

FCC Part 15C Compliance Test Report

Test Report no.:	Bej_FCC_0737_05.doc	Date of Report:	18.09.2007
Number of pages:	13	Customer's Contact person:	Robert Binder
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FCC listing no.:	884453		
IC recognition no.:	4917		
Tested devices/ accessories:	Phone RM-313 / Battery BP-6MT, AC-charger AC-5 and Headset HS-43		
FCC ID:	QVVRM-313	IC:	661AE-RM313
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 and RSS-210. 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:			

Yin Hongpeng, Engineer

1. Summary for FCC Part 15C Compliance Test Report

Date of receipt	10.09.2007
Testing completed	18.09.2007
The customer's contact person	Robert Binder
Test Plan referred to	T:\Projects\RM-313\TestPlan_RS\RS_test_plan_RM-313.xls
Notes	-
Document name	T:\Projects\RM-313\EMC\Results\FCC\Bej_FCC_0737_05.doc

1.1. EUT and Accessory Information

The EUT is a 5-band (GSM850/900/1800/1900 and WCDMA Band I) mobile phone with GPRS, EGPRS, Bluetooth and WLAN. Bluetooth and WLAN are tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-313	004401/01/318139/7	3001	-	10.0.005	50683
Battery	BP-6MT	3932137214110100030;0670551	-	-	-	50684
AC-charger	AC-5	3943497311090619965;0675540	-	-	-	50685
Headset	HS-43	0694540716602607947	-	-	-	50679

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(c)	A8.5	Band edge compliance of RF emissions	NP
15.247(c)	A8.5	Spurious RF conducted emissions	NP
15.247(c), 15.209	A8.5	Spurious radiated emissions	PASSED
15.207	7.2.2	AC powerline conducted emissions	NP
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

WLAN:

Section in CFR 47	Section in RSS-210	Name of the test	Result
15.247(b)(1)	A8.4 (4)	Conducted peak output power	NP
15.247(c)	A8.5	Band edge compliance of RF emissions	NP
15.247(c)	A8.5	Spurious RF conducted emissions	NP
15.247(c), 15.209	A8.5	Spurious radiated emissions	PASSED
15.207	7.2.2	AC powerline conducted emissions	NP
15.247(a)(2)	A8.2 (1)	6 dB bandwidth	NP
15.247(e)	A8.2 (2)	Power spectral density	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.

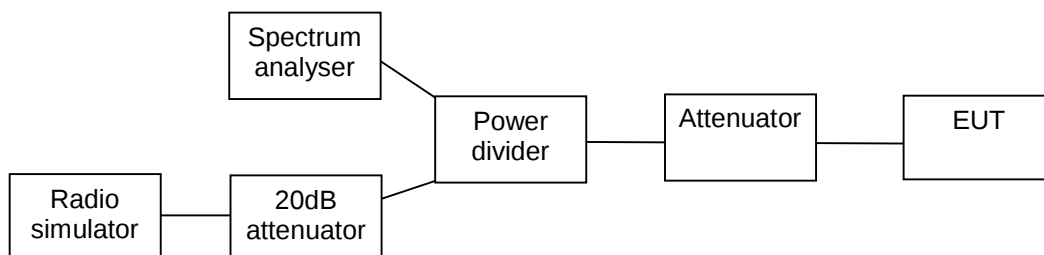
The test was not performed by the TCC Nokia Beijing Laboratory.

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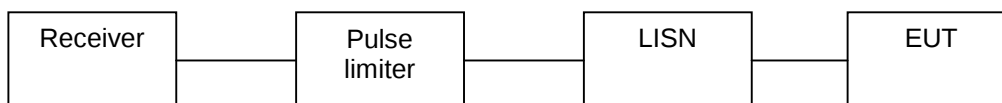
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2. Test setups

