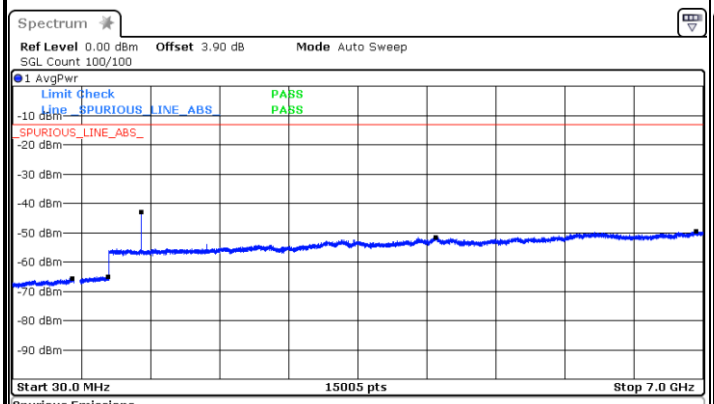
FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

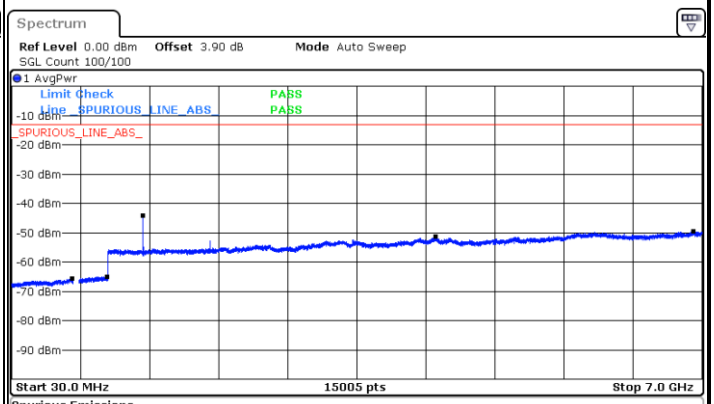


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	629.15292 MHz	-65.62 dBm	-52.62 dB
709.000 MHz	1.000 GHz	100.000 kHz	991.42408 MHz	-64.95 dBm	-51.95 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.32717 GHz	-42.84 dBm	-29.84 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.30092 GHz	-51.61 dBm	-38.61 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.92677 GHz	-49.50 dBm	-36.50 dB

Date: 3.MAR.2021 07:31:50

Middle Channel / 1RB

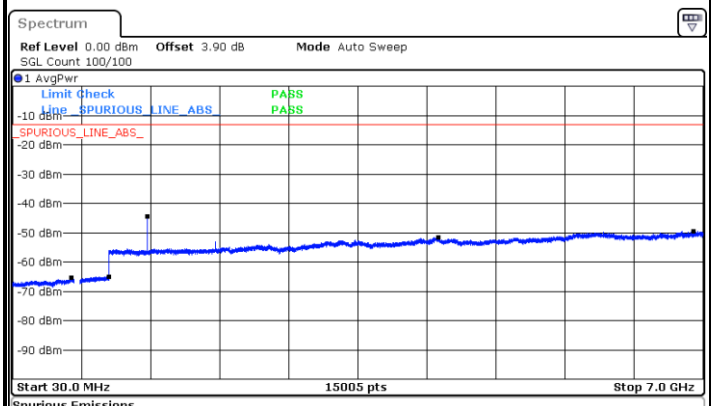


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	634.74813 MHz	-65.63 dBm	-52.63 dB
709.000 MHz	1.000 GHz	100.000 kHz	991.42408 MHz	-65.05 dBm	-52.05 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.35716 GHz	-44.21 dBm	-31.21 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.30592 GHz	-51.48 dBm	-38.48 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.91377 GHz	-49.57 dBm	-36.57 dB

Date: 3.MAR.2021 07:33:15

Highest Channel / 1RB



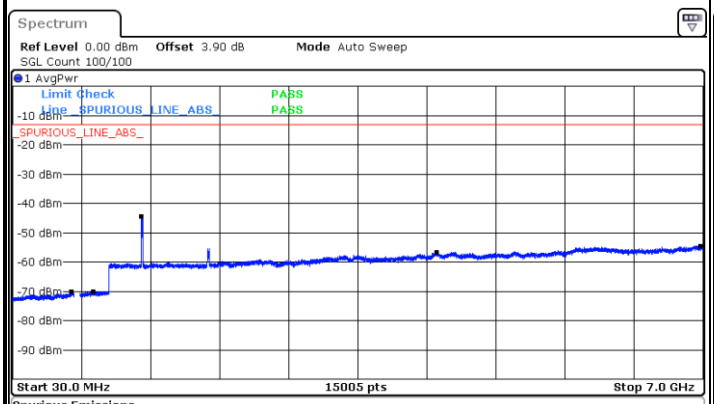
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	623.86857 MHz	-65.48 dBm	-52.48 dB
709.000 MHz	1.000 GHz	100.000 kHz	999.56394 MHz	-65.08 dBm	-52.08 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.38715 GHz	-44.40 dBm	-31.40 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.32242 GHz	-51.60 dBm	-38.60 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.90327 GHz	-49.46 dBm	-36.46 dB

Date: 3.MAR.2021 07:33:47

FR1 n71 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

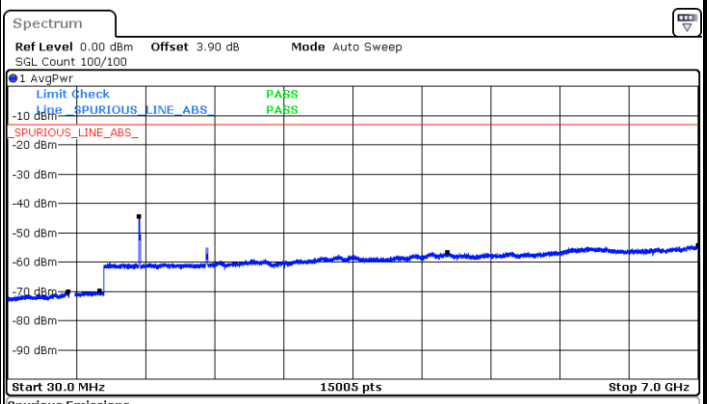


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	623.86857 MHz	-70.07 dBm	-57.07 dB
709.000 MHz	1.000 GHz	100.000 kHz	841.41808 MHz	-70.03 dBm	-57.03 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.33117 GHz	-44.59 dBm	-31.59 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.30892 GHz	-56.67 dBm	-43.67 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.97276 GHz	-54.55 dBm	-41.55 dB

Date: 3.MAR.2021 06:53:31

Middle Channel / 1RB

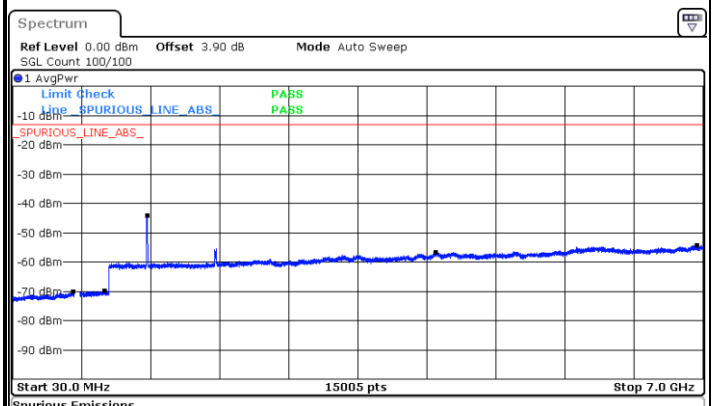


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	638.78911 MHz	-70.19 dBm	-57.19 dB
709.000 MHz	1.000 GHz	100.000 kHz	953.63187 MHz	-69.97 dBm	-56.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.35616 GHz	-44.34 dBm	-31.34 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.47038 GHz	-56.66 dBm	-43.66 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.99925 GHz	-54.37 dBm	-41.37 dB

Date: 3.MAR.2021 06:56:31

Highest Channel / 1RB



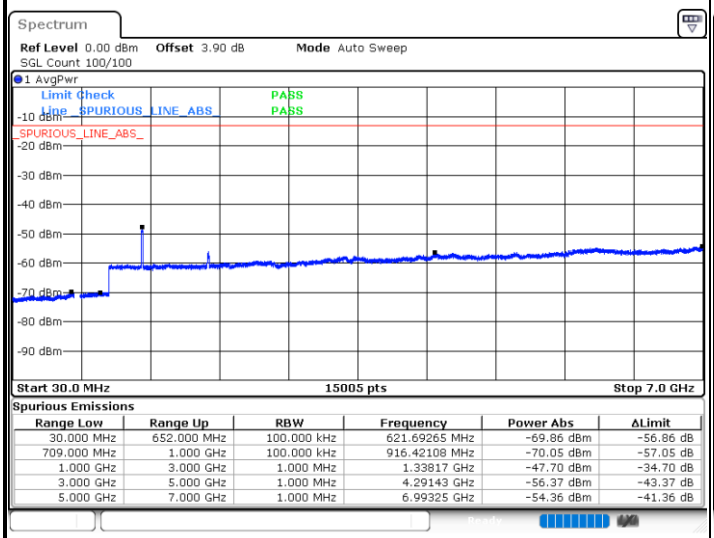
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	642.51924 MHz	-70.18 dBm	-57.18 dB
709.000 MHz	1.000 GHz	100.000 kHz	952.17832 MHz	-69.72 dBm	-56.72 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39065 GHz	-44.30 dBm	-31.30 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.29593 GHz	-56.64 dBm	-43.64 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.93477 GHz	-54.31 dBm	-41.31 dB

Date: 3.MAR.2021 06:59:19

FR1 n71 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

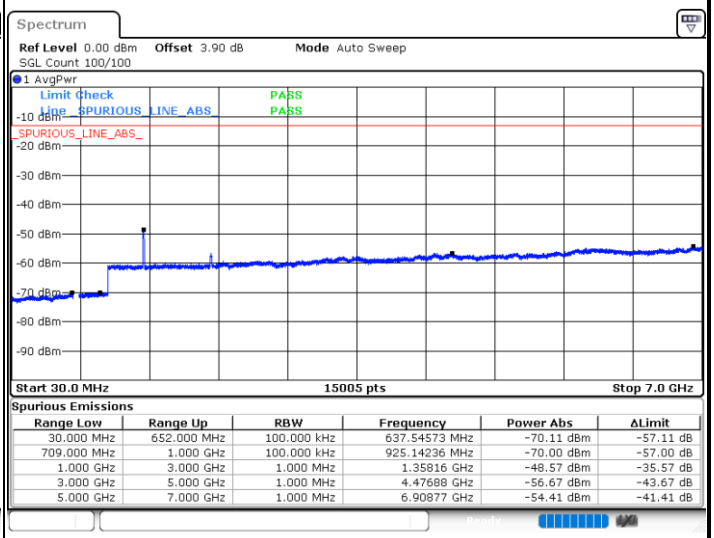


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	621.69265 MHz	-69.86 dBm	-56.86 dB
709.000 MHz	1.000 GHz	100.000 kHz	916.42108 MHz	-70.05 dBm	-57.05 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.33817 GHz	-47.70 dBm	-34.70 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.29143 GHz	-56.37 dBm	-43.37 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.99325 GHz	-54.36 dBm	-41.36 dB

Date: 3.MAR.2021 06:55:17

Middle Channel / 1RB

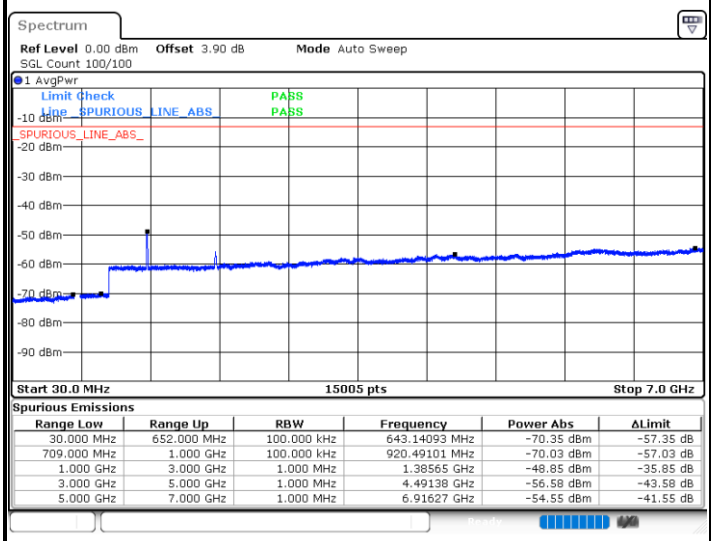


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	637.54573 MHz	-70.11 dBm	-57.11 dB
709.000 MHz	1.000 GHz	100.000 kHz	925.14236 MHz	-70.00 dBm	-57.00 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.35816 GHz	-48.57 dBm	-35.57 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.47688 GHz	-56.67 dBm	-43.67 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.90877 GHz	-54.41 dBm	-41.41 dB

Date: 3.MAR.2021 06:56:00

Highest Channel / 1RB



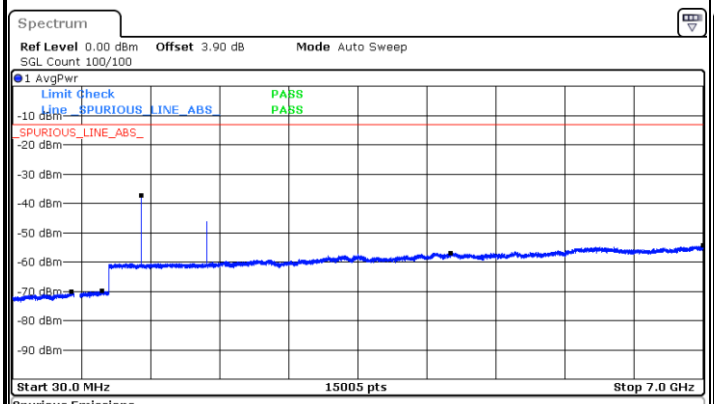
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	643.14093 MHz	-70.35 dBm	-57.35 dB
709.000 MHz	1.000 GHz	100.000 kHz	920.49101 MHz	-70.03 dBm	-57.03 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.38565 GHz	-48.85 dBm	-35.85 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.49138 GHz	-56.58 dBm	-43.58 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.91627 GHz	-54.55 dBm	-41.55 dB

Date: 3.MAR.2021 07:30:56

FR1 n71 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

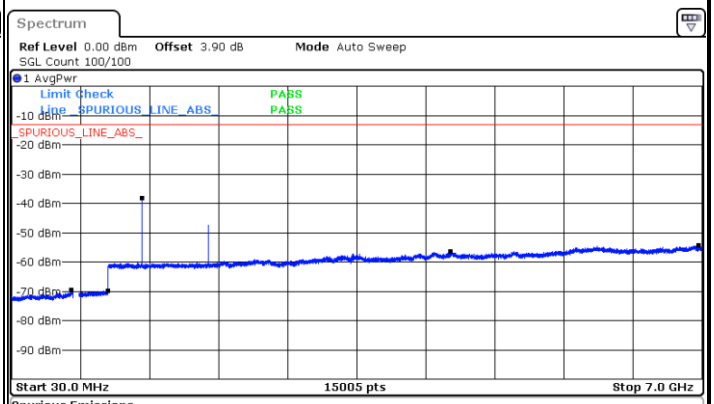


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	618.58421 MHz	-70.02 dBm	-57.02 dB
709.000 MHz	1.000 GHz	100.000 kHz	931.82867 MHz	-69.90 dBm	-56.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.32717 GHz	-37.21 dBm	-24.21 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.45389 GHz	-56.88 dBm	-43.88 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.99575 GHz	-54.45 dBm	-41.45 dB

