

FCC Part 15B Compliance Test Report

Test Report no.:	FCC15B_RM-803_08.docx	Date of Report:	28-Sep-2011
Number of pages:	12	Customer's Contact person:	Abadilla Victoria
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FCC listing no.:	975940		
IC recognition no.:	661AH-1		
Tested devices/ accessories:	Phone RM-803 / Battery BP-3L / AC-charger AC-10U / Headset WH-208		
FCC ID:	QMNRM-803	IC:	661X-RM803
Supplement reports:	-		
Testing has been carried out in accordance with:	CFR 47, FCC rules Part 15 Subpart B, ANSI C63.4 (2003), ICES-003, CISPR 22, RSS-132 (Issue 2, September 2005), RSS-133 (Issue 5, February 2009), RSS-210 (Issue 8, December 2010). 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:			

Jia Dongsheng, System Manager

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	07-Sep-2011
Testing completed	22-Sep-2011
The customer's contact person	Abadilla Victoria
Test Plan referred to	T:\Projects\RM-803\TestPlan\RS_testplan_RM-803.xls
Notes	-
Document name	FCC15B_RM-803_08.docx

1.1. EUT and Accessory Information

The EUT is a 7-band (GSM850/900/1800/1900 and WCDMA Band I/II(1900)/VIII) mobile phone with GPRS, EGPRS, Bluetooth and WLAN. The EUT is tested with maximum rated TX power, modulated with pseudo random bit sequence (PRBS9).

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-803	004402136356247	0110	-	1600.2201.7 720.11350	52433
Battery	BP-3L	0670389495540P134110100077	-	-	-	52436
AC-charger	AC-10U	3997910232052202753;0675409	-	-	-	52438
Headset	WH-208	394	-	-	-	52440

1.2. Summary of Test Results

GSM850:

Section in CFR 47	Section in ICES-003 (RSS-132)	Name of the test	Result
15.107, a	5.3	AC powerline conducted emissions	NP
15.109, a	5.5 (4.6)	Radiated emissions	PASSED

GSM1900:

Section in CFR 47	Section in ICES-003 (RSS-133)	Name of the test	Result
15.107, a	5.3	AC powerline conducted emissions	NP
15.109, a	5.5 (6.6)	Radiated emissions	PASSED

WCDMA 1900 (Band II):

Section in CFR 47	Section in ICES-003 (RSS-133)	Name of the test	Result
15.107, a	5.3	AC powerline conducted emissions	NP
15.109, a	5.5 (6.6)	Radiated emissions	PASSED

Bluetooth:

Section in CFR 47	Section in ICES-003 (RSS-139)	Name of the test	Result
15.107, a	5.3	AC powerline conducted emissions	NP
15.109, a	5.5 (6.6)	Radiated emissions	PASSED

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 Laboratory.

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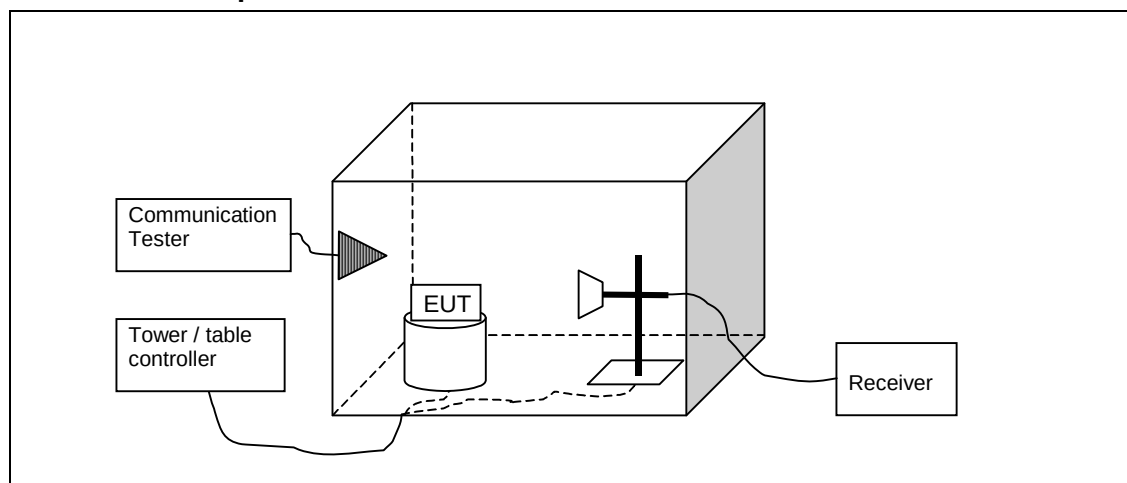
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2. Radiated emissions

