

## FCC Part 15B Compliance Test Report

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                  |                                   |                                                                                                                       |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Test Report no.:</b>                                 | FCC15B_RM-615_06.doc                                                                                                                                                                                                                                                                                                                                                             | <b>Date of Report:</b>            | 20-Nov-2009                                                                                                           |
| <b>Number of pages:</b>                                 | 9                                                                                                                                                                                                                                                                                                                                                                                | <b>Customer's Contact person:</b> | Vivian Kill-Tollnek                                                                                                   |
| <b>Testing laboratory:</b>                              | TCC Nokia Salo Laboratory<br>P.O.Box(86)<br>Joensuunkatu 7H / Kiila 1B<br>FIN-24101 SALO, FINLAND<br>Tel. +358 (0) 7180 08000<br>Fax. +358 (0) 7180 45220                                                                                                                                                                                                                        | <b>Customer:</b>                  | Nokia Corporation<br>Lise Meitner Strasse 10<br>89081 ULM<br>GERMANY<br>Tel. +49 731 1754 0<br>Fax. +49 731 1754 6800 |
| <b>FCC listing no.:</b>                                 | 533467                                                                                                                                                                                                                                                                                                                                                                           |                                   |                                                                                                                       |
| <b>IC recognition no.:</b>                              | 661V-1                                                                                                                                                                                                                                                                                                                                                                           |                                   |                                                                                                                       |
| <b>Tested devices/ accessories:</b>                     | phone RM-615 / Battery BL-4U / AC Charger AC-8E / WH-205                                                                                                                                                                                                                                                                                                                         |                                   |                                                                                                                       |
| <b>FCC ID:</b>                                          | PPIRM-615                                                                                                                                                                                                                                                                                                                                                                        | <b>IC:</b>                        | 661U-RM615                                                                                                            |
| <b>Supplement reports:</b>                              | -                                                                                                                                                                                                                                                                                                                                                                                |                                   |                                                                                                                       |
| <b>Testing has been carried out in accordance with:</b> | CFR 47, FCC rules Part 15 Subpart B, ANSI C63.4 (2003), ICES-003, CISPR 22 and IC standards RSS-132 (Issue 2, September 2005), RSS-133 (Issue 5, February 2009), RSS-139 (Issue 2, February 2009) 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". |                                   |                                                                                                                       |
| <b>Documentation:</b>                                   | 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.                                                                                                                             |                                   |                                                                                                                       |
| <b>Test Results:</b>                                    | 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.                                                                                                                                                                                                                     |                                   |                                                                                                                       |
| <b>Date and signature for the contents:</b>             |                                                                                                                                                                                                                                                                                                                                                                                  |                                   |                                                                                                                       |

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## 1. Summary for FCC Part 15B Compliance Test Report

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| Date of receipt               | 29-Sep-2009                                           |
| Testing completed             | 03-Nov-2009                                           |
| The customer's contact person | Vivian Kill-Tollnek                                   |
| Test Plan referred to         | T:\Projects\RM-615\TestPlan_RS\RS_testplan_RM-615.xls |
| Notes                         | -                                                     |
| Document name                 | FCC15B_RM-615_06.doc                                  |

### 1.1. EUT and Accessory Information

The EUT is a 7-band (GSM850/900/1800/1900 and WCDMA Band I/II(1900)/V(850)) mobile phone with GPRS, EGPRS and Bluetooth. GSM and WCDMA bands are tested in idle mode. Bluetooth is tested with maximum rated TX power.

| Product    | Type   | SN                          | HW   | MV | SW          | DUT   |
|------------|--------|-----------------------------|------|----|-------------|-------|
| phone      | RM-615 | 004401107459477             | 0112 | -  | bn_mtv 5.05 | 14222 |
| Headset    | WH-205 | 06944219215D1R00263         | CE   | -  | -           | 14245 |
| AC Charger | AC-8E  | 399791752707030013460675387 | CE   | -  | -           | 14234 |
| Battery    | BL-4U  | 4620408325I1017425260670560 | -    | -  | -           | 14240 |

### 1.2. Summary of Test Results

#### GSM 850:

| 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 |

#### GSM 1900:

| 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 |

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 Salo Laboratory.

