

No. DAT-P-114/01-01



TEST REPORT

No. 2007BTH0023

Product name	GSM Dual-Band GPRS Mobile Phone	
Model	A996	
Client	Beijing Tianyu Communication Equipment Co., Ltd	
Classification of test	Type Approval	

Telecommunication Metrology Centerof Ministry of Information Industry

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Product Name	GSM Dual-Band GPRS	Model	A996
	Mobile Phone	Trade mark	,,,,,,
Client	Beijing Tianyu Communication Equipment Co., Ltd		
Manufacturer	Beijing Tianyu Communication Equipment Co., Ltd		
Arrival Date of sample	November 23, 2007	Carrier of the samples	Yang Ye
Quantity of the samples	1	Date of product	1
Series number	135790246811220		
Standard(s)	FCC Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits; general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.		
Conclusion	8 test cases were done. The test results are shown in the clause 6 and annex B. The samples passed all the tests required by the client. Date of issue: 2007-12-06		
Comment	The test result relates only to the tested samples.		

Approved by	The was fr	Reviewed by 10 1/2	Tested by 37 43
,,pp.0.00.07_	(Lu Bingsong)	(Gao Hong)	(Zhang Ying)

(Lu Bingsong - Deputy Director of the laboratory)

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1. Competence and Warranties

Telecommunication Metrology Center of Ministry of Information Industry is a test laboratory accredited by DAR (DATech) – Deutschen Akkreditierungs Rat (The German Accreditation Body Technology) for the tests indicated in the Certificate No. **DAT-P-114/01-01**.

Telecommunication Metrology Center of Ministry of Information Industry is a test laboratory accredited by CNAS–China national Accreditation Service for Conformity Assessment, for the tests indicated in the Certificate No. **L0442**.

Telecommunication Metrology Center of Ministry of Information Industry (hereinafter TMC of MII) is a test laboratory competent to carry out the tests described in this test report.

TMC of MII guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at **TMC of MII** at the time of execution of the test.

TMC of MII is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test.

2. Testing Laboratory

2.1. Testing Location

Name of Company :	Telecommunication Metrology Center of Ministry of Information
	Industry
Address:	No 52, Hua Yuanbei Road, Haidian District, Beijing, P.R.China
Postal Code:	100083
Telephone:	+86-10-62303288
Fax:	+86-10-62304793

2.2. Testing Environment

Shielding Room1 (4.5 meters×4 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 $^{\circ}$ C, Max. = 30 $^{\circ}$ C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Ground system resistance	< 0.5 Ω

Shielding room2 did not exceed following limits along the EMC testing:

Temperature	Min. = 15 $^{\circ}$ C, Max. = 30 $^{\circ}$ C
Relative humidity	Min. = 35 %, Max. = 60 %

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Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (6.8 meters×3.08 meters×3.53 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 $^{\circ}$ C, Max. = 30 $^{\circ}$ C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Fully-anechoic chamber2 (6.0 meters×4.0 meters×3.67 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 $^{\circ}$ C, Max. = 30 $^{\circ}$ C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

Control room did not exceed following limits along the EMC testing:

	· · · · · · · · · · · · · · · · · · ·
Temperature	Min. = 15 $^{\circ}$ C, Max. = 35 $^{\circ}$ C
Relative humidity	Min. =20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Semi-anechoic chamber (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

<u>.</u> 3	
Temperature	Min. = 15 $^{\circ}$ C, Max. = 30 $^{\circ}$ C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

2.3. Testing Period

The performed test started on 25th, November, 2007 and finished on 3rd, December, 2007.

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3. Applicant Information

3.1. Client information

Name of Company:	Beijing Tianyu Communication Equipment Co., Ltd		
Address /Post:	27th Floor, Tengda Plaza, 168 Xizhimenwai Street, Haidian Distric		
Address /Post:	Beijing China		
City:	Beijing		
Postal Code: 100044			
Country:	China		
Telephone:	010-68393572		
Fax:	010-66512209		

3.2. Manufacturer information

Name of Company:	Beijing Tianyu Communication Equipment Co., Ltd		
Address /Post:	27th Floor, Tengda Plaza, 168 Xizhimenwai Street, Haidian Distric		
Addicas /i Oat.	Beijing China		
City:	Beijing		
Postal Code:	de: 100044		
Country:	China		
Telephone:	010-68393572		
Fax:	010-66512209		

4. Equipment Under Test (EUT) and Ancillary Equipment (AE)

4.1. About EUT

Product Name:	GSM Dual-Band GPRS Mobile Phone
Type:	A996
With BlueTooth	Yes
EUT operating voltage- Normal:	3.8V
Extreme Low Voltage:	3.78V
Extreme High Voltage:	4.2V
Extreme temperature:	-10℃ / + 55℃

Note: please refer to ANNEX A in this test report for Photographs of EUT.

