

FCC 15 SUBPART C
EMI MEASUREMENT AND TEST REPORT
For
AMBIT Microsystems Corporation

4-1, Ming Shen Street, Tu Chen Industrial District.
Tu Chen, Taipei Hsien 236, Taiwan, R.O.C.

FCC ID: MCLT60H418

May 29, 2002

| | |
|--|---|
| This Report Concerns: <input checked="" type="checkbox"/> Original Report | Equipment Type: WLAN 802.11b Module |
| Test Engineer: Jeff Lee | |
| Test Date: May 18, 2002 | |
| Reviewed By: Benjamin Jin | |
| Prepared By: Bay Area Compliance Laboratory Corporation 230 Commercial Street Sunnyvale, CA 94085 Tel: (408) 732-9162 Fax: (408) 732 9164 | |

Note: This test report is specially limited to the above client company and the product model only. It may not be duplicated without prior written consent of Bay Area Compliance Laboratory Corporation. This report **must not** be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

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1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

| | |
|----------------------|---------------------------------------|
| Applicant: | AMBIT Microsystems Corporation |
| Model Name: | T60H418 |
| Product Description: | WLAN 802.11b Module |
| Dimension: | 2.4" L x 1.7" W approximately |
| FCC ID: | MCLT60H418 |
| TX Frequency: | 2400-2497MHz ISM Band |
| Max. Output Power: | 8.20dBm (6.61mW) |
| Power Supply: | Get power from Host PC P/S, HP F1781S |

* The test data in this test report was good for the test sample only. It may have deviation for other test samples.

1.2 Objective

This type approval report is prepared on behalf of *Ambit Microsystems Corporation* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The objective of the manufacturer is to demonstrate compliance with FCC rules for Output Power, Antenna Requirements, 6 dB Bandwidth, power density, 100 kHz Bandwidth of Band Edges Measurement, Conducted and Spurious Radiated Emission, and processing gain.

1.3 Related Submittal(s)/Grant(s)

No Related Submittal(s).

1.4 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-1992, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory Corporation. The radiated testing was performed at an antenna-to-EUT distance of 3 Meters.

1.5 Test Facility

The Open Area Test site used by Bay Area Compliance Laboratory Corporation to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Sunnyvale, California, USA.

Test site at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI).

The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-1992.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corporation is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (NVLAP). The scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices, IEC/CISPR 22: 1998, and AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment test methods under NVLAP Lab Code 200167-0.

1.6 Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Cal. Due Date |
|-------------------|----------------------|------------------|---------------|---------------|
| HP | Spectrum Analyzer | 8568B | 2610A02165 | 12/6/02 |
| HP | Spectrum Analyzer | 8593B | 2919A00242 | 12/20/02 |
| HP | Amplifier | 8349B | 2644A02662 | 12/20/02 |
| HP | Quasi-Peak Adapter | 85650A | 917059 | 12/6/02 |
| HP | Amplifier | 8447E | 1937A01046 | 12/6/02 |
| A.H. System | Horn Antenna | SAS0200/571 | 261 | 12/27/02 |
| Com-Power | Log Periodic Antenna | AL-100 | 16005 | 11/2/02 |
| Com-Power | Biconical Antenna | AB-100 | 14012 | 11/2/02 |
| Solar Electronics | LISN | 8012-50-R-24-BNC | 968447 | 12/28/02 |
| Com-Power | LISN | LI-200 | 12208 | 12/20/02 |
| Com-Power | LISN | LI-200 | 12005 | 12/20/02 |
| BACL | Data Entry Software | DES1 | 0001 | 12/20/02 |

* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. certifies that all calibration has been performed using suitable standards traceable to the NATIONAL INSTITUTE of STANDARDS and TECHNOLOGY (NIST).

1.7 Host System Configuration List and Details

| Manufacturer | Description | Model | Serial Number | FCC ID |
|--------------|-------------------|-----------|---------------|--------|
| AMBIT | Motherboard | N/A | N/A | DoC |
| Samsung | LCD | LIN141XF | N/A | DoC |
| SONY | 3.5" Floppy Drive | MPF920-F | N/A | DoC |
| HP | Power Sypply | HP F1781A | 21104338CB | DoC |
| Toshiba | Hard Drive | N/A | N/A | DoC |
| QSI | CD-Rom | SCR-242 | N/A | DoC |

1.8 Local Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number | FCC ID |
|--------------|-------------|--------|----------------|--------------|
| HP | Notebook PC | KT1 | QCHCMF20800115 | DoC |
| Citizen | Printer | LSP-10 | 5047999-82 | DLK66TLSP-10 |
| EVERX | Modem | EV-945 | N/A | E3E5UVEV-945 |

1.9 External I/O Cabling List and Details

| Cable Description | Length (M) | Port/From | To |
|------------------------|------------|--------------------|---------|
| Shielded Serial Cable | 1.5 | Serial Port/Host | Modem |
| Shielded Printer Cable | 2.0 | Parallel Port/Host | Printer |

2 - SYSTEM TEST CONFIGURATION

2.1 Justification

The host system was configured for testing in a typical fashion (as a normally used by a typical user).

The EUT was tested in the normal (native) operating mode to represent *worst-case* results during the final qualification test.

2.2 EUT Exercise Software

The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The test software, terminal.exe, provided by the customer, is started the Windows 98 terminal program under the Windows 98 operating system. Once loaded, the program sequentially exercises each system component.

