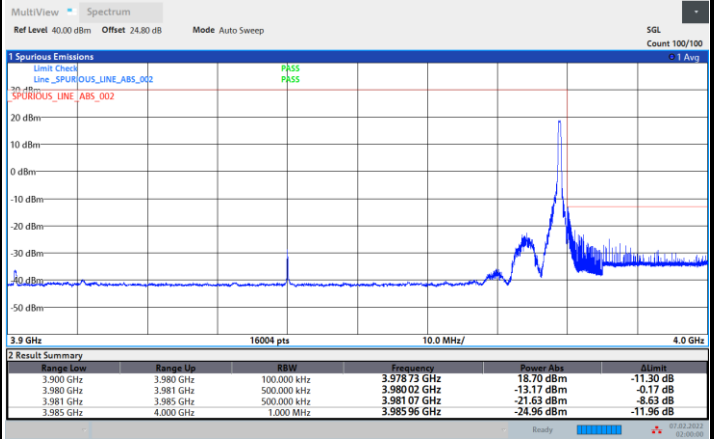
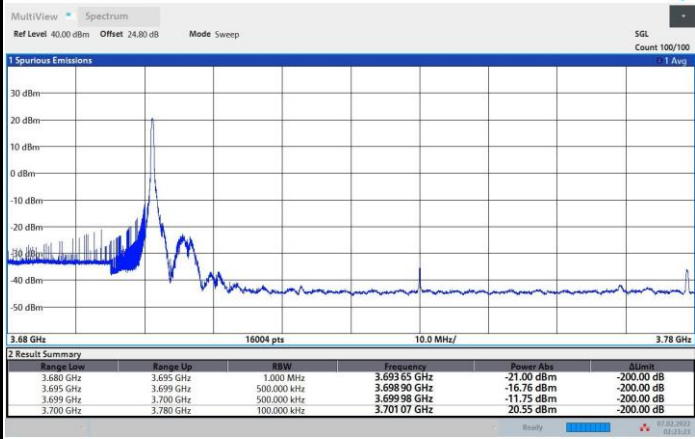




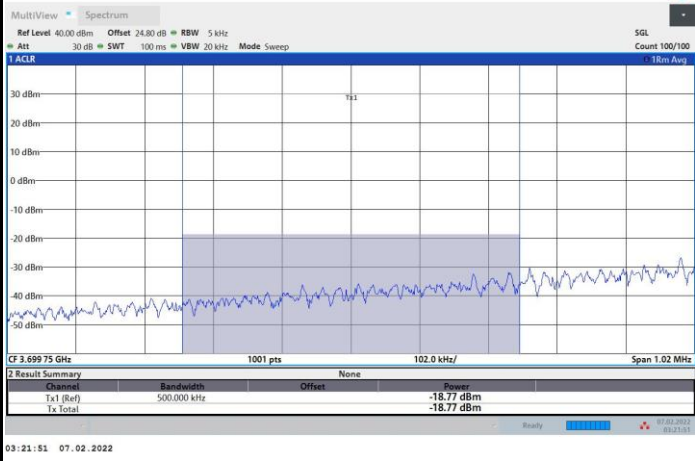
FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -18.77dBm (PASS)

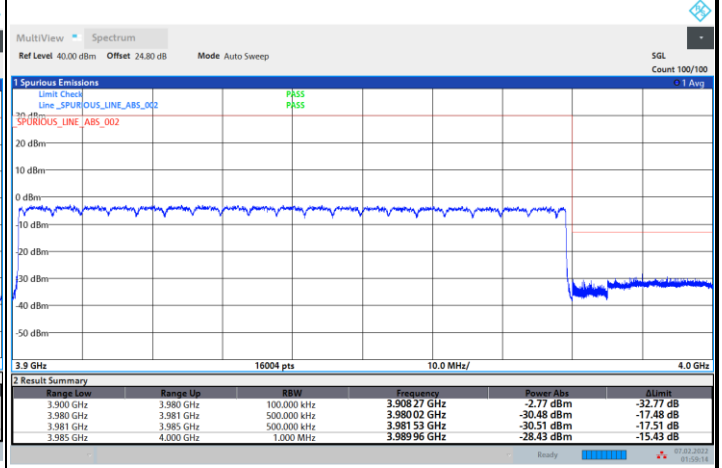
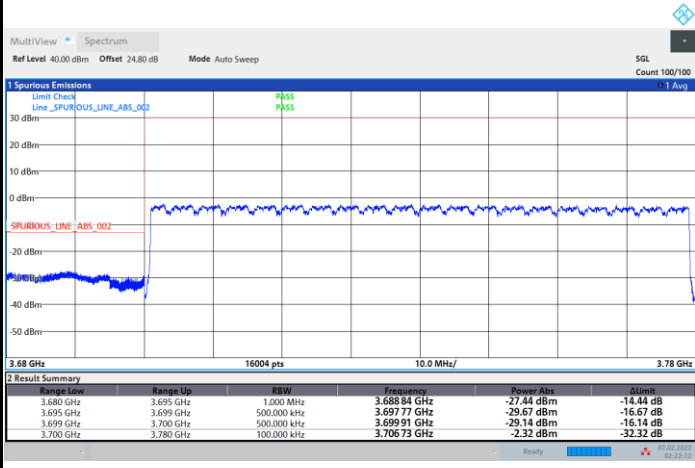




FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

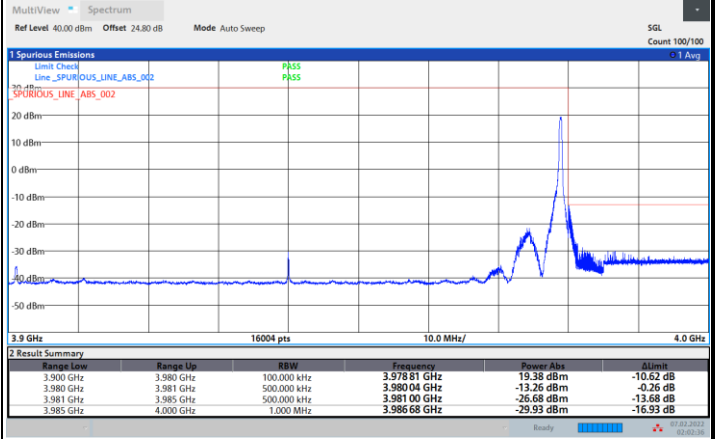
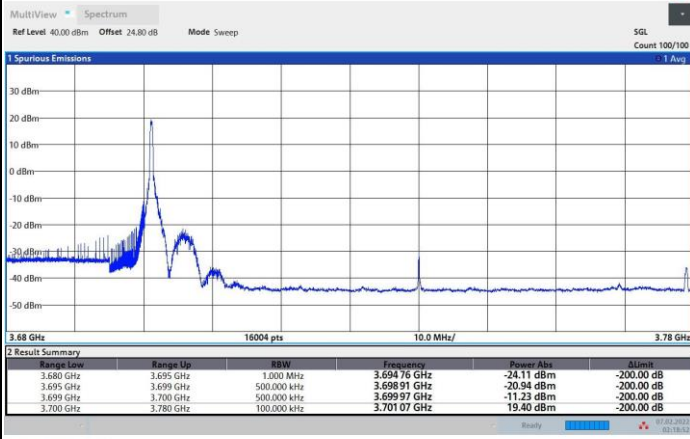




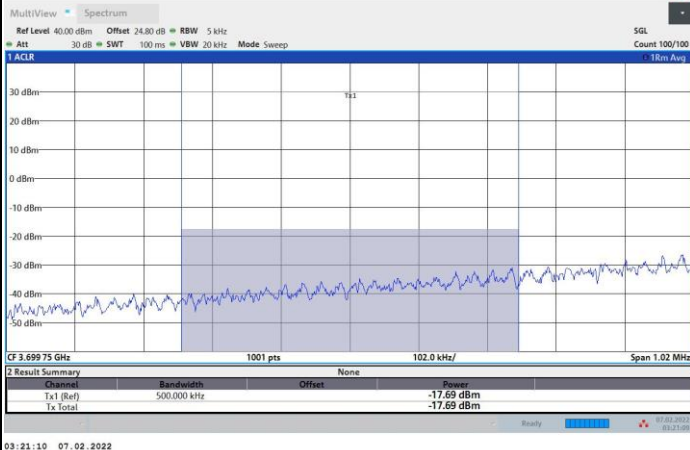
FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -17.69dBm (PASS)

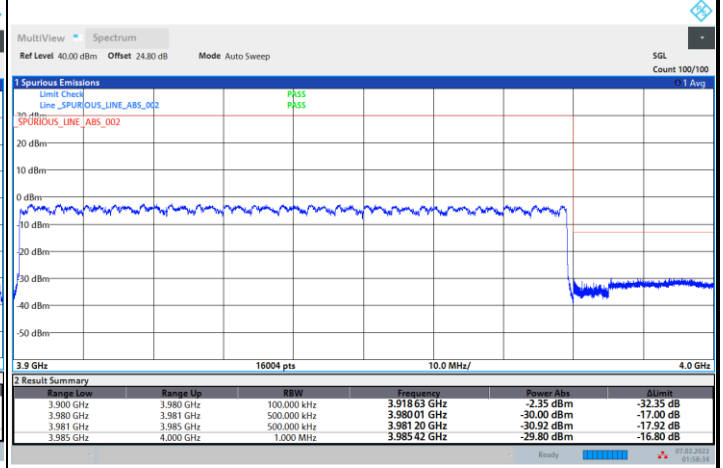
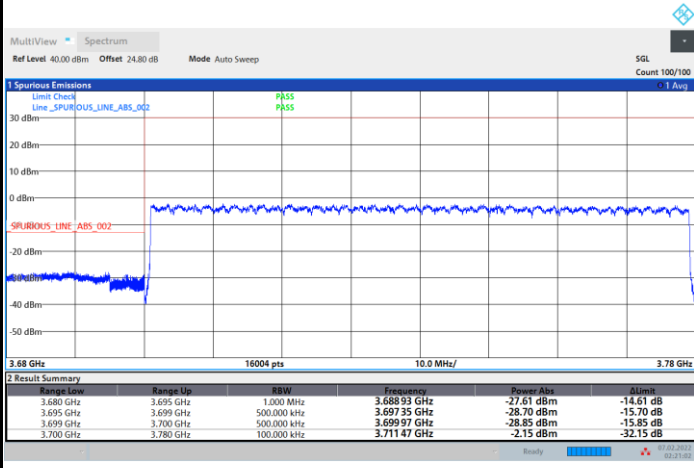




