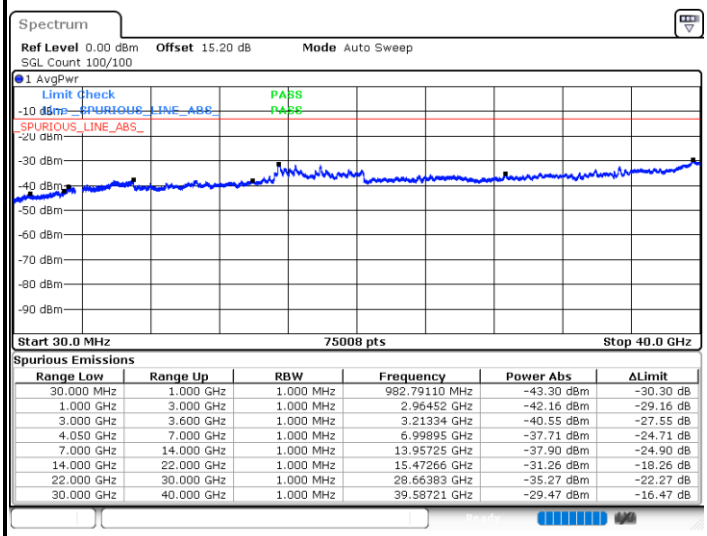
FR1 UL-MIMO n77 / 50MHz / CP-OFDM QPSK (M)

Lowest Channel / 1RB

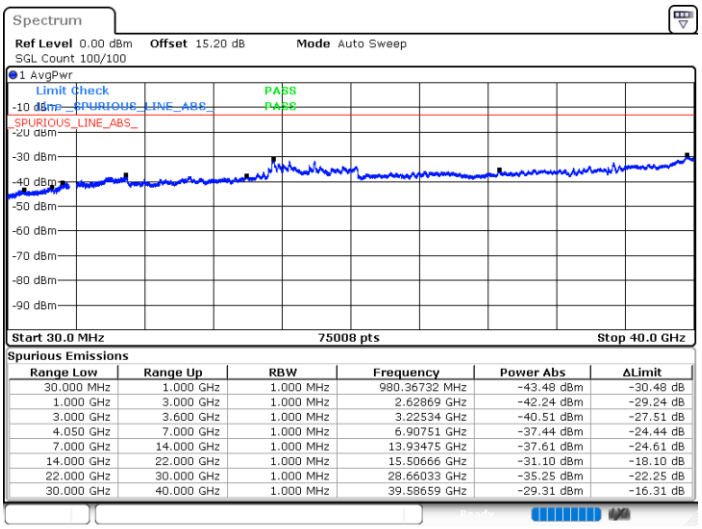


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	982.79110 MHz	-43.30 dBm	-30.30 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96452 GHz	-42.16 dBm	-29.16 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.21334 GHz	-40.55 dBm	-27.55 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.99895 GHz	-37.71 dBm	-24.71 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.95725 GHz	-37.90 dBm	-24.90 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.47266 GHz	-31.26 dBm	-18.26 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66383 GHz	-35.27 dBm	-22.27 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58721 GHz	-29.47 dBm	-16.47 dB

Date: 13.FEB.2021 11:06:02

Middle Channel / 1RB

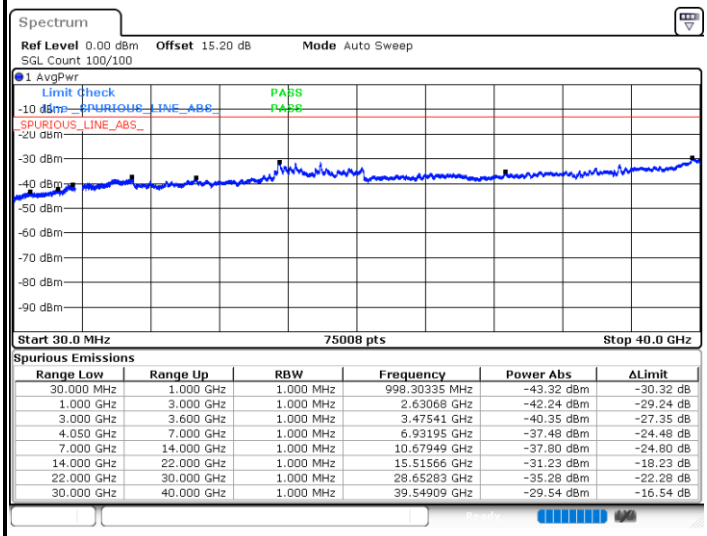


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	980.36732 MHz	-43.48 dBm	-30.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62869 GHz	-42.24 dBm	-29.24 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.22534 GHz	-40.51 dBm	-27.51 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90751 GHz	-37.44 dBm	-24.44 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.93475 GHz	-37.61 dBm	-24.61 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50666 GHz	-31.10 dBm	-18.10 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66033 GHz	-35.25 dBm	-22.25 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58659 GHz	-29.31 dBm	-16.31 dB

Date: 13.FEB.2021 11:02:08

Highest Channel / 1RB



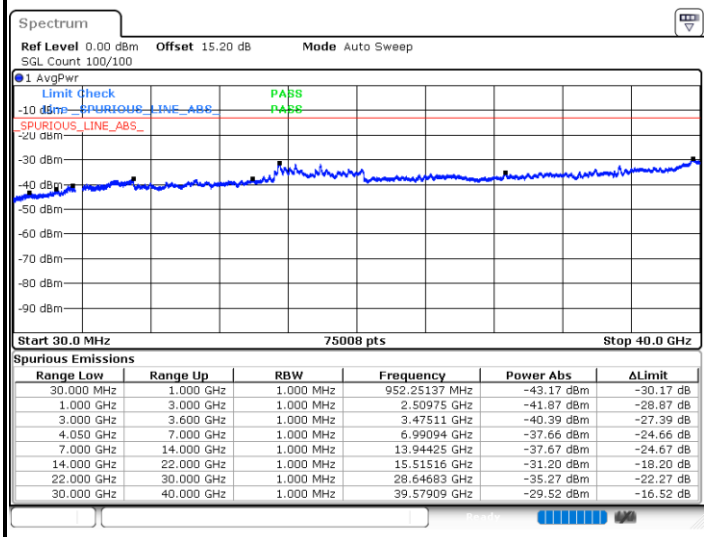
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	998.30335 MHz	-43.32 dBm	-30.32 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63068 GHz	-42.24 dBm	-29.24 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47541 GHz	-40.35 dBm	-27.35 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.93195 GHz	-37.48 dBm	-24.48 dB
7.000 GHz	14.000 GHz	1.000 MHz	10.67949 GHz	-37.80 dBm	-24.80 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51566 GHz	-31.23 dBm	-18.23 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65283 GHz	-35.28 dBm	-22.28 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.54909 GHz	-29.54 dBm	-16.54 dB

Date: 13.FEB.2021 11:43:00

FR1 UL-MIMO n77 / 100MHz / CP-OFDM QPSK (M2)

Lowest Channel / 1RB

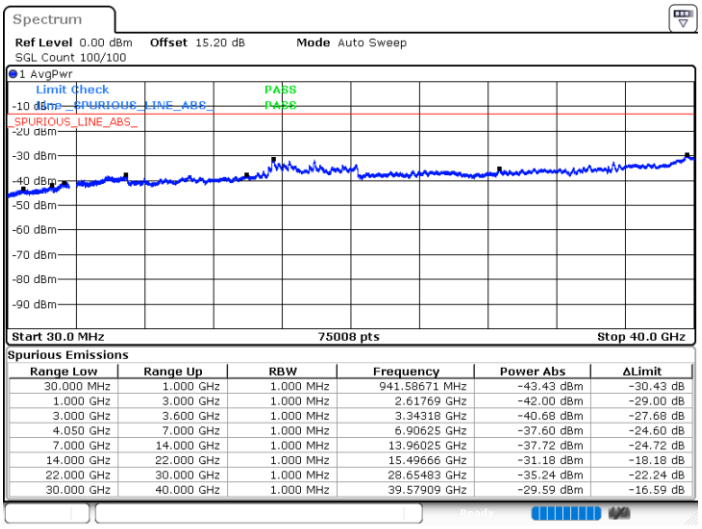


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	952.25137 MHz	-43.17 dBm	-30.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50975 GHz	-41.87 dBm	-28.87 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47511 GHz	-40.39 dBm	-27.39 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.99094 GHz	-37.66 dBm	-24.66 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.94425 GHz	-37.67 dBm	-24.67 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51516 GHz	-31.20 dBm	-18.20 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64683 GHz	-35.27 dBm	-22.27 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57909 GHz	-29.52 dBm	-16.52 dB

Date: 13.FEB.2021 14:06:16

Middle Channel / 1RB

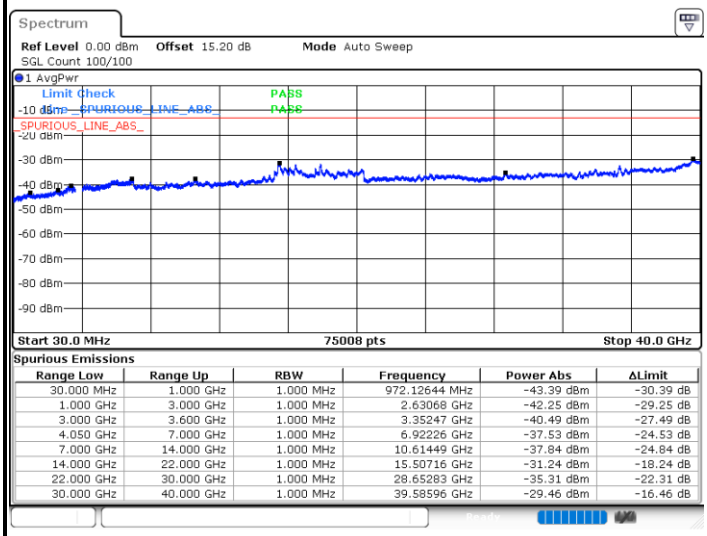


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	941.58671 MHz	-43.43 dBm	-30.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.61769 GHz	-42.00 dBm	-29.00 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.34318 GHz	-40.68 dBm	-27.68 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90625 GHz	-37.60 dBm	-24.60 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.96025 GHz	-37.72 dBm	-24.72 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49666 GHz	-31.18 dBm	-18.18 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65483 GHz	-35.24 dBm	-22.24 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57909 GHz	-29.59 dBm	-16.59 dB

Date: 13.FEB.2021 13:55:13

Highest Channel / 1RB



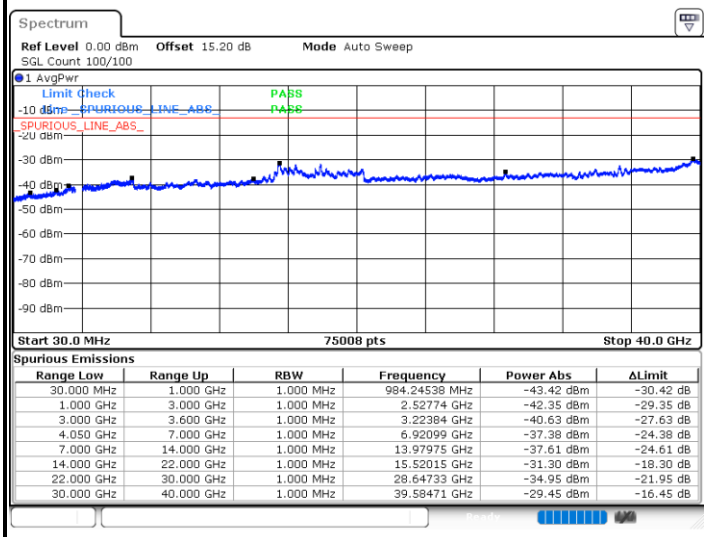
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	972.12644 MHz	-43.39 dBm	-30.39 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63068 GHz	-42.25 dBm	-29.25 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.35247 GHz	-40.49 dBm	-27.49 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.92226 GHz	-37.53 dBm	-24.53 dB
7.000 GHz	14.000 GHz	1.000 MHz	10.61449 GHz	-37.84 dBm	-24.84 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50716 GHz	-31.24 dBm	-18.24 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65283 GHz	-35.31 dBm	-22.31 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58596 GHz	-29.46 dBm	-16.46 dB

Date: 13.FEB.2021 14:25:18

FR1 UL-MIMO n77 / 100MHz / CP-OFDM QPSK (M)

Lowest Channel / 1RB

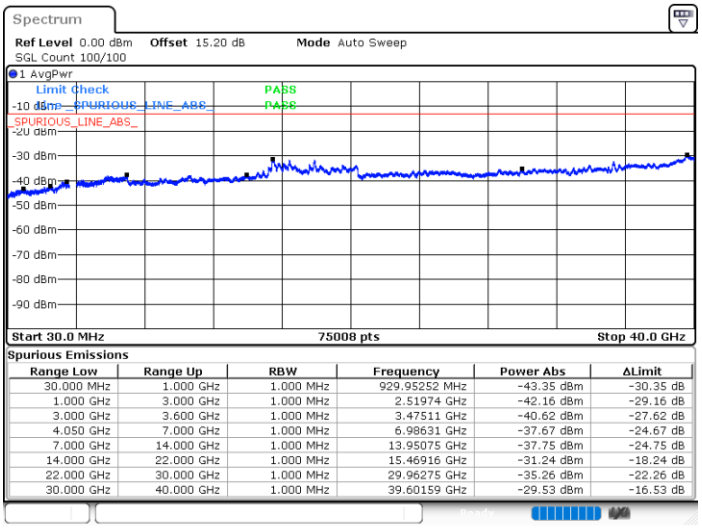


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	984.24538 MHz	-43.42 dBm	-30.42 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.52774 GHz	-42.35 dBm	-29.35 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.22384 GHz	-40.63 dBm	-27.63 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.92099 GHz	-37.38 dBm	-24.38 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.97975 GHz	-37.61 dBm	-24.61 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.52015 GHz	-31.30 dBm	-18.30 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64733 GHz	-34.95 dBm	-21.95 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58471 GHz	-29.45 dBm	-16.45 dB

Date: 13.FEB.2021 10:09:02

Middle Channel / 1RB

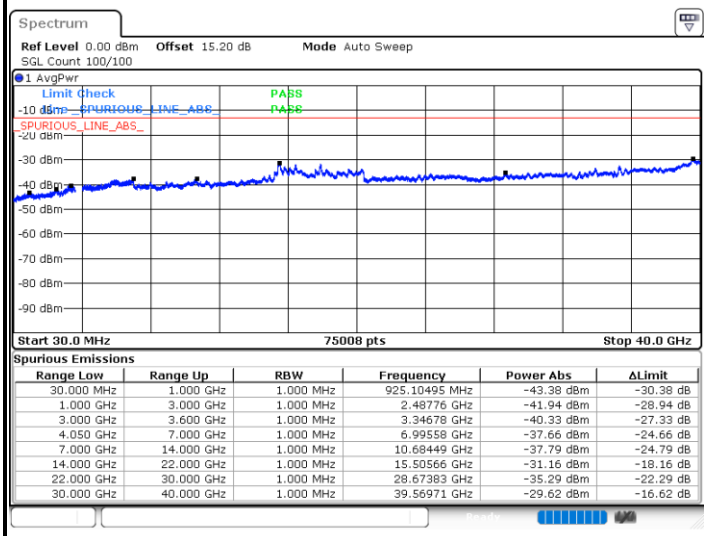


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	929.95252 MHz	-43.35 dBm	-30.35 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.51974 GHz	-42.16 dBm	-29.16 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47511 GHz	-40.62 dBm	-27.62 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.98631 GHz	-37.67 dBm	-24.67 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.95075 GHz	-37.75 dBm	-24.75 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.46916 GHz	-31.24 dBm	-18.24 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.96275 GHz	-35.26 dBm	-22.26 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.60159 GHz	-29.53 dBm	-16.53 dB

Date: 13.FEB.2021 09:56:48

Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	925.10495 MHz	-43.38 dBm	-30.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.48776 GHz	-41.94 dBm	-28.94 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.34678 GHz	-40.33 dBm	-27.33 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.99558 GHz	-37.66 dBm	-24.66 dB
7.000 GHz	14.000 GHz	1.000 MHz	10.68449 GHz	-37.79 dBm	-24.79 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50566 GHz	-31.16 dBm	-18.16 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.67383 GHz	-35.29 dBm	-22.29 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56971 GHz	-29.62 dBm	-16.62 dB

Date: 13.FEB.2021 10:23:06

Frequency Stability

Test Conditions		NR UL-MIMO n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0023	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0025	

