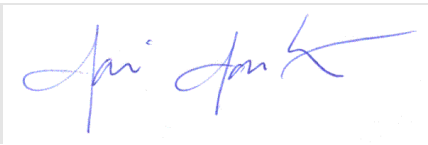
FCC Part 15B Compliance Test Report

Test Report no.:	Tre_FCC_0708_03.doc	**Date of Report:**	27.2.2007
Number of pages:	14	**Customer's Contact person:**	Sonja Perälä
Testing laboratory:	TCC Nokia Tampere Laboratory P.O. Box 68 Sinitaival 5 FIN-33720 TAMPERE, FINLAND Tel. +358 (0) 7180 46800 Fax. +358 (0) 7180 46880	**Customer:**	Nokia Corporation P.O. Box 50 Elektroniikkatie 10 FIN-90571 OULU, FINLAND Tel. +358 (0) 7180 08000 Fax. +358 (0) 7180 47222
FCC listing no.: **IC recognition no.:**	94436 3608		
Tested devices/ accessories:	**GSM phone RM-122 / Battery BP-5M, AC charger AC-4, Headset HS-42, Data cable DKU-2, Laptop IBM Thinkpad T22, AC adapter 02K6543, Printer HP deskjet 1600CC3540A, Digital camera FUJI DS-7, Serial cable for camera, Parallel cable for printer**		
FCC ID:	LJPRM-122	**IC:**	661E-RM122
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, RSS-133 and RSS-210. 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:	 Digitally signed by Jari Jantunen Date: 2007.02.27 12:50:41 +02'00'		

Jari Jantunen, System Manager

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	19.2.2007
Testing completed	22.2.2007
The customer's contact person	Sonja Perälä
Test Plan referred to	\EMC\TESTPLAN\
Notes	
Document name	T:\Projects\RM-122\EMC\Results\FCC\Tre_FCC_0708_03.doc

1.1. EUT and Accessory Information

The EUT is a 5-band (GSM850/900/1800/1900 and WCDMA Band I) mobile phone with GPRS, EGPRS and Bluetooth. GSM bands are tested in idle mode. Bluetooth is tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
GSM phone	RM-122	004400791633371	1520	-	2.09	**40964**
Battery	BP-5M	-	-	-	-	**40966**
AC Charger	AC-4	-	-	-	-	**40968**
Headset	HS-42	375	0.9	0.6	0.4	**40970**
Data cable	DKE-2	-	-	-	-	**40973**
Laptop	IBM Thinkpad T22	555V2PT	-	-	-	**40201**
AC Adapter	02K6543	-	-	-		**40202**
Printer	HP deskjet 1600CC3540A	USB8302546	-	-	-	**40077**
Digital camera	FUJI DS-7	7102516	-	-	-	**40076**
Serial cable for camera	-	-	-	-	-	**40088**
Parallel cable for printer	-	-	-	-	-	**40087**

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 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 Tampere Laboratory.

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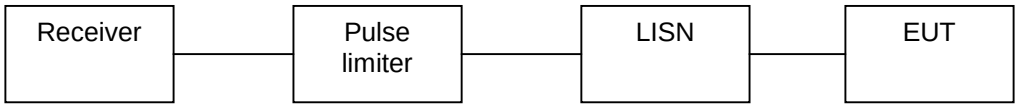
2. AC powerline conducted emissions

(FCC §15.107, ICES-003 section 5.3)

EUT with DUT number	RM-122 DUT 40964
Accessories with DUT numbers	BP-6M DUT 40966, AC-4 DUT 40968, HS-42 DUT 40970, DKE-2 DUT 40973, IBM Thinkpad T22 DUT 40201, 02K6543 DUT 40202, HP deskjet 1600CC3540A DUT 40077, FUJI DS-7 DUT 40076, Serial cable for camera DUT 40088, Parallel cable for printer DUT 40087
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]	19 / 51 / 101.3
Date of measurements	19.2.2007
Measured by	Jari Jantunen

