

FCC Part 15B Compliance Test Report

Test Report no.:	Tre_FCC_0732_03.doc	Date of Report:	13.8.2007
Number of pages:	16	Customer's Contact person:	Tero Lehtinen
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FCC listing no.:	94436		
IC recognition no.:	3608		
Tested devices/ accessories:	GSM phone RM-244 / Battery BP-6MT, AC charger AC-5E, Headset HS-47, Data cable DKE-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:	PYARM-244	IC:	661V-RM244
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:			

Jari Jantunen, System Manager

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	7.8.2007
Testing completed	9.8.2007
The customer's contact person	Tero Lehtinen
Test Plan referred to	T:\Projects\
Notes	-
Document name	T:\Projects\RM-244\EMC\Results\FCC\Tre_FCC_0732_03.doc

1.1. EUT and Accessory Information

The EUT is a 6-band (GSM850/900/1800/1900 and WCDMA Band I/V(850)) mobile phone with GPRS, EGPRS, Bluetooth and WLAN. GSM and WCDMA bands are tested in idle mode. Bluetooth and WLAN are tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
GSM phone	RM-244	004401012805194	0501	-	007.22.01	41179
Battery	BP-6MT	-	-	-	-	41183
AC-Charger	AC-5E	-	-	-	-	41185
Headset	HS-47	-	-	-	-	41181
Data cable	DKE-2	-	-	-	-	41182
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.

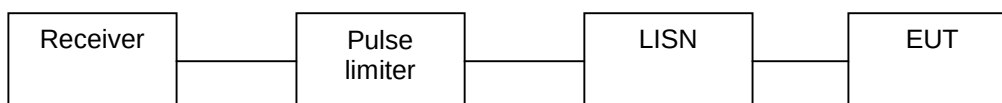
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2. AC powerline conducted emissions (FCC §15.107, ICES-003 section 5.3)

EUT with DUT number	RM-244 DUT 41179
Accessories with DUT numbers	BP-6MT DUT 41183, AC-5E DUT 41185, HS-47 DUT 41181, DKE-2 DUT 41182, 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 / 52 / 102.1
Date of measurements	7.8.2007
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:

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

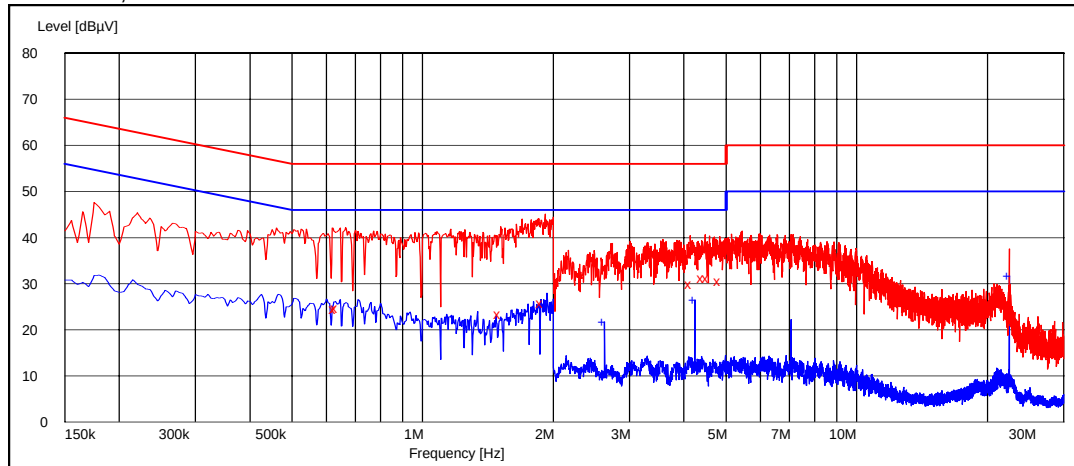
Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable and pulse limiter attenuations.

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)

