

FCC Part 15B Compliance Test Report

Test Report no.:	Salo_FCC_0729_09.doc	Date of Report:	26.07.2007
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FCC listing no.:	94436		
IC recognition no.:	3608		
Tested devices/ accessories:	GSM phone RM-179 / Battery BP-6MT, AC charger AC-5, Audio adapter AD-54, Headset HS-45, Data cable CA-101, 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:	OW3RM-223	IC:	661AA-RM223
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:			

Anni Manninen, System Manager

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	19.4.2007
Testing completed	26.4.2007
The customer's contact person	Marcus Göke
Test Plan referred to	T:\Projects\
Notes	-
Document name	T:\Projects\RM-223\EMC\Results\FCC\Salo_FCC_0729_09.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, Bluetooth and WLAN. GSM bands are tested in idle mode. Bluetooth is tested with maximum rated TX power and WLAN is tested in RX mode.

Product	Type	SN	HW	MV	SW	DUT
GSM phone	RM-179	004401011016165	0304	-	V01.0712.1.0.11	41057
Battery	BP-6MT	-	-	-	-	41059
AC-Charger	AC-5E	-	-	-	-	41061
Audio adapter	AD-54	45	0.5	1.5	0.1	41043
Headset	HS-45	-	-	-	-	41065
Data cable	CA-101	-	-	-	-	41066
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

WLAN:

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.

The test results of OW3RM-179 are re-used for certification of the OW3RM-223. The table above indicates the results, which will be re-used.

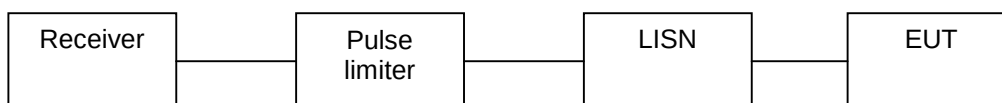
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2. AC powerline conducted emissions (FCC §15.107, ICES-003 section 5.3)

EUT with DUT number	RM-179 DUT 41057
Accessories with DUT numbers	BP-6MT DUT 41059, AC-5 DUT 41061, AD-54 DUT 41043, HS-45 DUT 41065, CA-101 DUT 41066, 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]	23 / 44 / 101.6
Date of measurements	23.4.2007
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:

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

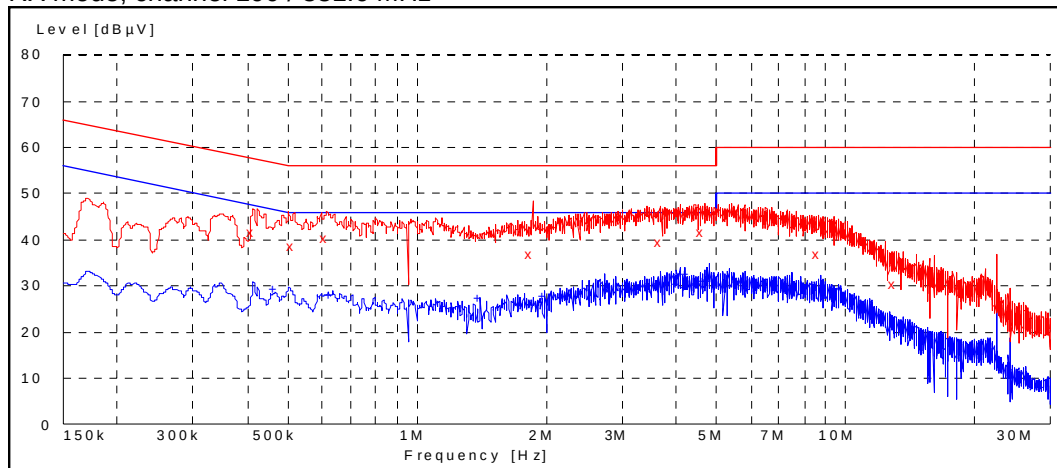
Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable and pulse limiter attenuations.

