



# 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.**

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## **SECTION 1: Client information**

Company Name : FUJITSU TEN Limited  
Brand Name : FUJITSU TEN  
Address : 2-28 Goshō-Dori 1-chōme, Hyōgo-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)  
BT007A (Tested model) \*  
Serial No. : 2G000014  
Country of Manufacture : Japan  
Condition of EUT : Production prototype  
(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) 12.079MHz,14.549MHz (CPU), 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) 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

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### **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  
Section 15.207 Conducted limits: 2006  
Section 15.247 Operation within the bands 902-928MHz, 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.

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### 3.2 Procedures and results

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst Margin*0)	Results
1	Conducted Emission	FCC: ANSI C63.4:2003 7. AC powerline conducted emission measurements IC: RSS-Gen 7.2.2	FCC: Section 15.207 IC: RSS-Gen 7.2.2	-	N/A	N/A	N/A*1)
2	Carrier Frequency Separation	FCC: ANSI C63.4:2003 13. Measurement of intentional radiators IC: -	FCC: Section15.247(a)(1) IC: RSS-210 A8.1 (2)	Conducted	N/A	See data.	Complied
3	20dB Bandwidth	FCC: ANSI C63.4:2003 13. Measurement of intentional radiators IC: -	FCC: Section15.247(a)(1) IC: RSS-210 A8.1 (1)	Conducted	N/A		Complied
4	Number of Hopping Frequency	FCC: ANSI C63.4:2003 13. Measurement of intentional radiators IC: -	FCC: Section15.247(a)(1)(iii) IC: RSS-210 A8.1 (4)	Conducted	N/A		Complied
5	Dwell time	FCC: ANSI C63.4:2003 13. Measurement of intentional radiators IC: -	FCC: Section15.247(a)(1)(iii) IC: RSS-210 A8.1 (4)	Conducted	N/A		Complied
6	Maximum Peak Output Power	FCC: ANSI C63.4:2003 13. Measurement of intentional radiators IC: RSS-Gen 4.6	FCC: Section15.247(b)(1) IC: RSS-210 A8.4 (2)	Conducted	N/A		Complied
7	Band Edge Compliance	FCC: ANSI C63.4:2003 13. Measurement of intentional radiators IC: -	FCC: Section15.247(d) IC: RSS-210 A8.5	Conducted	N/A		Complied
8	Spurious Emission	FCC: ANSI C63.4:2003 13. Measurement of intentional radiators IC: RSS-Gen 4.7 and 4.8	FCC: Section15.247(d) IC: RSS-210 A8.5 RSS-Gen 7.2.1 and 7.2.3	Conducted Radiated	N/A		[Tx] 2.1dB 4960.0MHz, Ver, AV, Ch: High [Rx] 6.6dB 2460.0MHz Hor, AV

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

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### 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  
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	FCC Registration Number	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms
No.1 semi-anechoic chamber	313583	IC4247A	19.2 x 11.2 x 7.7m	7.0 x 6.0m	Preparation room
No.2 semi-anechoic chamber	846015	IC4247A-2	7.5 x 5.8 x 5.2m	4.0 x 4.0m	-
No.3 measurement room	-	-	4.0 x 6.0 x 2.7m	N/A	-
No.4 measurement 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 room	-	-	4.0 x 4.5 x 2.7m	N/A	-
No.6 preparation 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 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.

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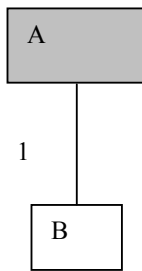
**SECTION 4: Operation of E.U.T. during testing**

**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



**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 VBW: 300kHz (S/A)	AV: RBW:1MHz/VBW:10Hz 20dBc : RBW:100kHz/VBW:300kHz

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

**Test data** : APPENDIX 3  
**Test result** : Pass

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## **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

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**APPENDIX 1: Photographs of test setup**

**Spurious Emission (Radiated)**

**Front**



**Rear**



## APPENDIX 2: Test instruments

### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
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 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2005/08/30 * 12
MCC-18	Microwave Cable 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 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)( above1GHz)	Agilent	8493C	AT	2005/06/03 * 12
MCC-06	Microwave Cable 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 1G-50GHz	Storm	421-011 ( 90- 1394-079 )	RE	2006/01/04 * 12
MCC-27	Microwave Cable 1G-50GHz	Suhner	SUCOFLEX101	RE	2005/08/30 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800		2004/11/25 * 24
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2005/10/10 * 12
MLA-01	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2005/10/14 * 12
MCC-01	Coaxial Cable 0.1- 3000MHz	Suhner/storm/Agil 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

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### APPENDIX 3: Data of EMI test

