EMI TEST REPORT

Test Report No. : 25LE0267-HO-3a

Applicant	:	**FUJITSU TEN Limited**
Type of Equipment	:	**DISPLAY**
Model No.	:	**BT002A**
FCC ID	:	**BABBT002A**
Test standard	:	**FCC Part 15 Subpart C** **Section 15.207, Section 15.247: 2005**
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.

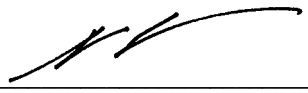
Date of test: Aug. 26 to Sep. 9, 2005

Tested by:

Makoto Kosaka
EMC Services

Mitsuru Fujimura
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 Gosho-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.	:	BT002A
Serial No.	:	2G000001
Country of Manufacture	:	Japan
Condition of EUT	:	Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Rating	:	DC13.2V
Receipt Date of Sample	:	BT002A: September 2, 2005 (sample for radiated spurious emission test) BT003A: August 24, 2005 (sample for antenna terminal conducted tests)

2.2 Product Description

Model No: BT002A (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 frequency(ies) in the system	:	12.55MHz,5MHz,4MHz for 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	:	DC13.2V (EUT) DC3.3V (RF Module part)
Antenna Type	:	LDA923G0520D-210
Antenna Connector Type	:	U.FL (SMT Type)
Antenna Gain	:	-4.6dBi

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.

SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification	:	FCC Part15 Subpart C : 2005
Title	:	FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators Section 15.207 Conducted limits: 2005 Section 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz: 2005

3.2 Procedures and results

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst Margin*0)	Results
1	Conducted emission	ANSI C63.4:2003 7. AC powerline conducted emission measurements	Section 15.207	-	N/A	N/A	N/A*1)
2	Carrier Frequency Separation	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(a)(1)	Conducted	N/A	See data.	Complied*2)
3	20dB Bandwidth	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(a)(1)	Conducted	N/A		Complied*2)
4	Number of Hopping Frequency	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(a)(1)(iii)	Conducted	N/A		Complied*2)
5	Dwell time	ANSI C63.4:2003 13.Measurement of intentional radiators	Section15.247(a)(1)(iii)	Conducted	N/A		Complied*2)
6	Maximum Peak Output Power	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(b)(1)	Conducted	N/A		Complied*2)
7	Band Edge Compliance	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(d)	Conducted	N/A		Complied*2)
8	Spurious Emission	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(d)	Conducted*2) Radiated	N/A	0.4dB (4960.000MHz Hori, 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.

*2) The test results of model: BT003A that has the exact same BT module as the EUT are applied for these antenna terminal conducted tests. (Reference: Test Report No. 25LE0267-HO-1a)

Uncertainty:

Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is ±4.5dB(3m)/ ±4.7dB(10m).
The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ±5.2dB(3m)/ ±3.8dB(10m).
The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is ±6.6dB.
The data listed in this report meets the limits unless the uncertainty is taken into consideration.

Other test except Conducted Emission and Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test is ±3.0dB.
The data listed in this test report has enough margin, more than the site margin.

*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	RSS-Gen 4.4.1	-	Conducted	N/A	N/A	N/A
The test results of model: BT003A that has the exact same BT module as the EUT are applied.							

3.4 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 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 shielded room	-	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.4 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.3 shielded room.

3.5 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

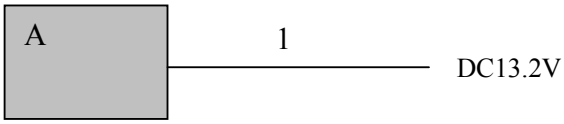
SECTION 4: Operation of E.U.T. during testing

4.1 Operating Modes

The mode is used : Transmitting mode(Packet size DH5)
Low Channel :2402MHz
Mid Channel :2441MHz
High Channel :2480MHz
Inquiry

*Test results of model: BT003A that has the exact same BT module as the EUT (BT002A) are applied for anntena terminal conducted tests, such as Conducted emission, Carrier Frequency Separation, 20dB Bandwidth, Number of Hopping Frequency, Dwell time, Maximum Peak Output Power, Band Edge Compliance, and 99% Occupied Band Width.

4.2 Configuration and peripherals



* Cabling was 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	FCC ID
A	DISPLAY (EUT)	BT002A	2G000001	FUJITSU TEN	BABBT002A

List of cables used

No.	Name	Length (m)	Shield	Backshell Material
1	DC Cable	1.0	N	Polyvinyl chloride

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 IF Bandwidth	QP: BW 120kHz(T/R) 20dBc : RBW: 100kHz VBW: 300kHz (S/A)	PK: RBW:1MHz/VBW: 1MHz AV: RBW:1MHz/VBW:10Hz 20dBc : RBW:100kHz/VBW:300kHz

Test data : APPENDIX 3
Test result : Pass

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 test was made with the spectrum analyzer that has a function of channel-power measurements.
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.

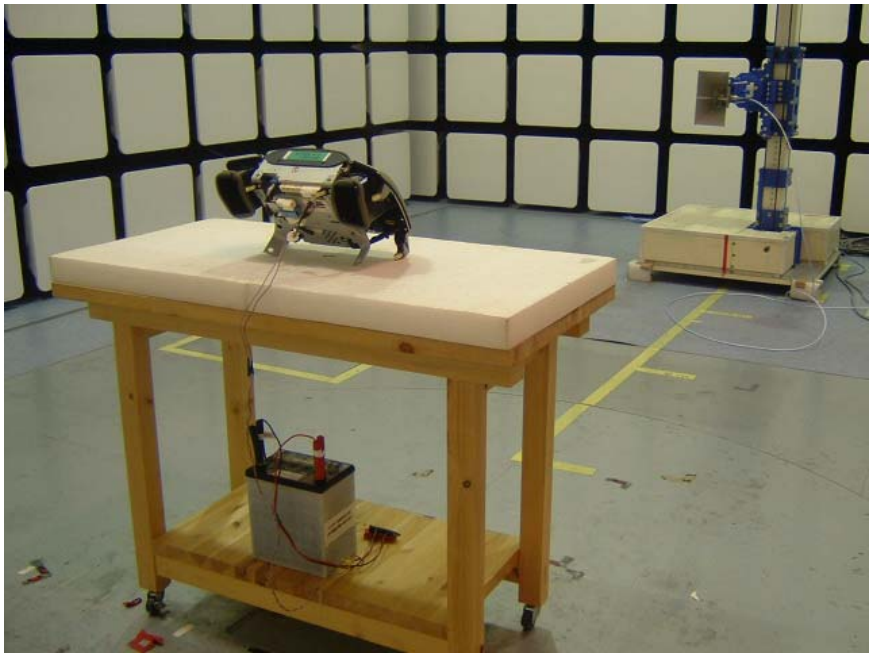
Test data **: APPENDIX 3**
Test result **: Pass**

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-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2005/04/11 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE	2005/05/19 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2005/01/10 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2005/02/05 * 12
MCC-19	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2005/02/03 * 12
MCC-04	Microwave Cable 1G-50GHz	Storm	421-011 (90-1394-079)	RE	2005/01/05 * 12
MHF-02	High Pass Filter	Tokimec	TF323DCA	RE	2004/09/18 * 12
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2004/11/13 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE	2004/11/12 * 12
MHA-05	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2005/01/10 * 12
MPA-05	Pre Amplifier	TSJ	TSJ 1-26.5GHz PreAmp	RE	2005/07/08 * 12
MCC-18	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2005/02/03 * 12
MCC-26	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2005/08/30 * 12
MHA-01	Horn Antenna	EMCO	3160-09	RE	2005/01/10 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent/TSJ	-	RE	2004/12/19 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2005/05/24 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2004/12/16 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2004/10/14 * 12
MLA-01	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2004/10/14 * 12
MRENT-21	Spectrum Analyzer	Advantest	R3273	AT	2005/08/19 * 12
MRENT-20	Spectrum Analyzer	Advantest	R3273	AT	2005/08/19 * 12
MCC-16	Microwave Cable	Suhner	SUCOFLEX 104	AT	2005/02/03 * 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 disturbance voltage

APPENDIX 3: Data of EMI test

Carrier Frequency Separation

(Test data of BT003A is applied)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Shielded Room

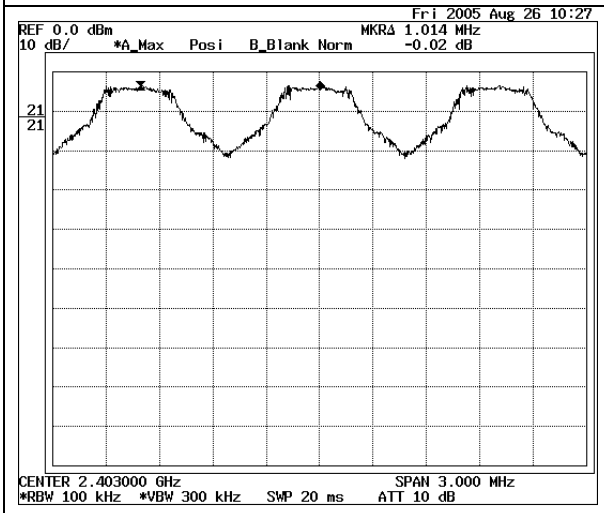
COMPANY	:	FUJITSU TEN LIMITED	REGULATION	:	Fcc Part15 Subpart C 15.247(a)(1)
EQUIPMENT	:	DISPLAY	TEST DISTANCE	:	-
MODEL	:	BT003A	DATE	:	08/26/2005
S/ N	:	2G000001	TEMPERATURE	:	24deg.C
POWER	:	DC13.2V	HUMIDITY	:	51%
MODE	:	Tx(Hopping on)/Inquiry	ENGINEER	:	Mitsuru Fujimura

Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.014	>20dB Bandwidth and 25[kHz]
Mid	2441.0	1.005	>20dB Bandwidth and 25[kHz]
High	2480.0	1.011	>20dB Bandwidth and 25[kHz]
Inquiry	2441.0	2.000	>20dB Bandwidth and 25[kHz]

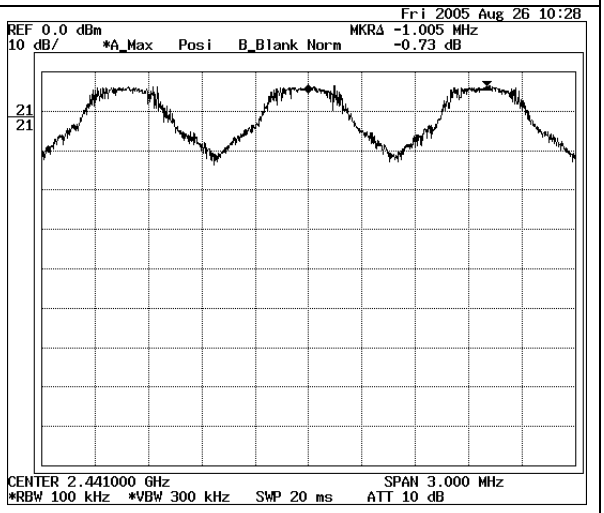
Carrier Frequency Separation

(Test data of BT003A is applied)

