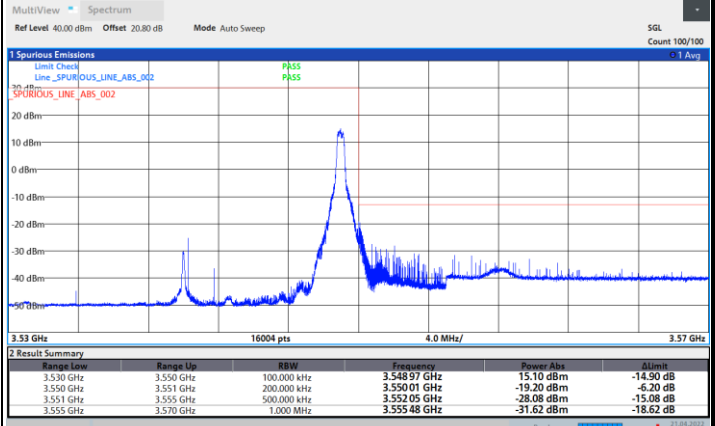
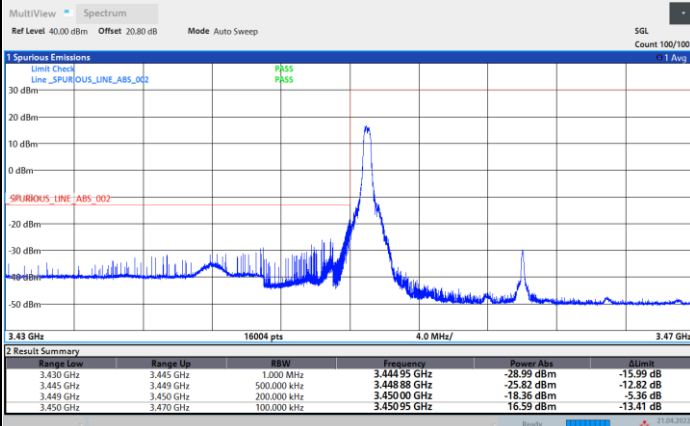




FR1 n77 / 20MHz / DFT-S OFDM / 16QAM

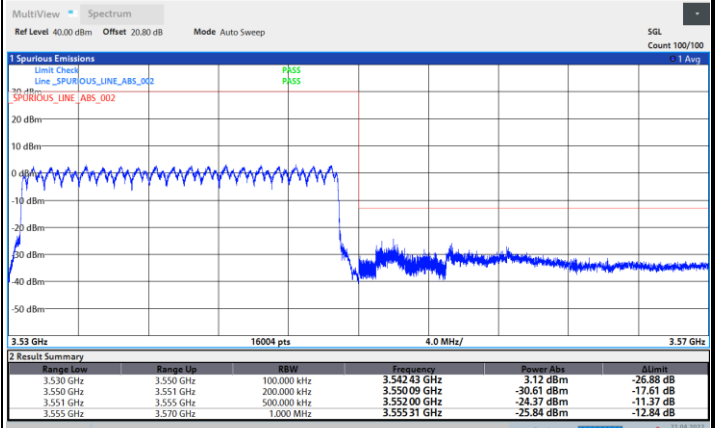
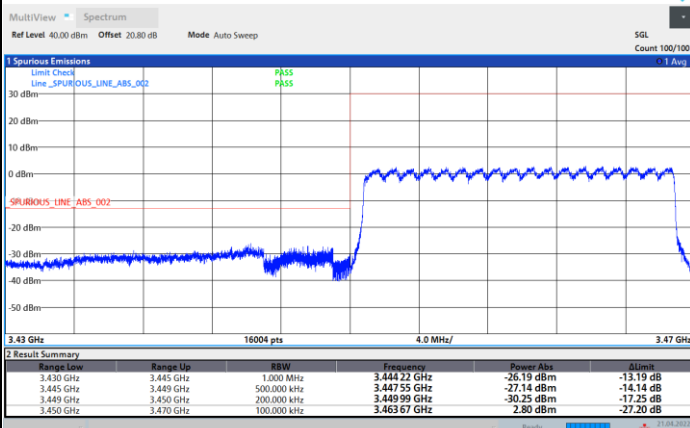
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

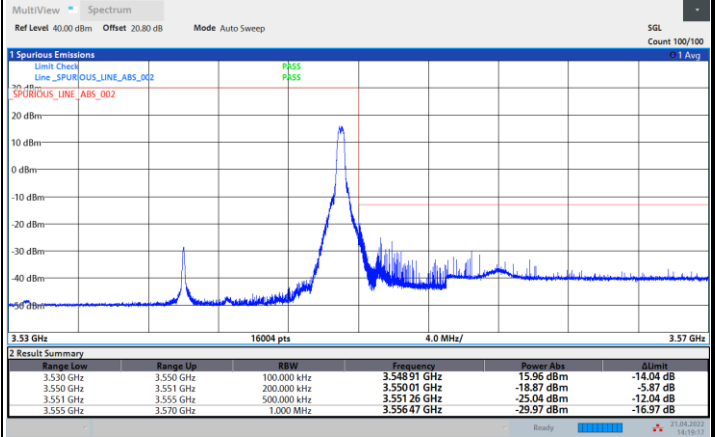
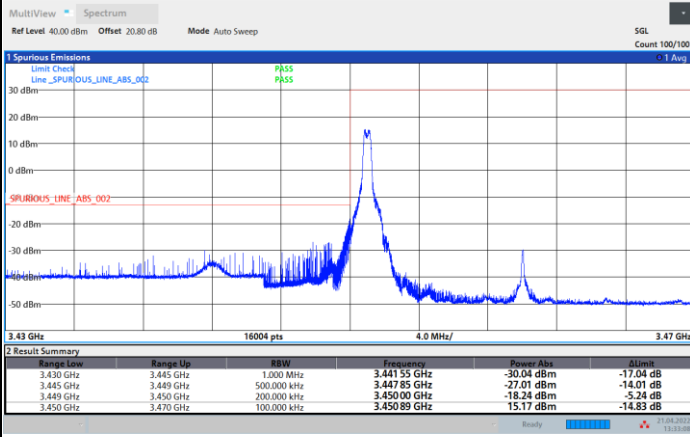




FR1 n77 / 20MHz / DFT-S OFDM / 64QAM

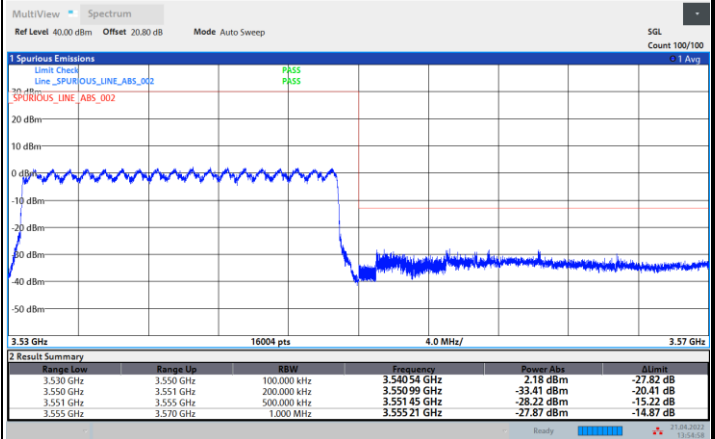
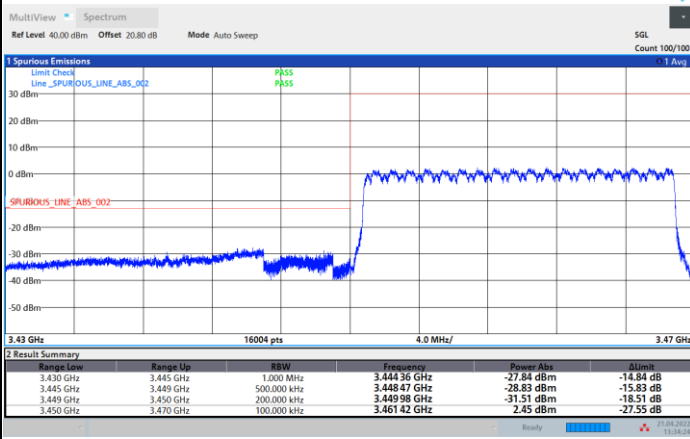
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

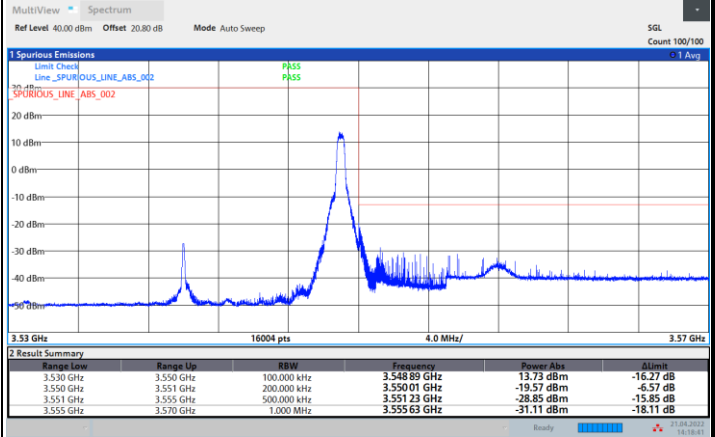
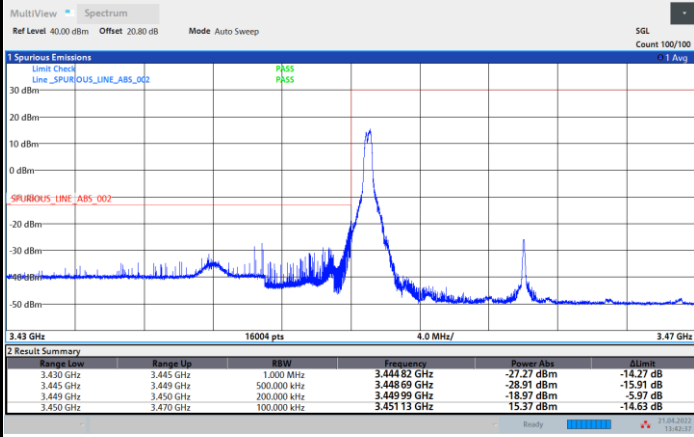




FR1 n77 / 20MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

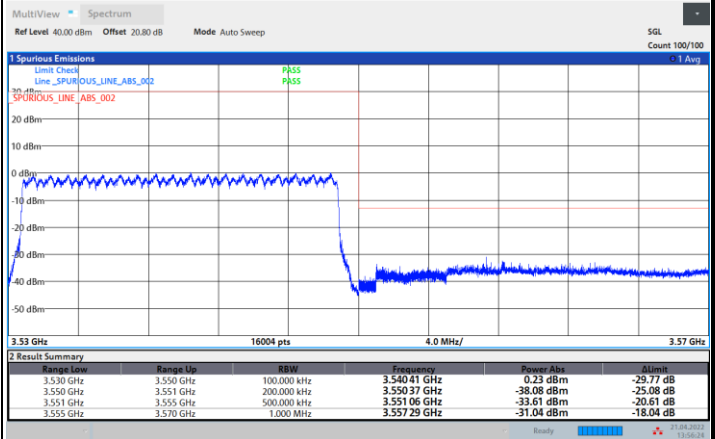
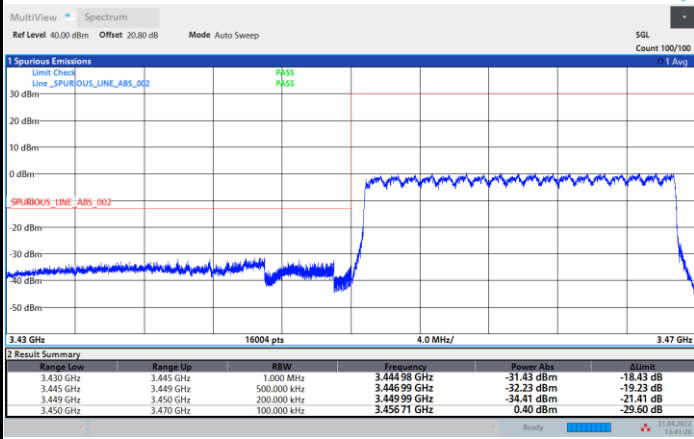