FR1 n77 / 80MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

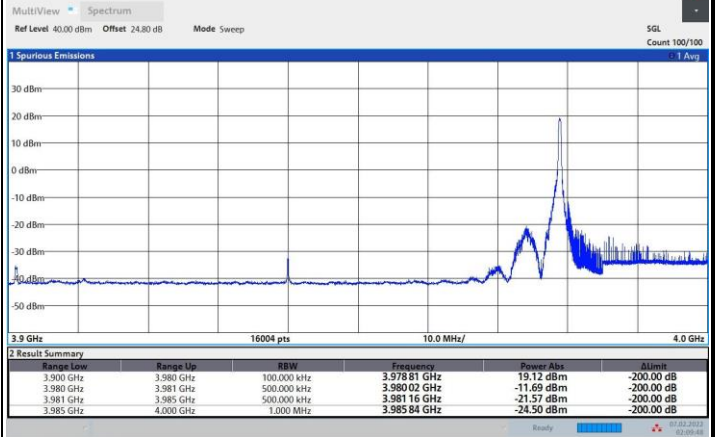
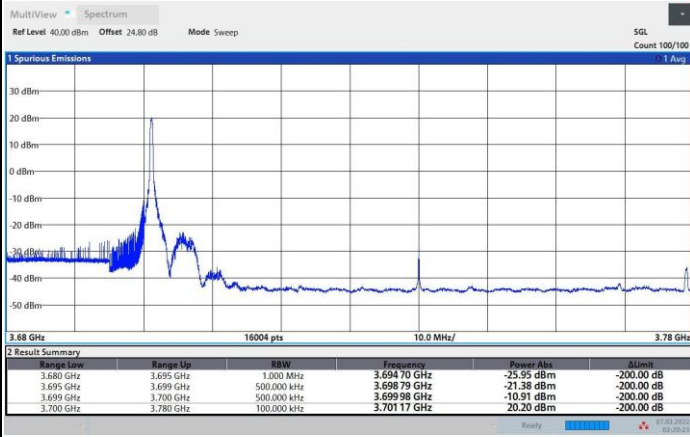




FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

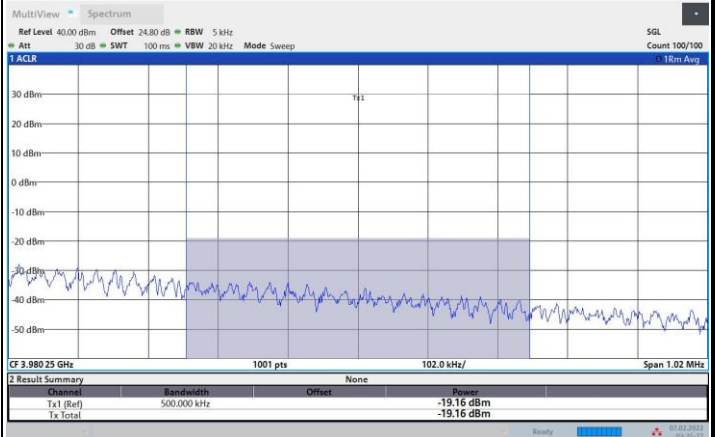
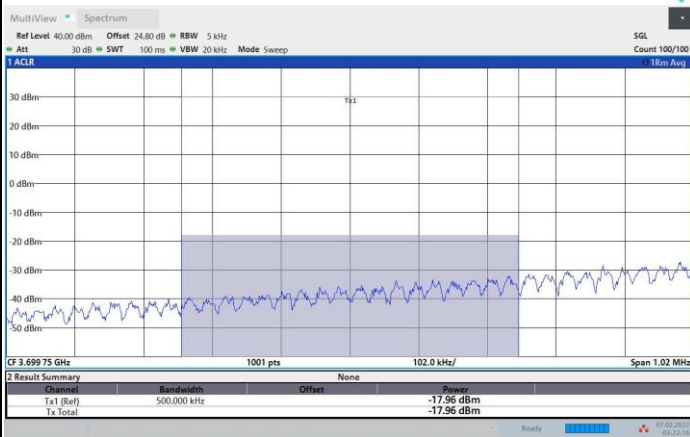


02:20:23 07.02.2022

02:09:49 07.02.2022

Channel power -13dBm > -17.96dBm (PASS)

Channel power -13dBm > -19.16dBm (PASS)



03:22:16 07.02.2022

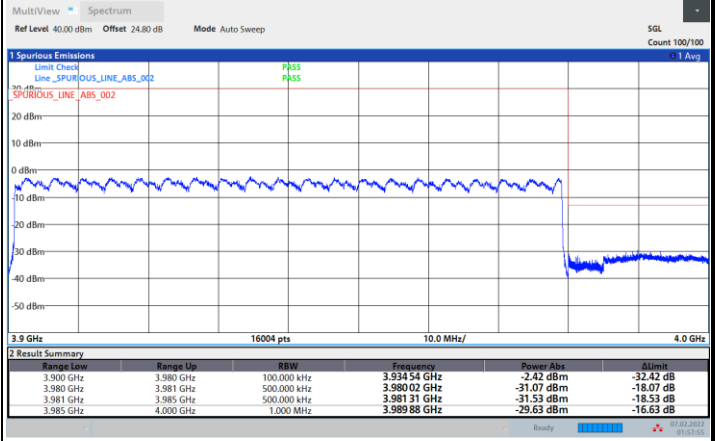
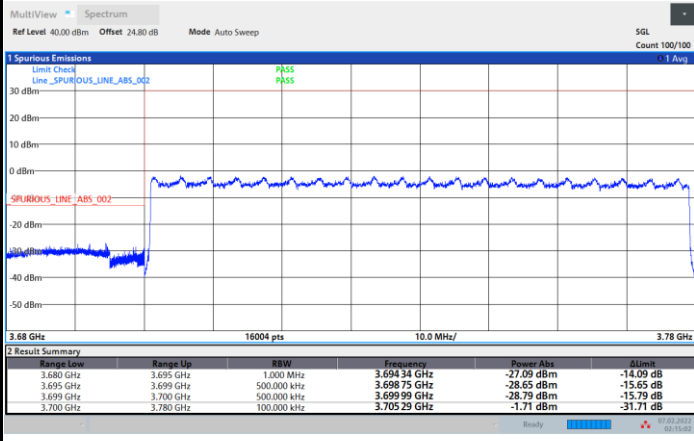
03:25:28 07.02.2022



FR1 n77 / 80MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

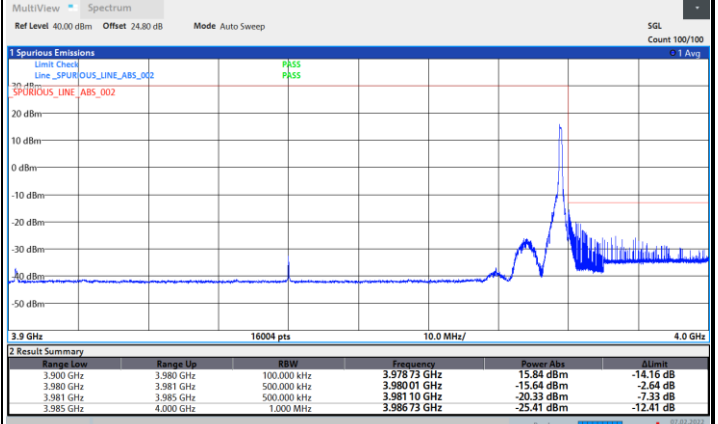
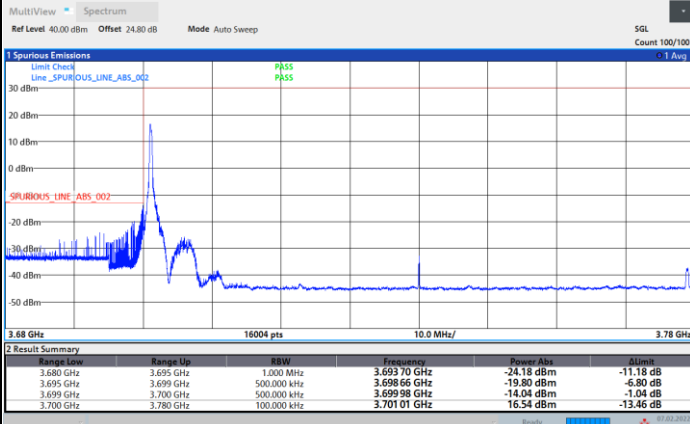




FR1 n77 / 80MHz / CP OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

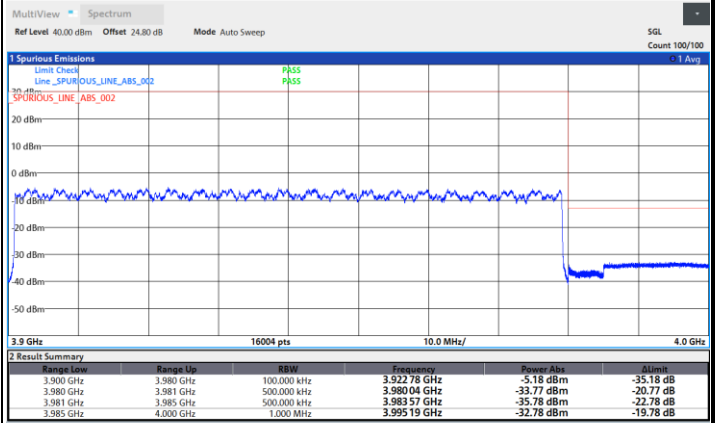
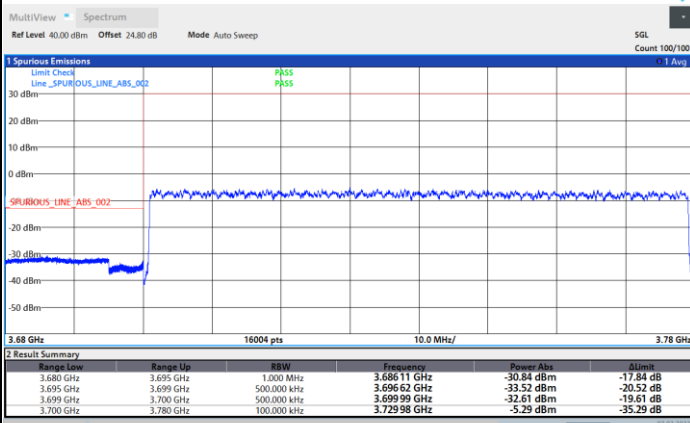


02:12:44 07.02.2022

02:11:28 07.02.2022

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



02:13:28 07.02.2022

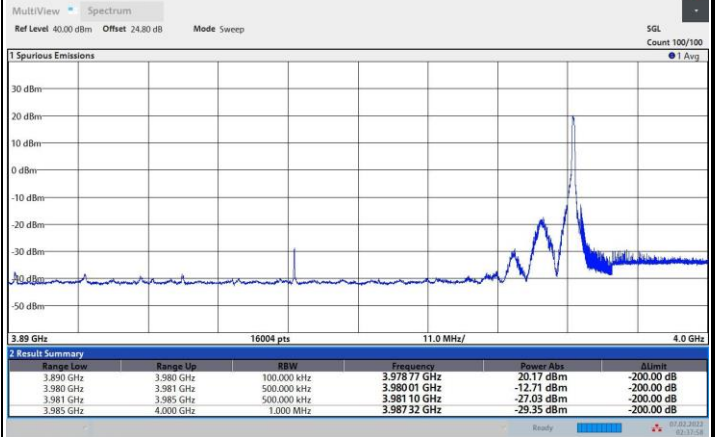
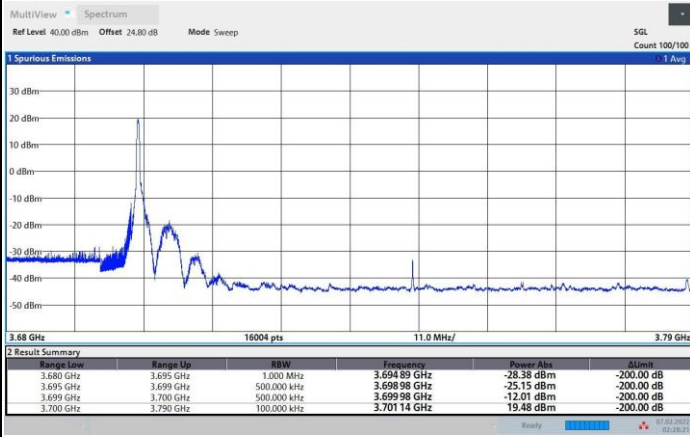
01:56:31 07.02.2022



