

FCC Part 22/24/27 Compliance Test Report

Test Report no.:	FCC22&24&27_RM-893_02.docx	Date of Report:	20-May-2013
Number of pages:	15	Customer's Contact person:	Jari Rontu
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FCC listing no.:	533467		
IC recognition no.:	661V-1		
Tested devices/ accessories:	Phone RM-893 / Battery BL-4YW (LG) / Headset WH-208 / AC-charger AC-50E		
FCC ID:	PYAA1	IC:	661V-A1
Supplement reports:	-		
Testing has been carried out in accordance with:	CFR 47, FCC rules Parts 22/24/27 , TIA-603-C-2004 and IC standards, RSS-GEN (Issue 3, December 2010), RSS-132 (Issue 2, September 2005), RSS-133 (Issue 5, February 2009), RSS-139 (Issue 2, February 2009). 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:			

Sami Lehtonen, Specialist, EMC

1. Summary for FCC Part 22/24/27 Compliance Test Report

Date of receipt	23-Apr-2013
Testing completed	19-May-2013
The customer's contact person	Jari Rontu
Test Plan referred to	T:\Projects\RM-893\TestPlan\RS_testplan_RM-893_EMC_FCC_SAR_HAC.xlsm
Notes	-
Document name	T:\Projects\RM-893\EMC\FCC22&24&27_RM-893_02.docx

1.1. EUT and Accessory Information

The EUT is a mobile phone with following features:
GSM/WCDMA/WLAN/Bluetooth
The EUT is tested with maximum rated TX power.

Devices under tests

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-893	355519050003003	0421	-	3036.0000.1316.10072	17389
Battery	BL-4YW (LG)	-	4.0	-	-	17390
Headset	WH-208	2332271	-	-	-	17346
AC-charger	AC-50E	40904925045905009400575619	-	-	-	17350

1.2. Summary of Test Results

GSM850:

Section in CFR 47	Section in RSS-GEN or RSS-132	Name of the test	Result
§2.1046(a), 22.913(a)	4.4	Conducted RF output power	-
§22.913(a)	4.4	Radiated RF output power	-
§2.1049(h)	4.6.1	99 % occupied bandwidth	-
§22.917(a)	4.5	Band edge compliance	-
§22.917(a), §2.1051	4.5	Spurious emissions at antenna terminals	-
§22.917(a), §2.1053	4.5	Spurious radiated emissions	PASSED
§2.1055(a)	4.3	Frequency stability, temperature variation	-
§2.1055(d)	4.3	Frequency stability, voltage variation	-

WCDMA 850 (Band V):

Section in CFR 47	Section in RSS-GEN or RSS-132	Name of the test	Result
§2.1046(a), 22.913(a)	4.4	Conducted RF output power	-
§22.913(a)	4.4	Radiated RF output power	-
§2.1049(h)	4.6.1	99 % occupied bandwidth	-
§22.917(a)	4.5	Band edge compliance	-
§22.917(a), §2.1051	4.5	Spurious emissions at antenna terminals	-
§22.917(a), §2.1053	4.5	Spurious radiated emissions	PASSED
§2.1055(a)	4.3	Frequency stability, temperature variation	-
§2.1055(d)	4.3	Frequency stability, voltage variation	-

LTE 850 (Band V):

Section in CFR 47	Section in RSS-GEN or RSS-132	Name of the test	Result
§2.1046(a), 22.913(a)	4.4	Conducted RF output power	-
§22.913(a)	4.4	Radiated RF output power	-
§2.1049(h)	4.6.1	99 % occupied bandwidth	-

§22.917(a)	4.5	Band edge compliance	-
§22.917(a), §2.1051	4.5	Spurious emissions at antenna terminals	-
§22.917(a), §2.1053	4.5	Spurious radiated emissions	PASSED
§2.1055(a)	4.3	Frequency stability, temperature variation	-
§2.1055(d)	4.3	Frequency stability, voltage variation	-

GSM1900:

Section in CFR 47	Section in RSS-GEN or RSS-133	Name of the test	Result
§2.1046(a)	6.4	Conducted RF output power	-
§24.232(b)	6.4	Radiated RF output power	-
§2.1049(h)	4.6.1	99 % occupied bandwidth	-
§24.238(a)	6.5	Band edge compliance	-
§24.238(a), §2.1051	6.5	Spurious emissions at antenna terminals	-
§24.238(a), §2.1053	6.5	Spurious radiated emissions	PASSED
§2.1055(a)	6.3	Frequency stability, temperature variation	-
§2.1055(d)	6.3	Frequency stability, voltage variation	-

