

FCC Part 15B Compliance Test Report

Test Report no.:	FCC15B_RX-51_04.doc	Date of Report:	15-Jul-2009
Number of pages:	13	Customer's Contact person:	Tuomo Pursiheimo
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FCC listing no.:	533467		
IC recognition no.:	661V-1		
Tested devices/ accessories:	Phone RX-51 / Battery BL-5J / Headset WH-205 / AC- Charger AC-10E		
FCC ID:	LJPRX-51	IC:	661E-RX-51
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 1, February 2008) 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:			

Kalle Hannila, Engineer, EMC

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	08-June-2009
Testing completed	09-Jul-2009
The customer's contact person	Tuomo Pursiheimo
Test Plan referred to	T:\Projects\RX-51\TestPlan_RS\RS_testplan_RX-51.xls
Notes	-
Document name	FCC15B_RX-51_04.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, WLAN and FM transmitter. 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	RX-51	004401107150431	2001		1.2009.22-15	13894
Battery	BL-5J	4620409094J1010002500670573				13912
Headset	WH-205	031	3.1A	3.1	-	13929
AC- Charger	AC-10E	3997918112240401179;0675408	-	-	-	12916
Phone	RX-51	004401107150423	2001	-	1.2009.22-15	13970
Battery	BL-5J	4620409094J1010003200670573	-	-	-	13967
Charger	AC-10E	399791836609050330860675408	-	-	-	13924
Headset	WH-205	06944219175C1R02518	-	-	-	13925

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	NP
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	PASSED
15.109, a	5.5 (6.6)	Radiated emissions	PASSED

PASSED
FAILED
NP

The EUT complies with the essential requirements in the standard.
The EUT does not comply with the essential requirements in the standard.
The test was not performed by the TCC Nokia Salo Laboratory.

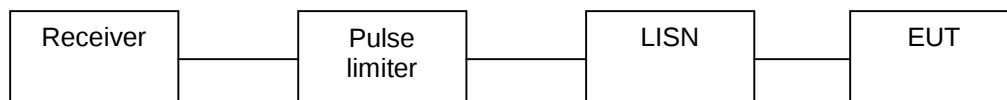
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2. AC powerline conducted emissions (FCC §15.107, ICES-003 section 5.3)

EUT with DUT number	RX-51, DUT; 13970
Accessories with DUT numbers	BL-5J, DUT 13967, AC-10E, DUT 13924, WH-205, DUT 13925
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	Test was done in WCDMA 1700 Idle-mode and FM-receiver was on during the test.
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 75 / 102,3
Date of measurements	01-Jul-2009
Measured by	Sami Lehtonen / Jouko Kaivonen

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:

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

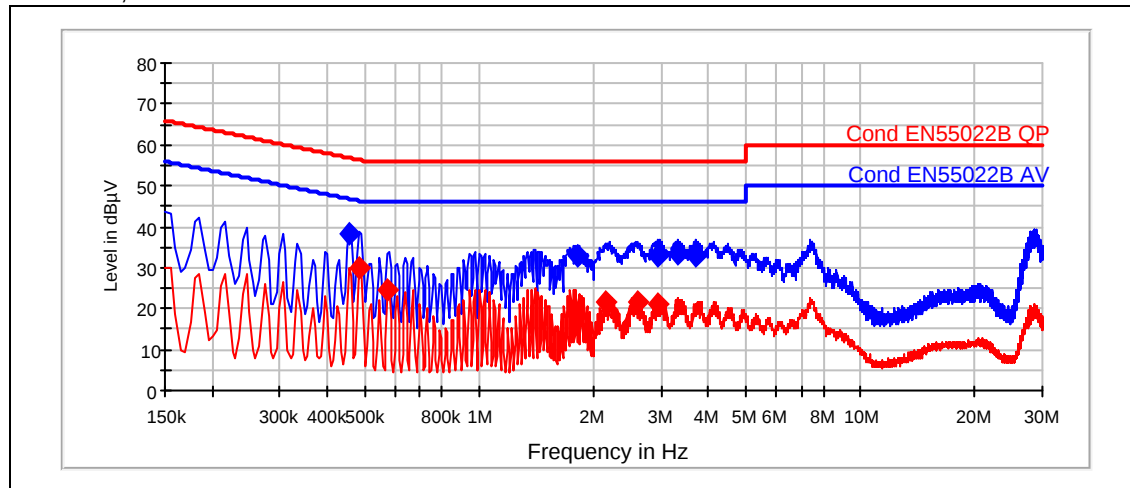
Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable and pulse limiter attenuations.