FR1 n77 / 90MHz / CP OFDM / QPSK

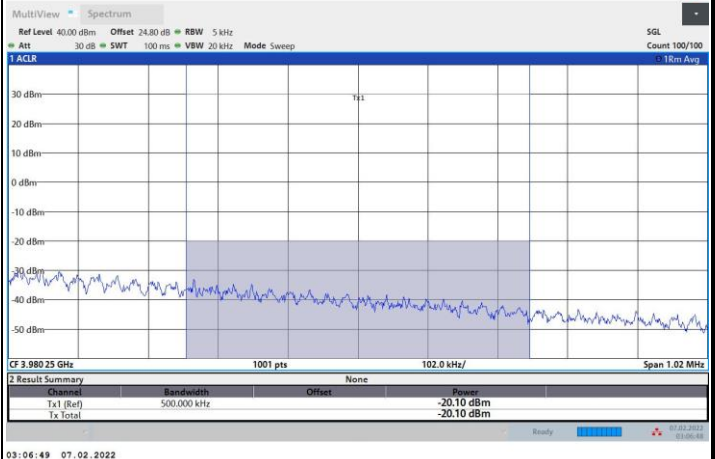
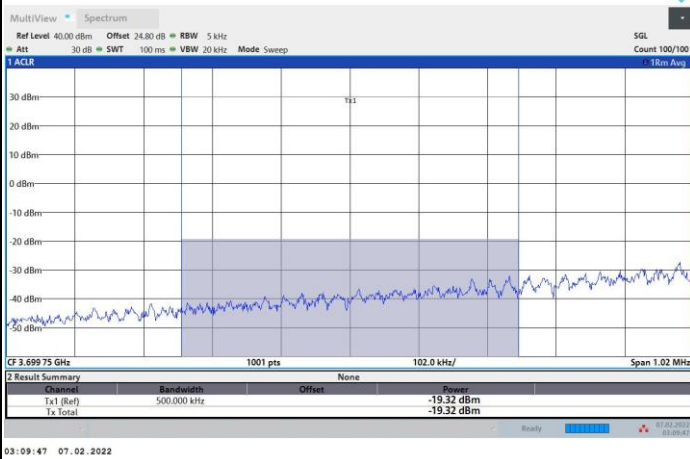
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -19.32dBm (PASS)

Channel power -13dBm > -20.10dBm (PASS)



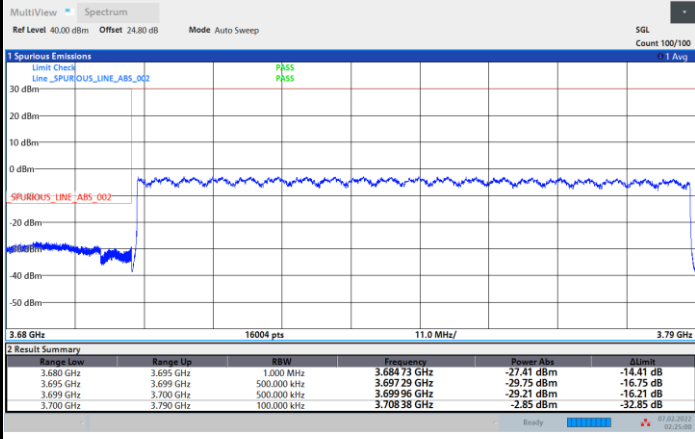




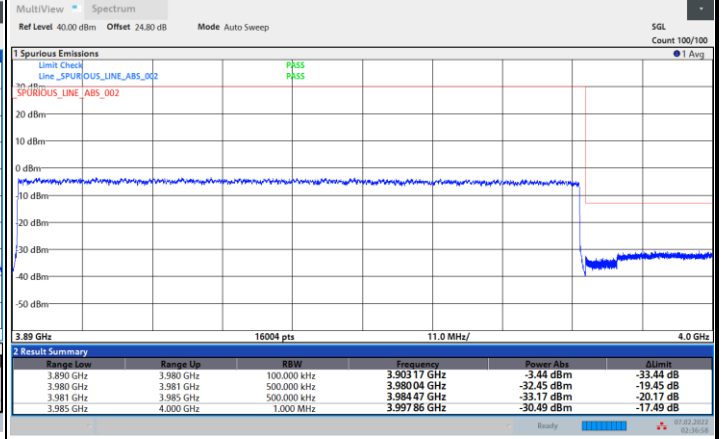
FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



02:25:01 07.02.2022



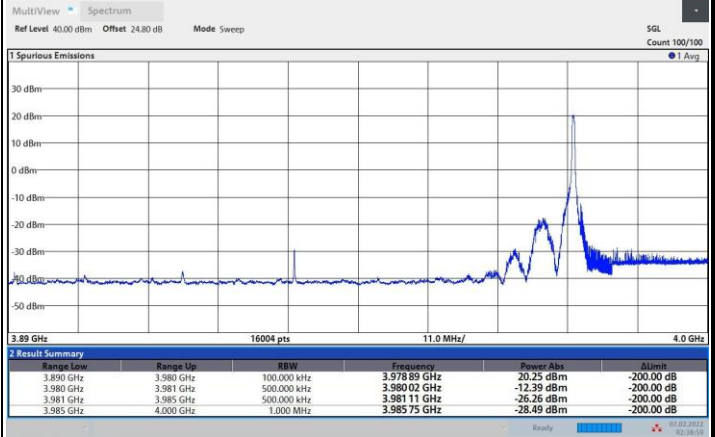
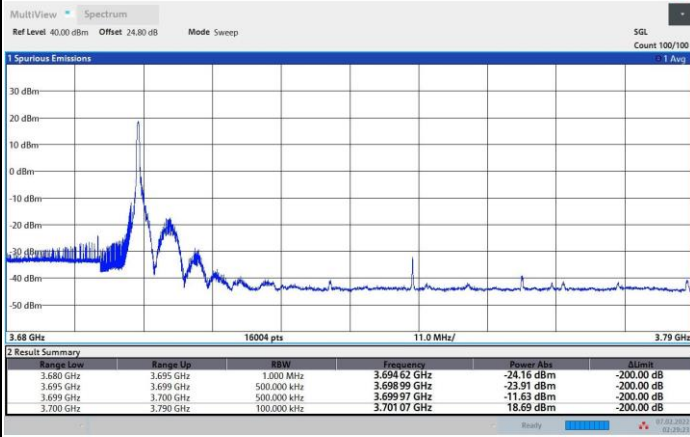
02:36:58 07.02.2022



FR1 n77 / 90MHz / CP OFDM / 16QAM

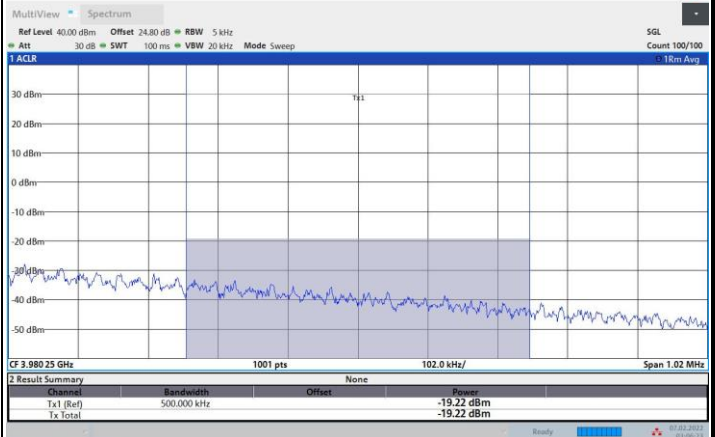
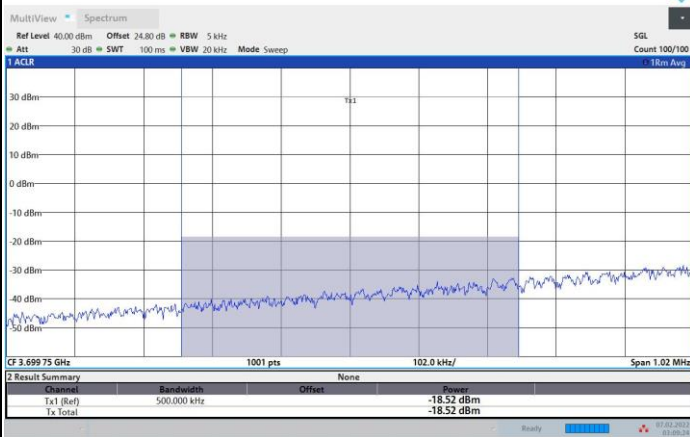
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -18.52dBm (PASS)

Channel power -13dBm > -19.22dBm (PASS)

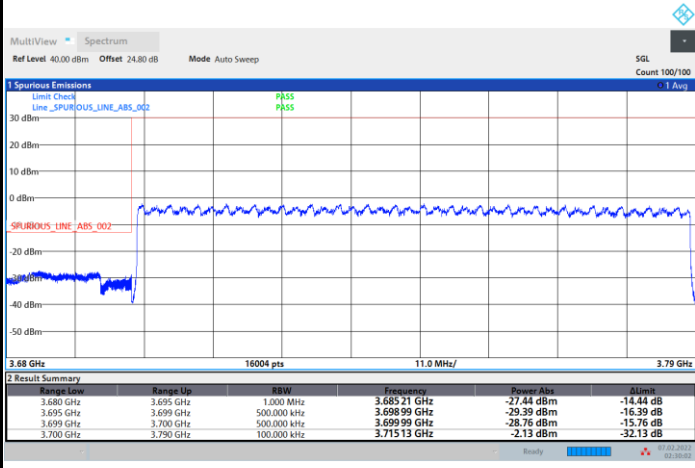




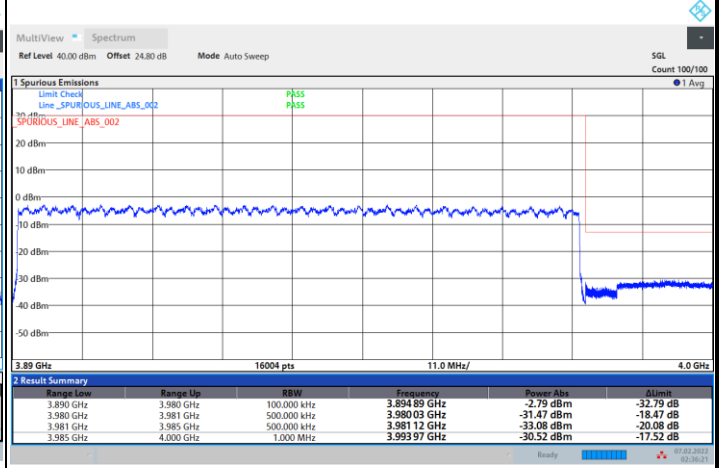
FR1 n77 / 90MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



