

Independent Testing Laboratory

RF EXPOSURE ANALISYS

Sample Identification:

Products:Transmitter unit Model LKN Type LA1JHFCC ID:OQA-LKNLA1JH

Module Identification

Frequency Range (MHz): 902 – 928 **Output (mW):** 85,68

<u>Analysis:</u>

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied

For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following

[(max. power of channel, including tune-up tolerance, mW)/(min. separation distance, mm)]x($\sqrt{f(GHz)}$) \leq 3 for 1-g SAR and \leq 7,5 for 10-g SAR.

Using separation distance of 15 mm with the formula above results:

(85,68 mW / 15 mm) * √0,90 GHz = 5,42 ≤ 7,5

Thus for portable use the SAR exclusion condition is fulfilled and SAR evaluation is not required for separation distance of 15 mm or more



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In addition, as marked in the below table (KDB 447498 D01 V06 Annex A), for EUT operating at 900 MHz the 1-g SAR Test Exclusion Threshold is 47 mW at 15 mm separation distance.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	SAR Test Exclusion Threshold (mW)
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

10-g Extremity SAR Test Exclusion Power Thresholds are 2,5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above, so the 1-g SAR Test Exclusion Threshold is 117,5 mW at 15 mm separation distance.

The highest measured power level of EUT is 85,68 mW.

The SAR exclusion condition is fulfilled and SAR evaluation is not required.

Thiene, September 10th, 2018

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