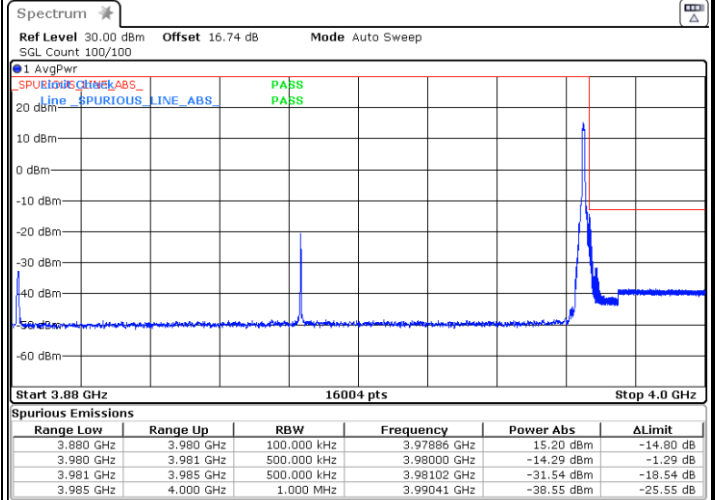
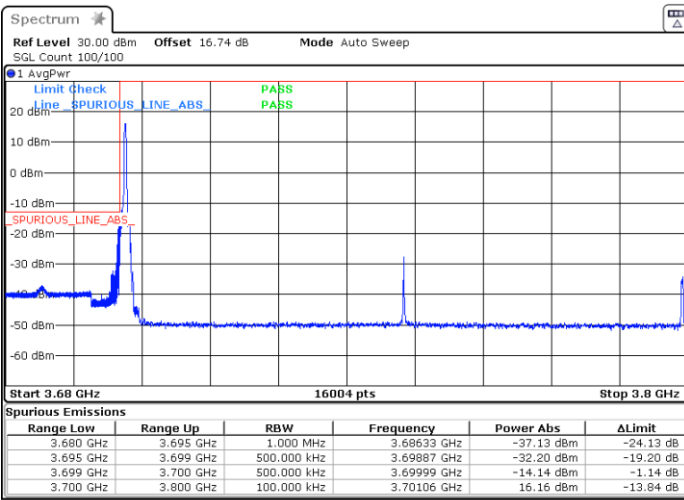




FR1 n77 / 100MHz / CP OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

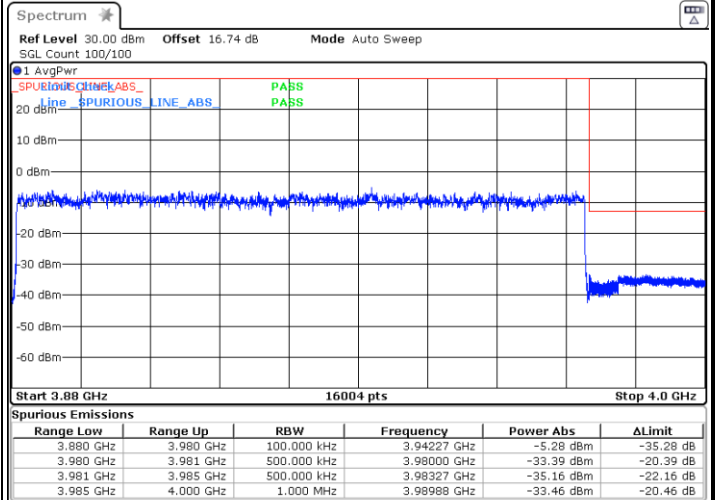
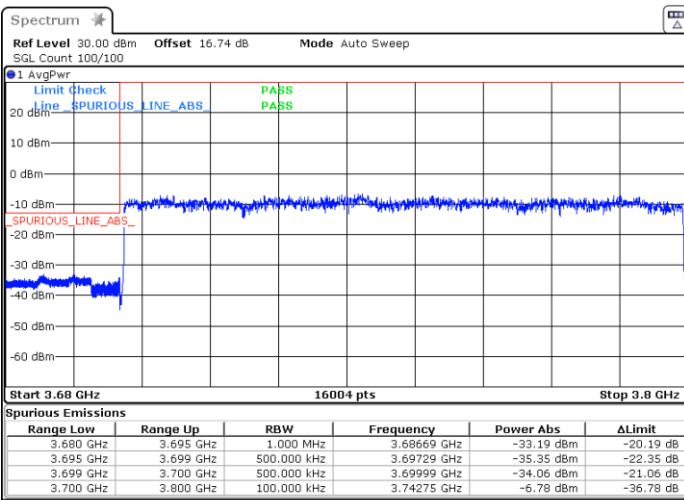


Date: 7.APR.2021 19:58:15

Date: 7.APR.2021 20:02:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7.APR.2021 19:56:26

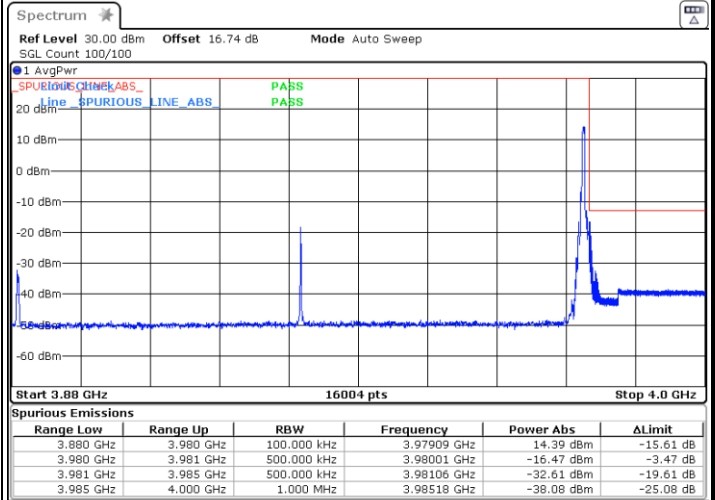
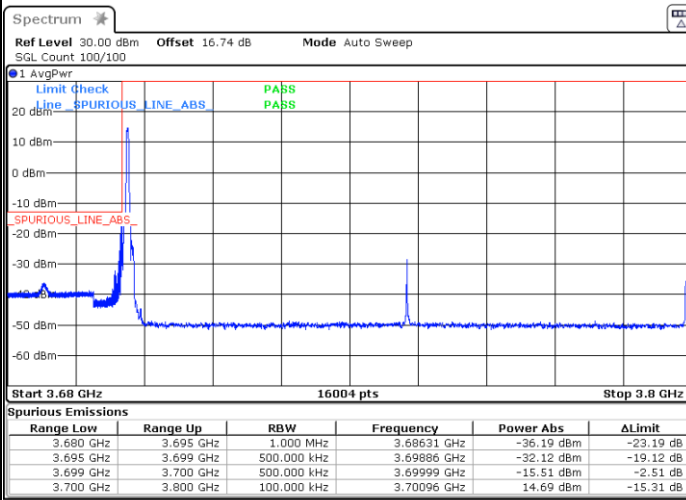
Date: 7.APR.2021 20:00:15