02:30:03 07.02.2022



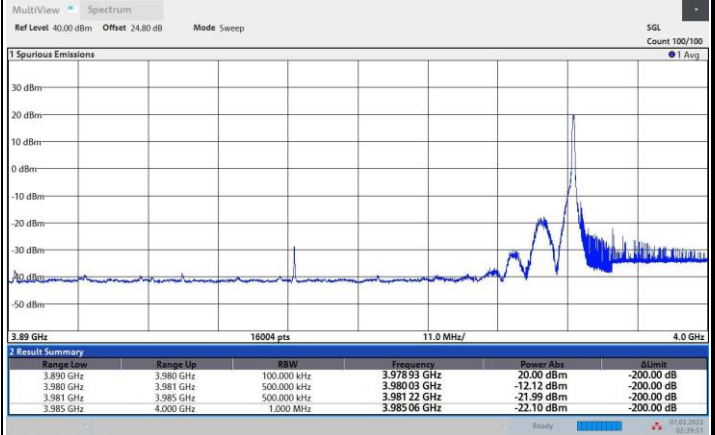
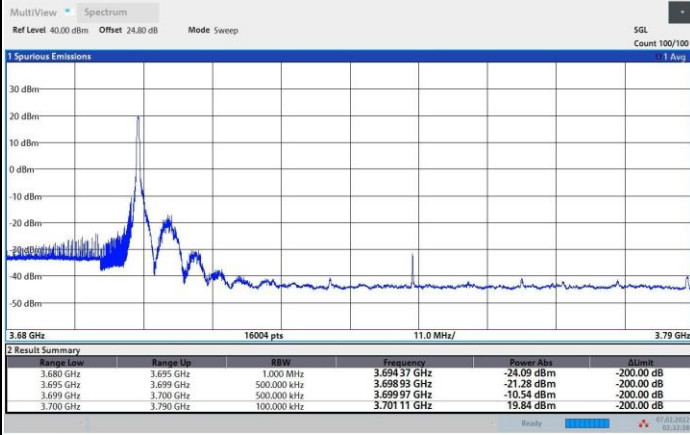
02:36:21 07.02.2022



FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

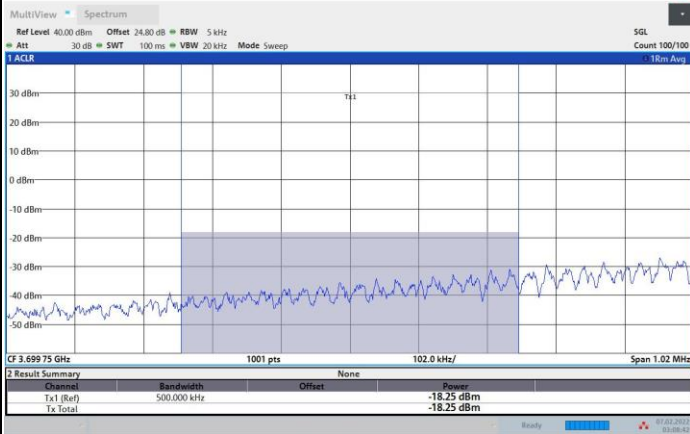


02:32:39 07.02.2022

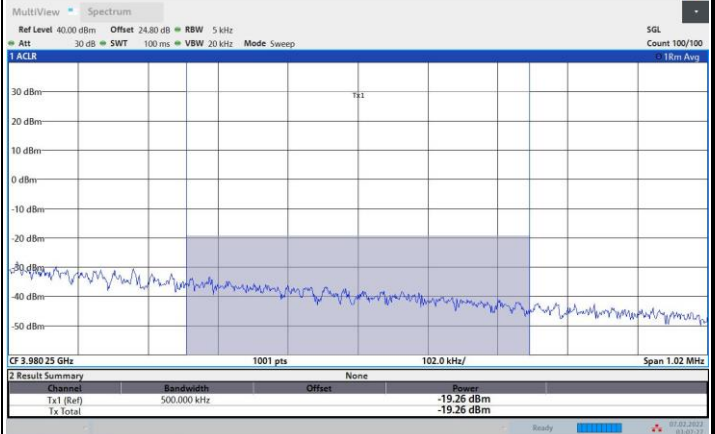
02:39:52 07.02.2022

Channel power -13dBm > -18.25dBm (PASS)

Channel power -13dBm > -19.26dBm (PASS)



03:08:43 07.02.2022



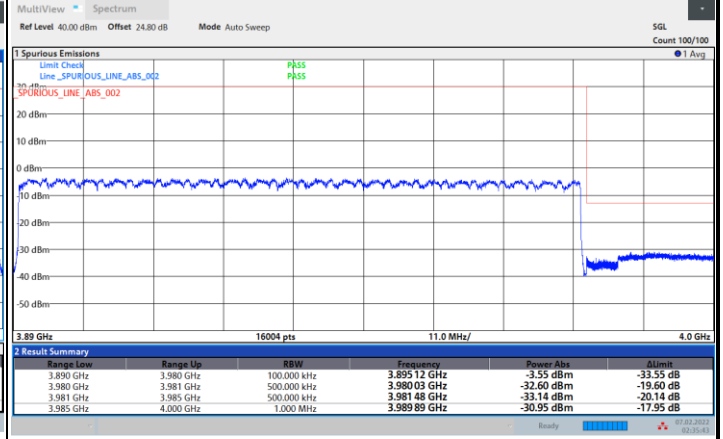
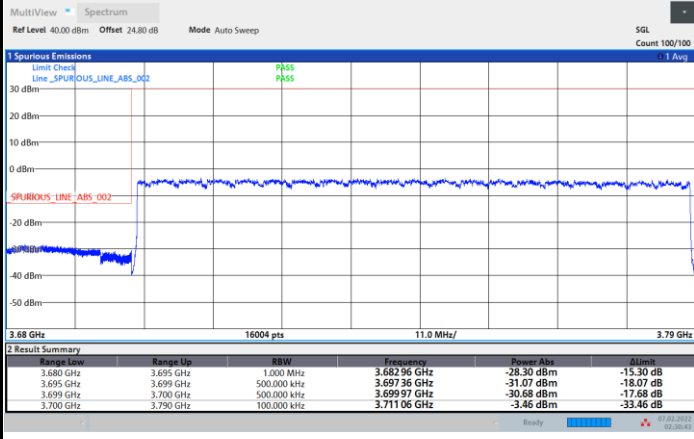
03:07:28 07.02.2022



FR1 n77 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

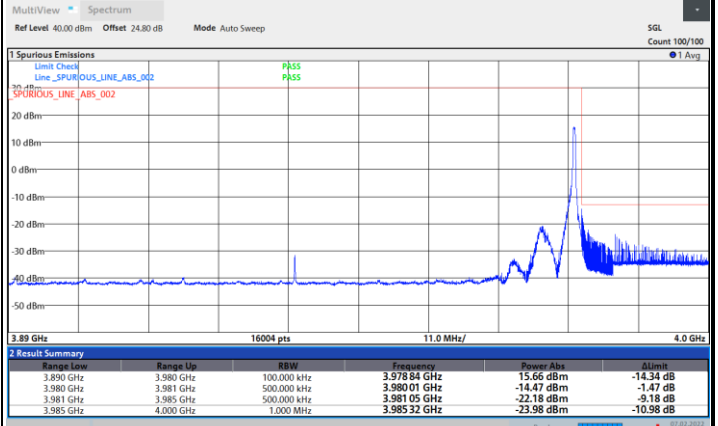
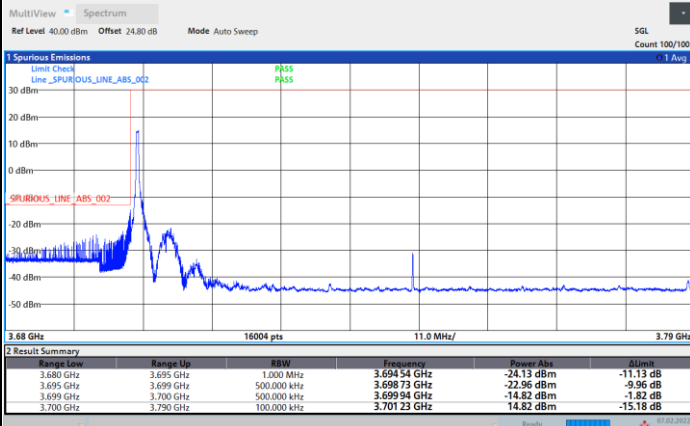




FR1 n77 / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

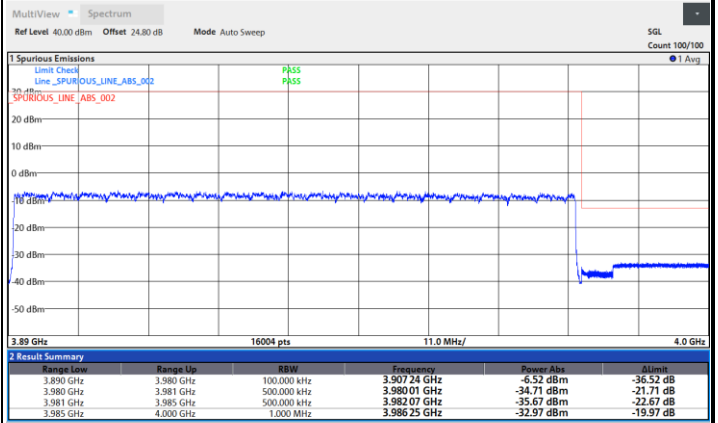
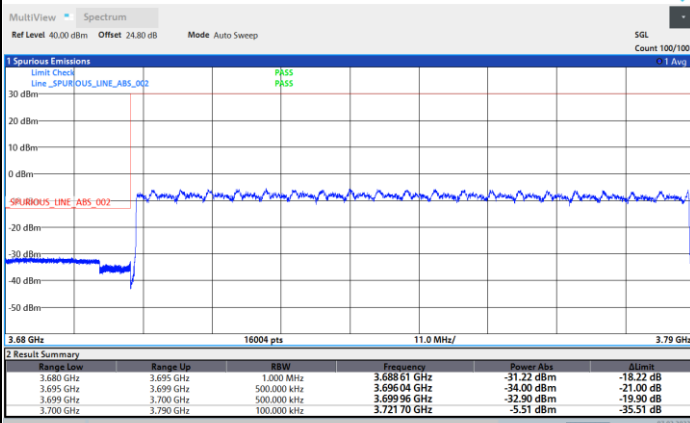


