

FCC Part 15B Compliance Test Report

Test Report no.:	Cph_FCC_0807_23.doc	Date of Report:	19-Feb-2008
Number of pages:	14	Customer's Contact person:	Victoria Abadilla
Testing laboratory:	TCC Nokia Copenhagen Laboratory Frederikskaj 1790 COPENHAGEN V DENMARK Tel. +45 33 292929 Fax. +45 33 292934	Customer:	Nokia Corporation 12278 Scripps Summit Drive SAN DIEGO CA. 92131 USA Tel. +1 858 831 5000 Fax. +1 858 831 6500
FCC listing no.:	99059		
IC recognition no.:	661AD-1		
Tested devices/ accessories:	Phone, RM-324 (HW 3100), Battery; BP-4L, AC Charger; AC-4, Headset; HS-9, Data Cable; CA-101, Laptop; T-43		
FCC ID:	QMNRM-324H	IC:	661X-RM324
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 and IC standards RSS-132 (Issue 2, September 2005), RSS-133 (Issue 3, June 2005) 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:			

Allan F. Henriksen, Engineer

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	21-Jan-2008
Testing completed	18-Feb-2008
The customer's contact person	Victoria Abadilla
Test Plan referred to	T:\Projects\RM-324\TestPlan_RS\RS_Testplan_RM-324.xls
Notes	None
Document name	T:\Projects\RM-324\EMC\Results\FCC\Cph_FCC_0807_23.doc

1.1. EUT and Accessory Information

The EUT is a 6-band (GSM850/900/1800/1900 and WCDMA Band 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-324	004401/01/379296/1	3100	-	QS_02.14	27112
Battery	BP-4L	3932137314130266365;0670519	-	-	-	27101
AC Charger	AC-4E	4090495501560100163;0675384	-	-	-	29253
Headset	HS-9	-	-	-	-	29261
Laptop	T-43	L3FLF78	-	-	-	29203
Data Cable	CA-101	0730634730401306286	-	-	-	27111

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	Passed
15.109, a	5.5 (6.6)	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	Passed
15.109, a	5.5 (9)	Radiated emissions	Passed

Bluetooth:

Section in CFR 47	Section in ICES-003	Name of the test	Result
15.107, a	5.3	AC powerline conducted emissions	Passed
15.109, a	5.5	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 Copenhagen Laboratory.

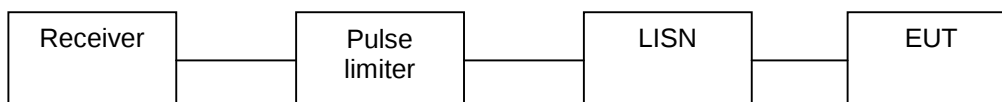
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2. AC powerline conducted emissions (FCC §15.107, ICES-003 section 5.3)

EUT with DUT number	RM-324 DUT 27112
Accessories with DUT numbers	BP-4L DUT 27101, AC-4E DUT 29253, HS-9 DUT 29261, CA-101 DUT 27111, T-43 DUT 29203
Operation Voltage [V] / [Hz]	115 / 60
Result	Passed
Remarks	Continuous data transfer was active between the phone and the computer during the test.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21.7 / 37.5 102.7
Date of measurements	18-Feb-2008
Measured by	Allan F. Henriksen

