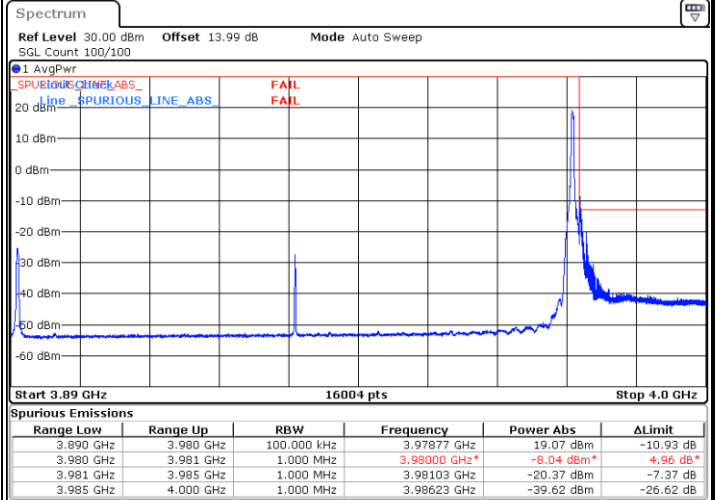
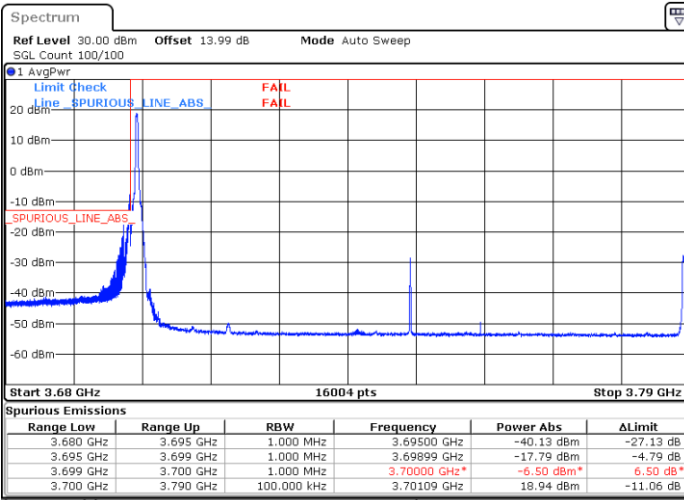




FR1 n77 / 90MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

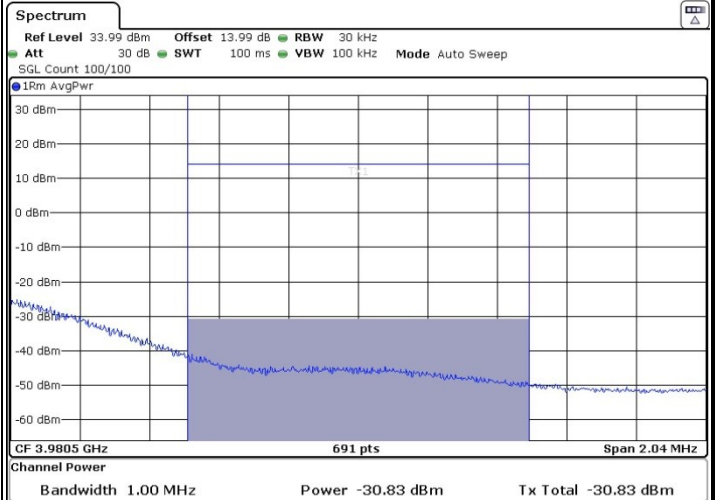
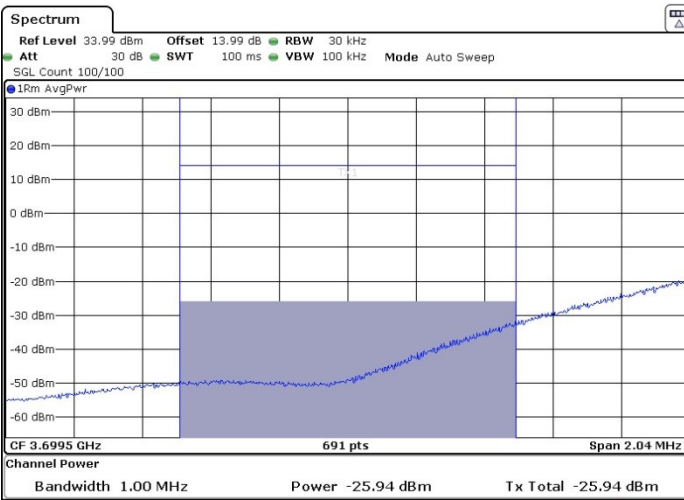


Date: 13.MAR.2021 19:15:35

Date: 13.MAR.2021 19:36:15

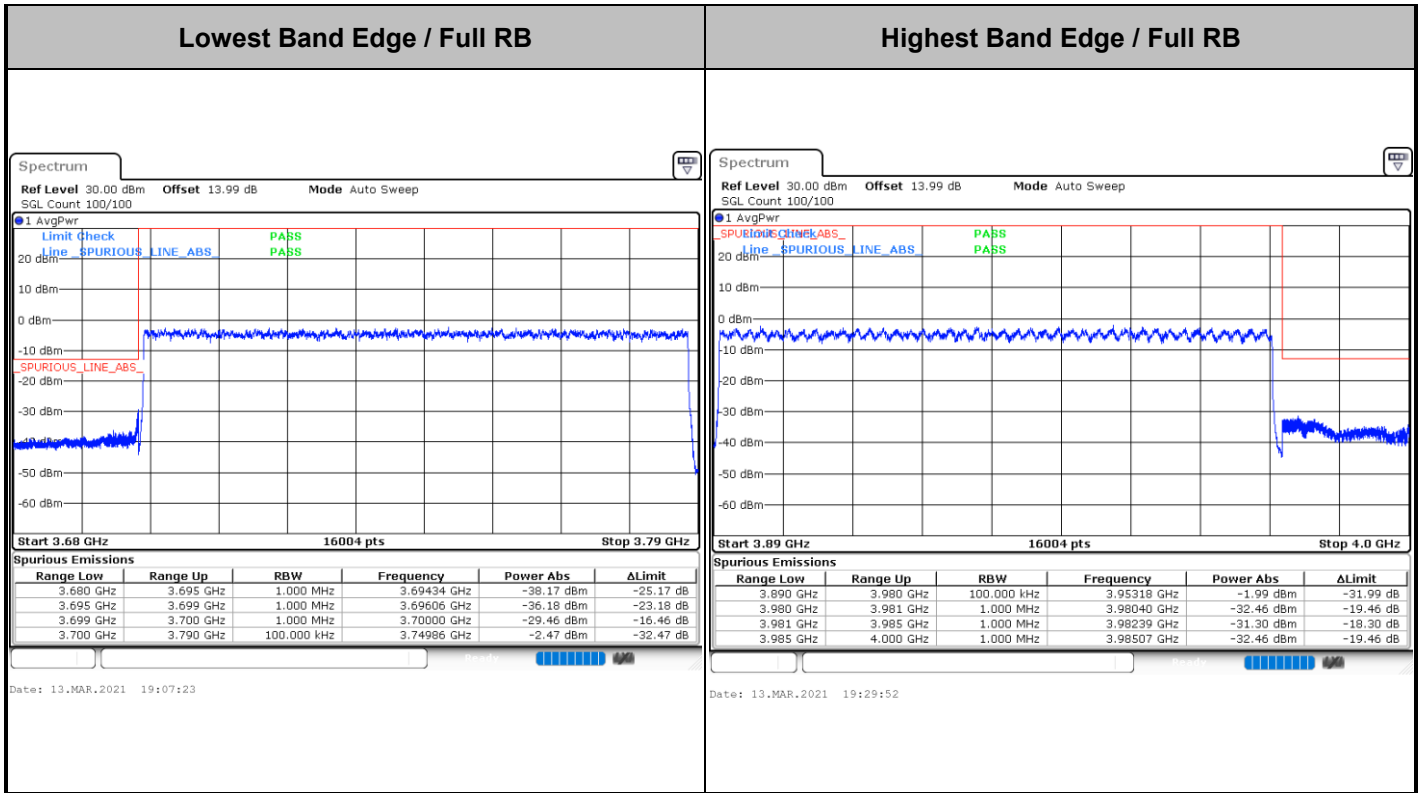
Channel Power <-13dBm pass

Channel Power <-13dBm pass



Date: 15.MAR.2021 15:23:26

Date: 15.MAR.2021 15:18:10

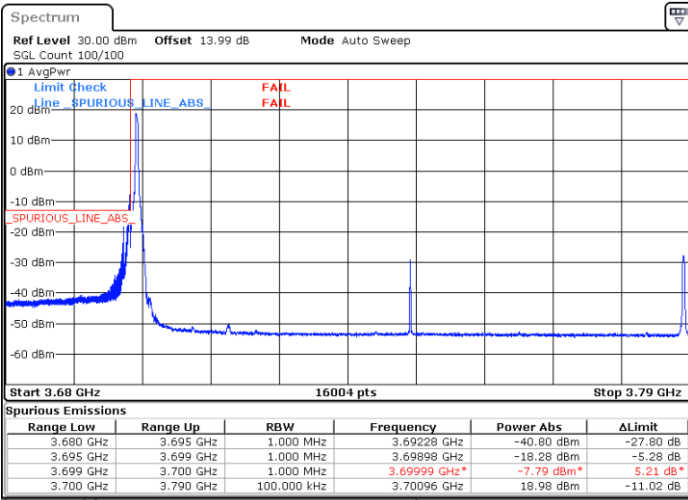




FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

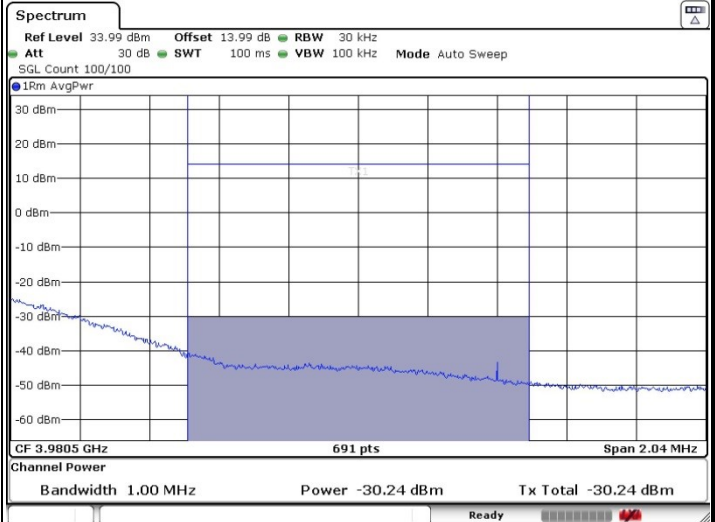
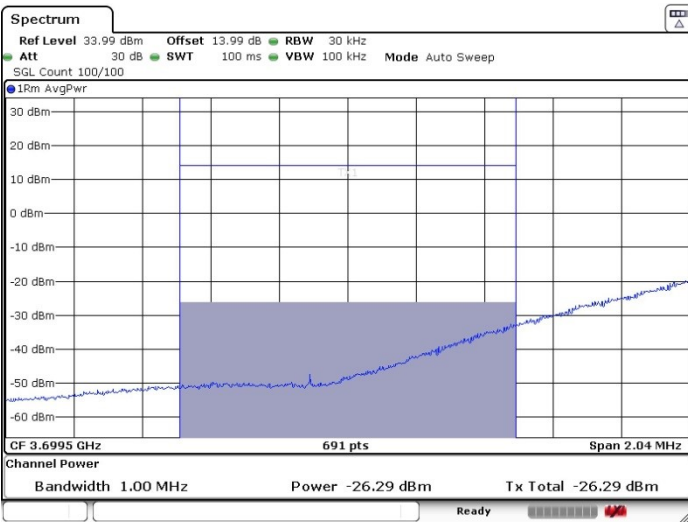


