

FCC Part 15C Compliance Test Report

Test Report no.:	FCC15C_RM-601_11.docx	Date of Report:	16-Oct-2010
Number of pages:	16	Customer's Contact person:	Kari Koskela
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FCC listing no.:	533467		
IC recognition no.:	661V-1		
Tested devices/ accessories:	Phone RM-601 / Battery BL-5CT / Headset WH-102 / AC-Charger AC-15E		
FCC ID:	PYARM-601	IC:	661V-RM601
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-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:			

Sami Lehtonen, System Specialist, EMC

1. Summary for FCC Part 15C Compliance Test Report

Date of receipt	07-Oct-2010
Testing completed	15-Oct-2010
The customer's contact person	Kari Koskela
Test Plan referred to	T:\Projects\RM-601\TestPlan\RS_testplan_RM-601_CR_BOB_ES43_ES62.xls
Notes	-
Document name	T:\Projects\RM-601\EMC\FCC15C_RM-601_11.docx

1.1. EUT and Accessory Information

The EUT is a 9-band (GSM850/900/1800/1900) and WCDMA Band (I/II(1900)/IV(1700)/V(850)/VIII) mobile phone with GPRS, EGPRS, HSDPA, HSUPA and WLAN and Bluetooth. Bluetooth and WLAN are tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-601	35375804000900960585851	0500	-		15280
Battery	BL-5CT	363563035504040459460670555	-	-		15281
Headset	WH-102	06943230245H4102263	-	-		15282
AC-Charger	AC-15E	409049020123080108660675463	-	-		15283

1.2. Summary of Test Results

WLAN:

Section in CFR 47	Section in RSS-GEN or RSS-210	Name of the test	Result
15.247(b)(1)	A8(0.4(4))	Conducted peak output power	NP
15.247(d)	A8(0.5)	Band edge compliance of RF emissions	PASSED
15.247(d)	A8(0.5)	Spurious RF conducted emissions	NP
15.247(d), 15.209	A8(0.5)	Spurious radiated emissions	PASSED
15.207	7.2.2	AC powerline conducted emissions	NP
15.247(a)(2)	A8(0.1(1))	6dB(bandwidth)	NP
		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 Laboratory.

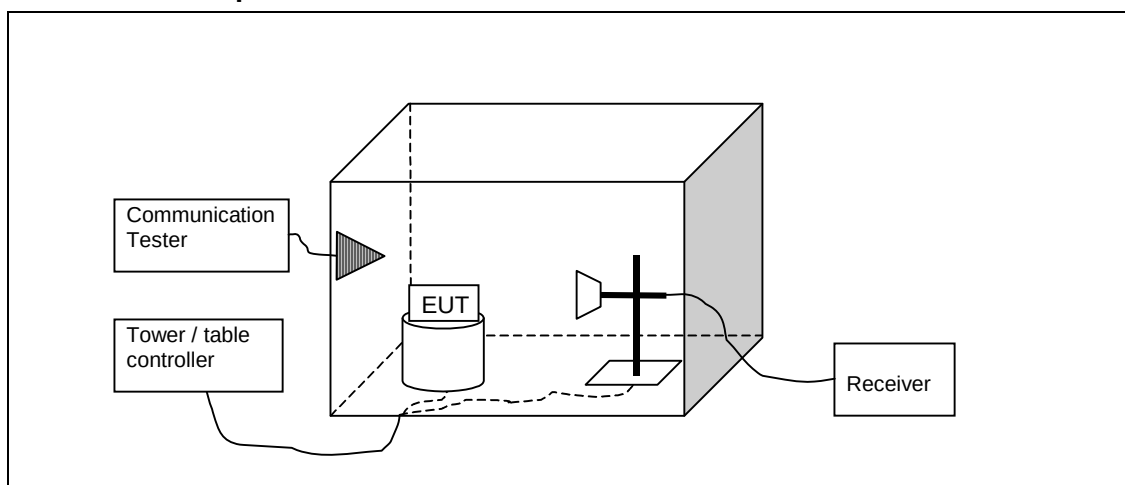
CONTENTS

1. Summary for FCC Part 15C Compliance Test Report	2
1.1. EUT and Accessory Information	2
1.2. Summary of Test Results	2
2. Band edge compliance of RF emissions (FCC §15.247(d), RSS-210 A8.5)	4
2.2. Test method and limit	4
2.3. WLAN DSSS mode Test results	5
2.4. WLAN OFDM mode Test results	6
2.5. WLAN 802.11n HT20 MCS 0 mode Test results	7
3. Spurious radiated emissions (FCC §15.247(d), §15.209, RSS-210 A8.5)	8
3.2. Test method and limit	8
3.3. WLAN Test results	10
4. Test Equipment	15
4.1. Conducted measurements	15
4.2. Radiated measurements	15