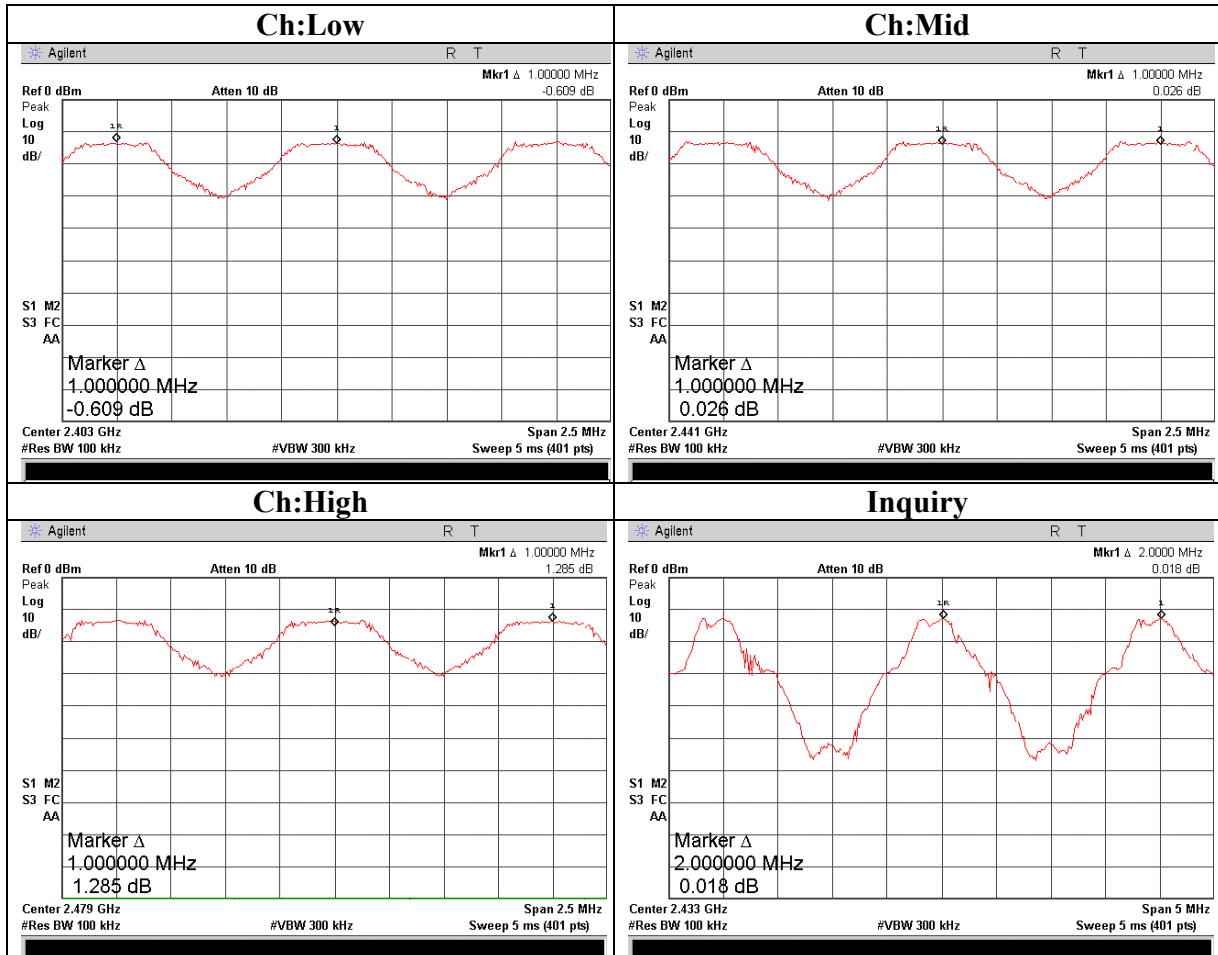
#### Carrier Frequency Separation

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. [MHz]	Channel separation [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

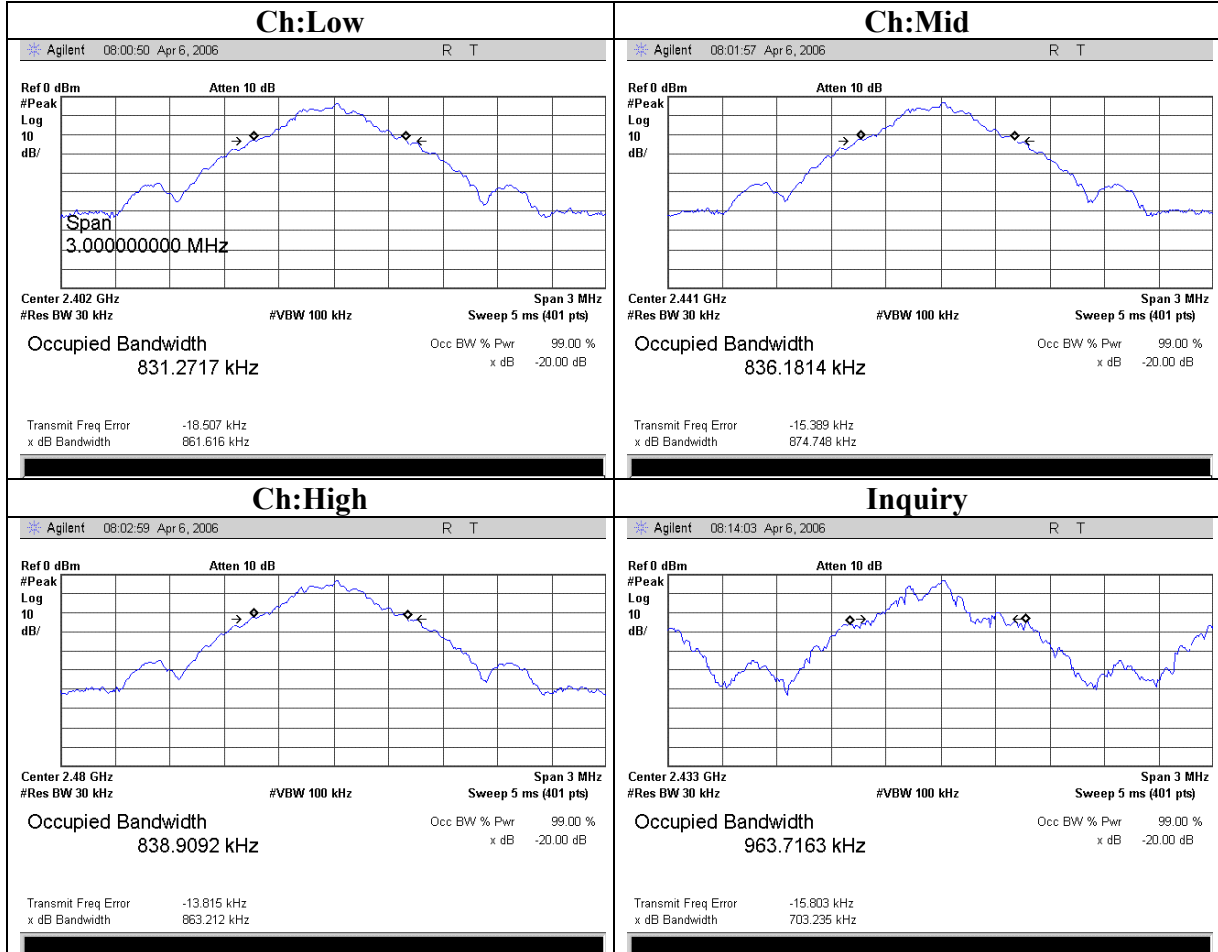
UL Apex Co., Ltd.  
Head Office EMC Lab. No.7 Shielded Room

COMPANY : FUJITSU TEN Limited  
EQUIPMENT : DISPLAY  
MODEL : BT007A  
S/ N : 2G000014  
POWER : DC12V  
MODE : Tx(Hopping off)/Inquiry

REGULATION : FCC Part15 Subpart C 15.247(a)(1)  
TEST DISTANCE : -  
DATE : 03/27/2006  
TEMPERATURE : 25deg.C  
HUMIDITY : 41%  
ENGINEER : Kenichi Adachi

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [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