Date: 13.MAR.2021 19:12:56

Date: 13.MAR.2021 19:35:33

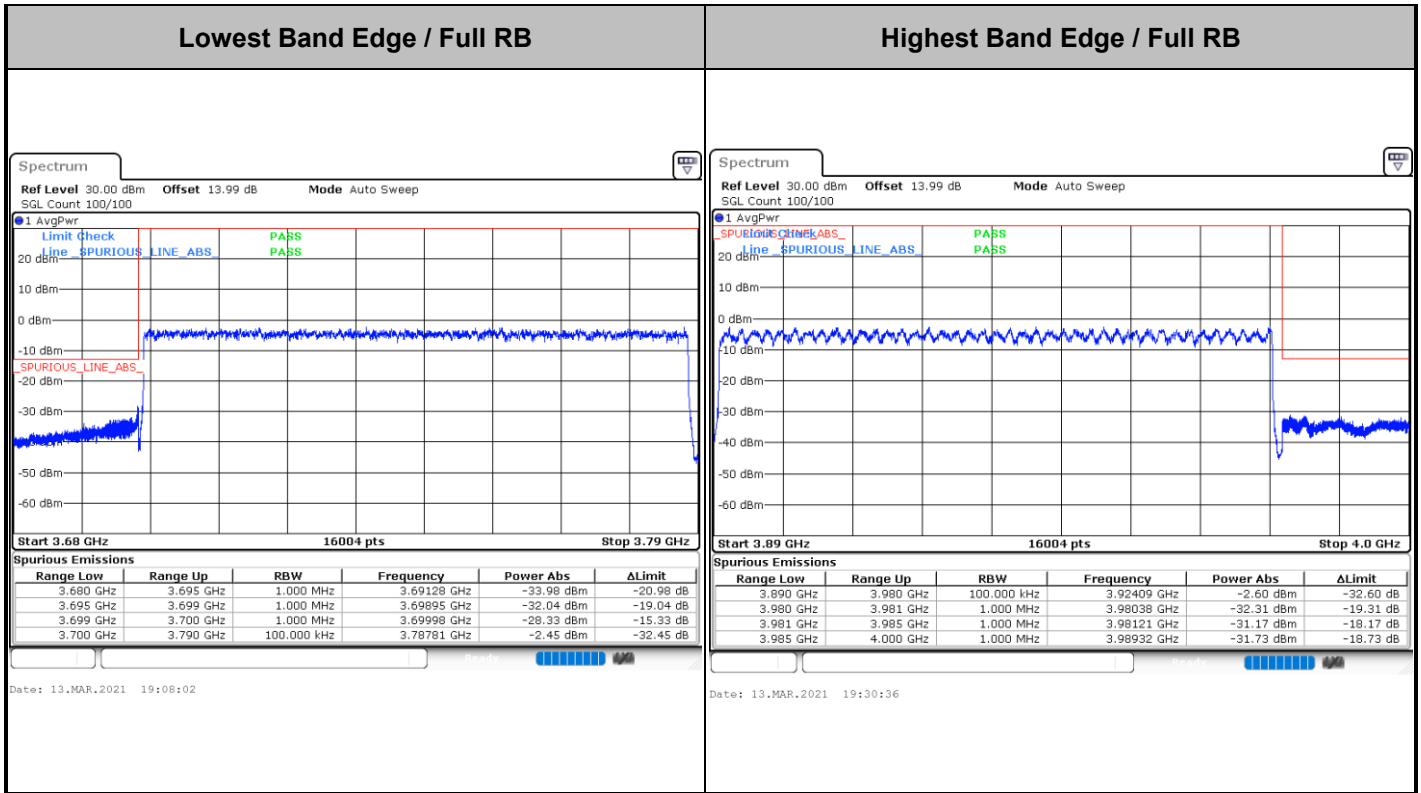
Channel Power <-13dBm pass

Channel Power <-13dBm pass



Date: 15.MAR.2021 15:22:56

Date: 15.MAR.2021 15:18:37

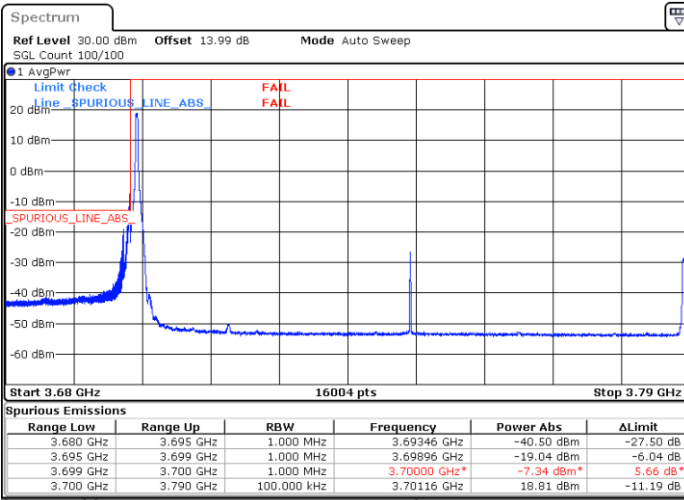




FR1 n77 / 90MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

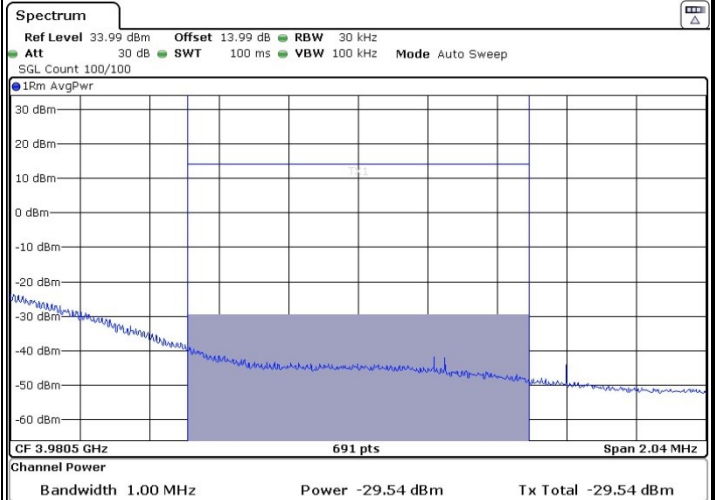
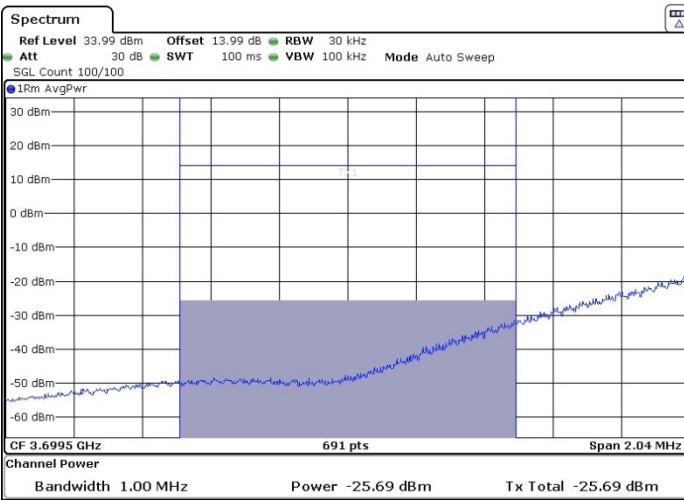


Date: 13.MAR.2021 19:12:17

Date: 13.MAR.2021 19:34:56

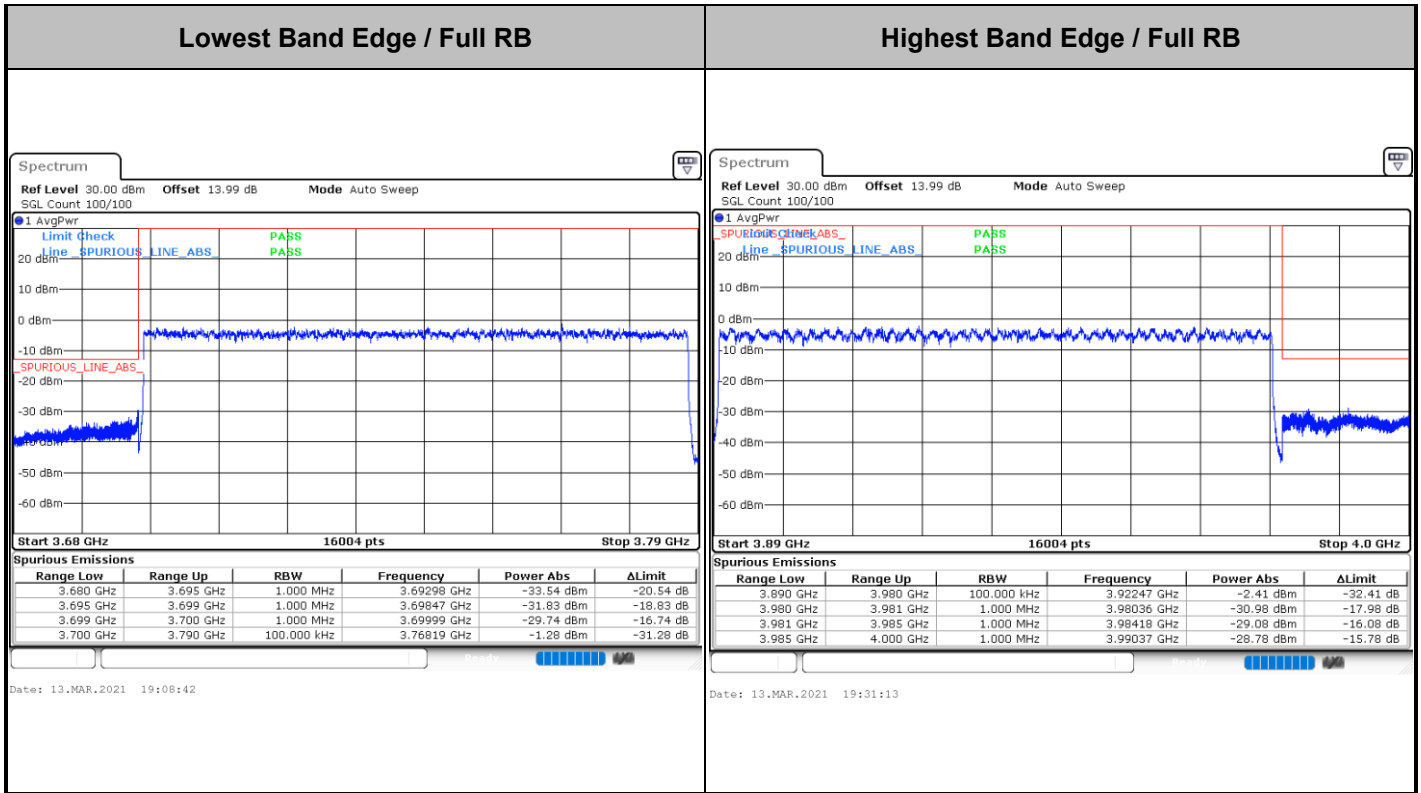
Channel Power <-13dBm pass

Channel Power <-13dBm pass



Date: 15.MAR.2021 15:22:22

Date: 15.MAR.2021 15:19:08

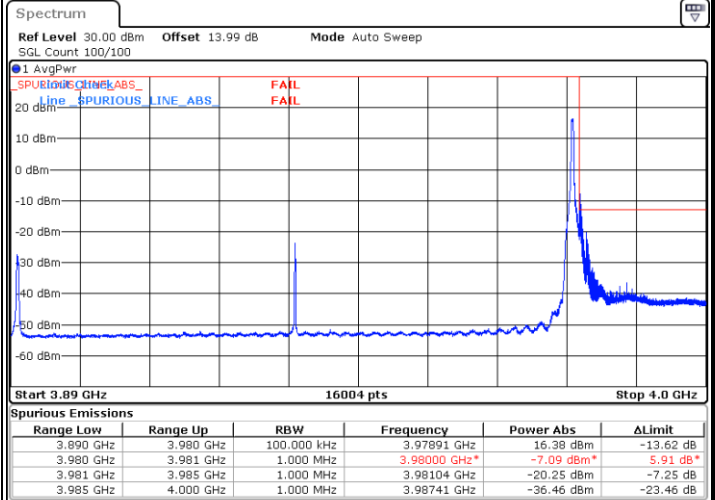
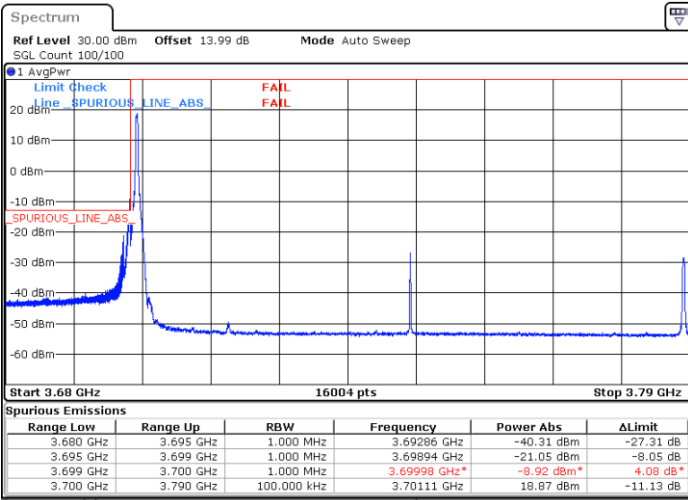




FR1 n77 / 90MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

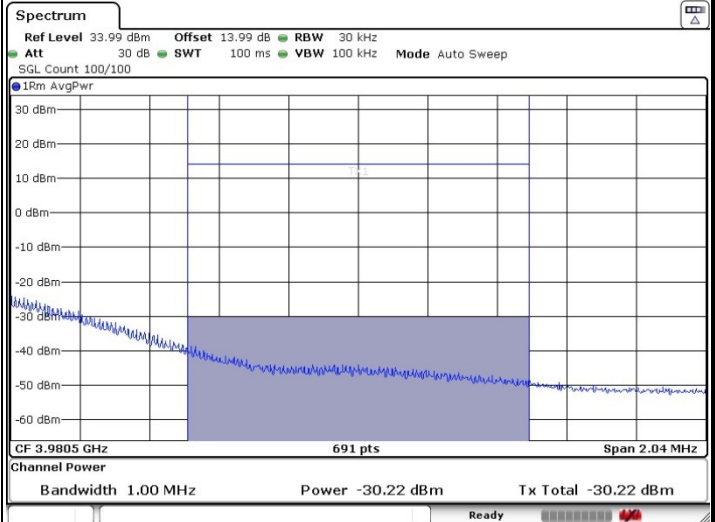
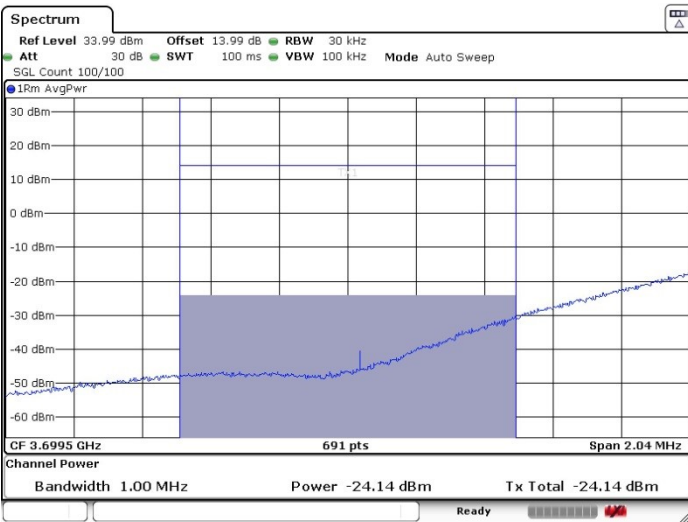