Date: 3.MAR.2021 06:47:02

Middle Channel / 1RB

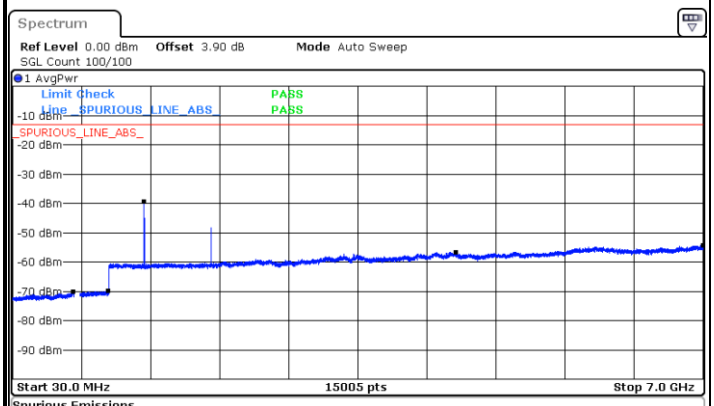


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	626.04448 MHz	-69.69 dBm	-56.69 dB
709.000 MHz	1.000 GHz	100.000 kHz	998.69181 MHz	-69.96 dBm	-56.96 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.34266 GHz	-38.30 dBm	-25.30 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.46288 GHz	-56.36 dBm	-43.36 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.96826 GHz	-54.37 dBm	-41.37 dB

Date: 3.MAR.2021 06:44:03

Highest Channel / 1RB



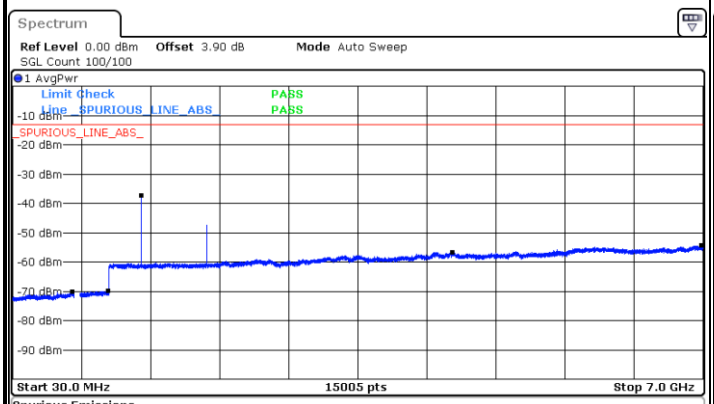
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	636.61319 MHz	-70.15 dBm	-57.15 dB
709.000 MHz	1.000 GHz	100.000 kHz	991.42408 MHz	-69.94 dBm	-56.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.35716 GHz	-39.55 dBm	-26.55 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.49888 GHz	-56.76 dBm	-43.76 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-54.30 dBm	-41.30 dB

Date: 3.MAR.2021 06:52:22

FR1 n71 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

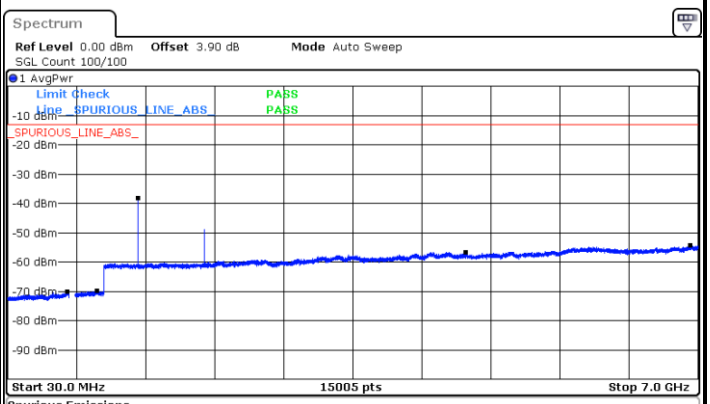


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	626.97701 MHz	-70.02 dBm	-57.02 dB
709.000 MHz	1.000 GHz	100.000 kHz	989.97053 MHz	-69.98 dBm	-56.98 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.32767 GHz	-37.40 dBm	-24.40 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.46388 GHz	-56.67 dBm	-43.67 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.98425 GHz	-54.44 dBm	-41.44 dB

Date: 3.MAR.2021 06:47:36

Middle Channel / 1RB

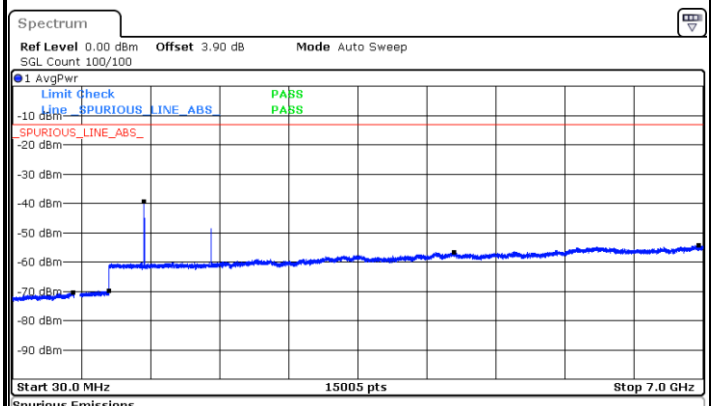


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	626.04448 MHz	-70.10 dBm	-57.10 dB
709.000 MHz	1.000 GHz	100.000 kHz	933.86364 MHz	-69.93 dBm	-56.93 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.34266 GHz	-38.12 dBm	-25.12 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.65034 GHz	-56.75 dBm	-43.75 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.91927 GHz	-54.40 dBm	-41.40 dB

Date: 3.MAR.2021 06:43:36

Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	652.000 MHz	100.000 kHz	639.09995 MHz	-70.48 dBm	-57.48 dB
709.000 MHz	1.000 GHz	100.000 kHz	998.40110 MHz	-69.97 dBm	-56.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.35716 GHz	-39.52 dBm	-26.52 dB
3.000 GHz	5.000 GHz	1.000 MHz	4.48288 GHz	-56.62 dBm	-43.62 dB
5.000 GHz	7.000 GHz	1.000 MHz	6.95276 GHz	-54.37 dBm	-41.37 dB

Date: 3.MAR.2021 06:51:51

Frequency Stability

Test Conditions		NR n71 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0014	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0013	

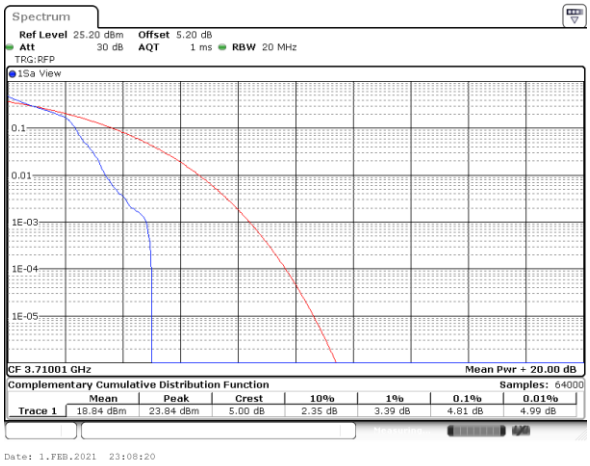
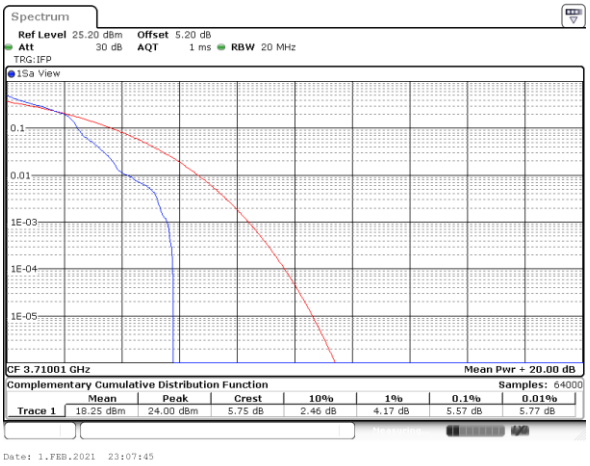
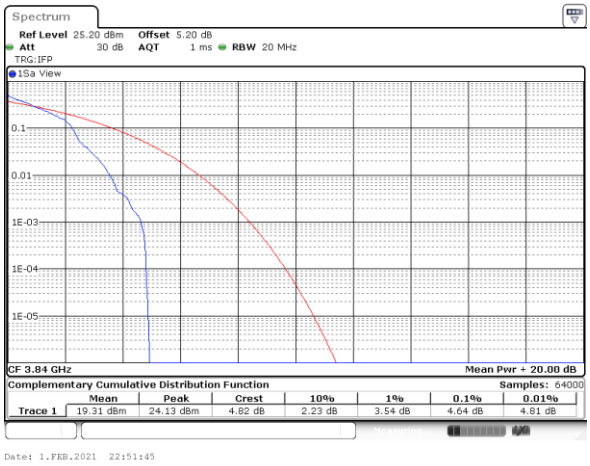
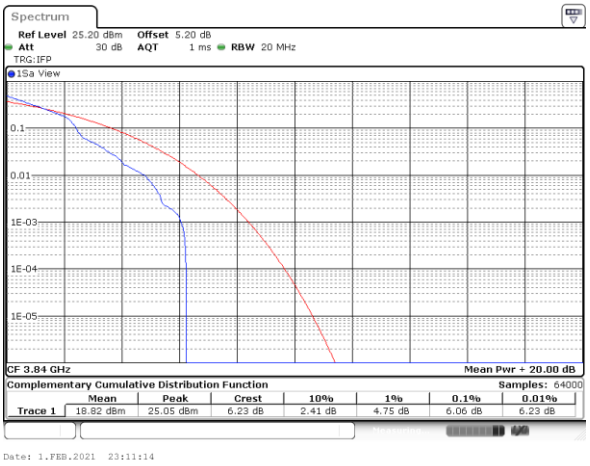
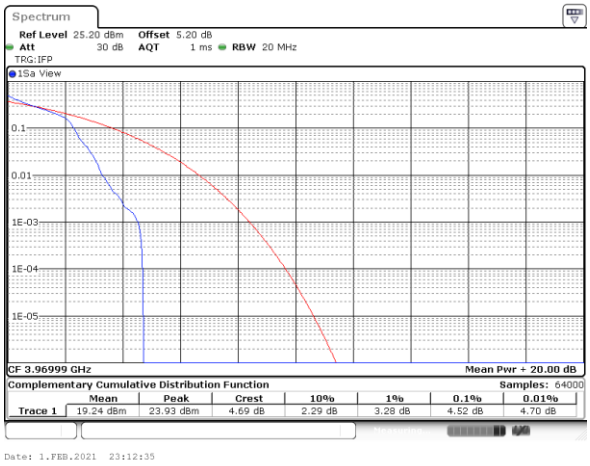
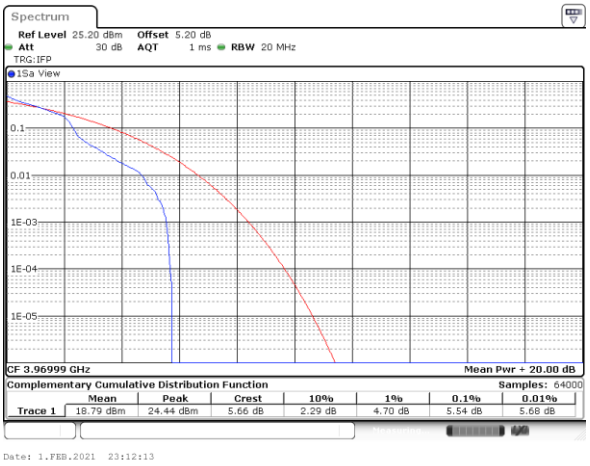
Note:

1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

5G NR n77 SA-SCS 15K

Peak-to-Average Ratio

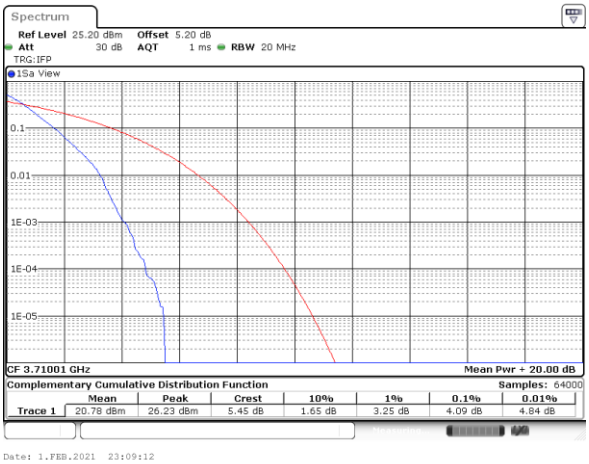
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.81	4.09	5.57	5.62	PASS
Middle CH	4.64	3.88	6.06	5.25	
Highest CH	4.52	4.00	5.54	5.36	

FR1 n77 / 20MHz / DFT-S OFDM	
PI/2 BPSK	**QPSK**
Lowest Channel / 1RB	**Lowest Channel / 1RB**
	