4.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	135790246811220	TBM770_P3	077010_590_V1509

^{*}EUT ID is used to identify the test sample in the lab internally.

4.3. Internal Identification of AE used during the test

AE ID*	Description	Туре	SN
AE1	Travel Adapter	ETPCA-053065UY	/

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ΔF2	Li ion Pottony	TYC88252600	1
ALZ	Li-ion Battery	11000232000	/

^{*}AE ID: is used to identify the test sample in the lab internally.

5. Reference Documents

5.1. Documents supplied by applicant

EUT feature information is supplied by the client or manufacturer, which is the basis of testing.

5.2. Reference Documents

The following documents listed in this section are referred for testing.

Reference	Title	Version
	FCC CFR 47, Part 15, Subpart C:	
	15.205 Restricted bands of operation;	May 4, 2007
FCC Part15	15.209 Radiated emission limits, general requirements;	Edition
	15.247 Operation within the bands 902-928MHz,	
	2400-2483.5 MHz, and 5725-5850 MHz.	

6. Test Results

6.1. Summary of Test Results

Abbreviations used in this clause:

P Pass

F Fail

NA not applicable

NM not measured

SUMMARY OF MEASUREMENT RESULTS	Sub-clause	Verdict
Peak Output Power - Conducted	15.247 (b)(1)	Р
Frequency Band Edges	15.247 (c)	Р
Conducted Emission	15.247 (c)	Р
Radiated Emission	15.247, 15.205, 15.209	Р
Time of Occupancy (Dwell Time)	15.247 (a) (1)(iii)	Р
20dB Bandwidth	15.247 (a)(1)	NA
Carrier Frequency Separation	15.247 (a)(1)	Р
Number of hopping channels	15.247 (a)(b)(iii)	Р

Please refer to ANNEX B for detail.

6.2. Statements

TMC has evaluated the test cases requested by the client/manufacturer as listed in section 6.1 of this report for the EUT specified in section 4 according to the standards or reference documents listed in section 5.2.

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7. Test Equipments

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSQ26	200136	Rohde & Schwarz	2008-01-14
2	Bluetooth Tester	CBT	100135	Rohde & Schwarz	2008-11-12

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2008-02-12
2	BiLog Antenna	3142B	9908-1403	EMCO	2008-03-15
3	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2007-12-25
4	Universal Radio Communication Tester	CMU200	105948	Rohde & Schwarz	2008-08-15

Anechoic chamber

Fully anechoic chamber by Frankonia German.

ANNEX A: Photograph of EUT

External Photo



Mobile Phone



Mobile Phone



Charger (AC/DC Adapter)



Label of Charger (AC/DC Adapter)



Battery

Internal Photo



Mobile Phone Disassembly

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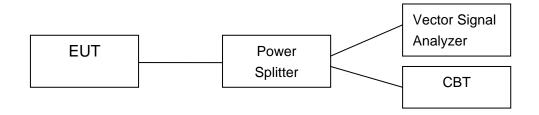


Mobile Phone PCB Front View

ANNEX B: MEASUREMENT RESULTS

B.1 Measurement Method of Conducted Cases

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode (Transmitter, receiver or transmitter & receiver).
- 3). Set the EUT to the required channel.
- 4). Set the EUT hopping mode (hopping or hopping off).
- 5). Set the spectrum analyzer to start measurement.
- 6). Record the values. Vector Signal Analyzer



B.2 Peak Output Power - Conducted

Measurement Limit:

Standard	Limit (dBm)
FCC Part 15.247(b)(1)	< 30

Measurement Results:

model of the fitter				
Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted				
Output Power	-2.25	-3.57	-3.60	Р
(dBm)				

Conclusion: PASS

B.3 Frequency Band Edges – Conducted

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (c)	> 20

Measurement Result:

Channel	Hopping	Band Edge	Power (dBc)	Conclusion
0	Hopping OFF	Fig.1	43.73	Р
U	Hopping ON	Fig.2	42.40	Р
70	Hopping OFF	Fig.3	47.79	Р
78	Hopping ON	Fig.4	51.76	Р

See annex C for test graphs.

Conclusion: PASS

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B.4 Conducted Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (c)	20dB below peak output power in 100 kHz
	bandwidth

Measurement Results:

Channel	Frequency Range	Test Results	Conclusion
01.0	Center Frequency	Fig.5	Р
Ch 0 2402 MHz	30 MHz ~ 1 GHz	Fig.6	Р
210211112	1 GHz ~ 26 GHz	Fig.7	Р
Ch 39	Center Frequency	Fig.8	Р
2441 MHz	30 MHz ~ 1 GHz	Fig.9	Р
2111111112	1 GHz ~ 26 GHz	Fig.10	Р
Ch 78	Center Frequency	Fig.11	Р
2480 MHz	30 MHz ~ 1 GHz	Fig.12	Р
2 100 1011 12	1 GHz ~ 26 GHz	Fig.13	Р

See annex C for test graphs.