Date: 13.MAR.2021 19:11:28

Date: 13.MAR.2021 19:34:17

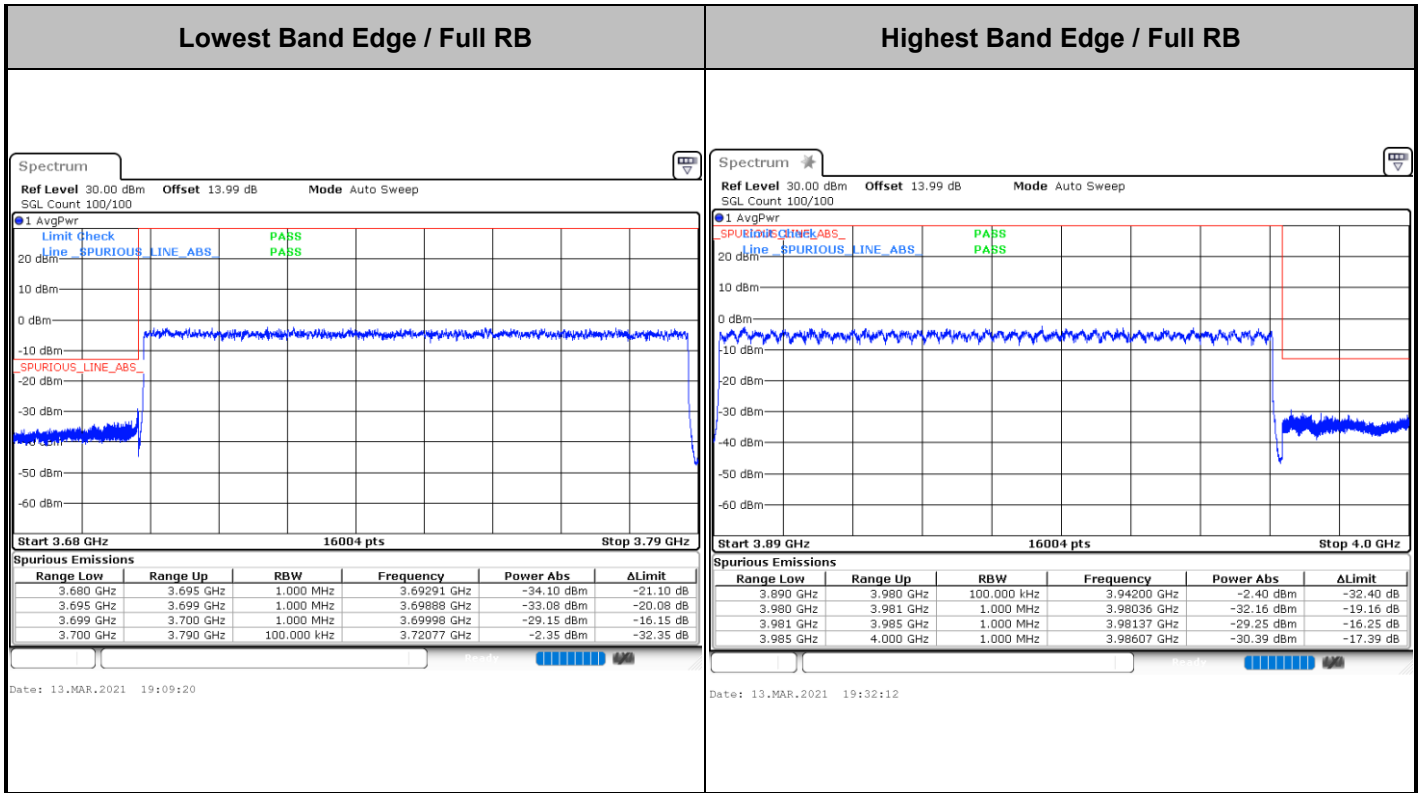
Channel Power <-13dBm pass

Channel Power <-13dBm pass



Date: 15.MAR.2021 15:21:54

Date: 15.MAR.2021 15:19:40

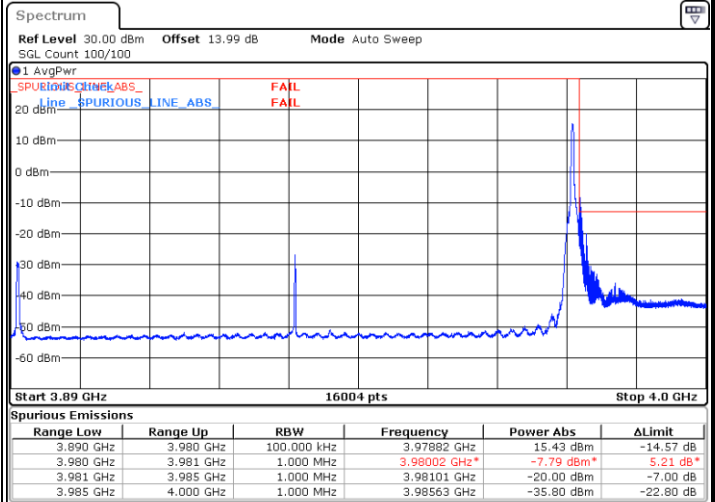
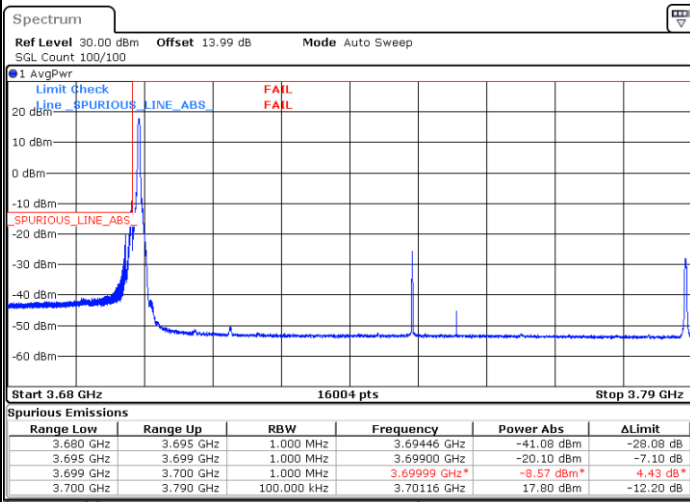




FR1 n77 / 90MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

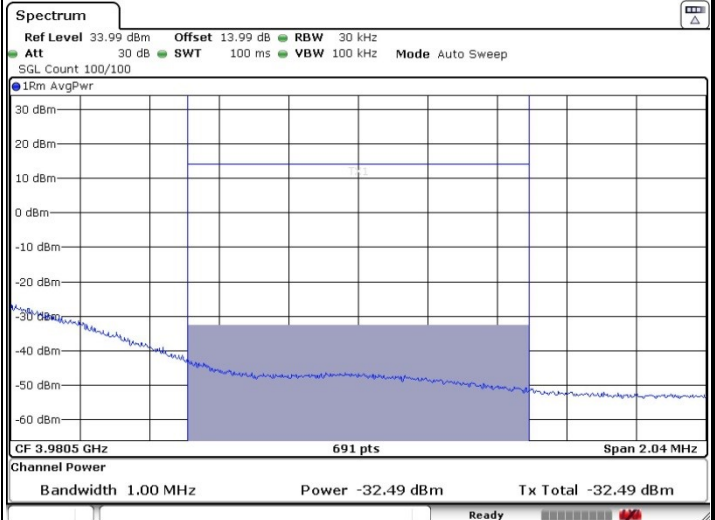
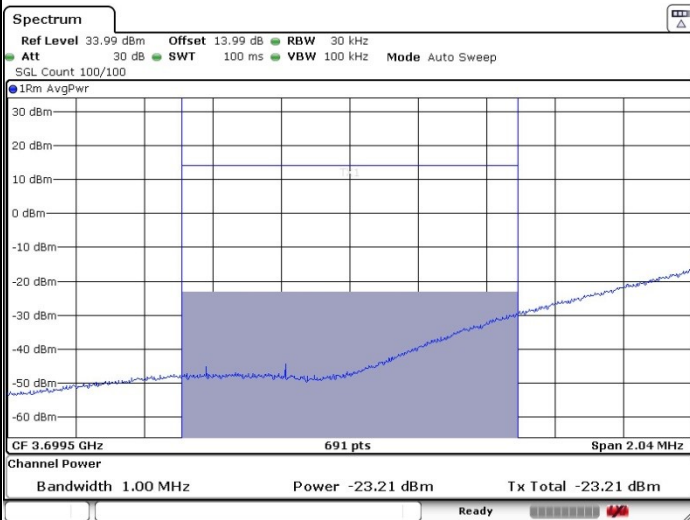


Date: 13.MAR.2021 19:10:50

Date: 13.MAR.2021 19:33:37

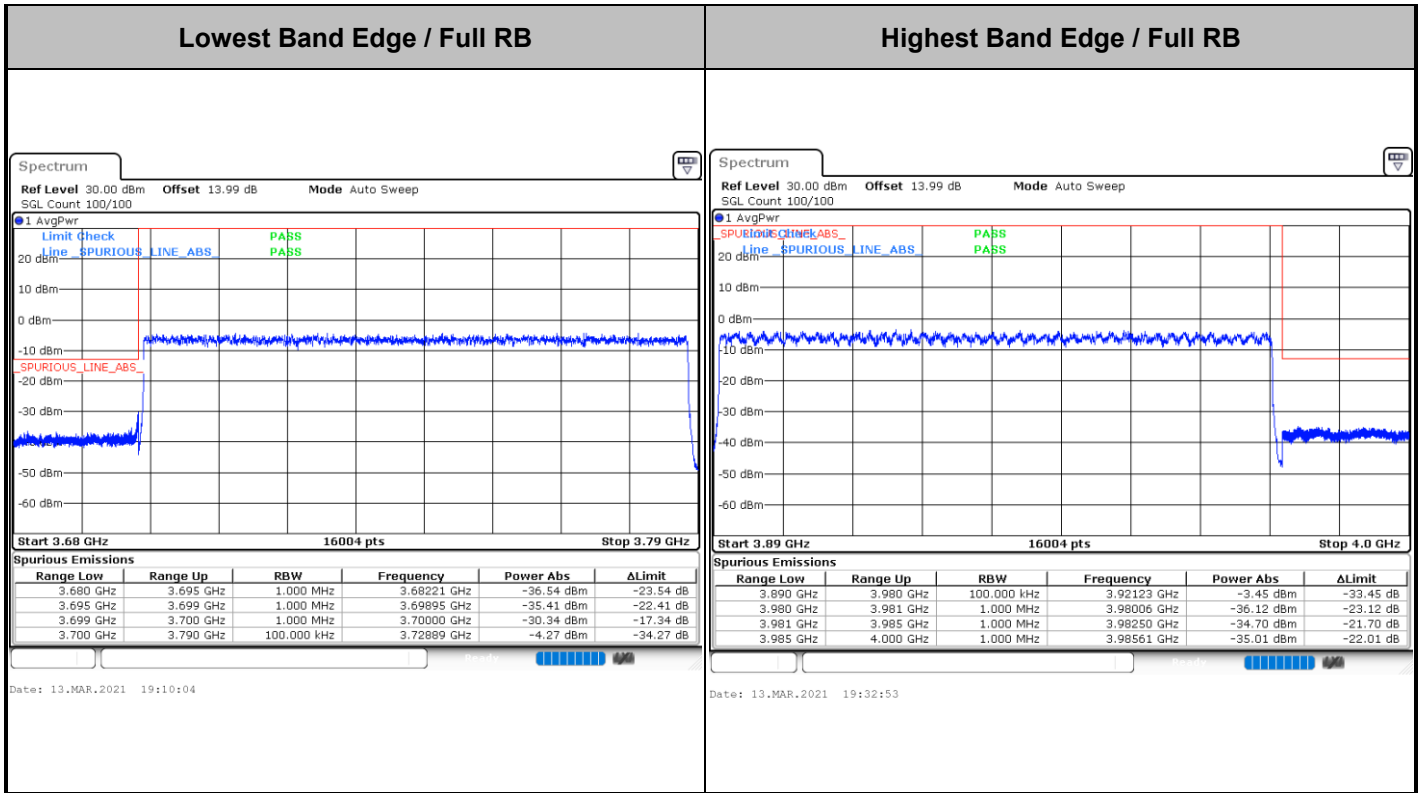
Channel Power <-13dBm pass

Channel Power <-13dBm pass



Date: 15.MAR.2021 15:21:10

Date: 15.MAR.2021 15:20:12

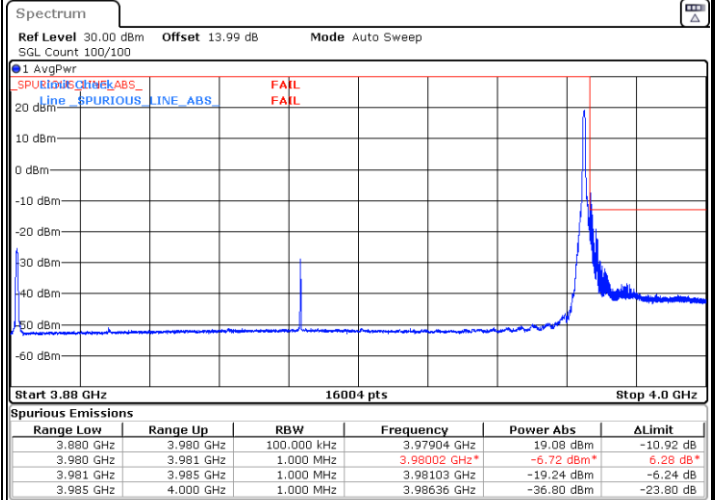
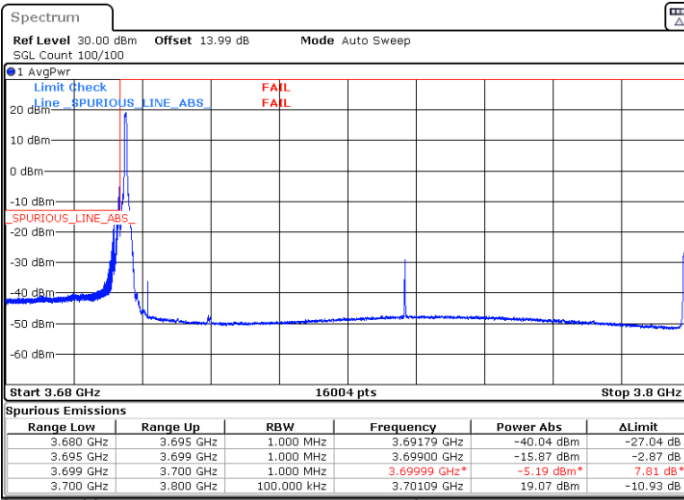