(FCC §15.109, ICES-003 section 5.5, RSS-132 4.6, RSS-133 6.6)

EUT with DUT number	RM-803, DUT 52433
Accessories with DUT numbers	BP-3L, DUT 52436 ; AC-10U, DUT 52438 ; WH-208, DUT 52440
Operation Voltage [V] / [Hz]	115 / 60
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 55 / 101.2
Date of measurements	22-Sep-2011
Measured by	Zou Ming

2.1.1 Test Setup



2.2. Test method and limit

The measurement is made according to ANSI C63.4-2003as follows:

The measurement is performed in the Semi-Anechoic Chamber with conducting metal floor.

The measurement distance is 3 m.

The EUT is placed on a nonconductive plate at 80 cm height.

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

CISPR 22 and FCC Part 15 Class B limits (3 m measurement distance)

Frequency range [MHz]	Quasi peak limit [dBμV/m]	Average limit [dBμV/m]	Peak limit [dBμV/m]
30 - 230	40	-	-
230 – 1000	47	-	-
Above 1000	-	54	74

2.3. GSM850 Test results, FM radio on

RX mode, channel 128 / 869.2 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3474.9	40.34	104.004	43.49	-3.15	VERTICAL	PASSED
6955.4	51.8	389.09	47.31	4.49	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
3474.9	27.12	22.688	30.27	-3.15	VERTICAL	PASSED
6955.4	38.29	82.092	33.8	4.49	HORIZONTAL	PASSED

RX mode, channel 190 / 881.6 MHz

Quasi peak (RBW: 120 kHz, VBW: 300 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
37.715	24.79	17.358	38.19	-13.4	VERTICAL	PASSED
41.412	25.4	18.625	41.36	-15.96	VERTICAL	PASSED
84.978	12.64	4.286	36.12	-23.48	HORIZONTAL	PASSED
97.986	25.73	19.337	48.29	-22.56	VERTICAL	PASSED
121.31	14.59	5.367	35.75	-21.16	VERTICAL	PASSED
124.827	16.61	6.77	38.39	-21.78	VERTICAL	PASSED
124.951	14.67	5.414	36.48	-21.81	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
2922.541	49.76	307.574	42.12	7.64	HORIZONTAL	PASSED
7041.383	45.51	188.669	40.94	4.57	VERTICAL	PASSED
7049.096	46.1	201.883	41.59	4.51	HORIZONTAL	PASSED
7066.234	46.53	212.153	41.98	4.55	HORIZONTAL	PASSED
7845.094	46.22	204.715	41.85	4.37	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
2922.541	37.16	72.136	29.52	7.64	HORIZONTAL	PASSED
7041.383	32.66	42.964	28.09	4.57	VERTICAL	PASSED
7049.096	32.57	42.491	28.06	4.51	HORIZONTAL	PASSED
7066.234	32.74	43.361	28.19	4.55	HORIZONTAL	PASSED
7845.094	32.62	42.751	28.25	4.37	HORIZONTAL	PASSED

RX mode, channel 251 / 893.8 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3573.5	40.26	103.05	43.62	-3.36	HORIZONTAL	PASSED
7151	45.29	183.865	40.81	4.48	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
3573.5	27.02	22.441	30.38	-3.36	HORIZONTAL	PASSED
7151	32.64	42.87	28.16	4.48	HORIZONTAL	PASSED

