

FCC Part 22/24/27 Compliance Test Report

Test Report no.:	FCC22&24&27_RM-983_06.docx	Date of Report:	21-Aug-2014
Number of pages:	14	Customer's Contact person:	Victoria Abadilla
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FCC listing no.:	533467		
IC recognition no.:	661V-1		
Tested devices/ accessories:	Phone RM-983 / Back cover T1-2 / Battery BV-L4A / Switching Power Supply KSAP0151800083HU / Duracell Power Mat - / Headset WH-208		
FCC ID:	QMNRM-983	IC:	661X-RM983
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-130 (Issue 1, October 2013), RSS-132 (Issue 2, September 2005), RSS-133 (Issue 5, 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 Microsoft.		
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 22/24/27 Compliance Test Report

Date of receipt	09-Jul-2014
Testing completed	21-Aug-2014
The customer's contact person	Victoria Abadilla
Test Plan referred to	T:\Projects\RM-983\TestPlan\RS_TestPlan_RM-983.xlsm
Notes	-
Document name	T:\Projects\RM-983\EMC\FCC22&24&27_RM-983_06.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-983	3542500600002246059V766	0200	-	02028.00000.14224.06004	18569
Back cover	T1-2	-	-	-	-	18624
Battery	BV-L4A	4181574243S1140002960670727	-	-	-	18447
Switching Power Supply	KSAP0151800083HU	0812806	-	-	-	18626
Duracell Power Mat	-	337123352ZBA	-	-	-	18627
Headset	WH-208	3342R31	-	-	-	18468

1.2. Summary of Test Results

LTE700 Lower (Band 17):

Section in CFR 47	Section in RSS-GEN or RSS-130	Name of the test	Result
§2.1046(a)	4.4	Conducted RF output power	NP
§27.50(c)(10)	4.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§27.53(g)	4.6	Band edge compliance	NP
§27.53(g), §2.1051	4.6	Spurious emissions at antenna terminals	NP
§27.53(g), §2.1051	4.6	Spurious radiated emissions	PASSED
§2.1055(a)	4.3 (a)	Frequency stability, temperature variation	NP
§2.1055(d)	4.3 (a)	Frequency stability, voltage variation	NP

LTE7:

Section in CFR 47	Section in RSS-GEN or RSS-199	Name of the test	Result
§2.1046(a)	4.4	Conducted RF output power	NP
§27.50(h)(2)	4.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§27.53(l)	4.5(b)	Band edge compliance	NP
§2.1051	4.5(b)	Spurious emissions at antenna terminals	NP
§27.53(l), §2.1053	4.5(b)	Spurious radiated emissions	PASSED
§27.54	4.3	Frequency stability, temperature variation	NP
§27.54	4.3	Frequency stability, voltage variation	NP

LTE1900 (Band 2):

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	NP
§24.232(b)	6.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§24.238(a)	6.5	Band edge compliance	NP
§24.238(a), §2.1051	6.5	Spurious emissions at antenna terminals	NP
§24.238(a), §2.1053	6.5	Spurious radiated emissions	PASSED
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

GSM 850:

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	NP
§22.913(a)	4.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§22.917(a)	4.5	Band edge compliance	NP
§22.917(a), §2.1051	4.5	Spurious emissions at antenna terminals	NP
§22.917(a), §2.1053	4.5	Spurious radiated emissions	PASSED
§2.1055(a)	4.3	Frequency stability, temperature variation	NP
§2.1055(d)	4.3	Frequency stability, voltage variation	NP

GSM 1900:

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	NP
§24.232(b)	6.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§24.238(a)	6.5	Band edge compliance	NP
§24.238(a), §2.1051	6.5	Spurious emissions at antenna terminals	NP
§24.238(a), §2.1053	6.5	Spurious radiated emissions	PASSED
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

WCDMA 850:

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	NP
§22.913(a)	4.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§22.917(a)	4.5	Band edge compliance	NP
§22.917(a), §2.1051	4.5	Spurious emissions at antenna terminals	NP
§22.917(a), §2.1053	4.5	Spurious radiated emissions	PASSED
§2.1055(a)	4.3	Frequency stability, temperature variation	NP
§2.1055(d)	4.3	Frequency stability, voltage variation	NP

WCDMA 1900:

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	NP

§24.232(b)	6.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§24.238(a)	6.5	Band edge compliance	NP
§24.238(a), §2.1051	6.5	Spurious emissions at antenna terminals	NP
§24.238(a), §2.1053	6.5	Spurious radiated emissions	PASSED
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

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	NP
§27.50(d)(4)	6.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§27.53(h)	6.5	Band edge compliance	NP
§27.53(h), §2.1051	6.5	Spurious emissions at antenna terminals	NP
§27.53(h), §2.1053	6.5	Spurious radiated emissions	PASSED
§2.1055(a)	6.3	Frequency stability, temperature variation	NP
§2.1055(d)	6.3	Frequency stability, voltage variation	NP

LTE850 (Band 5):

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	NP
§22.913(a)	4.4	Radiated RF output power	NP
§2.1049(h)	4.6.1	99 % occupied bandwidth	NP
§22.917(a)	4.5	Band edge compliance	NP
§22.917(a), §2.1051	4.5	Spurious emissions at antenna terminals	NP
§22.917(a), §2.1053	4.5	Spurious radiated emissions	PASSED
§2.1055(a)	4.3	Frequency stability, temperature variation	NP
§2.1055(d)	4.3	Frequency stability, voltage variation	NP

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 Microsoft Laboratory.

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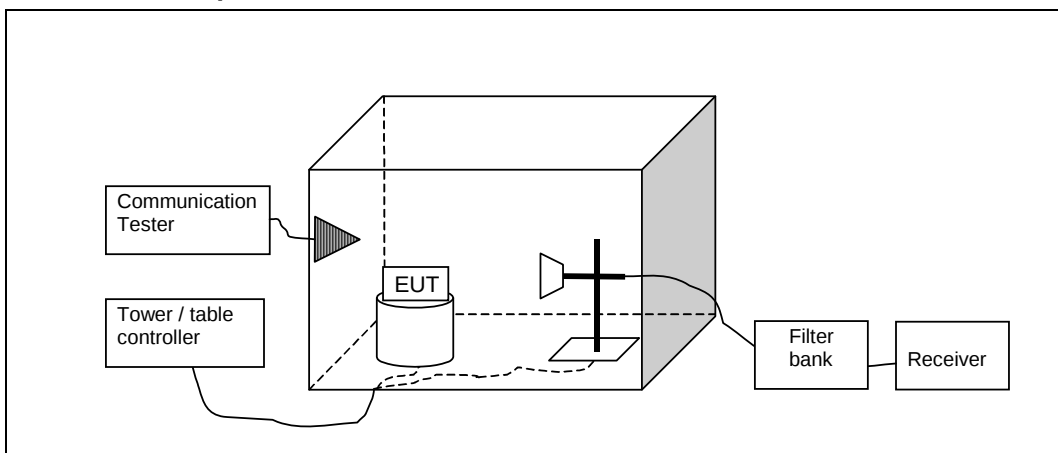
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2. Spurious radiated emissions

(FCC §27.53(g), §24.238(a), §2.1053, §27.53(l), §2.1053, §2.1051, RSS-130 4.6, RSS-199 4.5(b), RSS-133 6.5)

EUT with DUT number	RM-983, DUT 18569
Accessories with DUT numbers	T1-2, DUT 18624 ; BV-L4A, DUT 18447 ; KSAP0151800083HU, DUT 18626 ; -, DUT 18627 ; WH-208, DUT 18468
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	19 / 55 / 101.4
Date of measurements	21-Aug-2014
Measured by	Sami Lehtonen / Ville-Matti Mannermaa