FR1 n77 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

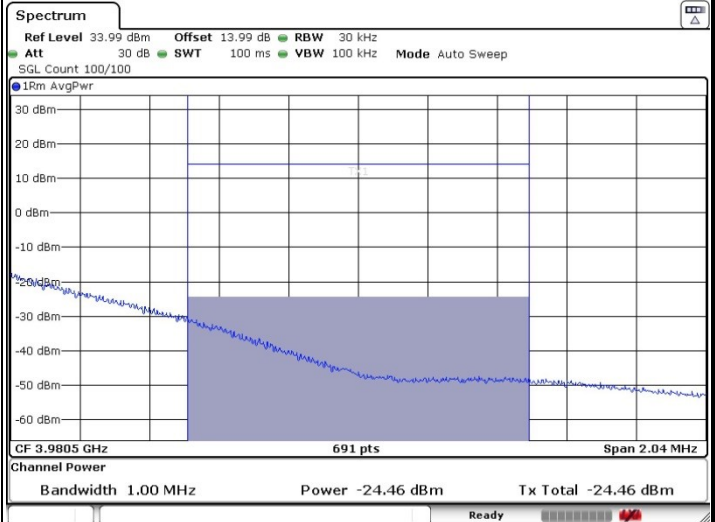
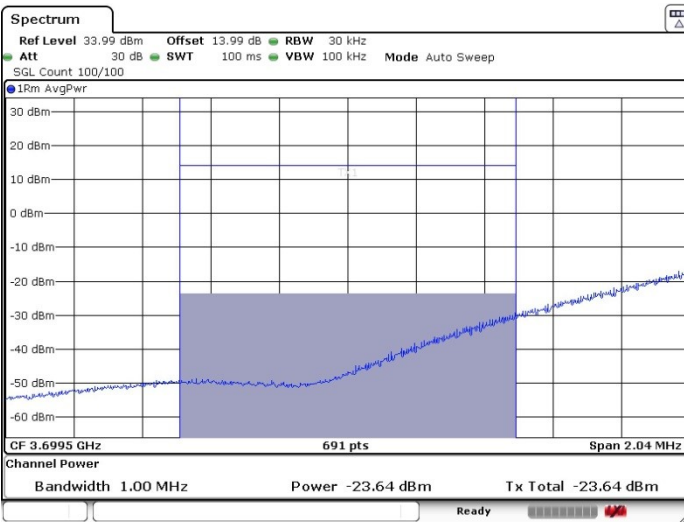


Date: 15.MAR.2021 14:36:31

Date: 15.MAR.2021 14:52:38

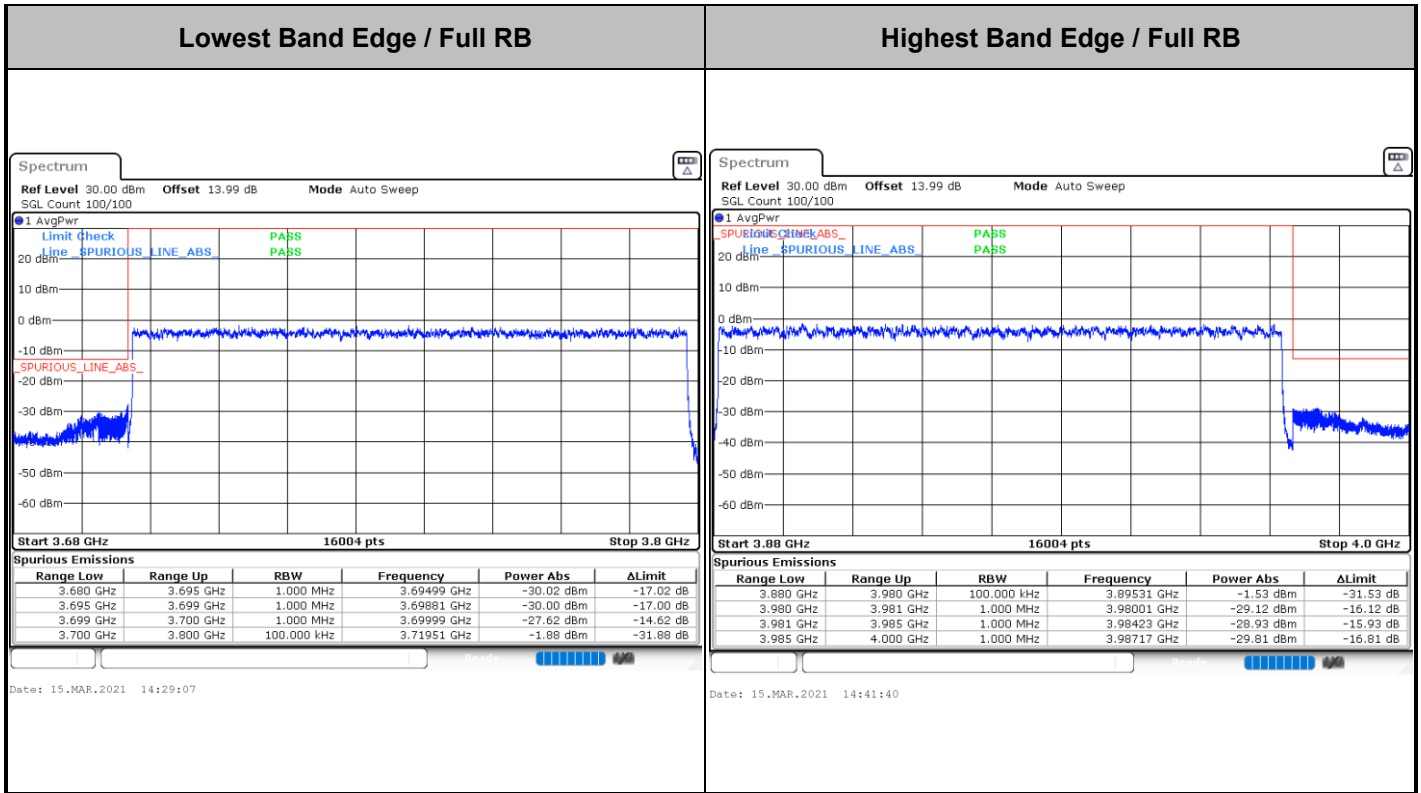
Channel Power <-13dBm pass

Channel Power <-13dBm pass



Date: 15.MAR.2021 15:11:43

Date: 15.MAR.2021 15:16:31

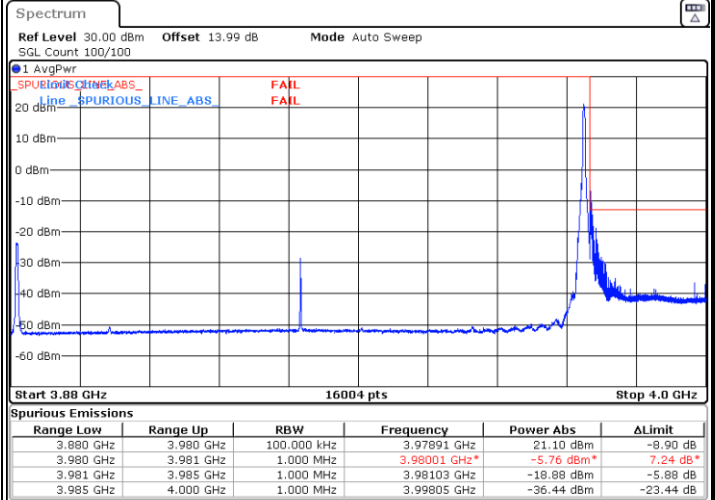
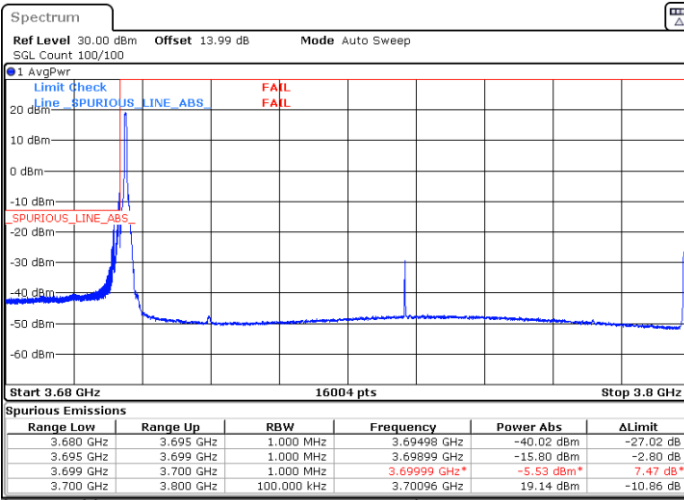




FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

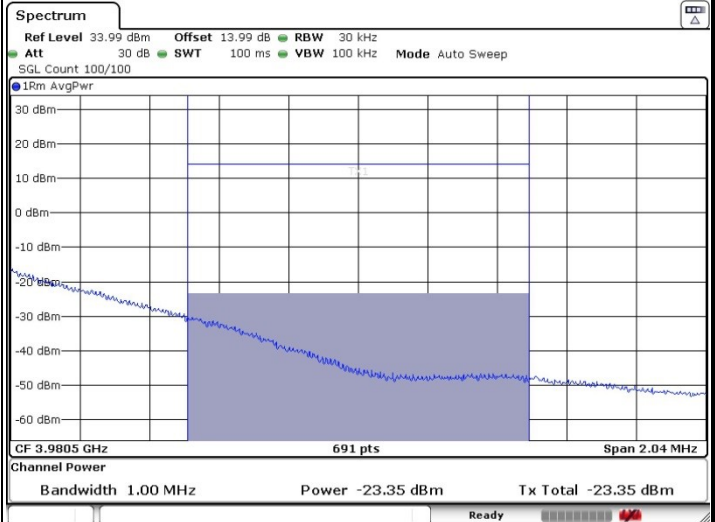
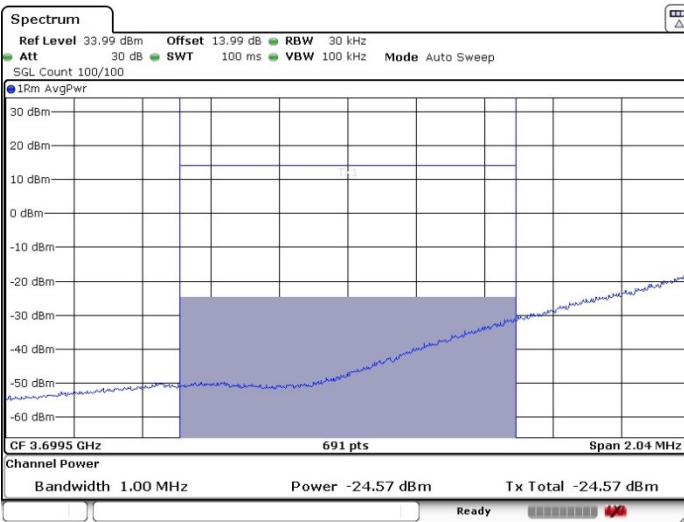


Date: 15.MAR.2021 14:35:49

Date: 15.MAR.2021 14:50:35

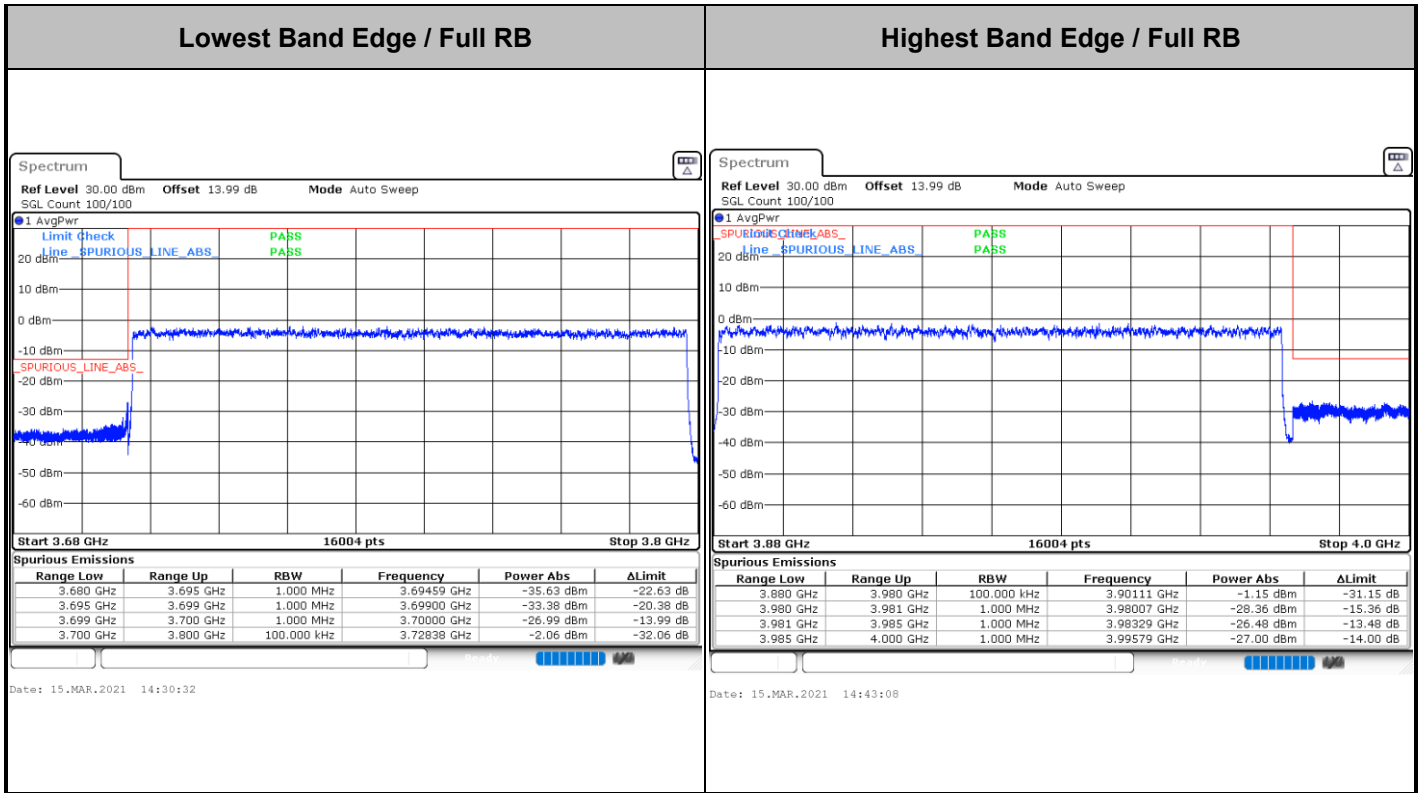
Channel Power <-13dBm pass

Channel Power <-13dBm pass



Date: 15.MAR.2021 15:12:25

Date: 15.MAR.2021 15:16:00

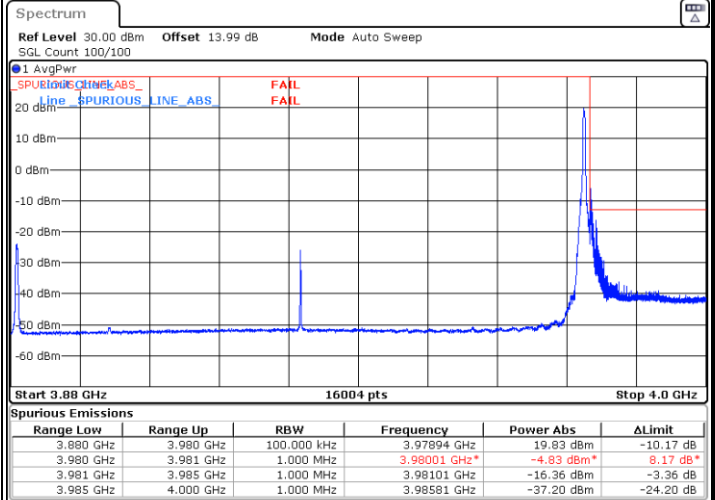
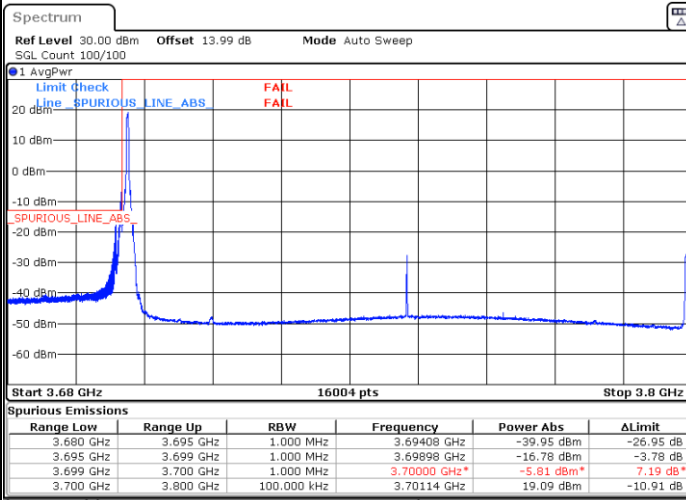




