

FCC Part 15C Compliance Test Report

Test Report no.:	FCC15CWLAN_RM-823_05.docx	Date of Report:	04-Jan-2012
Number of pages:	17	Customer's Contact person:	Ronald Chernus
Testing laboratory:	TCC Nokia Salo Laboratory P.O.Box(86) Joensuunkatu 7H / Kiila 1B FIN-24101 SALO, FINLAND Tel. +358 (0) 7180 08000 Fax. +358 (0) 7180 45220	Customer:	Nokia Corporation 16620 West Bernardo Drive San Diego, CA 92127 USA Tel. +1 858 831 5000 Fax. +1 858-385-1598
FCC listing no.:	533467		
IC recognition no.:	661V-1		
Tested devices/ accessories:	Phone RM-823 / Battery BP-6EW_SDI / Headset WH-902 / AC-Charger AC-16		
FCC ID:	QMNRM-823	IC:	-
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 8, December 2010). 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, Engineer, EMC

1. Summary for FCC Part 15C Compliance Test Report

Date of receipt	19-Dec-2011
Testing completed	27-Dec-2011
The customer's contact person	Sonja Länkinen
Test Plan referred to	T:\Projects\RM-823\TestPlan\RS_testplan_RM-823.xls
Notes	-
Document name	T:\Projects\RM-823\EMC\FCC15CWLAN_RM-823_05.docx

1.1. EUT and Accessory Information

The EUT is a 8-band mobile phone:

GSM850/900/1800/1900

WCDMA I/II(1900)/V(850)/VIII

The EUT is tested with maximum rated TX power, modulated with pseudo random bit sequence (PRBS9).

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-823	0044021374405526059K198	0202		2175.0002.8104.11490	16112
Battery	BP-6EW SDI	-	-	-	-	16113
Headset	WH-902					16062
AC-Charger	AC-16	4090491166580400050;0675491	0.31	0.3	-	15660

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)	A8.4 (4)	Conducted peak output power	NP
15.247(d)	A8.5	Band edge compliance of RF emissions	PASSED
15.247(d)	A8.5	Spurious RF conducted emissions	NP
15.247(d), 15.209	A8.5	Spurious radiated emissions	PASSED
15.207	7.2.2	AC powerline conducted emissions	NP
15.247(a)(2)	A8.2 (a)	6dB(bandwidth)	NP
15.247(e)	A8.2 (b)	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.

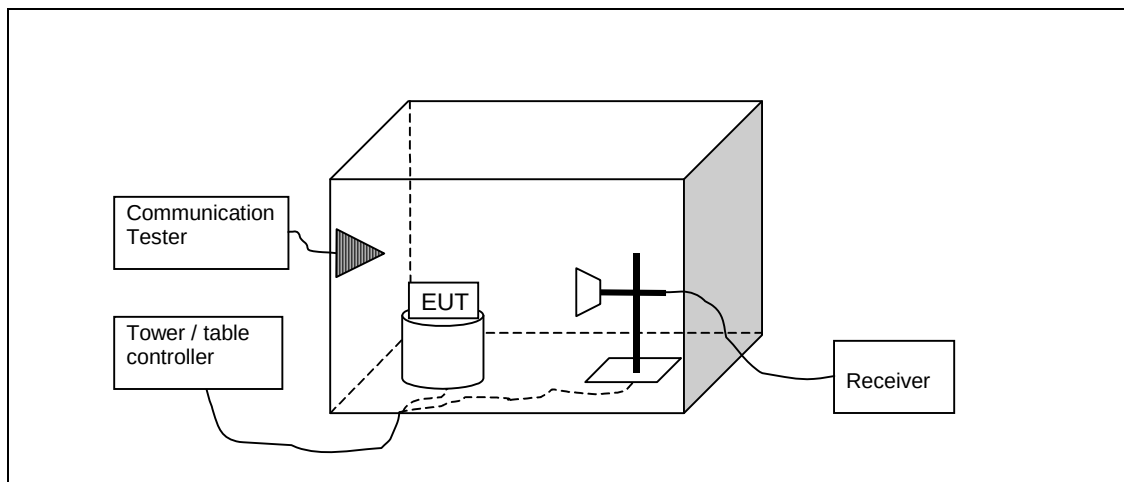
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2. Band edge compliance of RF emissions (FCC §15.247(d))