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]
LTE700 Lower (Band 17)	30 - 7200	-13 (RBW = 100 kHz, ERP)
LTE7	30 - 25700	-13
LTE1900 (Band 2)	30 - 19100	-13

2.3. GSM 850 test results

Peak detector

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
1673.106	-43.71	0.04256	-50.11	6.4	VERTICAL	PASSED
1673.267	-44.04	0.03945	-50.44	6.4	VERTICAL	PASSED
2509.78	-43.39	0.04581	-55.39	12	HORIZONTAL	PASSED
2527.094	-52.62	0.00547	-64.82	12.2	HORIZONTAL	PASSED
3318.557	-59.7	0.00107	-63.4	3.7	HORIZONTAL	PASSED

2.4. GSM 850 E-GPRS (MSC9) test results

Peak detector

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
1673.18	-47.94	0.01607	-54.34	6.4	VERTICAL	PASSED
2509.82	-43.25	0.04732	-55.25	12	HORIZONTAL	PASSED

2.5. GSM 1900 test results

Peak detector

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
9536.513	-43.8	0.04169	-66.2	22.4	VERTICAL	PASSED
9546.814	-43.53	0.04436	-65.83	22.3	VERTICAL	PASSED
9714.589	-43.86	0.04111	-66.06	22.2	VERTICAL	PASSED
9724.409	-44.23	0.03776	-66.03	21.8	HORIZONTAL	PASSED
9938.116	-43.36	0.04613	-65.56	22.2	VERTICAL	PASSED
10015.731	-43.71	0.04256	-65.41	21.7	HORIZONTAL	PASSED

2.6. GSM 1900 E-GPRS (MSC9) test results

Peak detector

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
3756.493	-56.58	0.0022	-63.18	6.6	HORIZONTAL	PASSED
5631.483	-51.44	0.00718	-61.64	10.2	HORIZONTAL	PASSED

2.7. WCDMA 1900 test results

Channel 9400 / 1880.0 MHz

FDD mode, Peak detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
3758.497	-53.34	0.00463	-59.94	6.6	HORIZONTAL	PASSED
5632.766	-51.07	0.00782	-61.27	10.2	HORIZONTAL	PASSED
7514.77	-47.8	0.0166	-63.7	15.9	HORIZONTAL	PASSED
9294.329	-43.44	0.04529	-65.74	22.3	VERTICAL	PASSED
9334.93	-43.33	0.04645	-65.83	22.5	VERTICAL	PASSED
9391.283	-43.19	0.04797	-64.59	21.4	HORIZONTAL	PASSED
9538.577	-43.05	0.04955	-65.55	22.5	VERTICAL	PASSED
9731.844	-43.03	0.04977	-64.73	21.7	HORIZONTAL	PASSED
9901.663	-42.34	0.05834	-65.24	22.9	VERTICAL	PASSED
9957.335	-43.39	0.04581	-65.09	21.7	HORIZONTAL	PASSED
11275.852	-40.74	0.08433	-64.14	23.4	HORIZONTAL	PASSED
13158.657	-51.62	0.00689	-68.42	16.8	HORIZONTAL	PASSED
15035.05	-49.73	0.01064	-71.63	21.9	VERTICAL	PASSED
16918.417	-47.28	0.01871	-72.68	25.4	VERTICAL	PASSED

