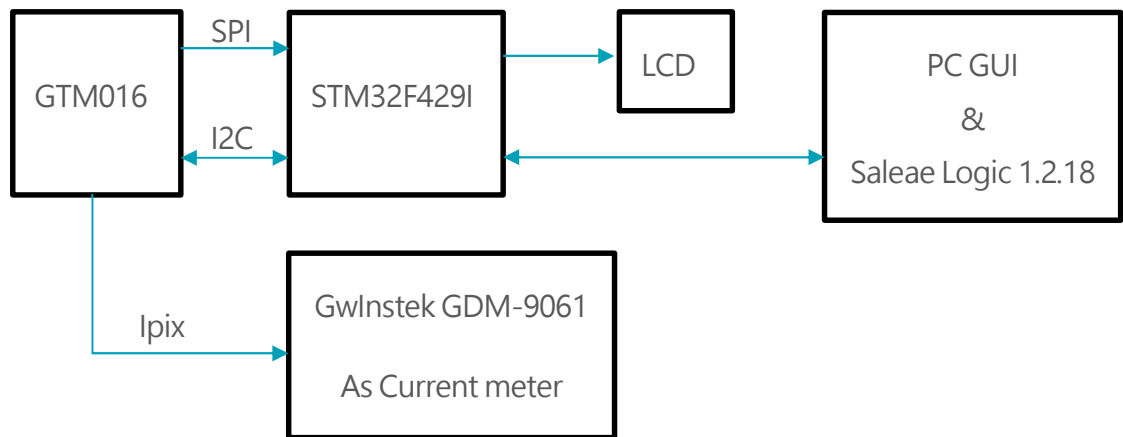


Vhs019
GTM016
V20210122

ROIC PRE-TEST

By Riviere

Test Environment



測試內容

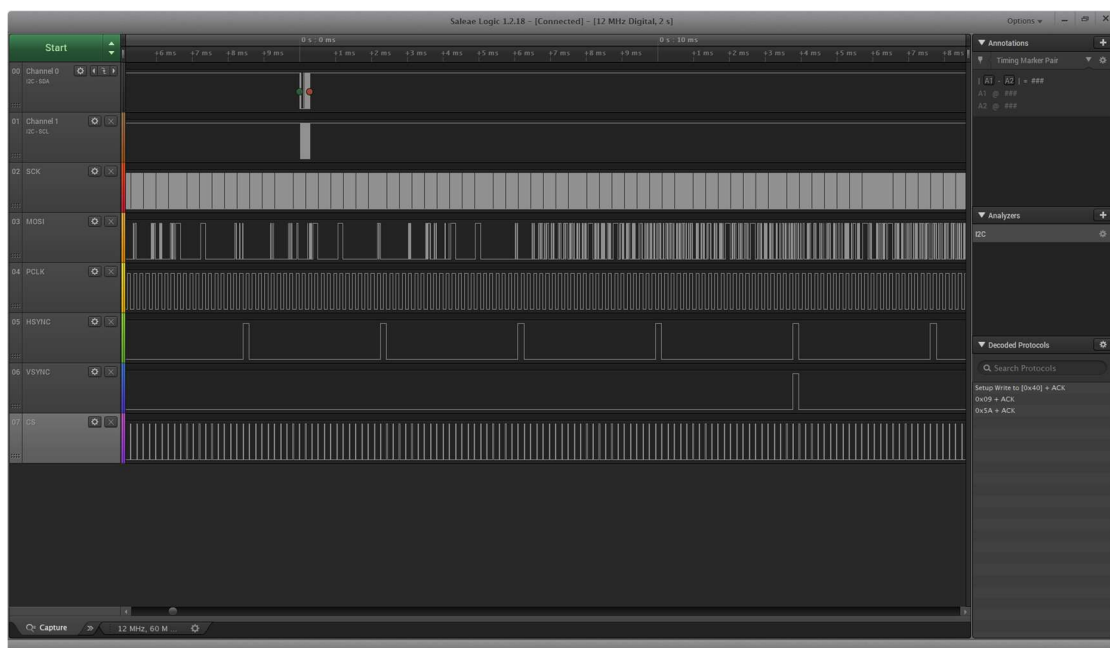
- I2C 讀寫及功能
- SPI 個腳輸出狀態是否隨 I2C 設定而變
- Ipix 電流