13:42:37 21.04.2022

14:10:41 21.04.2022

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



13:41:26 21.04.2022

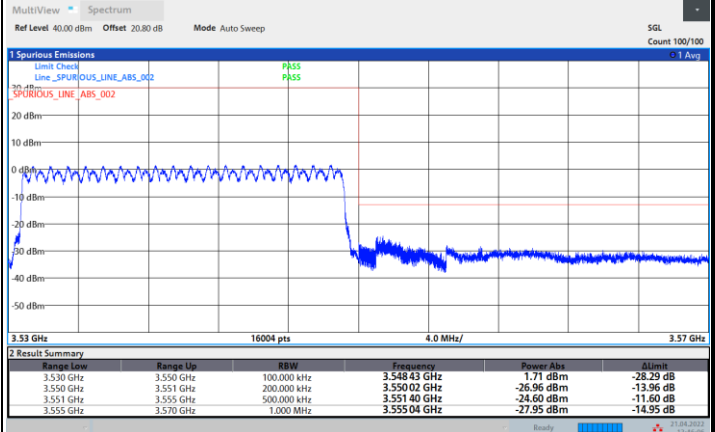
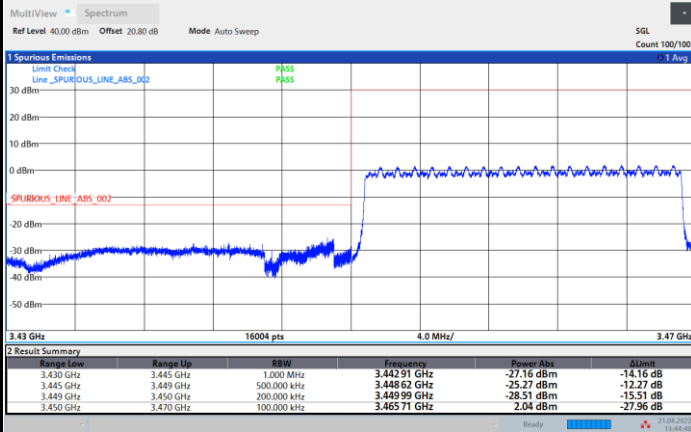
13:56:24 21.04.2022



FR1 n77 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

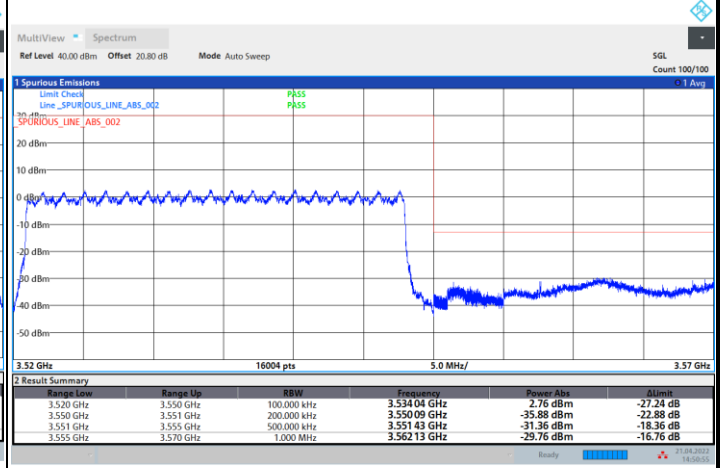
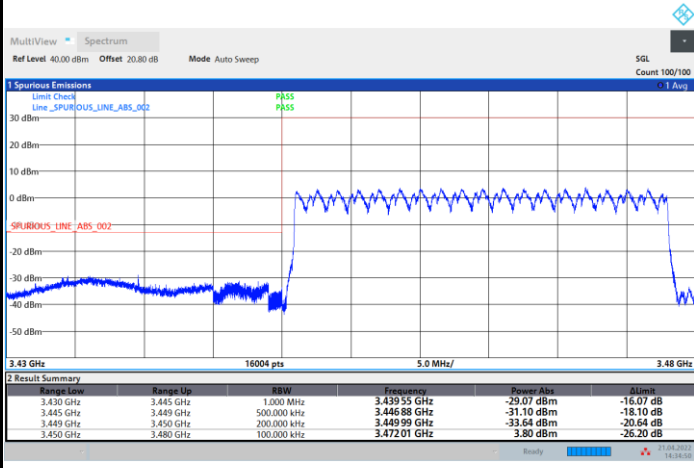




FR1 n77 / 30MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



14:34:51 21.04.2022

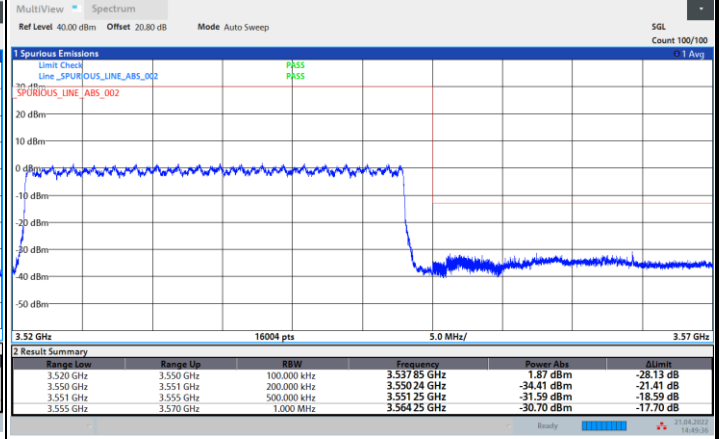
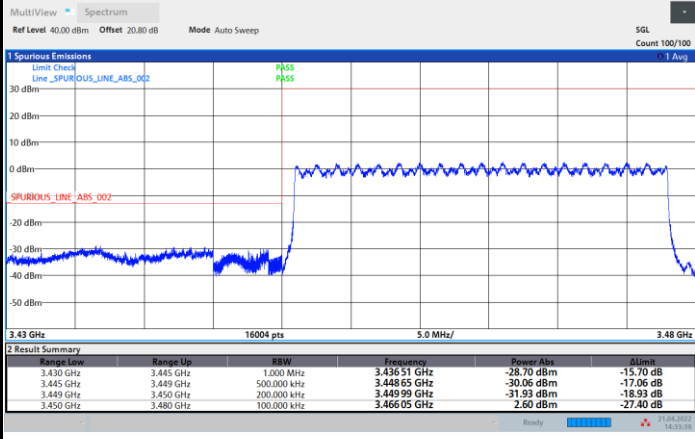
14:50:56 21.04.2022



FR1 n77 / 30MHz / DFT-S OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

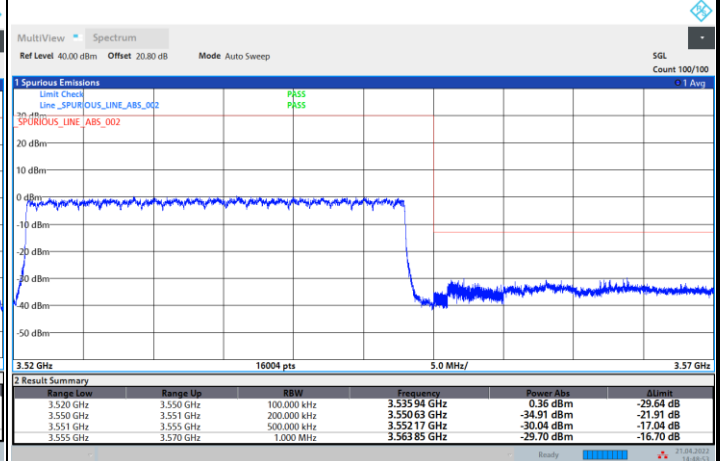
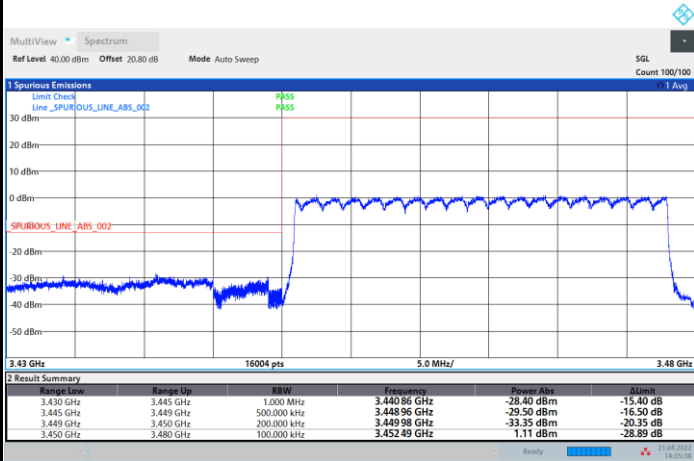




FR1 n77 / 30MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge

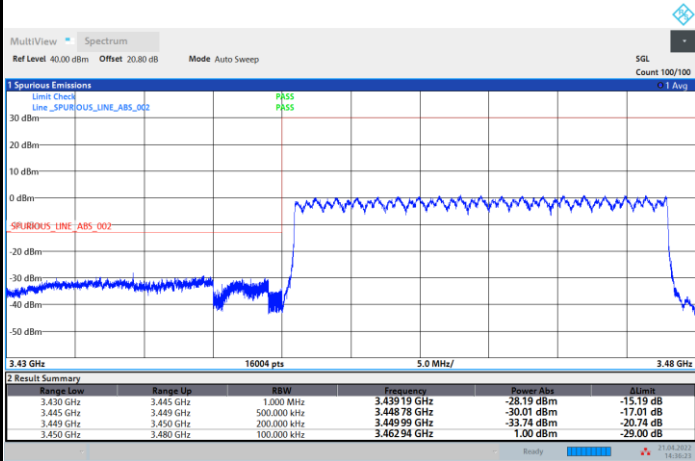




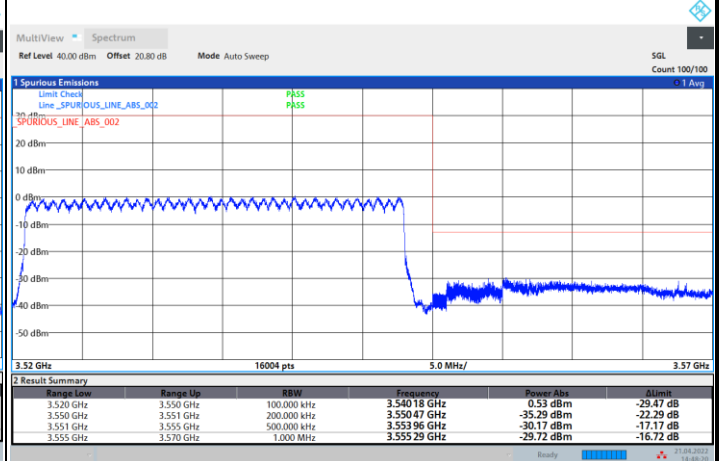
FR1 n77 / 30MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