2.1. Test setup



2.2. Test method and limit

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

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

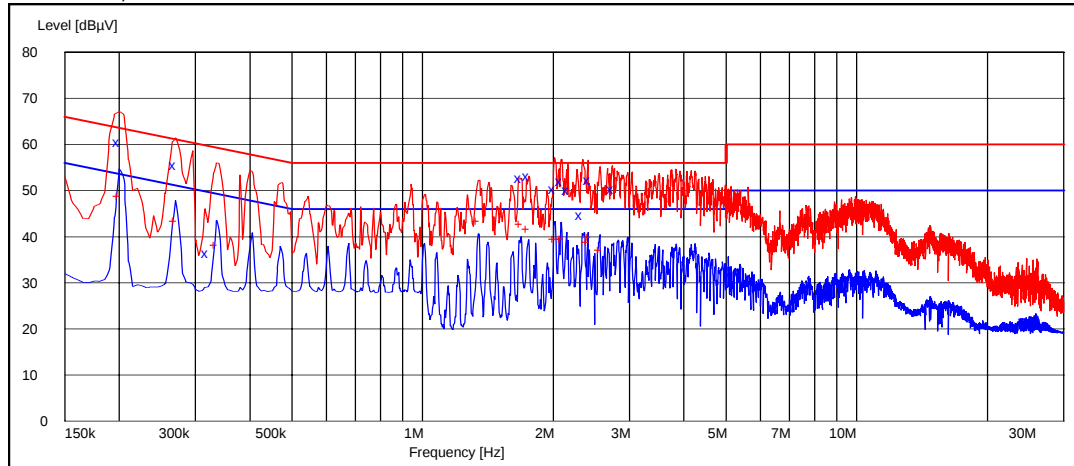
Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable and pulse limiter attenuations.

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

2.3. GSM 850 Test results

RX mode, channel 190 / 881.6 MHz



Quasi peak (RBW: 9 kHz)

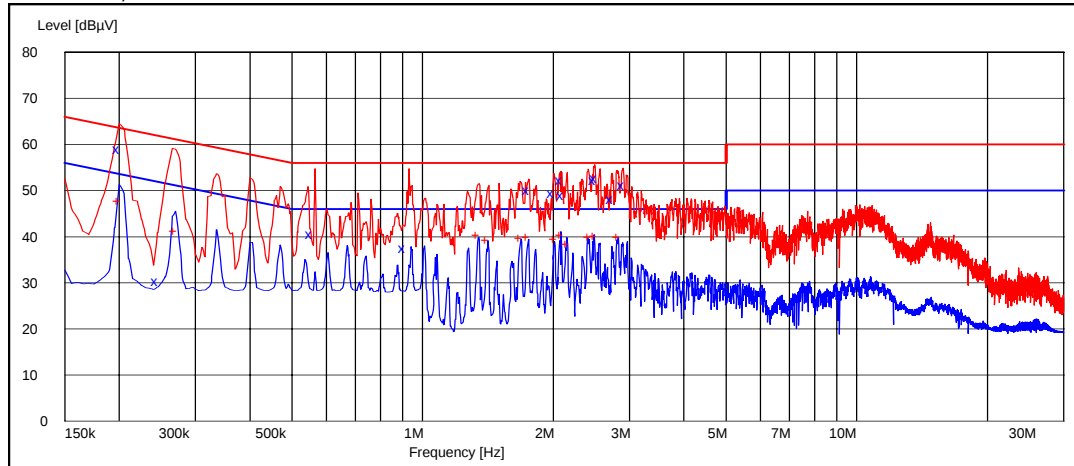
Frequency [MHz]	U [dBμV]	Line	Result
0.200000	60.40	L1	Passed
0.270000	55.50	L1	Passed
0.320000	36.40	L1	Passed
1.680000	52.70	N	Passed
1.755000	53.20	N	Passed
2.020000	50.40	N	Passed
2.095000	52.10	N	Passed
2.165000	50.00	N	Passed
2.325000	44.60	N	Passed
2.430000	52.20	N	Passed
2.745000	50.40	N	Passed

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.200000	48.80	L1	Passed
0.270000	43.40	L1	Passed
0.335000	38.20	L1	Passed
1.345000	43.30	N	Passed
1.685000	42.80	N	Passed
1.750000	41.60	N	Passed
2.020000	39.50	N	Passed
2.090000	39.50	N	Passed
2.100000	39.40	N	Passed
2.410000	38.90	N	Passed
2.425000	39.80	N	Passed
2.570000	37.00	N	Passed

2.4. GSM 1900 Test results

RX mode, channel 661 / 1960.0 MHz



Quasi peak (RBW: 9 kHz)

