

FCC Part 15B Compliance Test Report

Test Report no.:	FCC15B_RM-658_13.doc	Date of Report:	09-Apr-2010
Number of pages:	15	Customer's Contact person:	Jan Rasmussen
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FCC listing no.:	99059		
IC recognition no.:	661AL-1		
Tested devices/ accessories:	Phone RM-658 / Battery BP-4L / Headset WH-205 / AC Charger AC-10U		
FCC ID:	QTKRM-658	IC:	661AD-RM658
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 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".		
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:			

Christian Andersen, System Specialist, EMC

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	23-Feb-2010
Testing completed	07-Apr-2010
The customer's contact person	Jan Rasmussen
Test Plan referred to	T:\Projects\RM-658\TestPlan_RS\RS_testplan_RM-658.xls
Notes	None
Document name	FCC15B_RM-658_13.doc

1.1. EUT and Accessory Information

The EUT is a 7-band (GSM850/900/1800/1900 and WCDMA Band I/IV(1700)/VIII) mobile phone with GPRS, EGPRS, Bluetooth and WLAN. GSM bands are tested in idle mode. Bluetooth and WLAN are tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-658	004401019811187	9011	-	041.003	24455
Battery	BP-4L	3932139463B61034035;0670519	-	-	-	24451
Headset	WH-205	06944219485D1R68493	-	-	-	24436
AC Charger	AC-10U	3997910035052200093;0675409	-	-	-	24440
Phone	RM-658	004401019811062	9013	-	041.003RD	24357
Battery	BP-4L	3932139463B61034044;0670519	-	-	-	24450
Headset	WH-205	06944219485D1R68372	-	-	-	24443
AC Charger	AC-10U	3997910035052200095;0675409	-	-	-	24447

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 (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

WCDMA 1700 (Band IV):

Section in CFR 47	Section in ICES-003 (RSS-139)	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

Bluetooth:

Section in CFR 47	Section in ICES-003	Name of the test	Result
15.107, a	5.3	AC powerline conducted emissions	NP
15.109, a	5.5	Radiated emissions	NP

WLAN:

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

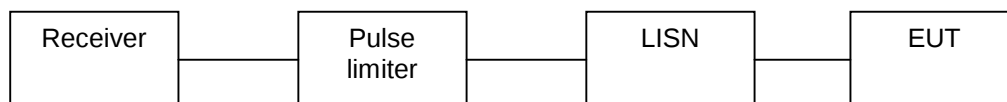
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2. AC powerline conducted emissions (FCC §15.107, ICES-003 section 5.3)

EUT with DUT number	RM-658 DUT 24455
Accessories with DUT numbers	BP-4L DUT 24451, AC-10U DUT 24440, WH-205 DUT24436
Operation Voltage [V] / [Hz]	115 / 60
Result	Passed
Remarks	FM-Radio active during test.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	23 / 37 / 103
Date of measurements	11-Mar-2010
Measured by	Bo Moltved Christiansen

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:

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

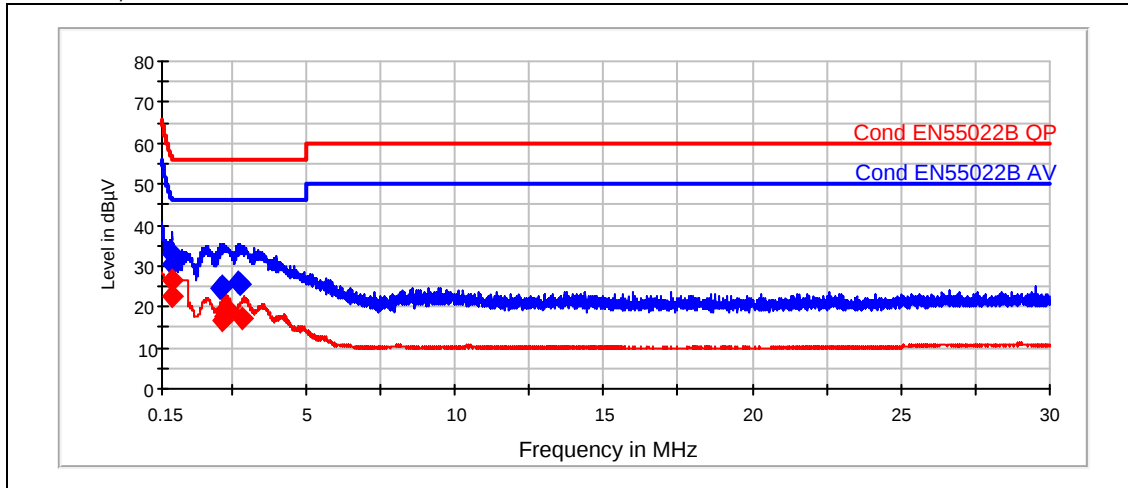
Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable and pulse limiter attenuations.

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

Frequency[MHz]	Level [dBµV]	Meas. time[ms]	IF-BW[kHz]	Line	Margin	Result
0.485	30.54	20000	10	N	25.75	Passed
0.5	33.12	20000	10	N	22.9	Passed
2.13	24.34	20000	10	N	31.7	Passed
2.165	24.89	20000	10	N	31.1	Passed
2.7	26.11	20000	10	N	29.9	Passed
2.755	25.38	20000	10	N	30.6	Passed

Average

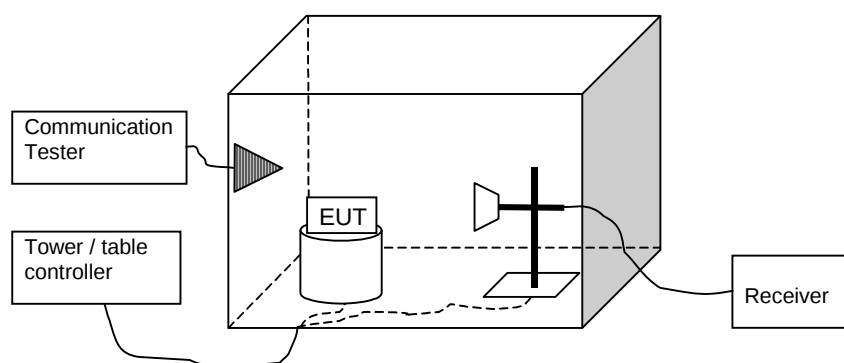
Frequency[MHz]	Level [dBµV]	Meas. time[ms]	IF-BW[kHz]	Line	Margin	Result
0.48	22.54	20000	10	N	23.84	Passed
0.495	26.33	20000	10	N	19.78	Passed
2.17	16.93	20000	10	N	29.1	Passed
2.23	17.65	20000	10	N	28.4	Passed
2.315	19.4	20000	10	N	26.6	Passed
2.875	17.27	20000	10	N	28.7	Passed

3. 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-658, DUT 24357
Accessories with DUT numbers	BP-4L DUT 24450 ; WH-205 DUT 24443 ; AC-10U DUT 24447
Operation Voltage [V] / [Hz]	115 / 60
Result	Passed
Remarks	GSM850 and GSM1900 tested with FM-Radio active. WLAN and WCDMA4 tested with with GPS active.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 45 / 100.1
Date of measurements	07-Apr-2010
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	33.60	47.86	38.30	-4.7	VERTICAL	Passed
6953.600000	45.10	179.89	37.60	7.5	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	21.20	11.48	25.90	-4.7	VERTICAL	Passed
6953.600000	32.60	42.66	25.10	7.5	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
34.931062	16.70	6.84	25.10	-8.4	HORIZONTAL	Passed
42.583567	12.50	4.22	26.10	-13.6	VERTICAL	Passed
75.591383	9.10	2.85	28.60	-19.5	VERTICAL	Passed
98.056112	62.70	1364.58	80.80	-18.1	VERTICAL	Passed
195.190782	34.90	55.59	55.10	-20.2	VERTICAL	Passed
881.563527	58.40	831.76	64.90	-6.5	VERTICAL	Passed

*98.0 MHz frequency is coming from FM-Radio tester and thus ignored.

