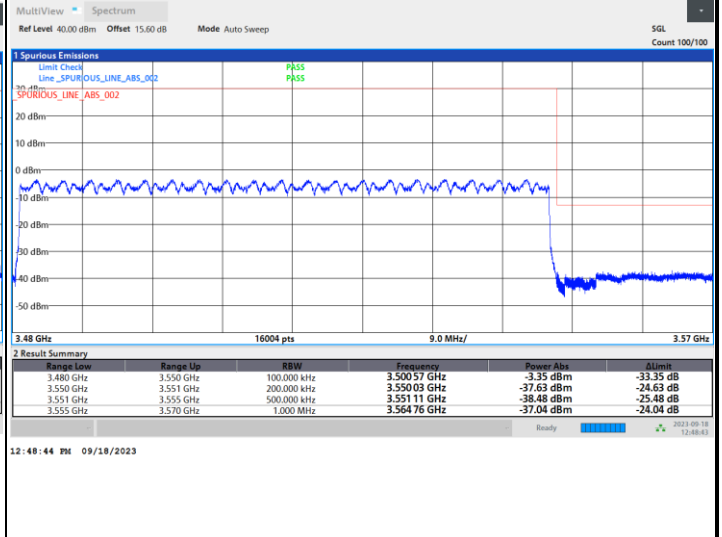
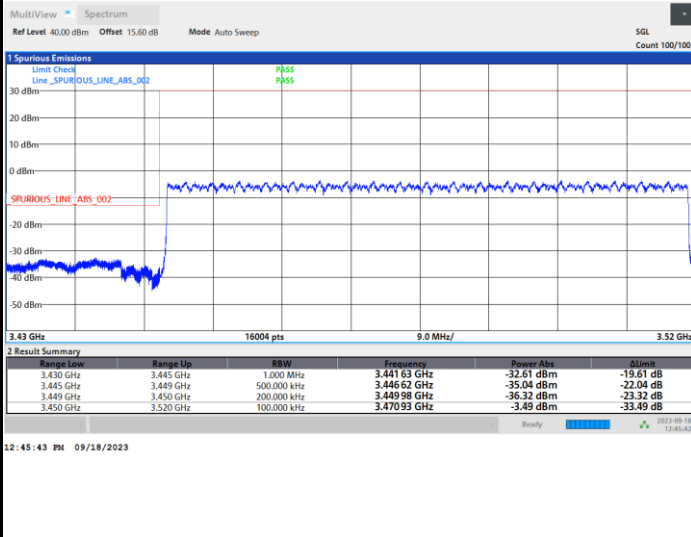
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 70MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

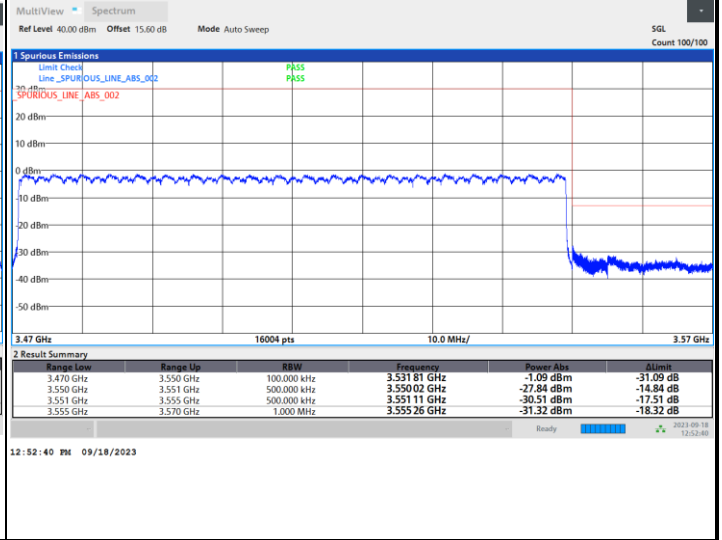
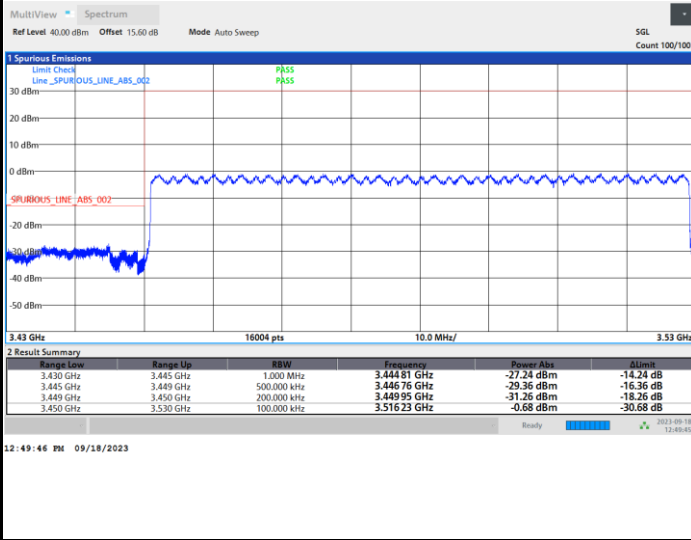




5G-FR1 SA UL MIMO n77 (PC1.5) / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

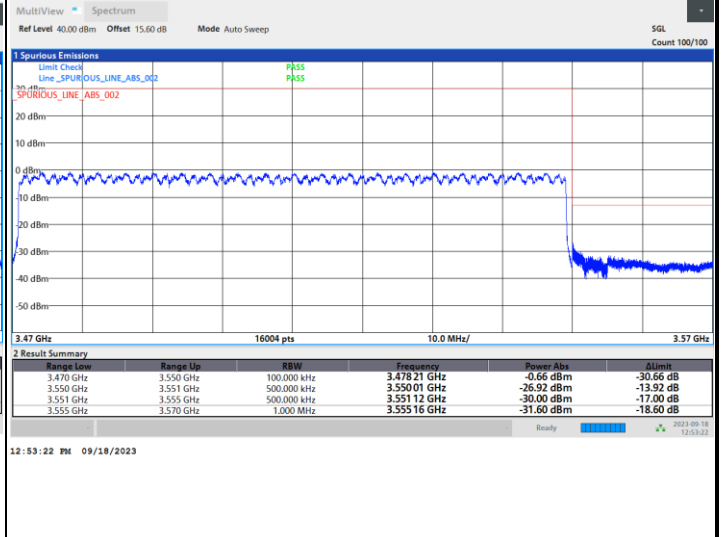
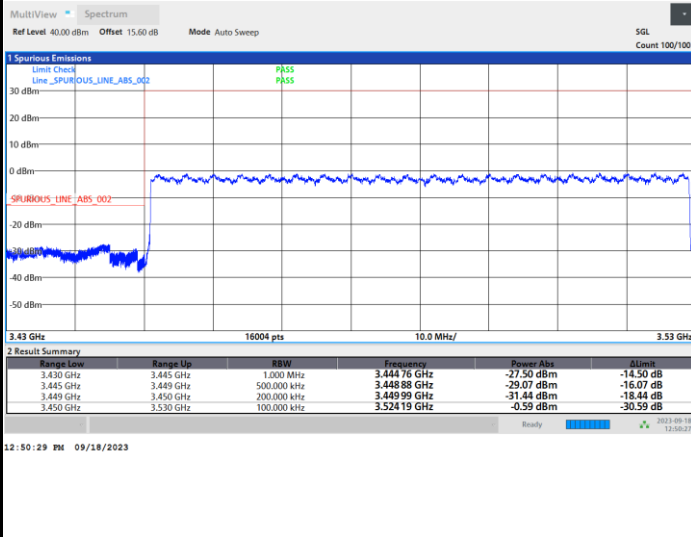
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

