

FCC Part 15C Compliance Test Report

Test Report no.:	Salo_FCC_0903_13.doc	Date of Report:	01-Feb-2009
Number of pages:	18	Customer's Contact person:	Ralph Schwarz
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FCC listing no.:	533467		
IC recognition no.:	661V-1		
Tested devices/ accessories:	Phone RM-443 / Battery BL-5CT, Headset HS-125 and AC-Charger AC-8E		
FCC ID:	PPIRM-443	IC:	661U-RM443
Supplement reports:	-		
Testing has been carried out in accordance with:	CFR 47, FCC rules Part 15 Subpart C, ANSI C63.4 (2003), Public Notice DA 00-705, DTS procedures KDB 558074, IC standards RSS-GEN (Issue 2, June 2007) 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:			

Anni Manninen, Test System Manager

1. Summary for FCC Part 15C Compliance Test Report

Date of receipt	31-Dec-2008
Testing completed	31-Feb-2009
The customer's contact person	Ralph Schwarz
Test Plan referred to	T:\Projects\RM-443\TestPlan_RS\RS_testplan_RM-443.xls
Notes	-
Document name	T:\Projects\RM-443\EMC\Results\FCC\Salo_FCC_0903_13.doc

1.1. EUT and Accessory Information

The EUT is a 3-band (GSM900/1800/1900) mobile phone with GPRS, EGPRS and Bluetooth. Bluetooth is tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-443	004401104712100;0568987	0310	-	VP af08w11_08w51ahc	13360
Battery	BL-5CT	3820668263260413569;0670555	-	-	-	13351
Headset	HS-125	06943238376B3100845	-	-	-	13354
AC-Charger	AC-8E	3997917475060302085;0675387	-	-	-	13359

1.2. Summary of Test Results

Bluetooth:

Section in CFR 47	Section in RSS-GEN or RSS-210	Name of the test	Result
15.247(b)(1)	A8.4 (2)	Conducted peak output power	NP
15.247(d)	A8.5	Band edge compliance of RF emissions	PASSED
15.247(d)	A8.5	Spurious RF conducted emissions	NP
15.247(d), 15.209	A8.5	Spurious radiated emissions	PASSED
15.207	7.2.2	AC powerline conducted emissions	PASSED
15.247(a)(1)	A8.1 (1)	20 dB bandwidth	NP
15.247(a)(1)	A8.1 (2)	Carrier frequency separation	NP
15.247(a)(1)(iii)	A8.1 (4)	Number of hopping frequencies	NP
15.247(a)(1)(iii)	A8.1 (4)	Time of occupancy	NP

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

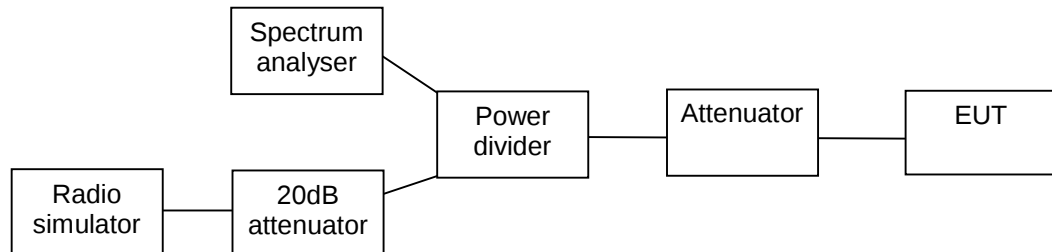
The test was not performed by the TCC Nokia Salo Laboratory.

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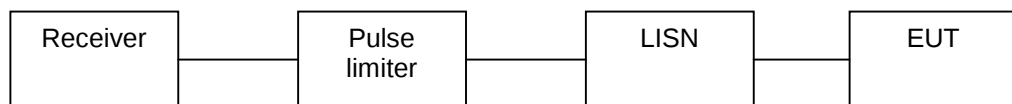
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2. Test setups

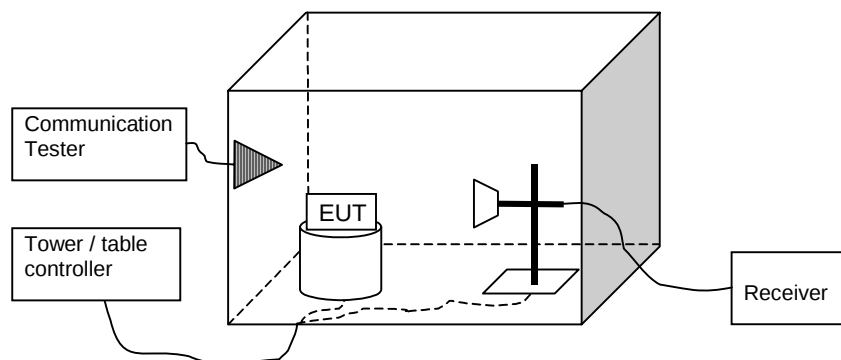
2.1. Conducted RF test setup



2.2. AC powerline conducted emissions test setup



2.3. Radiated test setup



3. Band edge compliance of RF emissions (FCC §15.247(d), RSS-210 A8.5)

EUT with DUT number	RM-443, DUT 13360
Accessories with DUT numbers	BL-5CT, DUT 13351; HS-125, DUT 13354; AC-8E, DUT 13359
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	19 / 42 / 102.8
Date of measurements	14-Jan-2009
Measured by	Sami Lehtonen

3.1. Test method and limit

The measurement is made according to Public notice DA 00-705 and IC standard RSS-210.

