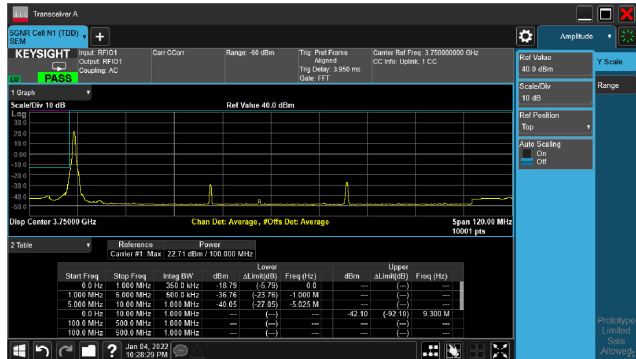
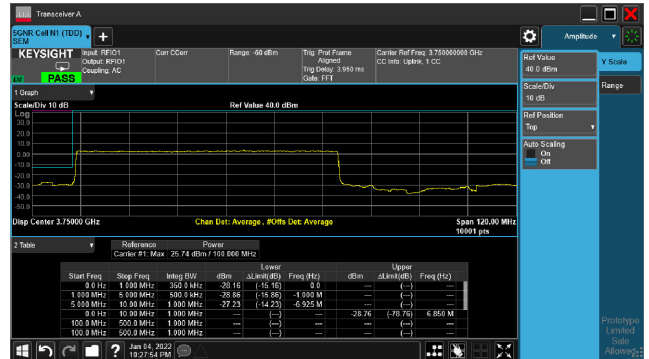


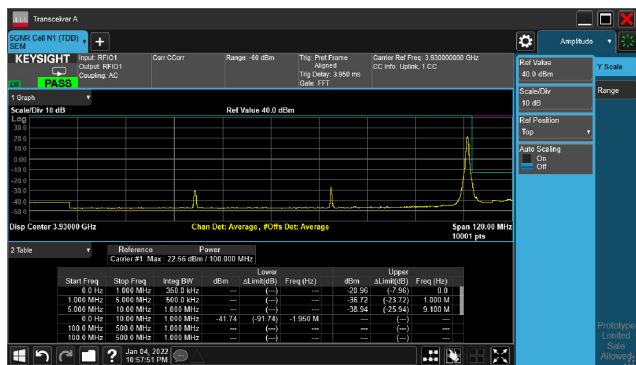
5G NR n77_CH649000_70M_pi/2 BPSK_1RB0



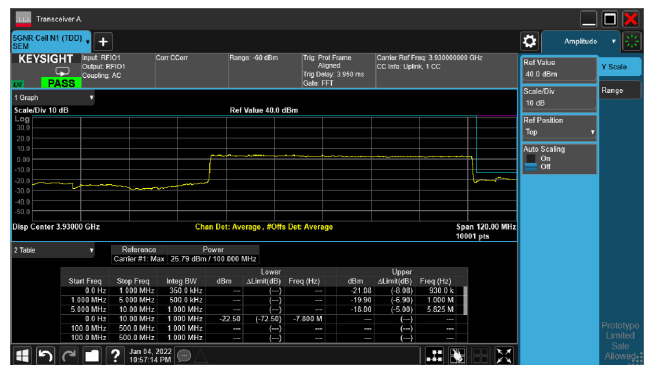
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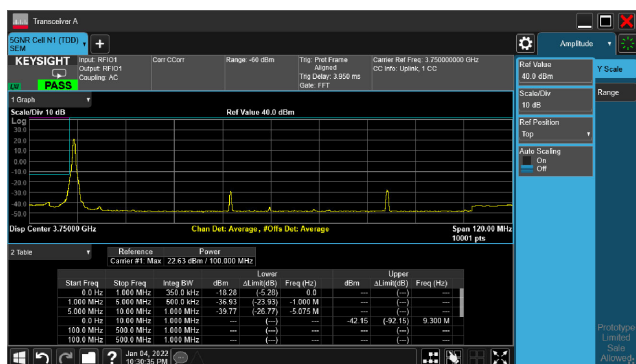
5G NR n77_CH663000_70M_pi/2 BPSK_1RB188