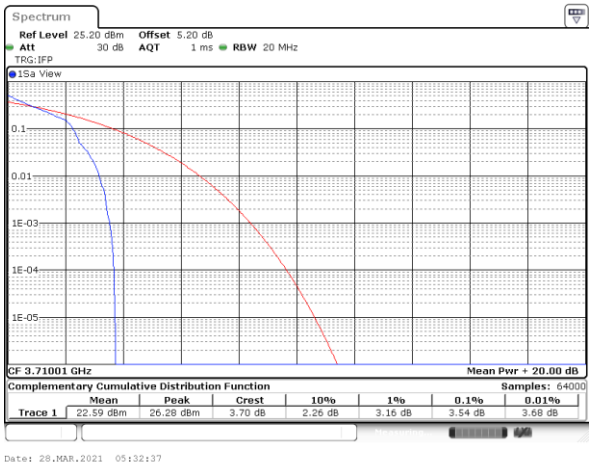
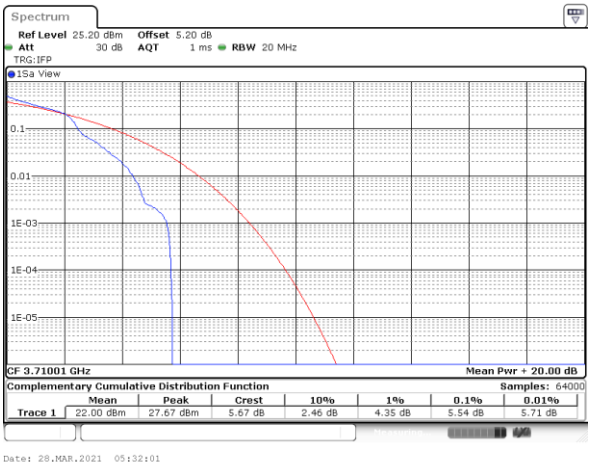
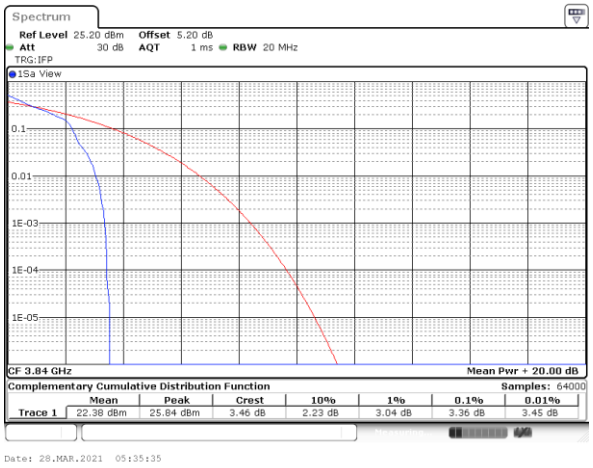
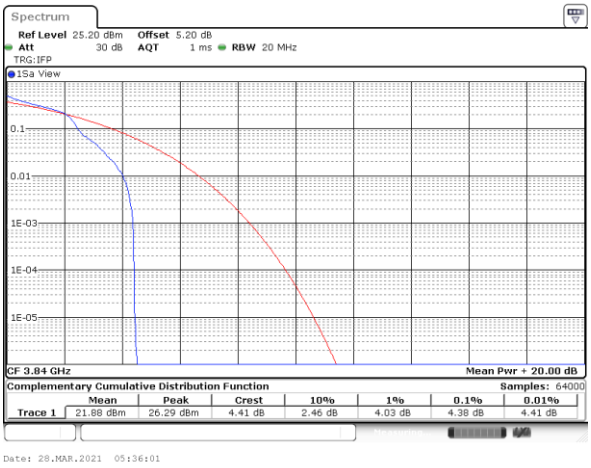
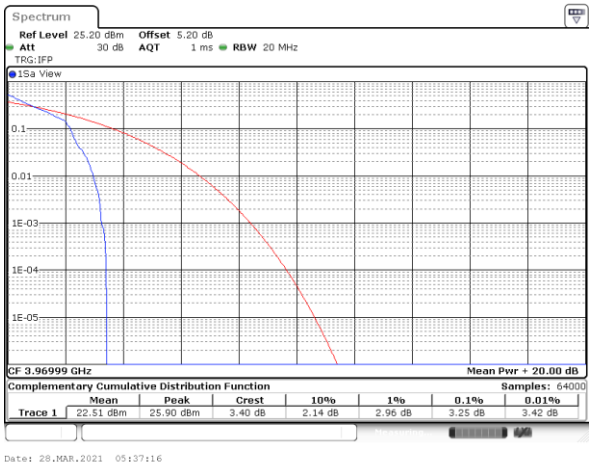
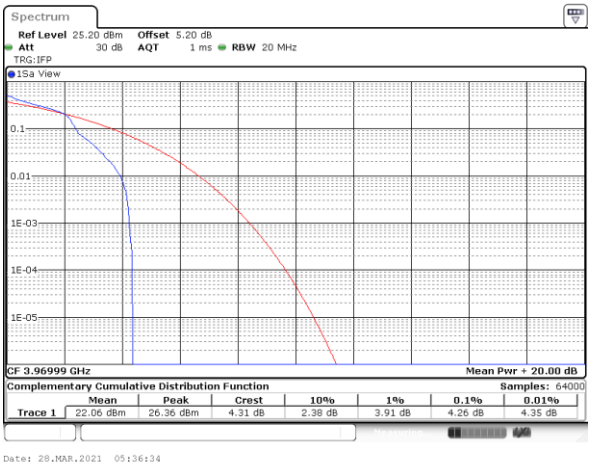
Note:

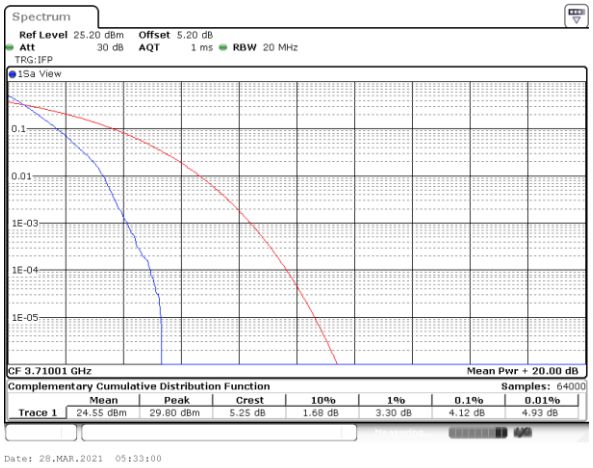
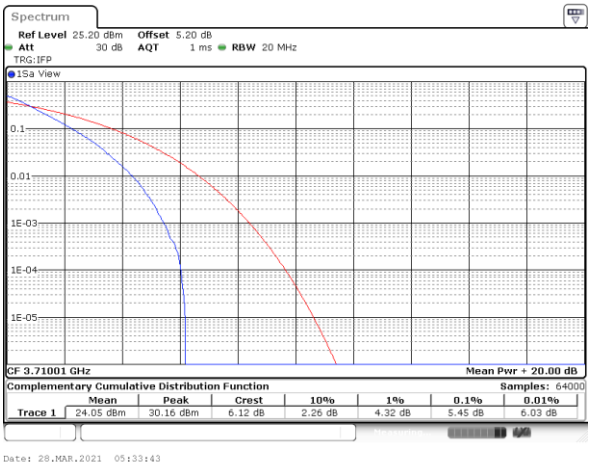
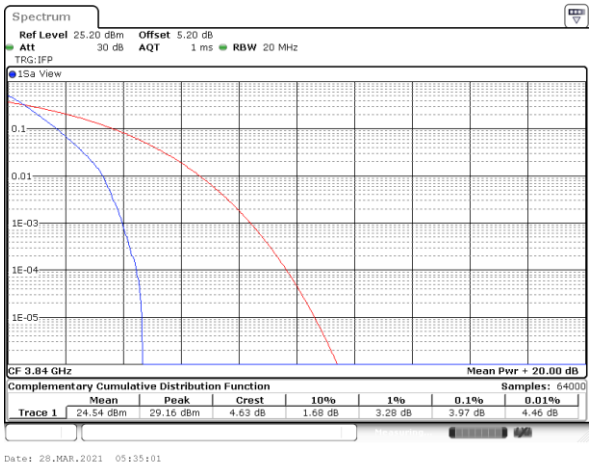
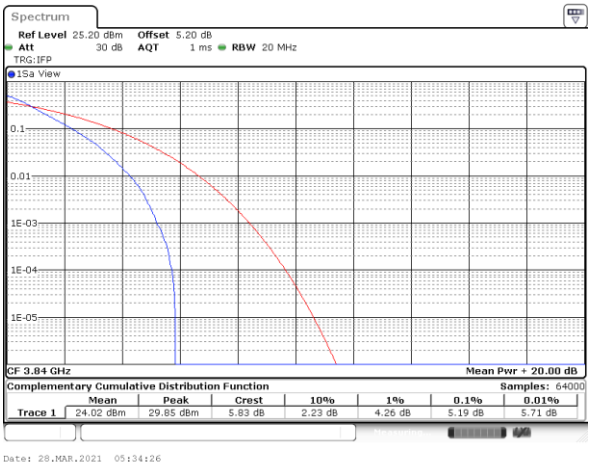
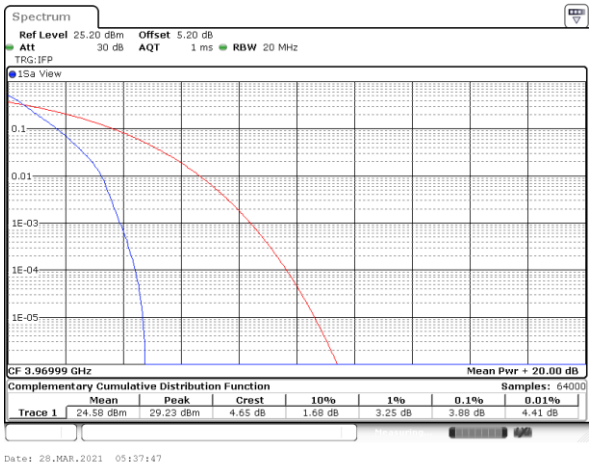
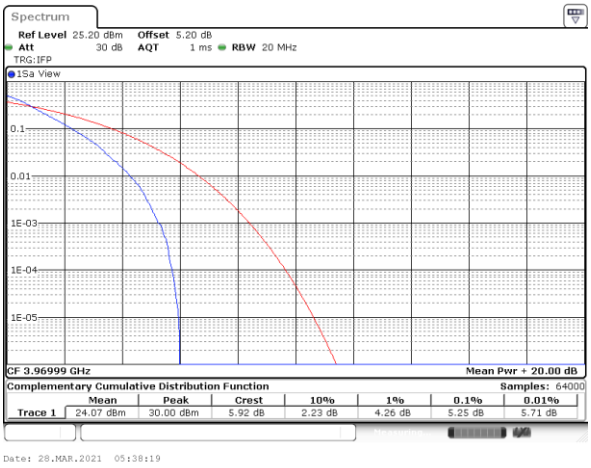
1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

5G NR n77 NSA-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	3.54	4.12	5.54	5.45	PASS
Middle CH	3.36	3.97	4.38	5.19	
Highest CH	3.25	3.88	4.26	5.25	

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	**QPSK**
Lowest Channel / Full RB	**Lowest Channel / Full RB**
	
Middle Channel / Full RB	**Middle Channel / Full RB**
	
Highest 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	9.69	9.71	9.61	9.67				

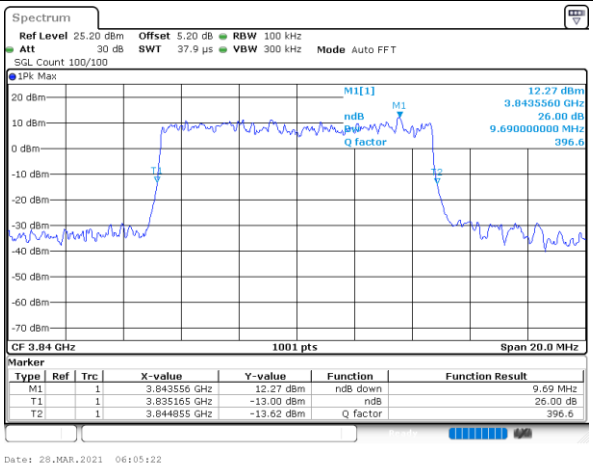
Mode	FR1 N77 : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.87	14.84	14.84	14.84				

Mode	FR1 N77 : 26dB BW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	19.86	19.74	19.70	19.70				

