

FCC Part 15C Compliance Test Report

Test Report no.:	Bej_FCC_0747_04.doc	Date of Report:	29.11.2007
Number of pages:	12	Customer's Contact person:	Dai Xuejun
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FCC listing no.:	884453		
IC recognition no.:	4917		
Tested devices/ accessories:	Phone RM-391 / Battery BL-4B, AC-charger AC-3, Headset HS-47.		
FCC ID:	QTLRM-391	IC:	661AB-RM391
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:			

Yin Hongpeng, Engineer

1. Summary for FCC Part 15C Compliance Test Report

Date of receipt	20.11.2007
Testing completed	23.11.2007
The customer's contact person	Dai Xuejun
Test Plan referred to	T:\Projects\RM-391\TestPlan_RS\RS_Testplan_RM-391.xls
Notes	-
Document name	T:\Projects\RM-391\EMC\Results\FCC\Bej_FCC_0747_04.doc

1.1. EUT and Accessory Information

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

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-391	001004/00/261373/6	0424	-	pt06w47_07 w46_fam	50739
Battery	BL-4B	0670501382066N513A10100157	-	-	-	50575
AC-Charger	AC-3	3997916506292100005;0675370	-	-	-	50578
Headset	HS-47	0694579651502105972	-	-	-	50727

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	NP
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	NP
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

FAILED

NP

The EUT complies with the essential requirements in the standard.

The EUT does not comply with the essential requirements in the standard.

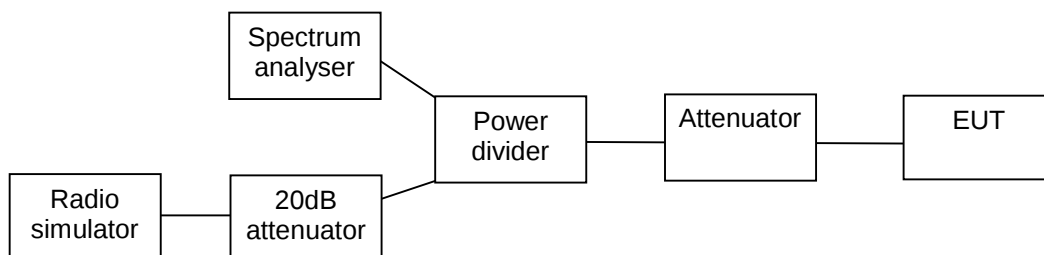
The test was not performed by the TCC Nokia Beijing Laboratory.

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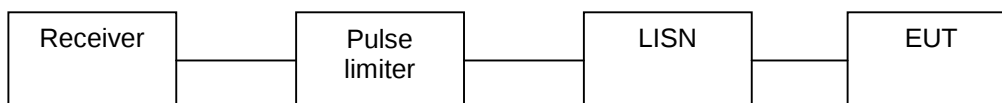
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2. Test setups

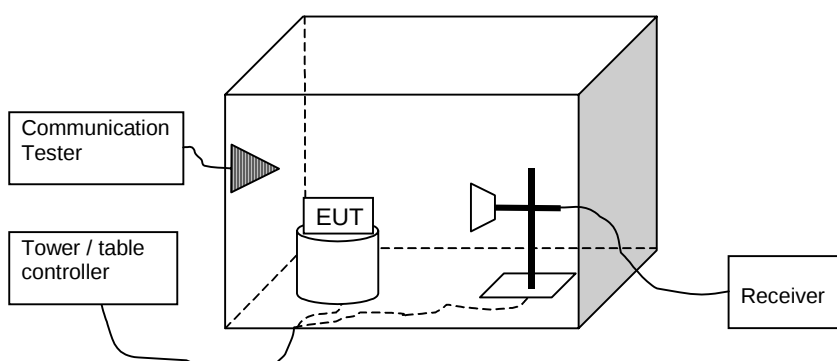
2.1. Conducted RF test setup



2.2. AC powerline conducted emissions test setup



2.3. Spurious radiated emissions test setup



3. Spurious radiated emissions (FCC §15.247(d), §15.209, RSS-210 A8.5)

EUT with DUT number	RM-391 DUT 50739
Accessories with DUT numbers	BL-4B DUT 50575;AC-3 DUT 50578;HS-47 DUT 50727
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	Phone was tested with flip open and closed
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 64 / 102.1 – 20 / 67 / 101.8
Date of measurements	22-23.11.2007
Measured by	Yin Hongpeng

3.1. 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 ($A_{TOT} = L_{CABLES} + AF - G_{PREAMP}$).