Middle Channel / 1 RB	**Middle Channel / 1 RB**
	
Highest Channel / 1 RB	**Highest Channel / 1 RB**
	

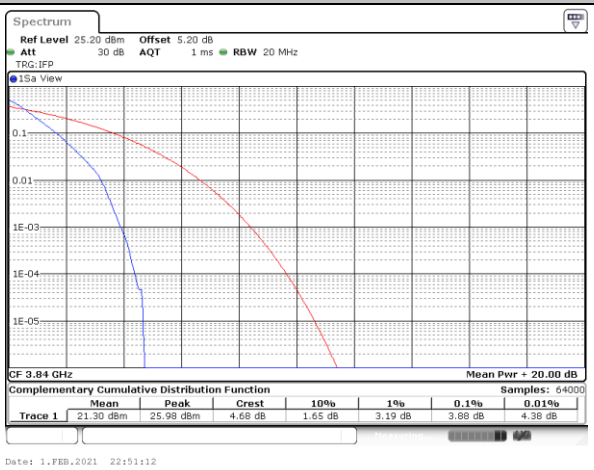
FR1 n77 / 20MHz / DFT-S OFDM

PI/2 BPSK

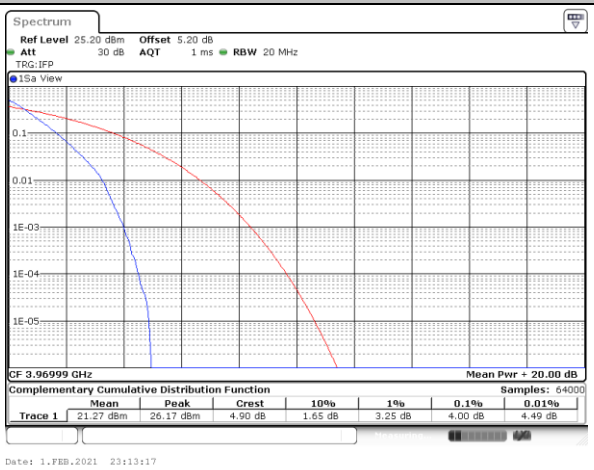
Lowest Channel / Full RB



Middle Channel / Full RB

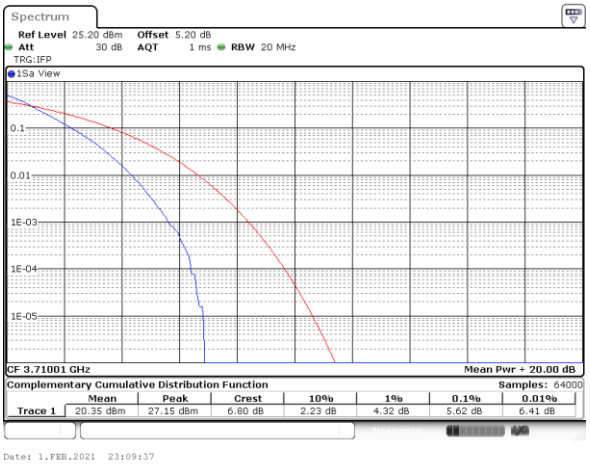


Highest Channel / Full RB

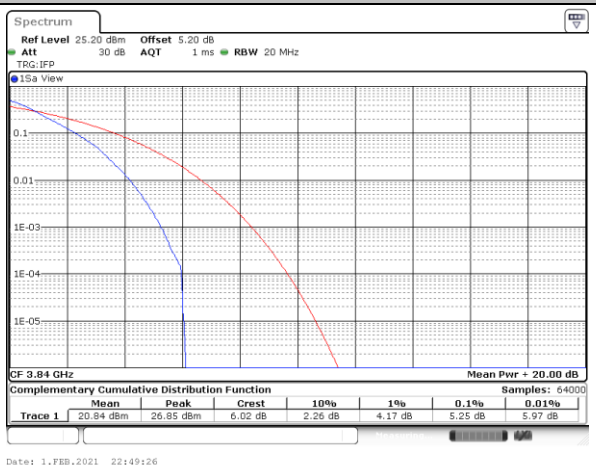


QPSK

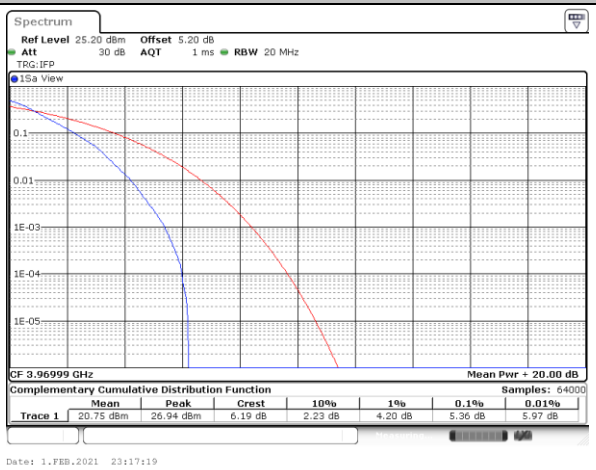
Lowest Channel / Full RB



Middle Channel / Full RB



Highest Channel / Full RB

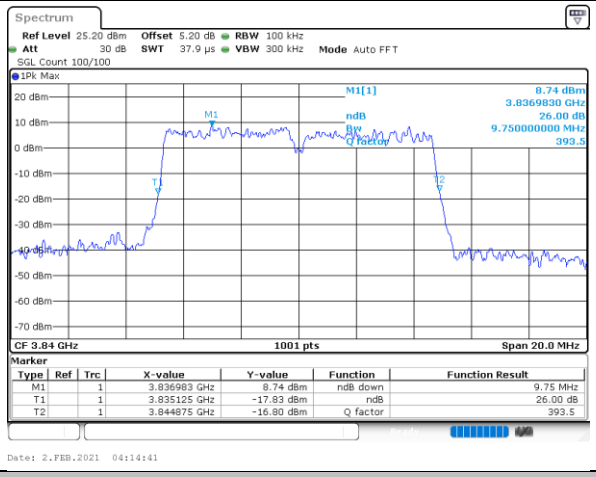
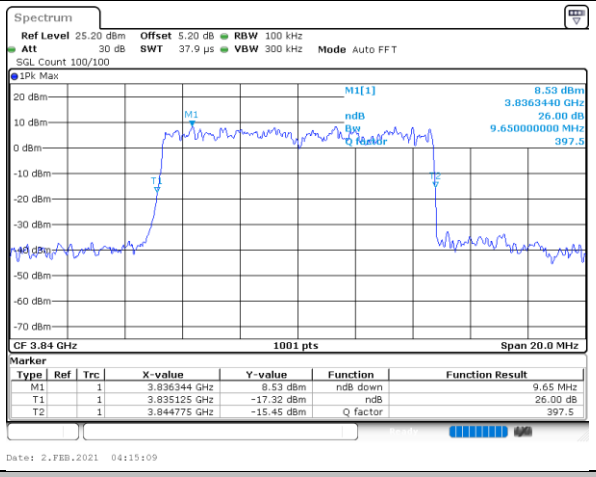
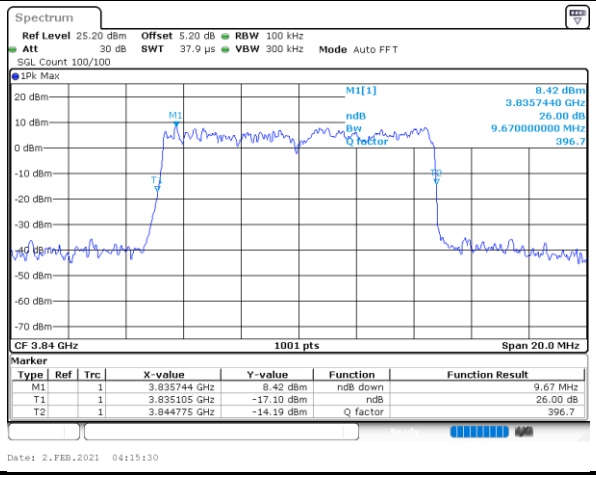
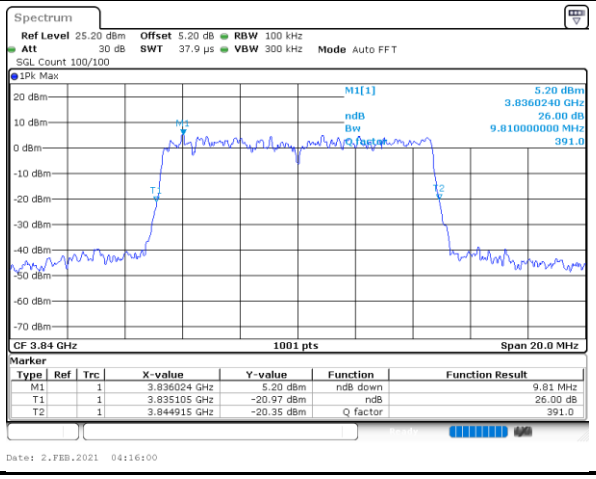


26dB Bandwidth

Mode	FR1 n77 : 26dB BW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.75	9.65	9.67	9.81				

Mode	FR1 n77 : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.99	14.84	14.90	14.87				

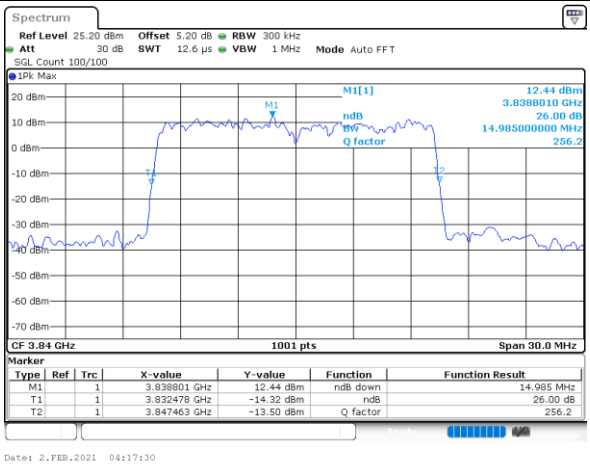
Mode	FR1 n77 : 26dB BW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	19.74	19.7	20.02	19.78				

FR1 n77 / 10MHz / CP-OFDM	
QPSK	**16QAM**
Middle Channel	**Middle Channel**
	
64QAM	**256QAM**
Middle Channel	**Middle Channel**
	

FR1 n77 / 15MHz / CP-OFDM

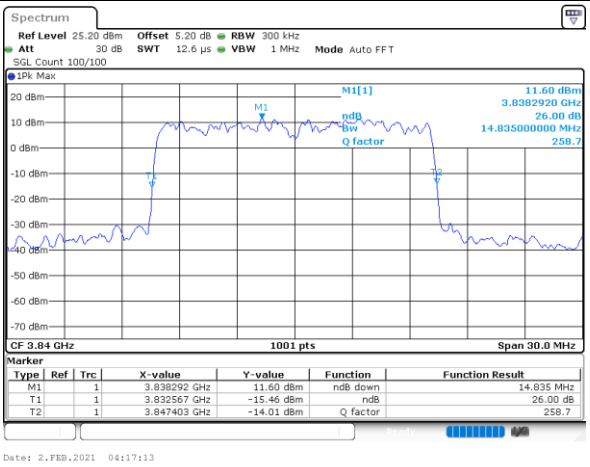
QPSK

Middle Channel



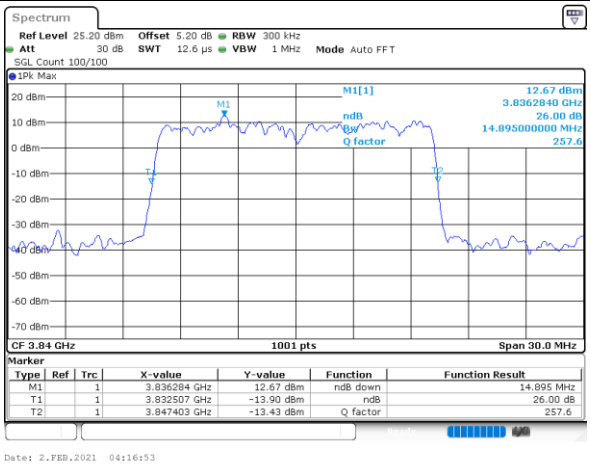
16QAM

Middle Channel



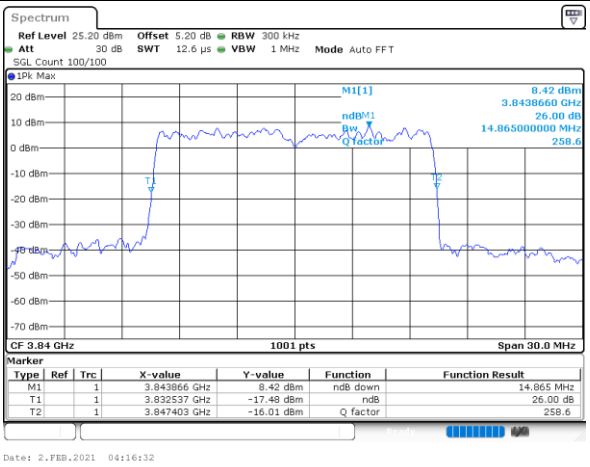
64QAM

Middle Channel



256QAM

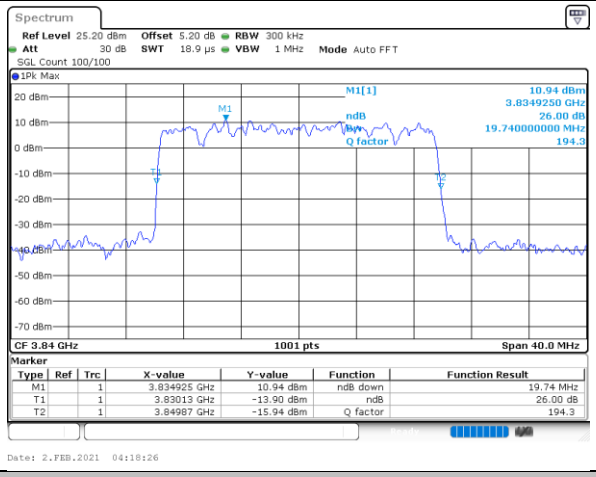
Middle Channel



FR1 n77 / 20MHz / CP-OFDM

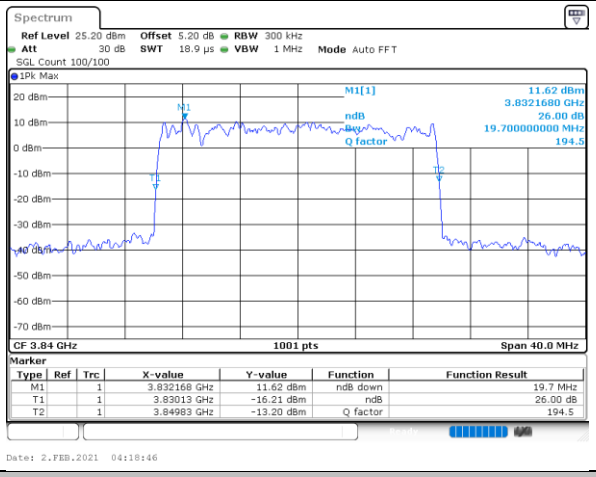
QPSK

Middle Channel



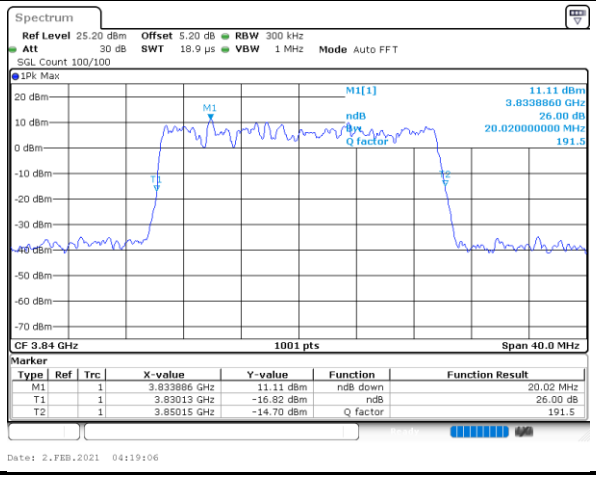
16QAM

Middle Channel



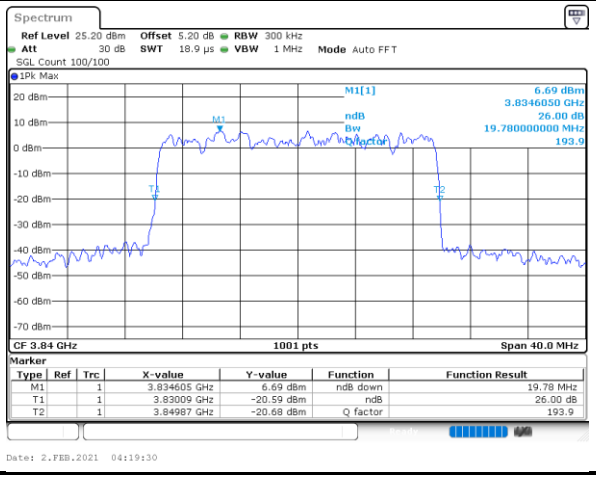
64QAM

Middle Channel



256QAM

Middle Channel



Occupied Bandwidth

Mode	FR1 n77 : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.27	9.25	9.31	9.27				

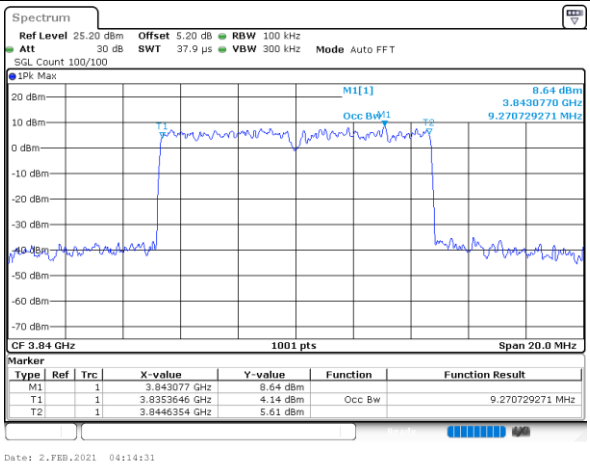
Mode	FR1 n77 : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.21	14.09	14.15	14.18				

Mode	FR1 n77 : OBW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	18.94	18.98	18.78	18.98				