14:36:23 21.04.2022



14:48:21 21.04.2022

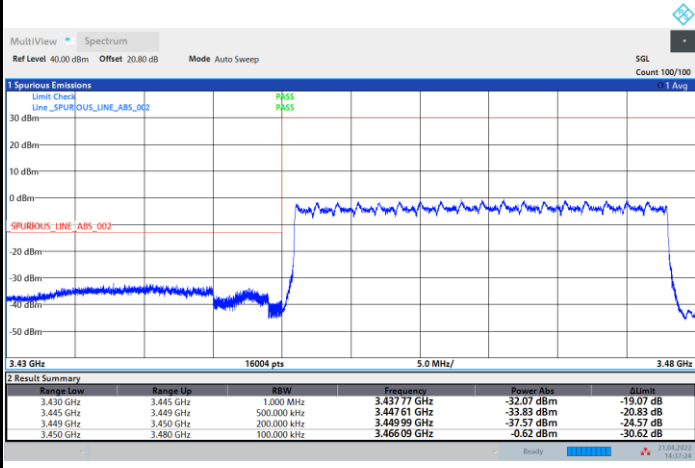




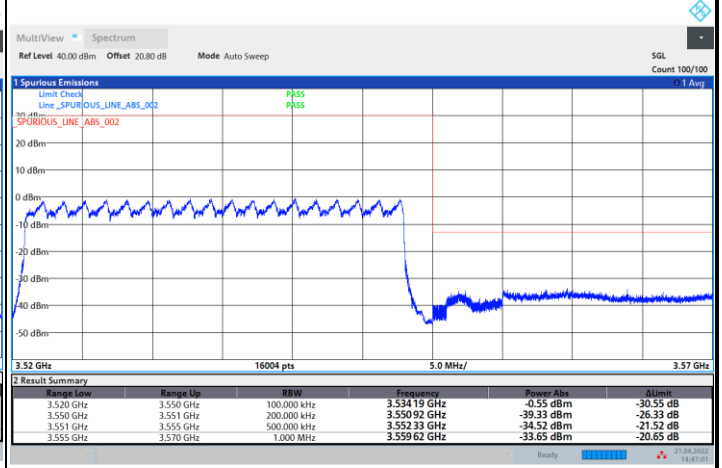
FR1 n77 / 30MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



14:37:24 21.04.2022



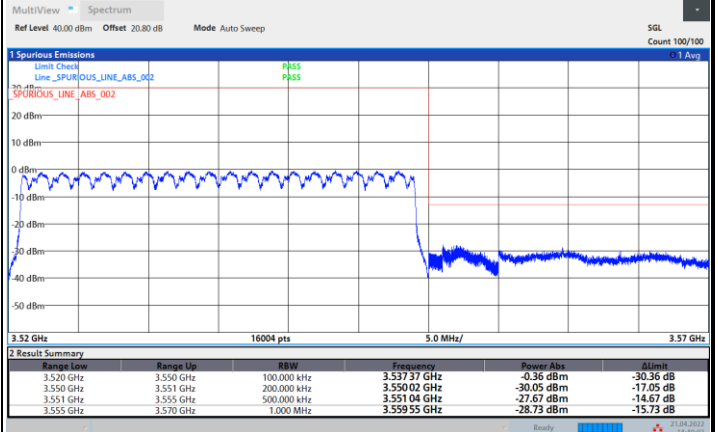
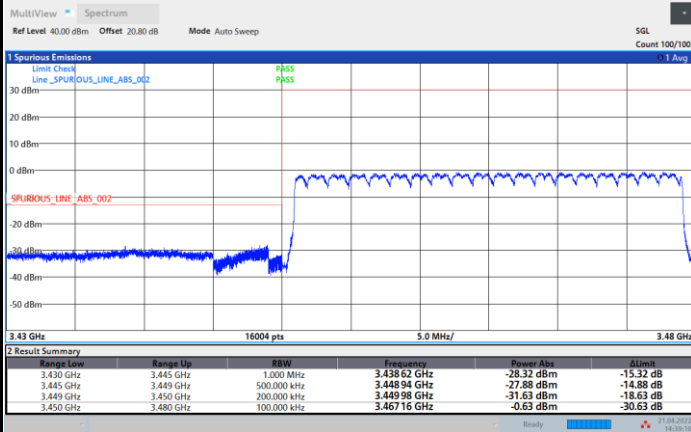
14:47:01 21.04.2022



FR1 n77 / 30MHz / CP OFDM / QPSK / Full RB

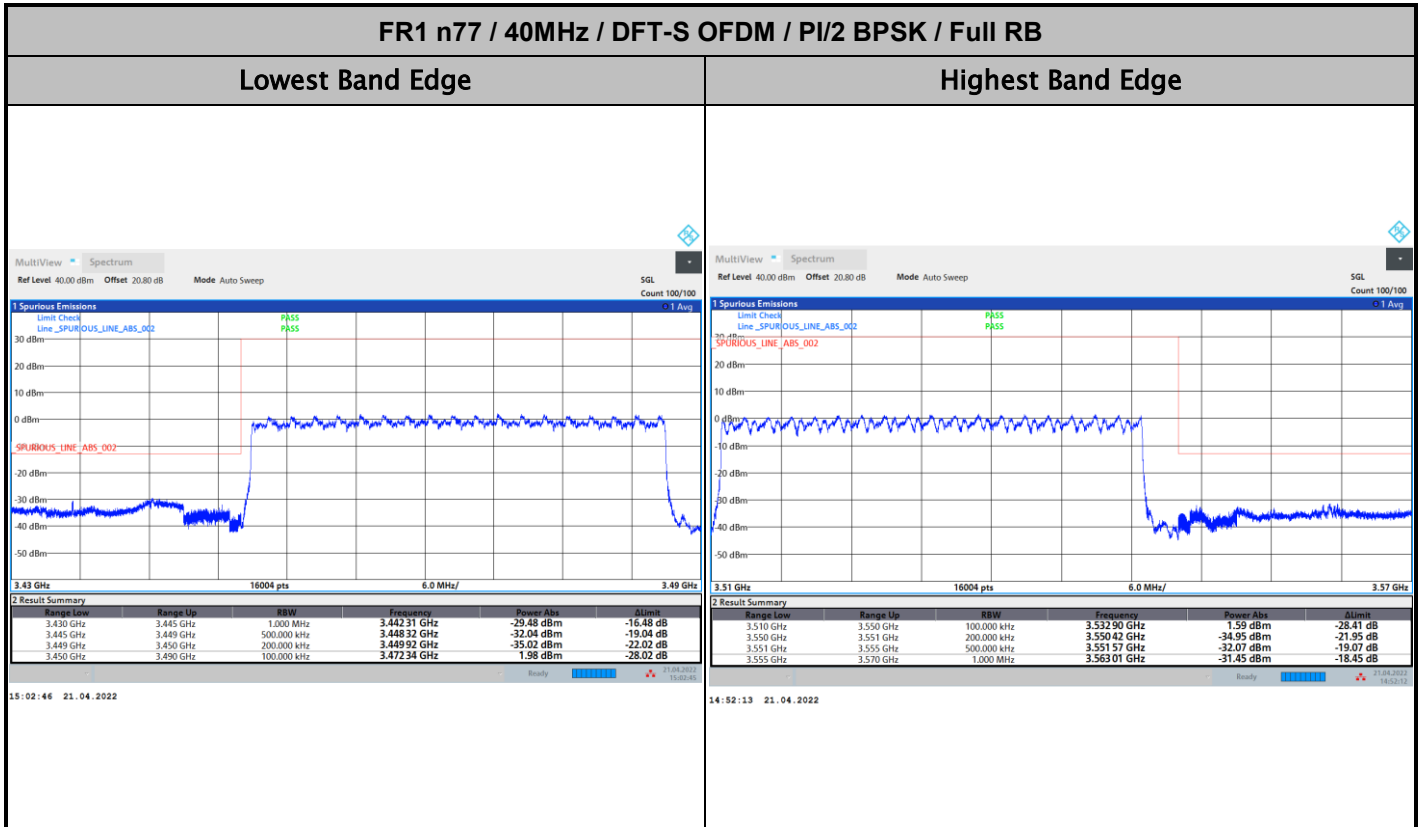
Lowest Band Edge

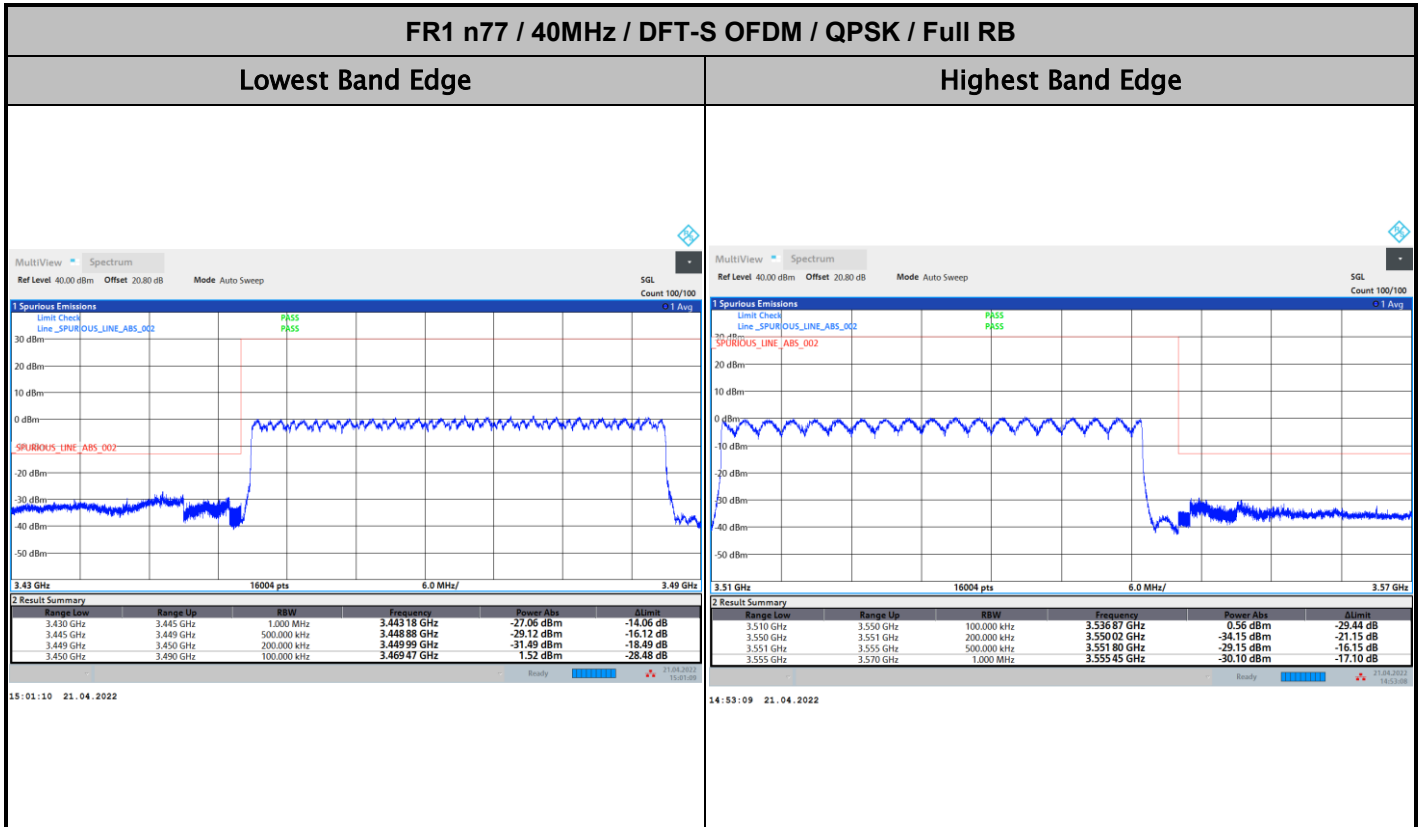
Highest Band Edge



14:39:11 21.04.2022

14:40:03 21.04.2022



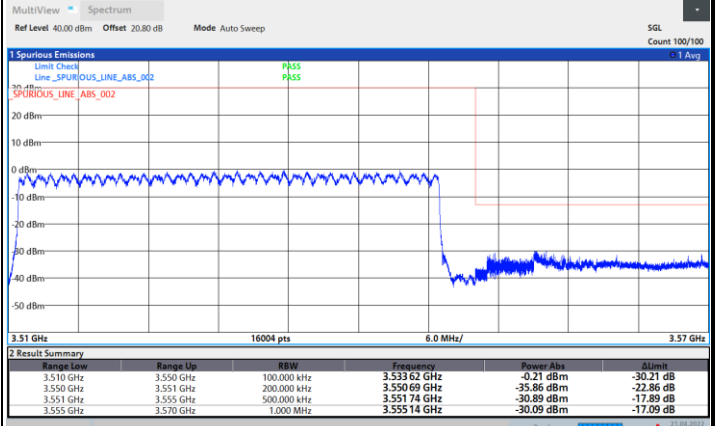
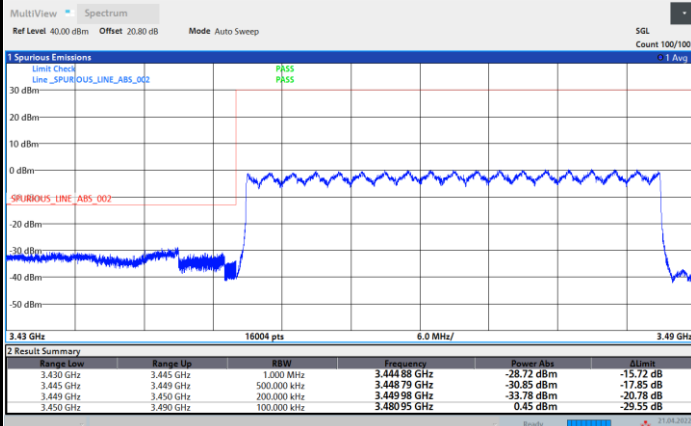