WCDMA 1900 (Band II):

Section in CFR 47	Section in RSS-GEN or RSS-133	Name of the test	Result
§2.1046(a)	6.4	Conducted RF output power	-
§24.232(b)	6.4	Radiated RF output power	-
§2.1049(h)	4.6.1	99 % occupied bandwidth	-
§24.238(a)	6.5	Band edge compliance	-
§24.238(a), §2.1051	6.5	Spurious emissions at antenna terminals	-
§24.238(a), §2.1053	6.5	Spurious radiated emissions	PASSED
§2.1055(a)	6.3	Frequency stability, temperature variation	-
§2.1055(d)	6.3	Frequency stability, voltage variation	-

LTE 1900 (Band II):

Section in CFR 47	Section in RSS-GEN or RSS-133	Name of the test	Result
§2.1046(a)	6.4	Conducted RF output power	-
§24.232(b)	6.4	Radiated RF output power	-
§2.1049(h)	4.6.1	99 % occupied bandwidth	-
§24.238(a)	6.5	Band edge compliance	-
§24.238(a), §2.1051	6.5	Spurious emissions at antenna terminals	-
§24.238(a), §2.1053	6.5	Spurious radiated emissions	PASSED
§2.1055(a)	6.3	Frequency stability, temperature variation	-
§2.1055(d)	6.3	Frequency stability, voltage variation	-

WCDMA 1700 (Band IV):

Section in CFR 47	Section in RSS-GEN or RSS-139	Name of the test	Result
§2.1046(a)	6.4	Conducted RF output power	-
§27.50(d)(2)	6.4	Radiated RF output power	-
§2.1049(h)	4.6.1	99 % occupied bandwidth	-
§27.53(g)	6.5	Band edge compliance	-
§27.53(g), §2.1051	6.5	Spurious emissions at antenna terminals	-
§24.238(a), §2.1053	6.5	Spurious radiated emissions	PASSED
§2.1055(a)	6.3	Frequency stability, temperature variation	-
§2.1055(d)	6.3	Frequency stability, voltage variation	-

LTE1700 (Band 4):

Section in CFR 47	Section in RSS-GEN or RSS-139	Name of the test	Result
§2.1046(a)	6.4	Conducted RF output power	-
§27.50(d)(4)	6.4	Radiated RF output power	-
§2.1049(h)	4.6.1	99 % occupied bandwidth	-
§27.53(h)	6.5	Band edge compliance	-
§27.53(h), §2.1051	6.5	Spurious emissions at antenna terminals	-
§27.53(h), §2.1053	6.5	Spurious radiated emissions	PASSED
§2.1055(a)	6.3	Frequency stability, temperature variation	-
§2.1055(d)	6.3	Frequency stability, voltage variation	-

LTE700 Lower (Band 17):

Section in CFR 47	Section in RSS-GEN or RSS-133	Name of the test	Result
§2.1046 (a)	N/A	Conducted RF output power	-
§27.50(c)(10)	N/A	Radiated RF output power	-
§2.1049(h)	N/A	99 % occupied bandwidth	-
§27.53(g)	N/A	Band edge compliance	-
§27.53(g), §2.1051	N/A	Spurious emissions at antenna terminals	-
§27.53(g), §2.1051	N/A	Spurious radiated emissions	PASSED
§2.1055(a)	N/A	Frequency stability, temperature variation	-
§2.1055(d)	N/A	Frequency stability, voltage variation	-

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 Laboratory.

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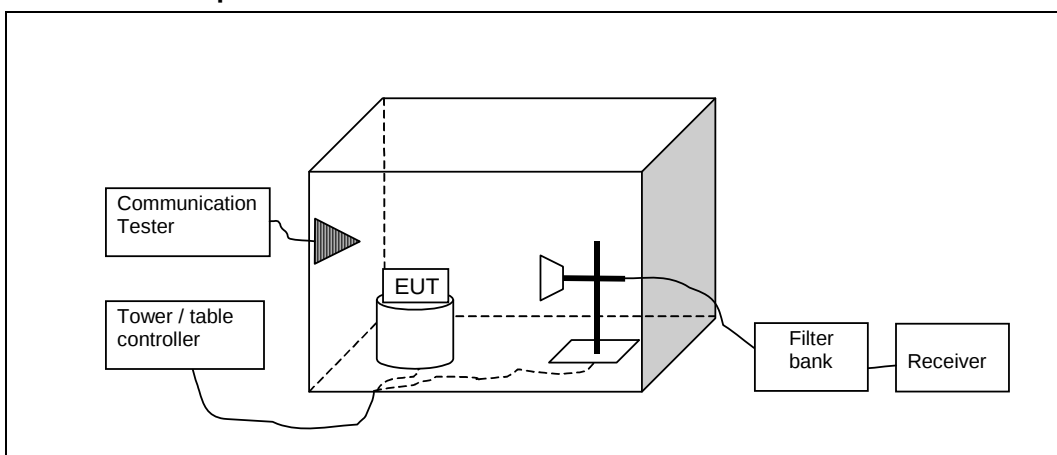
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2. Spurious radiated emissions