FR1 n77 / 10MHz / CP-OFDM

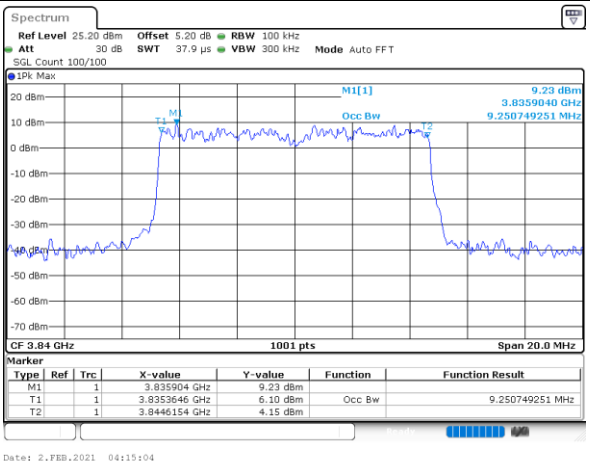
QPSK

Middle Channel



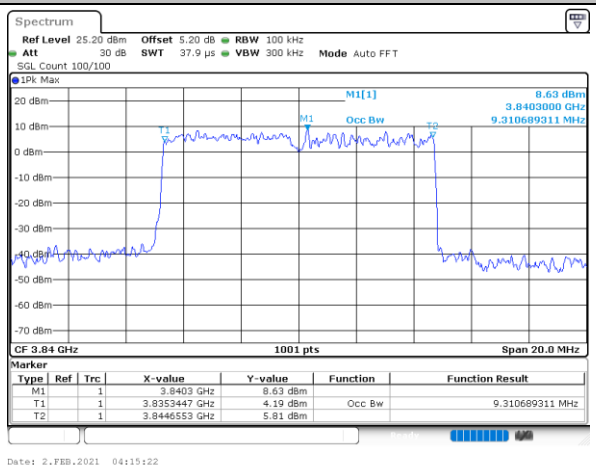
16QAM

Middle Channel



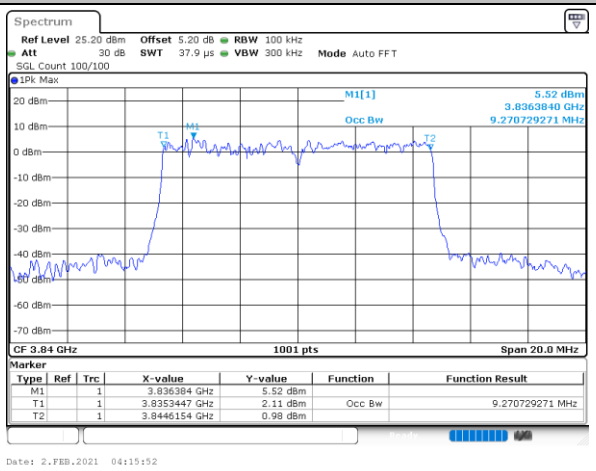
64QAM

Middle Channel



256QAM

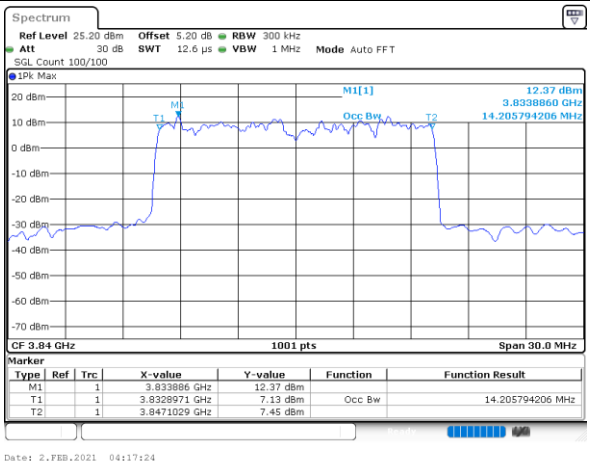
Middle Channel



FR1 n77 / 15MHz / CP-OFDM

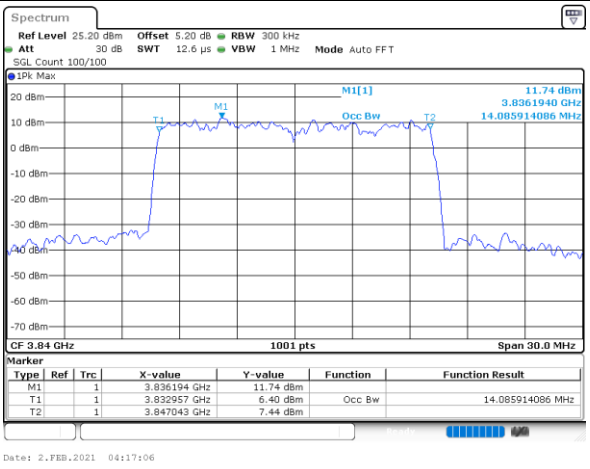
QPSK

Middle Channel



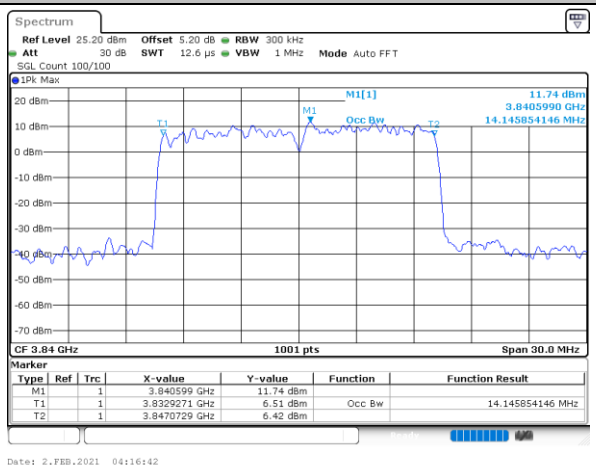
16QAM

Middle Channel



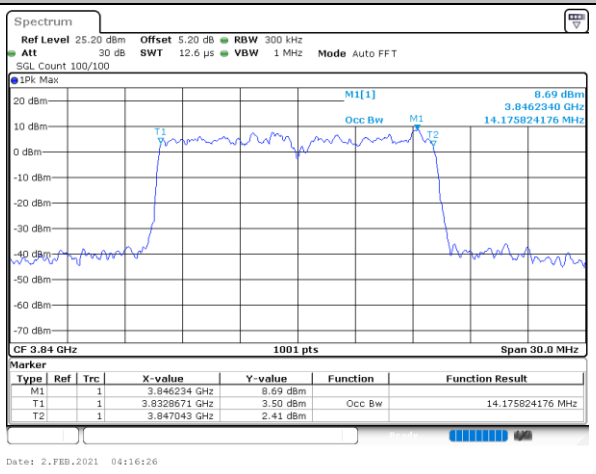
64QAM

Middle Channel



256QAM

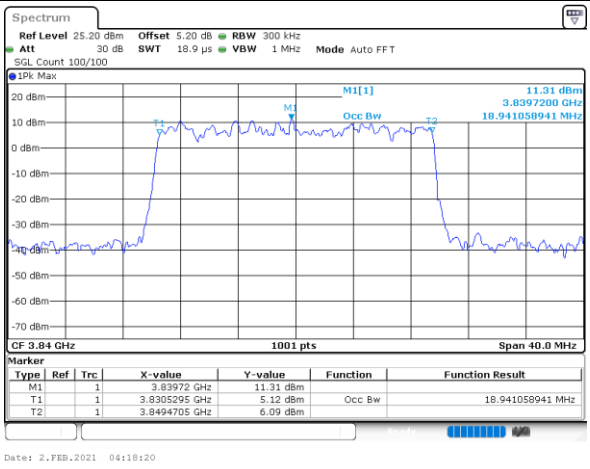
Middle Channel



FR1 n77 / 20MHz / CP-OFDM

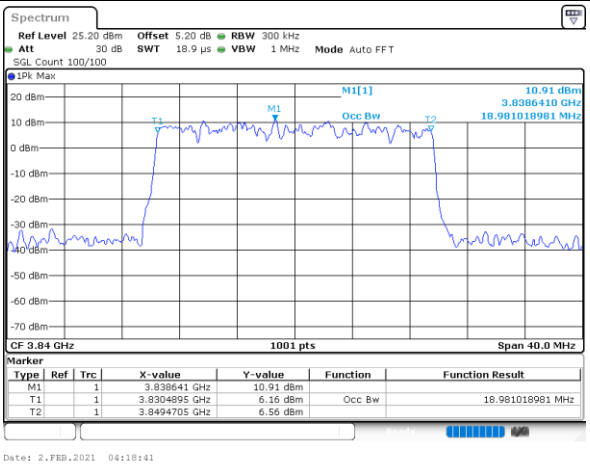
QPSK

Middle Channel



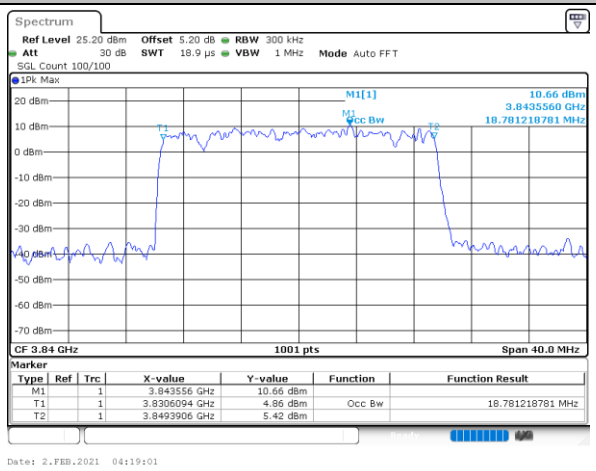
16QAM

Middle Channel



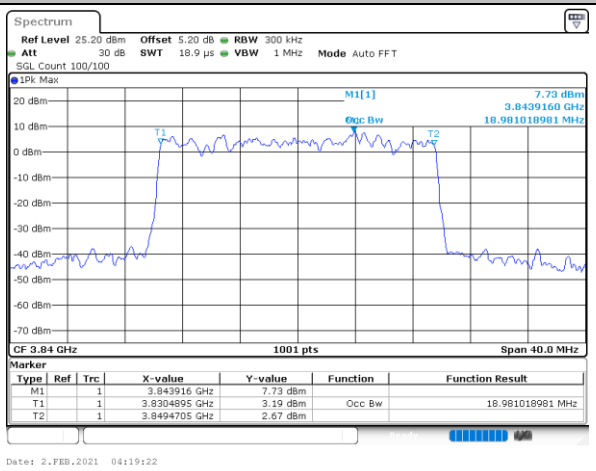
64QAM

Middle Channel



256QAM

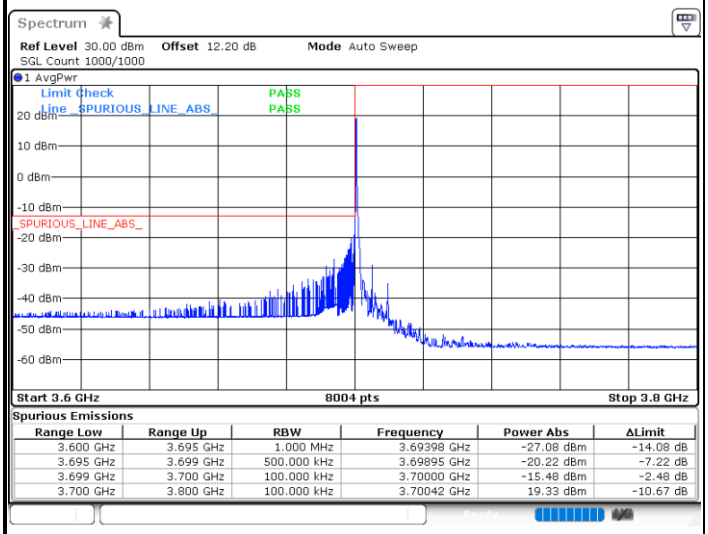
Middle Channel



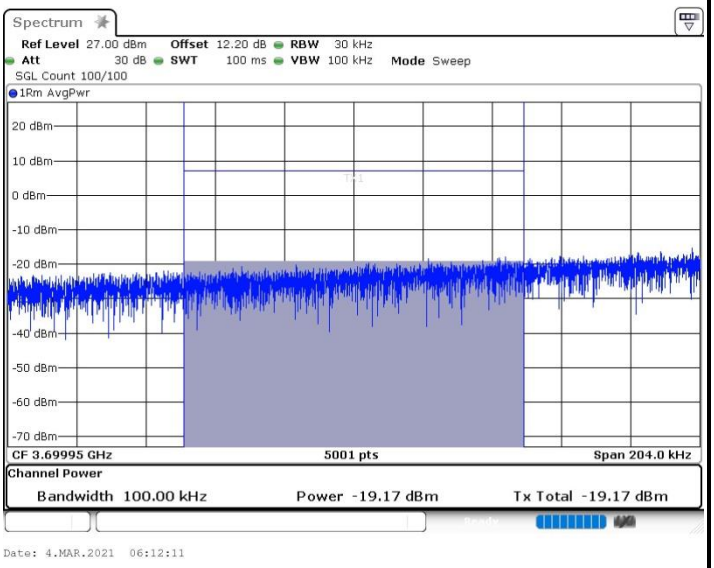
Conducted Band Edge

FR1 n77 / 10MHz / DFT-S OFDM BPSK

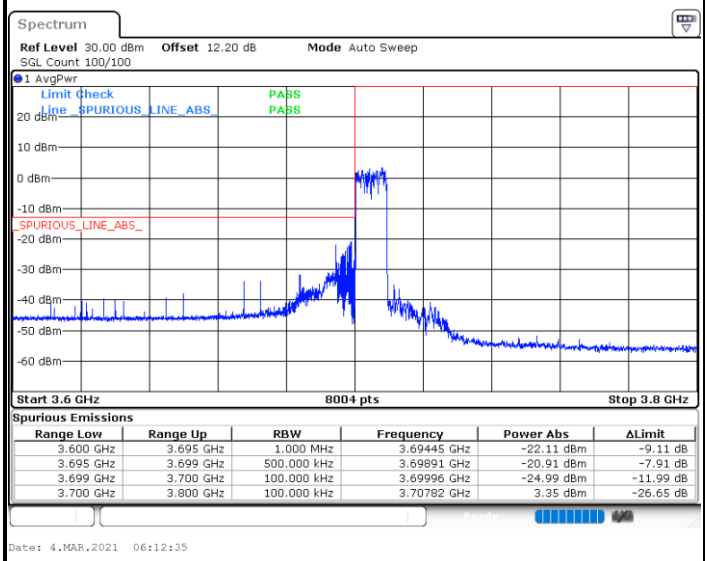
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

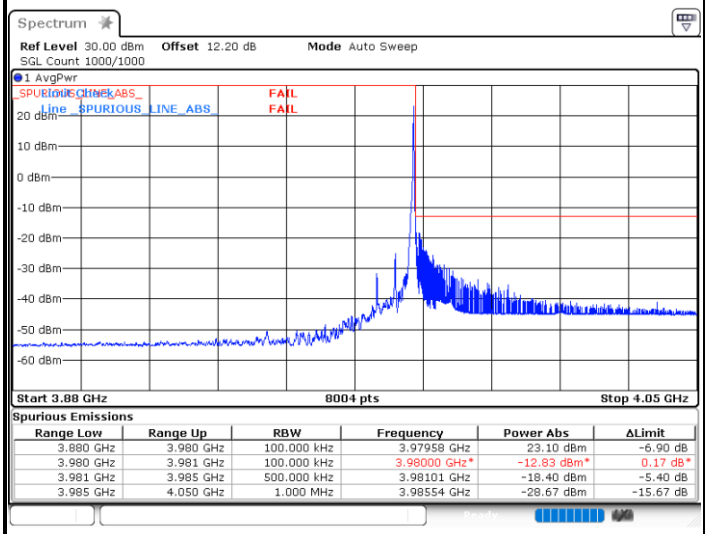


Channel Power < -13dBm Pass

/

FR1 n77 / 10MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

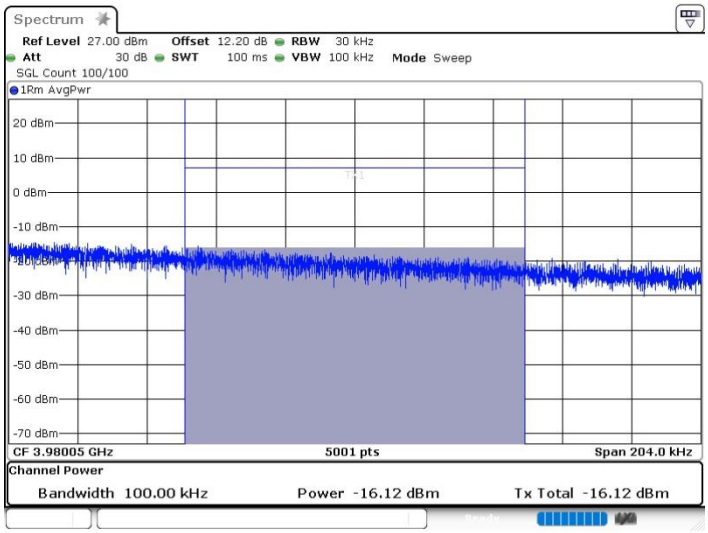


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97958 GHz	23.10 dBm	-6.90 dB
3.980 GHz	3.981 GHz	100.000 kHz	3.98000 GHz*	-12.83 dBm*	0.17 dB*
3.981 GHz	3.985 GHz	500.000 kHz	3.98101 GHz	-18.40 dBm	-5.40 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98554 GHz	-28.67 dBm	-15.67 dB