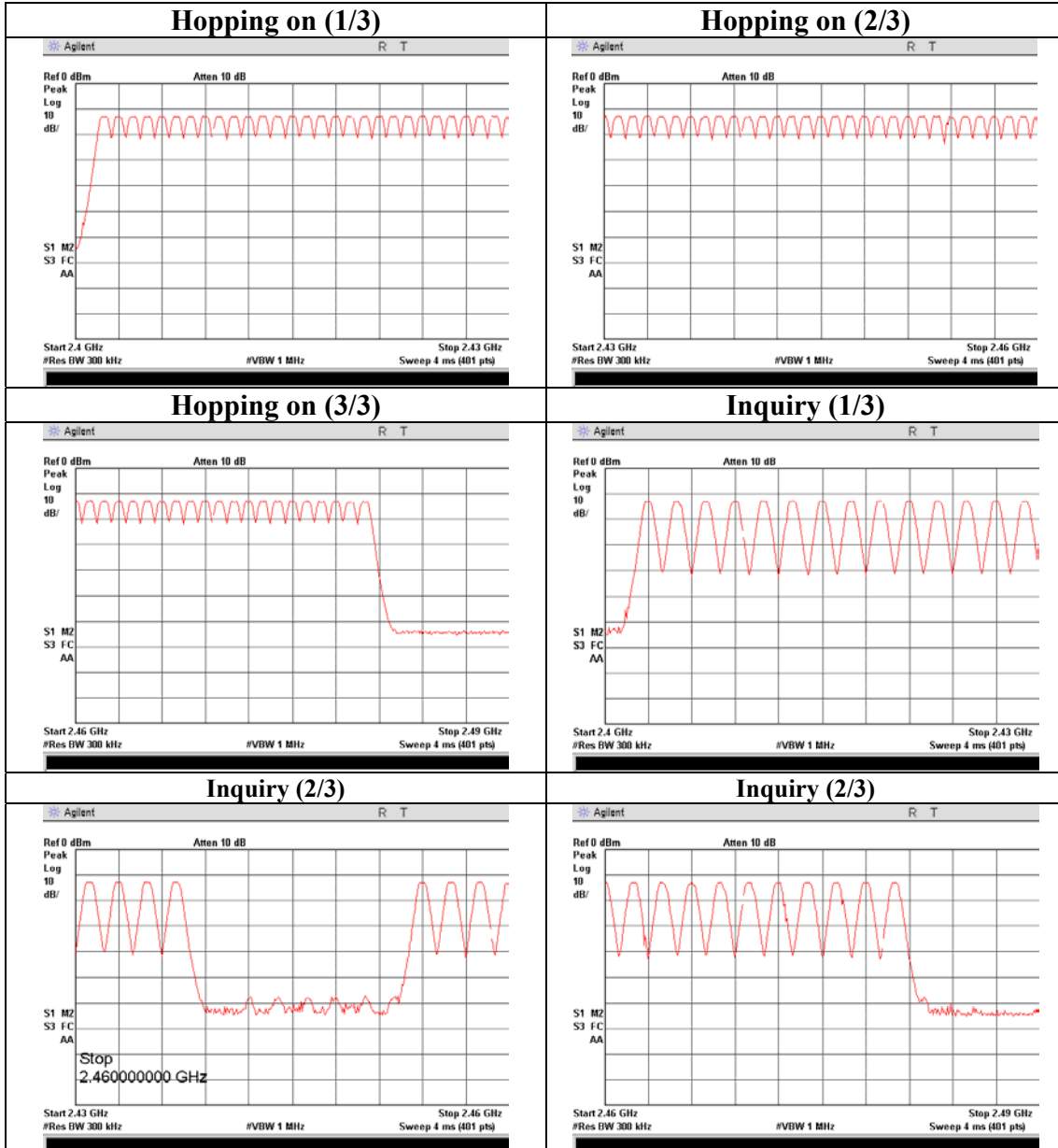
UL Apex Co., Ltd.  
Head Office EMC Lab. No.7 Shielded Room

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 [time]	Limit [time]
Tx(Hoppng on)	79	$\geq 15$

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

**Number of Hopping Frequency**



### Dwell time

UL Apex Co., Ltd.  
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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

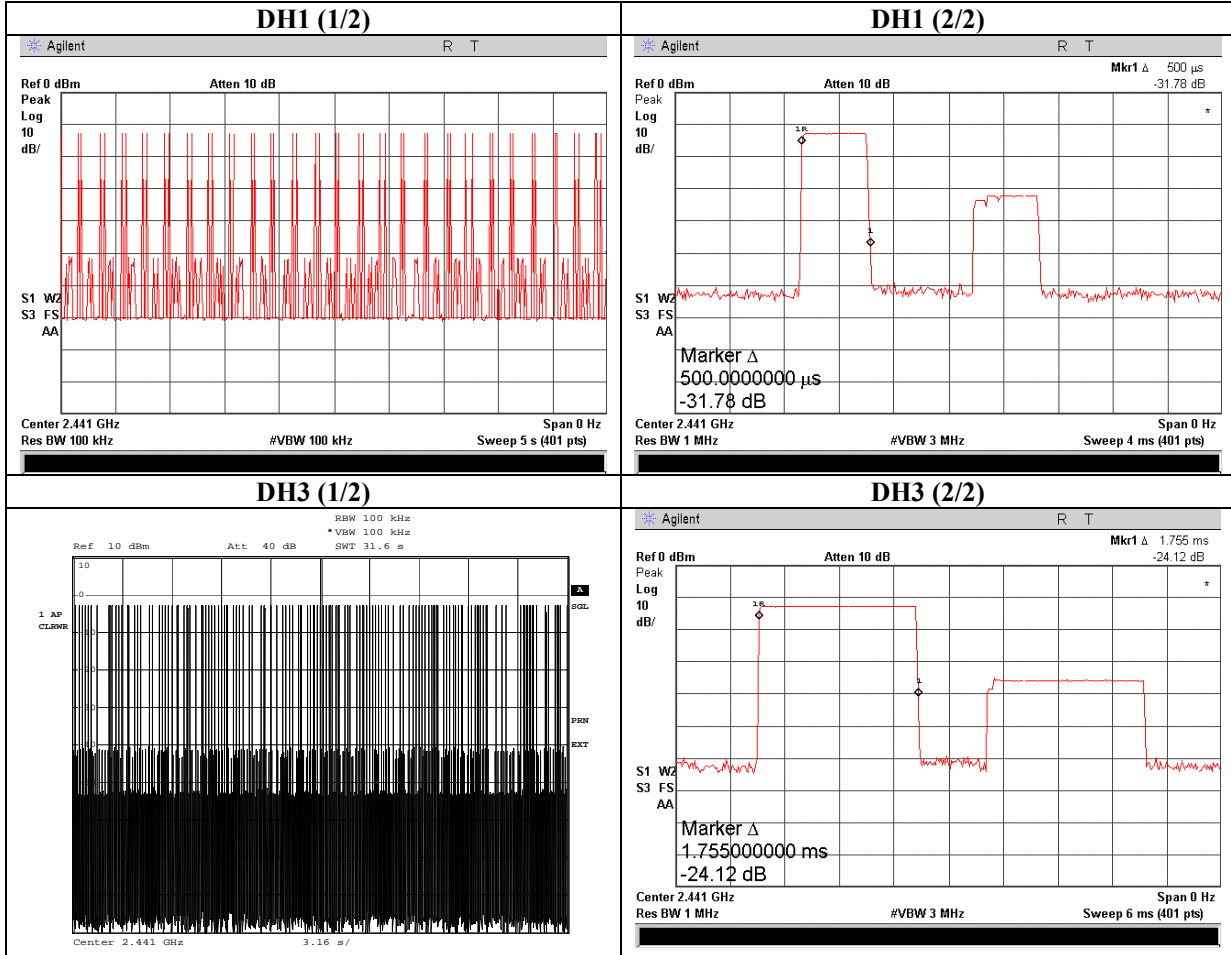
Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	50 times /5sec. x 31.6 = 316.00 times	0.500	158	400
DH3	141.8 times	1.755	249	400
DH5	101.8 times	3.020	307	400
Inquiry	100times / 1sec. x 12.8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