2. Band edge compliance of RF emissions (FCC §15.247(d), RSS-210 A8.5)

EUT with DUT number	RM-601, DUT 15280
Accessories with DUT numbers	BL-5CT, DUT 15281 ; WH-102, DUT 15282 ; AC-15E, DUT 15283
Operation Voltage [V] / [Hz]	115 / 60
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 60 / 100.6
Date of measurements	15-Oct-2010
Measured by	Sami Lehtonen

2.1.1 Test Setup



2.2. Test method and limit

The measurement is made according to DTS procedures KDB 558074 and IC standard RSS-210.

Limits for band edge compliance of RF emissions measurements (3 m measurement distance)

Frequency range [MHz]	Limit Average [dBμV/m]	Limit Peak [dBμV/m]
Below 2390 and above 2483.5	<=54	<=74

2.3. WLAN DSSS mode Test results

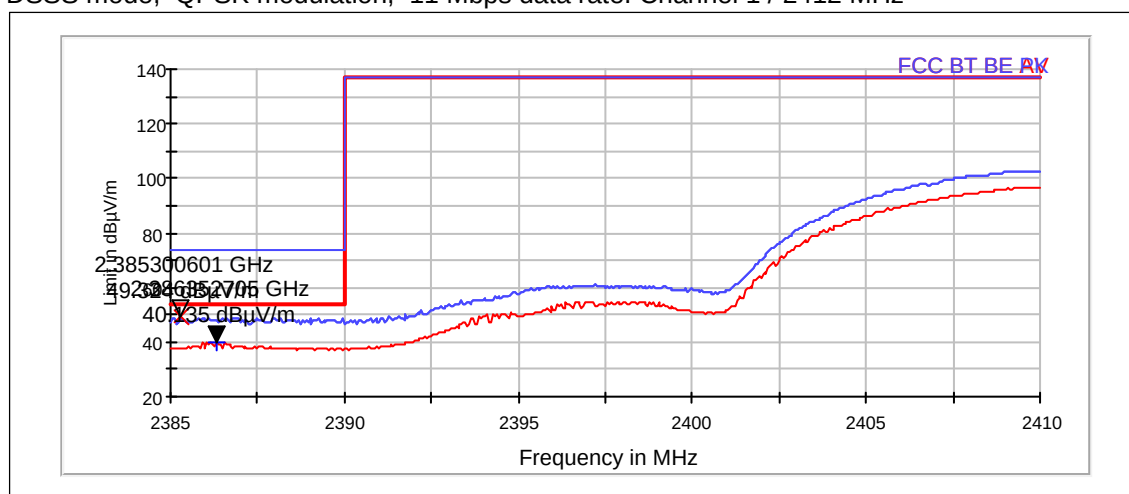
Average (RBW: 1 MHz, VBW: 1 MHz)

Channel / f_c [MHz]	E [dB μ V/m]	Result
1 / 2412 (DSSS, QPSK, 11)	40.14	PASSED
11 / 2462 (DSSS, QPSK, 11)	37.79	PASSED

