FCC Part 22/24 Compliance Test Report

Test Report no.:	FCC22&24_RM-923_04.docx	**Date of Report:**	07-Nov-2012
Number of pages:	17	**Customer's Contact person:**	Hu Helen
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-923 / Battery BP-3L / AC-charger AC-20E / Headset WH-902 /Dummy battery**		
FCC ID:	QTLRM-923	**IC:**	-
Supplement reports:	-		
Testing has been carried out in accordance with:	**CFR 47, FCC rules Parts 22/24 , TIA-603-C-2004 and IC standards, RSS-GEN (Issue 3, December 2010), RSS-132 (Issue 2, September 2005), RSS-133 (Issue 5, February 2009). 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:	Sherina Gao Digitally signed by Sherina Gao DN: cn=Sherina Gao, o=PSCL, ou=NOKIA, email=sherina.gao@nokia.com, c=CN Date: 2012.11.07 13:30:33 +08'00'		

Gao Sherina, Engineer, EMC

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1. Summary for FCC Part 22/24 Compliance Test Report

Date of receipt	16-Oct-2012
Testing completed	02-Nov-2012
The customer's contact person	Hu Helen
Test Plan referred to	T:\Projects\RM-923\TestPlan\RS_testplan_RM-923.xlsm
Notes	-
Document name	FCC22&24_RM-923_04.docx

1.1. EUT and Accessory Information

The EUT is a mobile phone with following features:
GSM/WCDMA/WLAN/Bluetooth
The EUT is tested with maximum rated TX power.

Devices under tests

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-923	004402/47/159004/6	1001	-	1102.0000.8779.12418	52875
Battery	BP-3L	495540217205010816O;0670635	-	-	-	52821
AC-charger	AC-20E	486867224412050577 3;0675628	-	-	-	53013
Headset	WH-902	126582R	-	-	-	53015
Phone	RM-923	004402471590079	1001	-	1102.0000.8779.12418	53018
Battery	BP-3L	495540234201033253 7;0670635	-	-	-	53019
AC-Charger	AC-20E	486867224412050614 9;0675628	-	-	-	53020
Headset	WH-902	0649721265B2R	-	-	-	53021
Dummy battery	-	-	-	-	-	53025

1.2. Summary of Test Results

GSM850:

Section in CFR 47	Section in RSS-GEN or RSS-132	Name of the test	Result
§2.1046(a), 22.913(a)	4.4	Conducted RF output power	NP
§22.913(a)	4.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	PASSED
§22.917(a)	4.5	Band edge compliance	NP
§22.917(a), §2.1051	4.5	Spurious emissions at antenna terminals	NP
§22.917(a), §2.1053	4.5	Spurious radiated emissions	PASSED
§2.1055(a)	4.3	Frequency stability, temperature variation	PASSED
§2.1055(d)	4.3	Frequency stability, voltage variation	PASSED

WCDMA 850 (Band V):

Section in CFR 47	Section in RSS-GEN or RSS-132	Name of the test	Result
§2.1046(a), 22.913(a)	4.4	Conducted RF output power	NP
§22.913(a)	4.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	PASSED
§22.917(a)	4.5	Band edge compliance	NP
§22.917(a), §2.1051	4.5	Spurious emissions at antenna terminals	NP
§22.917(a), §2.1053	4.5	Spurious radiated emissions	PASSED
§2.1055(a)	4.3	Frequency stability, temperature variation	NP
§2.1055(d)	4.3	Frequency stability, voltage variation	NP

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GSM1900:

Section in CFR 47	Section in RSS-GEN or RSS-133	Name of the test	Result
§2.1046(a)	6.4	Conducted RF output power	NP
§24.232(b)	6.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	PASSED
§24.238(a)	6.5	Band edge compliance	NP
§24.238(a), §2.1051	6.5	Spurious emissions at antenna terminals	NP
§24.238(a), §2.1053	6.5	Spurious radiated emissions	PASSED
§2.1055(a)	6.3	Frequency stability, temperature variation	PASSED
§2.1055(d)	6.3	Frequency stability, voltage variation	PASSED