2.4. GSM1900 Test results, FM radio on

RX mode, channel 512 / 1930.2 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3859.9	41	112.163	42.82	-1.82	VERTICAL	PASSED
7720.3	45.32	184.587	41.2	4.12	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
3859.9	28.25	25.849	30.07	-1.82	VERTICAL	PASSED
7720.3	32.19	40.701	28.07	4.12	HORIZONTAL	PASSED

RX mode, channel 661 / 1960.0 MHz

Quasi peak (RBW: 120 kHz, VBW: 300 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
37.404	25.81	19.523	38.97	-13.16	VERTICAL	PASSED
41.232	25.43	18.687	41.29	-15.86	VERTICAL	PASSED
69.134	1.82	1.233	26.78	-24.96	HORIZONTAL	PASSED
87.403	15.14	5.716	38.38	-23.24	VERTICAL	PASSED
98.046	25.39	18.591	47.95	-22.56	VERTICAL	PASSED
124.578	16.9	6.996	38.64	-21.74	VERTICAL	PASSED

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
2933.464	49.63	302.866	41.99	7.64	VERTICAL	PASSED
7031.867	45.6	190.436	41.08	4.52	HORIZONTAL	PASSED
7041.885	45.51	188.625	40.94	4.57	VERTICAL	PASSED
7075.146	45.74	193.598	41.21	4.53	VERTICAL	PASSED
7827.355	45.67	191.999	41.34	4.33	HORIZONTAL	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
2933.464	36.75	68.802	29.11	7.64	VERTICAL	PASSED
7031.867	32.56	42.467	28.04	4.52	HORIZONTAL	PASSED
7041.885	32.61	42.697	28.04	4.57	VERTICAL	PASSED
7075.146	32.78	43.526	28.25	4.53	VERTICAL	PASSED
7827.355	32.65	42.894	28.32	4.33	HORIZONTAL	PASSED

RX mode, channel 810 / 1989.8 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
3978.6	40.22	102.518	42.4	-2.18	HORIZONTAL	PASSED
7958.3	45.52	188.756	41.21	4.31	HORIZONTAL	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
3978.6	27.55	23.853	29.73	-2.18	HORIZONTAL	PASSED
7958.3	32.35	41.467	28.04	4.31	HORIZONTAL	PASSED

2.5. WCDMA 1900 (Band II) Test results, GPS active

RX mode, channel 9662 / 1932.4 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3864.7	41.14	113.959	42.96	-1.82	HORIZONTAL	PASSED
7729.8	45.07	179.226	40.95	4.12	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
3864.7	28.03	25.217	29.85	-1.82	HORIZONTAL	PASSED
7729.8	32.25	40.959	28.13	4.12	VERTICAL	PASSED

RX mode, channel 9800 / 1960.0 MHz

Quasi peak (RBW: 120 kHz, VBW: 300 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
33.187	19.36	9.291	29.39	-10.03	VERTICAL	PASSED
37.525	24.59	16.961	37.84	-13.25	VERTICAL	PASSED
41.532	24.06	15.95	40.09	-16.03	VERTICAL	PASSED
84.799	11.66	3.829	35.16	-23.5	VERTICAL	PASSED
123.232	11.5	3.757	33	-21.5	VERTICAL	PASSED
123.972	12.08	4.018	33.71	-21.63	VERTICAL	PASSED
124.629	11.99	3.978	33.74	-21.75	VERTICAL	PASSED
125.341	9.74	3.068	31.6	-21.86	VERTICAL	PASSED
176.111	4.1	1.604	27.29	-23.19	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
7040.481	45.38	185.674	40.82	4.56	HORIZONTAL	PASSED
7060.325	45.75	193.865	41.07	4.68	HORIZONTAL	PASSED
7068.434	45.71	192.975	41.2	4.51	VERTICAL	PASSED
7075.452	46.52	211.714	41.99	4.53	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
7040.481	32.66	42.949	28.1	4.56	HORIZONTAL	PASSED
7060.325	32.74	43.351	28.06	4.68	HORIZONTAL	PASSED
7068.434	32.76	43.431	28.25	4.51	VERTICAL	PASSED
7075.452	32.84	43.838	28.31	4.53	HORIZONTAL	PASSED

