



Test Band = NR N66A_N77A_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]	Polarity
1	7356.75	39.08	-43.02	36.20	-63.00	-13.00	50.00	Horizontal
2	7875.4	38.92	-42.70	36.75	-62.29	-13.00	49.29	Horizontal
3	9094.975	35.27	-40.43	36.48	-63.94	-13.00	50.94	Horizontal
4	9608.45	34.43	-39.22	37.46	-62.60	-13.00	49.60	Horizontal
5	11456.5	29.33	-36.95	38.75	-64.13	-13.00	51.13	Horizontal
6	15823.05	25.92	-33.31	39.57	-63.08	-13.00	50.08	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7623.55	39.47	-42.79	36.65	-61.93	-13.00	48.93	Vertical
2	8418.2	38.47	-41.45	36.59	-61.65	-13.00	48.65	Vertical
3	8979.4	36.19	-40.88	36.31	-63.64	-13.00	50.64	Vertical
4	10379.525	31.63	-38.77	38.39	-64.01	-13.00	51.01	Vertical
5	12242.525	27.73	-36.91	38.87	-65.57	-13.00	52.57	Vertical
6	15155.475	25.91	-34.08	40.97	-62.46	-13.00	49.46	Vertical



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = NR N66A_N77A_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]	Polarity
1	7397	40.13	-42.81	36.31	-61.62	-13.00	48.62	Horizontal
2	8203.15	37.38	-42.14	36.70	-63.32	-13.00	50.32	Horizontal
3	8948.925	36.22	-40.89	36.33	-63.60	-13.00	50.60	Horizontal
4	9621.1	34.60	-39.26	37.48	-62.44	-13.00	49.44	Horizontal
5	11452.475	29.53	-36.99	38.75	-63.97	-13.00	50.97	Horizontal
6	14321.725	27.09	-35.69	41.03	-62.83	-13.00	49.83	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7548.8	39.74	-42.96	36.62	-61.86	-13.00	48.86	Vertical
2	8931.1	36.29	-40.90	36.33	-63.53	-13.00	50.53	Vertical
3	9571.075	34.41	-39.42	37.39	-62.88	-13.00	49.88	Vertical
4	11335.175	30.01	-37.33	38.73	-63.84	-13.00	50.84	Vertical
5	12305.2	28.28	-36.66	38.89	-64.75	-13.00	51.75	Vertical
6	13757.075	27.82	-36.14	40.46	-63.12	-13.00	50.12	Vertical



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Test Band = NR N66A_N77A_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]	Polarity
1	8413.025	38.39	-41.43	36.59	-61.70	-13.00	48.70	Horizontal
2	9588.9	34.25	-39.28	37.42	-62.88	-13.00	49.88	Horizontal
3	10368.6	31.76	-38.80	38.38	-63.91	-13.00	50.91	Horizontal
4	11451.9	29.13	-36.99	38.75	-64.38	-13.00	51.38	Horizontal
5	12718.05	27.36	-36.79	39.02	-65.68	-13.00	52.68	Horizontal
6	14464.325	25.61	-34.53	41.09	-63.10	-13.00	50.10	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7831.125	38.97	-42.63	36.73	-62.19	-13.00	49.19	Vertical
2	9406.05	34.84	-39.92	37.07	-63.27	-13.00	50.27	Vertical
3	9688.95	33.10	-39.45	37.61	-64.00	-13.00	51.00	Vertical
4	11445.575	29.52	-37.05	38.74	-64.05	-13.00	51.05	Vertical
5	12842.825	28.30	-36.73	39.05	-64.63	-13.00	51.63	Vertical
6	14629.925	26.13	-35.17	41.15	-63.15	-13.00	50.15	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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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-5.300000	-0.001263	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-4.800000	-0.001426	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-5.100000	-0.001534	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	-3.300000	-0.000863	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-2.100000	-0.000763	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	-4.500000	-0.001453	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-3.500000	-0.001563	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-3.500000	-0.000756	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.300000	-0.000763	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-5.200000	-0.002534	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-4.800000	-0.001352	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.300000	-0.004587	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-5.500000	-0.005269	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-4.700000	-0.001452	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-6.700000	-0.004126	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-3.800000	-0.000236	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	-4.700000	-0.001563	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	-3.800000	-0.000569	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	-5.500000	-0.001365	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	-5.100000	-0.004236	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	-3.800000	-0.001532	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	-2.400000	-0.000824	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	-2.500000	-0.000653	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	-4.200000	-0.004123	PASS

---End of Attachment---



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