FR1 n77 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

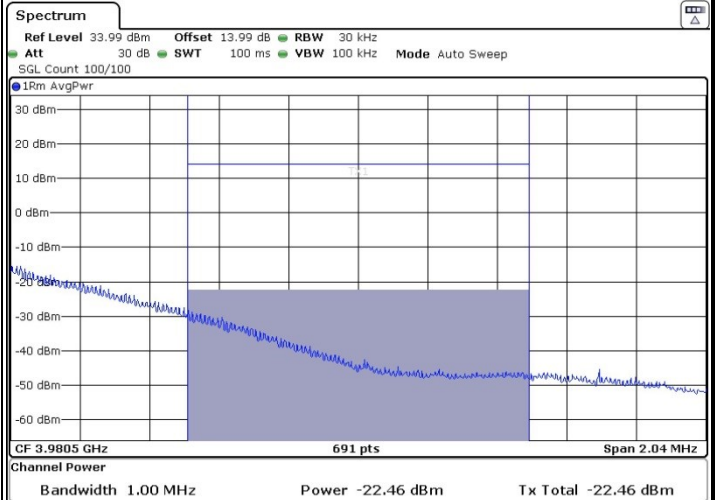
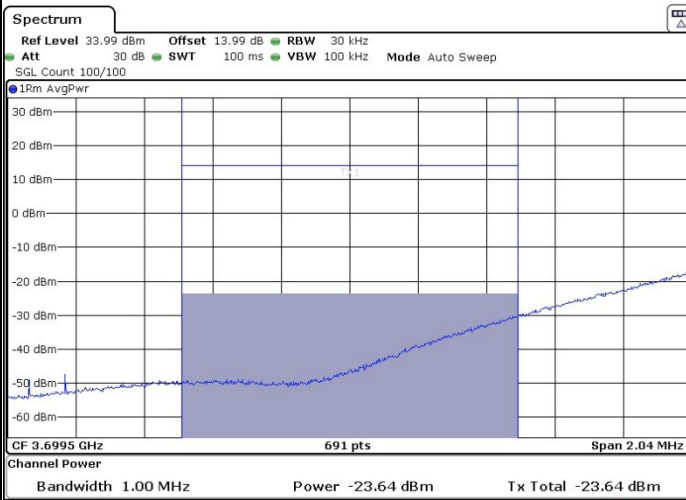


Date: 15.MAR.2021 14:35:11

Date: 15.MAR.2021 14:49:53

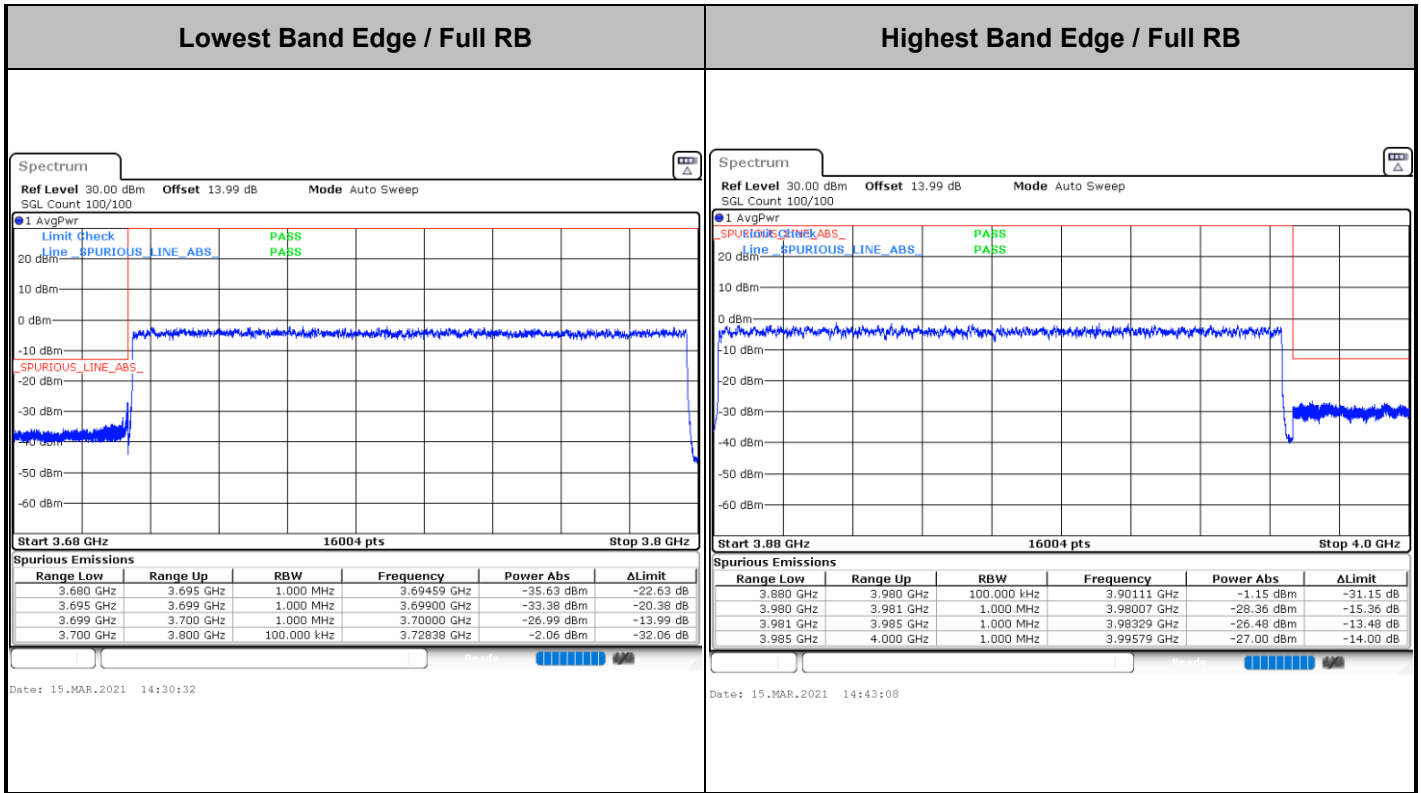
Channel Power <-13dBm pass

Channel Power <-13dBm pass



Date: 15.MAR.2021 15:12:52

Date: 15.MAR.2021 15:15:33

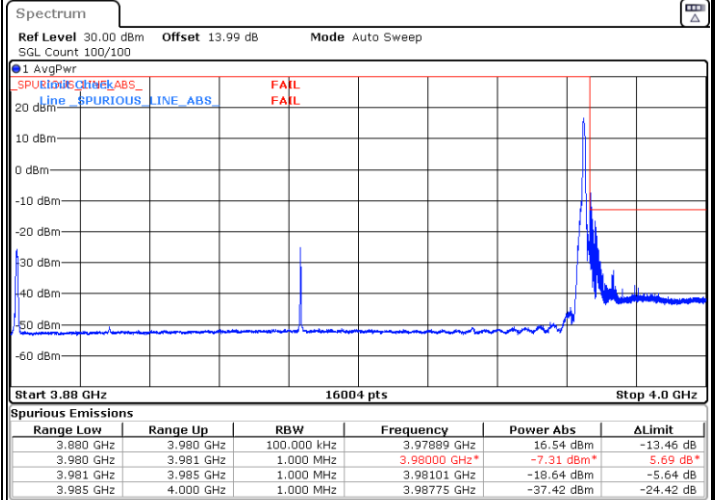
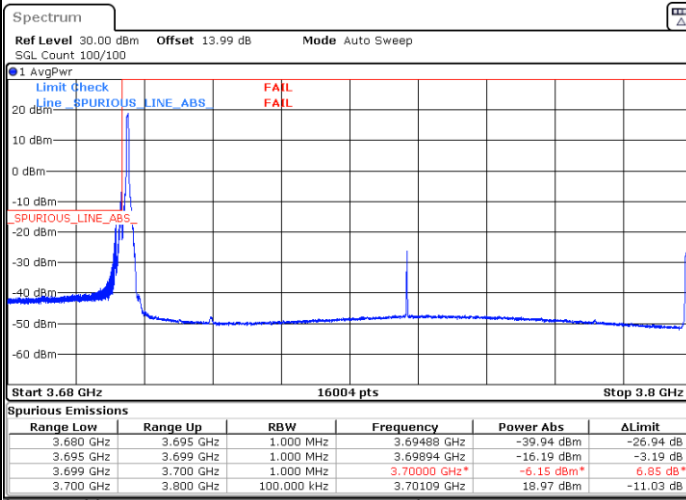




FR1 n77 / 100MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

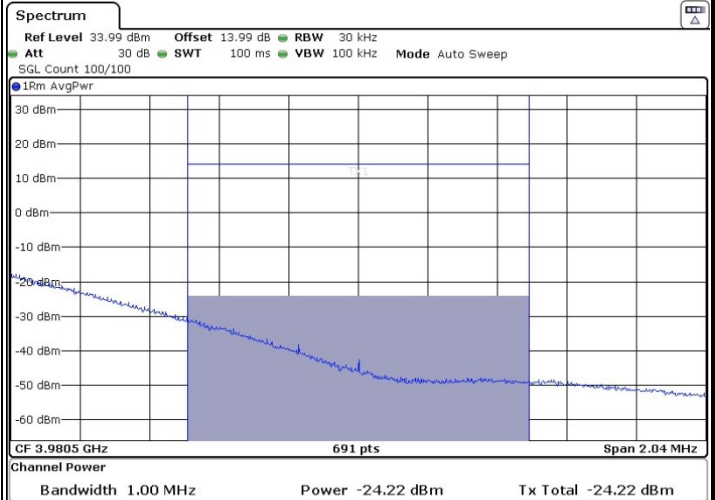
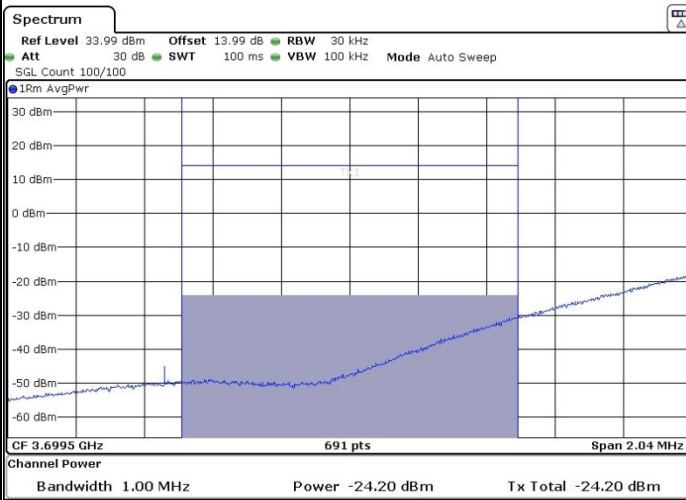


