## CHECKLIST FOR THE PAG REVIEW

RF Exposure Evaluation Policy for sources with frequency between 6000 MHz and 8500 MH

serial	question	Answer
number		
1.	For frequencies up to 8500 MHz provide	Not Applicable
	spatial peak SAR evaluation based on	This device only supports 5925-7125MHz, less
	IEC/IEEE 62209-1528:2020, along with	than 8500MHz
	applicable product-specific procedures	
	among KDB Pubs. 648474, 616217, 941225.	
	SAR test data shall account for device	
	tune-up tolerance (that is referred to as	
	"Reported SAR" in KDB 447498).	
2.	This policy considers a device compliant for	Please see pages 73 and page133 of the AE10
	Equipment Authorization purposes, so long	WSCT-A2LA-R&E240300009A-SAR report
	as the SAR evaluation of step 1. is within the	
	same SAR limits that have been established	
	for frequencies below 6000 MHz (e.g., 1.6	
	W/kg for 1-g average SAR). In this case, the	
	SAR evaluations are taken as a conservative	
	compliance demonstration to the MPE power	
	density limits of 47 CFR 1.1310(d)(3).	
3.	Documentation is required to support	Information about IPD is found in sections 9.6,
	evaluation with MPE limits providing power	9.7, 9.8 of the AE10
	density data in accordance with the	WSCT-A2LA-R&E240300009A-SAR report
	following:	page35-36
	3.1 For the test configurations of step 1	
	having the highest SAR, evaluate Incident	Information about APD please see pages 135
	Power Density (IPD), using a suitable	-136 of the AE10
	near-field probe and a	WSCT-A2LA-R&E240300009A-SAR report
	total-field/power-density reconstruction	
	method (e.g., as per methods in [Pfeiffer,	Page31 adds the description of power density
	2019])	verification
	3.2 Report estimated IPD measurement	
	uncertainty (e.g., per methods of	Power Density Test System Verification
	IEC/IEEE 63195-1:2022) <sup>10</sup>	The system was verified to be within $\pm 0.66$ dB
	3.3 Power density test data shall account for	of the power density targets on the calibration
	device tune-up tolerance.	certificate according to the test system
	3.4 If supported by the test system, also	specification in the user's manual and
	report estimated Absorbed (epithelial) Power	calibration facility recommendation. The 0.66
	Density (APD) (e.g., as per method in	dB deviation threshold represents the expanded
	[Samaras, 2021])	uncertainty for system performance checks
		using SPEAG's mmWave verification sources.
		The same spatial resolution and measurement

		region used in the source calibration was
		applied during the system check.
		The measured power density distribution of
		verification source was also confirmed through
		visual inspection to have no noticeable
		differences, both spatially (shape) and
		numerically (level) from the distribution
		provided by the manufacturer.per November
		2017 TCBC Workshop Notes.
4.	The process of steps 1 to 4 shall be repeated	Please see pages 133-134 of the AE10
	for at least five channels, at the channel	WSCT-A2LA-R&E240300009A-SAR report
	center frequency, selected to cover uniformly	
	the largest frequency ranges used in the	
	device, between 5925 MHz and 8500 MHz,	
	and consistent with KDB Publication 248227	
	test configuration provisions.	
5.	For the purpose of SAR test exemption,	Please see pages 36-74 of the AE10
	analyses of simultaneous transmission	WSCT-A2LA-R&E240300009A-SAR report
	combinations of RF sources with frequencies	
	from 4 MHz and 8500 MHz (where the	
	lowest frequency is per KDB Publication	
	447498- D01 SAR evaluation	
	requirements <sup>11</sup> ), may be performed	
	according to the SPLSR approach (id.).	
	Accordingly, no further compliance	
	evaluation is needed for all antenna pairs for	
	which the SPLSR exemption is applicable.	

One or more RF source(s) operating above 8500 MHz, Including Simultaneous Transmissions

serial	question	Answer
number		
6.	For evaluations and test exemption analyses	Please see pages 73of the AE10
	of simultaneous-transmission combinations of	WSCT-A2LA-R&E240300009A-SAR
	different RF sources, the procedure outlined	report
	above, for a single source between 6000 and	
	8500 MHz shall be included in the calculation	
	of total exposure ratio (TER) as in KDB Pub.	
	447498-D01-Appendix C.	
7.	Any source above 8500 MHz shall be	Not Applicable
	evaluated via incident power density	This device only supports
	measurements.	5925-7125MHz, less than 8500MHz

References

[Pfeifer, 2019] S. Pfeifer *et al.*, "Total Field Reconstruction in the Near Field Using Pseudo-Vector E-Field Measurements," *IEEE Trans. EMC*, 61, (2): 476-486 (2019) [Samaras, 2021] T. Samaras *et al.*, "Compliance Assessment of the Epithelial or Absorbed Power Density Below10 GHz Using SAR Measurement Systems," *Bioelectromagnetics*, 42: 484-490 (2021)

IEC/IEEE 63195-1:2022 (2022-05), Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz) – Part 1: Measurement procedure

IEC 62479:2010, Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)