FR1 N77 / 10MHz / CP-OFDM

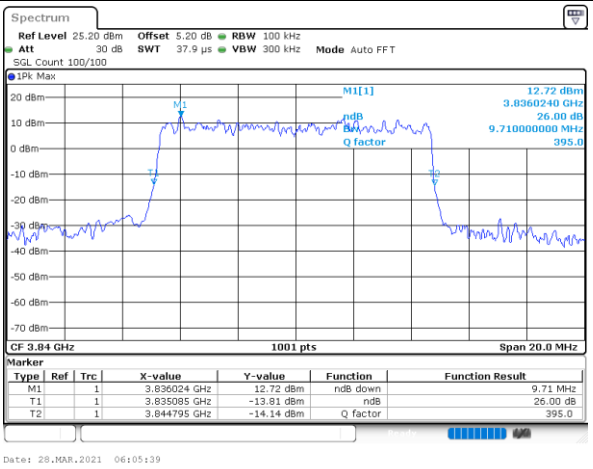
QPSK

Middle Channel



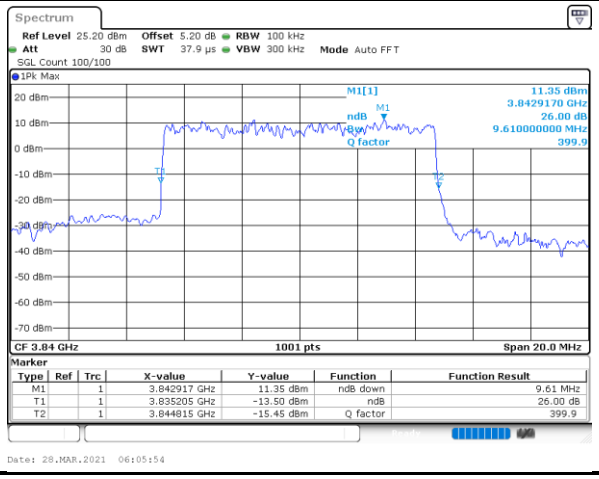
16QAM

Middle Channel



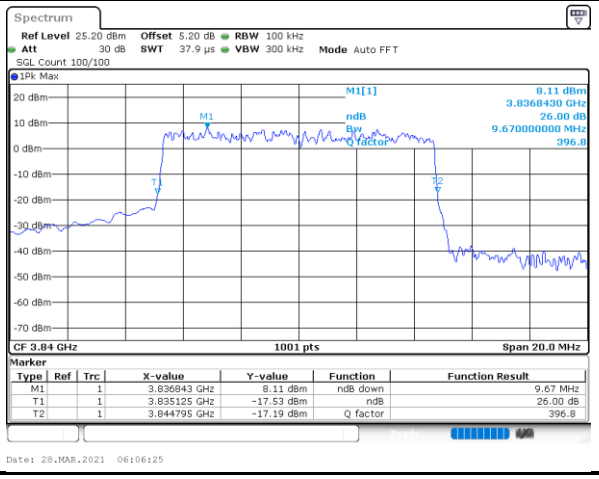
64QAM

Middle Channel



256QAM

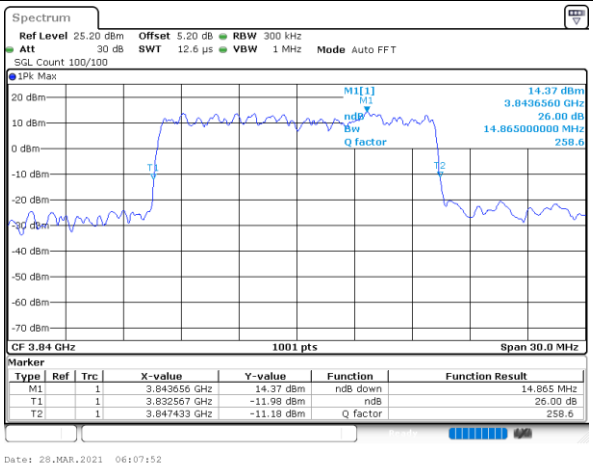
Middle Channel



FR1 N77 / 15MHz / CP-OFDM

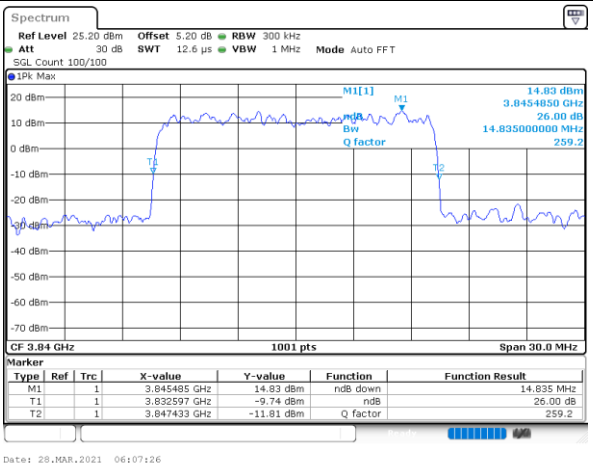
QPSK

Middle Channel



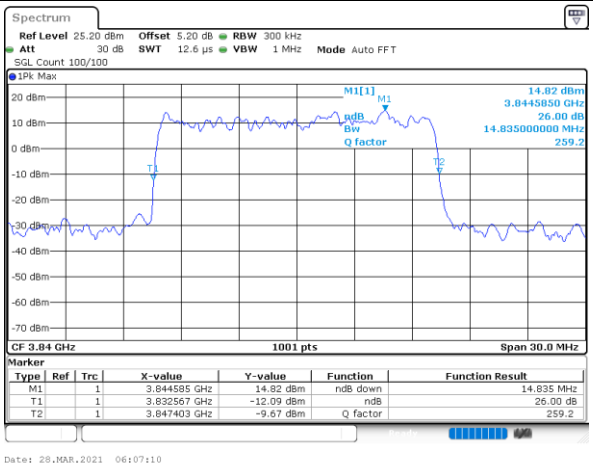
16QAM

Middle Channel



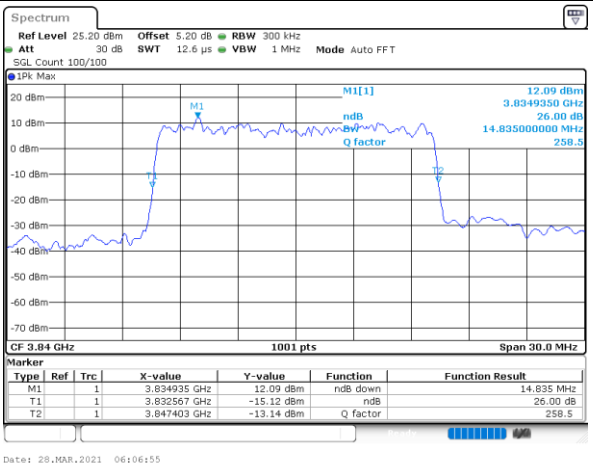
64QAM

Middle Channel



256QAM

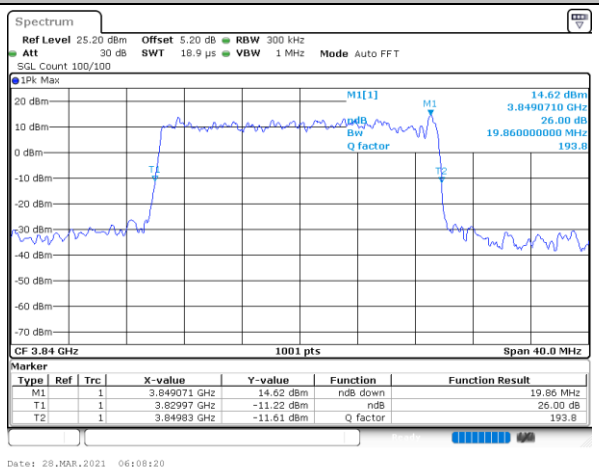
Middle Channel



FR1 N77 / 20MHz / CP-OFDM

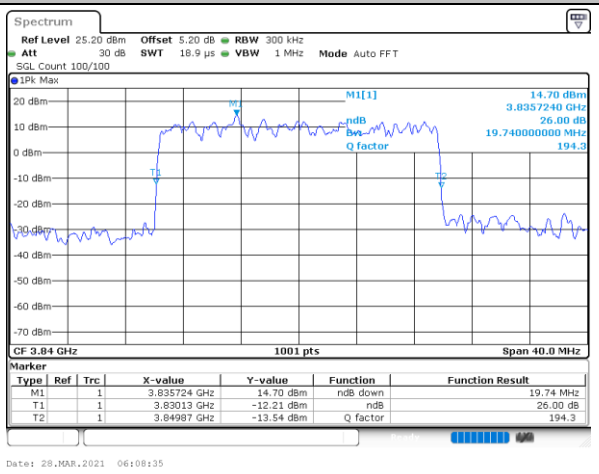
QPSK

Middle Channel



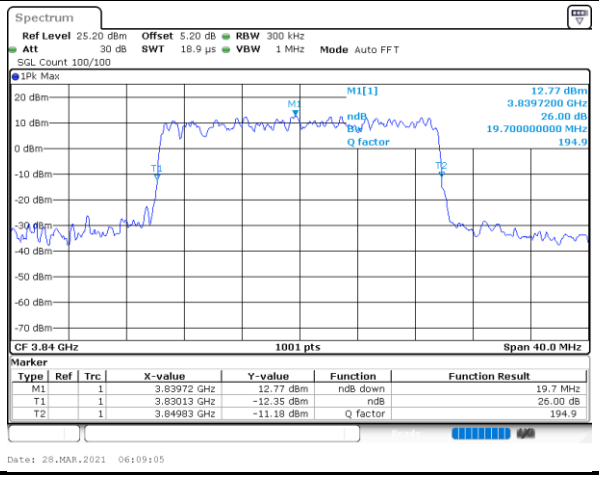
16QAM

Middle Channel



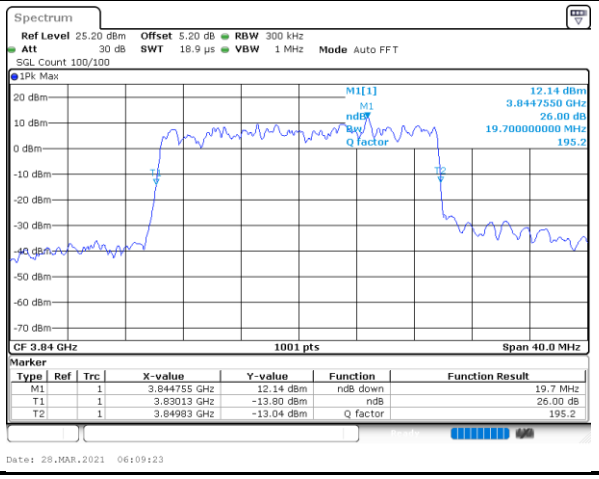
64QAM

Middle Channel



256QAM

Middle Channel



Occupied Bandwidth

Mode	FR1 N77 : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.31	9.27	9.25	9.33				

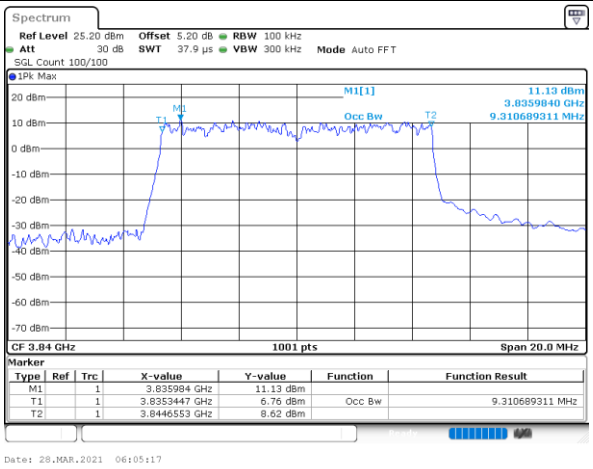
Mode	FR1 N77 : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.15	14.12	14.15	14.06				

Mode	FR1 N77 : OBW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	18.90	19.06	19.02	18.86				