2.8. WCDMA 850 test results

Channel 4175 / 835.0 MHz

FDD mode, Peak detector

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
848.701	-45.22	0.03006	-80.02	34.8	VERTICAL	PASSED
848.783	-45.75	0.02661	-80.55	34.8	VERTICAL	PASSED
956.789	-39.74	0.10617	-79.74	40	HORIZONTAL	PASSED
962.285	-40.18	0.09594	-80.18	40	HORIZONTAL	PASSED
965.606	-40.52	0.08872	-80.12	39.6	HORIZONTAL	PASSED
983.908	-41.85	0.06531	-80.25	38.4	VERTICAL	PASSED
1672.545	-51.73	0.00671	-58.13	6.4	VERTICAL	PASSED
2501.092	-51.73	0.00671	-63.53	11.8	HORIZONTAL	PASSED
3332.204	-58.84	0.00131	-62.34	3.5	HORIZONTAL	PASSED
4172.856	-57.48	0.00179	-62.78	5.3	VERTICAL	PASSED
5004.89	-53.32	0.00466	-61.92	8.6	VERTICAL	PASSED
5848.788	-52.57	0.00553	-61.27	8.7	HORIZONTAL	PASSED
6682.826	-49.03	0.0125	-59.53	10.5	HORIZONTAL	PASSED
7507.565	-48.86	0.013	-63.26	14.4	VERTICAL	PASSED
8354.228	-47.86	0.01637	-63.96	16.1	VERTICAL	PASSED

2.9. LTE1900 (Band 2) 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]	Polarisation	Results
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1845.349	-65.41	0.00029	-73.91	8.5	HORIZONTAL	PASSED
1849.554	-65.12	0.00031	-73.62	8.5	HORIZONTAL	PASSED
1921.168	-64.23	0.00038	-73.93	9.7	HORIZONTAL	PASSED
3760.301	-66.22	0.00024	-72.72	6.5	HORIZONTAL	PASSED
5643.026	-62.22	0.0006	-72.42	10.2	HORIZONTAL	PASSED
7511.924	-58.95	0.00127	-74.95	16	HORIZONTAL	PASSED

Channel 18900 / 1880.0 MHz

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

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
1850.399	-57.41	0.00182	-65.91	8.5	HORIZONTAL	PASSED
1909.502	-61.52	0.0007	-71.02	9.5	HORIZONTAL	PASSED
3760.381	-66.22	0.00024	-72.72	6.5	HORIZONTAL	PASSED
5647.435	-62.02	0.00063	-72.42	10.4	HORIZONTAL	PASSED
7520.341	-58.87	0.0013	-74.97	16.1	HORIZONTAL	PASSED

2.10. LTE1700 (Band 4) test results

Channel 20175 / 1732.5 MHz

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

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
3465.541	-63.01	0.0005	-68.91	5.9	HORIZONTAL	PASSED
5198.001	-60.34	0.00092	-70.54	10.2	HORIZONTAL	PASSED
6929.579	-58.07	0.00156	-71.97	13.9	VERTICAL	PASSED
8672.46	-56.57	0.0022	-75.67	19.1	HORIZONTAL	PASSED
10395.942	-53.39	0.00458	-75.69	22.3	VERTICAL	PASSED

Channel 20175 / 1732.5 MHz

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

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
3465.541	-63.38	0.00046	-69.28	5.9	HORIZONTAL	PASSED
5197.961	-60.34	0.00092	-70.54	10.2	HORIZONTAL	PASSED
6929.579	-58.07	0.00156	-71.97	13.9	VERTICAL	PASSED
8671.658	-56.59	0.00219	-75.69	19.1	HORIZONTAL	PASSED
10395.982	-53.39	0.00458	-75.69	22.3	VERTICAL	PASSED

2.11. LTE850 (Band 5) test results

Channel 20525 / 836.5 MHz

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

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
851.567	-56.27	0.00236	-90.57	34.3	HORIZONTAL	PASSED
880.152	-51.32	0.00738	-87.02	35.7	HORIZONTAL	PASSED
962.889	-50.6	0.00871	-90.5	39.9	HORIZONTAL	PASSED
1673.421	-63.55	0.00044	-68.95	5.4	HORIZONTAL	PASSED
2510.282	-67.11	0.00019	-79.01	11.9	HORIZONTAL	PASSED
3342.653	-78.08	2E-05	-81.78	3.7	HORIZONTAL	PASSED