FR1 n77 / 40MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



14:59:53 21.04.2022

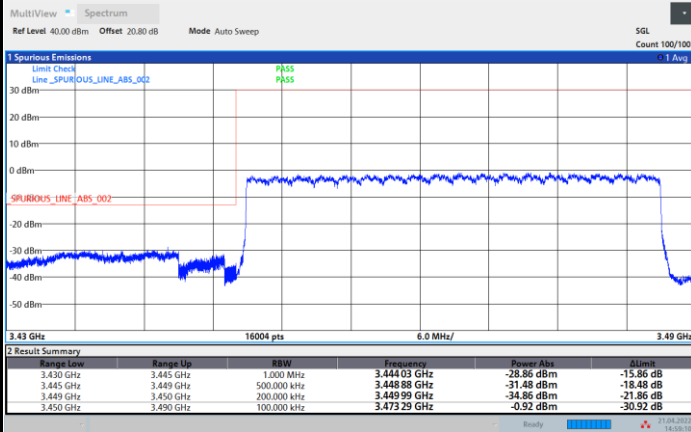
14:54:02 21.04.2022



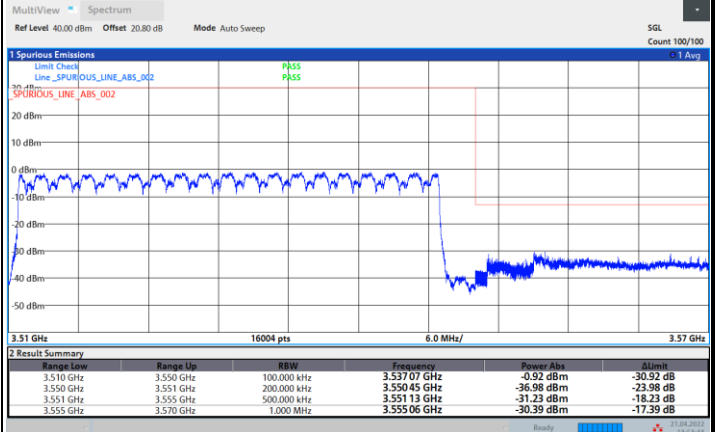
FR1 n77 / 40MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



14:59:11 21. 04. 2022



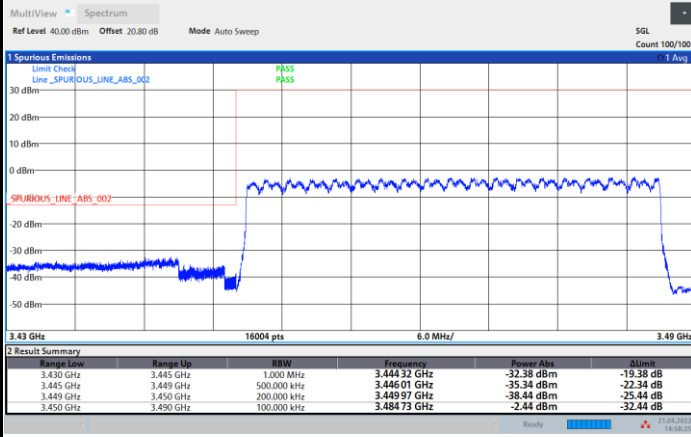
14:54:44 21. 04. 2022



FR1 n77 / 40MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

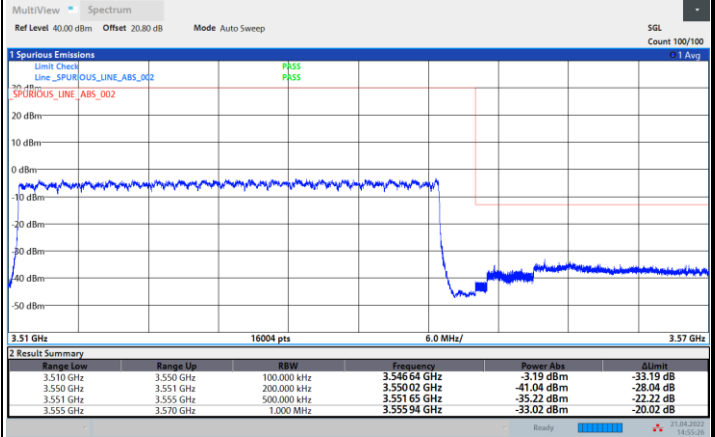
Highest Band Edge



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.444 32 GHz	-32.38 dBm	-19.38 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.446 01 GHz	-35.34 dBm	-22.34 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.449 97 GHz	-38.44 dBm	-25.44 dB
3.450 GHz	3.490 GHz	100.000 kHz	3.484 73 GHz	-2.44 dBm	-32.44 dB

14:58:26 21.04.2022



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.510 GHz	3.550 GHz	100.000 kHz	3.546 64 GHz	-3.19 dBm	-33.19 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.550 02 GHz	-41.04 dBm	-28.04 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.551 65 GHz	-35.22 dBm	-22.22 dB
3.555 GHz	3.570 GHz	1.000 MHz	3.555 94 GHz	-33.02 dBm	-20.02 dB

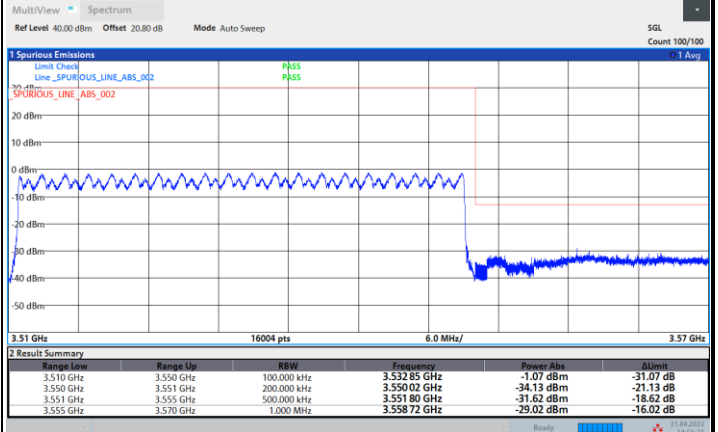
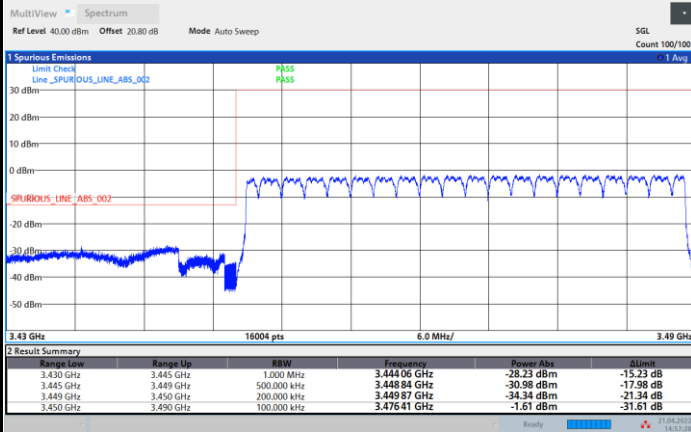
14:55:26 21.04.2022



FR1 n77 / 40MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



14:57:28 21.04.2022

14:56:22 21.04.2022

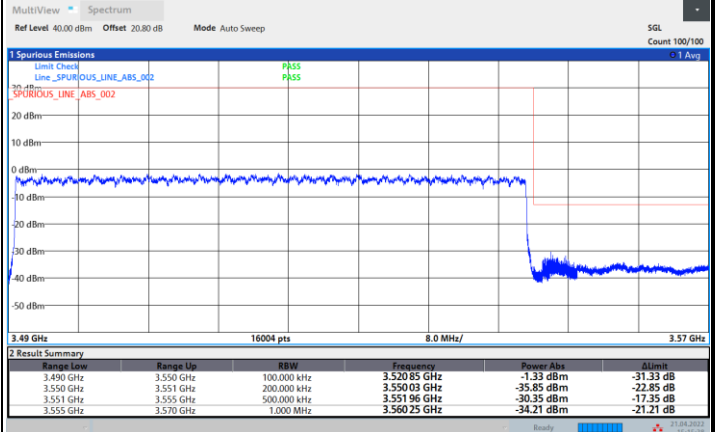
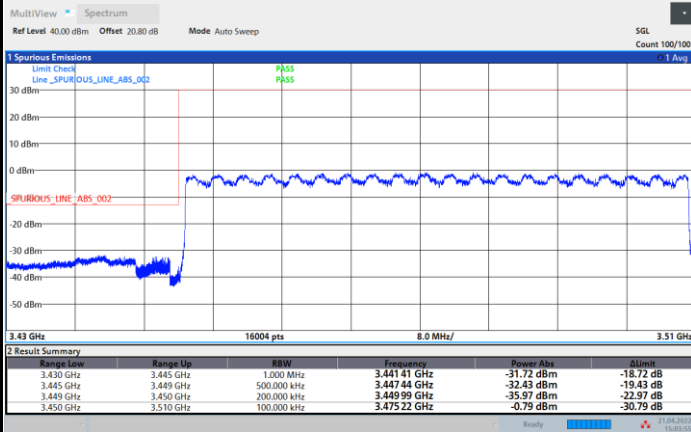




