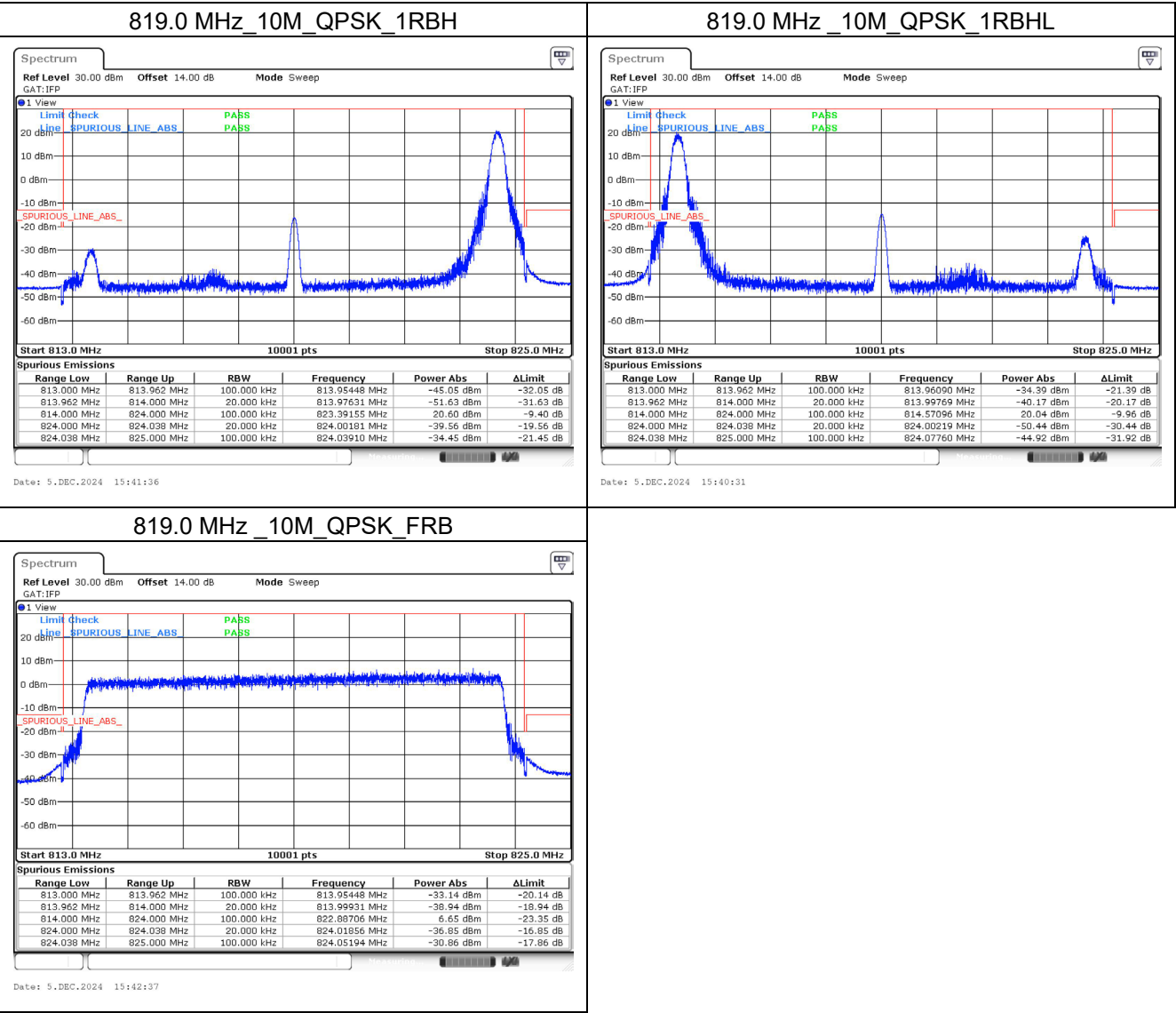
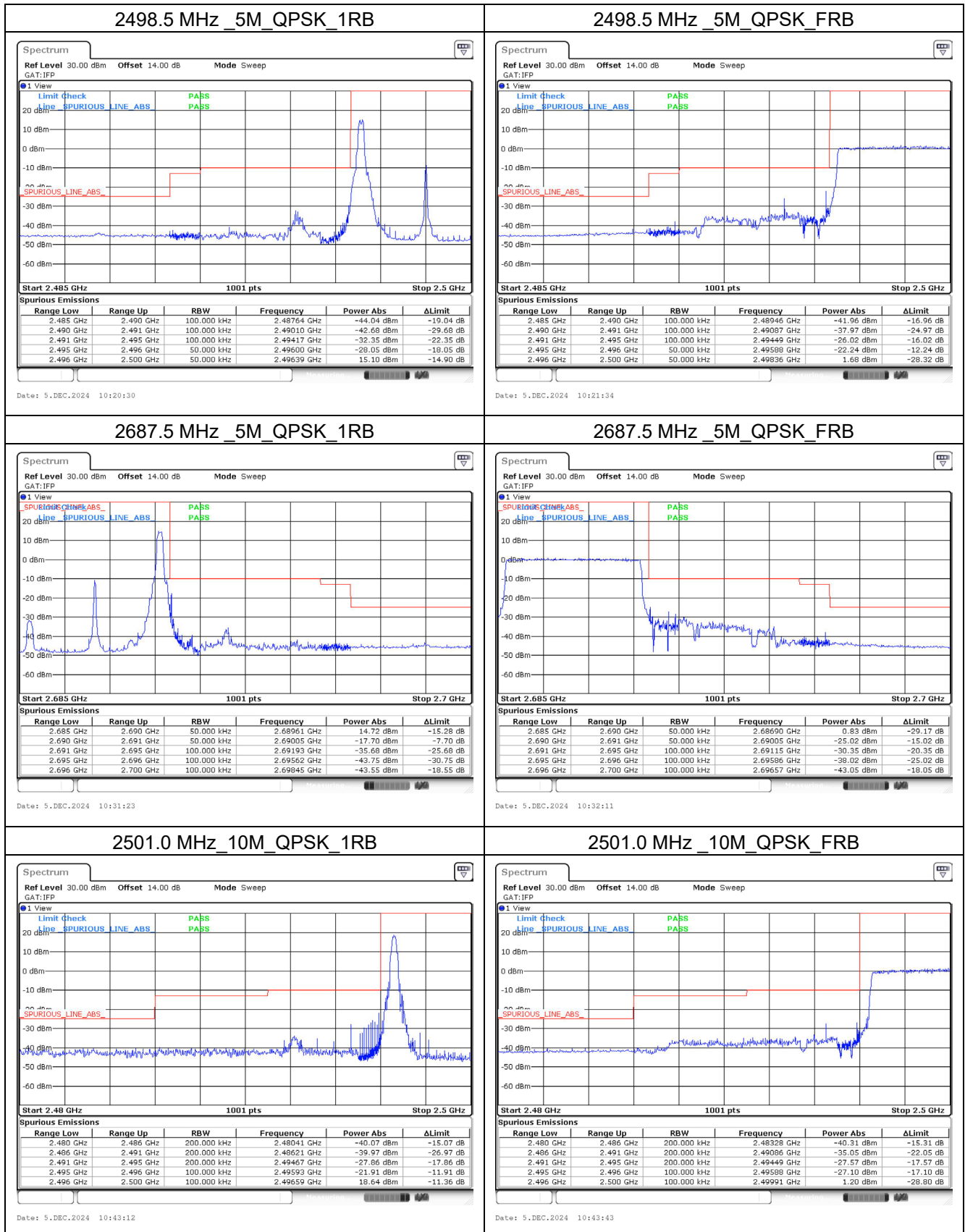
