FCC Part 15C Compliance Test Report

Test Report no.:	Bej_FCC_0836_02.doc	**Date of Report:**	05-Sep-2008
Number of pages:	17	**Customer's Contact person:**	Xu shanshan
Testing laboratory:	TCC Nokia Beijing Laboratory Beijing Economic and Technological Development Area No.5 Donghuan Zhonglu Beijing PRC China 100176 Tel. +86 10 8711 8888 Fax. +86 10 8711 4550	**Customer:**	Nokia Corporation Beijing Economic and Technological Development Area No.5 Donghuan Zhonglu Beijing PRC China 100176 Tel. +86 10 8711 8888 Fax. +86 10 8711 4550
FCC listing no.: **IC recognition no.:**	975940 661AH-1		
Tested devices/ accessories:	**Phone RM-439 / Battery BL-4S, AC-charger AC-3, Headset HS-105.**		
FCC ID:	QTLRM-439	**IC:**	661AB-RM439
Supplement reports:	-		
Testing has been carried out in accordance with:	**CFR 47, FCC rules Part 15 Subpart C, ANSI C63.4 (2003), Public Notice DA 00-705, DTS procedures KDB 558074, IC standards RSS-GEN (Issue 2, June 2007) and RSS-210 (Issue 7, June 2007). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".**		
Documentation:	The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.		
Test Results:	**The EUT complies with the requirements in respect of all parameters subject to the test.** The test results relate only to devices specified in this document.		
Date and signature for the contents:	 Digitally signed by Jia Dongsheng DN: CN = Jia Dongsheng, C = CN, O = Nokia, OU = CertMT Date: 2008.09.05 16:05:01 +08'00'		

Jia Dongsheng, Manager

1. Summary for FCC Part 15C Compliance Test Report

Date of receipt	15-Aug-2008
Testing completed	02-Sep-2008
The customer's contact person	Xu shanshan
Test Plan referred to	T:\Projects\RM-439\TestPlan_RS\RS_Testplan_RM-439.xls
Notes	-
Document name	T:\Projects\RM-439\EMC\Results\FCC\Bej_FCC_0836_02.doc

1.1. EUT and Accessory Information

The EUT is a 2-band (GSM850/1900) mobile phone with GPRS, EGPRS and Bluetooth. Bluetooth is tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-439	001004/00332595/9	0212	-	fl07w41_08w31	51017
Battery	BL-4S	3820668132140100043;0670577	-	-	-	51003
AC-charger	AC-3	399791547205120083;0675370	-	-	-	50387
Headset	HS-105	1257	0.2	1.1	-	50986

1.2. Summary of Test Results

Bluetooth:

Section in CFR 47	Section in *RSS-GEN* or RSS-210	Name of the test	Result
15.247(b)(1)	A8.4 (2)	Conducted peak output power	NP
15.247(d)	A8.5	Band edge compliance of RF emissions	PASSED
15.247(d)	A8.5	Spurious RF conducted emissions	NP
15.247(d), 15.209	A8.5	Spurious radiated emissions	PASSED
15.207	*7.2.2*	AC powerline conducted emissions	PASSED
15.247(a)(1)	A8.1 (1)	20 dB bandwidth	NP
15.247(a)(1)	A8.1 (2)	Carrier frequency separation	NP
15.247(a)(1)(iii)	A8.1 (4)	Number of hopping frequencies	NP
15.247(a)(1)(iii)	A8.1 (4)	Time of occupancy	NP

PASSED	The EUT complies with the essential requirements in the standard.
FAILED	The EUT does not comply with the essential requirements in the standard.
NP	The test was not performed by the TCC Nokia Beijing Laboratory.

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CONTENTS

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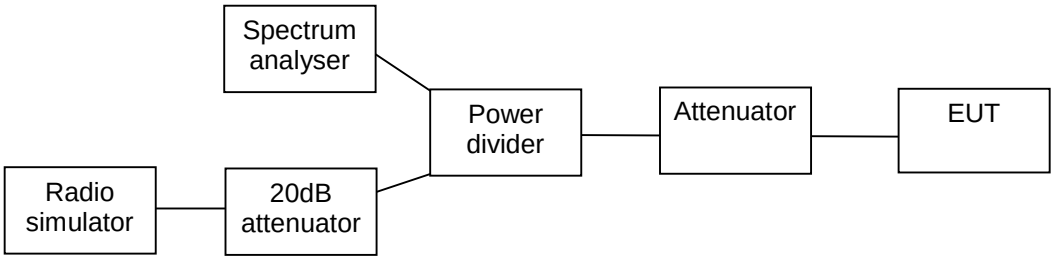
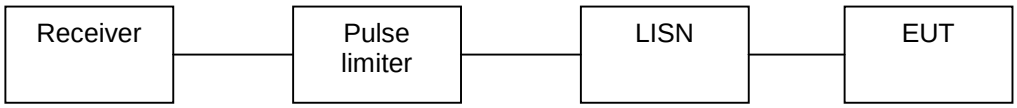
2. Test setups