FR1 n77 / 60MHz / DFT-S OFDM / PI/2 BPSK / Full RB

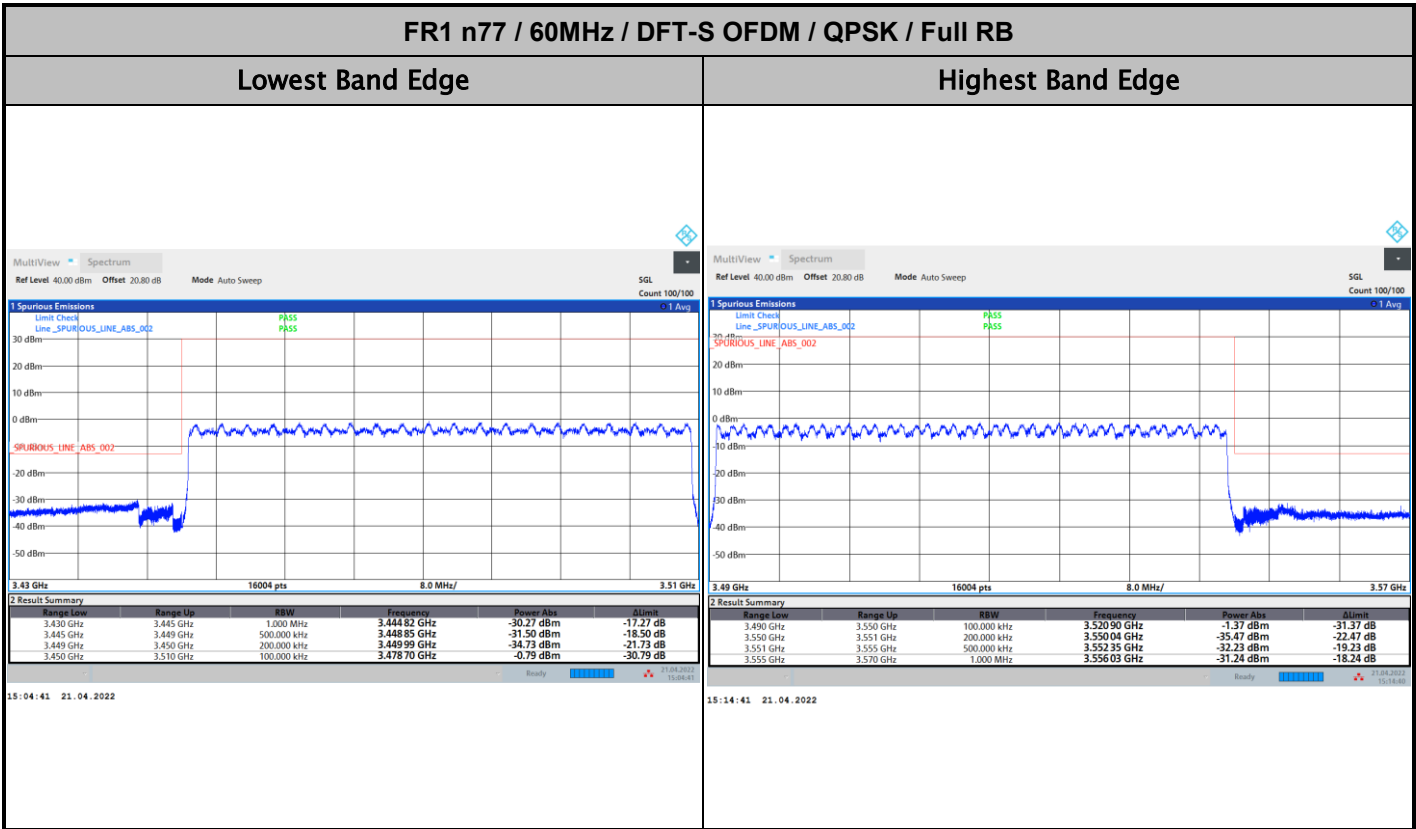
Lowest Band Edge

Highest Band Edge



15:03:56 21.04.2022

15:15:39 21.04.2022

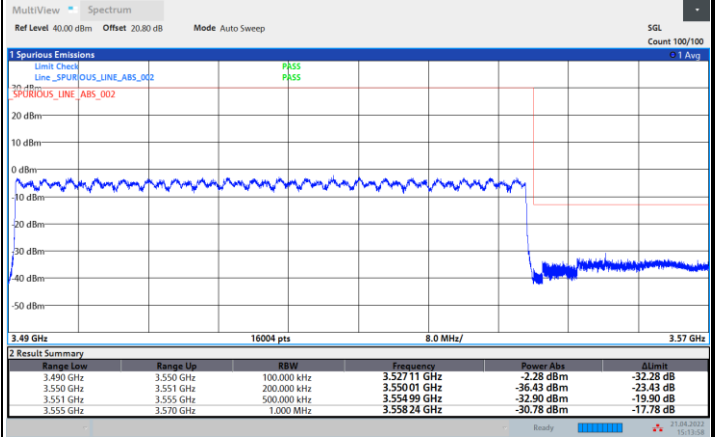
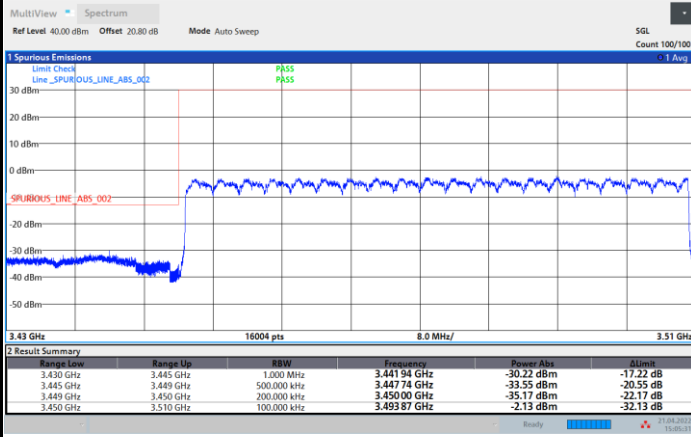




FR1 n77 / 60MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge



15:09:31 21.04.2022

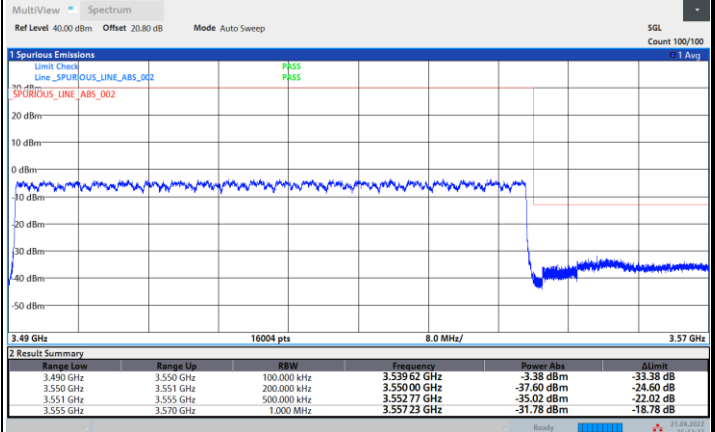
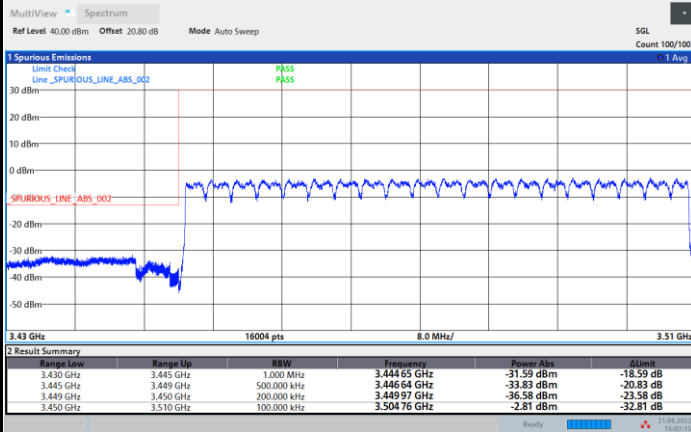
15:13:58 21.04.2022



FR1 n77 / 60MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



15:07:15 21.04.2022

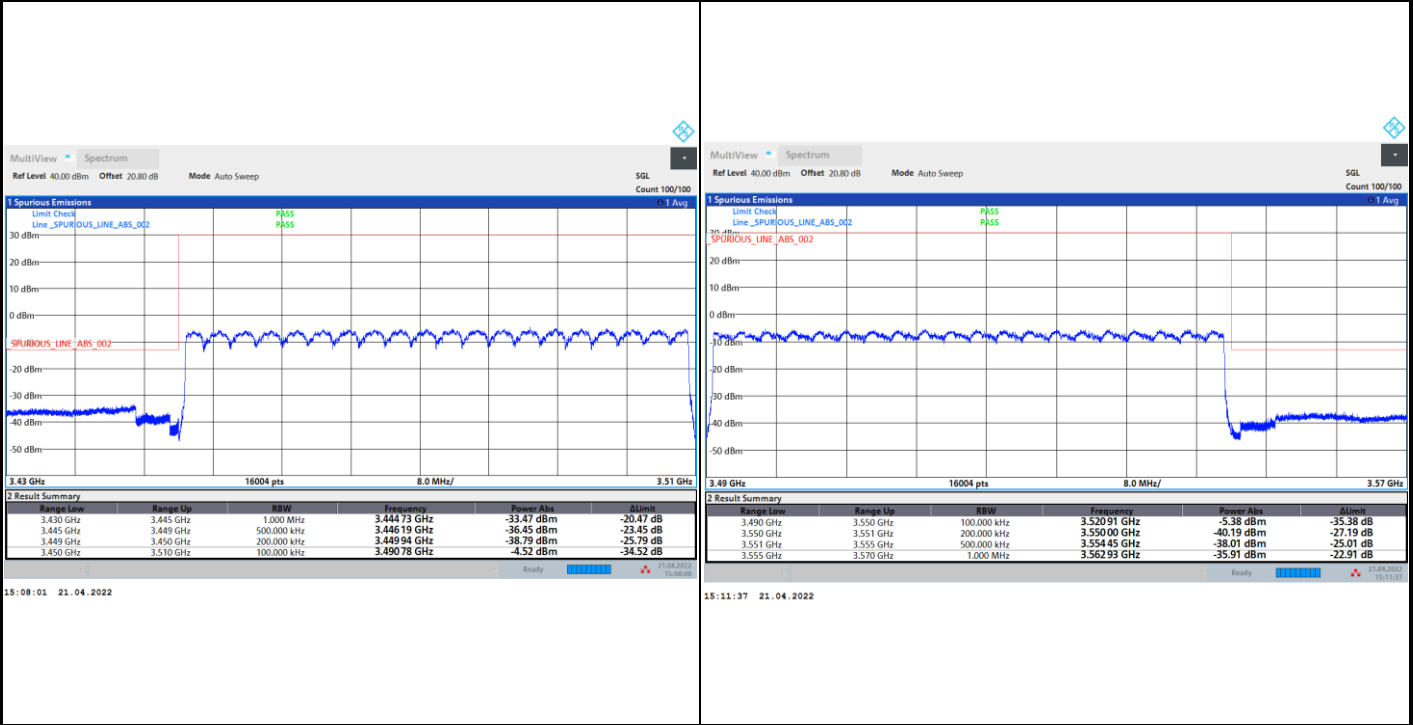
15:12:28 21.04.2022



FR1 n77 / 60MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge

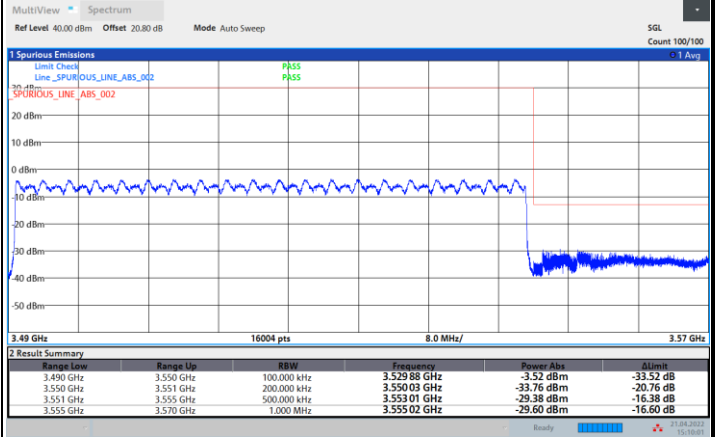
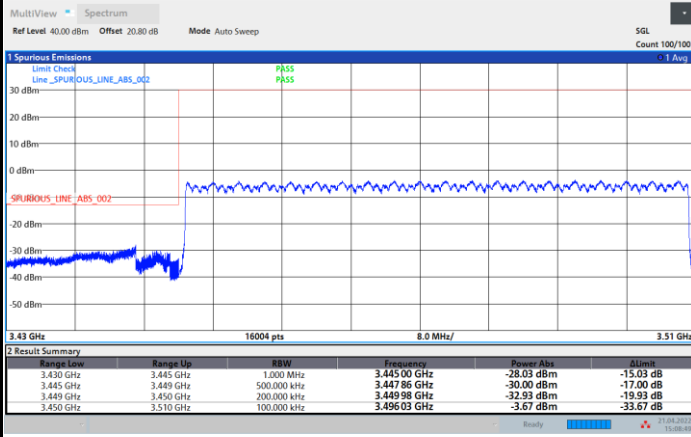