Conclusion: PASS

B.5 Radiated Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission	Field strength(uV/m)	Field strength(dBuV/m)
(MHz)		
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Measurement Results:

Channel	Frequency Range	Test Results	Conclusion
Ch 39	2.4GHz~2.5GHz	Fig.14	,
2441 MHz	2.4GHZ~2.5GHZ	F19.14	,
Ch 0	30 MHz ~ 1 GHz	Fig.15	Р
2402 MHz	1 GHz ~ 4 GHz	Fig.16	Р

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	4 GHz ~ 18 GHz	Fig.17	Р
OI- 00	30 MHz ~ 1 GHz	Fig.18	Р
Ch 39 2441 MHz	1 GHz ~ 4 GHz	Fig.19	Р
	4 GHz ~ 18 GHz	Fig.20	Р
Ch 70	30 MHz ~ 1 GHz	Fig.21	Р
Ch 78 2480 MHz	1 GHz ~ 4 GHz	Fig.22	Р
2 100 1111 12	4 GHz ~ 18 GHz	Fig.23	Р
For all channels	18 GHz ~ 26 GHz	Fig.24	Р
Ch78	2.4GHz~2.5GHz	Fig.25	Р
2480MHz	2.4GHZ~2.3GHZ	1 ig.25	r

See annex C for test graphs.

Conclusion: PASS

B.6 Time of Occupancy (Dwell Time)

Measurement Limit:

Standard	Limit (ms)
FCC 47 CFR Part 15.247(a) (1)(iii)	< 400

Measurement Result:

Channel	Dwell Time (ms)		Conclusion
39	Fig.26	359.06	Р

See annex C for test graphs.

Conclusion: PASS

B.7 20dB Bandwidth

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)(1)	NA *

^{*} Comment: This test case is not required according to the latest FCC 47 CFR Part 15.247. But the test results are necessary for "carrier frequency separation" test case, in Annex B.8.

Measurement Results:

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.27	947.27	NA
39	Fig.28	921.63	NA
78	Fig.29	921.63	NA

See annex C for test graphs.

Conclusion: NA

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B.8 Carrier Frequency Separation

Measurement Limit:

Standard	Limit(kHz)	
FCC 47 CFR Part 15.247(a)(1)	> 614.32	

^{*} Comment: This limit should be over 25 kHz or (2/3) * 20dB bandwidth, whichever is greater. The value of (2/3) * 20dB bandwidth is 614.32 kHz, and it is greater than 25 kHz.

The 20 dB bandwidth in channel 39 is 921.63 kHz, so the limit of

Measurement Result:

Channel	Carrier frequency separation (kHz)		Conclusion
39	Fig.30	1009.62	Р

See annex C for test graphs.

Conclusion: PASS

B.9 Number of Hopping Channels

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a) (1)(iii)	> 75

Measurement Result:

Channel	Number of hopping channels		Conclusion
0~39	Fig.31	79	P
40~78	Fig.32		

ANNEX C: TEST FIGURE LIST

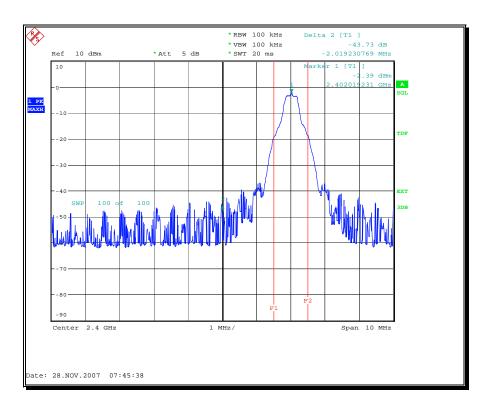


Fig. 1 Frequency Band Edges: Channel 0, Hopping Off

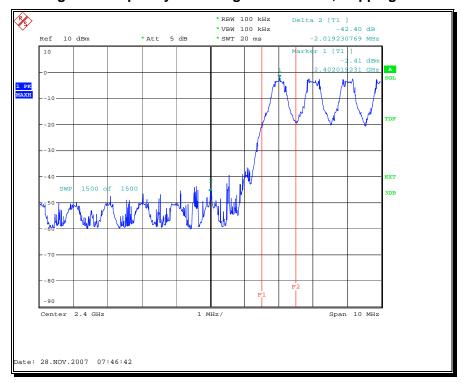


Fig. 2 Frequency Band Edges: Channel 0, Hopping On

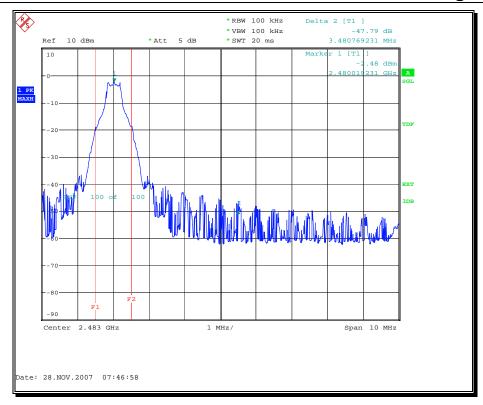


Fig. 3 Frequency Band Edges: Channel 78, Hopping Off

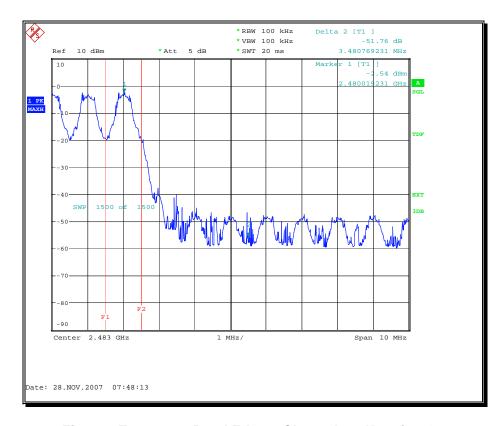
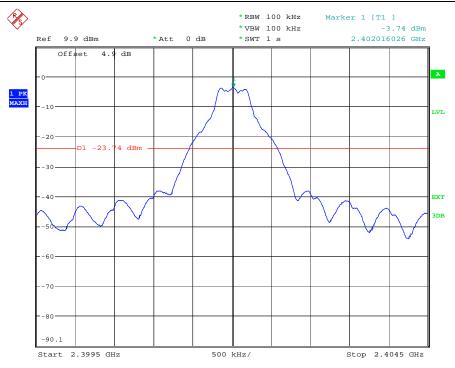


Fig. 4 Frequency Band Edges: Channel 78, Hopping On

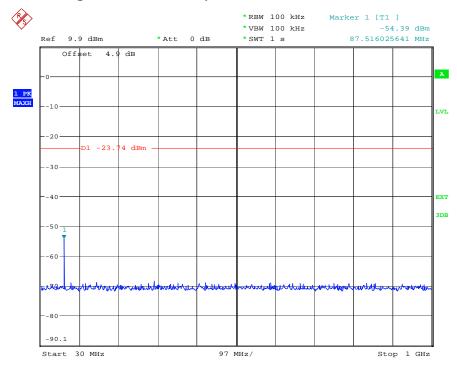
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Date: 29.NOV.2007 03:37:31

Fig. 5 Conducted spurious emission: Channel 0,2402MHz

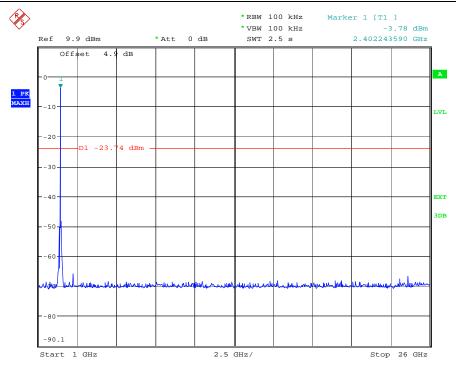


Date: 29.NOV.2007 03:38:11

Fig. 6 Conducted spurious emission: Channel 0, 30MHz - 1GHz

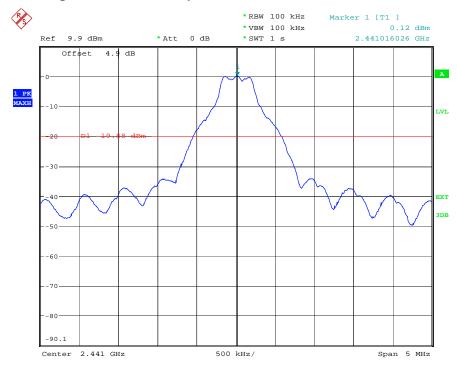
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Date: 29.NOV.2007 04:05:01

Fig. 7 Conducted spurious emission: Channel 0,1GHz - 26GHz

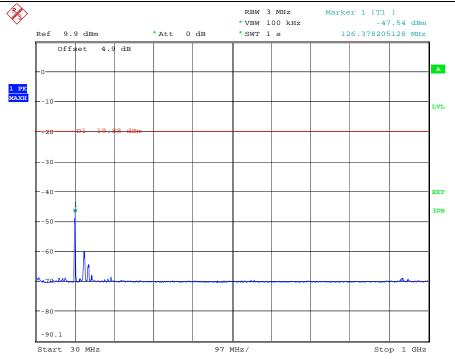


Date: 29.NOV.2007 03:42:41

Fig. 8 Conducted spurious emission: Channel 39, 2441MHz

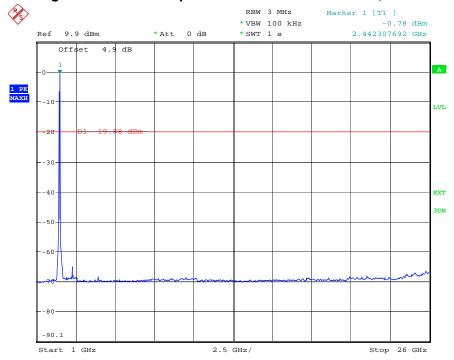
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Date: 29.NOV.2007 08:25:31

