



# **EMI TEST REPORT**

**Test Report No.: 26GE0296-HO-2a**

**Applicant** : **FUJITSU TEN Limited**  
**Type of Equipment** : **DISPLAY**  
**Model No.** : **BT008A**  
**FCC ID** : **BABBT008A**  
**Test standard** : **FCC Part 15 Subpart C**  
**Section 15.207, Section 15.247: 2006**  
**Test Result** : **Complied**

1. This test report shall not be reproduced in full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with the above regulation. We hereby certify that the data contain a true representation of the EMC profile.
4. The test results in this report are traceable to the national or international standards.

**Date of test:**

March 26 to 30, 2006

**Tested by:**

Kenichi Adachi  
EMC Services

Yasuyuki Fukui  
EMC Services

**Approved by :**

Naoki Sakamoto  
Group Leader of  
EMC Services

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

| <b>CONTENTS</b>                                           | <b>PAGE</b> |
|-----------------------------------------------------------|-------------|
| SECTION 1: Client information .....                       | 3           |
| SECTION 2: Equipment under test (E.U.T.).....             | 3           |
| SECTION 3: Test specification, procedures & results ..... | 5           |
| SECTION 4: Operation of E.U.T. during testing.....        | 8           |
| SECTION 5: Spurious Emission .....                        | 9           |
| SECTION 6: Bandwidth.....                                 | 10          |
| SECTION 7: Maximum Peak Output Power .....                | 10          |
| SECTION 8: Carrier Frequency Separation .....             | 10          |
| SECTION 9: Number of Hopping Frequency .....              | 10          |
| SECTION 10: Dwell time .....                              | 10          |
| APPENDIX 1: Photographs of test setup .....               | 11          |
| Spurious Emission (Radiated).....                         | 11          |
| APPENDIX 2: Test instruments .....                        | 12          |
| APPENDIX 3: Data of EMI test.....                         | 13          |
| Carrier Frequency Separation .....                        | 13          |
| 20dB Bandwidth .....                                      | 15          |
| Number of Hopping Frequency .....                         | 17          |
| Dwell time .....                                          | 19          |
| Maximum Peak Output Power .....                           | 22          |
| Radiated Spurious Emission.....                           | 24          |
| Conducted Spurious Emission .....                         | 32          |
| 99% Occupied Bandwidth.....                               | 36          |

---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

## **SECTION 1: Client information**

|                  |   |                                                         |
|------------------|---|---------------------------------------------------------|
| Company Name     | : | FUJITSU TEN Limited                                     |
| Brand Name       | : | FUJITSU TEN                                             |
| Address          | : | 2-28 Goshō-Dori 1-chome, Hyogo-ku, Kobe, 652-8510 Japan |
| Telephone Number | : | +81-78-682-2159                                         |
| Facsimile Number | : | +81-78-671-7160                                         |
| Contact Person   | : | Naoto Nishimura                                         |

## **SECTION 2: Equipment under test (E.U.T.)**

### **2.1 Identification of E.U.T.**

|                        |   |                                                                                           |
|------------------------|---|-------------------------------------------------------------------------------------------|
| Type of Equipment      | : | DISPLAY                                                                                   |
| Model No.              | : | BT008A (Applied model)<br>BT007A (Tested model) *                                         |
| Serial No.             | : | 2G000014                                                                                  |
| Country of Manufacture | : | Japan                                                                                     |
| Condition of EUT       | : | Production prototype<br>(Not for Sale: This sample is equivalent to mass-produced items.) |
| Rating                 | : | DC12.0V                                                                                   |
| Receipt Date of Sample | : | March 22, 2006                                                                            |

\*Test was performed with the superior model, BT007A.  
Applied model: BT008A is identical to BT007A except that BT007A has a navigation function.  
There is no difference in radio specification between those two models.

## 2.2 Product Description

Model No: BT008A (referred to as the EUT in this report) is the DISPLAY with built-in Bluetooth. It is installed in vehicle, and displays the information on navigation, audio & visual, and others on a screen. It has the interface which can be operated by touching a screen top. Moreover, Bluetooth is used and the service linked to a cellular phone is offered.

|                                 |   |                                                                                                                                    |
|---------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------|
| Clock frequencies in the system | : | 12.55MHz, 5MHz, 4MHz (Microprocessor)<br>12.079MHz, 14.549MHz (CPU),<br>16.616MHz, 33.231MHz, 27MHz, 32.768KHz (Drawing dot clock) |
| Equipment Type                  | : | Transceiver                                                                                                                        |
| Frequency of Operation          | : | 2402-2480MHz                                                                                                                       |
| Bandwidth & Channel spacing     | : | 79MHz & 1MHz                                                                                                                       |
| Modulation                      | : | FHSS                                                                                                                               |
| Mode of Operation               | : | Duplex                                                                                                                             |
| ITU code                        | : | F1D                                                                                                                                |
| Power Supply                    | : | DC12.0V (EUT)<br>DC3.3V (RF Module part)                                                                                           |
| Antenna Type                    | : | Reverse F type (ANT0450-16B/U-BT)                                                                                                  |
| Antenna Connector Type          | : | U.FL (SMT Type )                                                                                                                   |
| Antenna Gain                    | : | -1.14dBi                                                                                                                           |

### **SECTION 3: Test specification, procedures & results**

#### **3.1 Test Specification**

|                    |   |                                                                                                                                                                                                                     |
|--------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Specification | : | FCC Part15 Subpart C : 2006                                                                                                                                                                                         |
| Title              | : | FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators<br>Section 15.207 Conducted limits: 2006<br>Section 15.247 Operation within the bands 902-928MHz,<br>2400-2483.5MHz, and 5725-5850MHz: 2006 |

#### **FCC 15.31 (e)**

The stable voltage (DC3.3V) is constantly supplied to RF Module by DC-DC converter. Therefore, this EUT complies with the requirement

#### **FCC Part 15.203 Antenna requirement**

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT. Therefore, the equipment complies with the antenna requirement of Section 15.203.

---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

### 3.2 Procedures and results

| No. | Item                         | Test Procedure                                                                               | Specification                                                         | Remarks            | Deviation | Worst Margin*0)                                                                     | Results  |
|-----|------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------|-----------|-------------------------------------------------------------------------------------|----------|
| 1   | Conducted Emission           | FCC: ANSI C63.4:2003<br>7. AC powerline conducted emission measurements<br>IC: RSS-Gen 7.2.2 | FCC: Section 15.207<br>IC: RSS-Gen 7.2.2                              | -                  | N/A       | N/A                                                                                 | N/A*1)   |
| 2   | Carrier Frequency Separation | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: -                    | FCC:<br>Section 15.247(a)(1)<br>IC: RSS-210 A8.1 (2)                  | Conducted          | N/A       | See data.                                                                           | Complied |
| 3   | 20dB Bandwidth               | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: -                    | FCC:<br>Section 15.247(a)(1)<br>IC: RSS-210 A8.1 (1)                  | Conducted          | N/A       |                                                                                     | Complied |
| 4   | Number of Hopping Frequency  | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: -                    | FCC:<br>Section 15.247(a)(1)(iii)<br>IC: RSS-210 A8.1 (4)             | Conducted          | N/A       |                                                                                     | Complied |
| 5   | Dwell time                   | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: -                    | FCC:<br>Section 15.247(a)(1)(iii)<br>IC: RSS-210 A8.1 (4)             | Conducted          | N/A       |                                                                                     | Complied |
| 6   | Maximum Peak Output Power    | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: RSS-Gen 4.6          | FCC:<br>Section 15.247(b)(1)<br>IC: RSS-210 A8.4 (2)                  | Conducted          | N/A       |                                                                                     | Complied |
| 7   | Band Edge Compliance         | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: -                    | FCC: Section 15.247(d)<br>IC: RSS-210 A8.5                            | Conducted          | N/A       |                                                                                     | Complied |
| 8   | Spurious Emission            | FCC: ANSI C63.4:2003<br>13. Measurement of intentional radiators<br>IC: RSS-Gen 4.7 and 4.8  | FCC: Section 15.247(d)<br>IC: RSS-210 A8.5<br>RSS-Gen 7.2.1 and 7.2.3 | Conducted Radiated | N/A       | [Tx] 2.1dB<br>4960.0MHz,<br>Ver, AV, Ch: High<br>[Rx] 6.6dB<br>2460.0MHz<br>Hor, AV | Complied |

Note: UL Apex's EMI Work Procedures No.QPM05 and QPM15.

\*0) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

\*1) This test is not applicable, because the EUT does not have AC mains and is installed into vehicle.

\*These tests were also referred to FCC Public Notice DA 00-705 "Guidance on Measurement for Frequency Hopping Spread Spectrum Systems".

\*These tests were performed without any deviations from test procedure except for additions or exclusions.

### 3.3 Addition to standards

| No. | Item                    | Test Procedure    | Specification     | Remarks   | Deviation | Worst margin | Results |
|-----|-------------------------|-------------------|-------------------|-----------|-----------|--------------|---------|
| 1   | 99% Occupied Band Width | IC: RSS-Gen 4.4.1 | IC: RSS-Gen 4.4.1 | Conducted | N/A       | N/A          | N/A     |

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

### 3.4 Uncertainty

#### Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is  $\pm 4.59\text{dB}(3\text{m})/\pm 4.58\text{dB}(10\text{m})$ .

The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is  $\pm 4.62\text{dB}(3\text{m})/\pm 4.60\text{dB}(10\text{m})$ .

The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is  $\pm 5.27\text{dB}$ .

[Tx] The data listed in this report meets the limits unless the uncertainty is taken into consideration.

[Rx] The data listed in this test report has enough margin, more than the site margin.

#### Other test except Conducted Emission and Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test is  $\pm 3.0\text{dB}$ .

### 3.5 Test Location

UL Apex Co., Ltd. Head Office EMC Lab. \*NVLAP Lab. code: 200572-0

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116 Facsimile : +81 596 24 8124

|                               | FCC<br>Registration<br>Number | IC Registration<br>Number | Width x Depth x<br>Height (m) | Size of<br>reference ground plane (m) /<br>horizontal conducting plane | Other<br>rooms      |
|-------------------------------|-------------------------------|---------------------------|-------------------------------|------------------------------------------------------------------------|---------------------|
| No.1 semi-anechoic<br>chamber | 313583                        | IC4247A                   | 19.2 x 11.2 x 7.7m            | 7.0 x 6.0m                                                             | Preparation<br>room |
| No.2 semi-anechoic<br>chamber | 846015                        | IC4247A-2                 | 7.5 x 5.8 x 5.2m              | 4.0 x 4.0m                                                             | -                   |
| No.3 measurement<br>room      | -                             | -                         | 4.0 x 6.0 x 2.7m              | N/A                                                                    | -                   |
| No.4 measurement<br>room      | -                             | -                         | 4.0 x 6.0 x 2.7m              | N/A                                                                    | -                   |
| No.5 shielded room            | -                             | -                         | 6.0 x 6.0 x 3.9m              | N/A                                                                    | -                   |
| No.6 shielded<br>room         | -                             | -                         | 4.0 x 4.5 x 2.7m              | N/A                                                                    | -                   |
| No.6 preparation<br>room      | -                             | -                         | 4.75 x 5.4 x 3.0m             | N/A                                                                    | -                   |
| No.7 shielded room            | -                             | -                         | 4.7 x 7.5 x 2.7m              | 4.7 x 7.5m                                                             | -                   |
| No.8 measurement<br>room      | -                             | -                         | 3.1 x 5.0 x 2.7m              | N/A                                                                    | -                   |

\* Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0m for No.1 and No.2 semi-anechoic and No.7 shielded room.

### 3.6 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

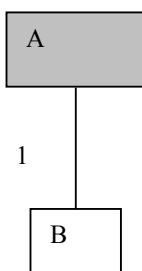
## **SECTION 4: Operation of E.U.T. during testing**

### **4.1 Operating Modes**

The mode used for test: Transmitting mode(Packet size DH5[worst size])  
- Low Channel : 2402MHz  
- Mid Channel : 2441MHz  
- High Channel : 2480MHz  
Receiving mode  
- Mid Channel : 2441MHz  
Inquiry mode

\*Remarks: Test was not performed at AFH mode, because the decrease of number of channel (min: 20ch) at AFH mode does not influence on the output power and bandwidth of the EUT. However, the limit level 125mWof AFH mode was used for the test.

### **4.2 Configuration and peripherals**



\* Cabling and setup were taken into consideration and test data was taken under worse case conditions.

#### **Description of EUT and Support equipment**

| No. | Item        | Model number | Serial number | Manufacturer        | Remarks |
|-----|-------------|--------------|---------------|---------------------|---------|
| A   | DISPLAY     | BT007A*      | 2G000014      | FUJITSU TEN Limited | EUT     |
| B   | Car Battery | 40B10L       | A030402       | YUASA               | -       |

\*Test was performed with the superior model, BT007A.

Applied model: BT008A is identical to BT007A except that BT007A has a navigation function.  
There is no difference in radio specification between those two models.

#### **List of cables used**

| No. | Name           | Length (m) | Shield |
|-----|----------------|------------|--------|
| 1   | DC Power Cable | 0.9        | N      |

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

## **SECTION 5: Spurious Emission**

### **[Conducted]**

#### **Test Procedure**

The Out of Band Emission was measured with a spectrum analyzer connected to the antenna port.

**Test data** : APPENDIX 3

**Test result** : Pass

### **[Radiated]**

#### **Test Procedure**

EUT was placed on a platform of nominal size, 0.5m by 1.0m, raised 80cm above the conducting ground plane.

The Radiated Electric Field Strength intensity has been measured in a Semi Anechoic Chamber with a ground plane and at a distance of 3m(Below 10GHz) and 1m(Upper 10GHz).