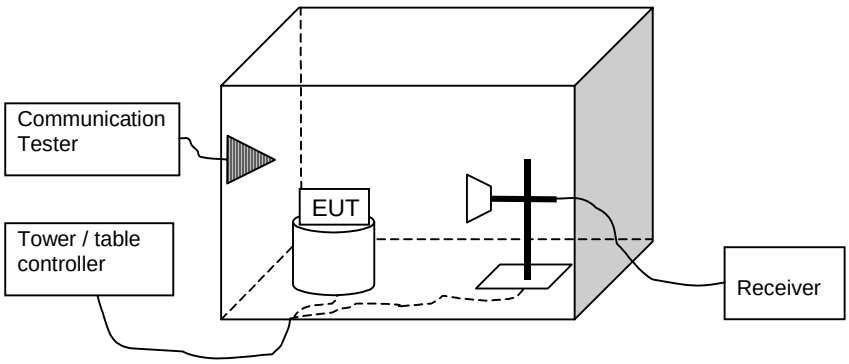
2.1. Conducted RF test setup



2.2. AC powerline conducted emissions test setup



2.3. Radiated test setup



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3. Band edge compliance of RF emissions

(FCC §15.247(d), RSS-210 A8.5)

EUT with DUT number	RM-439 DUT51017
Accessories with DUT numbers	BL-4S DUT51003; AC-3 DUT50387; HS-105 DUT50986
Operation Voltage [V] / [Hz]	110 / 60
Result	PASSED
Remarks	Phone was tested with slide open.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 58 / 100.3
Date of measurements	01-Sep-2009
Measured by	Zou Ming

3.1. Test method and limit

The measurement is made according to Public notice DA 00-705 and IC standard RSS-210.

Limits for band edge compliance of RF emissions measurements (3 m measurement distance)

Frequency range [MHz]	Limit Average [dBµV/m]	Limit Peak [dBµV/m]
Below 2390 and above 2483.5	≤ 54	≤ 74

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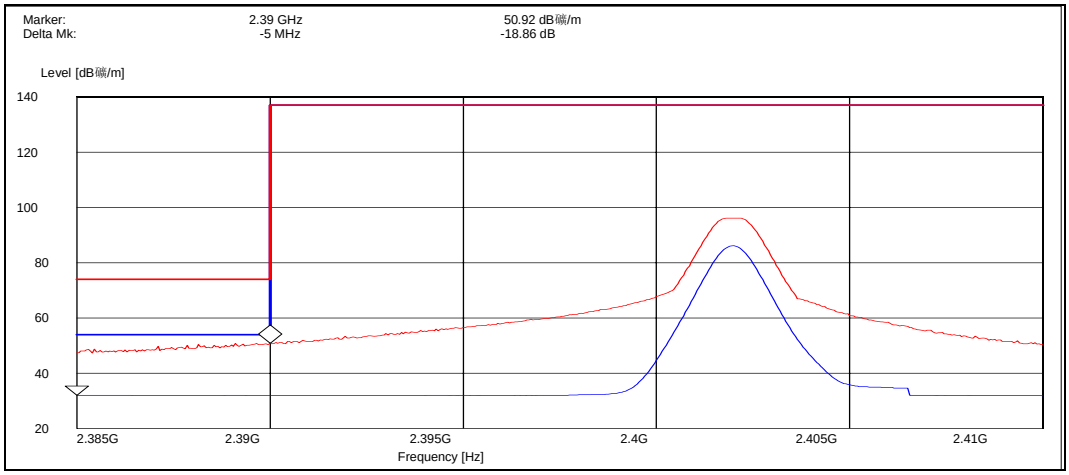
3.2. Bluetooth Test results

