



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Rev.: 01
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Test Band = n71_ TM1

Test Channel = Mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343.0000	45.97	24.23	-49.02	-74.08	-13.00	61.08	Horizontal
2	2014.5000	45.26	26.24	-48.61	-72.37	-13.00	59.37	Horizontal
3	2686.0000	44.62	27.85	-47.90	-70.69	-13.00	57.69	Horizontal
4	3357.5000	44.75	28.67	-47.27	-69.11	-13.00	56.11	Horizontal
5	4029.0000	44.54	29.54	-47.40	-68.58	-13.00	55.58	Horizontal
6	4700.5000	44.18	30.68	-46.98	-67.38	-13.00	54.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343.0000	46.10	24.23	-49.02	-73.95	-13.00	60.95	Vertical
2	2014.5000	45.33	26.24	-48.61	-72.30	-13.00	59.30	Vertical
3	2686.0000	44.81	27.85	-47.90	-70.50	-13.00	57.50	Vertical
4	3357.5000	44.73	28.67	-47.27	-69.13	-13.00	56.13	Vertical
5	4029.0000	44.36	29.54	-47.40	-68.76	-13.00	55.76	Vertical
6	4700.5000	44.48	30.68	-46.98	-67.08	-13.00	54.08	Vertical



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Test Band = n71_ TM1

Test Channel = High channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.0000	46.46	24.22	-49.05	-73.63	-13.00	60.63	Horizontal
2	2037.0000	45.29	26.29	-48.49	-72.17	-13.00	59.17	Horizontal
3	2716.0000	44.89	27.92	-47.78	-70.23	-13.00	57.23	Horizontal
4	3395.0000	44.50	28.68	-47.35	-69.43	-13.00	56.43	Horizontal
5	4074.0000	44.55	29.60	-47.53	-68.64	-13.00	55.64	Horizontal
6	4753.0000	44.14	30.81	-46.95	-67.26	-13.00	54.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.0000	46.30	24.22	-49.05	-73.79	-13.00	60.79	Vertical
2	2037.0000	45.56	26.29	-48.49	-71.90	-13.00	58.90	Vertical
3	2716.0000	44.93	27.92	-47.78	-70.19	-13.00	57.19	Vertical
4	3395.0000	44.57	28.68	-47.35	-69.36	-13.00	56.36	Vertical
5	4074.0000	44.78	29.60	-47.53	-68.41	-13.00	55.41	Vertical
6	4753.0000	44.38	30.81	-46.95	-67.02	-13.00	54.02	Vertical



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Test Band = n71B_TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.18	45.82	-50.10	24.44	-75.09	-13.00	62.09	Horizontal
2	1992.27	45.64	-49.68	26.67	-72.63	-13.00	59.63	Horizontal
3	2656.36	44.47	-49.07	27.68	-72.19	-13.00	59.19	Horizontal
4	3320.45	44.04	-48.64	28.63	-71.23	-13.00	58.23	Horizontal
5	3984.54	43.12	-48.36	29.38	-71.12	-13.00	58.12	Horizontal
6	4648.63	43.84	-48.06	30.66	-68.82	-13.00	55.82	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.18	45.77	-50.10	24.44	-75.14	-13.00	62.14	Vertical
2	1992.27	44.27	-49.68	26.67	-74.00	-13.00	61.00	Vertical
3	2656.36	44.93	-49.07	27.68	-71.73	-13.00	58.73	Vertical
4	3320.45	44.29	-48.64	28.63	-70.98	-13.00	57.98	Vertical
5	3984.54	42.73	-48.36	29.38	-71.51	-13.00	58.51	Vertical
6	4648.63	43.71	-48.06	30.66	-68.95	-13.00	55.95	Vertical



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Test Band = n71B_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343.18	45.25	-50.08	24.41	-75.67	-13.00	62.67	Horizontal
2	2014.77	44.92	-49.64	26.72	-73.26	-13.00	60.26	Horizontal
3	2686.36	44.19	-49.02	27.75	-72.35	-13.00	59.35	Horizontal
4	3357.95	43.94	-48.66	28.64	-71.34	-13.00	58.34	Horizontal
5	4029.54	43.96	-48.32	29.45	-70.17	-13.00	57.17	Horizontal
6	4701.13	42.74	-48.08	30.78	-69.82	-13.00	56.82	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343.18	45.51	-50.08	24.41	-75.41	-13.00	62.41	Vertical
2	2014.77	44.62	-49.64	26.72	-73.56	-13.00	60.56	Vertical
3	2686.36	44.31	-49.02	27.75	-72.23	-13.00	59.23	Vertical
4	3357.95	44.21	-48.66	28.64	-71.07	-13.00	58.07	Vertical
5	4029.54	43.43	-48.32	29.45	-70.70	-13.00	57.70	Vertical
6	4701.13	42.97	-48.08	30.78	-69.59	-13.00	56.59	Vertical