Fig. 9 Conducted spurious emission: Channel 39, 30MHz - 1GHz

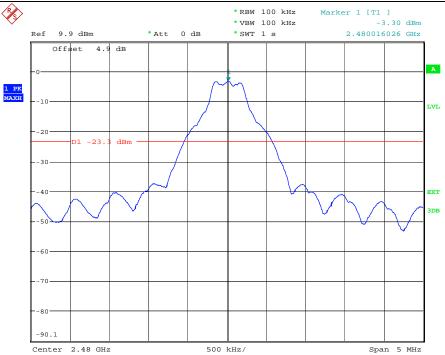


Date: 29.NOV.2007 08:26:27

Fig. 10 Conducted spurious emission: Channel 39, 1GHz - 26GHz

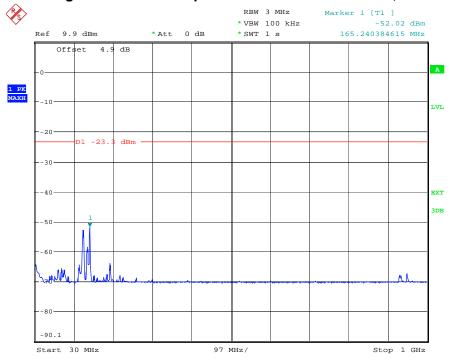
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Date: 29.NOV.2007 03:47:03