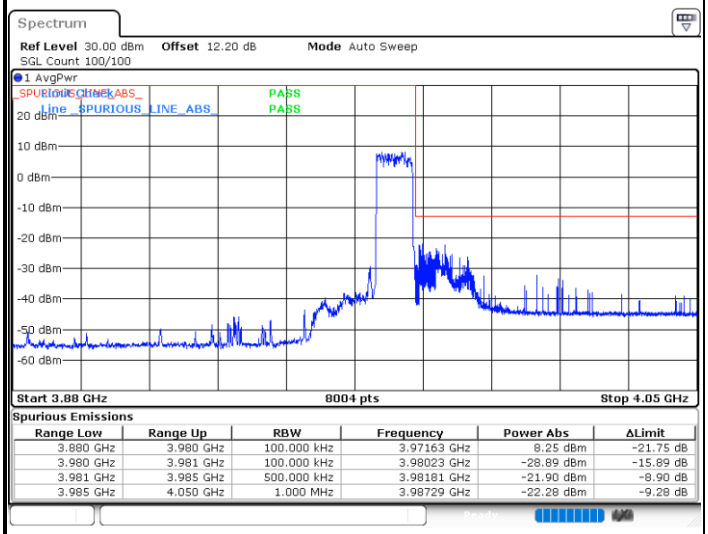
Date: 11.FEB.2021 01:08:11

Channel Power < -13dBm Pass



Date: 11.FEB.2021 01:09:22

Highest Band Edge / Full RB



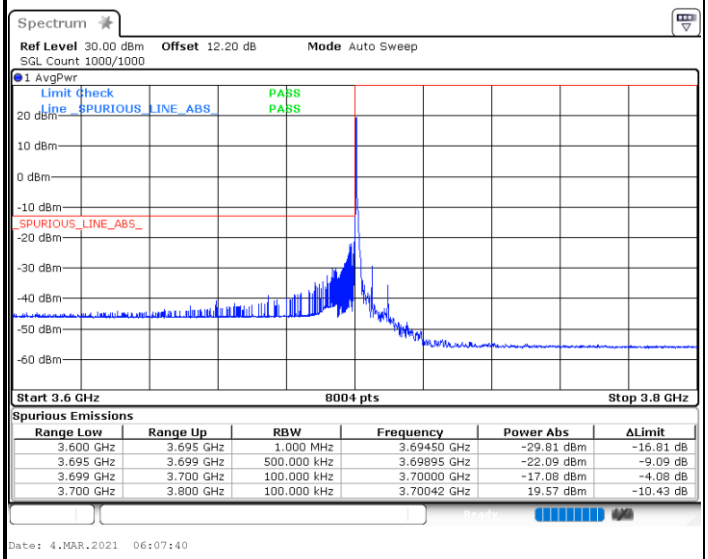
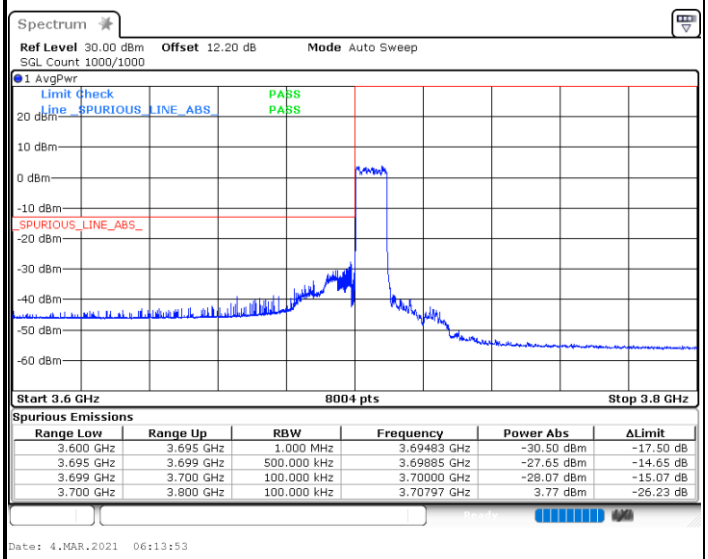
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97163 GHz	8.25 dBm	-21.75 dB
3.980 GHz	3.981 GHz	100.000 kHz	3.98023 GHz	-28.89 dBm	-15.89 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98181 GHz	-21.90 dBm	-8.90 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98729 GHz	-22.28 dBm	-9.28 dB

Date: 11.FEB.2021 01:11:26

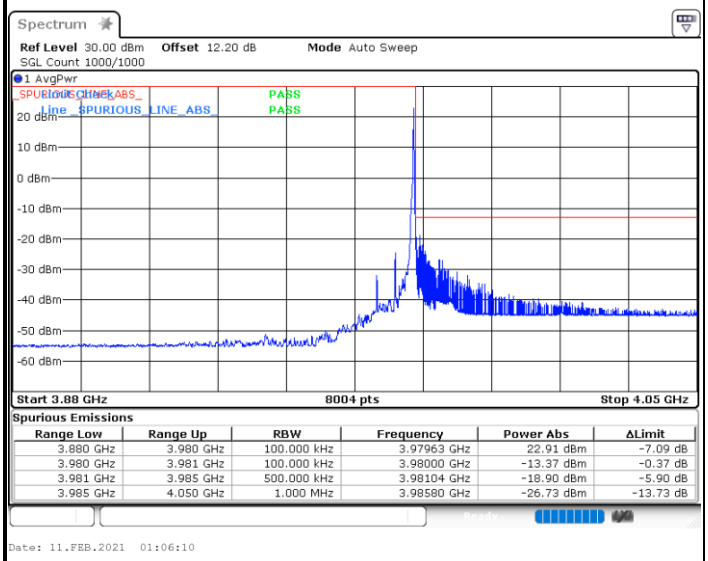
Channel Power < -13dBm Pass

/

FR1 n77 / 10MHz / DFT-S OFDM QPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.600 GHz / 3.695 GHz / 1.000 MHz / 3.69450 GHz / -29.81 dBm / -16.81 dB 3.695 GHz / 3.699 GHz / 500.000 kHz / 3.69895 GHz / -22.09 dBm / -9.09 dB 3.699 GHz / 3.700 GHz / 100.000 kHz / 3.70000 GHz / -17.08 dBm / -4.08 dB 3.700 GHz / 3.800 GHz / 100.000 kHz / 3.70042 GHz / 19.57 dBm / -10.43 dB Date: 4.MAR.2021 06:07:40	/
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.600 GHz / 3.695 GHz / 1.000 MHz / 3.69483 GHz / -30.50 dBm / -17.50 dB 3.695 GHz / 3.699 GHz / 500.000 kHz / 3.69885 GHz / -27.65 dBm / -14.65 dB 3.699 GHz / 3.700 GHz / 100.000 kHz / 3.70000 GHz / -28.07 dBm / -15.07 dB 3.700 GHz / 3.800 GHz / 100.000 kHz / 3.70797 GHz / 3.77 dBm / -26.23 dB Date: 4.MAR.2021 06:13:53	/

FR1 n77 / 10MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

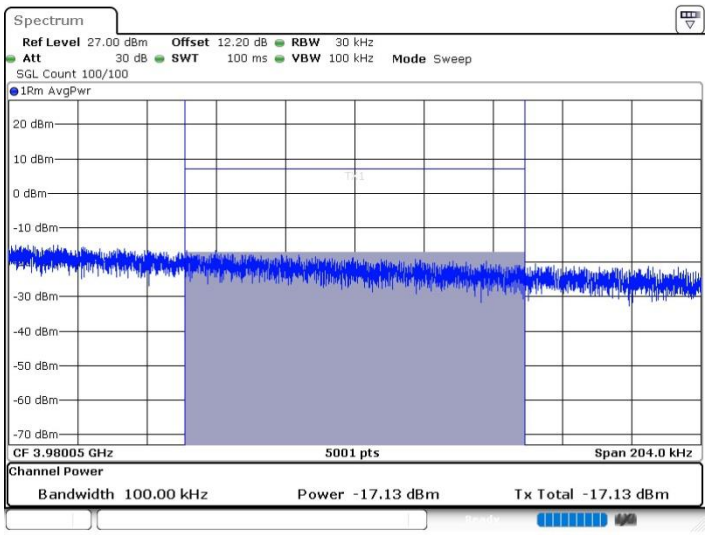


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97963 GHz	22.91 dBm	-7.09 dB
3.980 GHz	3.981 GHz	100.000 kHz	3.98000 GHz	-13.37 dBm	-0.37 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98104 GHz	-18.90 dBm	-5.90 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98580 GHz	-26.73 dBm	-13.73 dB

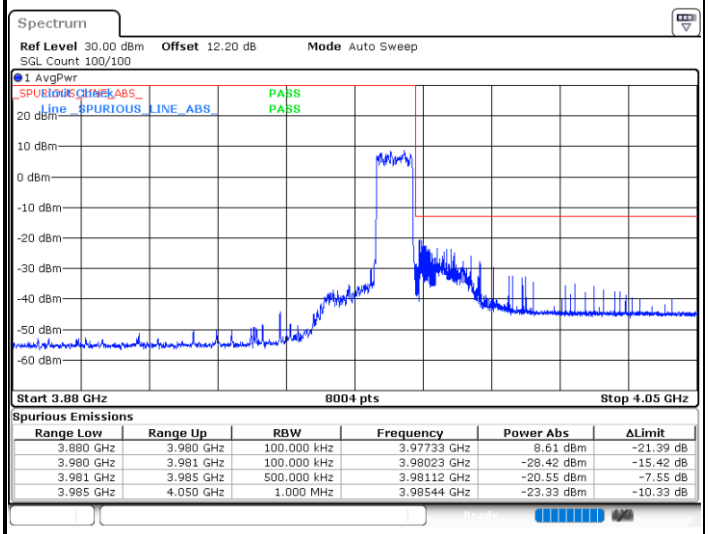
Date: 11.FEB.2021 01:06:10

Channel Power < -13dBm Pass



Date: 11.FEB.2021 01:09:42

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97733 GHz	8.61 dBm	-21.39 dB
3.980 GHz	3.981 GHz	100.000 kHz	3.98023 GHz	-28.42 dBm	-15.42 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98112 GHz	-20.55 dBm	-7.55 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98544 GHz	-23.33 dBm	-10.33 dB

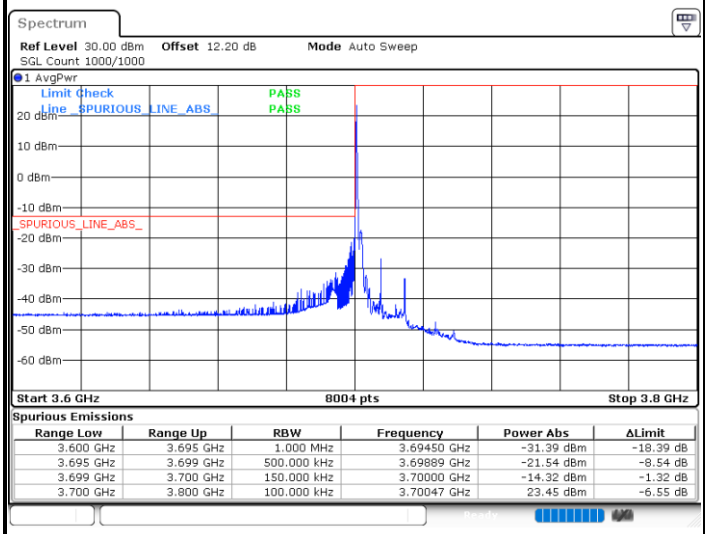
Date: 11.FEB.2021 01:10:12

Channel Power < -13dBm Pass

/

FR1 n77 / 15MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

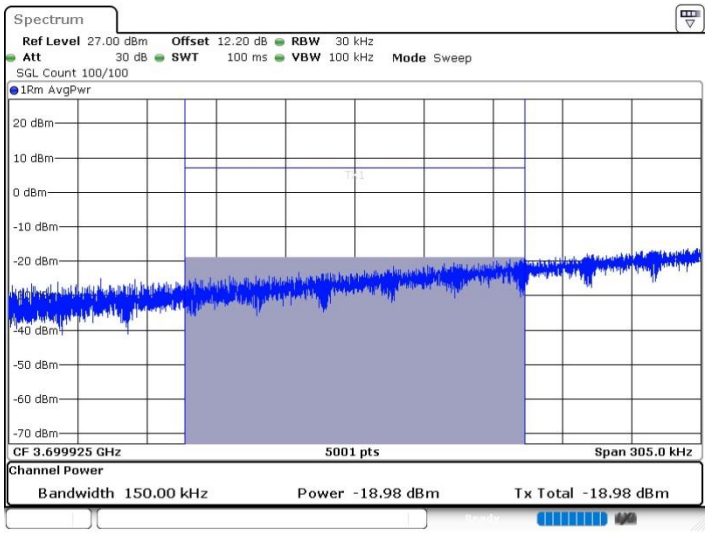


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69450 GHz	-31.39 dBm	-18.39 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69889 GHz	-21.54 dBm	-8.54 dB
3.699 GHz	3.700 GHz	150.000 kHz	3.70000 GHz	-14.32 dBm	-1.32 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70047 GHz	23.45 dBm	-6.55 dB

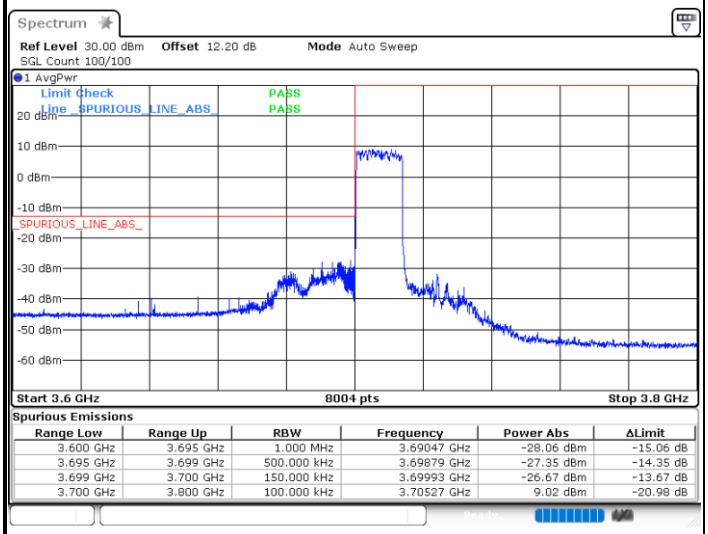
Date: 12.MAR.2021 03:37:11

Channel Power < -13dBm Pass



Date: 12.MAR.2021 03:44:39

Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69047 GHz	-28.06 dBm	-15.06 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69879 GHz	-27.35 dBm	-14.35 dB
3.699 GHz	3.700 GHz	150.000 kHz	3.69993 GHz	-26.67 dBm	-13.67 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70527 GHz	9.02 dBm	-20.98 dB