The sequence used is as follows:

1. Lines of Hs scroll across the notebook monitor.
2. The modem(s) receives Hs.
3. The printer output Hs.

This process is continuous throughout all tests.

2.3 Special Accessories

As shown in section 2.5, all interface cables used for compliance testing are shielded as normally supplied by INMAC and their respective support equipment manufacturers. The host pc and other peripherals featured shielded metal connectors.

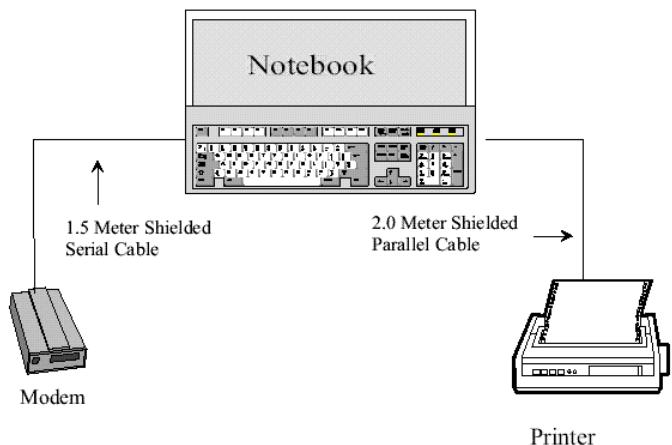
2.4 Schematics / Block Diagram

Appendix A contains a copy of the EUT's schematics diagram as reference.

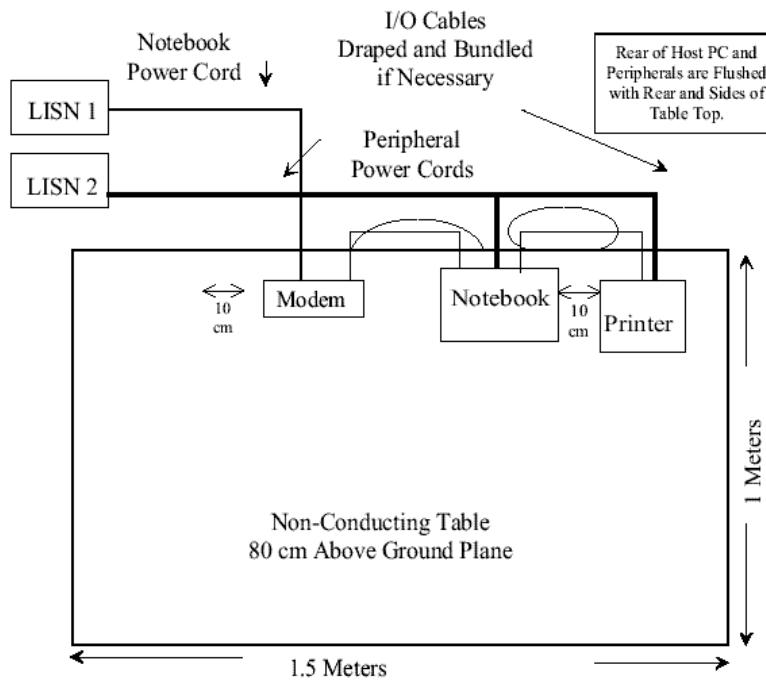
2.5 Equipment Modifications

No modifications were made by BACL Corporation to ensure the EUT to comply with the applicable limits and requirements.

2.6 Configuration of Test System



2.7 Test Setup Block Diagram



3 - SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|-----------------|---|-----------|
| § 15.205 | Restricted Bands | Compliant |
| § 2.1091 | RF Safety Requirements | Compliant |
| §15.203 | Antenna Requirement | Compliant |
| §15.207 (a) | Conducted Emission | Compliant |
| §15.209 (a) | Radiated Emission | Compliant |
| §15.209 (f) | Spurious Emission | Compliant |
| §15.247 (a) (2) | 6 dB Bandwidth | Compliant |
| §15.247 (b) (2) | Peak Output Power | Compliant |
| §15.247 (b) (4) | RF Exposure | Compliant |
| § 15.247 (c) | 100 kHz Bandwidth of Frequency Band Edges | Compliant |
| §15.247 (d) | Peak Power Spectral Density | Compliant |
| §15.247 (e) | Processing Gain | Compliant |

4 - PEAK OUTPUT POWER MEASUREMENT

4.1 Standard Applicable

According to §15.247(b) (2), for all direct sequence systems, the maximum peak output power of the intentional radiator shall not exceed 1 Watt.

4.2 Measurement Procedure

1. Place the EUT on the turntable and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

4.3 Measurement Result

Please refer to the attached pictures for more information.

| Frequency (MHz) | Output Power in dBm | Output Power in mW | Standard | Result |
|----------------------------|---------------------|--------------------|----------|-----------|
| Port 1 with B24-18 Antenna | | | | |
| 2413.50 | 7.55 | 5.69 | ≤ 1W | Compliant |
| 2438.17 | 7.40 | 5.50 | ≤ 1W | Compliant |
| 2464.20 | 7.19 | 5.24 | ≤ 1W | Compliant |
| Port 2 with B24-18 Antenna | | | | |
| 2413.50 | 7.56 | 5.70 | ≤ 1W | Compliant |
| 2438.17 | 7.31 | 5.38 | ≤ 1W | Compliant |
| 2464.20 | 7.17 | 5.21 | ≤ 1W | Compliant |
| Port 1 with B24-19 Antenna | | | | |
| 2413.50 | 7.32 | 5.40 | ≤ 1W | Compliant |
| 2438.17 | 8.20 | 6.61 | ≤ 1W | Compliant |
| 2464.20 | 7.19 | 5.24 | ≤ 1W | Compliant |
| Port 2 with B24-19 Antenna | | | | |
| 2413.50 | 7.37 | 5.46 | ≤ 1W | Compliant |
| 2438.17 | 7.47 | 5.58 | ≤ 1W | Compliant |
| 2464.20 | 8.12 | 6.49 | ≤ 1W | Compliant |