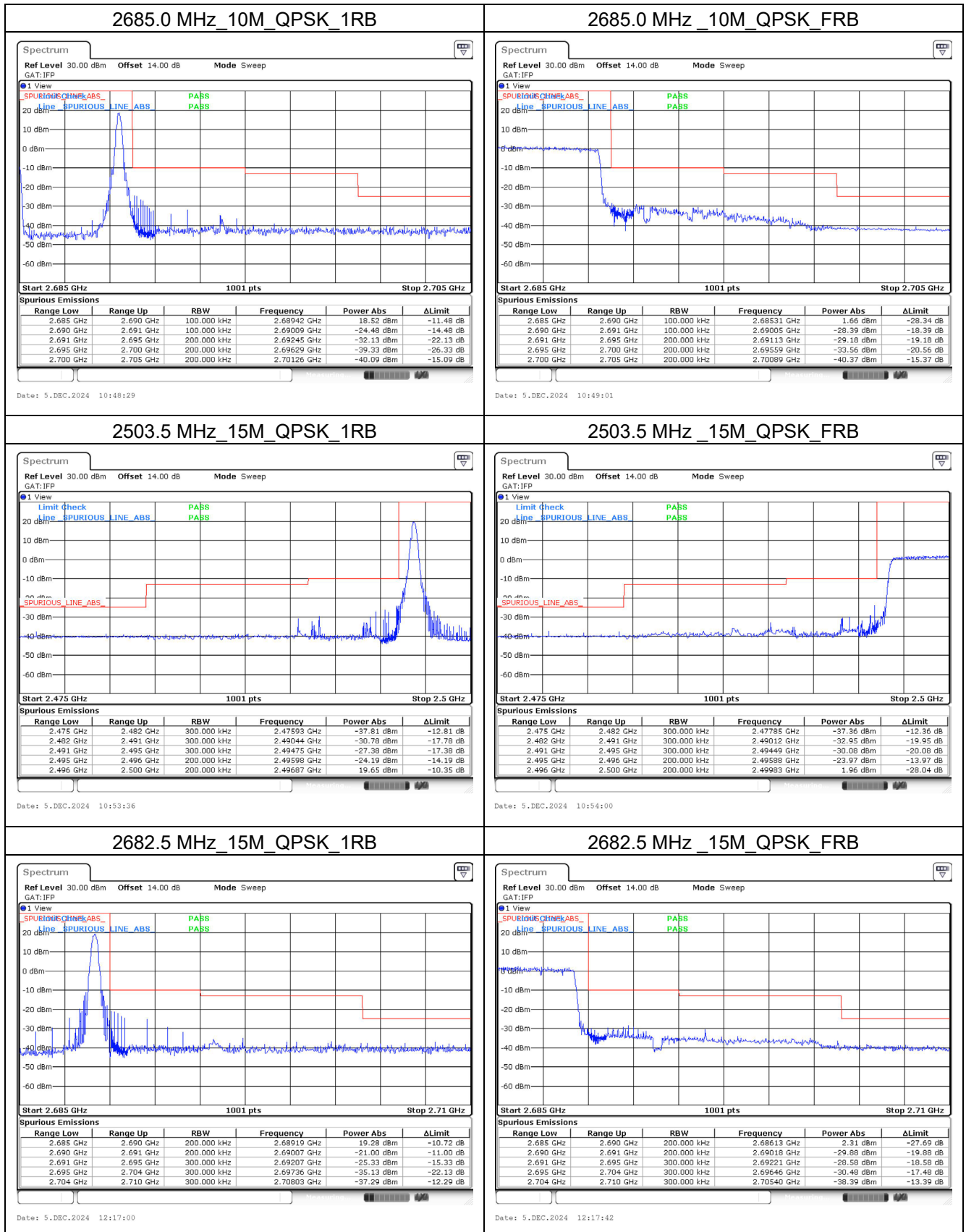
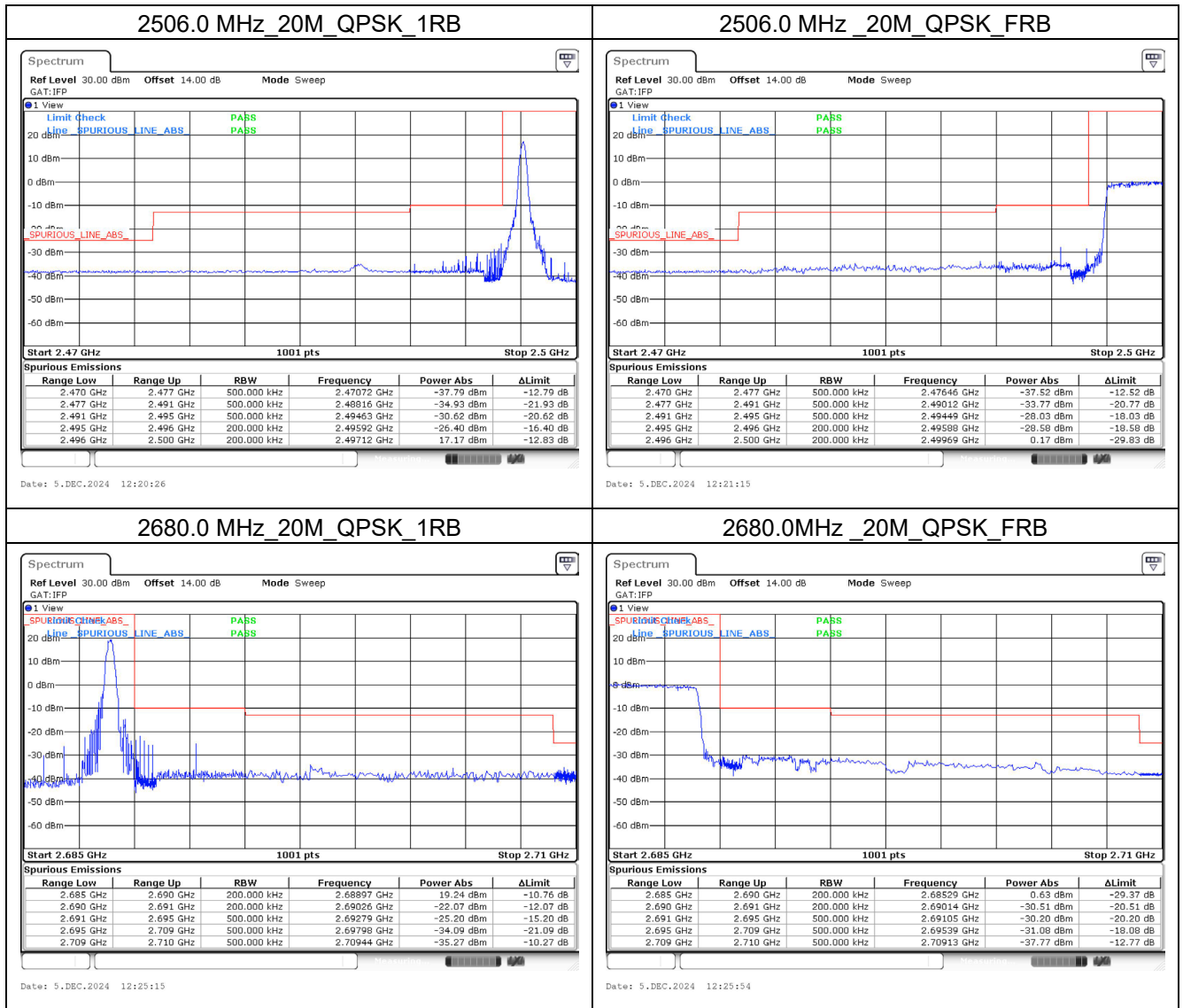