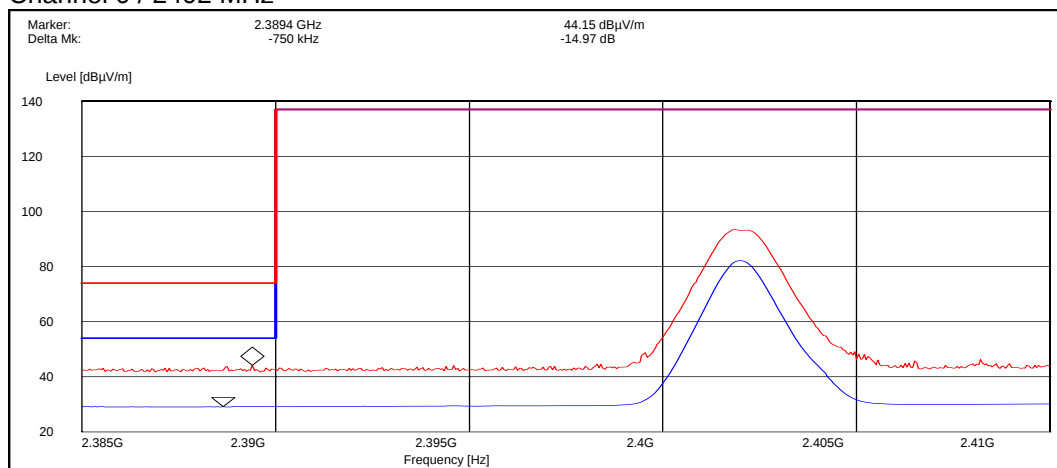
Limits for band edge compliance of RF emissions measurements (3 m measurement distance)

Frequency range [MHz]	Limit Average [dBμV/m]	Limit Peak [dBμV/m]
Below 2390 and above 2483.5	≤ 54	≤ 74