Fig. 11 Conducted spurious emission: Channel 78, 2480MHz

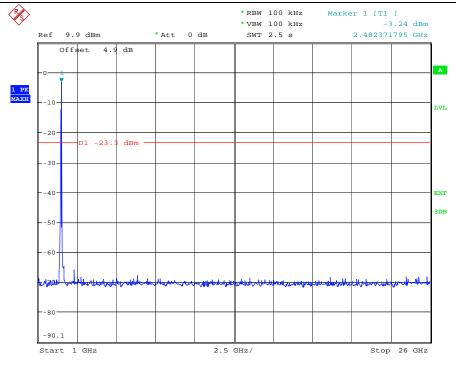


Date: 29.NOV.2007 08:29:15

Fig. 12 Conducted spurious emission: Channel 78, 30MHz - 1GHz

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Date: 29.NOV.2007 03:48:41

Fig. 13 Conducted spurious emission: Channel 78, 1GHz - 26GHz

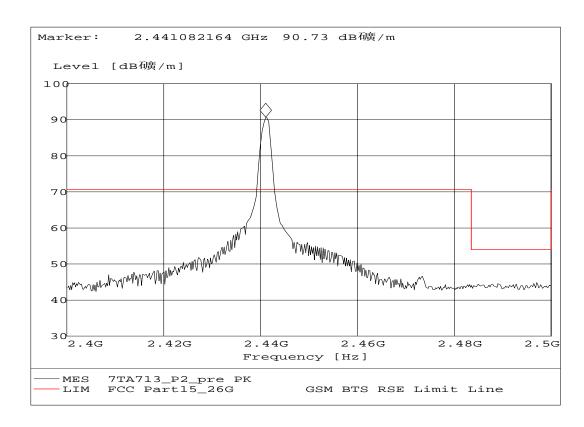


Fig. 14 Radiated emission: Channel 39, 2.4GHz ~ 2.5GHz

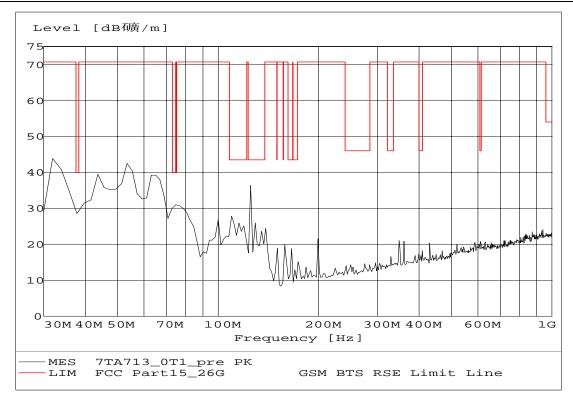


Fig. 15 Radiated emission: Channel 0, 30 MHz ~ 1 GHz

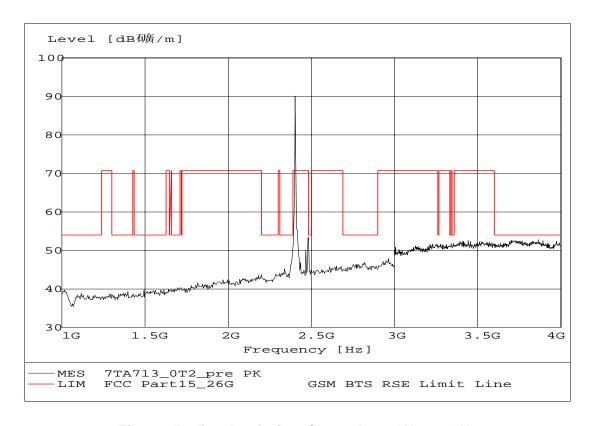


Fig. 16 Radiated emission: Channel 0, 1 GHz ~ 4 GHz

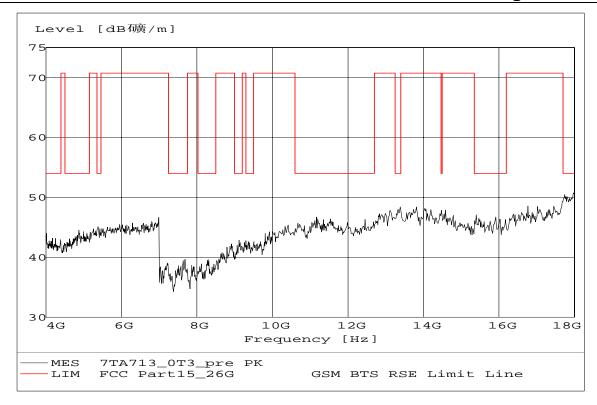


Fig. 17 Radiated emission: Channel 0, 4 GHz ~ 18 GHz

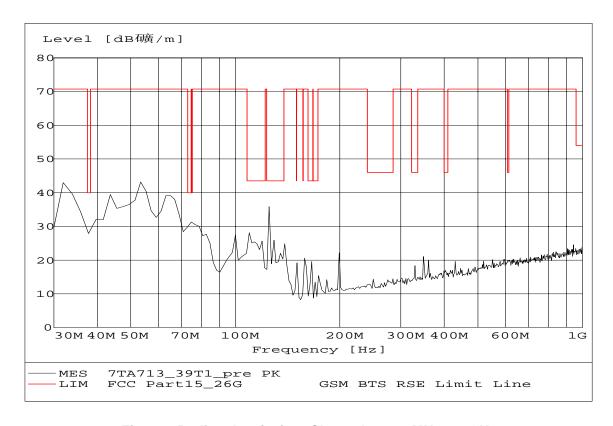