The height of the measuring varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

#### **20dBc was applied to the frequency over the limit of FCC 15.209 and outside the restricted band of 15.205.**

| Frequency       | Below 1GHz                               | Above 1GHz                                             |
|-----------------|------------------------------------------|--------------------------------------------------------|
| Instrument used | Test Receiver / Spectrum Analyzer        | Spectrum Analyzer                                      |
| Detector        | QP: BW 120kHz(T/R)                       | PK: RBW:1MHz/VBW: 1MHz                                 |
| IF Bandwidth    | 20dBc : RBW: 100kHz<br>VBW: 300kHz (S/A) | AV: RBW:1MHz/VBW:10Hz<br>20dBc : RBW:100kHz/VBW:300kHz |

The test was made on EUT at the normal use position.

**Test data** : APPENDIX 3

**Test result** : Pass

---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

## **SECTION 6: Bandwidth**

### **Test Procedure**

The bandwidth was measured with a spectrum analyzer connected to the antenna port.

|             |              |
|-------------|--------------|
| Test data   | : APPENDIX 3 |
| Test result | : Pass       |

## **SECTION 7: Maximum Peak Output Power**

### **Test Procedure**

The Maximum Peak Output Power was measured with a spectrum analyzer connected to the antenna port.

|             |              |
|-------------|--------------|
| Test data   | : APPENDIX 3 |
| Test result | : Pass       |

## **SECTION 8: Carrier Frequency Separation**

### **Test Procedure**

The carrier frequency separation was measured with a spectrum analyzer connected to the antenna port.

|             |              |
|-------------|--------------|
| Test data   | : APPENDIX 3 |
| Test result | : Pass       |

## **SECTION 9: Number of Hopping Frequency**

### **Test Procedure**

The Number of Hopping Frequency was measured with a spectrum analyzer connected to the antenna port.

|             |              |
|-------------|--------------|
| Test data   | : APPENDIX 3 |
| Test result | : Pass       |

## **SECTION 10: Dwell time**

### **Test Procedure**

The Dwell time was measured with a spectrum analyzer connected to the antenna port.

|             |              |
|-------------|--------------|
| Test data   | : APPENDIX 3 |
| Test result | : Pass       |

---

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

## **APPENDIX 1: Photographs of test setup**

### **Spurious Emission (Radiated)**

**Front**



**Rear**



## **APPENDIX 2:Test instruments**

### **EMI test equipment**

| <b>Control No.</b> | <b>Instrument</b>               | <b>Manufacturer</b>          | <b>Model No</b>             | <b>Test Item</b> | <b>Calibration Date *<br/>Interval(month)</b> |
|--------------------|---------------------------------|------------------------------|-----------------------------|------------------|-----------------------------------------------|
| MAEC-01            | Anechoic Chamber                | TDK                          | Semi Anechoic Chamber 10m   | RE               | 2005/11/14 * 12                               |
| MHA-05             | Horn Antenna                    | Schwarzbeck                  | BBHA9120D                   | RE               | 2006/01/09 * 12                               |
| MTR-01             | Test Receiver                   | Rohde & Schwarz              | ESI40                       | RE               | 2005/11/10 * 12                               |
| MCC-25             | Microwave Cable<br>1G-26.5GHz   | Suhner                       | SUCOFLEX104                 | RE               | 2005/08/30 * 12                               |
| MCC-18             | Microwave Cable<br>1G-26.5GHz   | Suhner                       | SUCOFLEX 104                | RE               | 2006/02/02 * 12                               |
| MPA-01             | Pre Amplifier                   | Agilent                      | 8449B                       | RE               | 2006/02/09 * 12                               |
| MPA-05             | Pre Amplifier                   | TSJ                          | TSJ 1-26.5GHz<br>PreAmp     | RE               | 2005/07/08 * 12                               |
| MHF-05             | High Pass Filter                | Tokimec                      | TF323DCA                    | RE               | 2006/01/24 * 12                               |
| MSA-07             | Spectrum Analyzer               | Agilent                      | E4408B                      | AT               | 2006/03/24 * 12                               |
| MAT-24             | Attenuator(10dB)(<br>above1GHz) | Agilent                      | 8493C                       | AT               | 2005/06/03 * 12                               |
| MCC-06             | Microwave Cable<br>1G-26.5GHz   | Suhner                       | SUCOFLEX 104                | AT               | 2006/02/02 * 12                               |
| MHA-01             | Horn Antenna                    | EMCO                         | 3160-09                     | RE               | 2006/01/09 * 12                               |
| MCC-05             | Microwave Cable<br>1G-50GHz     | Storm                        | 421-011 ( 90-<br>1394-079 ) | RE               | 2006/01/04 * 12                               |
| MCC-27             | Microwave Cable<br>1G-50GHz     | Suhner                       | SUCOFLEX101                 | RE               | 2005/08/30 * 12                               |
| MOS-01             | Digital Humidity<br>Indicator   | N.T                          | NT-1800                     |                  | 2004/11/25 * 24                               |
| MBA-01             | Biconical Antenna               | Schwarzbeck                  | BBA9106                     | RE               | 2005/10/10 * 12                               |
| MLA-01             | Logperiodic<br>Antenna          | Schwarzbeck                  | USLP9143                    | RE               | 2005/10/14 * 12                               |
| MCC-01             | Coaxial Cable 0.1-<br>3000MHz   | Suhner/storm/Agil<br>ent/TSJ | -                           | RE               | 2006/02/20 * 12                               |
| MPA-04             | Pre Amplifier                   | Agilent                      | 8447D                       | RE               | 2005/05/24 * 12                               |
| MAT-07             | Attenuator(6dB)                 | Weinschel Corp               | 2                           | RE               | 2005/12/16 * 12                               |
| MBTR-10            | Spectrum Analyzer               | Rohde & Schwarz              | FSP30                       | AT               | 2005/11/01 * 12                               |

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

#### **Test Item:**

**RE: Radiated emission,**

**AT: Antenna terminal measurements**

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

### **APPENDIX 3: Data of EMI test**

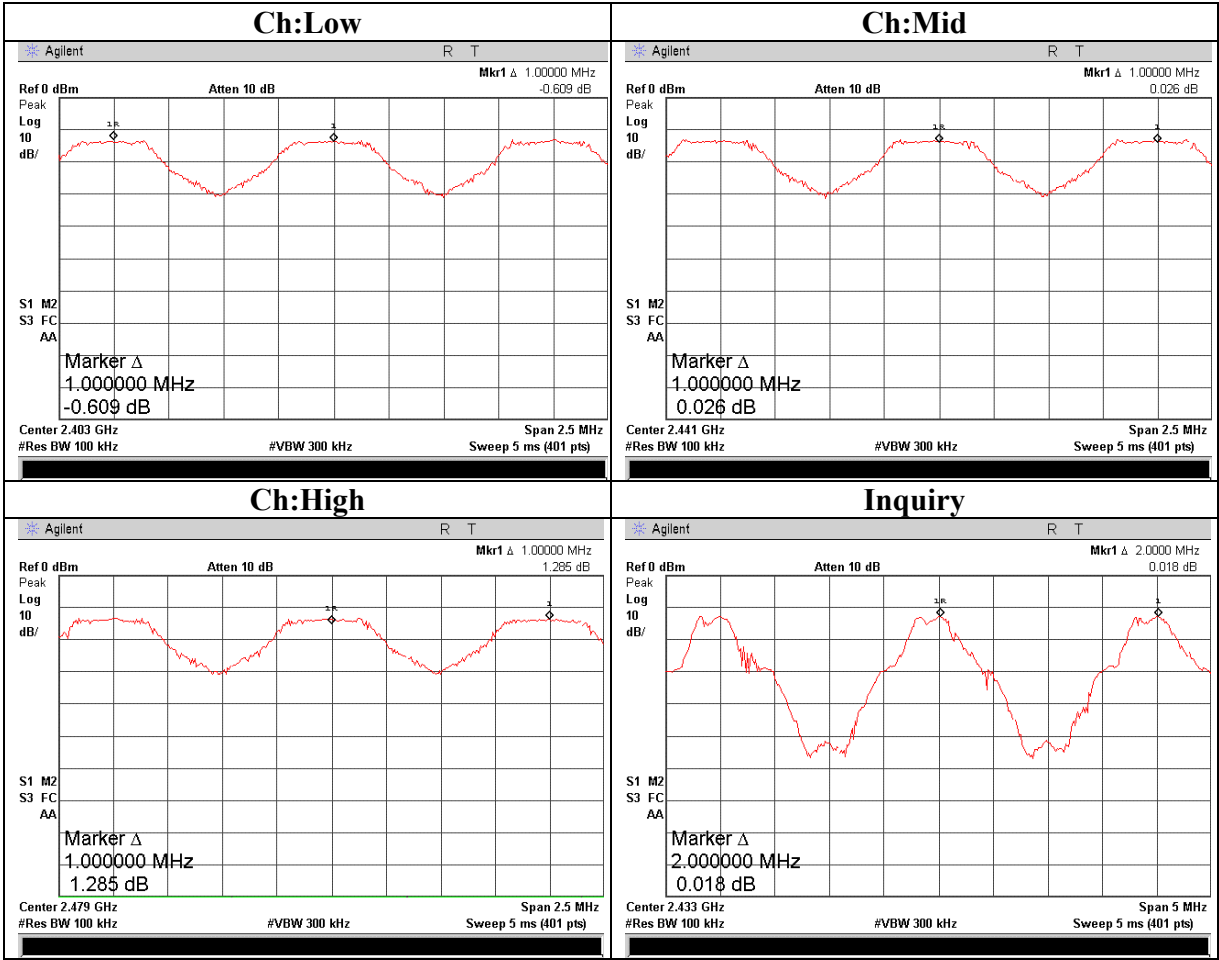
#### **Carrier Frequency Separation**

UL Apex Co., Ltd.  
Head Office EMC Lab. No.7 Shielded Room

|           |                          |               |                                     |
|-----------|--------------------------|---------------|-------------------------------------|
| COMPANY   | : FUJITSU TEN Limited    | REGULATION    | : FCC Part15 Subpart C 15.247(a)(1) |
| EQUIPMENT | : DISPLAY                | TEST DISTANCE | : -                                 |
| MODEL     | : BT007A                 | DATE          | : 03/28/2006                        |
| S/ N      | : 2G000014               | TEMPERATURE   | : 25deg.C                           |
| POWER     | : DC12V                  | HUMIDITY      | : 41%                               |
| MODE      | : Tx(Hopping on)/Inquiry | ENGINEER      | : Kenichi Adachi                    |

| Ch      | Freq.<br>[MHz] | Channel separation<br>[MHz] | Limit                                                                |
|---------|----------------|-----------------------------|----------------------------------------------------------------------|
| Low     | 2402.0         | 1.000                       | > two-thirds of the 20dB Bandwidth or 25[kHz] (whichever is greater) |
| Mid     | 2441.0         | 1.000                       | > two-thirds of the 20dB Bandwidth or 25[kHz] (whichever is greater) |
| High    | 2480.0         | 1.000                       | > two-thirds of the 20dB Bandwidth or 25[kHz] (whichever is greater) |
| Inquiry | 2433.0         | 2.000                       | > two-thirds of the 20dB Bandwidth or 25[kHz] (whichever is greater) |

Carrier Frequency Separation



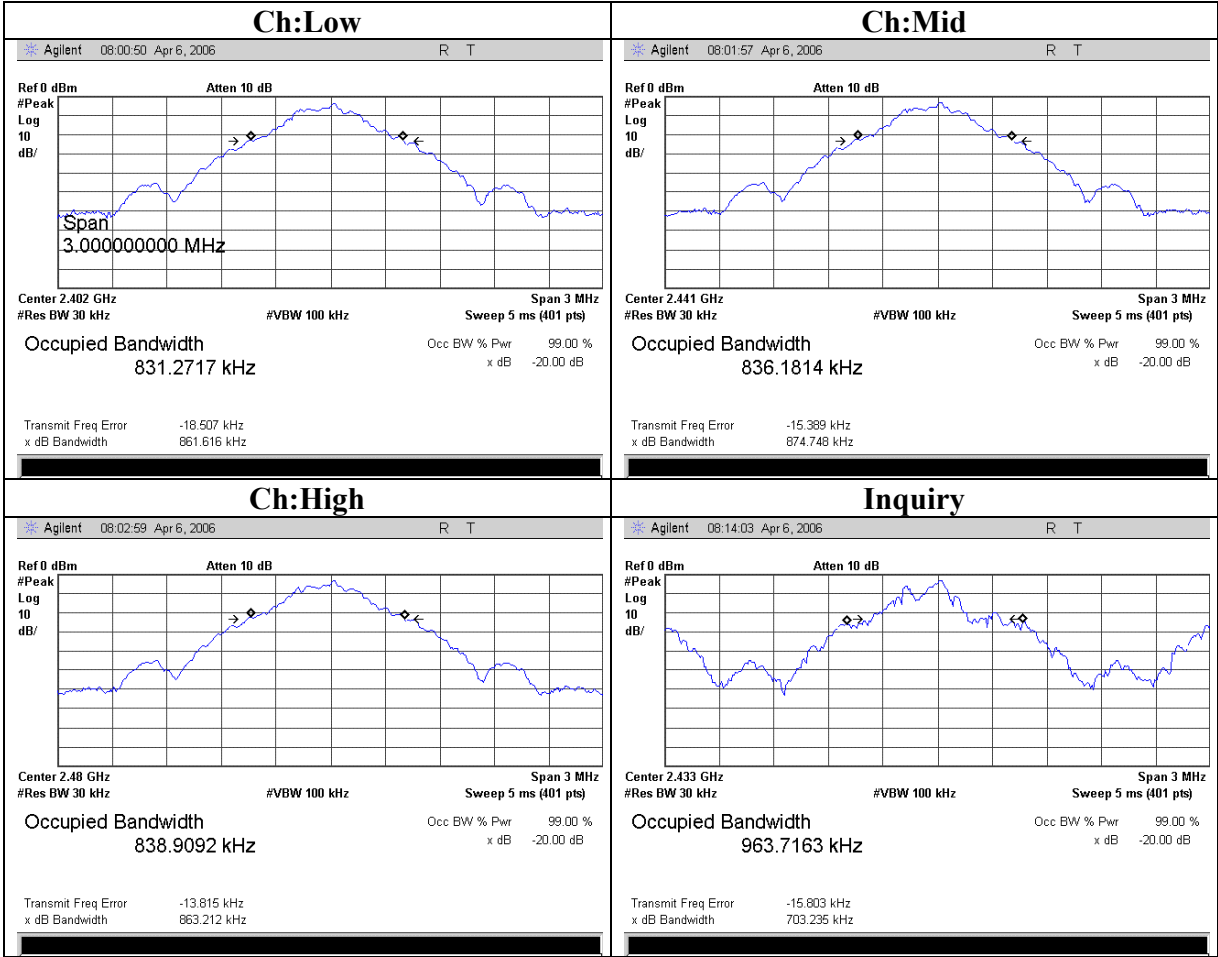
## **20dB Bandwidth**

UL Apex Co., Ltd.  
Head Office EMC Lab. No.7 Shielded Room

|           |                           |               |                                     |
|-----------|---------------------------|---------------|-------------------------------------|
| COMPANY   | : FUJITSU TEN Limited     | REGULATION    | : FCC Part15 Subpart C 15.247(a)(1) |
| EQUIPMENT | : DISPLAY                 | TEST DISTANCE | : -                                 |
| MODEL     | : BT007A                  | DATE          | : 03/27/2006                        |
| S/ N      | : 2G000014                | TEMPERATURE   | : 25deg.C                           |
| POWER     | : DC12V                   | HUMIDITY      | : 41%                               |
| MODE      | : Tx(Hopping off)/Inquiry | ENGINEER      | : Kenichi Adachi                    |