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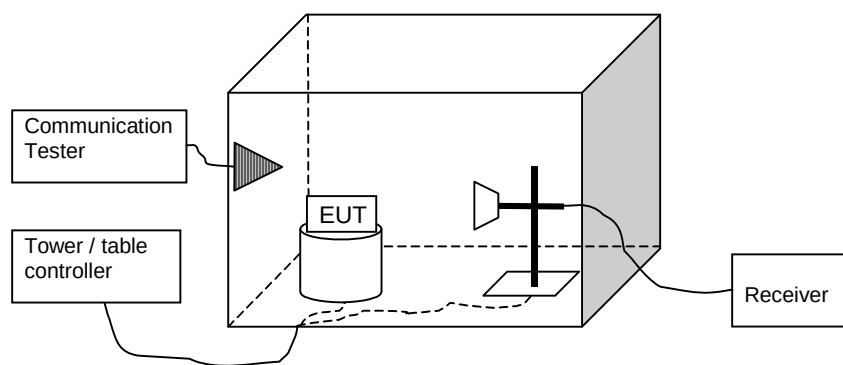
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## 2. Radiated emissions

(FCC §15.109, ICES-003 section 5.5, RSS-132 4.6, RSS-133 6.6, RSS-139 6.6)

|                                                 |                                                       |
|-------------------------------------------------|-------------------------------------------------------|
| EUT with DUT number                             | RM-615, DUT 14222                                     |
| Accessories with DUT numbers                    | AC-8E, DUT 14234; WH-205, DUT 14245; BL-4U, DUT 14240 |
| Operation Voltage [V] / [Hz]                    | 115 / 60                                              |
| Result                                          | PASSED                                                |
| Remarks                                         | -                                                     |
| Temp [°C] / Humidity [%RH] / Air Pressure [kPa] | 22 / 50 / 101.3                                       |
| Date of measurements                            | 03-Nov-2009                                           |
| Measured by                                     | Sami Lehtonen                                         |

### 2.1. 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:

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

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

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. GSM 850 Test results

RX mode, channel 128 / 869.2 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3476.800000     | 43.60      | 151.36   | 45.20                  | -1.6                  | HORIZONTAL   | PASSED |
| 6953.600000     | 47.00      | 223.87   | 43.50                  | 3.5                   | HORIZONTAL   | PASSED |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3476.800000     | 30.80      | 34.67    | 32.40                  | -1.6                  | VERTICAL     | PASSED |
| 6953.600000     | 33.90      | 49.55    | 30.40                  | 3.5                   | VERTICAL     | PASSED |

RX mode, channel 190 / 881.6 MHz

Quasi peak (RBW: 120 kHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 30.200000       | 25.00      | 17.78    | 33.20                  | -8.2                  | VERTICAL     | PASSED |
| 84.029659       | 11.80      | 3.89     | 32.50                  | -20.7                 | HORIZONTAL   | PASSED |
| 142.545090      | 24.00      | 15.85    | 47.50                  | -23.5                 | VERTICAL     | PASSED |
| 525.250100      | 18.30      | 8.22     | 35.80                  | -17.5                 | HORIZONTAL   | PASSED |

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

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 2941.379760     | 53.10      | 451.86   | 48.70                  | 4.4                   | VERTICAL     | PASSED |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 1979.457916     | 34.00      | 50.12    | 34.80                  | -0.8                  | VERTICAL     | PASSED |
| 2936.379760     | 40.00      | 100.00   | 35.80                  | 4.2                   | VERTICAL     | PASSED |
| 7488.981964     | 34.90      | 55.59    | 30.30                  | 4.6                   | VERTICAL     | PASSED |
| 7970.945892     | 35.80      | 61.66    | 30.00                  | 5.8                   | VERTICAL     | PASSED |