WCDMA 1900 (Band II):

Section in CFR 47	Section in RSS-GEN or RSS-133	Name of the test	Result
§2.1046(a)	6.4	Conducted RF output power	NP
§24.232(b)	6.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	PASSED
§24.238(a)	6.5	Band edge compliance	NP
§24.238(a), §2.1051	6.5	Spurious emissions at antenna terminals	NP
§24.238(a), §2.1053	6.5	Spurious radiated emissions	PASSED
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	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 Laboratory.

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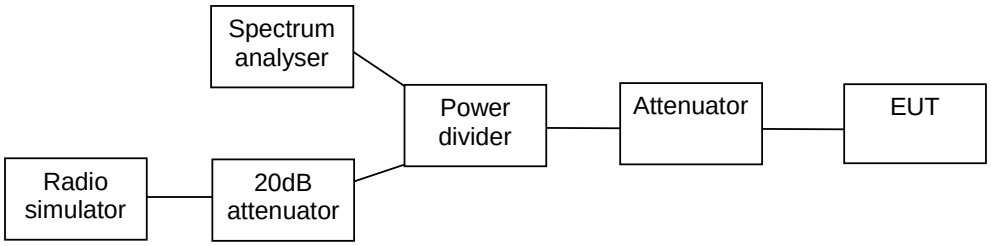
2. 99% occupied bandwidth

(FCC §2.1049(h), RSS-GEN 4.6.1)

EUT with DUT number	RM-923, DUT 53018
Accessories with DUT numbers	BP-3L, DUT 53019 ; AC-20E, DUT 53020 ; WH-902, DUT 53021
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	23/39/101.5 - 23/27/100.7
Date of measurements	19-Oct-2012 to 02-Nov-2012
Measured by	Gao Sherina

2.1. Test Setup



2.2. Test method and limit

The measurement is made according to FCC rules parts 22, 24 and IC standard RSS-GEN.

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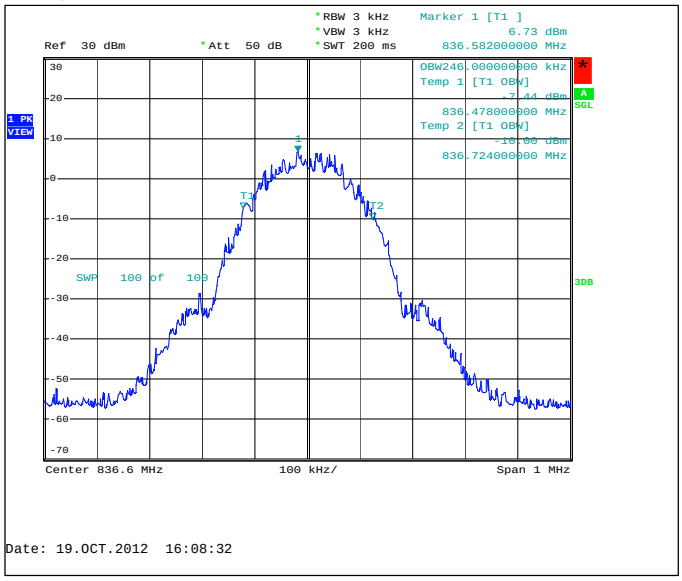
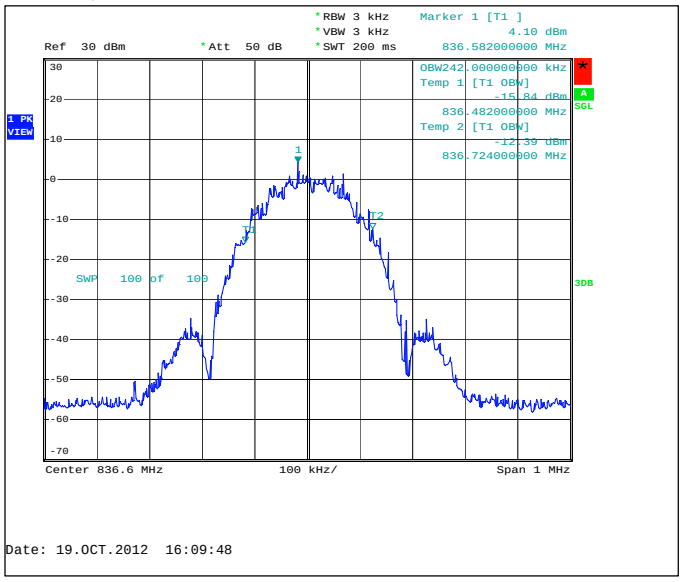
2.3. GSM 850 Test results