※Average data of 5 tests

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

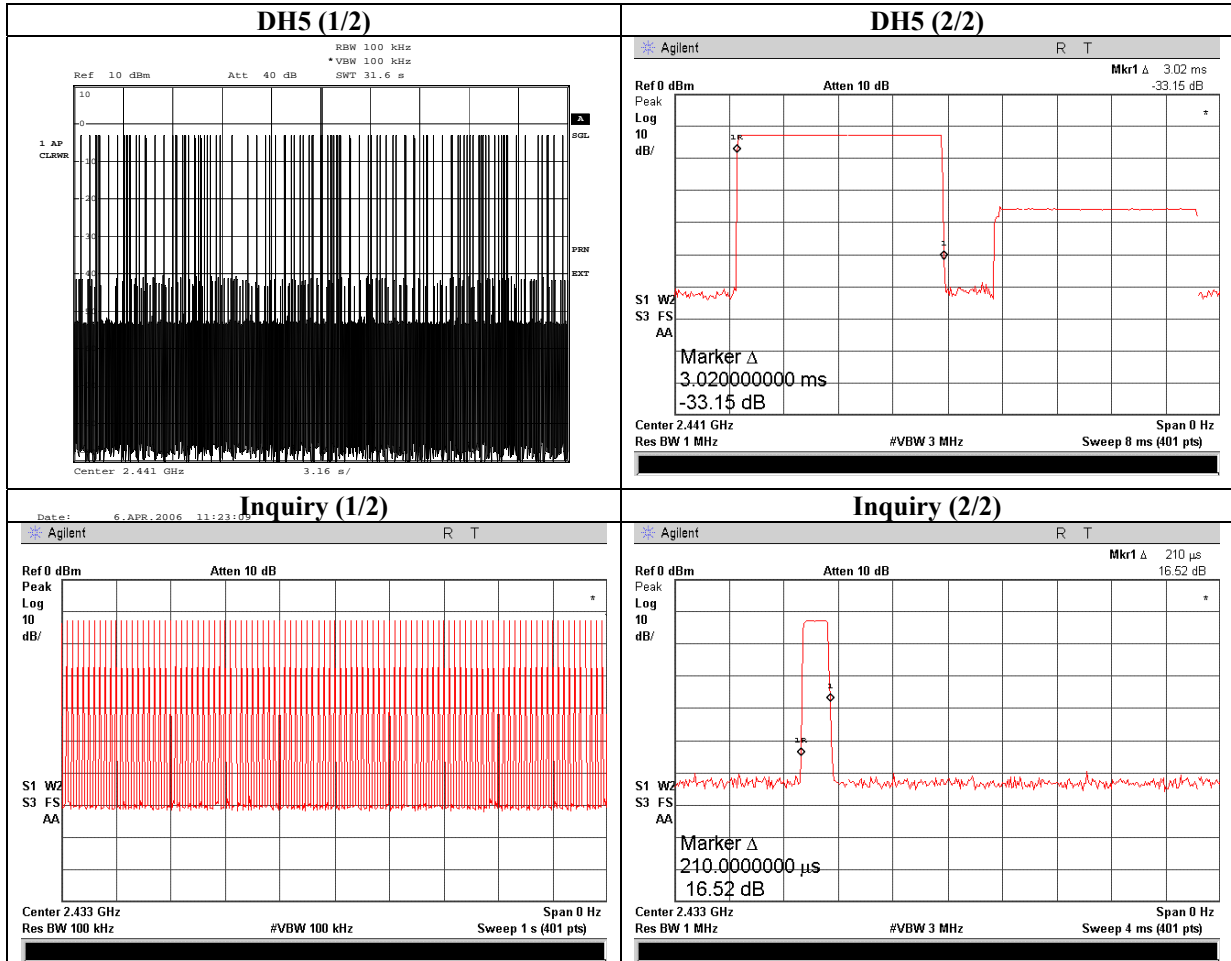
Dwell time factor= $20\log_{10}(\text{dwell time}/100\text{ms})$   
 $=20\log_{10}(((101.8\text{times}/31.6\text{sec})*0.1\text{sec})*3.020\text{ms}/100\text{ms})$   
 $=20\log_{10}((0.322\text{times}*3.020\text{ms}/100\text{ms})$   
 $=20\log_{10}((0.972\text{ms}/100\text{ms})$   
 $= -40.24 \text{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

### 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  
EQUIPMENT : DISPLAY  
MODEL : BT007A  
S/N : 2G000014  
POWER : DC12V  
MODE : Tx(Hopping off)/Inquiry

REGULATION : FCC Part15 Subpart C 15.247(b)(1)  
TEST DISTANCE : -  
DATE : 03/28/2006  
TEMPERATURE : 25deg.C  
HUMIDITY : 41%  
ENGINEER : Kenichi Adachi

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [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.