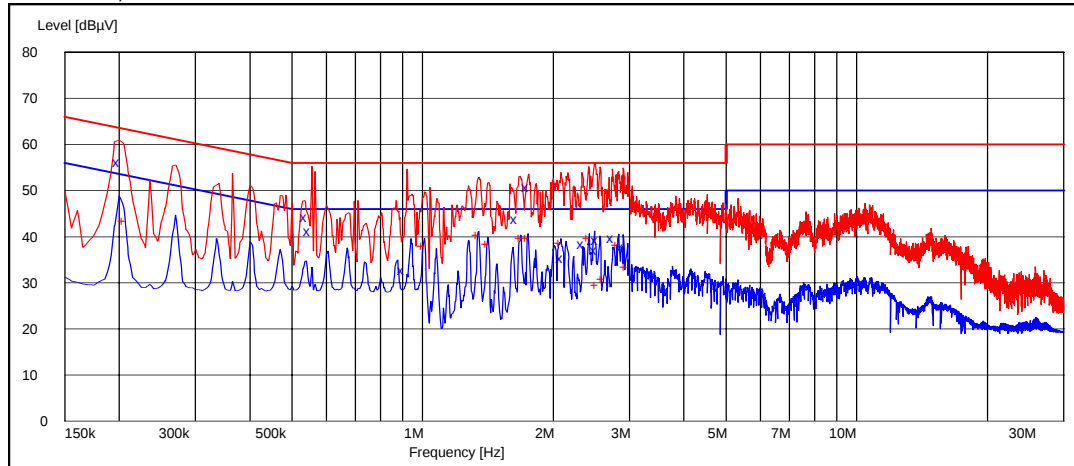
Frequency [MHz]	U [dBμV]	Line	Result
0.200000	59.00	L1	Passed
0.245000	30.40	L1	Passed
0.555000	40.60	L1	Passed
0.910000	37.60	N	Passed
1.755000	50.10	N	Passed
2.000000	49.40	N	Passed
2.095000	52.20	N	Passed
2.105000	49.10	N	Passed
2.500000	52.30	N	Passed
2.510000	52.70	N	Passed
2.735000	48.10	N	Passed
2.905000	51.30	N	Passed

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.200000	47.80	L1	Passed
0.270000	41.30	L1	Passed
1.345000	40.30	N	Passed
1.410000	39.20	N	Passed
1.680000	39.70	N	Passed
1.750000	39.80	N	Passed
2.025000	39.50	N	Passed
2.095000	40.40	N	Passed
2.160000	38.40	N	Passed
2.430000	40.00	N	Passed
2.500000	40.20	N	Passed
2.835000	39.80	N	Passed

2.5. Bluetooth Test results

TX mode, channel 40 / 2442 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.200000	56.20	L1	Passed
0.540000	44.30	L1	Passed
0.550000	41.20	L1	Passed
0.905000	32.80	L1	Passed
1.650000	43.70	N	Passed
1.750000	50.70	N	Passed
2.100000	35.50	L1	Passed
2.350000	38.40	N	Passed
2.510000	37.10	N	Passed
2.530000	39.20	N	Passed
2.745000	39.60	N	Passed
2.900000	37.70	N	Passed

Average (RBW: 9 kHz)

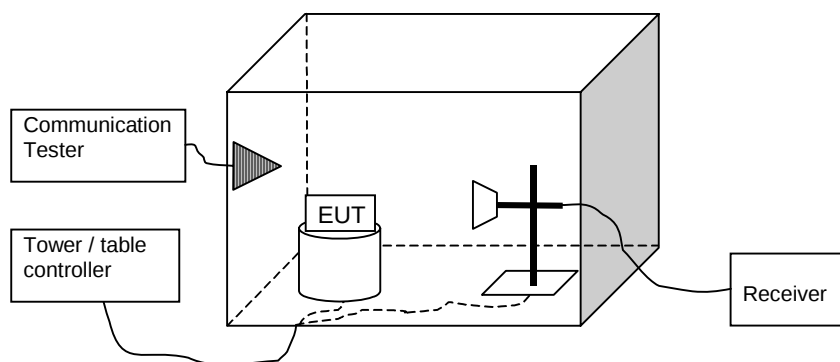
Frequency [MHz]	U [dBμV]	Line	Result
0.205000	43.40	L1	Passed
1.005000	38.00	N	Passed
1.345000	40.30	N	Passed
1.415000	38.50	N	Passed
1.685000	39.60	N	Passed
1.745000	39.70	N	Passed
2.085000	38.60	N	Passed
2.415000	39.60	N	Passed
2.520000	29.50	L1	Passed
2.610000	30.80	N	Passed
2.815000	38.20	N	Passed
2.950000	33.30	N	Passed