3.2. Bluetooth Test results

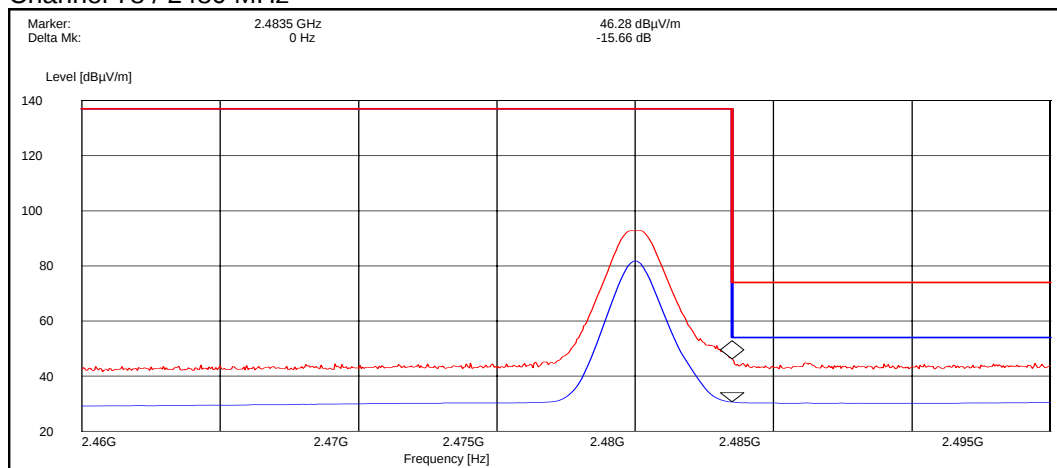
3.2.1 GFSK modulation, PRBS packet type

Channel 0 / 2402 MHz



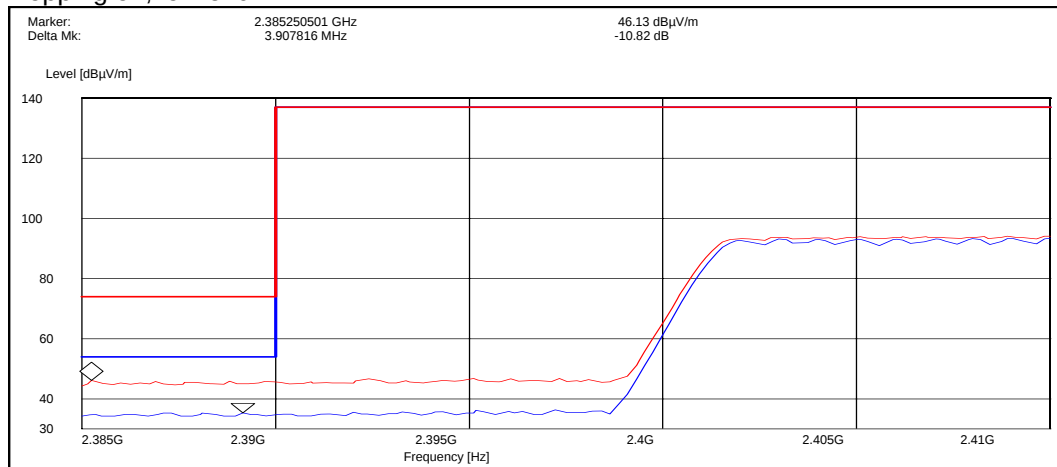
Detector (RBW: 1 MHz)	E [dBμV/m]	Result
Peak	44.20	PASSED
Average	29.20	PASSED

Channel 78 / 2480 MHz



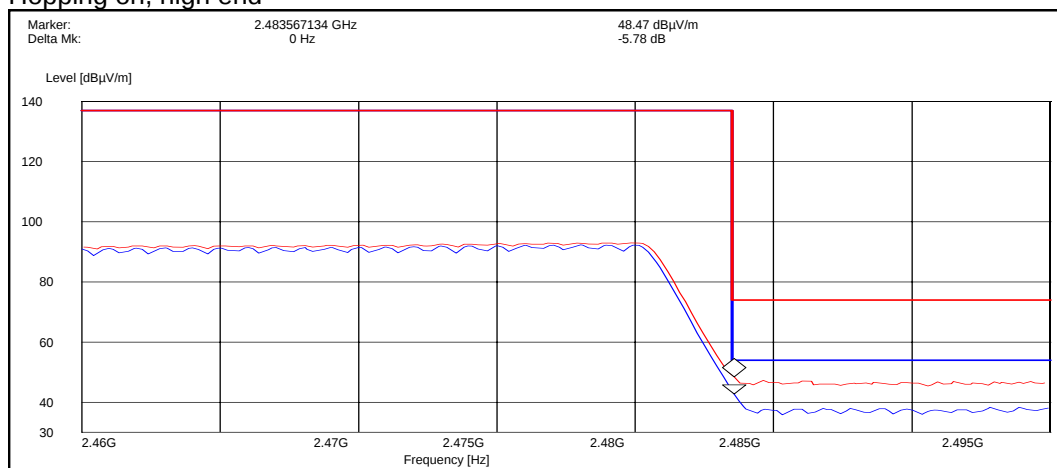
Detector (RBW: 1 MHz)	E [dBμV/m]	Result
Peak	46.30	PASSED
Average	30.60	PASSED