Date: 15.MAR.2021 14:34:33

Date: 15.MAR.2021 14:48:24

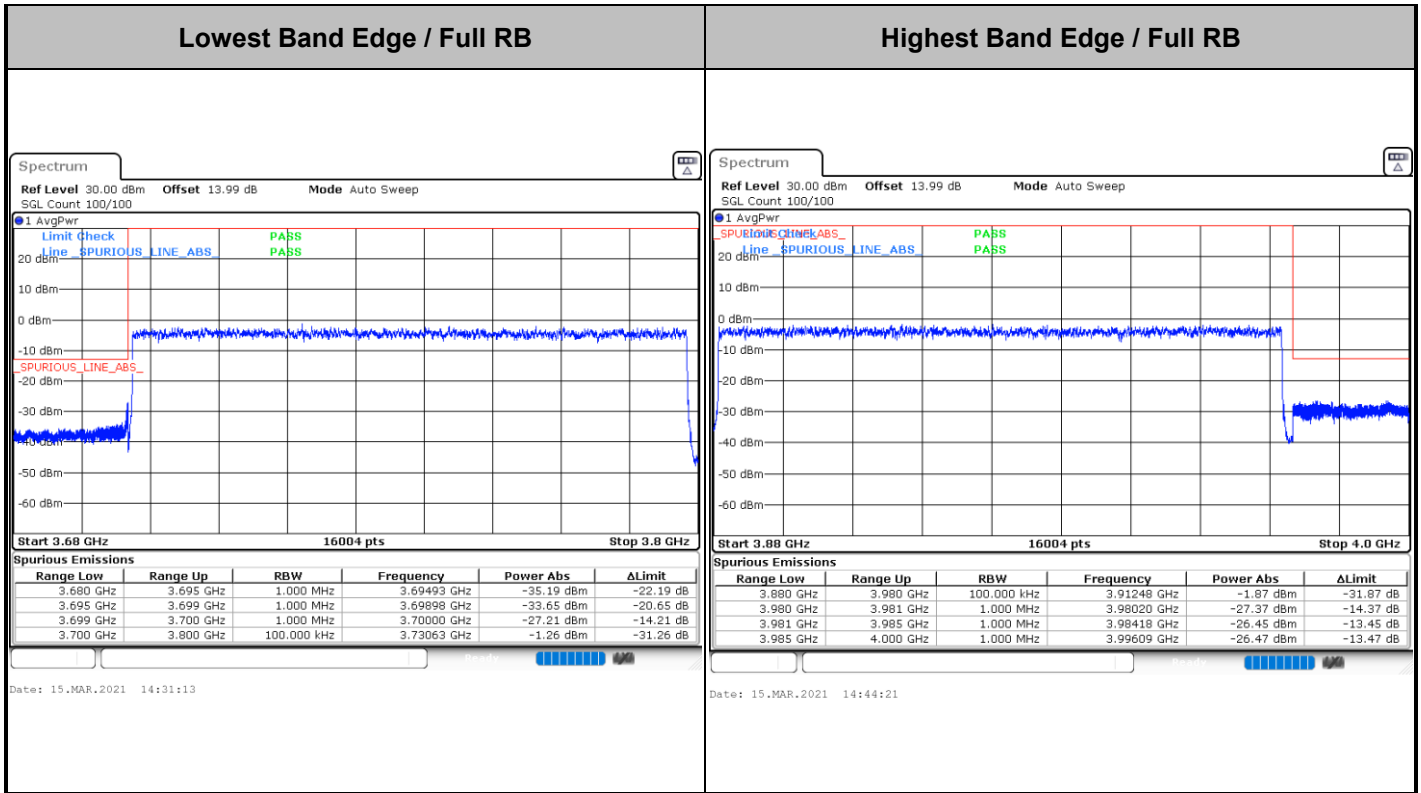
Channel Power <-13dBm pass

Channel Power <-13dBm pass



Date: 15.MAR.2021 15:13:19

Date: 15.MAR.2021 15:15:06

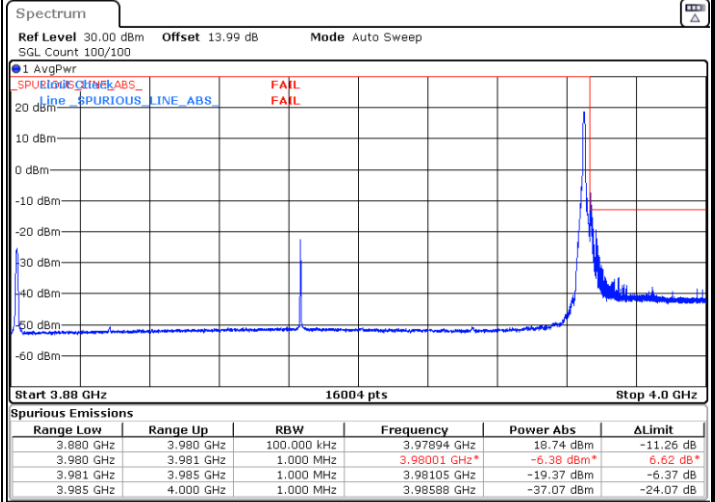
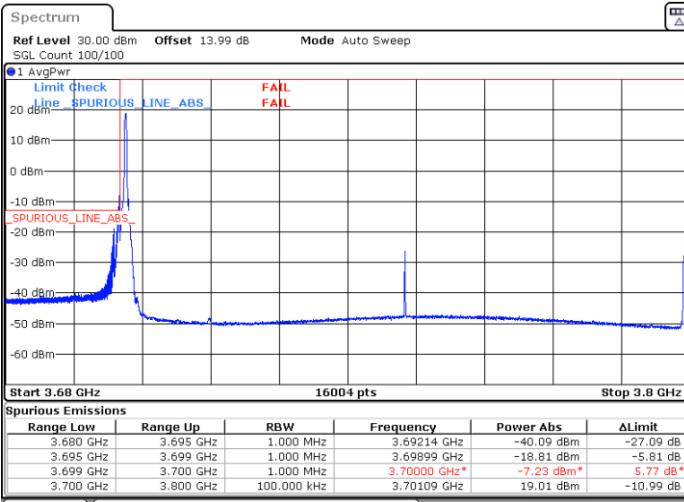




FR1 n77 / 100MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

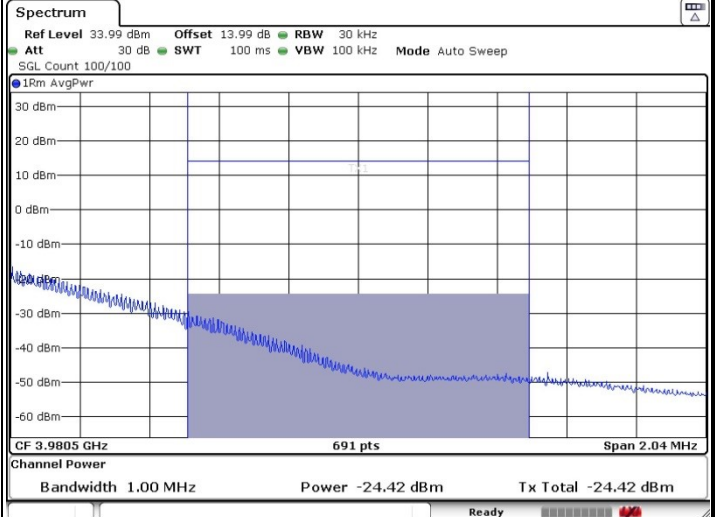
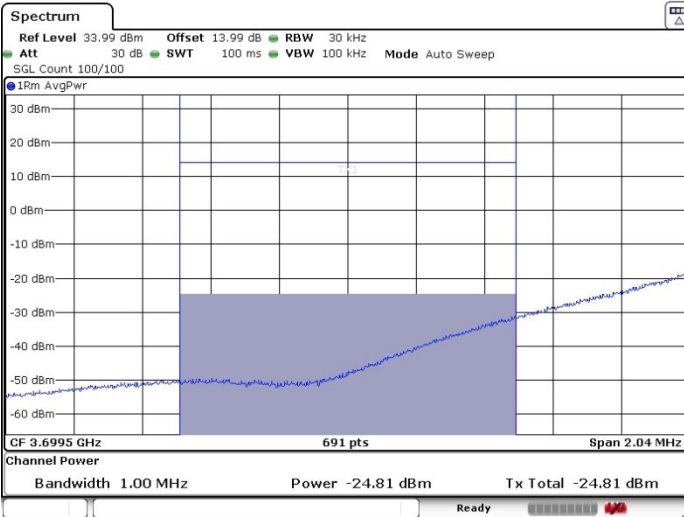