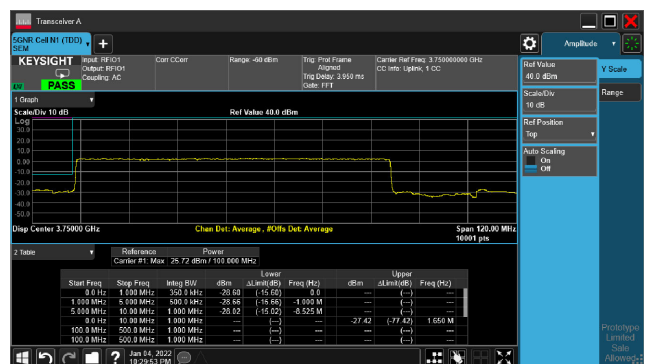
5G NR n77_CH663000_70M_pi/2 BPSK_180RB9



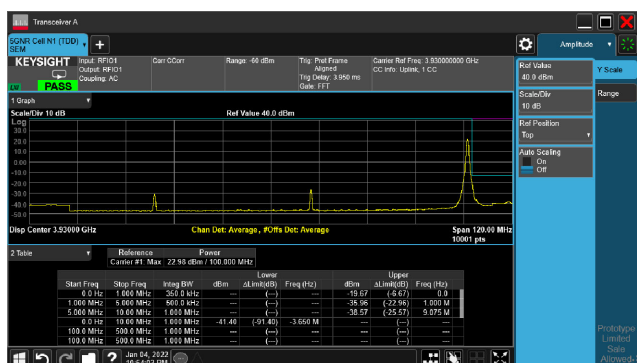
5G NR n77_CH649334_80M_pi/2 BPSK_1RB0



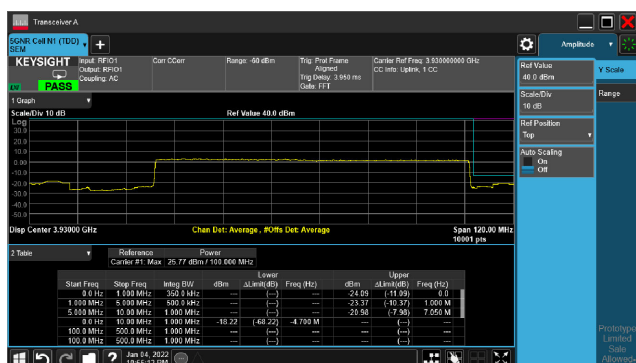
5G NR n77_CH649334_80M_pi/2 BPSK_216RB0



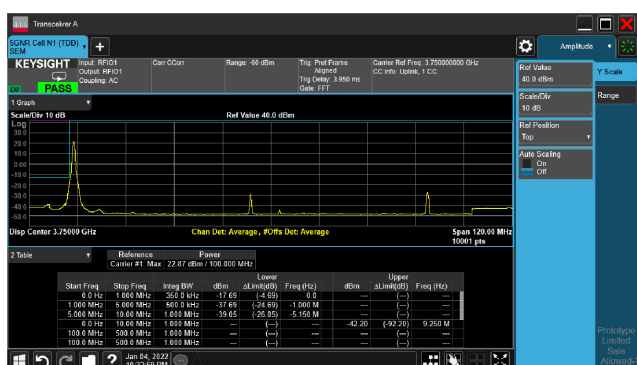
5G NR n77 CH662666 80M pi/2 BPSK 1RB216



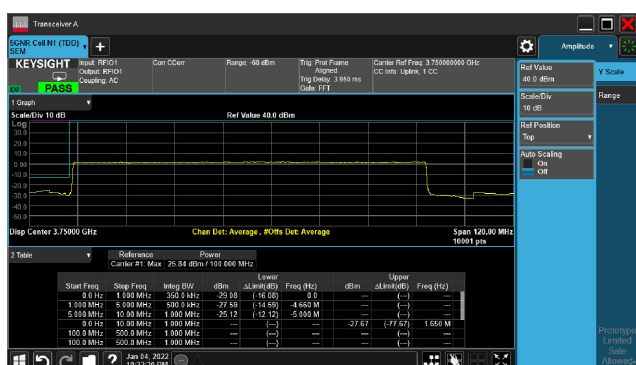
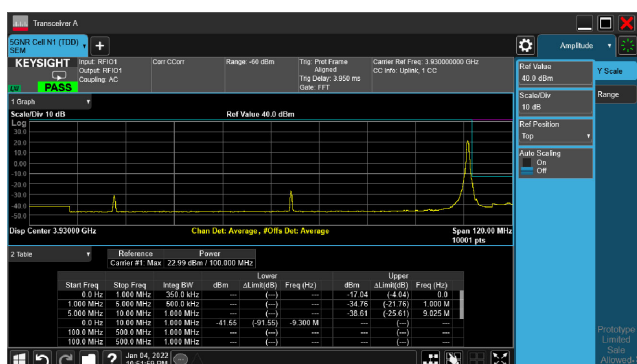
5G NR_n77 CH662666 80M pi/2 BPSK 216RB1



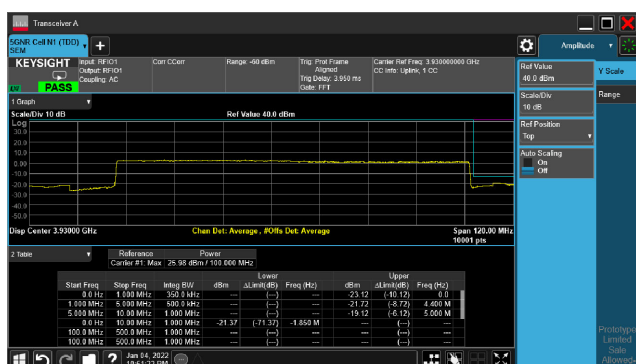
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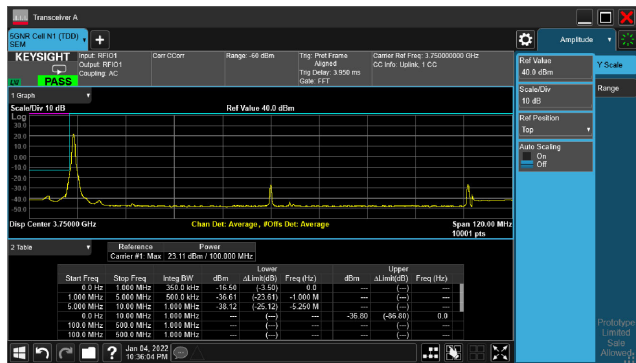
5G NR_n77 CH649668 90M pi/2 BPSK 243RB0