EUT with DUT number	RM-823, DUT 16112
Accessories with DUT numbers	BP-6EW_SDI, DUT 16113 ; WH-902, DUT 16062 ; AC-16, DUT 15660
Operation Voltage [V] / [Hz]	115 / 60
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 40 / 100.0
Date of measurements	27-Dec-2011
Measured by	Kalle Hannila / Jari Keto

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 modes Test results

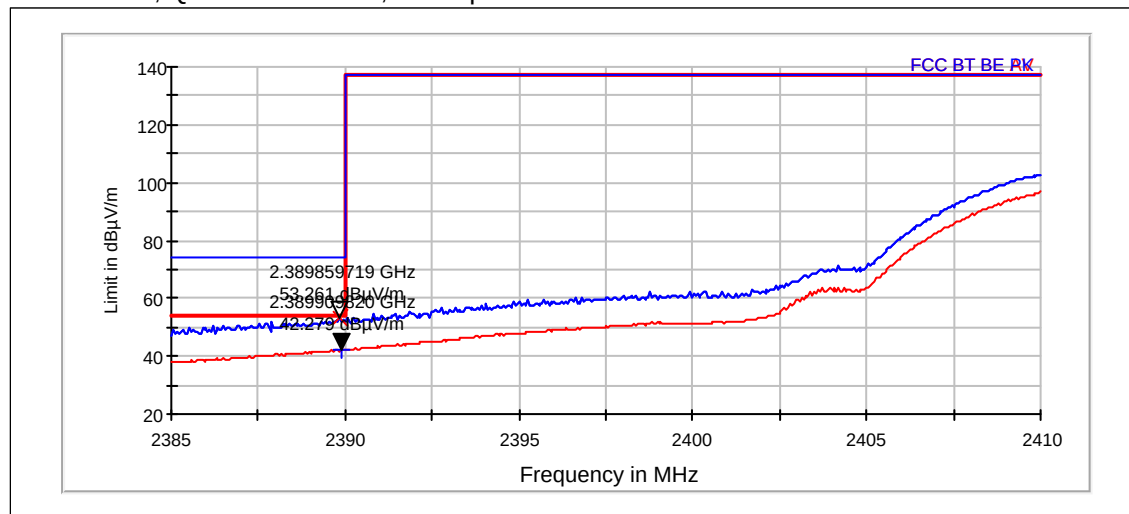
Average (RBW: 1 MHz, VBW: 1 MHz)

Channel / f_c [MHz]	E [dB μ V/m]	Result
1 / 2412 (DSSS, QPSK, channel 1)	42.28	PASSED
11 / 2462 (DSSS, QPSK, 11)	50.06	PASSED
1 / 2412 (OFDM, PBSK,6)	45.8	PASSED
11 / 2462 (OFDM,PBSK,6)	53.82	PASSED
1 / 2412 (802.11n HT20,MCS0,6,5)	48.4	PASSED
11 / 2462 (802.11n HT20,MS0,6,5)	53.82	PASSED

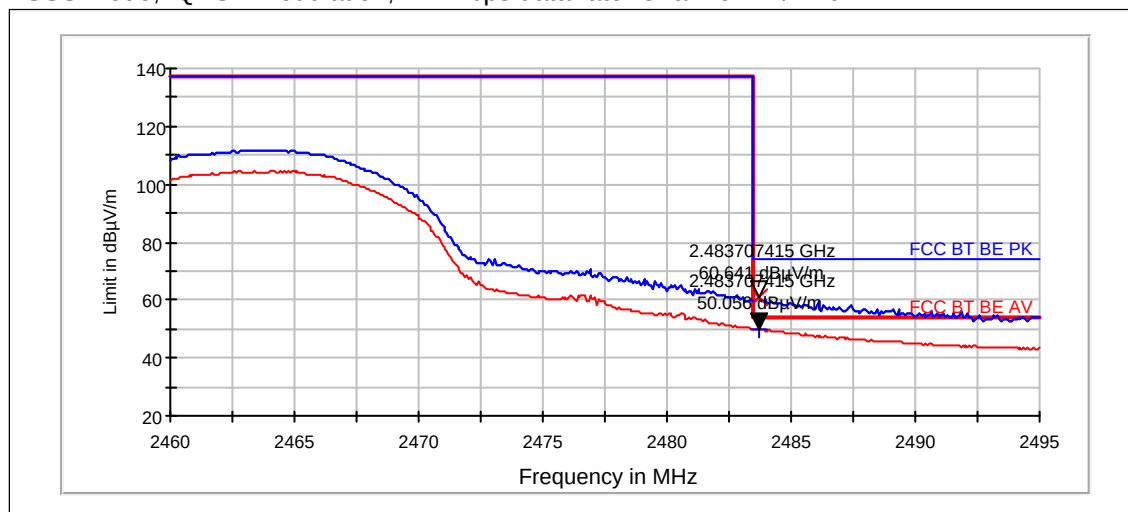
Peak (RBW: 1 MHz, VBW: 1 MHz)

