

FCC ID: PDNRA-2

Nokia response to FCC questions:

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Qu. 1) Please describe all collocated simultaneous transmission conditions including BT. Can WLAN and BT transmit at the same time?

Response: WLAN and BT cannot transmit simultaneously. GSM 1900, GPRS 1900 or EGPRS 1900 can transmit simultaneously with either WLAN or BT.

Qu. 2) Please detail the transmission for the GSM test results in the summary table including the GSM mode (GSM, EGPRS, GPRS), and number of time slots.

Response: Below are modified Summary tables, in which are detailed the SAR values and radiated power levels for all the measured transmit modes giving the highest values (Note that EGPRS mode was not measured, because maximum averaged output power is more than 2 dB lower in EGPRS mode than in GPRS mode).

1.2.1 Head Configuration

Mode	Ch / f (MHz)	EIRP	Position	SAR limit (1g avg)	Measured SAR value (1g avg)	Result
1-slot GSM1900	512/1850.2	31.47 dBm	Left, Tilt	1.6 W/kg	0.86 W/kg	PASSED
WLAN2450	1/2412.0	23.15 dBm	Left, Cheek	1.6 W/kg	0.06 W/kg	PASSED
1-slot GSM1900 + WLAN2450	-	-	-	1.6 W/kg	0.92 W/kg *	PASSED

* This value is an overestimate of SAR since the maxima for GSM1900 and WLAN do not occur in either the same location or for the same test configuration.

1.2.2 Body Worn Configuration

Mode	Ch / f (MHz)	EIRP	Separation distance	SAR limit (1g avg)	Measured SAR value (1g avg)	Result
2-slot GPRS1900	810/1909.8	29.40 dBm	1.5 cm	1.6 W/kg	1.22 W/kg	PASSED
WLAN2450	13/2472.0	23.58 dBm	1.5 cm	1.6 W/kg	0.31 W/kg	PASSED
2-slot GPRS1900 + WLAN2450	-	-	1.5 cm	1.6 W/kg	1.53 W/kg **	PASSED

** This value is an overestimate of SAR since the maxima for GSM1900 and WLAN do not occur in the same location.

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Qu. 3) Please demonstrate that the device was working at maximum power during SAR testing. Normally this includes measurement of power. It appears that power values were simply taken from the EMC report. Please include the measured power of the WLAN transmitter during SAR testing.

Response: The device was set to maximum power level for SAR measurements.

As the device does not have an external RF connector, it was not possible to make conducted measurements of the output power. As a result, only radiated power (EIRP) levels were measured.

EIRP values were measured by Natlabs (Hyvinkaa, Finland) and Cetecom (Saarbrücken, Germany) and were not repeated during SAR measurements because the SAR lab is not able to measure radiated power. The product was not reconfigured between EMC, EIRP and SAR tests and was carefully packaged for transportation between the various test labs. The power settings are stored in digital memory and were the same for EMC, EIRP and SAR tests.

Radiated power levels for 1-slot GSM1900 are given in the EMC report. The attachment (Output power report 2_3666-02-01_04 RA-2) contains the radiated power results for WLAN and 2-slot GPRS1900.

For your convenience, radiated output powers (dBm) are given in the table below:

	Low channel	Mid channel	High channel
WLAN	23.82	23.69	23.58
1-slot GSM1900	31.47	30.29	28.82
2-slot GPRS1900	29.5	29.4	29.4