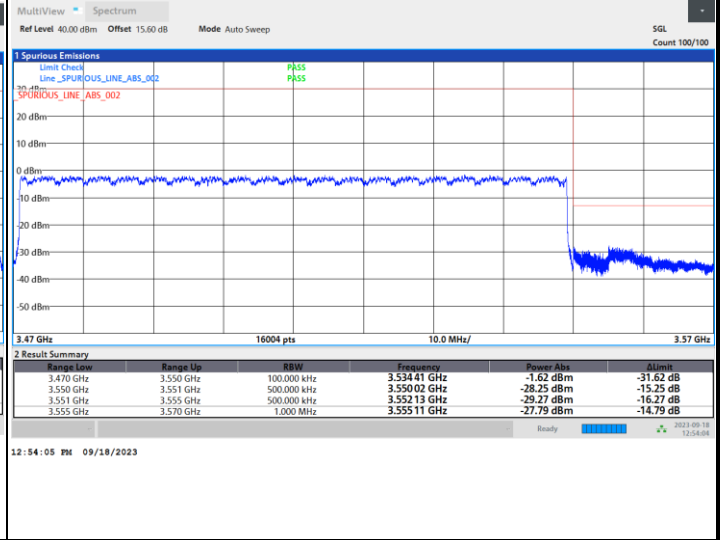
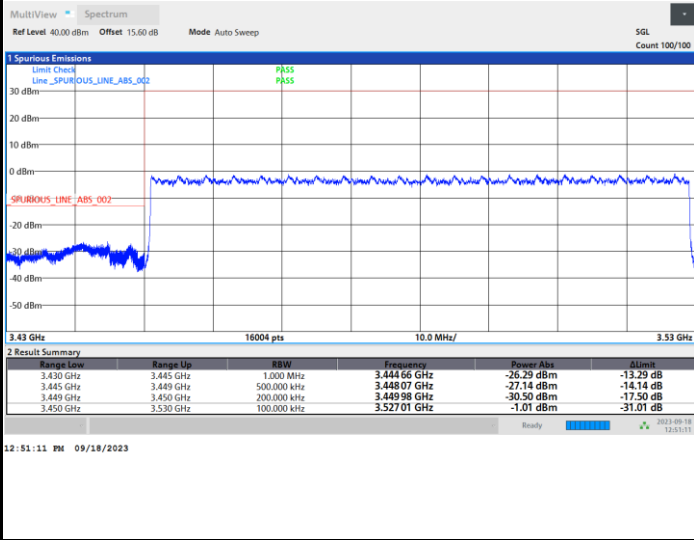




5G-FR1 SA UL MIMO n77 (PC1.5) / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

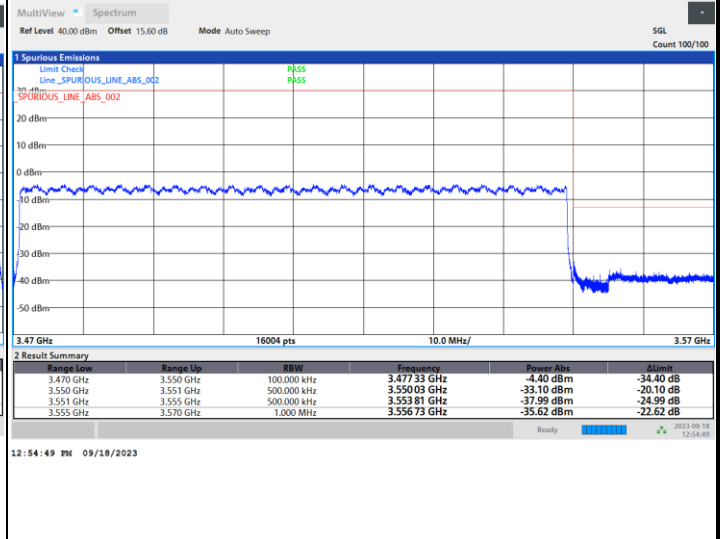
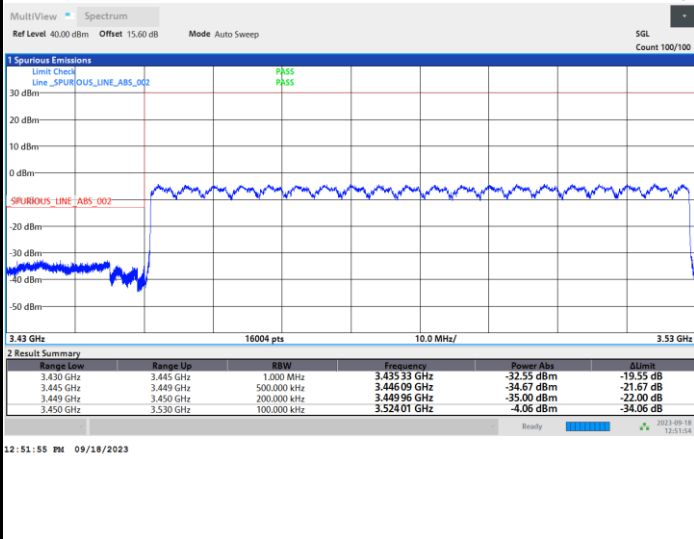
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

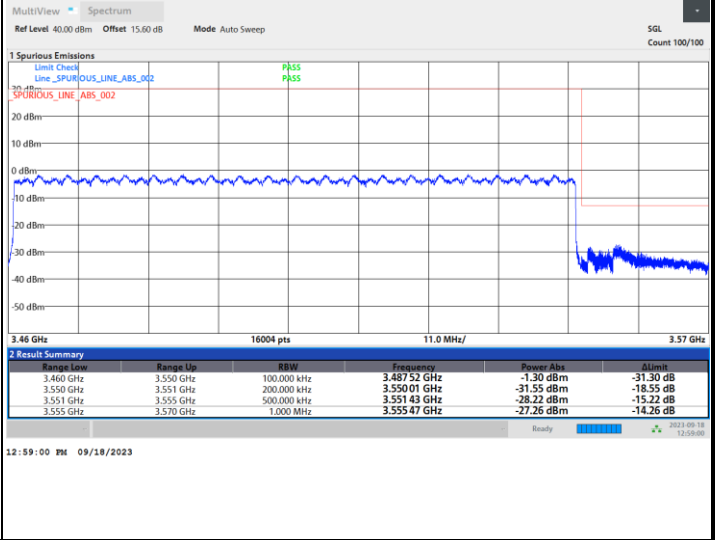
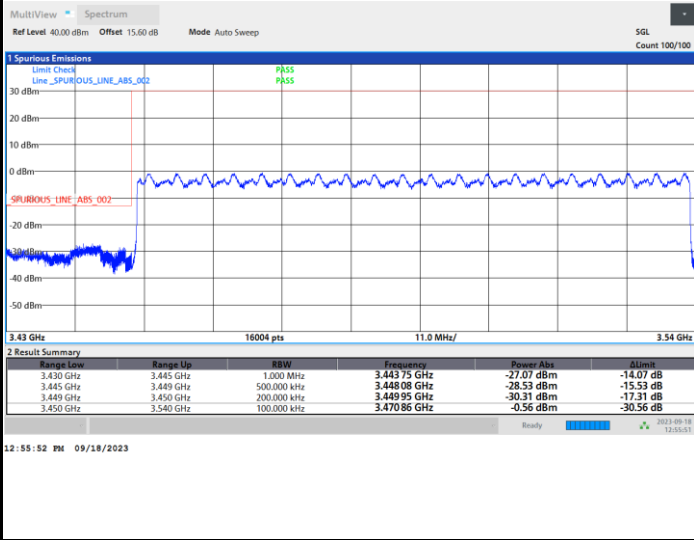