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

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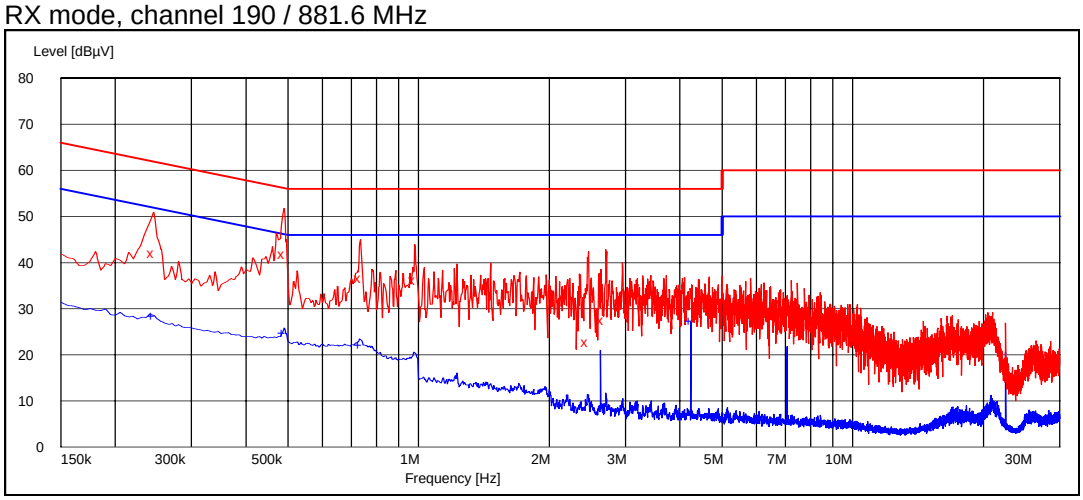
2.3. GSM 850 Test results

RX mode, channel 190 / 881.6 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBµV]	Line	Result
0.245000	42.00	N	PASSED
0.490000	41.90	N	PASSED
0.735000	36.70	N	PASSED
0.980000	36.20	N	PASSED
2.450000	22.70	N	PASSED
2.660000	27.50	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBµV]	Line	Result
0.245000	28.50	L1	PASSED
0.490000	24.70	L1	PASSED
0.735000	22.20	L1	PASSED
4.240000	27.40	L1	PASSED

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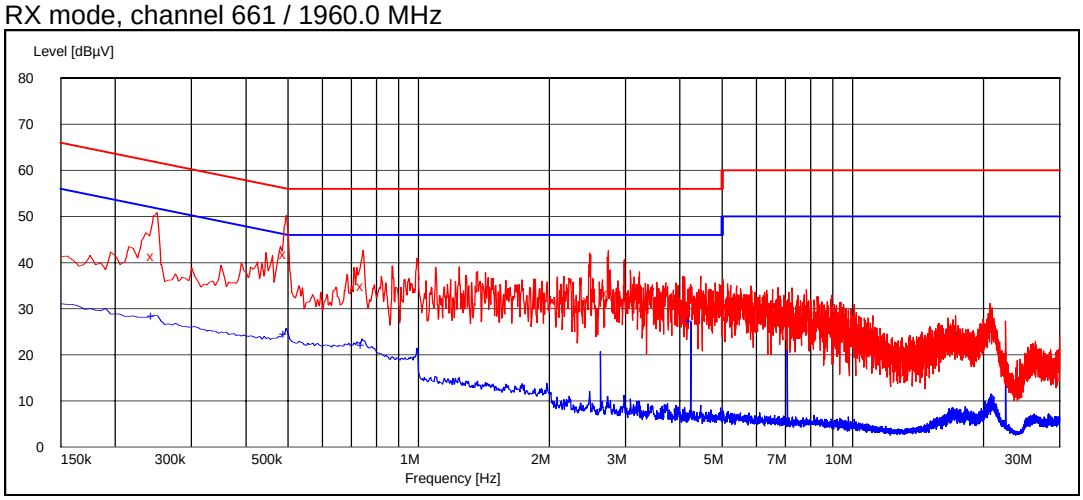
2.4. GSM 1900 Test results

RX mode, channel 661 / 1960.0 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBµV]	Line	Result
0.245000	41.50	N	PASSED
0.495000	41.90	N	PASSED
0.745000	34.90	N	PASSED
2.480000	31.80	N	PASSED
2.725000	33.30	N	PASSED
2.970000	30.90	N	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBµV]	Line	Result
0.245000	28.30	L1	PASSED
0.495000	24.50	L1	PASSED
0.745000	22.10	L1	PASSED
4.240000	27.20	L1	PASSED