RX mode, channel 251 / 893.8 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3575.200000     | 42.10      | 127.35   | 45.00                  | -2.9                  | VERTICAL     | PASSED |
| 7150.400000     | 46.60      | 213.80   | 43.90                  | 2.7                   | HORIZONTAL   | PASSED |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3575.200000     | 29.30      | 29.17    | 32.20                  | -2.9                  | VERTICAL     | PASSED |
| 7150.400000     | 33.80      | 48.98    | 31.10                  | 2.7                   | VERTICAL     | PASSED |

## 2.4. GSM 1900 Test results

RX mode, channel 512 / 1930.2 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3860.000000     | 42.00      | 125.89   | 44.80                  | -2.8                  | HORIZONTAL   | PASSED |
| 7720.000000     | 47.60      | 239.88   | 43.50                  | 4.1                   | HORIZONTAL   | PASSED |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3860.000000     | 29.20      | 28.84    | 32.00                  | -2.8                  | HORIZONTAL   | PASSED |
| 7720.000000     | 34.60      | 53.70    | 30.50                  | 4.1                   | HORIZONTAL   | PASSED |

RX mode, channel 661 / 1960.0 MHz

Quasi peak (RBW: 120 kHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 34.247695       | 22.20      | 12.88    | 32.90                  | -10.7                 | VERTICAL     | PASSED |
| 142.445090      | 22.60      | 13.49    | 46.10                  | -23.5                 | VERTICAL     | PASSED |
| 498.497595      | 17.70      | 7.67     | 35.70                  | -18.0                 | VERTICAL     | PASSED |
| 555.310220      | 18.30      | 8.22     | 35.30                  | -17.0                 | VERTICAL     | PASSED |
| 931.061723      | 24.20      | 16.22    | 34.30                  | -10.1                 | VERTICAL     | PASSED |

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

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 1959.921844     | 77.80      | 7 762.47 | 78.70                  | -0.9                  | HORIZONTAL   | PASSED |
| 2942.379760     | 52.90      | 441.57   | 48.60                  | 4.3                   | VERTICAL     | PASSED |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 2936.379760     | 40.00      | 100.00   | 35.80                  | 4.2                   | VERTICAL     | PASSED |
| 7504.000000     | 35.20      | 57.54    | 30.50                  | 4.7                   | HORIZONTAL   | PASSED |
| 7973.447896     | 35.80      | 61.66    | 30.00                  | 5.8                   | HORIZONTAL   | PASSED |

RX mode, channel 810 / 1989.8 MHz

Peak (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3980.000000     | 42.60      | 134.90   | 44.80                  | -2.2                  | HORIZONTAL   | PASSED |
| 7960.000000     | 48.30      | 260.02   | 42.50                  | 5.8                   | HORIZONTAL   | PASSED |

Average (RBW: 1 MHz)

| Frequency [MHz] | E [dBμV/m] | E [μV/m] | U <sub>RX</sub> [dBμV] | A <sub>TOT</sub> [dB] | Polarisation | Result |
|-----------------|------------|----------|------------------------|-----------------------|--------------|--------|
| 3980.000000     | 29.70      | 30.55    | 31.90                  | -2.2                  | HORIZONTAL   | PASSED |
| 7960.000000     | 35.40      | 58.88    | 29.60                  | 5.8                   | HORIZONTAL   | PASSED |