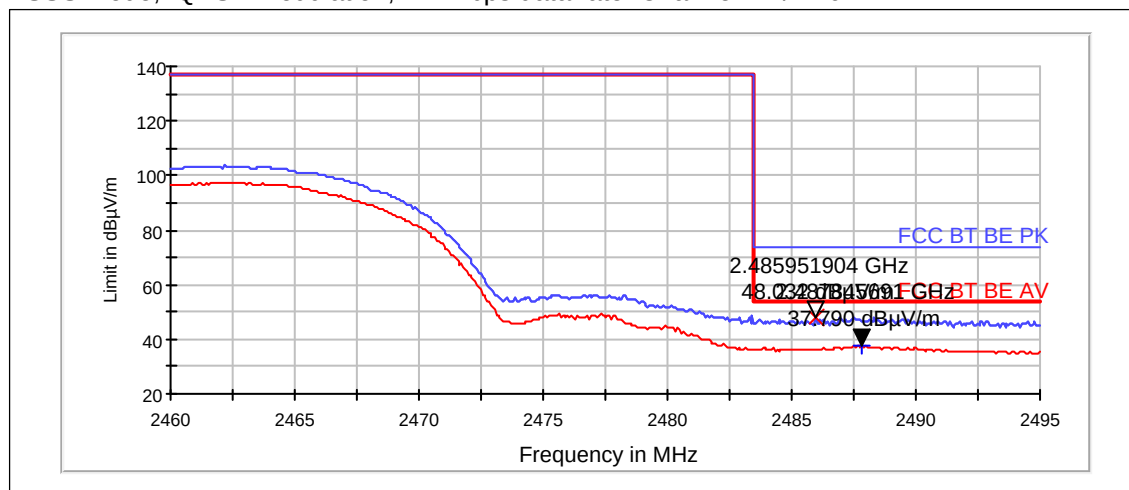
Peak (RBW: 1 MHz, VBW: 1 MHz)

Channel / f_c [MHz]	E [dB μ V/m]	Result
1 / 2412 (DSSS, QPSK, 11)	49.32	PASSED
11 / 2462 (DSSS, QPSK, 11)	48.03	PASSED

DSSS mode, QPSK modulation, 11 Mbps data rate. Channel 1 / 2412 MHz



DSSS mode, QPSK modulation, 11 Mbps data rate. Channel 11 / 2462 MHz



2.4. WLAN OFDM mode Test results

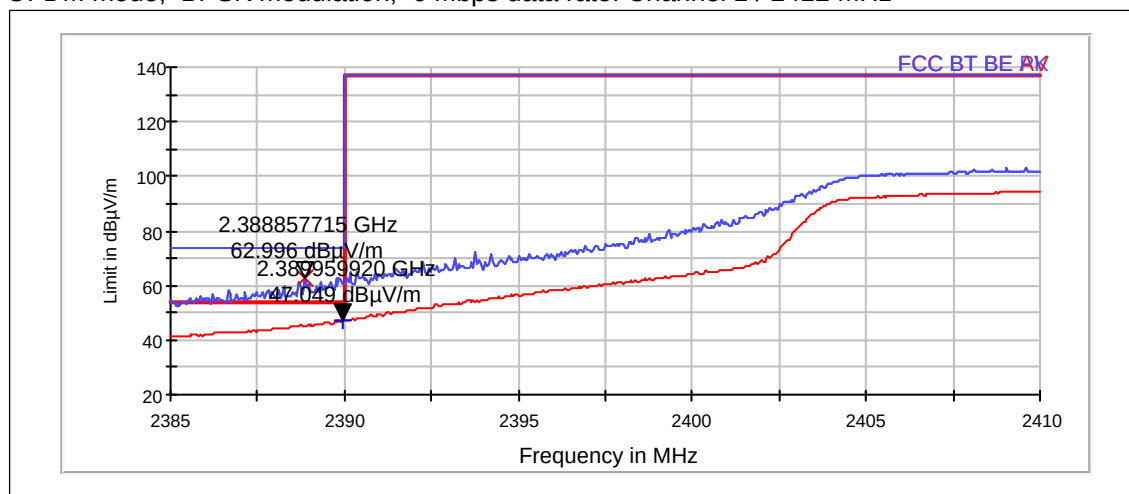
Average (RBW: 1 MHz, VBW: 1 MHz)

Channel / f_c [MHz]	E [dB μ V/m]	Result
1 / 2412 (OFDM, BPSK, 6)	47.05	PASSED
11 / 2462 (OFDM, BPSK, 6)	44.89	PASSED