Mode 7: LTE Band 41







Appendix F. Test Result of Frequency Stability

Mode 1: LTE Band 2 / 25

LTE Band 2 / 25 / 1.4 MHz / 1850.7 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.22	0.0007
12.00	1.54	0.0008
9.00	1.55	0.0008

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.49	0.0008
-30	1.01	0.0005
-20	1.45	0.0008
-10	0.76	0.0004
0	1.38	0.0007
10	1.31	0.0007
20	1.65	0.0009
30	0.74	0.0004
40	1.02	0.0006
50	0.87	0.0005
60	1.01	0.0005
70	1.54	0.0008
80	0.63	0.0003
85	1.47	0.0008

LTE Band 2 / 25 / 1.4 MHz / 1882.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.14	0.0011
12.00	1.75	0.0009
9.00	1.07	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.83	0.0010
-30	1.47	0.0008
-20	1.79	0.0010
-10	0.16	0.0001
0	1.14	0.0006
10	1.46	0.0008
20	1.02	0.0005
30	1.03	0.0005
40	1.03	0.0005
50	2.09	0.0011
60	1.18	0.0006
70	1.53	0.0008
80	1.90	0.0010
85	1.55	0.0008

LTE Band 2 / 25 / 1.4 MHz / 1914.3 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.74	0.0014
12.00	2.96	0.0015
9.00	2.72	0.0014

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	2.64	0.0014
-30	2.73	0.0014
-20	2.31	0.0012
-10	2.28	0.0012
0	2.94	0.0015
10	2.90	0.0015
20	2.53	0.0013
30	2.35	0.0012
40	3.36	0.0018
50	1.81	0.0009
60	3.40	0.0018
70	1.92	0.0010
80	2.89	0.0015
85	2.76	0.0014

LTE Band 2 / 25 / 3 MHz / 1851.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-1.78	-0.0010
12.00	-1.23	-0.0007
9.00	-1.13	-0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-1.74	-0.0009
-30	-2.70	-0.0015
-20	-2.05	-0.0011
-10	-1.29	-0.0007
0	-1.19	-0.0006
10	-1.84	-0.0010
20	-1.61	-0.0009
30	-1.79	-0.0010
40	-2.58	-0.0014
50	-2.00	-0.0011
60	-1.49	-0.0008
70	-2.00	-0.0011
80	-1.81	-0.0010
85	-1.04	-0.0006

LTE Band 2 / 25 / 3 MHz / 1882.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-1.94	-0.0010
12.00	-1.08	-0.0006
9.00	-1.76	-0.0009

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-1.65	-0.0009
-30	-1.23	-0.0007
-20	-2.16	-0.0011
-10	-0.69	-0.0004
0	-2.22	-0.0012
10	-1.86	-0.0010
20	-2.66	-0.0014
30	-1.74	-0.0009
40	-1.24	-0.0007
50	-2.31	-0.0012
60	-0.98	-0.0005
70	-1.33	-0.0007
80	-1.51	-0.0008
85	-1.04	-0.0006

LTE Band 2 / 25 / 3 MHz / 1913.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-2.74	-0.0014
12.00	-2.10	-0.0011
9.00	-2.68	-0.0014

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-1.71	-0.0009
-30	-2.26	-0.0012
-20	-3.03	-0.0016
-10	-3.70	-0.0019
0	-3.33	-0.0017
10	-3.50	-0.0018
20	-3.30	-0.0017
30	-2.04	-0.0011
40	-3.07	-0.0016
50	-2.48	-0.0013
60	-3.00	-0.0016
70	-3.14	-0.0016
80	-1.39	-0.0007
85	-2.48	-0.0013

LTE Band 2 / 25 / 5 MHz / 1852.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.13	0.0006
12.00	1.54	0.0008
9.00	0.88	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.49	0.0003
-30	0.93	0.0005
-20	1.11	0.0006
-10	0.44	0.0002
0	1.21	0.0007
10	0.34	0.0002
20	0.78	0.0004
30	1.14	0.0006
40	1.03	0.0006
50	0.97	0.0005
60	1.12	0.0006
70	0.91	0.0005
80	0.61	0.0003
85	0.32	0.0002