Operation mode (TX on)	99% Occupied bandwidth [kHz]
GSM	246
EGPRS	242

GSM, Channel 190 / 836.6 MHz



EGPRS, Channel 190 / 836.6 MHz



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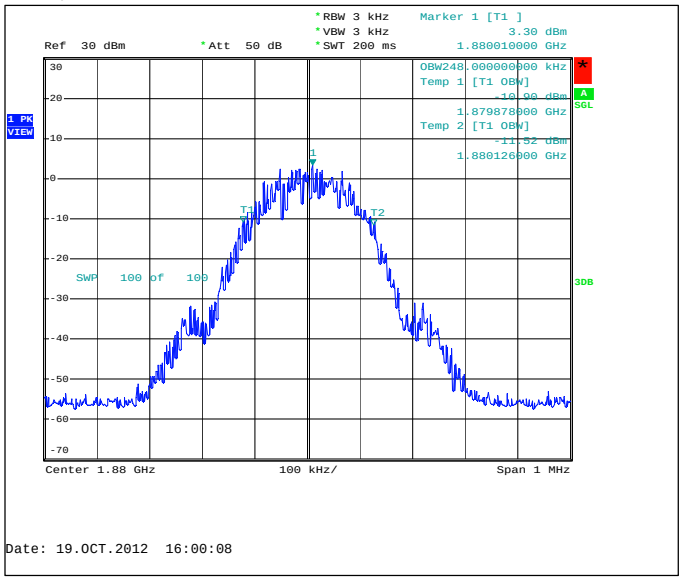
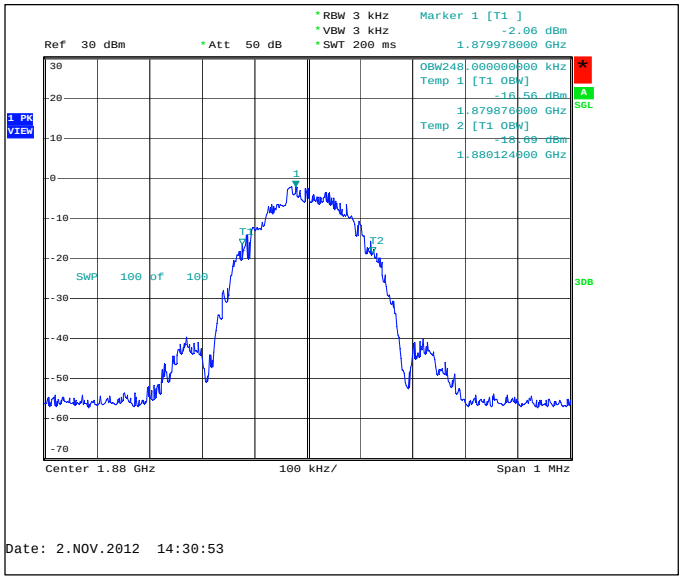
2.4. GSM 1900 Test results