Hopping on, low end



Detector (RBW: 1 MHz)	E [dB μ V/m]	Result
Peak	46.10	PASSED
Average	35.30	PASSED

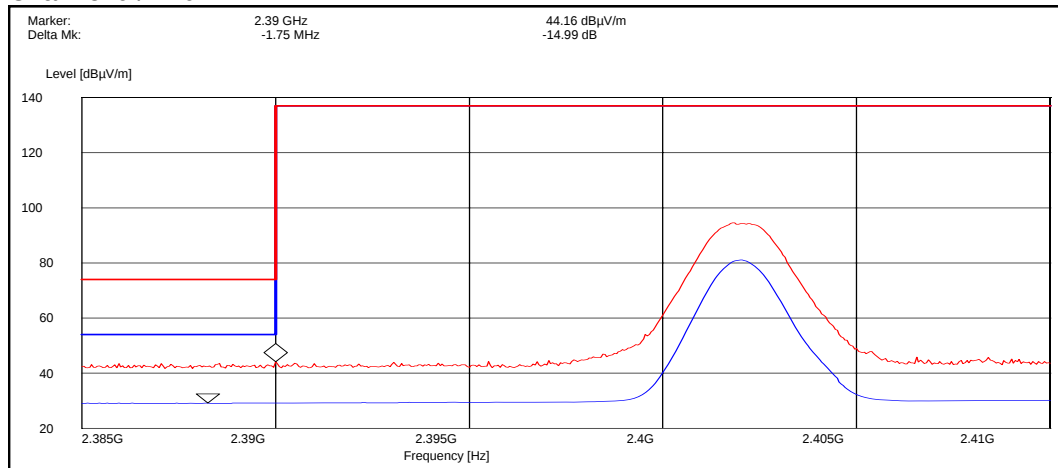
Hopping on, high end



Detector (RBW: 1 MHz)	E [dB μ V/m]	Result
Peak	48.50	PASSED
Average	42.70	PASSED

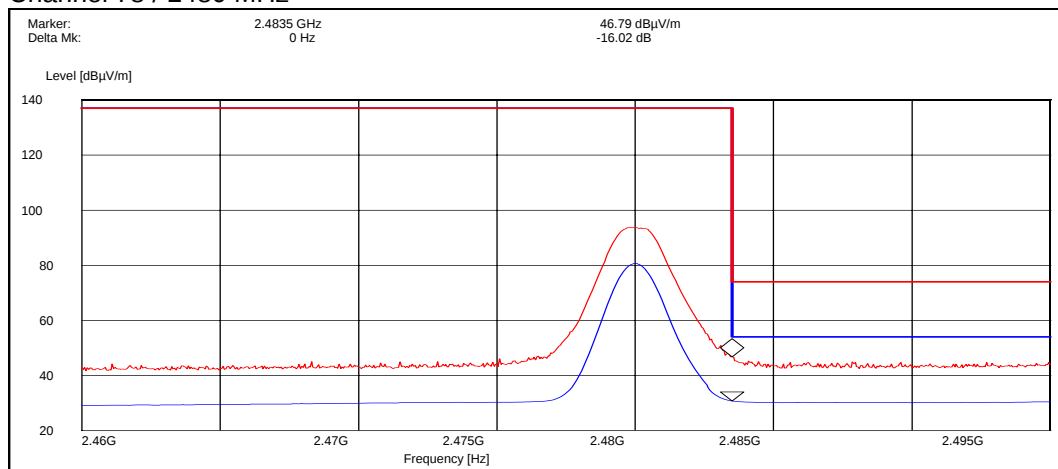
3.2.2 8DPSK modulation, PRBS packet type

Channel 0 / 2402 MHz



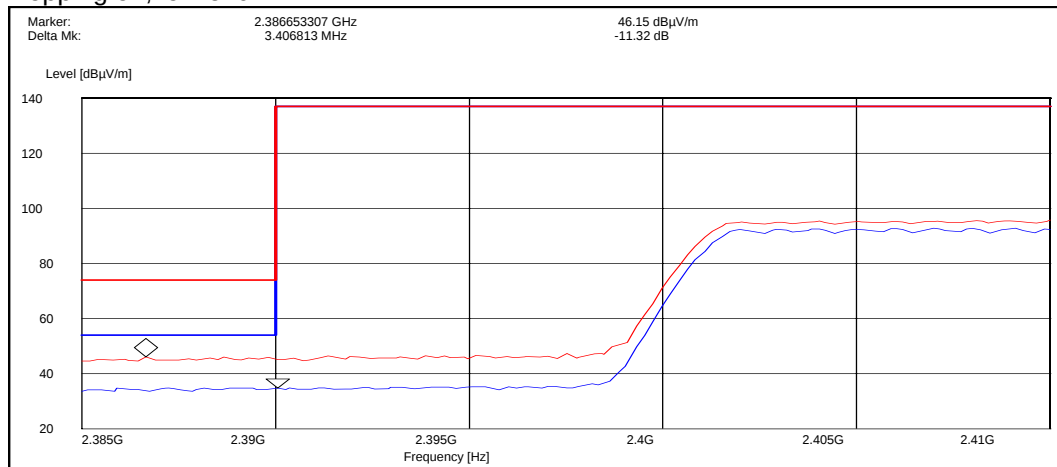
Detector (RBW: 1 MHz)	E [dB μ V/m]	Result
Peak	44.20	PASSED
Average	29.20	PASSED

Channel 78 / 2480 MHz



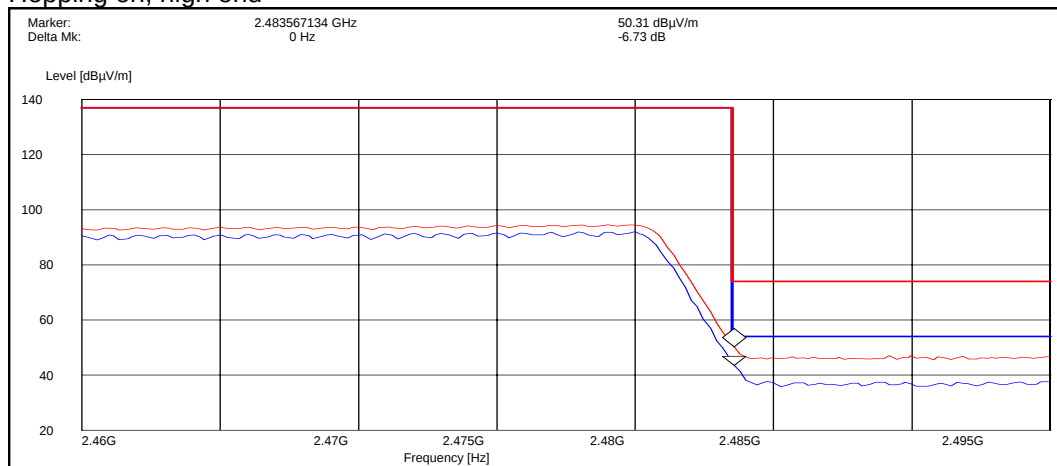
Detector (RBW: 1 MHz)	E [dB μ V/m]	Result
Peak	46.80	PASSED
Average	30.80	PASSED

