

FCC Part 15E Compliance Test Report

Test Report no.:	FCC15E_RM-938_07.docx	Date of Report:	24-Sep-2013
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FCC listing no.:	533467		
IC recognition no.:	661V-1		
Tested devices/ accessories:	Phone RM-938 / AC-Charger AC-60E / Headset WH-208		
FCC ID:	PYAB	IC:	661V-B
Supplement reports:	-		
Testing has been carried out in accordance with:	CFR 47, FCC rules Part 15 Subpart E, ANSI C63.4 (2003), DTS procedures KDB 789033 D01, IC standards. 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, Specialist, EMC

1. Summary for FCC Part 15E Compliance Test Report

Date of receipt	05-Sep-2013
Testing completed	13-Sep-2013
The customer's contact person	Lasse Vaattovaara
Test Plan referred to	T:\Projects\RM-937\TestPlan\RS_testplan_RM-937.xlsm
Notes	-
Document name	T:\Projects\RM-938\EMC\FCC15E_RM-938_07.docx

1.1. EUT and Accessory Information

The EUT is a mobile phone with following features:
GSM/WCDMA/LTE/WLAN/Bluetooth
The EUT is tested with maximum rated TX power.

Devices under tests

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-937	004402475404673	2100	-	1028.3507.1335.10170	17655
AC-Charger	AC-60E	409049315461030267600675677	-	-	-	17580
Headset	WH-208	2131731	-	-	-	17581

1.2. Summary of Test Results

5 GHz RLAN:

Section in CFR 47	Section in RSS-GEN or RSS-210	Name of the test	Result
15.407(a)	A9.2	Conducted peak output power	NP
15.407(b)	A9.2	Band edge compliance of RF emissions	NP
15.407(a)(6)	A9.2	Peak excursion	NP
15.407(b)	A9.2	Spurious radiated emissions	PASSED
15.407(b)(6)	A9.2	AC powerline conducted emissions	NP
-	A9.2	26dB(bandwidth)	NP
15.407(a)	A9.2	Power spectral density	NP

PASSED

The EUT complies with the essential requirements in the standard.

FAILED

The EUT does not comply with the essential requirements in the standard.

NP

The test was not performed by the TCC Nokia Laboratory.

The test results of PYARM-937 are re-used for certification of the PYAB. The table above indicates the results, which will be re-used.

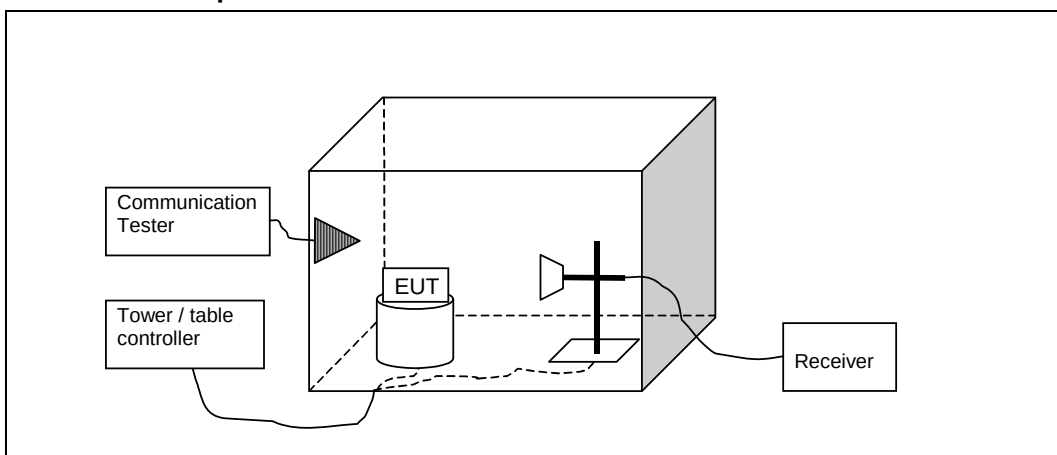
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2. Spurious radiated emissions (FCC §15.407 (b), RSS-210 A9.2)

EUT with DUT number	RM-937, DUT 17655
Accessories with DUT numbers	AC-60E, DUT 17580 ; WH-208, DUT 17581
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 65 / 101.4
Date of measurements	09-Sep-2013
Measured by	Kalle Hannila

2.1.1 Test setup



2.2. Test method and limit

The measurement is made the following way:

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:

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

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)
There are 2 sets of limit lines. Part 15.209 limits apply below 1 GHz and on restricted bands above 1GHz. The other limits are described in the table below.