Date: 15.MAR.2021 14:33:57

Date: 15.MAR.2021 14:47:28

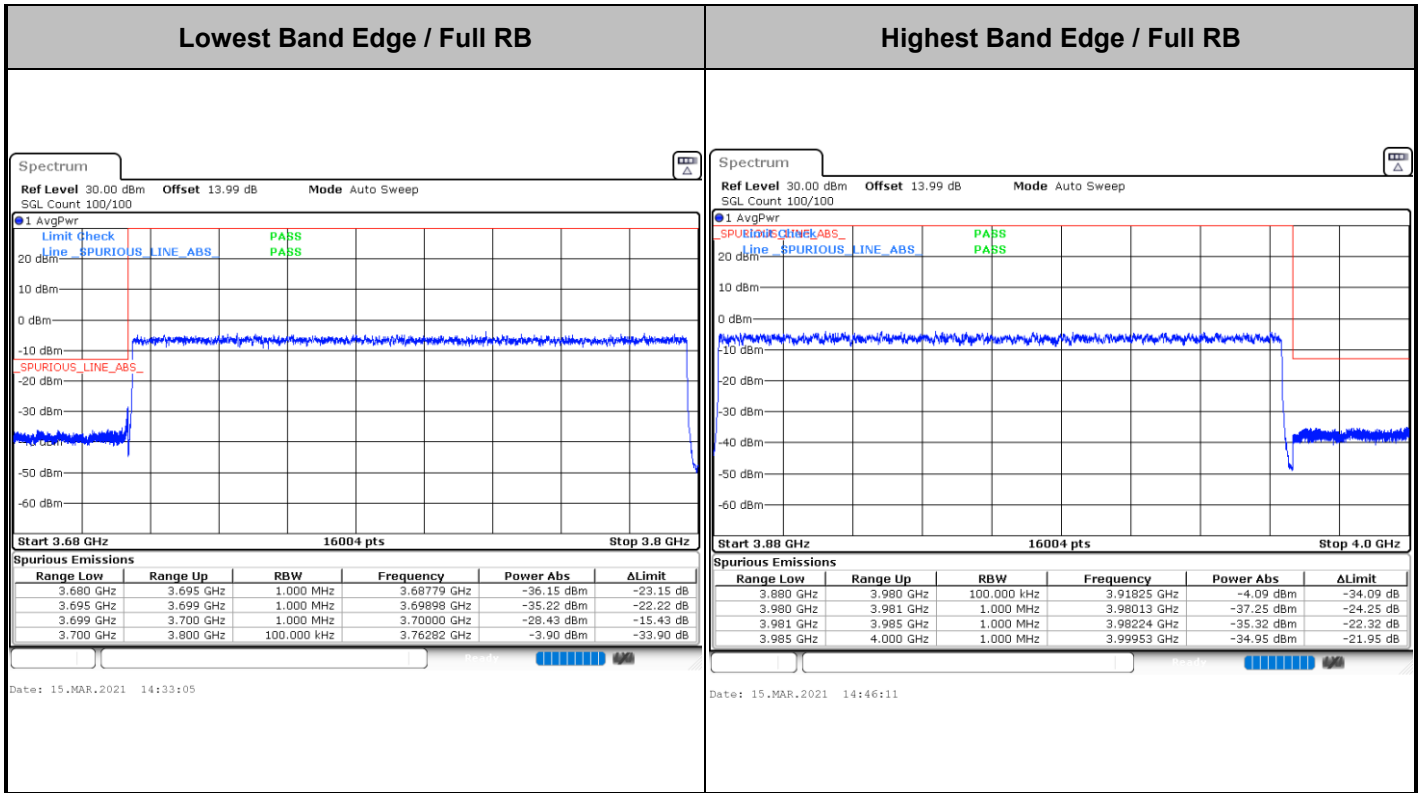
Channel Power <-13dBm pass

Channel Power <-13dBm pass



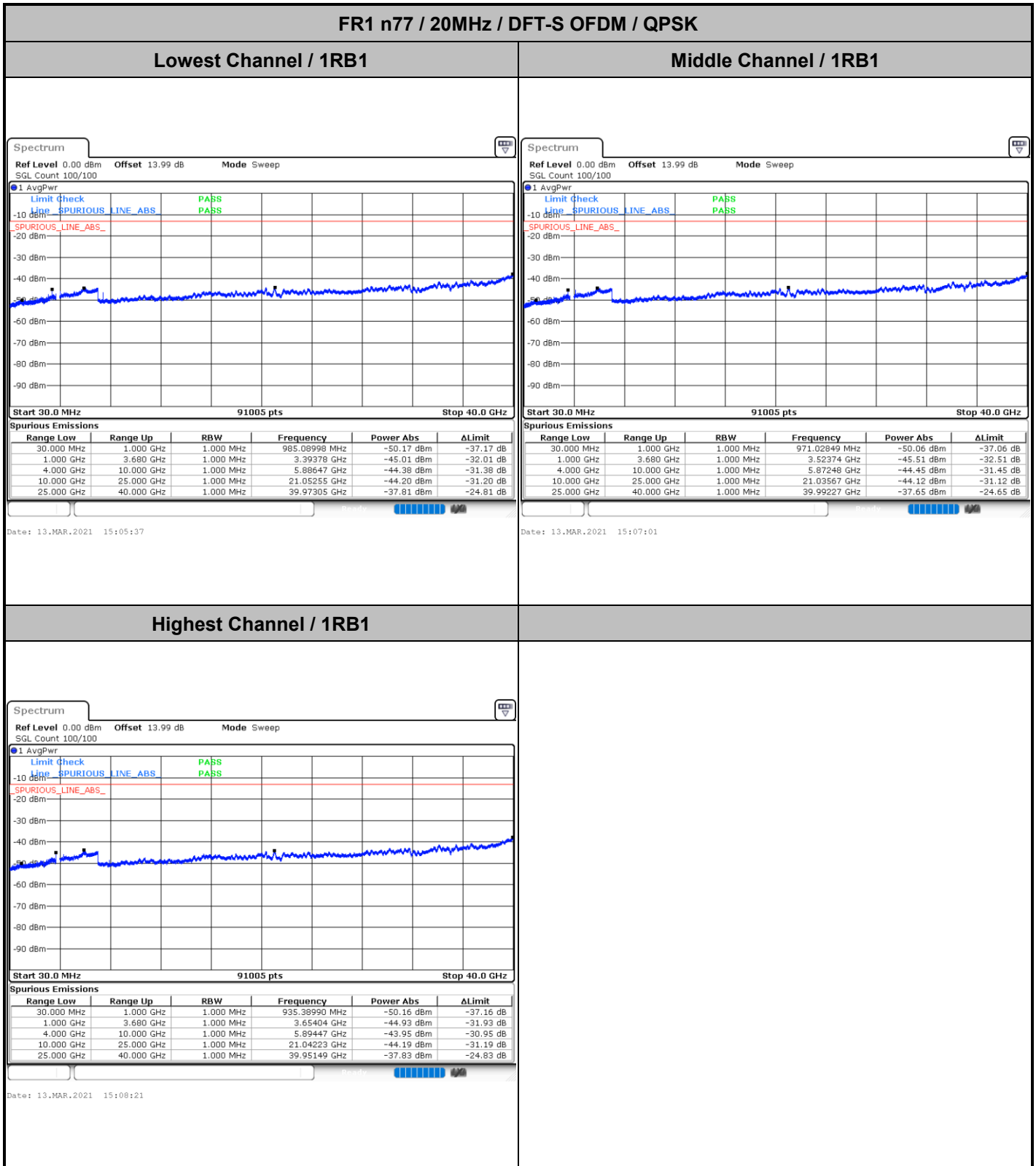
Date: 15.MAR.2021 15:13:46

Date: 15.MAR.2021 15:14:40





Conducted Spurious Emission

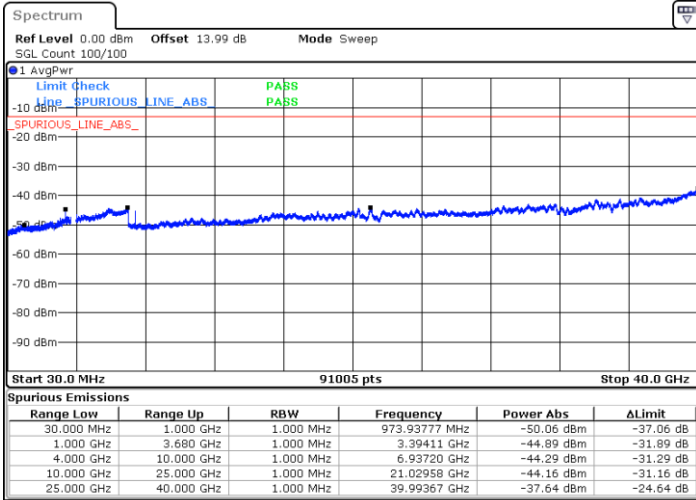




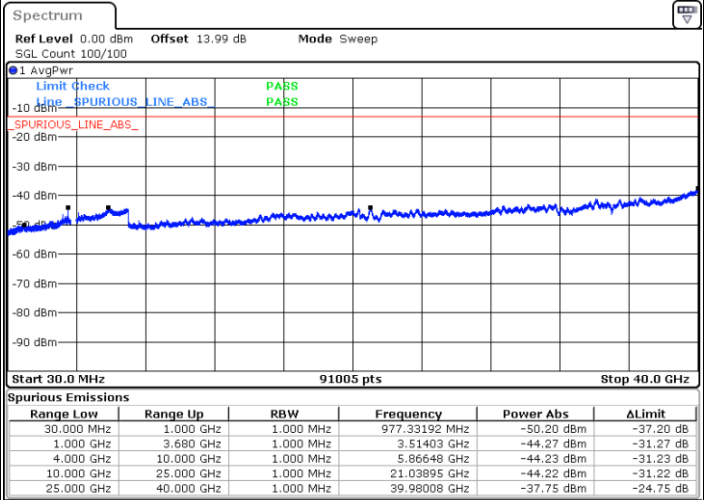
FR1 n77 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

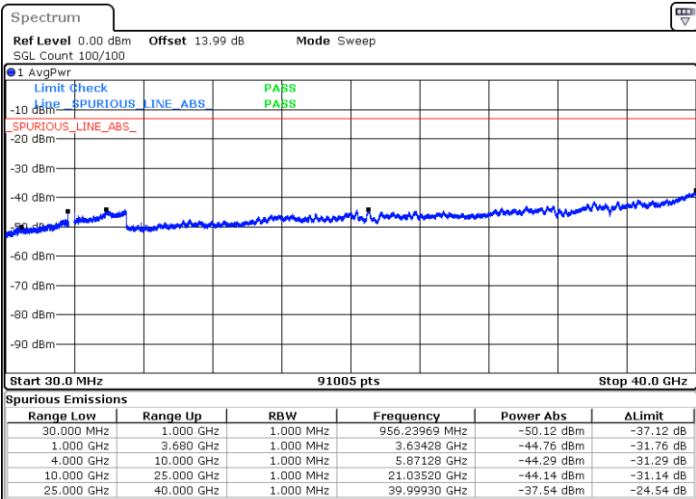


Date: 13.MAR.2021 15:57:48



Date: 13.MAR.2021 15:59:06

Highest Channel / 1RB1



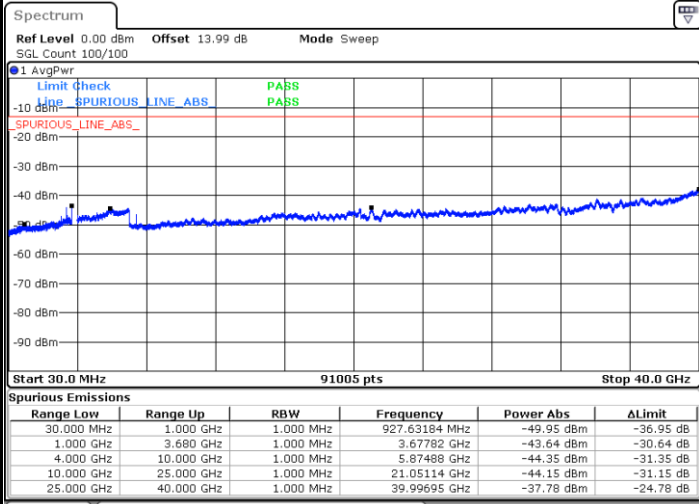
Date: 13.MAR.2021 16:00:22



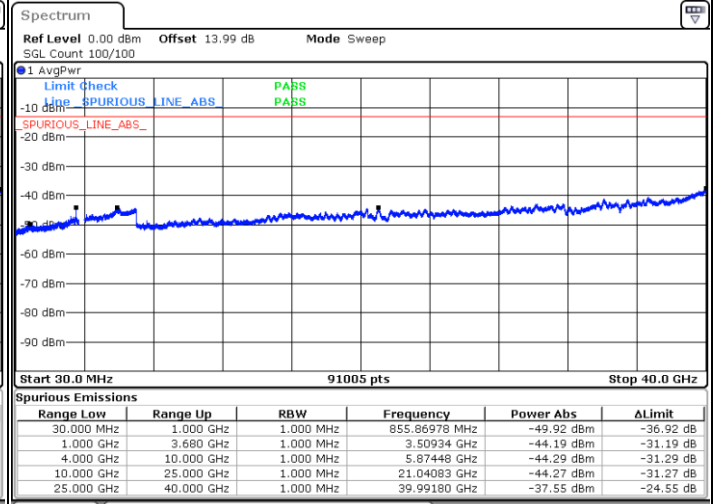
FR1 n77 /50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

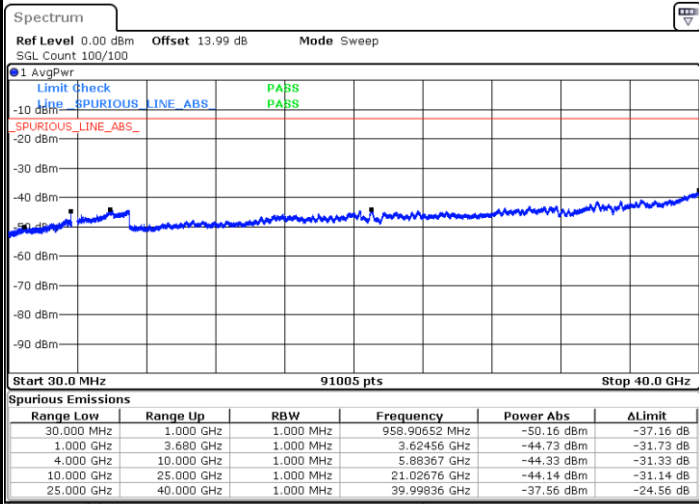


Date: 13.MAR.2021 17:21:04



Date: 13.MAR.2021 17:22:21

Highest Channel / 1RB1



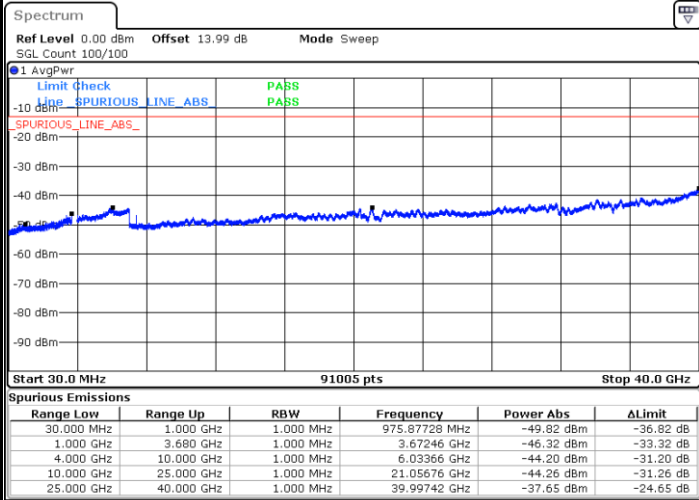
Date: 13.MAR.2021 17:23:40



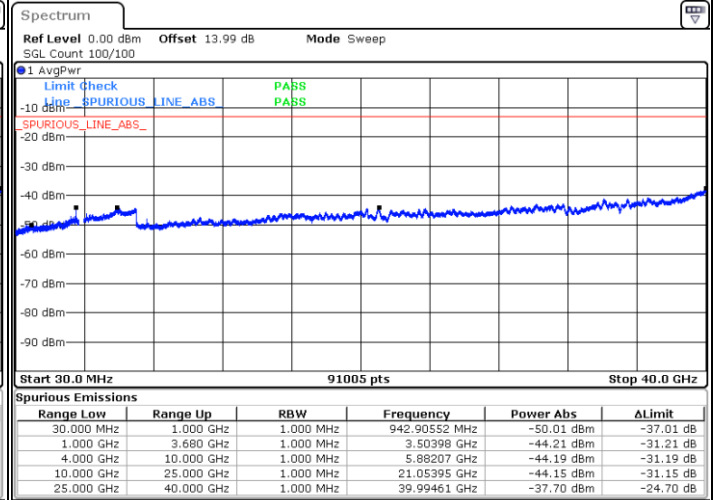
FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

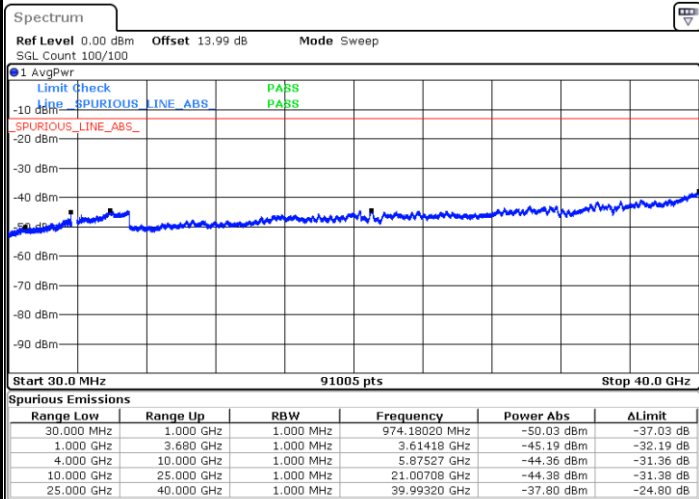


Date: 13.MAR.2021 18:38:18



Date: 13.MAR.2021 18:39:37

Highest Channel / 1RB1



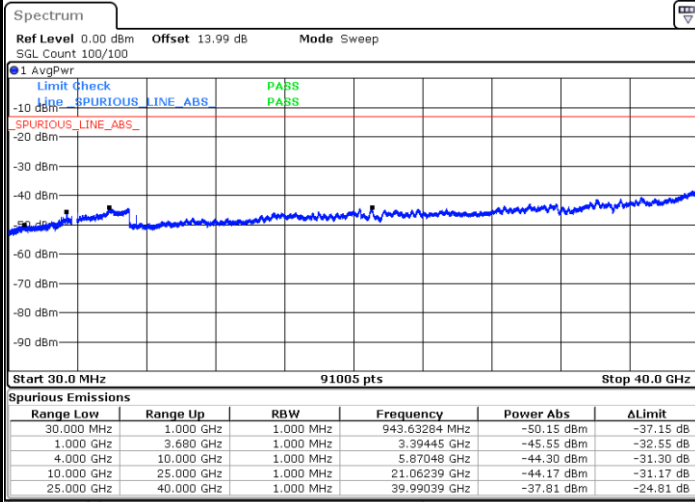
Date: 13.MAR.2021 18:40:54



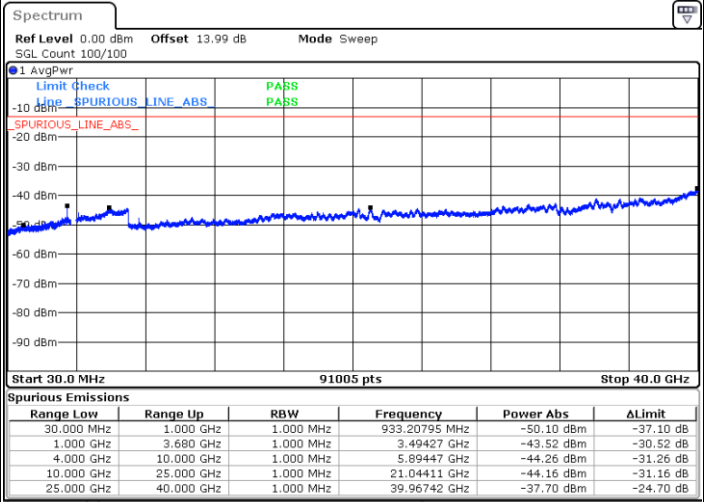
FR1 n77 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