Hopping on, low end



Detector (RBW: 1 MHz)	E [dB μ V/m]	Result
Peak	46.10	PASSED
Average	34.80	PASSED

Hopping on, high end



Detector (RBW: 1 MHz)	E [dB μ V/m]	Result
Peak	50.30	PASSED
Average	43.60	PASSED

4. Spurious radiated emissions (FCC §15.247(d), §15.209, RSS-210 A8.5)

EUT with DUT number	RM-443, DUT 13360
Accessories with DUT numbers	BL-5CT, DUT 13351; HS-125, DUT 13354; AC-8E, DUT 13359
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	19 / 42 / 102.9
Date of measurements	14-Jan-2009 – 15-Jan-2009
Measured by	Sami Lehtonen

4.1. Test method and limit

The measurement is made according to Public notice DA 00-705 and IC standard RSS-210 as follows:

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with absorbers on the floor and measuring antenna at fixed height using 2-axis EUT position system.

The Final Measurement is performed in the Semi-Anechoic Chamber with conducting metal floor, if the Preliminary Measurement results are closer than 20 dB to the permissible value.

The EUT is placed at nonconductive plate at the turntable center.

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

Limits for spurious radiated emissions measurements (3 m measurement distance)

Frequency range [MHz]	Limit [$\mu\text{V/m}$]	Limit [dB $\mu\text{V/m}$]	Detector
30 – 88	100	40	Quasi peak
88 – 216	150	43.5	Quasi peak
216 – 960	200	46	Quasi peak
960 – 1000	500	54	Quasi peak
Above 1000	500	54	Average
Above 1000	5000	74	Peak

4.2. Bluetooth Test results

4.2.1 GFSK modulation, PRBS packet type

Channel 0 / 2402 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U _{RX} [dB μV]	A _{TOT} [dB]	Polarisation	Result
4804.000000	44.70	171.79	43.70	1.0	VERTICAL	PASSED
7206.000000	47.50	237.14	44.60	2.9	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U _{RX} [dB μV]	A _{TOT} [dB]	Polarisation	Result
4804.000000	31.60	38.02	30.60	1.0	VERTICAL	PASSED
7206.000000	33.70	48.42	30.80	2.9	VERTICAL	PASSED

Channel 40 / 2442 MHz

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U _{RX} [dB μV]	A _{TOT} [dB]	Polarisation	Result
38.076353	13.50	4.73	32.30	-18.8	VERTICAL	PASSED
49.097996	12.20	4.07	37.60	-25.4	VERTICAL	PASSED

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U _{RX} [dB μV]	A _{TOT} [dB]	Polarisation	Result
4852.697395	44.30	164.06	42.70	1.6	VERTICAL	PASSED
12493.485972	52.80	436.52	41.10	11.7	VERTICAL	PASSED
13307.121242	53.00	446.68	40.30	12.7	VERTICAL	PASSED
15373.241483	56.20	645.65	37.90	18.3	VERTICAL	PASSED
15563.628257	55.80	616.60	38.10	17.7	VERTICAL	PASSED
16055.112224	56.90	699.84	36.60	20.3	VERTICAL	PASSED
17953.901804	57.80	776.25	37.90	19.9	VERTICAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dB $\mu\text{V/m}$]	E [$\mu\text{V/m}$]	U _{RX} [dB μV]	A _{TOT} [dB]	Polarisation	Result
4845.197395	32.10	40.27	30.60	1.5	VERTICAL	PASSED
12489.485972	40.20	102.33	28.50	11.7	VERTICAL	PASSED
13310.621242	40.70	108.39	27.90	12.8	VERTICAL	PASSED
15371.741483	43.40	147.91	25.20	18.2	VERTICAL	PASSED

15567.128257	42.60	134.90	24.90	17.7	VERTICAL	PASSED
16054.112224	44.40	165.96	24.00	20.4	VERTICAL	PASSED
17950.901804	44.70	171.79	24.80	19.9	VERTICAL	PASSED

Channel 78 / 2480 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.000000	43.80	154.88	43.60	0.2	HORIZONTAL	PASSED
7440.000000	48.00	251.19	43.60	4.4	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.000000	31.00	35.48	30.80	0.2	HORIZONTAL	PASSED
7440.000000	34.90	55.59	30.50	4.4	HORIZONTAL	PASSED

4.2.2 8DPSK modulation, PRBS packet type

Channel 0 / 2402 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4804.000000	44.90	175.79	43.90	1.0	VERTICAL	PASSED
7206.000000	46.40	208.93	43.50	2.9	VERTICAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4804.000000	32.10	40.27	31.10	1.0	HORIZONTAL	PASSED
7206.000000	33.70	48.42	30.80	2.9	VERTICAL	PASSED