Frequency range [MHz]	Limit [dBm / MHz]
5150 - 5250	1 GHz – 5.15 GHz, 5.35 GHz – 40 GHz: -27
5250 - 5350	1 GHz – 5.25 GHz, 5.35 GHz – 40 GHz: -27
5470 - 5725	1 GHz – 5.47 GHz, 5.725 GHz – 40 GHz: -27
5725 - 5825	1 GHz – 5.715 GHz, 5.835 GHz – 40 GHz: -27 5.715 GHz – 5.725 GHz, 5.825 GHz – 5.835 GHz: -17

2.3. 5 GHz RLAN test results

2.3.1 802.11a, BPSK modulation, 6 Mbps data rate.

Channel 36 / 5180MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10360	54.9	556.032	42.75	12.15	13.3	68	PASSED
15546.8	49.86	311.279	40.16	9.7	24.1	74	PASSED
20716.3	55.46	592.994	40.16	15.3	18.5	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
10360	45.37	185.609	33.22	12.15	---	---	PASSED
15546.8	37.35	73.714	27.65	9.7	16.6	54	PASSED
20716.3	42.32	130.542	27.02	15.3	11.7	54	PASSED

Channel 40 / 5200MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10400.3	54.59	536.105	42.16	12.43	13.6	68	PASSED
15601.3	50.37	329.913	40.55	9.82	23.6	74	PASSED
20799.9	55.34	584.454	40.04	15.3	18.6	74	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
37.832	25.94	19.811	34.51	-8.57	14.1	40	PASSED
37.996	25.86	19.631	34.54	-8.68	14.1	40	PASSED
43.737	26.51	21.149	38.96	-12.45	13.5	40	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
10400.3	43.56	150.661	31.13	12.43	---	---	PASSED
15601.3	37.36	73.807	27.54	9.82	16.6	54	PASSED
20799.9	42.71	136.568	27.41	15.3	11.3	54	PASSED

Channel 48 / 5240MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10480.3	54.48	529.724	41.55	12.93	13.7	68	PASSED
15728.4	49.73	306.69	39.78	9.96	24.2	74	PASSED
20960.2	55.26	579.162	40.29	14.97	18.7	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
10480.3	42.75	137.199	29.82	12.93	---	---	PASSED
15728.4	37.23	72.719	27.28	9.96	16.8	54	PASSED
20960.2	42.45	132.526	27.48	14.97	11.6	54	PASSED

Channel 52 / 5260MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10520	53.62	479.513	40.81	12.81	14.6	68	PASSED
15786.7	49.83	310.242	39.9	9.93	24.1	74	PASSED
21045.3	55	562.6	39.9	15.1	19	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
10520	40.92	111.135	28.11	12.81	---	---	PASSED
15786.7	37.17	72.21	27.24	9.93	16.8	54	PASSED
21045.3	42.28	130.017	27.18	15.1	11.7	54	PASSED

Channel 60 / 5300MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10599.5	54.43	526.805	42.16	12.28	13.8	68	PASSED
15900.6	49.54	299.951	39.78	9.76	24.4	74	PASSED
21199.7	55.34	584.521	40.04	15.31	18.6	74	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
38.146	26.11	20.2	34.89	-8.78	13.9	40	PASSED
43.617	26.08	20.14	38.45	-12.37	13.9	40	PASSED
310.404	27.13	22.725	40.9	-13.77	18.9	46	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
10599.5	41.63	120.67	29.36	12.28	---	---	PASSED
15900.6	36.83	69.446	27.07	9.76	17.2	54	PASSED
21199.7	42.15	128.13	26.85	15.31	11.8	54	PASSED

Channel 64 / 5320MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10645.1	53.27	460.787	40.93	12.34	20.7	74	PASSED
15952.5	49.15	286.583	39.53	9.62	24.8	74	PASSED
21275.9	55.71	609.958	40.17	15.55	18.3	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
10645.1	40.18	102.035	27.84	12.34	13.8	54	PASSED
15952.5	36.23	64.811	26.61	9.62	17.8	54	PASSED
21275.9	42.46	132.785	26.92	15.55	11.5	54	PASSED