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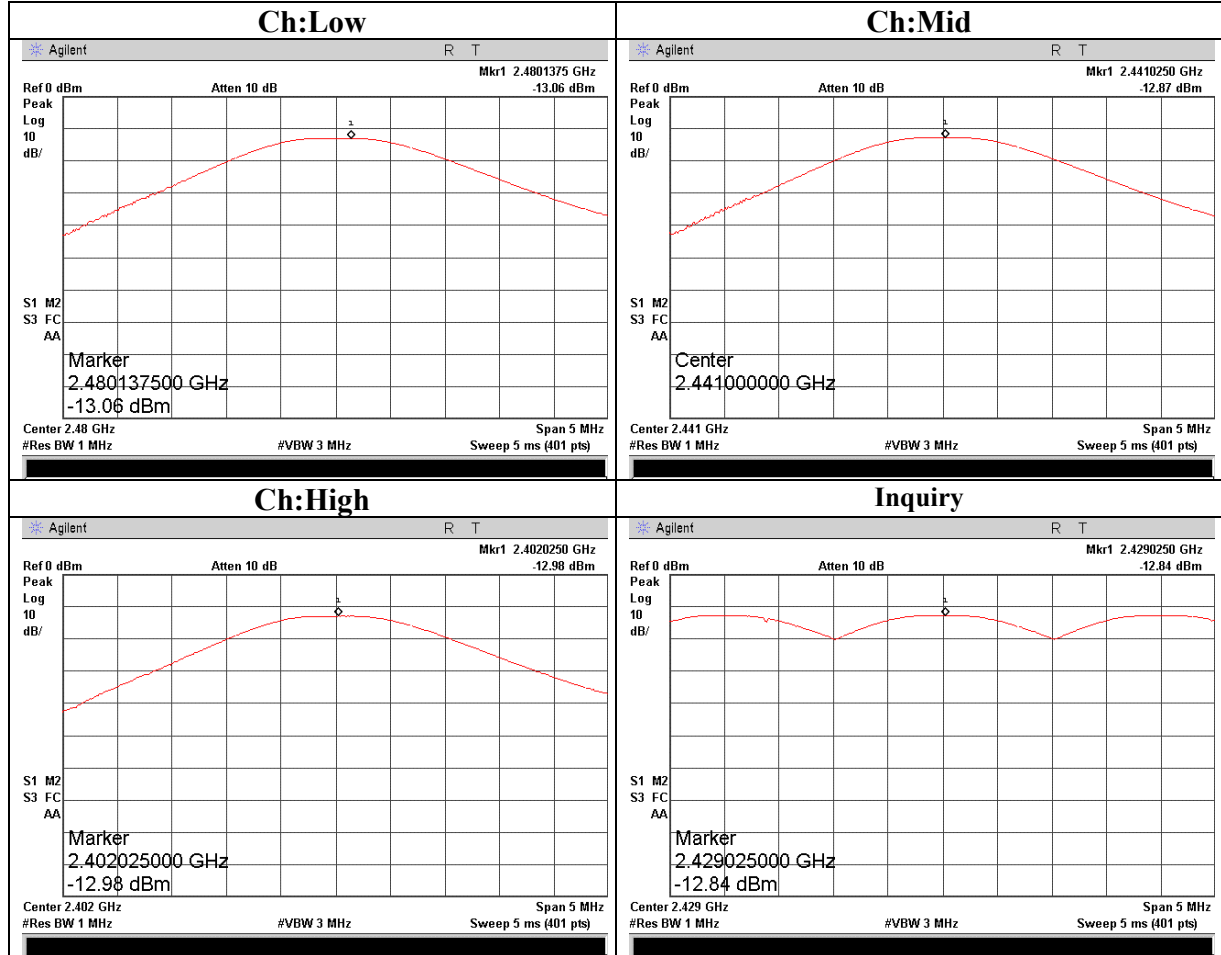
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**Maximum Peak Output Power**



## 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.

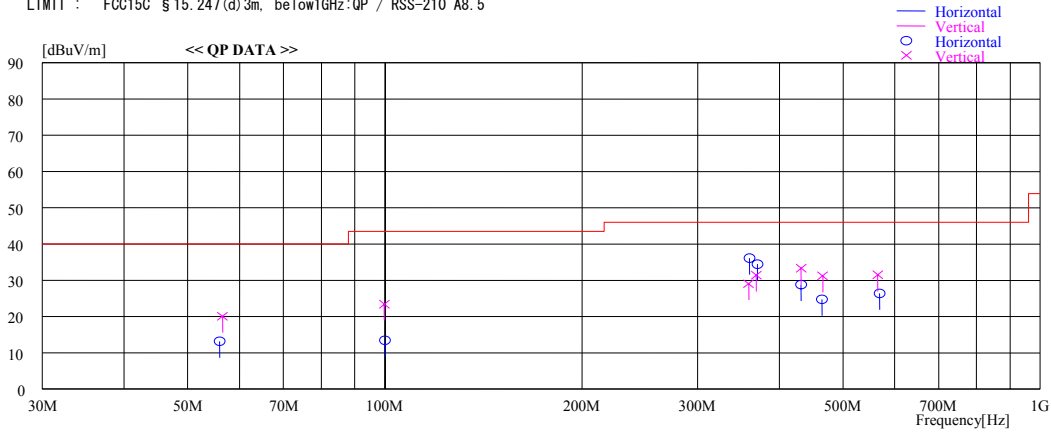
### DATA OF RADIATED EMISSION TEST

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 [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [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)



## 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.

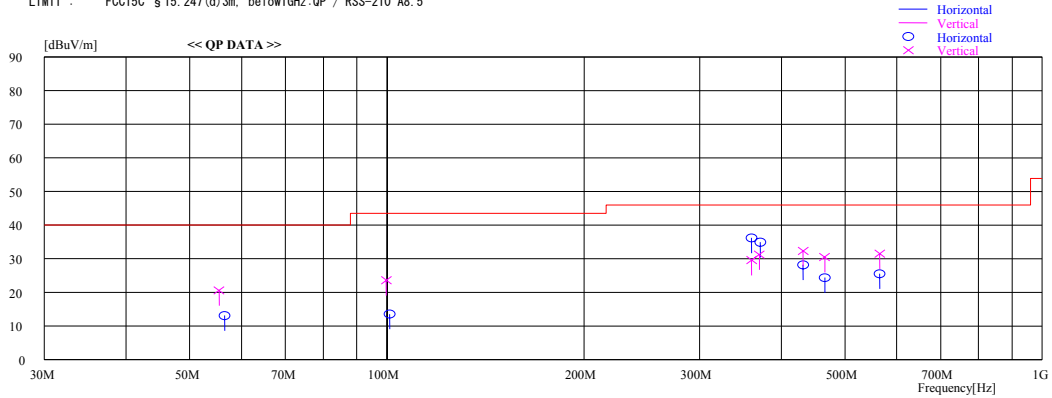
### DATA OF RADIATED EMISSION TEST

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, below 1GHz:QP / RSS-210 A8.5



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss & Gain [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.