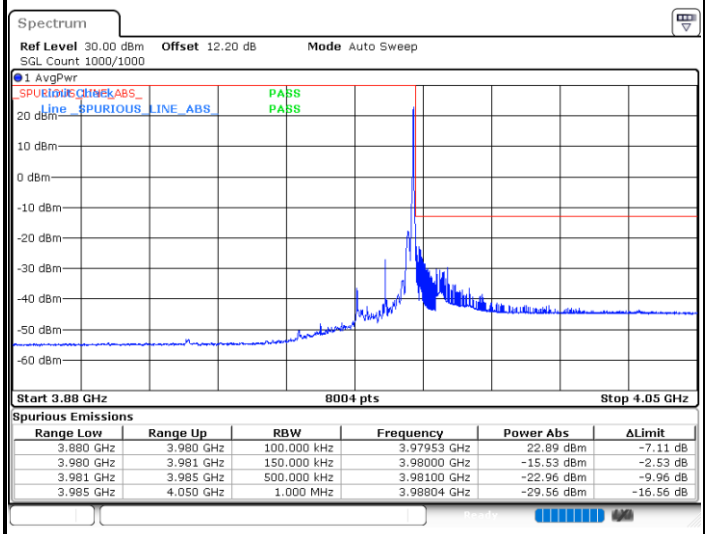
Date: 12.MAR.2021 03:38:10

Channel Power < -13dBm Pass

/

FR1 n77 / 15MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

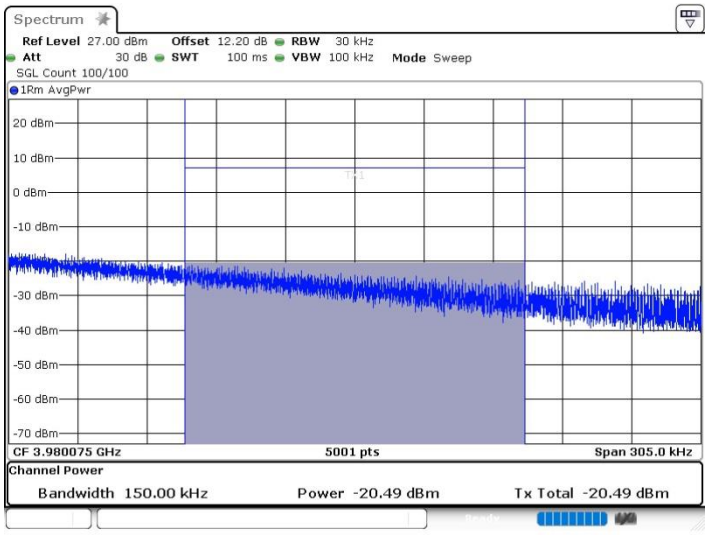


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97953 GHz	22.89 dBm	-7.11 dB
3.980 GHz	3.981 GHz	150.000 kHz	3.98000 GHz	-15.53 dBm	-2.53 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98100 GHz	-22.96 dBm	-9.96 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98804 GHz	-29.56 dBm	-16.56 dB

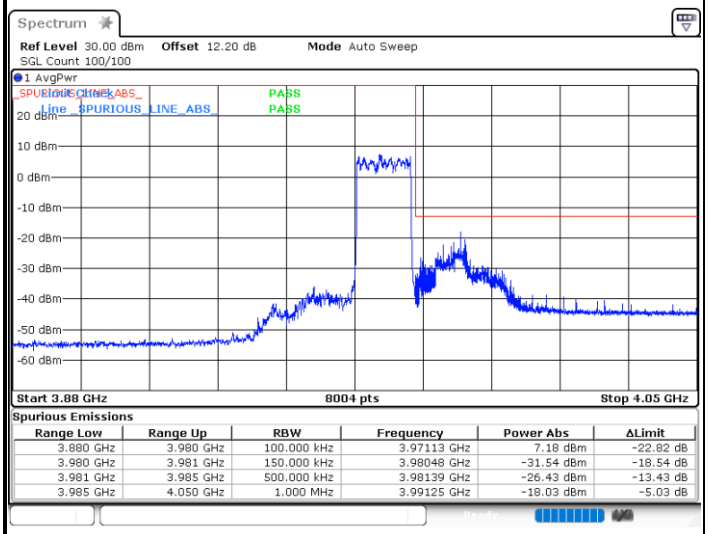
Date: 12.MAR.2021 03:46:18

Channel Power < -13dBm Pass



Date: 12.MAR.2021 03:50:41

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97113 GHz	7.18 dBm	-22.82 dB
3.980 GHz	3.981 GHz	150.000 kHz	3.98048 GHz	-31.54 dBm	-18.54 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98139 GHz	-26.43 dBm	-13.43 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.99125 GHz	-18.03 dBm	-5.03 dB

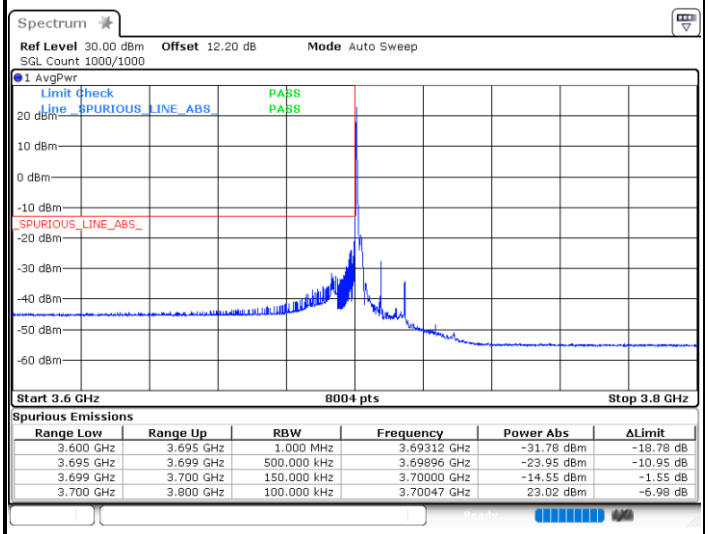
Date: 12.MAR.2021 03:49:15

Channel Power < -13dBm Pass

/

FR1 n77 / 15MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

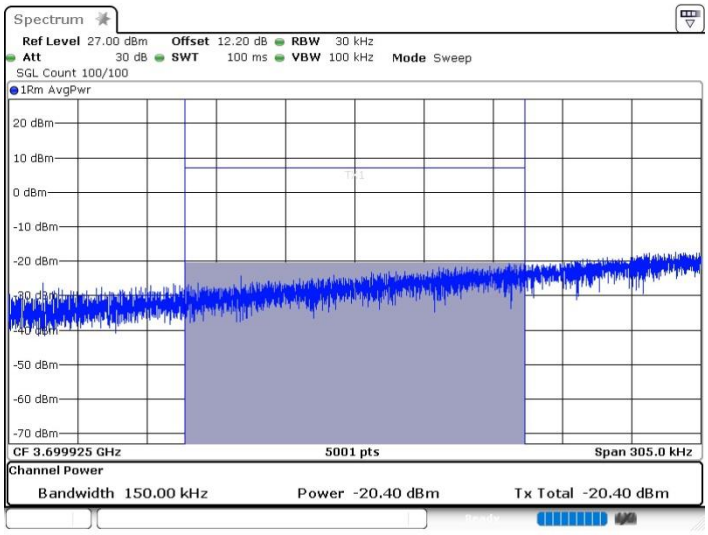


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69312 GHz	-31.78 dBm	-18.78 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69896 GHz	-23.95 dBm	-10.95 dB
3.699 GHz	3.700 GHz	150.000 kHz	3.70000 GHz	-14.55 dBm	-1.55 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70047 GHz	23.02 dBm	-6.98 dB

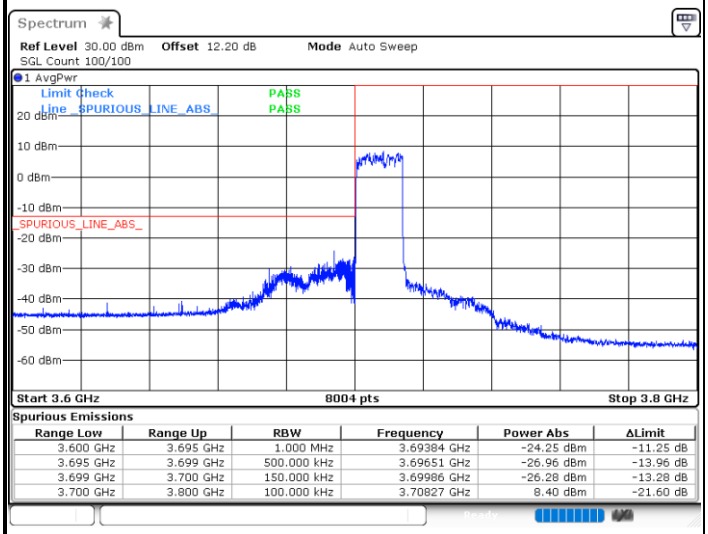
Date: 12.MAR.2021 03:05:49

Channel Power < -13dBm Pass



Date: 12.MAR.2021 03:43:54

Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69384 GHz	-24.25 dBm	-11.25 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69651 GHz	-26.96 dBm	-13.96 dB
3.699 GHz	3.700 GHz	150.000 kHz	3.69986 GHz	-26.28 dBm	-13.28 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70827 GHz	8.40 dBm	-21.60 dB

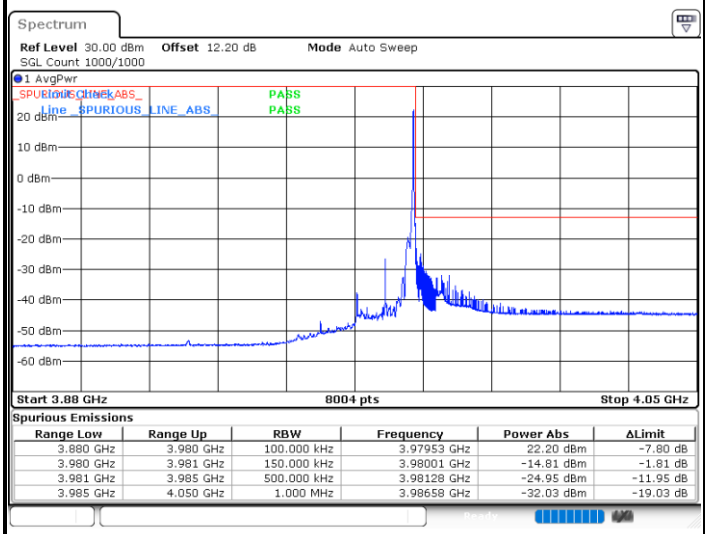
Date: 12.MAR.2021 03:38:47

Channel Power < -13dBm Pass

/

FR1 n77 / 15MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

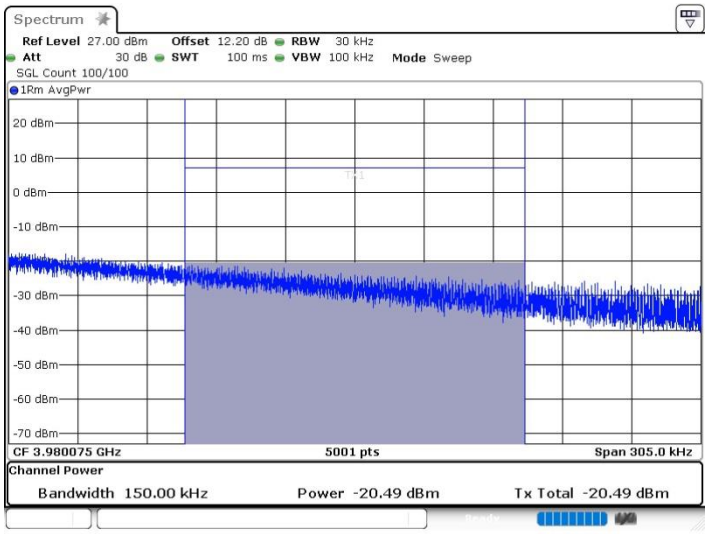


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97953 GHz	22.20 dBm	-7.80 dB
3.980 GHz	3.981 GHz	150.000 kHz	3.98001 GHz	-14.81 dBm	-1.81 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98128 GHz	-24.95 dBm	-11.95 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98658 GHz	-32.03 dBm	-19.03 dB

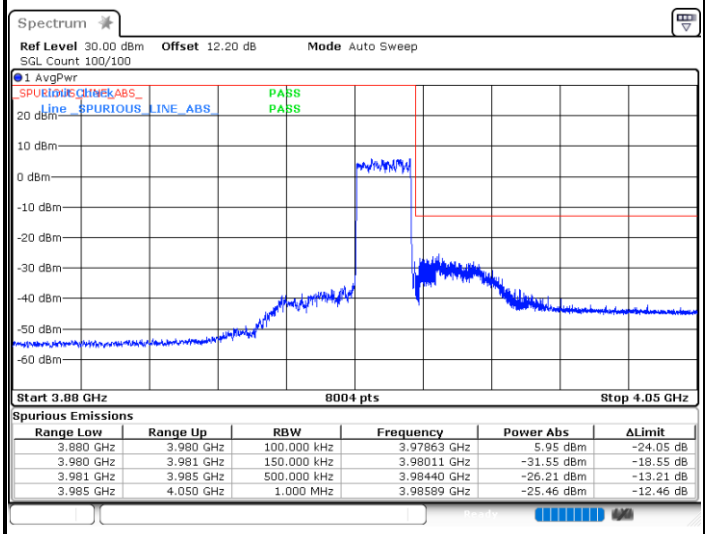
Date: 12.MAR.2021 03:47:22

Channel Power < -13dBm Pass



Date: 12.MAR.2021 03:51:32

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97863 GHz	5.95 dBm	-24.05 dB
3.980 GHz	3.981 GHz	150.000 kHz	3.98011 GHz	-31.55 dBm	-18.55 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98440 GHz	-26.21 dBm	-13.21 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98589 GHz	-25.46 dBm	-12.46 dB

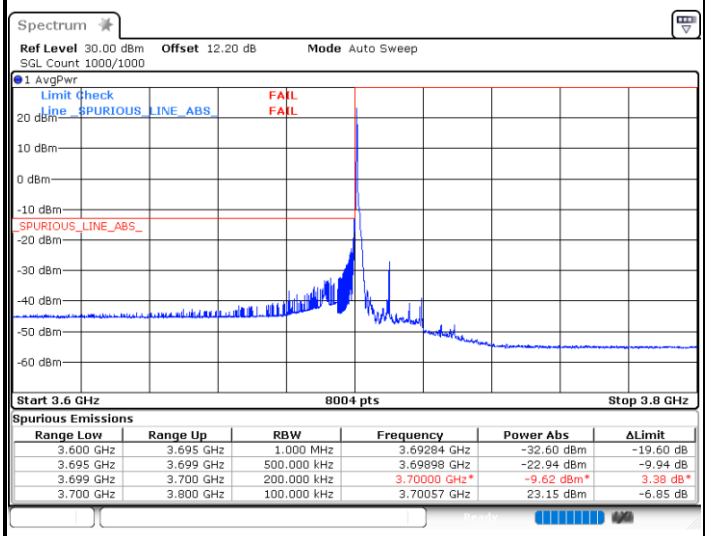
Date: 12.MAR.2021 03:48:01

Channel Power < -13dBm Pass

/

FR1 n77 / 20MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

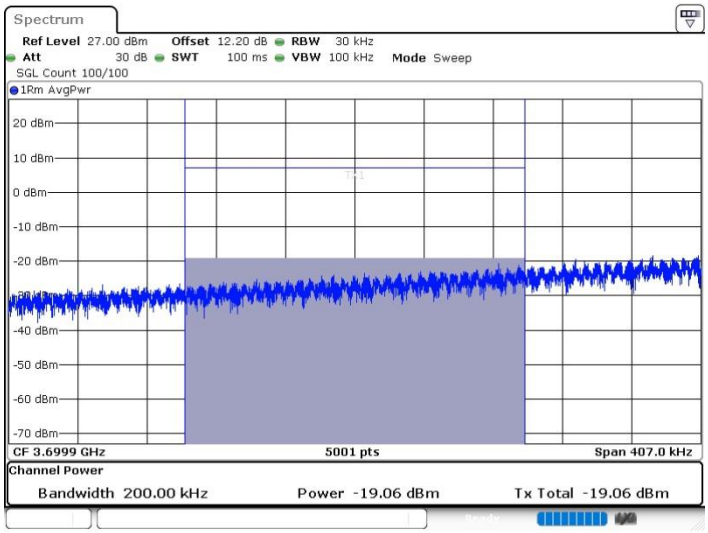


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69284 GHz	-32.60 dBm	-19.60 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69898 GHz	-22.94 dBm	-9.94 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.70000 GHz*	-9.62 dBm*	3.38 dB*
3.700 GHz	3.800 GHz	100.000 kHz	3.70057 GHz	23.15 dBm	-6.85 dB