FR1 n77 / 60MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



15:08:50 21.04.2022

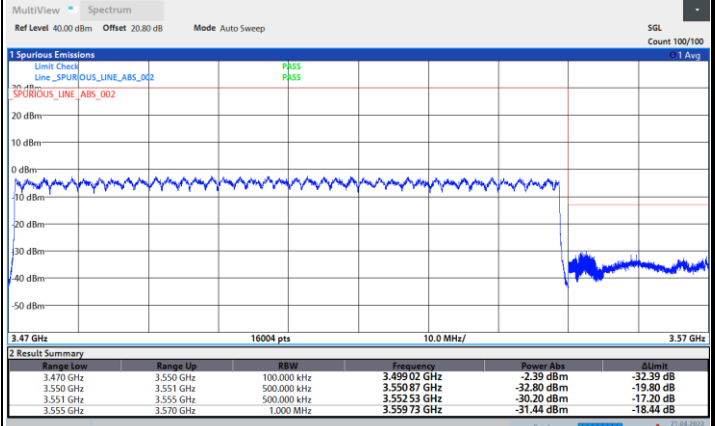
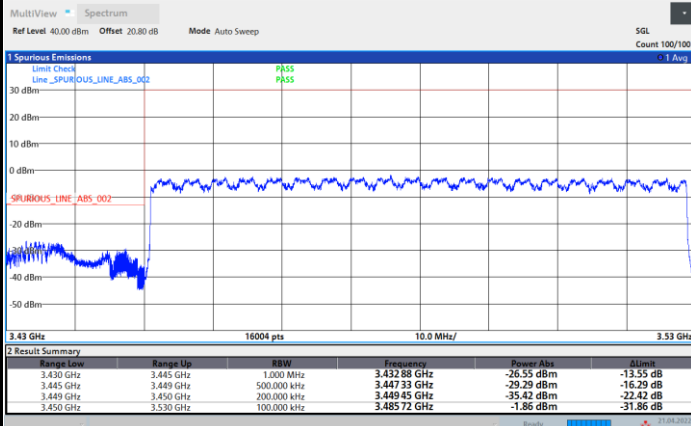
15:10:02 21.04.2022



FR1 n77 / 80MHz / DFT-S OFDM / PI/2 BPSK / Full RB

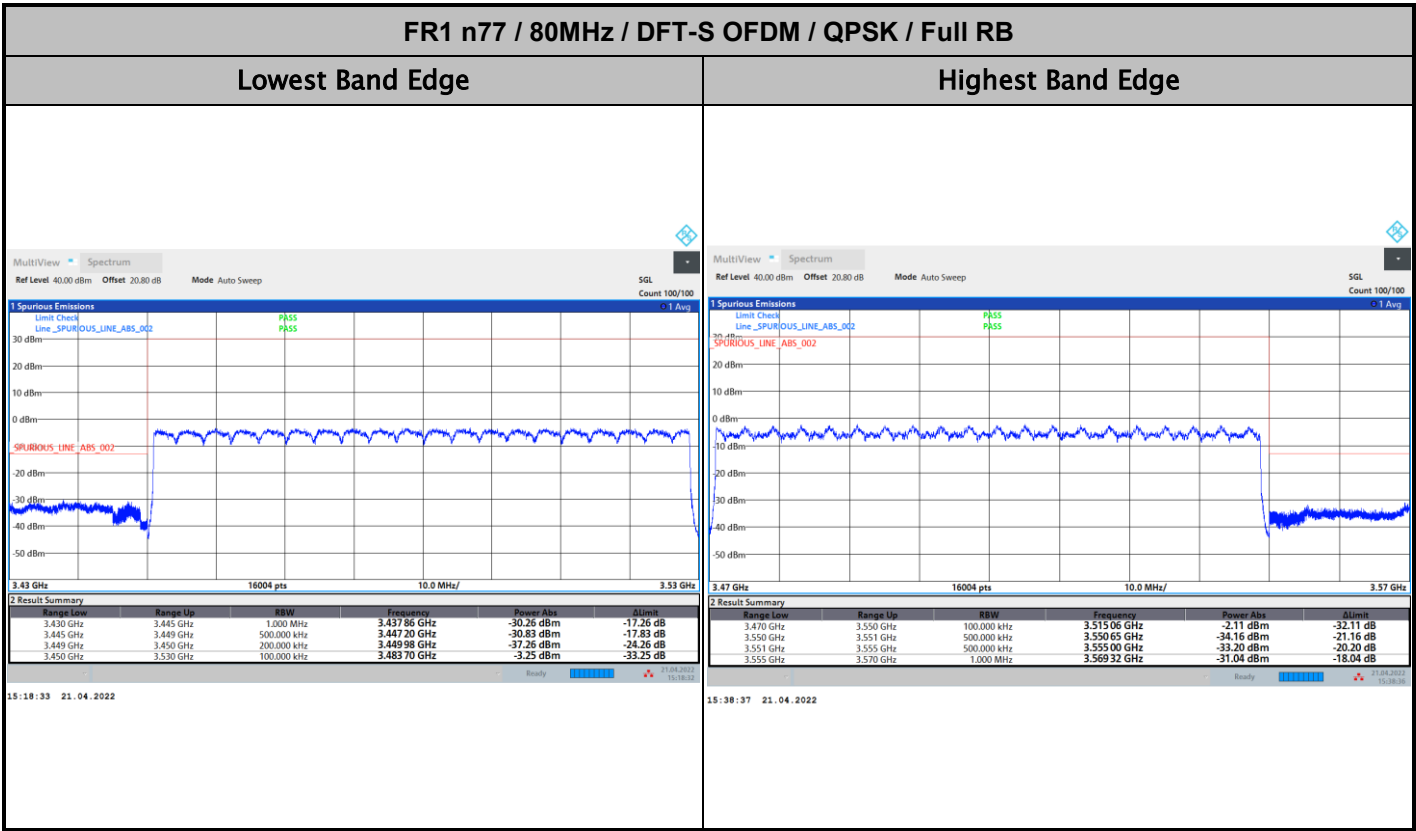
Lowest Band Edge

Highest Band Edge



15:17:46 21.04.2022

15:37:52 21.04.2022



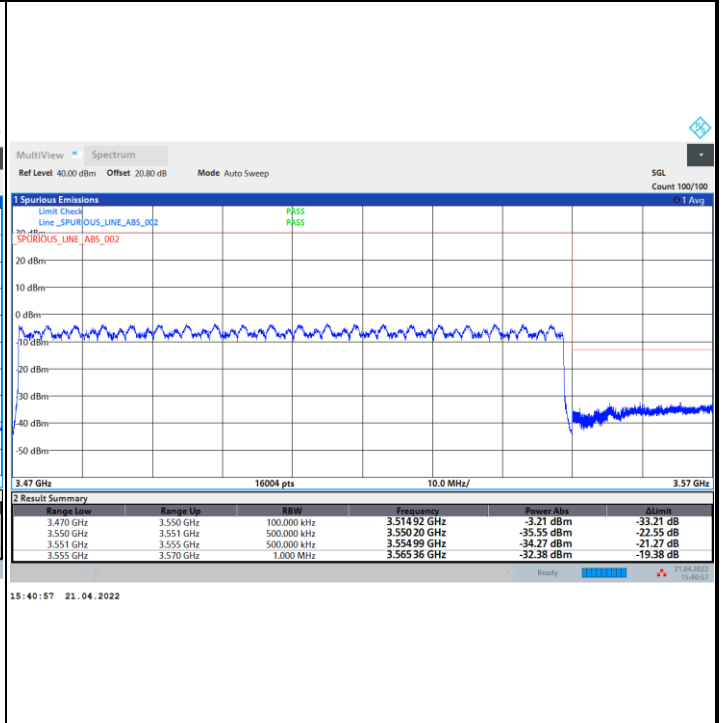




FR1 n77 / 80MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge

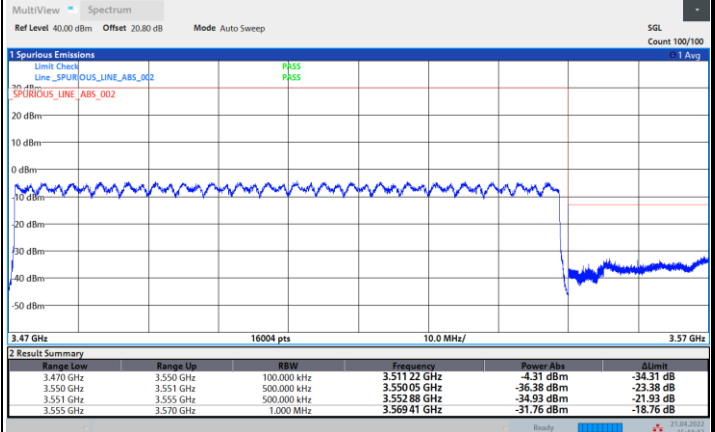
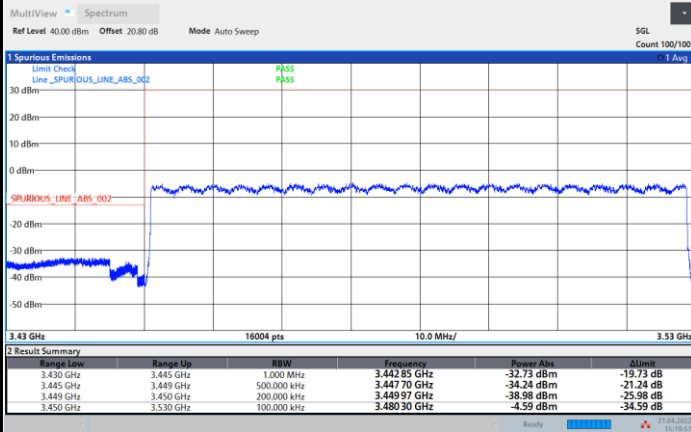




FR1 n77 / 80MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



15:19:57 21.04.2022

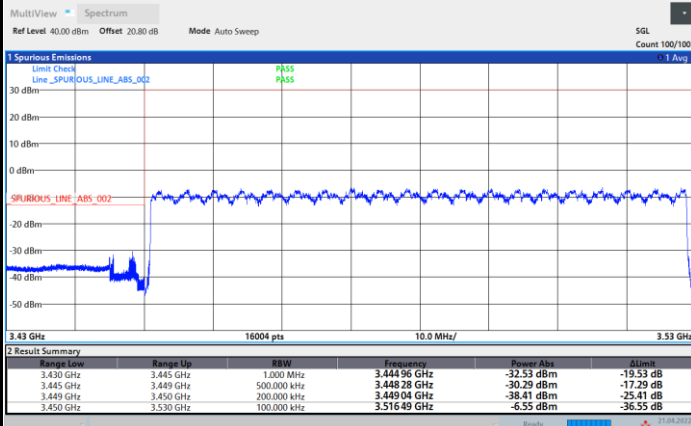
15:44:42 21.04.2022



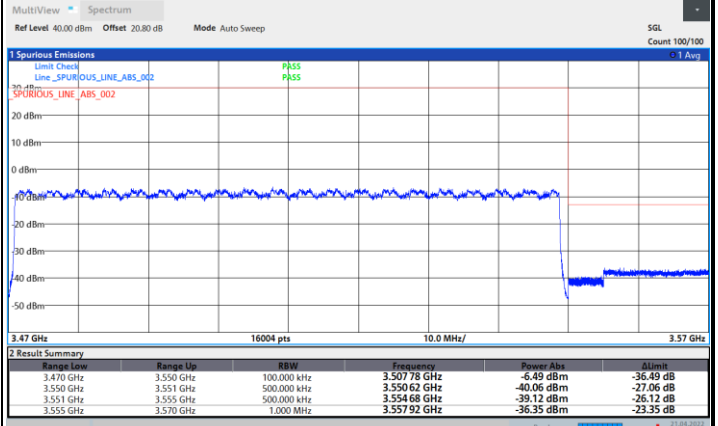
FR1 n77 / 80MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge

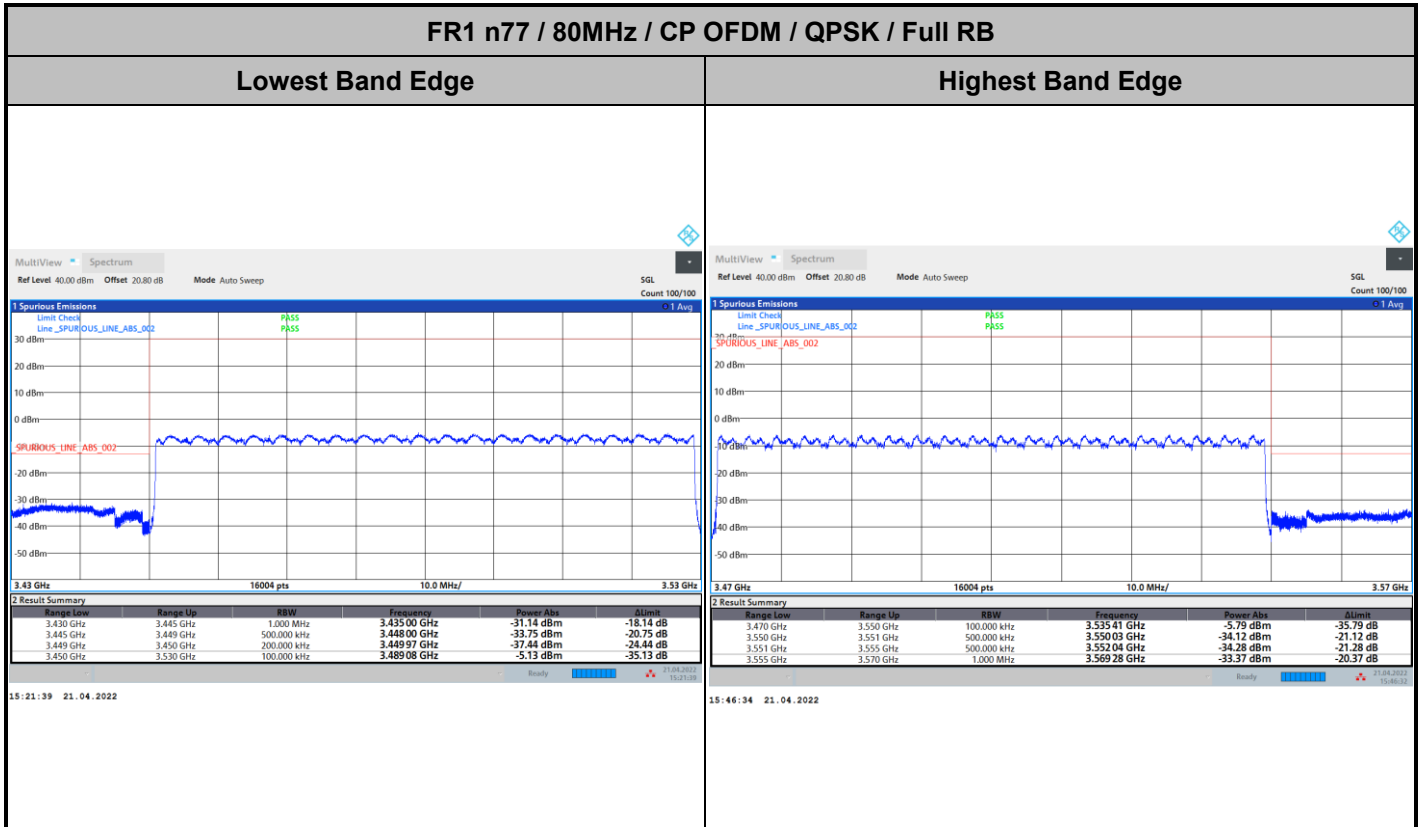
Highest Band Edge



15:20:48 21.04.2022



15:45:45 21.04.2022

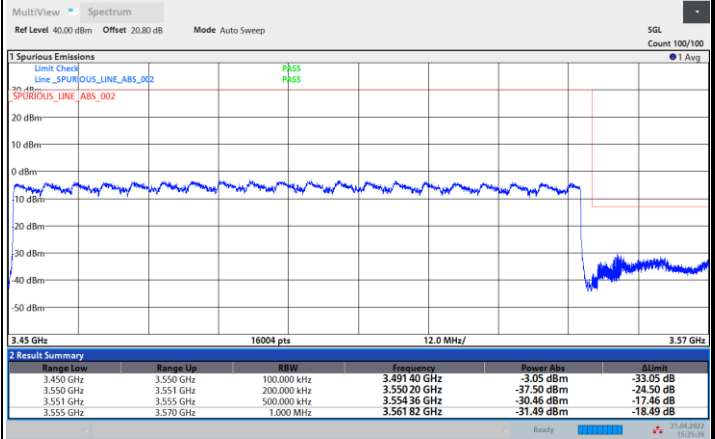
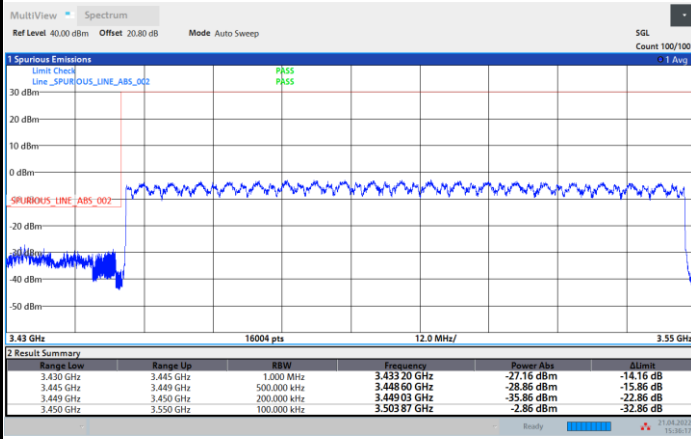


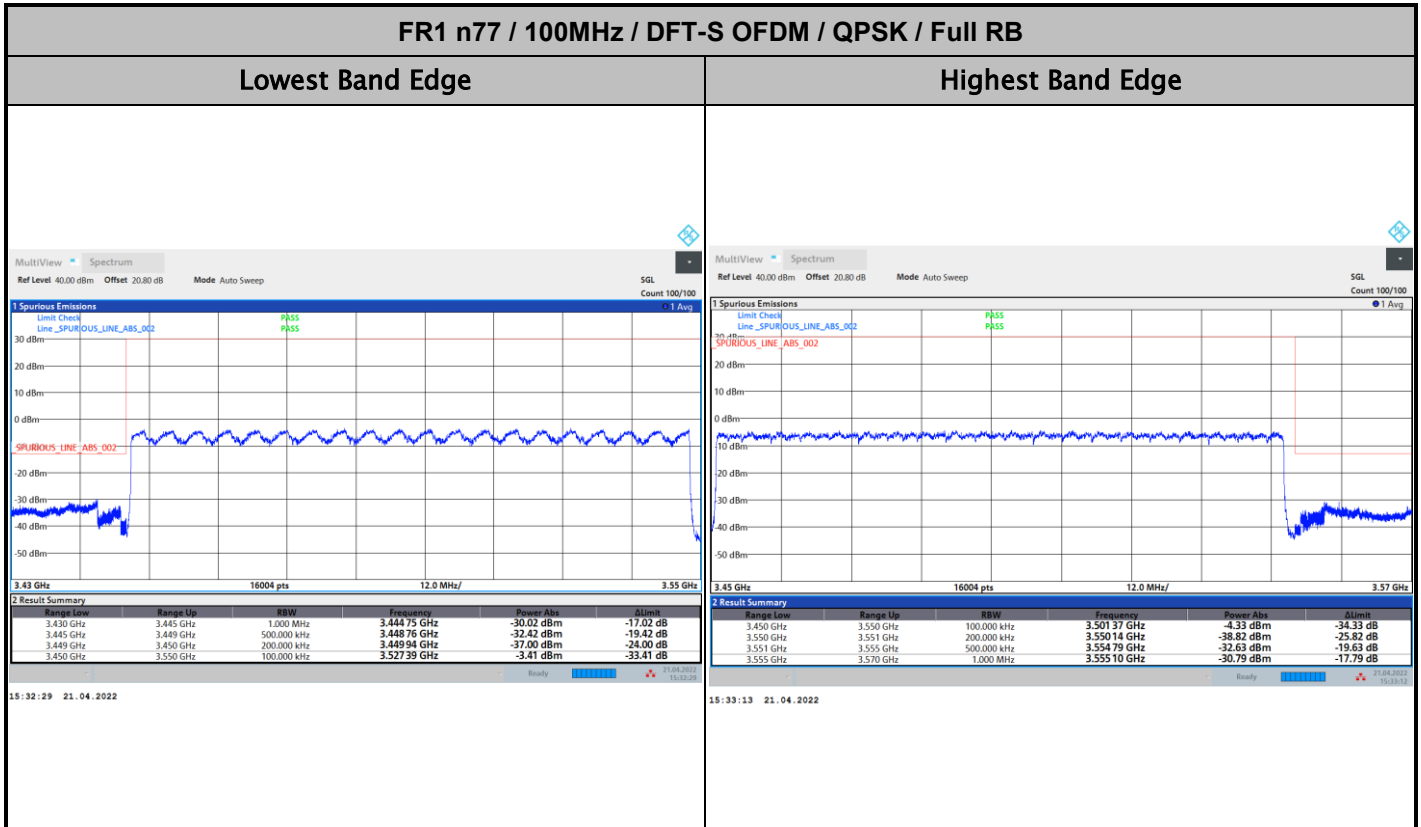


FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



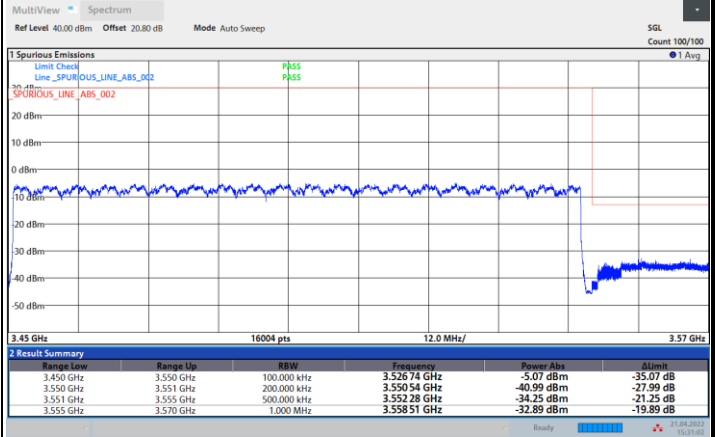
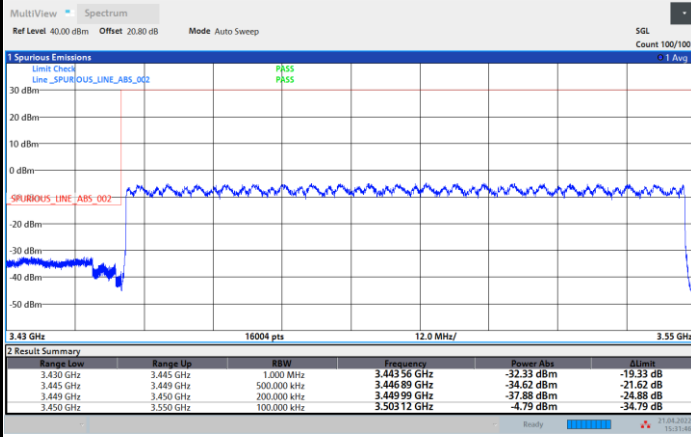