| Ch      | Freq.  | 20dB Bandwidth | Limit |
|---------|--------|----------------|-------|
|         | [MHz]  | [MHz]          | [MHz] |
| Low     | 2402.0 | 0.862          | -     |
| Mid     | 2441.0 | 0.875          | -     |
| High    | 2480.0 | 0.863          | -     |
| Inquiry | 2433.0 | 0.703          | -     |

20dB Bandwidth



### Number of Hopping Frequency

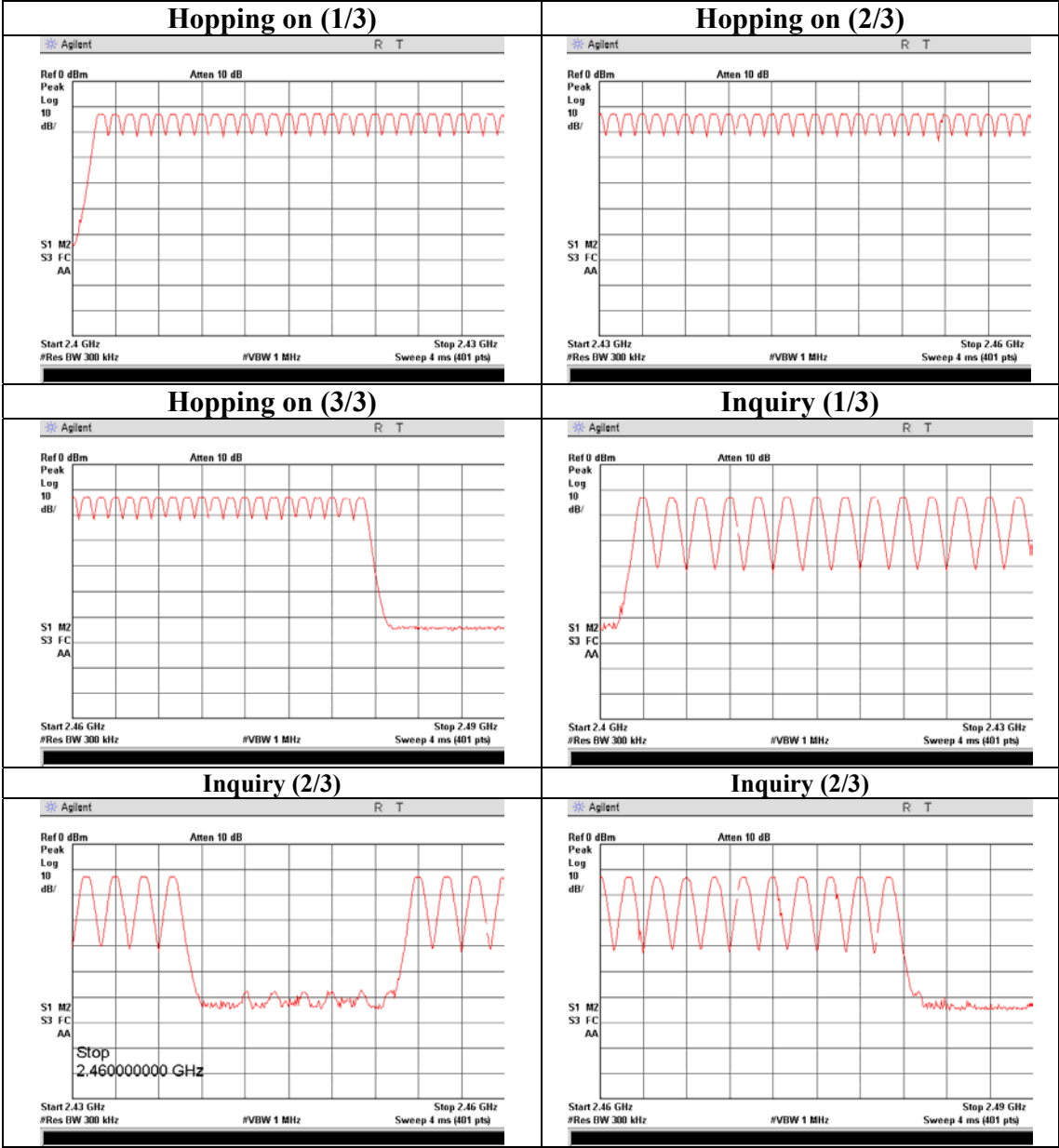
UL Apex Co., Ltd.  
Head Office EMC Lab. No.7 Shielded Room

|           |                          |               |                                          |
|-----------|--------------------------|---------------|------------------------------------------|
| COMPANY   | : FUJITSU TEN Limited    | REGULATION    | : FCC Part15 Subpart C 15.247(a)(1)(iii) |
| EQUIPMENT | : DISPLAY                | TEST DISTANCE | : -                                      |
| MODEL     | : BT007A                 | DATE          | : 03/27/2006                             |
| S/ N      | : 2G000014               | TEMPERATURE   | : 25deg.C                                |
| POWER     | : DC12V                  | HUMIDITY      | : 41%                                    |
| MODE      | : Tx(Hopping on)/Inquiry | ENGINEER      | : Kenichi Adachi                         |

| Mode          | Number of channel | Limit     |
|---------------|-------------------|-----------|
|               | [time]            | [time]    |
| Tx(Hoppng on) | 79                | $\geq 15$ |

| Mode    | Number of channel | Limit     |
|---------|-------------------|-----------|
|         | [time]            | [time]    |
| Inquiry | 32                | $\geq 15$ |

Number of Hopping Frequency



## Dwell time

UL Apex Co., Ltd.  
Head Office EMC Lab. No.7 Shielded Room

|           |                          |               |                                          |
|-----------|--------------------------|---------------|------------------------------------------|
| COMPANY   | : FUJITSU TEN Limited    | REGULATION    | : FCC Part15 Subpart C 15.247(a)(1)(iii) |
| EQUIPMENT | : DISPLAY                | TEST DISTANCE | : -                                      |
| MODEL     | : BT007A                 | DATE          | : 03/28/2006                             |
| S/ N      | : 2G000014               | TEMPERATURE   | : 25deg.C                                |
| POWER     | : DC12V                  | HUMIDITY      | : 41%                                    |
| MODE      | : Tx(Hopping on)/Inquiry | ENGINEER      | : Kenichi Adachi                         |

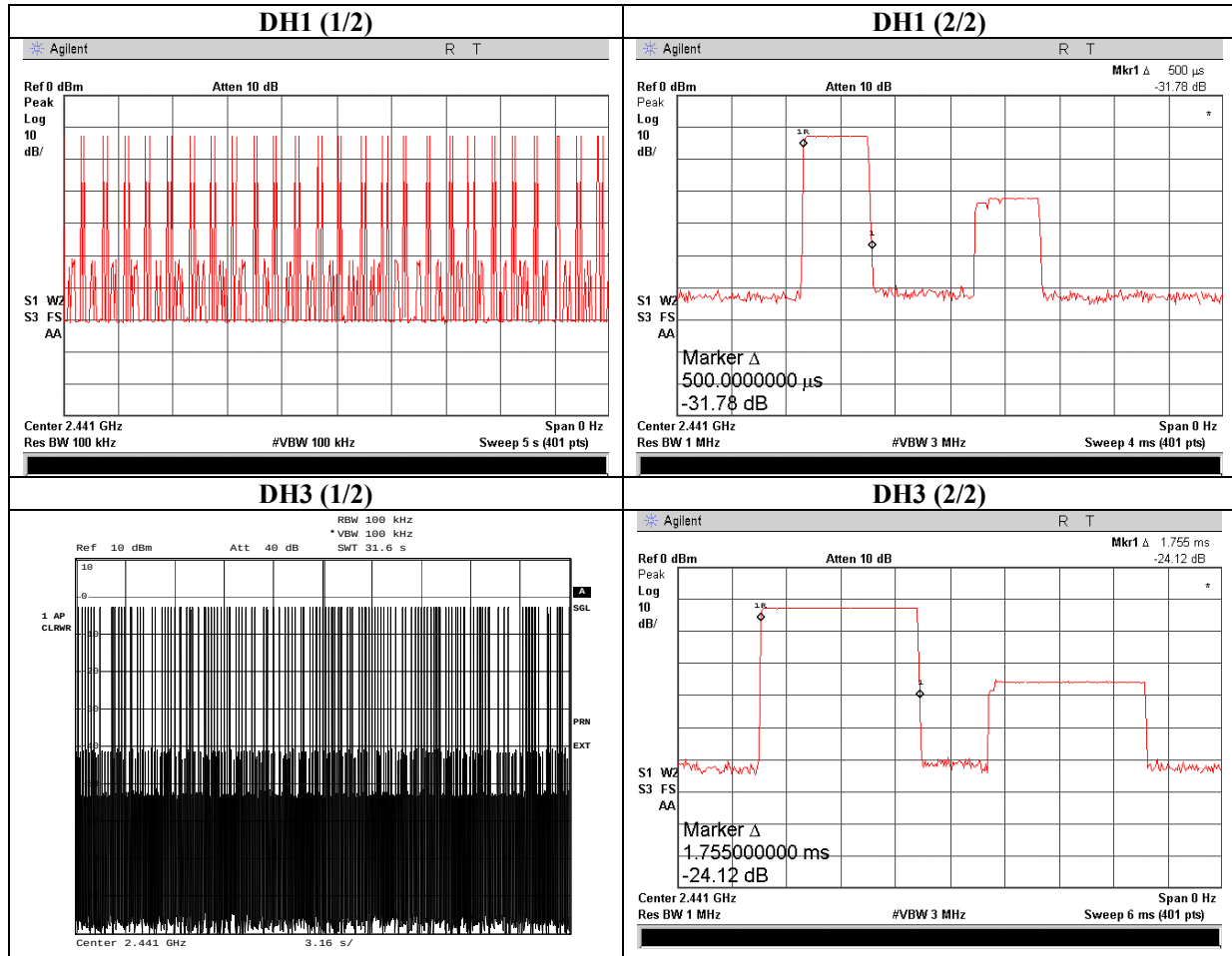
| Mode    | Number of transmission<br>in a 31.6(79 Hopping x 0.4)<br>/ 12.8(32 Hopping x 0.4)second period | Length of<br>transmission time<br>[msec] | Result<br>[msec] | Limit<br>[msec] |
|---------|------------------------------------------------------------------------------------------------|------------------------------------------|------------------|-----------------|
| DH1     | 50 times /5sec. x 31.6 = 316.00 times                                                          | 0.500                                    | 158              | 400             |
| DH3     | 141.8 times                                                                                    | 1.755                                    | 249              | 400             |
| DH5     | 101.8 times                                                                                    | 3.020                                    | 307              | 400             |
| Inquiry | 100times / 1sec. x 12.8 = 1280 times                                                           | 0.210                                    | 269              | 400             |

