SRM100A
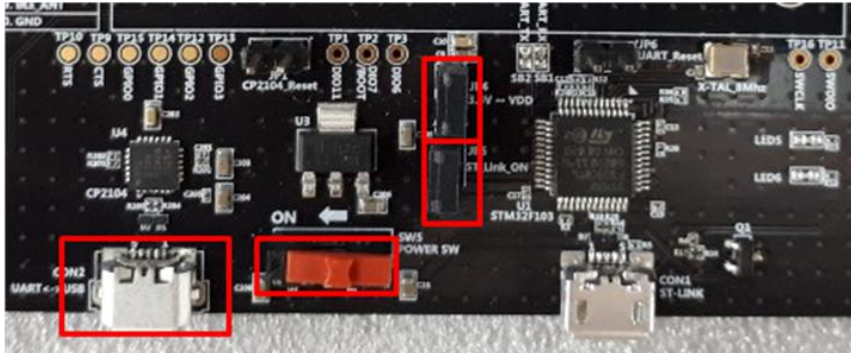## RF Testing Setup Guide

▶CONTENTS

1. 구성요소

(1) SRM100A Module
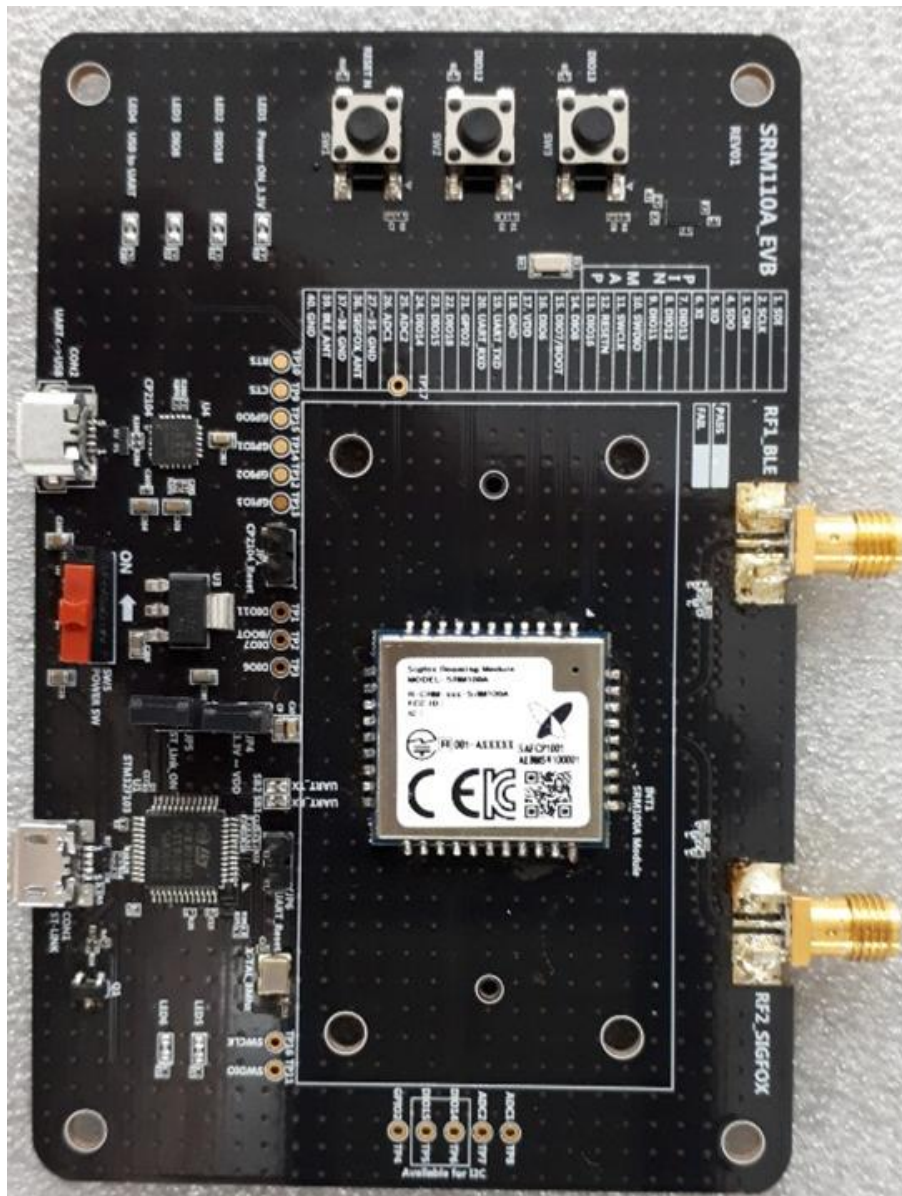
2. Sigfox Test Mode

(1) EVB 설정
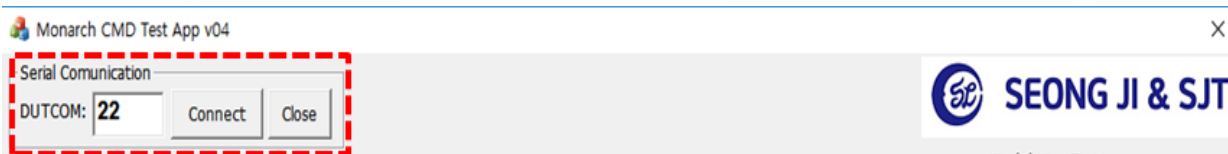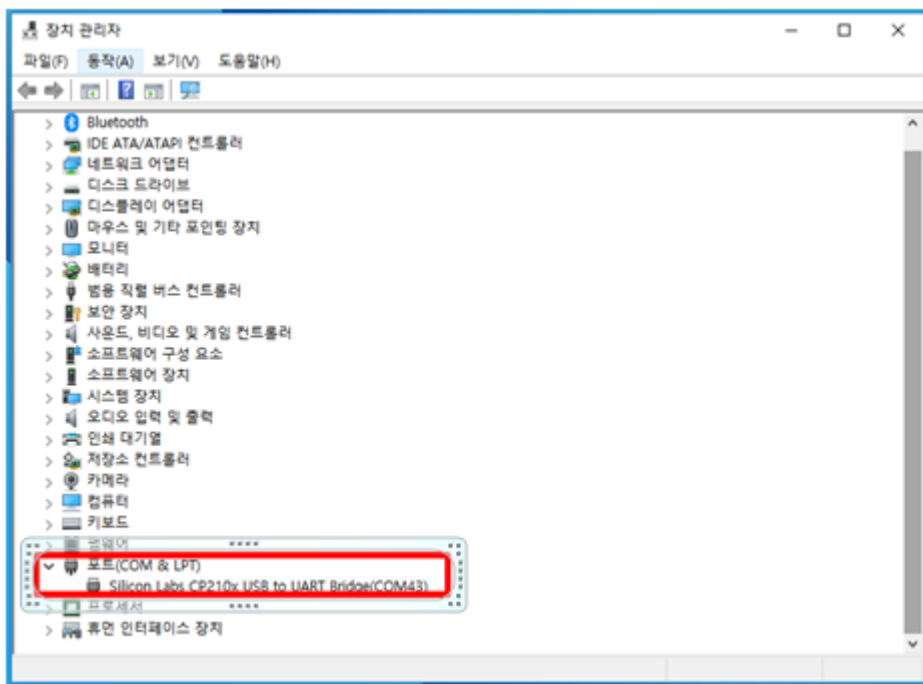

(2) Testing Tools

   Monarch_CMD_Tool_v04.exe (EXE