(FCC §22.917(a), §2.1053, §24.238(a), §2.1053, §27.53(g), §2.1053, §27.53(h), §27.53(g), RSS-132 4.5, RSS-133 6.5)

EUT with DUT number	RM-893, DUT 17389
Accessories with DUT numbers	BL-4YW (LG), DUT 17390 ; WH-208, DUT 17346 ; AC-50E, DUT 17350
Operation Voltage [V] / [Hz]	115 / 60
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 44 / 101.3
Date of measurements	16-May-2013 & 18-19-May-2013
Measured by	Kalle Hannila / Sami Lehtonen

2.1.1 Test setup



2.2. Test method and limit

The measurement is made according to TIA-603-C-2004 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 substitution method is used.

The measurement results are obtained as described below:

$$P [dBm] = P_{SUBST\ TX} + G_{SUBST\ TX\ ANT} - L_{SUBST\ CABLE}$$

Where $P_{SUBST\ TX}$ is signal generator level, which produces the same receiver reading P_{MEAS} in dBm as EUT. $G_{SUBST\ TX\ ANT}$ is substitution antenna gain and $L_{SUBST\ CABLE}$ is the loss of the cable between the signal generator and the substitution antenna.

Limits for spurious radiated emissions measurements

Operation band	Frequency range [MHz]	Limit [dBm]
LTE 700 Lower	30 - 7200	-13 (RBW = 100 kHz, ERP)
GSM850 / WCDMA850 / LTE850	30 - 8500	-13
WCDMA1700 / LTE1700 / / GSM1900 / WCDMA1900 / LTE1900	30 - 18000	-13

2.3. GSM850 TX test results

Peak detector

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
848.786	-62.84	0.00052	-61.04	-1.8	HORIZONTAL	PASSED
1656.994	-58.3	0.00148	-64.48	6.18	VERTICAL	PASSED
1672.986	-56.09	0.00246	-62.2	6.11	VERTICAL	PASSED
2527.615	-51.85	0.00653	-63.84	11.99	VERTICAL	PASSED
2545.611	-52.22	0.006	-64.13	11.91	VERTICAL	PASSED
3303.527	-59.22	0.0012	-63.65	4.43	VERTICAL	PASSED

2.4. GSM1900 TX test results

Peak detector

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
9347.495	-44.09	0.03904	-66.12	22.03	HORIZONTAL	PASSED
9485.21	-44.16	0.03838	-66.22	22.06	HORIZONTAL	PASSED
9793.186	-43.83	0.04137	-66.92	23.09	HORIZONTAL	PASSED
9918.677	-42.71	0.05357	-66.15	23.44	HORIZONTAL	PASSED
9941.065	-42.37	0.05792	-64.93	22.56	VERTICAL	PASSED
10008.537	-43.17	0.04818	-65.85	22.68	VERTICAL	PASSED

2.5. GSM850-E1 TX test results

Peak detector

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
849.081	-67.38	0.00018	-65.53	-1.85	HORIZONTAL	PASSED
1672.886	-56.99	0.002	-63.09	6.1	VERTICAL	PASSED
1673.246	-56.99	0.002	-63.1	6.11	VERTICAL	PASSED
2500.261	-52.62	0.00547	-63.78	11.16	VERTICAL	PASSED
2522.986	-52.05	0.00624	-63.8	11.75	VERTICAL	PASSED
3352.044	-59.79	0.00105	-64.43	4.64	VERTICAL	PASSED

