

FCC Part 15B Compliance Test Report

Test Report no.:	FCC15B_RX-113_14.docx	Date of Report:	28-Oct-2013
Number of pages:	14	Customer's Contact person:	Jamie Lee
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FCC listing no.:	94436		
IC recognition no.:	661AK-1		
Tested devices/ accessories:	Device RX-113 / AC charger AC-300 / Headset WH-208		
FCC ID:	QMNB	IC:	
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, 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:			

Kalle Hannila, System Manager, EMC

1. Summary for FCC Part 15B Compliance Test Report

Date of receipt	20-Aug-2013
Testing completed	30-Aug-2013
The customer's contact person	Jamie Lee
Test Plan referred to	T:\Projects\RX-114\TestPlan\RS_testplan_RX-114.xlsm
Notes	-
Document name	T:\Projects\RX-113\EMC\FCC15B_RX-113_14.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
Device	RX-114	004402473513822	0108	-	9471_1032_1332_v1.2.2	43079
AC charger	AC-300	1332000058	2.0	-	-	43068
Headset	WH-208	-	-	-	-	43035

1.2. Summary of Test Results

GSM850:

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

WCDMA 850 (Band V):

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	NP

GSM1900:

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	NP

WCDMA 1900 (Band II):

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	NP

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	NP

LTE 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

LTE 700 UPPER (Band XIII):

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

LTE 700 LOWER (Band XVII):

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

The test results of RX-114 are re-used for certification of the RX-113. Table above indicates the results, which will be re-used.

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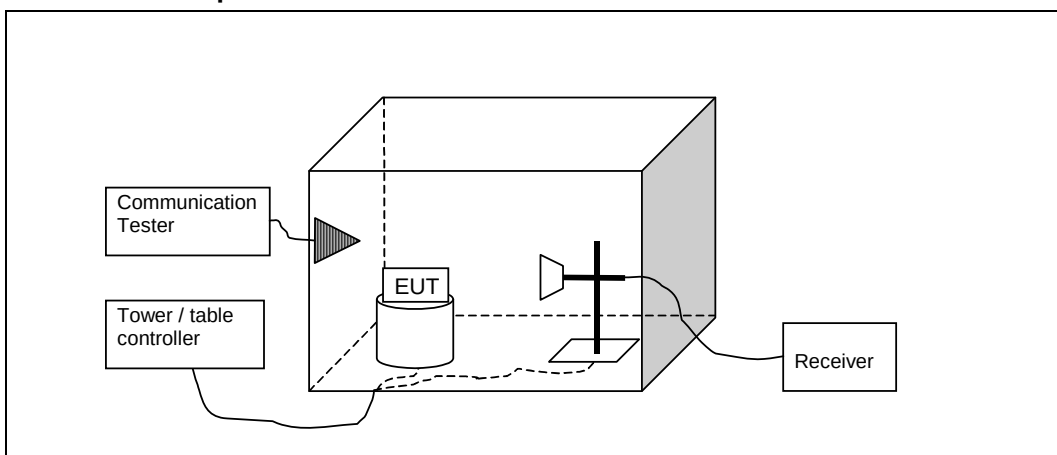
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2. Radiated emissions

(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-114, DUT 43079
Accessories with DUT numbers	AC-300, DUT 43068; WH-208, DUT 43035
Operation Voltage [V] / [Hz]	115 / 60
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21-23 / 56-59 / 98.9-99.6
Date of measurements	28.. 30-Aug-2013
Measured by	Timo Raiskio

2.1.1 Test setup



2.2. 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:

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

Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable loss, antenna factor and preamplifier gain ($A_{TOT} = L_{CABLES} + A_F - G_{PREAMP}$).

CISPR 22 and FCC Part 15 Class B limits (3 m measurement distance)

Frequency range [MHz]	Quasi peak limit [dB μ V/m]	Average limit [dB μ V/m]	Peak limit [dB μ V/m]
30 - 230	40	-	-
230 – 1000	47	-	-
1000 - 3000	-	50	70
Above 3000	-	54	74

2.3. GSM850 test results

RX mode, channel 128 / 869.2 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
3475.5	39.17	90.855	43.82	-4.65	34.8	74	PASSED
6953.9	47.98	250.582	47.4	0.58	26	74	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
3475.5	26.34	20.752	30.99	-4.65	27.7	54	PASSED
6953.9	34.83	55.151	34.25	0.58	19.2	54	PASSED