(3) 테스트 방법

  ① EVB 전원인가

  ② PC-DUT 연결 (Connect 버튼 클릭)

③ Test program Description
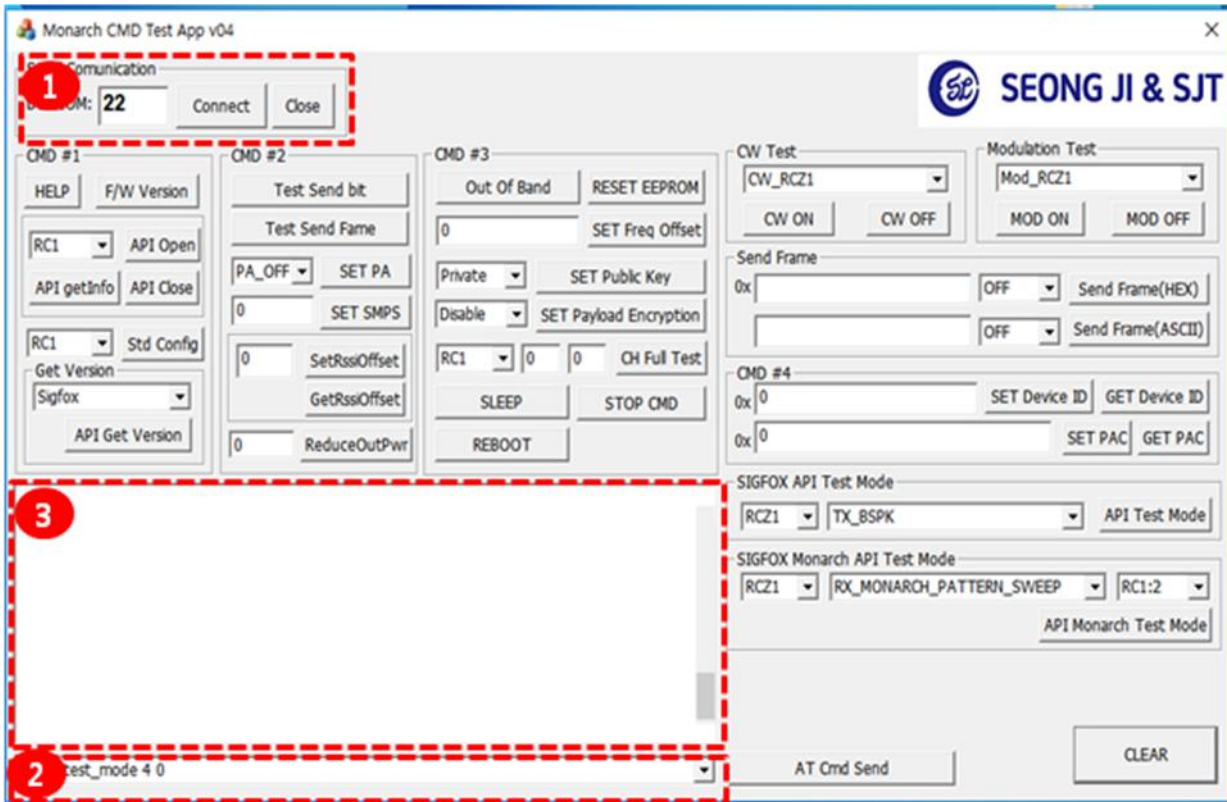
1. Connect / Close button
   - Connect : Connect test program and EVB.
   - Close : Disconnect test program from EVB.
2. Command window : Display response message for command
3. Log : Display log message