4.4 Test Equipment

| Manufacturer | Model No. | Serial No. | Calibration Due Date |
|--------------|-----------|------------|----------------------|
| Agilent | E4419b | GB40202891 | 4/8/03 |
| Agilent | E4412a | US38486529 | 4/8/03 |









5 - SPURIOUS EMISSION

5.1 Standard Applicable

According to §15.209 (f) and §15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in §15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in §15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit.

5.2 Measurement Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 4 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the SA on Max-Hold Mode, and then keep the EUT in transmitting mode. Record all the signals from each channel until each one has been recorded.
4. Set the SA on View mode and then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

5.3 Measurement Data

Please refer to the appendings for more information.

ATTEN 30dB
RL 20.0 dBm

10dB/

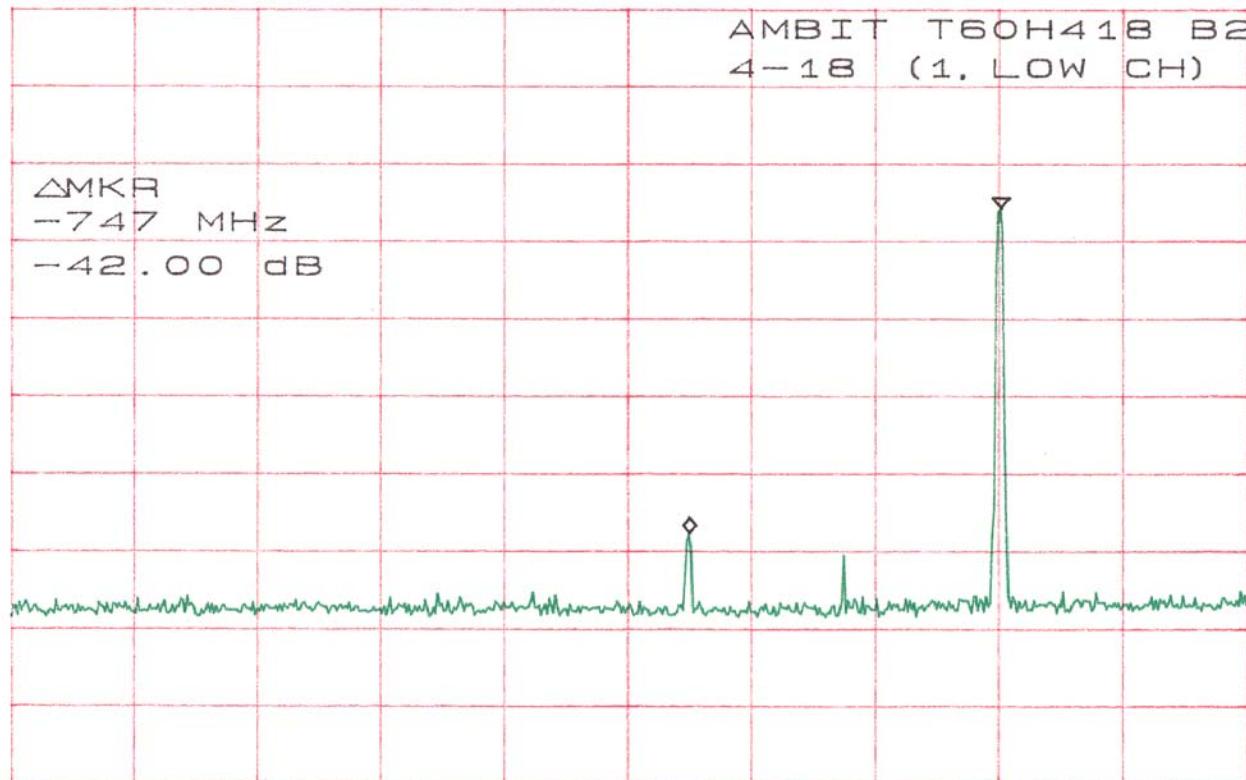
ΔMKR -42.00 dB
-747MHz

AMBIT T60H418 B2
4-18 (1. LOW CH)

ΔMKR
-747 MHz
-42.00 dB

START 30MHz
*RBW 100kHz

STOP 3.000GHz
*VBW 100kHz *SWP 10.0sec



ATTEN 30dB
RL 20.0dBm

10dB/

MKR -48.50dBm
24.05GHz

AMBIT T60H418 B2
4-18 (1, LOW CH)

MKR
24.05 GHz
-48.50 dBm

START 3.000GHz
*RBW 100kHz

STOP 25.000GHz
VBW 100kHz *SWP 10.0sec

ATTEN 30dB
RL 20.0dBm

10dB/

ΔMKR -37.50dB
-747MHz

AMBIT T60H418 B2
4-18 (1, MID CH)

□ ΔMKR
-747 MHz
-37.50 dB

START 30MHz
*RBW 100kHz

STOP 3.000GHz
VBW 100kHz
*SWP 10.0sec

ATTEN 30dB
RL 20.0dBm

10dB/

MKR -49.17dBm
24.05GHz

AMBIT T60H418 B2
4-18 (1, MID CH)