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

2.3. GSM 850 Test results

RX mode, channel 190 / 881.6 MHz



Quasi peak (RBW: 9 kHz)

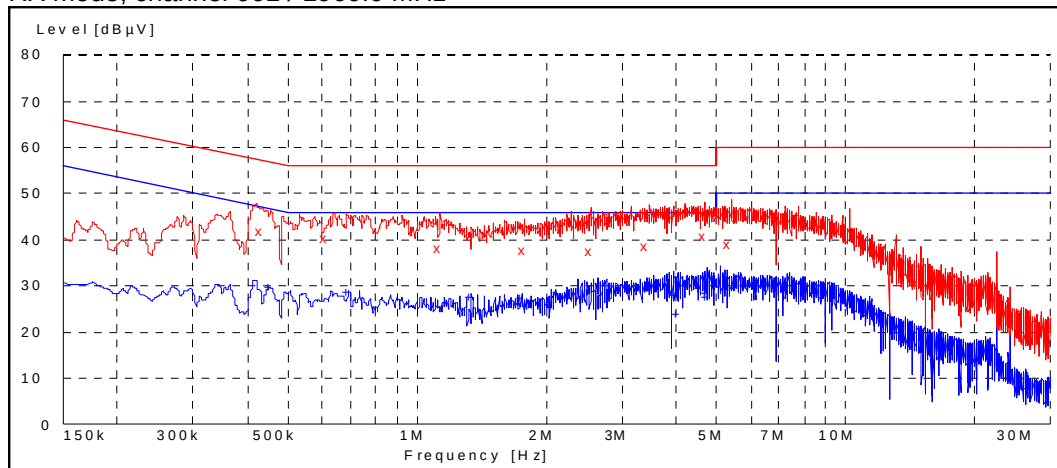
Frequency [MHz]	U [dBμV]	Line	Result
0.415000	41.80	L1	PASSED
0.510000	38.60	N	PASSED
0.615000	40.30	L1	PASSED
1.855000	37.00	L1	PASSED
3.680000	39.40	N	PASSED
4.660000	41.60	L1	PASSED
8.640000	36.80	N	PASSED
13.045000	30.50	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.465000	29.20	L1	PASSED
0.630000	28.00	L1	PASSED
1.400000	27.20	L1	PASSED
1.990000	27.90	L1	PASSED
4.070000	30.30	N	PASSED
4.240000	32.60	L1	PASSED
4.715000	30.90	N	PASSED
4.800000	31.00	N	PASSED

2.4. GSM 1900 Test results

RX mode, channel 661 / 1960.0 MHz



Quasi peak (RBW: 9 kHz)

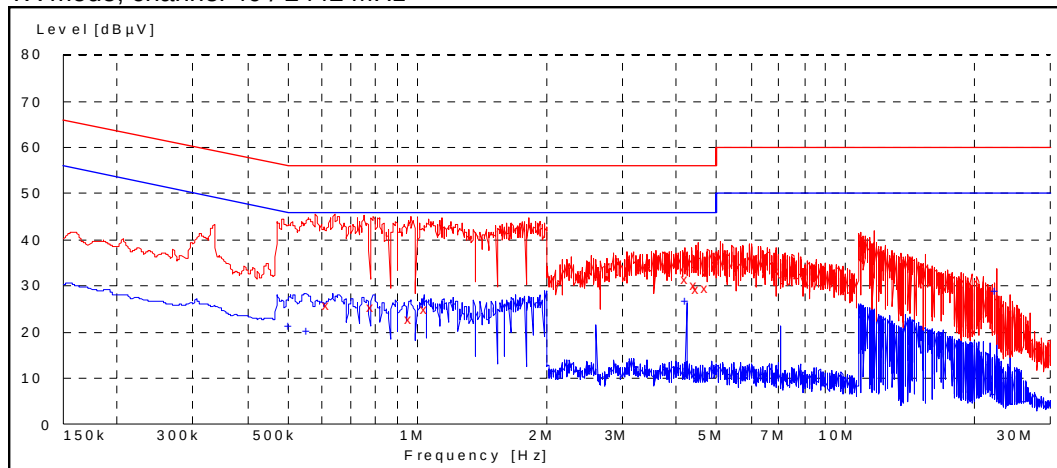
Frequency [MHz]	U [dBμV]	Line	Result
0.435000	42.00	L1	PASSED
0.610000	40.20	L1	PASSED
1.125000	38.20	L1	PASSED
1.775000	37.80	L1	PASSED
2.550000	37.40	L1	PASSED
3.450000	38.60	L1	PASSED
4.685000	40.90	L1	PASSED
5.370000	39.20	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.455000	29.70	L1	PASSED
0.690000	28.60	L1	PASSED
1.340000	27.60	L1	PASSED
1.750000	27.20	L1	PASSED
3.995000	28.10	L1	PASSED
4.090000	23.90	N	PASSED
4.735000	27.40	L1	PASSED
4.775000	28.50	L1	PASSED