Fig. 18 Radiated emission: Channel 39, 30 MHz ~ 1 GHz

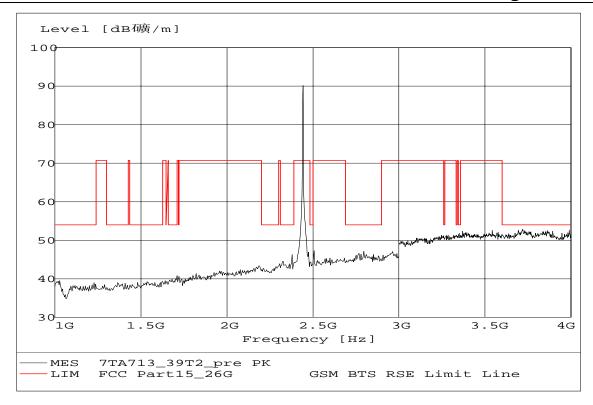


Fig. 19 Radiated emission: Channel 39, 1 GHz ~ 4 GHz

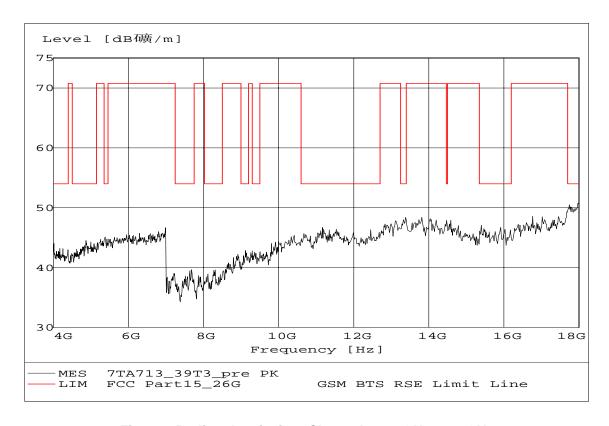


Fig. 20 Radiated emission: Channel 39, 4 GHz ~ 18 GHz

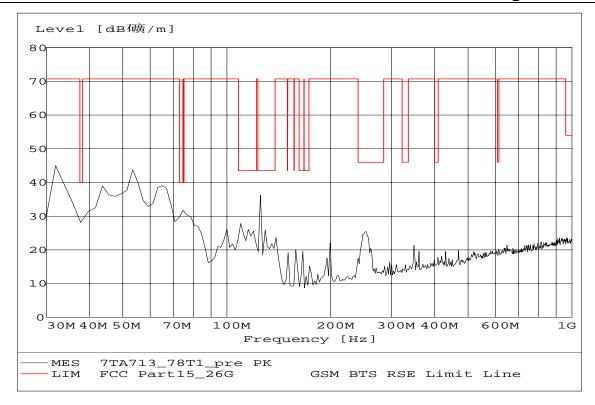


Fig. 21 Radiated emission: Channel 78, 30 MHz ~ 1 GHz

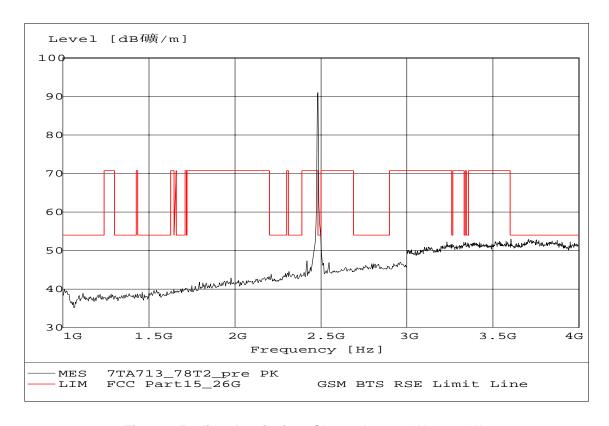


Fig. 22 Radiated emission: Channel 78, 1 GHz ~ 4 GHz

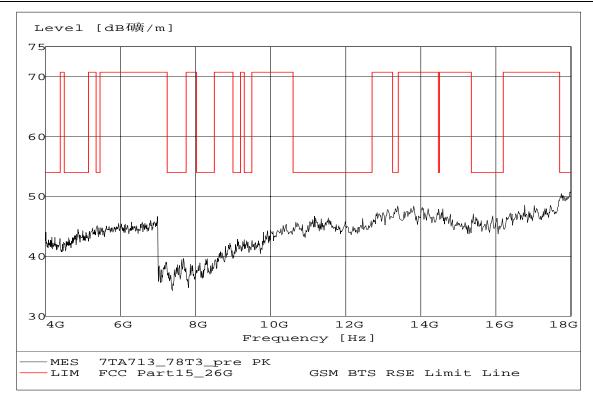


Fig. 23 Radiated emission: Channel 78, 4 GHz ~ 18 GHz

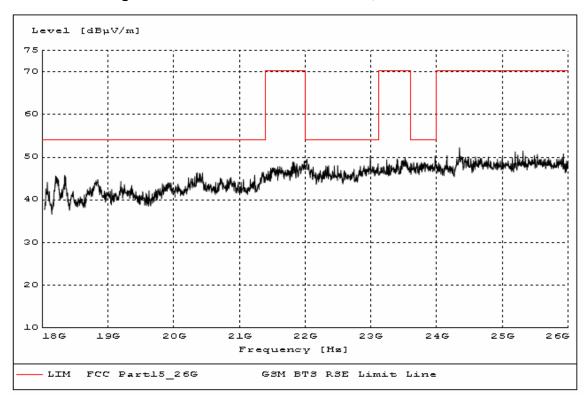


Fig. 24 Radiated emission: 18 GHz ~ 26 GHz

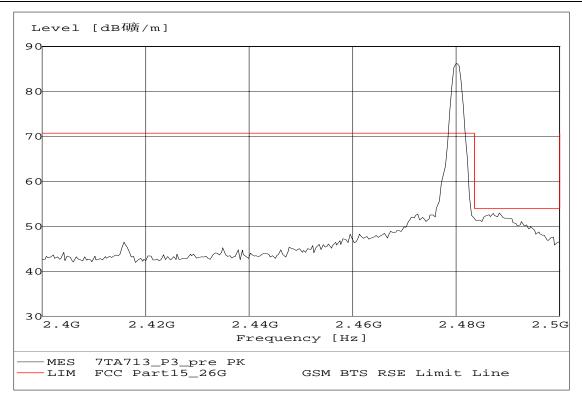


Fig. 25 Radiated emission: Channel 78, 2.4 GHz ~ 2.5 GHz