FR1 n77 /100MHz / CP OFDM / 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

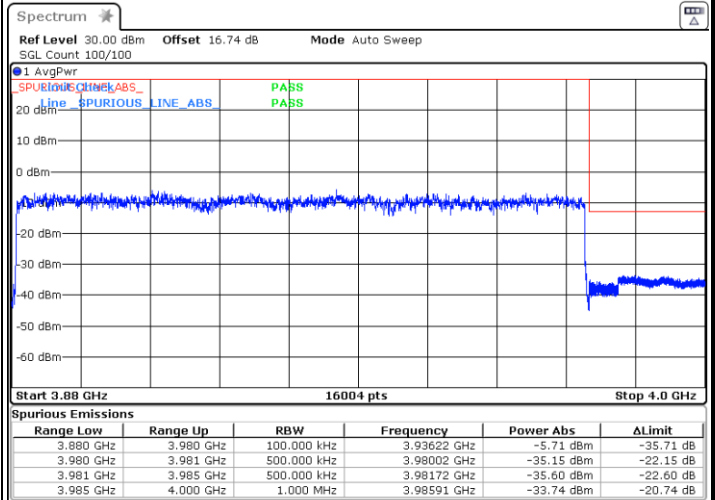
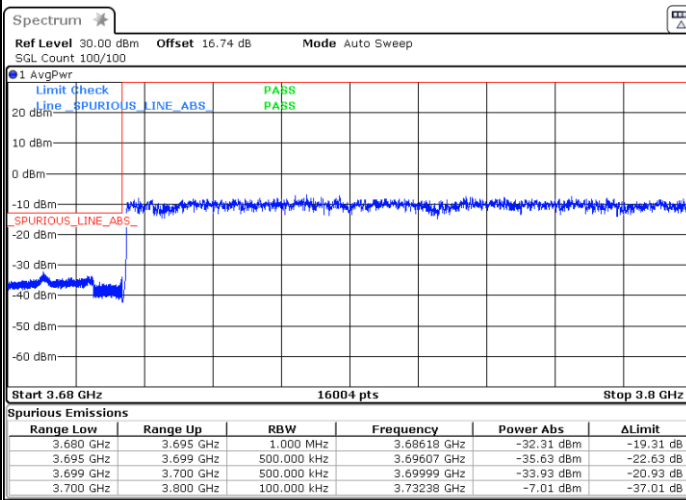


Date: 7.APR.2021 19:58:40

Date: 7.APR.2021 20:02:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7.APR.2021 19:56:46

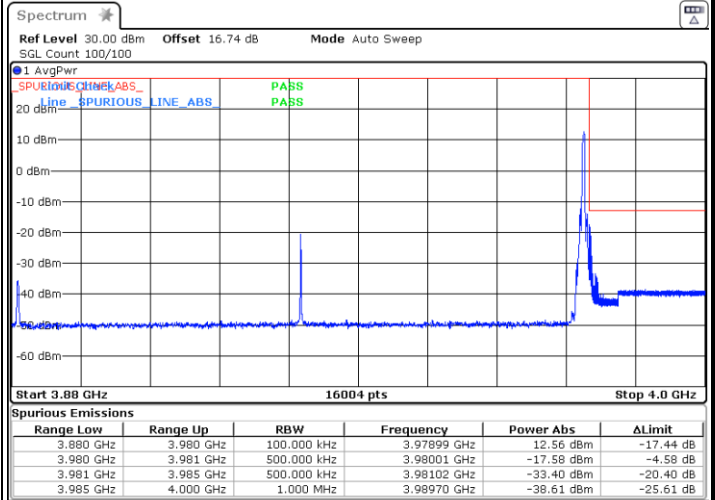
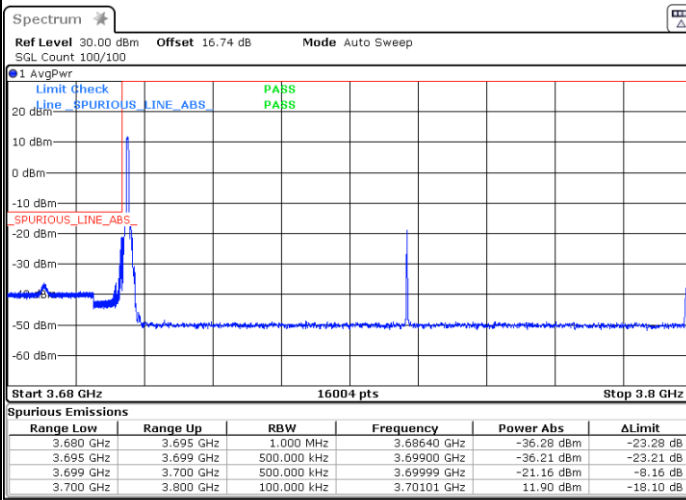
Date: 7.APR.2021 20:00:39



FR1 n77 /100MHz / CP OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

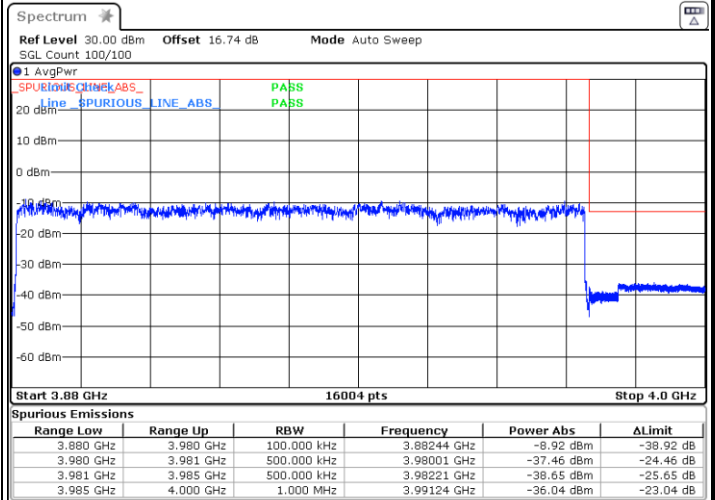
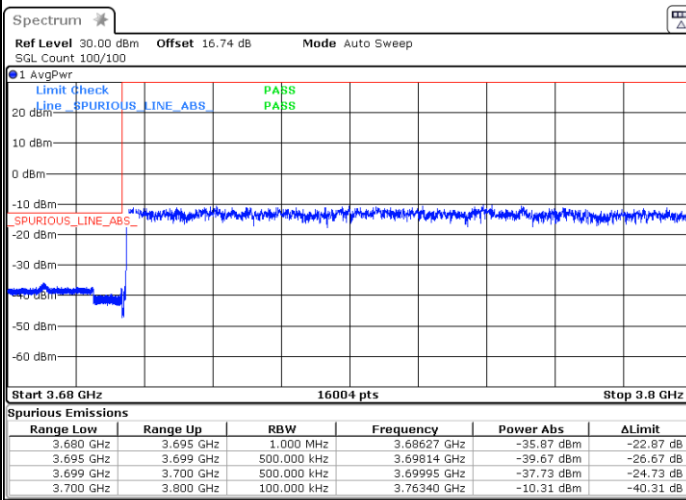