LTE Band 2 / 25 / 5 MHz / 1882.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.45	0.0002
12.00	1.75	0.0009
9.00	2.09	0.0011

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	2.17	0.0012
-30	1.49	0.0008
-20	1.11	0.0006
-10	1.60	0.0008
0	0.91	0.0005
10	0.84	0.0004
20	1.84	0.0010
30	1.38	0.0007
40	1.42	0.0008
50	1.42	0.0008
60	2.27	0.0012
70	1.68	0.0009
80	0.58	0.0003
85	0.73	0.0004

LTE Band 2 / 25 / 5 MHz / 1912.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.65	0.0009
12.00	2.96	0.0015
9.00	1.61	0.0008

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	3.05	0.0016
-30	2.65	0.0014
-20	2.73	0.0014
-10	2.78	0.0015
0	2.28	0.0012
10	3.82	0.0020
20	1.82	0.0010
30	1.12	0.0006
40	2.44	0.0013
50	3.16	0.0017
60	2.00	0.0010
70	2.44	0.0013
80	2.13	0.0011
85	2.39	0.0012

LTE Band 2 / 25 / 10 MHz / 1855.0 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.55	0.0003
12.00	1.12	0.0006
9.00	0.72	0.0004

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-0.25	-0.0001
-30	-0.05	0.0000
-20	1.30	0.0007
-10	-0.12	-0.0001
0	-0.38	-0.0002
10	0.38	0.0002
20	-0.20	-0.0001
30	0.74	0.0004
40	0.99	0.0005
50	0.61	0.0003
60	0.31	0.0002
70	0.29	0.0002
80	0.05	0.0000
85	1.43	0.0008

LTE Band 2 / 25 / 10 MHz / 182.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.37	0.0002
12.00	1.22	0.0006
9.00	0.92	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.57	0.0008
-30	-0.04	0.0000
-20	1.73	0.0009
-10	-0.16	-0.0001
0	1.10	0.0006
10	0.79	0.0004
20	0.80	0.0004
30	0.87	0.0005
40	0.99	0.0005
50	1.61	0.0009
60	0.68	0.0004
70	0.01	0.0000
80	0.55	0.0003
85	1.25	0.0007

LTE Band 2 / 25 / 10 MHz / 1905 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.49	0.0008
12.00	2.23	0.0012
9.00	1.67	0.0009

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	2.70	0.0014
-30	2.19	0.0011
-20	2.30	0.0012
-10	1.93	0.0010
0	1.22	0.0006
10	1.57	0.0008
20	1.79	0.0009
30	1.77	0.0009
40	1.58	0.0008
50	1.71	0.0009
60	2.14	0.0011
70	1.89	0.0010
80	1.96	0.0010
85	2.23	0.0012

LTE Band 2 / 25 / 15 MHz / 1857.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.53	0.0008
12.00	1.82	0.0010
9.00	0.82	0.0004

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.52	0.0008
-30	1.20	0.0006
-20	1.05	0.0006
-10	1.22	0.0007
0	1.28	0.0007
10	0.48	0.0003
20	0.76	0.0004
30	1.17	0.0006
40	1.73	0.0009
50	1.59	0.0009
60	1.85	0.0010
70	1.50	0.0008
80	1.94	0.0010
85	1.50	0.0008

LTE Band 2 / 25 / 15 MHz / 1882.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.93	0.0005
12.00	1.02	0.0005
9.00	-0.19	-0.0001

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.94	0.0005
-30	0.37	0.0002
-20	0.53	0.0003
-10	0.40	0.0002
0	0.19	0.0001
10	-0.14	-0.0001
20	0.56	0.0003
30	1.09	0.0006
40	0.87	0.0005
50	-0.18	-0.0001
60	0.00	0.0000
70	-0.42	-0.0002
80	0.39	0.0002
85	0.20	0.0001

LTE Band 2 / 25 / 15 MHz / 1907.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.93	0.0005
12.00	2.15	0.0011
9.00	2.02	0.0011

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.45	0.0008
-30	2.62	0.0014
-20	1.15	0.0006
-10	0.57	0.0003
0	1.37	0.0007
10	1.69	0.0009
20	1.60	0.0008
30	2.60	0.0014
40	1.09	0.0006
50	1.92	0.0010
60	0.72	0.0004
70	1.41	0.0007
80	1.16	0.0006
85	0.99	0.0005

LTE Band 2 / 25 / 20 MHz / 1860 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.25	0.0001
12.00	1.54	0.0008
9.00	1.69	0.0009

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.22	0.0007
-30	1.17	0.0006
-20	0.99	0.0005
-10	1.57	0.0008
0	0.59	0.0003
10	0.80	0.0004
20	0.09	0.0000
30	1.20	0.0006
40	1.40	0.0008
50	1.94	0.0010
60	0.39	0.0002
70	0.87	0.0005
80	0.88	0.0005
85	1.36	0.0007

LTE Band 2 / 25 / 20 MHz / 1882.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.10	0.0011
12.00	1.75	0.0009
9.00	1.74	0.0009

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.18	0.0006
-30	2.10	0.0011
-20	2.34	0.0012
-10	1.14	0.0006
0	1.20	0.0006
10	1.24	0.0007
20	0.92	0.0005
30	1.54	0.0008
40	1.88	0.0010
50	1.69	0.0009
60	0.98	0.0005
70	1.54	0.0008
80	0.98	0.0005
85	1.87	0.0010

LTE Band 2 / 25 / 20 MHz / 1905 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.73	0.0014
12.00	2.96	0.0016
9.00	2.03	0.0011

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	2.34	0.0012
-30	3.15	0.0017
-20	3.78	0.0020
-10	3.21	0.0017
0	3.11	0.0016
10	2.01	0.0011
20	2.19	0.0011
30	1.30	0.0007
40	2.91	0.0015
50	2.47	0.0013
60	2.53	0.0013
70	2.77	0.0015
80	2.86	0.0015
85	2.90	0.0015

Mode 2: LTE Band 4 / 66**LTE Band 4 / 66 / 1.4 MHz / 1710.7 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.37	0.0002
12.00	1.26	0.0007
9.00	0.76	0.0004

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.51	0.0003
-30	0.53	0.0003
-20	0.46	0.0003
-10	1.25	0.0007
0	0.53	0.0003
10	0.48	0.0003
20	0.73	0.0004
30	0.13	0.0001
40	0.97	0.0006
50	1.04	0.0006
60	0.96	0.0006
70	0.07	0.0000
80	-0.20	-0.0001
85	2.10	0.0012

