

Test Band = DC_41A_n78A 3700M-3800M ANT4_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	48.09	-41.76	36.39	-52.54	-13.00	39.54	263	359	Horizontal
2	9164.1667	47.62	-38.39	38.58	-47.45	-13.00	34.45	265	132	Horizontal
3	10965.27	39.07	-35.62	39.56	-52.25	-13.00	39.25	241	171	Horizontal
4	13608.9167	43.47	-34.45	39.97	-46.28	-13.00	33.28	185	3	Horizontal
5	14620.36	39.02	-34.12	39.58	-50.79	-13.00	37.79	266	279	Horizontal
6	17784.375	41.22	-30.91	41.74	-43.21	-13.00	30.21	293	332	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	7310.18	48.53	-41.76	36.39	-52.10	-13.00	39.10	265	212	Vertical
2	9283	48.00	-38.36	38.57	-47.05	-13.00	34.05	241	227	Vertical
3	10965.27	38.89	-35.62	39.56	-52.43	-13.00	39.43	178	359	Vertical
4	13089.5	43.56	-34.65	39.65	-46.69	-13.00	33.69	145	360	Vertical
5	14620.36	38.88	-34.12	39.58	-50.93	-13.00	37.93	263	308	Vertical
6	17792.0417	41.43	-30.89	41.77	-42.96	-13.00	29.96	298	279	Vertical



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t (86-512) 62992980 www.sgs.com.cn
 s (86-512) 62992980 sgs.china@sgs.com

Test Band = DC_41A_n78A 3700M-3800M ANT4_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.18	47.89	-41.95	36.45	-52.87	-13.00	39.87	265	224	Horizontal
2	9198.6667	47.01	-38.23	38.58	-47.90	-13.00	34.90	241	52	Horizontal
3	11115.27	40.42	-35.15	39.48	-50.50	-13.00	37.50	175	3	Horizontal
4	13609.875	43.43	-34.46	39.97	-46.32	-13.00	33.32	263	39	Horizontal
5	14820.36	38.84	-33.93	39.38	-50.97	-13.00	37.97	201	80	Horizontal
6	17962.625	40.60	-31.26	42.45	-43.47	-13.00	30.47	185	359	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	7410.18	48.23	-41.95	36.45	-52.53	-13.00	39.53	269	27	Vertical
2	9412.375	46.95	-37.71	38.56	-47.46	-13.00	34.46	284	227	Vertical
3	11115.27	40.49	-35.15	39.48	-50.43	-13.00	37.43	174	119	Vertical
4	13588.7917	43.52	-34.36	39.95	-46.15	-13.00	33.15	145	174	Vertical
5	14820.36	40.41	-33.93	39.38	-49.40	-13.00	36.40	263	357	Vertical
6	17872.5417	41.56	-31.10	42.09	-42.71	-13.00	29.71	324	360	Vertical



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t (86-512) 62992980 www.sgs.com.cn
 f (86-512) 62992980 sgs.china@sgs.com

Test Band = DC_41A_n78A 3700M-3800M ANT4_TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.18	46.82	-41.55	36.52	-53.47	-13.00	40.47	263	253	Horizontal
2	9281.0833	48.08	-38.36	38.57	-46.97	-13.00	33.97	254	26	Horizontal
3	11265.27	41.39	-35.16	39.33	-49.69	-13.00	36.69	142	253	Horizontal
4	13671.2083	43.32	-34.75	40.00	-46.69	-13.00	33.69	296	359	Horizontal
5	15020.36	40.73	-34.30	39.17	-49.66	-13.00	36.66	201	52	Horizontal
6	17904.1667	40.77	-31.19	42.22	-43.46	-13.00	30.46	188	360	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	7510.18	47.25	-41.55	36.52	-53.04	-13.00	40.04	362	280	Vertical
2	9283.9583	47.87	-38.36	38.57	-47.18	-13.00	34.18	263	360	Vertical
3	11265.27	41.07	-35.16	39.33	-50.01	-13.00	37.01	254	240	Vertical
4	13102.9167	43.84	-34.62	39.66	-46.38	-13.00	33.38	142	145	Vertical
5	15020.36	40.45	-34.30	39.17	-49.94	-13.00	36.94	232	119	Vertical
6	17905.125	41.39	-31.19	42.22	-42.84	-13.00	29.84	204	212	Vertical



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t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