※Average data of 5 tests

### **Dwell time factor (Worst mode: DH5)**

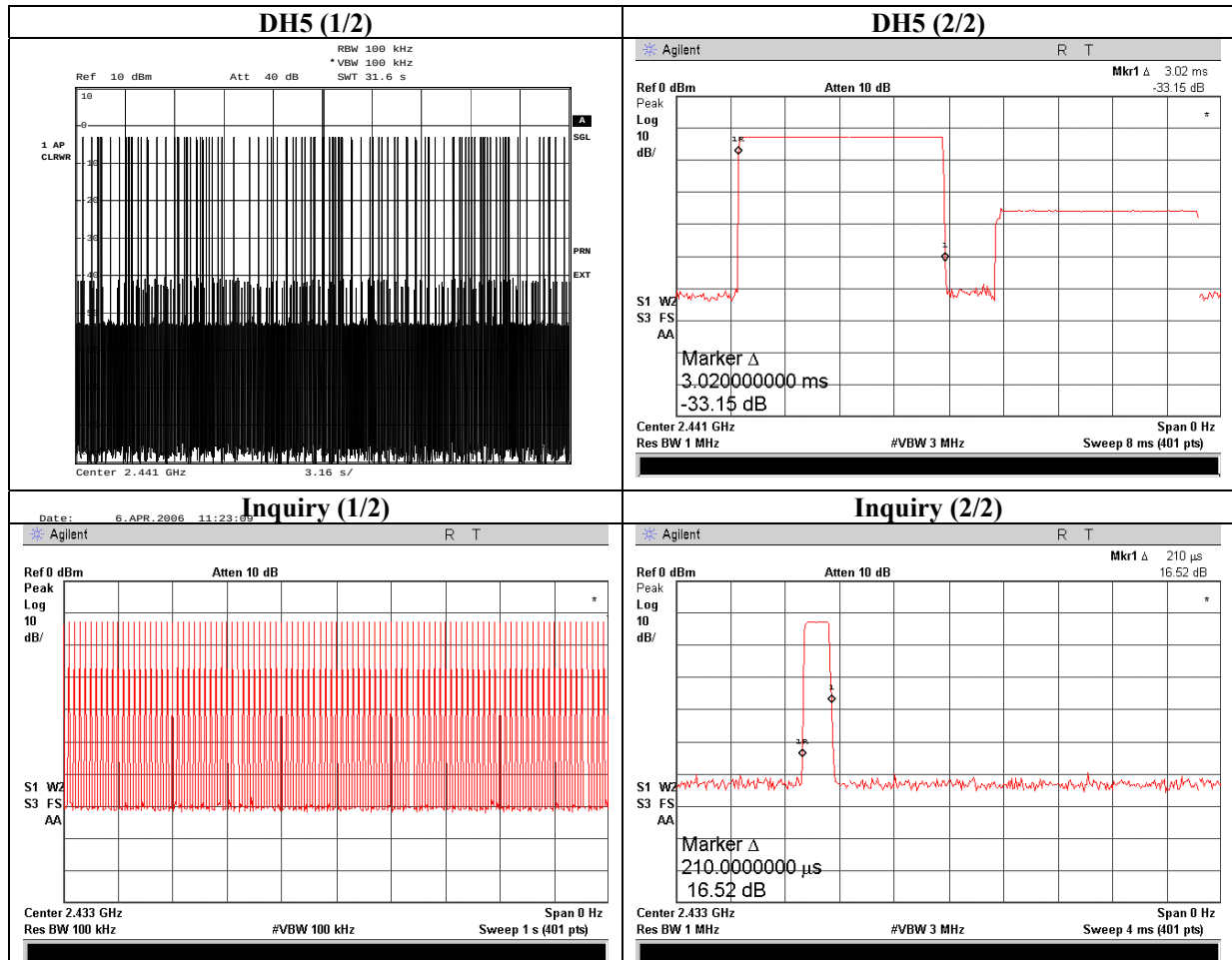
Dwell time factor= $20\log_{10}(\text{dwell time}/100\text{ms})$   
= $20\log_{10}(((101.8\text{times}/31.6\text{sec})*0.1\text{sec})*3.020\text{ms})/100\text{ms})$   
= $20\log_{10}((0.322\text{times}*3.020\text{ms})/100\text{ms})$   
= $20\log_{10}((0.972\text{ms})/100\text{ms})$   
= -40.24 [dB]

## Dwell time



Date: 6.APR.2006 10:59:28

## Dwell time



## Maximum Peak Output Power

UL Apex Co., Ltd.  
Head Office EMC Lab. No.7 Shielded Room

|           |                           |               |                                     |
|-----------|---------------------------|---------------|-------------------------------------|
| COMPANY   | : FUJITSU TEN Limited     | REGULATION    | : FCC Part15 Subpart C 15.247(b)(1) |
| EQUIPMENT | : DISPLAY                 | TEST DISTANCE | : -                                 |
| MODEL     | : BT007A                  | DATE          | : 03/28/2006                        |
| S/ N      | : 2G000014                | TEMPERATURE   | : 25deg.C                           |
| POWER     | : DC12V                   | HUMIDITY      | : 41%                               |
| MODE      | : Tx(Hopping off)/Inquiry | ENGINEER      | : Kenichi Adachi                    |

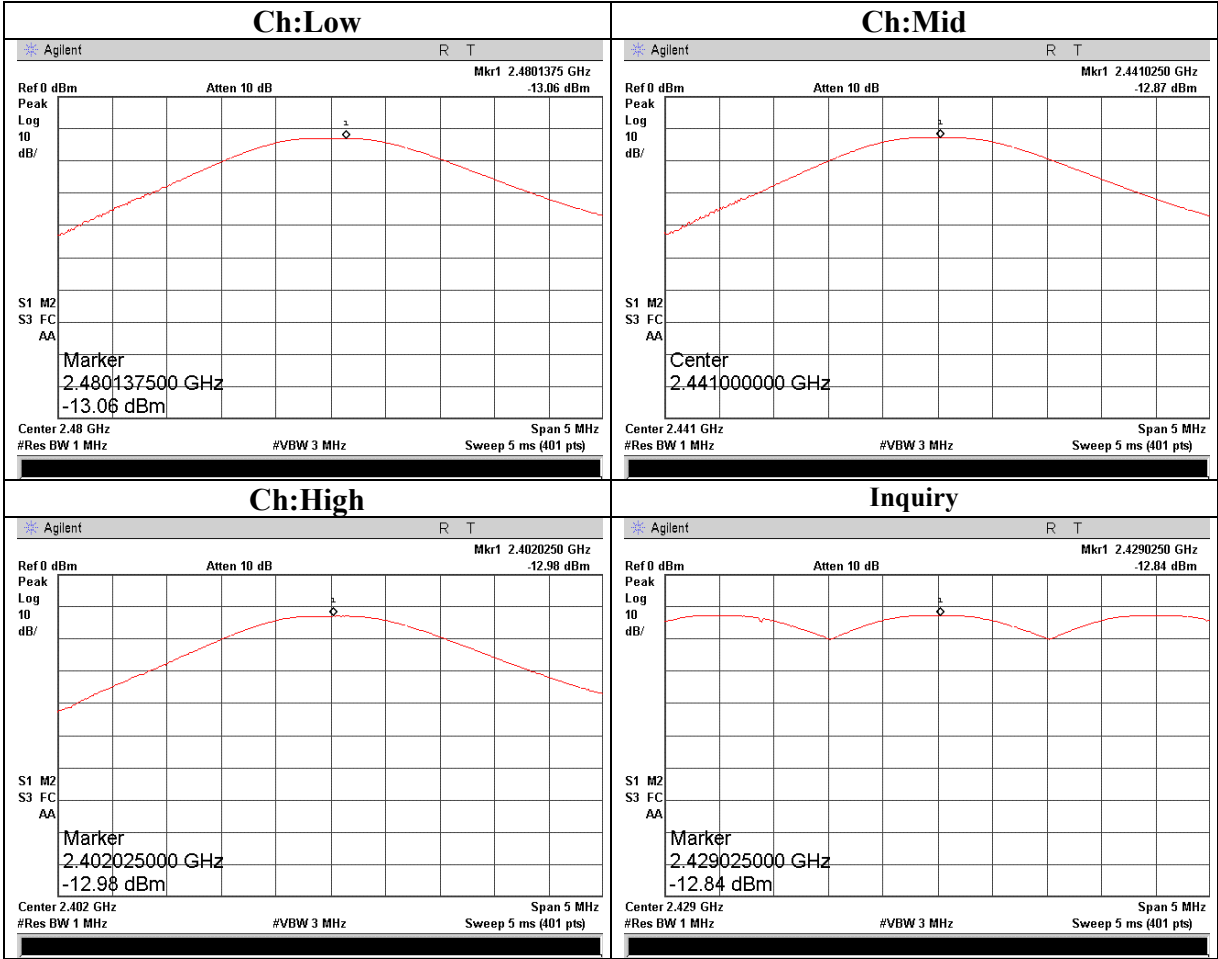
| Ch      | Freq.<br>[MHz] | S/A<br>Reading<br>[dBm] | Cable<br>Loss<br>[dB] | Atten.<br>[dB] | Result<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|---------|----------------|-------------------------|-----------------------|----------------|-----------------|----------------|----------------|
| Low     | 2402.0         | -13.06                  | 0.55                  | 9.55           | -2.96           | 20.96          | 23.92          |
| Mid     | 2441.0         | -12.87                  | 0.48                  | 9.55           | -2.84           | 20.96          | 23.80          |
| High    | 2480.0         | -12.98                  | 0.45                  | 9.55           | -2.98           | 20.96          | 23.94          |
| Inquiry | 2429.0         | -12.84                  | 0.48                  | 9.55           | -2.81           | 20.96          | 23.77          |

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer)+ Attenuator

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

Maximum Peak Output Power



Test report No. : 26GE0296-HO-2a  
Page : 24 of 36  
Issued date : April 6, 2006  
Revised date : April 12, 2006  
FCC ID : BABBT008A

## Radiated Spurious Emission (30MHz-1GHz)

\* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

### DATA OF RADIATED EMISSION TEST

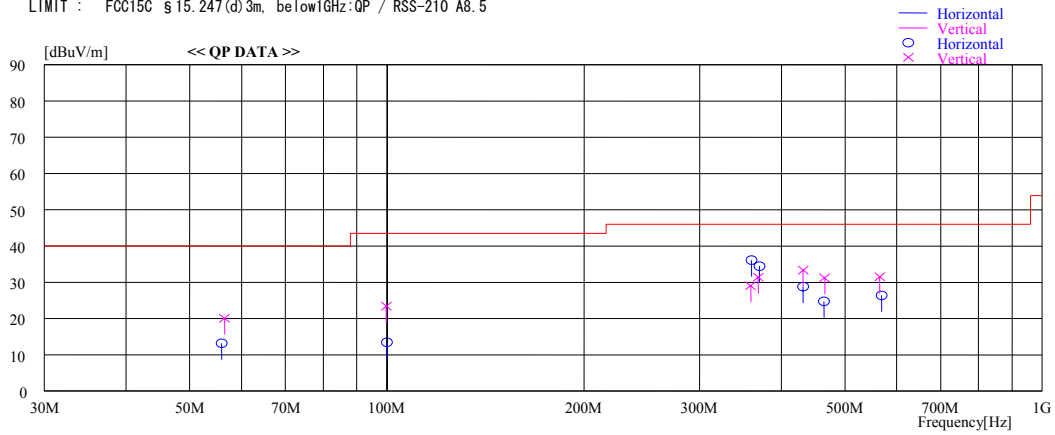
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2006/03/30 01:21:41

Applicant : FUJITSU TEN Limited  
Kind of EUT : DISPLAY  
Model No. : BT007A  
Serial No. : 2G000014

Report No. : 26GE0296-H0  
Power : DC12V  
Temp./Humi. : 20deg.C / 32%  
Operator : Yasuyuki Fukui

Mode / Remarks : Bluetooth Transmitting 2402MHz

LIMIT : FCC15C §15.247(d)3m, below1GHz:QP / RSS-210 A8.5



| Frequency | Reading | DET | Antenna<br>Factor | Loss&<br>Gain | Level    | Angle | Height | Polar. | Limit    | Margin |
|-----------|---------|-----|-------------------|---------------|----------|-------|--------|--------|----------|--------|
| [MHz]     | [dBuV]  |     | [dB/m]            | [dB]          | [dBuV/m] | [Deg] | [cm]   |        | [dBuV/m] | [dB]   |
| 55.972    | 23.8    | QP  | 9.4               | -20.0         | 13.2     | 269   | 300    | Hori.  | 40.0     | 26.8   |
| 56.513    | 30.8    | QP  | 9.3               | -20.0         | 20.1     | 262   | 100    | Vert.  | 40.0     | 19.9   |
| 99.800    | 32.1    | QP  | 10.5              | -19.1         | 23.5     | 6     | 100    | Vert.  | 43.5     | 20.1   |
| 100.000   | 22.1    | QP  | 10.5              | -19.1         | 13.5     | 277   | 300    | Hori.  | 43.5     | 30.0   |
| 358.918   | 29.3    | QP  | 16.3              | -16.5         | 29.1     | 1     | 100    | Vert.  | 46.0     | 16.9   |
| 360.321   | 36.1    | QP  | 16.4              | -16.4         | 36.1     | 40    | 100    | Hori.  | 46.0     | 9.9    |
| 370.340   | 34.2    | QP  | 16.7              | -16.4         | 34.5     | 41    | 100    | Hori.  | 46.0     | 11.6   |
| 368.737   | 31.1    | QP  | 16.7              | -16.4         | 31.4     | 6     | 167    | Vert.  | 46.0     | 14.6   |
| 432.013   | 27.6    | QP  | 17.7              | -16.5         | 28.8     | 99    | 100    | Hori.  | 46.0     | 17.2   |
| 432.000   | 32.2    | QP  | 17.7              | -16.5         | 33.4     | 355   | 100    | Vert.  | 46.0     | 12.6   |
| 464.128   | 23.4    | QP  | 17.8              | -16.5         | 24.7     | 297   | 100    | Hori.  | 46.0     | 21.3   |
| 465.531   | 29.9    | QP  | 17.8              | -16.5         | 31.2     | 163   | 100    | Vert.  | 46.0     | 14.8   |
| 565.131   | 29.0    | QP  | 18.7              | -16.2         | 31.5     | 128   | 100    | Vert.  | 46.0     | 14.5   |
| 569.339   | 23.9    | QP  | 18.7              | -16.2         | 26.4     | 114   | 100    | Hori.  | 46.0     | 19.6   |

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN  
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

UL Apex Co., Ltd.  
Head Office EMC Lab.  
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN  
Telephone : +81 596 24 8116  
Facsimile : +81 596 24 8124

MF060b(01.06.05)