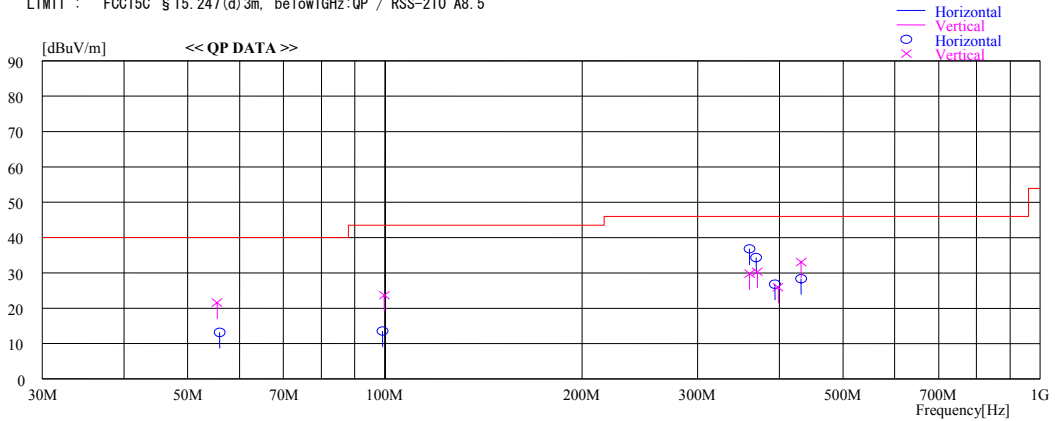
### DATA OF RADIATED EMISSION TEST

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 [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [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)

## 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.

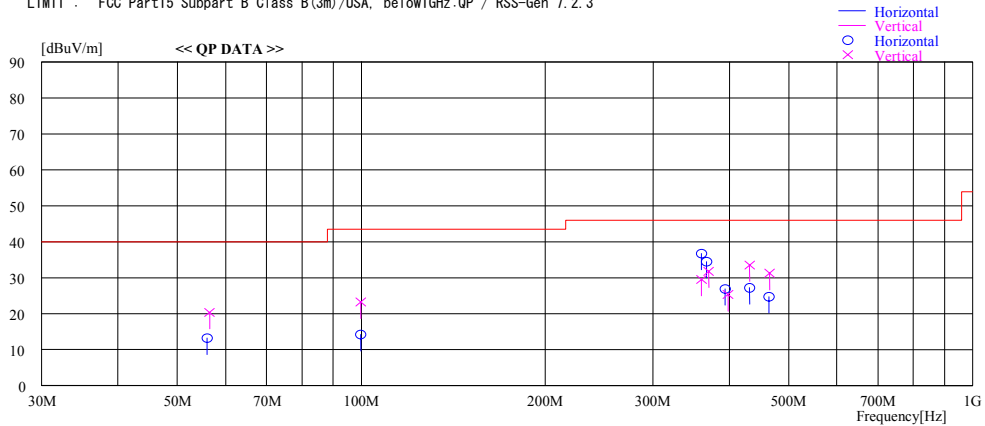
### DATA OF RADIATED EMISSION TEST

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 [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [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)

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

UL Apex Co., Ltd.

Company : FUJITSU TEN Limited  
Equipment : DISPLAY  
Model : BT007A  
Sample No. : 2G000014  
Power : DC 12V (Car Battery)  
Mode : Bluetooth, Tx 2402MHz(DH5)

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

Remarks : Normal position  
**PK DETECT** (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dB]	VER [dB]			
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
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
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
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 [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dB]	VER [dB]			
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
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
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
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 [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dB]	VER [dB]			
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
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.**

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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	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)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
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
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
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 [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
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
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
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.

## 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)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN			
		HOR	VER					HOR	VER		HOR	VER		
		[dBuV]		[dB]										
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>														
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		
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>														
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 [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN			
		HOR	VER					HOR	VER		HOR	VER		
		[dBuV]		[dB]										
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>														
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		
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>														
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.

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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)

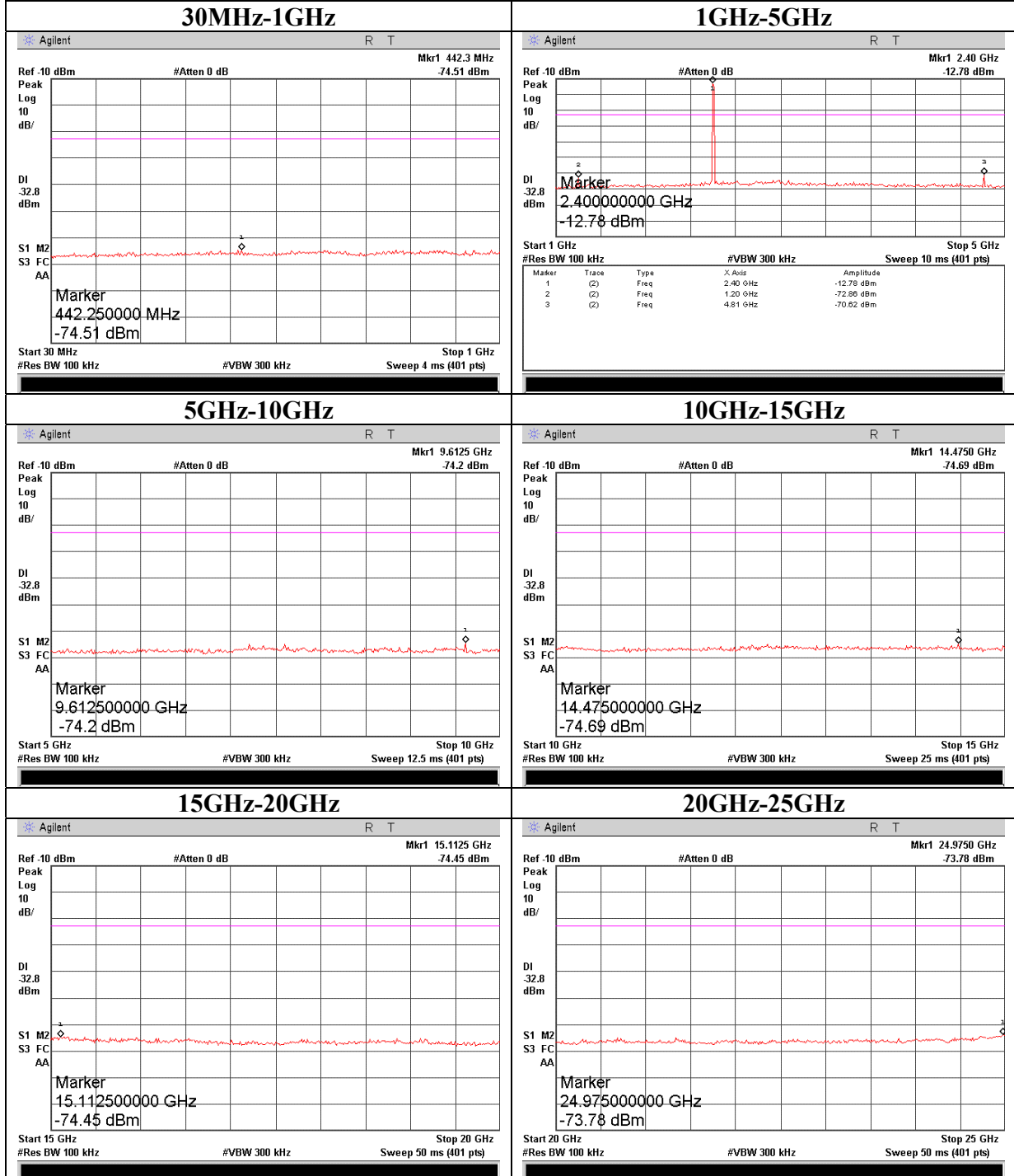
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]		[dB]		
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	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 [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]		[dB]		
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
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