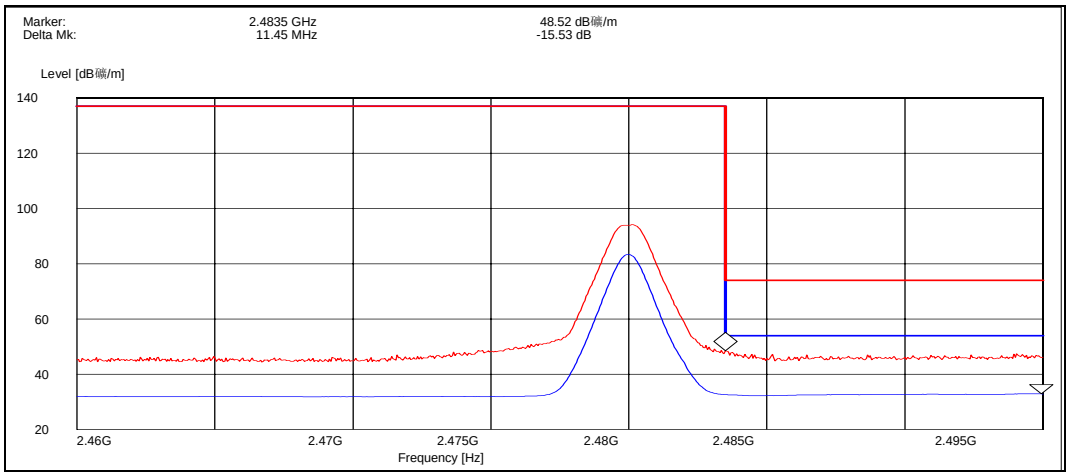
3.2.1 GFSK modulation, PRBS packet type

Channel 0 / 2402 MHz



Detector (RBW: 1 MHz)	E [dBµV/m]	Result
Peak	50.90	*PASSED*
Average	32.10	*PASSED*

Channel 78 / 2480 MHz



Detector (RBW: 1 MHz)	E [dBµV/m]	Result
Peak	48.50	*PASSED*
Average	33.00	*PASSED*

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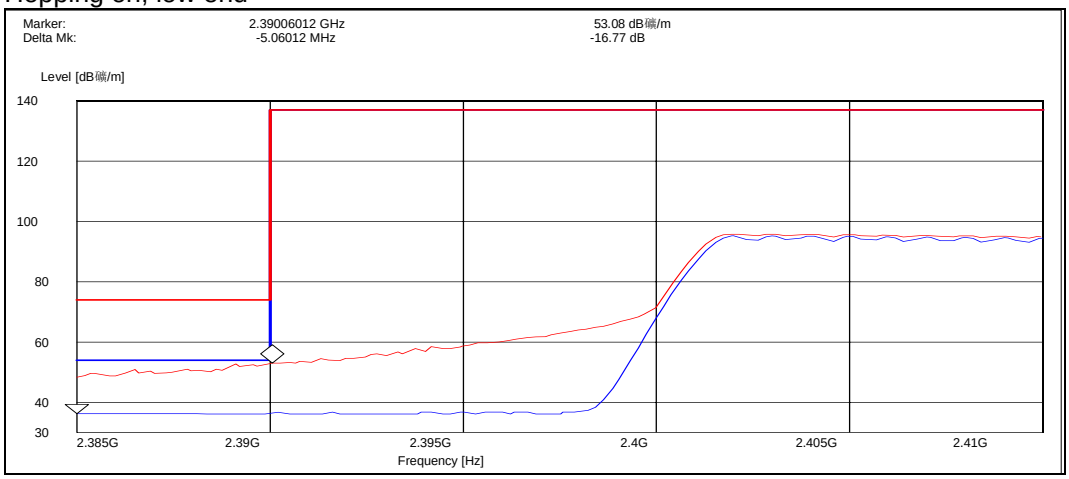
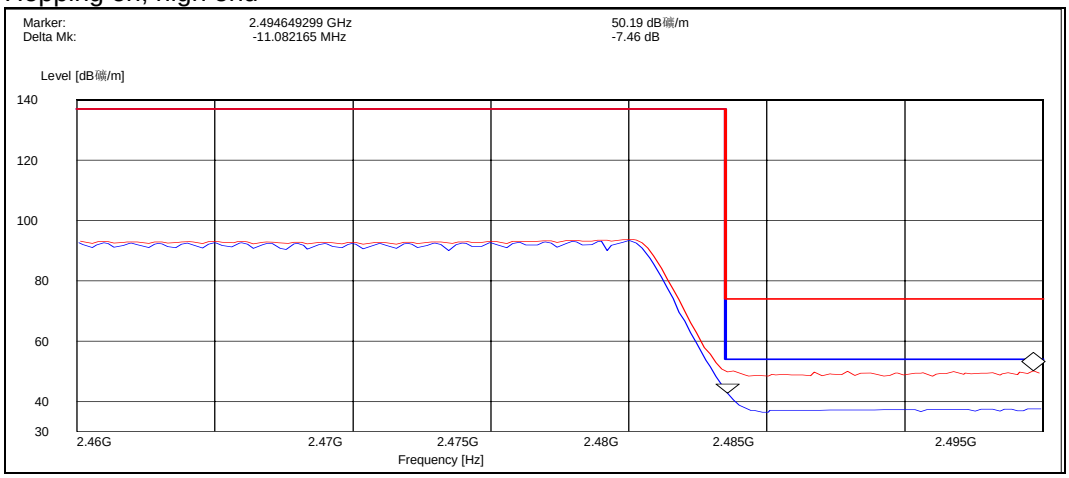
Hopping on, low end