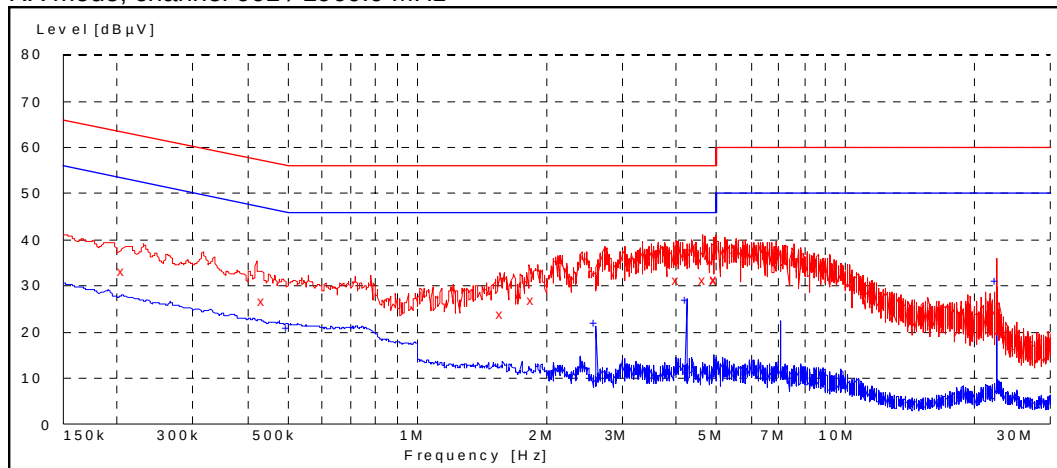
Frequency [MHz]	U [dBμV]	Line	Result
0.630000	24.60	L1	PASSED
0.635000	24.70	N	PASSED
1.510000	23.50	L1	PASSED
1.890000	25.90	L1	PASSED
4.160000	29.90	L1	PASSED
4.440000	31.30	L1	PASSED
4.555000	31.20	L1	PASSED
4.850000	30.50	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
2.625000	21.70	L1	PASSED
4.240000	26.40	L1	PASSED
22.500000	31.60	L1	PASSED

2.4. GSM 1900 Test results

RX mode, channel 661 / 1960.0 MHz



Quasi peak (RBW: 9 kHz)

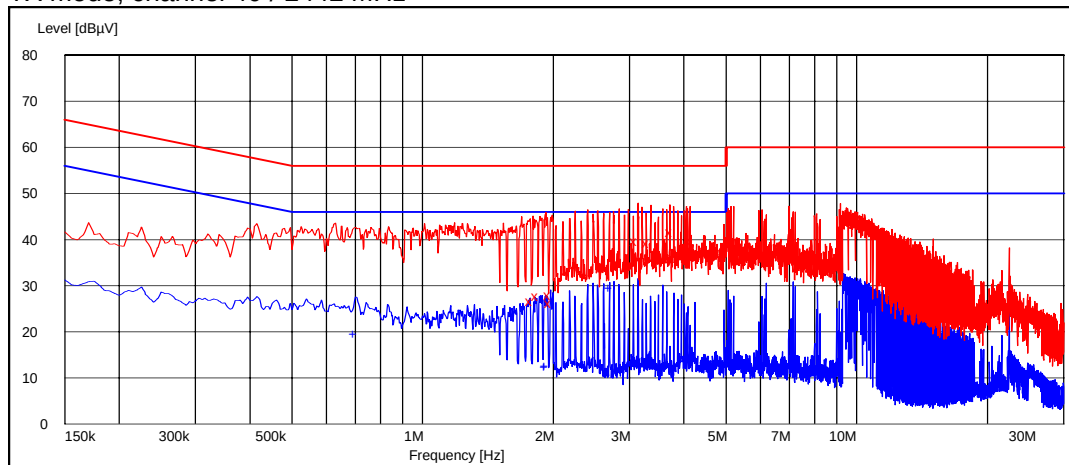
Frequency [MHz]	U [dBμV]	Line	Result
0.205000	33.20	L1	PASSED
0.440000	26.70	L1	PASSED
1.570000	23.80	L1	PASSED
1.875000	26.90	L1	PASSED
4.085000	31.20	L1	PASSED
4.690000	31.10	L1	PASSED
4.960000	31.20	L1	PASSED
4.975000	31.40	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.500000	20.70	L1	PASSED
2.625000	21.80	L1	PASSED
4.240000	26.90	N	PASSED
22.500000	31.00	L1	PASSED

2.5. Bluetooth Test results

TX mode, channel 40 / 2442 MHz



Quasi peak (RBW: 9 kHz)