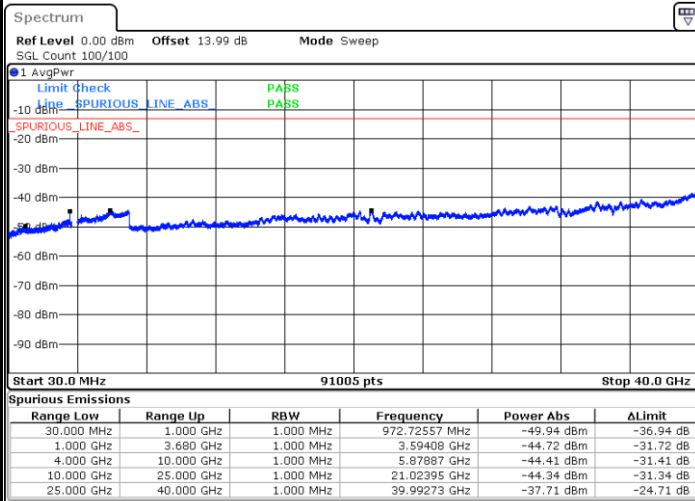


Date: 13.MAR.2021 18:56:12



Date: 13.MAR.2021 18:57:30

Highest Channel / 1RB1



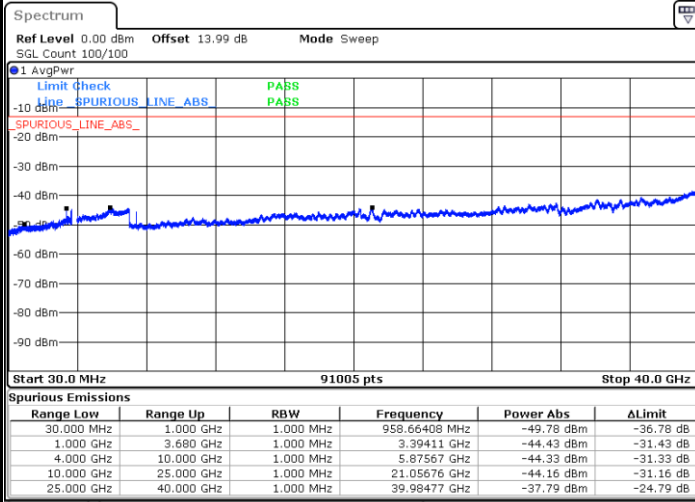
Date: 13.MAR.2021 18:58:47



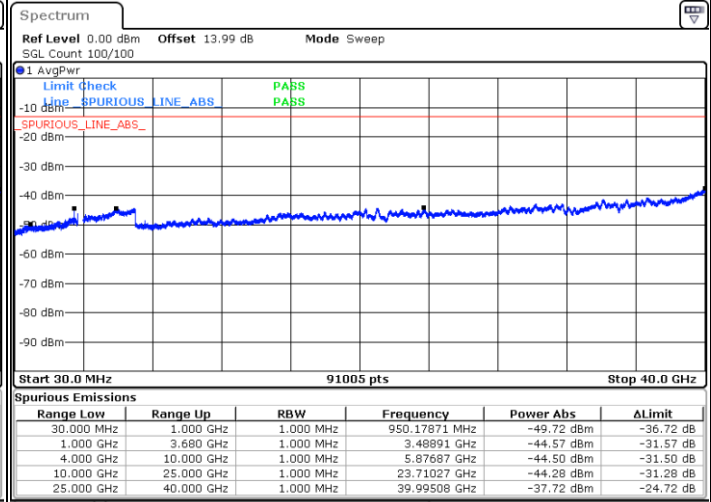
FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

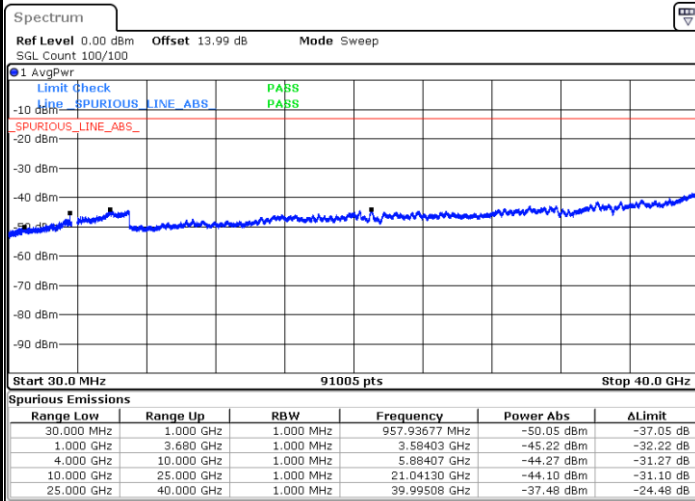


Date: 13.MAR.2021 19:24:23



Date: 13.MAR.2021 19:25:39

Highest Channel / 1RB1



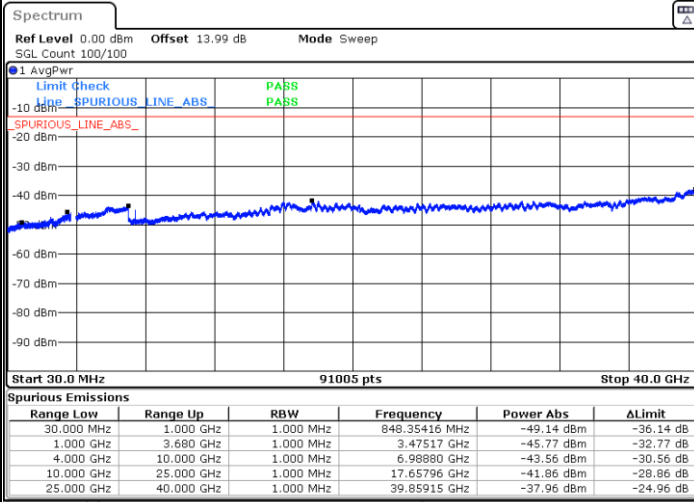
Date: 13.MAR.2021 19:28:57



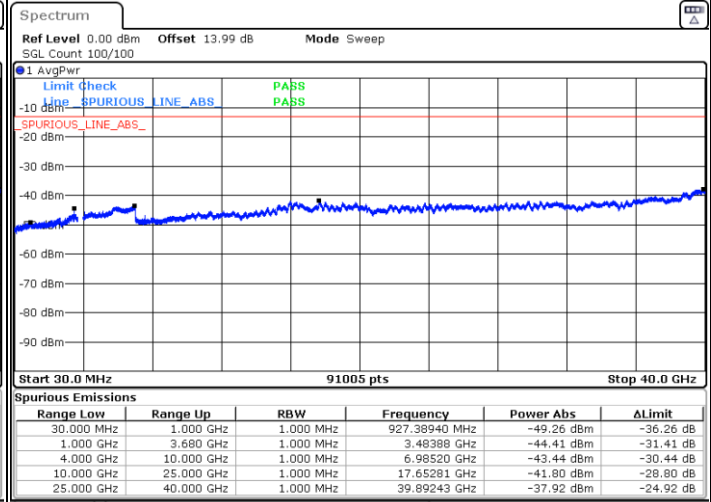
FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

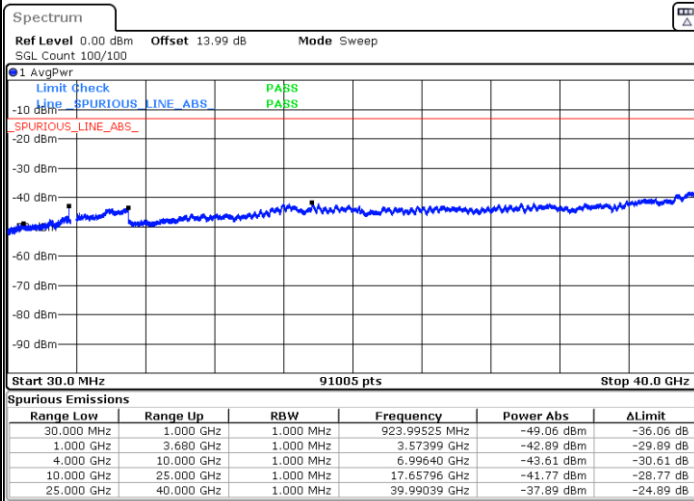


Date: 15.MAR.2021 14:37:48



Date: 15.MAR.2021 14:39:06

Highest Channel / 1RB1



Date: 15.MAR.2021 14:40:51



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0031	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0042	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

EN-DC_5A_n2A / LTE 10MHz + NR 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-56.54	-13	-43.54	-68.80	2.64	14.90	H
	5613	-54.13	-13	-41.13	-65.99	2.94	14.80	H
	7488	-52.46	-13	-39.46	-62.23	3.39	13.16	H
	3741	-56.37	-13	-43.37	-68.63	2.64	14.90	V
	5613	-54.88	-13	-41.88	-66.74	2.94	14.80	V
	7488	-52.60	-13	-39.60	-62.37	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_13A_n2A / LTE 10MHz + NR 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-56.60	-13	-43.60	-68.86	2.64	14.90	H
	5613	-54.13	-13	-41.13	-65.99	2.94	14.80	H
	7488	-52.50	-13	-39.50	-62.27	3.39	13.16	H
	3741	-56.37	-13	-43.37	-68.63	2.64	14.90	V
	5613	-54.30	-13	-41.30	-66.16	2.94	14.80	V
	7488	-52.60	-13	-39.60	-62.37	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_66A_n2A / LTE 20MHz + NR 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-56.85	-13	-43.85	-69.11	2.64	14.90	H
	5613	-55.05	-13	-42.05	-66.91	2.94	14.80	H
	7488	-52.47	-13	-39.47	-62.24	3.39	13.16	H
	3741	-56.46	-13	-43.46	-68.72	2.64	14.90	V
	5613	-55.41	-13	-42.41	-67.27	2.94	14.80	V
	7488	-52.23	-13	-39.23	-62.00	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_48A_n2A / LTE 20MHz + NR 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-56.98	-13	-43.98	-69.24	2.64	14.90	H
	5613	-54.76	-13	-41.76	-66.62	2.94	14.80	H
	7488	-52.48	-13	-39.48	-62.25	3.39	13.16	H
	3741	-56.52	-13	-43.52	-68.78	2.64	14.90	V
	5613	-55.31	-13	-42.31	-67.17	2.94	14.80	V
	7488	-52.44	-13	-39.44	-62.21	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n5A / LTE 20MHz + NR 20MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-63.40	-13	-50.40	-70.37	1.58	10.70	H
	2496	-57.26	-13	-44.26	-65.51	2.102	12.50	H
	3330	-58.50	-13	-45.50	-67.39	2.856	13.90	H
	1664	-62.76	-13	-49.76	-69.73	1.58	10.70	V
	2496	-54.41	-13	-41.41	-62.66	2.10	12.50	V
	3330	-58.27	-13	-45.27	-67.16	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_66A_n5A / LTE 20MHz + NR 20MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-61.92	-13	-48.92	-68.89	1.58	10.70	H
	2496	-54.75	-13	-41.75	-63.00	2.102	12.50	H
	3330	-58.58	-13	-45.58	-67.47	2.856	13.90	H
	1664	-61.83	-13	-48.83	-68.80	1.58	10.70	V
	2496	-50.06	-13	-37.06	-58.31	2.10	12.50	V
	3330	-58.57	-13	-45.57	-67.46	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_48A_n5A / LTE 20MHz + NR 20MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-64.09	-13	-51.09	-71.06	1.58	10.70	H
	2496	-58.69	-13	-45.69	-66.94	2.102	12.50	H
	3328	-58.26	-13	-45.26	-67.15	2.856	13.90	H
	1664	-62.83	-13	-49.83	-69.80	1.58	10.70	V
	2496	-56.44	-13	-43.44	-64.69	2.10	12.50	V
	3328	-58.53	-13	-45.53	-67.42	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n66A / LTE 20MHz + NR 40MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-58.24	-13	-45.24	-68.98	2.604	13.34	H
	5208	-52.97	-13	-39.97	-63.48	3.011	13.52	H
	6948	-53.86	-13	-40.86	-64.06	3.271	13.47	H
	3471	-58.29	-13	-45.29	-69.03	2.604	13.34	V
	5208	-54.63	-13	-41.63	-65.14	3.011	13.52	V
	6948	-53.91	-13	-40.91	-64.11	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_5A_n66A / LTE 10MHz + NR 40MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-56.66	-13	-43.66	-67.40	2.604	13.34	H
	5208	-54.77	-13	-41.77	-65.28	3.011	13.52	H
	6948	-54.38	-13	-41.38	-64.58	3.271	13.47	H
	3471	-55.57	-13	-42.57	-66.31	2.604	13.34	V
	5208	-55.31	-13	-42.31	-65.82	3.011	13.52	V
	6948	-54.19	-13	-41.19	-64.39	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_13A_n66A / LTE 10MHz + NR 40MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-55.54	-13	-42.54	-66.28	2.604	13.34	H
	5208	-54.98	-13	-41.98	-65.49	3.011	13.52	H
	6948	-54.55	-13	-41.55	-64.75	3.271	13.47	H
	3471	-54.01	-13	-41.01	-64.75	2.604	13.34	V
	5208	-55.33	-13	-42.33	-65.84	3.011	13.52	V
	6948	-54.41	-13	-41.41	-64.61	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_48A_n66A / LTE 20MHz + NR 40MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-58.22	-13	-45.22	-68.96	2.604	13.34	H
	5208	-54.79	-13	-41.79	-65.30	3.011	13.52	H
	6948	-54.79	-13	-41.79	-64.99	3.271	13.47	H
	3471	-58.32	-13	-45.32	-69.06	2.604	13.34	V
	5208	-54.95	-13	-41.95	-65.46	3.011	13.52	V
	6948	-54.32	-13	-41.32	-64.52	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n77A / LTE 20MHz + NR 100MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590	-61.47	-13	-48.47	-71.95	2.76	13.24	H
	11370	-52.49	-13	-39.49	-62.08	3.42	13.01	H
	15180	-61.04	-13	-48.04	-70.65	3.83	13.44	H
	7590	-61.39	-13	-48.39	-71.83	2.80	13.24	V
	11370	-47.49	-13	-34.49	-57.04	3.46	13.01	V
	15180	-61.13	-13	-48.13	-70.69	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_5A_n77A / LTE 10MHz + NR 100MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590	-61.11	-13	-48.11	-71.59	2.76	13.24	H
	11376	-46.42	-13	-33.42	-56.01	3.42	13.01	H
	15180	-58.94	-13	-45.94	-68.55	3.83	13.44	H
	7590	-61.07	-13	-48.07	-71.51	2.80	13.24	V
	11376	-45.66	-13	-32.66	-55.21	3.46	13.01	V
	15180	-60.63	-13	-47.63	-70.19	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_13A_n77A / LTE 10MHz + NR 100MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590	-61.11	-13	-48.11	-71.59	2.76	13.24	H
	11370	-49.42	-13	-36.42	-59.01	3.42	13.01	H
	15180	-60.97	-13	-47.97	-70.58	3.83	13.44	H
	7590	-60.08	-13	-47.08	-70.52	2.80	13.24	V
	11370	-41.87	-13	-28.87	-51.42	3.46	13.01	V
	15180	-60.95	-13	-47.95	-70.51	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_66A_n77A / LTE 20MHz + NR 100MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7590	-61.24	-13	-48.24	-71.72	2.76	13.24	H
	11370	-50.15	-13	-37.15	-59.74	3.42	13.01	H
	15180	-58.75	-13	-45.75	-68.36	3.83	13.44	H
	7590	-61.80	-13	-48.80	-72.24	2.80	13.24	V
	11370	-48.63	-13	-35.63	-58.18	3.46	13.01	V
	15180	-59.75	-13	-46.75	-69.31	3.88	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.