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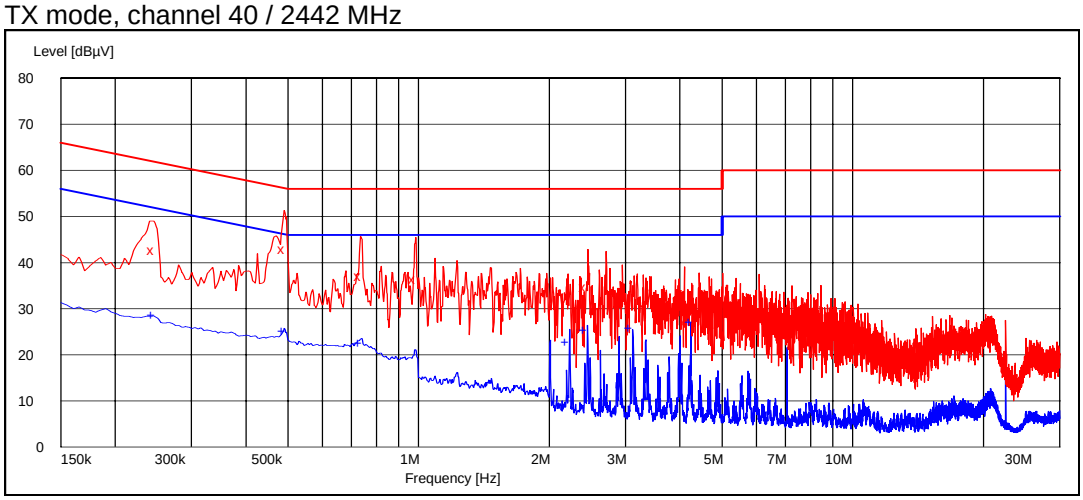
2.5. Bluetooth Test results

TX mode, channel 40 / 2442 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBµV]	Line	Result
0.245000	42.80	N	PASSED
0.490000	43.00	N	PASSED
0.735000	37.10	N	PASSED
0.980000	36.40	N	PASSED
2.425000	34.70	N	PASSED
4.145000	27.10	N	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBµV]	Line	Result
0.245000	28.70	L1	PASSED
0.490000	25.10	L1	PASSED
0.735000	22.50	L1	PASSED
2.205000	22.80	N	PASSED
2.425000	25.30	N	PASSED
3.085000	25.90	N	PASSED
4.240000	27.00	L1	PASSED

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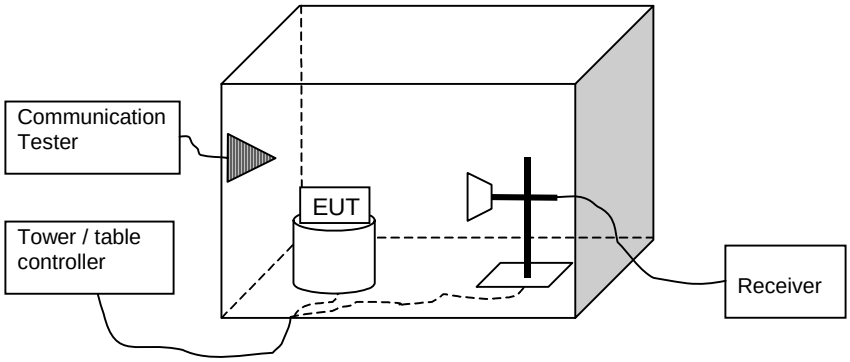
3. Radiated emissions

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

EUT with DUT number	RM-122 DUT 40964
Accessories with DUT numbers	BP-6M DUT 40966, AC-4 DUT 40968, HS-42 DUT 40970, DKE-2 DUT 40973, IBM Thinkpad T22 DUT 40201, 02K6543 DUT 40202, HP deskjet 1600CC3540A DUT 40077, FUJI DS-7 DUT 40076, Serial cable for camera DUT 40088, Parallel cable for printer DUT 40087
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]	25-26 / 42-43 / 102.5-103.3
Date of measurements	21-22.2.2007
Measured by	Jari Jantunen

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.