Operation mode (TX on)	99% Occupied bandwidth [kHz]
GSM	248
EGPRS	248

GSM, Channel 661 / 1880.0 MHz



EGPRS, Channel 661 / 1880.0 MHz



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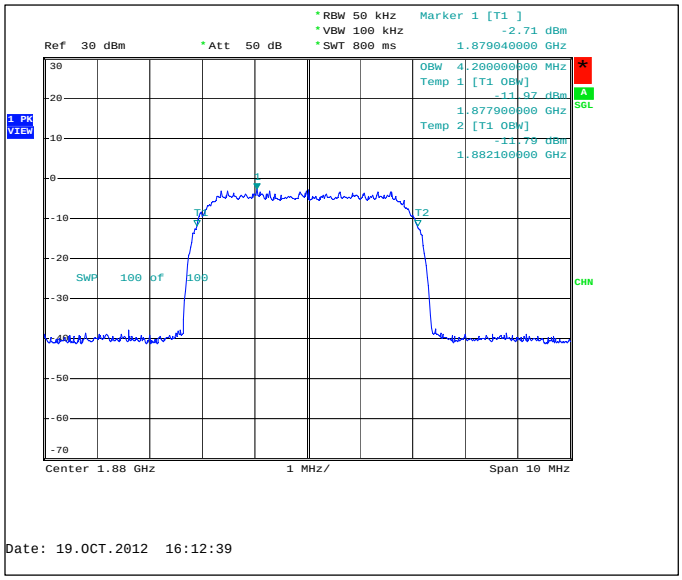
2.5. WCDMA 1900 Test results

Operation mode (TX on)	99% Occupied bandwidth [kHz]
FDD	4200

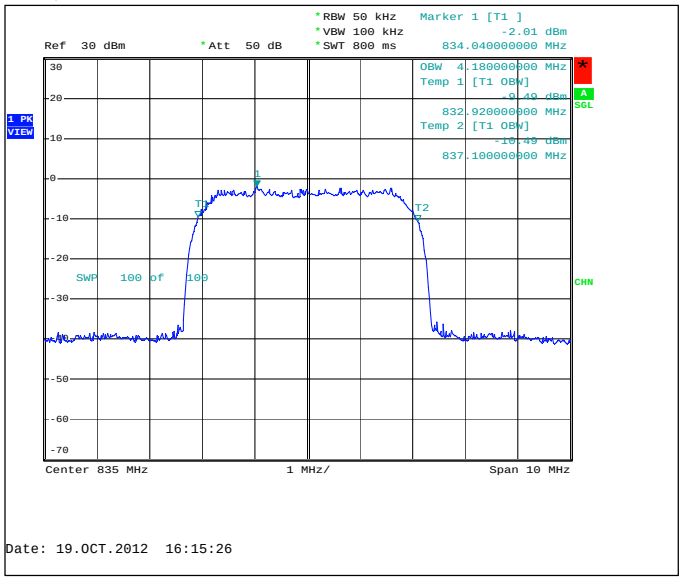
FDD, Channel 9400 / 1880.0 MHz



2.6. WCDMA 850 Test results

Operation mode (TX on)	99% Occupied bandwidth [kHz]
FDD	4180

FDD, Channel 4175 / 835.0 MHz



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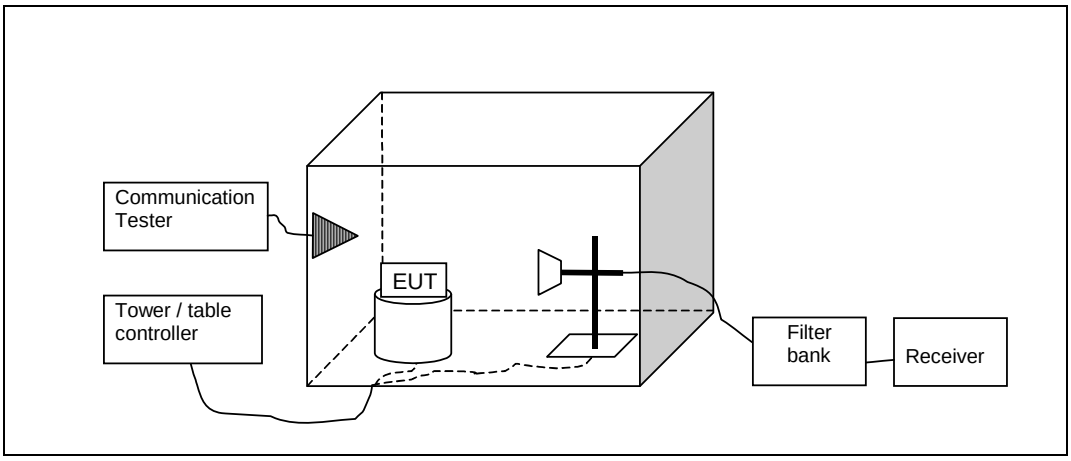
3. Spurious radiated emissions