5G-FR1 SA UL MIMO n77 (PC1.5) / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

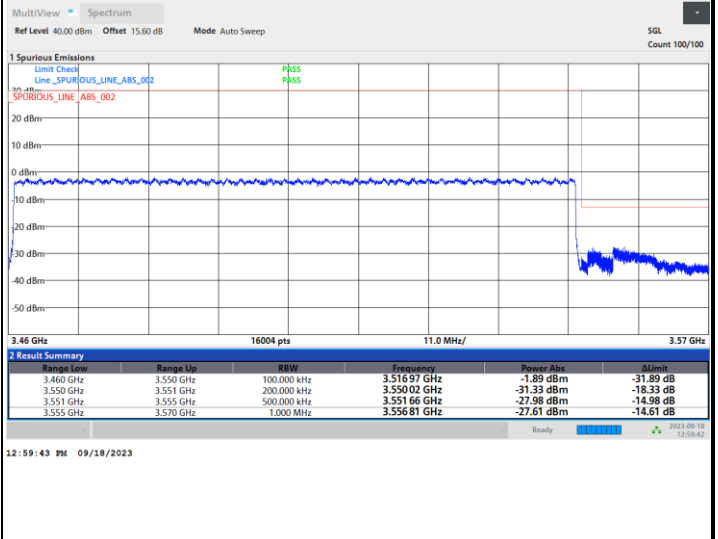
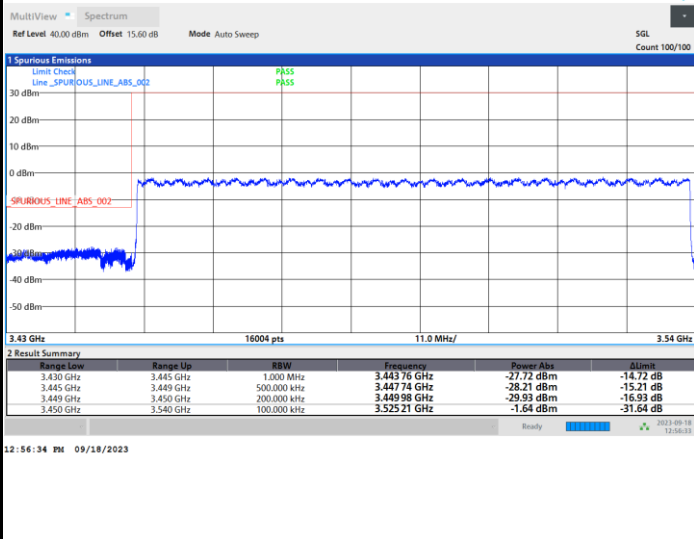
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 90MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

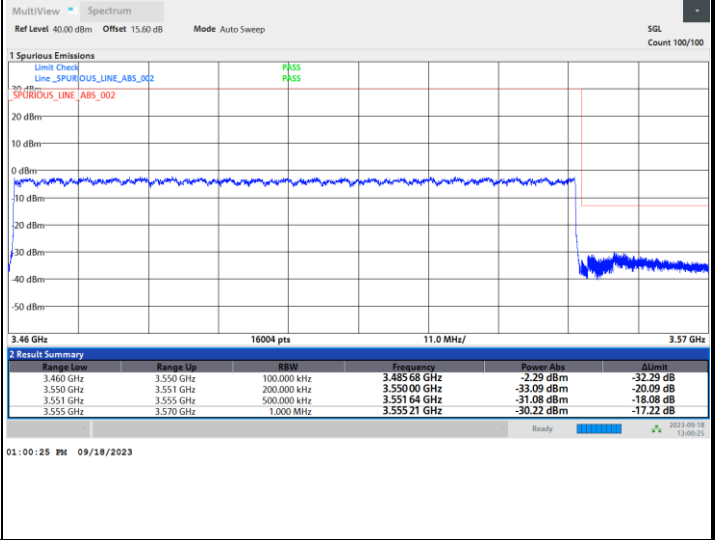
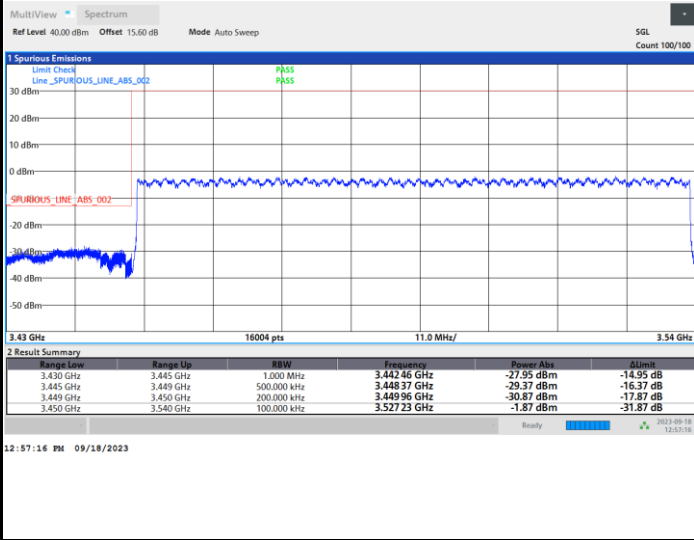




5G-FR1 SA UL MIMO n77 (PC1.5) / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

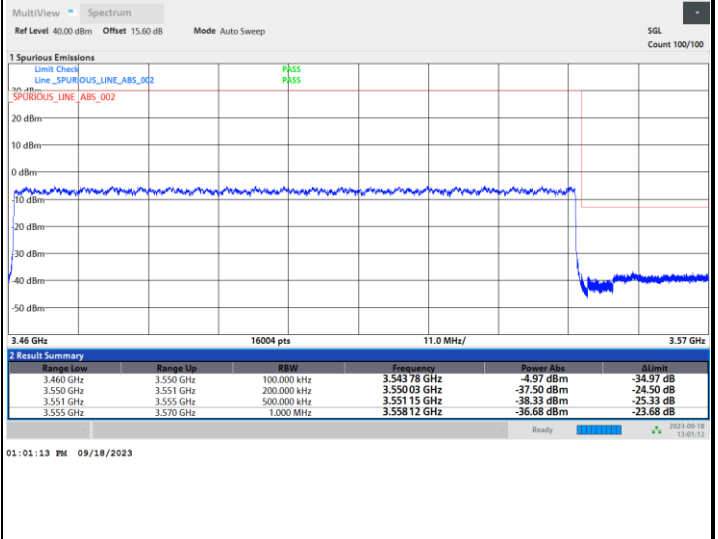
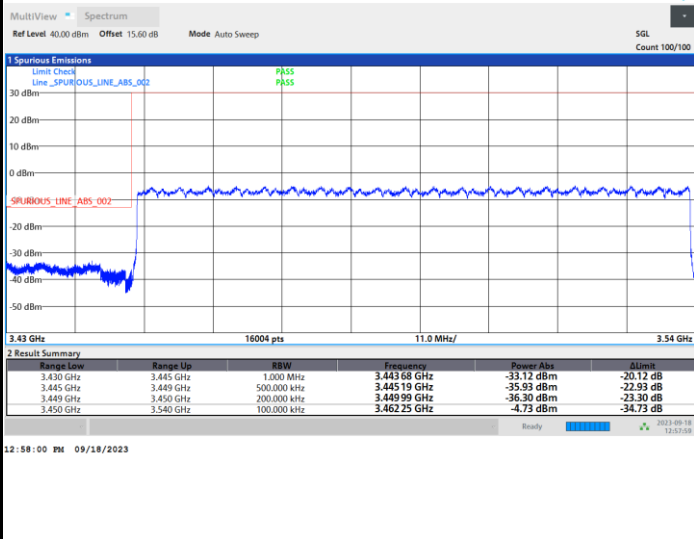
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