Channel 100 / 5500MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10999.8	54.35	522.035	41.55	12.8	19.6	74	PASSED
16507.3	48.65	270.77	39.01	9.64	19.6	68	PASSED
21999.7	54.63	538.642	39.78	14.85	13.6	68	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
10999.8	42.24	129.345	29.44	12.8	11.8	54	PASSED
16507.3	35.95	62.762	26.31	9.64	---	---	PASSED
21999.7	42.07	126.926	27.22	14.85	---	---	PASSED

Channel 116 / 5580MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11160.4	53.89	494.709	41.55	12.34	20.1	74	PASSED
16741.7	49.55	300.227	40.03	9.52	18.7	68	PASSED
22318.8	54.63	538.89	39.78	14.85	19.3	74	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
31.86	25.42	18.653	30.11	-4.69	14.6	40	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
11160.4	40.72	108.63	28.38	12.34	13.3	54	PASSED
16741.7	36.69	68.328	27.17	9.52	---	---	PASSED
22318.8	41.89	124.265	27.04	14.85	12.1	54	PASSED

Channel 140 / 5700MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11400.9	54.61	537.589	41.8	12.82	19.4	74	PASSED
17093	48.49	265.797	39.14	9.35	19.7	68	PASSED
22808.6	55.54	598.687	40.8	14.74	18.4	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
11400.9	41.07	113.097	28.26	12.82	12.9	54	PASSED
17093	35.44	59.149	26.09	9.35	---	---	PASSED
22808.6	42.72	136.71	27.98	14.74	11.3	54	PASSED

2.3.2 802.11a, QPSK modulation, 18 Mbps data rate.

Channel 36 / 5180MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10360.2	54.07	505.184	41.92	12.15	14.2	68	PASSED
15549.2	50.13	320.996	40.42	9.72	23.8	74	PASSED
20716.9	56.23	647.814	40.93	15.3	17.8	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
10360.2	42.97	140.832	30.82	12.15	---	---	PASSED
15549.2	37.35	73.672	27.64	9.72	16.7	54	PASSED
20716.9	42.31	130.407	27.01	15.3	11.7	54	PASSED

Channel 40 / 5200MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10400.1	54.34	521.255	41.92	12.43	13.9	68	PASSED
15598.2	50.51	335.158	40.68	9.83	23.5	74	PASSED
20800.3	56.23	648.187	40.93	15.3	17.7	74	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
31.74	25.36	18.529	29.97	-4.61	14.6	40	PASSED
43.077	27.29	23.158	39.3	-12.01	12.7	40	PASSED
43.881	27.27	23.083	39.81	-12.54	12.7	40	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
10400.1	42.89	139.428	30.47	12.43	---	---	PASSED
15598.2	37.36	73.765	27.53	9.83	16.6	54	PASSED
20800.3	42.7	136.395	27.4	15.3	11.3	54	PASSED

Channel 48 / 5240MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10480.1	54.72	544.753	41.79	12.93	13.5	68	PASSED
15722.3	50.11	320.406	40.15	9.96	23.9	74	PASSED
20958	54.86	553.414	39.9	14.96	19.1	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
10480.1	43.41	148.149	30.48	12.93	---	---	PASSED
15722.3	37.2	72.435	27.24	9.96	16.8	54	PASSED
20958	42.25	129.524	27.29	14.96	11.8	54	PASSED

Channel 52 / 5260MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10520.1	54.61	537.341	41.8	12.81	13.6	68	PASSED
15781	50.6	338.883	40.67	9.93	23.4	74	PASSED
21045.3	55.26	579.162	40.16	15.1	18.7	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
10520.1	43.21	144.76	30.4	12.81	---	---	PASSED
15781	37.33	73.561	27.4	9.93	16.7	54	PASSED
21045.3	42.25	129.584	27.15	15.1	11.7	54	PASSED

Channel 60 / 5300MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10599.5	53.58	477.474	41.31	12.28	14.7	68	PASSED
15900.6	49.66	304.194	39.9	9.76	24.3	74	PASSED
21201	55.85	620.155	40.55	15.3	18.1	74	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
31.5	25.92	19.765	30.37	-4.45	14.1	40	PASSED
37.869	26.08	20.126	34.68	-8.6	13.9	40	PASSED
43.533	27.48	23.662	39.79	-12.31	12.5	40	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
10599.5	40.66	107.882	28.39	12.28	---	---	PASSED
15900.6	36.77	68.913	27.01	9.76	17.2	54	PASSED
21201	42.11	127.541	26.81	15.3	11.9	54	PASSED