FR1 N77 / 10MHz / CP-OFDM

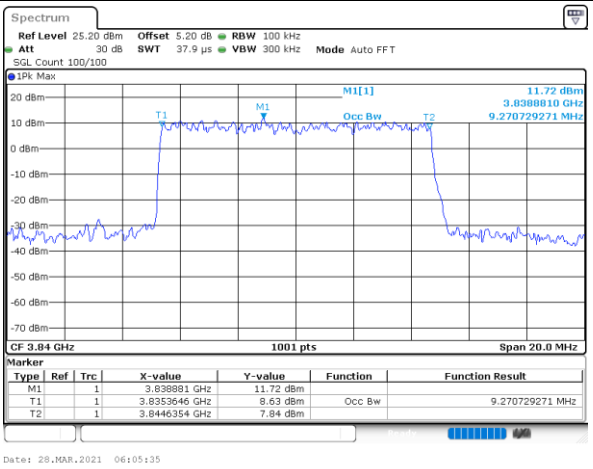
QPSK

Middle Channel



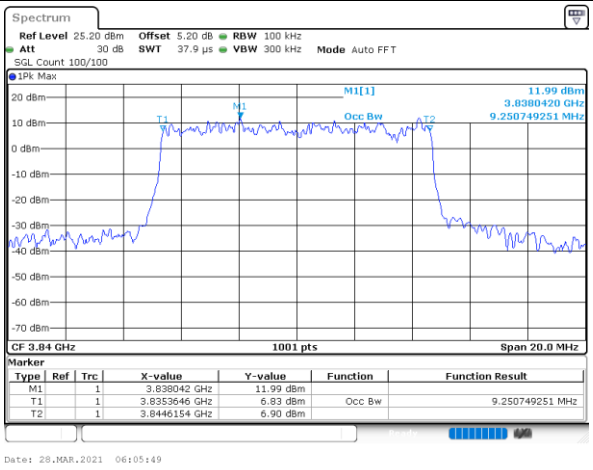
16QAM

Middle Channel



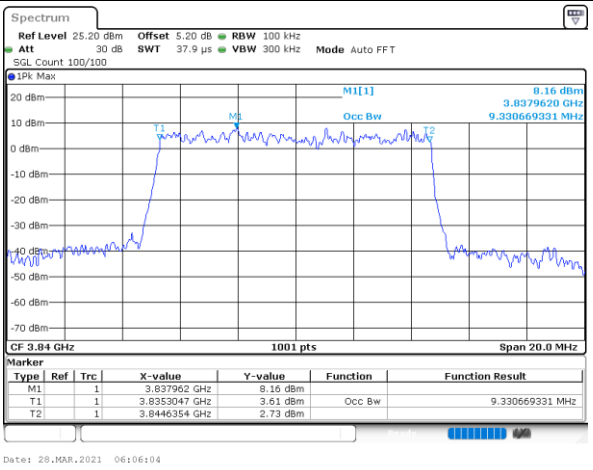
64QAM

Middle Channel



256QAM

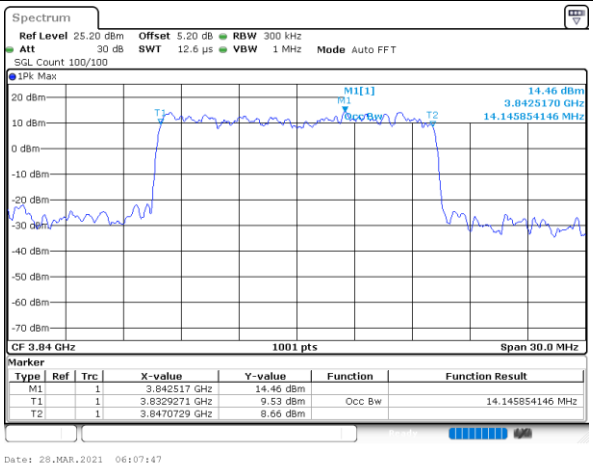
Middle Channel



FR1 N77 / 15MHz / CP-OFDM

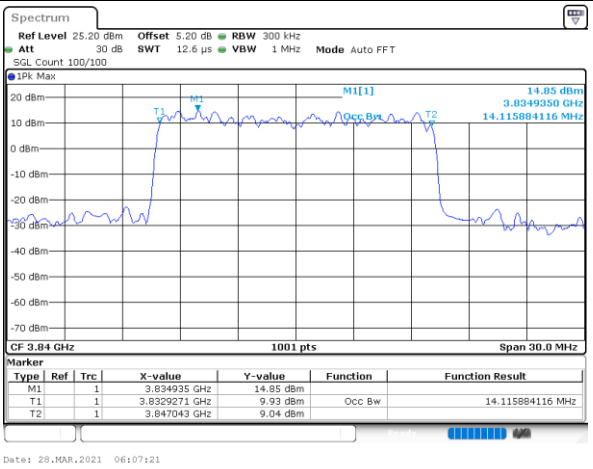
QPSK

Middle Channel



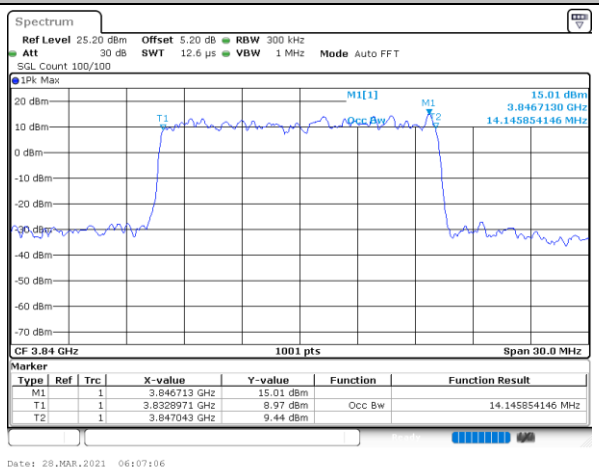
16QAM

Middle Channel



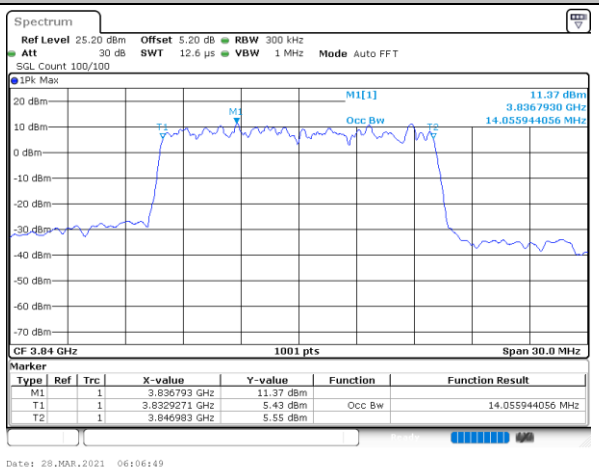
64QAM

Middle Channel



256QAM

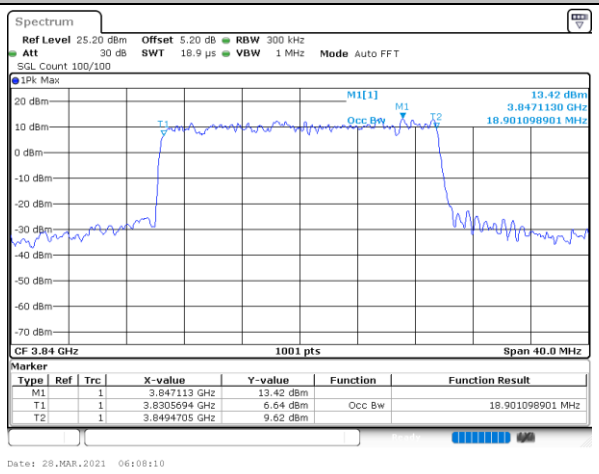
Middle Channel



FR1 N77 / 20MHz / CP-OFDM

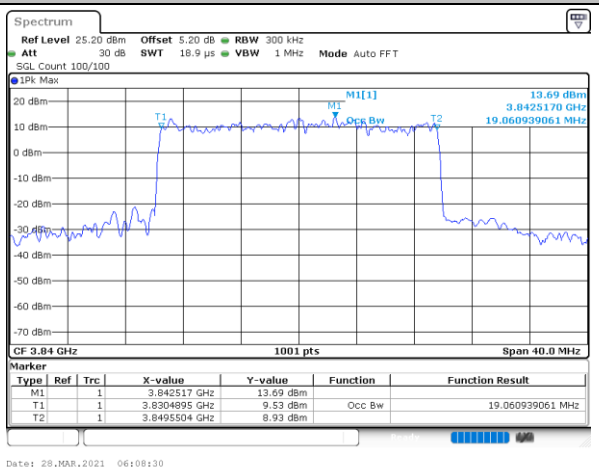
QPSK

Middle Channel



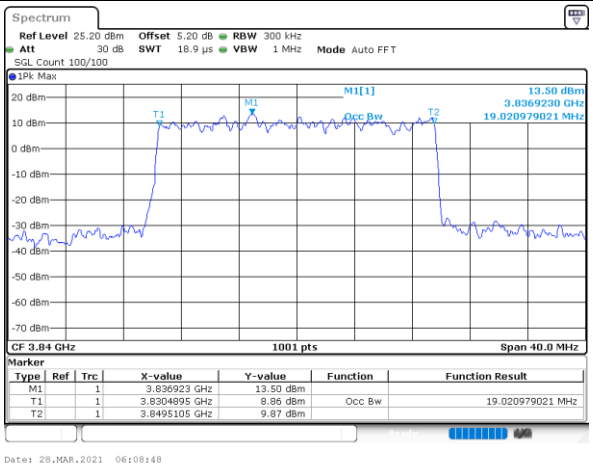
16QAM

Middle Channel



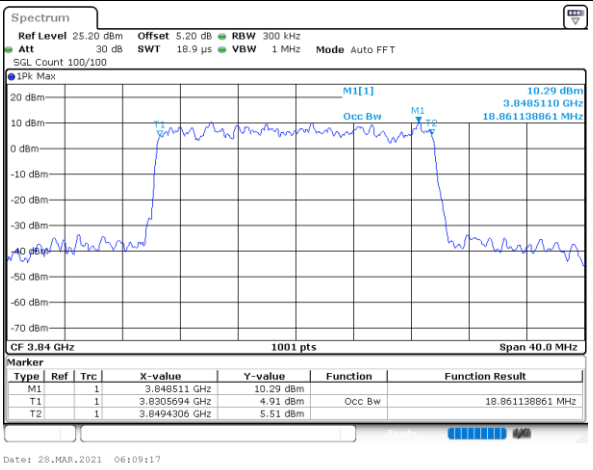
64QAM

Middle Channel



256QAM

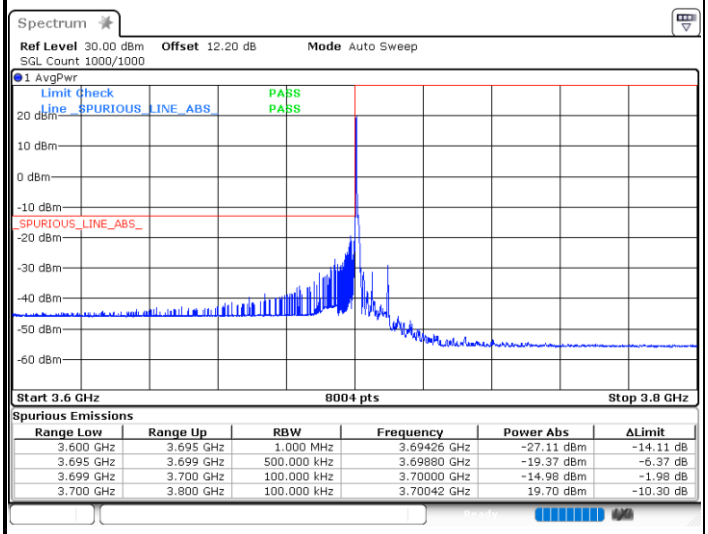
Middle Channel



Conducted Band Edge

FR1 N77 / 10MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

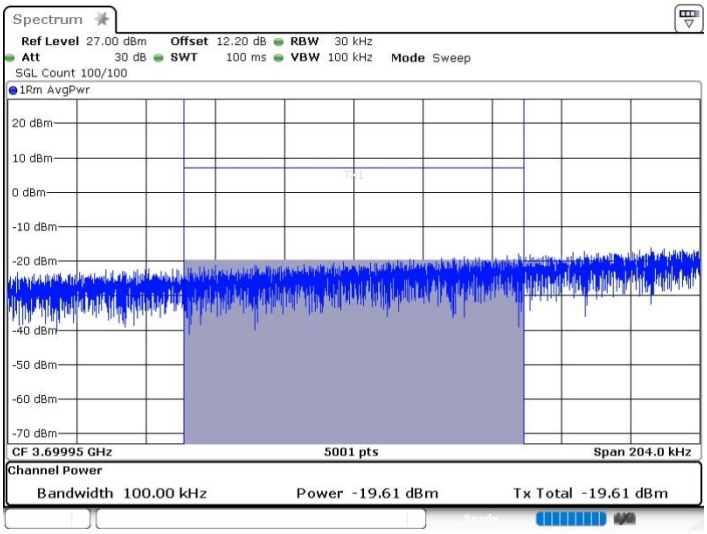


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69426 GHz	-27.11 dBm	-14.11 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69880 GHz	-19.37 dBm	-6.37 dB
3.699 GHz	3.700 GHz	100.000 kHz	3.70000 GHz	-14.98 dBm	-1.98 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70042 GHz	19.70 dBm	-10.30 dB

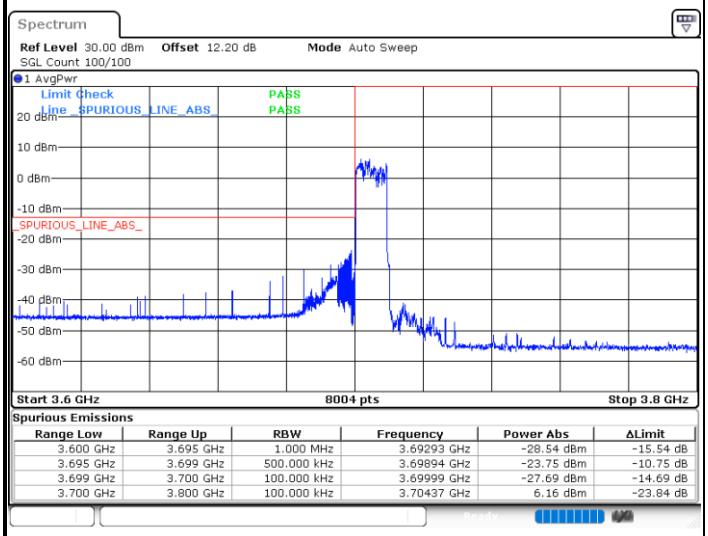
Date: 29.MAR.2021 03:06:15

Channel Power < -13dBm Pass



Date: 29.MAR.2021 03:07:20

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	3.69293 GHz	-28.54 dBm	-15.54 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69894 GHz	-23.75 dBm	-10.75 dB
3.699 GHz	3.700 GHz	100.000 kHz	3.69999 GHz	-27.69 dBm	-14.69 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70437 GHz	6.16 dBm	-23.84 dB

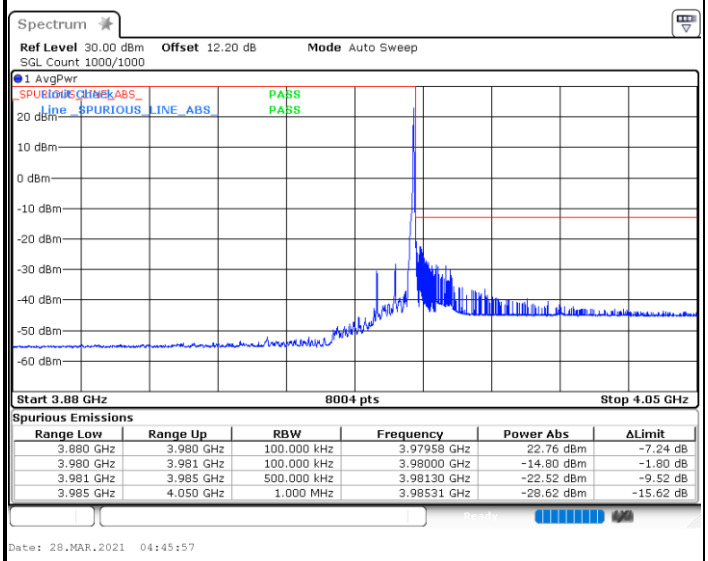
Date: 29.MAR.2021 03:02:49

Channel Power < -13dBm Pass

/

FR1 N77 / 10MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

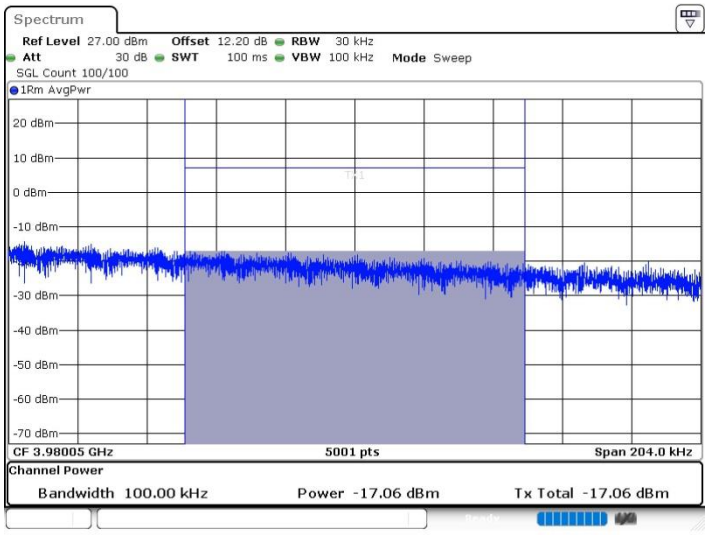


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97958 GHz	22.76 dBm	-7.24 dB
3.980 GHz	3.981 GHz	100.000 kHz	3.98000 GHz	-14.80 dBm	-1.80 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98130 GHz	-22.52 dBm	-9.52 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98531 GHz	-28.62 dBm	-15.62 dB

Date: 28.MAR.2021 04:45:57

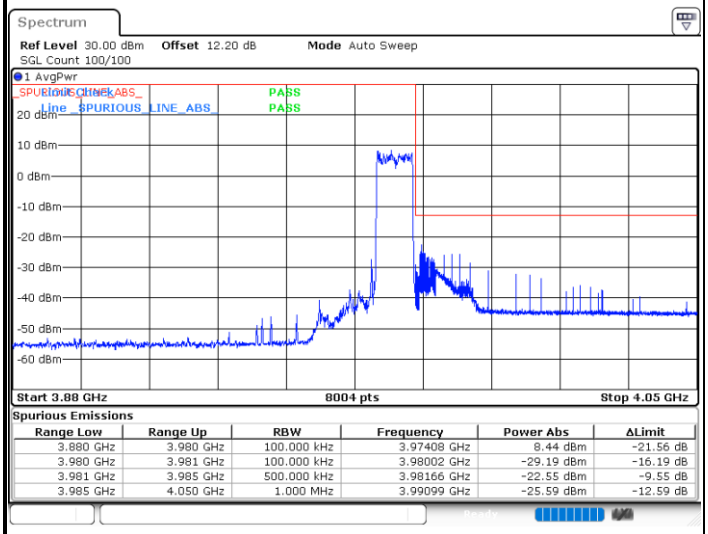
Channel Power < -13dBm Pass



Date: 28.MAR.2021 04:50:16

/

Highest Band Edge / Full RB



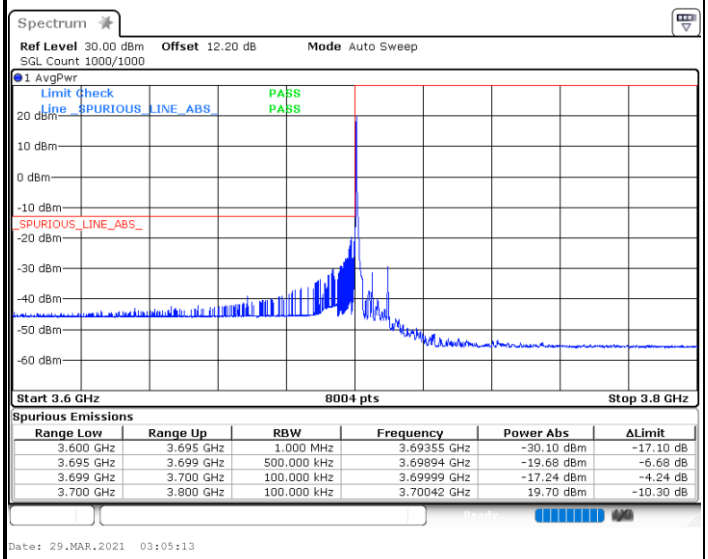
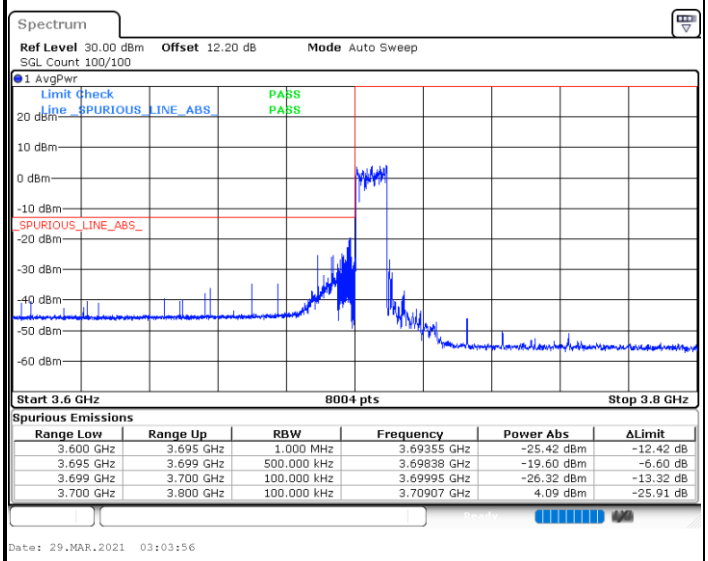
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97408 GHz	8.44 dBm	-21.56 dB
3.980 GHz	3.981 GHz	100.000 kHz	3.98002 GHz	-29.19 dBm	-16.19 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98166 GHz	-22.55 dBm	-9.55 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.99099 GHz	-25.59 dBm	-12.59 dB

Date: 28.MAR.2021 04:50:33

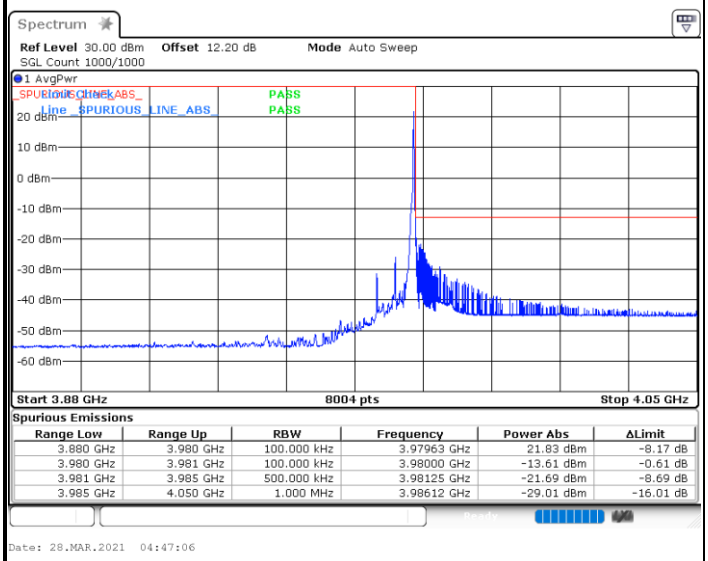
Channel Power < -13dBm Pass

/

FR1 N77 / 10MHz / DFT-S OFDM QPSK	
Lowest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	
Lowest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 N77 / 10MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

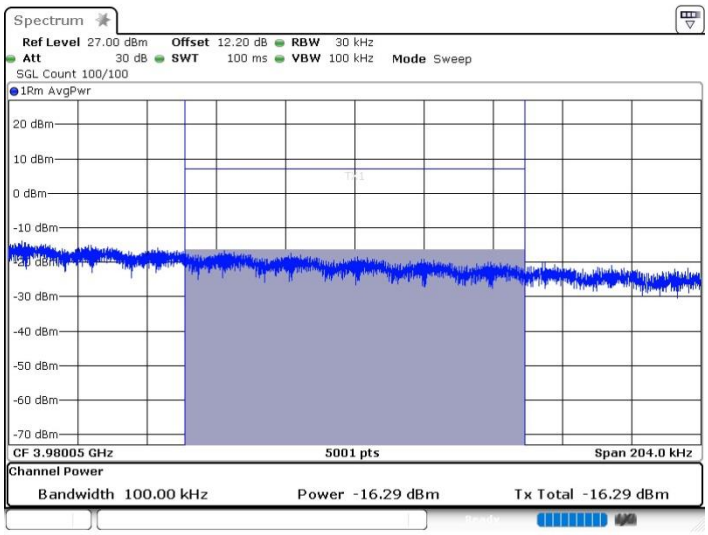


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97963 GHz	21.83 dBm	-8.17 dB
3.980 GHz	3.981 GHz	100.000 kHz	3.98000 GHz	-13.61 dBm	-0.61 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98125 GHz	-21.69 dBm	-8.69 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98612 GHz	-29.01 dBm	-16.01 dB

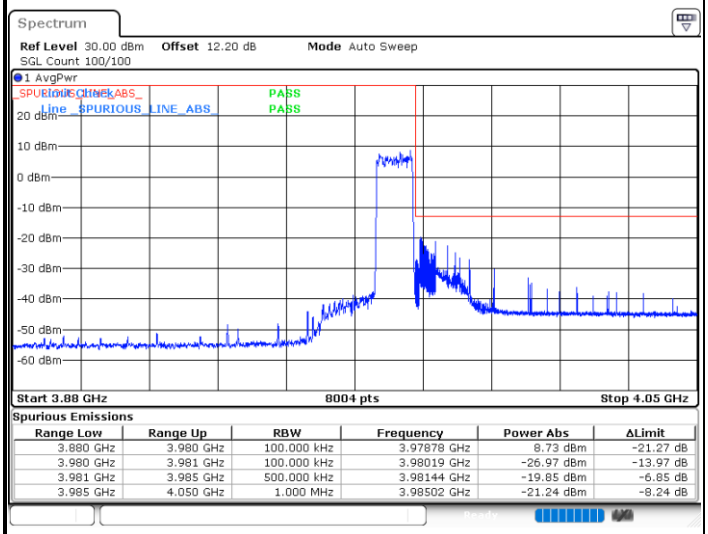
Date: 28.MAR.2021 04:47:06

Channel Power < -13dBm Pass



Date: 28.MAR.2021 04:49:13

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	3.97878 GHz	8.73 dBm	-21.27 dB
3.980 GHz	3.981 GHz	100.000 kHz	3.98019 GHz	-26.97 dBm	-13.97 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98144 GHz	-19.85 dBm	-6.85 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98502 GHz	-21.24 dBm	-8.24 dB