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Test Band = n71B_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.18	45.22	-50.06	24.38	-75.72	-13.00	62.72	Horizontal
2	2037.27	44.67	-49.59	26.75	-73.44	-13.00	60.44	Horizontal
3	2716.36	44.11	-48.95	27.82	-72.28	-13.00	59.28	Horizontal
4	3395.45	44.24	-48.69	28.66	-71.05	-13.00	58.05	Horizontal
5	4074.54	43.29	-48.28	29.54	-70.72	-13.00	57.72	Horizontal
6	4753.63	42.94	-48.05	30.91	-69.46	-13.00	56.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.18	45.64	-50.06	24.38	-75.30	-13.00	62.30	Vertical
2	2037.27	44.22	-49.59	26.75	-73.89	-13.00	60.89	Vertical
3	2716.36	44.08	-48.95	27.82	-72.31	-13.00	59.31	Vertical
4	3395.45	43.84	-48.69	28.66	-71.45	-13.00	58.45	Vertical
5	4074.54	43.31	-48.28	29.54	-70.70	-13.00	57.70	Vertical
6	4753.63	42.81	-48.05	30.91	-69.59	-13.00	56.59	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 (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N71	15	20	DFT-PI2BPSK	M	100@0	VN	NT	-15.40	-0.02	PASS
N71	15	20	DFT-PI2BPSK	M	100@0	VL	NT	-14.90	-0.02	PASS
N71	15	20	DFT-PI2BPSK	M	100@0	VH	NT	-12.60	-0.02	PASS
N71	15	20	CP-QPSK	M	106@0	VN	NT	-6.60	-0.01	PASS
N71	15	20	CP-QPSK	M	106@0	VL	NT	-5.80	-0.01	PASS
N71	15	20	CP-QPSK	M	106@0	VH	NT	-6.80	-0.01	PASS



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Frequency Error VS. Temperature

Temperature

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(℃)	Deviation(Hz)	Deviation (ppm)	Verdict
N71	15	20	DFT-PI2BPSK	M	100@0	NV	-20	-12.600000	-0.018516	PASS
N71	15	20	DFT-PI2BPSK	M	100@0	NV	50	-11.700000	-0.017193	PASS
N71	15	20	DFT-PI2BPSK	M	100@0	NV	40	-13.100000	-0.019251	PASS
N71	15	20	DFT-PI2BPSK	M	100@0	NV	10	-13.300000	-0.019544	PASS
N71	15	20	DFT-PI2BPSK	M	100@0	NV	-10	-10.700000	-0.015724	PASS
N71	15	20	DFT-PI2BPSK	M	100@0	NV	-30	-14.800000	-0.021749	PASS
N71	15	20	DFT-PI2BPSK	M	100@0	NV	30	-13.400000	-0.019691	PASS
N71	15	20	DFT-PI2BPSK	M	100@0	NV	0	-19.200000	-0.028215	PASS
N71	15	20	DFT-PI2BPSK	M	100@0	NV	20	-12.700000	-0.018663	PASS
N71	15	20	CP-QPSK	M	106@0	NV	0	-10.000000	-0.014695	PASS
N71	15	20	CP-QPSK	M	106@0	NV	10	-8.800000	-0.012932	PASS
N71	15	20	CP-QPSK	M	106@0	NV	-10	-8.100000	-0.011903	PASS
N71	15	20	CP-QPSK	M	106@0	NV	-20	-11.100000	-0.016312	PASS
N71	15	20	CP-QPSK	M	106@0	NV	50	-6.800000	-0.009993	PASS
N71	15	20	CP-QPSK	M	106@0	NV	30	-8.600000	-0.012638	PASS
N71	15	20	CP-QPSK	M	106@0	NV	-30	-7.300000	-0.010727	PASS
N71	15	20	CP-QPSK	M	106@0	NV	40	-9.300000	-0.013666	PASS
N71	15	20	CP-QPSK	M	106@0	NV	20	-8.400000	-0.012344	PASS

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