Date: 7.APR.2021 19:59:06

Date: 7.APR.2021 20:03:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7.APR.2021 19:57:06

Date: 7.APR.2021 20:01:01

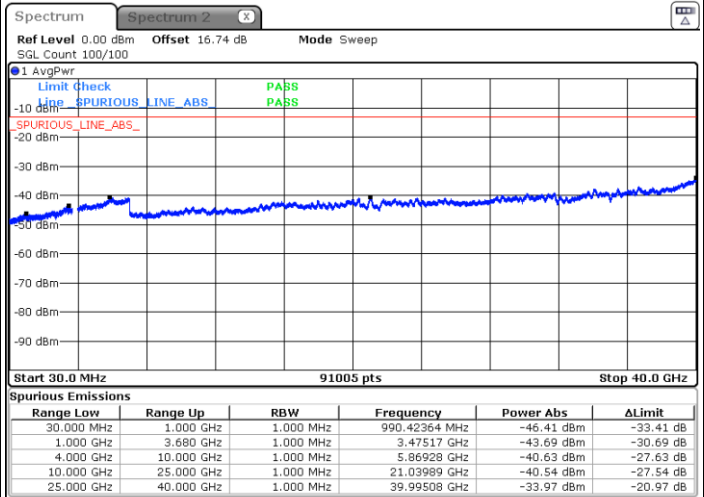
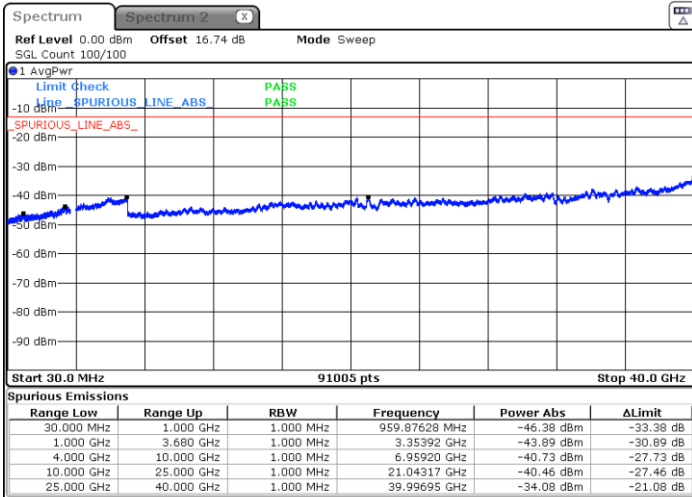


# Conducted Spurious Emission

FR1 n77 / 20MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

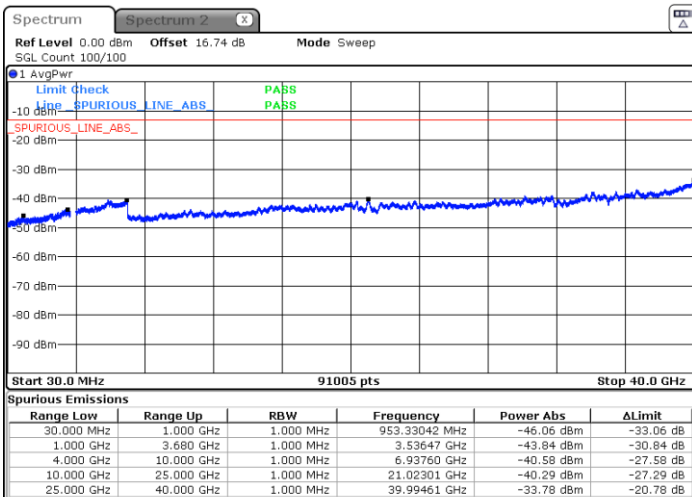
Middle Channel / 1RB0



Date: 7.APR.2021 20:26:21

Date: 7.APR.2021 20:27:58

Highest Channel / 1RB0



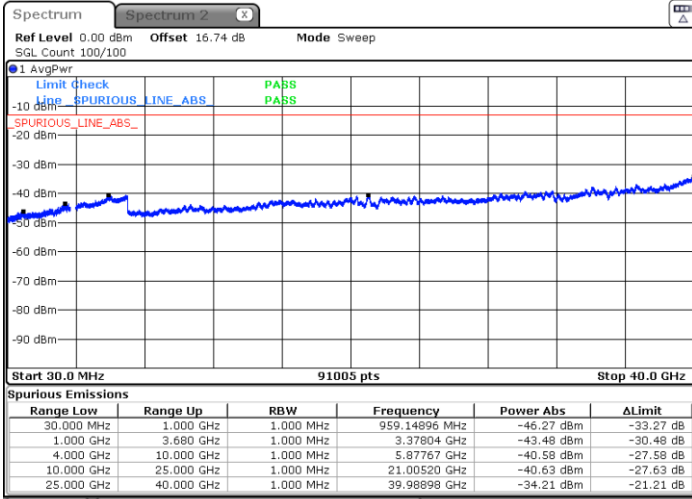
Date: 7.APR.2021 20:29:22



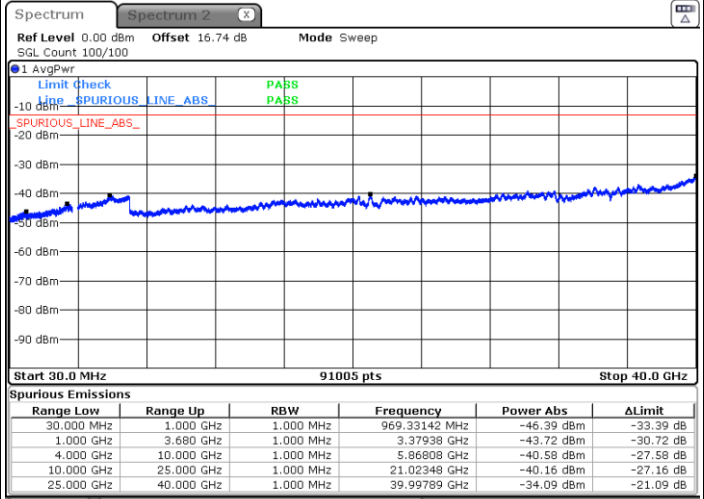
FR1 n77 / 30MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