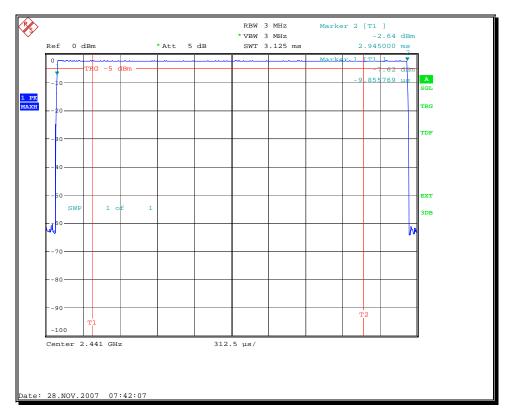


Fig. 26 Time of occupancy (Dwell Time): Channel 39

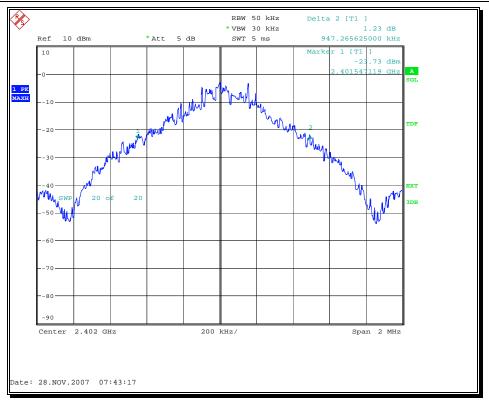


Fig. 27 20dB Bandwidth: Channel 0

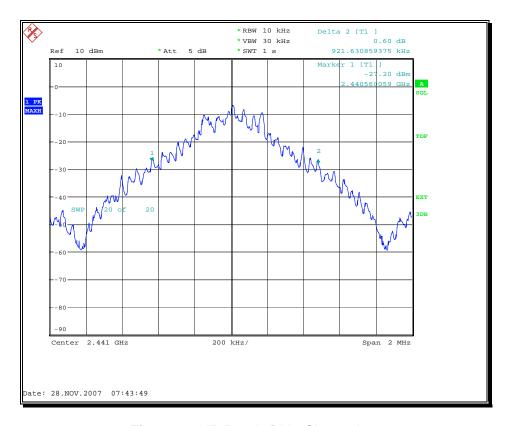


Fig. 28 20dB Bandwidth: Channel 39

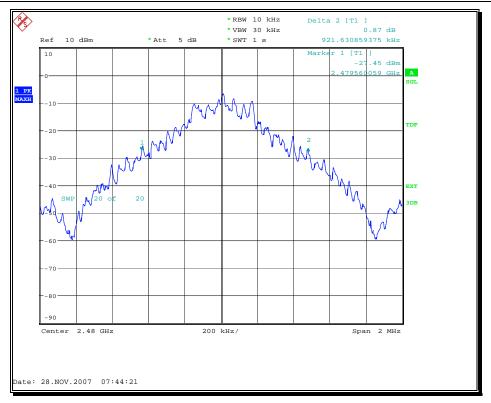


Fig. 29 20dB Bandwidth: Channel 78

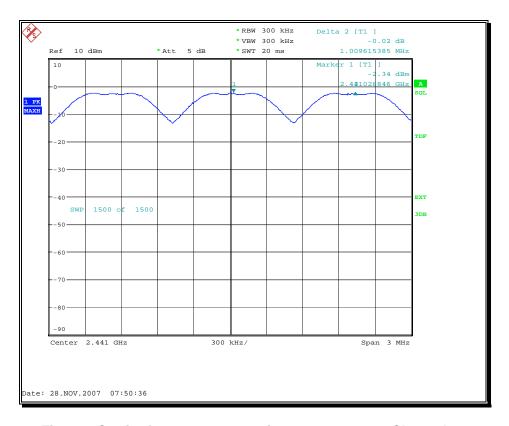


Fig. 30 Carrier frequency separation measurement: Channel 39

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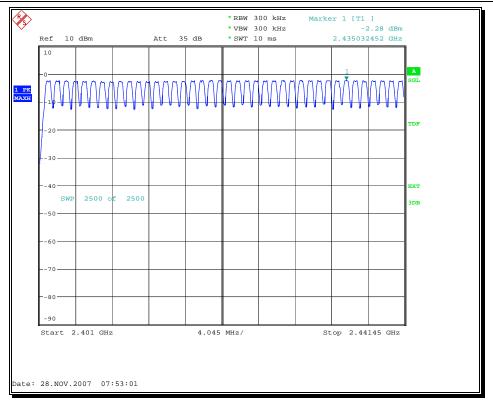


Fig. 31 Number of hopping frequencies: Channel 0 - 39

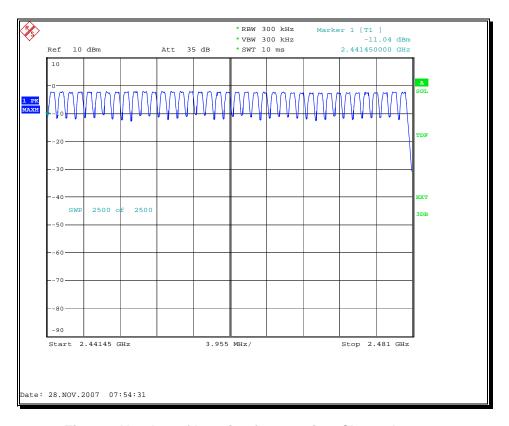


Fig. 32 Number of hopping frequencies: Channel 40 - 78

ANNEX D: TEST LAYOUT



Photo of Radiated Emission Test

*** END OF REPORT BODY ***