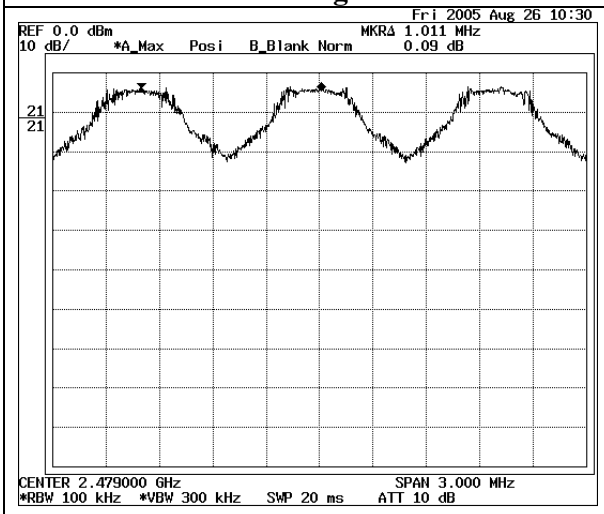
Ch:Low



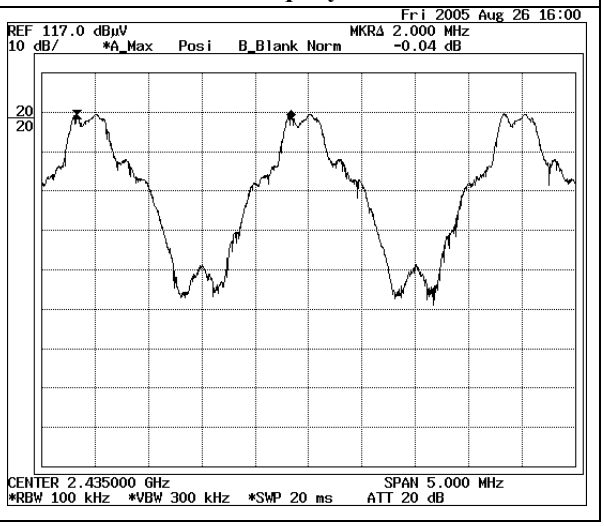
Ch:Mid



Ch:High



Inquiry



20dB Bandwidth

(Test data of BT003A is applied)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Shielded Room

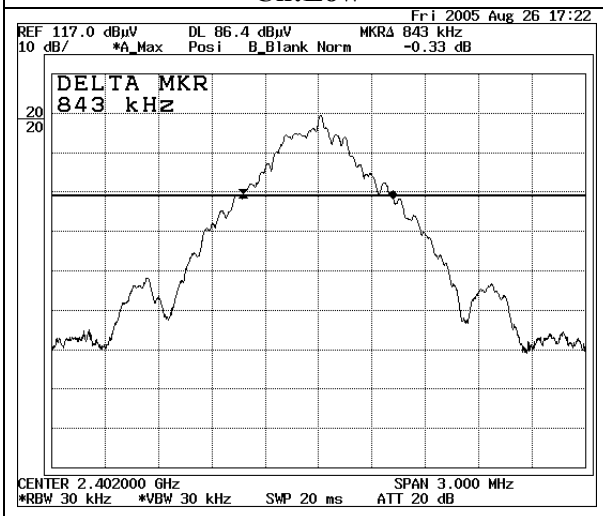
COMPANY	:	FUJITSU TEN LIMITED	REGULATION	:	Fcc Part15 Subpart C 15.247(a)(1)
EQUIPMENT	:	DISPLAY	TEST DISTANCE	:	-
MODEL	:	BT003A	DATE	:	08/26/2005
S/ N	:	2G000001	TEMPERATURE	:	24deg.C
POWER	:	DC13.2V	HUMIDITY	:	51%
MODE	:	Tx(Hopping off)/Inquiry	ENGINEER	:	Mitsuru Fujimura

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	2402.0	0.843	-
Mid	2441.0	0.837	-
High	2480.0	0.837	-
Inquiry	2441.0	0.711	-

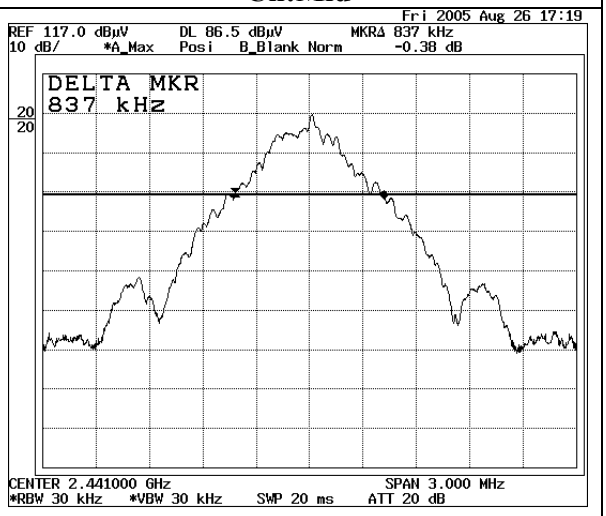
20dB Bandwidth

(Test data of BT003A is applied)

Ch:Low

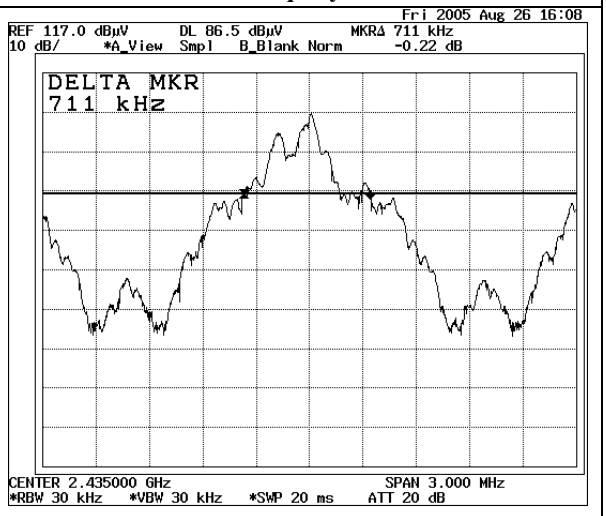


Ch:Mid



Ch:High

Inquiry



Number of Hopping Frequency

(Test data of BT003A is applied)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Shielded Room

COMPANY	:	FUJITSU TEN LIMITED	REGULATION	:	Fcc Part15 Subpart C 15.247(a)(1)(iii)
EQUIPMENT	:	DISPLAY	TEST DISTANCE	:	-
MODEL	:	BT003A	DATE	:	08/26/2005
S/ N	:	2G000001	TEMPERATURE	:	24deg.C
POWER	:	DC13.2V	HUMIDITY	:	51%
MODE	:	Tx(Hopping on)/Inquiry	ENGINEER	:	Mitsuru Fujimura

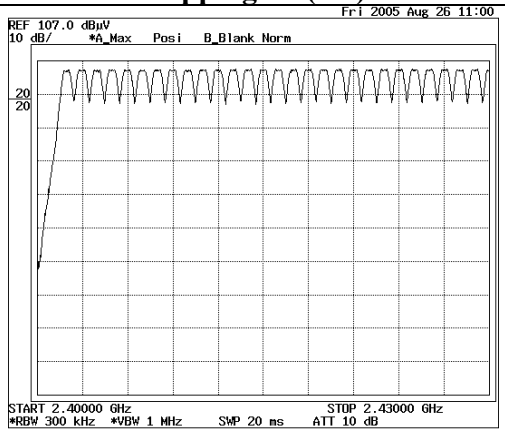
Mode	Number of channel [time]	Limit [time]
Tx(Hoppng on)	79	≧15

Mode	Number of channel [time]	Limit [time]
Inquiry	32	≧15

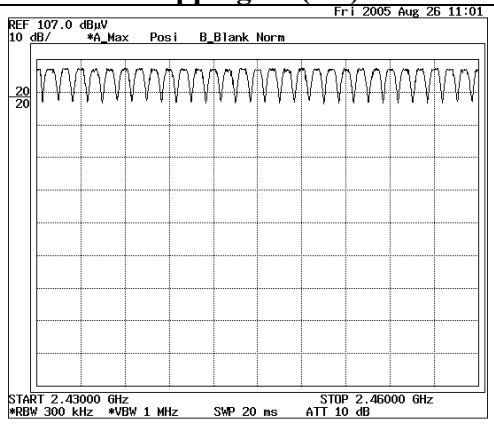
Number of Hopping Frequency

(Test data of BT003A is applied)

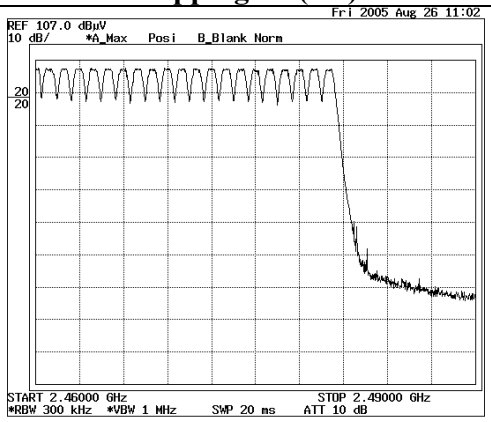
Hopping on (1/3)



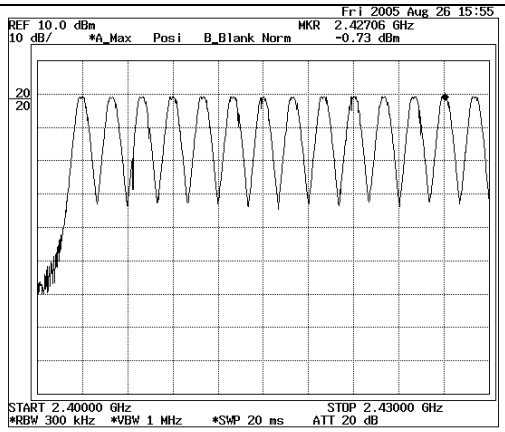
Hopping on (2/3)



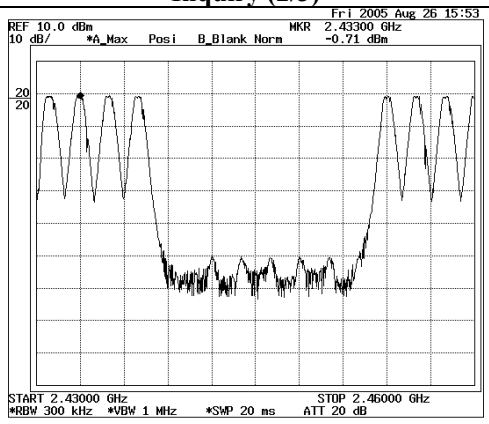
Hopping on (3/3)



Inquiry (1/3)



Inquiry (2/3)



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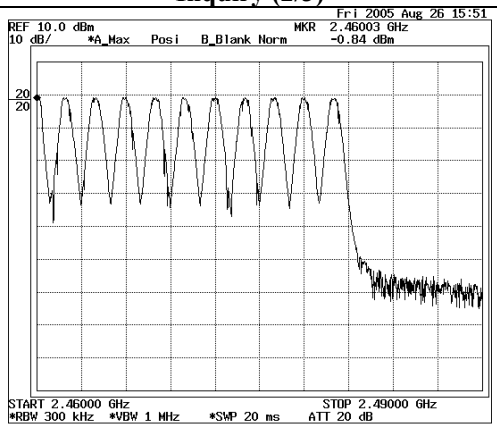


Dwell time

(Test data of BT003A is applied)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Shielded Room

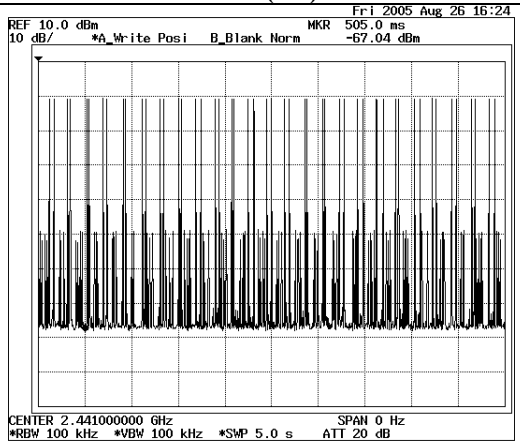
COMPANY	:	FUJITSU TEN LIMITED	REGULATION	:	Fcc Part15 Subpart C 15.247(a)(1)(iii)
EQUIPMENT	:	DISPLAY	TEST DISTANCE	:	-
MODEL	:	BT003A	DATE	:	08/26/2005
S/ N	:	2G000001	TEMPERATURE	:	24deg.C
POWER	:	DC13.2V	HUMIDITY	:	51%
MODE	:	Tx (Hopping on) /Inquiry	ENGINEER	:	Mitsuru Fujimura