測試結果

1. I2C 讀寫及功能

Time [s]	Analyzer Name	Decoded Protocol Result
1.00625E-05	I2C	Setup Write to [0x40] + ACK
0.000100063	I2C	0x00 + ACK
0.000212	I2C	Setup Read to [0x41] + ACK
0.000302	I2C	0x13 + NAK
0.014574813	I2C	Setup Write to [0x40] + ACK
0.014664813	I2C	0x01 + ACK
0.014776688	I2C	Setup Read to [0x41] + ACK
0.014866688	I2C	0x00 + NAK
0.029196563	I2C	Setup Write to [0x40] + ACK

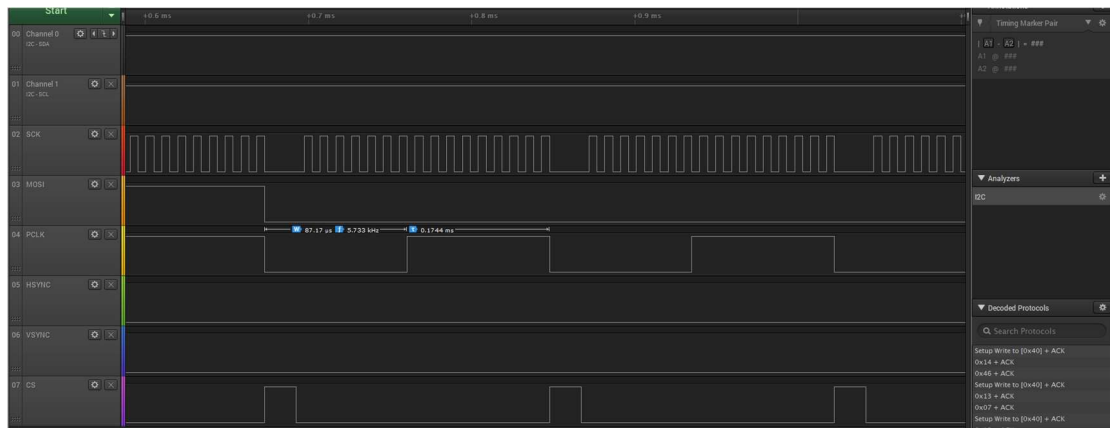
測試項目：讀 PID, VID OK



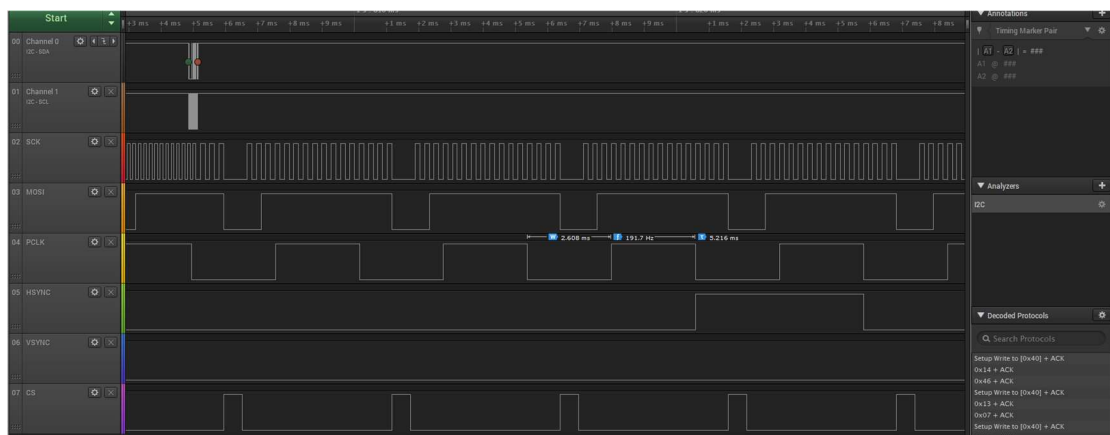
測試項目：寫 wp_code(0x5A) OK

2. SPI 個腳輸出狀態是否隨 I2C 設定而變

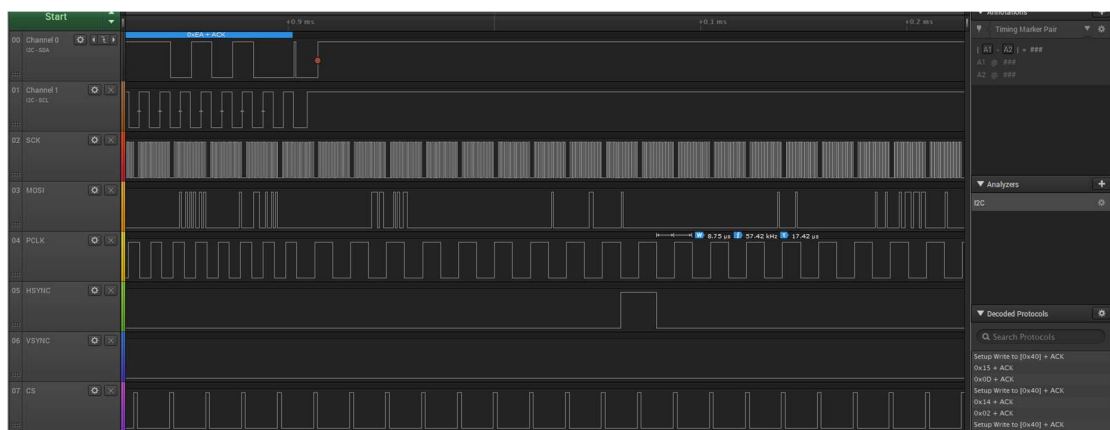
A. PCLK speed



測試項目：PCLK speed default(15KHz) 5.7KHz ?

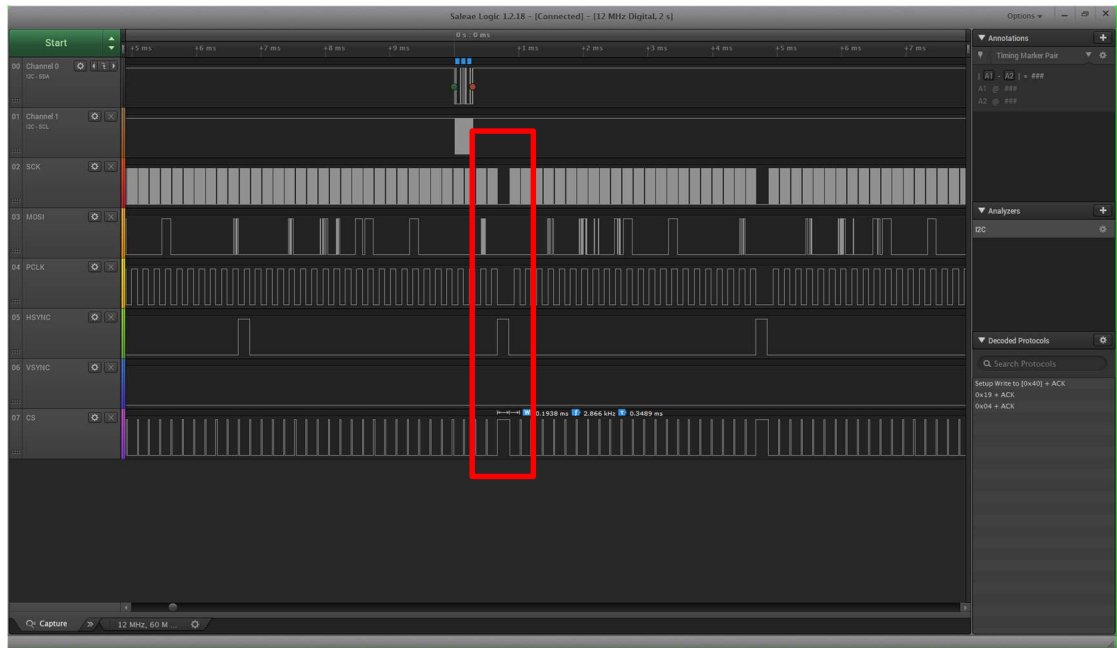


測試項目：PCLK speed (500Hz) 192Hz ?