Channel 64 / 5320MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10649.2	53.16	455.093	40.8	12.36	20.8	74	PASSED
15952.9	49.64	303.529	40.02	9.62	24.3	74	PASSED
21285.3	55.79	615.956	40.29	15.5	18.2	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
10649.2	40.06	100.658	27.7	12.36	13.9	54	PASSED
15952.9	36.32	65.449	26.7	9.62	17.7	54	PASSED
21285.3	42.39	131.674	26.89	15.5	11.6	54	PASSED

Channel 100 / 5500MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11009.4	53.93	497.393	41.18	12.75	20	74	PASSED
16499.9	49.11	285.529	39.52	9.59	19.1	68	PASSED
22004.5	54.99	561.953	40.15	14.84	13.2	68	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
11009.4	40.48	105.67	27.73	12.75	13.5	54	PASSED
16499.9	35.93	62.568	26.34	9.59	---	---	PASSED
22004.5	42.01	126.038	27.17	14.84	---	---	PASSED

Channel 116 / 5580MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11159.7	53.01	447.353	40.67	12.34	21	74	PASSED
16738.1	49.71	305.985	40.15	9.56	18.5	68	PASSED
22319.5	54.75	546.449	39.9	14.85	19.2	74	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
43.587	27.3	23.163	39.65	-12.35	12.7	40	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
11159.7	40.37	104.304	28.03	12.34	13.6	54	PASSED
16738.1	36.64	67.889	27.08	9.56	---	---	PASSED
22319.5	41.84	123.595	26.99	14.85	12.2	54	PASSED

Channel 140 / 5700MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11396.4	54.06	504.661	41.3	12.76	19.9	74	PASSED
17091.5	48.74	273.495	39.4	9.35	19.5	68	PASSED
22808.9	55.92	625.389	41.18	14.74	18.1	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
11396.4	40.6	107.103	27.84	12.76	13.4	54	PASSED
17091.5	35.39	58.796	26.05	9.35	---	---	PASSED
22808.9	42.68	136.082	27.94	14.74	11.3	54	PASSED

2.3.3 802.11n, BPSK modulation, 13.5 / 15.0 Mbps data rate.

Channel 36+40 / 5190MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10380.2	54.44	527.351	42.28	12.17	13.8	68	PASSED
15566.8	50.74	344.469	41.06	9.68	23.2	74	PASSED
20759	55.42	590.133	40.16	15.26	18.6	74	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
31.77	25.43	18.683	30.06	-4.63	14.6	40	PASSED
38.096	25.6	19.059	34.34	-8.74	14.4	40	PASSED
438.404	23.8	15.483	34.29	-10.49	22.2	46	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
10380.2	44.11	160.528	31.95	12.17	---	---	PASSED
15566.8	37.25	72.862	27.57	9.68	16.8	54	PASSED
20759	42.63	135.425	27.37	15.26	11.4	54	PASSED

Channel 44+48 / 5230MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10466	52.93	443.149	40.03	12.9	15.3	68	PASSED
15564.5	49.83	310.17	40.16	9.68	24.1	74	PASSED
20674.9	55.47	593.472	39.9	15.57	18.5	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
10466	40.18	102.094	27.28	12.9	---	---	PASSED
15564.5	37.26	72.937	27.59	9.68	16.7	54	PASSED
20674.9	42.35	131.129	26.78	15.57	11.6	54	PASSED

Channel 52+56 / 5270MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10540.1	54.91	556.481	42.28	12.63	13.3	68	PASSED
15806.3	50	316.337	40.02	9.98	24	74	PASSED
21076.9	55.1	568.591	40.03	15.07	18.9	74	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
31.862	25.81	19.525	30.5	-4.69	14.2	40	PASSED
37.946	26.16	20.319	34.81	-8.65	13.8	40	PASSED
42.967	26.37	20.823	38.31	-11.94	13.6	40	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
10540.1	44.57	169.317	31.94	12.63	---	---	PASSED
15806.3	37	70.811	27.02	9.98	17	54	PASSED
21076.9	42.23	129.226	27.16	15.07	11.8	54	PASSED