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	52 times /5sec. x 31.6 = 328 times	0.484	159	400
DH3	26 times / 5sec. x 31.6 = 164 times	1.705	280	400
DH5	17 times / 5 sec. x 31.6 = 107 times	2.979	319	400
Inquiry	100 times / 1sec. x 12.8 = 1280 times	0.241	308	400

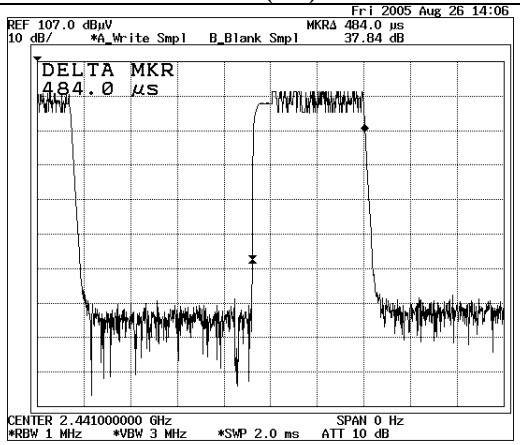
Dwell time

(Test data of BT003A is applied)

DH1 (1/2)



DH1 (2/2)



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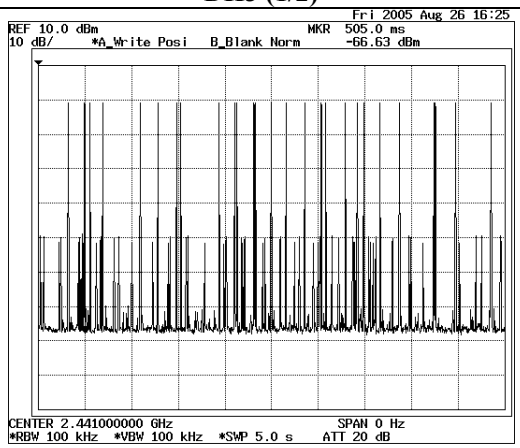
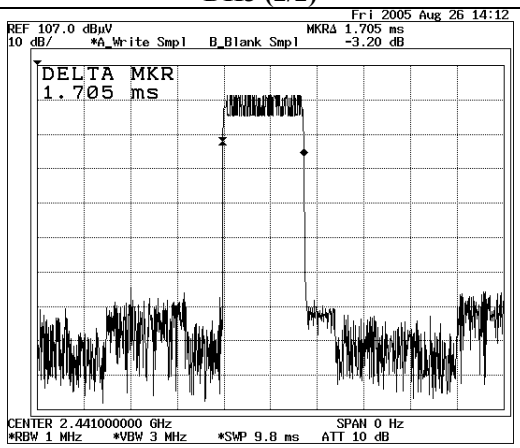


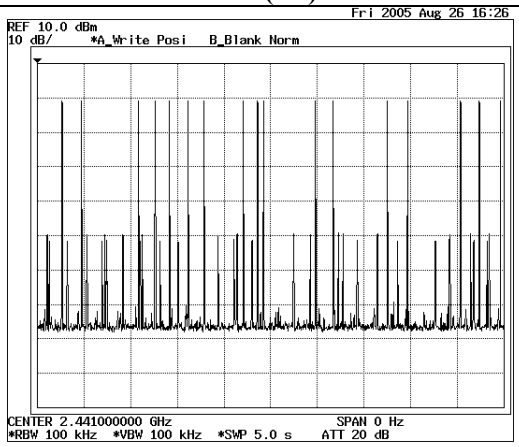
DH3 (2/2)



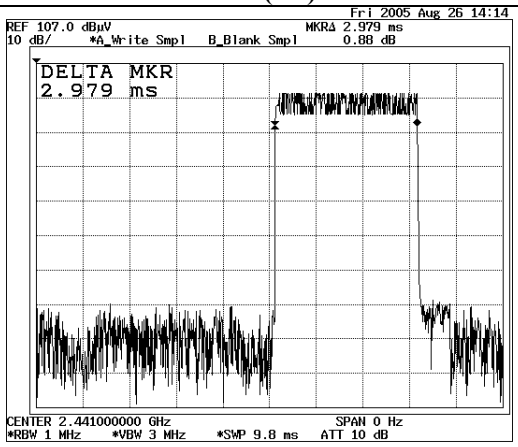
Dwell time

(Test data of BT003A is applied)

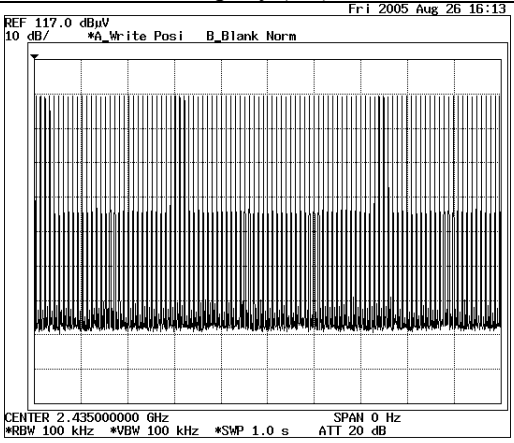
DH5 (1/2)



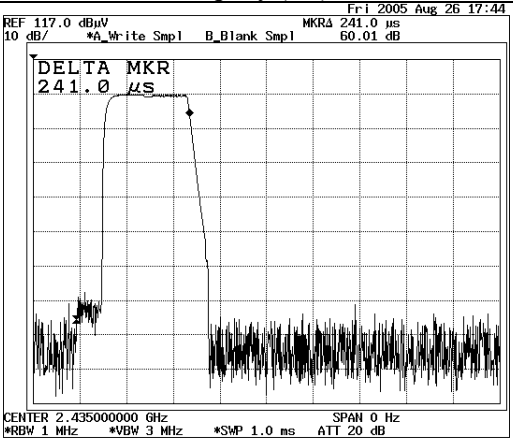
DH5 (2/2)



Inquiry (1/2)



Inquiry (2/2)



Maximum Peak Output Power

(Test data of BT003A is applied)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Shielded Room

COMPANY	:	FUJITSU TEN LIMITED	REGULATION	:	Fcc Part15 Subpart C 15.247(b)(1)
EQUIPMENT	:	DISPLAY	TEST DISTANCE	:	-
MODEL	:	BT003A	DATE	:	08/26/2005
S/ N	:	2G000001	TEMPERATURE	:	24deg.C
POWER	:	DC13.2V	HUMIDITY	:	51%
MODE	:	Tx (Hopping off) /Inquiry	ENGINEER	:	Mitsuru Fujimura

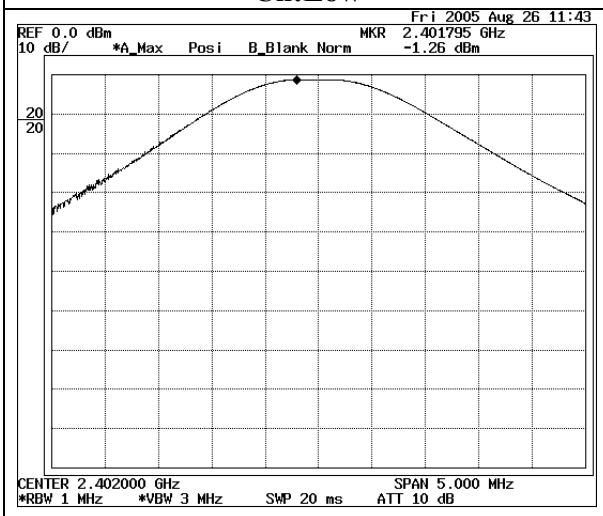
Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2402.0	-1.26	0.46	0.00	-0.80	20.96	21.76
Mid	2441.0	-1.16	0.42	0.00	-0.74	20.96	21.70
High	2480.0	-1.42	0.39	0.00	-1.03	20.96	21.99
Inquiry	2441.0	-0.61	0.42	0.00	-0.19	20.96	21.15

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.

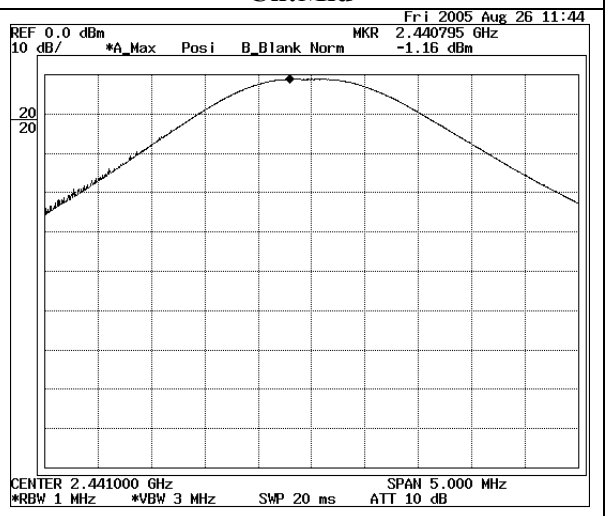
Maximum Peak Output Power

(Test data of BT003A is applied)

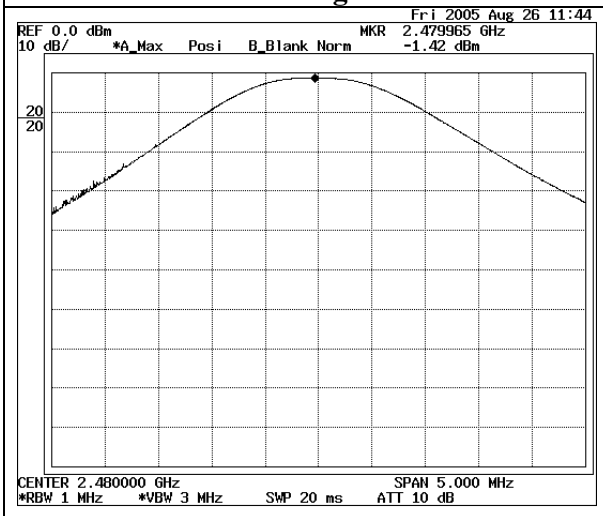
Ch:Low



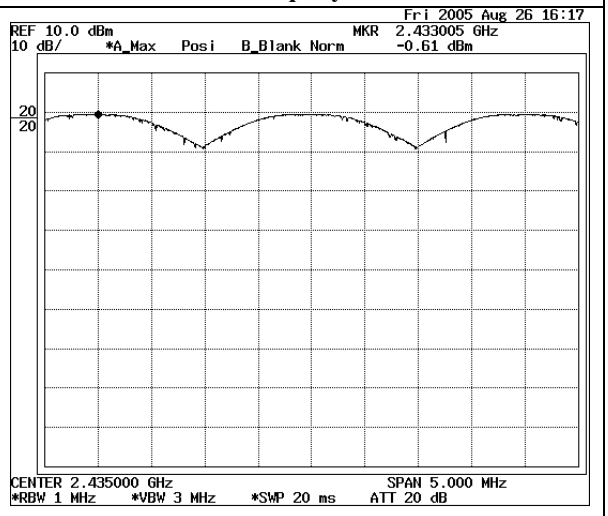
Ch:Mid



Ch:High



Inquiry



Radiated Spurious Emission

* 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

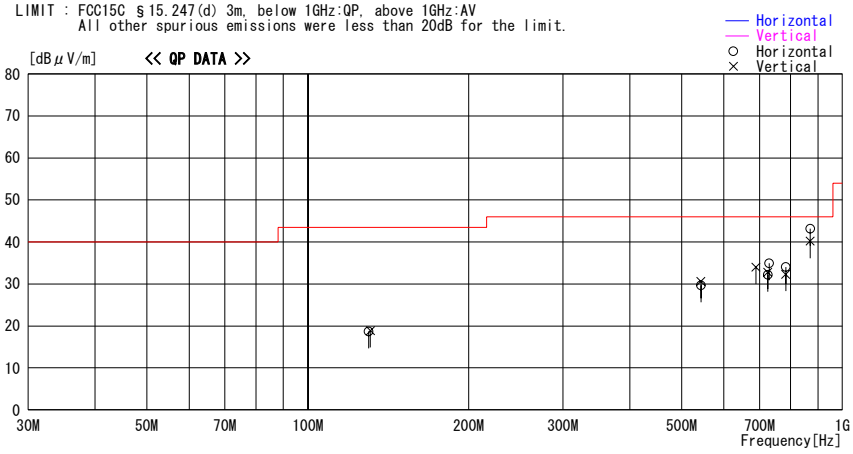
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/09 19:32:21