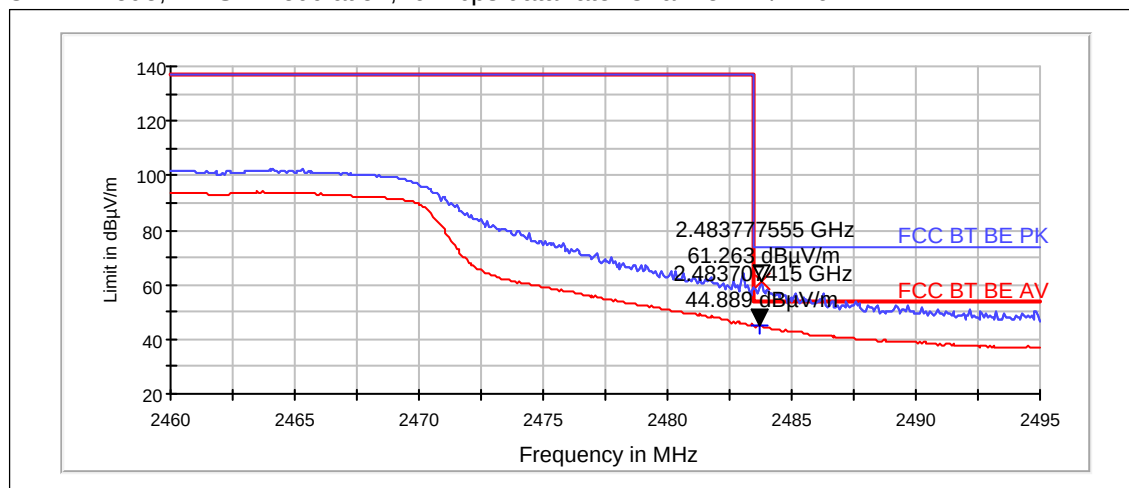
Peak (RBW: 1 MHz, VBW: 1 MHz)

Channel / f_c [MHz]	E [dB μ V/m]	Result
1 / 2412 (OFDM, BPSK, 6)	63	PASSED
11 / 2462 (OFDM, BPSK, 6)	61.26	PASSED

OFDM mode, BPSK modulation, 6 Mbps data rate. Channel 1 / 2412 MHz



OFDM mode, BPSK modulation, 6 Mbps data rate. Channel 11 / 2462 MHz



2.5. WLAN 802.11n HT20 MCS 0 mode Test results

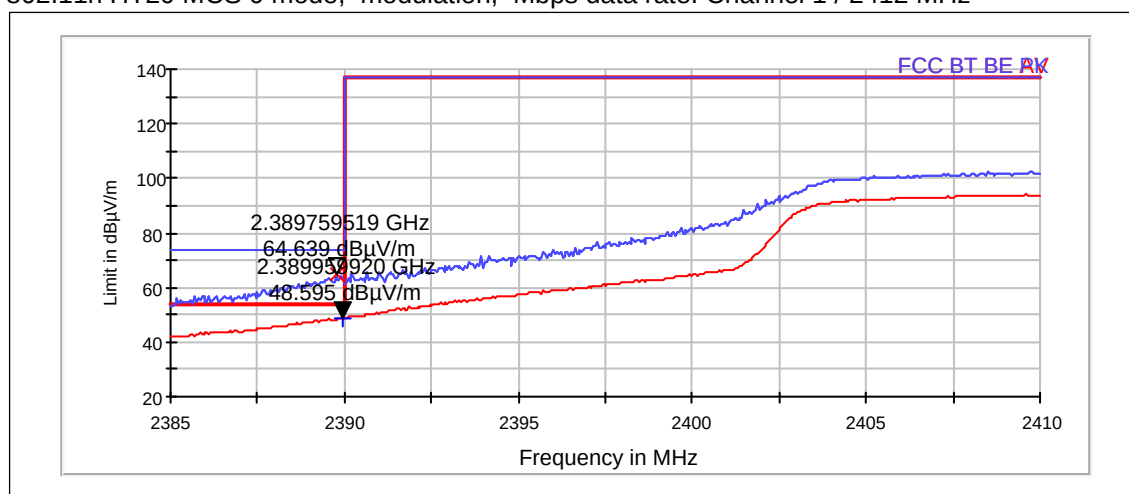
Average (RBW: 1 MHz, VBW: 1 MHz)

Channel / f_c [MHz]	E [dB μ V/m]	Result
1 / 2412 (802.11n HT20 MCS 0)	48.59	PASSED
11 / 2462 (802.11n HT20 MCS 0)	46.46	PASSED