Channel 60+64 / 5310MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10600	53.58	477.309	41.31	12.27	14.7	68	PASSED
15939.8	49.76	307.539	40.16	9.6	24.2	74	PASSED
21236.6	55.05	565.653	39.65	15.4	18.9	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
10600	40.13	101.508	27.86	12.27	13.9	54	PASSED
15939.8	36.52	67.019	26.92	9.6	17.5	54	PASSED
21236.6	42.11	127.512	26.71	15.4	11.9	54	PASSED

Channel 100+104 / 5510MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11034.7	53.07	450.142	40.29	12.78	20.9	74	PASSED
16532.1	48.7	272.113	39.02	9.68	19.5	68	PASSED
22059.7	55.17	573.192	40.29	14.88	18.8	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
11034.7	40.4	104.689	27.62	12.78	13.6	54	PASSED
16532.1	35.79	61.553	26.11	9.68	---	---	PASSED
22059.7	42.62	135.176	27.74	14.88	11.4	54	PASSED

Channel 108+112 / 5550MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11099.8	53.23	458.617	40.68	12.56	20.8	74	PASSED
16647.1	49.5	298.504	39.9	9.6	18.7	68	PASSED
22197.4	56.07	636.136	40.93	15.14	17.9	74	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
31.62	25.16	18.103	29.69	-4.53	14.8	40	PASSED
38.186	26.11	20.2	34.91	-8.8	13.9	40	PASSED
41.077	25.92	19.758	36.61	-10.69	14.1	40	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
11099.8	40.71	108.455	28.16	12.56	13.3	54	PASSED
16647.1	36.55	67.22	26.95	9.6	---	---	PASSED
22197.4	42.69	136.317	27.55	15.14	11.3	54	PASSED

Channel 132+136 / 5670MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11358.7	52.85	438.834	40.55	12.3	21.1	74	PASSED
16992.1	48.38	262.331	39.27	9.11	19.9	68	PASSED
22680	56.21	646.472	41.06	15.15	17.8	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
11358.7	40.35	104.076	28.05	12.3	13.7	54	PASSED
16992.1	35.76	61.376	26.65	9.11	---	---	PASSED
22680	42.77	137.515	27.62	15.15	11.2	54	PASSED

2.3.4 802.11n, QPSK modulation, 27.0 / 30.0 Mbps data rate.

Channel 36+40 / 5190MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10379.8	53.47	471.249	41.31	12.16	14.8	68	PASSED
15568.3	50.49	334.657	40.8	9.69	23.5	74	PASSED
20758.4	55.42	589.929	40.16	15.26	18.6	74	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
37.933	26.19	20.401	34.83	-8.64	13.8	40	PASSED
38.156	26.13	20.247	34.91	-8.78	13.9	40	PASSED
44.047	26.48	21.084	39.13	-12.65	13.5	40	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
10379.8	42.1	127.365	29.94	12.16	---	---	PASSED
15568.3	37.26	72.971	27.57	9.69	16.7	54	PASSED
20758.4	42.65	135.644	27.39	15.26	11.4	54	PASSED

Channel 44+48 / 5230MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10461.4	53.31	463.127	40.41	12.9	14.9	68	PASSED
15589.6	50.03	317.431	40.15	9.88	23.9	74	PASSED
20677.7	55.7	609.677	40.16	15.55	18.3	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
10461.4	40.26	103.086	27.36	12.9	---	---	PASSED
15589.6	37.42	74.259	27.54	9.88	16.6	54	PASSED
20677.7	42.37	131.401	26.83	15.55	11.6	54	PASSED

Channel 52+56 / 5270MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10540.2	55.15	571.874	42.52	12.63	13.1	68	PASSED
15809.6	50.29	326.851	40.29	10	23.7	74	PASSED
21081.9	55.76	613.833	40.67	15.09	18.2	74	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
37.856	26.11	20.209	34.7	-8.59	13.9	40	PASSED
41.107	26.25	20.538	36.96	-10.71	13.7	40	PASSED
43.903	27.15	22.769	39.71	-12.56	12.9	40	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
10540.2	44.19	162.069	31.56	12.63	---	---	PASSED
15809.6	37.01	70.901	27.01	10	17	54	PASSED
21081.9	42.25	129.509	27.16	15.09	11.8	54	PASSED