Test Band = DC_41A_n78A 3700M-3800M ANT5_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5898.1667	55.90	-43.04	33.87	-48.52	-13.00	35.52	142	168	Horizontal
2	7310.18	48.61	-41.76	36.39	-52.02	-13.00	39.02	263	127	Horizontal
3	9173	48.82	-38.35	38.58	-46.21	-13.00	33.21	284	270	Horizontal
4	10965.27	41.72	-35.62	39.56	-49.60	-13.00	36.60	176	56	Horizontal
5	14620.36	39.91	-34.13	39.58	-49.90	-13.00	36.90	251	219	Horizontal
6	17694.3333	47.61	-31.10	41.38	-37.37	-13.00	24.37	144	238	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	5898.1667	59.50	-43.04	33.87	-44.92	-13.00	31.92	163	288	Vertical
2	7310.18	48.76	-41.76	36.39	-51.87	-13.00	38.87	284	95	Vertical
3	8729.6667	49.58	-39.16	38.30	-46.54	-13.00	33.54	175	75	Vertical
4	10965.27	42.19	-35.62	39.56	-49.13	-13.00	36.13	263	277	Vertical
5	14745	46.94	-34.21	39.46	-43.07	-13.00	30.07	255	24	Vertical
6	17864.6667	42.68	-31.07	42.06	-41.60	-13.00	28.60	144	277	Vertical



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Test Band = DC_41A_n78A 3700M-3800M ANT5_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.18	46.52	-41.95	36.45	-54.24	-13.00	41.24	263	359	Horizontal
2	8382.1667	47.77	-39.81	37.92	-49.38	-13.00	36.38	265	360	Horizontal
3	11115.27	40.15	-35.15	39.48	-50.77	-13.00	37.77	241	360	Horizontal
4	12664	43.54	-35.07	39.26	-47.52	-13.00	34.52	142	353	Horizontal
5	14820.36	39.04	-33.93	39.38	-50.77	-13.00	37.77	282	357	Horizontal
6	17893.625	41.72	-31.16	42.17	-42.53	-13.00	29.53	252	133	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	7410.18	47.83	-41.95	36.45	-52.93	-13.00	39.93	265	360	Vertical
2	9423.875	47.15	-37.76	38.56	-47.31	-13.00	34.31	253	359	Vertical
3	11115.27	40.05	-35.15	39.48	-50.87	-13.00	37.87	255	185	Vertical
4	13633.8333	42.74	-34.57	39.98	-47.11	-13.00	34.11	241	92	Vertical
5	14820.36	40.13	-33.93	39.38	-49.68	-13.00	36.68	142	52	Vertical
6	17780.5417	41.57	-30.91	41.72	-42.88	-13.00	29.88	263	360	Vertical



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 (86-512) 62992980 sgs.china@sgs.com

Test Band = DC_41A_n78A 3700M-3800M ANT5_TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.18	47.33	-41.55	36.52	-52.96	-13.00	39.96	263	175	Horizontal
2	8804.7917	47.00	-38.95	38.39	-48.82	-13.00	35.82	296	228	Horizontal
3	11265.27	39.46	-35.16	39.33	-51.62	-13.00	38.62	255	188	Horizontal
4	13225.5833	43.21	-34.82	39.74	-47.13	-13.00	34.13	201	66	Horizontal
5	15020.36	41.07	-34.30	39.17	-49.32	-13.00	36.32	145	4	Horizontal
6	17912.7917	41.68	-31.20	42.25	-42.53	-13.00	29.53	268	27	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	7510.18	46.78	-41.55	36.52	-53.51	-13.00	40.51	201	172	Vertical
2	9284.9167	47.97	-38.36	38.57	-47.08	-13.00	34.08	185	308	Vertical
3	11265.27	42.66	-35.16	39.33	-48.42	-13.00	35.42	263	92	Vertical
4	13574.4167	43.91	-34.30	39.94	-45.70	-13.00	32.70	211	25	Vertical
5	15020.36	40.88	-34.30	39.17	-49.51	-13.00	36.51	152	239	Vertical
6	17850.5	41.77	-31.03	42.00	-42.52	-13.00	29.52	266	294	Vertical



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t (86-512) 62992980 www.sgs.com.cn
 s (86-512) 62992980 sgs.china@sgs.com