Detector (RBW: 1 MHz)	E [dBµV/m]	Result
Peak	53.10	*PASSED*
Average	36.30	*PASSED*

Hopping on, high end



Detector (RBW: 1 MHz)	E [dBµV/m]	Result
Peak	50.20	*PASSED*
Average	42.70	*PASSED*

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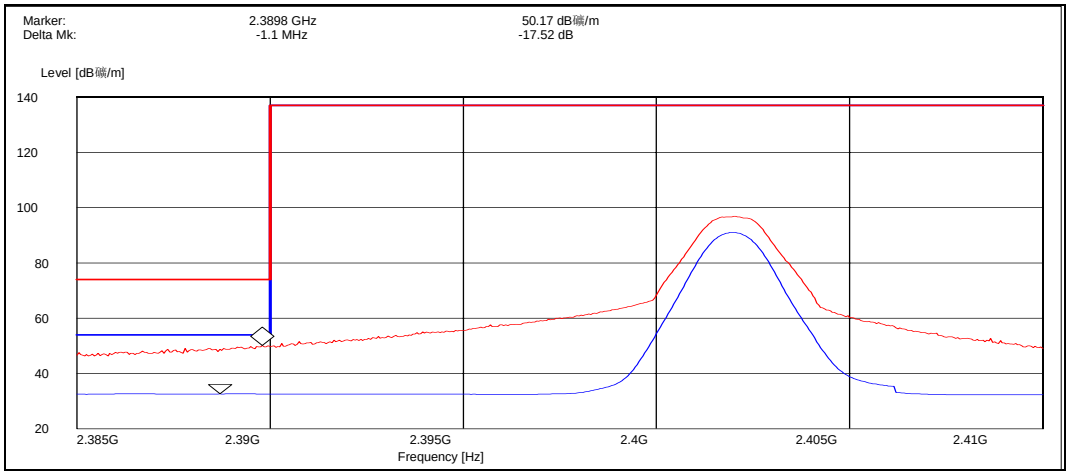
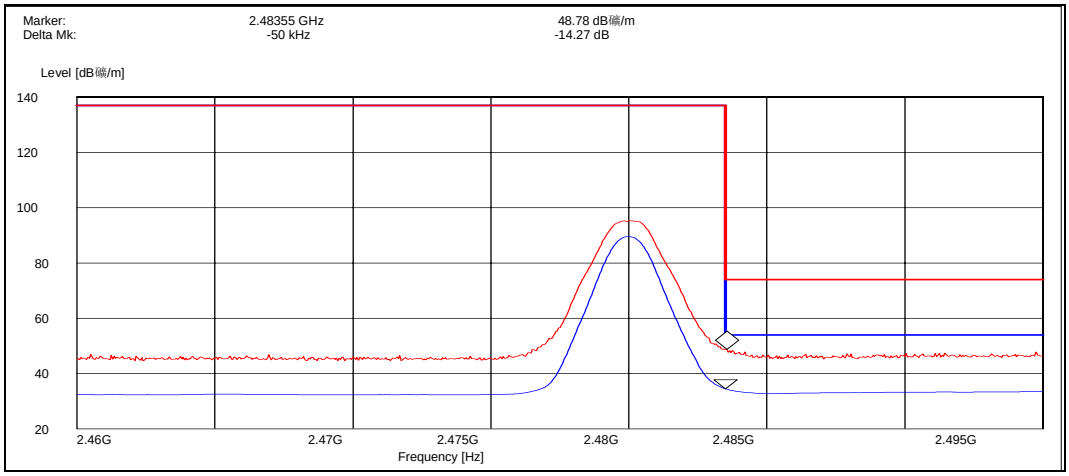
3.2.2 8DPSK modulation, PRBS packet type