D MKR
24.05 GHz
-49.17 dBm

START 3.00GHz

*RBW 100kHz

STOP 25.00GHz

VBW 100kHz

*SWP 10.0sec

ATTEN 30dB
RL 20.0 dBm

10dB/

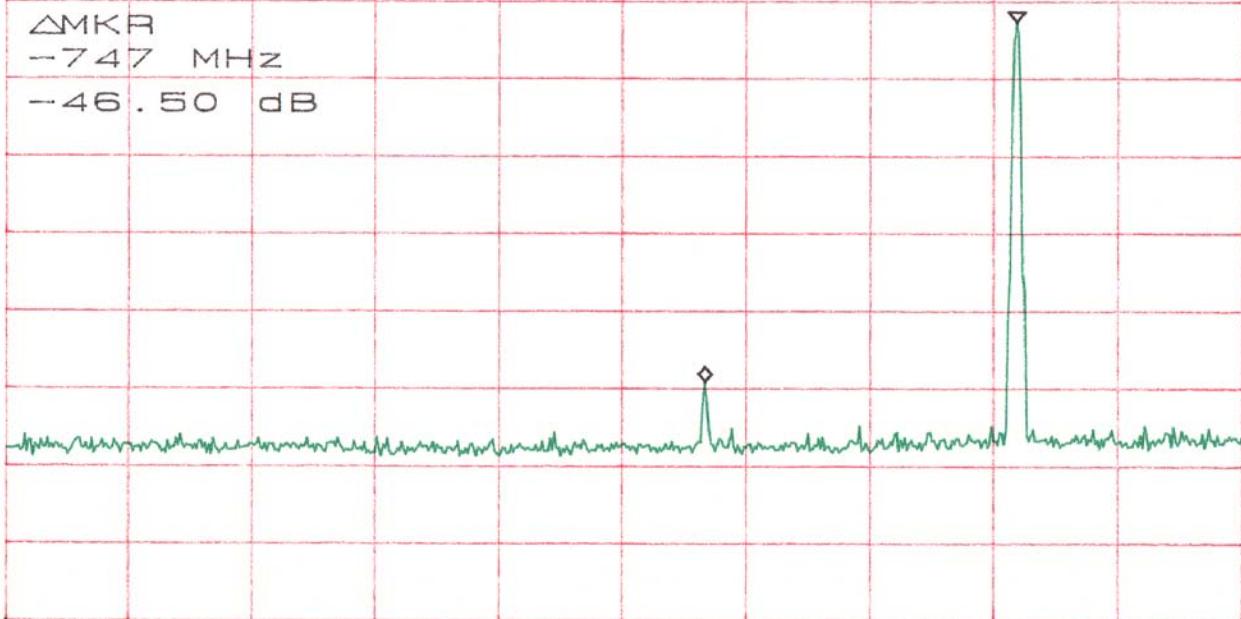
ΔMKR -46.50dB
-747MHz

AMBIT T60H418 B2
4-18 (1. HIGH CH)

ΔMKR
-747 MHz
-46.50 dB

START 30MHz
*RBW 100kHz

STOP 3.000GHz
*VBW 100kHz *SWP 10.0sec



ATTEN 30dB
RL 20.0dBm

10dB/

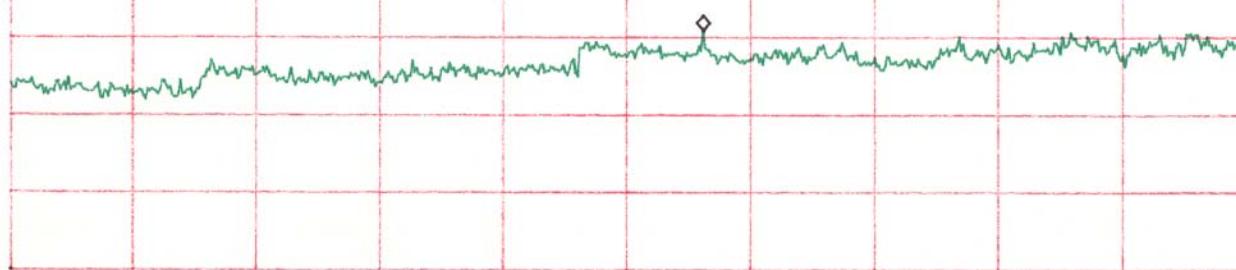
MKR -49.17dBm
15.36GHz

AMBIT T60H418 B2
4-18 (1, HIGH CH)

MKR
15.36 GHz
-49.17 dBm

START 3.000GHz
*RBW 100kHz

STOP 25.000GHz
VBW 100kHz *SWP 10.0sec



ATTEN 30dB
RL 20.0 dBm

10dB/

△MKR -41.00dB
-749MHz

AMBI T60H418 B2
4-19 (1, LOW CH)

△MKR
-749 MHz
-41.00 dB

START 30MHz
*RBW 100kHz

STOP 3.000GHz
*VBW 100kHz
*SWP 10.0sec

ATTEN 30dB
RL 20.0 dBm

10dB/

MKR -47.67 dBm
21.92 GHz

AMBI T60H418 B2
4-19 (1, LOW CH)