3. Radiated emissions

(FCC §15.109, ICES-003 section 5.5, RSS-132 6.6, RSS-133 9)

EUT with DUT number	RM-324 DUT 27112
Accessories with DUT numbers	BP-4L DUT 27101, AC-4E DUT 29253, HS-9 DUT 29261, CA-101 DUT 27111, T-43 DUT 29203
Operation Voltage [V] / [Hz]	115 / 60
Result	Passed
Remarks	Continuous data transfer was active between the phone and the computer during the test.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21.3 / 40.1 / 103.2
Date of measurements	15-Feb-2008
Measured by	Christian Andersen

3.1. Test setup



3.2. 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

3.3. GSM 850 Test results

RX mode, channel 128 / 869.2 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	37.00	70.79	39.20	-2.2	VERTICAL	Passed
6953.600000	44.00	158.49	37.90	6.1	HORIZONTAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	23.70	15.31	25.90	-2.2	VERTICAL	Passed
6953.600000	31.20	36.31	25.10	6.1	VERTICAL	Passed

RX mode, channel 190 / 881.6 MHz

Quasi peak (RBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
46.671743	20.60	10.72	44.30	-23.7	VERTICAL	Passed
881.563527	62.10	1273.50	74.00	-11.9	VERTICAL	Passed

*881.56 MHz frequency is coming from communication tester and thus ignored.

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1592.678357	30.20	32.36	34.60	-4.4	VERTICAL	Passed
1616.732465	35.90	62.37	39.80	-3.9	VERTICAL	Passed
2296.089178	32.10	40.27	32.20	-0.1	VERTICAL	Passed
2984.467936	34.70	54.33	29.00	5.7	HORIZONTAL	Passed

RX mode, channel 251 / 893.8 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3575.200000	36.60	67.61	38.40	-1.8	VERTICAL	Passed
7150.400000	39.90	98.86	32.90	7.0	HORIZONTAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3575.200000	23.50	14.96	25.30	-1.8	VERTICAL	Passed
7150.400000	27.60	23.99	20.60	7.0	VERTICAL	Passed

3.4. GSM 1900 Test results

RX mode, channel 512 / 1930.2 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3860.000000	38.20	81.28	38.50	-0.3	VERTICAL	Passed
7720.000000	41.40	117.49	32.90	8.5	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3860.000000	25.80	19.50	26.10	-0.3	VERTICAL	Passed
7720.000000	28.60	26.92	20.10	8.5	VERTICAL	Passed

RX mode, channel 661 / 1960.0 MHz

Quasi peak (RBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
31.502405	16.20	6.46	30.00	-13.8	VERTICAL	Passed
37.954910	15.50	5.96	33.40	-17.9	VERTICAL	Passed
50.659920	18.50	8.41	45.00	-26.5	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
1959.919840	60.10	1011.58	62.70	-2.6	VERTICAL	Passed

*1960.0 MHz frequency is coming from communication tester and thus ignored.

Average (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
1591.678357	28.40	26.30	32.80	-4.4	VERTICAL	Passed
1616.232465	29.20	28.84	33.10	-3.9	HORIZONTAL	Passed
1959.919840	59.60	954.99	62.20	-2.6	VERTICAL	Passed
2295.089178	36.70	68.39	36.70	0.0	VERTICAL	Passed
2984.467936	34.90	55.59	29.20	5.7	HORIZONTAL	Passed

RX mode, channel 810 / 1989.8 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
3980.000000	37.60	75.86	38.00	-0.4	HORIZONTAL	Passed
7960.000000	41.90	124.45	32.80	9.1	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
3980.000000	25.40	18.62	25.80	-0.4	VERTICAL	Passed
7960.000000	28.90	27.86	19.80	9.1	VERTICAL	Passed

3.5. Bluetooth Test results

TX mode, channel 0 / 2402 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4804.000000	36.00	63.10	35.30	0.7	VERTICAL	Passed
7206.000000	40.30	103.51	33.20	7.1	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4804.000000	23.40	14.79	22.70	0.7	VERTICAL	Passed
7206.000000	27.30	23.17	20.20	7.1	VERTICAL	Passed