RX mode, channel 190 / 881.6 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
33.397	28.7	27.227	55.96	-27.26	11.3	40	PASSED
47.925	29.11	28.546	63.06	-33.95	10.9	40	PASSED
52.284	29.81	30.924	66.44	-36.63	10.2	40	PASSED
55.863	30.41	33.163	68.9	-38.49	9.6	40	PASSED
60.701	25.78	19.445	65.07	-39.29	14.2	40	PASSED
65	20.73	10.873	59.78	-39.05	19.3	40	PASSED
69.509	21.15	11.413	59.14	-37.99	18.9	40	PASSED
86.252	30.11	32.033	65.64	-35.53	9.9	40	PASSED
99.477	19.34	9.273	54.28	-34.94	20.7	40	PASSED
270	24.7	17.175	59.3	-34.6	22.3	47	PASSED

RX mode, channel 190 / 881.6 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
7821.446	45.4	186.166	42.62	2.78	28.6	74	PASSED
7842.688	45.91	197.356	43.14	2.77	28.1	74	PASSED
7852.004	46.46	210.329	43.69	2.78	27.5	74	PASSED
7866.03	45.63	191.117	42.75	2.88	28.4	74	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
7821.446	32.75	43.381	29.97	2.78	21.3	54	PASSED
7842.688	32.74	43.331	29.97	2.77	21.3	54	PASSED
7852.004	33	44.674	30.23	2.78	21	54	PASSED
7866.03	33.08	45.102	30.2	2.88	20.9	54	PASSED

RX mode, channel 251 / 893.8 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
3576.8	39.28	92.045	43.96	-4.68	34.7	74	PASSED
7152.4	44.5	167.822	43	1.5	29.5	74	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
3576.8	26.46	21.033	31.14	-4.68	27.5	54	PASSED
7152.4	31.36	36.991	29.86	1.5	22.6	54	PASSED

2.4. LTE 1700 (Band IV) test results

Channel 19975 / 1712.5 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
4226.5	40.61	107.325	43.68	-3.07	33.4	74	PASSED
6337.2	45.99	199.343	46.53	-0.54	28	74	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
4226.5	27.46	23.616	30.53	-3.07	26.5	54	PASSED
6337.2	32.8	43.667	33.34	-0.54	21.2	54	PASSED

Channel 20175 / 1732.5 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
30.45	22.86	13.896	48.81	-25.95	17.1	40	PASSED
34.521	23.03	14.181	50.79	-27.76	17	40	PASSED
37.785	31.17	36.195	60.25	-29.08	8.8	40	PASSED
42.965	29.4	29.515	60.68	-31.28	10.6	40	PASSED
47.462	29.89	31.232	63.56	-33.67	10.1	40	PASSED
52.124	32.6	42.673	69.13	-36.53	7.4	40	PASSED
55.702	32.51	42.209	70.97	-38.46	7.5	40	PASSED
81.755	32.9	44.162	68.98	-36.08	7.1	40	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1734.672	36.8	69.191	52.96	-16.16	33.2	70	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1734.672	23.86	15.588	40.02	-16.16	26.1	50	PASSED

Channel 20175 / 1732.5 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
7818.134	45.62	191.007	42.87	2.75	28.4	74	PASSED
7839.876	45.91	197.447	43.14	2.77	28.1	74	PASSED
7846.695	45.48	187.845	42.75	2.73	28.5	74	PASSED
7858.316	45.89	197.038	43.14	2.76	28.1	74	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
7818.134	32.66	42.949	29.91	2.75	21.3	54	PASSED
7839.876	32.77	43.516	30	2.77	21.2	54	PASSED
7846.695	32.74	43.351	30.01	2.73	21.3	54	PASSED
7858.316	32.88	44.066	30.13	2.76	21.1	54	PASSED

Channel 20375 / 1752.5 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
4306.2	40.19	102.2	43.41	-3.22	33.8	74	PASSED
6456.1	46.39	208.761	47.03	-0.64	27.6	74	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
4306.2	27.22	22.959	30.44	-3.22	26.8	54	PASSED
6456.1	33.62	47.984	34.26	-0.64	20.4	54	PASSED

2.5. LTE700 Upper (Band 13) test results

Channel 23205 / 779.5 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1497.4	40.81	109.736	58.78	-17.97	29.2	70	PASSED
2245.9	40.57	106.721	51.32	-10.75	29.4	70	PASSED
3001.8	39.44	93.778	44.22	-4.78	34.6	74	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1497.4	23.47	14.912	41.44	-17.97	26.5	50	PASSED
2245.9	27.61	24.016	38.36	-10.75	22.4	50	PASSED
3001.8	26.88	22.08	31.66	-4.78	27.1	54	PASSED