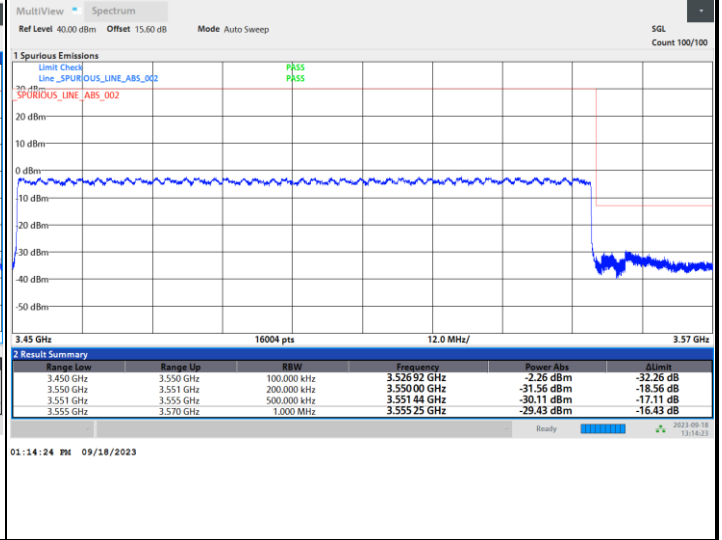
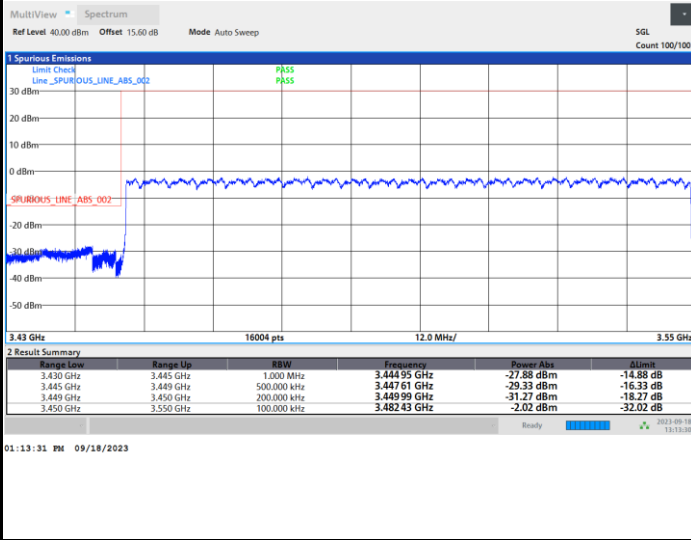




5G-FR1 SA UL MIMO n77 (PC1.5) / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

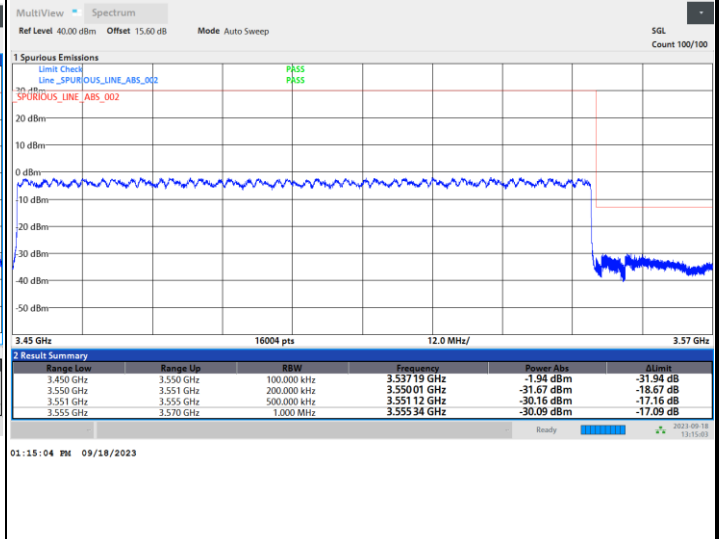
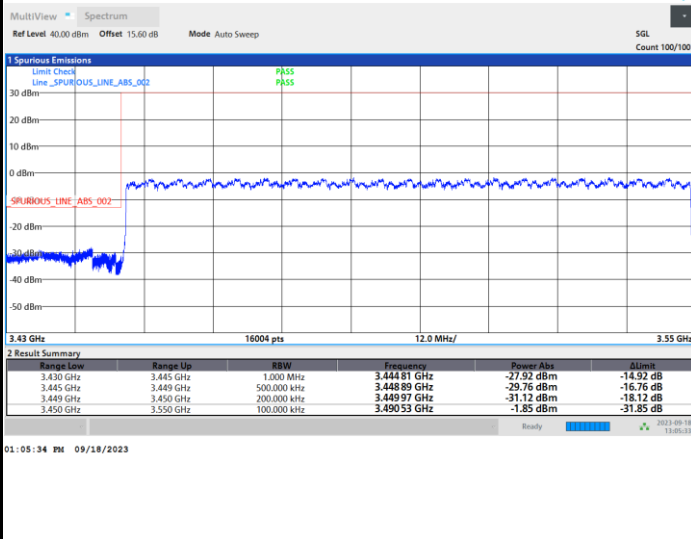
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

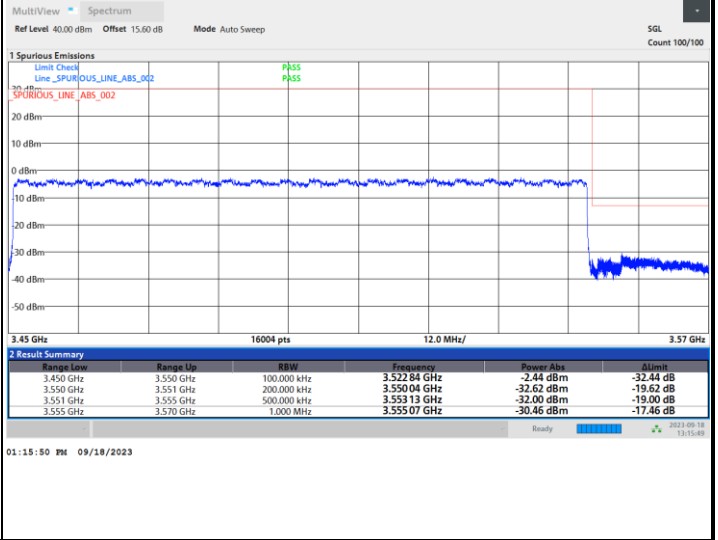
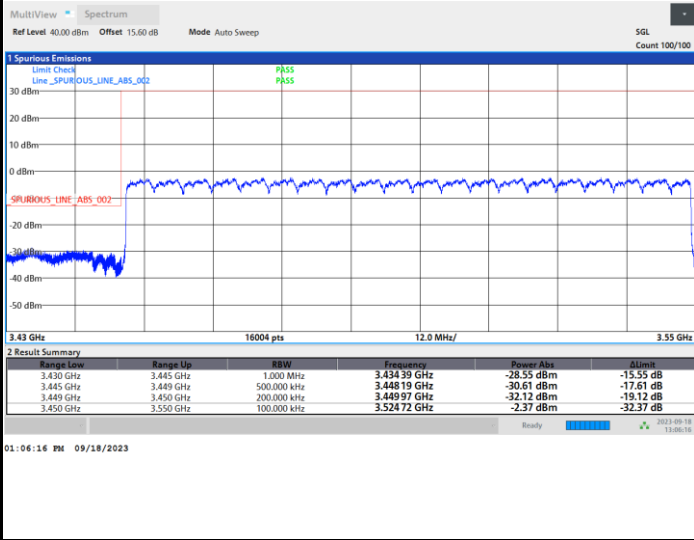