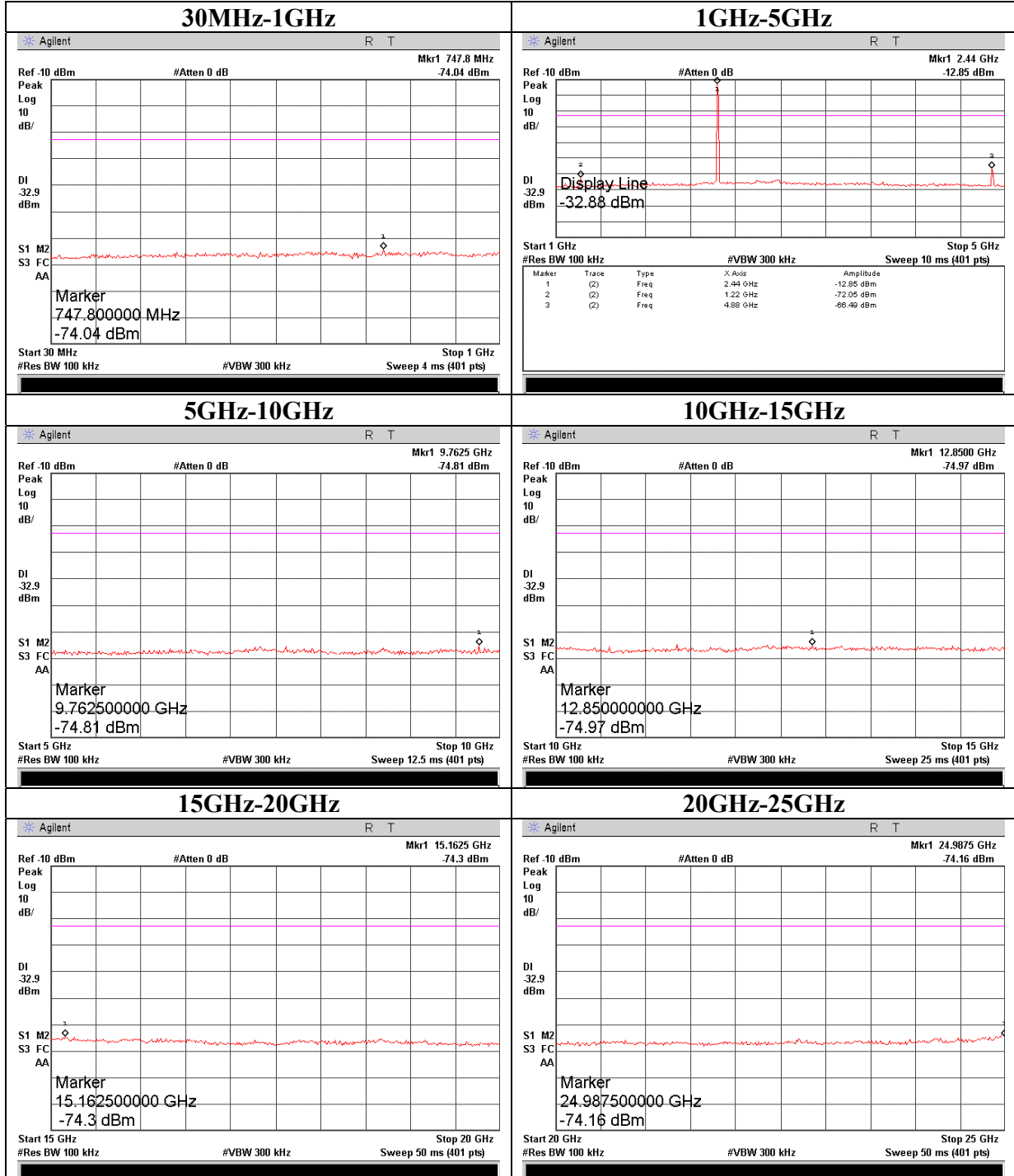
\*Except for the above table : All other spurious emissions were less than 20dB for the limit.  
\*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.  
\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference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