Channel 23230 / 782 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
2314.631	40.74	108.83	51.32	-10.58	29.3	70	PASSED
2345.189	40.08	100.902	50.55	-10.47	29.9	70	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
2314.631	27.42	23.488	38	-10.58	22.6	50	PASSED
2345.189	27.41	23.472	37.88	-10.47	22.6	50	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
31.17	19.67	9.623	45.94	-26.27	20.3	40	PASSED
33.836	18.13	8.067	45.58	-27.45	21.9	40	PASSED
47.835	31.68	38.366	65.58	-33.9	8.3	40	PASSED
52.064	34.13	50.898	70.62	-36.49	5.9	40	PASSED
55.851	31.04	35.637	69.53	-38.49	9	40	PASSED
55.872	31.1	35.88	69.6	-38.5	8.9	40	PASSED
82.344	33.19	45.677	69.19	-36	6.8	40	PASSED

Channel 23255 / 784.5 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1508.7	39.79	97.611	57.58	-17.79	30.2	70	PASSED
2260.4	40.64	107.609	51.31	-10.67	29.4	70	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1508.7	23.16	14.395	40.95	-17.79	26.8	50	PASSED
2260.4	27.72	24.328	38.39	-10.67	22.3	50	PASSED

2.6. LTE700 Lower (Band 17) test results

Channel 23755 / 706.5 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1472.6	42.26	129.673	60.21	-17.95	27.7	70	PASSED
2207.5	40.39	104.532	52.03	-11.64	29.6	70	PASSED
3000.1	40.96	111.686	45.78	-4.82	33	74	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1472.6	23.76	15.408	41.71	-17.95	26.2	50	PASSED
2207.5	26.84	21.968	38.48	-11.64	23.2	50	PASSED
3000.1	26.72	21.685	31.54	-4.82	27.3	54	PASSED

Channel 23790 / 710 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
30.54	23.92	15.704	49.91	-25.99	16.1	40	PASSED
35.08	23.74	15.385	51.74	-28	16.3	40	PASSED
53.274	26.12	20.226	63.37	-37.25	13.9	40	PASSED
82.332	25.72	19.326	61.72	-36	14.3	40	PASSED
737.886	34.41	52.553	59.33	-24.92	12.6	47	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1417.735	34.86	55.354	53.47	-18.61	35.1	70	PASSED
2125.649	39.68	96.372	52.3	-12.62	30.3	70	PASSED
2806.412	43.4	147.979	50.54	-7.14	26.6	70	PASSED
2826.657	43.09	142.791	50	-6.91	26.9	70	PASSED
2848.096	44.7	171.712	50.95	-6.25	25.3	70	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1417.735	22.35	13.11	40.96	-18.61	27.6	50	PASSED
2125.649	26.19	20.394	38.81	-12.62	23.8	50	PASSED
2806.412	30.15	32.166	37.29	-7.14	19.9	50	PASSED
2826.657	30.52	33.554	37.43	-6.91	19.5	50	PASSED
2848.096	30.93	35.205	37.18	-6.25	19.1	50	PASSED

Channel 23825 / 713.5 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1487.4	41.08	113.279	59.05	-17.97	28.9	70	PASSED
2229.7	40.39	104.568	51.55	-11.16	29.6	70	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
1487.4	23.5	14.954	41.47	-17.97	26.5	50	PASSED
2229.7	27.21	22.922	38.37	-11.16	22.8	50	PASSED

