



SPOT CHECK EVALUATION

The product was received on Dec. 05, 2022 and testing was performed from Dec. 12, 2022 to Jan. 07, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

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History of this test report



1. Introduction Section

Abyssal Plain LLC will take full responsibility for reuse the test data.

Abyssal Plain LLC, hereby declares that the WLAN and Bluetooth hardware of 2AWRO-8432 are HW identical to 2AWRO-8762 (lead). In addition, 2AWRO-8432 digital circuit is identical to 2AWRO-8762 (lead). Therefore the following report of 2AWRO-8762 (lead) may be used as reference test data for 2AWRO-8432, along with the spot check verification data following the FCC KDB 484596 D01 v01.

- WLAN
- Bluetooth



2. Model Difference Information

Difference between 2AWRO-8762 (lead) and 2AWRO-8432:

2AWRO-8432 is referred 2AWRO-8762 (lead) to minor circuitry change to non-transmitter portions to add GPS receiver, modify front, and rear cameras, add WPT function, add NFC function and add an e-compass. 2AWRO-8432 device dimension is slightly extended for rear and front cameras upgrade. WiFi/BT IC, RF circuit, and antenna pattern are the same as 2AWRO-8762 (lead), only slightly shift location for extended ID. RF conducted power, and antenna gain are almost the same as 2AWRO-8762 (lead) Abyssal Plain LLC, hereby declares that 2AWRO-8762 (lead) and 2AWRO-8432 are electrical identical. Therefore the WLAN/Bluetooth report/data of 2AWRO-8762 (lead) may represent for 2AWRO-8432.



3. Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Summary for power and RSE spot check for each rule entry and technology is listed as below:

| Test Item | Mode | 2AWRO-8762 (lead) Worst Result | 2AWRO-8432 Worst Result | Difference (dB) |
|---|-----------|--------------------------------|-------------------------|-----------------|
| Average Conducted Power (dBm) | BT | 7.67 | 7.52 | 0.15 |
| | BLE | 7.7 | 7.3 | 0.4 |
| | WLAN 2.4G | 15.2 | 15.0 | 0.2 |
| | WLAN 5G | 13.8 | 13.7 | 0.1 |
| <hr/> | | | | |
| Average Radiated Spurious Emission (Band Edge) (dBuV/m) | BT | 20.41 | 20.7 | -0.29 |
| | BLE | 46.56 | 46.11 | 0.45 |
| | WLAN 2.4G | 52.97 | 50.25 | 2.72 |
| | WLAN 5G | 53.45 | 48.74 | 4.71 |
| <hr/> | | | | |
| Peak Radiated Spurious Emission (Harmonic) (dBuV/m) | BT | 44.05 | 45.8 | -1.75 |
| | BLE | 44.09 | 44.49 | -0.4 |
| | WLAN 2.4G | 54.4 | 54.74 | -0.34 |
| | WLAN 5G | 52.59 | 48.51 | 4.08 |

**Conclusion:**

Radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level and RSE spot check are shown within expected level compliant to limit line.

We are using power measurements from the original parent model reports to list on the grant.

UNII DFS detection mechanism/software of variant model is the same as original model, thus the original DFS report is being reused and no spot check is done on the variant model.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 has been followed and take full responsibility that the test data as referenced from the parent model report represents compliance for the new FCC ID.

SAR testing has been fully tested on the variant model.



4. Reference detail Section

| Rule Part | Equipment Class | Wireless Technology | Frequency Band (MHz) | Reference FCC ID (Parent) | Type Grant/Permissive Change | Reference Title | FCC ID Filing (Variant) |
|-----------|-----------------|---------------------|--|---------------------------|------------------------------|------------------------------|-------------------------|
| 15C | DSS | Bluetooth | 2400~2483.5 | 2AWRO-8762 | Original Grant | FR072932-01A | 2AWRO-8432 |
| | DTS | BLE Wi-Fi | 2400~2483.5 | 2AWRO-8762 | Original Grant | FR072932-01B FR072932-01C | 2AWRO-8432 |
| 15E | NII | Wi-Fi | 5150~5250 5250~5350 5470~5725 5725~5850 | 2AWRO-8762 | Original Grant | FR072932-01E FR072932-01F | 2AWRO-8432 |
| | | DFS | 5250~5350 5470~5725 | 2AWRO-8762 | Original Grant | FZ072932-01 | 2AWRO-8432 |