2.6. WCDMA 1900 (Band II) test results

Channel 9400 / 1880.0 MHz

FDD mode, Peak detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
8972.725	-43.83	0.04139	-64.81	20.98	HORIZONTAL	PASSED
9798.978	-42.96	0.05063	-66.08	23.12	HORIZONTAL	PASSED
9897.255	-42.61	0.05488	-65.16	22.55	VERTICAL	PASSED
9931.964	-42.79	0.05264	-65.58	22.79	HORIZONTAL	PASSED
10003.667	-43.19	0.04794	-65.86	22.67	VERTICAL	PASSED
10989.319	-40	0.1	-65.05	25.05	HORIZONTAL	PASSED

2.7. WCDMA 1700 (Band IV) test results

Channel 1412 / 1732.4 MHz

FDD mode, Peak detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
1714.76	-40.23	0.09484	-47.96	7.73	HORIZONTAL	PASSED
1755.361	-44.51	0.03542	-52.47	7.96	HORIZONTAL	PASSED
9671.323	-43.83	0.04141	-66.03	22.2	HORIZONTAL	PASSED
9792.485	-42.1	0.06166	-65.18	23.08	HORIZONTAL	PASSED
9814.569	-42.84	0.05198	-65.73	22.89	HORIZONTAL	PASSED
9920.461	-42.04	0.06247	-65.5	23.46	HORIZONTAL	PASSED

2.8. WCDMA 850 (Band V) test results

Channel 4175 / 835.0 MHz

FDD mode, Peak detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
848.241	-45.2	0.03022	-80.14	34.94	VERTICAL	PASSED
852.259	-45.93	0.02552	-80.65	34.72	VERTICAL	PASSED
878.627	-38.57	0.13916	-74.32	35.75	VERTICAL	PASSED
960.135	-40.01	0.09986	-80.38	40.37	HORIZONTAL	PASSED
960.436	-39.67	0.10784	-80	40.33	HORIZONTAL	PASSED
963.417	-40.1	0.09766	-80.05	39.95	HORIZONTAL	PASSED

2.9. GSM1900-E1 TX test results

Peak detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
9317.816	-44.7	0.03392	-66.82	22.12	HORIZONTAL	PASSED
9503.026	-43.66	0.04305	-65.93	22.27	HORIZONTAL	PASSED
9797.615	-42.02	0.06275	-65.13	23.11	HORIZONTAL	PASSED
9896.733	-43.87	0.04106	-66.82	22.95	HORIZONTAL	PASSED
9960.18	-43.02	0.04995	-65.49	22.47	VERTICAL	PASSED
10005.731	-43.49	0.04474	-66.15	22.66	VERTICAL	PASSED

2.10. LTE 1900 (Band II) test results

Channel 18900 / 1880.0 MHz

FDD, CBW 5MHz, QPSK, 1 RB, RMS detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
1844.267	-63.87	0.00041	-72.74	8.87	VERTICAL	PASSED
3756.172	-67.46	0.00018	-74.96	7.5	HORIZONTAL	PASSED
5641.703	-61.59	0.00069	-72.74	11.15	HORIZONTAL	PASSED
7522.866	-58.62	0.00137	-75.33	16.71	HORIZONTAL	PASSED

Channel 18900 / 1880.0 MHz

FDD, CBW 5MHz, 16QAM, 1 RB, RMS detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
1850.454	-59.44	0.00114	-67.45	8.01	HORIZONTAL	PASSED
1909.641	-57.91	0.00162	-66.86	8.95	HORIZONTAL	PASSED
3766.874	-67.47	0.00018	-74.96	7.49	HORIZONTAL	PASSED
5642.906	-61.63	0.00069	-72.74	11.11	HORIZONTAL	PASSED
7516.653	-58.77	0.00133	-75.33	16.56	HORIZONTAL	PASSED

2.11. LTE 1700 (Band IV) test results

Channel 20175 / 1732.5 MHz

FDD, CBW 5MHz, QPSK, 1 RB, RMS detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
3465.22	-65.52	0.00028	-72.19	6.67	HORIZONTAL	PASSED
5187.5	-61.98	0.00063	-73.32	11.34	VERTICAL	PASSED
6930.661	-57.9	0.00162	-72.19	14.29	VERTICAL	PASSED
8662.159	-55.95	0.00254	-76.12	20.17	HORIZONTAL	PASSED
10394.419	-52.61	0.00548	-76.55	23.94	VERTICAL	PASSED