Channel 20525 / 836.5 MHz

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

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
856.557	-56.25	0.00237	-90.55	34.3	HORIZONTAL	PASSED
881.842	-51.39	0.00726	-86.99	35.6	HORIZONTAL	PASSED
960.448	-50.28	0.00938	-90.48	40.2	HORIZONTAL	PASSED
1673.14	-71.17	8E-05	-76.57	5.4	HORIZONTAL	PASSED
2509.72	-69.78	0.00011	-81.78	12	HORIZONTAL	PASSED
3353.635	-78.29	1E-05	-81.69	3.4	HORIZONTAL	PASSED

2.12. LTE7 test results

Channel 21100 / 2535.0 MHz

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

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
5070.381	-53.8	0.00417	-64	10.2	HORIZONTAL	PASSED
7598.687	-58.41	0.00144	-74.31	15.9	HORIZONTAL	PASSED
10132.164	-54.24	0.00377	-76.14	21.9	HORIZONTAL	PASSED

Channel 21100 / 2535.0 MHz

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

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Polarisation	Results
5076.673	-62.95	0.00051	-73.35	10.4	HORIZONTAL	PASSED
7614.319	-58.34	0.00147	-74.24	15.9	HORIZONTAL	PASSED
10133.006	-54.26	0.00375	-76.16	21.9	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]	Polarisation	Results
1419.98	-69.15	0.00012	-73.65	4.5	HORIZONTAL	PASSED
2129.98	-71.84	7E-05	-80.94	9.1	VERTICAL	PASSED
2840.1	-68.63	0.00014	-82.53	13.9	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]	Polarisation	Results
1420.381	-59.8	0.00105	-64.3	4.5	HORIZONTAL	PASSED
2130.541	-63.18	0.00048	-72.78	9.6	HORIZONTAL	PASSED
2840.701	-67.78	0.00017	-81.78	14	HORIZONTAL	PASSED

3. Test Equipment

3.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
6039	USB Interface	5541765	Testo	22/24/27, 15C, 15B
6044	V-network	ESH3-Z6	R&S	-
2059	V-network	ESH3-Z6	R&S	-
1759	LISN 50 µH	ESH3-Z5	R&S	22/24/27, 15C, 15B
2097	Pulse Limiter	ESH3-Z2	R&S	22/24/27, 15C, 15B
1999	Receiver	ESIB26	R&S	22/24/27, 15C, 15B
2180	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2390	Directional Coupler	DC2600	AR	-
-	RF immunity / Emission Software	EMC32	R&S	22/24/27, 15C, 15B
2060	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
1759	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
2039	Power Supply	PL330QMD	Thurlby	15C, 15B
6036	Data Logger	175-H2	Testo	22/24/27, 15C, 15B
2359	Temperature Test Chamber	VT4002	Vötsch	22/24/27
2352	Spectrum Analyzer	FSP-30	R&S	22/24/27, 15C
6109	Communication Tester	CMU200	R&S	22/24/27, 15C
6246	Power Supply	66332A	HP	22/24/27, 15C
1992	Signal Generator	83630B	Agilent	15C, 15B
6098	Signal Generator	8648C	Agilent	-
6046	Attenuator 10dB	8493C	Agilent	22/24/27, 15C
6047	Attenuator 20dB	8493C	Agilent	22/24/27, 15C
6045	Power splitter	11667B	Agilent	22/24/27, 15C
6247	Communication Tester	CBT	R&S	22/24/27, 15C 15B
6052	Communication Tester	CMU200	R&S	22/24/27, 15C 15B
6248	Power Supply	6632B	-	22/24/27, 15C 15B
6106	Spectrum Analyzer	FSP-30	R&S	22/24/27, 15C 15B
6113	Signal Generator	SMF100A	R&S	22/24/27, 15C 15B
6202	Temperature Test Chamber	VT4002	Vötsch	22/24/27, 15C 15B
6122	Power Splitter	11667B	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
6103	Bluetooth tester	CBT	R&S	22/24/27, 15C 15B
6250	Power Supply	6651A	Agilent	22/24/27, 15C 15B
6108	Communication Tester	CMU200	R&S	22/24/27, 15C 15B
6105	Spectrum Analyzer	FSV-30	R&S	22/24/27, 15C 15B
6251	Temperature Test Chamber	VT4002	Vötsch	22/24/27, 15C 15B
6243	Power Splitter	1167B	Agilent	22/24/27, 15C 15B
6245	Attenuator 10dB	BW-S10-2W263+	Mini-Circuits	22/24/27, 15C 15B
6244	Attenuator 20dB	BW-S20-2W263+	Mini-Circuits	22/24/27, 15C 15B