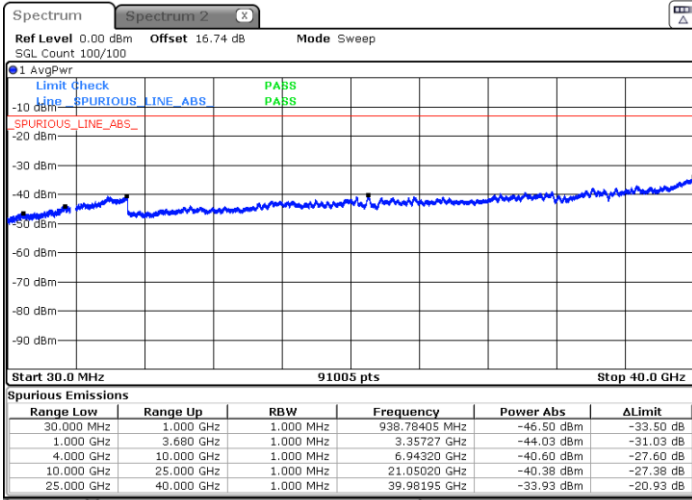


Date: 7.APR.2021 20:17:33



Date: 7.APR.2021 20:18:52

Highest Channel / 1RB0



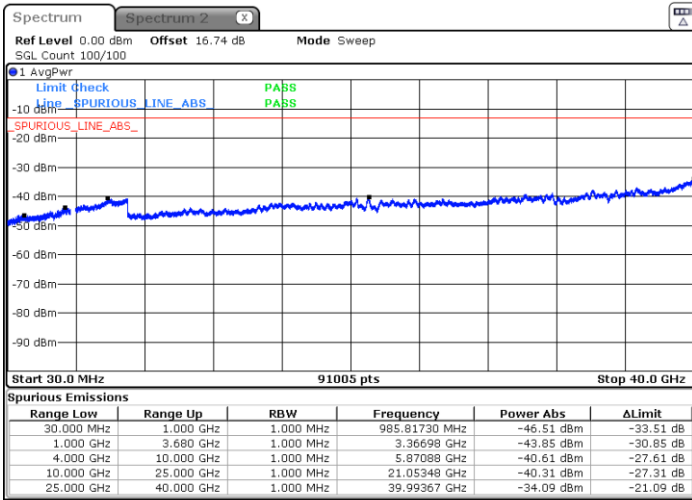
Date: 7.APR.2021 20:22:22



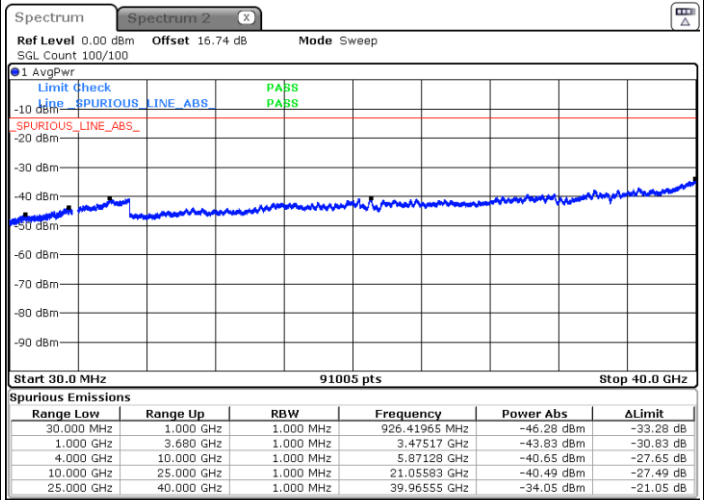
FR1 n77 / 40MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

