

MANUFACTURER: Favero Electronics S.r.l.

TEST ENGINEER: Oscar Frau

PRODUCT: F-PM2

Title: Project Handler

FCC ID: 2ATKD-FPM2

Signature:



MPE limits (§1.1310)

Mode	Frequency MHz	Duty Cycle %	Power <sup>6,7</sup> dBm	Antenna		EIRP <sup>1</sup> dBm	EIRP mW	Distance D cm	PD <sup>2</sup> mW/cm <sup>2</sup>	PD Limit <sup>3</sup> mW/cm <sup>2</sup>	PD/PD Limit	PD/PD Limit dB	2.1091 EIRP	2.1091 EIRP
				Gain <sup>8</sup> dBi	EIRP <sup>1</sup> dBm								Limit mW	Margin dB
BLE	2480	100	6,3	-5,5	0,8	1,2	20	0,00024	1,0	0,00024		36,2	5018	36,21
ANT+	2457	100	5,65	-7,38	-1,73	0,7	20	0,000	1,0	0,00013		38,7	5018	38,74

FCC Co-Location = not applicable (see Operational description)

MPE limits for Innovation, Science and Economic Development Canada, RSS-102 Issue 5

Mode	Frequency MHz	Duty Cycle %	Power <sup>6,7</sup> dBm	Antenna		EIRP <sup>1</sup> dBm	EIRP W	Distance D m	PD <sup>2</sup> W/m <sup>2</sup>	PD Limit <sup>4</sup> W/m <sup>2</sup>	Margin dB	RSS 102 §2.5.2	RSS 102	PD/PD
				Gain <sup>8</sup> dBi	EIRP <sup>1</sup> dBm							Lim. <sup>5</sup> W	§2.5.2 Marg. dB	Limit
BLE	2480	100	6,3	-5,5	0,8	0,001	0,2	0,00239	5,47	33,6		2,7	33,6	0,00044
ANT+	2457	100	5,65	-7,38	-1,7	0,001	0,2	0,00134	5,43	36,1		2,7	36,1	0,00025

FCC Co-Location = not applicable (see Operational description)

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

<sup>2</sup>PD = EIRP / (4πr<sup>2</sup>)

<sup>3</sup>CFR 47 Part 1, §1.1310(e), table 1

<sup>4</sup>RSS 102 §4, table 4

<sup>5</sup>RSS 102 §2.5.2

<sup>6</sup>Test Report n. 474474-3TRFWL, p. 28

<sup>7</sup>Test Report n. 474474-4TRFWL, p. 23 (93.5 dBuV/m = -1.73 dBm eirp)

<sup>8</sup>See "F2116 Custom antenna datasheet-v4-20230413\_150531.pdf" and measured values in Test Report n. 474474-3TRFWL, p. 28

2.1091 EIRP Limit

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

RF Source	Frequency	F	R	ERP <sub>20cm</sub>	x	Pth	Pth <sub>EIRP</sub>	EIRP	Margin
	MHz	MHz	m	mW		mW	mW	mW	dB
	1500-6000	2480	0,20	3060	1,905	3060	5018	1,2	36,21
		2457	0,20	3060	1,903	3060	5018	0,7	38,74

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

RF Source	Frequency	F	R	λ	λ/2π	R/(λ/2π)	Threshold ERP	Threshold EIRP	Threshold EIRP	EIRP	Margin
	MHz	MHz	m	m	m		W	W	mW	mW	dB
	1500-100000	2480	0,20	0,121	0,0193	10,4	0,76800	1,260	1260	1,2	30,2
		2457	0,20	0,122	0,0194	10,3	0,76800	1,260	1260	0,7	32,7