



# 시험 성적서

## TEST REPORT

페이지(page) : ( 1 ) / ( 총 5 )

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |                                                                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------|--|
| 성적서 번호<br>Report No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           | ICRT-TR-E181666-0A                                                  |  |
| 신청자<br>Client                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 기관명<br>Name               | Sentech Korea Corp                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 주 소<br>Address            | 21-6, Jimokro75-gil, Paju-Si, Gyeonggi-Do, 10880, Republic of Korea |  |
| 시험대상품목<br>Sample description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           | Breathanalyzer                                                      |  |
| 모델명<br>Type designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           | AL8800BT                                                            |  |
| 정 격<br>Ratings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           | DC 3 V                                                              |  |
| 시험기간<br>Date of test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           | Nov. 26, 2018 ~ Nov. 28, 2018                                       |  |
| 시험방법/항목<br>Test Method/Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           | FCC Part 15 Subpart C §15.247                                       |  |
| 시험결과<br>Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           | Refer to 3.3 Calculated MPE Safe Distance                           |  |
| 확 인<br>Affirmation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 작성자<br>Tested by          | 기술책임자<br>Technical Manager                                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 성 명<br>Name               | 성 명<br>Name                                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Hong-Kyu, Lee (Signature) | Jun-Hui, Lee (Signature)                                            |  |
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### Revision History

| Issued Report No.  | Issued Date | Revisions     | Effect Section |
|--------------------|-------------|---------------|----------------|
| ICRT-TR-E181666-0A | 12-Dec-2018 | Initial Issue | All            |
|                    |             |               |                |
|                    |             |               |                |



## **1. Applicant & Manufacturer & Test Laboratory Information**

### **1.1 Applicant information**

|                |                                                                     |
|----------------|---------------------------------------------------------------------|
| Applicant      | Sentech Korea Corp                                                  |
| Address        | 21-6, Jimokro75-gil, Paju-Si, Gyeonggi-Do, 10880, Republic of Korea |
| Contact Person | JunNo Lee                                                           |
| Telephone No.  | +82-10-5028-0706                                                    |
| Fax No.        | +82-31-8071-4411                                                    |
| E-mail         | jnlee@sentechkorea.com                                              |

### **1.2 Manufacturer Information**

|              |                                                                     |
|--------------|---------------------------------------------------------------------|
| Manufacturer | Sentech Korea Corp                                                  |
| Address      | 21-6, Jimokro75-gil, Paju-Si, Gyeonggi-Do, 10880, Republic of Korea |

### **1.3 Test Laboratory Information**

|                                   |                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------|
| Conducted tests were performed at |                                                                                     |
| Laboratory                        | ICR Co., Ltd.                                                                       |
| Address                           | 112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea |
| Telephone No.                     | +82-2-6351-9002                                                                     |
| Fax No.                           | +82-2-6351-9007                                                                     |
| RRA No.                           | KR0165                                                                              |
| KOLAS No.                         | KT652                                                                               |



## 2. Equipment under Test(EUT) Information

### 2.1 General Information

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Product Name          | Breathanalyzer                                  |
| Brand Name            | -                                               |
| Model Name            | AL8800BT                                        |
| Additional Model Name | Elite3-BT, ACE Pluto, Promiler AC-017, ISOBER10 |
| Hardware Version      | -                                               |
| Software Version      | -                                               |
| Power Supply          | DC 3 V                                          |

### 2.2 Additional Information

|                                              |                                                |
|----------------------------------------------|------------------------------------------------|
| Equipment Class                              | DTS-Digital Transmission System                |
| Device Type                                  | Stand-alone                                    |
| Operating Frequency                          | 2 402 MHz ~ 2 480 MHz                          |
| RF Output Power                              | -2.58 dBm                                      |
| Number of Channel                            | 40                                             |
| Modulation Type                              | GFSK                                           |
| Antenna Type                                 | Integral Antenna (Chip Antenna)                |
| Antenna Gain                                 | 0.5 dBi                                        |
| Antenna Operating Mode                       | Single Antenna Equipment with only one antenna |
| List of Each Oscillator or Crystal Frequency | 32 MHz                                         |

### 2.3 Mode of operation during the test

- The EUT is continuous transmission mode during the test

### 2.4 Modifications of EUT

- None



### 3. Maximum Permissible Exposure

#### 3.1 RF Exposure calcultion

According to the FCC rule §1.1310, the limit for General Population/Uncontrolled exposure is 1 mW/cm<sup>2</sup> for the device operating 1 500 MHz ~ 100 000 MHz.

| Kind of EUT                 | Breathanalyzer                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Frequency Band    | <input type="checkbox"/> WLAN(802.11b/g/n(HT20)): 2 412 MHz ~ 2 462 MHz<br><input type="checkbox"/> WLAN(802.11n(HT40)): 2 422 MHz ~ 2 452 MHz<br><input type="checkbox"/> WLAN: 5 180 MHz ~ 5 320 MHz / 5 500 MHz ~ 5 700 MHz<br><input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz<br><input checked="" type="checkbox"/> Bluetooth: 2 402 MHz ~ 2 480 MHz |
| Max. Output Power           | -2.58 dBm                                                                                                                                                                                                                                                                                                                                                      |
| Exposure Evaluation Applied | <input type="checkbox"/> MPE<br><input type="checkbox"/> SAR<br><input checked="" type="checkbox"/> N/A                                                                                                                                                                                                                                                        |

#### 3.2 Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is  

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= (0.62/5) \times \sqrt{2.402} = 0.19$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

| Operating Mode | Frequency<br>(MHz) | Target Power<br>W / tolerance | Max tune up power |      | Separation<br>distance<br>(mm) | RF exposure |
|----------------|--------------------|-------------------------------|-------------------|------|--------------------------------|-------------|
|                |                    | (dBm)                         | (dBm)             | (mW) |                                |             |
| Bluetooth LE   | 2 402              | -2.58 ± 0.5                   | -2.08             | 0.62 | 5                              | 0.19        |