



Report No.: SEWM2209000170RG02

Rev.: 01

Page: 93 of 105

Test Band = 5G NR SA Band77_ TM1
Test Channel = Mid 3700-3980 ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	42.57	-42.78	36.39	-59.08	-13.00	46.08	215	121	Horizontal
2	8402.675	43.44	-41.38	37.34	-55.87	-13.00	42.87	184	354	Horizontal
3	8949.5	40.14	-40.89	38.17	-57.84	-13.00	44.84	178	354	Horizontal
4	9429.05	39.47	-39.93	38.48	-57.24	-13.00	44.24	198	319	Horizontal
5	11835.2700	27.98	-37.25	38.79	-65.74	-13.00	52.74	146	165	Horizontal
6	15180.3600	28.48	-33.90	38.98	-61.70	-13.00	48.70	152	105	Horizontal

Test Band = 5G NR SA Band77_ TM1
Test Channel = Mid 3700-3980 ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	42.18	-42.78	36.39	-59.47	-13.00	46.47	254	4	Vertical
2	8412.45	43.96	-41.42	37.36	-55.37	-13.00	42.37	146	243	Vertical
3	8931.675	41.26	-40.90	38.16	-56.74	-13.00	43.74	235	105	Vertical
4	9421	40.01	-39.93	38.48	-56.69	-13.00	43.69	195	182	Vertical
5	11835.2700	27.10	-37.25	38.79	-66.62	-13.00	53.62	184	30	Vertical
6	15180.3600	29.40	-33.90	38.98	-60.78	-13.00	47.78	176	260	Vertical



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Report No.: SEWM2209000170RG02

Rev.: 01

Page: 94 of 105

Test Band = 5G NR SA Band77_ TM1
Test Channel = High 3700-3980 ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	41.08	-42.69	36.86	-60.01	-13.00	47.01	218	335	Horizontal
2	8417.625	44.21	-41.45	37.37	-55.13	-13.00	42.13	149	30	Horizontal
3	8943.175	40.30	-40.89	38.17	-57.69	-13.00	44.69	175	358	Horizontal
4	9468.725	39.48	-39.95	38.47	-57.25	-13.00	44.25	165	358	Horizontal
5	11805.2700	27.21	-37.21	38.76	-66.50	-13.00	53.50	231	227	Horizontal
6	15740.3600	28.99	-33.18	38.27	-61.18	-13.00	48.18	164	75	Horizontal

Test Band = 5G NR SA Band77_ TM1
Test Channel = High 3700-3980 ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	41.40	-42.69	36.86	-59.69	-13.00	46.69	218	317	Vertical
2	8412.45	43.92	-41.42	37.36	-55.41	-13.00	42.41	196	359	Vertical
3	9001.825	40.34	-40.86	38.20	-57.58	-13.00	44.58	174	165	Vertical
4	9515.3	39.59	-39.84	38.46	-57.05	-13.00	44.05	122	360	Vertical
5	11805.2700	28.05	-37.21	38.76	-65.66	-13.00	52.66	146	182	Vertical
6	15740.3600	28.05	-33.18	38.27	-62.12	-13.00	49.12	213	46	Vertical



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Report No.: SEWM2209000170RG02

Rev.: 01

Page: 95 of 105

Test Band = 5G NR SA Band77_ TM1
Test Channel = Low 3700-3980 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	43.50	-43.27	36.54	-58.49	-13.00	45.49	226	14	Horizontal
2	8401.525	43.81	-41.38	37.33	-55.49	-13.00	42.49	154	287	Horizontal
3	8967.9	41.24	-40.88	38.18	-56.72	-13.00	43.72	148	14	Horizontal
4	9457.8	39.97	-39.94	38.48	-56.76	-13.00	43.76	195	106	Horizontal
5	10965.2700	28.02	-37.67	39.10	-65.81	-13.00	52.81	172	287	Horizontal
6	14620.3600	28.22	-35.23	39.91	-62.36	-13.00	49.36	130	242	Horizontal