5G-FR1 SA UL MIMO n77 (PC1.5) / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

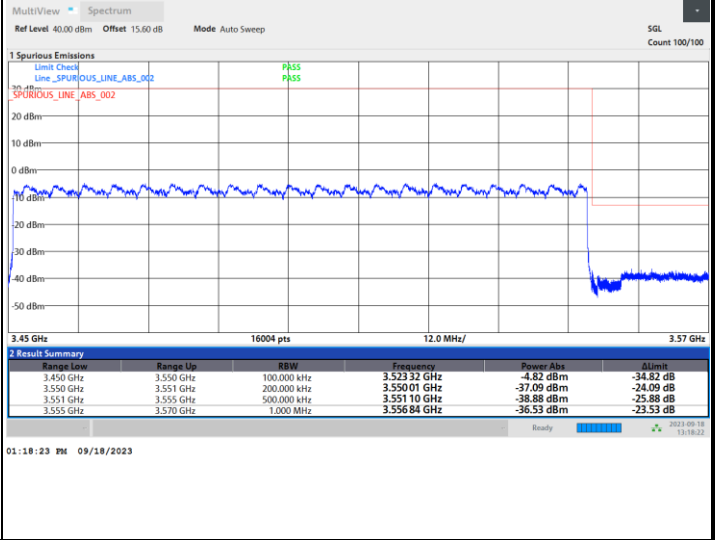
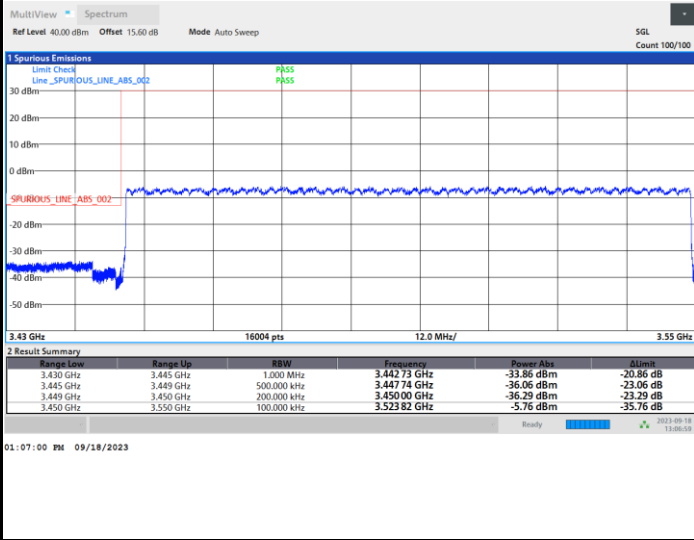
Highest Band Edge / Full RB



5G-FR1 SA UL MIMO n77 (PC1.5) / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



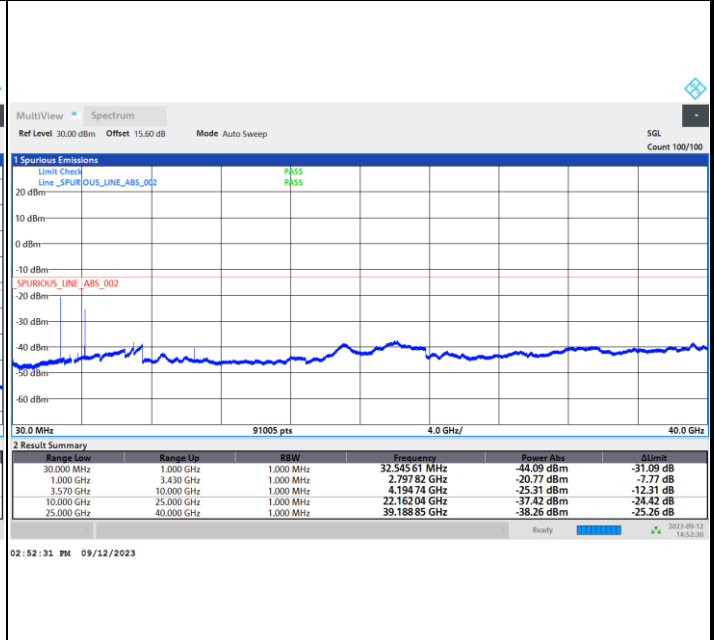
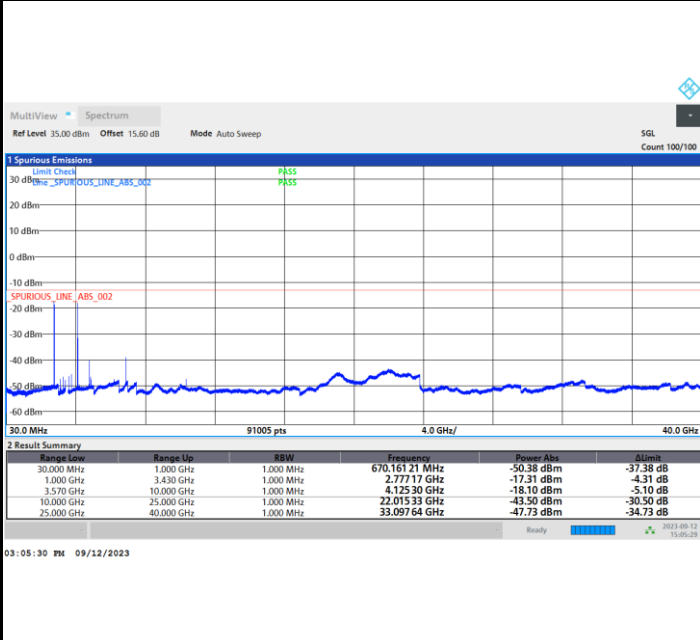


Conducted Spurious Emission

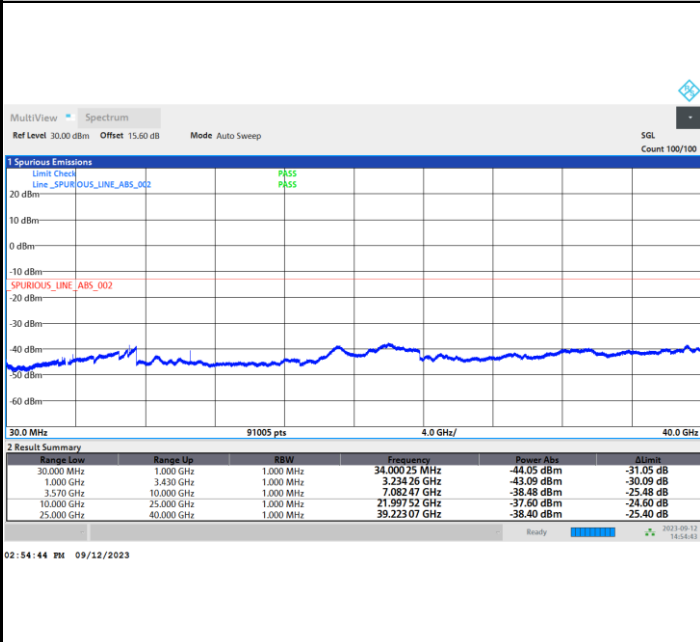
5G-FR1 SA UL MIMO n77 (PC1.5) / 10MHz / CP OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		5G-FR1 SA UL MIMO n77 (PC1.5) (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