Channel / f_c [MHz]	E [dB μ V/m]	Result
1 / 2412 (DSSS, QPSK, channel 1)	53.26	PASSED
11 / 2462 (DSSS, QPSK, 11)	60.64	PASSED
1 / 2412 (OFDM, PBSK,6)	62.64	PASSED
11 / 2462 (OFDM,PBSK,6)	71.62	PASSED
1 / 2412 (802.11n HT20,MCS0,6,5)	62.67	PASSED
11 / 2462 (802.11n HT20,MCS0,6,5)	68.65	PASSED

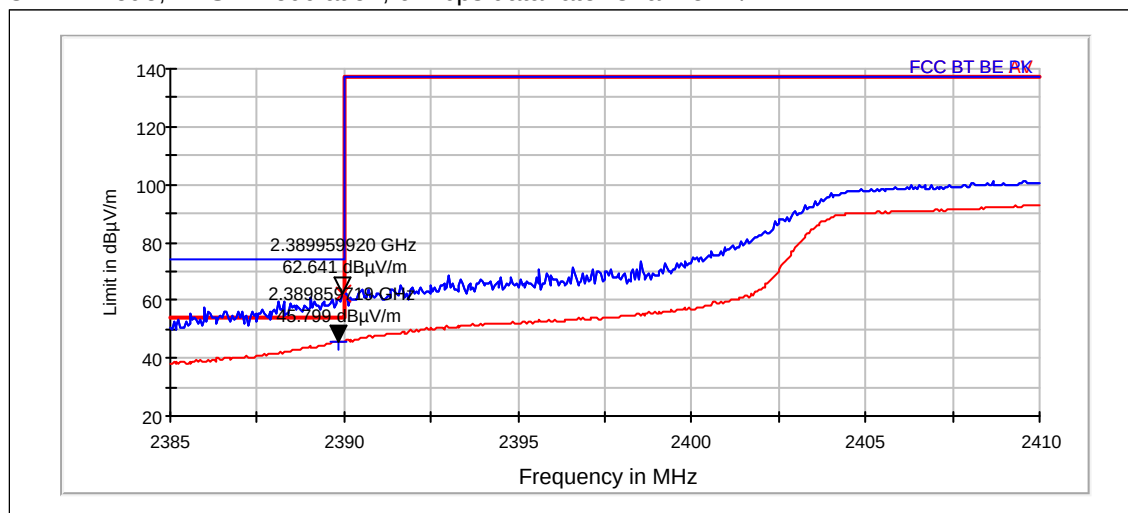
DSSS mode, QPSK modulation, 11Mbps data rate. Channel 1 / 2412 MHz