## Radiated Spurious Emission (30MHz-1GHz)

\* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

### DATA OF RADIATED EMISSION TEST

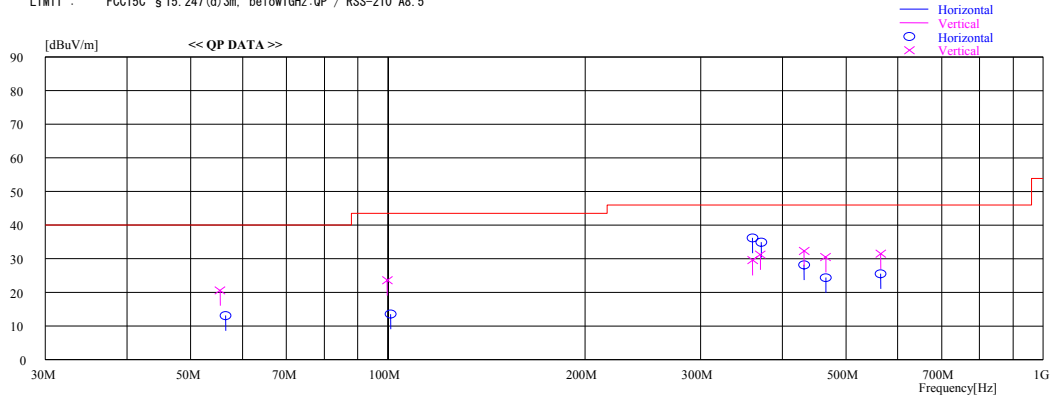
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2006/03/30 02:44:18

Applicant : FUJITSU TEN Limited  
Kind of EUT : DISPLAY  
Model No. : BT007A  
Serial No. : 26000014

Report No. : 26GE0296-HO  
Power : DC12V  
Temp./Humi. : 20deg. C / 32%  
Operator : Yasuyuki Fukui

Mode / Remarks : Bluetooth Transmitting 2441MHz

LIMIT : FCC15C §15.247(d)3m, below1GHz:QP / RSS-210 A8.5



| Frequency | Reading | DET | Antenna | Loss& | Level    | Angle | Height | Polar. | Limit    | Margin |
|-----------|---------|-----|---------|-------|----------|-------|--------|--------|----------|--------|
|           |         |     | Factor  | Gain  |          |       |        |        |          |        |
| [MHz]     | [dBuV]  |     | [dB/m]  | [dB]  | [dBuV/m] | [Deg] | [cm]   |        | [dBuV/m] | [dB]   |
| 55.431    | 31.1    | QP  | 9.5     | -20.0 | 20.6     | 262   | 100    | Vert.  | 40.0     | 19.4   |
| 56.513    | 23.8    | QP  | 9.3     | -20.0 | 13.1     | 245   | 300    | Hori.  | 40.0     | 26.9   |
| 99.800    | 32.2    | QP  | 10.5    | -19.1 | 23.6     | 5     | 100    | Vert.  | 43.5     | 19.9   |
| 100.882   | 22.1    | QP  | 10.6    | -19.1 | 13.6     | 78    | 300    | Hori.  | 43.5     | 29.9   |
| 360.321   | 36.2    | QP  | 16.4    | -16.4 | 36.2     | 40    | 100    | Hori.  | 46.0     | 9.8    |
| 360.321   | 29.6    | QP  | 16.4    | -16.4 | 29.6     | 5     | 100    | Vert.  | 46.0     | 16.4   |
| 370.140   | 30.9    | QP  | 16.7    | -16.4 | 31.2     | 3     | 160    | Vert.  | 46.0     | 14.8   |
| 371.543   | 34.5    | QP  | 16.8    | -16.4 | 34.9     | 42    | 100    | Hori.  | 46.0     | 11.1   |
| 431.863   | 27.0    | QP  | 17.7    | -16.5 | 28.2     | 88    | 100    | Hori.  | 46.0     | 17.8   |
| 431.863   | 31.1    | QP  | 17.7    | -16.5 | 32.3     | 355   | 100    | Vert.  | 46.0     | 13.7   |
| 465.531   | 23.1    | QP  | 17.8    | -16.5 | 24.4     | 290   | 100    | Hori.  | 46.0     | 21.6   |
| 465.531   | 29.2    | QP  | 17.8    | -16.5 | 30.5     | 170   | 100    | Vert.  | 46.0     | 15.5   |
| 565.131   | 23.1    | QP  | 18.7    | -16.2 | 25.6     | 114   | 100    | Hori.  | 46.0     | 20.4   |
| 565.131   | 29.0    | QP  | 18.7    | -16.2 | 31.5     | 121   | 100    | Vert.  | 46.0     | 14.5   |

CHART-WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN  
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

**Radiated Spurious Emission**  
**(30MHz-1GHz)**

\* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

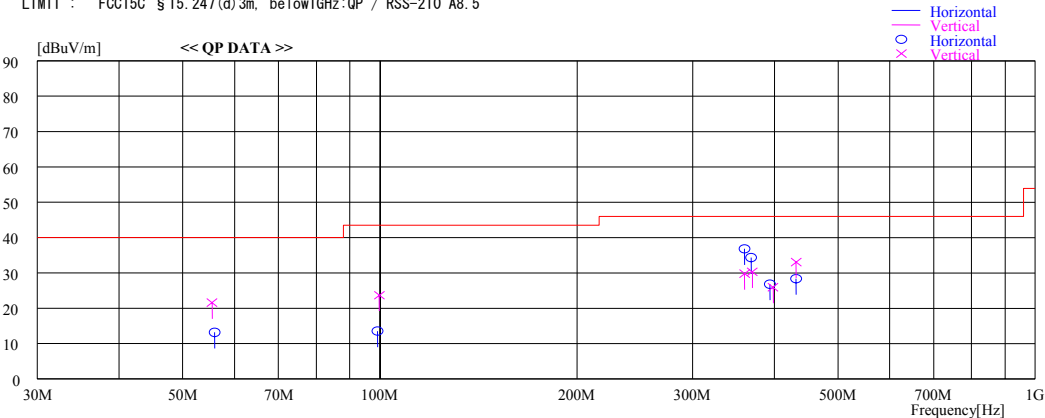
**DATA OF RADIATED EMISSION TEST**

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2006/03/30 03:13:44

Applicant : FUJITSU TEN Limited  
Kind of EUT : DISPLAY  
Model No. : BT007A  
Serial No. : 2G000014  
Report No. : 26GE0296-HO  
Power : DC12V  
Temp./Humi. : 20deg.C / 32%  
Operator : Yasuyuki Fukui

Mode / Remarks : Bluetooth Transmitting 2480MHz

LIMIT : FCC15C § 15.247(d)3m, below1GHz:QP / RSS-210 A8.5



| Frequency<br>[MHz] | Reading<br>[dBuV] | DET | Antenna          | Loss&        | Level<br>[dBuV/m] | Angle<br>[Deg] | Height<br>[cm] | Polar. | Limit<br>[dBuV/m] | Margin<br>[dB] |
|--------------------|-------------------|-----|------------------|--------------|-------------------|----------------|----------------|--------|-------------------|----------------|
|                    |                   |     | Factor<br>[dB/m] | Gain<br>[dB] |                   |                |                |        |                   |                |
| 55.431             | 32.1              | QP  | 9.5              | -20.0        | 21.6              | 253            | 100            | Vert.  | 40.0              | 18.4           |
| 55.972             | 23.8              | QP  | 9.4              | -20.0        | 13.2              | 240            | 300            | Hori.  | 40.0              | 26.8           |
| 99.259             | 22.3              | QP  | 10.4             | -19.1        | 13.6              | 80             | 300            | Hori.  | 43.5              | 29.9           |
| 99.800             | 32.3              | QP  | 10.5             | -19.1        | 23.7              | 6              | 100            | Vert.  | 43.5              | 19.8           |
| 360.321            | 36.8              | QP  | 16.4             | -16.4        | 36.8              | 52             | 100            | Hori.  | 46.0              | 9.2            |
| 360.321            | 29.8              | QP  | 16.4             | -16.4        | 29.8              | 6              | 100            | Vert.  | 46.0              | 16.2           |
| 368.737            | 34.1              | QP  | 16.7             | -16.4        | 34.4              | 10             | 100            | Hori.  | 46.0              | 11.6           |
| 370.140            | 30.0              | QP  | 16.7             | -16.4        | 30.3              | 355            | 155            | Vert.  | 46.0              | 15.7           |
| 393.988            | 25.8              | QP  | 17.5             | -16.5        | 26.8              | 356            | 100            | Hori.  | 46.0              | 19.2           |
| 398.196            | 24.8              | QP  | 17.6             | -16.4        | 26.0              | 183            | 100            | Vert.  | 46.0              | 20.0           |
| 431.863            | 27.2              | QP  | 17.7             | -16.5        | 28.4              | 98             | 100            | Hori.  | 46.0              | 17.6           |
| 431.863            | 31.9              | QP  | 17.7             | -16.5        | 33.1              | 4              | 100            | Vert.  | 46.0              | 12.9           |

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN  
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Test report No. : 26GE0296-HO-2a  
Page : 27 of 36  
Issued date : April 6, 2006  
Revised date : April 12, 2006  
FCC ID : BABBT008A

## Radiated Spurious Emission (30MHz-1GHz)

\* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

### DATA OF RADIATED EMISSION TEST

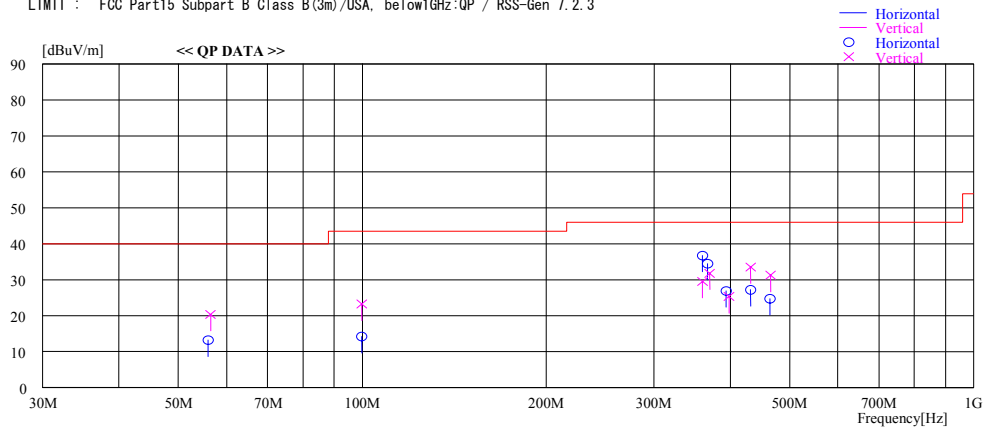
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2006/03/30 03:40:40

Applicant : FUJITSU TEN Limited  
Kind of EUT : DISPLAY  
Model No. : BT007A  
Serial No. : 26000014

Report No. : 26GE0296-HO  
Power : DC12V  
Temp./Humi. : 20deg.C / 32%  
Operator : Yasuyuki Fukui

Mode / Remarks : Bluetooth Receiving 2441MHz

LIMIT : FCC Part15 Subpart B Class B(3m)/USA, below1GHz:QP / RSS-Gen 7.2.3



| Frequency | Reading | DET | Antenna | Loss& | Level    | Polar. | Limit    | Margin |
|-----------|---------|-----|---------|-------|----------|--------|----------|--------|
|           |         |     | Factor  | Gain  |          |        |          |        |
| [MHz]     | [dBuV]  |     | [dB/m]  | [dB]  | [dBuV/m] |        | [dBuV/m] | [dB]   |
| 55.972    | 23.8    | QP  | 9.4     | -20.0 | 13.2     | Hori.  | 40.0     | 26.8   |
| 56.513    | 31.0    | QP  | 9.3     | -20.0 | 20.3     | Vert.  | 40.0     | 19.7   |
| 99.800    | 22.8    | QP  | 10.5    | -19.1 | 14.2     | Hori.  | 43.5     | 29.3   |
| 99.800    | 31.8    | QP  | 10.5    | -19.1 | 23.2     | Vert.  | 43.5     | 20.3   |
| 360.321   | 36.7    | QP  | 16.4    | -16.4 | 36.7     | Hori.  | 46.0     | 9.3    |
| 360.321   | 29.5    | QP  | 16.4    | -16.4 | 29.5     | Vert.  | 46.0     | 16.5   |
| 367.335   | 34.3    | QP  | 16.6    | -16.4 | 34.5     | Hori.  | 46.0     | 11.5   |
| 370.140   | 31.5    | QP  | 16.7    | -16.4 | 31.8     | Vert.  | 46.0     | 14.2   |
| 398.190   | 24.1    | QP  | 17.6    | -16.4 | 25.3     | Vert.  | 46.0     | 20.7   |
| 393.988   | 25.9    | QP  | 17.5    | -16.5 | 26.9     | Hori.  | 46.0     | 19.1   |
| 431.863   | 26.0    | QP  | 17.7    | -16.5 | 27.2     | Hori.  | 46.0     | 18.8   |
| 431.863   | 32.3    | QP  | 17.7    | -16.5 | 33.5     | Vert.  | 46.0     | 12.5   |
| 464.128   | 23.4    | QP  | 17.8    | -16.5 | 24.7     | Hori.  | 46.0     | 21.3   |
| 465.531   | 29.9    | QP  | 17.8    | -16.5 | 31.2     | Vert.  | 46.0     | 14.8   |

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN  
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

UL Apex Co., Ltd.  
Head Office EMC Lab.  
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN  
Telephone : +81 596 24 8116  
Facsimile : +81 596 24 8124

MF060b(01.06.05)

Test report No. : 26GE0296-HO-2a  
Page : 28 of 36  
Issued date : April 6, 2006  
Revised date : April 12, 2006  
FCC ID : BABBT008A