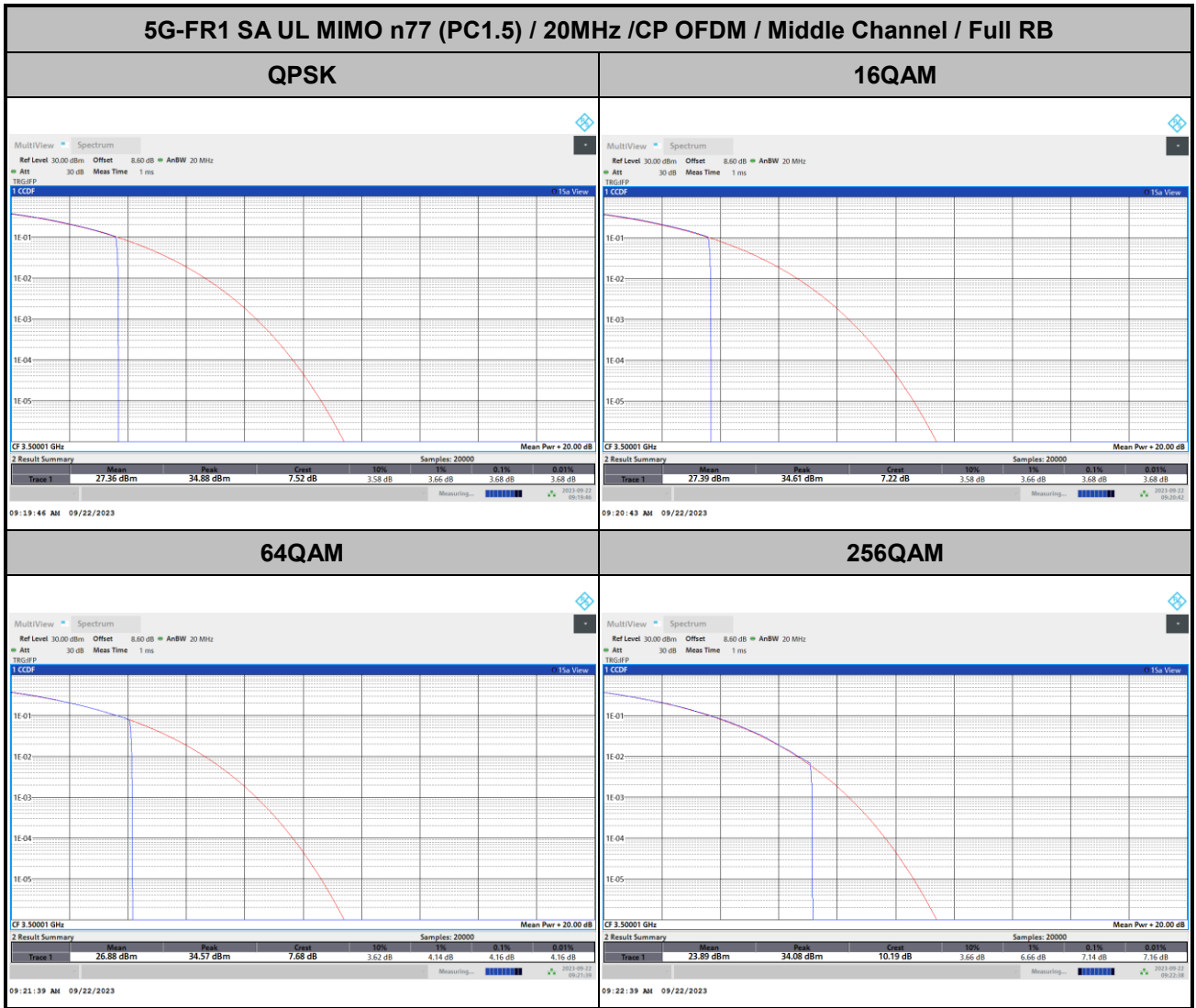
1. Normal Voltage = 48 V. ; Minimum Voltage = 42.5 V. ; Maximum Voltage = 57 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <Ant. 6>

Peak-to-Average Ratio

Mode	5G-FR1 SA UL MIMO n77 (PC1.5) / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.68	3.68	4.16	7.14	PASS





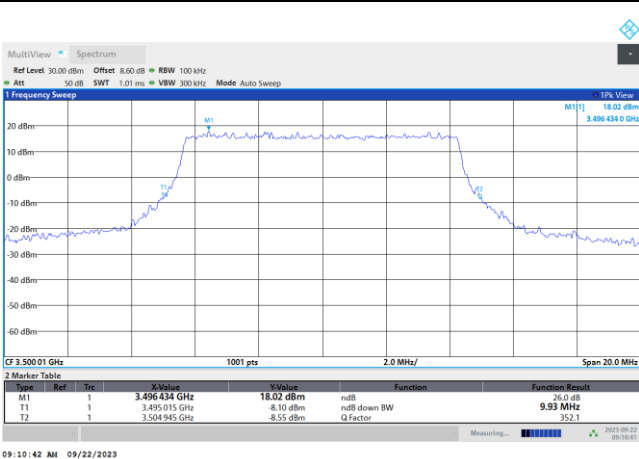
26dB Bandwidth

Mode	5G-FR1 SA UL MIMO n77 (PC1.5) : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.93	9.93	15.20	15.23	20.06	20.10	25.08	25.13
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.79	9.89	15.35	15.32	19.86	19.98	25.03	24.98
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	29.79	29.79	40.76	40.68	50.65	50.75	61.02	60.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	29.67	29.43	40.68	40.76	50.55	50.35	61.14	61.14
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	70.77	70.77	80.72	80.88	90.99	90.81	101.10	101.10
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	70.91	70.77	80.88	81.04	90.81	90.81	100.90	101.10



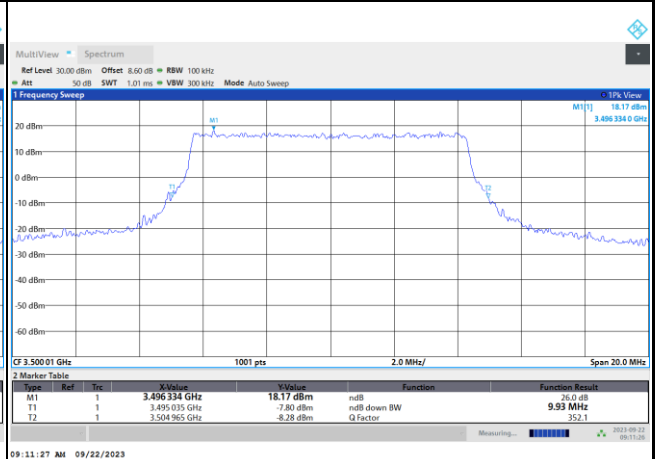
5G-FR1 SA UL MIMO n77 (PC1.5) / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



