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Rev.: 01

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Test Band = 5G NR N66_N77_TM1
Test Channel = High 3700-3980

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	44.23	-42.69	36.86	-56.86	-13.00	43.86	269	270	Horizontal
2	8402.675	45.15	-41.38	37.34	-54.16	-13.00	41.16	255	2	Horizontal
3	9465.275	42.01	-39.95	38.47	-54.72	-13.00	41.72	148	1	Horizontal
4	11805.2700	29.70	-37.21	38.76	-64.01	-13.00	51.01	185	285	Horizontal
5	13705.325	33.63	-36.00	40.05	-57.58	-13.00	44.58	176	356	Horizontal
6	15740.3600	29.97	-33.18	38.27	-60.20	-13.00	47.20	133	0	Horizontal

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	44.07	-42.69	36.86	-57.02	-13.00	44.02	256	36	Vertical
2	8417.625	46.13	-41.45	37.37	-53.21	-13.00	40.21	122	236	Vertical
3	9567.05	42.58	-39.45	38.45	-53.68	-13.00	40.68	148	175	Vertical
4	11805.2700	31.14	-37.21	38.76	-62.57	-13.00	49.57	159	312	Vertical
5	15342.35	32.55	-33.98	38.78	-57.91	-13.00	44.91	133	21	Vertical
6	15740.3600	29.32	-33.18	38.27	-60.85	-13.00	47.85	255	0	Vertical



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Test Band = 5G NR N71_N77_TM1
Test Channel = Low 3700-3980

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	41.00	-43.27	36.54	-60.99	-13.00	47.99	254	252	Horizontal
2	8933.975	40.32	-40.90	38.16	-57.68	-13.00	44.68	162	86	Horizontal
3	9442.85	38.43	-39.94	38.48	-58.29	-13.00	45.29	133	69	Horizontal
4	10965.2700	27.20	-37.67	39.10	-66.63	-13.00	53.63	251	224	Horizontal
5	12850.875	31.34	-36.75	39.68	-60.99	-13.00	47.99	189	329	Horizontal
6	14620.3600	27.32	-35.23	39.91	-63.26	-13.00	50.26	194	100	Horizontal

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	42.98	-43.27	36.54	-59.01	-13.00	46.01	211	0	Vertical
2	8435.45	43.04	-41.52	37.40	-56.34	-13.00	43.34	132	177	Vertical
3	10965.2700	26.88	-37.67	39.10	-66.95	-13.00	53.95	165	254	Vertical
4	12835.35	31.23	-36.71	39.67	-61.07	-13.00	48.07	125	222	Vertical
5	14620.3600	27.55	-35.23	39.91	-63.03	-13.00	50.03	195	330	Vertical
6	16356.65	34.41	-34.68	37.70	-57.83	-13.00	44.83	142	163	Vertical



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Test Band = 5G NR N71_N77_TM1
Test Channel = Mid 3700-3980

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	42.83	-42.78	36.39	-58.82	-13.00	45.82	215	14	Horizontal
2	8937.425	39.88	-40.90	38.16	-58.11	-13.00	45.11	142	0	Horizontal
3	9470.45	37.99	-39.95	38.47	-58.75	-13.00	45.75	136	117	Horizontal
4	11835.2700	28.14	-37.25	38.79	-65.58	-13.00	52.58	255	134	Horizontal
5	13816.875	31.59	-36.14	39.98	-59.83	-13.00	46.83	169	357	Horizontal
6	15180.3600	28.56	-33.90	38.98	-61.62	-13.00	48.62	148	134	Horizontal

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	41.68	-42.78	36.39	-59.97	-13.00	46.97	241	330	Vertical
2	8422.225	43.02	-41.47	37.38	-56.33	-13.00	43.33	152	255	Vertical
3	8939.15	39.54	-40.89	38.16	-58.45	-13.00	45.45	123	209	Vertical
4	11311.025	31.75	-37.26	39.11	-61.66	-13.00	48.66	269	195	Vertical
5	11835.2700	27.61	-37.25	38.79	-66.11	-13.00	53.11	251	1	Vertical
6	15180.3600	28.61	-33.90	38.98	-61.57	-13.00	48.57	188	134	Vertical



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Test Band = 5G NR N71_N77_TM1
Test Channel = High 3700-3980

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	39.94	-42.69	36.86	-61.15	-13.00	48.15	278	2	Horizontal
2	8936.85	39.44	-40.90	38.16	-58.55	-13.00	45.55	145	2	Horizontal
3	9423.3	38.21	-39.93	38.48	-58.50	-13.00	45.50	126	102	Horizontal
4	11805.2700	26.56	-37.21	38.76	-67.15	-13.00	54.15	295	316	Horizontal
5	12787.05	31.52	-36.65	39.61	-60.78	-13.00	47.78	145	26	Horizontal
6	15740.3600	28.89	-33.18	38.27	-61.28	-13.00	48.28	180	72	Horizontal

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	39.44	-42.69	36.86	-61.65	-13.00	48.65	155	356	Vertical
s	8407.85	42.86	-41.40	37.35	-56.46	-13.00	43.46	142	71	Vertical
3	9449.175	39.03	-39.94	38.48	-57.69	-13.00	44.69	199	102	Vertical
4	11805.2700	27.18	-37.21	38.76	-66.53	-13.00	53.53	128	133	Vertical
5	12752.55	30.73	-36.72	39.55	-61.70	-13.00	48.70	174	285	Vertical
6	15740.3600	28.29	-33.18	38.27	-61.88	-13.00	48.88	186	13	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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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-QPSK	M	Outer_Full	VH	NT	9.100000	0.002370	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	VN	NT	25.200000	0.006563	PASS
N77-3700-3980	30	100	DFT-QPSK	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-QPSK	M	Outer_Full	NV	-30	9.200000	0.002396	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	-20	7.400000	0.001927	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	-10	13.300000	0.003464	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	0	14.600000	0.003802	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	10	15.200000	0.003958	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	20	7.500000	0.001953	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	30	11.700000	0.003047	PASS
N77-3700-3980	30	100	DFT-QPSK	M	Outer_Full	NV	40	16.000000	0.004167	PASS
N77-3700-3980	30	100	DFT-QPSK	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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