

## SAR-based exemption for FCC-ID: 2AJYB-ST1955

### Regarding the rule changes per FCC 19-126 Order

Title 47 §1.1307(b)(3)(ii) For multiple RF sources: Multiple RF sources are exempt if:

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1 \quad ERP_{20\text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

### SAR-based exemption calculation

Multiple RF sources, calculated for d = 20 cm (module declared for mobile use only by manufacturer)

	test report	frequency [MHz]	antenna	output power, conducted [mW]	max. antenna gain [dBi]	max. antenna gain [1]	output power, EIRP [mW]	output power, ERP [mW]	duty cycle [%]	average ERP [mW]	ERP20cm [mW]	fraction of ERP20cm
<b>Bluetooth</b>	FG-21/144	2480		3,98	3,5	2,24	13,93	8,49			3060	0,0028
<b>BLE</b>	FG-21/145	2440		4,27	3,5	2,24	14,95	9,11			3060	0,0030
<b>2,4 GHz Wifi</b>	FG-21/146	2437	1	87,12	3,5	2,24	304,92	185,93			3060	0,0608
<b>2,4 GHz Wifi</b>	FG-21/146	2437	2	99,31	3,5	2,24	347,59	211,94			3060	0,0693
<b>5 GHz U-NII</b>	FG-21/147	5700	1	31,65	4	2,51	126,60	77,20	83,13	64,17	3060	0,0210
<b>5 GHz U-NII</b>	FG-21/147	5700	2	32,35	4	2,51	129,40	78,90	83,13	65,59	3060	0,0214
											Sum	0,1782

The sum is less than 1.

### Declaration

I hereby declare that the device with FCC-ID 2AJYB-ST1955 was determined to be exempt from routine evaluation as per Title 47 §1.1307(b)(3)(ii)(B).

Dr.techn. Gerald Artner  
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Vienna, Austria, 11<sup>th</sup> August 2021