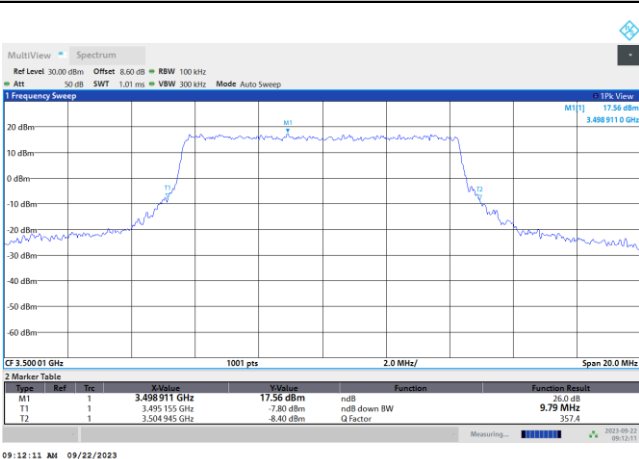
09:10:42 AM 09/22/2023

16QAM



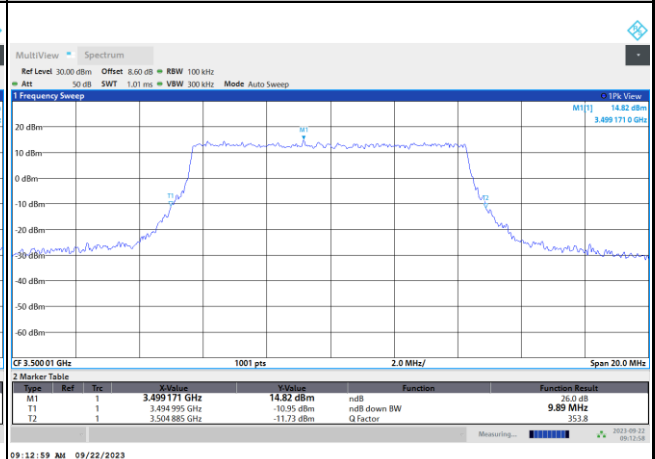
09:11:27 AM 09/22/2023

64QAM



09:12:11 AM 09/22/2023

256QAM

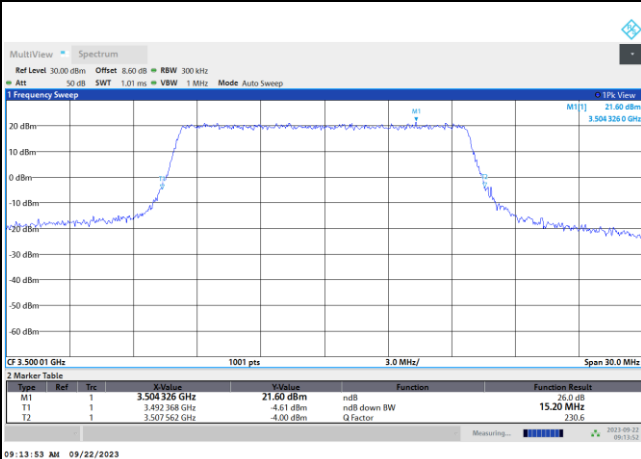


09:12:59 AM 09/22/2023



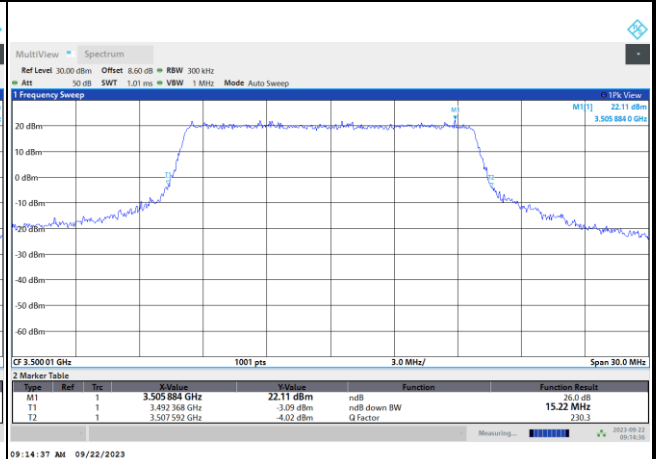
5G-FR1 SA UL MIMO n77 (PC1.5) / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