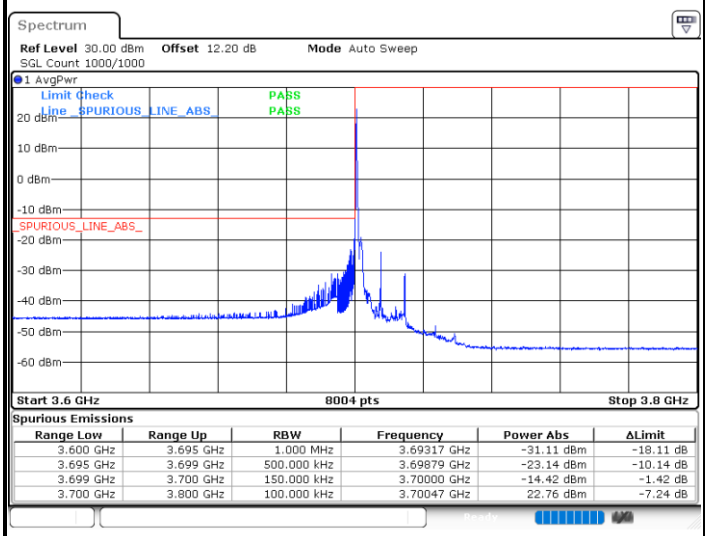
Date: 28.MAR.2021 04:52:42

Channel Power < -13dBm Pass

/

FR1 N77 / 15MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

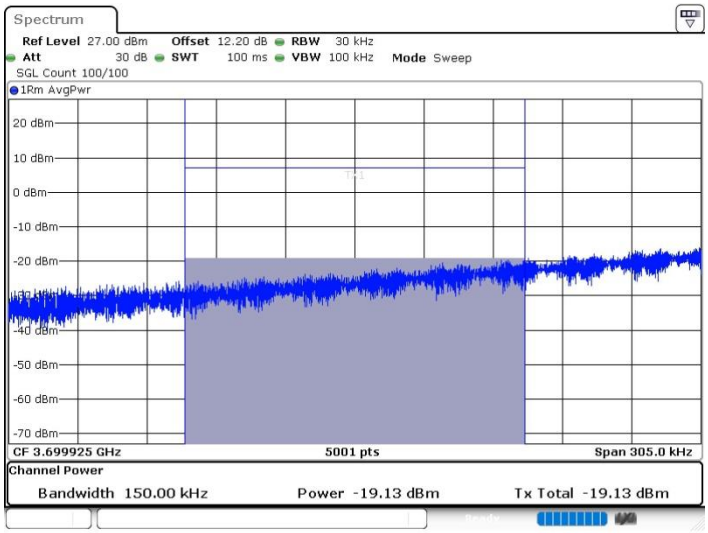


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69317 GHz	-31.11 dBm	-18.11 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69879 GHz	-23.14 dBm	-10.14 dB
3.699 GHz	3.700 GHz	150.000 kHz	3.70000 GHz	-14.42 dBm	-1.42 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70047 GHz	22.76 dBm	-7.24 dB

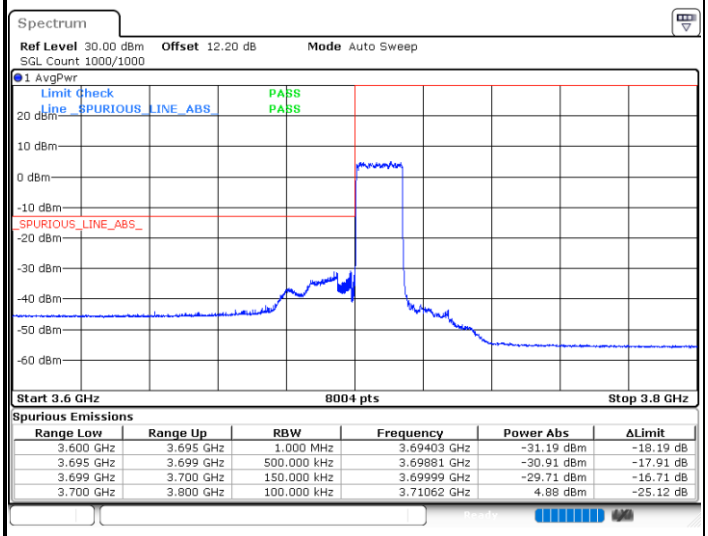
Date: 28.MAR.2021 04:56:19

Channel Power < -13dBm Pass



Date: 28.MAR.2021 05:07:25

Lowest Band Edge / Full RB



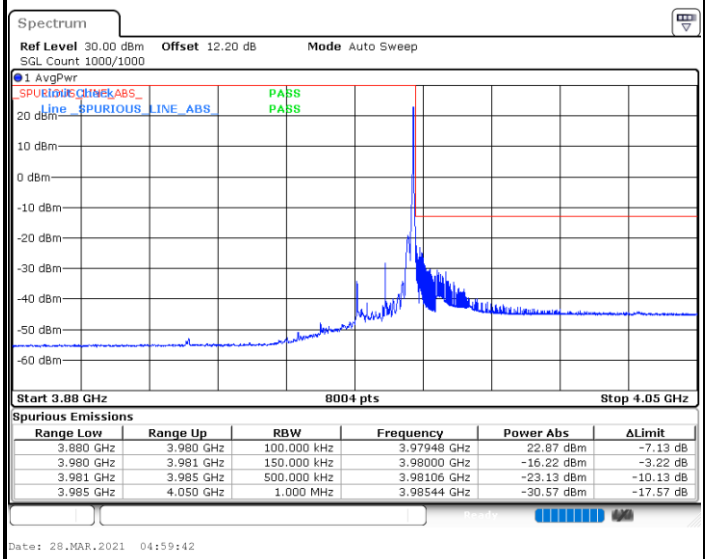
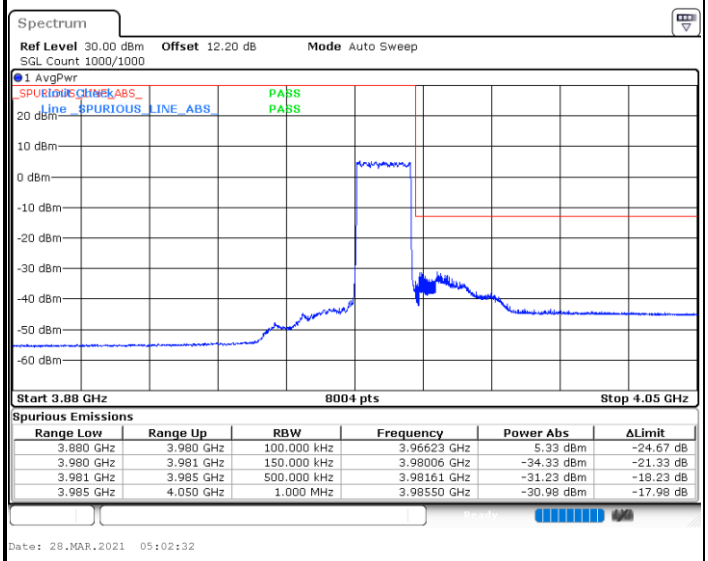
Spurious Emissions

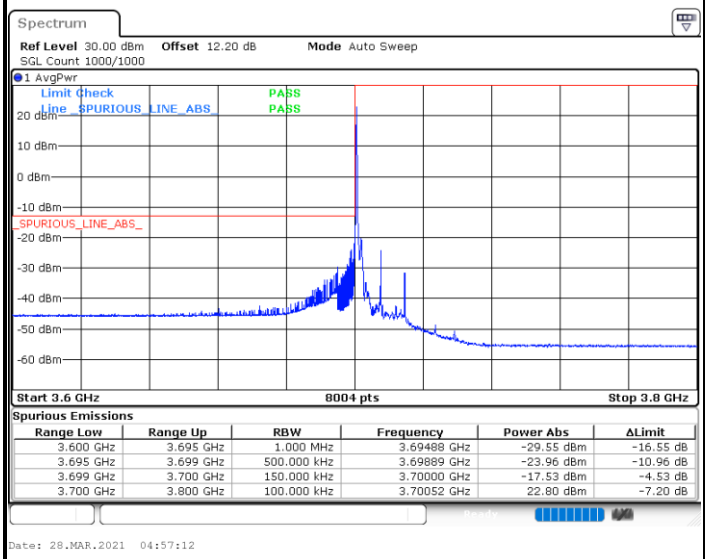
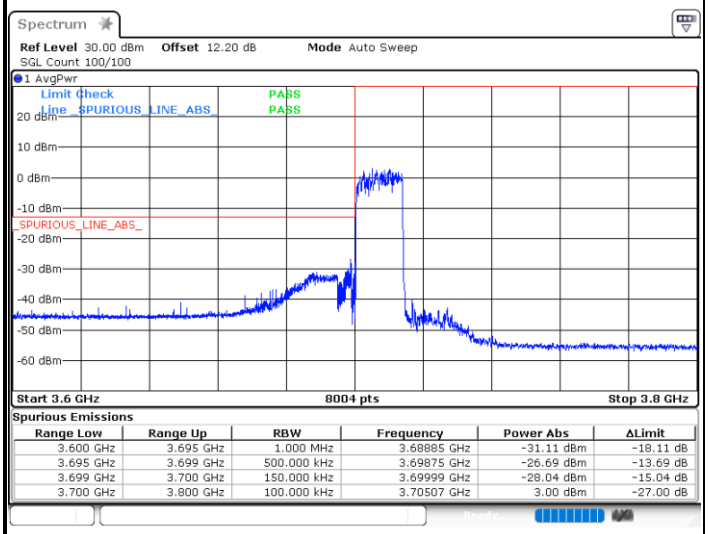
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69403 GHz	-31.19 dBm	-18.19 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69881 GHz	-30.91 dBm	-17.91 dB
3.699 GHz	3.700 GHz	150.000 kHz	3.69999 GHz	-29.71 dBm	-16.71 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.71062 GHz	4.88 dBm	-25.12 dB

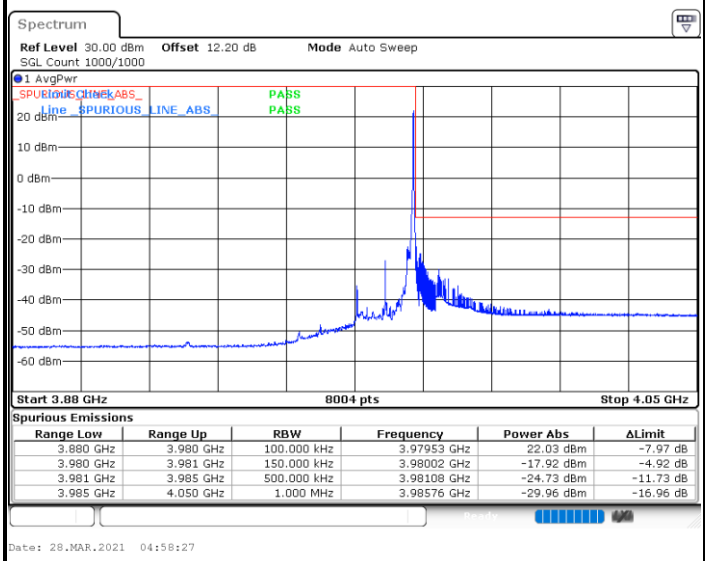
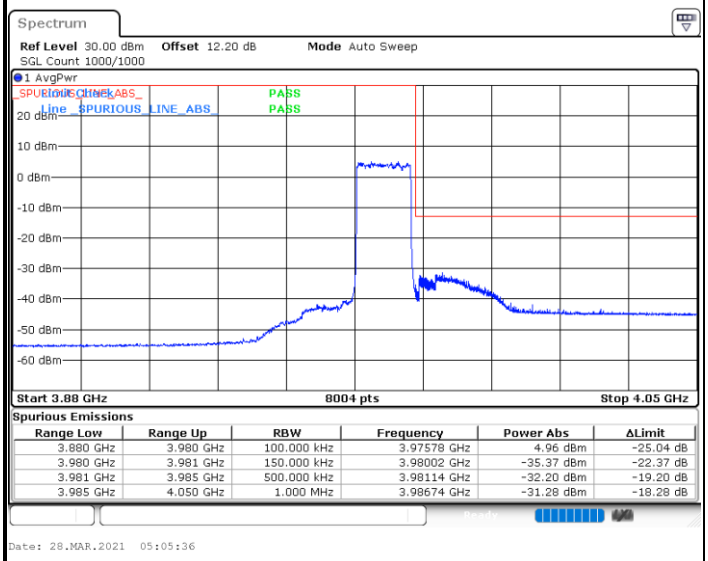
Date: 28.MAR.2021 04:55:21

Channel Power < -13dBm Pass

/

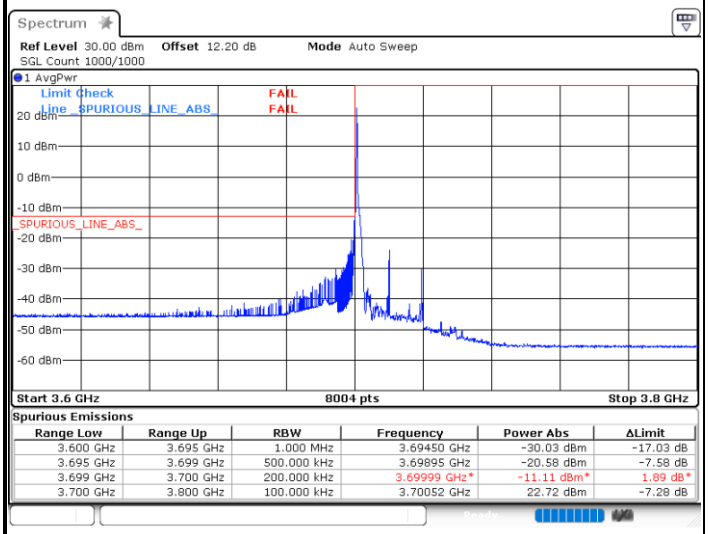
FR1 N77 / 15MHz / DFT-S OFDM BPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
	/
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
	/

FR1 N77 / 15MHz / 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 / 3.69488 GHz / -29.55 dBm / -16.55 dB 3.695 GHz / 3.699 GHz / 500.000 kHz / 3.69889 GHz / -23.96 dBm / -10.96 dB 3.699 GHz / 3.700 GHz / 150.000 kHz / 3.70000 GHz / -17.53 dBm / -4.53 dB 3.700 GHz / 3.800 GHz / 100.000 kHz / 3.70052 GHz / 22.80 dBm / -7.20 dB Date: 28.MAR.2021 04:57:12	
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 / 3.68885 GHz / -31.11 dBm / -18.11 dB 3.695 GHz / 3.699 GHz / 500.000 kHz / 3.69875 GHz / -26.69 dBm / -13.69 dB 3.699 GHz / 3.700 GHz / 150.000 kHz / 3.69999 GHz / -28.04 dBm / -15.04 dB 3.700 GHz / 3.800 GHz / 100.000 kHz / 3.70507 GHz / 3.00 dBm / -27.00 dB Date: 28.MAR.2021 04:54:01	/

FR1 N77 / 15MHz / DFT-S OFDM QPSK	
Highest Band Edge / 1 RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.880 GHz / 3.980 GHz / 100.000 kHz / 3.97953 GHz / 22.03 dBm / -7.97 dB 3.980 GHz / 3.981 GHz / 150.000 kHz / 3.98002 GHz / -17.92 dBm / -4.92 dB 3.981 GHz / 3.985 GHz / 500.000 kHz / 3.98108 GHz / -24.73 dBm / -11.73 dB 3.985 GHz / 4.050 GHz / 1.000 MHz / 3.98576 GHz / -29.96 dBm / -16.96 dB Date: 28.MAR.2021 04:58:27	
Highest Band Edge / Full RB	**Channel Power < -13dBm Pass**
 Spurious Emissions Range Low / Range Up / RBW / Frequency / Power Abs / ΔLimit 3.880 GHz / 3.980 GHz / 100.000 kHz / 3.97578 GHz / 4.96 dBm / -25.04 dB 3.980 GHz / 3.981 GHz / 150.000 kHz / 3.98002 GHz / -35.37 dBm / -22.37 dB 3.981 GHz / 3.985 GHz / 500.000 kHz / 3.98114 GHz / -32.20 dBm / -19.20 dB 3.985 GHz / 4.050 GHz / 1.000 MHz / 3.98674 GHz / -31.28 dBm / -18.28 dB Date: 28.MAR.2021 05:05:36	/