02:33:25 07.02.2022

02:40:35 07.02.2022

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



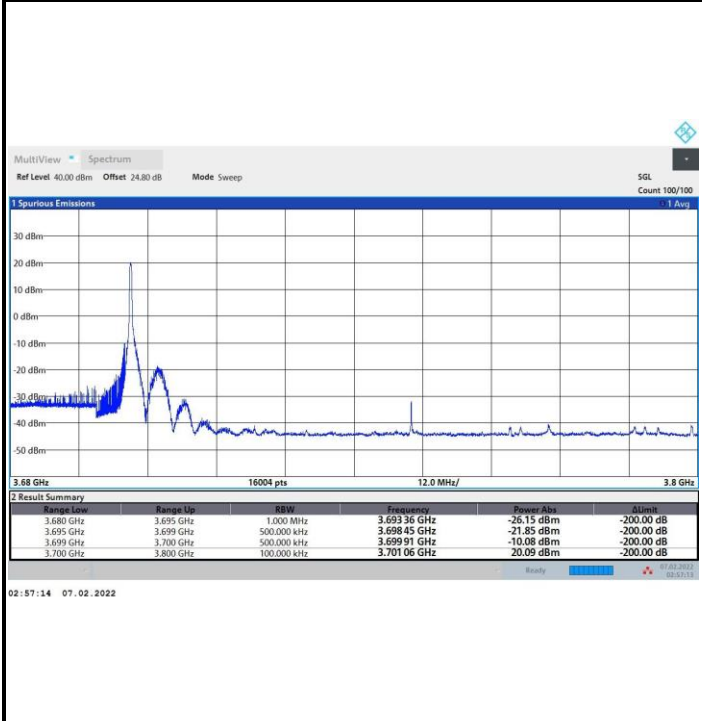
02:34:06 07.02.2022

02:35:06 07.02.2022

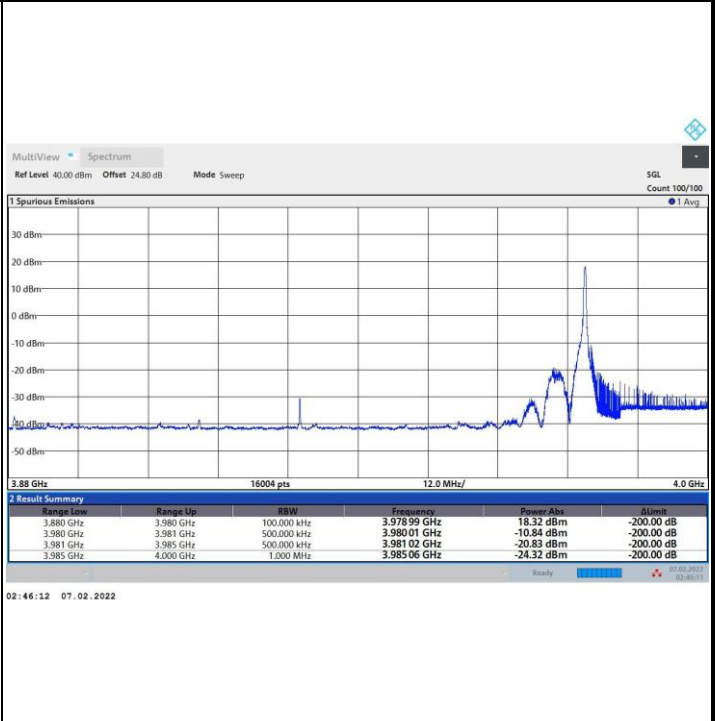


**FR1 n77 / 100MHz / CP OFDM / QPSK**

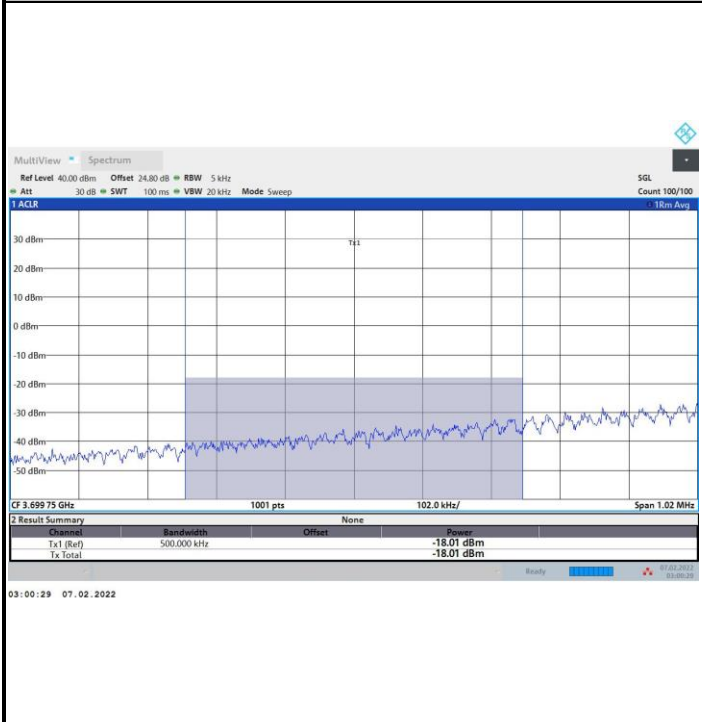
**Lowest Band Edge / 1RB0**



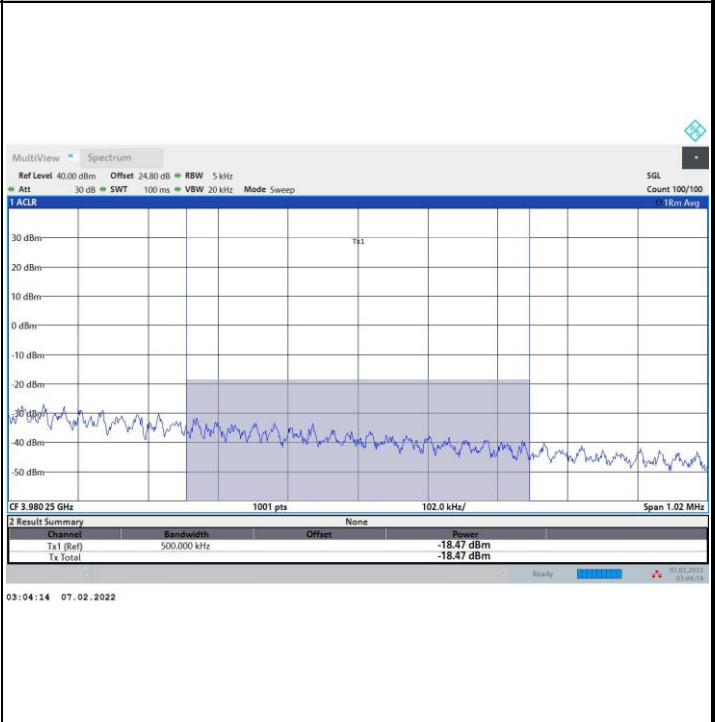
**Highest Band Edge / 1RBmax**



**Channel power -13dBm > -18.01dBm (PASS)**



**Channel power -13dBm > -18.47dBm (PASS)**

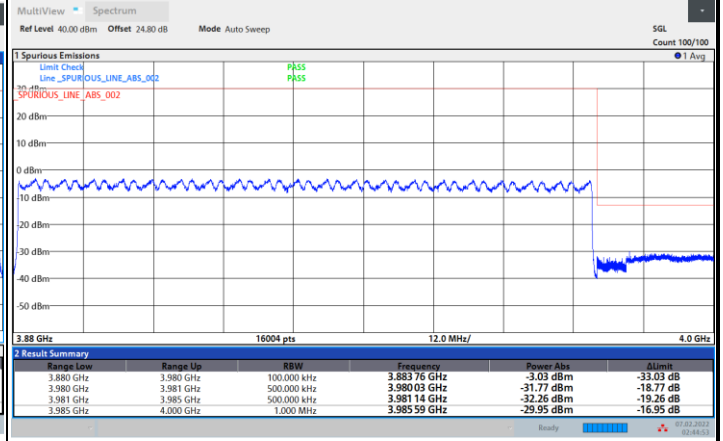
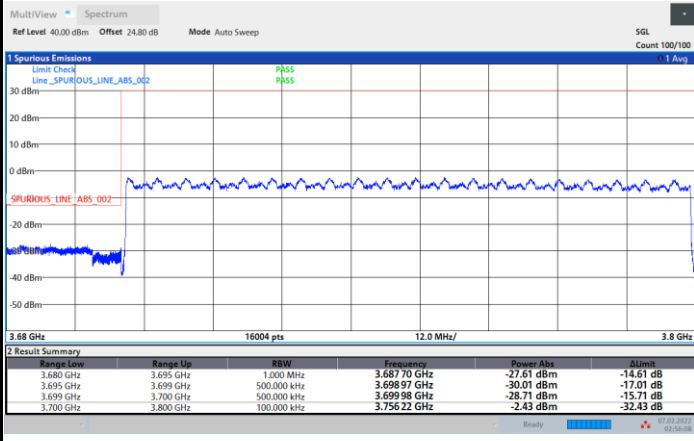




FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



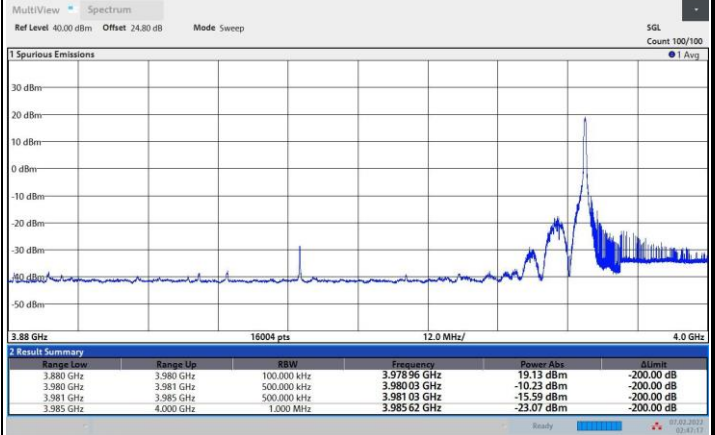
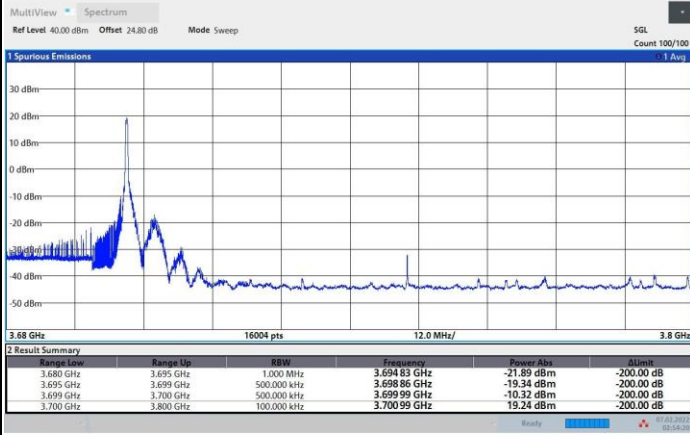




FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

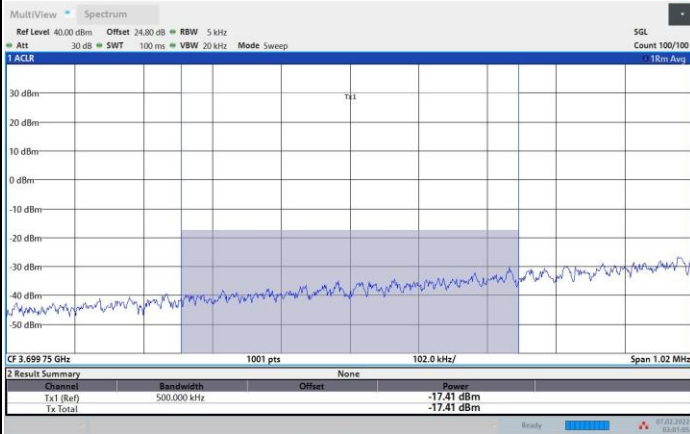


02:54:21 07.02.2022

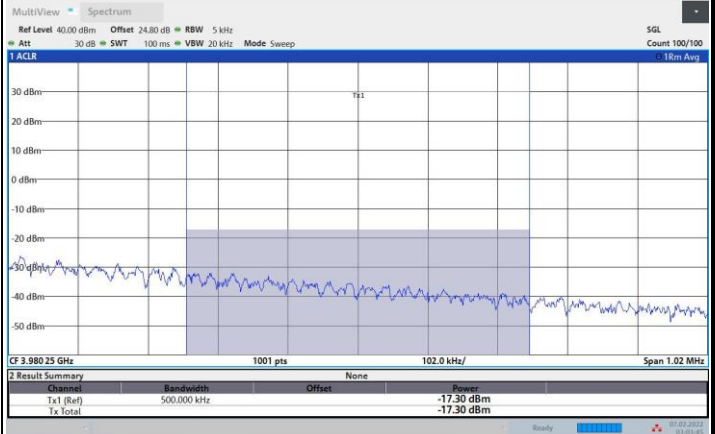
02:47:18 07.02.2022

Channel power -13dBm > -17.41dBm (PASS)