MKR
21.92 GHz
-47.67 dBm

START 3.00GHz
*RBW 100kHz

STOP 25.00GHz
*VBW 100kHz *SWP 10.0sec



ATTEN 30dB
RL 20.0 dBm

10dB/

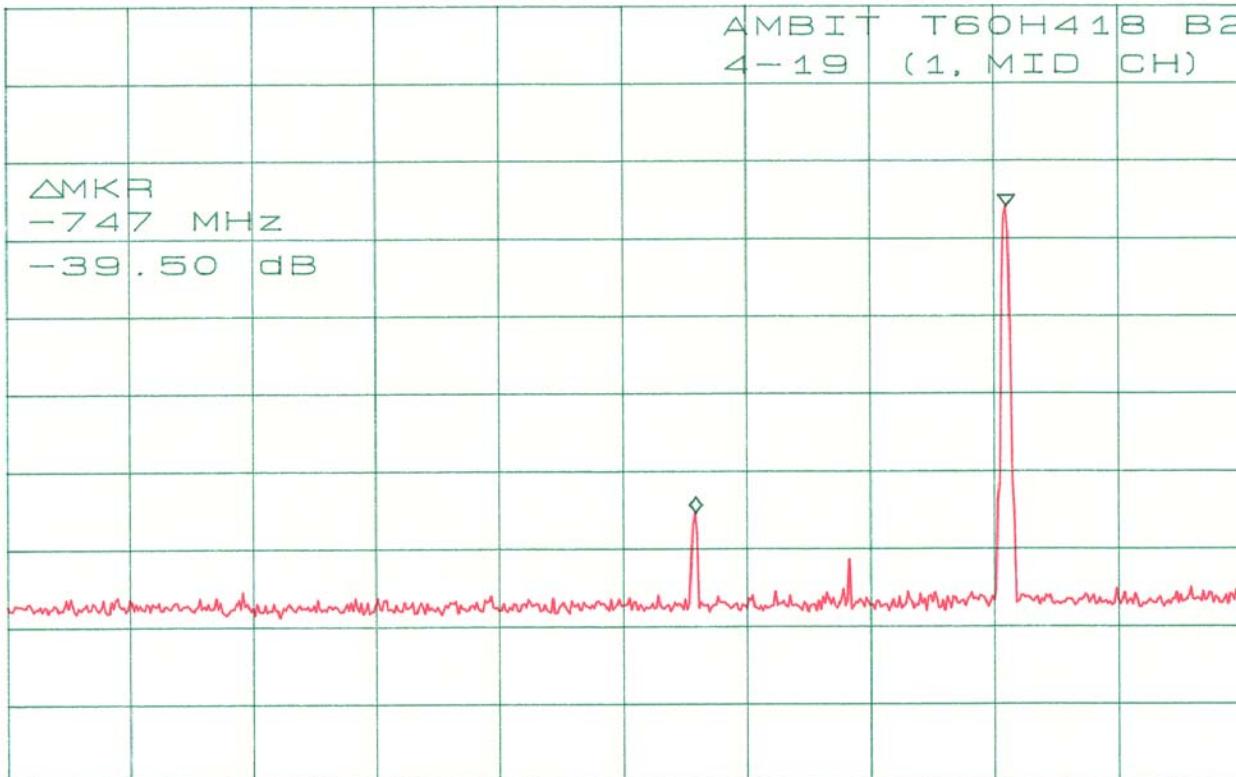
△MKR -39.50dB
-747MHz

AMBI T60H418 B2
4-19 (1, MID CH)

△MKR
-747 MHz
-39.50 dB

START 30MHz
*RBW 100kHz

STOP 3.000GHz
VBW 100kHz *SWP 10.0sec



ATTEN 30dB
RL 20.0 dBm

10dB/

MKR -48.50 dBm
21.92GHz

AMBI T60H418 B2
4-19 (1, MID CH)

MKR
21.92 GHz
-48.50 dBm

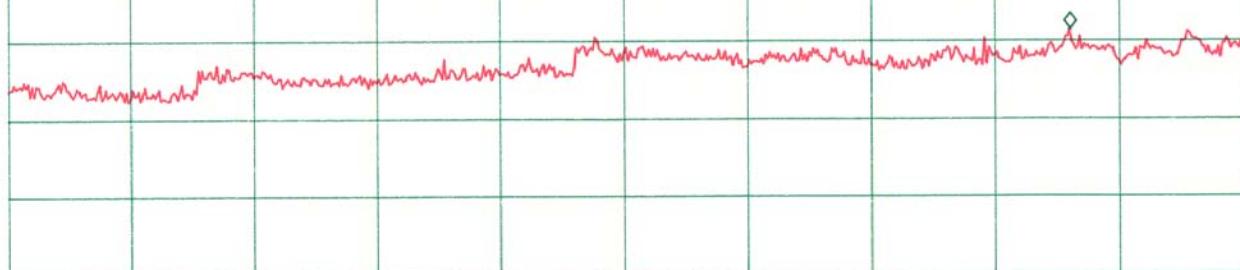
START 3.00GHz

*RBW 100kHz

VBW 100kHz

STOP 25.00GHz

*SWP 10.0sec



ATTEN 30dB
RL 20.0 dBm

10dB/

△MKR -41.50dB
-747MHz

AMBIT T60H418 B2
4-19 (1, HIGH CH)

△MKR
-747 MHz
-41.50 dB

START 30MHz
*RBW 100kHz

STOP 3.000GHz
*VBW 100kHz *SWP 10.0sec

ATTEN 30dB
RL 20.0 dBm

10dB/

MKR -49.00 dBm
24.08 GHz

AMBIT T60H418 B2
4-19 (1. HIGH CH)