Test Band = DC_41A_n78A 3700M-3800M ANT6_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7310.18	48.09	-41.76	36.39	-52.54	-13.00	39.54	263	359	Horizontal
2	9164.1667	47.62	-38.39	38.58	-47.45	-13.00	34.45	265	132	Horizontal
3	10965.27	39.07	-35.62	39.56	-52.25	-13.00	39.25	241	171	Horizontal
4	13608.9167	43.47	-34.45	39.97	-46.28	-13.00	33.28	185	3	Horizontal
5	14620.36	39.02	-34.12	39.58	-50.79	-13.00	37.79	266	279	Horizontal
6	17784.375	41.22	-30.91	41.74	-43.21	-13.00	30.21	293	332	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	7310.18	48.53	-41.76	36.39	-52.10	-13.00	39.10	265	212	Vertical
2	9283	48.00	-38.36	38.57	-47.05	-13.00	34.05	241	227	Vertical
3	10965.27	38.89	-35.62	39.56	-52.43	-13.00	39.43	178	359	Vertical
4	13089.5	43.56	-34.65	39.65	-46.69	-13.00	33.69	145	360	Vertical
5	14620.36	38.88	-34.12	39.58	-50.93	-13.00	37.93	263	308	Vertical
6	17792.0417	41.43	-30.89	41.77	-42.96	-13.00	29.96	298	279	Vertical



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t (86-512) 62992980 www.sgs.com.cn
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Test Band = DC_41A_n78A 3700M-3800M ANT6_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7410.18	47.89	-41.95	36.45	-52.87	-13.00	39.87	265	224	Horizontal
2	9198.6667	47.01	-38.23	38.58	-47.90	-13.00	34.90	241	52	Horizontal
3	11115.27	40.42	-35.15	39.48	-50.50	-13.00	37.50	175	3	Horizontal
4	13609.875	43.43	-34.46	39.97	-46.32	-13.00	33.32	263	39	Horizontal
5	14820.36	38.84	-33.93	39.38	-50.97	-13.00	37.97	201	80	Horizontal
6	17962.625	40.60	-31.26	42.45	-43.47	-13.00	30.47	185	359	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	7410.18	48.23	-41.95	36.45	-52.53	-13.00	39.53	269	27	Vertical
2	9412.375	46.95	-37.71	38.56	-47.46	-13.00	34.46	284	227	Vertical
3	11115.27	40.49	-35.15	39.48	-50.43	-13.00	37.43	174	119	Vertical
4	13588.7917	43.52	-34.36	39.95	-46.15	-13.00	33.15	145	174	Vertical
5	14820.36	40.41	-33.93	39.38	-49.40	-13.00	36.40	263	357	Vertical
6	17872.5417	41.56	-31.10	42.09	-42.71	-13.00	29.71	324	360	Vertical



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 (86-512) 62992980 sgs.china@sgs.com

Test Band = DC_41A_n78A 3700M-3800M ANT6_TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7510.18	46.82	-41.55	36.52	-53.47	-13.00	40.47	263	253	Horizontal
2	9281.0833	48.08	-38.36	38.57	-46.97	-13.00	33.97	254	26	Horizontal
3	11265.27	41.39	-35.16	39.33	-49.69	-13.00	36.69	142	253	Horizontal
4	13671.2083	43.32	-34.75	40.00	-46.69	-13.00	33.69	296	359	Horizontal
5	15020.36	40.73	-34.30	39.17	-49.66	-13.00	36.66	201	52	Horizontal
6	17904.1667	40.77	-31.19	42.22	-43.46	-13.00	30.46	188	360	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	7510.18	47.25	-41.55	36.52	-53.04	-13.00	40.04	362	280	Vertical
2	9283.9583	47.87	-38.36	38.57	-47.18	-13.00	34.18	263	360	Vertical
3	11265.27	41.07	-35.16	39.33	-50.01	-13.00	37.01	254	240	Vertical
4	13102.9167	43.84	-34.62	39.66	-46.38	-13.00	33.38	142	145	Vertical
5	15020.36	40.45	-34.30	39.17	-49.94	-13.00	36.94	232	119	Vertical
6	17905.125	41.39	-31.19	42.22	-42.84	-13.00	29.84	204	212	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

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
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	5.700000	0.001520	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	2.600000	0.000693	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	0.500000	0.000133	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VH	NT	4.300000	0.001147	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VN	NT	1.400000	0.000373	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	VL	NT	5.500000	0.001467	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.100000	0.002427	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	8.900000	0.002373	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	5.800000	0.001547	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	4.100000	0.001093	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	3.200000	0.000853	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	6.500000	0.001733	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	4.100000	0.001093	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	4.600000	0.001227	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	5.500000	0.001467	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-30	-0.200000	-0.000053	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-20	13.200000	0.003520	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	-10	2.000000	0.000533	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	0	7.500000	0.002000	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	10	4.800000	0.001280	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	20	7.700000	0.002053	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	30	3.700000	0.000987	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	40	-0.900000	-0.000240	PASS
N78-3700-3800	30	100	CP-QPSK	M	Outer_Full	NV	50	13.400000	0.003573	PASS

---End of Attachment---



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