Channel 0 / 2402 MHz



Detector (RBW: 1 MHz)	*E [dBµV/m]*	*Result*
Peak	*50.20*	*PASSED*
Average	*32.70*	*PASSED*

Channel 78 / 2480 MHz



Detector (RBW: 1 MHz)	*E [dBµV/m]*	*Result*
Peak	*48.80*	*PASSED*
Average	*34.50*	*PASSED*

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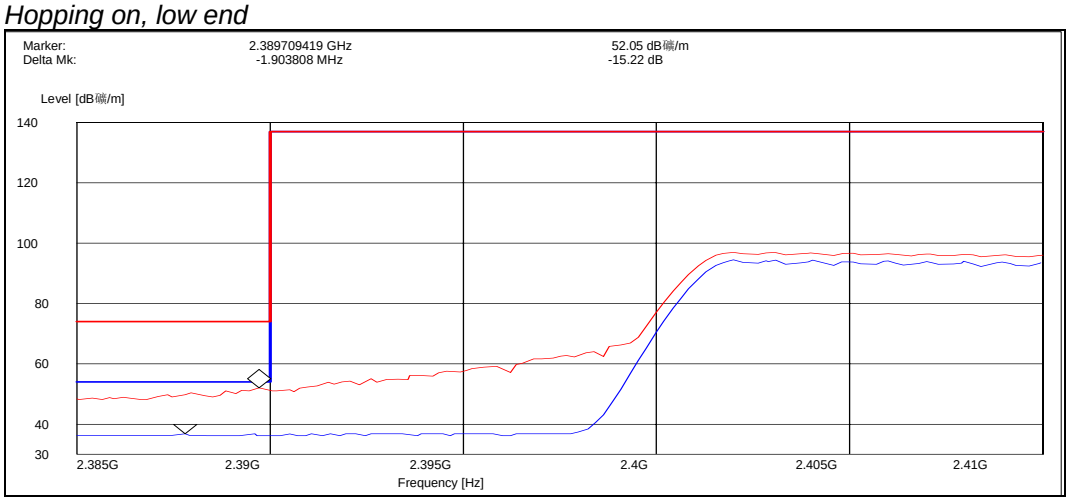
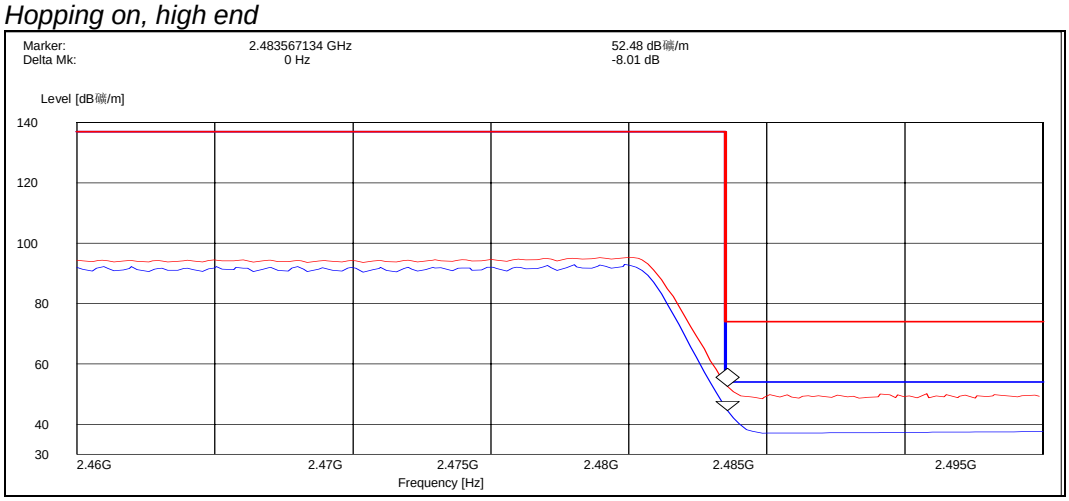
Hopping on, low end



Detector (RBW: 1 MHz)	E [dBµV/m]	Result
Peak	52.10	PASSED
Average	36.80	PASSED

Hopping on, high end



Detector (RBW: 1 MHz)	E [dBµV/m]	Result
Peak	52.50	PASSED
Average	44.50	PASSED

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4. Spurious radiated emissions

(FCC §15.247(d), §15.209, RSS-210 A8.5)

EUT with DUT number	RM-439 DUT51017
Accessories with DUT numbers	BL-4S DUT51003; AC-3 DUT50387; HS-105 DUT50986
Operation Voltage [V] / [Hz]	110 / 60
Result	PASSED
Remarks	Phone was tested with slide open.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 57 / 100.3
Date of measurements	01-Sep-2008
Measured by	Jia Dongsheng

4.1. Test method and limit

The measurement is made according to Public notice DA 00-705 and IC standard RSS-210 as follows:

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with absorbers on the floor and measuring antenna at fixed height using 2-axis EUT position system.