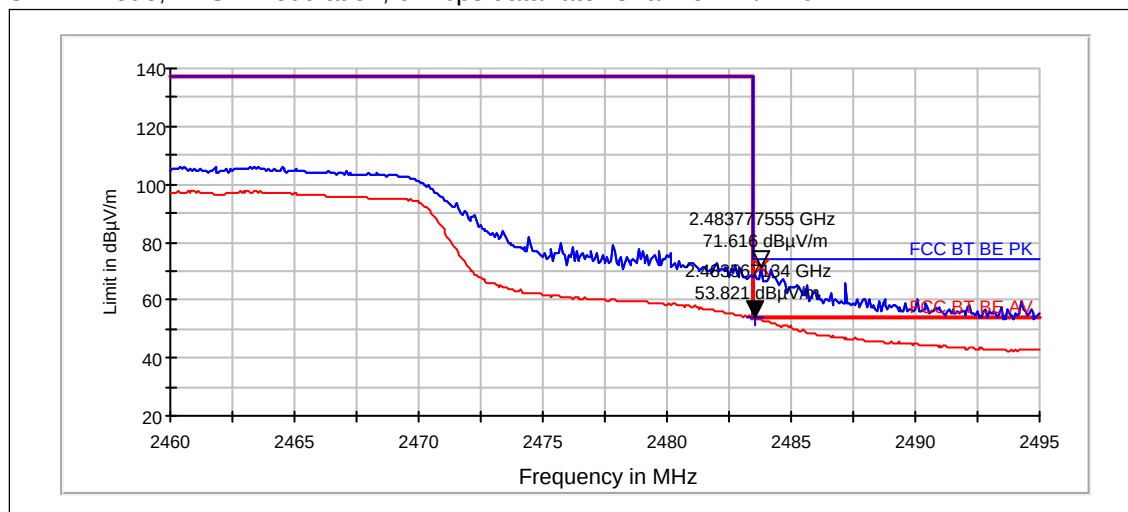
DSSS mode, QPSK modulation, 11 Mbps data rate. Channel 11 / 2462 MHz



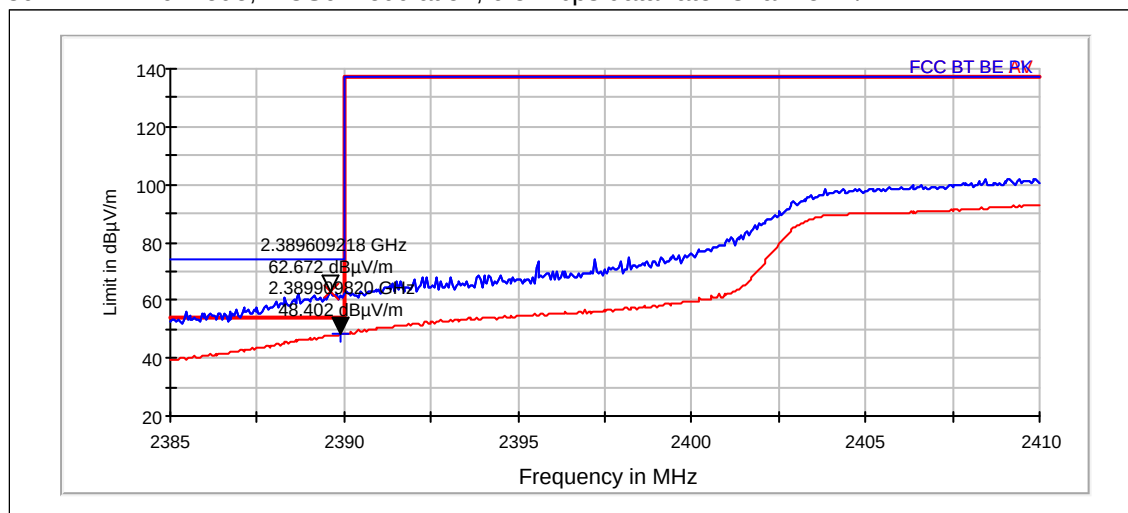
OFDM mode, PBSK modulation, 6 Mbps data rate. Channel 1 / 2412 MHz



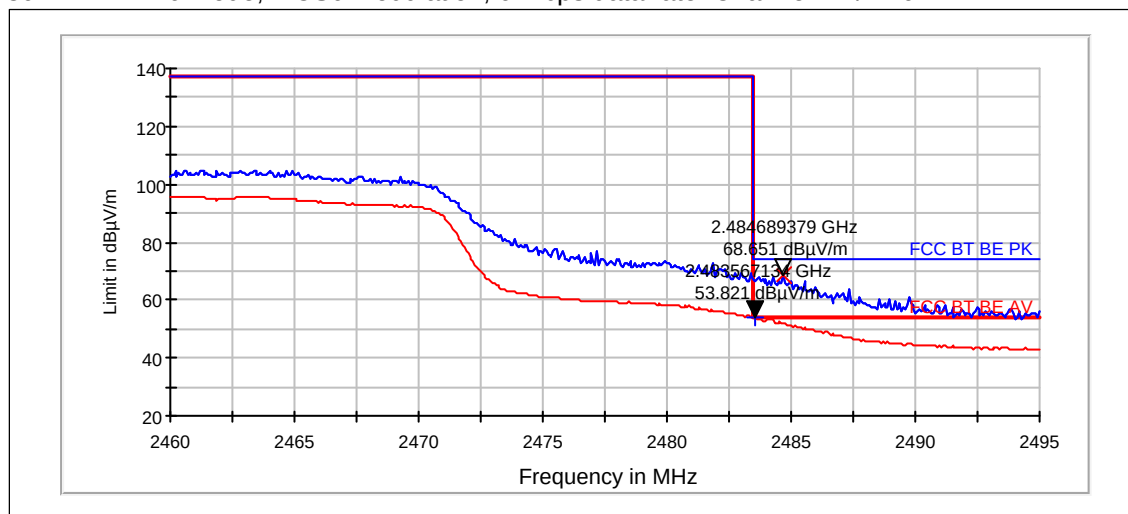
OFDM mode, PBSK modulation, 6 Mbps data rate. Channel 11 / 2462 MHz



