ANNEX E SPURIOUS EMISSIONS WITHOUT HOUSING

1 Final radiated emission measurement (30 MHz to 1 GHz)

Ambient temperature	20 °C	Relative humidity	50 %

Position of EUT: The EUT was set-up on a non-conducting table of a height of 0.8 m. The distance between EUT and antenna was 3 m.

Cable guide: No cable was connected to the EUT. For detail information of test set-up refer to the photographs in annex A of this test report.

Test record: EUT without housing, all results are shown in the following.

Supply voltage: During all measurements the EUT was supplied by a new internal battery.

The results of the standard subsequent measurement on the open area test site are indicated in the table below. The limits as well as the measured results (levels) refer to the above mentioned standard while taking account of the specified requirements for a 3 m measuring distance.

The measurement time with the peak detector is 1 second.

Result measured with the peak detector and corrected to average:

Spurious emissions outside restricted bands											
Frequency MHz	Result dBµV/m	Limit dBµV/m	Margin dB	Readings dBµV	Correction factor dB	Antenna factor dB/m	Cable loss dB	Height cm	Azimuth deg	Pol.	Position
433.653	78.4	80.8	2.4	67.4	-7.8	16.4	2.4	111.0	271.0	Vert.	2
477.205	9.8	60.8	51.0	-1.7	-7.8	16.9	2.4	209.0	1.0	Vert.	2
867.306	60.6	60.8	0.2	42.8	-7.8	22.2	3.4	111.0	46.0	Vert	2
Measurement uncertainty				+2.2 dB / -3.6 dB							

The test results were calculated with the following formula:

Result [dBµV/m] = reading [dBµV] + cable loss [dB] + antenna factor [dB/m] + correction factor [dB].

Test: Passed

TEST EQUIPMENT USED FOR THE TEST:
14 - 20

ANNEX E SPURIOUS EMISSIONS WITHOUT HOUSING

2 Final radiated emission measurement (1 GHz to 4.5 GHz)

Ambient temperature	20 °C	Relative humidity	57 %

Position of EUT: The EUT was set-up on a non-conducting table of a height of 0.8 m. The distance between EUT and antenna was 3 m.

Cable guide: No cable was connected to the EUT. For detail information of test set-up refer to the photographs in annex A of this test report.

Test record: EUT without housing, all results are shown in the following.

Supply voltage: During all measurements the EUT was supplied by a new internal battery.

Resolution bandwidth: For all measurements a resolution bandwidth of 1 MHz was used.

Result measured with the peak detector:

Frequency GHz	Corr. value dBµV/m	Limit dBµV/m	Margin dB	Readings dBµV	Antenna factor 1/m	Preamp dB	Cable loss dB	Height cm	Pol.	Restr. Band	Position
1300.959	49.3	74.0	24.7	48.1	25.0	26.5	2.7	150	Hor.	Yes	1
1734.612	57.1	74.0	16.9	53.9	26.6	26.5	3.1	150	Vert.	No	2
2168.265	40.9	74.0	33.1	36.2	27.7	26.5	3.5	150	Vert.	No	3
2601.918	47.2	74.0	26.8	41.1	28.6	26.4	3.9	150	Vert.	No	3
3035.571	42.7	74.0	31.3	34.5	30.3	26.4	4.3	150	Vert.	No	3
3469.224	44.2	74.0	29.8	35.0	31.1	26.3	4.4	150	Vert.	No	3
3902.877	42.7	74.0	31.3	31.3	32.8	26.1	4.7	150	Hor.	Yes	1
4336.530	42.1	74.0	31.9	31.0	32.0	25.9	5.0	150	Hor.	Yes	1
Measurement uncertainty					+2.2 dB / -3.6 dB						

Result measured with the peak detector and converted to average:

Frequency GHz	Corr. value dBµV/m	Limit dBµV/m	Margin dB	Readings dBµV	Corr. factor	Antenna factor 1/m	Preamp dB	Cable loss dB	Height cm	Pol.	Restr. Band	Position
1300.959	41.5	54.0	12.5	48.1	-7.8	25.0	26.5	2.7	150	Hor.	Yes	1
1734.612	49.3	60.8	11.5	53.9	-7.8	26.6	26.5	3.1	150	Vert.	No	2
2168.265	33.1	60.8	27.7	36.2	-7.8	27.7	26.5	3.5	150	Vert.	No	3
2601.918	39.4	60.8	21.4	41.1	-7.8	28.6	26.4	3.9	150	Vert.	No	3
3035.571	34.9	60.8	25.9	34.5	-7.8	30.3	26.4	4.3	150	Vert.	No	3
3469.224	36.4	60.8	24.4	35.0	-7.8	31.1	26.3	4.4	150	Vert.	No	3
3902.877	34.9	54.0	19.1	31.3	-7.8	32.8	26.1	4.7	150	Hor.	Yes	1
4336.530	34.3	54.0	19.7	31.0	-7.8	32.0	25.9	5.0	150	Hor.	Yes	1
Measurement uncertainty					+2.2 dB / -3.6 dB							

The test results were calculated with the following formula:

Result [dBµV/m] = reading [dBµV] + cable loss [dB] + antenna factor [dB/m] – preamp. [dB] + correction factor [dB]

Test: Passed

TEST EQUIPMENT USED FOR THE TEST:
29, 31 - 34, 36, 73, 143