Channel 60+64 / 5310MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10600	53.08	450.557	40.81	12.27	15.2	68	PASSED
15917.5	49.67	304.404	40.03	9.64	24.3	74	PASSED
21229.1	56.16	642.984	40.8	15.36	17.8	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
10600	40.15	101.789	27.88	12.27	13.8	54	PASSED
15917.5	36.66	68.069	27.02	9.64	17.3	54	PASSED
21229.1	42.1	127.306	26.74	15.36	11.9	54	PASSED

Channel 100+104 / 5510MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11007.2	53.29	461.796	40.55	12.74	20.7	74	PASSED
16532.8	48.95	280.124	39.27	9.68	19.3	68	PASSED
22046.7	55.61	603.462	40.67	14.94	18.4	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
11007.2	40.54	106.378	27.8	12.74	13.5	54	PASSED
16532.8	35.8	61.631	26.12	9.68	---	---	PASSED
22046.7	42.57	134.4	27.63	14.94	11.4	54	PASSED

Channel 108+112 / 5550MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11103.8	53.22	458.142	40.67	12.55	20.8	74	PASSED
16649.3	49.65	303.879	40.02	9.63	18.6	68	PASSED
22200.7	56.08	636.722	40.93	15.15	17.9	74	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
31.832	25.3	18.401	29.97	-4.67	14.7	40	PASSED
37.489	25.18	18.157	33.53	-8.35	14.8	40	PASSED
43.207	26.07	20.116	38.17	-12.1	13.9	40	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
11103.8	40.38	104.52	27.83	12.55	13.6	54	PASSED
16649.3	36.62	67.749	26.99	9.63	---	---	PASSED
22200.7	42.74	137.104	27.59	15.15	11.3	54	PASSED

Channel 132+136 / 5670MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11323.2	52.86	439.491	40.67	12.19	21.1	74	PASSED
16991.2	48.76	274.094	39.65	9.11	19.5	68	PASSED
22687.6	56.39	659.629	41.31	15.08	17.6	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
11323.2	40.26	103.039	28.07	12.19	13.7	54	PASSED
16991.2	35.74	61.228	26.63	9.11	---	---	PASSED
22687.6	42.55	134.122	27.47	15.08	11.5	54	PASSED

2.3.5 802.11ac, BPSK modulation, 29.3 / 32.5 Mbps data rate.

Channel 36-48 / 5210MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10420.1	55.04	564.937	42.41	12.63	13.2	68	PASSED
15628.5	50.24	325.012	40.3	9.94	23.7	74	PASSED
20843.8	55.77	614.328	40.43	15.34	18.2	74	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
31.89	24.88	17.545	29.59	-4.71	15.1	40	PASSED
38.127	26.09	20.167	34.85	-8.76	13.9	40	PASSED
43.173	26.7	21.62	38.77	-12.07	13.3	40	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
10420.1	44.92	176.218	32.29	12.63	---	---	PASSED
15628.5	37.38	73.952	27.44	9.94	16.6	54	PASSED
20843.8	42.82	138.388	27.48	15.34	11.2	54	PASSED

Channel 52-64 / 5290MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10579.8	55.24	578.296	42.88	12.36	13	68	PASSED
15865.6	50.09	319.485	40.17	9.92	23.9	74	PASSED
21161.6	54.98	560.79	39.8	15.18	19	74	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
31.62	25.06	17.906	29.59	-4.53	14.9	40	PASSED
31.8	25.36	18.542	30.01	-4.65	14.6	40	PASSED
40.887	26.25	20.54	36.82	-10.57	13.7	40	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
10579.8	44.66	170.923	32.3	12.36	---	---	PASSED
15865.6	36.92	70.146	27	9.92	17.1	54	PASSED
21161.6	42.18	128.514	27	15.18	11.8	54	PASSED

Channel 100-112 / 5530MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11053.9	53.46	470.923	40.82	12.64	20.5	74	PASSED
16582.3	49.53	299.606	39.79	9.74	18.7	68	PASSED
22119.5	54.86	553.095	40.18	14.68	19.1	74	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
31.719	25.37	18.557	29.96	-4.59	14.6	40	PASSED
38.103	25.79	19.474	34.54	-8.75	14.2	40	PASSED
38.397	25.15	18.099	34.09	-8.94	14.8	40	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
11053.9	40.46	105.427	27.82	12.64	13.5	54	PASSED
16582.3	36.01	63.161	26.27	9.74	---	---	PASSED
22119.5	42.37	131.326	27.69	14.68	11.6	54	PASSED

2.3.6 802.11ac, QPSK modulation, 87.8 / 97.5 Mbps data rate.