Applicant : FUJITSU TEN Limited
Kind of EUT : DISPLAY
Model No. : BT002A
Serial No. : 2G000001

Report No. : 25LE0267-HO
Power : DC13.2V
Temp./Humi. : 25deg.C / 65%
Operator : Mitsuru Fujimura

Mode / Remarks : Transmitting Bluetooth 2402MHz

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
130.005	24.2	QP	13.7	-19.2	18.7	297	281	Hori.	43.5	24.8	
130.955	24.3	QP	13.8	-19.2	18.9	5	100	Vert.	43.5	24.6	
543.541	27.7	QP	19.2	-17.2	29.7	103	318	Hori.	46.0	16.3	
543.558	28.6	QP	19.2	-17.2	30.6	157	100	Vert.	46.0	15.4	
688.485	29.7	QP	20.7	-16.4	34.0	359	100	Vert.	46.0	12.0	
724.708	28.1	QP	20.9	-16.2	32.8	0	100	Vert.	46.0	13.2	
724.709	27.5	QP	20.9	-16.2	32.2	0	185	Hori.	46.0	13.8	
729.022	30.2	QP	20.9	-16.2	34.9	96	114	Hori.	46.0	11.1	
782.999	28.7	QP	21.1	-15.8	34.0	8	178	Hori.	46.0	12.0	
783.011	27.0	QP	21.1	-15.8	32.3	0	100	Vert.	46.0	13.7	
869.666	37.3	QP	21.3	-15.4	43.2	36	245	Hori.	46.0	2.8	
869.680	34.3	QP	21.3	-15.4	40.2	279	129	Vert.	46.0	5.8	

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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

*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

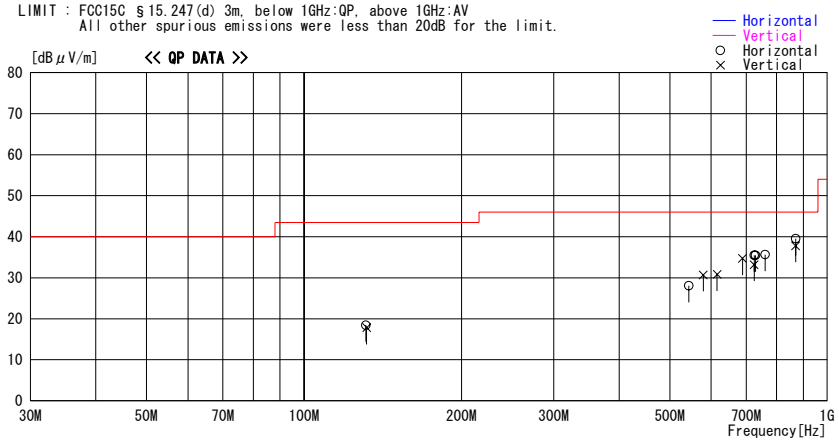
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/09 21:16:24

Applicant : FUJITSU TEN Limited
Kind of EUT : DISPLAY
Model No. : BT002A
Serial No. : 2G000001

Report No. : 25LE0267-HO
Power : DC13.2V
Temp./Humi. : 25deg.C / 65%
Operator : Mitsuru Fujimura

Mode / Remarks : Transmitting Bluetooth 2441MHz

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
131.376	23.8	QP	13.8	-19.2	18.4	303	240	Hori.	43.5	25.1	
131.765	23.2	QP	13.8	-19.2	17.8	9	100	Vert.	43.5	25.7	
543.536	26.1	QP	19.2	-17.2	28.1	135	370	Hori.	46.0	17.9	
579.781	27.9	QP	19.7	-16.9	30.7	0	100	Vert.	46.0	15.3	
616.010	27.4	QP	20.1	-16.7	30.8	0	100	Vert.	46.0	15.2	
688.491	30.4	QP	20.7	-16.4	34.7	359	100	Vert.	46.0	11.3	
724.719	30.8	QP	20.9	-16.2	35.5	117	112	Hori.	46.0	10.6	
724.738	28.5	QP	20.9	-16.2	33.2	359	100	Vert.	46.0	12.8	
729.033	30.8	QP	20.9	-16.2	35.5	133	115	Hori.	46.0	10.5	
760.985	30.6	QP	21.1	-16.1	35.6	123	110	Hori.	46.0	10.4	
869.671	31.9	QP	21.3	-15.4	37.8	232	100	Vert.	46.0	8.2	
869.677	33.6	QP	21.3	-15.4	39.5	220	100	Hori.	46.0	6.5	

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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

*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

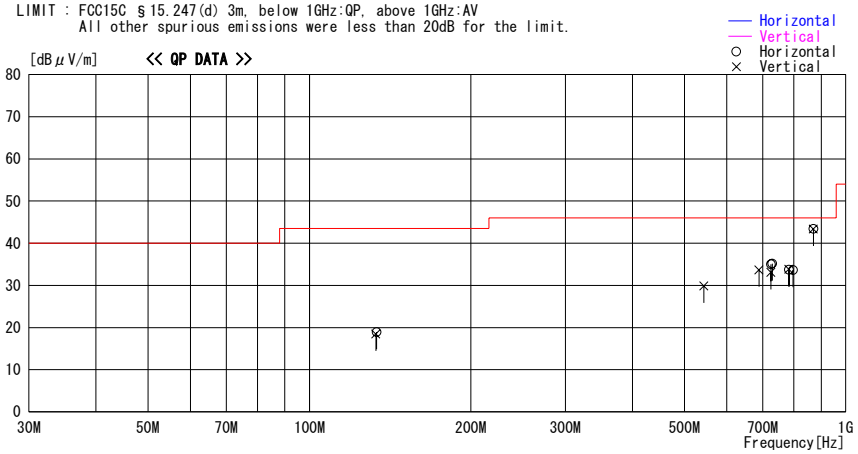
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/09 23:06:32

Applicant : FUJITSU TEN Limited
Kind of EUT : DISPLAY
Model No. : BT002A
Serial No. : 2G000001

Report No. : 25LE0267-HO
Power : DC13.2V
Temp./Humi. : 25deg.C / 65%
Operator : Mitsuru Fujimura

Mode / Remarks : Transmitting Bluetooth 2480MHz

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
132.947	23.7	QP	13.9	-19.1	18.5	1	100	Vert.	43.5	25.0	
133.488	24.0	QP	14.0	-19.1	18.9	287	232	Hori.	43.5	24.6	
543.536	27.9	QP	19.2	-17.2	29.9	359	181	Vert.	46.0	16.1	
688.494	29.4	QP	20.7	-16.4	33.7	359	100	Vert.	46.0	12.3	
724.710	28.4	QP	20.9	-16.2	33.1	359	161	Vert.	46.0	12.9	
724.738	30.3	QP	20.9	-16.2	35.0	117	113	Hori.	46.0	11.0	
729.015	30.5	QP	20.9	-16.2	35.2	120	109	Hori.	46.0	10.8	
783.020	28.5	QP	21.1	-15.8	33.8	335	170	Vert.	46.0	12.2	
783.025	28.4	QP	21.1	-15.8	33.7	294	100	Hori.	46.0	12.3	
797.199	28.1	QP	21.2	-15.7	33.6	26	100	Hori.	46.0	12.4	
869.664	37.5	QP	21.3	-15.4	43.4	345	143	Vert.	46.0	2.6	
869.677	37.5	QP	21.3	-15.4	43.4	31	159	Hori.	46.0	2.6	

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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

* 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

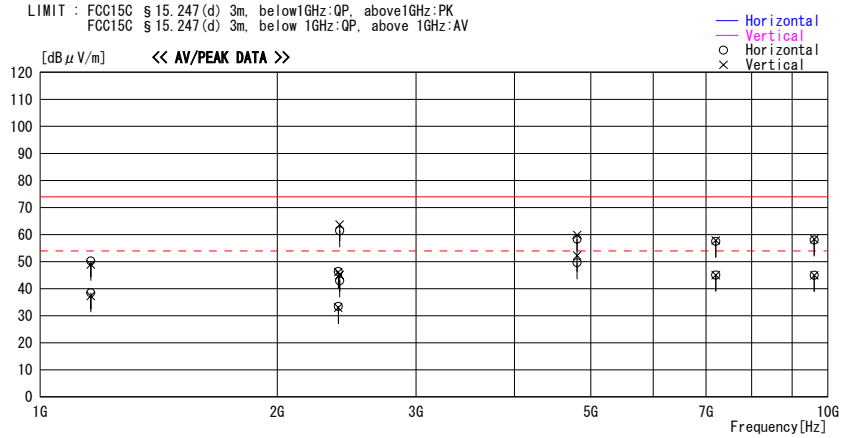
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2005/09/07 22:19:04

Applicant : FUJITSU TEN Limited
Kind of EUT : DISPLAY
Model No. : BT002A
Serial No. : 2G000001

Report No. : 25LE0267-HO
Power : DC13.2V
Temp./Humi. : 27deg.C / 57%
Operator : Makoto Kosaka

Mode / Remarks : Transmitting Bluetooth 2402MHz

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
1159.516	61.4	PK	23.2	-34.3	50.3	220	164	Hori.	74.0	23.7	
1159.516	60.1	PK	23.2	-34.3	49.0	0	110	Vert.	74.0	25.0	
1159.516	49.6	AV	23.2	-34.3	38.5	220	164	Hori.	54.0	15.5	
1159.516	48.4	AV	23.2	-34.3	37.3	0	110	Vert.	54.0	16.7	
2390.000	48.5	PK	30.5	-32.7	46.3	288	141	Hori.	74.0	27.7	
2390.000	48.4	PK	30.5	-32.7	46.2	335	110	Vert.	74.0	27.9	
2390.000	35.7	AV	30.5	-32.7	33.5	288	141	Hori.	54.0	20.5	
2390.000	35.2	AV	30.5	-32.7	33.0	335	110	Vert.	54.0	21.0	
2400.000	45.1	AV	30.5	-32.7	42.9	288	148	Hori.	54.0	11.1	
2400.000	47.3	AV	30.5	-32.7	45.1	335	115	Vert.	54.0	8.9	
2400.000	63.6	PK	30.5	-32.7	61.4	288	148	Hori.	74.0	12.6	
2400.000	65.9	PK	30.5	-32.7	63.7	335	115	Vert.	74.0	10.3	
4804.000	44.1	AV	35.2	-29.7	49.6	31	123	Hori.	54.0	4.4	With_HPF
4804.000	46.7	AV	35.2	-29.7	52.2	180	100	Vert.	54.0	1.8	With_HPF
4804.000	52.8	PK	35.2	-29.7	58.3	31	123	Hori.	74.0	15.7	With_HPF
4804.000	54.3	PK	35.2	-29.7	59.8	180	100	Vert.	74.0	14.2	With_HPF
7206.000	48.9	PK	37.7	-29.1	57.5	0	100	Hori.	74.0	16.5	With_HPF
7206.000	49.2	PK	37.7	-29.1	57.8	0	100	Vert.	74.0	16.2	With_HPF
7206.000	36.4	AV	37.7	-29.1	45.0	0	100	Hori.	54.0	9.0	With_HPF
7206.000	36.4	AV	37.7	-29.1	45.0	0	100	Vert.	54.0	9.0	With_HPF
9608.000	49.4	PK	37.0	-28.4	58.0	0	100	Hori.	74.0	16.0	With_HPF
9608.000	49.7	PK	37.0	-28.4	58.3	0	100	Vert.	74.0	15.7	With_HPF