LTE Band 4 / 66 / 1.4 MHz / 1745.0 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.08	0.0000
12.00	1.11	0.0006
9.00	0.47	0.0003

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-0.12	-0.0001
-30	1.50	0.0009
-20	0.42	0.0002
-10	1.37	0.0008
0	0.58	0.0003
10	1.15	0.0007
20	1.28	0.0007
30	1.00	0.0006
40	1.31	0.0008
50	0.99	0.0006
60	1.45	0.0008
70	0.14	0.0001
80	0.78	0.0004
85	0.82	0.0005

LTE Band 4 / 66 / 1.4 MHz / 1779.3 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
32.00	-3.52	-0.0020
12.00	-2.13	-0.0012
6.00	-2.05	-0.0012

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.11	-0.0012
-30	-2.96	-0.0017
-20	-2.80	-0.0016
-10	-2.28	-0.0013
0	-3.19	-0.0018
10	-2.50	-0.0014
20	-2.74	-0.0015
30	-2.20	-0.0012
40	-2.21	-0.0012
50	-1.96	-0.0011
60	-2.23	-0.0013
70	-3.72	-0.0021
80	-2.80	-0.0016
85	-2.69	-0.0015

LTE Band 4 / 66 / 3 MHz / 1711.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.09	0.0006
12.00	1.65	0.0010
9.00	1.15	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.14	0.0007
-30	0.50	0.0003
-20	0.71	0.0004
-10	1.32	0.0008
0	0.97	0.0006
10	0.79	0.0005
20	1.35	0.0008
30	1.16	0.0007
40	0.20	0.0001
50	1.27	0.0007
60	0.97	0.0006
70	0.96	0.0006
80	1.11	0.0006
85	0.58	0.0003

LTE Band 4 / 66 / 3 MHz / 1745.0 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-2.87	-0.0016
12.00	-2.06	-0.0012
9.00	-3.26	-0.0019

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.07	-0.0012
-30	-2.04	-0.0012
-20	-3.79	-0.0022
-10	-2.49	-0.0014
0	-2.48	-0.0014
10	-2.45	-0.0014
20	-3.12	-0.0018
30	-2.33	-0.0013
40	-3.78	-0.0022
50	-2.08	-0.0012
60	-1.56	-0.0009
70	-1.98	-0.0011
80	-3.13	-0.0018
85	-3.08	-0.0018

LTE Band 4 / 66 / 3 MHz / 1778.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-2.43	-0.0014
12.00	-1.77	-0.0010
9.00	-2.44	-0.0014

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-1.71	-0.0010
-30	-2.43	-0.0014
-20	-1.16	-0.0007
-10	-1.64	-0.0009
0	-2.84	-0.0016
10	-2.61	-0.0015
20	-1.69	-0.0010
30	-1.25	-0.0007
40	-1.39	-0.0008
50	-2.12	-0.0012
60	-2.78	-0.0016
70	-3.02	-0.0017
80	-2.08	-0.0012
85	-2.58	-0.0015

LTE Band 4 / 66 / 5 MHz / 1712.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-0.57	-0.0003
12.00	0.95	0.0006
9.00	0.81	0.0005

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.30	0.0002
-30	0.77	0.0004
-20	0.59	0.0003
-10	-0.08	0.0000
0	0.27	0.0002
10	0.03	0.0000
20	-0.07	0.0000
30	-0.42	-0.0002
40	0.83	0.0005
50	0.18	0.0001
60	0.54	0.0003
70	1.51	0.0009
80	0.93	0.0005
85	0.60	0.0004

LTE Band 4 / 66 / 5 MHz / 1745.0 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-1.59	-0.0009
12.00	-1.25	-0.0007
9.00	-0.54	-0.0003

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.00	0.0000
-30	0.80	0.0005
-20	0.50	0.0003
-10	0.00	0.0000
0	0.80	0.0005
10	0.50	0.0003
20	0.00	0.0000
30	0.80	0.0005
40	0.50	0.0003
50	0.00	0.0000
60	0.80	0.0005
70	-2.36	-0.0014
80	-2.63	-0.0015
85	-1.83	-0.0010

LTE Band 4 / 66 / 5 MHz / 1778.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.00	0.0000
12.00	0.80	0.0005
9.00	0.50	0.0003

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-0.61	-0.0003
-30	0.84	0.0005
-20	0.12	0.0001
-10	0.44	0.0002
0	-0.08	0.0000
10	-0.75	-0.0004
20	0.91	0.0005
30	0.38	0.0002
40	0.11	0.0001
50	0.04	0.0000
60	0.68	0.0004
70	1.00	0.0006
80	1.00	0.0006
85	1.15	0.0006

LTE Band 4 / 66 / 10 MHz / 1715 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.85	0.0017
12.00	2.89	0.0017
9.00	3.45	0.0020

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	2.80	0.0016
-30	2.56	0.0015
-20	1.71	0.0010
-10	3.18	0.0019
0	2.06	0.0012
10	3.36	0.0020
20	2.01	0.0012
30	1.54	0.0009
40	2.61	0.0015
50	2.23	0.0013
60	2.85	0.0017
70	2.80	0.0016
80	1.88	0.0011
85	3.26	0.0019

LTE Band 4 / 66 / 10 MHz / 1745 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.18	0.0007
12.00	1.25	0.0007
9.00	0.41	0.0002

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-0.01	0.0000
-30	0.45	0.0003
-20	0.88	0.0005
-10	0.17	0.0001
0	0.42	0.0002
10	1.17	0.0007
20	0.91	0.0005
30	1.15	0.0007
40	1.18	0.0007
50	0.87	0.0005
60	1.79	0.0010
70	0.80	0.0005
80	0.63	0.0004
85	0.84	0.0005

LTE Band 4 / 66 / 10 MHz / 1775 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-2.29	-0.0013
12.00	-1.23	-0.0007
9.00	-2.03	-0.0011

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.25	-0.0013
-30	-1.29	-0.0007
-20	-1.96	-0.0011
-10	-1.20	-0.0007
0	-1.78	-0.0010
10	-1.19	-0.0007
20	-2.69	-0.0015
30	-1.89	-0.0011
40	-1.90	-0.0011
50	-1.51	-0.0009
60	-1.38	-0.0008
70	-2.82	-0.0016
80	-0.97	-0.0005
85	-1.62	-0.0009