(FCC §22.917(a), §2.1053, §24.238(a), §2.1053, RSS-132 4.5, RSS-133 6.5)

EUT with DUT number	RM-923, DUT 53011
Accessories with DUT numbers	BP-3L, DUT 52821 ; AC--20E, DUT 53013 ; WH-902, DUT 53015
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22/37/100.1
Date of measurements	22-Oct-2012
Measured by	Gao Sherina

3.1.1 Test setup



3.2. Test method and limit

The measurement is made according to TIA-603-C-2004 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.

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The substitution method is used.

The measurement results are obtained as described below:

$P\ [dBm] = P_{SUBST\ TX} + G_{SUBST\ TX\ ANT} - L_{SUBST\ CABLE}$

Where $P_{SUBST\ TX}$ is signal generator level, which produces the same receiver reading P_{MEAS} in dBm as EUT. $G_{SUBST\ TX\ ANT}$ is substitution antenna gain and $L_{SUBST\ CABLE}$ is the loss of the cable between the signal generator and the substitution antenna.

Limits for spurious radiated emissions measurements

Operation band	Frequency range [MHz]	Limit [dBm]
GSM850 / WCDMA850	30 - 8500	-13
GSM1900 / WCDMA1900	30 - 18000	-13

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3.3. GSM850 TX test results

GSM mode, channel 190 / 836.6MHz

Frequency [MHz]	P [dBm]	P [µW]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarization	Results
849.227	-71.32	7E-05	-70.15	-1.17	VERTICAL	PASSED
1673.146	-41.66	0.06825	-46.51	4.85	VERTICAL	PASSED
1673.267	-40.95	0.08043	-45.8	4.85	VERTICAL	PASSED
2509.82	-45.11	0.03086	-57.11	12	HORIZONTAL	PASSED
3303.407	-55.71	0.00268	-64.63	8.92	HORIZONTAL	PASSED
3315.752	-54.5	0.00354	-63.34	8.84	HORIZONTAL	PASSED

*Substitution method could not be utilized as no emissions above noise floor were found during measurements.

3.4. GSM850-E1 TX test results

EGPRS mode, Channel 190 / 836.6MHz

Frequency [MHz]	P [dBm]	P [µW]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarization	Results
848.7	-65.13	0.00031	-63.93	-1.2	VERTICAL	PASSED
1673.166	-44.41	0.03627	-49.26	4.85	VERTICAL	PASSED
1673.206	-45.3	0.02954	-50.15	4.85	VERTICAL	PASSED
2504.669	-52.06	0.00622	-63.97	11.91	HORIZONTAL	PASSED
3340.14	-55.01	0.00316	-63.78	8.77	HORIZONTAL	PASSED
3342.906	-54.11	0.00388	-62.8	8.69	HORIZONTAL	PASSED

*Substitution method could not be utilized as no emissions above noise floor were found during measurements.