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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

* 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.2 Semi Anechoic Chamber
Date : 2005/09/07 22:19:04

Applicant : FUJITSU TEN Limited
Kind of EUT : DISPLAY
Model No. : BT002A
Serial No. : 2G000001

Report No. : 25LE0267-HO
Power : DC13.2V
Temp./Humi. : 27deg.C / 57%
Operator : Makoto Kosaka

Mode / Remarks : Transmitting Bluetooth 2402MHz

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV

Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
9608.000	36.4	AV	37.0	-28.4	45.0	0	100	Hori.	54.0	9.0	With_HPF
9608.000	36.3	AV	37.0	-28.4	44.9	0	100	Vert.	54.0	9.1	With_HPF

*20dBc is applied (please refer to page 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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

* 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

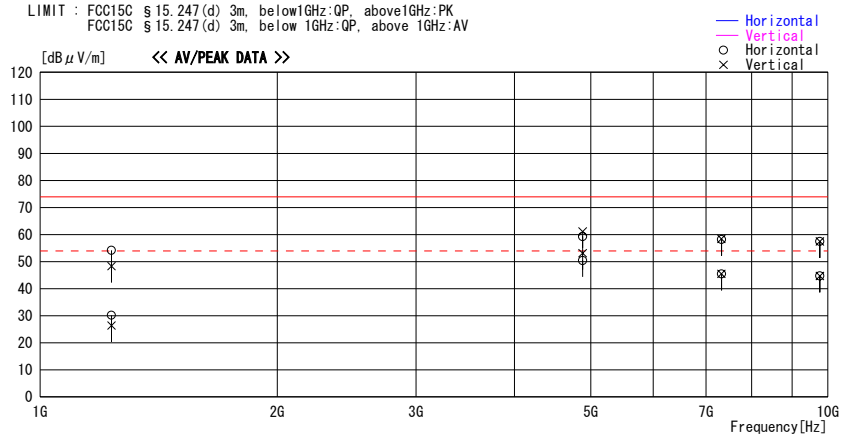
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2005/09/08 01:26:02

Applicant : FUJITSU TEN Limited
Kind of EUT : DISPLAY
Model No. : BT002A
Serial No. : 2G000001

Report No. : 25LE0267-HO
Power : DC13.2V
Temp./Humi. : 27deg.C / 57%
Operator : Makoto Kosaka

Mode / Remarks : Transmitting Bluetooth 2441MHz

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
1232.000	64.9	PK	23.4	-34.1	54.2	265	100	Hori.	74.0	19.8	
1232.000	59.0	PK	23.4	-34.1	48.3	155	150	Vert.	74.0	25.7	
1232.000	40.9	AV	23.4	-34.1	30.2	265	100	Hori.	54.0	23.9	
1232.000	37.1	AV	23.4	-34.1	26.4	155	150	Vert.	54.0	27.6	
4882.000	53.4	PK	35.6	-29.7	59.3	130	100	Hori.	74.0	14.7	With HPF
4882.000	55.2	PK	35.6	-29.7	61.1	175	100	Vert.	74.0	12.9	With HPF
4882.000	44.5	AV	35.6	-29.7	50.4	130	100	Hori.	54.0	3.6	With HPF
4882.000	47.2	AV	35.6	-29.7	53.1	175	100	Vert.	54.0	0.9	With HPF
7323.000	49.2	PK	37.9	-28.9	58.2	0	100	Hori.	74.0	15.8	With HPF
7323.000	49.4	PK	37.9	-28.9	58.4	0	100	Vert.	74.0	15.6	With HPF
7323.000	36.5	AV	37.9	-28.9	45.5	0	100	Hori.	54.0	8.5	With HPF
7323.000	36.5	AV	37.9	-28.9	45.5	0	100	Vert.	54.0	8.5	With HPF
9764.000	48.7	PK	36.8	-28.1	57.4	0	100	Hori.	74.0	16.6	With HPF
9764.000	48.8	PK	36.8	-28.1	57.5	0	100	Vert.	74.0	16.5	With HPF
9764.000	36.0	AV	36.8	-28.1	44.7	0	100	Hori.	54.0	9.3	With HPF
9764.000	36.0	AV	36.8	-28.1	44.7	0	100	Vert.	54.0	9.3	With HPF

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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

* 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

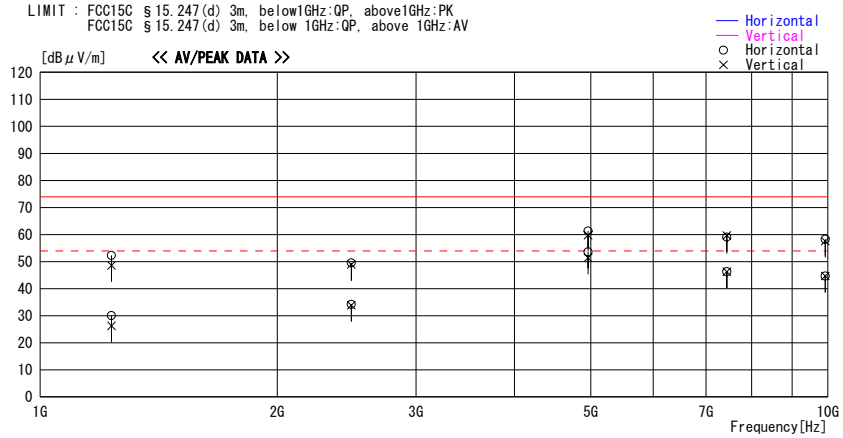
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2005/09/08 02:01:14

Applicant : FUJITSU TEN Limited
Kind of EUT : DISPLAY
Model No. : BT002A
Serial No. : 2G000001

Report No. : 25LE0267-HO
Power : DC13.2V
Temp./Humi. : 27deg.C / 57%
Operator : Makoto Kosaka

Mode / Remarks : Transmitting Bluetooth 2480MHz

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
1232.000	63.0	PK	23.4	-34.1	52.3	262	100	Hori.	74.0	21.7	
1232.000	59.3	PK	23.4	-34.1	48.6	153	148	Vert.	74.0	25.4	
1232.000	40.8	AV	23.4	-34.1	30.1	262	100	Hori.	54.0	24.0	
1232.000	37.0	AV	23.4	-34.1	26.3	153	148	Vert.	54.0	27.7	
2483.500	51.8	PK	30.5	-32.7	49.6	288	116	Hori.	74.0	24.4	
2483.500	51.1	PK	30.5	-32.7	48.9	308	111	Vert.	74.0	25.1	
2483.500	36.4	AV	30.5	-32.7	34.2	288	116	Hori.	54.0	19.8	
2483.500	36.1	AV	30.5	-32.7	33.9	308	111	Vert.	54.0	20.2	
4960.000	54.6	PK	36.1	-29.4	61.3	32	100	Hori.	74.0	12.7	With HPF
4960.000	53.1	PK	36.1	-29.4	59.8	276	100	Vert.	74.0	14.2	With HPF
4960.000	46.9	AV	36.1	-29.4	53.6	32	100	Hori.	54.0	0.4	With HPF
4960.000	44.7	AV	36.1	-29.4	51.4	276	100	Vert.	54.0	2.6	With HPF
7440.000	49.4	PK	38.1	-28.4	59.1	0	100	Hori.	74.0	14.9	With HPF
7440.000	50.0	PK	38.1	-28.4	59.7	0	100	Vert.	74.0	14.3	With HPF
7440.000	36.6	AV	38.1	-28.4	46.3	0	100	Hori.	54.0	7.7	With HPF
7440.000	36.6	AV	38.1	-28.4	46.3	0	100	Vert.	54.0	7.7	With HPF
9920.000	49.6	PK	36.7	-28.1	58.2	0	100	Hori.	74.0	15.8	With HPF
9920.000	49.0	PK	36.7	-28.1	57.6	0	100	Vert.	74.0	16.4	With HPF
9920.000	36.1	AV	36.7	-28.1	44.7	0	100	Hori.	54.0	9.3	With HPF
9920.000	36.1	AV	36.7	-28.1	44.7	0	100	Vert.	54.0	9.3	With HPF

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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

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

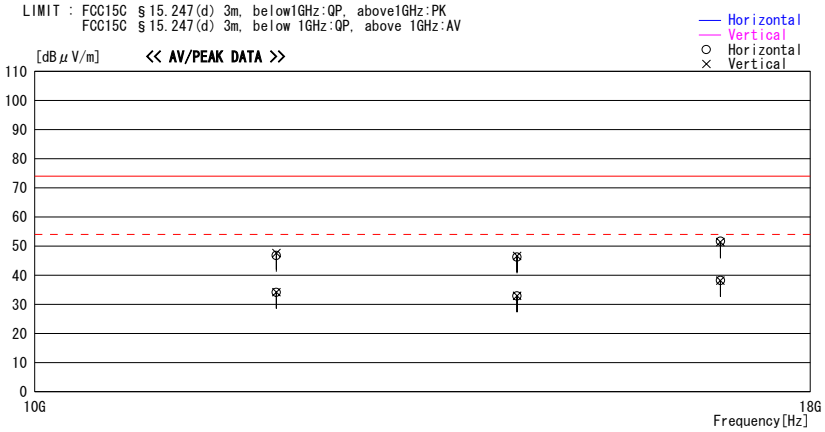
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/08 21:20:19

Applicant	: FUJITSU TEN Limited	Report No.	: 25LE0267-HO
Kind of EUT	: DISPLAY	Power	: DC13.2V
Model No.	: BT002A	Temp./Humi.	: 27deg.C / 57%
Serial No.	: 2G000001	Operator	: Mitsuru Fujimura

Mode / Remarks : Transmitting Bluetooth 2402MHz

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
12010.000	47.9	PK	41.4	-42.5	46.8	0	100	Hori.	74.0	27.2	
12010.000	35.2	AV	41.4	-42.5	34.1	0	100	Hori.	54.0	19.9	
12010.000	48.7	PK	41.4	-42.5	47.6	0	100	Vert.	74.0	26.4	
12010.000	35.3	AV	41.4	-42.5	34.2	0	100	Vert.	54.0	19.8	
14412.000	48.3	PK	41.7	-43.8	46.2	0	100	Hori.	74.0	27.8	
14412.000	35.0	AV	41.7	-43.8	32.9	0	100	Hori.	54.0	21.1	
14412.000	48.7	PK	41.7	-43.8	46.6	0	100	Vert.	74.0	27.4	
14412.000	35.0	AV	41.7	-43.8	32.9	0	100	Vert.	54.0	21.1	
16814.000	48.9	PK	44.7	-41.9	51.7	0	100	Hori.	74.0	22.4	
16814.000	35.4	AV	44.7	-41.9	38.2	0	100	Hori.	54.0	15.8	
16814.000	48.6	PK	44.7	-41.9	51.4	0	100	Vert.	74.0	22.6	
16814.000	35.4	AV	44.7	-41.9	38.2	0	100	Vert.	54.0	15.8	