FR1 N77 / 20MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

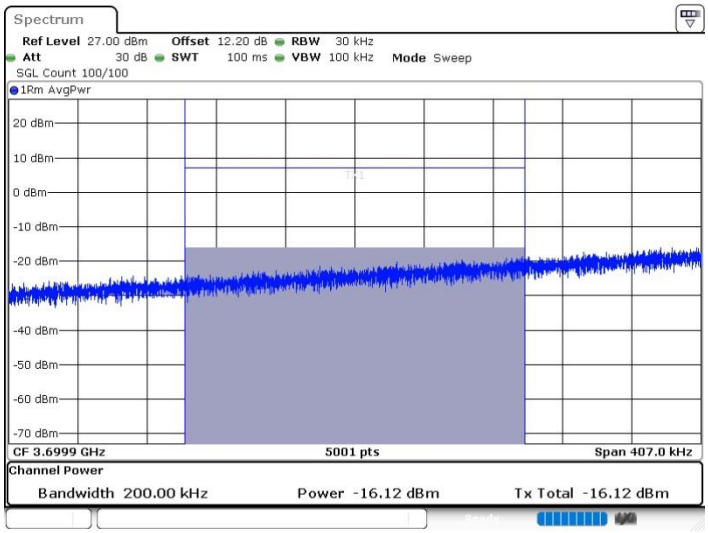


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69450 GHz	-30.03 dBm	-17.03 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69895 GHz	-20.58 dBm	-7.58 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.69999 GHz*	-11.11 dBm*	1.89 dB*
3.700 GHz	3.800 GHz	100.000 kHz	3.70052 GHz	22.72 dBm	-7.28 dB

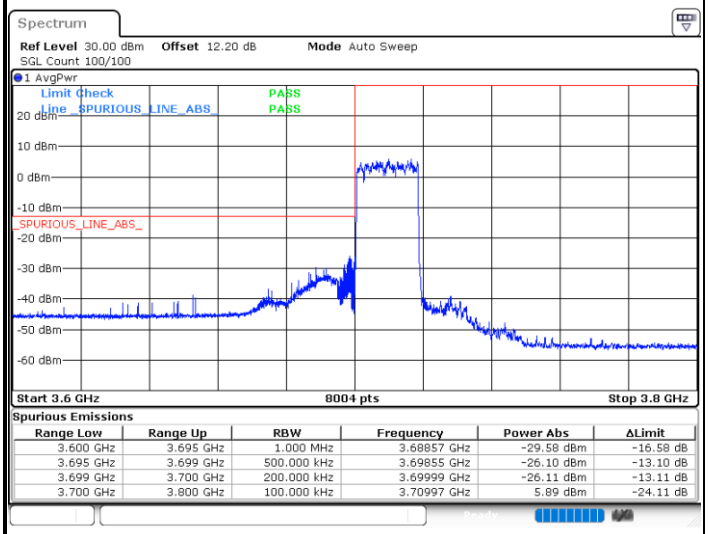
Date: 28.MAR.2021 05:16:16

Channel Power < -13dBm Pass



Date: 28.MAR.2021 05:30:55

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	3.68857 GHz	-29.58 dBm	-16.58 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69855 GHz	-26.10 dBm	-13.10 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.69999 GHz	-26.11 dBm	-13.11 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70997 GHz	5.89 dBm	-24.11 dB

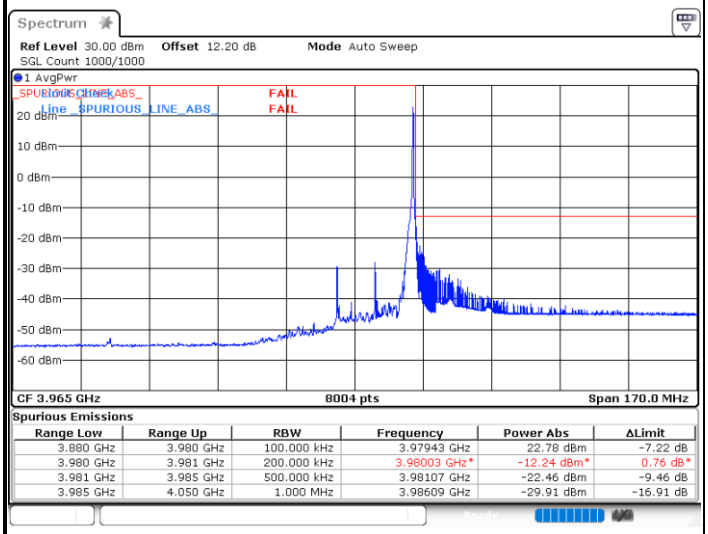
Date: 28.MAR.2021 05:08:13

Channel Power < -13dBm Pass

/

FR1 N77 / 20MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

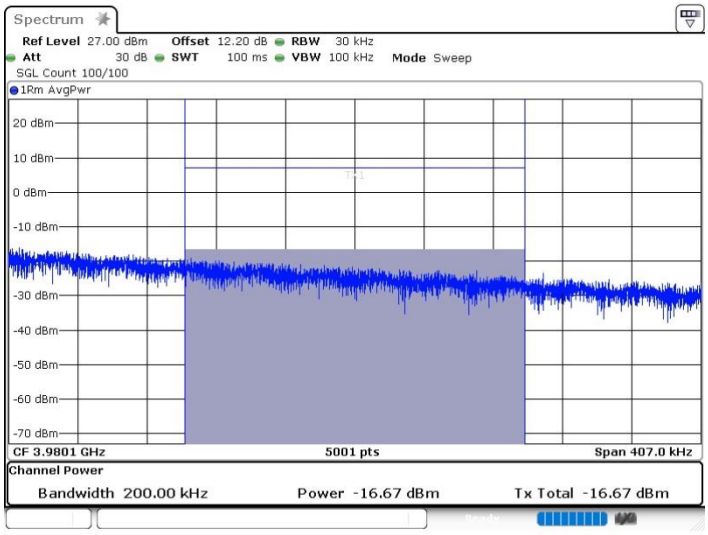


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97943 GHz	22.78 dBm	-7.22 dB
3.980 GHz	3.981 GHz	200.000 kHz	3.98003 GHz*	-12.24 dBm*	0.76 dB*
3.981 GHz	3.985 GHz	500.000 kHz	3.98107 GHz	-22.46 dBm	-9.46 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98609 GHz	-29.91 dBm	-16.91 dB

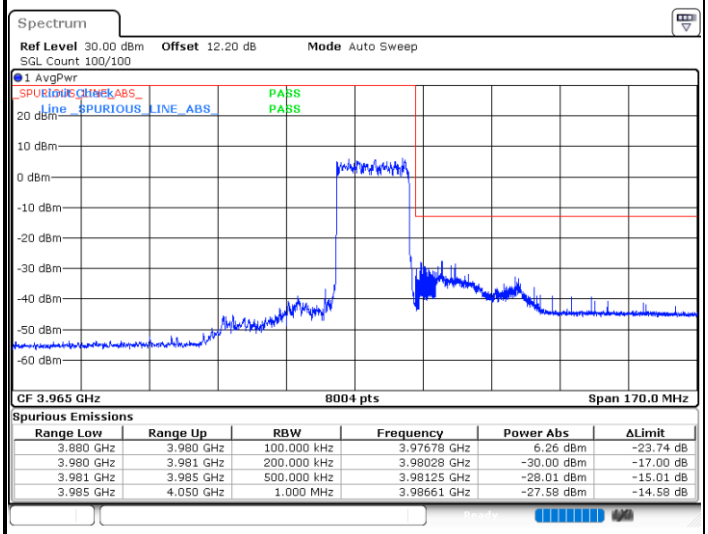
Date: 28.MAR.2021 05:18:53

Channel Power < -13dBm Pass



Date: 28.MAR.2021 05:24:21

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	3.97678 GHz	6.26 dBm	-23.74 dB
3.980 GHz	3.981 GHz	200.000 kHz	3.98028 GHz	-30.00 dBm	-17.00 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98125 GHz	-28.01 dBm	-15.01 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98661 GHz	-27.58 dBm	-14.58 dB

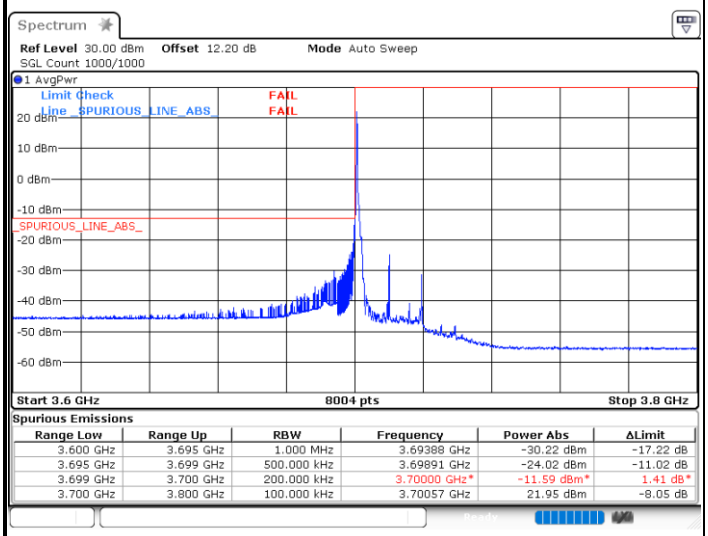
Date: 28.MAR.2021 05:22:58

Channel Power < -13dBm Pass

/

FR1 N77 / 20MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

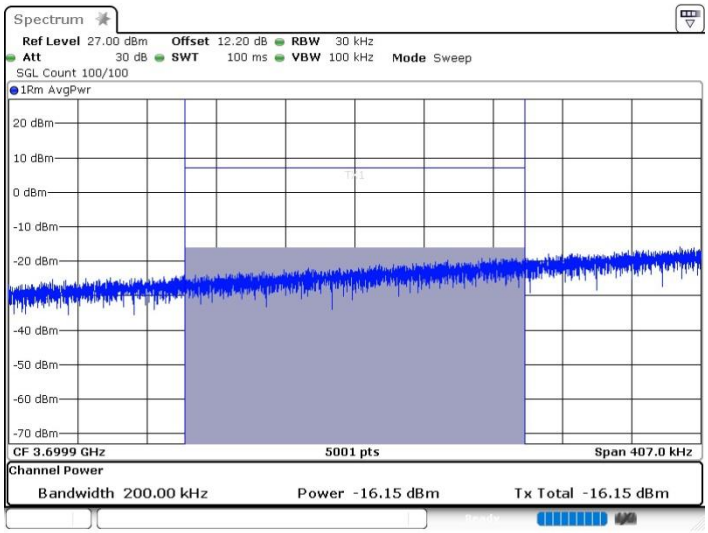


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.600 GHz	3.695 GHz	1.000 MHz	3.69388 GHz	-30.22 dBm	-17.22 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69891 GHz	-24.02 dBm	-11.02 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.70000 GHz*	-11.59 dBm*	1.41 dB*
3.700 GHz	3.800 GHz	100.000 kHz	3.70057 GHz	21.95 dBm	-8.05 dB

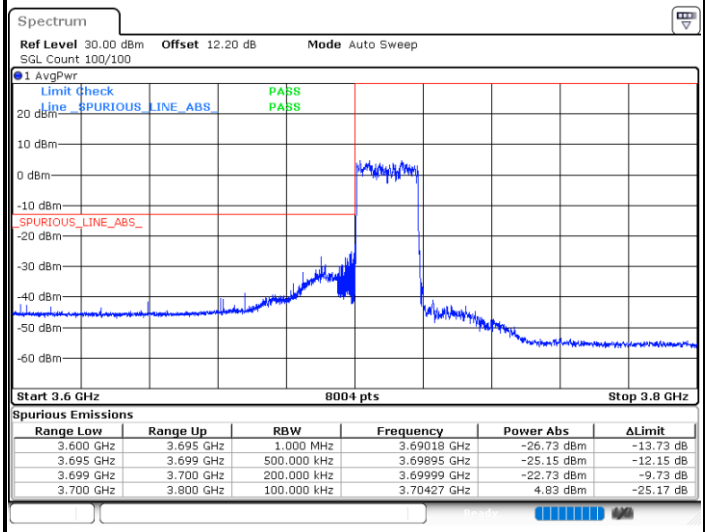
Date: 28.MAR.2021 05:12:03

Channel Power < -13dBm Pass



Date: 28.MAR.2021 05:30:29

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	3.69018 GHz	-26.73 dBm	-13.73 dB
3.695 GHz	3.699 GHz	500.000 kHz	3.69895 GHz	-25.15 dBm	-12.15 dB
3.699 GHz	3.700 GHz	200.000 kHz	3.69999 GHz	-22.73 dBm	-9.73 dB
3.700 GHz	3.800 GHz	100.000 kHz	3.70427 GHz	4.83 dBm	-25.17 dB

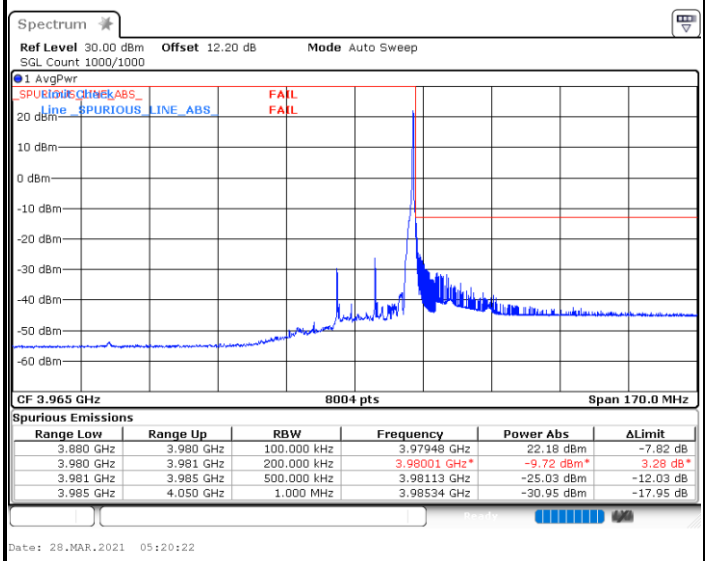
Date: 28.MAR.2021 05:09:45

Channel Power < -13dBm Pass

/

FR1 N77 / 20MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

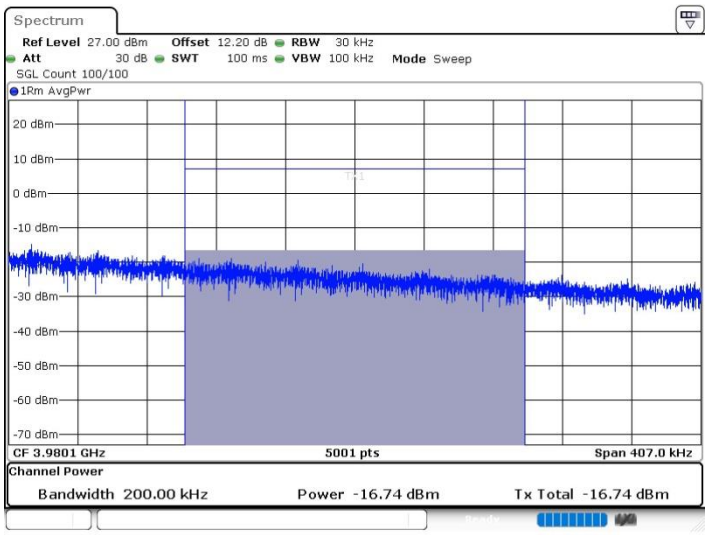


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.880 GHz	3.980 GHz	100.000 kHz	3.97948 GHz	22.18 dBm	-7.82 dB
3.980 GHz	3.981 GHz	200.000 kHz	3.98001 GHz*	-9.72 dBm*	3.28 dB*
3.981 GHz	3.985 GHz	500.000 kHz	3.98113 GHz	-25.03 dBm	-12.03 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98534 GHz	-30.95 dBm	-17.95 dB

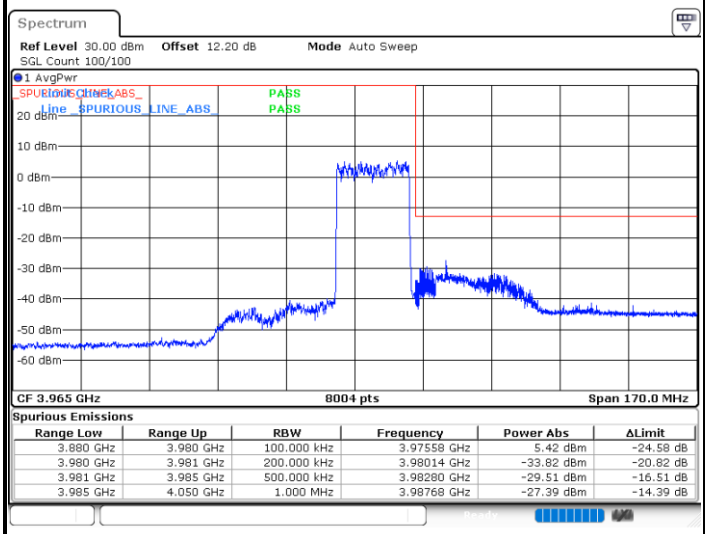
Date: 28.MAR.2021 05:20:22

Channel Power < -13dBm Pass



Date: 28.MAR.2021 05:28:32

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	3.97558 GHz	5.42 dBm	-24.58 dB
3.980 GHz	3.981 GHz	200.000 kHz	3.98014 GHz	-33.82 dBm	-20.82 dB
3.981 GHz	3.985 GHz	500.000 kHz	3.98280 GHz	-29.51 dBm	-16.51 dB
3.985 GHz	4.050 GHz	1.000 MHz	3.98768 GHz	-27.39 dBm	-14.39 dB