### 3. Test Equipment

#### 3.1. Conducted measurements

| Eq. No | Equipment                          | Type            | Manufacturer            | Used in            |
|--------|------------------------------------|-----------------|-------------------------|--------------------|
| 1742   | EMI Test Receiver                  | ESMI            | R&S                     | 15C, 15B           |
| 1759   | LISN 50 µH                         | ESH3-Z5         | R&S                     | 15C, 15B           |
| 1872   | Thermo- Hygrograph                 | 00.02520.150700 | Lambrecht               | 15C, 15B           |
| 1916   | Radio Communication tester         | CMTA84          | R&S                     | 15C, 15B           |
| 2039   | Power Supply                       | PL330QMD        | THURLBY                 | 15C, 15B           |
| 2060   | LISN 50 µH                         | ESH3-Z5         | R&S                     | 15C, 15B           |
| 2068   | CDN-Antenna line                   | S1              | NMP                     | 15C, 15B           |
| 2097   | Pulse Limiter                      | ESH3-Z2         | R&S                     | 15C, 15B           |
| 2111   | Multimeter                         | TX3             | Tektronix               | 15C, 15B           |
| 2156   | Digital Radio Communication Tester | CMU200          | R&S                     | 15C, 15B           |
| 2206   | Signal generator                   | SMX             | R&S                     | 15C, 15B           |
| 2335   | GPIO Switch 2 to 1                 | -               | National Instruments    | 15C, 15B           |
| 2347   | Digital Radio Communication Tester | CMU200          | R&S                     | 22/24/27, 15C, 15B |
| 2352   | Spectrum Analyzer                  | FSP             | R&S                     | 22/24/27, 15C      |
| 2359   | Temperature Test system            | VT4002          | Vötsch Industrietechnik | 22/24/27           |
| 2360   | Serial Bus Converter               | Serial 488A     | IO Tech                 | 22/24/27           |
| 2362   | Power Supply                       | NGPX 70/5       | R&S                     | 22/24/27           |
| 2388   | Bluetooth Tester                   | CBT             | R&S                     | 15C, 15B           |
| -      | RF Emission Software               | ES-K1 v.1.71    | R&S                     | 22/24/27, 15C, 15B |

#### 3.2. Radiated measurements

| Eq. No | Equipment                           | Type                   | Manufacturer | Used in            |
|--------|-------------------------------------|------------------------|--------------|--------------------|
| 1748   | Log. per. Antenna                   | HL025                  | R&S          | 22/24/27, 15C      |
| 1749   | Log. per. Antenna                   | HL025                  | R&S          | 22/24/27, 15C      |
| 1875   | Thermo- Hygrograph                  | 00.02520.150700        | Lambrecht    | 22/24/27, 15C, 15B |
| 1917   | Radio Communication tester          | CMTA84                 | R&S          | 22/24/27, 15C, 15B |
| 1933   | Precision half-wave dipole antennas | HZ-13                  | R&S          | 22/24/27, 15C      |
| 1938   | Precision half-wave dipole antennas | HZ-12                  | R&S          | 22/24/27, 15C      |
| 2006   | Radiation Reference Source          | VSQ                    | MEB          | 22/24/27, 15C, 15B |
| 2009   | Signal generator                    | SMP 22                 | R&S          | 22/24/27, 15C, 15B |
| 2019   | Multimeter                          | 34401A                 | HP           | 22/24/27, 15C, 15B |
| 2027   | Coupling and Decoupling Network     | M2 (modified) DC1      | MEB          | 22/24/27, 15C, 15B |
| 2028   | Coupling and Decoupling Network     | M3 (modified) DC2      | MEB          | 22/24/27, 15C, 15B |
| 2029   | Power Supply                        | PL330                  | THURLBY      | 22/24/27, 15C, 15B |
| 2043   | Band Reject Filter                  | WRCA824/849-0.2-6SS    | Wainwright   | 22, 15C, 15B       |
| 2047   | Band Reject Filter                  | WRCC1800/2000-0.2-10SS | Wainwright   | 24, 15C, 15B       |
| 2048   | Band Reject Filter                  | WRCC1700/1800-0.2-10SS | Wainwright   | 27, 15C, 15B       |
| 2051   | High Pass Filter                    | 4HC1700-1-KK           | R&S          | 22/24/27, 15C      |
| 2057   | Log. per. Antenna                   | HL025                  | R&S          | 22/24/27, 15C      |
| 2109   | Power Supply                        | PL330QMD               | THURLBY      | 22/24/27, 15C, 15B |
| 2110   | Multimeter                          | 34401A                 | HP           | 22/24/27, 15C, 15B |
| 2112   | Multimeter                          | TX3                    | Tektronix    | 22/24/27, 15C, 15B |
| 2116   | Controller                          | EMCO MODEL 2090        | ETS          | 22/24/27, 15C, 15B |
| 2133   | Power Meter                         | NRVS                   | R&S          | 22/24/27, 15C      |
| 2134   | Power Sensor                        | NRV-Z32                | R&S          | 22/24/27, 15C      |
| 2135   | Coupling and Decoupling Network     | CDN 801-M3             | LÜTHI        | 22/24/27, 15C, 15B |