Channel 20175 / 1732.5 MHz

FDD, CBW 5MHz, 16QAM, 1 RB, RMS detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
3465.22	-66.07	0.00025	-72.74	6.67	HORIZONTAL	PASSED
5197.199	-61.96	0.00064	-73.02	11.06	HORIZONTAL	PASSED
6935.271	-57.91	0.00162	-72.2	14.29	VERTICAL	PASSED
8662.6	-55.96	0.00254	-76.13	20.17	HORIZONTAL	PASSED
10394.419	-52.61	0.00548	-76.55	23.94	VERTICAL	PASSED

2.12. LTE 850 (Band V) test results

Channel 20525 / 836.5 MHz

FDD, CBW 5MHz, QPSK, 1 RB, RMS detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
858.3	-55.61	0.00275	-90.53	34.92	VERTICAL	PASSED
881.756	-47.8	0.01658	-83.48	35.68	HORIZONTAL	PASSED
882.951	-43.27	0.04715	-79.05	35.78	VERTICAL	PASSED
965.007	-50.78	0.00835	-90.52	39.74	HORIZONTAL	PASSED
1673.381	-59.42	0.00114	-64.5	5.08	HORIZONTAL	PASSED
2501.103	-72.06	6E-05	-83.48	11.42	HORIZONTAL	PASSED
3343.575	-77.9	2E-05	-82.56	4.66	HORIZONTAL	PASSED

Channel 20525 / 836.5 MHz

FDD, CBW 5MHz, 16QAM, 1 RB, RMS detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
857.498	-55.64	0.00273	-90.53	34.89	VERTICAL	PASSED
883.045	-54.8	0.00331	-90.52	35.72	HORIZONTAL	PASSED
883.328	-51.2	0.00758	-87	35.8	VERTICAL	PASSED
960.023	-50.14	0.00969	-90.53	40.39	HORIZONTAL	PASSED
1673.301	-61.97	0.00064	-68.08	6.11	VERTICAL	PASSED
2509.32	-71.35	7E-05	-82.57	11.22	VERTICAL	PASSED
3353.355	-78.1	2E-05	-82.57	4.47	HORIZONTAL	PASSED

2.13. LTE700 Lower (Band 17) test results

Channel 23790 / 710 MHz

FDD, CBW 5MHz, QPSK, 1 RB, RMS detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
1420.421	-70.86	8E-05	-74.96	4.1	HORIZONTAL	PASSED
2130.06	-72.55	6E-05	-81.74	9.19	HORIZONTAL	PASSED
2842.986	-68.82	0.00013	-82.57	13.75	HORIZONTAL	PASSED

Channel 23790 / 710 MHz

FDD, CBW 5MHz, 16QAM, 1 RB, RMS detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarization	Results
1420.461	-73.13	5E-05	-76.99	3.86	VERTICAL	PASSED
2130.501	-72.57	6E-05	-81.74	9.17	HORIZONTAL	PASSED
2846.112	-68.76	0.00013	-82.56	13.8	HORIZONTAL	PASSED

3. Test Equipment

3.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
1759	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
1916	Communication Tester	CMTA84	R&S	15B
1992	Signal Generator	83630B	Agilent	15C, 15B
1999	Receiver	ESIB26	R&S	22/24/27, 15C, 15B
2039	Power Supply	PL330QMD	Thurlby	15C, 15B
2059	V-network	ESH3-Z6	R&S	-
2097	Pulse Limiter	ESH3-Z2	R&S	15C, 15B
2156	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2180	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2206	Signal Generator	SMX	R&S	15C, 15B
2347	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2352	Spectrum Analyzer	FSP-30	R&S	22/24/27, 15C
2359	Temperature Test Chamber	VT4002	Vötsch	22/24/27
2388	Bluetooth Tester	CBT	R&S	15B
2389	Signal Generator	SMJ 100A	R&S	15B
2390	Directional Coupler	DC2600	AR	-
6009	GPS Antenna	SA-700	Chronos	15C
6010	GPS Network amplifier	NLA20FPDC	GPS Networking, Inc	15C
6011	GPS signal Splitter	LDCBS1x4	GPS Networking, Inc	15C
6012	CDN	CDN USB/c	Teseq	-
6015	Receiver	ESI	R&S	22/24, 15C, 15B
6036	Data Logger	175-H2	Testo	22/24/27, 15C, 15B
6038	Data Logger	Testo 580	Testo	22/24/27, 15C, 15B
6039	USB Interface	5541765	Testo	22/24/27, 15C, 15B
6044	V-network	ESH3-Z6	R&S	-
6045	Power splitter	11667B	Agilent	22/24/27, 15C
6046	Attenuator 10dB	8493C	Agilent	22/24/27, 15C
6047	Attenuator 20dB	8493C	Agilent	22/24/27, 15C
6094	Communication Tester	CMW500	R&S	22/24/27, 15C, 15B
6096	EMC Analyzer	E7405A	HP	-
6098	Signal Generator	8648C	Agilent	-
6103	Bluetooth tester	CBT	R&S	15B
6113	Signal Generator	SMF100A	R&S	22/24/27, 15C 15B
6120	Thermal Chamber	WT 20/40	Weiss	22/24/27, 15C 15B
6121	Power Splitter	HP11667B	Agilent	22/24/27, 15C 15B
6122	Power Splitter	HP11667B	Agilent	22/24/27, 15C 15B
6134	Attenuator 10dB	BW-S10-2W263+	Mini-Circuits	22/24/27, 15C
6136	Attenuator 20dB	BW-S20-2W263+	Mini-Circuits	22/24/27, 15C
10479	Communication Tester	CMW500	R&S	22/24/27, 15C, 15B
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B