5G NR_{n77} CH662332 90M pi/2 BPSK 1RB244

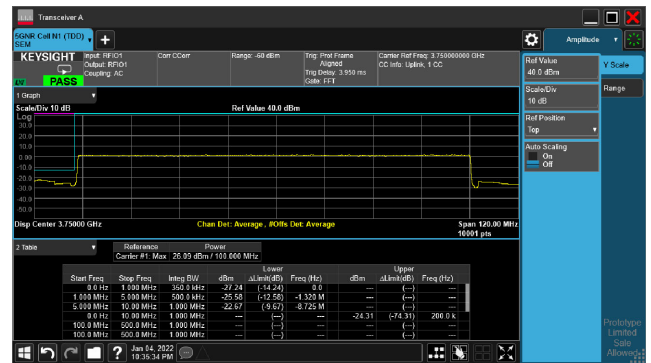
5G NR_n77 CH662332 90M pi/2 BPSK 243RB2



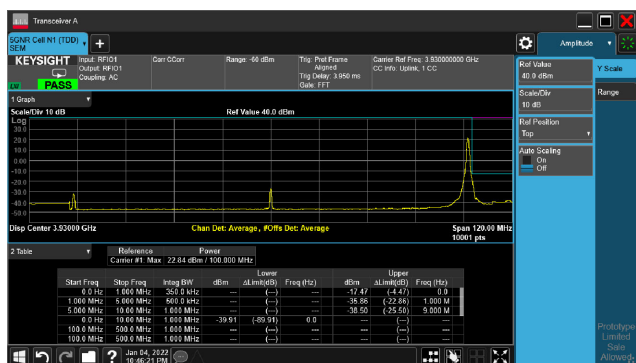
5G NR n77_CH650000_100M_pi/2 BPSK_1RB0



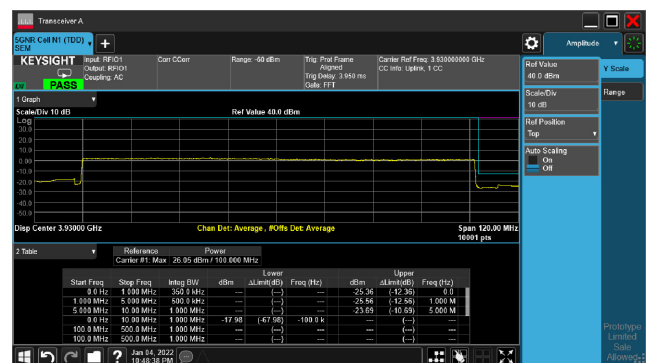
5G NR n77CH650000_100M_pi/2 BPSK_270RB0



5G NR n77_CH662000_100M_pi/2 BPSK_1RB272

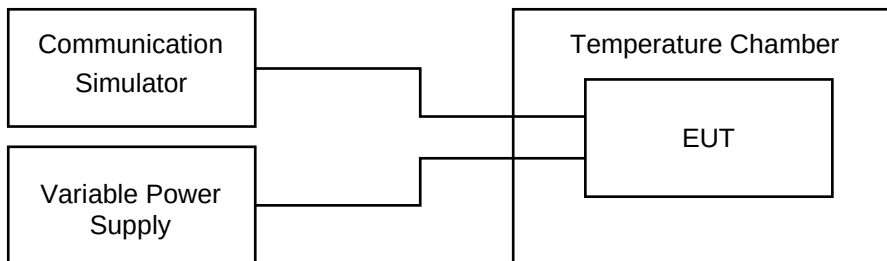


5G NR n77_CH662000_100M_pi/2 BPSK_270RB3



8. Frequency Stability

8.1. Test Setup



8.2. Test Procedure

Frequency Stability under Temperature Variations:

The EUT under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a communication simulator. The EUT was placed inside the temperature chamber. Set the EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC or DC power supply to power the EUT and set the voltage to rated voltage. Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

8.3. Test Methodology and Reference Procedures

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI C63.26-2015

KDB 662911 D01 Multiple Transmitter Output v02r01

8.4. Test Result of Frequency Stability

Mode 1: 5G NR n2

5G NR n2 / 5 MHz / 1852.2 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.29	0.0012
3.80	2.73	0.0015
3.30	2.36	0.0013

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	3.06	0.0017
-20	1.80	0.0010
-10	1.87	0.0010
0	2.29	0.0012
10	1.09	0.0006
20	1.80	0.0010
30	1.97	0.0011
40	1.63	0.0009
50	2.13	0.0011
55	2.08	0.0011

5G NR n2 / 5 MHz / 1907.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	0.76	0.0004
3.80	1.43	0.0007
3.30	1.26	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.18	0.0006
-20	0.32	0.0002
-10	1.43	0.0007
0	0.89	0.0005
10	0.49	0.0003
20	0.98	0.0005
30	0.59	0.0003
40	0.46	0.0002
50	0.90	0.0005
55	1.11	0.0006

5G NR n2 / 10 MHz / 1855 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.94	0.0010
3.80	2.11	0.0011
3.30	1.55	0.0008

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.93	0.0005
-20	1.35	0.0007
-10	1.36	0.0007
0	1.95	0.0011
10	1.68	0.0009
20	1.41	0.0008
30	1.70	0.0009
40	1.81	0.0010
50	1.07	0.0006
55	1.11	0.0006

5G NR n2 / 10 MHz / 1905 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.95	0.0010
3.80	1.86	0.0010
3.30	1.39	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.18	0.0006
-20	0.88	0.0005
-10	1.07	0.0006
0	2.29	0.0012
10	1.71	0.0009
20	0.94	0.0005
30	0.81	0.0004
40	1.09	0.0006
50	1.91	0.0010
55	1.40	0.0007

5G NR n2 / 15 MHz / 1857.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.58	0.0014
3.80	2.63	0.0014
3.30	1.89	0.0010

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.16	0.0012
-20	3.03	0.0016
-10	1.97	0.0011
0	2.79	0.0015
10	2.57	0.0014
20	2.00	0.0011
30	2.22	0.0012
40	2.95	0.0016
50	2.68	0.0014
55	2.95	0.0016

5G NR n2 / 15 MHz / 1902.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.59	0.0014
3.80	2.47	0.0013
3.30	2.37	0.0012

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.03	0.0011
-20	1.15	0.0006
-10	2.52	0.0013
0	2.53	0.0013
10	1.80	0.0009
20	2.64	0.0014
30	2.32	0.0012
40	1.66	0.0009
50	1.47	0.0008
55	2.16	0.0011

5G NR n2 / 20 MHz / 1860 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.21	0.0012
3.80	2.77	0.0015
3.30	1.85	0.0010

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.80	0.0010
-20	2.31	0.0012
-10	2.85	0.0015
0	1.85	0.0010
10	1.30	0.0007
20	1.70	0.0009
30	1.95	0.0010
40	2.25	0.0012
50	2.37	0.0013
55	1.69	0.0009