Channel 40 / 2442 MHz

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
37.595391	14.20	5.13	32.70	-18.5	VERTICAL	PASSED
74.948497	6.30	2.07	34.10	-27.8	VERTICAL	PASSED
74.969940	9.90	3.13	37.70	-27.8	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
4883.769539	45.10	179.89	43.80	1.3	HORIZONTAL	PASSED
12458.913828	53.20	457.09	41.50	11.7	VERTICAL	PASSED
13387.777555	54.10	506.99	40.60	13.5	VERTICAL	PASSED
15373.747495	56.00	630.96	37.60	18.4	VERTICAL	PASSED
15775.051102	55.70	609.54	38.20	17.5	VERTICAL	PASSED
16029.556112	57.30	732.82	37.10	20.2	HORIZONTAL	PASSED
17978.463928	58.30	822.24	37.90	20.4	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4883.769539	32.20	40.74	30.90	1.3	HORIZONTAL	PASSED
12454.413828	40.10	101.16	28.40	11.7	VERTICAL	PASSED
13385.777555	40.50	105.93	27.00	13.5	VERTICAL	PASSED
15376.747495	43.50	149.62	25.20	18.3	VERTICAL	PASSED
15771.551102	42.60	134.90	25.30	17.3	VERTICAL	PASSED
16028.556112	44.00	158.49	23.80	20.2	HORIZONTAL	PASSED
17980.963928	44.20	162.18	23.90	20.3	HORIZONTAL	PASSED

Channel 78 / 2480 MHz

Peak (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.000000	43.60	151.36	43.40	0.2	HORIZONTAL	PASSED
7440.000000	47.50	237.14	43.10	4.4	HORIZONTAL	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.000000	31.40	37.15	31.20	0.2	HORIZONTAL	PASSED
7440.000000	34.90	55.59	30.50	4.4	HORIZONTAL	PASSED

5. AC powerline conducted emissions (FCC §15.207, RSS-GEN 7.2.2)

EUT with DUT number	RM-443, DUT 13360
Accessories with DUT numbers	BL-5CT, DUT 13351; HS-125, DUT 13354; AC-8E, DUT 13359
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 45 / 100
Date of measurements	31-Feb-2008
Measured by	Anni Manninen

5.1. Test method and limit

The measurement is made according to Public notice DA 00-705 and IC standard RSS-GEN 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.

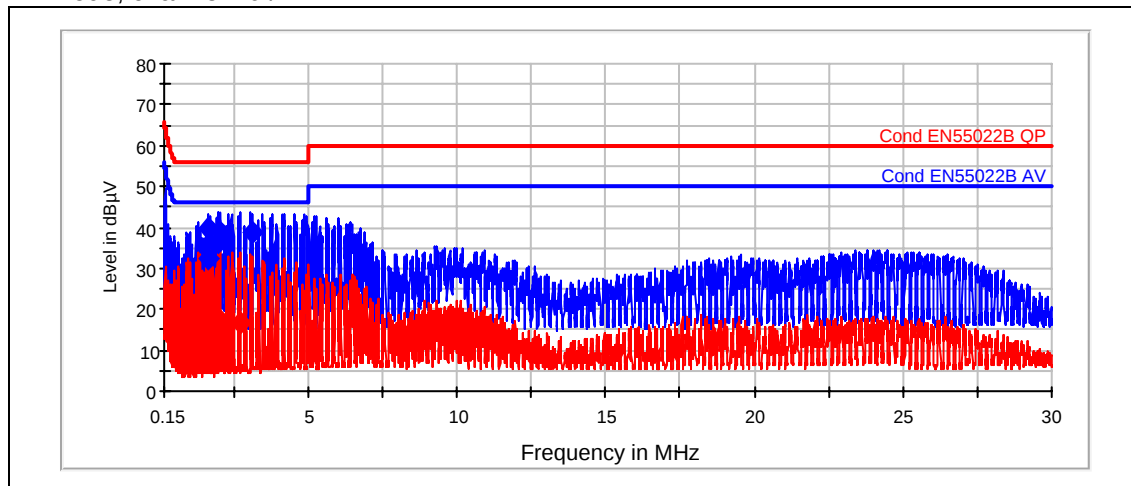
CISPR 22 Class B limits

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

5.2. Bluetooth Test results

5.2.1 GFSK modulation, PRBS packet type

TX mode, channel 40 / 2442 MHz



Quasi peak (RBW: 9 kHz)