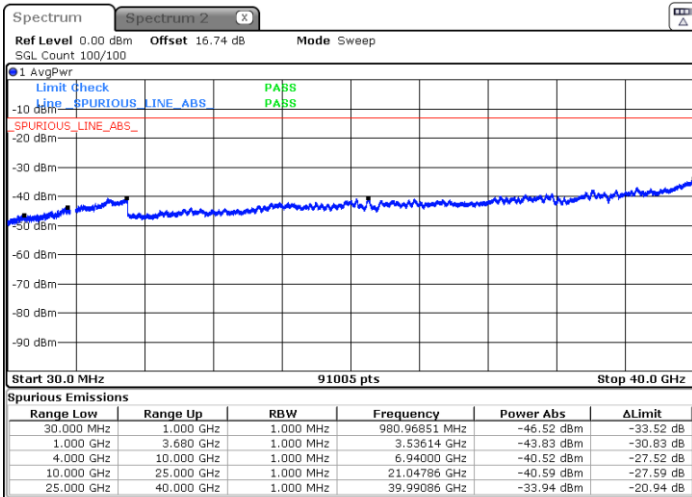


Date: 7.APR.2021 20:30:36



Date: 7.APR.2021 20:33:19

Highest Channel / 1RB0



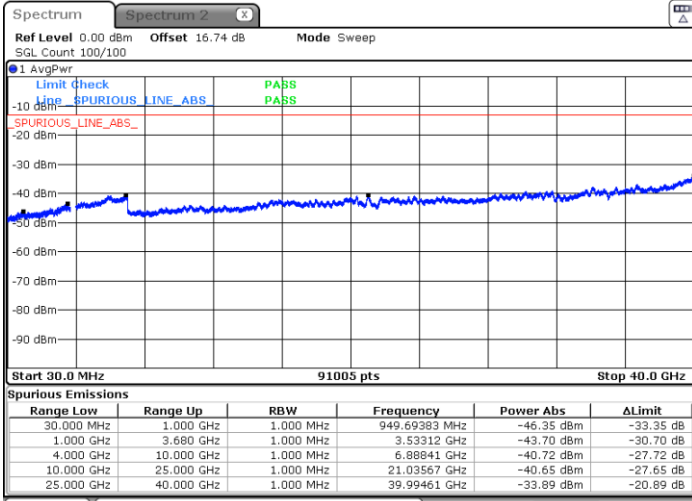
Date: 7.APR.2021 20:34:31



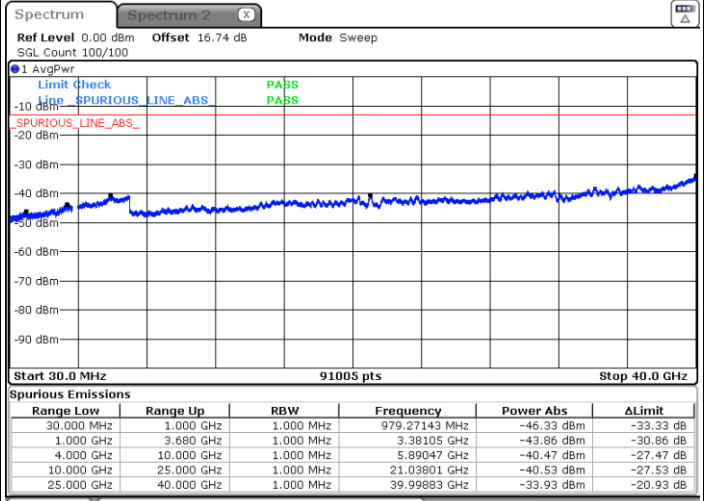
FR1 n77 / 50MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

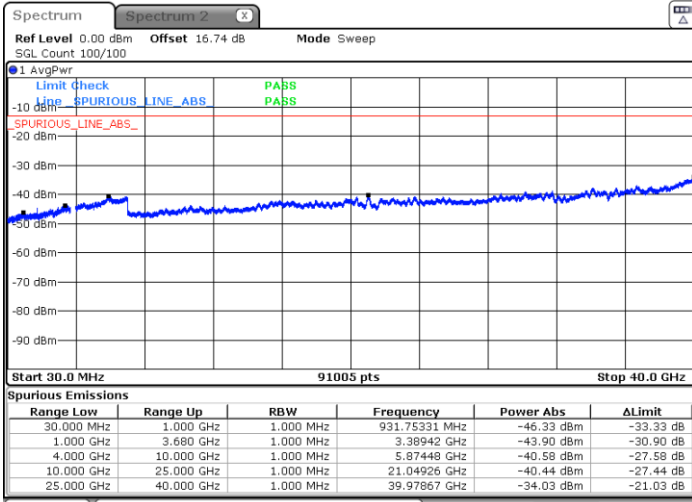


Date: 7.APR.2021 20:35:48



Date: 7.APR.2021 20:36:55

Highest Channel / 1RB0



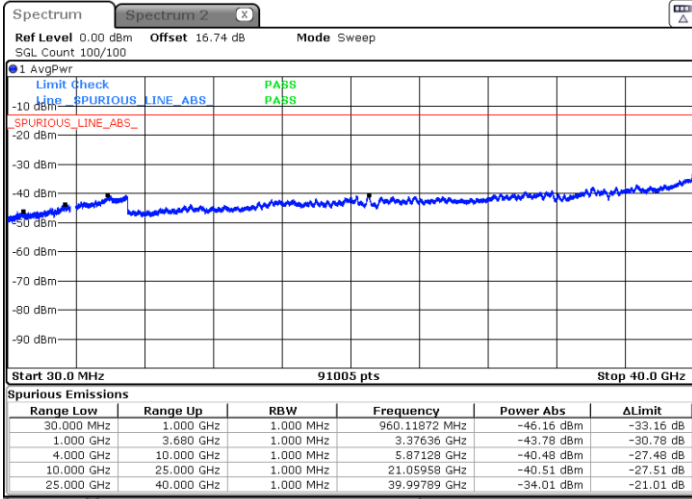
Date: 7.APR.2021 20:38:08



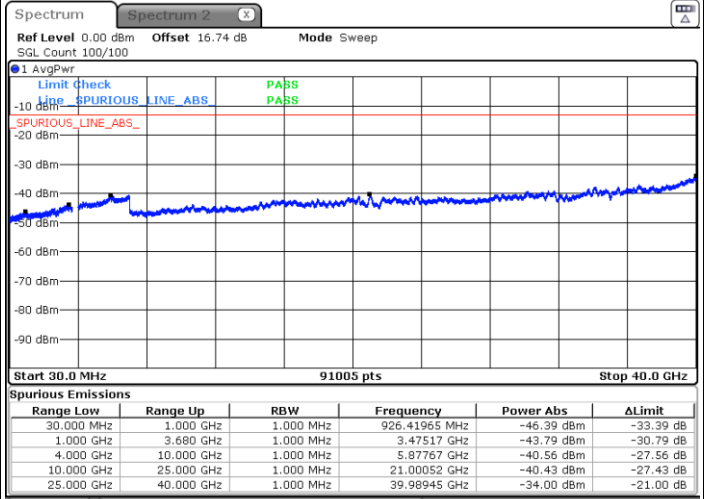
FR1 n77 / 60MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