2.5. Bluetooth Test results

TX mode, channel 40 / 2442 MHz



Quasi peak (RBW: 9 kHz)

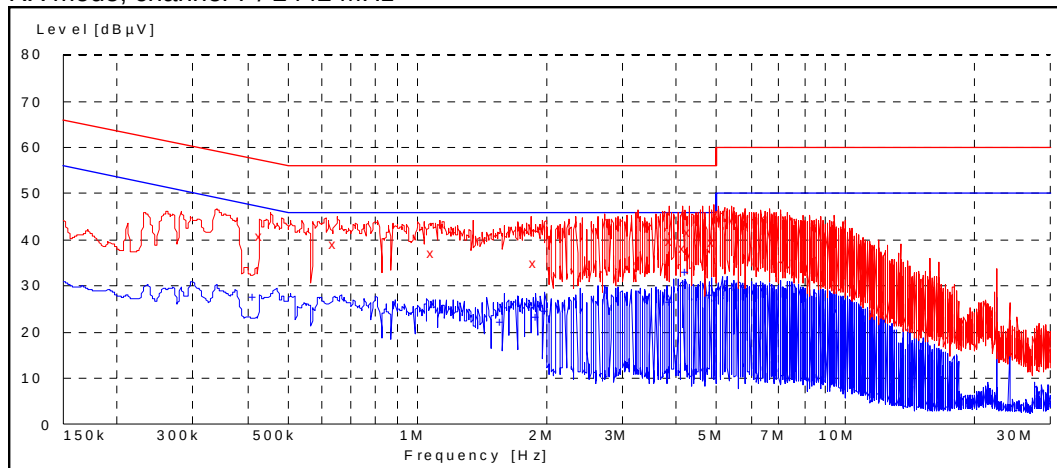
Frequency [MHz]	U [dBμV]	Line	Result
0.620000	25.90	L1	PASSED
0.785000	25.30	L1	PASSED
0.965000	22.70	L1	PASSED
1.050000	24.90	L1	PASSED
4.240000	31.50	L1	PASSED
4.510000	30.00	L1	PASSED
4.555000	29.30	L1	PASSED
4.785000	29.50	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.505000	21.40	L1	PASSED
0.560000	20.30	L1	PASSED
4.240000	26.60	L1	PASSED
22.500000	29.10	L1	PASSED

2.6. WLAN Test results

RX mode, channel 7 / 2442 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.435000	41.00	L1	PASSED
0.640000	39.00	L1	PASSED
1.085000	37.20	L1	PASSED
1.895000	35.00	N	PASSED
3.905000	39.80	L1	PASSED
4.220000	38.20	N	PASSED
4.315000	41.60	L1	PASSED
4.915000	39.40	L1	PASSED

Average (RBW: 9 kHz)

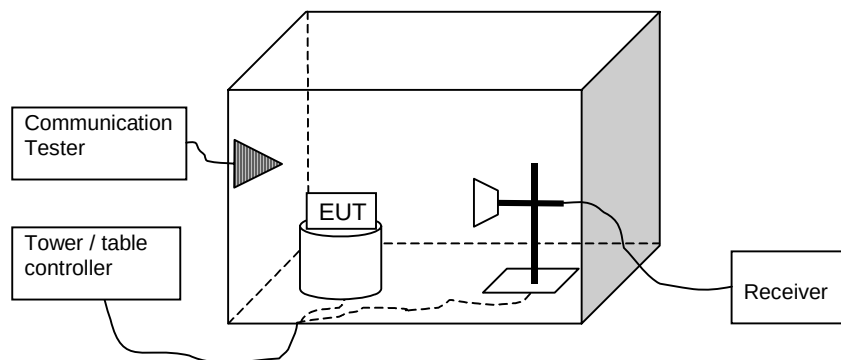
Frequency [MHz]	U [dBμV]	Line	Result
0.420000	27.50	L1	PASSED
1.585000	22.10	N	PASSED
1.915000	23.40	L1	PASSED
2.000000	24.40	L1	PASSED
3.945000	26.40	N	PASSED
4.240000	32.80	L1	PASSED
4.870000	28.10	L1	PASSED

3. Radiated emissions

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

EUT with DUT number	RM-179 DUT 41057
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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]	22-23 / 43-45 / 101.9-102.4
Date of measurements	25,26.4.2007
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.