802.11n HT20 mode, MCS0 modulation, 6.5 Mbps data rate. Channel 1 / 2412 MHz



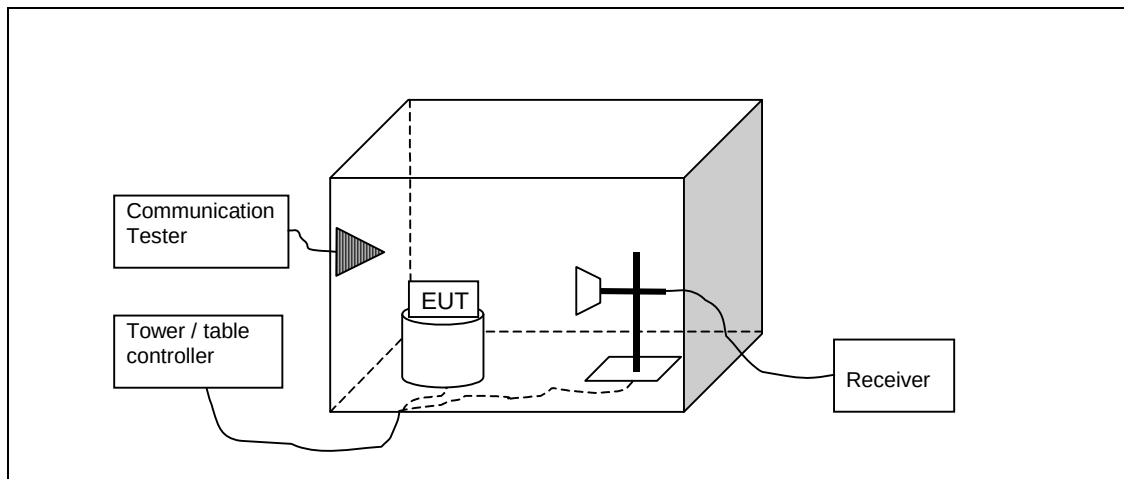
802.11n HT20 mode, MCS0 modulation, 6 Mbps data rate. Channel 11 / 2462 MHz



3. Spurious radiated emissions (FCC §15.247(d))

EUT with DUT number	RM-823, DUT 16112
Accessories with DUT numbers	BP-6EW_SDI, DUT 16113 ; WH-902, DUT 16062 ; AC-16, DUT 15660
Operation Voltage [V] / [Hz]	115 / 60
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 40 / 100.0
Date of measurements	27-Dec-2011
Measured by	Kalle Hannila / Jari Keto

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:

$$E [\mu V/m] = {}_{UR}X + {}_{ATO}T$$

Where ${}_{UR}X$ is receiver reading and ${}_{ATO}T$ is total correction factor including cable loss, antenna factor and preamplifier gain (${}_{ATO}T = {}_{LCABLE}S + {}_AF - {}_{GPREAM}P$).