5G NR n2 / 20 MHz / 1900 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.08	0.0011
3.80	1.96	0.0010
3.30	1.38	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.43	0.0002
-20	1.72	0.0009
-10	0.69	0.0004
0	2.18	0.0011
10	1.09	0.0006
20	1.67	0.0009
30	0.73	0.0004
40	1.70	0.0009
50	1.42	0.0007
55	0.77	0.0004

Mode 2: 5G NR n5**5G NR n5 / 5 MHz / 826.5 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.68	0.0032
3.80	3.11	0.0038
3.30	2.24	0.0027

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	3.12	0.0038
-20	2.04	0.0025
-10	2.22	0.0027
0	2.87	0.0035
10	1.71	0.0021
20	1.84	0.0022
30	2.42	0.0029
40	2.80	0.0034
50	2.69	0.0033
55	2.42	0.0029

5G NR n5 / 5 MHz / 846.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.14	0.0025
3.80	1.94	0.0023
3.30	0.29	0.0003

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.31	0.0015
-20	1.44	0.0017
-10	1.32	0.0016
0	1.45	0.0017
10	1.94	0.0023
20	1.92	0.0023
30	1.50	0.0018
40	0.75	0.0009
50	1.04	0.0012
55	1.37	0.0016

5G NR n5 / 10 MHz / 829 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.70	0.0033
3.80	2.73	0.0033
3.30	3.14	0.0038

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.67	0.0032
-20	1.98	0.0024
-10	1.96	0.0024
0	2.24	0.0027
10	1.82	0.0022
20	1.90	0.0023
30	1.68	0.0020
40	1.40	0.0017
50	2.65	0.0032
55	2.04	0.0025

5G NR n5 / 10 MHz / 844 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	3.05	0.0036
3.80	3.21	0.0038
3.30	2.24	0.0027

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	3.44	0.0041
-20	1.43	0.0017
-10	2.57	0.0030
0	2.43	0.0029
10	2.40	0.0028
20	2.59	0.0031
30	2.83	0.0034
40	3.06	0.0036
50	3.11	0.0037
55	2.63	0.0031

5G NR n5 / 15 MHz / 831.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	3.26	0.0039
3.80	3.14	0.0038
3.30	2.25	0.0027

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.70	0.0032
-20	2.34	0.0028
-10	1.87	0.0022
0	2.51	0.0030
10	2.46	0.0030
20	1.99	0.0024
30	2.08	0.0025
40	1.53	0.0018
50	2.65	0.0032
55	2.60	0.0031

5G NR n5 / 15 MHz / 841.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.87	0.0034
3.80	3.39	0.0040
3.30	2.10	0.0025

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.78	0.0033
-20	3.33	0.0040
-10	3.03	0.0036
0	2.51	0.0030
10	3.15	0.0037
20	3.61	0.0043
30	3.13	0.0037
40	3.12	0.0037
50	2.34	0.0028
55	3.39	0.0040

5G NR n5 / 20 MHz / 834 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.30	0.0028
3.80	3.33	0.0040
3.30	2.92	0.0035

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.64	0.0032
-20	3.25	0.0039
-10	2.47	0.0030
0	2.58	0.0031
10	2.83	0.0034
20	3.79	0.0045
30	3.72	0.0045
40	3.81	0.0046
50	2.46	0.0029
55	1.89	0.0023

5G NR n5 / 20 MHz / 839 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.47	0.0029
3.80	2.87	0.0034
3.30	2.54	0.0030

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.57	0.0031
-20	1.52	0.0018
-10	1.70	0.0020
0	1.60	0.0019
10	2.26	0.0027
20	2.25	0.0027
30	2.82	0.0034
40	1.75	0.0021
50	3.42	0.0041
55	1.12	0.0013

Mode 3: 5G NR n12**5G NR n12 / 5 MHz / 701.5 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	0.95	0.0014
3.80	2.21	0.0032
3.30	2.56	0.0036

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.40	0.0020
-20	2.02	0.0029
-10	2.20	0.0031
0	1.17	0.0017
10	2.66	0.0038
20	1.63	0.0023
30	1.13	0.0016
40	2.54	0.0036
50	1.26	0.0018
55	1.06	0.0015

5G NR n12 / 5 MHz / 713.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.03	0.0028
3.80	2.49	0.0035
3.30	1.89	0.0026

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.78	0.0025
-20	2.76	0.0039
-10	1.44	0.0020
0	1.67	0.0023
10	2.14	0.0030
20	2.12	0.0030
30	1.92	0.0027
40	2.74	0.0038
50	1.39	0.0019
55	2.07	0.0029

5G NR n12 / 10 MHz / 704 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.21	0.0017
3.80	2.08	0.0030
3.30	1.84	0.0026

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.37	0.0019
-20	2.06	0.0029
-10	0.86	0.0012
0	1.74	0.0025
10	2.01	0.0029
20	1.46	0.0021
30	0.98	0.0014
40	2.66	0.0038
50	2.06	0.0029
55	1.62	0.0023

5G NR n12 / 10 MHz / 711 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.32	0.0033
3.80	2.12	0.0030
3.30	1.44	0.0020

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.34	0.0019
-20	1.41	0.0020
-10	1.96	0.0028
0	2.61	0.0037
10	1.51	0.0021
20	1.82	0.0026
30	2.18	0.0031
40	1.72	0.0024
50	1.40	0.0020
55	1.16	0.0016

5G NR n12 / 15 MHz / 706.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	0.94	0.0013
3.80	1.59	0.0023
3.30	0.42	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.35	0.0019
-20	0.47	0.0007
-10	1.22	0.0017
0	1.36	0.0019
10	1.17	0.0017
20	0.49	0.0007
30	1.64	0.0023
40	1.20	0.0017
50	0.84	0.0012
55	2.33	0.0033

5G NR n12 / 15 MHz / 708.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.13	0.0030
3.80	2.78	0.0039
3.30	2.41	0.0034

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.92	0.0027
-20	1.94	0.0027
-10	2.56	0.0036
0	2.04	0.0029
10	1.49	0.0021
20	2.24	0.0032
30	1.47	0.0021
40	2.46	0.0035
50	1.95	0.0028
55	2.32	0.0033