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

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	39.50	94.41	44.60	-5.10	HORIZONTAL	PASSED
6953.600000	43.20	144.54	42.30	0.90	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
3476.800000	26.00	19.95	31.10	-5.10	HORIZONTAL	PASSED
6953.600000	30.30	32.73	29.40	0.90	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
648.094589	33.40	46.77	58.30	-24.90	VERTICAL	PASSED
697.696794	38.30	82.22	62.40	-24.10	VERTICAL	PASSED
776.653106	29.50	29.85	52.70	-23.20	HORIZONTAL	PASSED

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
3526.400000	39.50	94.41	44.30	-4.80	HORIZONTAL	PASSED
7052.800000	41.00	112.20	40.20	0.80	HORIZONTAL	PASSED

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Average (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
3526.400000	26.40	20.89	31.20	-4.80	HORIZONTAL	PASSED
7052.800000	28.50	26.61	27.70	0.80	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	39.30	92.26	43.90	-4.60	HORIZONTAL	PASSED
7150.400000	40.70	108.39	39.20	1.50	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
3575.200000	26.90	22.13	31.50	-4.60	HORIZONTAL	PASSED
7150.400000	28.40	26.30	26.90	1.50	HORIZONTAL	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	40.80	109.65	43.20	-2.40	HORIZONTAL	PASSED
7720.000000	43.10	142.89	40.40	2.70	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
3860.000000	27.70	24.27	30.10	-2.40	HORIZONTAL	PASSED
7720.000000	29.70	30.55	27.00	2.70	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
49.959920	24.40	16.60	59.50	-35.10	VERTICAL	PASSED
349.099399	21.20	11.48	52.30	-31.10	HORIZONTAL	PASSED
448.597395	26.50	21.13	55.50	-29.00	VERTICAL	PASSED
647.394589	32.50	42.17	57.40	-24.90	VERTICAL	PASSED
755.209018	30.20	32.36	53.60	-23.40	HORIZONTAL	PASSED

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Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
1493.989980	55.20	575.44	71.90	-16.70	VERTICAL	PASSED
3920.000000	40.50	105.93	42.90	-2.40	VERTICAL	PASSED
7840.000000	42.90	139.64	40.10	2.80	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
1196.398798	25.90	19.72	45.20	-19.30	VERTICAL	PASSED
1236.466934	24.80	17.38	43.80	-19.00	VERTICAL	PASSED
1258.019038	27.10	22.65	45.80	-18.70	VERTICAL	PASSED
1493.489980	32.00	39.81	48.70	-16.70	VERTICAL	PASSED
1866.733467	31.20	36.31	44.30	-13.10	VERTICAL	PASSED
3920.000000	27.70	24.27	30.10	-2.40	HORIZONTAL	PASSED
7840.000000	29.70	30.55	26.90	2.80	HORIZONTAL	PASSED

RX mode, channel 810 / 1989.8 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
3980.000000	46.00	199.53	48.70	-2.70	HORIZONTAL	PASSED
7960.000000	42.60	134.90	39.50	3.10	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
3980.000000	29.70	30.55	32.40	-2.70	HORIZONTAL	PASSED
7960.000000	29.90	31.26	26.80	3.10	VERTICAL	PASSED

3.5. Bluetooth Test results

TX mode, channel 0 / 2402 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
4804.000000	39.40	93.33	41.10	-1.70	HORIZONTAL	PASSED
7206.000000	42.50	133.35	40.80	1.70	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
4804.000000	26.60	21.38	28.30	-1.70	HORIZONTAL	PASSED
7206.000000	28.70	27.23	27.00	1.70	HORIZONTAL	PASSED

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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
37.995391	7.30	2.32	18.60	-11.30	HORIZONTAL	PASSED