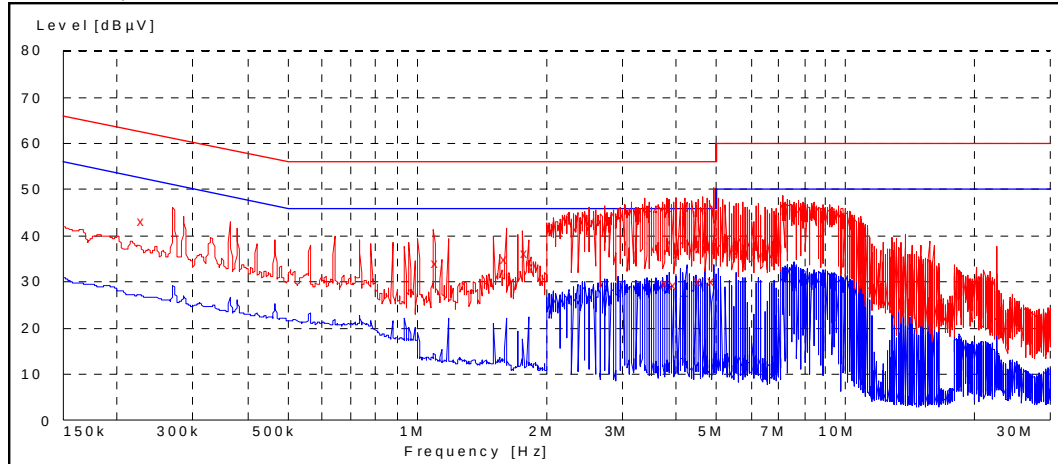
Frequency [MHz]	U [dBμV]	Line	Result
1.785000	26.60	L1	PASSED
1.840000	27.80	L1	PASSED
1.965000	27.90	N	PASSED
1.975000	26.30	N	PASSED
3.110000	39.60	N	PASSED
3.315000	39.20	N	PASSED
3.755000	41.70	L1	PASSED
4.145000	39.60	N	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.700000	19.60	N	PASSED
1.930000	12.40	N	PASSED
1.935000	12.60	N	PASSED
2.710000	29.60	L1	PASSED

2.6. WLAN Test results

RX mode, channel 7 / 2442 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.230000	43.10	L1	PASSED
1.110000	34.10	L1	PASSED
1.625000	35.00	L1	PASSED
1.800000	36.20	L1	PASSED
3.840000	29.80	L1	PASSED
4.015000	29.20	L1	PASSED
4.580000	30.10	L1	PASSED
4.925000	30.10	L1	PASSED

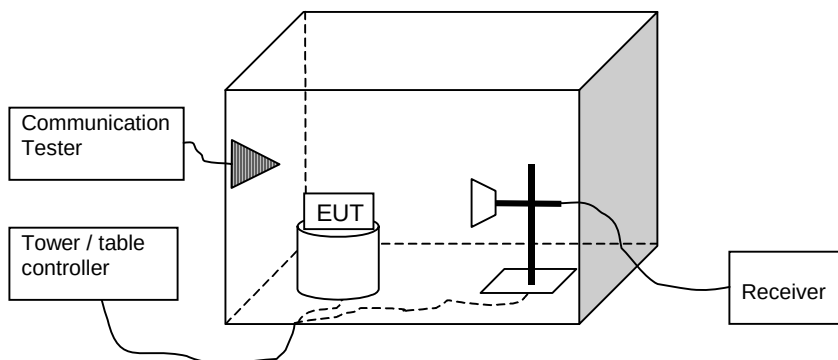
Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
4.240000	27.10	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-244 DUT 41179
Accessories with DUT numbers	BP-6MT DUT 41183, AC-5E DUT 41185, HS-47 DUT 41181, DKE-2 DUT 41182, 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]	21 / 50 / 102.0
Date of measurements	9.8.2007
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:

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

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	38.80	87.10	43.90	-5.1	VERTICAL	PASSED
6953.600000	43.10	142.89	42.20	0.9	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	25.60	19.05	30.70	-5.1	HORIZONTAL	PASSED
6953.600000	29.90	31.26	29.00	0.9	HORIZONTAL	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
98.939479	26.80	21.88	62.30	-35.5	VERTICAL	PASSED
616.932465	26.10	20.18	52.00	-25.9	VERTICAL	PASSED
636.972545	31.00	35.48	56.50	-25.5	VERTICAL	PASSED
646.292585	29.30	29.17	54.30	-25.0	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
1495.487976	54.00	501.19	70.70	-16.7	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1232.966934	34.90	55.59	54.00	-19.1	VERTICAL	PASSED

1260.019038	36.80	69.18	55.50	-18.7	VERTICAL	PASSED
1297.599198	24.60	16.98	42.50	-17.9	VERTICAL	PASSED
1492.487976	33.00	44.67	49.70	-16.7	VERTICAL	PASSED
1666.832665	29.40	29.51	44.50	-15.1	HORIZONTAL	PASSED
1992.483968	38.20	81.28	50.10	-11.9	VERTICAL	PASSED

RX mode, channel 251 / 893.8 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
3575.200000	38.20	81.28	42.80	-4.6	VERTICAL	PASSED
7150.400000	41.10	113.50	39.60	1.5	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
3575.200000	25.60	19.05	30.20	-4.6	HORIZONTAL	PASSED
7150.400000	27.90	24.83	26.40	1.5	HORIZONTAL	PASSED

3.4. GSM 1900 + FM radio on

RX mode, channel 512 / 1930.2 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
3860.000000	39.50	94.41	41.90	-2.4	VERTICAL	PASSED
7720.000000	42.40	131.83	39.70	2.7	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
3860.000000	26.80	21.88	29.20	-2.4	HORIZONTAL	PASSED
7720.000000	29.10	28.51	26.40	2.7	HORIZONTAL	PASSED