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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

* 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

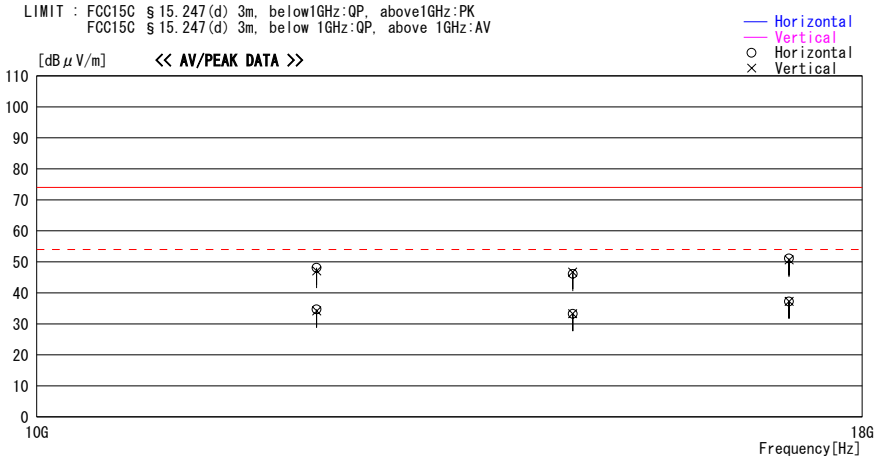
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/08 21:27:40

Applicant : FUJITSU TEN Limited
Kind of EUT : DISPLAY
Model No. : BT002A
Serial No. : 2G000001

Report No. : 25LE0267-HO
Power : DC13.2V
Temp./Humi. : 24deg.C / 65%
Operator : Mitsuru Fujimura

Mode / Remarks : Transmitting Bluetooth 2441MHz

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
12205.000	49.2	PK	41.5	-42.6	48.1	0	100	Hori.	74.0	25.9	
12205.000	35.8	AV	41.5	-42.6	34.7	0	100	Hori.	54.0	19.3	
12205.000	48.2	PK	41.5	-42.6	47.1	0	100	Vert.	74.0	26.9	
12205.000	35.3	AV	41.5	-42.6	34.2	0	100	Vert.	54.0	19.8	
14646.000	47.4	PK	42.2	-43.5	46.1	0	100	Hori.	74.0	27.9	
14646.000	34.6	AV	42.2	-43.5	33.3	0	100	Hori.	54.0	20.8	
14646.000	48.1	PK	42.2	-43.5	46.8	0	100	Vert.	74.0	27.2	
14646.000	34.6	AV	42.2	-43.5	33.3	0	100	Vert.	54.0	20.7	
17087.000	48.5	PK	44.5	-41.8	51.2	0	100	Hori.	74.0	22.8	
17087.000	34.6	AV	44.5	-41.8	37.3	0	100	Hori.	54.0	16.8	
17087.000	47.9	PK	44.5	-41.8	50.6	0	100	Vert.	74.0	23.4	
17087.000	34.5	AV	44.5	-41.8	37.2	0	100	Vert.	54.0	16.8	

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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

* 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

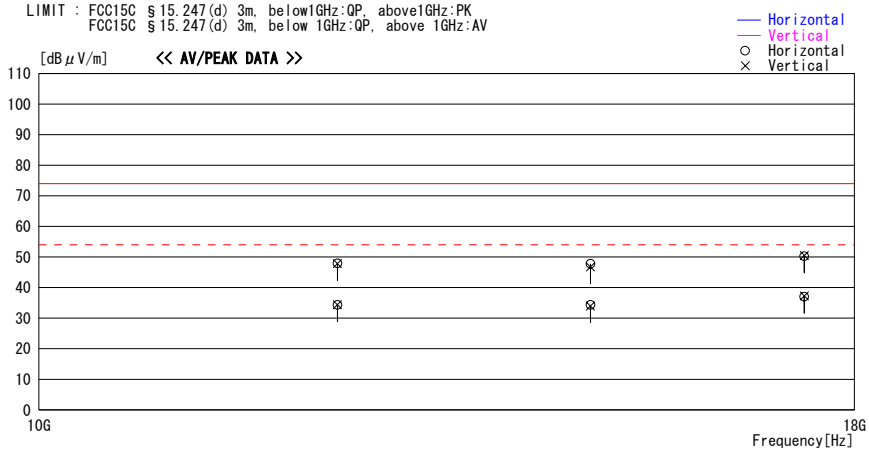
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/08 21:29:32

Applicant : FUJITSU TEN Limited
Kind of EUT : DISPLAY
Model No. : BT002A
Serial No. : 2G000001

Report No. : 25LE0267-HO
Power : DC13.2V
Temp./Humi. : 24deg.C / 65%
Operator : Mitsuru Fujimura

Mode / Remarks : Transmitting Bluetooth 2480MHz

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
12400.000	49.1	PK	41.6	-42.8	47.9	0	100	Hori.	74.0	26.1	
12400.000	35.6	AV	41.6	-42.8	34.4	0	100	Hori.	54.0	19.6	
12400.000	49.1	PK	41.6	-42.8	47.9	0	100	Vert.	74.0	26.1	
12400.000	35.6	AV	41.6	-42.8	34.4	0	100	Vert.	54.0	19.6	
14880.000	48.1	PK	42.6	-42.9	47.8	0	100	Hori.	74.0	26.2	
14880.000	34.7	AV	42.6	-42.9	34.4	0	100	Hori.	54.0	19.6	
14880.000	47.0	PK	42.6	-42.9	46.7	0	100	Vert.	74.0	27.3	
14880.000	34.3	AV	42.6	-42.9	34.0	0	100	Vert.	54.0	20.0	
17360.000	47.8	PK	44.4	-42.0	50.2	0	100	Hori.	74.0	23.8	
17360.000	34.6	AV	44.4	-42.0	37.0	0	100	Hori.	54.0	17.0	
17360.000	48.1	PK	44.4	-42.0	50.5	0	100	Vert.	74.0	23.5	
17360.000	34.9	AV	44.4	-42.0	37.3	0	100	Vert.	54.0	16.7	

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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

* 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

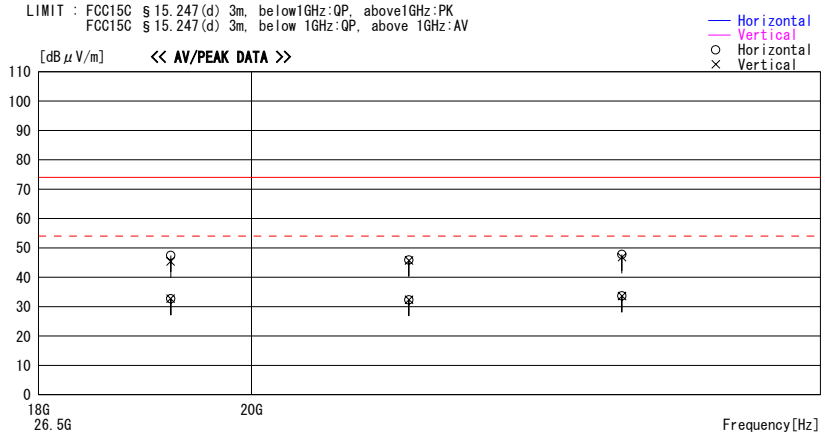
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/08 22:14:16

Applicant : FUJITSU TEN Limited
Kind of EUT : DISPLAY
Model No. : BT002A
Serial No. : 2G000001

Report No. : 25LE0267-HO
Power : DC13.2V
Temp./Humi. : 24deg.C / 65%
Operator : Mitsuru Fujimura

Mode / Remarks : Transmitting Bluetooth 2402MHz

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
19216.000	46.5	PK	41.7	-40.7	47.5	0	100	Hori.	74.0	26.5	
19216.000	31.7	AV	41.7	-40.7	32.7	0	100	Hori.	54.0	21.3	
19216.000	44.4	PK	41.7	-40.7	45.4	0	100	Vert.	74.0	28.6	
19216.000	31.7	AV	41.7	-40.7	32.7	0	100	Vert.	54.0	21.3	
21618.000	45.9	PK	40.4	-40.4	45.9	0	100	Hori.	74.0	28.1	
21618.000	32.4	AV	40.4	-40.4	32.4	0	100	Hori.	54.0	21.6	
21618.000	45.8	PK	40.4	-40.4	45.8	0	100	Vert.	74.0	28.3	
21618.000	32.5	AV	40.4	-40.4	32.5	0	100	Vert.	54.0	21.6	
24020.000	46.0	PK	41.0	-39.2	47.8	0	100	Hori.	74.0	26.2	
24020.000	31.9	AV	41.0	-39.2	33.7	0	100	Hori.	54.0	20.3	
24020.000	45.1	PK	41.0	-39.2	46.9	0	100	Vert.	74.0	27.1	
24020.000	31.9	AV	41.0	-39.2	33.7	0	100	Vert.	54.0	20.3	

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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

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

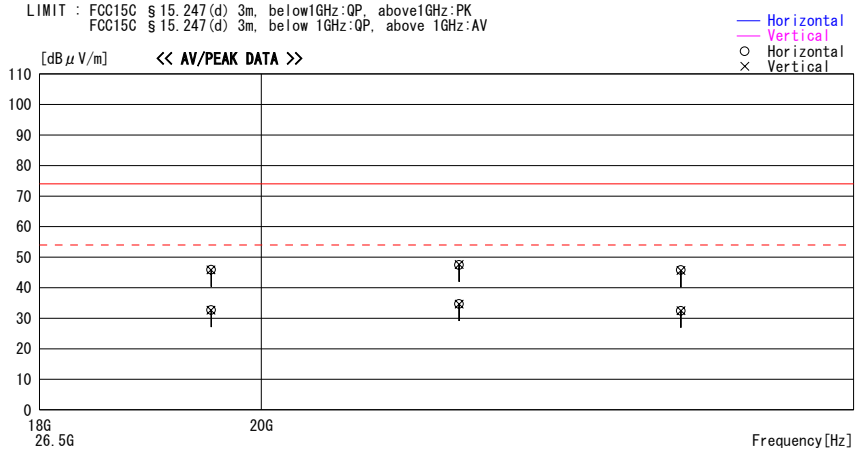
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/08 22:16:54

Applicant	: FUJITSU TEN Limited	Report No.	: 25LE0267-HO
Kind of EUT	: DISPLAY	Power	: DC13.2V
Model No.	: BT002A	Temp./Humi.	: 24deg.C / 65%
Serial No.	: 2G000001	Operator	: Mitsuru Fujimura

Mode / Remarks : Transmitting Bluetooth 2441MHz

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
19528.000	45.1	PK	41.4	-40.6	45.9	0	100	Hori.	74.0	28.1	
19528.000	31.8	AV	41.4	-40.6	32.6	0	100	Hori.	54.0	21.4	
19528.000	45.1	PK	41.4	-40.6	45.9	0	100	Vert.	74.0	28.1	
19528.000	31.9	AV	41.4	-40.6	32.7	0	100	Vert.	54.0	21.4	
21969.000	47.3	PK	40.5	-40.3	47.5	0	100	Hori.	74.0	26.5	
21969.000	34.5	AV	40.5	-40.3	34.7	0	100	Hori.	54.0	19.4	
21969.000	47.4	PK	40.5	-40.3	47.6	0	100	Vert.	74.0	26.4	
21969.000	34.5	AV	40.5	-40.3	34.7	0	100	Vert.	54.0	19.3	
24410.000	44.5	PK	41.1	-39.9	45.7	0	100	Hori.	74.0	28.3	
24410.000	31.3	AV	41.1	-39.9	32.5	0	100	Hori.	54.0	21.5	
24410.000	44.4	PK	41.1	-39.9	45.6	0	100	Vert.	74.0	28.4	
24410.000	31.3	AV	41.1	-39.9	32.5	0	100	Vert.	54.0	21.5	

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)
Except for the data below : adequate margin data below the limits.