Test Band = 5G NR SA Band77_ TM1
Test Channel = Low 3700-3980 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	43.08	-43.27	36.54	-58.91	-13.00	45.91	148	287	Vertical
2	8424.525	42.98	-41.48	37.38	-56.37	-13.00	43.37	155	287	Vertical
3	8932.825	40.60	-40.90	38.16	-57.40	-13.00	44.40	133	256	Vertical
4	9465.85	39.58	-39.95	38.47	-57.15	-13.00	44.15	261	359	Vertical
5	10965.2700	28.75	-37.67	39.10	-65.08	-13.00	52.08	199	360	Vertical
6	14620.3600	26.98	-35.23	39.91	-63.60	-13.00	50.60	170	44	Vertical



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Report No.: SEWM2209000170RG02

Rev.: 01

Page: 96 of 105

Test Band = 5G NR SA Band77_ TM1
Test Channel = Mid 3700-3980 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	41.86	-42.78	36.39	-59.79	-13.00	46.79	164	360	Horizontal
2	8419.35	43.82	-41.45	37.37	-55.52	-13.00	42.52	185	90	Horizontal
3	8929.95	40.54	-40.90	38.16	-57.46	-13.00	44.46	165	135	Horizontal
4	9422.15	38.90	-39.93	38.48	-57.80	-13.00	44.80	142	104	Horizontal
5	11835.2700	27.78	-37.25	38.79	-65.94	-13.00	52.94	175	104	Horizontal
6	15180.3600	28.68	-33.90	38.98	-61.50	-13.00	48.50	193	135	Horizontal

Test Band = 5G NR SA Band77_ TM1
Test Channel = Mid 3700-3980 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	42.94	-42.78	36.39	-58.71	-13.00	45.71	148	198	Vertical
2	8419.35	43.91	-41.45	37.37	-55.43	-13.00	42.43	159	182	Vertical
3	8973.075	40.07	-40.88	38.18	-57.89	-13.00	44.89	122	167	Vertical
4	9464.7	39.36	-39.95	38.47	-57.37	-13.00	44.37	149	354	Vertical
5	11835.2700	27.79	-37.25	38.79	-65.93	-13.00	52.93	195	274	Vertical
6	15180.3600	28.54	-33.90	38.98	-61.64	-13.00	48.64	173	257	Vertical



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Report No.: SEWM2209000170RG02

Rev.: 01

Page: 97 of 105

Test Band = 5G NR SA Band77_ TM1
Test Channel = High 3700-3980 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	41.69	-42.69	36.86	-59.40	-13.00	46.40	203	360	Horizontal
2	8406.125	42.97	-41.40	37.34	-56.34	-13.00	43.34	215	61	Horizontal
3	8932.25	40.95	-40.90	38.16	-57.05	-13.00	44.05	196	29	Horizontal
4	9485.975	39.36	-39.95	38.47	-57.39	-13.00	44.39	280	104	Horizontal
5	11805.2700	29.08	-37.21	38.76	-64.63	-13.00	51.63	194	332	Horizontal
6	15740.3600	28.80	-33.18	38.27	-61.37	-13.00	48.37	132	272	Horizontal

Test Band = 5G NR SA Band77_ TM1
Test Channel = High 3700-3980 ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	40.24	-42.69	36.86	-60.85	-13.00	47.85	215	299	Vertical
2	8421.65	43.25	-41.46	37.38	-56.10	-13.00	43.10	142	13	Vertical
3	8937.425	40.70	-40.90	38.16	-57.29	-13.00	44.29	198	357	Vertical
4	9441.7	39.47	-39.94	38.48	-57.25	-13.00	44.25	284	164	Vertical
5	11805.2700	27.45	-37.21	38.76	-66.26	-13.00	53.26	276	209	Vertical
6	15740.3600	30.36	-33.18	38.27	-59.81	-13.00	46.81	236	104	Vertical



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Report No.: SEWM2209000170RG02

Rev.: 01

Page: 98 of 105

Test Band = 5G NR SA Band77_ TM1
Test Channel = Low 3700-3980 ANT5

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.