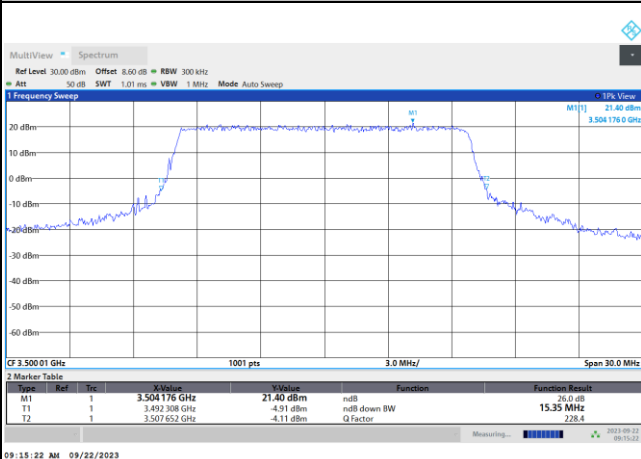
09:13:53 AM 09/22/2023

16QAM



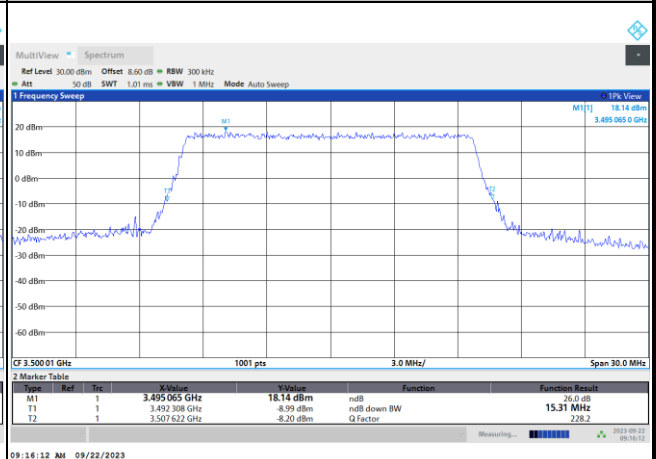
09:14:37 AM 09/22/2023

64QAM



09:15:22 AM 09/22/2023

256QAM

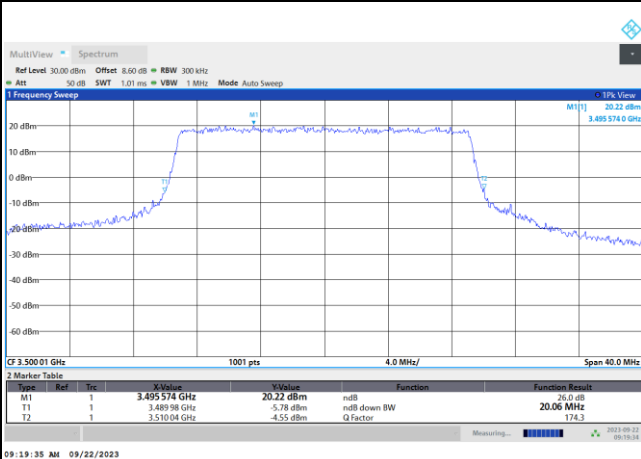


09:16:12 AM 09/22/2023

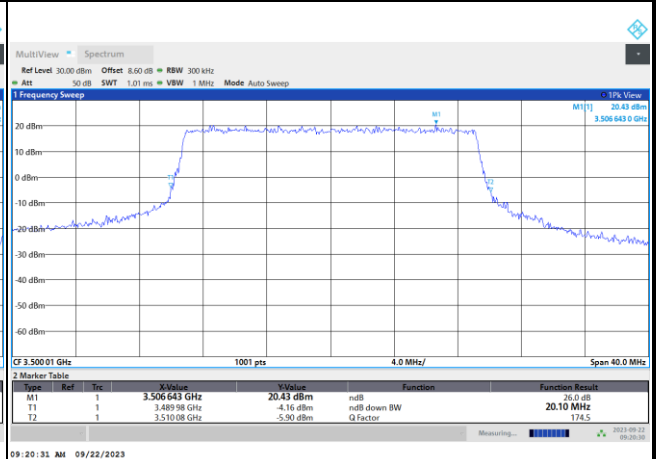


5G-FR1 SA UL MIMO n77 (PC1.5) / 20MHz / CP OFDM / Middle Channel / Full RB

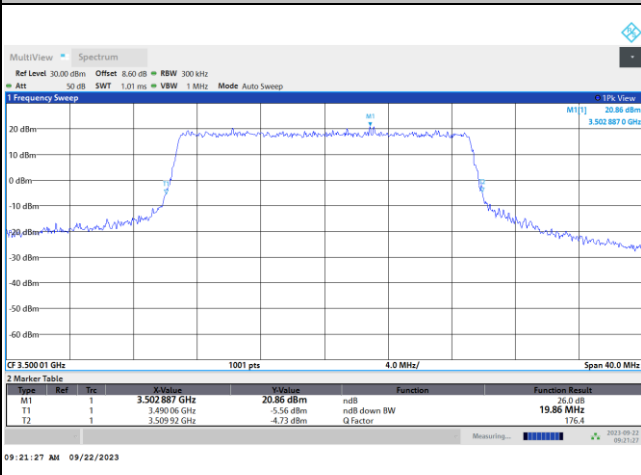
QPSK



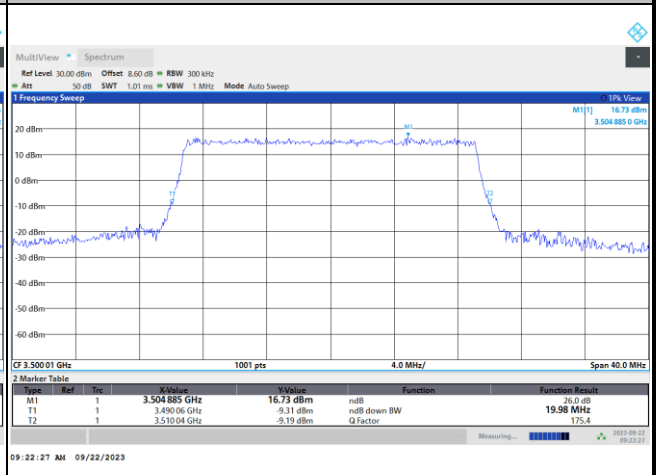
16QAM



64QAM



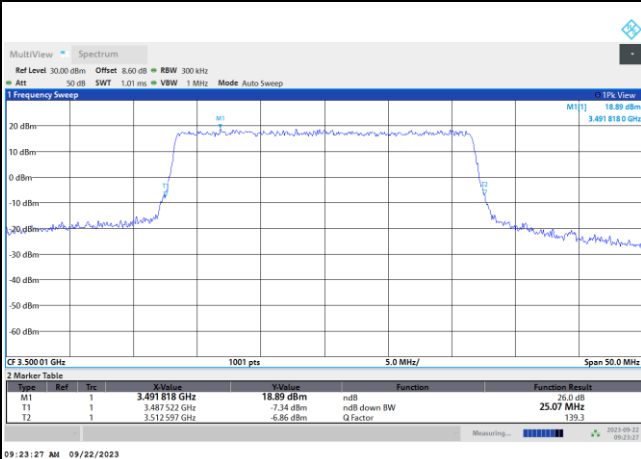
256QAM





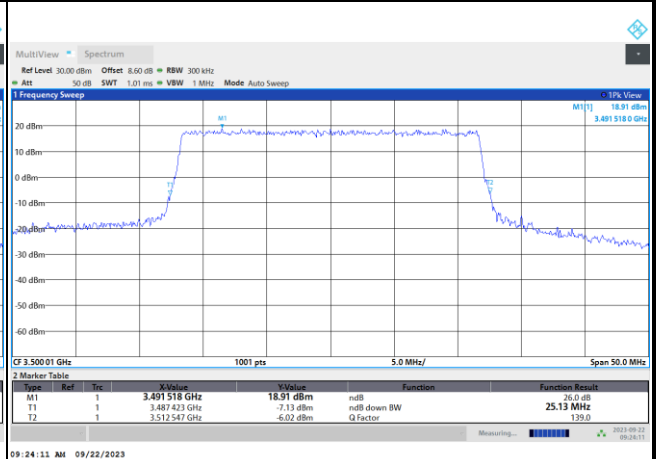
5G-FR1 SA UL MIMO n77 (PC1.5) / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK



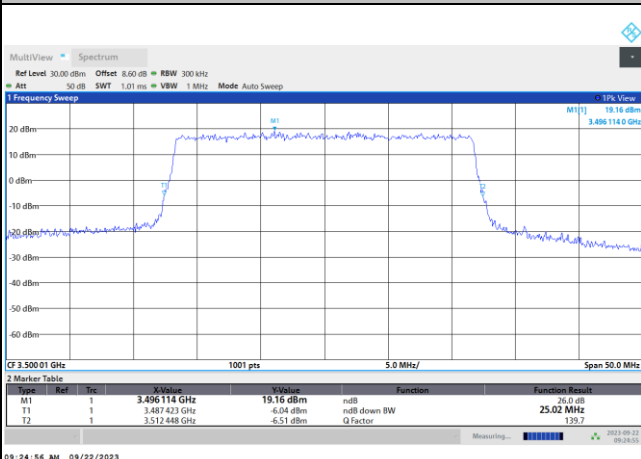
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16QAM



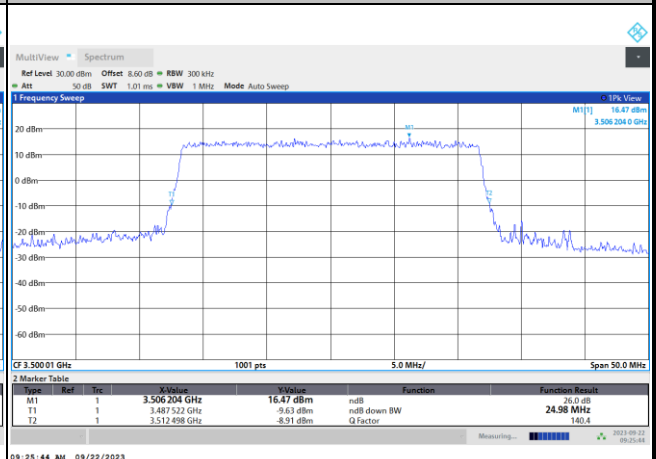
09:24:11 AM 09/22/2023

64QAM



09:24:56 AM 09/22/2023

256QAM



09:25:44 AM 09/22/2023