Radiated Spurious Emission

* 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

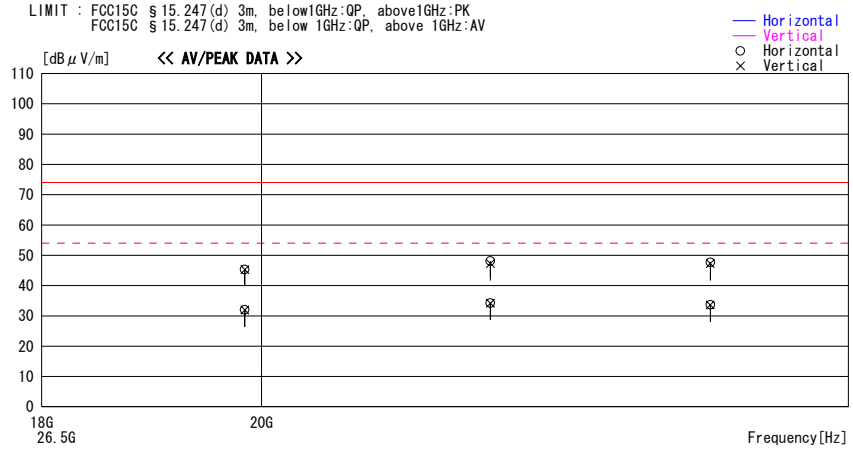
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/08 22:19:41

Applicant : FUJITSU TEN Limited
Kind of EUT : DISPLAY
Model No. : BT002A
Serial No. : 2G000001

Report No. : 25LE0267-HO
Power : DC13.2V
Temp./Humi. : 24deg.C / 65%
Operator : Mitsuru Fujimura

Mode / Remarks : Transmitting Bluetooth 2480MHz

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
19840.000	44.8	PK	41.1	-40.5	45.4	0	100	Hori.	74.0	28.6	
19840.000	31.4	AV	41.1	-40.5	32.0	0	100	Hori.	54.0	22.0	
19840.000	44.7	PK	41.1	-40.5	45.3	0	100	Vert.	74.0	28.7	
19840.000	31.4	AV	41.1	-40.5	32.0	0	100	Vert.	54.0	22.0	
22320.000	47.7	PK	40.4	-40.0	48.1	0	100	Hori.	74.0	25.9	
22320.000	33.8	AV	40.4	-40.0	34.2	0	100	Hori.	54.0	19.8	
22320.000	46.9	PK	40.4	-40.0	47.3	0	100	Vert.	74.0	26.7	
22320.000	33.8	AV	40.4	-40.0	34.2	0	100	Vert.	54.0	19.8	
24800.000	46.9	PK	41.1	-40.3	47.7	0	100	Hori.	74.0	26.3	
24800.000	32.8	AV	41.1	-40.3	33.6	0	100	Hori.	54.0	20.4	
24800.000	46.5	PK	41.1	-40.3	47.3	0	100	Vert.	74.0	26.8	
24800.000	32.8	AV	41.1	-40.3	33.6	0	100	Vert.	54.0	20.4	

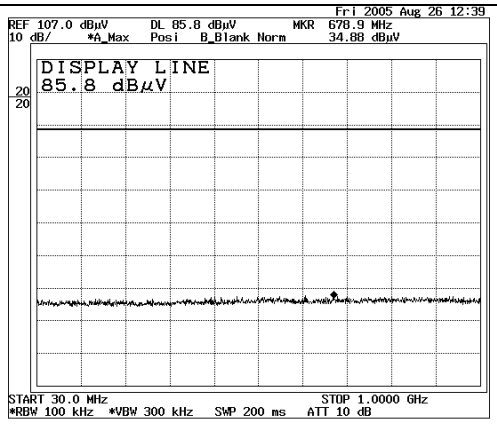
CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)
Except for the data below : adequate margin data below the limits.

Conducted Spurious Emission

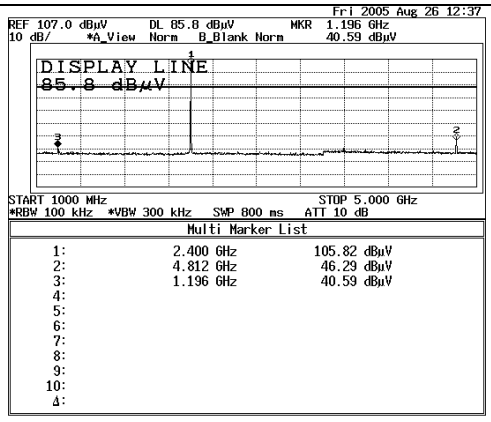
(Test data of BT003A is applied)

Ch: Low

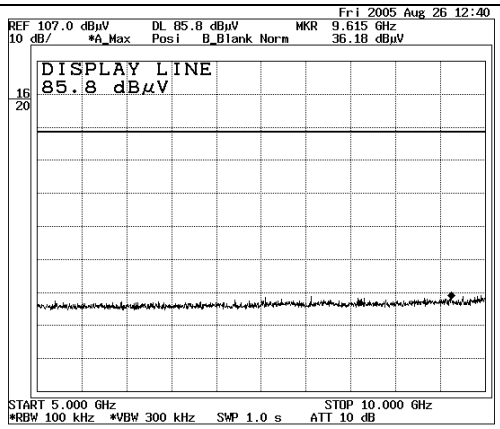
30MHz-1GHz



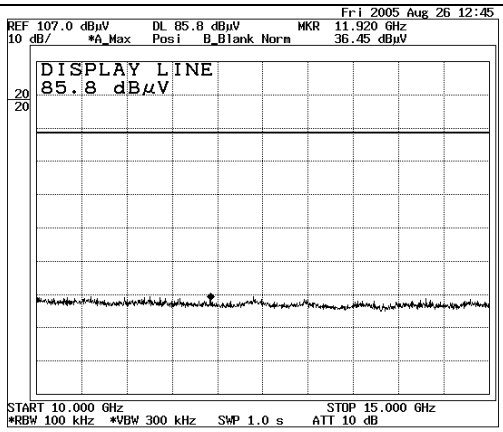
1GHz-5GHz



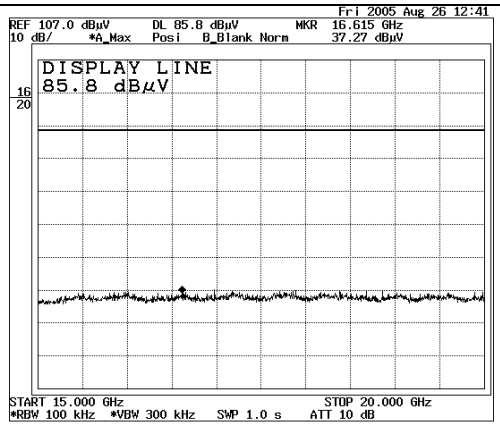
5GHz-10GHz



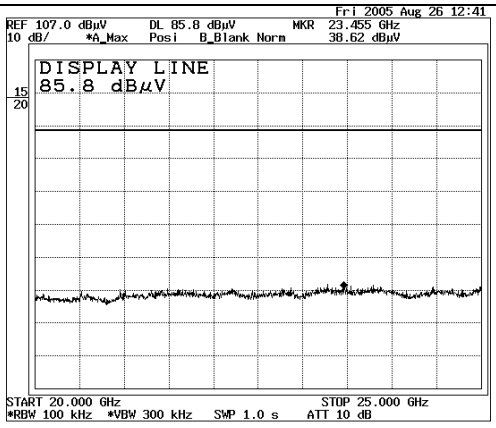
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz

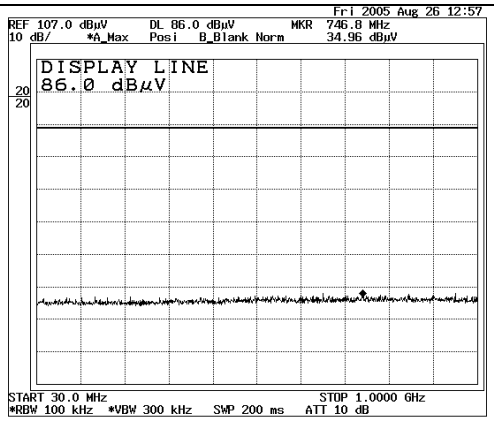


Conducted Spurious Emission

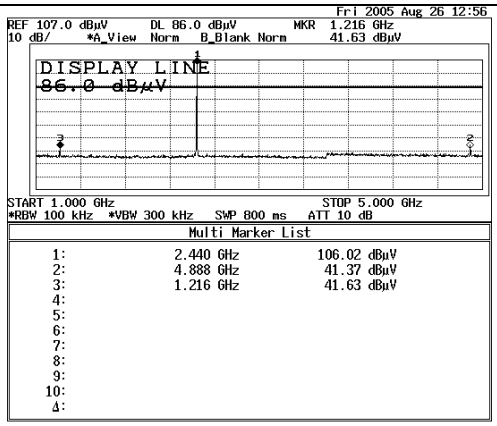
(Test data of BT003A is applied)

Ch:Mid

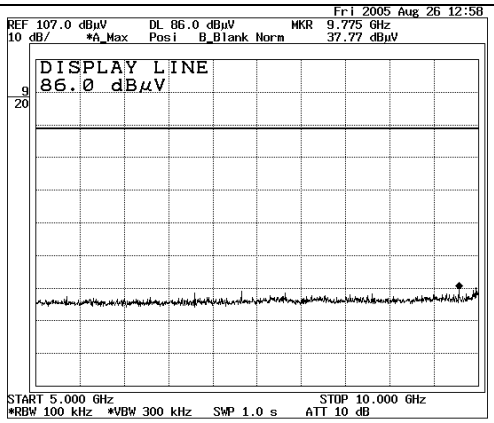
30MHz-1GHz



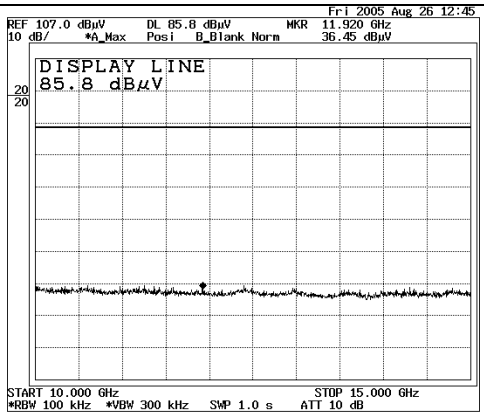
1GHz-5GHz



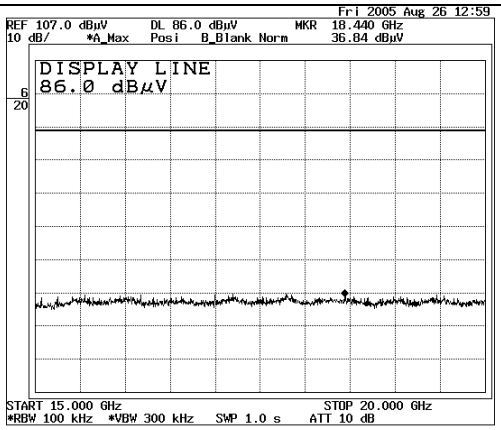
5GHz-10GHz



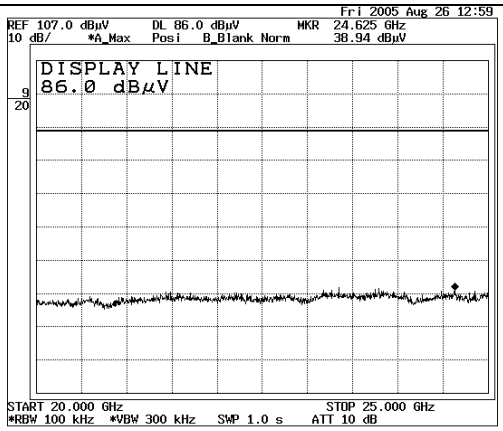
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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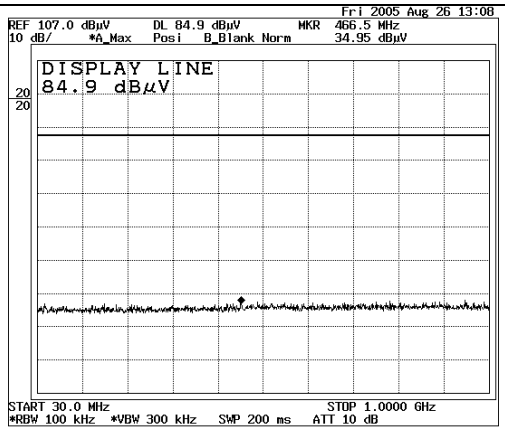
Conducted Spurious Emission