3.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
1917	Communication Tester	CMTA84	R&S	15B
1984	Antenna	BBHA 9120 D	Schwarzbeck	22/24/27, 15C, 15B
2009	Signal Generator	SMP 22	R&S	22/24/27, 15C, 15B
2027	CDN	M2 (modified) DC1	MEB	22/24/27, 15C, 15B
2028	CDN	M3 (modified) DC2	MEB	22/24/27, 15C, 15B
2029	Power Supply	PL330	Thurlby	22/24/27, 15C
2043	Band Reject Filter	WRCA824/849-0,2-6SS	Wainwright	22
2135	CDN	CDN 801-M3	Lüthi	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
2140	Antenna	EMCO93110B	EMCO	22/24/27, 15C
2142	Antenna	3146	EMCO	22/24/27, 15C
2156	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2176	CDN	CDN 801-M3	Lüthi	22/24/27, 15C, 15B
2180	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2347	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2353	Receiver	ESIB26	R&S	22/24/27, 15C, 15B
2357	Band Reject Filter	WRCG2400/2483-2390/2493-35/10SS	Wainwright	15C
2361	Anechoic Chamber	3 m Semi / Full Anechoic Chamber	Euroshield	22/24/27, 15C, 15B
2364	Band Reject Filter	WRCG1877/1883 - 1870/1890-40/6SS	Wainwright	24
2384	Band Reject Filter	WRCG832/838-825/845-40/5SS	Wainwright	22
2388	Bluetooth Tester	CBT	R&S	15B
2389	Signal Generator	SMJ 100A	R&S	15B
2391	Band Reject Filter	WRCG1729.4/1735.4-1722.4/1742.4-40/6SS	Wainwright	27
6009	GPS Antenna	SA-700	Chronos	15C
6010	GPS Network amplifier	NLA20FPDC	GPS Networking, Inc	15C
6011	GPS signal Splitter	LDCBS1x4	GPS Networking, Inc	15C
6014	Substitute Calibration Cable	Sucoflex 104PB	Suhner	-
6017	Antenna	SBA 9113	Schwarzbeck	22 / 24 / 27
6037	Data Logger	175-H2	Testo	22/24/27, 15C, 15B
6038	Data Logger	Testo 580	Testo	22/24/27, 15C, 15B
6039	USB Interface	5541765	Testo	22/24/27, 15C, 15B
6087	Antenna	BBHA 9120D	Scharzbeck	22/24/27, 15C
6088	Antenna	VUBA 9117	Scharzbeck	22/24/27, 15C
6089	Antenna	HFH2-Z2	R&S	15C, 15B
6094	Communication Tester	CMW500	R&S	22/24/27, 15C, 15B
6103	Bluetooth tester	CBT	R&S	15B
6113	Signal Generator	SMF100A	R&S	22/24/27, 15C 15B
6115	Open switch and control unit	OSP 130	R&S	22/24/27, 15C 15B
6116	Open switch and control unit	OSP 150	R&S	22/24/27, 15C 15B
6130	Notch Filter	WRCD1880-1.1.25/50-10SS	Wainwright	22/24/27
6131	Notch Filter	WRCT902.4-0.4/40-8SS	Wainwright	-
6135	Notch Filter	WRCJV2531/2539-2523/2547-60/12SS	Wainwright	22/24/27
10479	Communication Tester	CMW500	R&S	22/24/27, 15C, 15B
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	RF immunity / Emission Software	EMC32	R&S	22/24/27, 15C, 15B