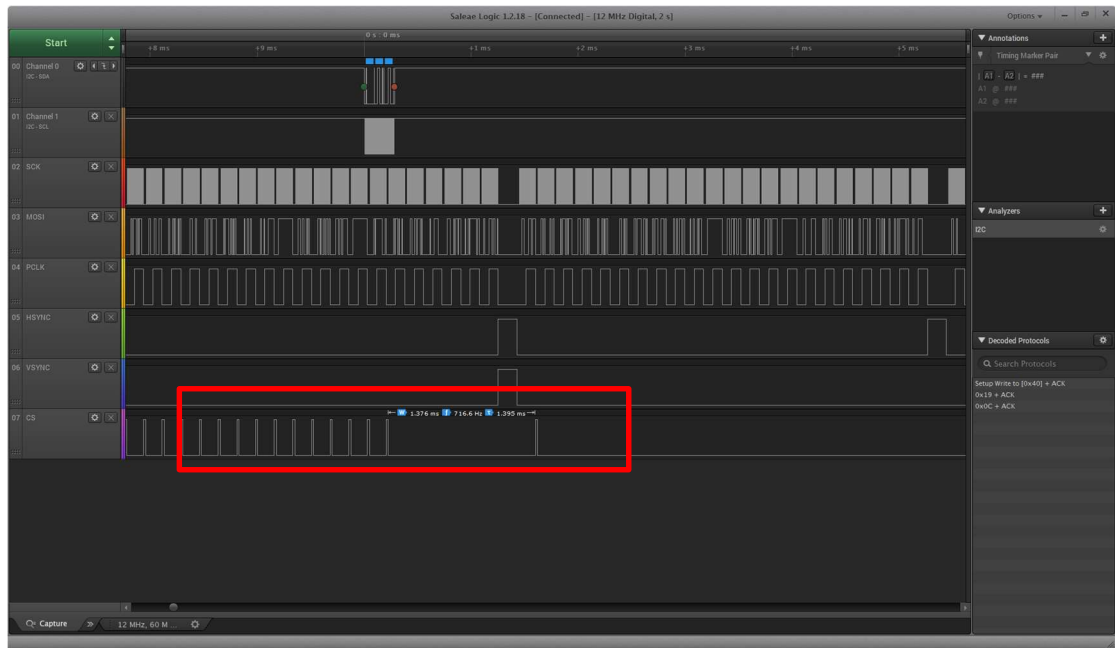
測試項目：PCLK speed recommand(150KHz) 57.5KHz ?