LTE Band 4 / 66 / 15 MHz / 1717.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.16	0.0013
12.00	2.18	0.0013
9.00	1.26	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.40	0.0008
-30	2.03	0.0012
-20	1.60	0.0009
-10	1.34	0.0008
0	1.92	0.0011
10	1.10	0.0006
20	0.56	0.0003
30	0.86	0.0005
40	1.80	0.0010
50	2.17	0.0013
60	0.81	0.0005
70	1.96	0.0011
80	1.82	0.0011
85	1.85	0.0011

LTE Band 4 / 66 / 15 MHz / 1745.0 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.05	0.0000
12.00	0.24	0.0001
9.00	-0.04	0.0000

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-0.17	-0.0001
-30	0.60	0.0003
-20	-1.21	-0.0007
-10	-0.64	-0.0004
0	-0.22	-0.0001
10	-1.38	-0.0008
20	-0.18	-0.0001
30	0.17	0.0001
40	0.14	0.0001
50	-0.55	-0.0003
60	0.45	0.0003
70	-0.26	-0.0001
80	0.25	0.0001
85	0.40	0.0002

LTE Band 4 / 66 / 15 MHz / 1772.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-0.76	-0.0004
12.00	0.62	0.0003
9.00	0.20	0.0001

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.84	0.0005
-30	1.03	0.0006
-20	0.81	0.0005
-10	-0.65	-0.0004
0	-0.51	-0.0003
10	-0.19	-0.0001
20	0.28	0.0002
30	-0.90	-0.0005
40	-0.18	-0.0001
50	0.27	0.0002
60	-0.17	-0.0001
70	0.35	0.0002
80	0.30	0.0002
85	0.15	0.0001

LTE Band 4 / 66 / 20 MHz / 1720 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.94	0.0011
12.00	2.01	0.0012
9.00	1.77	0.0010

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.16	0.0007
-30	2.27	0.0013
-20	1.93	0.0011
-10	2.52	0.0015
0	1.21	0.0007
10	1.39	0.0008
20	0.83	0.0005
30	1.27	0.0007
40	1.61	0.0009
50	1.50	0.0009
60	1.06	0.0006
70	1.96	0.0011
80	0.79	0.0005
85	1.35	0.0008

LTE Band 4 / 66 / 20 MHz / 1745 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.61	0.0003
12.00	1.02	0.0006
9.00	-0.29	-0.0002

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.77	0.0004
-30	0.58	0.0003
-20	1.11	0.0006
-10	0.08	0.0000
0	0.16	0.0001
10	1.02	0.0006
20	-0.68	-0.0004
30	0.61	0.0003
40	0.50	0.0003
50	-0.42	-0.0002
60	0.71	0.0004
70	0.33	0.0002
80	0.22	0.0001
85	0.31	0.0002

LTE Band 4 / 66 / 20 MHz / 1770 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.67	0.0009
12.00	1.54	0.0009
9.00	1.31	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.41	0.0002
-30	1.38	0.0008
-20	0.73	0.0004
-10	1.58	0.0009
0	1.85	0.0010
10	1.86	0.0011
20	1.34	0.0008
30	1.49	0.0008
40	1.58	0.0009
50	1.15	0.0006
60	0.98	0.0006
70	1.29	0.0007
80	0.82	0.0005
85	1.05	0.0006

Mode 3: LTE Band 5 / 26 (Part 22)**LTE Band 5 / 26 / 1.4 MHz / 824.7 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-2.36	-0.0029
12.00	-1.49	-0.0018
9.00	-0.95	-0.0012

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.20	-0.0027
-30	-1.66	-0.0020
-20	-2.61	-0.0032
-10	-1.88	-0.0023
0	-2.16	-0.0026
10	-1.70	-0.0021
20	-1.68	-0.0020
30	-2.15	-0.0026
40	-2.15	-0.0026
50	-2.16	-0.0026
60	-1.29	-0.0016
70	-1.57	-0.0019
80	-1.97	-0.0024
85	-2.20	-0.0027

LTE Band 5 / 26 / 1.4 MHz / 836.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-2.95	-0.0035
12.00	-2.32	-0.0028
9.00	-2.71	-0.0032

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.85	-0.0034
-30	-2.30	-0.0027
-20	-3.18	-0.0038
-10	-3.29	-0.0039
0	-2.60	-0.0031
10	-3.63	-0.0043
20	-3.82	-0.0046
30	-2.75	-0.0033
40	-3.20	-0.0038
50	-2.69	-0.0032
60	-2.43	-0.0029
70	-3.37	-0.0040
80	-2.12	-0.0025
85	-1.84	-0.0022

LTE Band 5 / 26 / 1.4 MHz / 848.3 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-2.11	-0.0025
12.00	-1.56	-0.0018
9.00	-1.92	-0.0023

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.09	-0.0025
-30	-1.59	-0.0019
-20	-1.88	-0.0022
-10	-2.45	-0.0029
0	-1.44	-0.0017
10	-2.28	-0.0027
20	-1.07	-0.0013
30	-2.70	-0.0032
40	-1.42	-0.0017
50	-2.37	-0.0028
60	-2.29	-0.0027
70	-2.59	-0.0031
80	-1.32	-0.0016
85	-1.76	-0.0021

LTE Band 5 / 26 / 3 MHz / 825.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.96	0.0024
12.00	2.15	0.0026
9.00	2.42	0.0029

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.99	0.0012
-30	1.41	0.0017
-20	1.88	0.0023
-10	1.47	0.0018
0	2.20	0.0027
10	1.36	0.0016
20	1.74	0.0021
30	2.55	0.0031
40	1.65	0.0020
50	1.65	0.0020
60	1.40	0.0017
70	1.91	0.0023
80	0.87	0.0011
85	1.38	0.0017

LTE Band 5 / 26 / 3 MHz / 836.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.93	0.0011
12.00	1.06	0.0013
9.00	0.75	0.0009

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.19	0.0014
-30	-0.05	-0.0001
-20	-0.20	-0.0002
-10	0.41	0.0005
0	1.66	0.0020
10	0.19	0.0002
20	-0.25	-0.0003
30	1.10	0.0013
40	-0.06	-0.0001
50	-0.07	-0.0001
60	1.57	0.0019
70	0.72	0.0009
80	0.90	0.0011
85	0.18	0.0002

LTE Band 5 / 26 / 3 MHz / 847.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.01	0.0012
12.00	0.98	0.0012
9.00	-0.06	-0.0001