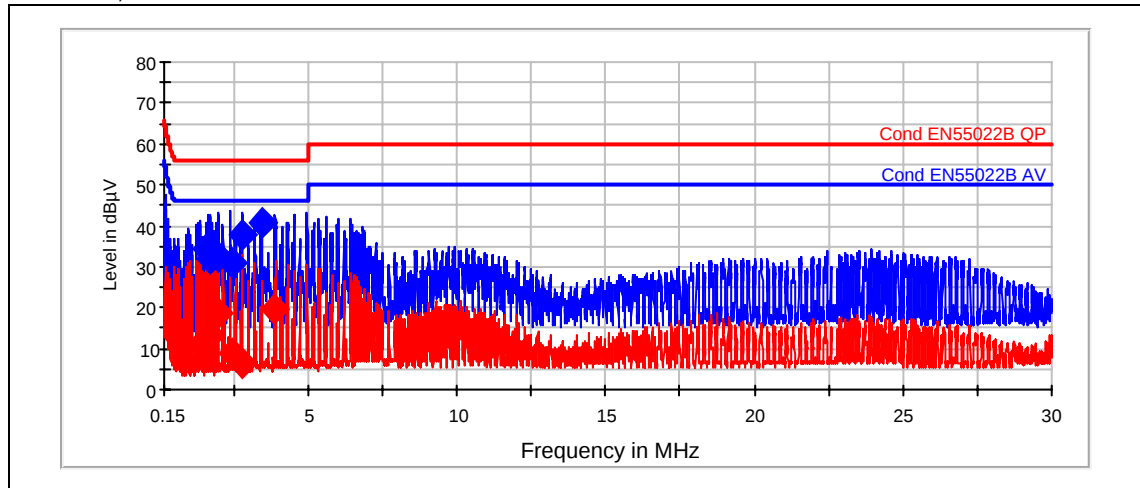
Freq. [MHz]	Quasi peak [dBμV]	BW [kHz]	PE	Line	Corr. [dB]	Margin [dB]	Limit [dBμV]	Result
1.620	39.75	9	GND	L1	9.85	16.30	56.0	PASSED
1.665	32.42	9	GND	L1	9.86	23.60	56.0	PASSED
1.995	36.43	9	GND	L1	9.89	19.60	56.0	PASSED
2.040	38.63	9	GND	L1	9.89	17.40	56.0	PASSED
3.110	38.56	9	GND	L1	9.90	17.40	56.0	PASSED

Average (RBW: 9 kHz)

Freq. [MHz]	Average [dBμV]	BW [kHz]	PE	Line	Corr. [dB]	Margin [dB]	Limit [dBμV]	Result
1.625	25.91	9	GND	L1	9.85	20.10	46.0	PASSED
1.670	19.77	9	GND	L1	9.86	26.20	46.0	PASSED
1.995	17.67	9	GND	L1	9.89	28.30	46.0	PASSED
2.035	14.42	9	GND	L1	9.89	31.60	46.0	PASSED
2.040	16.68	9	GND	N	9.89	29.30	46.0	PASSED
2.700	16.53	9	GND	L1	9.89	29.50	46.0	PASSED

5.2.2 8DPSK modulation, PRBS packet type

TX mode, channel 40 / 2442 MHz



Quasi peak (RBW: 9 kHz)

Freq. [MHz]	Quasi peak [dBμV]	BW [kHz]	PE	Line	Corr. [dB]	Margin [dB]	Limit [dBμV]	Result
1.575	34.52	9	GND	L1	9.85	21.50	56.0	PASSED
1.700	32.11	9	GND	L1	9.86	23.90	56.0	PASSED
2.000	32.21	9	GND	L1	9.89	23.80	56.0	PASSED
2.430	30.73	9	GND	L1	9.89	25.30	56.0	PASSED
2.785	37.90	9	GND	L1	9.89	18.10	56.0	PASSED
3.475	40.76	9	GND	L1	9.94	15.20	56.0	PASSED

Average (RBW: 9 kHz)

Freq. [MHz]	Average [dBμV]	BW [kHz]	PE	Line	Corr. [dB]	Margin [dB]	Limit [dBμV]	Result
1.385	10.93	9	GND	L1	9.83	35.10	46.0	PASSED
1.720	13.07	9	GND	L1	9.86	32.90	46.0	PASSED
1.945	18.85	9	GND	L1	9.88	27.20	46.0	PASSED
2.415	8.68	9	GND	N	9.89	37.30	46.0	PASSED
2.790	6.27	9	GND	L1	9.89	39.70	46.0	PASSED
3.860	19.75	9	GND	L1	9.98	26.30	46.0	PASSED

6. Test Equipment

6.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
1742	EMI Test Receiver	ESMI	R&S	15C, 15B
1759	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
1872	Thermo- Hygrograph	00.02520.150700	Lambrecht	15C, 15B
1916	Radio Communication tester	CMTA84	R&S	15C, 15B
2039	Power Supply	PL330QMD	THURLBY	15C, 15B
2060	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
2068	CDN-Antenna line	S1	NMP	15C, 15B
2097	Pulse Limiter	ESH3-Z2	R&S	15C, 15B
2111	Multimeter	TX3	Tektronix	15C, 15B
2156	Digital Radio Communication Tester	CMU200	R&S	15C, 15B
2206	Signal generator	SMX	R&S	15C, 15B
2335	GPIB Switch 2 to 1	-	National Instruments	15C, 15B
2347	Digital Radio Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2352	Spectrum Analyzer	FSP	R&S	22/24/27, 15C
2359	Temperature Test system	VT4002	Vötsch Industrietechnik	22/24/27
2360	Serial Bus Converter	Serial 488A	IO Tech	22/24/27
2362	Power Supply	NGPX 70/5	R&S	22/24/27
2388	Bluetooth Tester	CBT	R&S	15C, 15B
-	RF Emission Software	ES-K1 v.1.71	R&S	22/24/27, 15C, 15B