Date: 28.MAR.2021 05:21:45

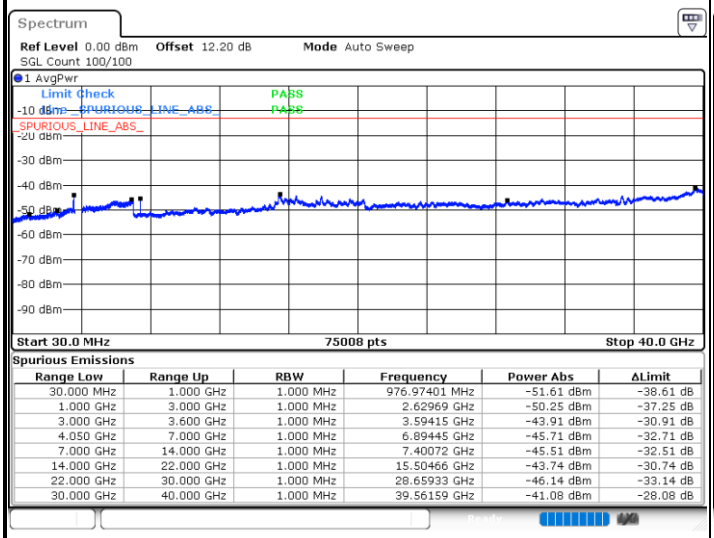
Channel Power < -13dBm Pass

/

Conducted Spurious Emission

FR1 N77 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

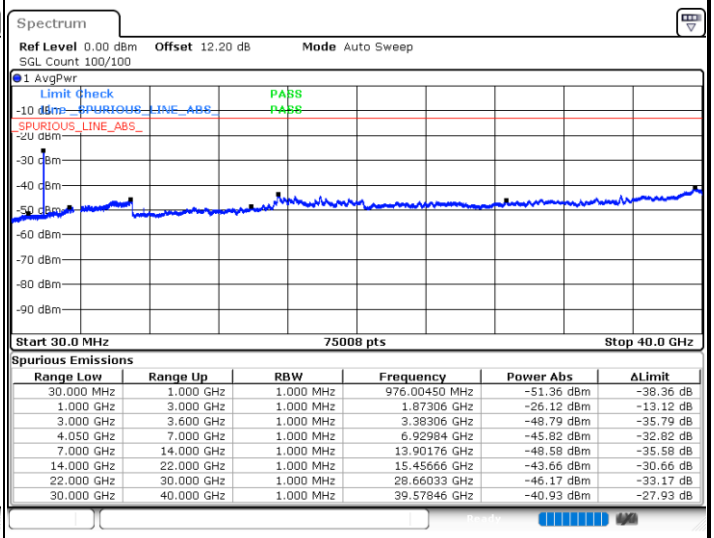


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.97401 MHz	-51.61 dBm	-38.61 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62969 GHz	-50.25 dBm	-37.25 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.59415 GHz	-43.91 dBm	-30.91 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.89445 GHz	-45.71 dBm	-32.71 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.40072 GHz	-45.51 dBm	-32.51 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50466 GHz	-43.74 dBm	-30.74 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65933 GHz	-46.14 dBm	-33.14 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56159 GHz	-41.08 dBm	-28.08 dB

Date: 29.MAR.2021 03:08:28

Middle Channel / 1RB

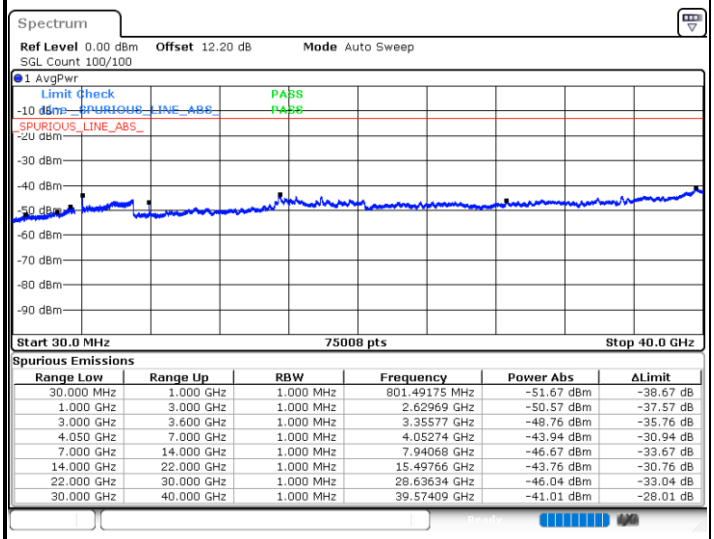


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.00450 MHz	-51.36 dBm	-38.36 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.87306 GHz	-26.12 dBm	-13.12 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.38306 GHz	-48.79 dBm	-35.79 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.92984 GHz	-45.82 dBm	-32.82 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.90176 GHz	-48.58 dBm	-35.58 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.45666 GHz	-43.66 dBm	-30.66 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66033 GHz	-46.17 dBm	-33.17 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57846 GHz	-40.93 dBm	-27.93 dB

Date: 28.MAR.2021 04:39:00

Highest Channel / 1RB



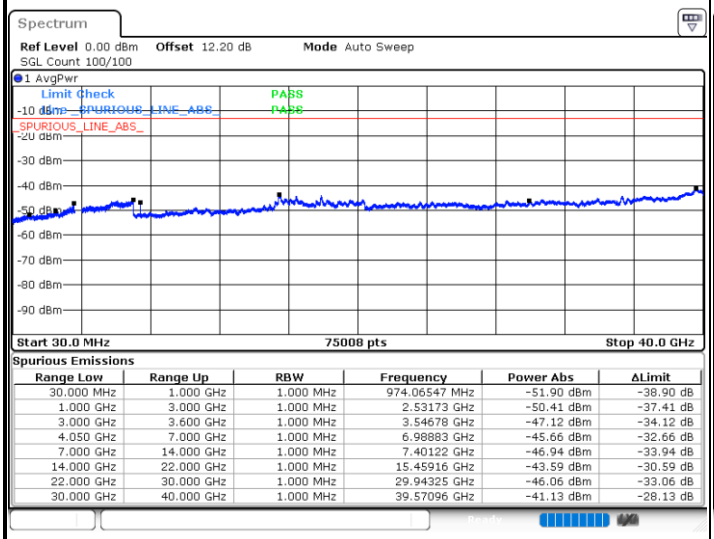
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	801.49175 MHz	-51.67 dBm	-38.67 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.62969 GHz	-50.57 dBm	-37.57 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.35577 GHz	-48.76 dBm	-35.76 dB
4.050 GHz	7.000 GHz	1.000 MHz	4.05274 GHz	-43.94 dBm	-30.94 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.94068 GHz	-46.67 dBm	-33.67 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49766 GHz	-43.76 dBm	-30.76 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.63634 GHz	-46.04 dBm	-33.04 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57409 GHz	-41.01 dBm	-28.01 dB

Date: 28.MAR.2021 04:19:11

FR1 N77 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

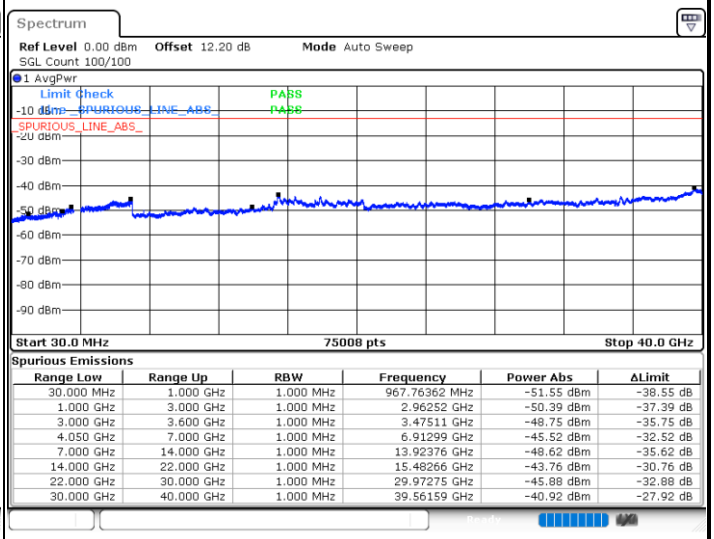


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	974.06547 MHz	-51.90 dBm	-38.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.53173 GHz	-50.41 dBm	-37.41 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.54678 GHz	-47.12 dBm	-34.12 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.98883 GHz	-45.66 dBm	-32.66 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.40122 GHz	-46.94 dBm	-33.94 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.45916 GHz	-43.59 dBm	-30.59 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.94325 GHz	-46.06 dBm	-33.06 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57096 GHz	-41.13 dBm	-28.13 dB

Date: 29.MAR.2021 03:09:47

Middle Channel / 1RB

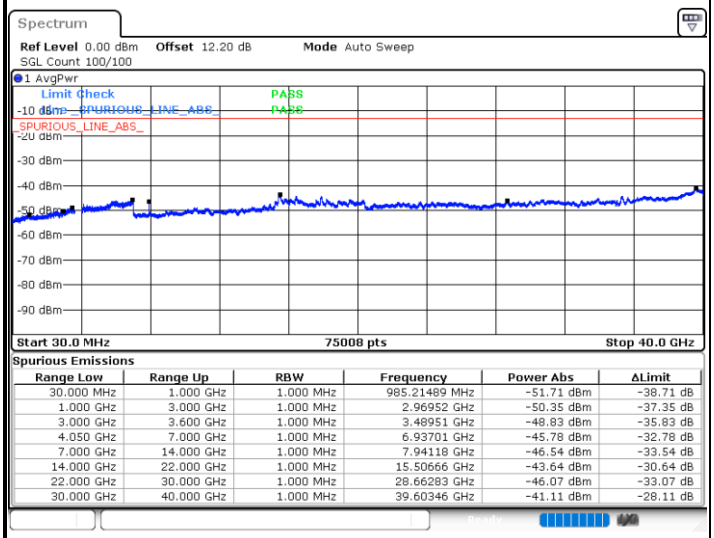


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	967.76362 MHz	-51.55 dBm	-38.55 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96252 GHz	-50.39 dBm	-37.39 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47511 GHz	-48.75 dBm	-35.75 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91299 GHz	-45.52 dBm	-32.52 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.92376 GHz	-48.62 dBm	-35.62 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.48266 GHz	-43.76 dBm	-30.76 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.97275 GHz	-45.88 dBm	-32.88 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56159 GHz	-40.92 dBm	-27.92 dB

Date: 28.MAR.2021 04:15:15

Highest Channel / 1RB



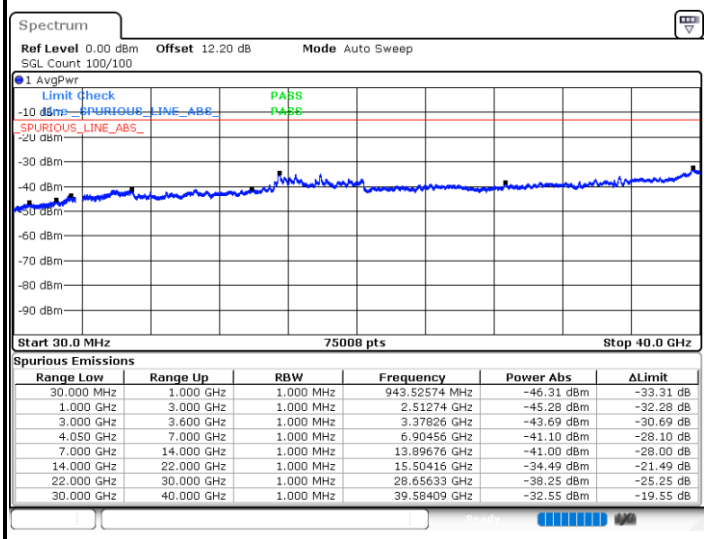
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	985.21489 MHz	-51.71 dBm	-38.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96952 GHz	-50.35 dBm	-37.35 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.48951 GHz	-48.83 dBm	-35.83 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.93701 GHz	-45.78 dBm	-32.78 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.94118 GHz	-46.54 dBm	-33.54 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50666 GHz	-43.64 dBm	-30.64 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66283 GHz	-46.07 dBm	-33.07 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.60346 GHz	-41.11 dBm	-28.11 dB

Date: 28.MAR.2021 04:18:02

FR1 N77 / 15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

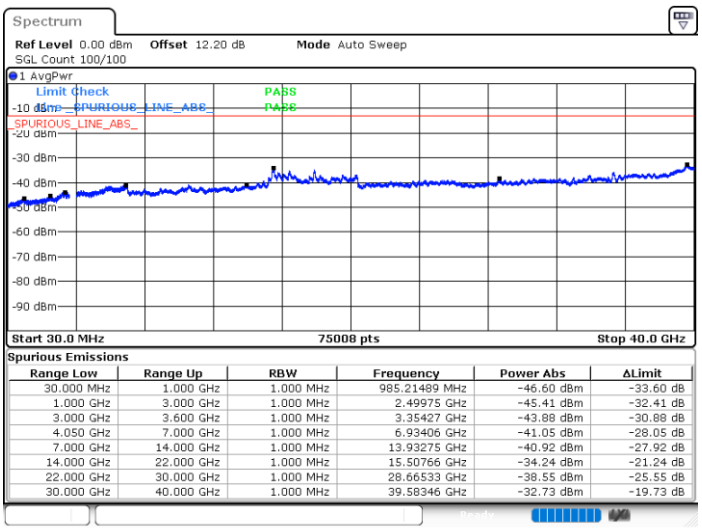


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	943.52574 MHz	-46.31 dBm	-33.31 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.51274 GHz	-45.28 dBm	-32.28 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.37826 GHz	-43.69 dBm	-30.69 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90456 GHz	-41.10 dBm	-28.10 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.89676 GHz	-41.00 dBm	-28.00 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50416 GHz	-34.49 dBm	-21.49 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65633 GHz	-38.25 dBm	-25.25 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58409 GHz	-32.55 dBm	-19.55 dB

Date: 28.MAR.2021 03:32:38

Middle Channel / 1RB

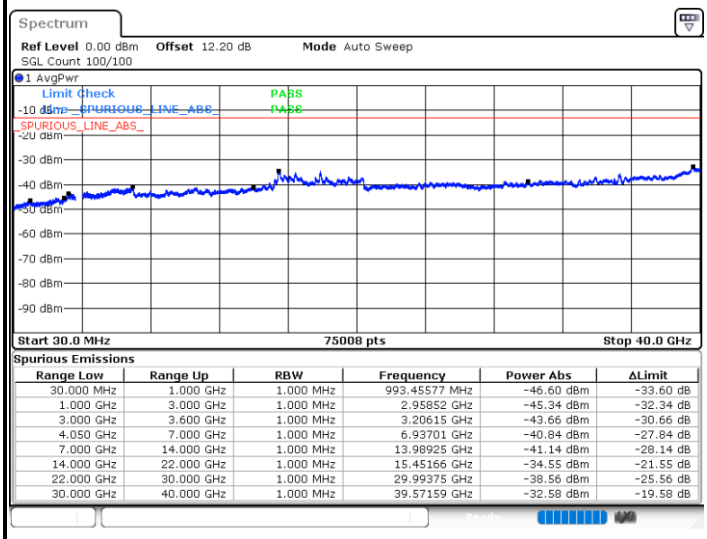


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	985.21489 MHz	-46.60 dBm	-33.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49975 GHz	-45.41 dBm	-32.41 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.35427 GHz	-43.88 dBm	-30.88 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.93406 GHz	-41.05 dBm	-28.05 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.93275 GHz	-40.92 dBm	-27.92 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50766 GHz	-34.24 dBm	-21.24 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66533 GHz	-38.55 dBm	-25.55 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58346 GHz	-32.73 dBm	-19.73 dB