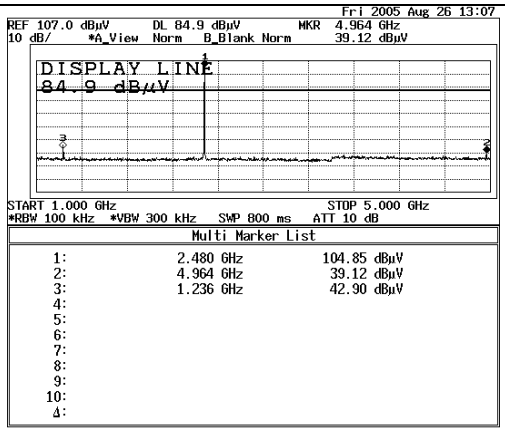
(Test data of BT003A is applied)

Ch:High

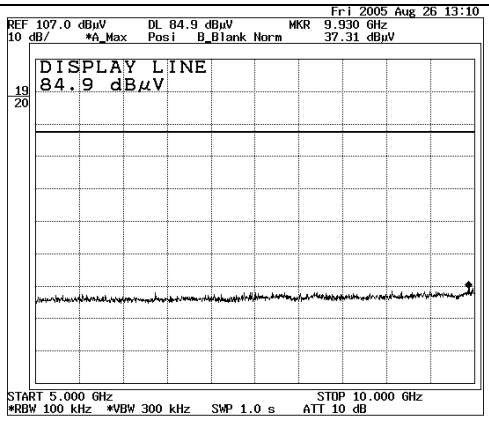
30MHz-1GHz



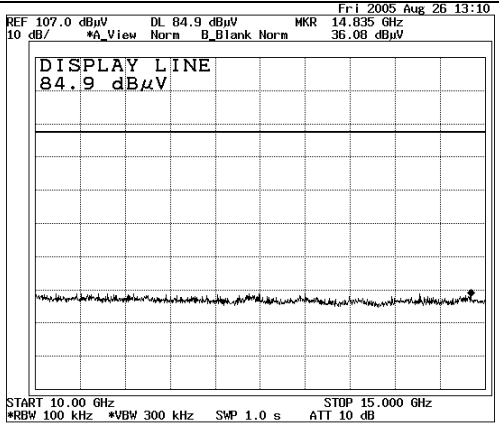
1GHz-5GHz



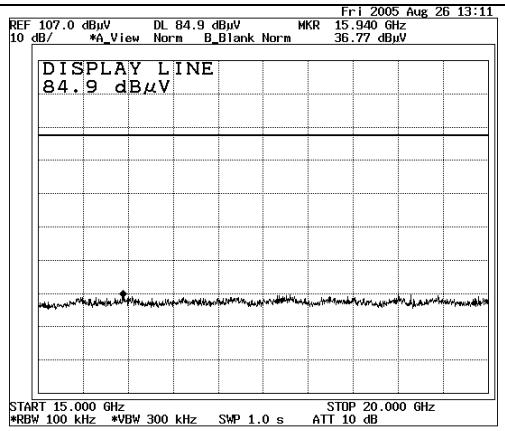
5GHz-10GHz



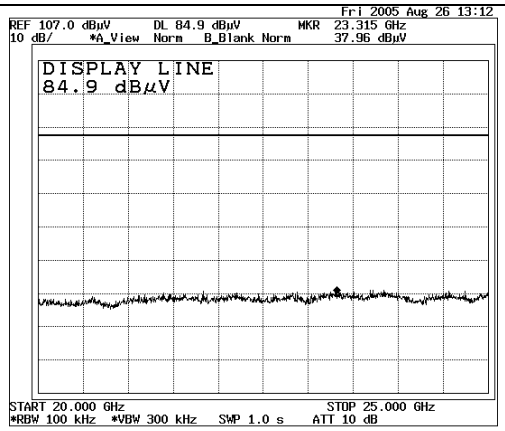
10GHz-15GHz



15GHz-20GHz

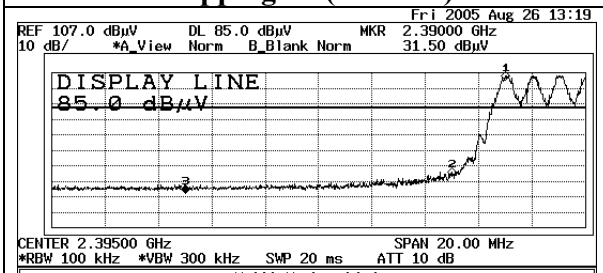


20GHz-25GHz



Conducted Spurious Emission
Band Edge compliance
(Test data of BT003A is applied)

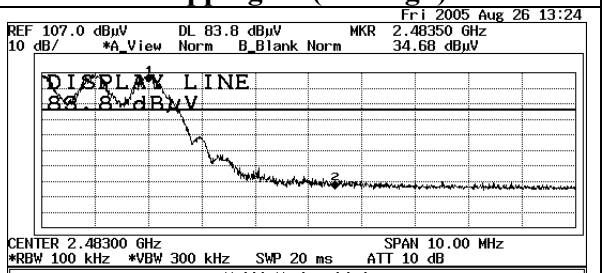
Hopping on (Ch:Low)



Multi Marker List

1:	2.40200 GHz	105.00 dBµV
2:	2.40000 GHz	42.86 dBµV
3:	2.39000 GHz	31.50 dBµV
4:		
5:		
6:		
7:		
8:		
9:		
10:		
Δ:		

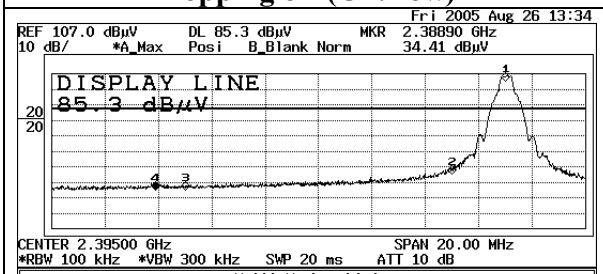
Hopping on (Ch:High)



Multi Marker List

1:	2.48000 GHz	103.79 dBµV
2:	2.48350 GHz	34.68 dBµV
3:		
4:		
5:		
6:		
7:		
8:		
9:		
10:		
Δ:		

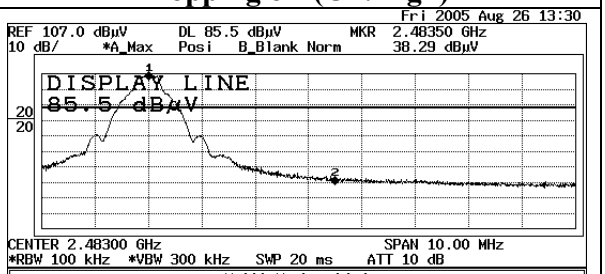
Hopping off (Ch:Low)



Multi Marker List

1:	2.40200 GHz	105.27 dBµV
2:	2.40000 GHz	45.14 dBµV
3:	2.39000 GHz	34.61 dBµV
4:	2.38890 GHz	34.41 dBµV
5:		
6:		
7:		
8:		
9:		
10:		
Δ:		

Hopping off (Ch:High)



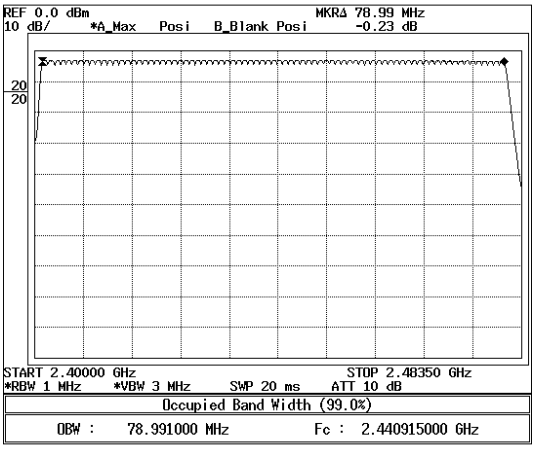
Multi Marker List

1:	2.48000 GHz	105.55 dBµV
2:	2.48350 GHz	38.29 dBµV
3:		
4:		
5:		
6:		
7:		
8:		
9:		
10:		
Δ:		

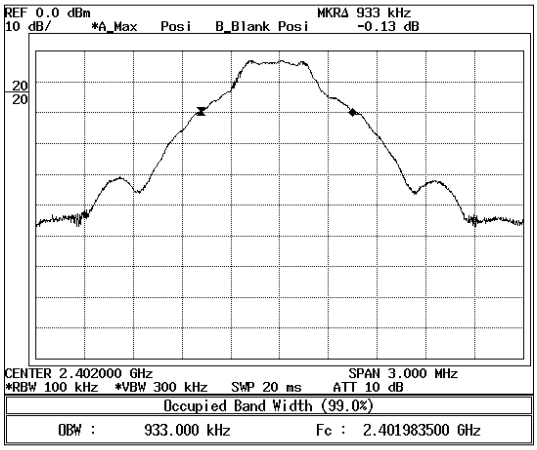
99% Occupied Bandwidth

(Test data of BT003A is applied)

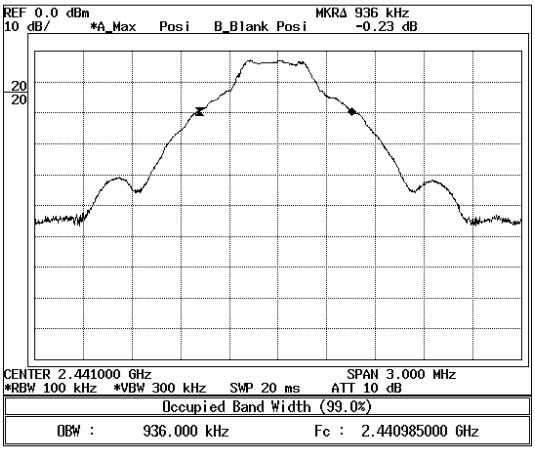
Hopping ON



Hopping OFF : 2402MHz



Hopping OFF : 2441MHz



Hopping OFF : 2480MHz