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



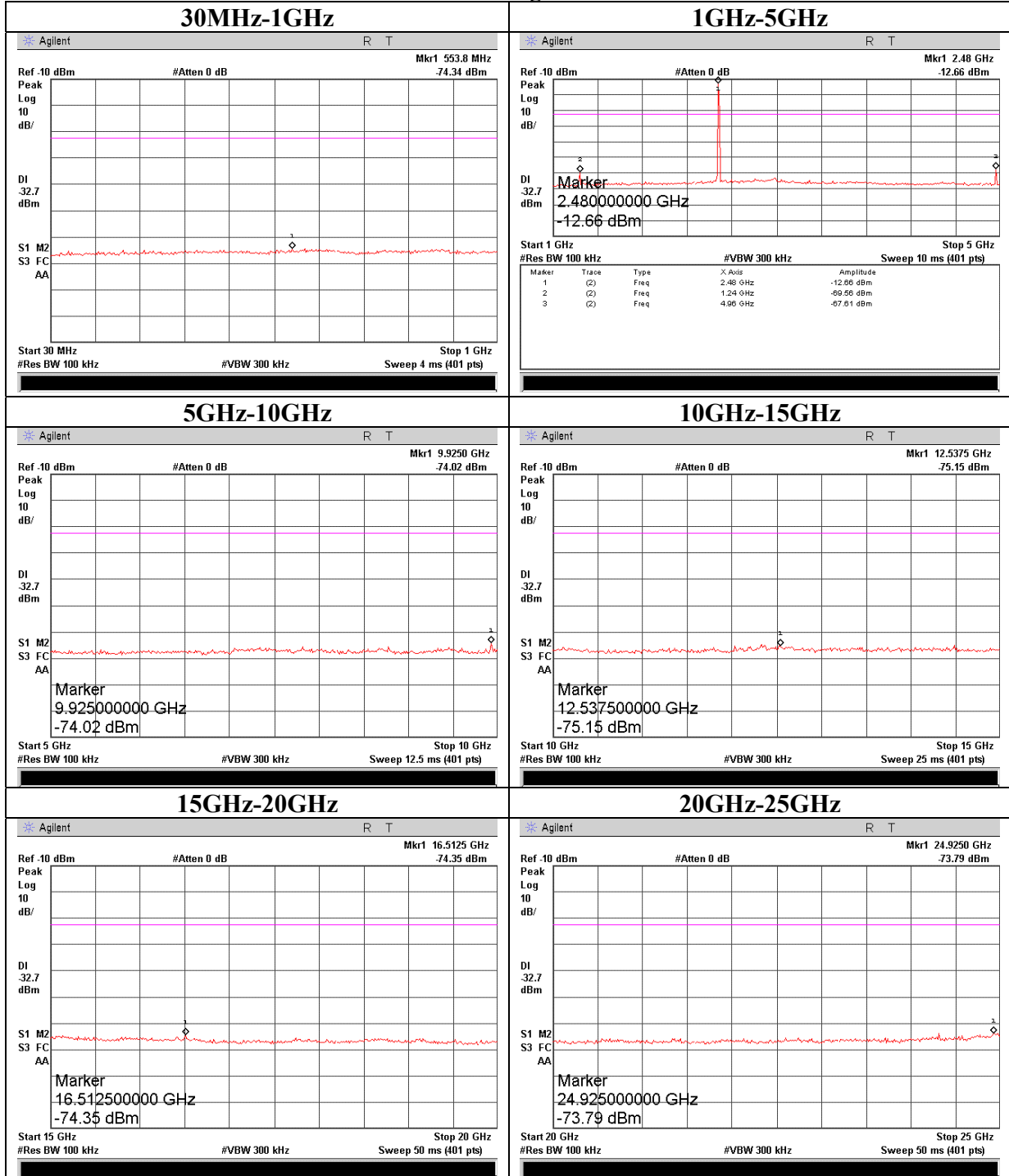


**Conducted Spurious Emission**  
**Ch:Mid**

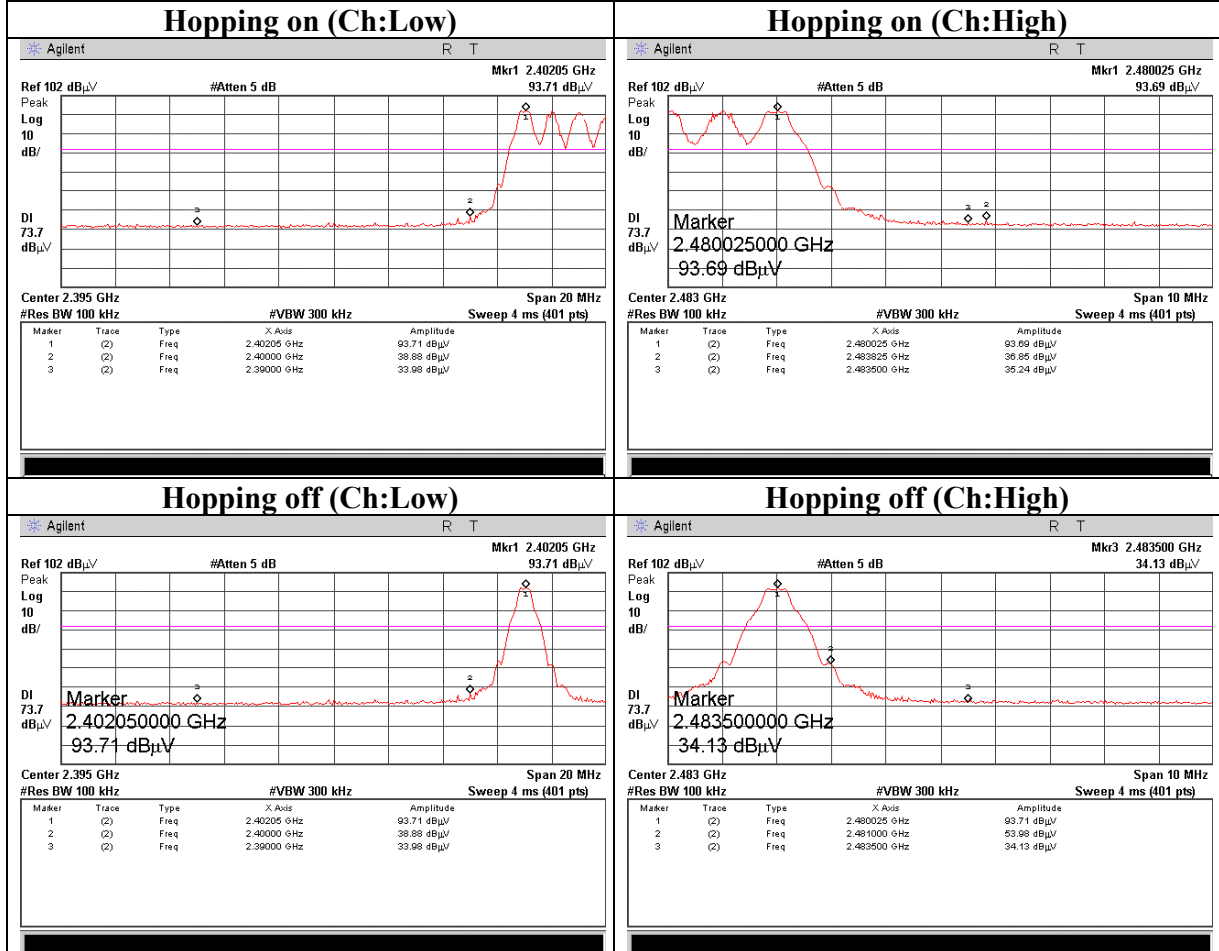


### Conducted Spurious Emission

Ch:High



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



### 99% Occupied Bandwidth