Mode 4: 5G NR n30**5G NR n30 / 5 MHz / 2307.5 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.58	0.0007
3.80	1.76	0.0008
3.30	2.17	0.0009

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.28	0.0006
-20	1.58	0.0007
-10	1.07	0.0005
0	1.48	0.0006
10	1.80	0.0008
20	2.06	0.0009
30	1.87	0.0008
40	1.36	0.0006
50	0.51	0.0002
55	1.32	0.0006

5G NR n30 / 5 MHz / 2312.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.03	0.0004
3.80	1.86	0.0008
3.30	1.37	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.39	0.0006
-20	0.54	0.0002
-10	0.97	0.0004
0	1.35	0.0006
10	1.01	0.0004
20	2.10	0.0009
30	1.24	0.0005
40	1.99	0.0009
50	0.81	0.0004
55	1.39	0.0006

5G NR n30 / 10 MHz / 2310 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.79	0.0012
3.80	3.06	0.0013
3.30	3.00	0.0013

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.53	0.0007
-20	3.35	0.0015
-10	2.38	0.0010
0	3.23	0.0014
10	2.06	0.0009
20	2.47	0.0011
30	3.89	0.0017
40	2.60	0.0011
50	2.94	0.0013
55	2.57	0.0011

Mode 5: 5G NR n66**5G NR n66 / 5 MHz / 1712.5 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	3.03	0.0018
3.80	3.51	0.0020
3.30	3.69	0.0022

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.35	0.0014
-20	3.60	0.0021
-10	3.38	0.0020
0	2.41	0.0014
10	2.64	0.0015
20	3.37	0.0020
30	2.60	0.0015
40	3.45	0.0020
50	1.98	0.0012
55	2.82	0.0016

5G NR n66 / 5 MHz / 1777.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	3.26	0.0018
3.80	4.24	0.0024
3.30	4.08	0.0023

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	4.05	0.0023
-20	3.46	0.0019
-10	3.02	0.0017
0	3.36	0.0019
10	4.41	0.0025
20	3.57	0.0020
30	4.22	0.0024
40	3.78	0.0021
50	4.55	0.0026
55	3.09	0.0017

5G NR n66 / 10 MHz / 1715 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.55	0.0009
3.80	1.99	0.0012
3.30	1.33	0.0008

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.17	0.0007
-20	1.25	0.0007
-10	1.04	0.0006
0	2.49	0.0015
10	1.59	0.0009
20	1.50	0.0009
30	2.28	0.0013
40	1.77	0.0010
50	1.98	0.0012
55	0.95	0.0006

5G NR n66 / 10 MHz / 1775 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.05	0.0012
3.80	2.22	0.0013
3.30	1.06	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.59	0.0009
-20	2.01	0.0011
-10	1.15	0.0006
0	2.30	0.0013
10	1.59	0.0009
20	2.34	0.0013
30	1.81	0.0010
40	0.83	0.0005
50	1.91	0.0011
55	1.80	0.0010

5G NR n66 / 15 MHz / 1717.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.11	0.0012
3.80	2.35	0.0014
3.30	1.57	0.0009

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.68	0.0016
-20	2.63	0.0015
-10	2.04	0.0012
0	1.90	0.0011
10	0.61	0.0004
20	0.96	0.0006
30	1.53	0.0009
40	1.25	0.0007
50	2.14	0.0012
55	1.70	0.0010

5G NR n66 / 15 MHz / 1772.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	0.09	0.0001
3.80	1.62	0.0009
3.30	1.00	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.96	0.0005
-20	1.33	0.0008
-10	0.45	0.0003
0	1.54	0.0009
10	0.61	0.0003
20	1.75	0.0010
30	1.80	0.0010
40	0.90	0.0005
50	1.51	0.0009
55	-0.16	-0.0001

5G NR n66 / 20 MHz / 1720 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.19	0.0007
3.80	2.17	0.0013
3.30	2.55	0.0015

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.62	0.0009
-20	1.08	0.0006
-10	1.52	0.0009
0	2.84	0.0017
10	1.20	0.0007
20	2.09	0.0012
30	2.57	0.0015
40	1.73	0.0010
50	2.18	0.0013
55	1.13	0.0007

5G NR n66 / 20 MHz / 1770 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.93	0.0017
3.80	2.72	0.0015
3.30	2.38	0.0013

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.51	0.0014
-20	1.52	0.0009
-10	1.96	0.0011
0	2.15	0.0012
10	2.13	0.0012
20	2.38	0.0013
30	1.88	0.0011
40	2.60	0.0015
50	3.09	0.0017
55	2.11	0.0012

5G NR n66 / 30 MHz / 1725 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.82	0.0011
3.80	2.08	0.0012
3.30	2.30	0.0013

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.49	0.0009
-20	1.52	0.0009
-10	1.12	0.0006
0	0.72	0.0004
10	2.36	0.0014
20	1.13	0.0007
30	1.33	0.0008
40	1.70	0.0010
50	0.70	0.0004
55	2.01	0.0012

5G NR n66 / 30 MHz / 1765 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.06	0.0006
3.80	1.67	0.0009
3.30	1.61	0.0009

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.62	0.0009
-20	0.71	0.0004
-10	0.73	0.0004
0	0.56	0.0003
10	1.09	0.0006
20	0.71	0.0004
30	1.64	0.0009
40	1.70	0.0010
50	0.53	0.0003
55	1.05	0.0006

5G NR n66 /40 MHz / 1730 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	3.47	0.0020
3.80	3.14	0.0018
3.30	2.67	0.0015

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	3.41	0.0020
-20	2.93	0.0017
-10	3.38	0.0020
0	2.87	0.0017
10	2.25	0.0013
20	3.65	0.0021
30	2.86	0.0017
40	3.06	0.0018
50	1.76	0.0010
55	3.03	0.0018