The Final Measurement is performed in the Semi-Anechoic Chamber with conducting metal floor, if the Preliminary Measurement results are closer than 20 dB to the permissible value.

The EUT is placed at nonconductive plate at the turntable center.

For each suspected frequency, the turntable is rotated 360 degrees and antenna is scanned from 1 to 4 m. This is repeated for both horizontal and vertical receive antenna polarizations.

The emissions less than 20 dB below the permissible value are reported.

The measurement results are obtained as described below:

$$E\ [\mu V/m] = U_{RX} + A_{TOT}$$

Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable loss, antenna factor and preamplifier gain ($A_{TOT} = L_{CABLES} + AF - G_{PREAMP}$).

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Limits for spurious radiated emissions measurements (3 m measurement distance)

Frequency range [MHz[	Limit [µV/m]	Limit [dBµV/m]	Detector
30 – 88	100	40	Quasi peak
88 – 216	150	43.5	Quasi peak
216 – 960	200	46	Quasi peak
960 – 1000	500	54	Quasi peak
Above 1000	500	54	Average
Above 1000	5000	74	Peak

4.2. Bluetooth Test results

4.2.1 GFSK modulation, PRBS packet type

Channel 0 / 2402 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
4804.000000	40.50	105.93	40.60	-0.1	HORIZONTAL	PASSED
7206.000000	44.10	160.32	39.80	4.3	VERTICAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
4804.000000	27.90	24.83	28.00	-0.1	HORIZONTAL	PASSED
7206.000000	31.60	38.02	27.30	4.3	VERTICAL	PASSED

Channel 40 / 2442 MHz

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
33.145291	14.10	5.07	36.60	-22.5	VERTICAL	PASSED
37.776353	13.60	4.79	39.30	-25.7	VERTICAL	PASSED

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
2826.979960	50.60	338.84	47.00	3.6	HORIZONTAL	PASSED
7346.195391	43.80	154.88	39.10	4.7	VERTICAL	PASSED
7400.297595	44.50	167.88	40.00	4.5	VERTICAL	PASSED
17500.993988	53.40	467.74	36.30	17.1	VERTICAL	PASSED
17953.399800	56.70	683.91	36.60	20.1	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
2830.479960	37.80	77.62	34.20	3.6	HORIZONTAL	PASSED
7347.695391	31.00	35.48	26.30	4.7	VERTICAL	PASSED
7396.297595	31.30	36.73	26.80	4.5	VERTICAL	PASSED
17493.993988	40.20	102.33	23.10	17.1	VERTICAL	PASSED
17949.899800	42.90	139.64	22.80	20.1	HORIZONTAL	PASSED

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Channel 78 / 2480 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
4960.000000	41.60	120.23	41.40	0.2	HORIZONTAL	PASSED
7440.000000	44.00	158.49	39.70	4.3	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
4960.000000	28.30	26.00	28.10	0.2	HORIZONTAL	PASSED
7440.000000	31.30	36.73	27.00	4.3	VERTICAL	PASSED

4.2.2 8DPSK modulation, PRBS packet type

Channel 0 / 2402 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
4804.000000	41.70	121.62	41.80	-0.1	VERTICAL	PASSED
7206.000000	45.30	184.08	41.00	4.3	VERTICAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
4804.000000	28.00	25.12	28.10	-0.1	VERTICAL	PASSED
7206.000000	32.70	43.15	28.40	4.3	VERTICAL	PASSED

Channel 40 / 2442 MHz

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
37.835872	13.40	4.68	39.10	-25.7	VERTICAL	PASSED

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
2837.552104	50.60	338.84	47.20	3.4	HORIZONTAL	PASSED
7326.151303	46.30	206.54	41.70	4.6	VERTICAL	PASSED
7343.183367	43.80	154.88	39.20	4.6	VERTICAL	PASSED
7393.283567	44.40	165.96	39.80	4.6	VERTICAL	PASSED
17492.989980	53.00	446.68	35.90	17.1	VERTICAL	PASSED
17951.897796	56.40	660.69	36.30	20.1	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
2838.552104	37.70	76.74	34.20	3.5	HORIZONTAL	PASSED
7325.151303	31.70	38.46	27.10	4.6	VERTICAL	PASSED
7342.683367	31.00	35.48	26.40	4.6	VERTICAL	PASSED
7389.783567	31.20	36.31	26.60	4.6	VERTICAL	PASSED