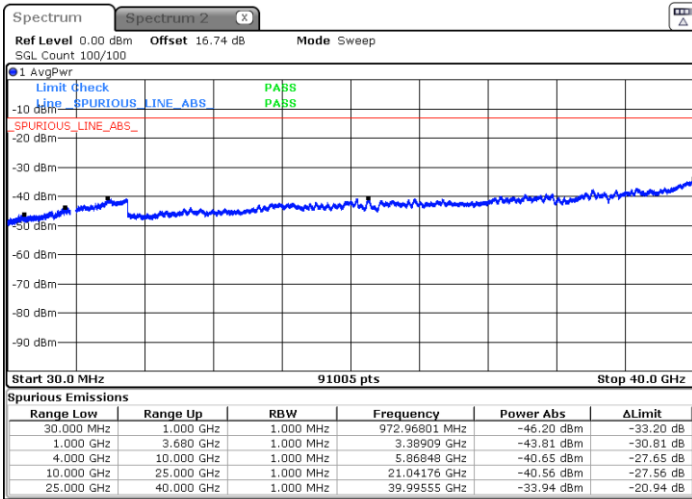


Date: 7.APR.2021 20:40:19



Date: 7.APR.2021 20:41:25

Highest Channel / 1RB0



Date: 7.APR.2021 20:42:33

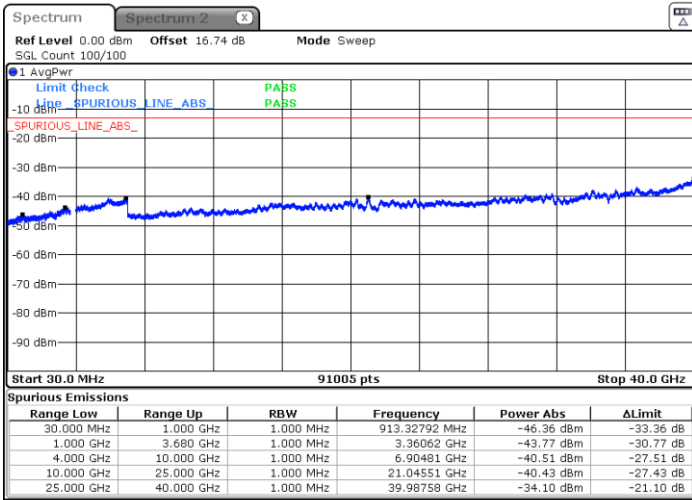




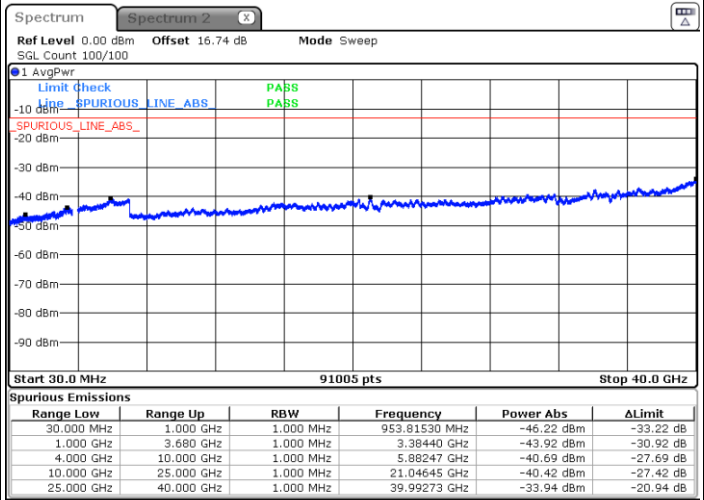
FR1 n77 / 70MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

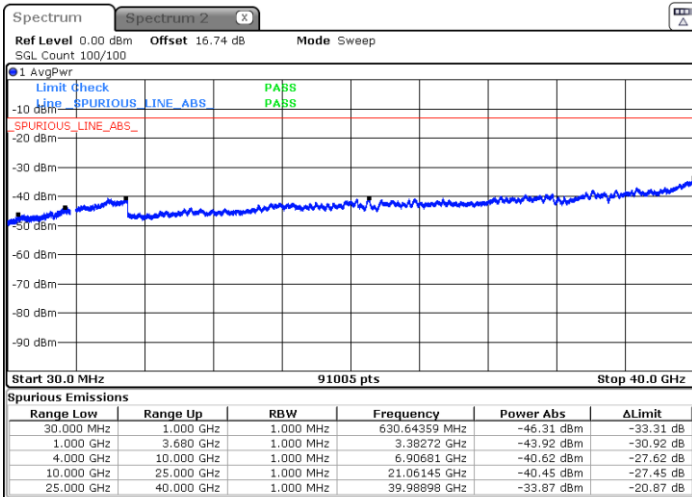


Date: 7.APR.2021 20:44:58



Date: 7.APR.2021 20:48:25

Highest Channel / 1RB0



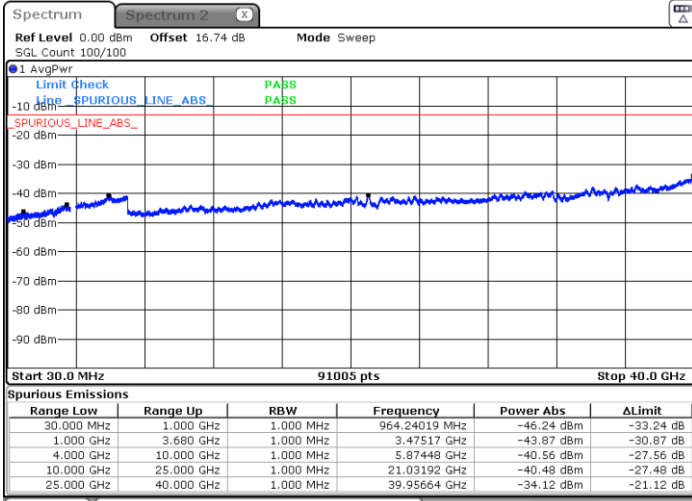
Date: 7.APR.2021 20:49:36



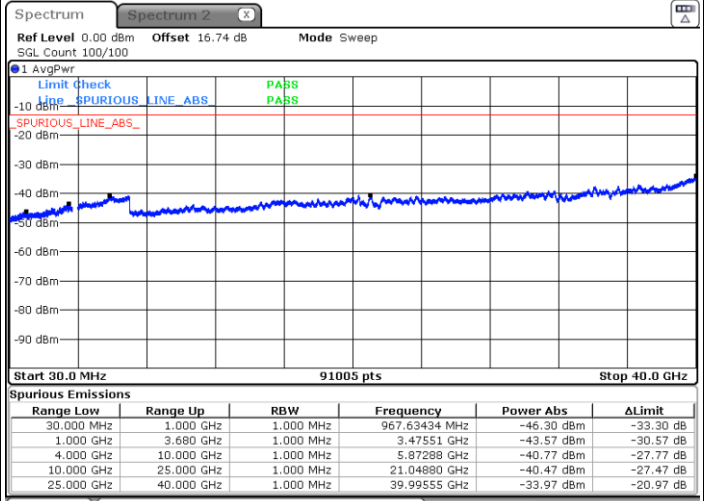
FR1 n77 / 80MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