*881.0 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
2504.514028	35.90	62.37	30.40	5.5	VERTICAL	Passed
2606.714429	36.10	63.83	30.20	5.9	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	33.90	49.55	37.90	-4.0	VERTICAL	Passed
7150.400000	41.40	117.49	32.70	8.7	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3575.200000	21.30	11.61	25.30	-4.0	VERTICAL	Passed
7150.400000	28.80	27.54	20.10	8.7	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	35.50	59.57	38.80	-3.3	VERTICAL	Passed
7720.000000	42.70	136.46	33.20	9.5	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3860.000000	22.60	13.49	25.90	-3.3	VERTICAL	Passed
7720.000000	29.50	29.85	20.00	9.5	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
35.712024	17.00	7.08	25.90	-8.9	HORIZONTAL	Passed
36.473948	16.80	6.92	26.30	-9.5	HORIZONTAL	Passed
75.350902	12.20	4.07	31.70	-19.5	VERTICAL	Passed
98.056112	62.70	1364.58	80.80	-18.1	VERTICAL	Passed
196.793788	38.80	87.10	58.90	-20.1	VERTICAL	Passed
762.023046	19.30	9.23	27.30	-8.0	VERTICAL	Passed

*98.0 MHz frequency is coming from FM-Radio tester and thus ignored.

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	69.80	3090.30	68.70	1.1	VERTICAL	Passed

*1960.0 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
1959.919840	69.10	2851.02	68.00	1.1	VERTICAL	Passed
2986.465932	39.40	93.33	28.80	10.6	VERTICAL	Passed

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

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	35.90	62.37	38.90	-3.0	HORIZONTAL	Passed
7960.000000	43.00	141.25	32.20	10.8	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3980.000000	23.00	14.13	26.00	-3.0	VERTICAL	Passed
7960.000000	30.40	33.11	19.60	10.8	VERTICAL	Passed

3.5. WCDMA 1700 Test results

RX mode, channel 1537 / 2112.4 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2112.400000	46.60	213.80	43.50	3.10	VERTICAL	Passed
4224.800000	34.90	55.59	37.60	-2.70	VERTICAL	Passed
6337.200000	40.50	105.93	36.00	4.50	HORIZONTAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2112.400000	33.40	46.77	30.30	3.10	VERTICAL	Passed
4224.800000	22.70	13.65	25.40	-2.70	VERTICAL	Passed
6337.200000	28.00	25.12	23.50	4.50	VERTICAL	Passed

RX mode, channel 1637 / 2132.4 MHz

Quasi peak (RBW: 120 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
31.423848	19.90	9.89	26.10	-6.2	HORIZONTAL	Passed
43.385972	12.80	4.37	26.90	-14.1	VERTICAL	Passed
51.302806	17.10	7.16	36.80	-19.7	VERTICAL	Passed
721.140882	19.00	8.91	27.20	-8.2	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
1189.372745	39.80	97.72	43.30	-3.5	HORIZONTAL	Passed
1442.879760	42.90	139.64	43.70	-0.8	HORIZONTAL	Passed
1575.650301	48.20	257.04	48.50	-0.3	HORIZONTAL	Passed
2058.118236	46.00	199.53	43.20	2.8	HORIZONTAL	Passed
2132.262525	61.70	1216.19	59.10	2.6	VERTICAL	Passed
2844.181363	52.80	436.52	43.30	9.5	HORIZONTAL	Passed
5718.936874	42.70	136.46	40.30	2.4	HORIZONTAL	Passed
6405.303607	40.60	107.15	36.00	4.6	HORIZONTAL	Passed
6744.992986	42.70	136.46	36.50	6.2	VERTICAL	Passed
6920.339679	47.30	231.74	39.40	7.9	VERTICAL	Passed
7341.181363	42.40	131.83	32.80	9.6	HORIZONTAL	Passed
7663.322645	42.40	131.83	32.90	9.5	VERTICAL	Passed