FR1 n77 / 100MHz / DFT-S OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge

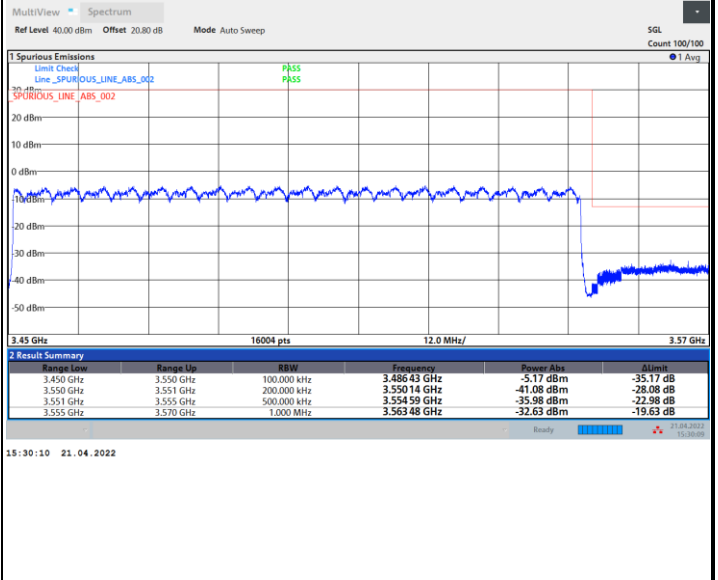
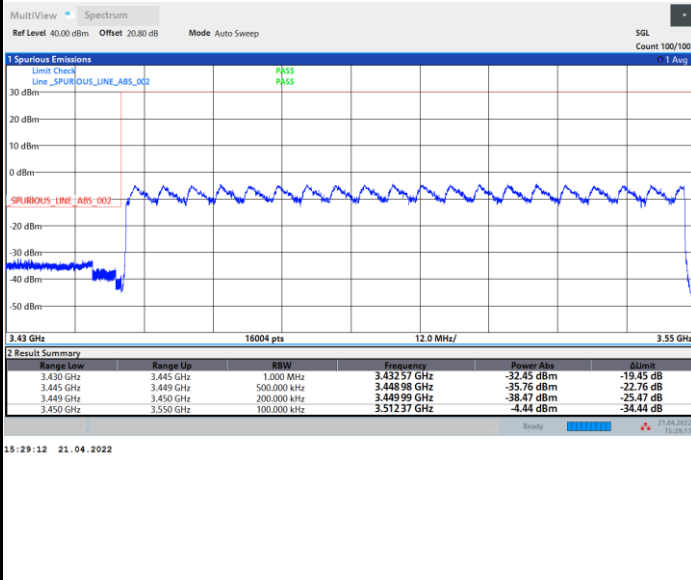




FR1 n77 / 100MHz / DFT-S OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



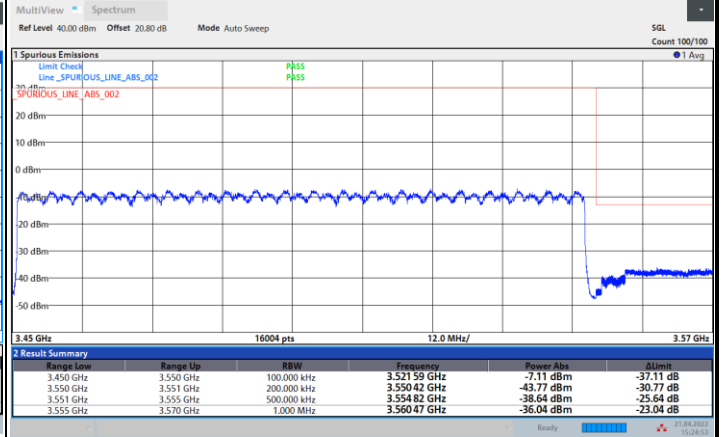
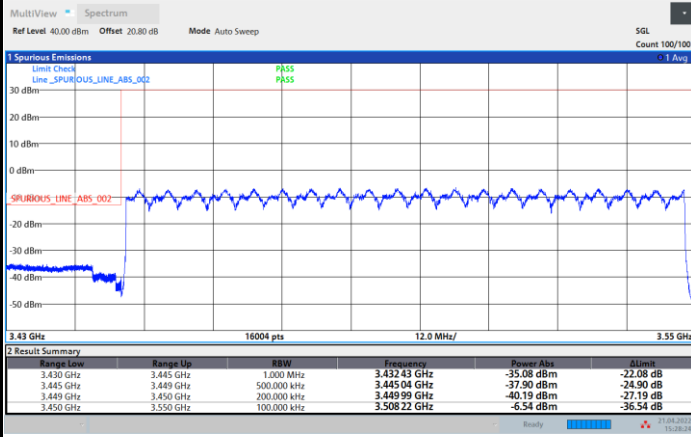




FR1 n77 / 100MHz / DFT-S OFDM / 256QAM / Full RB

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

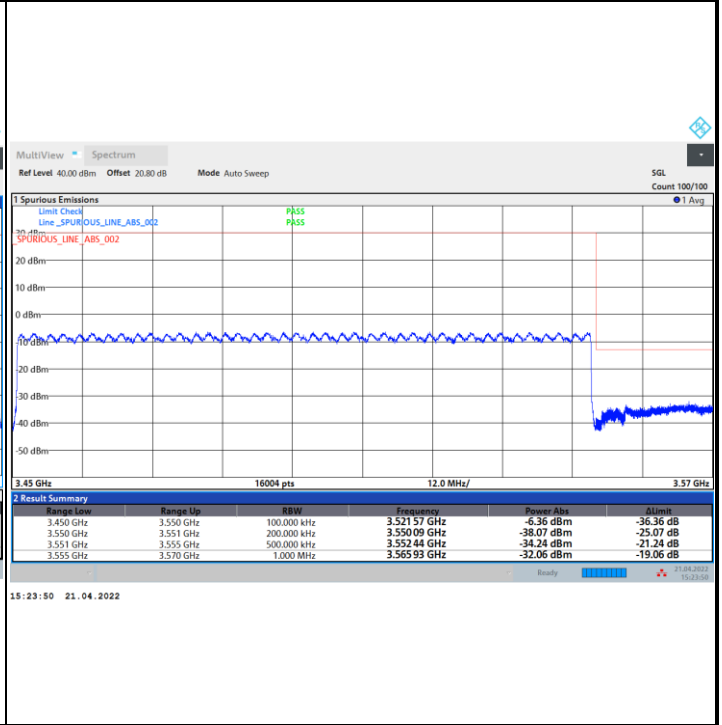




FR1 n77 / 100MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

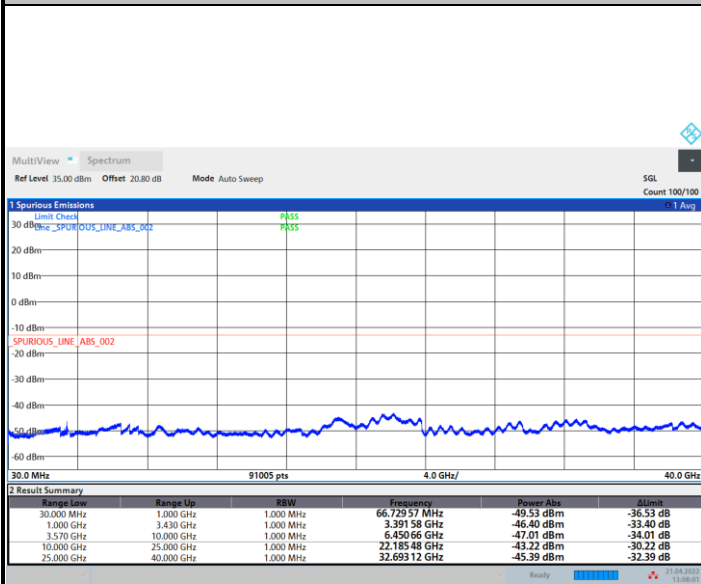




# Conducted Spurious Emission

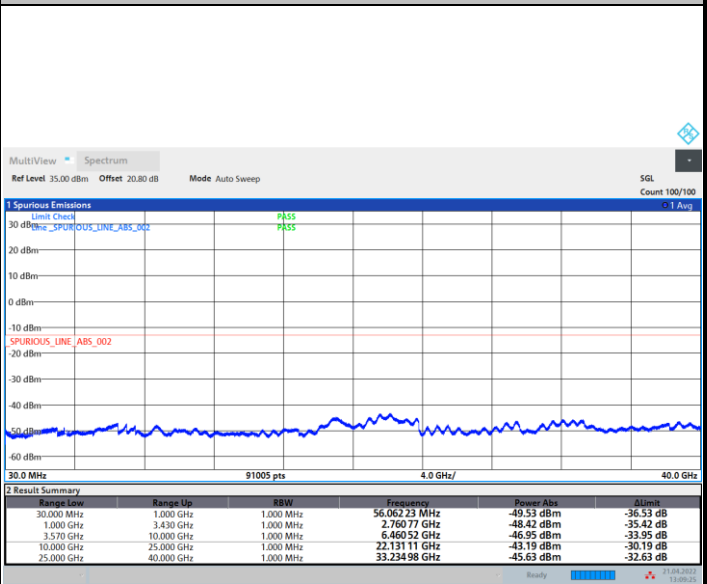
FR1 n77 / 20MHz / DFT-S OFDM / QPSK / 1RB1

## Lowest Channel



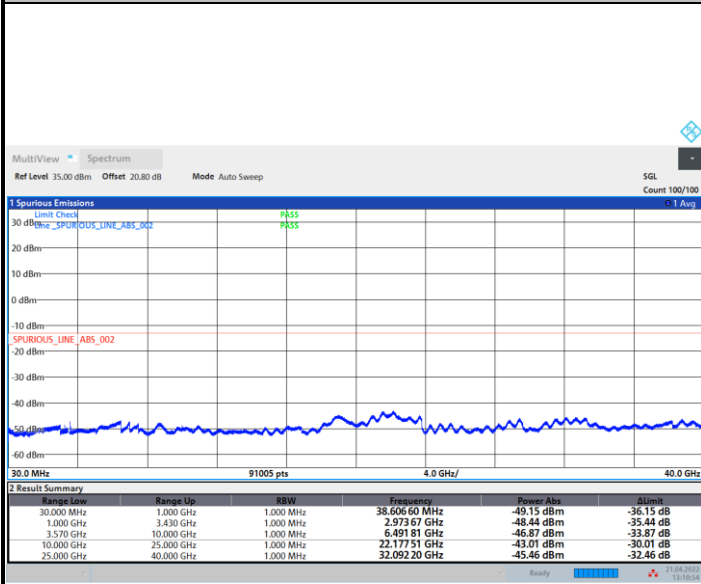
13:08:02 21.04.2022

## Middle Channel



13:09:26 21.04.2022

## Highest Channel



13:10:54 21.04.2022



Frequency Stability

Test Conditions		FR1 n77 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0032	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.1 V. ; Maximum Voltage =3.6 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# FR1 n78

## Peak-to-Average Ratio

Mode	FR1 n78 / 20MHz / 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	4.38	5.48	6.50	7.74	PASS
Mode	FR1 n78 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.62				PASS