| Eq. No | Equipment                          | Type                               | Manufacturer         | Used in            |
|--------|------------------------------------|------------------------------------|----------------------|--------------------|
| 2138   | Ultra Broadband Antenna            | HL562                              | R&S                  | 22/24/27, 15C, 15B |
| 2140   | Biconical Antenna                  | EMCO93110B                         | EMCO                 | 22/24/27, 15C      |
| 2142   | Log.-per.-dipol Antenna            | 3146                               | EMCO                 | 22/24/27, 15C      |
| 2144   | Attenuator                         | 6803.17B                           | Huber-Suhner         | 22/24/27, 15C, 15B |
| 2150   | High Pass Filter                   | F-15041                            | RLC ELECTRONICS      | 22/24/27, 15C      |
| 2176   | Coupling and Decoupling Network    | CDN 801-M3                         | LÜTHI                | 22/24/27, 15C, 15B |
| 2180   | Digital Radio Communication Tester | CMU200                             | R&S                  | 22/24/27, 15C, 15B |
| 2188   | Preamplifier                       | AFS4-00100300-20-23P-6             | MITEQ                | 22/24/27, 15C, 15B |
| 2330   | EMI Test receiver                  | ESIB26                             | R&S                  | 22/24/27, 15C, 15B |
| 2334   | GPIB Switch 2 to 1                 | -                                  | National Instruments | 22/24/27, 15C, 15B |
| 2348   | Yaesu controller                   | G-1000DXC                          | YAESU                | 22/24/27, 15C, 15B |
| 2349   | Computer controller (Yaesu)        | GS-232B                            | YAESU                | 22/24/27, 15C, 15B |
| 2350   | Preamplifier                       | AMF-6D-020180-29-20P               | MITEQ                | 22/24/27, 15C      |
| 2361   | Anechoic chamber                   | 3 meter semi/full anechoic chamber | Euroshield           | 22/24/27, 15C, 15B |
| 2398   | Horn antenna                       | HF906                              | R&S                  | 22/24/27, 15C      |
| 2363   | Band Reject Filter                 | WRCG 832/838-825/845/5SS           | Wainwright           | 22/24/27           |
| 2364   | Band Reject Filter                 | WRCG1877/1883 - 1870/1890-40/6SS   | Wainwright           | 22/24/27           |
| 2365   | Relay Switch Unit                  | TS-RSP                             | R&S                  | 22/24/27, 15C, 15B |
| 2366   | Relay Switch Unit                  | TS-RSP                             | R&S                  | 22/24/27, 15C, 15B |
| 2384   | Band Reject Filter                 | WRCG832/838-825/845-40/5SS         | Wainwright           | 22/24/27           |
| 2388   | Bluetooth Tester                   | CBT                                | R&S                  | 15C, 15B           |
| -      | RF Emission Software               | ES-K1 v.1.71                       | R&S                  | 22/24/27, 15C, 15B |