5G NR n66 / 40 MHz / 1760 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	0.40	0.0002
3.80	1.59	0.0009
3.30	0.88	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.79	0.0010
-20	1.79	0.0010
-10	1.83	0.0010
0	0.94	0.0005
10	1.29	0.0007
20	1.36	0.0008
30	1.70	0.0010
40	0.24	0.0001
50	1.48	0.0008
55	0.57	0.0003

Mode 6: 5G NR n77 (Part 27 3450~3550 MHz)**5G NR n77 / 10 MHz / 3455 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.00	0.0003
3.80	1.87	0.0005
3.30	1.88	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.49	0.0004
-20	0.40	0.0001
-10	1.82	0.0005
0	1.06	0.0003
10	1.93	0.0006
20	1.60	0.0005
30	1.84	0.0005
40	1.66	0.0005
50	1.38	0.0004
55	1.05	0.0003

5G NR n77 / 10 MHz / 3545 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.96	0.0006
3.80	2.24	0.0006
3.30	1.45	0.0004

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.70	0.0002
-20	2.15	0.0006
-10	1.59	0.0004
0	2.58	0.0007
10	1.07	0.0003
20	1.65	0.0005
30	1.32	0.0004
40	2.06	0.0006
50	1.47	0.0004
55	2.61	0.0007

5G NR n77 / 15 MHz / 3457.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	0.56	0.0002
3.80	1.33	0.0004
3.30	1.12	0.0003

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.64	0.0005
-20	0.54	0.0002
-10	0.70	0.0002
0	1.06	0.0003
10	0.89	0.0003
20	0.80	0.0002
30	1.06	0.0003
40	1.70	0.0005
50	1.29	0.0004
55	1.12	0.0003

5G NR n77 / 15 MHz / 3542.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.38	0.0004
3.80	1.25	0.0004
3.30	-2.14	-0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.04	0.0006
-20	0.56	0.0002
-10	0.45	0.0001
0	0.58	0.0002
10	0.53	0.0001
20	1.08	0.0003
30	0.45	0.0001
40	0.35	0.0001
50	0.56	0.0002
55	1.28	0.0004

5G NR n77 / 20 MHz / 3460 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.57	0.0005
3.80	1.88	0.0005
3.30	0.58	0.0002

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.39	0.0007
-20	1.26	0.0004
-10	1.91	0.0006
0	1.87	0.0005
10	1.47	0.0004
20	1.33	0.0004
30	1.83	0.0005
40	1.85	0.0005
50	1.43	0.0004
55	0.81	0.0002

5G NR n77 / 20 MHz / 3540 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	0.68	0.0002
3.80	1.74	0.0005
3.30	1.20	0.0003

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.30	0.0004
-20	1.85	0.0005
-10	1.67	0.0005
0	0.51	0.0001
10	1.56	0.0004
20	1.84	0.0005
30	1.84	0.0005
40	0.87	0.0002
50	0.59	0.0002
55	2.08	0.0006

5G NR n77 / 30 MHz / 3465 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.27	0.0004
3.80	1.82	0.0005
3.30	0.89	0.0003

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.44	0.0004
-20	1.69	0.0005
-10	2.09	0.0006
0	2.20	0.0006
10	0.96	0.0003
20	1.22	0.0004
30	1.29	0.0004
40	0.88	0.0003
50	1.91	0.0006
55	0.29	0.0001

5G NR n77 / 30 MHz / 3535 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.65	0.0005
3.80	2.36	0.0007
3.30	1.83	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.77	0.0005
-20	2.13	0.0006
-10	1.77	0.0005
0	1.72	0.0005
10	1.31	0.0004
20	1.88	0.0005
30	2.21	0.0006
40	1.80	0.0005
50	1.71	0.0005
55	1.83	0.0005

5G NR n77 / 40 MHz / 3470 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.20	0.0006
3.80	2.65	0.0008
3.30	2.57	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.65	0.0005
-20	1.79	0.0005
-10	1.25	0.0004
0	1.64	0.0005
10	2.88	0.0008
20	2.24	0.0006
30	2.51	0.0007
40	0.90	0.0003
50	1.52	0.0004
55	1.70	0.0005

5G NR n77 / 40 MHz / 3530 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	3.07	0.0009
3.80	3.58	0.0010
3.30	1.87	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	3.35	0.0009
-20	2.98	0.0008
-10	3.44	0.0010
0	4.00	0.0011
10	3.45	0.0010
20	2.96	0.0008
30	2.90	0.0008
40	3.76	0.0011
50	3.57	0.0010
55	2.87	0.0008

5G NR n77 / 50 MHz / 3475 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.10	0.0003
3.80	1.95	0.0006
3.30	1.05	0.0003

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.31	0.0007
-20	1.72	0.0005
-10	1.20	0.0003
0	0.90	0.0003
10	2.07	0.0006
20	2.17	0.0006
30	1.65	0.0005
40	1.86	0.0005
50	1.28	0.0004
55	1.40	0.0004

5G NR n77 / 50 MHz / 3525 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.36	0.0007
3.80	2.98	0.0008
3.30	1.95	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.11	0.0006
-20	3.12	0.0009
-10	2.82	0.0008
0	3.05	0.0009
10	1.63	0.0005
20	1.92	0.0005
30	3.41	0.0010
40	1.85	0.0005
50	2.44	0.0007
55	2.31	0.0007

5G NR n77 / 60 MHz / 3480 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.18	0.0003
3.80	1.79	0.0005
3.30	1.89	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.89	0.0003
-20	0.84	0.0002
-10	0.41	0.0001
0	2.52	0.0007
10	1.18	0.0003
20	1.35	0.0004
30	1.65	0.0005
40	1.38	0.0004
50	2.26	0.0006
55	0.99	0.0003

5G NR n77 / 60 MHz / 3520 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.01	0.0006
3.80	2.89	0.0008
3.30	1.92	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.28	0.0006
-20	2.05	0.0006
-10	2.65	0.0008
0	1.61	0.0005
10	2.50	0.0007
20	3.36	0.0010
30	1.93	0.0005
40	3.00	0.0009
50	2.37	0.0007
55	2.85	0.0008