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	40.60	107.15	45.70	-5.1	HORIZONTAL	PASSED
6953.600000	43.50	149.62	42.60	0.9	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	26.20	20.42	31.30	-5.1	HORIZONTAL	PASSED
6953.600000	30.20	32.36	29.30	0.9	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
49.819439	32.70	43.15	67.70	-35.0	VERTICAL	PASSED
348.495391	31.00	35.48	62.10	-31.1	HORIZONTAL	PASSED
448.496593	28.80	27.54	57.80	-29.0	HORIZONTAL	PASSED
616.534469	30.10	31.99	56.00	-25.9	VERTICAL	PASSED
646.592585	32.90	44.16	57.90	-25.0	VERTICAL	PASSED
648.498597	31.20	36.31	56.10	-24.9	VERTICAL	PASSED

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1293.085170	53.70	484.17	71.70	-18.0	VERTICAL	PASSED
1293.089178	55.40	588.84	73.40	-18.0	VERTICAL	PASSED
1314.133267	54.00	501.19	72.00	-18.0	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1166.332665	34.10	50.70	53.40	-19.3	VERTICAL	PASSED
1195.898798	25.90	19.72	45.20	-19.3	VERTICAL	PASSED
1259.519038	34.00	50.12	52.70	-18.7	VERTICAL	PASSED
1294.589178	31.50	37.58	49.50	-18.0	VERTICAL	PASSED
1296.585170	26.00	19.95	44.00	-18.0	VERTICAL	PASSED
1313.133267	26.60	21.38	44.60	-18.0	VERTICAL	PASSED
1866.733467	30.30	32.73	43.40	-13.1	VERTICAL	PASSED
1991.483968	35.20	57.54	47.20	-12.0	VERTICAL	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	39.10	90.16	43.70	-4.6	HORIZONTAL	PASSED
7150.400000	42.10	127.35	40.60	1.5	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3575.200000	26.10	20.18	30.70	-4.6	HORIZONTAL	PASSED
7150.400000	28.10	25.41	26.60	1.5	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	41.10	113.50	43.50	-2.4	HORIZONTAL	PASSED
7720.000000	42.10	127.35	39.40	2.7	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3860.000000	28.40	26.30	30.80	-2.4	HORIZONTAL	PASSED
7720.000000	29.50	29.85	26.80	2.7	HORIZONTAL	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
348.797796	25.80	19.50	56.90	-31.1	HORIZONTAL	PASSED
637.476553	32.00	39.81	57.50	-25.5	VERTICAL	PASSED
647.494589	32.20	40.74	57.10	-24.9	VERTICAL	PASSED
737.876954	33.40	46.77	56.80	-23.4	VERTICAL	PASSED
756.915030	34.00	50.12	57.40	-23.4	VERTICAL	PASSED
796.393186	32.60	42.66	55.60	-23.0	VERTICAL	PASSED

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3920.000000	43.00	141.25	45.40	-2.40	VERTICAL	PASSED
7840.000000	43.80	154.88	41.00	2.80	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3920.000000	28.50	26.61	30.90	-2.40	VERTICAL	PASSED
7840.000000	30.10	31.99	27.30	2.80	VERTICAL	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	44.00	158.49	46.70	-2.70	VERTICAL	PASSED
7960.000000	42.50	133.35	39.40	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	27.90	24.83	30.60	-2.70	VERTICAL	PASSED
7960.000000	29.80	30.90	26.70	3.10	HORIZONTAL	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	42.60	134.90	44.30	-1.7	VERTICAL	PASSED
7206.000000	49.20	288.40	47.50	1.7	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4804.000000	30.50	33.50	32.20	-1.7	VERTICAL	PASSED
7206.000000	35.40	58.88	33.70	1.7	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
37.935872	7.30	2.32	18.50	-11.2	HORIZONTAL	PASSED