5. List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|--------------------------|-----------------|------------------------------|-------------------------|-------------------------------|------------------|-------------------------------|---------------|-----------------------|
| Hygrometer | TECPEL | DTM-303A | TP201996 | N/A | Nov. 17, 2022 | Dec. 12, 2022~Dec. 19, 2022 | Nov. 16, 2023 | Conducted (TH05-HY) |
| Power Sensor | DARE | RPR3006W | 15I00041SNO 10 (NO:248) | 10MHz~6GHz | Dec. 29, 2021 | Dec. 12, 2022~Dec. 13, 2022 | Dec. 28, 2022 | Conducted (TH05-HY) |
| Signal Analyzer | Rohde & Schwarz | FSV40 | 101905 | 10Hz - 40GHz | Aug. 03, 2022 | Dec. 12, 2022~Dec. 19, 2022 | Aug. 02, 2023 | Conducted (TH05-HY) |
| Power Meter | Anritsu | ML2495A | 1036004 | N/A | Aug. 08, 2022 | Dec. 13, 2022~Dec. 19, 2022 | Aug. 07, 2023 | Conducted (TH05-HY) |
| Power Sensor | Anritsu | MA2411B | 1027253 | 300MHz~40GHz | Aug. 08, 2022 | Dec. 13, 2022~Dec. 19, 2022 | Aug. 07, 2023 | Conducted (TH05-HY) |
| BT Base Station(Measure) | Rohde & Schwarz | CBT | 101136 | BT 3.0 | Oct. 25, 2022 | Dec. 13, 2022~Dec. 19, 2022 | Oct. 24, 2023 | Conducted (TH05-HY) |
| Preamplifier | EMEC | EM18G40G | 060801 | 18GHz~40GHz | Jun. 28, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Jun. 27, 2023 | Radiation (03CH13-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 505134/2 | 30MHz~40GHz | Feb. 21, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Feb. 20, 2023 | Radiation (03CH13-HY) |
| Hygrometer | TECPEL | DTM-303B | TP140325 | N/A | Aug. 15, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Aug. 14, 2023 | Radiation (03CH13-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 9120D-1241 | 1GHz~18GHz | Jul. 25, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Jul. 24, 2023 | Radiation (03CH13-HY) |
| Preamplifier | MITEQ | AMF-7D-0010 1800-30-10P | 1590074 | 1GHz~18GHz | May 17, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | May 16, 2023 | Radiation (03CH13-HY) |
| Preamplifier | Keysight | 83017A | MY53270147 | 1GHz~26.5GHz | Oct. 25, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Oct. 24, 2023 | Radiation (03CH13-HY) |
| Spectrum Analyzer | Keysight | N9010A | MY55370526 | 10Hz~44GHz | Mar. 18, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Mar. 17, 2023 | Radiation (03CH13-HY) |
| Filter | Wainwright | WHKX12-2700-3000-18000-60SS | SN2 | 3GHz High Pass Filter | Jul. 11, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Jul. 10, 2023 | Radiation (03CH13-HY) |
| Filter | Wainwright | WHKX8-5872.5-6750-18000-40ST | SN5 | 6.75GHz High Pass Filter | Mar. 10, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Mar. 09, 2023 | Radiation (03CH13-HY) |
| Filter | Wainwright | WLK4-1000-1530-8000-40SS | SN12 | 1.53GHz Low Pass Filter | Sep. 13, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Sep. 12, 2023 | Radiation (03CH13-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 126E | 0030/126E | 30MHz~18GHz | Feb. 09, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Feb. 08, 2023 | Radiation (03CH13-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | 804793/4 | 30MHz~18GHz | Feb. 09, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Feb. 08, 2023 | Radiation (03CH13-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY24961/4 | 30MHz~18GHz | Feb. 09, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Feb. 08, 2023 | Radiation (03CH13-HY) |
| Controller | EMEC | EM1000 | N/A | Control Turn table & Ant Mast | N/A | Jan. 04, 2023 ~ Jan. 07, 2023 | N/A | Radiation (03CH13-HY) |



| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|------------|------------------------------------|------------|---------------------------|------------------|----------------------------------|---------------|--------------------------|
| Filter | Wainwright | WHW2-7100-1 0000-18000-4 0CC | SN2 | 10GHz High Pass Filter | Nov. 14, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Nov. 13, 2023 | Radiation (03CH13-HY) |
| Antenna Mast | EMEC | AM-BS-4500-B | N/A | 1m~4m | N/A | Jan. 04, 2023 ~ Jan. 07, 2023 | N/A | Radiation (03CH13-HY) |
| Turn Table | EMEC | TT2000 | N/A | 0~360 Degree | N/A | Jan. 04, 2023 ~ Jan. 07, 2023 | N/A | Radiation (03CH13-HY) |
| 3m Semi Anechoic Chamber (NSA) | TDK | SAC-3M | 03CH13-HY | 30MHz~1GHz | Dec. 28, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Dec. 27, 2023 | Radiation (03CH13-HY) |
| 3m Semi Anechoic Chamber (Site VSWR) | TDK | SAC-3M | 03CH13-HY | 1GHz~18GHz | Dec. 30, 2022 | Jan. 04, 2023 ~ Jan. 07, 2023 | Dec. 29, 2023 | Radiation (03CH13-HY) |

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