Channel power -13dBm > -17.30dBm (PASS)



03:01:05 07.02.2022



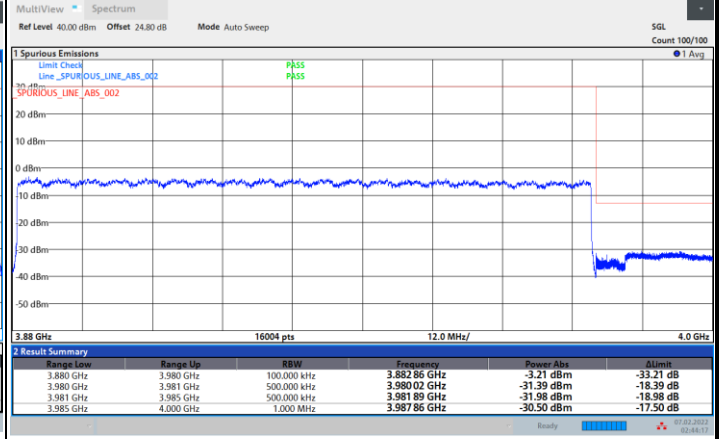
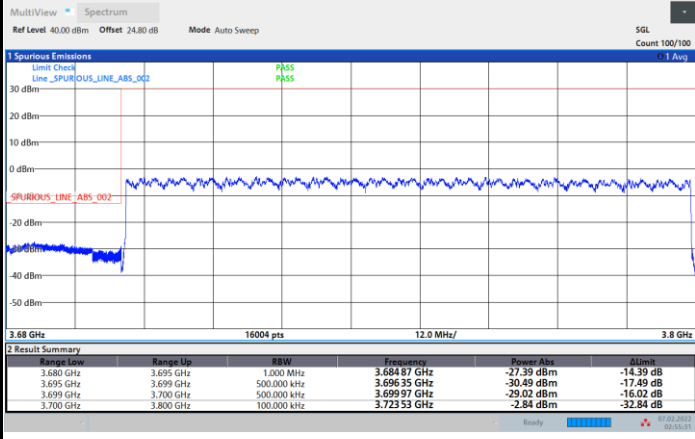
03:03:46 07.02.2022



FR1 n77 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

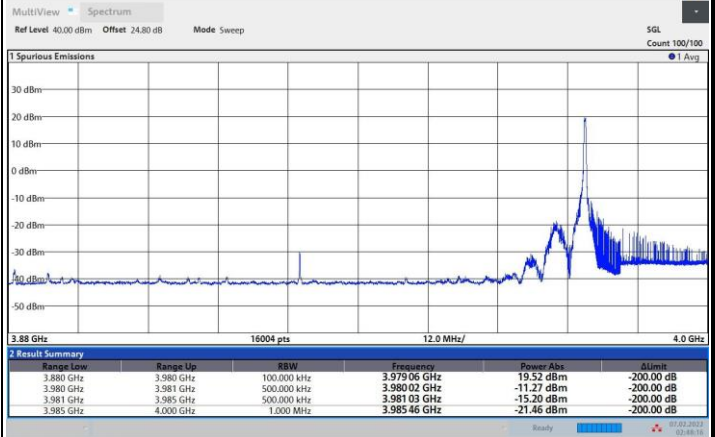
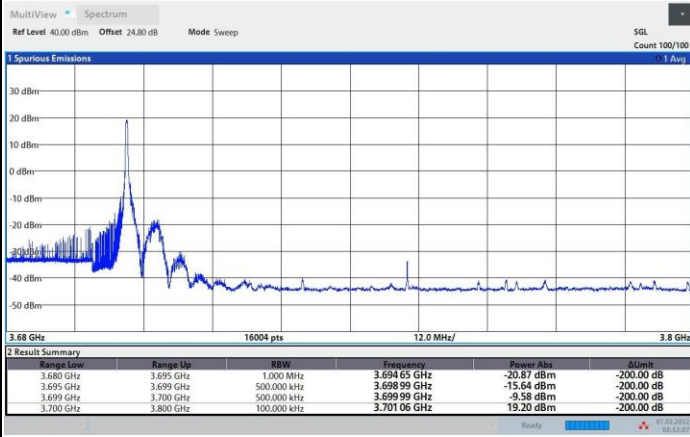




FR1 n77 / 100MHz / CP OFDM / 64QAM

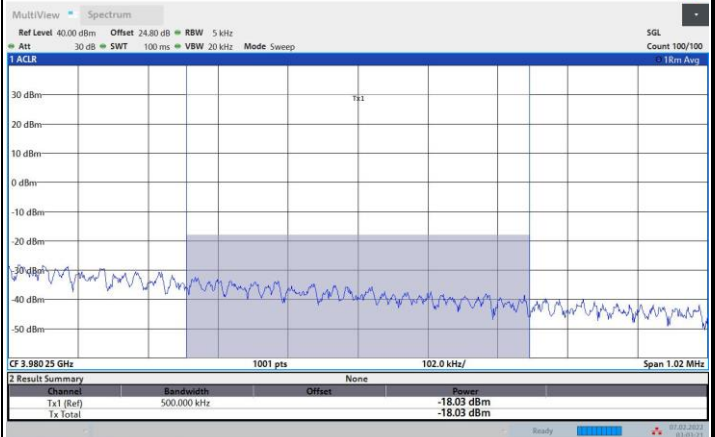
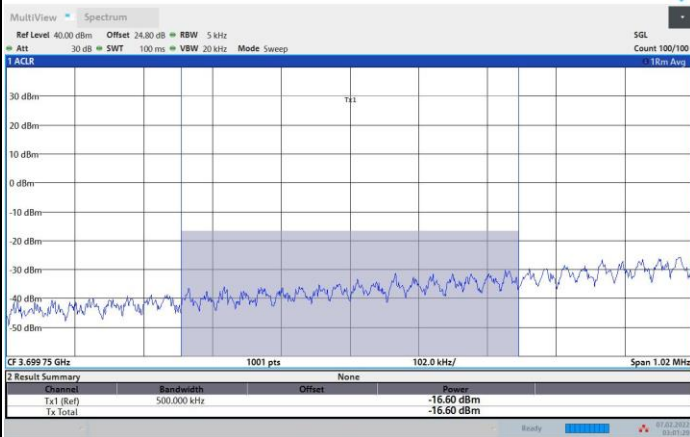
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -16.60dBm (PASS)

Channel power -13dBm > -18.03dBm (PASS)

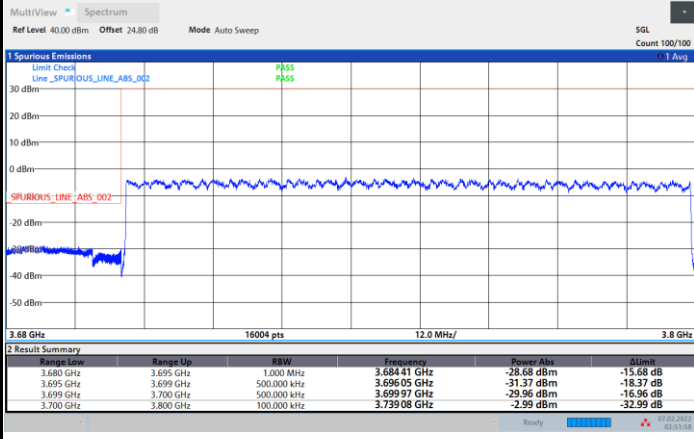




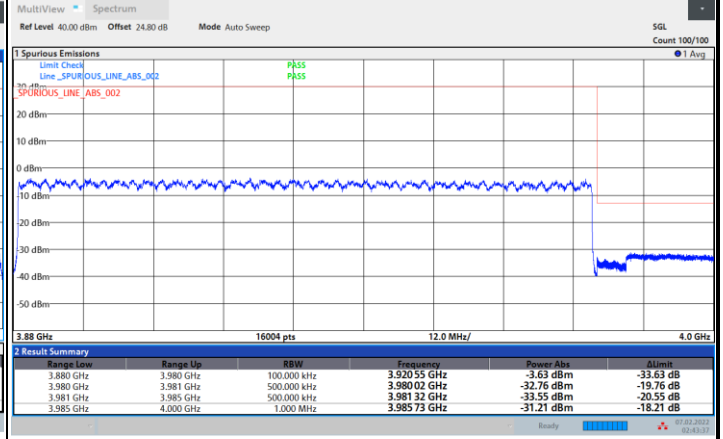
FR1 n77 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



02:51:59 07.02.2022



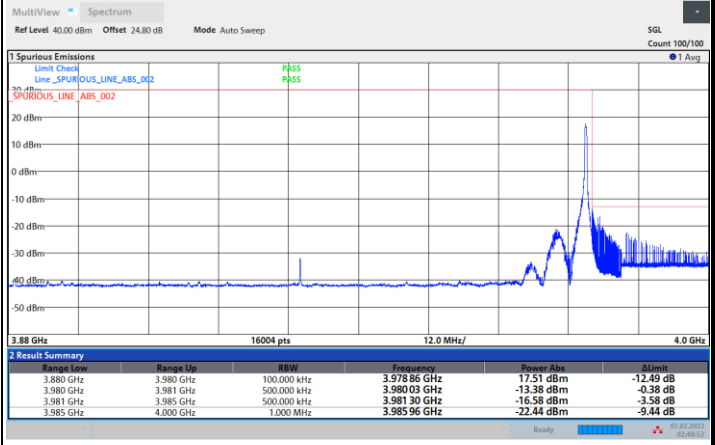
02:43:38 07.02.2022



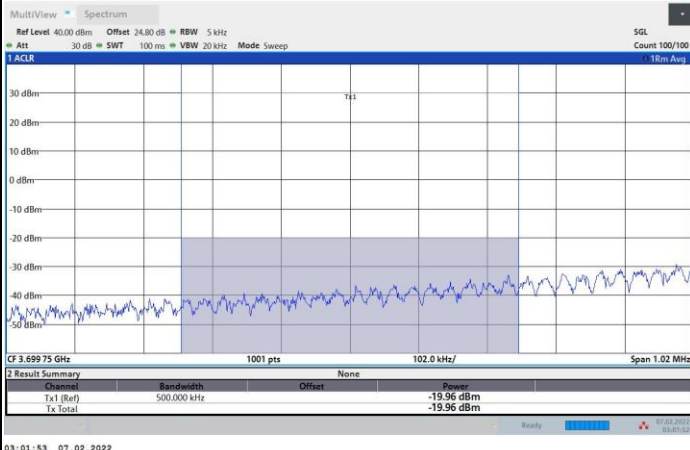
FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel power -13dBm > -19.96dBm (PASS)