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.38	0.0004
-30	1.14	0.0013
-20	-0.03	0.0000
-10	0.48	0.0006
0	0.72	0.0008
10	-0.47	-0.0006
20	1.54	0.0018
30	0.13	0.0002
40	-0.70	-0.0008
50	0.47	0.0006
60	1.04	0.0012
70	0.08	0.0001
80	-0.23	-0.0003
85	0.75	0.0009

LTE Band 5 / 26 / 5 MHz / 826.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-2.77	-0.0034
12.00	-1.26	-0.0015
9.00	-1.27	-0.0015

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.47	-0.0030
-30	-2.17	-0.0026
-20	-1.94	-0.0023
-10	-1.61	-0.0019
0	-1.49	-0.0018
10	-2.48	-0.0030
20	-1.33	-0.0016
30	-1.69	-0.0020
40	-2.15	-0.0026
50	-2.30	-0.0028
60	-2.31	-0.0028
70	-1.47	-0.0018
80	-1.35	-0.0016
85	-1.69	-0.0020

LTE Band 5 / 26 / 5 MHz / 836.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-3.26	-0.0039
12.00	-2.13	-0.0025
9.00	-2.97	-0.0036

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.07	-0.0025
-30	-2.60	-0.0031
-20	-2.78	-0.0033
-10	-3.06	-0.0037
0	-2.57	-0.0031
10	-1.85	-0.0022
20	-2.47	-0.0030
30	-3.10	-0.0037
40	-3.07	-0.0037
50	-2.64	-0.0032
60	-2.04	-0.0024
70	-2.33	-0.0028
80	-2.64	-0.0032
85	-3.53	-0.0042

LTE Band 5 / 26 / 5 MHz / 846.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.29	0.0003
12.00	1.21	0.0014
9.00	1.03	0.0012

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.46	0.0005
-30	0.88	0.0010
-20	0.65	0.0008
-10	1.08	0.0013
0	0.83	0.0010
10	0.68	0.0008
20	0.17	0.0002
30	0.39	0.0005
40	0.89	0.0011
50	0.55	0.0006
60	1.01	0.0012
70	0.82	0.0010
80	-0.34	-0.0004
85	1.24	0.0015

LTE Band 5 / 26 / 10 MHz / 829 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-0.60	-0.0007
12.00	0.72	0.0009
9.00	0.50	0.0006

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-0.70	-0.0008
-30	0.26	0.0003
-20	-0.20	-0.0002
-10	0.05	0.0001
0	0.10	0.0001
10	-0.38	-0.0005
20	-0.29	-0.0003
30	0.69	0.0008
40	0.53	0.0006
50	0.14	0.0002
60	0.87	0.0010
70	0.13	0.0002
80	0.29	0.0003
85	-0.02	0.0000

LTE Band 5 / 26 / 10 MHz / 836.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.17	0.0026
12.00	2.35	0.0028
9.00	1.40	0.0017

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.98	0.0012
-30	1.90	0.0023
-20	2.28	0.0027
-10	1.76	0.0021
0	1.79	0.0021
10	0.61	0.0007
20	1.38	0.0016
30	1.25	0.0015
40	1.36	0.0016
50	2.12	0.0025
60	2.05	0.0025
70	1.61	0.0019
80	2.54	0.0030
85	1.27	0.0015

LTE Band 5 / 26 / 10 MHz / 844 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-1.46	-0.0017
12.00	-1.24	-0.0015
9.00	-1.78	-0.0021

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-1.58	-0.0019
-30	-1.19	-0.0014
-20	-1.62	-0.0019
-10	-1.53	-0.0018
0	-1.93	-0.0023
10	-1.84	-0.0022
20	-3.03	-0.0036
30	-1.15	-0.0014
40	-2.58	-0.0031
50	-1.39	-0.0016
60	-1.85	-0.0022
70	-1.96	-0.0023
80	-2.45	-0.0029
85	-1.38	-0.0016

LTE Band 5 / 26 / 15 MHz / 831.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.02	0.0024
12.00	2.47	0.0030
9.00	1.78	0.0021

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.78	0.0021
-30	2.92	0.0035
-20	1.55	0.0019
-10	1.87	0.0022
0	2.49	0.0030
10	2.78	0.0033
20	1.38	0.0017
30	1.15	0.0014
40	1.76	0.0021
50	2.01	0.0024
60	1.82	0.0022
70	2.57	0.0031
80	3.01	0.0036
85	2.50	0.0030

LTE Band 5 / 26 / 15 MHz / 836.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	3.12	0.0037
12.00	3.11	0.0037
9.00	3.07	0.0037

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	2.60	0.0031
-30	2.86	0.0034
-20	2.61	0.0031
-10	2.26	0.0027
0	3.19	0.0038
10	2.45	0.0029
20	3.89	0.0047
30	3.71	0.0044
40	2.07	0.0025
50	2.84	0.0034
60	2.59	0.0031
70	3.02	0.0036
80	2.60	0.0031
85	3.09	0.0037

LTE Band 5 / 26 / 15 MHz / 841.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.82	0.0022
12.00	2.63	0.0031
9.00	1.62	0.0019

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	2.17	0.0026
-30	1.69	0.0020
-20	2.30	0.0027
-10	3.12	0.0037
0	2.28	0.0027
10	1.69	0.0020
20	2.32	0.0028
30	2.96	0.0035
40	2.10	0.0025
50	2.23	0.0027
60	2.19	0.0026
70	1.76	0.0021
80	2.34	0.0028
85	2.41	0.0029

Mode 4: LTE Band 12**LTE Band 12 / 1.4 MHz / 699.7 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-2.71	-0.0039
12.00	-1.59	-0.0023
9.00	-2.84	-0.0041

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.09	-0.0030
-30	-2.44	-0.0035
-20	-1.37	-0.0020
-10	-1.93	-0.0028
0	-2.54	-0.0036
10	-1.84	-0.0026
20	-1.93	-0.0028
30	-2.16	-0.0031
40	-1.83	-0.0026
50	-2.23	-0.0032
60	-1.26	-0.0018
70	-1.15	-0.0016
80	-1.84	-0.0026
85	-1.66	-0.0024

LTE Band 12 / 1.4 MHz / 707.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-3.02	-0.0043
12.00	-2.20	-0.0031
9.00	-2.22	-0.0031