④ 테스트 커맨드

* Zone설정 명령어(단말 리부팅시 마다 실행 필요)
_set_rcz 1 : 1=RC1, 2=RC2, 3=RC3c, 4=RC4, 5=RC5

* PA ON/Off
PA ON/OFF : 전원 on시 default
switch_pa 1 : PA On (RC2/RC4)
switch_pa 0 : PA Off (RC1/RC3/RC5)

* 송신 Start

CW On 명령어 : start_continuous_transmission 주파수(Hz) 0

MOD On 명령어 : start_continuous_transmission 주파수(Hz) 1

* 송신 Stop

CW Off 명령어 : stop_continuous_transmission

* TX Hopping sweep (RC2/RC4)

Macro CH **:** SIGFOX_API_CH_full_test {RCZ} {START CHANNEL} {END CHANNEL}

예제) SIGFOX_API_CH_full_test 0 1 1 : RC1-0, RC2-1, RC3c-3, RC4-4, RC5-5

Macro Channel(No.)	Macro Freq.(Hz)	MHz	Remark	
1	902200000	902.2	Low	
2	902500000	902.5		
3	902800000	902.8		
4	903100000	903.1		
5	903400000	903.4	Mid	RC2
6	903700000	903.7		
7	904000000	904.0		
8	904300000	904.3		
9	904600000	904.6	High	
63	920800000	920.8	Low	
64	921100000	921.1		
65	921400000	921.4		
66	921700000	921.7		
67	922000000	922.0	Mid	RC4
68	922300000	922.3		
69	922600000	922.6		
70	922900000	922.9		
71	923200000	923.2	High	

<RC1_CE_ETSI EN 300 220 >

1. start_continuous_transmission 868130000 0 : cw송신

   start_continuous_transmission 868130000 1 : mod송신

2. stop_continuous_transmission : 송신 중단

<RC2_FCC_FCC Part 15-247 >

1. switch_pa 1

2. start_continuous_transmission 902200000 0 : cw송신

   start_continuous_transmission 902200000 1 : mod송신

3. stop_continuous_transmission : 송신 중단

<RC3_Telec_ ARIB STD-T108 >

1. start_continuous_transmission 923200000 0 : cw송신

   start_continuous_transmission 923200000 1 : mod송신

2. stop_continuous_transmission : 송신 중단

<RC4_FCC_ FCC Part 15-247 >

1. switch_pa 1

2. start_continuous_transmission 920800000 0 : cw송신

   start_continuous_transmission 920800000 1 : mod송신

3. stop_continuous_transmission : 송신 중단

<RC5_KC_ KCC Rules 30 >

1. start_continuous_transmission 923300000 0 : cw송신

   start_continuous_transmission 923300000 1 : mod송신

2. stop_continuous_transmission : 송신 중단

* LBT
Node_open_with_zone 3   : 3(TELEC), 5(KC)
node_set_std_config 3 0x1388 0x9B 0
node_send_frame "11223344" 2 0

* RX PER

RX수신 명령어 **:** test_rx_wait {Down-link FREQUENCY}
Down-Link Freq.= RC RX Freq. - 400Hz + (Freq. err)