

# RF Exposure Evaluation

## FCC ID:2A4GM-IPADPRO11

### 1. Client Information

<b>Applicant</b>	:	Fine Triumph Technology Corp.,Ltd
<b>Address</b>	:	Kaihui Industrial Park, Rugao City, Jiangsu Province, China
<b>Manufacturer</b>	:	Fine Triumph Technology Corp.,Ltd
<b>Address</b>	:	Kaihui Industrial Park, Rugao City, Jiangsu Province, China

### 2. General Description of EUT

<b>EUT Name</b>	:	iPad Pro 11-inch Bluetooth keyboard	
<b>Model(s)</b>	:	iPad Pro11, iPad 10.2, iPad Air10.9, HUAWEIMate Pad 10.4, HUAWEI Mate Pad 11	
<b>Model Difference</b>	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.	
<b>Product Description</b>	:	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
		Number of Channel:	Bluetooth 5.0(BLE): 40 channels
		RF Output Power:	7.141dBm (Max)
		Antenna Gain:	0 dBi PCB Antenna
		Modulation Type:	GFSK
		Bit Rate of Transmitter:	1/2Mbps
<b>Power Rating</b>	:	Input: DC 5V2A 3.7V 280mAh Li-ion battery	
<b>Software Version</b>	:	V01	
<b>Hardware Version</b>	:	V1	
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual	
<b>Remark:</b> The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.			

**Note:** More test information about the EUT please refer the RF Test Report.

## SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance  $\leq 5$  mm are determined by:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}]}{\leq 3.0 \text{ for 1-g SAR}}$$

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}]}{\leq 7.5.0 \text{ for 10-g SAR}}$$

**2. Calculation:**

Test separation: 5mm						
BLE Mode (1Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.938	2±1	3	1.995	0.618	3.0
2.442	5.351	5±1	6	3.981	1.244	3.0
2.480	7.141	7±1	8	6.310	1.987	3.0
BLE Mode (2Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.702	2±1	3	1.995	0.618	3.0
2.442	5.377	5±1	6	3.981	1.244	3.0
2.480	7.136	7±1	8	6.310	1.987	3.0

**Conclusion:**

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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