6.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
1748	Log. per. Antenna	HL025	R&S	22/24/27, 15C
1749	Log. per. Antenna	HL025	R&S	22/24/27, 15C
1875	Thermo- Hygrograph	00.02520.150700	Lambrecht	22/24/27, 15C, 15B
1917	Radio Communication tester	CMTA84	R&S	22/24/27, 15C, 15B
1933	Precision half-wave dipole antennas	HZ-13	R&S	22/24/27, 15C
1938	Precision half-wave dipole antennas	HZ-12	R&S	22/24/27, 15C
2006	Radiation Reference Source	VSQ	MEB	22/24/27, 15C, 15B
2009	Signal generator	SMP 22	R&S	22/24/27, 15C, 15B
2019	Multimeter	34401A	HP	22/24/27, 15C, 15B
2027	Coupling and Decoupling Network	M2 (modified) DC1	MEB	22/24/27, 15C, 15B
2028	Coupling and Decoupling Network	M3 (modified) DC2	MEB	22/24/27, 15C, 15B
2029	Power Supply	PL330	THURLBY	22/24/27, 15C, 15B
2043	Band Reject Filter	WRCA824/849-0.2-6SS	Wainwright	22, 15C, 15B
2047	Band Reject Filter	WRCC1800/2000-0.2-10SS	Wainwright	24, 15C, 15B
2048	Band Reject Filter	WRCC1700/1800-0.2-10SS	Wainwright	27, 15C, 15B
2051	High Pass Filter	4HC1700-1-KK	R&S	22/24/27, 15C
2057	Log. per. Antenna	HL025	R&S	22/24/27, 15C
2109	Power Supply	PL330QMD	THURLBY	22/24/27, 15C, 15B
2110	Multimeter	34401A	HP	22/24/27, 15C, 15B
2112	Multimeter	TX3	Tektronix	22/24/27, 15C, 15B
2116	Controller	EMCO MODEL 2090	ETS	22/24/27, 15C, 15B
2133	Power Meter	NRVS	R&S	22/24/27, 15C
2134	Power Sensor	NRV-Z32	R&S	22/24/27, 15C
2135	Coupling and Decoupling Network	CDN 801-M3	LÜTHI	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
2138	Ultra Broadband Antenna	HL562	R&S	22/24/27, 15C, 15B
2140	Biconical Antenna	EMCO93110B	EMCO	22/24/27, 15C
2142	Log.-per.-dipol Antenna	3146	EMCO	22/24/27, 15C
2144	Attenuator	6803.17B	Huber-Suhner	22/24/27, 15C, 15B
2150	High Pass Filter	F-15041	RLC ELECTRONICS	22/24/27, 15C
2176	Coupling and Decoupling Network	CDN 801-M3	LÜTHI	22/24/27, 15C, 15B
2180	Digital Radio Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2188	Preamplifier	AFS4-00100300-20-23P-6	MITEQ	22/24/27, 15C, 15B
2330	EMI Test receiver	ESIB26	R&S	22/24/27, 15C, 15B
2334	GPIB Switch 2 to 1	-	National Instruments	22/24/27, 15C, 15B
2348	Yaesu controller	G-1000DXC	YAESU	22/24/27, 15C, 15B
2349	Computer controller (Yaesu)	GS-232B	YAESU	22/24/27, 15C, 15B
2350	Preamplifier	AMF-6D-020180-29-20P	MITEQ	22/24/27, 15C
2361	Anechoic chamber	3 meter semi/full anechoic chamber	Euroshield	22/24/27, 15C, 15B
2398	Horn antenna	HF906	R&S	22/24/27, 15C
2363	Band Reject Filter	WRCG 832/838-825/845/5SS	Wainwright	22/24/27
2364	Band Reject Filter	WRCG1877/1883 - 1870/1890-40/6SS	Wainwright	22/24/27
2365	Relay Switch Unit	TS-RSP	R&S	22/24/27, 15C, 15B
2366	Relay Switch Unit	TS-RSP	R&S	22/24/27, 15C, 15B
2384	Band Reject Filter	WRCG832/838-825/845-40/5SS	Wainwright	22/24/27
2388	Bluetooth Tester	CBT	R&S	15C, 15B
-	RF Emission Software	ES-K1 v.1.71	R&S	22/24/27, 15C, 15B