TX mode, channel 40 / 2442 MHz

Quasi peak (RBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
125.111423	23.20	14.45	48.40	-25.2	VERTICAL	Passed
150.000000	26.30	20.65	53.00	-26.7	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
4944.393788	37.10	71.61	35.90	1.2	VERTICAL	Passed
4947.391784	36.80	69.18	35.60	1.2	VERTICAL	Passed
7330.153307	41.40	117.49	34.00	7.4	VERTICAL	Passed
7420.333667	42.10	127.35	34.10	8.0	VERTICAL	Passed
7433.863727	42.40	131.83	34.40	8.0	VERTICAL	Passed
17490.487976	53.70	484.17	29.80	23.9	VERTICAL	Passed
17862.717435	59.70	966.05	30.70	29.0	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4946.391784	24.50	16.79	23.30	1.2	VERTICAL	Passed
4948.893788	24.60	16.98	23.40	1.2	VERTICAL	Passed
7328.153307	28.30	26.00	21.00	7.3	VERTICAL	Passed
7417.833667	29.10	28.51	21.00	8.1	VERTICAL	Passed
7428.863727	29.10	28.51	21.20	7.9	VERTICAL	Passed
17493.487976	40.10	101.16	16.10	24.0	VERTICAL	Passed
17859.717435	46.70	216.27	17.70	29.0	VERTICAL	Passed

TX mode, channel 78 / 2480 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.000000	37.20	72.44	35.90	1.3	VERTICAL	Passed
7440.000000	42.30	130.32	34.10	8.2	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.000000	24.80	17.38	23.50	1.3	VERTICAL	Passed
7440.000000	28.80	27.54	20.60	8.2	VERTICAL	Passed

4. Test Equipment

4.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
13037	Power Supply 0-15V 10A	EA3012	LP Instruments	15C, 15B
13513	Pulse Limiter 9KHz-30MHz	ESH3Z2	Rohde&Schwarz	15C, 15B
13666	EMI Test Reciever 9KHz-2,5GHz	ESPC	Rohde&Schwarz	15C, 15B
13935	Two Lines Artificial Mains Network	ESH3-Z5	Rohde&Schwarz	15C, 15B
16995	Directional Coupler 20dB 0,5-2,0 GHz SMA Conn.	1538RA-20	Weinschel	15C, 15B
18772	Shielded Chamber	RFD-100	ETS-Lindgren	15C, 15B
19171	Universal Radio Communication Tester	CMU200	Rohde&Schwarz	15C, 15B
11386	System DC Power Supply	HP6632A	Hewlett Packard	22/24/27, 15C, 15B
19678	Spectrum Analyzer 26 GHz	FSP	Rohde&Schwarz	22/24/27, 15C, 15B
16601	Universal Radio Communication Tester	CMU200	Rohde&Schwarz	22/24/27, 15C, 15B
19625	Vötsch Climatic Chamber	VT4002EMC	Vötsch	22/24/27, 15C, 15B
13357	Rohde & Schwartz Signal Generator	SMP02	Rohde&Schwarz	22/24/27, 15C, 15B
20168	Bluetooth EDR Tester	CBT	Rohde&Schwarz	22/24/27, 15C, 15B