5G NR n77 / 70 MHz / 3485 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.29	0.0004
3.80	1.71	0.0005
3.30	0.61	0.0002

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.99	0.0003
-20	1.22	0.0004
-10	1.06	0.0003
0	0.49	0.0001
10	1.11	0.0003
20	1.18	0.0003
30	0.81	0.0002
40	1.20	0.0003
50	2.17	0.0006
55	0.79	0.0002

5G NR n77 / 70 MHz / 3515 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.97	0.0006
3.80	2.62	0.0007
3.30	2.08	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.20	0.0006
-20	2.06	0.0006
-10	1.20	0.0003
0	1.26	0.0004
10	2.99	0.0009
20	2.02	0.0006
30	1.94	0.0006
40	1.98	0.0006
50	1.76	0.0005
55	1.99	0.0006

5G NR n77 / 80 MHz / 3490 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.87	0.0005
3.80	1.83	0.0005
3.30	2.35	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.18	0.0003
-20	0.78	0.0002
-10	1.51	0.0004
0	0.94	0.0003
10	0.93	0.0003
20	1.32	0.0004
30	1.84	0.0005
40	1.31	0.0004
50	1.02	0.0003
55	1.98	0.0006

5G NR n77 / 80 MHz / 3510 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.14	0.0006
3.80	2.11	0.0006
3.30	1.59	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.01	0.0006
-20	1.93	0.0005
-10	1.51	0.0004
0	1.35	0.0004
10	1.43	0.0004
20	1.55	0.0004
30	1.57	0.0004
40	2.24	0.0006
50	1.84	0.0005
55	0.94	0.0003

5G NR n77 / 90 MHz / 3495 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.90	0.0005
3.80	1.93	0.0006
3.30	1.97	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.40	0.0004
-20	1.69	0.0005
-10	2.05	0.0006
0	1.34	0.0004
10	1.82	0.0005
20	1.27	0.0004
30	1.38	0.0004
40	0.72	0.0002
50	2.36	0.0007
55	1.06	0.0003

5G NR n77 / 90 MHz / 3505 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.68	0.0008
3.80	2.49	0.0007
3.30	2.21	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.15	0.0006
-20	1.43	0.0004
-10	2.00	0.0006
0	1.17	0.0003
10	1.61	0.0005
20	3.31	0.0009
30	1.87	0.0005
40	2.56	0.0007
50	2.66	0.0008
55	1.65	0.0005

5G NR n77 / 100 MHz / 3500 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.37	0.0007
3.80	2.36	0.0007
3.30	2.64	0.0008

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.64	0.0005
-20	1.70	0.0005
-10	2.42	0.0007
0	1.99	0.0006
10	2.18	0.0006
20	1.38	0.0004
30	2.50	0.0007
40	1.78	0.0005
50	1.53	0.0004
55	1.91	0.0005

Mode 7: 5G NR n77 (Part 27 3700~3980 MHz)**5G NR n77 / 10 MHz / 3705 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.04	0.0003
3.80	1.89	0.0005
3.30	0.79	0.0002

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.46	0.0004
-20	1.86	0.0005
-10	2.06	0.0006
0	1.27	0.0003
10	0.62	0.0002
20	1.36	0.0004
30	1.50	0.0004
40	1.54	0.0004
50	1.57	0.0004
55	1.25	0.0003

5G NR n77 / 10 MHz / 3975 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.87	0.0005
3.80	1.57	0.0004
3.30	0.85	0.0002

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.47	0.0004
-20	1.42	0.0004
-10	1.66	0.0004
0	0.69	0.0002
10	0.60	0.0002
20	1.61	0.0004
30	0.60	0.0002
40	2.08	0.0005
50	1.74	0.0004
55	1.15	0.0003

5G NR n77 / 15 MHz / 3707.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.44	0.0004
3.80	2.01	0.0005
3.30	2.16	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.31	0.0006
-20	0.75	0.0002
-10	1.35	0.0004
0	2.09	0.0006
10	1.30	0.0004
20	1.10	0.0003
30	1.67	0.0005
40	1.69	0.0005
50	2.37	0.0006
55	0.94	0.0003

5G NR n77 / 15 MHz / 3972.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.30	0.0003
3.80	1.66	0.0004
3.30	0.69	0.0002

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.39	0.0003
-20	0.96	0.0002
-10	0.85	0.0002
0	1.66	0.0004
10	0.84	0.0002
20	1.31	0.0003
30	1.22	0.0003
40	0.88	0.0002
50	0.80	0.0002
55	0.94	0.0002

5G NR n77 / 20 MHz / 3710 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.97	0.0005
3.80	2.09	0.0006
3.30	2.37	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.05	0.0003
-20	1.77	0.0005
-10	1.81	0.0005
0	2.11	0.0006
10	0.62	0.0002
20	1.85	0.0005
30	1.29	0.0003
40	2.44	0.0007
50	1.83	0.0005
55	1.27	0.0003

5G NR n77 / 20 MHz / 3970 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.71	0.0007
3.80	3.03	0.0008
3.30	2.38	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	3.07	0.0008
-20	3.01	0.0008
-10	2.94	0.0007
0	2.12	0.0005
10	2.94	0.0007
20	2.02	0.0005
30	3.62	0.0009
40	2.14	0.0005
50	2.02	0.0005
55	2.39	0.0006

5G NR n77 / 30 MHz / 3715 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.78	0.0005
3.80	2.27	0.0006
3.30	2.01	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.80	0.0008
-20	1.90	0.0005
-10	2.15	0.0006
0	2.37	0.0006
10	1.44	0.0004
20	1.79	0.0005
30	2.76	0.0007
40	1.94	0.0005
50	2.31	0.0006
55	1.87	0.0005