3.5. GSM1900 TX test results

GSM mode, channel 661 / 1880.0 MHz

Frequency [MHz]	P [dBm]	P [µW]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarization	Results
1910.172	-41.91	0.06443	-52.16	10.25	HORIZONTAL	PASSED
1910.602	-37.5	0.17783	-47.75	10.25	HORIZONTAL	PASSED
2837.384	-44.69	0.03397	-63.53	18.84	VERTICAL	PASSED
2839.122	-45.3	0.02948	-64.13	18.83	HORIZONTAL	PASSED
2864.032	-45.23	0.02996	-63.99	18.76	VERTICAL	PASSED
2864.408	-44.21	0.03794	-62.94	18.73	VERTICAL	PASSED

*Substitution method could not be utilized as no emissions above noise floor were found during measurements.

3.6. GSM1900-E1 TX test results

EGPRS mode, Channel 661 / 1880.0 MHz

Frequency [MHz]	P [dBm]	P [µW]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarization	Results
1910.589	-43.28	0.04695	-53.53	10.25	HORIZONTAL	PASSED
1911.656	-50.04	0.00992	-60.31	10.27	HORIZONTAL	PASSED
2807.399	-46.13	0.0244	-64.06	17.93	HORIZONTAL	PASSED
2834.919	-45.59	0.02762	-64.31	18.72	VERTICAL	PASSED
2892.724	-43.71	0.04252	-62.57	18.86	VERTICAL	PASSED

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2912.349	-44.6	0.03464	-63.68	19.08	VERTICAL	PASSED

*Substitution method could not be utilized as no emissions above noise floor were found during measurements.

3.7. WCDMA 1900 (Band II) test results

FDD mode, Channel 9400 / 1880.0 MHz

Frequency [MHz]	P [dBm]	P [µW]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarization	Results
1910.507	-36.25	0.23697	-46.5	10.25	HORIZONTAL	PASSED
1910.529	-36.9	0.20413	-47.15	10.25	HORIZONTAL	PASSED
2431.939	-49.27	0.01184	-63.54	14.27	HORIZONTAL	PASSED
2432.662	-50.01	0.00998	-64.31	14.3	HORIZONTAL	PASSED
2836.569	-45.23	0.03001	-64.03	18.8	VERTICAL	PASSED
2887.577	-45.24	0.02995	-64.1	18.86	HORIZONTAL	PASSED

*Substitution method could not be utilized as no emissions above noise floor were found during measurements.

3.8. WCDMA 850 (Band V) test results

FDD mode, Channel 4175 / 835.0 MHz

Frequency [MHz]	P [dBm]	P [µW]	P_{MEAS} [dBm]	A_{TOT} [dB]	Polarization	Results
822.32	-45.64	0.0273	-79.62	33.98	HORIZONTAL	PASSED
847.533	-46.69	0.02141	-79.96	33.27	VERTICAL	PASSED
847.569	-46.47	0.02256	-79.75	33.28	VERTICAL	PASSED
847.58	-47.64	0.01721	-80.58	32.94	HORIZONTAL	PASSED
847.679	-46.83	0.02074	-79.76	32.93	HORIZONTAL	PASSED
848.556	-46.32	0.02332	-79.74	33.42	VERTICAL	PASSED

*Substitution method could not be utilized as no emissions above noise floor were found during measurements.

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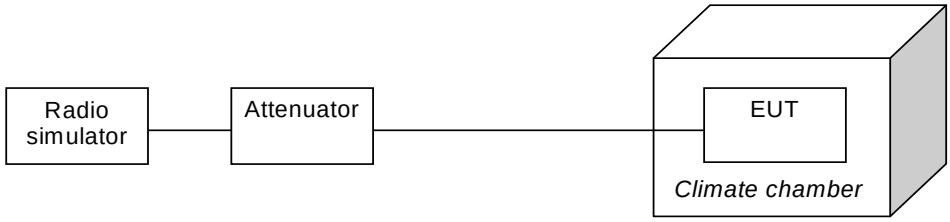
4. Frequency stability, temperature variation
(FCC §2.1055(a), RSS-132 4.3, RSS-133 6.3)