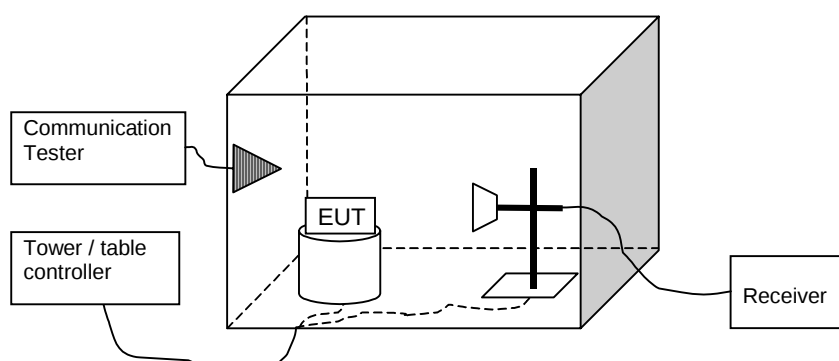
2.1. Conducted RF test setup



2.2. AC powerline conducted emissions test setup



2.3. Spurious radiated emissions test setup



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

EUT with DUT number	RM-313, DUT 50683
Accessories with DUT numbers	BP-6MT, DUT 50684; AC-5, DUT 50685; HS-43, DUT 50679
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	18 / 72 /100.5
Date of measurements	17.09.2007
Measured by	Yin Hongpeng

3.1. 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:

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

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

3.2. Bluetooth Test results

3.2.1 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	60.80	1,096.48	52.50	8.3	HORIZONTAL	PASSED
7206.000000	48.20	257.04	35.50	12.7	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
4804.000000	49.30	291.74	41.00	8.3	HORIZONTAL	PASSED
7206.000000	35.50	59.57	22.80	12.7	HORIZONTAL	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
38.235872	10.50	3.35	37.10	-26.6	VERTICAL	PASSED
39.259719	13.70	4.84	40.80	-27.1	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
4883.769539	59.80	977.24	52.30	7.5	HORIZONTAL	PASSED
7325.151303	49.10	285.10	36.80	12.3	HORIZONTAL	PASSED
14481.459920	54.10	506.99	31.20	22.9	VERTICAL	PASSED
15491.975952	56.60	676.08	30.50	26.1	HORIZONTAL	PASSED
15701.908818	58.10	803.53	31.50	26.6	VERTICAL	PASSED
16099.198397	60.40	1,047.13	32.90	27.5	HORIZONTAL	PASSED
17837.681363	61.70	1,216.19	30.10	31.6	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
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4883.769539	47.70	242.66	40.20	7.5	HORIZONTAL	PASSED
7325.151303	35.40	58.88	23.10	12.3	HORIZONTAL	PASSED
14478.459920	41.20	114.82	18.30	22.9	VERTICAL	PASSED
15484.975952	43.50	149.62	17.50	26.0	HORIZONTAL	PASSED
15708.408818	44.70	171.79	18.10	26.6	VERTICAL	PASSED
16101.198397	47.30	231.74	19.80	27.5	HORIZONTAL	PASSED
17843.181363	48.80	275.42	17.20	31.6	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	56.40	660.69	51.10	5.3	VERTICAL	PASSED
7440.000000	49.90	312.61	37.60	12.3	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
4960.000000	43.10	142.89	37.80	5.3	VERTICAL	PASSED
7440.000000	36.80	69.18	24.50	12.3	HORIZONTAL	PASSED

3.2.2 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	55.70	609.54	47.40	8.3	HORIZONTAL	PASSED
7206.000000	47.20	229.09	34.50	12.7	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	44.00	158.49	35.70	8.3	HORIZONTAL	PASSED
7206.000000	34.70	54.33	22.00	12.7	HORIZONTAL	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
38.095391	9.70	3.05	36.20	-26.5	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
4884.267535	51.80	389.05	44.30	7.5	VERTICAL	PASSED
11371.747495	53.40	467.74	32.20	21.2	VERTICAL	PASSED
14499.491984	55.00	562.34	32.10	22.9	HORIZONTAL	PASSED