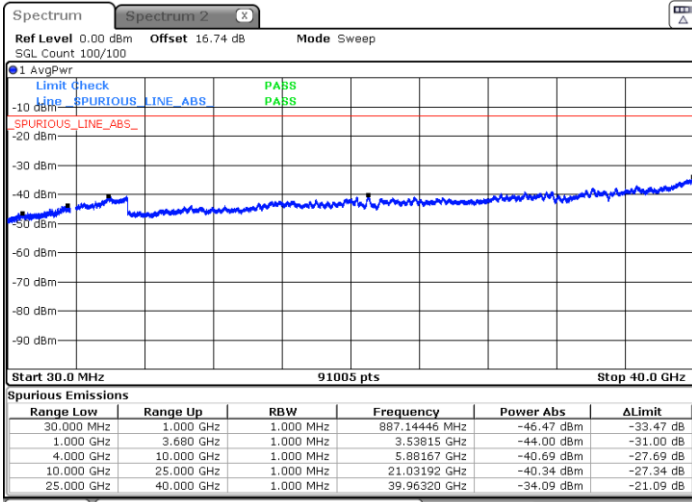


Date: 7.APR.2021 20:59:33



Date: 7.APR.2021 21:00:41

Highest Channel / 1RB0



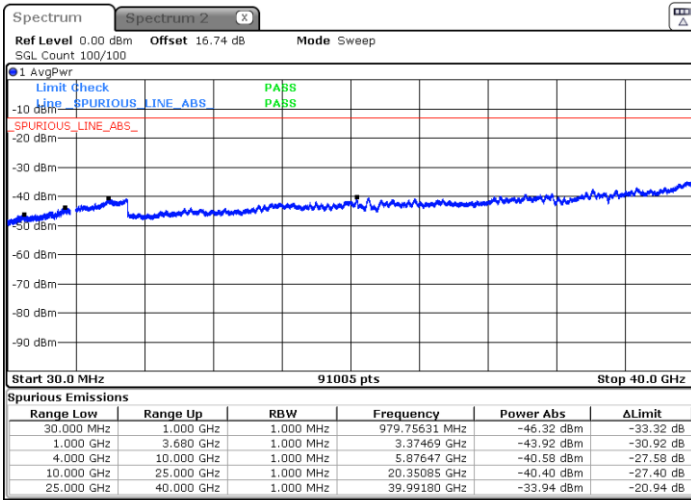
Date: 7.APR.2021 21:01:59



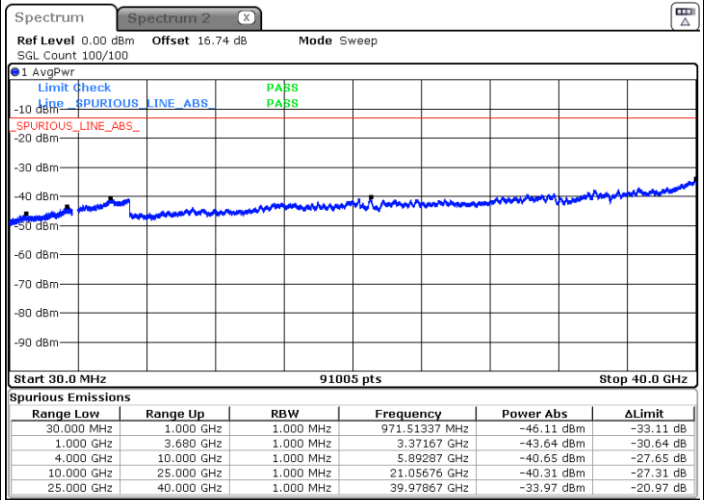
FR1 n77 / 90MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

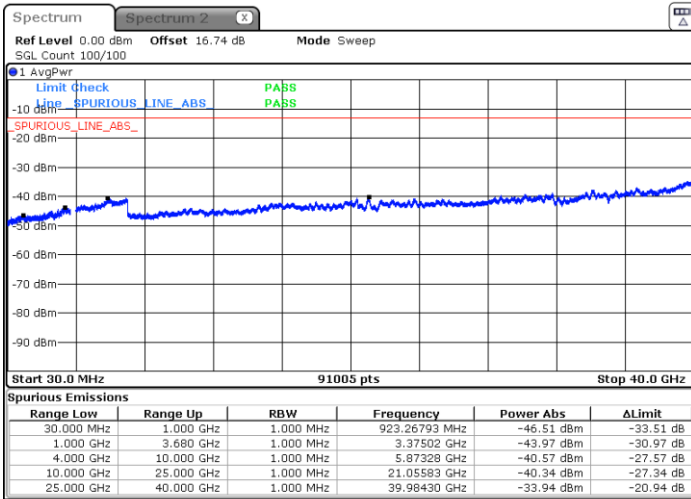


Date: 7.APR.2021 20:50:47



Date: 7.APR.2021 20:52:01

Highest Channel / 1RB0



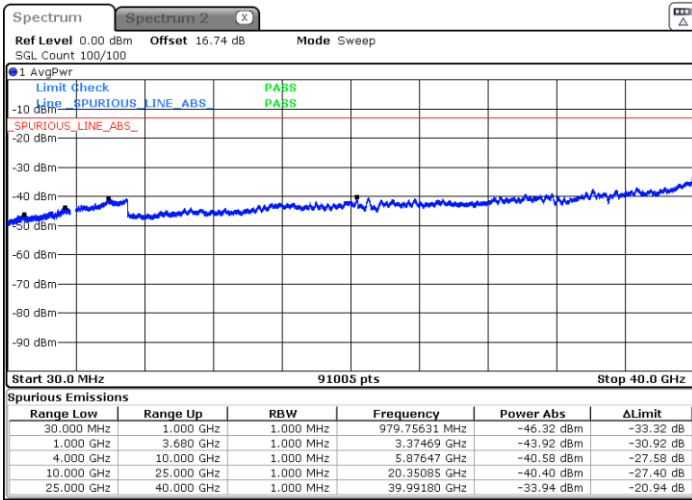
Date: 7.APR.2021 20:53:12



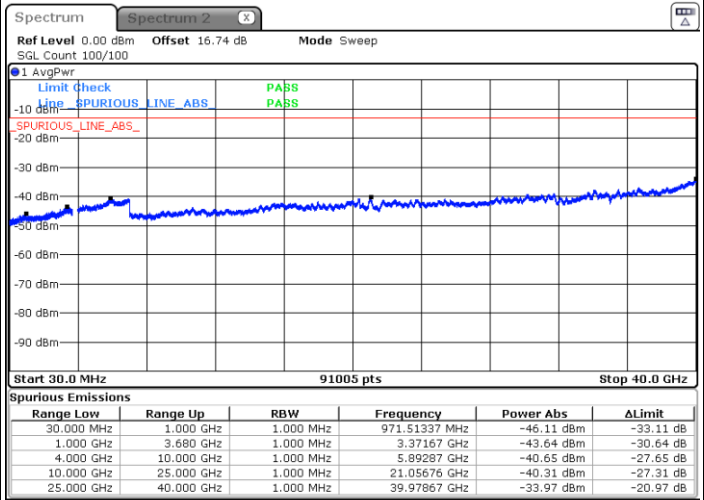
FR1 n77 / 100MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