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17495.489980	40.20	102.33	23.10	17.1	VERTICAL	PASSED
17944.897796	42.90	139.64	22.80	20.1	HORIZONTAL	PASSED

Channel 78 / 2480 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
4960.000000	40.90	110.92	40.70	0.2	HORIZONTAL	PASSED
7440.000000	44.10	160.32	39.80	4.3	VERTICAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
4960.000000	28.50	26.61	28.30	0.2	VERTICAL	PASSED
7440.000000	31.70	38.46	27.40	4.3	VERTICAL	PASSED

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5. AC powerline conducted emissions

(FCC §15.207, RSS-GEN 7.2.2)

EUT with DUT number	RM-439 DUT51017
Accessories with DUT numbers	BL-4S DUT51003; AC-3 DUT50387; HS-105 DUT50986
Operation Voltage [V] / [Hz]	110 / 60
Result	PASSED
Remarks	Phone was tested with slide open.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	23 / 62 / 100.2
Date of measurements	03-Sep-2008
Measured by	Zou Ming

5.1. Test method and limit

The measurement is made according to Public notice DA 00-705 and IC standard RSS-GEN as follows:

The EUT is placed on a wooden table 80 cm above the reference groundplane.

The EUT is connected via LISN to a test power supply.

The measurement results are obtained as described below:

$$U\ [dB\mu V] = U_{RX} + A_{TOT}$$

Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable and pulse limiter attenuations.

CISPR 22 Class B limits

Frequency range [MHz]	Quasi peak limit [dBµV]	Average limit [dBµV]
0.15 - 0.5	66 - 56	56 - 46
0.5 - 5	56	46
5 - 30	60	50

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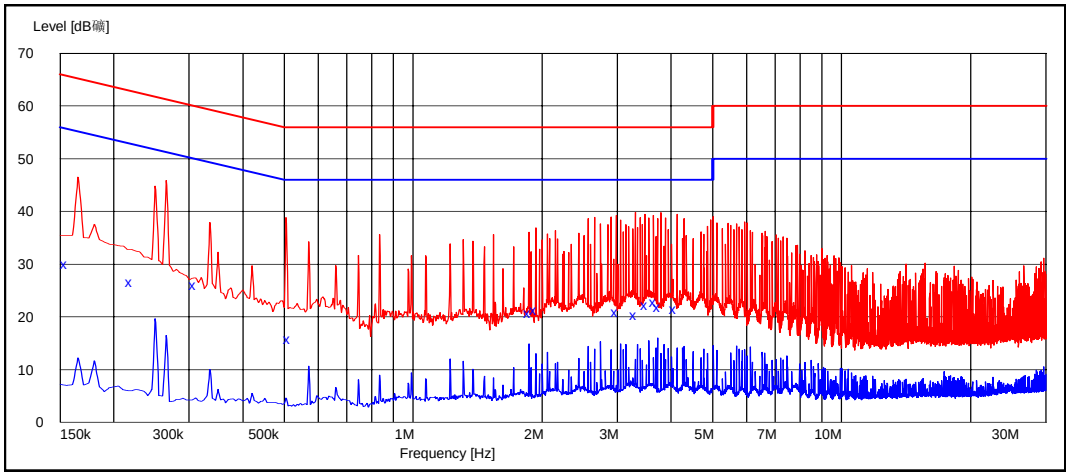
5.2. Bluetooth Test results

5.2.1 GFSK modulation, PRBS packet type

Channel 40 / 2442 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBµV]	Line	Result
0.155000	30.10	N	PASSED
0.220000	26.60	N	PASSED
0.310000	26.00	N	PASSED
0.515000	15.80	N	PASSED
1.875000	20.80	N	PASSED
1.935000	21.30	N	PASSED
3.000000	20.90	N	PASSED
3.310000	20.40	L1	PASSED
3.515000	22.20	N	PASSED
3.675000	22.90	N	PASSED
3.760000	21.90	L1	PASSED
4.095000	21.50	N	PASSED