RX mode, channel 661 / 1960.0 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
1493.985972	54.90	555.90	71.60	-16.7	VERTICAL	PASSED
1496.987976	54.10	506.99	70.80	-16.7	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1195.898798	25.70	19.28	45.00	-19.3	VERTICAL	PASSED
1260.519038	35.50	59.57	54.20	-18.7	VERTICAL	PASSED
1262.533066	27.40	23.44	46.10	-18.7	VERTICAL	PASSED
1494.985972	33.20	45.71	49.90	-16.7	VERTICAL	PASSED
1494.987976	33.10	45.19	49.80	-16.7	VERTICAL	PASSED
1991.983968	34.20	51.29	46.20	-12.0	VERTICAL	PASSED
2437.881764	28.50	26.61	37.10	-8.6	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	48.60	269.15	51.30	-2.7	VERTICAL	PASSED
7960.000000	43.40	147.91	40.30	3.1	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3980.000000	41.80	123.03	44.50	-2.7	VERTICAL	PASSED
7960.000000	29.50	29.85	26.40	3.1	VERTICAL	PASSED

3.5. Bluetooth 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	39.00	89.13	40.70	-1.7	HORIZONTAL	PASSED
7206.000000	41.20	114.82	39.50	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	25.80	19.50	27.50	-1.7	HORIZONTAL	PASSED
7206.000000	28.20	25.70	26.50	1.7	HORIZONTAL	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
37.535872	7.50	2.37	18.40	-10.9	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
4873.243487	39.00	89.13	40.60	-1.6	HORIZONTAL	PASSED
4914.833667	40.10	101.16	41.50	-1.4	HORIZONTAL	PASSED
7281.565130	42.10	127.35	39.70	2.4	VERTICAL	PASSED
7284.069138	42.70	136.46	40.30	2.4	HORIZONTAL	PASSED
7413.325651	42.50	133.35	39.70	2.8	HORIZONTAL	PASSED
7415.327655	43.30	146.22	40.50	2.8	VERTICAL	PASSED
17985.973948	54.70	543.25	33.50	21.2	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4868.743487	26.50	21.13	28.10	-1.6	HORIZONTAL	PASSED
4917.833667	26.90	22.13	28.30	-1.4	HORIZONTAL	PASSED
7278.565130	29.40	29.51	27.00	2.4	VERTICAL	PASSED
7281.069138	29.50	29.85	27.10	2.4	HORIZONTAL	PASSED
7412.325651	29.40	29.51	26.60	2.8	HORIZONTAL	PASSED
7417.827655	29.50	29.85	26.70	2.8	VERTICAL	PASSED
17988.473948	42.20	128.82	20.90	21.3	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	39.50	94.41	40.70	-1.2	HORIZONTAL	PASSED
7440.000000	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
4960.000000	26.90	22.13	28.10	-1.2	HORIZONTAL	PASSED
7440.000000	29.30	29.17	26.60	2.7	HORIZONTAL	PASSED

3.6. WLAN Test results

RX 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	38.60	85.11	40.30	-1.7	HORIZONTAL	PASSED
7236.000000	41.00	112.20	39.00	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	25.70	19.28	27.40	-1.7	HORIZONTAL	PASSED
7236.000000	28.50	26.61	26.50	2.0	VERTICAL	PASSED

RX 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
30.700000	12.50	4.22	18.10	-5.6	VERTICAL	PASSED
37.835872	7.20	2.29	18.40	-11.2	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
4931.367735	40.00	100.00	41.30	-1.3	HORIZONTAL	PASSED
7280.563126	42.10	127.35	39.70	2.4	VERTICAL	PASSED
7289.071142	42.10	127.35	39.70	2.4	HORIZONTAL	PASSED
7375.243487	42.60	134.90	40.10	2.5	VERTICAL	PASSED
7417.337675	42.80	138.04	40.00	2.8	VERTICAL	PASSED
17985.969940	55.40	588.84	34.20	21.2	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4933.367735	26.90	22.13	28.20	-1.3	HORIZONTAL	PASSED
7280.063126	29.40	29.51	27.00	2.4	VERTICAL	PASSED
7285.071142	29.30	29.17	26.90	2.4	HORIZONTAL	PASSED
7367.743487	29.20	28.84	26.70	2.5	VERTICAL	PASSED
7415.337675	29.50	29.85	26.70	2.8	VERTICAL	PASSED
17988.969940	42.10	127.35	20.80	21.3	HORIZONTAL	PASSED

RX mode, channel 11 / 2462 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4924.000000	39.60	95.50	41.00	-1.4	VERTICAL	PASSED
7386.000000	42.10	127.35	39.50	2.6	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4924.000000	26.90	22.13	28.30	-1.4	HORIZONTAL	PASSED
7386.000000	29.30	29.17	26.70	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