EUT with DUT number	RM-923, DUT 53018
Accessories with DUT numbers	BP-3L, DUT 53019 ; AC-20E, DUT 53020 ; WH-902, DUT 53021
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	23/39/101.5
Date of measurements	19-Oct-2012
Measured by	Gao Sherina

4.1. Test Setup



4.2. Test method and limit

The measurement is made according to FCC rules parts 22, 24 and IC standard RSS-132, RSS-133 as follows:

The climate chamber temperature is set to the maximum value and the temperature is allowed to stabilize.
The EUT is placed in the chamber.
The EUT is set in idle mode for 15 minutes.
The EUT is set to transmit.
The transmit frequency error was measured immediately.
The steps c - e were repeated for each temperature.Limits for frequency stability, temperature variation measurements

Frequency deviation [ppm]
+\- 2.5

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4.3. GSM 850 Test results

GSM, Channel 190 / 836.6 MHz

Temperature [°C]	Frequency [MHz]	Deviation [Hz]	Deviation [ppm]	Result
50	836.6	-13.11	-0.0157	PASSED
40	836.6	-24.41	-0.0292	PASSED
30	836.6	-22.6	-0.027	PASSED
20	836.6	-17.5	-0.0209	PASSED
10	836.6	-17.69	-0.0211	PASSED
0	836.6	-16.79	-0.0201	PASSED
-10	836.6	-13.75	-0.0164	PASSED
-20	836.6	-9.88	-0.0118	PASSED
-30	836.6	-17.24	-0.0206	PASSED

4.4. GSM 1900 Test results

GSM, Channel 661 / 1880.0 MHz

Temperature [°C]	Frequency [MHz]	Deviation [Hz]	Deviation [ppm]	Result
50	1880	-30.03	-0.016	PASSED
40	1880	-38.36	-0.0204	PASSED
30	1880	-36.35	-0.0193	PASSED
20	1880	-30.22	-0.0161	PASSED
10	1880	-19.24	-0.0102	PASSED
0	1880	-11.04	-0.0059	PASSED
-10	1880	-19.5	-0.0104	PASSED
-20	1880	7.55	0.004	PASSED
-30	1880	-36.22	-0.0193	PASSED

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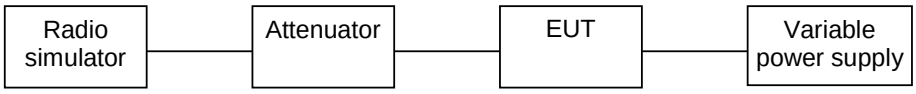
5. Frequency stability, voltage variation
(FCC §2.1055(d), RSS-132 4.3, RSS-133 6.3)

EUT with DUT number	RM-923, DUT 53018
Accessories with DUT numbers	Dummy battery, DUT 53025
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	23/39/101.5
Date of measurements	25-Oct-2012
Measured by	Gao Sherina

5.1. Test Setup



5.2. Test method and limit

The measurement is made according to FCC rules parts 22, 24 and IC standard RSS-132, RSS-133 as follows:

The EUT battery was replaced with an adjustable power supply. The frequency stability was measured at nominal voltage and at the battery cut-off point.
Limits for frequency stability, voltage variation measurements

Frequency deviation [ppm]
+\- 2.5

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5.3. GSM 850 Test results

GSM, Channel 190 / 836.6 MHz

Voltage level [V]	Frequency [MHz]	Deviation [Hz]	Deviation [ppm]	Result
Max / 4.2	836.6	-11.24	-0.0134	PASSED
Nominal / 3.7	836.6	-17.43	-0.0208	PASSED
Battery cut-off point / 3.4	836.6	-12.53	-0.015	PASSED

5.4. GSM 1900 Test results

GSM, Channel 661 / 1880.0 MHz

Voltage level [V]	Frequency [MHz]	Deviation [Hz]	Deviation [ppm]	Result
Max / 4.2	1880	-34.68	-0.0184	PASSED
Nominal / 3.7	1880	-28.54	-0.0152	PASSED
Battery cut-off point / 3.4	1880	-29.06	-0.0155	PASSED