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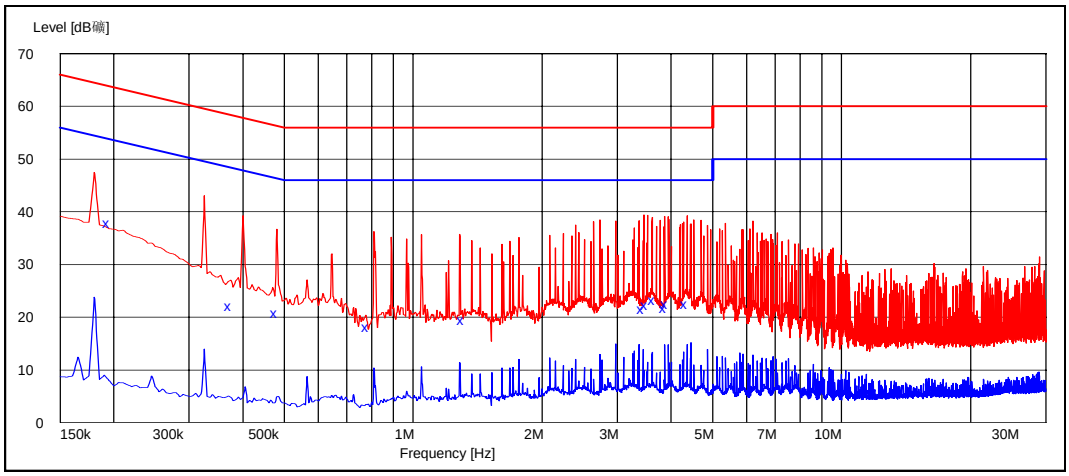
5.2.2 8DPSK modulation, PRBS packet type

Channel 40 / 2442 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBµV]	Line	Result
0.195000	37.80	L1	PASSED
0.375000	22.20	N	PASSED
0.480000	20.70	N	PASSED
0.785000	18.20	N	PASSED
1.310000	19.50	N	PASSED
3.445000	21.50	N	PASSED
3.520000	22.30	N	PASSED
3.660000	23.20	N	PASSED
3.885000	21.80	N	PASSED
3.920000	22.60	N	PASSED
4.350000	22.60	N	PASSED

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6. Test Equipment

6.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
BJPCPT0039	LISN	ESH3-Z5	BJPCPT0039	15C, 15B
BJPCPT0040	TEST RECEIVER	ESCS30	BJPCPT0040	15C, 15B
BJPCPT0069	LISN	ESH3-Z5	BJPCPT0069	15C, 15B
BJPCPT0079	LISN	ESH3-Z5	BJPCPT0079	15C, 15B
BJPCPT0191	PULSE LIMITER	ESH3-Z2	BJPCPT0191	15C, 15B

6.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
BJPCPT0129	Relay Unit	TS-RSP	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCPT0130	Relay Unit	TS-RSP	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCPT0080	Device Controller	EMCO2090	ETS-EMCO	22/24/27, 15C, 15B
BJPCTC0048	RF Preamplifier 10MHz-3GHz (Metal chassis)	AFS4-00100300-10-10P-4	MITEQ	22/24/27, 15C, 15B
BJPCTC0007	Ultra Broadband Antenna 30MHz-3000MHz	HL562	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCPT0162	Horn Antenna 1GHz-18GHz	HF906	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCTC0029	Horn Antenna 1GHz-18GHz	HF906	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCTC0049	RF preamplifier 3GHz-18GHz	BLMA-0118-1A-BT	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCTC0072	3m anechoic chamber	-	ETS-Lindgren	22/24/27, 15C, 15B
BJPCTC0075	Turntable	Model 2088	ETS-EMCO	22/24/27, 15C, 15B
BJPCPT0072	EMI Test Receiver 20Hz-26.5GHz	ESIB26	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCPT0150	High Pass filter	WHKS 1200-10SS	Wainwright instruments	22/24/27, 15C, 15B
BJPCTC0034	Notch Filter	WRCT800/880-0.2/40-5SSK	Wainwright instruments	22, 15B
BJPCPT0151	Notch Filter	WRCD1800/2000-0.2/40-5SSK	Wainwright instruments	24, 15B
BJPCTC0017	Radio Communication Tester	CMU200	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCPT0154	Filter	WRCT2402/2480-2400/2483.5-30-20SS	Wainwright instruments	15C, 15B
BJPCTC0058	Bluetooth tester	CBT	Rohde&Schwarz	15C, 15B
BJPCTC0064	WCDMA II FILTER	WRCG1877/1883-1870/1890-40/6SS	Wainwright instruments	24, 15B
BJPCTC0065	WCDMA V FILTER	WRCG832/838-825/845-40/5SS	Wainwright instruments	22, 15B

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