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. WCDMA 1700 Test results

RX mode, channel 1637 / 2132.4 MHz



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	Quasi peak [dBμV]	Line	Margin [dB]	Result
0.455	38.17	L1	18.58	PASSED
1.815	32.64	L1	23.40	PASSED
2.955	32.89	L1	23.10	PASSED
3.335	33.21	L1	22.80	PASSED
3.695	32.73	L1	23.30	PASSED

Average (RBW: 9 kHz)

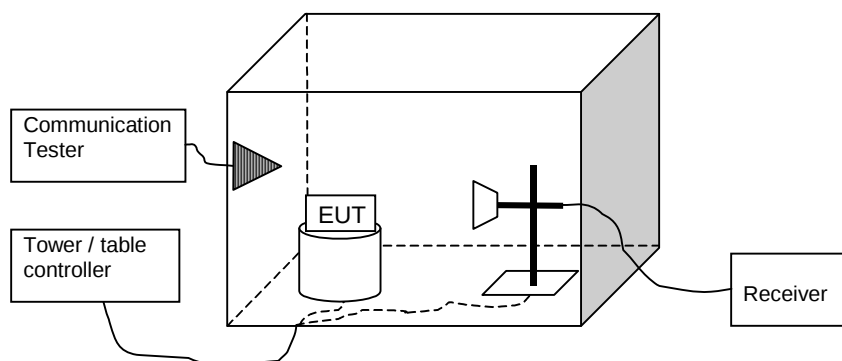
Frequency [MHz]	Average [dBμV]	Line	Margin [dB]	Result
0.485	29.88	L1	16.35	PASSED
0.575	24.75	L1	21.20	PASSED
2.150	21.77	L1	24.20	PASSED
2.595	21.68	L1	24.30	PASSED
2.925	20.91	L1	25.10	PASSED

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	RX-51, DUT 13894
Accessories with DUT numbers	BL-5J, DUT 13912; WH-205, DUT 13929; AC-10E, DUT 12916
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 42 / 101.6
Date of measurements	06-Jul-2009 – 09-Jul-2009
Measured by	Kalle Hannila / Sami Lehtonen

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

3.4. GSM 850 Test results, FM Radio active

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	44.60	169.82	46.40	-1.8	VERTICAL	PASSED
6953.600000	46.20	204.17	42.90	3.3	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3476.800000	30.60	33.88	32.40	-1.8	VERTICAL	PASSED
6953.600000	33.50	47.32	30.20	3.3	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
37.954910	30.80	34.67	43.80	-13.0	VERTICAL	PASSED
66.753106	31.60	38.02	54.30	-22.7	HORIZONTAL	PASSED
98.056112	49.00	281.84	69.80	-20.8	VERTICAL	*PASSED
117.635070	29.40	29.51	50.20	-20.8	VERTICAL	PASSED
136.211623	28.90	27.86	51.70	-22.8	VERTICAL	PASSED

*98.0 MHz frequency is FM radio carrier signal 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
2940.879760	52.60	426.58	48.50	4.1	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2937.879760	39.70	96.61	35.70	4.0	VERTICAL	PASSED
7493.483968	35.10	56.89	30.30	4.8	HORIZONTAL	PASSED
7975.945892	35.60	60.26	29.80	5.8	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	42.60	134.90	45.70	-3.1	VERTICAL	PASSED
7150.400000	46.60	213.80	43.90	2.7	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3575.200000	29.10	28.51	32.20	-3.1	VERTICAL	PASSED
7150.400000	33.80	48.98	31.10	2.7	VERTICAL	PASSED