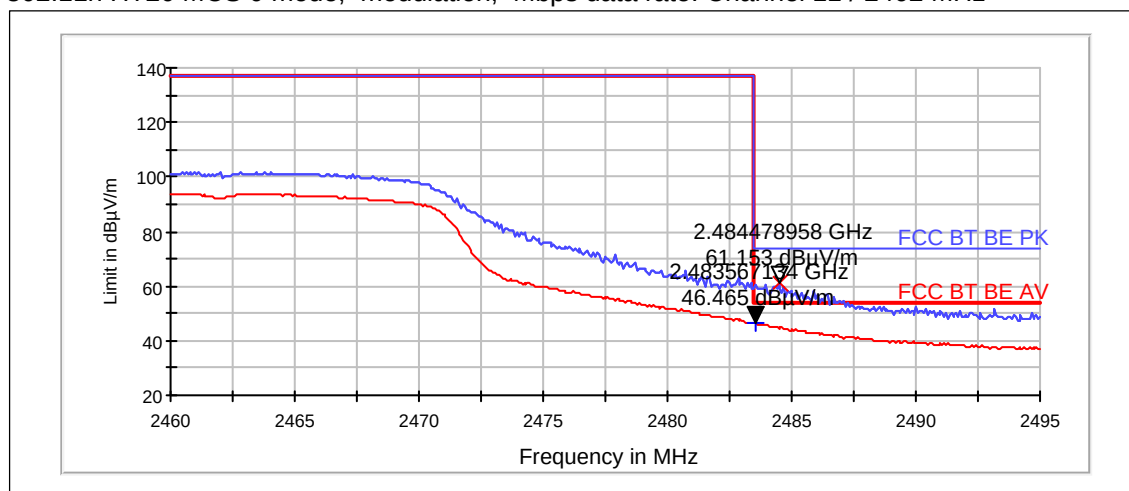
Peak (RBW: 1 MHz, VBW: 1 MHz)

Channel / f_c [MHz]	E [dB μ V/m]	Result
1 / 2412 (802.11n HT20 MCS 0)	64.64	PASSED
11 / 2462 (802.11n HT20 MCS 0)	61.15	PASSED

802.11n HT20 MCS 0 mode, modulation, Mbps data rate. Channel 1 / 2412 MHz



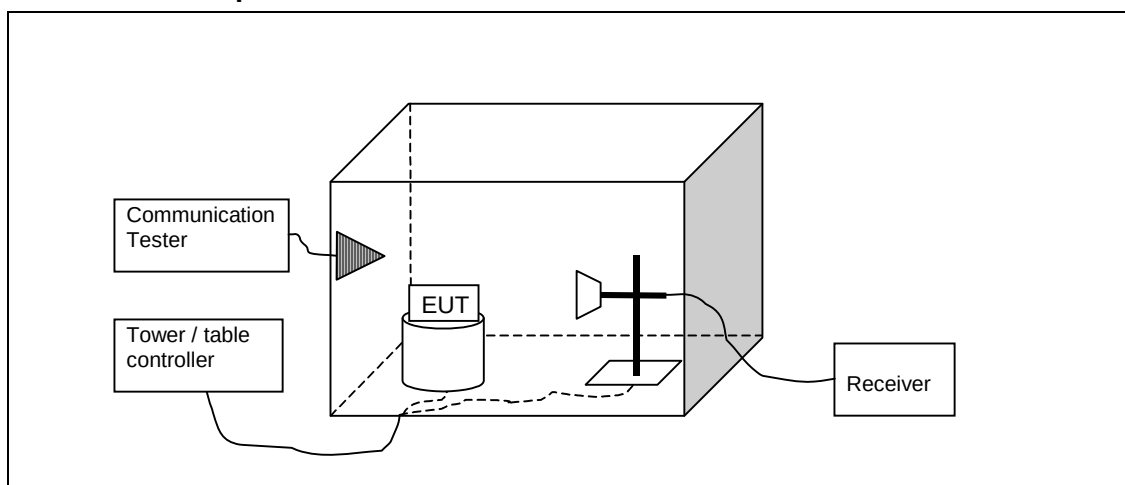
802.11n HT20 MCS 0 mode, modulation, Mbps data rate. Channel 11 / 2462 MHz



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

EUT with DUT number	RM-601, DUT 15280
Accessories with DUT numbers	BL-5CT, DUT 15281 ; WH-102, DUT 15282 ; AC-15E, DUT 15283
Operation Voltage [V] / [Hz]	115 / 60
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 58 / 100.7
Date of measurements	14-Oct-2010
Measured by	Sami Lehtonen

3.1.1 Test Setup



3.2. 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 ($A_{TOT} = L_{CABLES} + A_F - G_{PREAMP}$).