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 DSSS mode, QPSK modulation, data rate 11Mbit/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
4824	53.3	462.221	58.09	-4.79	HORIZONTAL	PASSED
7234.9	44.87	175.227	44.76	0.11	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
4824	42.24	129.39	47.03	-4.79	HORIZONTAL	PASSED
7234.9	32.21	40.761	32.1	0.11	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
30	28.18	25.63	38.74	-10.56	VERTICAL	PASSED
57.654	19.43	9.367	43.18	-23.75	HORIZONTAL	PASSED
60.243	12.36	4.15	38.73	-26.37	VERTICAL	PASSED
66.614	10.97	3.536	36.26	-25.29	VERTICAL	PASSED
83.017	9.82	3.097	31.86	-22.04	VERTICAL	PASSED
92.99	11.22	3.64	32.43	-21.21	HORIZONTAL	PASSED
94.245	11.05	3.569	32.18	-21.13	HORIZONTAL	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3912.829	37.08	71.458	44.15	-7.07	HORIZONTAL	PASSED
3929.763	36.89	69.904	43.89	-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
3912.829	24.29	16.381	31.36	-7.07	HORIZONTAL	PASSED
3929.763	24.33	16.463	31.33	-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
4922.8	44.72	172.108	49.26	-4.54	HORIZONTAL	PASSED
7384.8	44.69	171.554	44.02	0.67	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
4922.8	31	35.477	35.54	-4.54	HORIZONTAL	PASSED
7384.8	32.08	40.188	31.41	0.67	VERTICAL	PASSED

3.3.2 OFDM mode, PSK modulation, data rate 6MBit/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
4824.6	47.9	248.285	52.68	-4.78	HORIZONTAL	PASSED
7234.2	44.79	173.48	44.68	0.11	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
4824.6	34.06	50.478	38.84	-4.78	HORIZONTAL	PASSED
7234.2	31.91	39.405	31.8	0.11	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
30.12	29.04	28.311	39.66	-10.62	VERTICAL	PASSED
35.775	26.51	21.152	39.82	-13.31	VERTICAL	PASSED
37.687	28.48	26.534	42.89	-14.41	VERTICAL	PASSED
38.4	28.26	25.882	43.08	-14.82	VERTICAL	PASSED
38.862	27.31	23.198	42.4	-15.09	VERTICAL	PASSED
82.973	11.2	3.632	33.25	-22.05	HORIZONTAL	PASSED
848.818	22.18	12.848	34.01	-11.83	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
3915.427	36.8	69.151	43.85	-7.05	VERTICAL	PASSED
3931.763	36.98	70.599	43.98	-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
3915.427	24.53	16.852	31.58	-7.05	VERTICAL	PASSED
3931.763	24.5	16.79	31.5	-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
4924.2	43.84	155.579	48.37	-4.53	HORIZONTAL	PASSED
7387.8	45.86	196.359	45.19	0.67	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
4924.2	31.7	38.455	36.23	-4.53	HORIZONTAL	PASSED
7387.8	32.71	43.182	32.04	0.67	VERTICAL	PASSED

3.3.3 802.11n, HT20 MCS0, data rate 6.5 Mbit/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
4824.1	48.42	263.694	53.21	-4.79	HORIZONTAL	PASSED
7236.6	44.64	170.549	44.54	0.1	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
4824.1	35.1	56.892	39.89	-4.79	HORIZONTAL	PASSED
7236.6	31.68	38.388	31.58	0.1	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
30	27.3	23.161	37.86	-10.56	VERTICAL	PASSED
30.42	27.66	24.146	38.42	-10.76	VERTICAL	PASSED
30.66	27.7	24.269	38.57	-10.87	VERTICAL	PASSED
31.71	25.55	18.941	36.9	-11.35	VERTICAL	PASSED
60.198	12.33	4.137	36.71	-24.38	HORIZONT	PASSED
119.996	14.21	5.132	35.44	-21.23	HORIZONT	PASSED
193.67	10.83	3.48	34.8	-23.97	HORIZONT	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
3906.813	36.92	70.113	44.03	-7.11	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
3906.813	24.32	16.436	31.43	-7.11	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
4925.2	43.84	155.632	48.37	-4.53	HORIZONTAL	PASSED
7384.7	44.95	176.787	44.28	0.67	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
4925.2	29.64	30.353	34.17	-4.53	HORIZONTAL	PASSED
7384.7	32.16	40.528	31.49	0.67	VERTICAL	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
1992	Signal Generator	83630B	Agilent	15C, 15B
1999	Receiver	ESIB26	R&S	22/24/27, 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
-	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	22/24/27, 15C, 15B
6039	USB Interface	5541765	Testo	22/24/27, 15C, 15B
2059	V-network	ESH3-Z6	R&S	-
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

4.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
1917	Communication Tester	CMTA84	R&S	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

Eq. No	Equipment	Type	Manufacturer	Used in
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
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
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	-
-	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	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