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2496.000000	45.20	181.97	39.00	6.2	HORIZONTAL	PASSED
2899.785571	47.30	231.74	38.50	8.8	VERTICAL	PASSED
3970.447896	42.80	138.04	45.50	-2.7	VERTICAL	PASSED
4883.767535	42.60	134.90	44.20	-1.6	HORIZONTAL	PASSED
4926.845691	40.30	103.51	41.60	-1.3	HORIZONTAL	PASSED
7325.651303	48.70	272.27	46.40	2.3	VERTICAL	PASSED
17956.405812	55.20	575.44	34.00	21.2	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2496.500000	32.00	39.81	25.80	6.2	HORIZONTAL	PASSED
2898.785571	34.40	52.48	25.60	8.8	VERTICAL	PASSED
3970.447896	26.50	21.13	29.20	-2.7	VERTICAL	PASSED
4883.767535	27.80	24.55	29.40	-1.6	HORIZONTAL	PASSED
4926.345691	27.40	23.44	28.70	-1.3	HORIZONTAL	PASSED
7325.651303	35.00	56.23	32.70	2.3	VERTICAL	PASSED
17951.905812	42.20	128.82	21.00	21.2	HORIZONTAL	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	41.80	123.03	43.00	-1.2	VERTICAL	PASSED
7440.000000	46.10	201.84	43.40	2.7	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.000000	29.30	29.17	30.50	-1.2	VERTICAL	PASSED
7440.000000	31.50	37.58	28.80	2.7	VERTICAL	PASSED

3.6. WLAN Test results

TX mode, channel 1 / 2412 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4824.000000	39.00	89.13	40.70	-1.7	HORIZONTAL	PASSED
7236.000000	42.10	127.35	40.10	2.0	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4824.000000	26.40	20.89	28.10	-1.7	VERTICAL	PASSED
7236.000000	28.90	27.86	26.90	2.0	VERTICAL	PASSED

TX mode, channel 7 / 2442 MHz

Quasi peak (RBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
37.976353	7.30	2.32	18.60	-11.3	HORIZONTAL	PASSED

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3987.975952	43.70	153.11	46.40	-2.7	HORIZONTAL	PASSED
4916.331663	40.50	105.93	41.90	-1.4	HORIZONTAL	PASSED
4953.413828	40.20	102.33	41.40	-1.2	HORIZONTAL	PASSED
7282.557114	42.70	136.46	40.30	2.4	VERTICAL	PASSED
7309.125251	42.30	130.32	39.90	2.4	VERTICAL	PASSED
7364.231463	42.80	138.04	40.30	2.5	HORIZONTAL	PASSED
7418.835671	42.90	139.64	40.10	2.8	VERTICAL	PASSED
17477.959920	51.40	371.54	33.60	17.8	HORIZONTAL	PASSED
17986.969940	56.30	653.13	35.10	21.2	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3984.475952	28.60	26.92	31.30	-2.7	HORIZONTAL	PASSED
4911.831663	27.30	23.17	28.70	-1.4	HORIZONTAL	PASSED
4956.413828	27.40	23.44	28.60	-1.2	HORIZONTAL	PASSED
7279.057114	29.80	30.90	27.40	2.4	VERTICAL	PASSED
7310.125251	29.50	29.85	27.20	2.3	VERTICAL	PASSED
7369.731463	29.70	30.55	27.20	2.5	HORIZONTAL	PASSED
7413.835671	29.90	31.26	27.10	2.8	VERTICAL	PASSED
17482.459920	38.50	84.14	20.60	17.9	HORIZONTAL	PASSED
17984.969940	42.40	131.83	21.20	21.2	HORIZONTAL	PASSED

TX mode, channel 11 / 2462 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
4924.000000	40.30	103.51	41.70	-1.4	HORIZONTAL	PASSED
7386.000000	43.00	141.25	40.40	2.6	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
4924.000000	27.60	23.99	29.00	-1.4	VERTICAL	PASSED
7386.000000	29.70	30.55	27.10	2.6	VERTICAL	PASSED

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