RX mode, channel 9938 / 1987.6 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3975.5	40.52	106.17	42.67	-2.15	HORIZONTAL	PASSED
7949.6	45.24	182.705	40.95	4.29	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
3975.5	27.43	23.526	29.58	-2.15	HORIZONTAL	PASSED
7949.6	32.4	41.692	28.11	4.29	HORIZONTAL	PASSED

2.6. Bluetooth Test results

2.6.1 GFSK modulation, PRBS packet type

TX mode, 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	41.88	124.222	42.53	-0.65	HORIZONTAL	PASSED
7205.3	45.15	180.842	40.55	4.6	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
4804	28.98	28.106	29.63	-0.65	HORIZONTAL	PASSED
7205.3	32.53	42.296	27.93	4.6	HORIZONTAL	PASSED

TX mode, Channel 40 / 2442 MHz

Quasi peak (RBW: 120 kHz, VBW: 300 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
37.194	25.48	18.791	38.31	-12.83	VERTICAL	PASSED
40.722	24.76	17.302	40.27	-15.51	VERTICAL	PASSED
40.953	24.07	15.977	39.72	-15.65	VERTICAL	PASSED
85.641	17.58	7.569	40.65	-23.07	VERTICAL	PASSED
125.9	14.66	5.408	36.1	-21.44	VERTICAL	PASSED
903.954	19.71	9.666	27.55	-7.84	HORIZONTAL	PASSED
940.541	27.23	22.975	34.86	-7.63	HORIZONTAL	PASSED
949.078	26.34	20.759	33.86	-7.52	VERTICAL	PASSED

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
2014.145	46.14	202.745	44.31	1.83	HORIZONTAL	PASSED
2920.843	53.37	466.337	42.95	10.42	VERTICAL	PASSED
7031.262	45.72	193.241	41.2	4.52	VERTICAL	PASSED
7038.178	45.5	188.3	40.95	4.55	HORIZONTAL	PASSED
7056.814	45.33	184.629	40.68	4.65	VERTICAL	PASSED
7069.841	45.82	195.389	41.34	4.48	HORIZONTAL	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
2014.145	32.68	43.033	30.85	1.83	HORIZONTAL	PASSED
2920.843	39.93	99.14	29.51	10.42	VERTICAL	PASSED
7031.262	32.56	42.442	28.04	4.52	VERTICAL	PASSED
7038.178	32.67	42.988	28.12	4.55	HORIZONTAL	PASSED
7056.814	32.73	43.296	28.08	4.65	VERTICAL	PASSED
7069.841	32.74	43.336	28.26	4.48	HORIZONTAL	PASSED

TX mode, 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
4959.3	43.21	144.694	43.35	-0.14	VERTICAL	PASSED
7439.4	46.01	199.641	41.21	4.8	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
4959.3	30.33	32.859	30.47	-0.14	VERTICAL	PASSED
7439.4	33.22	45.804	28.42	4.8	VERTICAL	PASSED

3. Test Equipment

3.1. 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
BJPCPT0073	Signal Generator	SMR 20	R&S	22/24/27, 15C, 15B
BJPCPT0079	LISN 50 μ H	ESH3-Z5	R&S	15C,15B
BJPCPT0131	Communication Tester	CMU200	R&S	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	GPB-RS232 convertor	GPB-RS232	NI	22/24/27, 15C
BJPCTC0112	Power Splitter	11667B	Agilent	22/24/27, 15C
BJPCTC0114	Signal Generator	E8357C	Agilent	22/24/27, 15C
BJPCTC0115	Communication Tester	CMU200	R&S	22/24/27, 15B, 15C

3.2. 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	-