Date: 28.MAR.2021 04:08:56

Highest Channel / 1RB



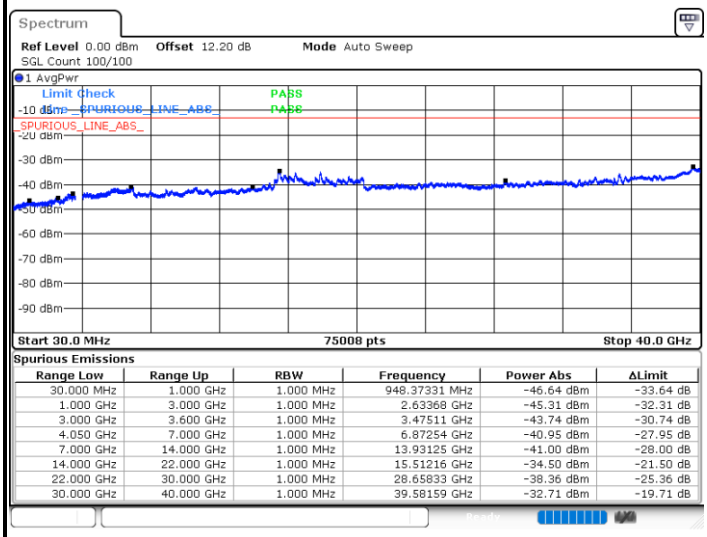
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	993.45577 MHz	-46.60 dBm	-33.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95852 GHz	-45.34 dBm	-32.34 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.20615 GHz	-43.66 dBm	-30.66 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.93701 GHz	-40.84 dBm	-27.84 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.98925 GHz	-41.14 dBm	-28.14 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.45166 GHz	-34.55 dBm	-21.55 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.99375 GHz	-38.56 dBm	-25.56 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57159 GHz	-32.58 dBm	-19.58 dB

Date: 28.MAR.2021 04:10:59

FR1 N77 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

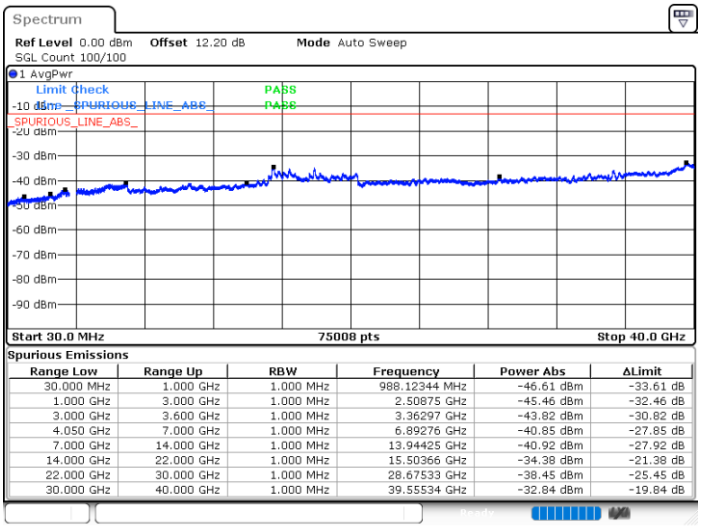


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	948.37331 MHz	-46.64 dBm	-33.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63368 GHz	-45.31 dBm	-32.31 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47511 GHz	-43.74 dBm	-30.74 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.87254 GHz	-40.95 dBm	-27.95 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.93125 GHz	-41.00 dBm	-28.00 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51216 GHz	-34.50 dBm	-21.50 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65833 GHz	-38.36 dBm	-25.36 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58159 GHz	-32.71 dBm	-19.71 dB

Date: 28.MAR.2021 03:33:56

Middle Channel / 1RB

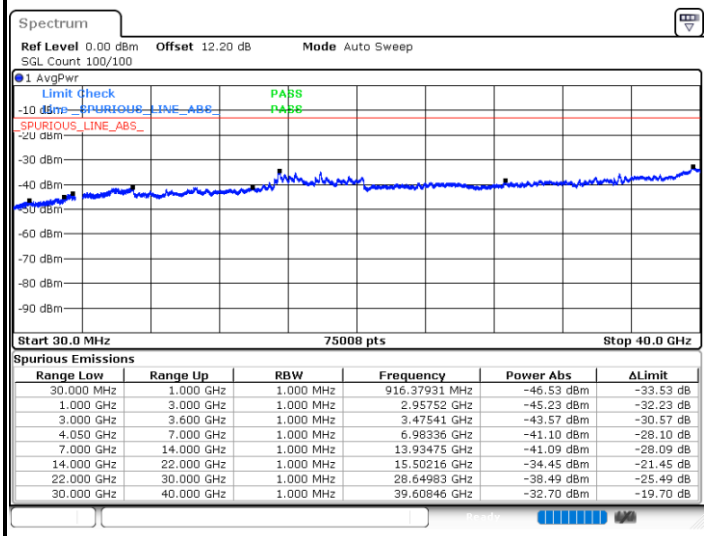


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	988.12344 MHz	-46.61 dBm	-33.61 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50875 GHz	-45.46 dBm	-32.46 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.36297 GHz	-43.82 dBm	-30.82 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.89276 GHz	-40.85 dBm	-27.85 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.94425 GHz	-40.92 dBm	-27.92 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50366 GHz	-34.38 dBm	-21.38 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.67533 GHz	-38.45 dBm	-25.45 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.55534 GHz	-32.84 dBm	-19.84 dB

Date: 28.MAR.2021 03:35:17

Highest Channel / 1RB



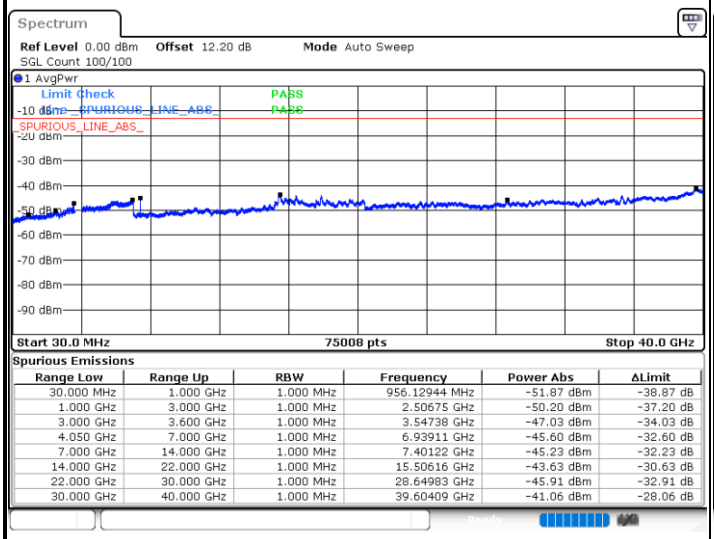
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	916.37931 MHz	-46.53 dBm	-33.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95752 GHz	-45.23 dBm	-32.23 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47541 GHz	-43.57 dBm	-30.57 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.98336 GHz	-41.10 dBm	-28.10 dB
7.000 GHz	14.000 GHz	1.000 MHz	13.93475 GHz	-41.09 dBm	-28.09 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50216 GHz	-34.45 dBm	-21.45 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64983 GHz	-38.49 dBm	-25.49 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.60846 GHz	-32.70 dBm	-19.70 dB

Date: 28.MAR.2021 04:12:08

FR1 N77 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

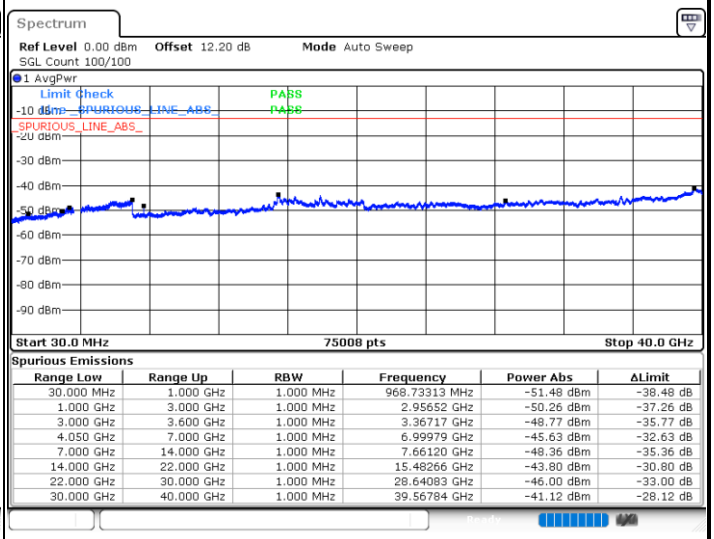


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	956.12944 MHz	-51.87 dBm	-38.87 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50675 GHz	-50.20 dBm	-37.20 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.54738 GHz	-47.03 dBm	-34.03 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.93911 GHz	-45.60 dBm	-32.60 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.40122 GHz	-45.23 dBm	-32.23 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.50616 GHz	-43.63 dBm	-30.63 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64983 GHz	-45.91 dBm	-32.91 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.60409 GHz	-41.06 dBm	-28.06 dB

Date: 28.MAR.2021 02:41:25

Middle Channel / 1RB

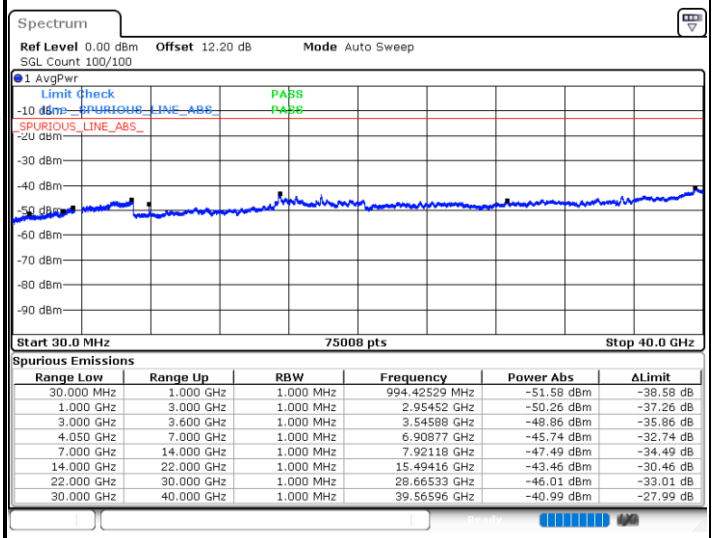


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	968.73313 MHz	-51.48 dBm	-38.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95652 GHz	-50.26 dBm	-37.26 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.36717 GHz	-48.77 dBm	-35.77 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.99979 GHz	-45.63 dBm	-32.63 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.66120 GHz	-48.36 dBm	-35.36 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.48266 GHz	-43.80 dBm	-30.80 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.64083 GHz	-46.00 dBm	-33.00 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56784 GHz	-41.12 dBm	-28.12 dB

Date: 28.MAR.2021 03:17:05

Highest Channel / 1RB



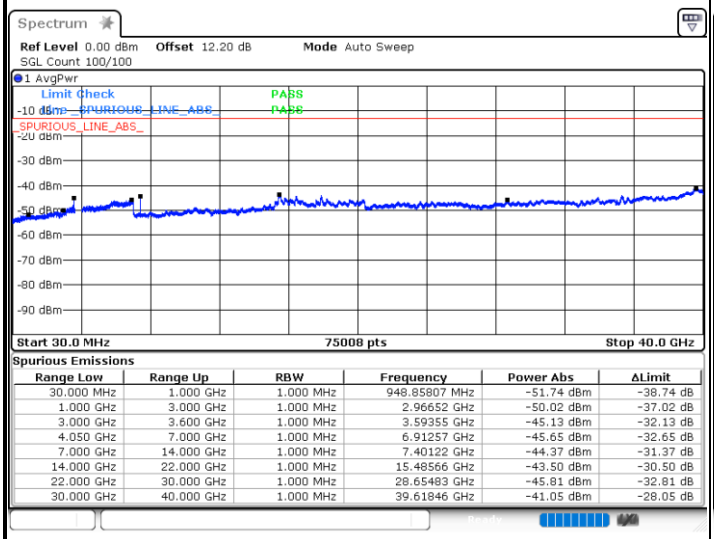
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.42529 MHz	-51.58 dBm	-38.58 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95452 GHz	-50.26 dBm	-37.26 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.54588 GHz	-48.86 dBm	-35.86 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90877 GHz	-45.74 dBm	-32.74 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.92118 GHz	-47.49 dBm	-34.49 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.49416 GHz	-43.46 dBm	-30.46 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.66533 GHz	-46.01 dBm	-33.01 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.56596 GHz	-40.99 dBm	-27.99 dB

Date: 28.MAR.2021 03:20:29

FR1 N77 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

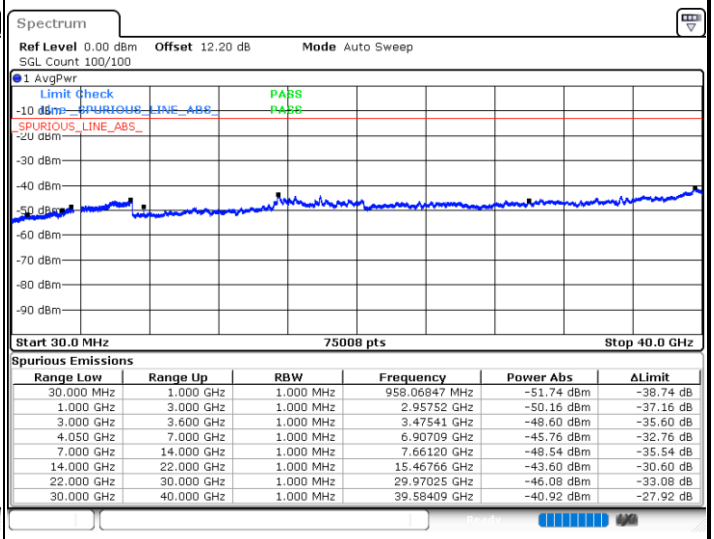


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	948.85807 MHz	-51.74 dBm	-38.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96652 GHz	-50.02 dBm	-37.02 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.59355 GHz	-45.13 dBm	-32.13 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91257 GHz	-45.65 dBm	-32.65 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.40122 GHz	-44.37 dBm	-31.37 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.48566 GHz	-43.50 dBm	-30.50 dB
22.000 GHz	30.000 GHz	1.000 MHz	28.65483 GHz	-45.81 dBm	-32.81 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.61846 GHz	-41.05 dBm	-28.05 dB

Date: 28.MAR.2021 02:31:14

Middle Channel / 1RB

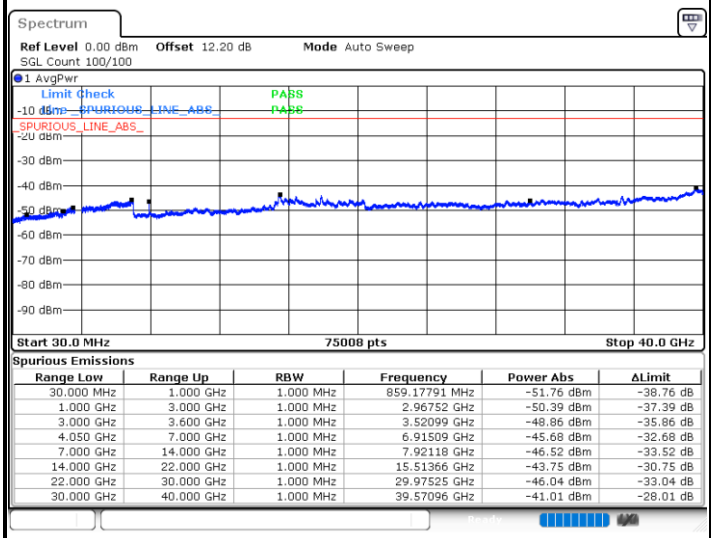


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	958.06847 MHz	-51.74 dBm	-38.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95752 GHz	-50.16 dBm	-37.16 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.47541 GHz	-48.60 dBm	-35.60 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.90709 GHz	-45.76 dBm	-32.76 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.66120 GHz	-48.54 dBm	-35.54 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.46766 GHz	-43.60 dBm	-30.60 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.97025 GHz	-46.08 dBm	-33.08 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.58409 GHz	-40.92 dBm	-27.92 dB

Date: 28.MAR.2021 03:15:33

Highest Channel / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	859.17791 MHz	-51.76 dBm	-38.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96752 GHz	-50.39 dBm	-37.39 dB
3.000 GHz	3.600 GHz	1.000 MHz	3.52099 GHz	-48.86 dBm	-35.86 dB
4.050 GHz	7.000 GHz	1.000 MHz	6.91509 GHz	-45.68 dBm	-32.68 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.92118 GHz	-46.52 dBm	-33.52 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.51366 GHz	-43.75 dBm	-30.75 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.97525 GHz	-46.04 dBm	-33.04 dB
30.000 GHz	40.000 GHz	1.000 MHz	39.57096 GHz	-41.01 dBm	-28.01 dB

Date: 28.MAR.2021 03:18:58

Frequency Stability

Test Conditions		NR N77 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0019	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0015	
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 NSA-SCS 30K

Peak-to-Average Ratio

Mode	FR1 n77 / 10MHz / 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	7.86	6.78	8.29	8.23	PASS
Middle CH	6.84	7.77	7.45	9.39	
Highest CH	6.87	6.67	7.59	8.17	