## Radiated Spurious Emission (1GHz-26GHz)

Company : FUJITSU TEN Limited  
Equipment : DISPLAY  
Model : BT007A  
Sample No. : 2G000014  
Power : DC 12V (Car Battery)  
Mode : Bluetooth, Tx 2402MHz(DH5)  
Remarks : Normal position  
PK DETECT (RBW: 1MHz, VBW: 1MHz)

UL Apex Co., Ltd.  
Head Office EMC Lab. No.1 Semi Anechoic Chamber  
REPORT NO : 26GE0296-HO  
REGULATION : Fcc Part15 Subpart C 15.247(d)  
TEST DISTANCE : 3/1m  
DATE : 03/26/2006 : 03/29/2006  
TEMPERATURE : 20deg.C : 20deg.C  
HUMIDITY : 32% : 32%  
ENGINEER : Kenichi Adachi : Kenichi Adachi

| No.                                                                                            | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>PK<br>[dBuV/m] | MARGIN |      |
|------------------------------------------------------------------------------------------------|---------------|-------------|------|-------------------------|---------------------|-----------------------|---------------------------|----------|------|-------------------------|--------|------|
|                                                                                                |               | HOR         | VER  |                         |                     |                       |                           | HOR      | VER  |                         | HOR    | VER  |
|                                                                                                |               | [dBuV]      |      |                         |                     |                       |                           | [dBuV/m] |      |                         | [dB]   |      |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 1                                                                                              | 1159.6        | 50.6        | 53.5 | 23.6                    | 36.8                | 1.9                   | 0.0                       | 39.3     | 42.2 | 74.0                    | 34.7   | 31.8 |
| 2                                                                                              | 2390.0        | 47.4        | 46.3 | 30.5                    | 36.3                | 2.2                   | 0.0                       | 43.8     | 42.7 | 74.0                    | 30.2   | 31.3 |
| 3*                                                                                             | 2400.0        | 77.1        | 73.0 | 30.5                    | 36.3                | 2.2                   | 0.0                       | 73.5     | 69.4 | 74.0                    | -      | -    |
| 4                                                                                              | 4804.0        | 48.3        | 52.1 | 35.3                    | 35.9                | 3.0                   | 1.4                       | 52.1     | 55.9 | 74.0                    | 21.9   | 18.1 |
| 5                                                                                              | 7206.0        | 46.3        | 46.6 | 37.6                    | 35.8                | 3.9                   | 1.2                       | 53.2     | 53.5 | 74.0                    | 20.8   | 20.5 |
| 6                                                                                              | 9608.0        | 47.0        | 47.2 | 36.6                    | 36.4                | 4.6                   | 1.0                       | 52.8     | 53.0 | 74.0                    | 21.2   | 21.0 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 7                                                                                              | 12010.0       | 50.0        | 50.7 | 40.2                    | 40.3                | 5.6                   | 1.8                       | 47.8     | 48.5 | 74.0                    | 26.2   | 25.5 |
| 8                                                                                              | 14412.0       | 49.9        | 50.3 | 42.7                    | 42.1                | 5.8                   | 0.9                       | 47.7     | 48.1 | 74.0                    | 26.3   | 25.9 |
| 9                                                                                              | 16814.0       | 50.8        | 50.8 | 45.7                    | 41.8                | 6.1                   | 1.2                       | 52.5     | 52.5 | 74.0                    | 21.5   | 21.5 |
| 10                                                                                             | 19216.0       | 46.5        | 46.5 | 39.4                    | 40.2                | 10.0                  | 0.0                       | 46.2     | 46.2 | 74.0                    | 27.8   | 27.8 |
| 11                                                                                             | 21618.0       | 43.8        | 43.8 | 39.7                    | 40.2                | 10.4                  | 0.0                       | 44.2     | 44.2 | 74.0                    | 29.8   | 29.8 |
| 12                                                                                             | 24020.0       | 44.7        | 44.7 | 39.7                    | 39.1                | 10.1                  | 0.0                       | 45.9     | 45.9 | 74.0                    | 28.1   | 28.1 |

AV DETECT (RBW: 1MHz, VBW: 10Hz)

| No.                                                                                            | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>AV<br>[dBuV/m] | MARGIN |      |
|------------------------------------------------------------------------------------------------|---------------|-------------|------|-------------------------|---------------------|-----------------------|---------------------------|----------|------|-------------------------|--------|------|
|                                                                                                |               | HOR         | VER  |                         |                     |                       |                           | HOR      | VER  |                         | HOR    | VER  |
|                                                                                                |               | [dBuV]      |      |                         |                     |                       |                           | [dBuV/m] |      |                         | [dB]   |      |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 1                                                                                              | 1159.6        | 38.2        | 43.6 | 23.6                    | 36.8                | 1.9                   | 0.0                       | 26.9     | 32.3 | 54.0                    | 27.1   | 21.7 |
| 2                                                                                              | 2390.0        | 33.4        | 33.1 | 30.5                    | 36.3                | 2.2                   | 0.0                       | 29.8     | 29.5 | 54.0                    | 24.2   | 24.5 |
| 3*                                                                                             | 2400.0        | 65.5        | 62.2 | 30.5                    | 36.3                | 2.2                   | 0.0                       | 61.9     | 58.6 | 54.0                    | -      | -    |
| 4                                                                                              | 4804.0        | 39.6        | 44.9 | 35.3                    | 35.9                | 3.0                   | 1.4                       | 43.4     | 48.7 | 54.0                    | 10.6   | 5.3  |
| 5                                                                                              | 7206.0        | 32.5        | 32.5 | 37.6                    | 35.8                | 3.9                   | 1.2                       | 39.4     | 39.4 | 54.0                    | 14.6   | 14.6 |
| 6                                                                                              | 9608.0        | 34.6        | 34.6 | 36.6                    | 36.4                | 4.6                   | 1.0                       | 40.4     | 40.4 | 54.0                    | 13.6   | 13.6 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 7                                                                                              | 12010.0       | 37.3        | 37.3 | 40.2                    | 40.3                | 5.6                   | 1.8                       | 35.1     | 35.1 | 54.0                    | 18.9   | 18.9 |
| 8                                                                                              | 14412.0       | 37.2        | 37.0 | 42.7                    | 42.1                | 5.8                   | 0.9                       | 35.0     | 34.8 | 54.0                    | 19.0   | 19.2 |
| 9                                                                                              | 16814.0       | 37.2        | 37.2 | 45.7                    | 41.8                | 6.1                   | 1.2                       | 38.9     | 38.9 | 54.0                    | 15.1   | 15.1 |
| 10                                                                                             | 19216.0       | 31.9        | 31.9 | 39.4                    | 40.2                | 10.0                  | 0.0                       | 31.6     | 31.6 | 54.0                    | 22.4   | 22.4 |
| 11                                                                                             | 21618.0       | 32.3        | 32.3 | 39.7                    | 40.2                | 10.4                  | 0.0                       | 32.7     | 32.7 | 54.0                    | 21.3   | 21.3 |
| 12                                                                                             | 24020.0       | 32.2        | 32.2 | 39.7                    | 39.1                | 10.1                  | 0.0                       | 33.4     | 33.4 | 54.0                    | 20.6   | 20.6 |

\* Reference data

20dBc(Fundamental 2402MHz) (RBW: 100kHz, VBW: 300kHz)

| No.                                                                                     | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT          |      | Limit<br>20dBc<br>[dBuV/m] | MARGIN      |             |
|-----------------------------------------------------------------------------------------|---------------|-------------|------|-------------------------|---------------------|-----------------------|---------------------------|-----------------|------|----------------------------|-------------|-------------|
|                                                                                         |               | HOR         | VER  |                         |                     |                       |                           | HOR<br>[dBuV/m] | VER  |                            | HOR<br>[dB] | VER<br>[dB] |
|                                                                                         |               | [dBuV]      |      |                         |                     |                       |                           |                 |      |                            |             |             |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss |               |             |      |                         |                     |                       |                           |                 |      |                            |             |             |
| 0                                                                                       | 2402.0        | 101.6       | 98.1 | 30.5                    | 36.3                | 2.2                   | 0.0                       | 98.0            | 94.5 | -                          | -           | -           |
| 3                                                                                       | 2400.0        | 46.3        | 43.9 | 30.5                    | 36.3                | 2.2                   | 0.0                       | 42.7            | 40.3 | Funda-20dB                 | 35.3        | 34.2        |

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

\*Except for the above table : All other spurious emissions were less than 20dB for the limit.

\*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

\*Hi-Pass Filter was not used for factor 0.0dB of the above table.

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

Test report No. : 26GE0296-HO-2a  
Page : 29 of 36  
Issued date : April 6, 2006  
Revised date : April 12, 2006  
FCC ID : BABBT008A

## Radiated Spurious Emission (1GHz-26GHz)

UL Apex Co., Ltd.  
Head Office EMC Lab. No.1 Semi Anechoic Chamber

|                                   |                                             |
|-----------------------------------|---------------------------------------------|
| Company : FUJITSU TEN Limited     | REPORT NO : 26GE0296-HO                     |
| Equipment : DISPLAY               | REGULATION : Fcc Part15 Subpart C 15.247(d) |
| Model : BT007A                    | TEST DISTANCE : 3/1m                        |
| Sample No. : 2G000014             | DATE : 03/26/2006 : 03/29/2006              |
| Power : DC 12V (Car Battery)      | TEMPERATURE : 20deg.C : 20deg.C             |
| Mode : Bluetooth, Tx 2441MHz(DH5) | HUMIDITY : 32% : 32%                        |
| Remarks : Normal position         | ENGINEER : Kenichi Adachi : Kenichi Adachi  |

**PK DETECT** (RBW: 1MHz, VBW: 1MHz)

| PK DETECT (KdW: 1MHz, BkW: 1MHz)                                                               |                   |             |      |                         |                     |                       |                           |          |      |                         |        |      |
|------------------------------------------------------------------------------------------------|-------------------|-------------|------|-------------------------|---------------------|-----------------------|---------------------------|----------|------|-------------------------|--------|------|
| No.                                                                                            | FREQ<br><br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>PK<br>[dBuV/m] | MARGIN |      |
|                                                                                                |                   | HOR         | VER  |                         |                     |                       |                           | HOR      | VER  |                         | HOR    | VER  |
|                                                                                                |                   | [dBuV]      |      |                         |                     |                       |                           | [dBuV/m] |      |                         | [dB]   |      |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |                   |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 1                                                                                              | 1449.5            | 49.5        | 50.3 | 24.3                    | 36.6                | 2.0                   | 0.0                       | 39.2     | 40.0 | 74.0                    | 34.8   | 34.0 |
| 2                                                                                              | 4882.0            | 50.3        | 54.1 | 35.6                    | 35.9                | 3.0                   | 1.4                       | 54.4     | 58.2 | 74.0                    | 19.6   | 15.8 |
| 3                                                                                              | 7323.0            | 46.6        | 46.2 | 37.7                    | 35.8                | 3.9                   | 1.1                       | 53.5     | 53.1 | 74.0                    | 20.5   | 20.9 |
| 4                                                                                              | 9764.0            | 46.3        | 47.0 | 36.5                    | 36.5                | 4.6                   | 1.1                       | 52.0     | 52.7 | 74.0                    | 22.0   | 21.3 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |                   |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 5                                                                                              | 12205.0           | 50.0        | 50.4 | 40.3                    | 40.6                | 5.6                   | 1.7                       | 47.5     | 47.9 | 74.0                    | 26.5   | 26.1 |
| 6                                                                                              | 14646.0           | 48.1        | 48.6 | 42.8                    | 41.8                | 5.8                   | 0.8                       | 46.2     | 46.7 | 74.0                    | 27.8   | 27.3 |
| 7                                                                                              | 17087.0           | 49.0        | 49.5 | 46.2                    | 41.8                | 6.2                   | 1.3                       | 51.4     | 51.9 | 74.0                    | 22.6   | 22.1 |
| 8                                                                                              | 19528.0           | 45.5        | 45.5 | 39.6                    | 40.1                | 10.1                  | 0.0                       | 45.6     | 45.6 | 74.0                    | 28.4   | 28.4 |
| 9                                                                                              | 21969.0           | 48.1        | 48.1 | 40.1                    | 40.1                | 10.5                  | 0.0                       | 49.1     | 49.1 | 74.0                    | 24.9   | 24.9 |
| 10                                                                                             | 24410.0           | 44.1        | 44.1 | 39.8                    | 39.7                | 10.2                  | 0.0                       | 44.9     | 44.9 | 74.0                    | 29.1   | 29.1 |

**AV DETECT** (RBW: 1MHz, VBW: 10Hz)

| No.                                                                                            | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>AV<br>[dBuV/m] | MARGIN |      |
|------------------------------------------------------------------------------------------------|---------------|-------------|------|-------------------------|---------------------|-----------------------|---------------------------|----------|------|-------------------------|--------|------|
|                                                                                                |               | HOR         | VER  |                         |                     |                       |                           | HOR      | VER  |                         | HOR    | VER  |
|                                                                                                |               | [dBuV]      |      |                         |                     |                       |                           | [dBuV/m] |      |                         | [dB]   |      |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 1                                                                                              | 1449.5        | 35.7        | 38.3 | 24.3                    | 36.6                | 2.0                   | 0.0                       | 25.4     | 28.0 | 54.0                    | 28.6   | 26.0 |
| 2                                                                                              | 4882.0        | 41.5        | 46.9 | 35.6                    | 35.9                | 3.0                   | 1.4                       | 45.6     | 51.0 | 54.0                    | 8.4    | 3.0  |
| 3                                                                                              | 7323.0        | 32.8        | 33.2 | 37.7                    | 35.8                | 3.9                   | 1.1                       | 39.7     | 40.1 | 54.0                    | 14.3   | 13.9 |
| 4                                                                                              | 9764.0        | 33.0        | 34.0 | 36.5                    | 36.5                | 4.6                   | 1.1                       | 38.7     | 39.7 | 54.0                    | 15.3   | 14.3 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 5                                                                                              | 12205.0       | 36.9        | 36.9 | 40.3                    | 40.6                | 5.6                   | 1.7                       | 34.4     | 34.4 | 54.0                    | 19.6   | 19.6 |
| 6                                                                                              | 14646.0       | 35.7        | 35.8 | 42.8                    | 41.8                | 5.8                   | 0.8                       | 33.8     | 33.9 | 54.0                    | 20.2   | 20.1 |
| 7                                                                                              | 17087.0       | 36.4        | 36.4 | 46.2                    | 41.8                | 6.2                   | 1.3                       | 38.8     | 38.8 | 54.0                    | 15.2   | 15.2 |
| 8                                                                                              | 19528.0       | 31.5        | 31.5 | 39.6                    | 40.1                | 10.1                  | 0.0                       | 31.6     | 31.6 | 54.0                    | 22.4   | 22.4 |
| 9                                                                                              | 21969.0       | 34.4        | 34.4 | 40.1                    | 40.1                | 10.5                  | 0.0                       | 35.4     | 35.4 | 54.0                    | 18.6   | 18.6 |
| 10                                                                                             | 24410.0       | 31.7        | 31.7 | 39.8                    | 39.7                | 10.2                  | 0.0                       | 32.5     | 32.5 | 54.0                    | 21.5   | 21.5 |

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

\*Except for the above table : All other spurious emissions were less than 20dB for the limit.