15409.323647	55.70	609.54	30.40	25.3	HORIZONTAL	PASSED
15976.957916	59.30	922.57	31.90	27.4	HORIZONTAL	PASSED
16095.192385	60.50	1,059.25	33.00	27.5	VERTICAL	PASSED
17910.325651	62.30	1,303.17	30.00	32.3	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
4884.267535	39.20	91.20	31.70	7.5	VERTICAL	PASSED
11372.747495	40.70	108.39	19.50	21.2	VERTICAL	PASSED
14499.991984	42.00	125.89	19.10	22.9	HORIZONTAL	PASSED
15414.823647	43.00	141.25	17.60	25.4	HORIZONTAL	PASSED
15979.457916	45.70	192.75	18.30	27.4	HORIZONTAL	PASSED
16096.692385	47.20	229.09	19.70	27.5	VERTICAL	PASSED
17911.325651	49.10	285.10	16.80	32.3	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	51.20	363.08	45.90	5.3	VERTICAL	PASSED
7440.000000	48.40	263.03	36.10	12.3	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	34.20	51.29	28.90	5.3	VERTICAL	PASSED
7440.000000	35.40	58.88	23.10	12.3	VERTICAL	PASSED

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

EUT with DUT number	RM-313, DUT 50683
Accessories with DUT numbers	BP-6MT, DUT 50684; AC-5, DUT 50685; HS-43, DUT 50679
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	18 / 72 /100.5
Date of measurements	17.09.2007
Measured by	Yin Hongpeng

4.1. Test method and limit

The measurement is made according to DTS procedures KDB 558074 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:

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

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. WLAN Test results

4.2.1 DSSS mode, QPSK modulation, 11 Mbps data rate

Channel 1 / 2412 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
4824.000000	50.10	319.89	41.40	8.7	HORIZONTAL	PASSED
7236.000000	47.50	237.14	34.80	12.7	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
4824.000000	36.80	69.18	28.10	8.7	HORIZONTAL	PASSED
7236.000000	34.80	54.95	22.10	12.7	VERTICAL	PASSED

Channel 7 / 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
109.399198	3.20	1.45	38.10	-34.9	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
4884.269539	47.70	242.66	40.20	7.5	HORIZONTAL	PASSED
7283.059118	47.70	242.66	35.20	12.5	VERTICAL	PASSED
10930.853707	52.90	441.57	31.50	21.4	HORIZONTAL	PASSED
14498.489980	54.40	524.81	31.50	22.9	VERTICAL	PASSED
15501.497996	56.30	653.13	30.10	26.2	VERTICAL	PASSED
15971.435872	58.60	851.14	31.30	27.3	VERTICAL	PASSED
16163.826653	59.80	977.24	31.70	28.1	HORIZONTAL	PASSED
17888.783567	62.00	1,258.93	30.00	32.0	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
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4883.769539	34.50	53.09	27.00	7.5	HORIZONTAL	PASSED
7281.059118	34.90	55.59	22.30	12.6	VERTICAL	PASSED
10928.353707	40.30	103.51	18.90	21.4	HORIZONTAL	PASSED
14498.489980	41.90	124.45	19.00	22.9	VERTICAL	PASSED
15500.497996	43.80	154.88	17.60	26.2	VERTICAL	PASSED
15971.435872	45.40	186.21	18.10	27.3	VERTICAL	PASSED
16164.326653	47.20	229.09	19.10	28.1	HORIZONTAL	PASSED
17895.283567	48.90	278.61	16.80	32.1	VERTICAL	PASSED

Channel 11 / 2462 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4924.000000	44.30	164.06	37.90	6.4	VERTICAL	PASSED
7386.000000	47.30	231.74	35.20	12.1	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
4924.000000	31.60	38.02	25.20	6.4	HORIZONTAL	PASSED
7386.000000	34.50	53.09	22.40	12.1	VERTICAL	PASSED

4.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel 1 / 2412 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4824.000000	45.40	186.21	36.70	8.7	HORIZONTAL	PASSED
7236.000000	46.60	213.80	33.90	12.7	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
4824.000000	33.10	45.19	24.40	8.7	HORIZONTAL	PASSED
7236.000000	34.30	51.88	21.60	12.7	VERTICAL	PASSED

Channel 7 / 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
33.247695	16.20	6.46	40.20	-24.00	VERTICAL	PASSED
37.535872	10.70	3.43	36.90	-26.20	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
4847.195391	46.00	199.53	37.20	8.80	HORIZONTAL	PASSED
7277.549098	47.70	242.66	35.10	12.60	VERTICAL	PASSED