4.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
18416	Universal Radio Communication Tester	CMU200	Rohde&Schwarz	22/24/27, 15C, 15B
	Programmable Relay Switching System	-----	Pickering	22/24/27, 15C, 15B
15742	Programmable Relay Switching System	-----	Pickering	22/24/27, 15C, 15B
14020	Power Supply Module Relay Switching System 45W	10-910-002	Pickering	22/24/27, 15C, 15B
15743	Power Supply Module Relay Switching System 50W	10-910L-001	Pickering	22/24/27, 15C, 15B
16490	RS-232/IEEE-488.2 Interface	10-921-001	Pickering	22/24/27, 15C, 15B
	RS-232/IEEE-488.2 Interface	10-921-001	Pickering	22/24/27, 15C, 15B
20078	Relay 2x6 Chnl μ Wave Mux	10-785B-522	Pickering	22/24/27, 15C, 15B
14021	Relay Dual 6 Chnl μ Wave Mux	10-785-522		22/24/27, 15C, 15B
	Relay Dual 6 Chnl μ Wave Mux	10-785-522		22/24/27, 15C, 15B
17644	Dual 6 Channel MUX Microwave Relay SMA 50 Ohm	10-785-522	Pickering	22/24/27, 15C, 15B
16948	Dual 6 Channel MUX Microwave Relay SMA 50 Ohm	10-785-522	Pickering	22/24/27, 15C, 15B
16949	Dual 6 Channel MUX Microwave Relay SMA 50 Ohm	10-785-522	Pickering	22/24/27, 15C, 15B
18792	Multi Device Controller	2090	ETS-EMCO	22/24/27, 15C, 15B
14963	RF Preamplifier 100MHz-4GHz (Metal Chassis)	AFS3-00100400	Miteq/NMP Cph	22/24/27, 15C, 15B
18861	EMI Test Receiver 20Hz-26,5GHz	ESI	Rohde&Schwarz	22/24/27, 15C, 15B
20335	Ultra Broadband Antenna Ultralog 30-3000MHz	HL562	Rohde&Schwarz	22/24/27, 15C, 15B
18773	Shielded Chamber	RFD-100	ETS-Lindgren	22/24/27, 15C, 15B
18774	Shielded Chamber	RFSD-F/A-100	ETS-Lindgren	22/24/27, 15C, 15B
19151	High Pass Filter 3GHz	WHJS3000-10SS	Wainwright	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
	WHK3.0/18G-10ss			
13937	Ultra Stable Notch Filter 850MHz	WRCA902.4-0.2/40-6SS	Wainwright Instruments	22/24/27, 15C, 15B
13936	Ultra Stable Notch Filter 1747,5MHz	WRCD1747.5-0.2/40-10SS	Wainwright Instruments	22/24/27, 15C, 15B
14114	Highpass filter	WHK1000-12SS	Wainwright Instruments	22/24/27, 15C, 15B
14188	Ultra Stable Notch Filter 902,4MHz	WRCA902.4-0.2/40-6SS	Wainwright	22/24/27, 15C, 15B
14187	Ultra Stable Notch Filter 1747,5MHz	WRCD1747.5-0.2/40-10SS	Wainwright	22/24/27, 15C, 15B
16633	Ultra Stable Notch Filter 1880,0MHz	WRCD1880.0-0.2/40-10SS	Wainwright	22/24/27, 15C, 15B
19587	BT/WLAN Band Reject Filter	WRCG2400/2483-2390/2493-35/10SS	Wainwright	22/24/27, 15C, 15B
20115	WDCMA Band 2 filter		Wainwright	24, 15C, 15B
20114	WDCMA Band 4 filter	WRCG1737/1743-1733/1747-40/6SS	Wainwright	27, 15C, 15B
20116	WDCMA Band 5&6 filter	WRCG832/83/-825/845-40/5SS	Wainwright	22, 15C, 15B
18323	Band reject filter 1947-1953MHz 40dB	WRCG1947/1953-1940/1960-40/6SS	Wainwright	22/24/27, 15C, 15B
20031	Double Ridged Broadband Horn	BBHA 9120 D	SCHWARZBECK	22/24/27, 15C, 15B
19966	Magnetic Loop Antenna 9 kHz - 30 MHz	HFH2-Z2	Rohde&Schwarz	15C, 15B
14993	EMI Test Receiver 9KHz-2750MHz	ESCS30	Rohde&Schwarz	22/24/27, 15C, 15B
15191	Turntable Contoller Unit	G-800SDX	YAESU	22/24/27, 15C, 15B
14900	Antenna Controller	HD100	HD GmbH	22/24/27, 15C, 15B
19374	Resonant Dipole Antenna 850MHz SMA m Conn.	-----	NMP Cph	22/24/27, 15C, 15B
19375	Resonant Dipole Antenna 1900MHz SMA m Conn.	-----	NMP Cph	22/24/27, 15C, 15B
20168	Bluetooth EDR Tester	CBT	Rohde&Schwarz	22/24/27, 15C, 15B