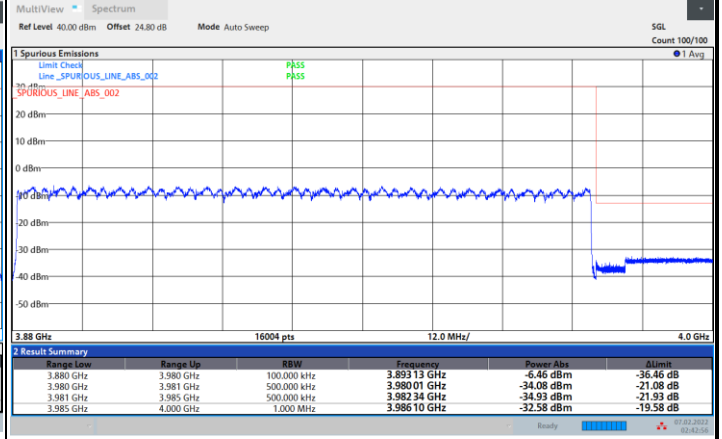
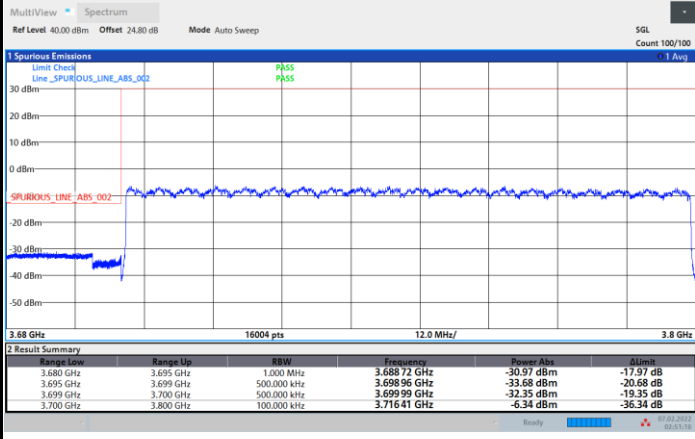




FR1 n77 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB





# Conducted Spurious Emission





Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0031	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =4.20 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.30 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

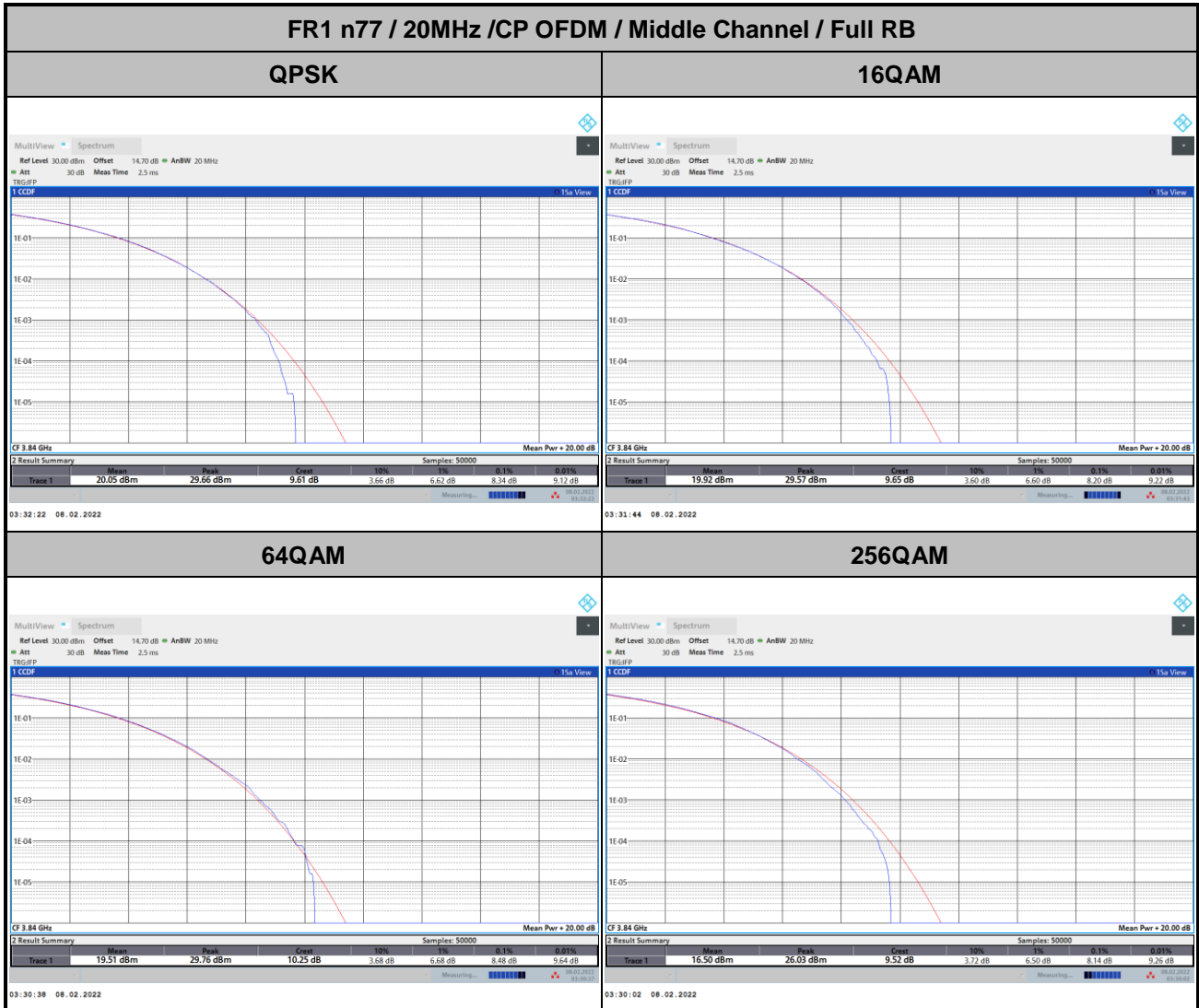




# FR1 n77\_ MIMO Mode ANT6

## 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	8.34	8.20	8.48	8.14	PASS





**26dB Bandwidth**

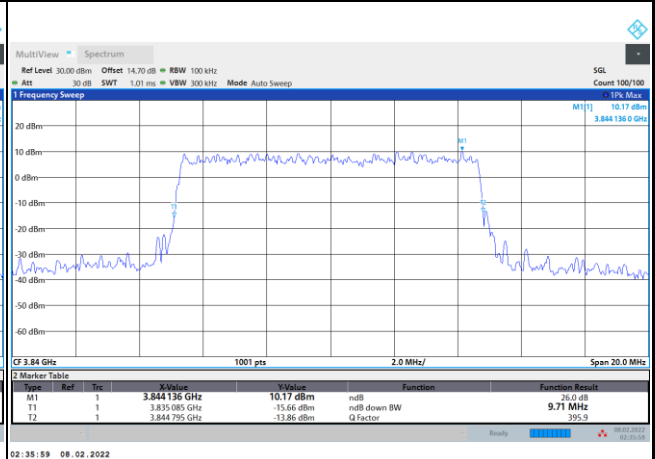
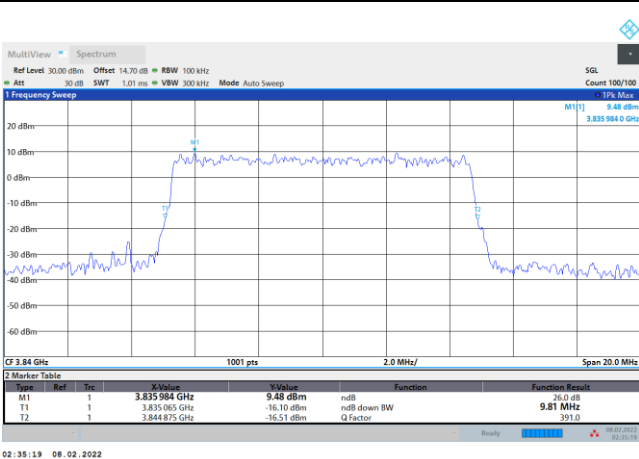
Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.81	9.71	15.02	14.89	19.82	19.82	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.83	9.79	14.93	14.87	19.90	19.82	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	39.72	39.64	50.75	50.75	60.42	60.42
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	39.80	39.80	50.75	50.85	60.66	60.42
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	80.56	80.08	90.45	90.63	100.70	100.50
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	80.24	80.24	90.45	90.63	100.70	100.50



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

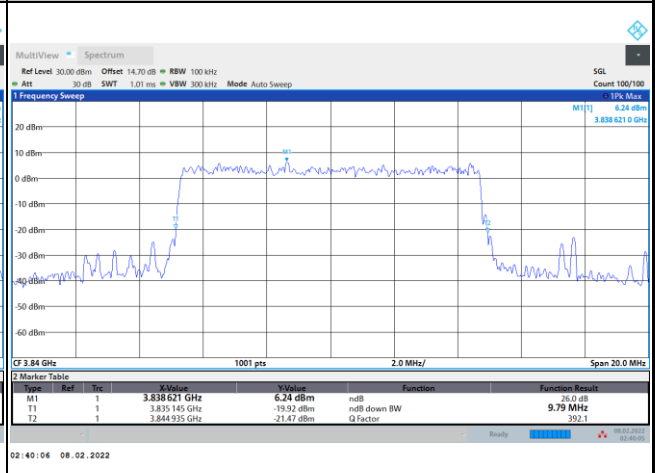
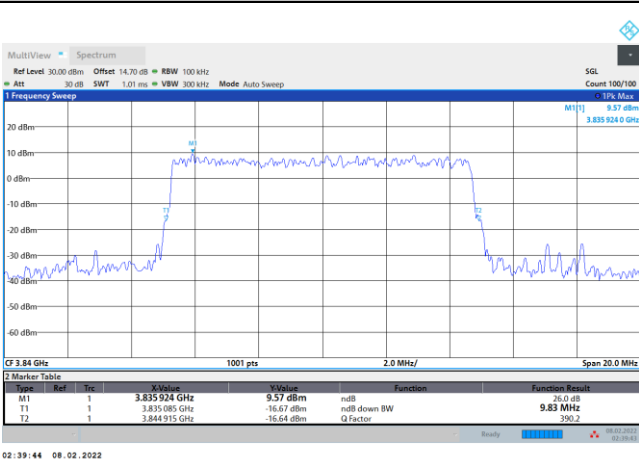
QPSK

16QAM



64QAM

256QAM

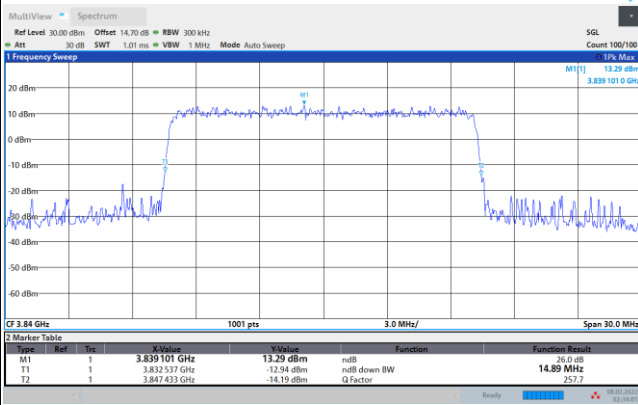
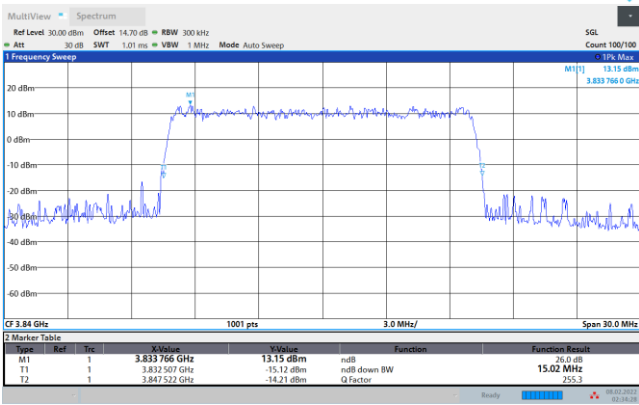




FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

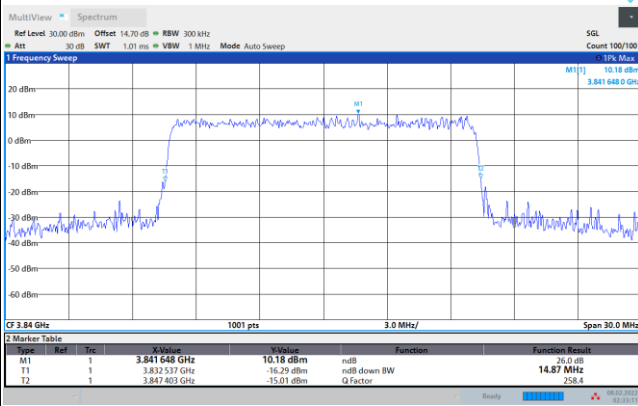
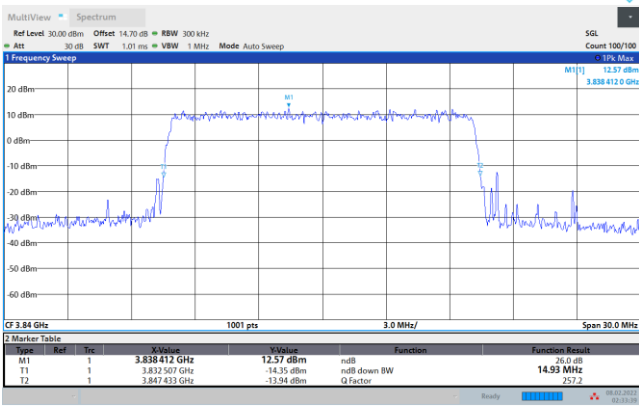
QPSK

16QAM



64QAM

256QAM

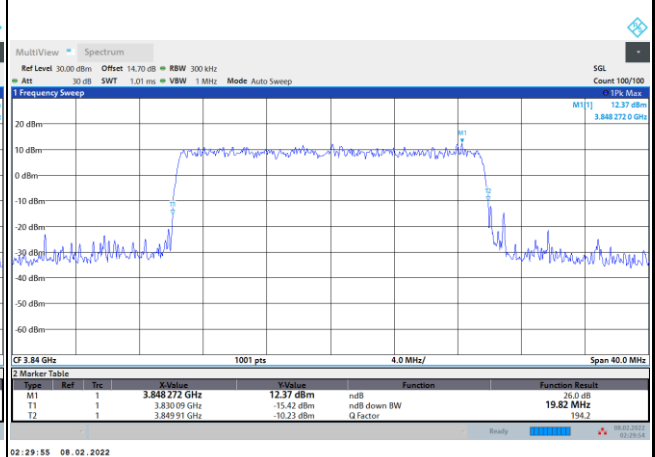
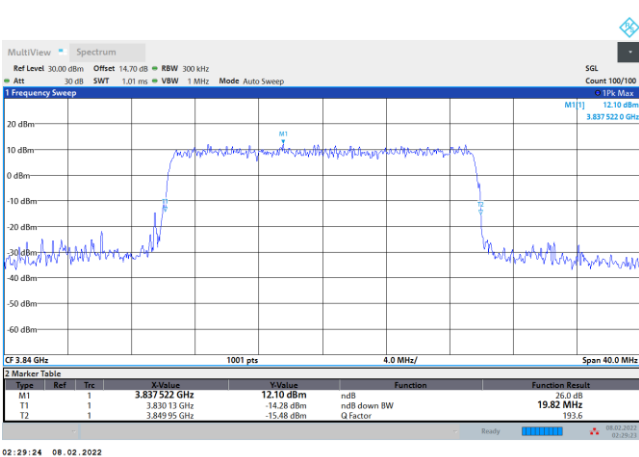




FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

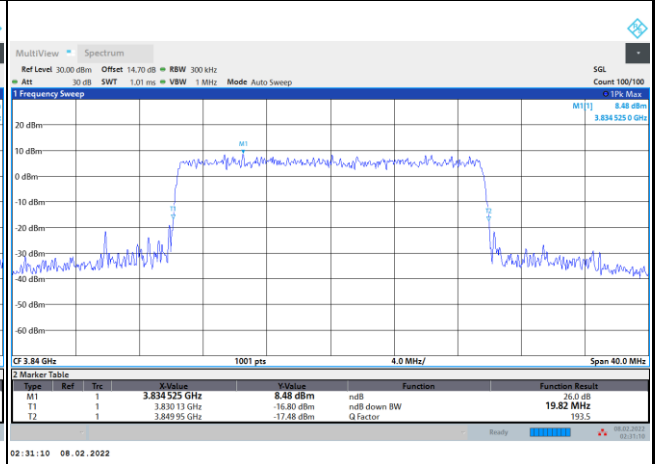
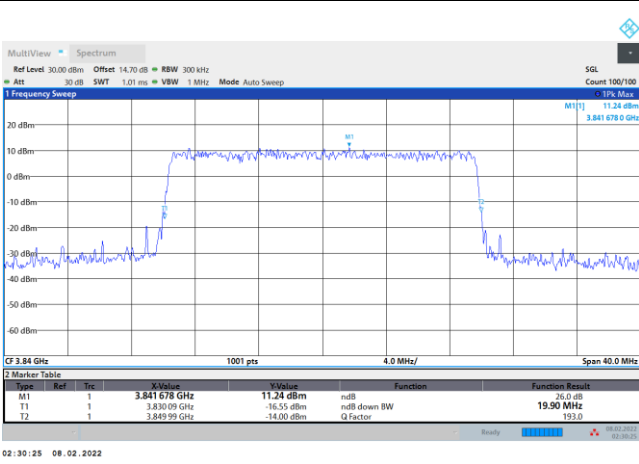
QPSK

16QAM



64QAM

256QAM

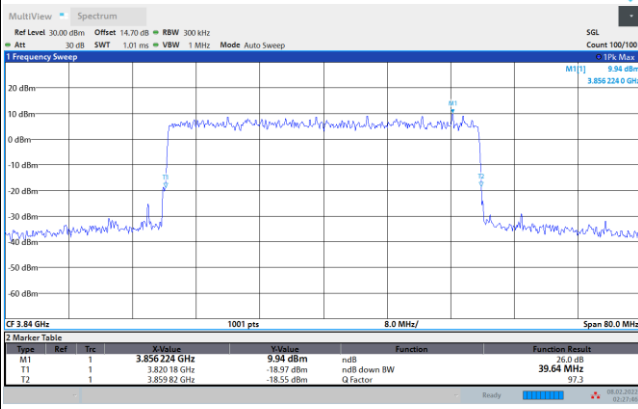
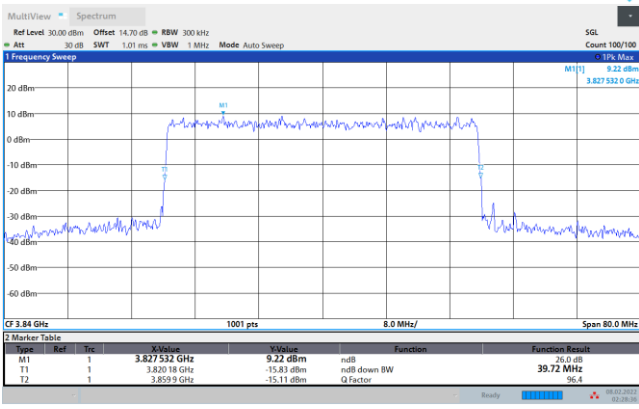




FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

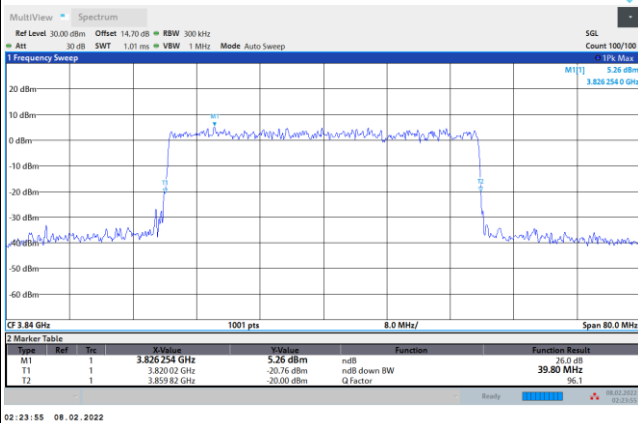
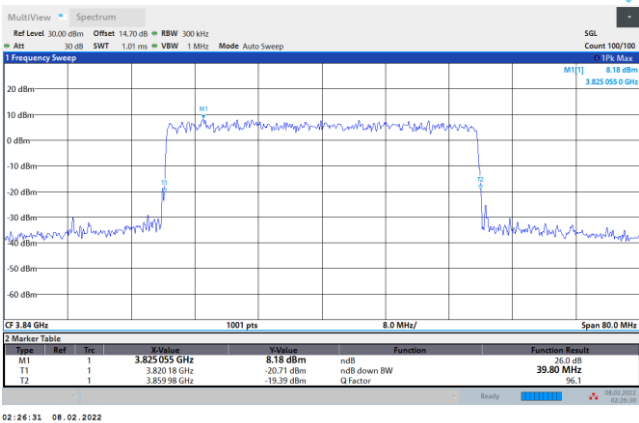
QPSK

16QAM



64QAM

256QAM

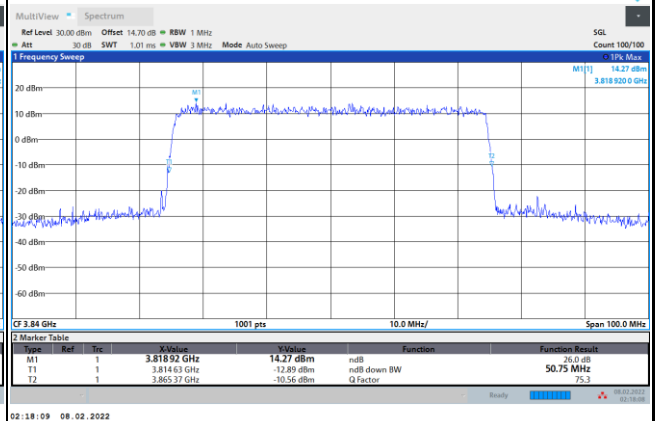
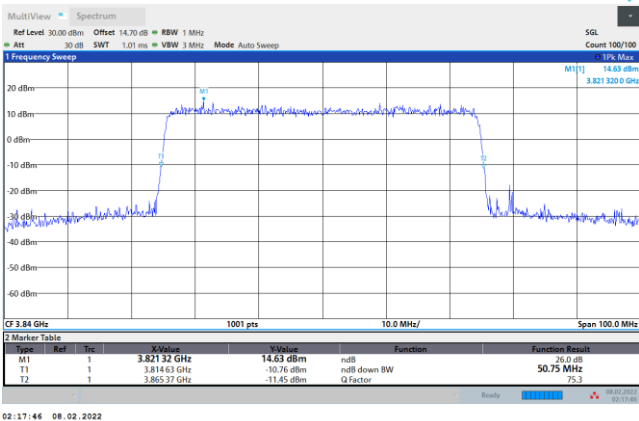




FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM



64QAM

256QAM