MKR
24.08 GHz
-49.00 dBm

START 3.00GHz

*RBW 100kHz

VBW 100kHz

STOP 25.00GHz

*SWP 10.0sec

VBW 100kHz

*ATTEN 0dB

RL -10.0dBm

10dB/

△MKR -34.00dB

-376MHz

AMBIT T60H418 B2
4-18 (2, LOW CH)

△MKR

-376 MHz

-34.00 dB

START 30MHz

*RBW 100kHz

STOP 3.000GHz

VBW 100kHz

*SWP 10.0sec

*ATTEN 0dB

RL -10.0dBm

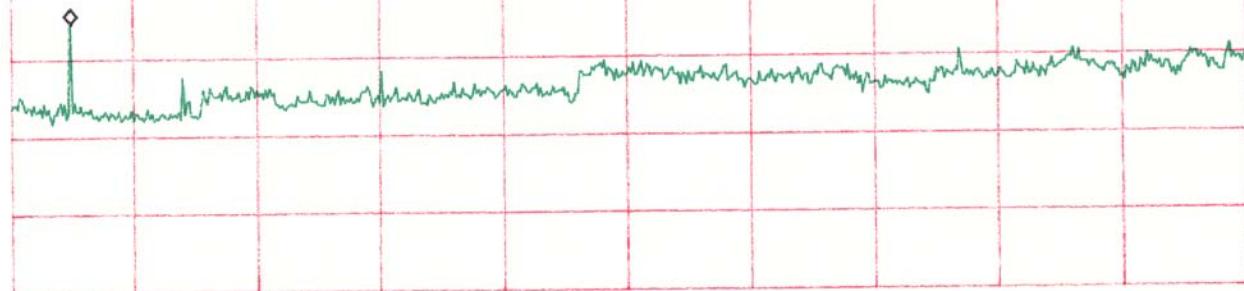
10dB/

MKR -75.33dBm

4.06GHz

AMBIT T60H418 B2
4-18 (2, LOW CH)

MKR
4.06 GHz
-75.33 dBm



START 3.00GHz

*RBW 100kHz

STOP 25.00GHz

VBW 100kHz

*SWP 10.0sec

*ATTEN 0dB

RL -10.0dBm

10dB/

△MKR -33.33dB

-376MHz

AMBIT T60H418 B2
4-18 (2. MID CH)

△MKR
-376 MHz
-33.33 dB

START 30MHz

*RBW 100kHz

STOP 3.000GHz

VBW 100kHz

*SWP 10.0sec

*ATTEN 0dB

RL -10.0dBm

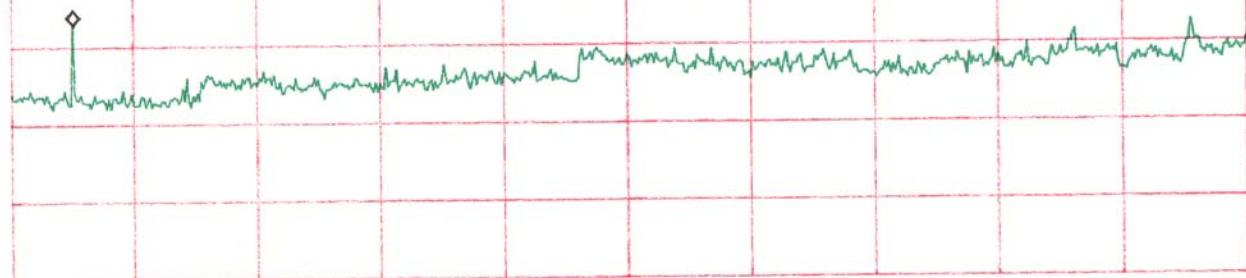
10dB/

MKR -77.17dBm

4.10GHz

AMBIT T60H41B B2
4-18 (2. MID CH)