3. Test Equipment

3.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM38112	Power supply	6632A	Agilent	22/24/27, 15C, 15E
TM38631	Signal Generator	83640L	Agilent	22/24/27, 15C, 15E, 15B
TM37678	Communication Tester	CMU200	R&S	15C, 15B
TM30600	Impulse limiter	ESH3-Z2	R&S	15C, 15B
TM26490	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
TM26491	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
TM37610	Spectrum Analyzer	FSU26	R&S	22/24/27, 15C, 15E
TM23007	Oscilloscope	TDS684B	Tektronix	15E
TM22806	Battery	BAT 20/E	Fiskars	15C, 15B
TM22805	UPS	PS 20/1.2	Fiskars	15C, 15B
-	Temperature and humidity logger	175-H2	Testo	15C, 15B
-	Temperature and humidity logger	175-H2	Testo	22/24/27, 15C
-	Air pressure and temperature logger	635-2	Testo	22/24/27, 15C, 15B
-	Air pressure sensor	0638-1835	Testo	22/24/27, 15C, 15B
-	Temperature test chamber	VT 4002	Vötsch	22/24/27
2058	Receiver	ESPC	R&S	15C, 15B
2001	Bluetooth tester	CBT	R&S	15C, 15B
2002	Communication Tester	CMU200	R&S	22/24/27, 15C
2009	LISN 50 µH	ENV216	R&S	15C, 15B
2010	LISN 50 µH	ENV216	R&S	15C, 15B
2012	Power splitter	11667B	Agilent	22/24/27, 15C
2013	Attenuator	8493C	Agilent	22/24/27, 15C
2014	Attenuator	8493C	Agilent	22/24/27, 15C
2019	Power splitter	ZN2PD-9G-S+	Mini-Circuits	15E
2020	Power splitter	ZN2PD-9G-S+	Mini-Circuits	15E
2021	Communication Tester	CMW500	R&S	22/24/27
2023	Spectrum Analyzer	ESMI-RF	R&S	15B/15C
2024	Analyzer display unit	ESAI-D	R&S	15B/15C

3.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM38114	Power supply	6632A	Agilent	22/24/27, 15C, 15B
TM38631	Signal Generator	83640L	Agilent	22/24/27, 15C, 15E, 15B
-	Antenna	BBHA 9120 D	Schwarzbeck	22/24/27, 15C
TM26497	Antenna	3115	Emco	22/24/27, 15C, 15B
TM37773	Communication Tester	CMU200	R&S	22/24/27, 15B
TM38845	Receiver	ESIB 26	R&S	22/24/27, 15C, 15E, 15B
-	Antenna	HL562	R&S	22/24/27, 15C, 15E, 15B
-	Turntable	2188	EMCO	22/24/27, 15C, 15E, 15B
-	Turntable controller	2090	EMCO	22/24/27, 15C, 15E, 15B
-	RF system panel	TS-RSP	R&S	22/24/27, 15C, 15E, 15B
-	RF system panel	TS-RSP	R&S	22/24/27, 15C, 15E, 15B
-	Mini mast	2075-2	ETS Lindgren	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
TM38843	Mini mast	2075	Emco	22/24/27, 15C, 15B
TM38842	Antenna mast controller	2090	Emco	22/24/27, 15C, 15B
TM30643	LISN 50 µH	LISN-5-20-2	FCC	22/24/27, 15C, 15B
TM30644	LISN 50 µH	LISN-5-20-2	FCC	22/24/27, 15C, 15B
-	Temperature and humidity logger	175-H2	Testo	22/24/27, 15C, 15B
-	Air pressure and temperature logger	635-2	Testo	22/24/27, 15C, 15B
-	Air pressure sensor	0638-1835	Testo	22/24/27, 15C, 15B
TM37523	Preamplifier	AMF-4D-10M-3G-25-20P	Miteq	22/24/27, 15C, 15B
TM37498	Preamplifier	AMF-5D-020180-26-10P	Miteq	22/24/27, 15C, 15B
TM30599	Semi anechoic chambre	UNKNOWN	TDK	22/24/27, 15C, 15B
TM22638	Power supply	OL63743-901	-	22/24/27, 15C, 15E, 15B
TM38066	High pass filter	WHKX3.0/18G-12SS	Wainwright	22/24/27, 15C, 15E, 15B
2028	High pass filter	WHKX 1.0/15G-12SS	Wainwright	22/24/27, 15C, 15E, 15B
TM37545	Tunable notch filter	800.0/960.0-0.2/40-8SSK	Wainwright	22
TM26512	Tunable notch filter	WRCD1850/1910-0.2/40-10SSK	Wainwright	24
-	Band reject filter	WRCG1877/1883-1870/1890-40/6EE	Wainwright	24
-	Band reject filter	WRCG1729.4/1735.4-1722.4/1742.4-40/6SS	Wainwright	27
-	Band reject filter	WRCG832/838-825/848-40/5SS	Wainwright	22
TM23892	Controller	G-1000SDX	Yaesu	22/24/27
2001	Bluetooth tester	CBT	R&S	15C, 15B
6023	Antenna	VUBA 9117	Schwarzbeck	22/24/27
2021	Communication Tester	CMW500	R&S	22/24/27
2025	Antenna	HFH2-Z2	R&S	15C