*2132 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
1443.383768	29.90	31.26	30.70	-0.8	VERTICAL	Passed
1450.399800	30.20	32.36	30.90	-0.7	VERTICAL	Passed
1575.150301	35.20	57.54	35.50	-0.3	HORIZONTAL	Passed
2044.586172	33.80	48.98	30.10	3.7	VERTICAL	Passed
2133.264529	47.40	234.42	44.80	2.6	VERTICAL	Passed
2982.465932	39.40	93.33	28.80	10.6	HORIZONTAL	Passed
5990.479960	32.20	40.74	29.20	3.0	VERTICAL	Passed
6400.305611	28.40	26.30	23.80	4.6	VERTICAL	Passed
6793.081162	30.60	33.88	23.80	6.8	VERTICAL	Passed
6919.831663	33.80	48.98	26.00	7.8	VERTICAL	Passed
7385.273547	30.00	31.62	19.90	10.1	VERTICAL	Passed
7888.779559	31.00	35.48	20.00	11.0	VERTICAL	Passed

*2133 MHz frequency is coming from communication tester and thus ignored.

RX mode, channel 1738 / 2152.6 MHz

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2152.600000	47.00	223.87	43.60	3.4	HORIZONTAL	Passed
4305.200000	35.90	62.37	38.00	-2.1	VERTICAL	Passed
6457.800000	41.80	123.03	37.30	4.5	HORIZONTAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2152.600000	33.90	49.55	30.50	3.4	VERTICAL	Passed
4305.200000	22.80	13.80	24.90	-2.1	VERTICAL	Passed
6457.800000	28.80	27.54	24.30	4.5	VERTICAL	Passed

3.6. WLAN Test results

RX mode, channel 1

Peak (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4824.000000	35.40	58.88	36.00	-0.6	VERTICAL	Passed
7236.000000	41.80	123.03	33.50	8.3	VERTICAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4824.000000	22.80	13.80	23.40	-0.6	VERTICAL	Passed
7236.000000	28.90	27.86	20.60	8.3	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
74.169940	25.40	18.62	51.00	-25.6	HORIZONTAL	Passed
74.808016	23.70	15.31	49.20	-25.5	HORIZONTAL	Passed
111.782565	19.40	9.33	43.00	-23.6	HORIZONTAL	Passed
116.513627	20.20	10.23	43.80	-23.6	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
7345.693387	43.10	142.89	33.30	9.8	VERTICAL	Passed
7389.275551	43.90	156.68	33.70	10.2	VERTICAL	Passed
7432.361723	42.70	136.46	33.20	9.5	VERTICAL	Passed
17504.000000	53.10	451.86	29.50	23.6	VERTICAL	Passed
17886.769539	58.70	860.99	30.40	28.3	HORIZONTAL	Passed

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
7350.693387	29.80	30.90	19.80	10.0	VERTICAL	Passed
7385.775551	30.20	32.36	20.00	10.2	VERTICAL	Passed
7432.361723	30.10	31.99	20.60	9.5	VERTICAL	Passed
17504.000000	39.90	98.86	16.30	23.6	VERTICAL	Passed
17886.269539	45.50	188.36	17.20	28.3	HORIZONTAL	Passed

RX mode, channel 11

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	36.00	63.10	36.00	0.0	VERTICAL	Passed
7386.000000	43.80	154.88	33.60	10.2	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	23.50	14.96	23.50	0.0	VERTICAL	Passed
7386.000000	30.50	33.50	20.30	10.2	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