Test Band = 5G NR SA Band77_ TM1
Test Channel = Low 3700-3980 ANT5

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.



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Report No.: SEWM2209000170RG02

Rev.: 01

Page: 99 of 105

Test Band = 5G NR SA Band77_ TM1
Test Channel = Mid 3700-3980 ANT5

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.

Test Band = 5G NR SA Band77_ TM1
Test Channel = Mid 3700-3980 ANT5

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.



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Report No.: SEWM2209000170RG02

Rev.: 01

Page: 100 of 105

Test Band = 5G NR SA Band77_ TM1
Test Channel = High 3700-3980 ANT5

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	41.37	-42.69	36.86	-59.72	-13.00	46.72	255	200	Horizontal
2	8430.275	43.86	-41.50	37.39	-55.51	-13.00	42.51	146	170	Horizontal
3	8947.2	42.28	-40.89	38.17	-55.70	-13.00	42.70	231	140	Horizontal
4	9423.3	39.41	-39.93	38.48	-57.30	-13.00	44.30	196	60	Horizontal
5	11805.2700	27.76	-37.21	38.76	-65.95	-13.00	52.95	184	10	Horizontal
6	15740.3600	28.87	-33.18	38.27	-61.30	-13.00	48.30	172	10	Horizontal

Test Band = 5G NR SA Band77_ TM1
Test Channel = High 3700-3980 ANT5

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	41.14	-42.69	36.86	-59.95	-13.00	46.95	216	10	Vertical
2	8409	44.30	-41.41	37.35	-55.02	-13.00	42.02	142	90	Vertical
3	8959.275	40.69	-40.89	38.18	-57.28	-13.00	44.28	188	230	Vertical
4	9452.05	39.90	-39.94	38.48	-56.82	-13.00	43.82	195	230	Vertical
5	11805.2700	28.64	-37.21	38.76	-65.07	-13.00	52.07	142	0	Vertical
6	15740.3600	29.26	-33.18	38.27	-60.91	-13.00	47.91	130	230	Vertical



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Report No.: SEWM2209000170RG02

Rev.: 01

Page: 101 of 105

Test Band = 5G NR SA Band77_ TM1
Test Channel = Low 3700-3980 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	45.03	-43.27	36.54	-56.96	-13.00	43.96	287	280	Horizontal
2	8422.8	44.67	-41.47	37.38	-54.68	-13.00	41.68	146	320	Horizontal
3	8929.95	42.07	-40.90	38.16	-55.93	-13.00	42.93	269	210	Horizontal
4	9525.075	40.33	-39.77	38.46	-56.24	-13.00	43.24	281	40	Horizontal
5	10965.2700	30.74	-37.67	39.10	-63.09	-13.00	50.09	143	80	Horizontal
6	14620.3600	28.57	-35.23	39.91	-62.01	-13.00	49.01	233	80	Horizontal

Test Band = 5G NR SA Band77_ TM1
Test Channel = Low 3700-3980 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.1800	43.51	-43.27	36.54	-58.48	-13.00	45.48	298	350	Vertical
2	8409	44.79	-41.41	37.35	-54.53	-13.00	41.53	148	80	Vertical
3	8971.35	42.27	-40.88	38.18	-55.69	-13.00	42.69	175	300	Vertical
4	9437.675	40.93	-39.94	38.48	-55.78	-13.00	42.78	165	160	Vertical
5	10965.2700	30.21	-37.67	39.10	-63.62	-13.00	50.62	122	100	Vertical
6	14620.3600	27.90	-35.23	39.91	-62.68	-13.00	49.68	149	270	Vertical



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Report No.: SEWM2209000170RG02