MKR
4.10 GHz
-77.17 dBm



START 3.00GHz

*RBW 100kHz

STOP 25.00GHz

VBW 100kHz

*SWP 10.0sec

ATTEN 30dB
RL 20.0 dBm

10dB/

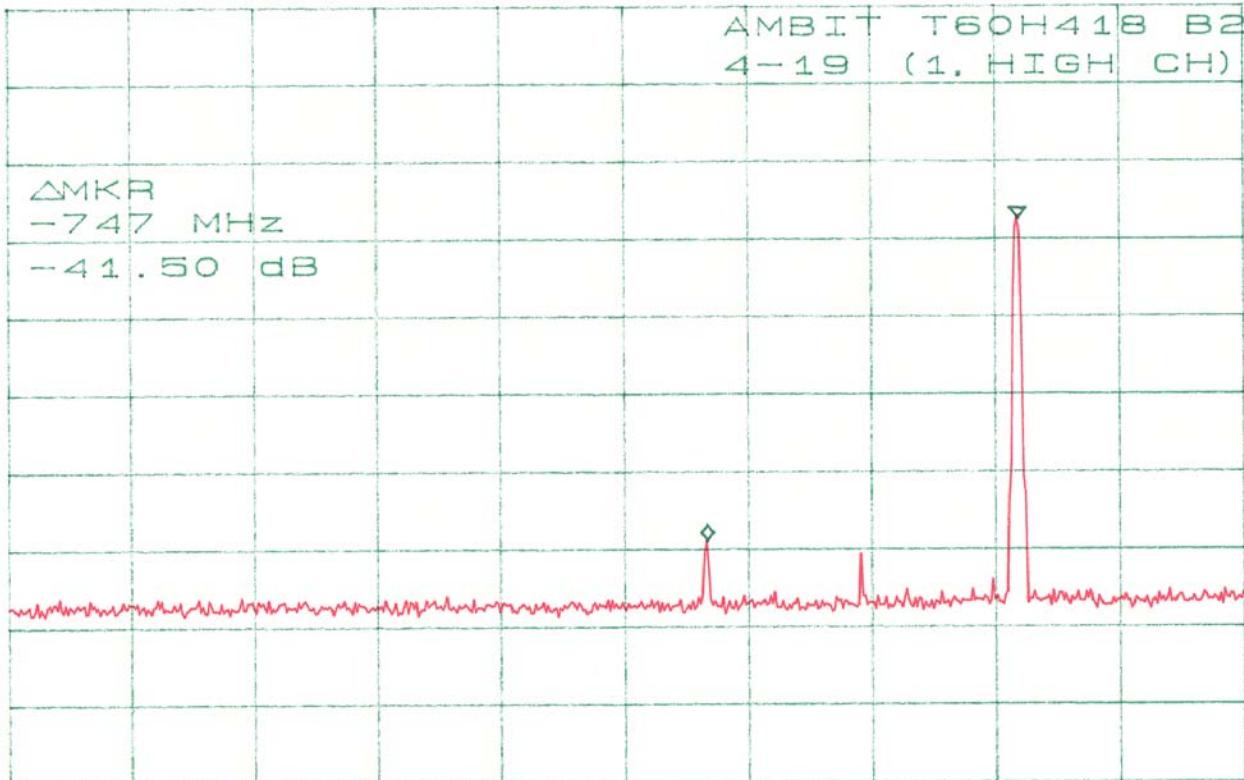
△MKR -41.50dB
-747MHz

AMBIT T60H418 B2
4-19 (1, HIGH CH)

△MKR
-747 MHz
-41.50 dB

START 30MHz
*RBW 100kHz

STOP 3.000GHz
*VBW 100kHz *SWP 10.0sec



*ATTEN 0dB

RL -10.0dBm

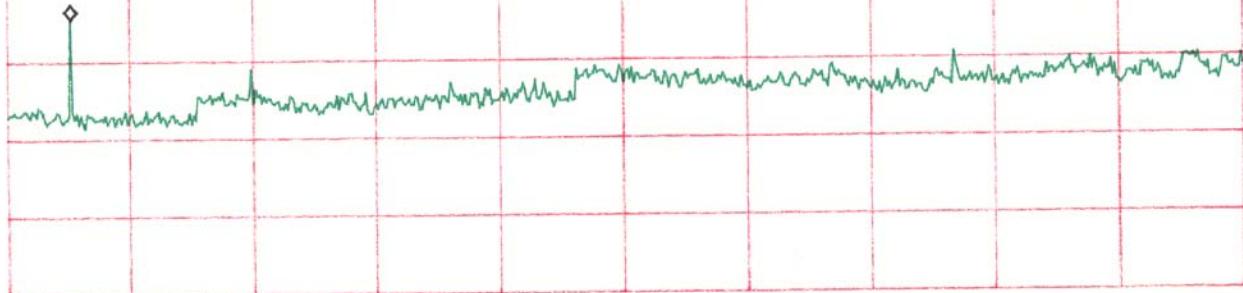
10dB/

MKR -74.50dBm

4.14GHz

AMBIT T60H418 B2
4-18 (2, HIGH CH)

MKR
4.14 GHz
-74.50 dBm



START 3.000GHz

*RBW 100kHz

STOP 25.000GHz

VBW 100kHz

*SWP 10.0sec

*ATTEN 0dB

RL -10.00dBm

10dB/

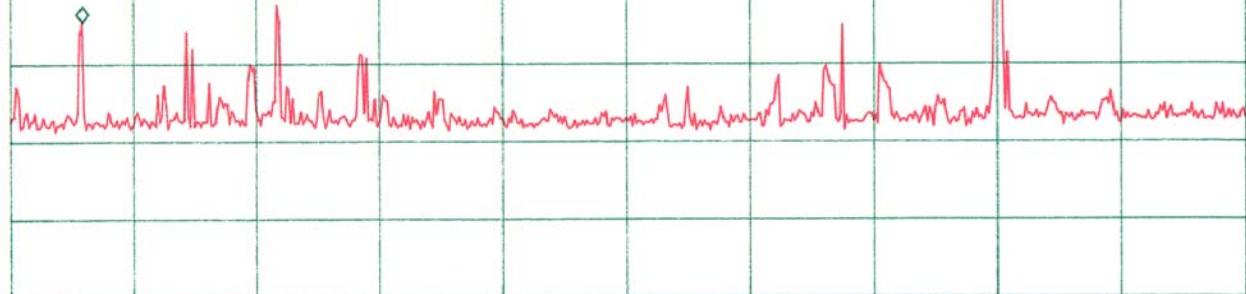
ΔMKR -25.50dB

-2.208GHz

AMBI T60H418 B2
4-19 (2. LOW CH)

