

Advanced
Manufacturer: Microwave
 Engineering Srl

Name: Oscar Frau

Product: LPS UWB 001,
 LPS UWB 002

Title: Project Handler

FCC ID: UKOLPSUWB

Signature:



MPE limits (§1.1310)

Mode	Frequency MHz	Duty Cycle %	Power dBm	Antenna		EIRP ¹ dBm	ERP mW	Distance cm	PD ² mW/cm ²	PD Limit ³ mW/cm ²	Margin dB	2.1091 EIRP		PD/PD Limit
				Gain dBi								Limit mW	Margin dB	
UWB ⁴	4012,5	100	-0,2	0	-0,20	0,95	20	0,00019	1,000	37,21	1260	31,20	0,00019	
WBT ⁵	6503,0	100	-0,3	0	-0,30	0,93	20	0,00019	1,000	37,31	1260	31,30	0,00019	

¹EIRP = (Power dBm + Antenna Gain dBi) + 10 x Log (Duty Cycle % / 100)

²PD = EIRP / (4πx²D²)

³CFR 47 Part 1, §1.1310(e), table 1

⁴See Report No: 485181-5TRFWL

⁵See Report No. 485181-4TRFWL

2.1091 EIRP Limit

1.1307 (b)(3)(i)(C) exemption limit

RF Source Frequency	F	R	λ	λ/2π	R/(λ/2π)	Threshold ERP W	Threshold EIRP W	Threshold EIRP mW	EIRP mW	Margin dB
MHz	MHz	m	m	m						
	4012,5	0,20	0,075	0,0119	16,8	0,76800	1,260	1260	0,95	31,20
1500-100000	6503,0	0,20	0,046	0,0073	27,2	0,76800	1,260	1260	0,93	31,30