12426.849699	52.90	441.57	33.10	19.80	HORIZONTAL	PASSED
14496.997996	54.60	537.03	31.70	22.90	VERTICAL	PASSED
15467.939880	56.00	630.96	30.20	25.80	VERTICAL	PASSED
15841.179359	57.50	749.89	30.40	27.10	VERTICAL	PASSED
16170.836673	59.50	944.06	31.30	28.20	VERTICAL	PASSED
17886.767535	61.90	1,244.51	30.00	31.90	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
4846.195391	32.80	43.65	24.00	8.80	HORIZONTAL	PASSED
7276.049098	34.60	53.70	21.90	12.70	VERTICAL	PASSED
12427.849699	39.70	96.61	19.90	19.80	HORIZONTAL	PASSED
14494.997996	41.40	117.49	18.50	22.90	VERTICAL	PASSED
15472.939880	42.90	139.64	17.10	25.80	VERTICAL	PASSED
15841.179359	44.20	162.18	17.10	27.10	VERTICAL	PASSED
16171.336673	46.80	218.78	18.60	28.20	VERTICAL	PASSED
17883.767535	48.50	266.07	16.60	31.90	VERTICAL	PASSED

Channel 11 / 2462 MHz

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4924.000000	44.00	158.49	37.60	6.4	HORIZONTAL	PASSED
7386.000000	46.70	216.27	34.60	12.1	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
4924.000000	31.50	37.58	25.10	6.4	HORIZONTAL	PASSED
7386.000000	34.30	51.88	22.20	12.1	VERTICAL	PASSED

5. Test Equipment

5.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
BJPCPT0039	LISN	ESH3-Z5	BJPCPT0039	15C, 15B
BJPCPT0040	TEST RECEIVER	ESCS30	BJPCPT0040	15C, 15B
BJPCPT0069	LISN	ESH3-Z5	BJPCPT0069	15C, 15B
BJPCPT0079	LISN	ESH3-Z5	BJPCPT0079	15C, 15B
BJPCPT0191	PULSE LIMITER	ESH3-Z2	BJPCPT0191	15C, 15B

5.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
BJPCPT0129	Relay Unit	TS-RSP	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCPT0130	Relay Unit	TS-RSP	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCPT0080	Device Controller	EMCO2090	ETS-EMCO	22/24/27, 15C, 15B
BJPCTC0048	RF Preamplifier 10MHz-3GHz (Metal chassis)	AFS4-00100300-10-10P-4	MITEQ	22/24/27, 15C, 15B
BJPCTC0007	Ultra Broadband Antenna 30MHz-3000MHz	HL562	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCPT0162	Horn Antenna 1GHz-18GHz	HF906	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCTC0029	Horn Antenna 1GHz-18GHz	HF906	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCTC0049	RF preamplifier 3GHz-18GHz	BLMA-0118-1A-BT	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCTC0046	Shielding Enclosure	3M Test Site	ETS-Lindgren	22/24/27, 15C, 15B
BJPCTC0047	Turntable	Model 2088-1.23	ETS-EMCO	22/24/27, 15C, 15B
BJPCPT0072	EMI Test Receiver 20Hz- 26.5GHz	ESIB26	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCPT0150	High Pass filter	WHKS 1200-10SS	Wainwright instruments	22/24/27, 15C, 15B
BJPCTC0034	Notch Filter	WRCT800/880-0.2/40- 5SSK	Wainwright instruments	22, 15B
BJPCPT0151	Notch Filter	WRCD1800/2000-0.2/40- 5SSK	Wainwright instruments	24, 15B
BJPCTC0017	Radio Communication Tester	CMU200	Rohde&Schwarz	22/24/27, 15C, 15B
BJPCPT0154	Filter	WRCT2402/2480- 2400/2483.5-30-20SS	Wainwright instruments	15C, 15B
BJPCTC0058	Bluetooth tester	CBT	Rohde&Schwarz	15C, 15B
BJPCTC0064	WCDMA II FILTER	WRCG1877/1883- 1870/1890-40/6SS	Wainwright instruments	24, 15B
BJPCTC0065	WCDMA V FILTER	WRCG832/838-825/845- 40/5SS	Wainwright instruments	22, 15B