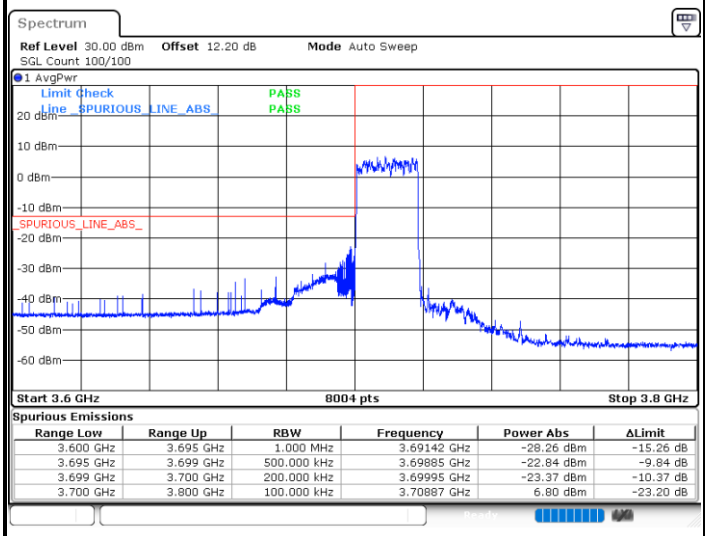
Date: 13.MAR.2021 06:32:18

Channel Power < -13dBm Pass



Date: 13.MAR.2021 08:42:58

Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69142 GHz	-28.26 dBm	-15.26 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69885 GHz	-22.84 dBm	-9.84 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.69995 GHz	-23.37 dBm	-10.37 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70887 GHz	6.80 dBm	-23.20 dB

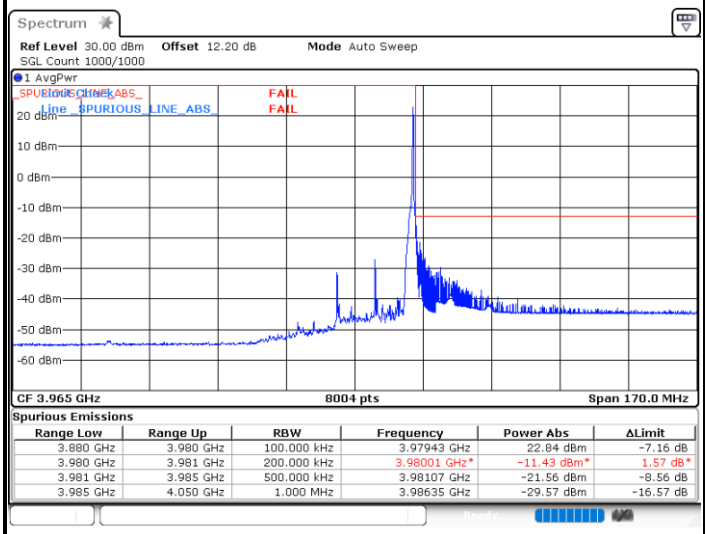
Date: 13.MAR.2021 06:32:39

Channel Power < -13dBm Pass

/

FR1 n77 / 20MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

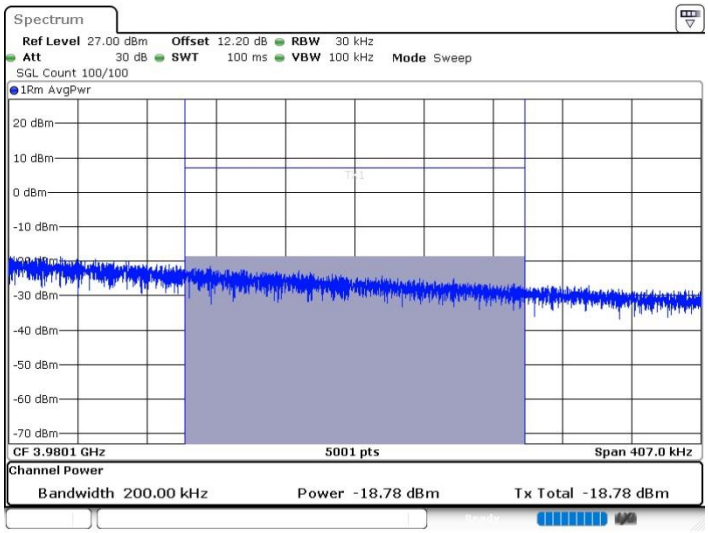


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97943 GHz	22.84 dBm	-7.16 dB
3.980 GHz	3.981 GHz	200.000 kHz	3.98001 GHz*	-11.43 dBm*	1.57 dB*
3.981 GHz	3.985 GHz	500.000 kHz	3.98107 GHz	-21.56 dBm	-8.56 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98635 GHz	-29.57 dBm	-16.57 dB

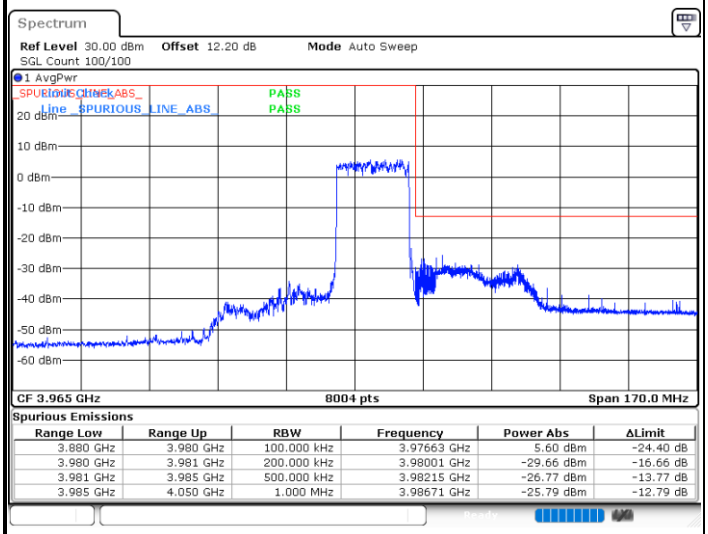
Date: 13.MAR.2021 06:47:41

Channel Power < -13dBm Pass



Date: 13.MAR.2021 08:44:31

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97663 GHz	5.60 dBm	-24.40 dB
3.980 GHz	3.981 GHz	200.000 kHz	3.98001 GHz	-29.66 dBm	-16.66 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98215 GHz	-26.77 dBm	-13.77 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98671 GHz	-25.79 dBm	-12.79 dB

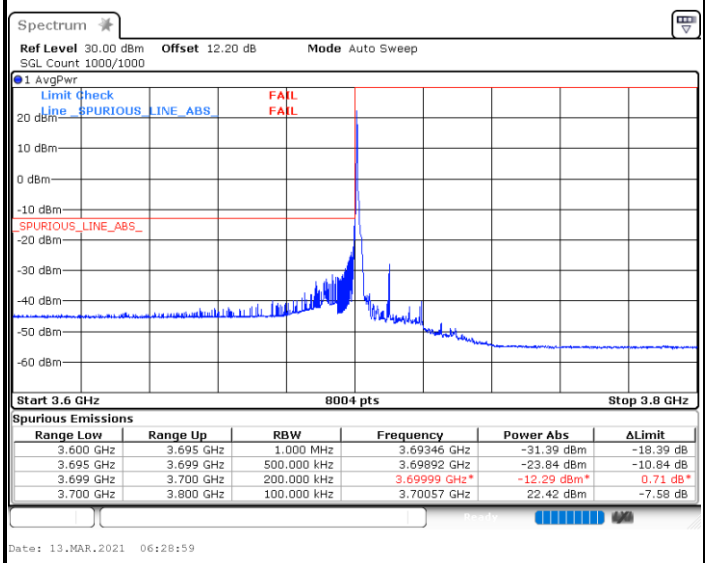
Date: 13.MAR.2021 06:33:59

Channel Power < -13dBm Pass

/

FR1 n77 / 20MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

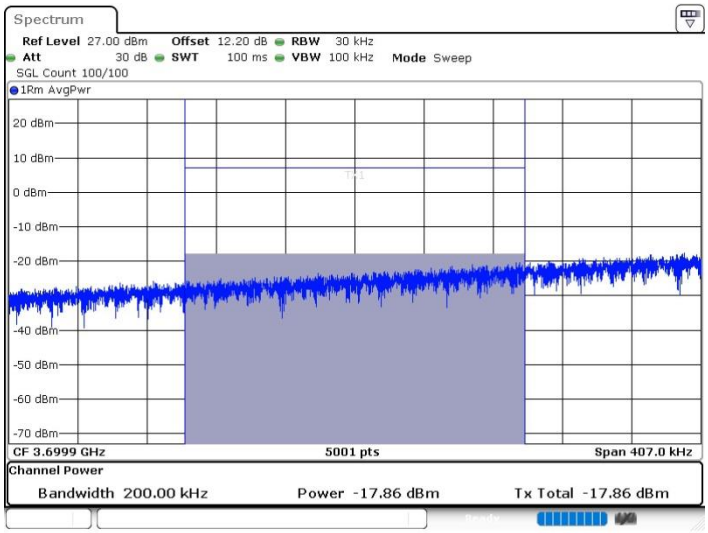


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69346 GHz	-31.39 dBm	-18.39 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69892 GHz	-23.84 dBm	-10.84 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.69999 GHz*	-12.29 dBm*	0.71 dB*
3.700 GHz	3.800 GHz	100.000 kHz	3.70057 GHz	22.42 dBm	-7.58 dB

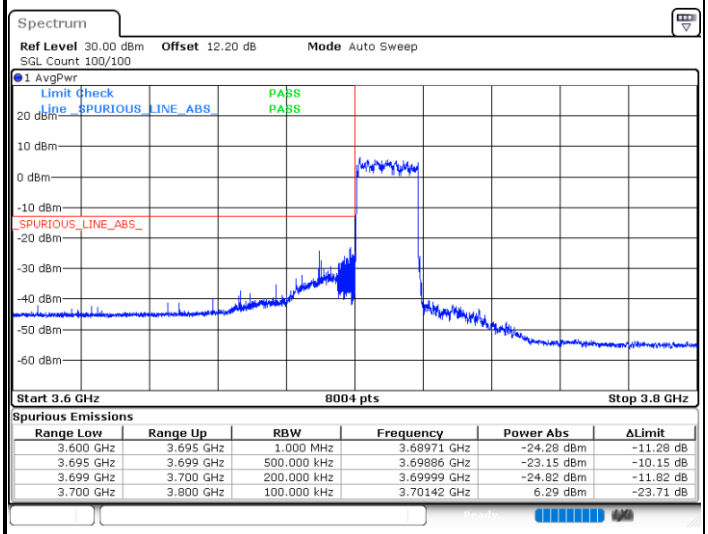
Date: 13.MAR.2021 06:28:59

Channel Power < -13dBm Pass



Date: 13.MAR.2021 08:43:29

Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.68971 GHz	-24.28 dBm	-11.28 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69886 GHz	-23.15 dBm	-10.15 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.69999 GHz	-24.82 dBm	-11.82 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70142 GHz	6.29 dBm	-23.71 dB

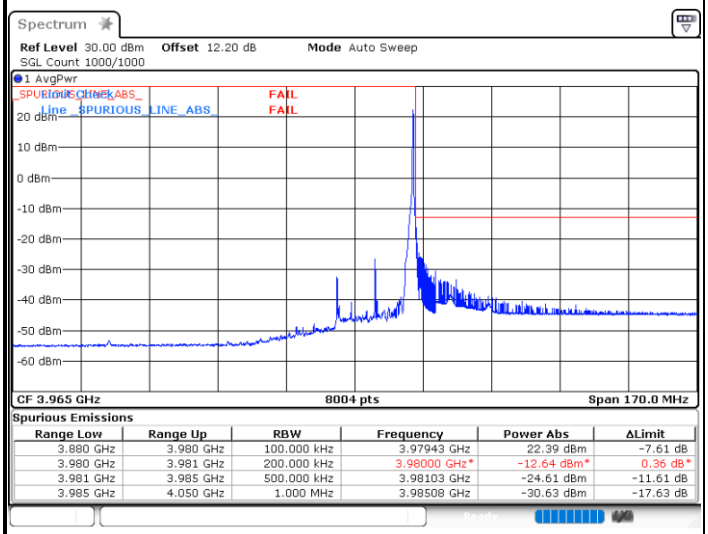
Date: 13.MAR.2021 06:32:58

Channel Power < -13dBm Pass

/

FR1 n77 / 20MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

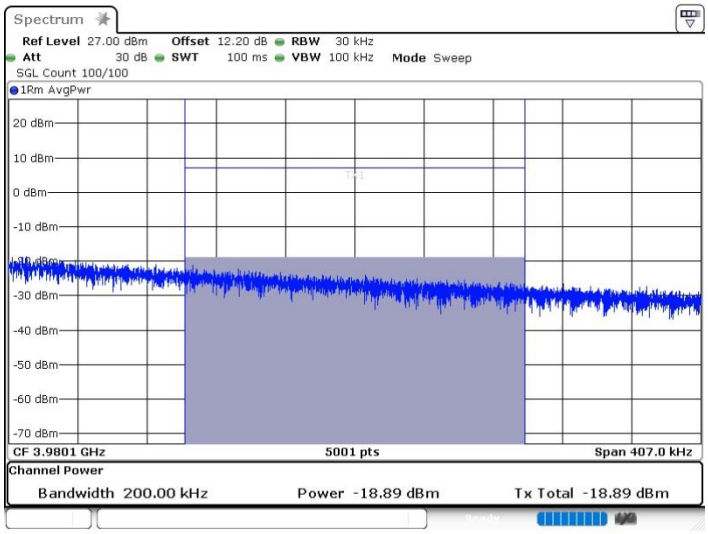


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97943 GHz	22.39 dBm	-7.61 dB
3.980 GHz	3.981 GHz	200.000 kHz	3.98000 GHz*	-12.64 dBm*	0.36 dB*
3.981 GHz	3.985 GHz	500.000 kHz	3.98103 GHz	-24.61 dBm	-11.61 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98508 GHz	-30.63 dBm	-17.63 dB

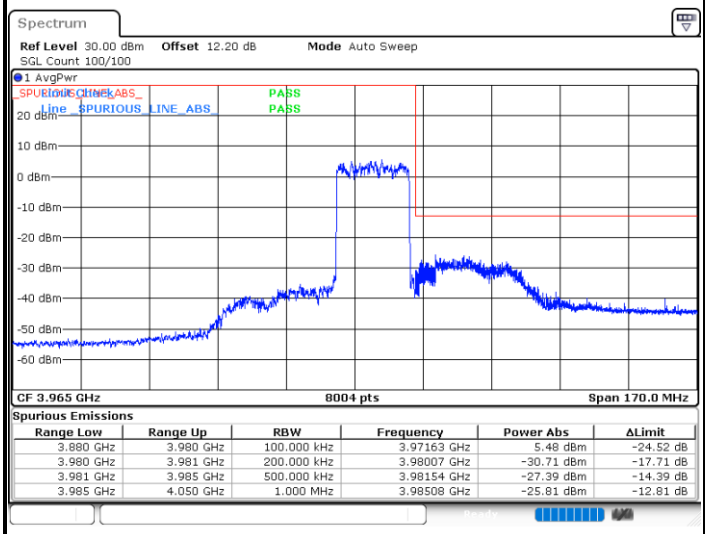
Date: 13.MAR.2021 06:53:48

Channel Power < -13dBm Pass



Date: 13.MAR.2021 08:44:14

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97163 GHz	5.48 dBm	-24.52 dB
3.980 GHz	3.981 GHz	200.000 kHz	3.98007 GHz	-30.71 dBm	-17.71 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98154 GHz	-27.39 dBm	-14.39 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98508 GHz	-25.81 dBm	-12.81 dB