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
3981.459920	44.20	162.18	46.90	-2.70	VERTICAL	PASSED
4883.769539	48.10	254.10	49.70	-1.60	VERTICAL	PASSED
4884.267535	47.70	242.66	49.30	-1.60	VERTICAL	PASSED
7278.057114	42.90	139.64	40.50	2.40	HORIZONTAL	PASSED
7333.167335	42.80	138.04	40.50	2.30	VERTICAL	PASSED
7412.825651	43.20	144.54	40.40	2.80	HORIZONTAL	PASSED
7430.353707	42.50	133.35	39.80	2.70	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
3983.959920	28.70	27.23	31.40	-2.70	VERTICAL	PASSED
4883.767535	34.70	54.33	36.30	-1.60	VERTICAL	PASSED
4884.269539	33.40	46.77	35.00	-1.60	VERTICAL	PASSED
7282.557114	29.90	31.26	27.50	2.40	HORIZONTAL	PASSED
7337.167335	29.70	30.55	27.30	2.40	VERTICAL	PASSED
7413.325651	30.00	31.62	27.20	2.80	HORIZONTAL	PASSED
7425.853707	29.80	30.90	27.10	2.70	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	40.80	109.65	42.00	-1.20	HORIZONTAL	PASSED
7440.000000	43.30	146.22	40.60	2.70	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U_{RX} [dBµV]	A_{TOT} [dB]	Polarisation	Result
4960.000000	28.40	26.30	29.60	-1.20	VERTICAL	PASSED
7440.000000	29.80	30.90	27.10	2.70	VERTICAL	PASSED

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4. Test Equipment

4.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM37610	Spectrum analyzer	FSU	R&S	22/24, 15C
TM37678	Radio communication tester	CMU-200	R&S	22/24, 15C
	Attenuator 10 dB	6251.17.A	Huber+Suhner AG	22/24, 15C
TM37499	Power splitter	11667A	Agilent	22/24, 15C
	Temperature chamber	VT4002	Vötsch	22/24, 15C
TM38112	DC power supply	6632A	Agilent	22/24, 15C
TM38111	Multimeter	34401A	Agilent	22/24, 15C
	EMI Test receiver	ESPC	R&S	15C, 15B
TM37773	Radio communication tester	CMU-200	R&S	15C, 15B
TM38631	Signal generator	83640L	Agilent	15C, 15B
TM38114	DC power supply	6632A	Agilent	15C, 15B
TM22835	Multimeter	87	Fluke	15C, 15B
TM30600	Pulse Limiter	ESH3-Z2	R&S	15C, 15B
TM26490	LISN 50 µH	ESH3-Z5/	R&S	15C, 15B
TM30636	LISN 50 µH	L2-16/	PMM	15C, 15B

4.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM30599	3m semi-anechoic chamber		TDK	22/24, 15C, 15B
TM38845	EMI receiver	ESI 40	R&S	22/24, 15C, 15B
TM37498	Preamplifier	AMF-5D-020180-26-10P	MITEQ	22/24, 15C, 15B
TM37523	Preamplifier	AMF-4D-10M-3G-25-20P	MITEQ	22/24, 15C, 15B
TM37516	Biconilog antenna	HL562	R&S	22/24, 15C, 15B
TM26496	Double ridged waveguide antenna	3115	EMCO	22/24, 15C, 15B
TM39158	Horn antenna	3116	EMCO	22/24, 15C, 15B
TM26492	Reference dipole set	UHAP/VHAP	Schwarzbeck	22/24, 15C, 15B
TM37501	Dipole antenna	3125-870	EMCO	22/24
TM37502	Dipole antenna	3125-1880	EMCO	22/24
TM37773	Radio communication tester	CMU-200	R&S	22/24, 15C, 15B
TM38631	Signal generator	83640L	Agilent	22/24, 15C, 15B
TM38066	High pass filter	4HC3000/18000-3-KK	Trilithic	22/24, 15C, 15B
	High pass filter	WHK2010-10SS	Trilithic	22/24, 15C, 15B
	Low pass filter	WLK1750-10SS	Trilithic	22/24, 15C, 15B
TM26511	Tunable notch filter	WRCA870	Wainwright	22/24
TM38215	Tunable notch filter	WRCD1850/1910-0.2/40	Wainwright	22/24
TM38214	Band reject filter	WRCT 2402/2480-2400/2483.5-30	Wainwright	15C
TM30642	Turntable controller	HD-100	Deisel	22/24, 15C, 15B
TM26500	Turntable	DS412	Deisel	22/24, 15C, 15B
TM38842	Antenna mast controller	2090	EMCO	22/24, 15C, 15B
TM38843	Antenna mast	2075	EMCO	22/24, 15C, 15B
TM38114	DC power supply	6632A	Agilent	22/24, 15C, 15B
TM22835	Multimeter	87	Fluke	22/24, 15C, 15B

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