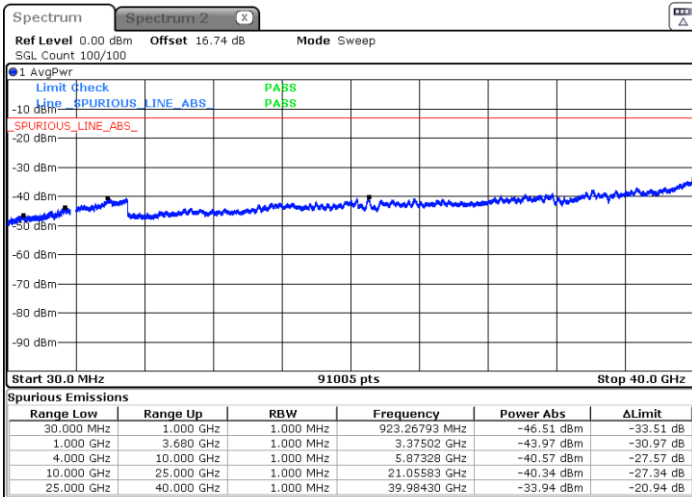


Date: 7.APR.2021 20:50:47



Date: 7.APR.2021 20:52:01

Highest Channel / 1RB0



Date: 7.APR.2021 20:53:12



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 100MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.30 V.
2. .Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

For Ant.3:

5G NR n7 / NR 20MHz / QPSK DFT-s-OFDM								
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	5052	-60.00	-25	-35.00	-70.21	3.03	13.24	H
	7580	-51.45	-25	-26.45	-60.90	3.56	13.01	H
	10100	-59.65	-25	-34.65	-69.17	3.92	13.44	H
	5052	-60.37	-25	-35.37	-70.58	3.03	13.24	V
	7580	-57.14	-25	-32.14	-66.59	3.56	13.01	V
	10100	-59.99	-25	-34.99	-69.51	3.92	13.44	V

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

5G NR n38 / NR 40MHz / QPSK DFT-s-OFDM								
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	5172	-59.88	-25	-34.88	-70.09	3.03	13.24	H
	7760	-50.47	-25	-25.47	-59.92	3.56	13.01	H
	10340	-58.03	-25	-33.03	-67.55	3.92	13.44	H
	5172	-63.31	-25	-38.31	-73.52	3.03	13.24	V
	7760	-56.80	-25	-31.80	-66.25	3.56	13.01	V
	10340	-58.12	-25	-33.12	-67.64	3.92	13.44	V

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

For Ant.1:

5G NR n41 / NR 100MHz / QPSK DFT-s-OFDM								
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	5088	-57.21	-25	-32.21	-67.42	3.03	13.24	H
	7632	-50.93	-25	-25.93	-60.38	3.56	13.01	H
	10190	-59.02	-25	-34.02	-68.54	3.92	13.44	H
	5088	-59.31	-25	-34.31	-69.52	3.03	13.24	V
	7632	-46.61	-25	-21.61	-56.06	3.56	13.01	V
	10190	-59.05	-25	-34.05	-68.57	3.92	13.44	V

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



For Ant.1+3:

5G NR n41_UL MIMO / NR 100MHz / QPSK CP OFDM								
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	5088	-57.21	-25	-32.21	-67.42	3.03	13.24	H
	7632	-50.93	-25	-25.93	-60.38	3.56	13.01	H
	10190	-58.69	-25	-33.69	-68.21	3.92	13.44	H
	5088	-59.13	-25	-34.13	-69.34	3.03	13.24	V
	7632	-46.47	-25	-21.47	-55.92	3.56	13.01	V
	10190	-58.79	-25	-33.79	-68.31	3.92	13.44	V

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

For Ant.4:

5G NR n77 / NR 100MHz / QPSK DFT-s-OFDM								
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)
Lowest	7590	-60.82	-13	-47.82	-71.30	2.76	13.24	H
	11388	-57.09	-13	-44.09	-66.68	3.42	13.01	H
	15180	-57.20	-13	-44.20	-66.81	3.83	13.44	H
	7590	-61.16	-13	-48.16	-71.60	2.80	13.24	V
	11388	-57.99	-13	-44.99	-67.54	3.46	13.01	V
	15180	-57.03	-13	-44.03	-66.59	3.88	13.44	V

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

For Ant.4+2:

5G NR n77_UL MIMO / NR 100MHz / QPSK CP OFDM								
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	-61.17	-13	-48.17	-71.65	2.76	13.24	H
	11376	-49.05	-13	-36.05	-58.64	3.42	13.01	H
	15180	-57.08	-13	-44.08	-66.69	3.83	13.44	H
	7590	-61.14	-13	-48.14	-71.58	2.80	13.24	V
	11376	-52.16	-13	-39.16	-61.71	3.46	13.01	V
	15180	-57.20	-13	-44.20	-66.76	3.88	13.44	V

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



For Ant.0+1:

EN-DC_2A_n41A / LTE 20MHz + NR 100MHz / QPSK DFT-s-OFDM								
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	5088	-55.59	-25	-30.59	-65.80	3.03	13.24	H
	7632	-46.76	-25	-21.76	-56.21	3.56	13.01	H
	10190	-60.44	-25	-35.44	-69.96	3.92	13.44	H
	5088	-55.29	-25	-30.29	-65.50	3.03	13.24	V
	7632	-41.97	-25	-16.97	-51.42	3.56	13.01	V
	10190	-60.14	-25	-35.14	-69.66	3.92	13.44	V

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

EN-DC_25A_n41A / LTE 20MHz + NR 100MHz / QPSK DFT-s-OFDM								
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	5088	-57.14	-25	-32.14	-67.35	3.03	13.24	H
	7632	-47.41	-25	-22.41	-56.86	3.56	13.01	H
	10190	-59.95	-25	-34.95	-69.47	3.92	13.44	H
	5088	-55.62	-25	-30.62	-65.83	3.03	13.24	V
	7632	-42.30	-25	-17.30	-51.75	3.56	13.01	V
	10190	-59.53	-25	-34.53	-69.05	3.92	13.44	V

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

EN-DC_66A_n41A / LTE 20MHz + NR 100MHz / QPSK DFT-s-OFDM								
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)
Lowest	5088	-55.75	-25	-30.75	-65.96	3.03	13.24	H
	7632	-54.81	-25	-29.81	-64.26	3.56	13.01	H
	10190	-58.77	-25	-33.77	-68.29	3.92	13.44	H
	5088	-60.64	-25	-35.64	-70.85	3.03	13.24	V
	7632	-56.67	-25	-31.67	-66.12	3.56	13.01	V
	10190	-58.70	-25	-33.70	-68.22	3.92	13.44	V

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