Date: 13.MAR.2021 06:33:22

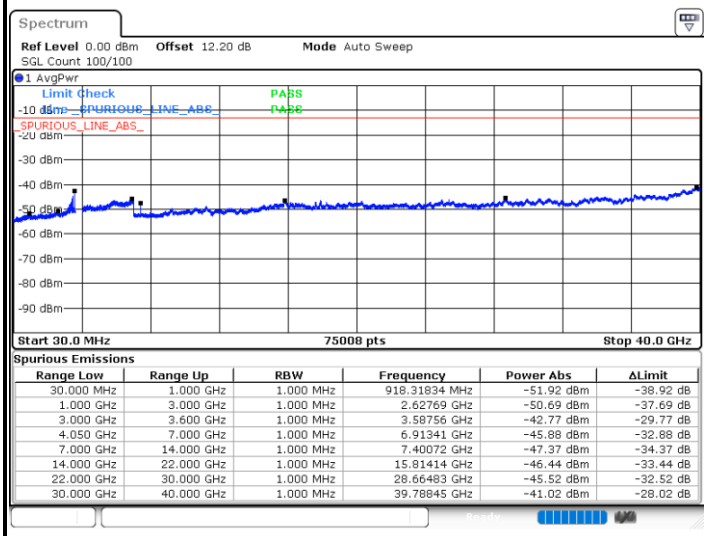
Channel Power < -13dBm Pass

/

Conducted Spurious Emission

FR1 n77 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

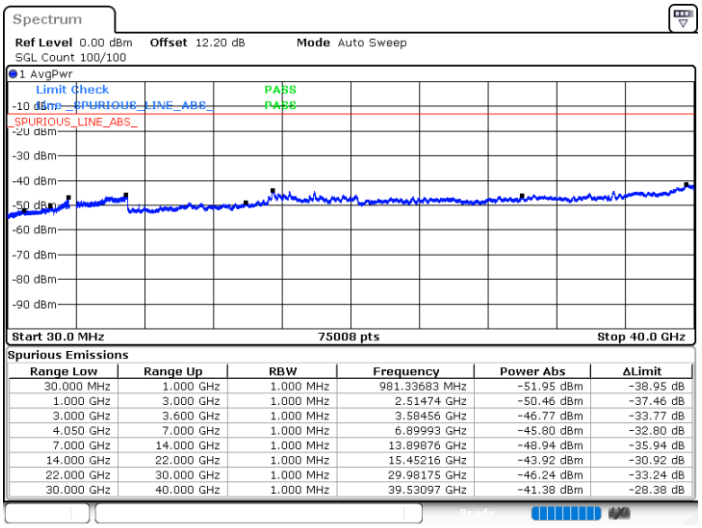


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	918.31834 MHz	-51.92 dBm	-38.92 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62769 GHz	-50.69 dBm	-37.69 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.58756 GHz	-42.77 dBm	-29.77 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91341 GHz	-45.88 dBm	-32.88 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.40072 GHz	-47.37 dBm	-34.37 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.81414 GHz	-46.44 dBm	-33.44 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66483 GHz	-45.52 dBm	-32.52 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.78845 GHz	-41.02 dBm	-28.02 dB

Date: 4.MAR.2021 06:01:27

Middle Channel / 1RB

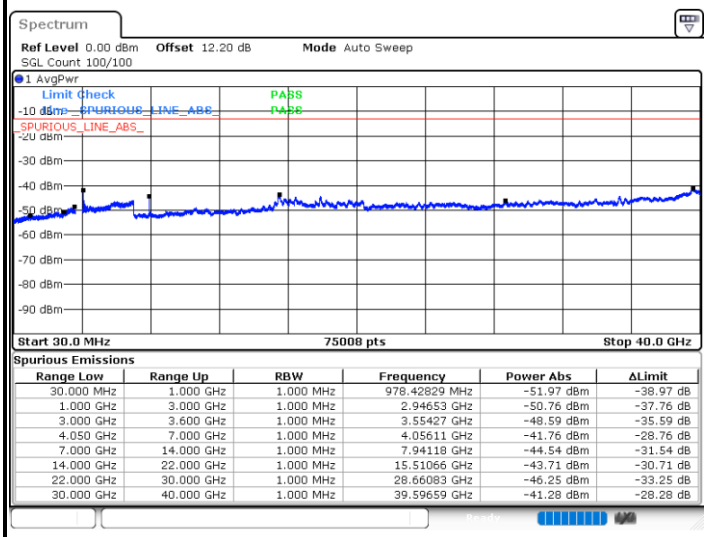


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	981.33683 MHz	-51.95 dBm	-38.95 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.51474 GHz	-50.46 dBm	-37.46 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.58456 GHz	-46.77 dBm	-33.77 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.89993 GHz	-45.80 dBm	-32.80 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89876 GHz	-48.94 dBm	-35.94 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.45216 GHz	-43.92 dBm	-30.92 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.98175 GHz	-46.24 dBm	-33.24 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.53097 GHz	-41.38 dBm	-28.38 dB

Date: 9.FEB.2021 11:19:45

Highest Channel / 1RB



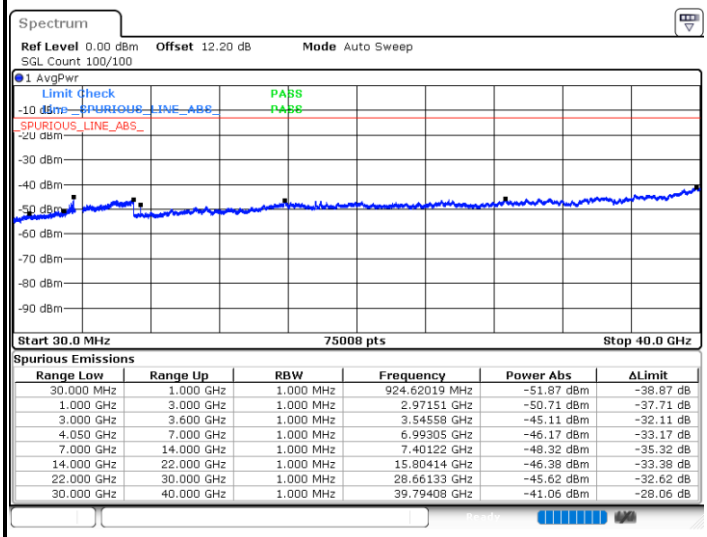
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	978.42829 MHz	-51.97 dBm	-38.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.94653 GHz	-50.76 dBm	-37.76 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.55427 GHz	-48.59 dBm	-35.59 dB
4.050 GHz	7.000 GHz	1.000 MHz	4.05611 GHz	-41.76 dBm	-28.76 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.94118 GHz	-44.54 dBm	-31.54 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51066 GHz	-43.71 dBm	-30.71 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66083 GHz	-46.25 dBm	-33.25 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.59659 GHz	-41.28 dBm	-28.28 dB

Date: 9.FEB.2021 11:26:10

FR1 n77 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

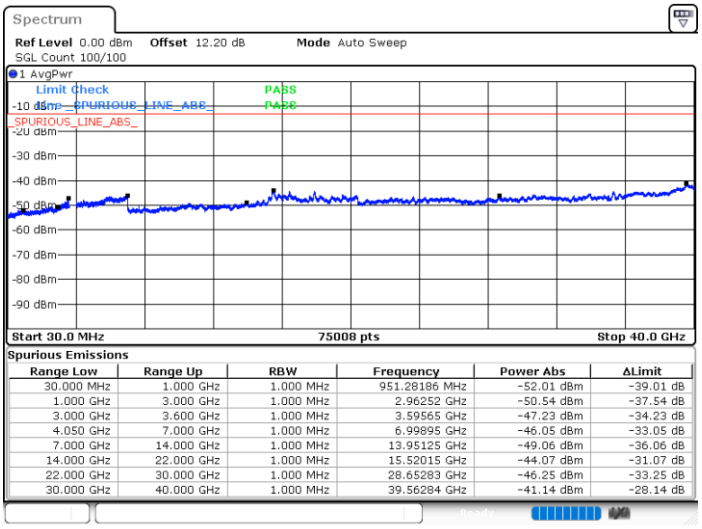


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	924.62019 MHz	-51.87 dBm	-38.87 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97151 GHz	-50.71 dBm	-37.71 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.54558 GHz	-45.11 dBm	-32.11 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.99305 GHz	-46.17 dBm	-33.17 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.40122 GHz	-48.32 dBm	-35.32 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.80414 GHz	-46.38 dBm	-33.38 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66133 GHz	-45.62 dBm	-32.62 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.79408 GHz	-41.06 dBm	-28.06 dB

Date: 4.MAR.2021 05:59:57

Middle Channel / 1RB

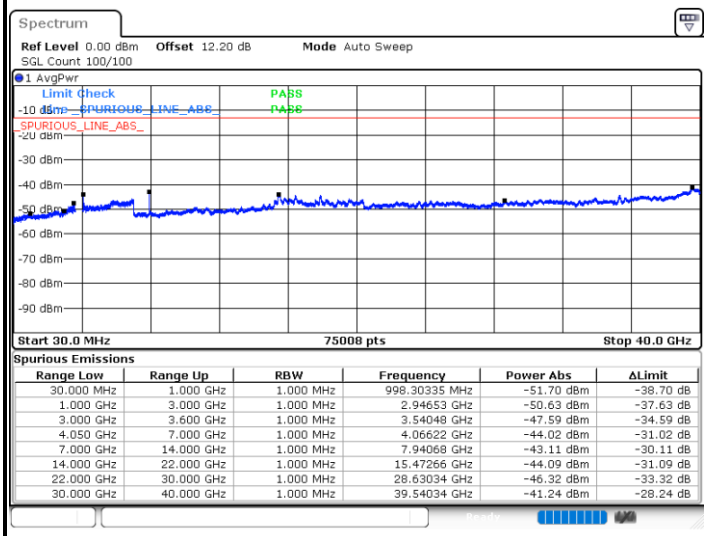


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	951.28186 MHz	-52.01 dBm	-39.01 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96252 GHz	-50.54 dBm	-37.54 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.59565 GHz	-47.23 dBm	-34.23 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.99895 GHz	-46.05 dBm	-33.05 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.95125 GHz	-49.06 dBm	-36.06 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.52015 GHz	-44.07 dBm	-31.07 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65283 GHz	-46.25 dBm	-33.25 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56284 GHz	-41.14 dBm	-28.14 dB

Date: 9.FEB.2021 11:21:44

Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	998.30335 MHz	-51.70 dBm	-38.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.94653 GHz	-50.63 dBm	-37.63 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.54048 GHz	-47.59 dBm	-34.59 dB
4.050 GHz	7.000 GHz	1.000 MHz	4.06622 GHz	-44.02 dBm	-31.02 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.94068 GHz	-43.11 dBm	-30.11 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.47266 GHz	-44.09 dBm	-31.09 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63034 GHz	-46.32 dBm	-33.32 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.54034 GHz	-41.24 dBm	-28.24 dB

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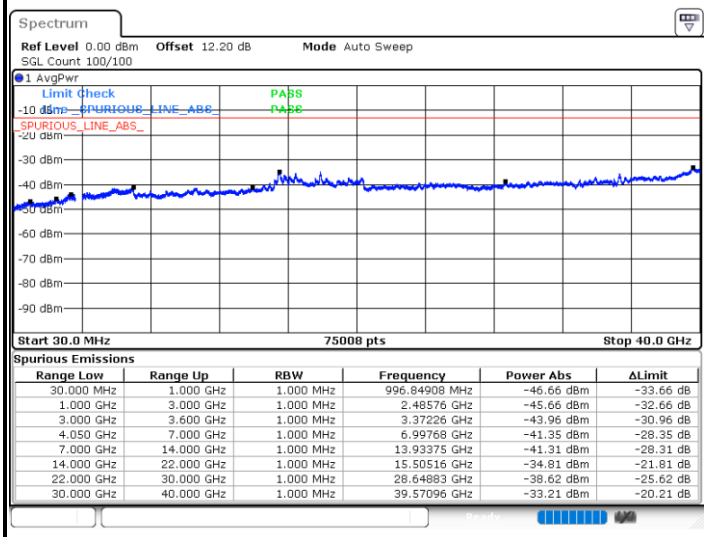
FR1 n77 / 15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.84908 MHz	-46.66 dBm	-33.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.48576 GHz	-45.66 dBm	-32.66 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.37226 GHz	-43.96 dBm	-30.96 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.99768 GHz	-41.35 dBm	-28.35 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.93375 GHz	-41.31 dBm	-28.31 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50516 GHz	-34.81 dBm	-21.81 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64883 GHz	-38.62 dBm	-25.62 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57096 GHz	-33.21 dBm	-20.21 dB

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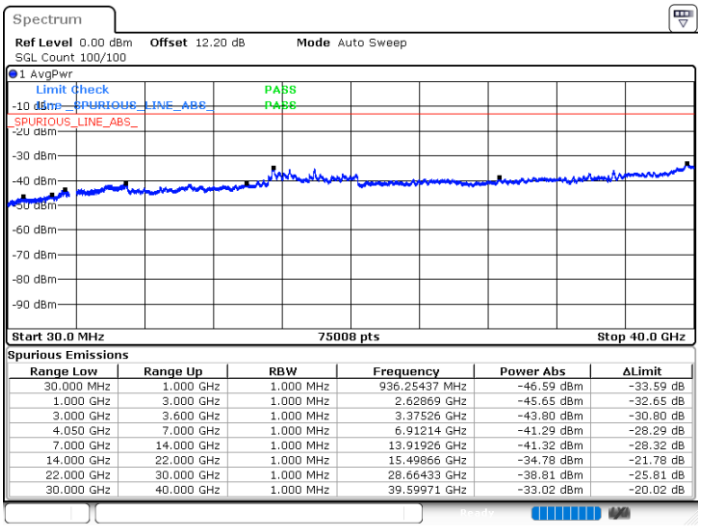
Middle Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	936.25437 MHz	-46.59 dBm	-33.59 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62869 GHz	-45.65 dBm	-32.65 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.37526 GHz	-43.80 dBm	-30.80 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91214 GHz	-41.29 dBm	-28.29 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.91926 GHz	-41.32 dBm	-28.32 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49866 GHz	-34.78 dBm	-21.78 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66433 GHz	-38.81 dBm	-25.81 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.59971 GHz	-33.02 dBm	-20.02 dB

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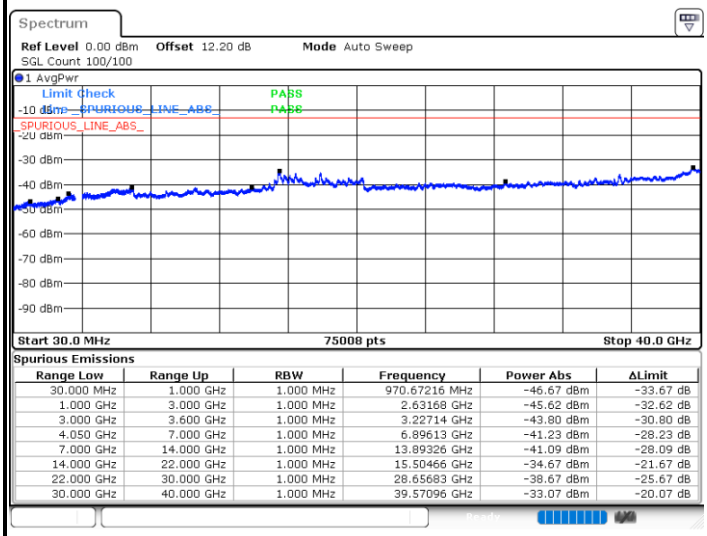
Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	970.67216 MHz	-46.67 dBm	-33.67 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63168 GHz	-45.62 dBm	-32.62 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.22714 GHz	-43.80 dBm	-30.80 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.89613 GHz	-41.23 dBm	-28.23 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89326 GHz	-41.09 dBm	-28.09 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50466 GHz	-34.67 dBm	-21.67 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65683 GHz	-38.67 dBm	-25.67 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57096 GHz	-33.07 dBm	-20.07 dB

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