Channel 36-48 / 5210MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10420.1	54.32	519.757	41.69	12.63	13.9	68	PASSED
15626.7	50.89	350.147	40.95	9.94	23.1	74	PASSED
20847.7	55.76	613.479	40.44	15.33	18.2	74	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
31.74	25.76	19.411	30.37	-4.61	14.2	40	PASSED
31.8	26.27	20.592	30.92	-4.65	13.7	40	PASSED
37.743	25.52	18.878	34.04	-8.52	14.5	40	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
10420.1	43.47	149.142	30.84	12.63	---	---	PASSED
15626.7	37.39	74.012	27.45	9.94	16.6	54	PASSED
20847.7	42.84	138.708	27.52	15.33	11.2	54	PASSED

Channel 52-64 / 5290MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10580.1	56.93	701.859	44.57	12.36	11.3	68	PASSED
15867.4	49.93	313.798	40.04	9.89	24	74	PASSED
21165	55.35	585.733	40.17	15.18	18.6	74	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
31.65	26.12	20.233	30.67	-4.55	13.9	40	PASSED
37.707	25.57	18.991	34.06	-8.49	14.4	40	PASSED
43.953	25.89	19.711	38.48	-12.59	14.1	40	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
10580.1	45.85	196.2	33.49	12.36	---	---	PASSED
15867.4	36.94	70.299	27.05	9.89	17.1	54	PASSED
21165	42.2	128.84	27.02	15.18	11.8	54	PASSED

Channel 100-112 / 5530MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11052	53.46	471.194	40.81	12.65	20.5	74	PASSED
16585.8	49.51	299.02	39.79	9.72	18.7	68	PASSED
22120.4	55.5	595.594	40.82	14.68	18.5	74	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
31.65	25.99	19.937	30.54	-4.55	14	40	PASSED
31.71	26	19.946	30.59	-4.59	14	40	PASSED
412.794	26.17	20.335	37.29	-11.12	19.9	46	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
11052	40.48	105.621	27.83	12.65	13.5	54	PASSED
16585.8	36	63.067	26.28	9.72	---	---	PASSED
22120.4	42.38	131.447	27.7	14.68	11.6	54	PASSED

3. Test Equipment

3.1. 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
2059	V-network	ESH3-Z6	R&S	-
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
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
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
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
6094	Communication Tester	CMW500	R&S	22/24/27, 15C, 15B
6096	EMC Analyzer	E7405A	HP	-
6098	Signal Generator	8648C	Agilent	-
6103	Bluetooth tester	CBT	R&S	15B
6113	Signal Generator	SMF100A	R&S	22/24/27, 15C 15B
6120	Thermal Chamber	WT 20/40	Weiss	22/24/27, 15C 15B
6121	Power Splitter	HP11667B	Agilent	22/24/27, 15C 15B
6122	Power Splitter	HP11667B	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
10479	Communication Tester	CMW500	R&S	22/24/27, 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

3.2. 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
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

Eq. No	Equipment	Type	Manufacturer	Used in
2043	Band Reject Filter	WRCA824/849-0,2-6SS	Wainwright	22
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
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
2347	Communication Tester	CMU200	R&S	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
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
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
6087	Antenna	BBHA 9120D	Scharzbeck	22/24/27, 15C
6088	Antenna	VUBA 9117	Scharzbeck	22/24/27, 15C
6089	Antenna	HFH2-Z2	R&S	15C, 15B
6094	Communication Tester	CMW500	R&S	22/24/27, 15C, 15B
6103	Bluetooth tester	CBT	R&S	15B
6113	Signal Generator	SMF100A	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
6130	Notch Filter	WRCD1880-1.1.25/50-10SS	Wainwright	22/24/27
6131	Notch Filter	WRCT902.4-0.4/40-8SS	Wainwright	-
6135	Notch Filter	WRCJV2531/2539-2523/2547-60/12SS	Wainwright	22/24/27
10479	Communication Tester	CMW500	R&S	22/24/27, 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 immunity / Emission Software	EMC32	R&S	22/24/27, 15C, 15B