Limits for spurious radiated emissions measurements (3 m measurement distance)

Frequency range [MHz]	Limit [$\mu V/m$]	Limit [dB $\mu V/m$]	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

3.3. WLAN Test results

3.3.1 802.11n HT20 MCS0

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
4825.2	40.03	100.392	44.41	-4.38	VERTICAL	PASSED
7236.5	45.68	192.287	45.2	0.48	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
4825.2	26.87	22.06	31.25	-4.38	VERTICAL	PASSED
7236.5	32.55	42.423	32.07	0.48	HORIZONTAL	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
43.238	30.1	31.985	48.03	-17.93	VERTICAL	PASSED
43.507	29.93	31.362	48.02	-18.09	VERTICAL	PASSED
43.606	21.38	11.721	39.52	-18.14	VERTICAL	PASSED
43.758	31.69	38.402	49.92	-18.23	VERTICAL	PASSED
43.767	30.23	32.46	48.47	-18.24	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
2288.178	51.27	365.847	55.47	-4.2	VERTICAL	PASSED
10842.885	52.29	411.671	43.12	9.17	VERTICAL	PASSED
10946.494	52.49	421.163	43.12	9.37	VERTICAL	PASSED
17998.798	63.95	1575.796	42.25	21.7	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
2288.178	30.96	35.335	35.16	-4.2	VERTICAL	PASSED
10842.885	39.41	93.422	30.24	9.17	VERTICAL	PASSED
10946.494	39.4	93.272	30.03	9.37	VERTICAL	PASSED
17998.798	50.61	339.352	28.91	21.7	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
4924.6	41.15	114.091	45.2	-4.05	VERTICAL	PASSED
7384.5	45.46	187.435	44.28	1.18	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
4924.6	28.09	25.38	32.14	-4.05	VERTICAL	PASSED
7384.5	33.07	45.019	31.89	1.18	VERTICAL	PASSED

3.3.2 OFDM mode and BPSK modulation, data rate 6MB/s

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
4822	39.41	93.444	43.81	-4.4	VERTICAL	PASSED
7235.7	45.48	187.845	45	0.48	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
4822	26.7	21.625	31.1	-4.4	VERTICAL	PASSED
7235.7	32.41	41.754	31.93	0.48	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
37.446	30.34	32.881	44.87	-14.53	VERTICAL	PASSED
37.516	30.96	35.335	45.53	-14.57	VERTICAL	PASSED
37.639	31.03	35.588	45.68	-14.65	VERTICAL	PASSED
38.167	30.46	33.343	45.43	-14.97	VERTICAL	PASSED
38.678	30.86	34.902	46.14	-15.28	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
2288.306	52.43	418.215	54.8	-2.37	HORIZONTAL	PASSED
10718.737	51.35	369.403	42.42	8.93	HORIZONTAL	PASSED
10848.397	53.27	460.84	44.07	9.2	VERTICAL	PASSED
17986.974	63.56	1506.26	42.17	21.39	VERTICAL	PASSED

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

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
2288.306	32.62	42.751	34.99	-2.37	HORIZONTAL	PASSED
10718.737	38.68	85.872	29.75	8.93	HORIZONTAL	PASSED
10848.397	39.23	91.559	30.03	9.2	VERTICAL	PASSED
17986.974	50.16	322.107	28.77	21.39	VERTICAL	PASSED

Channel 11 / 2462 MHz

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

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	
4924.6	40.42	104.918	44.47	-4.05	HORIZONTAL	PASSED
7385.3	45.38	185.674	44.21	1.17	HORIZONTAL	PASSED

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

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	
4924.6	27.51	23.727	31.56	-4.05	HORIZONTAL	PASSED
7385.3	32.76	43.446	31.59	1.17	HORIZONTAL	PASSED