\*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

\*Hi-Pass Filter was not used for factor 0.0dB of the above table.

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

## Radiated Spurious Emission (1GHz-26GHz)

UL Apex Co., Ltd.

Head Office EMC Lab. No.1 Semi Anechoic Chamber

Company : FUJITSU TEN Limited  
Equipment : DISPLAY  
Model : BT007A  
Sample No. : 2G000014  
Power : DC 12V (Car Battery)  
Mode : Bluetooth, Tx 2480MHz(DH5)  
Remarks : Normal position

REPORT NO : 26GE0296-HO  
REGULATION : Fcc Part15 Subpart C 15.247(d)  
TEST DISTANCE : 3/1m  
DATE : 03/26/2006 : 03/29/2006  
TEMPERATURE : 20deg.C : 20deg.C  
HUMIDITY : 32% : 32%  
ENGINEER : Kenichi Adachi : Kenichi Adachi

### PK DETECT (RBW: 1MHz, VBW: 1MHz)

| K DETECT (KDB, MHz, EDW, MHz)                                                                  |                   |             |      |                         |                     |                       |                           |          |      |                         |        |      |
|------------------------------------------------------------------------------------------------|-------------------|-------------|------|-------------------------|---------------------|-----------------------|---------------------------|----------|------|-------------------------|--------|------|
| No.                                                                                            | FREQ<br><br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>PK<br>[dBuV/m] | MARGIN |      |
|                                                                                                |                   | HOR         | VER  |                         |                     |                       |                           | HOR      | VER  |                         | HOR    | VER  |
|                                                                                                |                   | [dBuV]      |      |                         |                     |                       |                           | [dBuV/m] |      |                         | [dB]   |      |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |                   |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 1                                                                                              | 1159.6            | 51.7        | 53.9 | 23.6                    | 36.8                | 1.9                   | 0.0                       | 40.4     | 42.6 | 74.0                    | 33.6   | 31.4 |
| 2                                                                                              | 2483.5            | 54.8        | 50.4 | 30.3                    | 36.3                | 2.1                   | 0.0                       | 50.9     | 46.5 | 74.0                    | 23.1   | 27.5 |
| 3                                                                                              | 4960.0            | 52.4        | 54.1 | 35.9                    | 35.8                | 3.0                   | 1.4                       | 56.9     | 58.6 | 74.0                    | 17.1   | 15.4 |
| 4                                                                                              | 7440.0            | 46.7        | 47.7 | 37.8                    | 35.8                | 4.0                   | 1.1                       | 53.8     | 54.8 | 74.0                    | 20.2   | 19.2 |
| 5                                                                                              | 9920.0            | 47.5        | 47.2 | 36.3                    | 36.6                | 4.7                   | 1.2                       | 53.1     | 52.8 | 74.0                    | 20.9   | 21.2 |
| Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |                   |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 6                                                                                              | 12400.0           | 50.1        | 50.2 | 40.4                    | 41.0                | 5.6                   | 1.6                       | 47.2     | 47.3 | 74.0                    | 26.8   | 26.7 |
| 7                                                                                              | 14880.0           | 50.2        | 49.9 | 43.0                    | 41.5                | 5.8                   | 0.9                       | 48.9     | 48.6 | 74.0                    | 25.1   | 25.4 |
| 8                                                                                              | 17360.0           | 50.0        | 50.9 | 46.5                    | 42.0                | 6.2                   | 1.7                       | 52.9     | 53.8 | 74.0                    | 21.1   | 20.2 |
| 9                                                                                              | 19840.0           | 43.8        | 43.8 | 39.4                    | 40.0                | 10.1                  | 0.0                       | 43.8     | 43.8 | 74.0                    | 30.2   | 30.2 |
| 10                                                                                             | 22320.0           | 44.3        | 44.3 | 40.1                    | 39.9                | 10.4                  | 0.0                       | 45.4     | 45.4 | 74.0                    | 28.6   | 28.6 |
| 11                                                                                             | 24800.0           | 44.5        | 44.5 | 40.0                    | 40.2                | 10.3                  | 0.0                       | 45.1     | 45.1 | 74.0                    | 28.9   | 28.9 |

### AV DETECT (RBW: 1MHz, VBW: 10Hz)

| No.                                                                                               | FREQ<br><br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>AV<br>[dBuV/m] | MARGIN |      |
|---------------------------------------------------------------------------------------------------|-------------------|-------------|------|-------------------------|---------------------|-----------------------|---------------------------|----------|------|-------------------------|--------|------|
|                                                                                                   |                   | HOR         | VER  |                         |                     |                       |                           | HOR      | VER  |                         | HOR    | VER  |
|                                                                                                   |                   | [dBuV]      |      |                         |                     |                       |                           | [dBuV/m] |      |                         | [dB]   |      |
| Test distance 3meters    RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss        |                   |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 1                                                                                                 | 1159.6            | 39.6        | 44.1 | 23.6                    | 36.8                | 1.9                   | 0.0                       | 28.3     | 32.8 | 54.0                    | 25.7   | 21.2 |
| 2                                                                                                 | 2483.5            | 47.2        | 43.6 | 30.3                    | 36.3                | 2.1                   | 0.0                       | 43.3     | 39.7 | 54.0                    | 10.7   | 14.3 |
| 3                                                                                                 | 4960.0            | 45.1        | 47.4 | 35.9                    | 35.8                | 3.0                   | 1.4                       | 49.6     | 51.9 | 54.0                    | 4.4    | 2.1  |
| 4                                                                                                 | 7440.0            | 32.9        | 32.9 | 37.8                    | 35.8                | 4.0                   | 1.1                       | 40.0     | 40.0 | 54.0                    | 14.0   | 14.0 |
| 5                                                                                                 | 9920.0            | 33.2        | 34.9 | 36.3                    | 36.6                | 4.7                   | 1.2                       | 38.8     | 40.5 | 54.0                    | 15.2   | 13.5 |
| Test distance 1meters    RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac |                   |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 6                                                                                                 | 12400.0           | 37.6        | 37.5 | 40.4                    | 41.0                | 5.6                   | 1.6                       | 34.7     | 34.6 | 54.0                    | 19.3   | 19.4 |
| 7                                                                                                 | 14880.0           | 36.6        | 37.0 | 43.0                    | 41.5                | 5.8                   | 0.9                       | 35.3     | 35.7 | 54.0                    | 18.7   | 18.3 |
| 8                                                                                                 | 17360.0           | 37.0        | 37.0 | 46.5                    | 42.0                | 6.2                   | 1.7                       | 39.9     | 39.9 | 54.0                    | 14.1   | 14.1 |
| 9                                                                                                 | 19840.0           | 31.9        | 31.9 | 39.4                    | 40.0                | 10.1                  | 0.0                       | 31.9     | 31.9 | 54.0                    | 22.1   | 22.1 |
| 10                                                                                                | 22320.0           | 33.4        | 33.4 | 40.1                    | 39.9                | 10.4                  | 0.0                       | 34.5     | 34.5 | 54.0                    | 19.5   | 19.5 |
| 11                                                                                                | 24800.0           | 33.2        | 33.2 | 40.0                    | 40.2                | 10.3                  | 0.0                       | 33.8     | 33.8 | 54.0                    | 20.2   | 20.2 |

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

\*Except for the above table : All other spurious emissions were less than 20dB for the limit.

\*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

\*Hi-Pass Filter was not used for factor 0.0dB of the above table.

**UL Apex Co., Ltd.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

## Radiated Spurious Emission (1GHz-26GHz)

### DATA OF SPURIOUS EMISSIONS(1GHz to 26GHz)

UL Apex Co., Ltd.  
Head Office EMC Lab. No.1 Semi Anechoic Chamber

|                                   |                                                   |  |
|-----------------------------------|---------------------------------------------------|--|
| Company : FUJITSU TEN Limited     | REPORT NO : 26GE0296-HO                           |  |
| Equipment : DISPLAY               | REGULATION : Fcc Part15 Subpart B / RSS-Gen 7.2.3 |  |
| Model : BT007A                    | TEST DISTANCE : 3/1m                              |  |
| Sample No. : 2G000014             | DATE : 03/262006                                  |  |
| Power : DC 12V (Car Battery)      | TEMPERATURE : 20deg.C                             |  |
| Mode : Bluetooth, Rx 2441MHz(DH5) | HUMIDITY : 32%                                    |  |
| Remarks : Normal position         | ENGINEER : Kenichi Adachi                         |  |

**PK DETECT** (RBW: 1MHz, VBW: 1MHz)

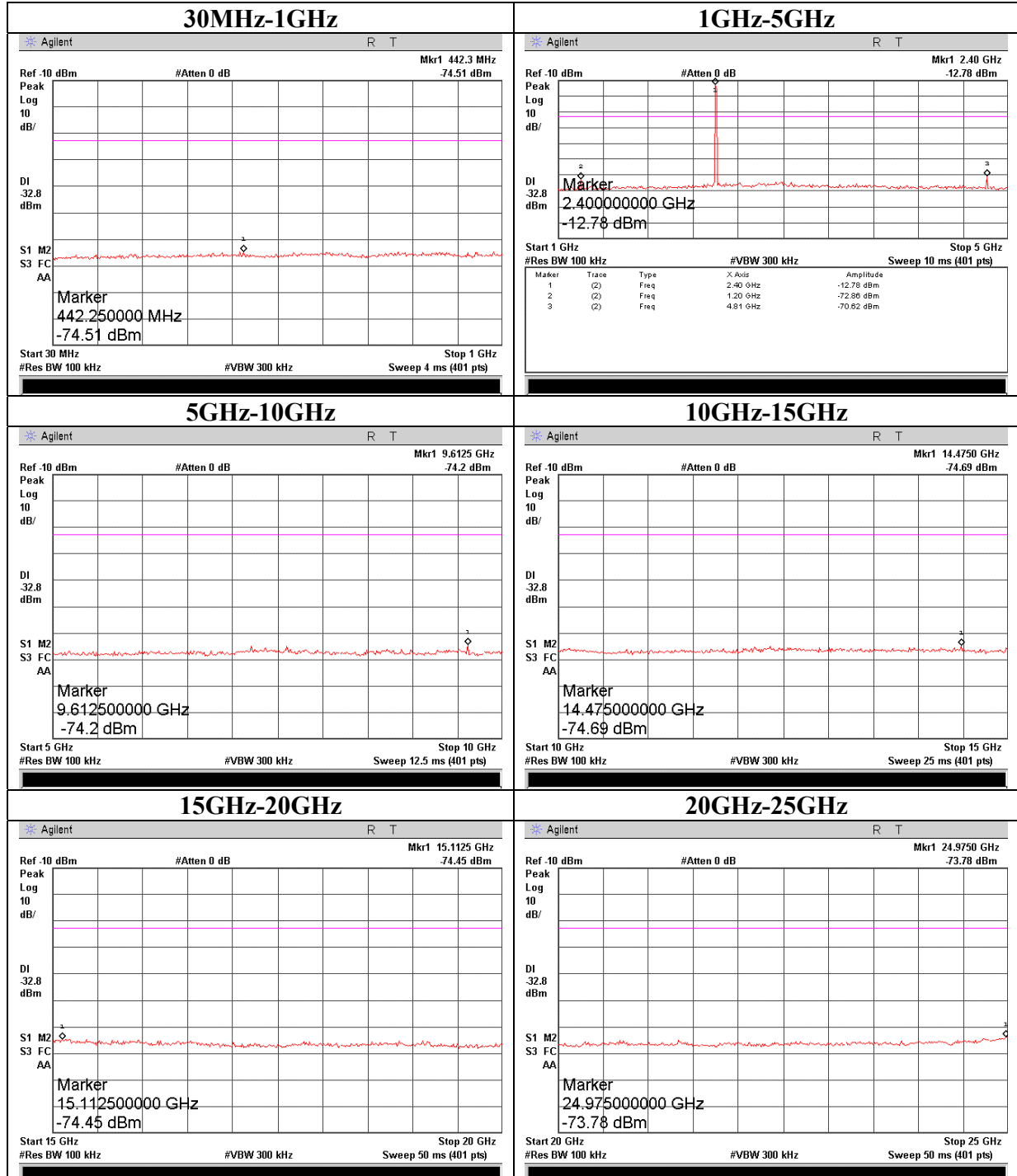
| No.                                                                                     | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>PK<br>[dBuV/m] | MARGIN |      |
|-----------------------------------------------------------------------------------------|---------------|-------------|------|-------------------------|---------------------|-----------------------|---------------------------|----------|------|-------------------------|--------|------|
|                                                                                         |               | HOR         | VER  |                         |                     |                       |                           | HOR      | VER  |                         | HOR    | VER  |
|                                                                                         |               | [dBuV]      |      |                         |                     |                       |                           | [dBuV/m] |      |                         | [dB]   |      |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 1                                                                                       | 1159.6        | 53.3        | 58.3 | 23.6                    | 41.4                | 1.9                   | 0.0                       | 37.4     | 42.4 | 74.0                    | 36.6   | 31.6 |
| 2                                                                                       | 2460.0        | 58.5        | 57.1 | 30.4                    | 41.3                | 2.0                   | 0.0                       | 49.6     | 48.2 | 74.0                    | 24.4   | 25.8 |