ΔMKR
-2.208 GHz

-25.50 dB



START 30MHz

*RBW 100kHz

STOP 3.000GHz

VBW 100kHz

*SWP 10.0sec

*ATTEN 0dB

RL -10.0dBm

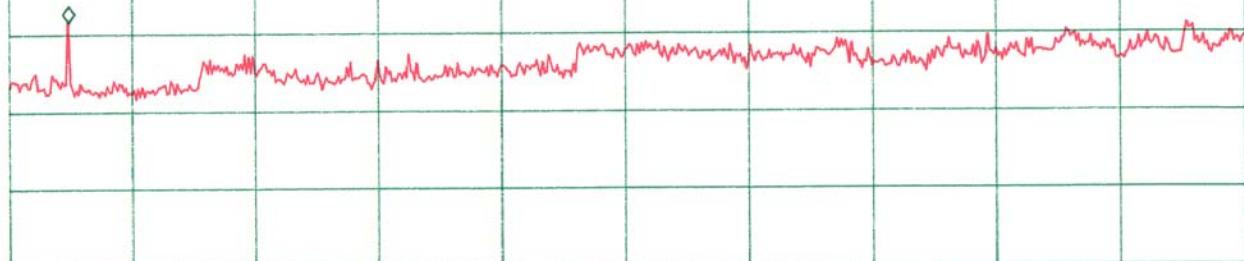
10dB/

MKR -78.33dBm

4.06GHz

AMBI T60H418 B2
4-19 (2. LOW CH)

MKR
4.06 GHz
-78.33 dBm



START 3.00GHz

*RBW 100kHz

STOP 25.00GHz

VBW 100kHz

*SWP 10.0sec

*ATTEN 0dB

RL -10.0dBm

10dB/

△MKR -25.66dB

-2.232GHz

| | | |
|------|---------|-----|
| AMBI | T60H418 | B2 |
| 4-19 | (2. | MID |
| | | CH) |

△MKR
-2.232 GHz
-25.66 dB

START 30MHz

*RBW 100kHz

STOP 3.000GHz

VBW 100kHz

*SWP 10.0sec

*ATTEN 0dB

RL -10.0dBm

10dB/

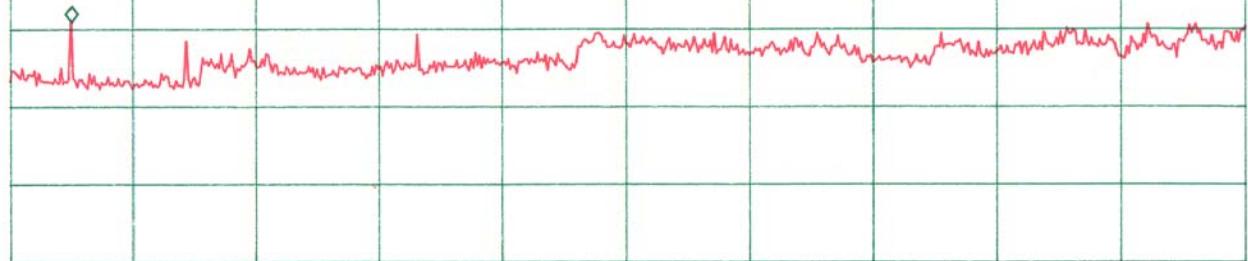
MKR -79.00dBm

4.10GHz

AMBI T60H418 B2
4-19 (2. MID CH)

MKR
4.10 GHz

-79.00 dBm



START 3.00GHz

*RBW 100kHz

STOP 25.00GHz

VBW 100kHz

*SWP 10.0sec

*ATTEN 0dB

RL -10.0dBm

10dB/

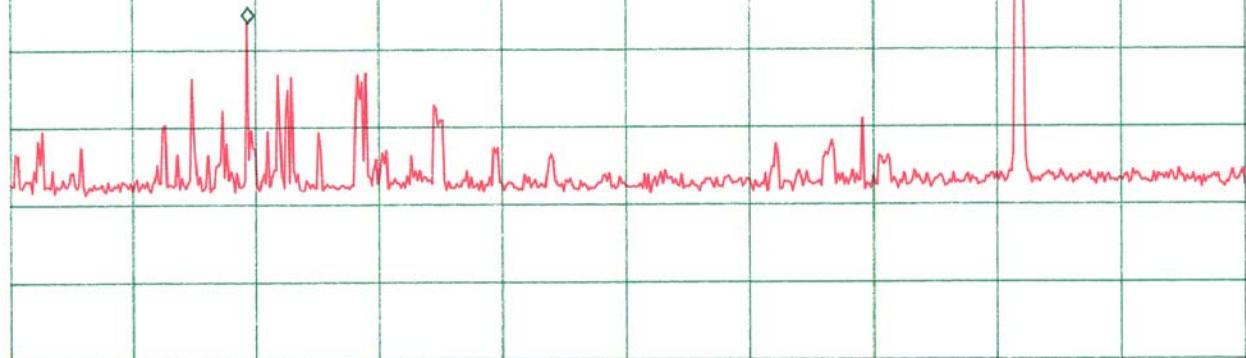
△MKR -21.00dB

-1.856GHz

| | | | |
|------|----------|-----|----|
| AMBI | T60H41 | B | B2 |
| 4-19 | (2, HIGH | CH) | |

△MKR
-1.856 GHz

-21.00 dB



START 30MHz

*RBW 100kHz

STOP 3.000GHz

VBW 100kHz

*SWP 10.0sec

*ATTEN 0dB

RL -10.0dBm

10dB/

MKR -79.67dBm

21.96GHz

AMBI
4-19 T60H418 B2
(2, HIGH CH)

MKR

21.96 GHz

-79.67 dBm

START 3.00GHz

*RBW 100kHz

STOP 25.00GHz

VBW 100kHz

*SWP 10.0sec