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

Frequency range [MHz]	Limit [$\mu\text{V/m}$]	Limit [dB $\mu\text{V/m}$]	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

3.2. Bluetooth Test results

3.2.1 GFSK modulation, PRBS packet type

Flip open

Channel 0 / 2402 MHz

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

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U_{RX} [dB μV]	A_{TOT} [dB]	Polarisation	Result
4804.000000	44.40	165.96	36.10	8.3	VERTICAL	PASSED
7206.000000	46.40	208.93	33.70	12.7	VERTICAL	PASSED

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

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U_{RX} [dB μV]	A_{TOT} [dB]	Polarisation	Result
4804.000000	32.50	42.17	24.20	8.3	VERTICAL	PASSED
7206.000000	33.90	49.55	21.20	12.7	HORIZONTAL	PASSED

Channel 40 / 2442 MHz

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

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U_{RX} [dB μV]	A_{TOT} [dB]	Polarisation	Result
38.195391	19.70	9.66	46.30	-26.6	VERTICAL	PASSED

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

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U_{RX} [dB μV]	A_{TOT} [dB]	Polarisation	Result
4848.697395	45.40	186.21	36.60	8.8	HORIZONTAL	PASSED
7275.543086	47.20	229.09	34.50	12.7	VERTICAL	PASSED
14476.961924	54.40	524.81	31.50	22.9	VERTICAL	PASSED
14497.500000	54.30	518.80	31.40	22.9	VERTICAL	PASSED
15479.961924	56.30	653.13	30.40	25.9	HORIZONTAL	PASSED
15941.383768	57.30	732.82	30.10	27.2	HORIZONTAL	PASSED
16131.264529	59.40	933.25	31.70	27.7	HORIZONTAL	PASSED
17844.689379	61.20	1,148.15	29.60	31.6	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
4851.197395	32.70	43.15	24.00	8.7	HORIZONTAL	PASSED
7270.543086	34.40	52.48	21.70	12.7	VERTICAL	PASSED
14484.961924	40.90	110.92	18.00	22.9	VERTICAL	PASSED
14503.000000	41.50	118.85	18.60	22.9	VERTICAL	PASSED
15483.461924	42.80	138.04	16.80	26.0	HORIZONTAL	PASSED
15945.883768	44.30	164.06	17.20	27.1	HORIZONTAL	PASSED
16132.764529	46.70	216.27	19.00	27.7	HORIZONTAL	PASSED
17841.189379	48.10	254.10	16.50	31.6	VERTICAL	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	43.10	142.89	37.80	5.3	HORIZONTAL	PASSED
7440.000000	47.30	231.74	35.00	12.3	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	30.40	33.11	25.10	5.3	HORIZONTAL	PASSED
7440.000000	34.70	54.33	22.40	12.3	VERTICAL	PASSED

Flip closed

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	44.70	171.79	36.40	8.3	VERTICAL	PASSED
7206.000000	46.60	213.80	33.90	12.7	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	32.40	41.69	24.10	8.3	HORIZONTAL	PASSED
7206.000000	34.00	50.12	21.30	12.7	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
37.976353	18.20	8.13	44.70	-26.5	VERTICAL	PASSED

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

Frequency	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT}	Polarisation	Result
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[MHz]				[dB]		
4852.699399	44.80	173.78	36.10	8.7	HORIZONTAL	PASSED
7273.051102	47.00	223.87	34.30	12.7	VERTICAL	PASSED
7443.389780	47.00	223.87	34.60	12.4	HORIZONTAL	PASSED
14491.483968	54.40	524.81	31.50	22.9	HORIZONTAL	PASSED
14498.500000	54.90	555.90	32.00	22.9	HORIZONTAL	PASSED
15371.747495	55.70	609.54	30.40	25.3	VERTICAL	PASSED
15979.965932	57.70	767.36	30.30	27.4	VERTICAL	PASSED
16166.332665	59.50	944.06	31.40	28.1	VERTICAL	PASSED
17917.335671	62.10	1,273.50	29.70	32.4	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
4847.199399	32.80	43.65	24.00	8.8	HORIZONTAL	PASSED
7277.051102	34.50	53.09	21.90	12.6	VERTICAL	PASSED
7443.889780	34.80	54.95	22.40	12.4	HORIZONTAL	PASSED
14490.483968	41.20	114.82	18.30	22.9	HORIZONTAL	PASSED
14502.500000	41.50	118.85	18.60	22.9	HORIZONTAL	PASSED
15374.747495	42.50	133.35	17.20	25.3	VERTICAL	PASSED
15981.965932	45.10	179.89	17.70	27.4	VERTICAL	PASSED
16162.332665	46.80	218.78	18.80	28.0	VERTICAL	PASSED
17921.835671	48.30	260.02	15.90	32.4	VERTICAL	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	43.20	144.54	37.90	5.3	VERTICAL	PASSED
7440.000000	47.80	245.47	35.50	12.3	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	30.60	33.88	25.30	5.3	HORIZONTAL	PASSED
7440.000000	34.70	54.33	22.40	12.3	HORIZONTAL	PASSED