3.3.3 DSSS mode and QPSK modulation, data rate 11MB/s

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	
4824.6	39.55	94.962	43.94	-4.39	HORIZONTAL	PASSED
7236.6	45.08	179.494	44.6	0.48	VERTICAL	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	
4824.6	26.67	21.553	31.06	-4.39	HORIZONTAL	PASSED
7236.6	32.31	41.252	31.83	0.48	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	
37.508	19.03	8.939	33.6	-14.57	VERTICAL	PASSED
37.645	18.18	8.113	32.83	-14.65	VERTICAL	PASSED
37.656	28.56	26.789	43.22	-14.66	VERTICAL	PASSED
43.808	29.17	28.751	47.43	-18.26	VERTICAL	PASSED
44.448	29.1	28.497	47.73	-18.63	VERTICAL	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	
2279.902	51.75	386.634	53.82	-2.07	HORIZONTAL	PASSED
2283.518	52.71	432.066	54.94	-2.23	HORIZONTAL	PASSED
3907.616	37.7	76.771	44.33	-6.63	HORIZONTAL	PASSED
11267.135	51.41	371.835	42.55	8.86	HORIZONTAL	PASSED
17987.076	63.06	1422.656	41.67	21.39	HORIZONTAL	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	
2279.902	32.54	42.379	34.61	-2.07	HORIZONTAL	PASSED
2283.518	32.52	42.257	34.75	-2.23	HORIZONTAL	PASSED
3907.616	24.92	17.62	31.55	-6.63	HORIZONTAL	PASSED
11267.135	39.11	90.282	30.25	8.86	HORIZONTAL	PASSED
17987.076	50.09	319.485	28.7	21.39	HORIZONTAL	PASSED

Channel 11 / 2462 MHz

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

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	
4924	43.24	145.178	47.29	-4.05	VERTICAL	PASSED
7387.4	45.64	191.514	44.46	1.18	HORIZONTAL	PASSED

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

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	
4924	30.22	32.423	34.27	-4.05	VERTICAL	PASSED
7387.4	32.92	44.238	31.74	1.18	HORIZONTAL	PASSED

4. Test Equipment

4.1. 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
1986	GPS Antenna	AMHP10-15R/390	European Antenna	15C, 15B
1992	Signal Generator	83630B	Agilent	15C, 15B
2039	Power Supply	PL330QMD	Thurlby	15C, 15B
2060	LISN 50 µH	ESH3-Z5	R&S	15C, 15B
2068	CDN	S1	NMP	15C, 15B
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
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	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
6016	ESD gun	PESD 1610	HAEFELY	-
-	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 Emission Software	ES-K1 v.1.71	R&S	22/24/27, 15C, 15B
6036	Data Logger	175-H2	Testo	22/24/27, 15C, 15B
6038	Data Logger	Testo 580	Testo	23/24/27, 15C, 15B
6039	USB Interface	5541765	Testo	23/24/27, 15C, 15B
2059	V-network	ESH3-Z6	R&S	-
6044	V-network	ESH3-Z6	R&S	-
6045	Power splitter	11667B	Agilent	23/24/27, 15C
6046	Attenuator 10dB	8493C	Agilent	23/24/27, 15C
6047	Attenuator 20dB	8493C	Agilent	23/24/27, 15C

4.2. 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
1986	GPS Antenna	AMHP10-15R/390	European Antenna	15C, 15B
1988	Antenna	HL562	R&S	22/24/27, 15C, 15B
1989	Relay Switch Unit	TS-RSP	R&S	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
2047	Band Reject Filter	WRCC1800/2000-0,2-10SS	Wainwright	24

Eq. No	Equipment	Type	Manufacturer	Used in
2051	High Pass Filter	4HC1700-1-KK	R&S	22
2109	Power Supply	PL330QMD	Thurlby	22/24/27, 15C, 15B
2116	Controller	EMCO 2090	ETS	22/24/27, 15C, 15B
2135	CDN	CDN 801-M3	Lüthi	22/24/27, 15C, 15B
2140	Antenna	EMCO93110B	EMCO	22/24/27, 15C
2142	Antenna	3146	EMCO	22/24/27, 15C
2150	High Pass Filter	F-15041	RLC	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
2188	Preamplifier	AFS4-00100300-20-23P-6	Miteq	22/24/27, 15C, 15B
2347	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2348	Controller	G-1000DXC	Yaesu	22/24/27, 15C, 15B
2349	Computer Controller	GS-232B	Yaesu	22/24/27, 15C, 15B
2350	Preamplifier	AMF-6D-020180-29-20P	Miteq	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
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
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
-	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 Emission Software	ES-K1 v.1.71	R&S	22/24/27, 15C, 15B
-	RF immunity / Emission Software	EMC32	R&S	22/24/27, 15C, 15B
6037	Data Logger	175-H2	Testo	23/24/27, 15C, 15B
6038	Data Logger	Testo 580	Testo	23/24/27, 15C, 15B
6039	USB Interface	5541765	Testo	23/24/27, 15C, 15B