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-3.63	-0.0051
-30	-2.70	-0.0038
-20	-2.86	-0.0040
-10	-3.51	-0.0050
0	-1.99	-0.0028
10	-3.32	-0.0047
20	-3.27	-0.0046
30	-2.46	-0.0035
40	-2.96	-0.0042
50	-2.82	-0.0040
60	-3.16	-0.0045
70	-2.66	-0.0038
80	-2.79	-0.0039
85	-3.06	-0.0043

LTE Band 12 / 1.4 MHz / 715.3 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-3.24	-0.0045
12.00	-2.53	-0.0035
9.00	-3.74	-0.0052

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.88	-0.0040
-30	-3.15	-0.0044
-20	-3.36	-0.0047
-10	-3.84	-0.0054
0	-3.36	-0.0047
10	-3.52	-0.0049
20	-3.21	-0.0045
30	-3.35	-0.0047
40	-3.82	-0.0053
50	-3.94	-0.0055
60	-2.49	-0.0035
70	-2.80	-0.0039
80	-2.70	-0.0038
85	-3.19	-0.0045

LTE Band 12 / 3 MHz / 700.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.36	0.0034
12.00	2.65	0.0038
9.00	2.07	0.0030

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	2.43	0.0035
-30	1.88	0.0027
-20	1.25	0.0018
-10	2.10	0.0030
0	2.08	0.0030
10	2.41	0.0034
20	3.07	0.0044
30	1.89	0.0027
40	1.62	0.0023
50	2.26	0.0032
60	2.56	0.0037
70	1.92	0.0027
80	2.86	0.0041
85	2.56	0.0037

LTE Band 12 / 3 MHz / 707.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.63	0.0023
12.00	1.51	0.0021
9.00	1.03	0.0015

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.82	0.0026
-30	0.28	0.0004
-20	1.00	0.0014
-10	1.45	0.0020
0	0.94	0.0013
10	0.88	0.0012
20	0.62	0.0009
30	0.86	0.0012
40	0.52	0.0007
50	1.16	0.0016
60	1.84	0.0026
70	0.87	0.0012
80	0.94	0.0013
85	0.67	0.0009

LTE Band 12 / 3 MHz / 714.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.47	0.0035
12.00	3.19	0.0045
9.00	2.76	0.0039

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	3.64	0.0051
-30	2.23	0.0031
-20	2.97	0.0042
-10	2.17	0.0030
0	3.42	0.0048
10	2.77	0.0039
20	2.35	0.0033
30	2.54	0.0036
40	2.42	0.0034
50	3.01	0.0042
60	1.92	0.0027
70	2.89	0.0040
80	2.49	0.0035
85	3.37	0.0047

LTE Band 12 / 5 MHz / 701.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-3.61	-0.0051
12.00	-2.70	-0.0038
9.00	-2.58	-0.0037

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.75	-0.0039
-30	-3.45	-0.0049
-20	-2.66	-0.0038
-10	-2.70	-0.0038
0	-3.08	-0.0044
10	-3.85	-0.0055
20	-3.44	-0.0049
30	-3.95	-0.0056
40	-2.64	-0.0038
50	-3.42	-0.0049
60	-3.90	-0.0056
70	-3.33	-0.0047
80	-3.58	-0.0051
85	-2.72	-0.0039

LTE Band 12 / 5 MHz / 707.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-2.98	-0.0042
12.00	-2.39	-0.0034
9.00	-3.11	-0.0044

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-2.53	-0.0036
-30	-2.63	-0.0037
-20	-3.16	-0.0045
-10	-2.24	-0.0032
0	-3.68	-0.0052
10	-3.35	-0.0047
20	-2.50	-0.0035
30	-2.47	-0.0035
40	-2.99	-0.0042
50	-2.40	-0.0034
60	-3.13	-0.0044
70	-2.75	-0.0039
80	-3.31	-0.0047
85	-2.21	-0.0031

LTE Band 12 / 5 MHz / 713.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	-2.20	-0.0031
12.00	-1.26	-0.0018
9.00	-1.97	-0.0028

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	-0.93	-0.0013
-30	-2.29	-0.0032
-20	-2.17	-0.0030
-10	-1.05	-0.0015
0	-2.09	-0.0029
10	-1.75	-0.0025
20	-1.56	-0.0022
30	-0.91	-0.0013
40	-1.61	-0.0023
50	-1.91	-0.0027
60	-2.04	-0.0029
70	-2.01	-0.0028
80	-2.02	-0.0028
85	-2.76	-0.0039

LTE Band 12 / 10 MHz / 704 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.07	0.0029
12.00	2.51	0.0036
9.00	0.96	0.0014

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	2.69	0.0038
-30	2.63	0.0037
-20	2.12	0.0030
-10	2.47	0.0035
0	1.33	0.0019
10	2.56	0.0036
20	1.84	0.0026
30	2.45	0.0035
40	2.01	0.0029
50	2.03	0.0029
60	2.36	0.0034
70	2.28	0.0032
80	2.73	0.0039
85	2.75	0.0039

LTE Band 12 / 10 MHz / 707.5 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	2.25	0.0032
12.00	1.64	0.0023
9.00	1.26	0.0018

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	0.25	0.0004
-30	1.42	0.0020
-20	1.78	0.0025
-10	1.06	0.0015
0	0.39	0.0006
10	1.14	0.0016
20	1.18	0.0017
30	1.20	0.0017
40	1.64	0.0023
50	1.48	0.0021
60	0.89	0.0013
70	0.66	0.0009
80	0.04	0.0001
85	1.13	0.0016

LTE Band 12 / 10 MHz / 711.0 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	1.86	0.0026
12.00	2.31	0.0032
9.00	2.16	0.0030

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	2.12	0.0030
-30	1.65	0.0023
-20	2.69	0.0038
-10	1.67	0.0023
0	2.63	0.0037
10	1.20	0.0017
20	2.33	0.0033
30	2.09	0.0029
40	2.42	0.0034
50	0.66	0.0009
60	1.28	0.0018
70	2.86	0.0040
80	1.88	0.0026
85	1.47	0.0021

Mode 5: LTE Band 13**LTE Band 13 / 5 MHz / 779.5 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
18.00	0.69	0.0009
12.00	2.03	0.0026
9.00	2.03	0.0026

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-40	1.88	0.0024
-30	2.63	0.0034
-20	1.31	0.0017
-10	0.32	0.0004
0	0.85	0.0011
10	1.28	0.0016
20	2.13	0.0027
30	0.79	0.0010
40	2.14	0.0027
50	2.72	0.0035
60	1.89	0.0024
70	1.50	0.0019
80	1.34	0.0017
85	1.03	0.0013