B. PCLK mask



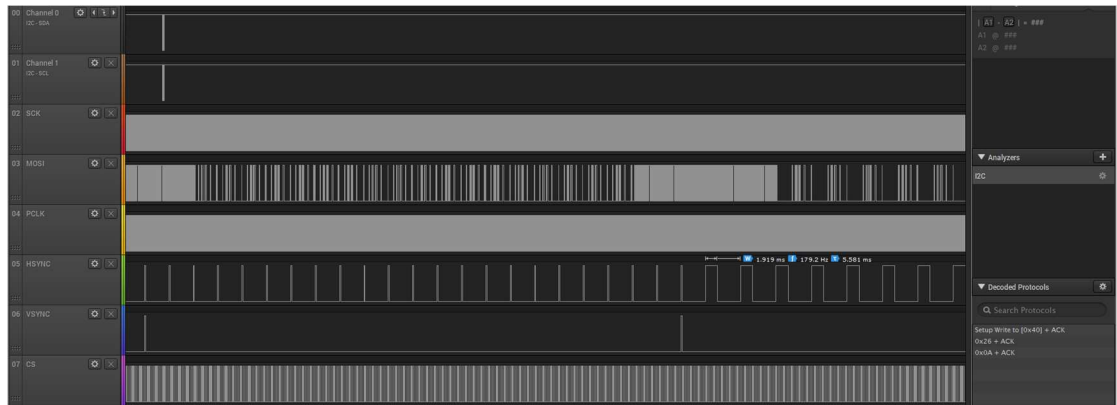
測試項目：PCLK mask OK

C. SPI CS mode

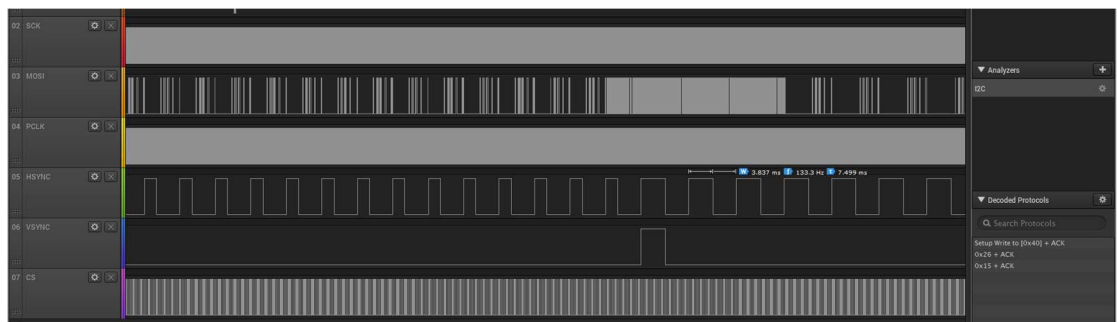


測試項目：SPI CS high when changing frame OK

D. SYNC length

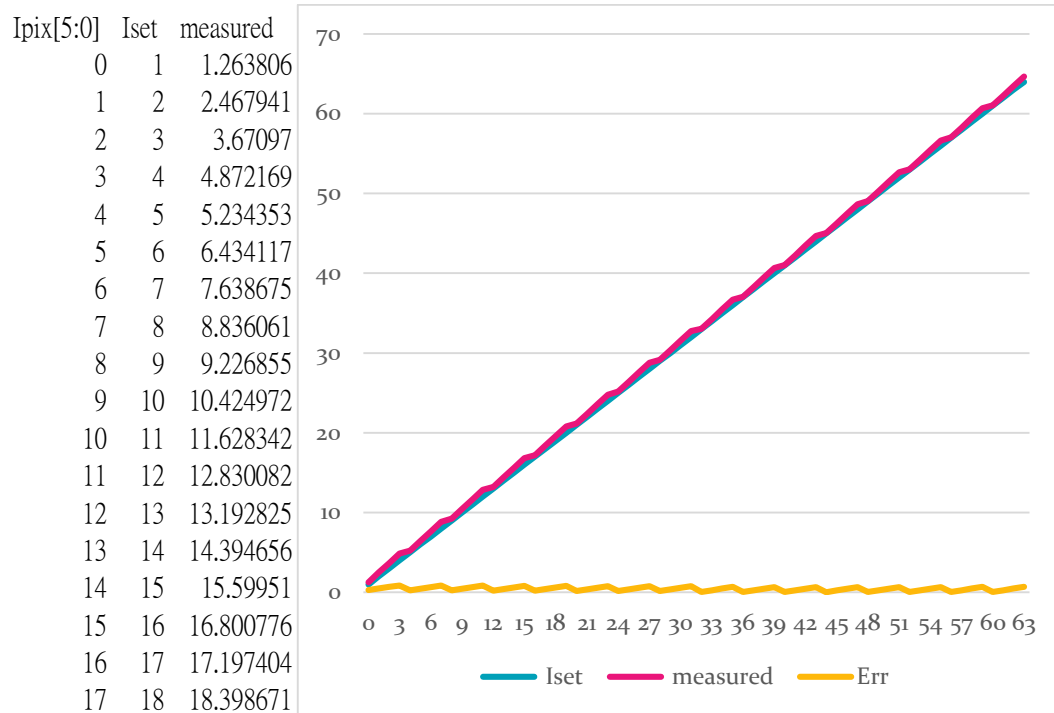


測試項目：SYNC length(10) OK (10+1 PCLK)



測試項目：SYNC length(21) OK (21+1 PCLK)

3. Ipix 電流



測試項目： Error(max) 0.872 uA

Error(Avg) 0.425 uA