3.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
2388	Bluetooth Tester	CBT	R&S	15B
10479	Communication Tester	CMW500	R&S	22/24/27, 15C, 15B
2347	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2009	Signal Generator	SMP 22	R&S	22/24/27, 15C, 15B
2348	Controller	G-1000DXC	Yaesu	22/24/27, 15C, 15B
2349	Computer Controller	g-1000DXC	Yaesu	22/24/27, 15C, 15B
2116	Controller	EMCO 2090	ETS	22/24/27, 15C, 15B
2109	Power Supply	PL330QMD	Thurlby	22/24/27, 15C, 15B
2353	Receiver	ESIB26	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

Eq. No	Equipment	Type	Manufacturer	Used in
6117	Open switch and control unit	OSP 150	R&S	22/24/27, 15C, 15B
6131	Notch Filter	WRCT902.4-0.4/40-8SS	Wainwright	22/24/27, 15C, 15B
6130	Notch Filter	WRCD1880-1.1.25/50-10SS	Wainwright	22/24/27
6159	Band Reject Filter	WRCD1747.8-0.4/40-5SS	Wainwright	22/24/27, 15C, 15B
6158	Band Reject Filter	WRCT836.6-0.4/40-8SS	Wainwright	22/24/27, 15C, 15B
6197	Band Reject Filter	WRCJV2531/2539-2523/2547-60/12SS	Wainwright	22/24/27, 15C, 15B
2231	Band Reject Filter	WRCG1947/1953-1940/1960-40/6SS	Wainwright	22/24/27, 15C, 15B
2391	Band Reject Filter	WRCG1729.4/1735.4-1722.4/1742.4-40/6SS	Wainwright	27
2386	Band Reject Filter	WRCG1764.4/1770.4-1760.4/1774.4-40/6SS	Wainwright	22/24/27, 15C, 15B
2385	Band Reject Filter	WRCG1744.4/1750.4-1740.4/1754.4-40/6SS	Wainwright	22/24/27, 15C, 15B
2357	Band Reject Filter	WRCG2400/2483-2390/2493-35/10SS	Wainwright	15C
2188	Preamplifier	AFS4-00100300-20-23P-6	Miteq	22/24/27, 15C, 15B
6195	High Pass Filter	-	Wainwright	22/24/27, 15C, 15B
2364	Band Reject Filter	WRCG1877/1883 - 1870/1890-40/6SS	Wainwright	24
2361	Anechoic Chamber	3 m Semi / Full Anechoic Chamber	Euroshield	22/24/27, 15C, 15B
6212	Antenna Array system	-	TCC	22/24/27, 15C, 15B
-	RF immunity / Emission Software	EMC32	R&S	22/24/27, 15C, 15B
6089	Antenna	HFH2-Z2	R&S	15C, 15B
2027	CDN	M2 (modified) DC1	MEB	22/24/27, 15C, 15B
2028	CDN	M3 (modified) DC2	MEB	22/24/27, 15C, 15B
2176	CDN	CDN 801-M3	Lüthi	22/24/27, 15C, 15B
2135	CDN	CDN 801-M3	Lüthi	22/24/27, 15C, 15B
2029	Power Supply	PL330	Thurlby	22/24/27, 15C
6038	Data Logger	Testo 580	Testo	22/24/27, 15C, 15B
6037	Data Logger	175-H2	Testo	22/24/27, 15C, 15B
6039	USB Interface	5541765	Testo	22/24/27, 15C, 15B