3.2.2 8DPSK modulation, PRBS packet type

Flip open

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	45.40	186.21	37.10	8.3	HORIZONTAL	PASSED
7206.000000	48.00	251.19	35.30	12.7	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	32.90	44.16	24.60	8.3	HORIZONTAL	PASSED
7206.000000	34.00	50.12	21.30	12.7	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
38.235872	19.80	9.77	46.40	-26.6	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
4848.699399	45.40	186.21	36.60	8.8	VERTICAL	PASSED
7277.555110	47.70	242.66	35.10	12.6	VERTICAL	PASSED
14497.987976	53.90	495.45	31.00	22.9	VERTICAL	PASSED
14500.000000	54.00	501.19	31.10	22.9	HORIZONTAL	PASSED
15388.275551	55.80	616.60	30.60	25.2	VERTICAL	PASSED
15973.445892	57.50	749.89	30.20	27.3	VERTICAL	PASSED
16187.368737	59.60	954.99	31.10	28.5	HORIZONTAL	PASSED
17894.281563	61.60	1,202.26	29.50	32.1	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
4852.199399	32.60	42.66	23.90	8.7	VERTICAL	PASSED
7280.555110	34.60	53.70	22.00	12.6	VERTICAL	PASSED
14492.987976	41.30	116.14	18.40	22.9	VERTICAL	PASSED
14496.000000	41.30	116.14	18.40	22.9	HORIZONTAL	PASSED
15391.775551	42.30	130.32	17.10	25.2	VERTICAL	PASSED
15972.945892	44.90	175.79	17.60	27.3	VERTICAL	PASSED
16183.368737	46.80	218.78	18.30	28.5	HORIZONTAL	PASSED
17887.781563	48.20	257.04	16.20	32.0	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	43.00	141.25	37.70	5.3	HORIZONTAL	PASSED
7440.000000	47.70	242.66	35.40	12.3	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	30.60	33.88	25.30	5.3	HORIZONTAL	PASSED
7440.000000	34.80	54.95	22.50	12.3	VERTICAL	PASSED

Flip closed

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	45.20	181.97	36.90	8.3	VERTICAL	PASSED
7206.000000	46.60	213.80	33.90	12.7	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	33.10	45.19	24.80	8.3	HORIZONTAL	PASSED
7206.000000	34.00	50.12	21.30	12.7	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
38.035872	18.60	8.51	45.10	-26.5	VERTICAL	PASSED
67.393587	14.80	5.50	52.80	-38.0	HORIZONTAL	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4847.699399	45.30	184.08	36.50	8.8	VERTICAL	PASSED
7279.553106	47.10	226.46	34.50	12.6	VERTICAL	PASSED
14496.500000	53.80	489.78	30.90	22.9	HORIZONTAL	PASSED
14498.000000	54.90	555.90	32.00	22.9	HORIZONTAL	PASSED
15484.461924	55.80	616.60	29.80	26.0	VERTICAL	PASSED
15927.863727	57.30	732.82	30.10	27.2	VERTICAL	PASSED
16154.304609	59.90	988.55	32.00	27.9	VERTICAL	PASSED
17833.173347	61.40	1,174.90	29.80	31.6	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
4848.199399	32.80	43.65	24.00	8.8	VERTICAL	PASSED
7274.553106	34.50	53.09	21.80	12.7	VERTICAL	PASSED
14498.500000	41.30	116.14	18.40	22.9	HORIZONTAL	PASSED
14503.500000	41.50	118.85	18.60	22.9	HORIZONTAL	PASSED
15481.461924	42.70	136.46	16.80	25.9	VERTICAL	PASSED
15934.863727	44.20	162.18	17.00	27.2	VERTICAL	PASSED
16153.304609	46.70	216.27	18.80	27.9	VERTICAL	PASSED
17833.673347	47.80	245.47	16.20	31.6	VERTICAL	PASSED

Channel 78 / 2480 MHz

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

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4960.000000	43.70	153.11	38.40	5.3	HORIZONTAL	PASSED
7440.000000	47.70	242.66	35.40	12.3	VERTICAL	PASSED

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

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4960.000000	30.80	34.67	25.50	5.3	HORIZONTAL	PASSED
7440.000000	34.70	54.33	22.40	12.3	VERTICAL	PASSED

4. Test Equipment

4.1. 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

4.2. 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
BJPCTC0046	Shielding Enclosure	3M Test Site	ETS-Lindgren	22/24/27, 15C, 15B
BJPCTC0047	Turntable	Model 2088-1.23	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