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6. Test Equipment

6.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
-	RF Emission Software	EMC32 Test Software	R&S	22/24/27, 15C, 15B
BJPCHW0020	DC Power supply	Hp6632B	HP	22/24/27, 15C
BJPCPT0040	Receiver	ESCS30	R&S	15C,15B
BJPCPT0069	LISN 50 µH	ESH3-Z5	R&S	15C,15B
BJPCPT0073	Signal Generator	SMR 20	R&S	22/24/27, 15C, 15B
BJPCPT0191	Pulse Limiter	ESH3-Z2	R&S	15C,15B
BJPCTC0017	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
BJPCTC0067	Bluetooth Tester	CBT	R&S	22/24/27, 15C
BJPCTC0089	Tempreture Test chamber	VT4002	Votsch industrietechnik	22/24/27, 15C
BJPCTC0090	FSP spectrum analyzer	FSP30	R&S	22/24/27, 15C
BJPCTC0094	GPIB-RS232 convertor	GPIB-RS232	NI	22/24/27, 15C
BJPCTC0112	Power Splitter	11667B	Agilent	22/24/27, 15C
BJPCTC0114	Signal Generator	E8257C	Agilent	22/24/27, 15C
BJPCTC0115	Communication Tester	CMU200	R&S	22/24/27, 15B, 15C

6.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	RF Emission Software	EMC32 Test Software	R&S	22/24/27, 15C, 15B
BJPCPT0072	Receiver	ESI B26	R&S	22/24/27, 15C, 15B
BJPCPT0130	Relay Switch Unit	TS-RSP	R&S	22/24/27, 15C, 15B
BJPCPT0150	High Pass Filter	WHKS1200-10SS	Wainwright	22/24/27, 15C, 15B
BJPCPT0151	Band Reject Filter	WRCD1880/2000-0.2/40-5SSK	Wainwright	24, 15B
BJPCPT0154	Band Reject Filter	WRCT2402/2480-2400/2483.5-30-20SS	Wainwright	15C, 15B
BJPCPT0162	Antenna	HF906	R&S	22/24/27, 15C, 15B
BJPCTC0007	Antenna	HL562	R&S	22/24/27, 15C, 15B
BJPCTC0029	Antenna	HF906	R&S	22/24/27, 15C, 15B
BJPCTC0034	Band Reject Filter	WRCT 800/880-0.2/40-5SSK	Wainwright	22, 15B
BJPCTC0049	Preamplifier	Blma 0118-1A-Bt	Bonn	22/24/27, 15C, 15B
BJPCTC0055	Communication Tester	CMU200	R&S	22/24/27,15C,15B
BJPCTC0058	Bluetooth Tester	CBT	R&S	15C, 15B
BJPCTC0064	Band Reject Filter	WRCG1877/1883-1870/1890-40/6SS	Wainwright	24, 15B
BJPCTC0065	Band Reject Filter	WRCG832/838-825/845-40/5SS	Wainwright	27, 15B
BJPCTC0071	Multi-Device Controller	2090	EMCO	22/24/27, 15C, 15B
BJPCTC0072	Anechoic Chamber	3 m Semi / Full Anechoic Chamber	ETS	22/24/27, 15C, 15B
BJPCTC0073	MAST	Model-TR/POL	ETS	22/24/27, 15C, 15B
BJPCTC0074	MAST	Model 2070-2	ETS	22/24/27, 15C, 15B
BJPCTC0075	Turntable	Model 2188	ETS-EMCO	22/24/27, 15C, 15B
BJPCTC0096	Preamplifier	AFS4-00100300-20-23P-6	Miteq	22/24/27, 15C, 15B
BJPCTC0113	Receiver	ESI B26	R&S	22/24/27, 15B, 15C
BJPCTC0115	Communication Tester	CMU200	R&S	22/24/27, 15B, 15C
BJPCTC0124	Attenuator	SA18N200W-40	Fairview Microwave	-

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