

**Macromate**<http://www.macromate.com.tw>

宇泰國際股份有限公司

台北縣汐止鎮大同路一段 179 號 8 樓之 2
TEL:886-2-2647-9353 FAX:886-2-2647-9373**Macromate Corp.**8F, Universal Center, No.179, Sec.1,
Ta-Tung Road, Hsi-Chih, Taipei Hsien, Taiwan, R.O.C.

Federal Communication Commission
Authorization & Evaluation Division
7435 Oakland Mills Road
Columbia, Maryland 21046

FCC ID: LZU-MAP-811E and FCC ID: LZU-MAP-811

AUTHORIZATION AGREEMENT

To whom it may concern

I, an officer of Macromate Corp. appoint Training Research Co., Ltd. to act as the authorized representative in the preparation of applications for registration of equipment under Part 15 of Rules and Regulations of the Federal Communications Commission. I certify that the information provided to Training research Co., Ltd. properly describes the device or system for which equipment authorization is requested.

APPLICANT ANTI-DRUG ABUSE CERTIFICATION

The applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits, that includes FCC benefits, pursuant to section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853 (a), or, in the case of a non-individual applicant (e.g. corporation, partnership or other unincorporated association) no party to the application is subject to a denial of federal benefits, that includes FCC benefits, pursuant to that section. For the definition of a "party" for these purposes see 47 CFR 1.2002(b).

This Authorization, dated this 23rd day of March, 2001. Expires until to grant a application.

By

Signature

PM Manager

Printed/Title

Applicant: Macromate Corp.*(Must agree with section I on FCC Form 731 - Applicant's Full Business Name)*

HILTRON

160 NETWORK ANALYZER

Page

MODEL: 50803000031 DATE: 03/09 2001
 DEVICE ID: 002 OPERATOR: ARVIN

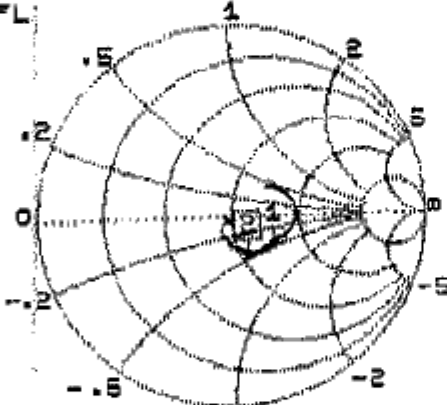
SWEEP DATA
 START: 2.2000 GHz GATE START: -
 STOP: 2.7000 GHz GATE STOP: -
 STEP: 0.0030 GHz GATE: -
 WINDOW: -

ERROR CORR: REFL ONLY
 AVERAGING: 1 PTS
 IF BNDWIDTH: REDUCED

PARAMETER:
 NORMALIZATION:
 REFERENCE PLANE:
 SMOOTHING:
 DELAY APERTURE:

CH2	CH4
S11	S11
OFF	OFF
0.0000 mm	0.0000 mm
0.0 PERCENT	0.0 PERCENT

S11 FWD REFL
 IMPEDANCE



CH 4 ~ S11
 REF. PLANE
 0.0000 mm

MARKER 2
 2.5000 GHz
 1.556 U

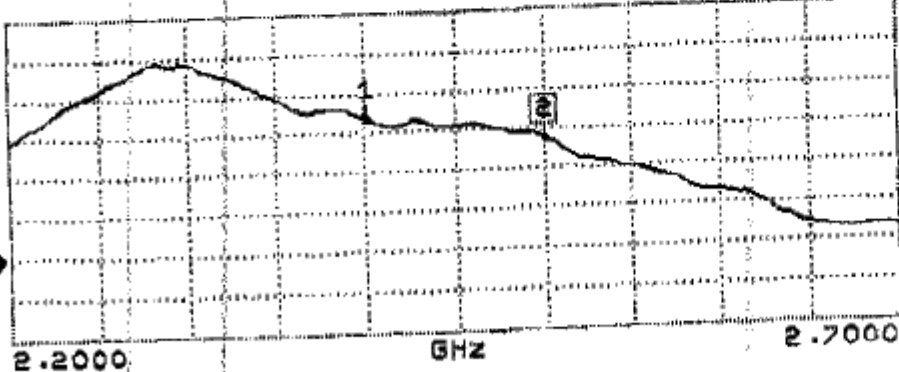
MARKER TO MAX
 MARKER TO MIN

1 2.4010 GHz
 1 1.672 U

2.2000 - 2.7000 GHz

S11 FORWARD REFLECTION

SWR REF=1.000U 200.000mU/DIU



HILTRON

160 NETWORK ANALYZER

Page

MODEL: 50803000021
 DEVICE ID: 003

DATE: 03/09/2001
 OPERATOR: ARVIN

SWEEP DATA

START: 2.2000 GHz
 STOP: 2.7000 GHz
 STEP: 0.0030 GHz

GATE START: -
 GATE STOP: -
 GATE: -
 WINDOW: -

ERROR CORR: REFL ONLY
 AVERAGING: 1 PTS
 IF BNDWTH: REDUCED

PARAMETER:
 NORMALIZATION:
 REFERENCE PLANE:
 SMOOTHING:
 DELAY APERTURE:

-----CH2-----
 S11
 OFF
 0.0000 mm
 0.0 PERCENT

-----CH4-----
 S11
 OFF
 0.0000 mm
 0.0 PERCENT

MARKERS:

MKR #	FREQ GHz	RESISTANCE OHMS	REACTANCE OHMS	SWR UNITS	PHASE Deg
1	2.4010	45.563E+00	14.819E+00	1.381E+00	97.855
2	2.5000	55.913E+00	7.673E+00	1.201E+00	48.237

FREQUENCY POINTS:

PNT #	FREQ GHz	RESISTANCE OHMS	REACTANCE OHMS	SWR UNITS	PHASE Deg
1	2.2000	41.662E+00	2.129E+00	1.207E+00	164.347
2	2.2240	39.554E+00	2.295E+00	1.271E+00	166.144
3	2.2480	38.010E+00	4.136E+00	1.336E+00	158.277
4	2.2720	36.583E+00	6.176E+00	1.410E+00	151.201
5	2.2960	37.257E+00	8.812E+00	1.429E+00	139.568
6	2.3200	38.644E+00	12.586E+00	1.467E+00	123.976
7	2.3440	42.078E+00	13.677E+00	1.409E+00	111.632
8	2.3680	43.124E+00	11.703E+00	1.338E+00	113.274
9	2.3920	44.094E+00	14.728E+00	1.400E+00	102.955
10	2.4160	46.868E+00	14.672E+00	1.362E+00	93.438
11	2.4400	50.373E+00	13.826E+00	1.316E+00	80.611
12	2.4640	52.344E+00	14.037E+00	1.320E+00	72.709
13	2.4880	55.937E+00	10.182E+00	1.249E+00	54.262
14	2.5120	54.654E+00	5.532E+00	1.148E+00	46.897
15	2.5360	51.611E+00	5.880E+00	1.127E+00	71.365
16	2.5600	52.825E+00	6.515E+00	1.148E+00	62.934
17	2.5840	55.030E+00	6.587E+00	1.171E+00	49.048
18	2.6080	55.677E+00	1.928E+00	1.120E+00	17.714
19	2.6320	52.686E+00	-1.995E+00	1.067E+00	-35.487
20	2.6560	48.083E+00	-2.358E+00	1.064E+00	-127.738
21	2.6800	46.786E+00	438.588E-03	1.069E+00	171.969
22	2.7000	47.195E+00	488.982E-03	1.060E+00	169.824