5G NR n77 / 30 MHz / 3965 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.73	0.0004
3.80	1.85	0.0005
3.30	2.07	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.38	0.0006
-20	0.75	0.0002
-10	0.94	0.0002
0	1.30	0.0003
10	1.14	0.0003
20	0.94	0.0002
30	0.95	0.0002
40	2.07	0.0005
50	2.19	0.0006
55	1.17	0.0003

5G NR n77 / 40 MHz / 3720 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.45	0.0004
3.80	2.38	0.0006
3.30	1.95	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.70	0.0007
-20	2.66	0.0007
-10	2.67	0.0007
0	0.85	0.0002
10	2.93	0.0008
20	1.93	0.0005
30	1.59	0.0004
40	2.12	0.0006
50	2.33	0.0006
55	1.87	0.0005

5G NR n77 / 40 MHz / 3960 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.92	0.0005
3.80	2.64	0.0007
3.30	3.09	0.0008

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.61	0.0007
-20	1.48	0.0004
-10	1.20	0.0003
0	1.79	0.0005
10	1.13	0.0003
20	2.47	0.0006
30	1.44	0.0004
40	2.30	0.0006
50	1.81	0.0005
55	2.20	0.0006

5G NR n77 / 50 MHz / 3725 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.91	0.0005
3.80	2.88	0.0008
3.30	3.28	0.0009

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.93	0.0005
-20	2.26	0.0006
-10	2.05	0.0006
0	1.47	0.0004
10	2.45	0.0007
20	1.58	0.0004
30	2.28	0.0006
40	1.44	0.0004
50	1.54	0.0004
55	2.70	0.0007

5G NR n77 / 50 MHz / 3955 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.88	0.0007
3.80	2.94	0.0007
3.30	2.94	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.74	0.0007
-20	2.32	0.0006
-10	2.37	0.0006
0	2.64	0.0007
10	2.10	0.0005
20	3.82	0.0010
30	2.29	0.0006
40	1.91	0.0005
50	2.99	0.0008
55	1.93	0.0005

5G NR n77 / 60 MHz / 3730 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	0.74	0.0002
3.80	1.45	0.0004
3.30	0.19	0.0001

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.78	0.0002
-20	1.38	0.0004
-10	0.42	0.0001
0	0.06	0.0000
10	1.05	0.0003
20	1.21	0.0003
30	1.05	0.0003
40	1.77	0.0005
50	0.45	0.0001
55	1.09	0.0003

5G NR n77 / 60 MHz / 3950 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.03	0.0005
3.80	3.12	0.0008
3.30	2.30	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.47	0.0006
-20	3.15	0.0008
-10	2.65	0.0007
0	2.83	0.0007
10	2.61	0.0007
20	3.27	0.0008
30	2.45	0.0006
40	3.23	0.0008
50	3.03	0.0008
55	3.22	0.0008

5G NR n77 / 70 MHz / 3735 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	3.80	0.0010
3.80	3.46	0.0009
3.30	2.93	0.0008

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.78	0.0007
-20	3.31	0.0009
-10	2.95	0.0008
0	2.30	0.0006
10	2.95	0.0008
20	2.39	0.0006
30	2.38	0.0006
40	3.45	0.0009
50	2.50	0.0007
55	3.49	0.0009

5G NR n77 / 70 MHz / 3945 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.25	0.0006
3.80	3.18	0.0008
3.30	1.95	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.80	0.0007
-20	2.02	0.0005
-10	2.20	0.0006
0	2.75	0.0007
10	3.10	0.0008
20	1.87	0.0005
30	3.03	0.0008
40	2.11	0.0005
50	3.05	0.0008
55	2.55	0.0006

5G NR n77 / 80 MHz / 3740 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.18	0.0006
3.80	1.63	0.0004
3.30	0.50	0.0001

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.80	0.0005
-20	1.27	0.0003
-10	0.72	0.0002
0	0.79	0.0002
10	1.72	0.0005
20	1.51	0.0004
30	1.77	0.0005
40	1.07	0.0003
50	0.70	0.0002
55	1.63	0.0004

5G NR n77 / 80 MHz / 3940 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.56	0.0006
3.80	2.89	0.0007
3.30	2.22	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	3.30	0.0008
-20	2.19	0.0006
-10	2.03	0.0005
0	2.48	0.0006
10	1.76	0.0004
20	2.10	0.0005
30	2.22	0.0006
40	2.28	0.0006
50	2.34	0.0006
55	2.44	0.0006

5G NR n77 / 90 MHz / 3745 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	2.56	0.0007
3.80	3.13	0.0008
3.30	1.93	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.33	0.0006
-20	2.48	0.0007
-10	3.07	0.0008
0	3.09	0.0008
10	2.50	0.0007
20	2.26	0.0006
30	1.90	0.0005
40	2.64	0.0007
50	2.13	0.0006
55	1.89	0.0005

5G NR n77 / 90 MHz / 3935 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.41	0.0004
3.80	2.66	0.0007
3.30	1.61	0.0004

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	2.92	0.0007
-20	2.85	0.0007
-10	1.32	0.0003
0	2.29	0.0006
10	1.95	0.0005
20	2.86	0.0007
30	1.97	0.0005
40	2.12	0.0005
50	2.98	0.0008
55	1.75	0.0004

5G NR n77 / 100 MHz / 3750 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.54	0.0004
3.80	1.17	0.0003
3.30	0.35	0.0001

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	0.41	0.0001
-20	-0.11	0.0000
-10	0.39	0.0001
0	0.23	0.0001
10	0.75	0.0002
20	0.71	0.0002
30	0.43	0.0001
40	0.15	0.0000
50	-0.16	0.0000
55	0.43	0.0001

5G NR n77 / 100 MHz / 3930 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
4.30	1.50	0.0004
3.80	2.08	0.0005
3.30	1.51	0.0004

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-30	1.26	0.0003
-20	2.20	0.0006
-10	1.31	0.0003
0	1.52	0.0004
10	1.60	0.0004
20	1.50	0.0004
30	2.59	0.0007
40	2.24	0.0006
50	1.28	0.0003
55	1.56	0.0004