Rev.: 01

Page: 102 of 105

Test Band = 5G NR SA Band77_ TM1
Test Channel = Mid 3700-3980 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	43.48	-42.78	36.39	-58.17	-13.00	45.17	196	155	Horizontal
2	8467.65	44.62	-41.66	37.47	-54.83	-13.00	41.83	185	200	Horizontal
3	8939.15	42.32	-40.89	38.16	-55.67	-13.00	42.67	147	100	Horizontal
4	9433.65	41.17	-39.93	38.48	-55.54	-13.00	42.54	126	70	Horizontal
5	11835.2700	29.51	-37.25	38.79	-64.21	-13.00	51.21	143	130	Horizontal
6	15180.3600	28.91	-33.90	38.98	-61.27	-13.00	48.27	151	230	Horizontal

Test Band = 5G NR SA Band77_ TM1
Test Channel = Mid 3700-3980 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7590.1800	43.99	-42.78	36.39	-57.66	-13.00	44.66	299	90	Vertical
2	8421.65	45.46	-41.46	37.38	-53.89	-13.00	40.89	143	150	Vertical
3	9054.15	41.94	-40.62	38.24	-55.70	-13.00	42.70	265	30	Vertical
4	9475.05	41.02	-39.95	38.47	-55.72	-13.00	42.72	155	340	Vertical
5	11835.2700	30.67	-37.25	38.79	-63.05	-13.00	50.05	180	30	Vertical
6	15180.3600	29.32	-33.90	38.98	-60.86	-13.00	47.86	179	70	Vertical



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Test Band = 5G NR SA Band77_ TM1
Test Channel = High 3700-3980 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	43.19	-42.69	36.86	-57.90	-13.00	44.90	223	310	Horizontal
2	8417.05	45.59	-41.44	37.37	-53.75	-13.00	40.75	251	190	Horizontal
3	8938	43.18	-40.89	38.16	-54.81	-13.00	41.81	146	240	Horizontal
4	9510.7	41.93	-39.88	38.46	-54.75	-13.00	41.75	196	260	Horizontal
5	11805.2700	30.19	-37.21	38.76	-63.52	-13.00	50.52	215	80	Horizontal
6	15740.3600	29.14	-33.18	38.27	-61.03	-13.00	48.03	174	300	Horizontal

Test Band = 5G NR SA Band77_ TM1
Test Channel = High 3700-3980 ANT6

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7870.1800	44.16	-42.69	36.86	-56.93	-13.00	43.93	185	320	Vertical
2	8483.175	45.21	-41.73	37.50	-54.27	-13.00	41.27	149	330	Vertical
3	8745.375	43.01	-41.25	37.99	-55.51	-13.00	42.51	126	30	Vertical
4	9446.875	42.13	-39.94	38.48	-54.59	-13.00	41.59	155	220	Vertical
5	11805.2700	29.42	-37.21	38.76	-64.29	-13.00	51.29	192	90	Vertical
6	15740.3600	29.53	-33.18	38.27	-60.64	-13.00	47.64	148	140	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Report No.: SEWM2209000170RG02

Rev.: 01

Page: 104 of 105

Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	9.100000	0.002370	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	25.200000	0.006563	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	12.900000	0.003359	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	8.900000	0.002318	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	14.600000	0.003802	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	13.900000	0.003620	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.200000	0.002396	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	7.400000	0.001927	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	13.300000	0.003464	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	14.600000	0.003802	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	15.200000	0.003958	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	7.500000	0.001953	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	11.700000	0.003047	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	16.000000	0.004167	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	12.800000	0.003333	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	13.900000	0.003620	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	6.800000	0.001771	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	9.200000	0.002396	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	5.300000	0.001380	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	3.500000	0.000911	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	15.800000	0.004115	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	12.200000	0.003177	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	6.200000	0.001615	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	13.700000	0.003568	PASS

---End of Attachment---



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