3.5. GSM 1900 Test results, GPS active

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	42.20	128.82	45.00	-2.8	VERTICAL	PASSED
7720.000000	47.90	248.31	43.50	4.4	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3860.000000	29.10	28.51	31.90	-2.8	VERTICAL	PASSED
7720.000000	34.60	53.70	30.20	4.4	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
39.919238	31.40	37.15	45.50	-14.1	VERTICAL	PASSED
57.655311	21.50	11.89	45.20	-23.7	VERTICAL	PASSED
66.312625	28.00	25.12	50.80	-22.8	HORIZONTAL	PASSED
78.577154	26.90	22.13	48.10	-21.2	VERTICAL	PASSED
136.333066	33.50	47.32	56.30	-22.8	VERTICAL	PASSED
177.957114	32.90	44.16	58.30	-25.4	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
2942.379760	52.60	426.58	48.60	4.0	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2942.379760	39.70	96.61	35.70	4.0	HORIZONTAL	PASSED
7493.481964	34.90	55.59	30.10	4.8	HORIZONTAL	PASSED
7975.943888	35.60	60.26	29.80	5.8	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	42.20	128.82	44.80	-2.6	HORIZONTAL	PASSED
7960.000000	47.90	248.31	42.20	5.7	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3980.000000	29.30	29.17	31.90	-2.6	VERTICAL	PASSED
7960.000000	35.10	56.89	29.40	5.7	VERTICAL	PASSED

3.6. WCDMA 1700 Test results, FM Radio active

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
4224.800000	45.30	184.08	46.10	-0.80	VERTICAL	PASSED
6337.200000	45.80	194.98	43.70	2.10	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4224.800000	35.60	60.26	36.40	-0.80	VERTICAL	PASSED
6337.200000	32.50	42.17	30.40	2.10	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
40.059719	31.40	37.15	45.60	-14.20	VERTICAL	PASSED
66.412625	29.20	28.84	52.00	-22.80	HORIZONTAL	PASSED
78.696192	26.30	20.65	47.40	-21.10	VERTICAL	PASSED
97.956112	51.00	354.81	71.80	-20.80	VERTICAL	*PASSED
137.254509	33.30	46.24	56.30	-23.00	VERTICAL	PASSED
179.358317	33.40	46.77	58.90	-25.50	VERTICAL	PASSED

*98.0 MHz frequency is FM radio carrier signal 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
1427.361723	42.90	139.64	47.60	-4.70	VERTICAL	PASSED
1475.455912	43.70	153.11	48.50	-4.80	VERTICAL	PASSED
1715.938878	45.00	177.83	48.20	-3.20	HORIZONTAL	PASSED
1999.497996	47.30	231.74	47.80	-0.50	HORIZONTAL	PASSED
2942.877756	52.60	426.58	48.70	3.90	VERTICAL	PASSED
5246.986974	47.80	245.47	45.50	2.30	HORIZONTAL	PASSED
5792.591182	49.20	288.40	45.90	3.30	VERTICAL	PASSED
6396.789579	45.30	184.08	43.30	2.00	HORIZONTAL	PASSED
6917.327655	46.10	201.84	43.10	3.00	HORIZONTAL	PASSED
7491.977956	47.80	245.47	43.00	4.80	VERTICAL	PASSED
7973.441884	49.00	281.84	43.20	5.80	HORIZONTAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
1483.469940	30.20	32.36	34.90	-4.70	VERTICAL	PASSED
1713.926854	31.70	38.46	34.90	-3.20	VERTICAL	PASSED
2001.500000	34.40	52.48	34.90	-0.50	VERTICAL	PASSED
2048.092184	34.40	52.48	35.00	-0.60	VERTICAL	PASSED
2942.379760	39.70	96.61	35.70	4.00	VERTICAL	PASSED
5770.037074	35.10	56.89	32.30	2.80	HORIZONTAL	PASSED
5807.615230	35.70	60.95	32.30	3.40	HORIZONTAL	PASSED
6239.980962	33.20	45.71	30.90	2.30	HORIZONTAL	PASSED
6932.361723	33.60	47.86	30.50	3.10	VERTICAL	PASSED
7502.500000	35.30	58.21	30.40	4.90	HORIZONTAL	PASSED
7974.941884	35.60	60.26	29.80	5.80	HORIZONTAL	PASSED

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
4305.200000	43.30	146.22	44.00	-0.70	HORIZONTAL	PASSED
6457.800000	44.50	167.88	42.70	1.80	VERTICAL	PASSED

Average (RBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4305.200000	30.70	34.28	31.40	-0.70	VERTICAL	PASSED
6457.800000	32.10	40.27	30.30	1.80	VERTICAL	PASSED

4. Test Equipment

4.1. 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

4.2. 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