**AV DETECT** (RBW: 1MHz, VBW: 10Hz)

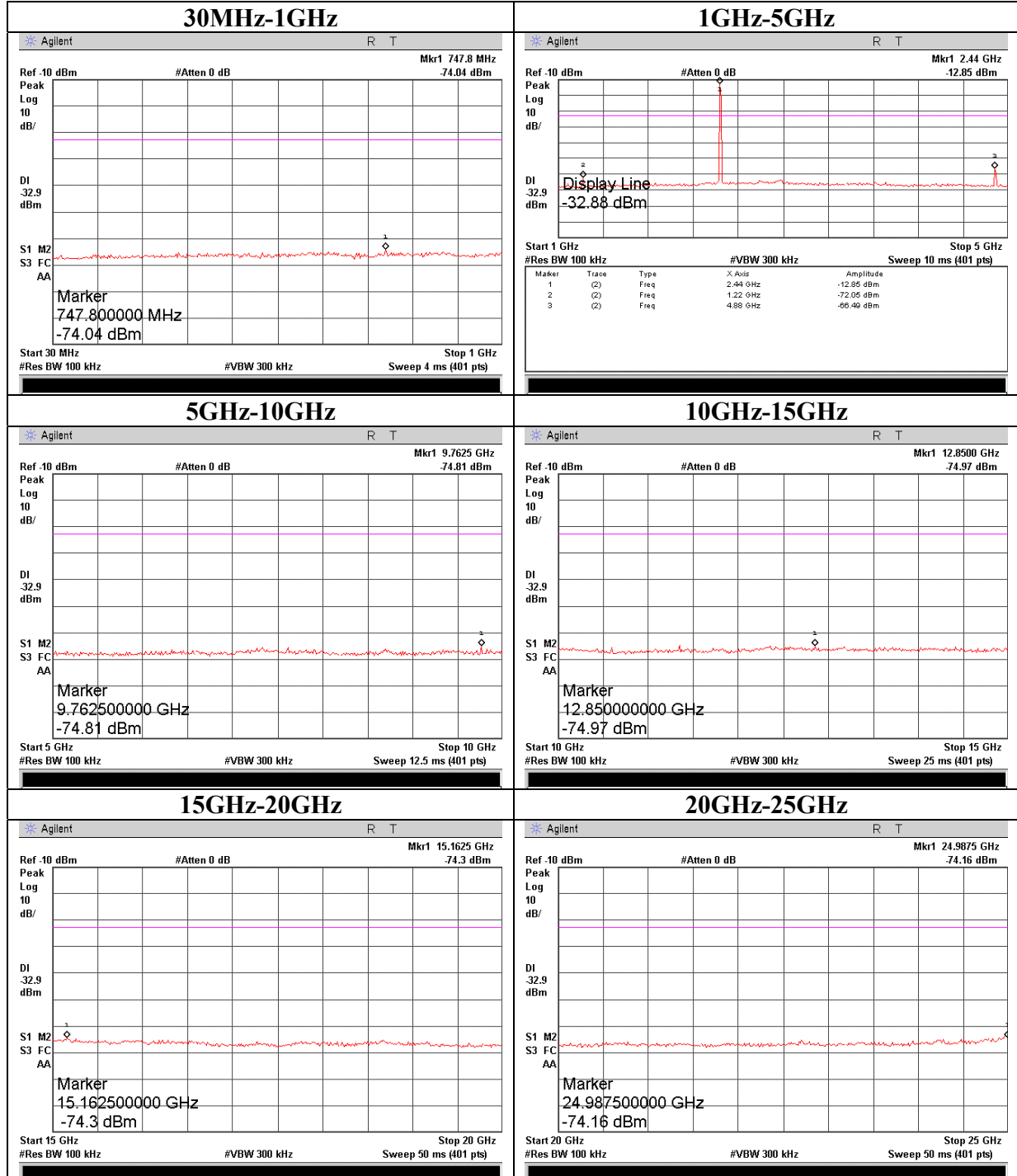
| No.                                                                                     | FREQ<br>[MHz] | S/A READING |      | ANT<br>Factor<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | Hi-Pass<br>Filter<br>[dB] | RESULT   |      | Limit<br>AV<br>[dBuV/m] | MARGIN |      |
|-----------------------------------------------------------------------------------------|---------------|-------------|------|-------------------------|---------------------|-----------------------|---------------------------|----------|------|-------------------------|--------|------|
|                                                                                         |               | HOR         | VER  |                         |                     |                       |                           | HOR      | VER  |                         | HOR    | VER  |
|                                                                                         |               | [dBuV]      |      |                         |                     |                       |                           | [dBuV/m] |      |                         | [dB]   |      |
| Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss |               |             |      |                         |                     |                       |                           |          |      |                         |        |      |
| 1                                                                                       | 1159.6        | 41.1        | 49.1 | 23.6                    | 41.4                | 1.9                   | 0.0                       | 25.2     | 33.2 | 54.0                    | 28.8   | 20.8 |
| 2                                                                                       | 2460.0        | 56.3        | 51.6 | 30.4                    | 41.3                | 2.0                   | 0.0                       | 47.4     | 42.7 | 54.0                    | 6.6    | 11.3 |

\*Except for the above table : All other spurious emissions were less than 20dB for the limit.  
\*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.  
\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.  
\*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

**Conducted Spurious Emission**  
**Ch:Low**

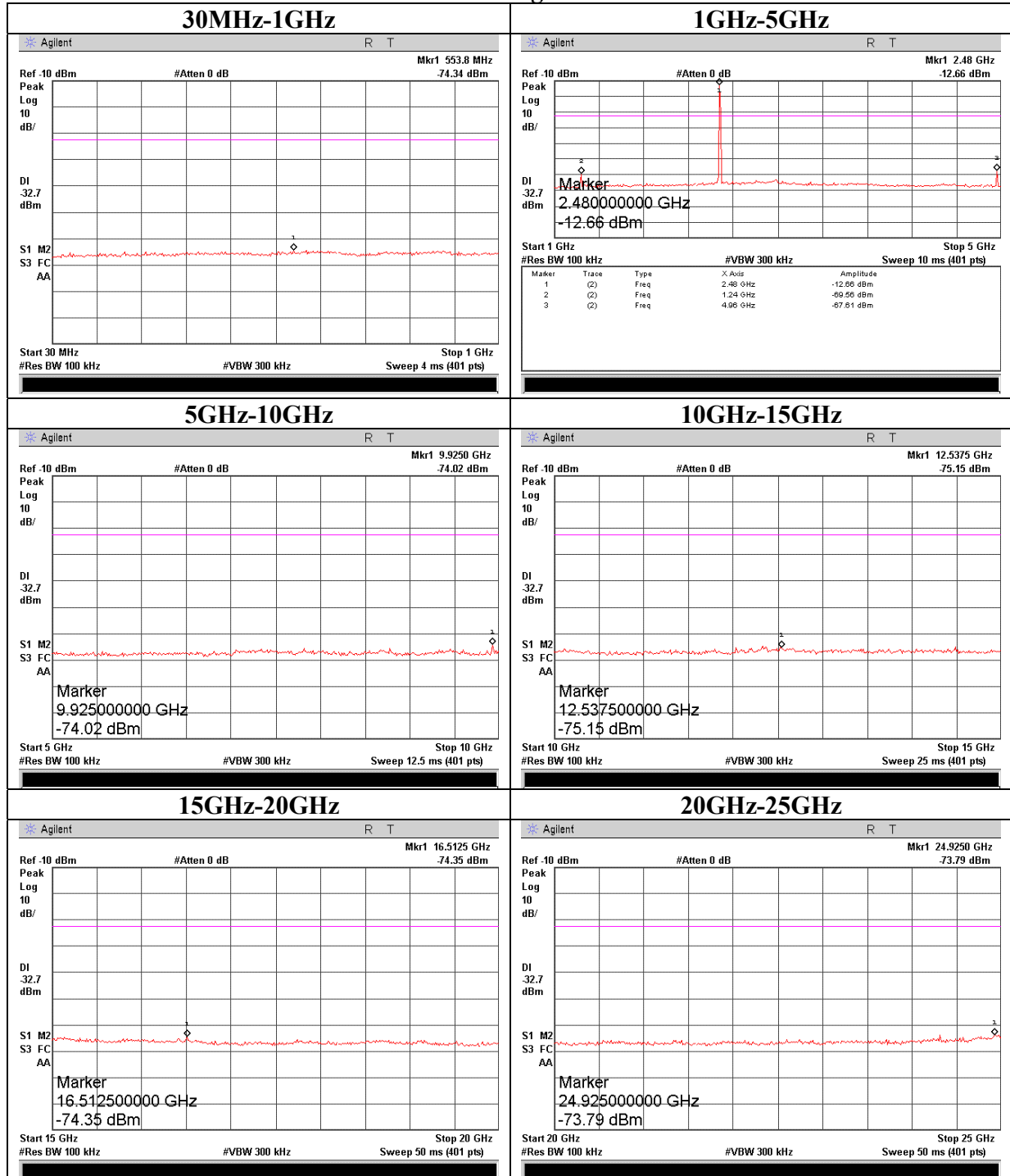


**Conducted Spurious Emission**  
**Ch:Mid**

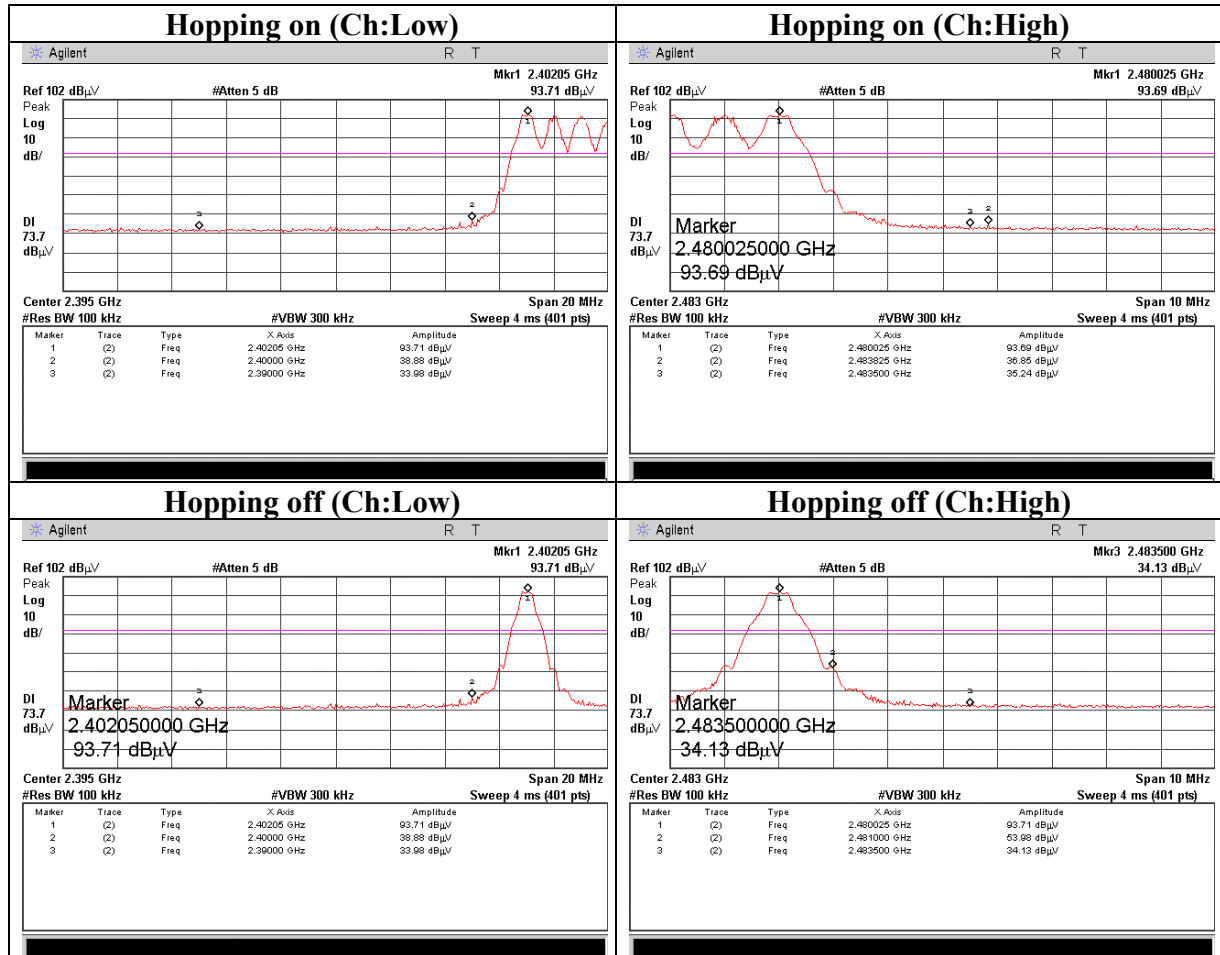


## Conducted Spurious Emission

Ch:High



**Conducted Spurious Emission**  
**Band Edge compliance**



99% Occupied Bandwidth

