

## SAR Test exclusion documentation according to FCC § 1.1307(b)(3), RSS-102



BNetzA-CAB-13/21-08

This SAR test exclusion document is referring to the Test report identification no.: 23012944\_Rev.00\_FCC Part 95 M and 23012963\_Rev.00\_RSS-251\_Issue2.

Contains the module with the Certification numbers	
FCC ID	W34UMRRA4AB-T
IC ID	10652A-UMRRA4ABT
HVIN (Hardware Version Identification Number)	TOPGRD 171
PMN (Product Marketing Name)	TOPGRD 171
FVIN (Firmware Version Identification Number)	008
HMN (Host Marketing Name)	---

Equipment Under Test (EUT)			
EUT / Technology	Operating Frequency (GHz)	EIRP Average power. (dBm)	Antenna Gain (dBi)
TOPGRD 171 / FMCW RADAR	76.135	27.3**	16.7
	76.855	26.9**	16.7
	76.389	27.3**	16.7
	76.629	27.1**	16.7
	76.468	24.5**	16.7

\*\* measurement results are taken from TÜV Nord HF Test report no. 23012944\_Rev.00\_FCC Part 95 M and 23012963\_Rev.00\_RSS-251\_Issue2.

**SAR test exclusion according to FCC § 1.1307(b)(3)**

**SAR test exclusion for 76 – 81 GHz RADAR devices**

According to FCC § 1.1307(b)(3)(i)(C) and the Table 1 in (C), the EUT is exempted from SAR evaluation.

Operating Frequency [GHz]	d <sub>separation</sub> [cm]	Power measured. [mW]	EIRP Power limit [mW]	Exclusion [Yes/No]
76.135	20	537.03	6297.6	Yes
76.855	20	489.78	6297.6	Yes
76.389	20	537.03	6297.6	Yes
76.629	20	512.86	6297.6	Yes
76.468	20	281.84	6297.6	Yes

## SAR test exclusion according to RSS-102 Issue 5 Section 2.5.2

According to RSS-102 Issue 5 section 2.5.2, if the EUT operates at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p of the device is equal to or less than 5 W (adjusted for tune-up tolerance), then it is exempted from SAR evaluation.

### SAR test exclusion for 76 – 81 GHz RADAR devices

Operating Frequency [GHz]	d <sub>separation</sub> [cm]	Power measured. [mW]	EIRP Power limit [mW]	Exclusion [Yes/No]
76.135	>20	537.03	5000.0	Yes
76.855	>20	489.78	5000.0	Yes
76.389	>20	537.03	5000.0	Yes
76.629	>20	512.86	5000.0	Yes
76.468	>20	281.84	5000.0	Yes

**ATTESTATION:** I attest that the EUT meets the exemption from the routine evaluation limits according to FCC § 1.1307(b)(3) as well as meets the exemption from the routine evaluation limits in section 2.5 “Exemption Limits for Routine Evaluation” of RSS-105 issue 5; that the Technical Brief was prepared and the information contained therein is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed; and that the device meets the SAR and/or RF field strength limits of FCC § 1.1307(b)(3) and RSS-102 issue 5.

<b>Signature</b>	
<b>Name</b>	<b>Mr. Ralf Trepper</b>
<b>Designation</b>	<b>Laboratory-Manager</b>
<b>Date of issue</b>	<b>2024-01-19</b>