



Spot Check Evaluation

APPLICANT : Amazon.com Services LLC
EQUIPMENT : Electronic Display Device
MODEL NAME : SA568B
FCC ID : 2A4DH-5688
STANDARD : 47 CFR Part 15 Subpart C §15.247
47 CFR Part 15 Subpart E §15.407
TEST DATE(S) : Jan. 04, 2024 ~ Jun. 19, 2024

We, Sporton International Inc. (Kunshan), 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. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|--|---------------|
| 391903-04A | Rev. 01 | Initial issue of report | Jun. 06, 2024 |
| 391903-04A | Rev. 02 | Updated details in Section 2.3 on Page 6 | Jun. 17, 2024 |
| 391903-04A | Rev. 03 | Added Automatically Discontinue Transmission test data | Jun. 20, 2024 |
| 391903-04A | Rev. 04 | Updated model name | Jul. 03, 2024 |
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| <p>Conformity Assessment Condition:</p> <ol style="list-style-type: none"> The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty" <p>Disclaimer:</p> <p>The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.</p> |
|--|



1 General Description

1.1 Applicant

Amazon.com Services LLC
410 Terry Avenue N Seattle, WA 98109-5210 United States

1.2 Product Feature of Equipment Under Test

| Product Feature | |
|-----------------|--|
| Equipment | Electronic Display Device |
| Model Name | SA568B |
| FCC ID | 2A4DH-5688 |
| SN Code | Conducted: PN43L901350201K2 Radiation: GN433X0434960076/PN43LB0134850473 DFS: GN43H203417400L1 |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

| | | | |
|--------------------|--|----------------------------|---------------------------------------|
| Test Firm | Sporton International Inc. (Kunshan) | | |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 | | |
| Test Site No. | Sporton Site No. | FCC Designation No. | FCC Test Firm Registration No. |
| | 03CH08-KS TH01-KS DFS01-KS | CN1257 | 314309 |



1.5 Test Software

| Item | Site | Manufacturer | Name | Version |
|------|-----------|--------------|--------------------------------------|---------|
| 1. | TH01-KS | Tonscend | JS1120-3 test system China_210602 | 3.3.10 |
| 2. | 03CH08-KS | AUDIX | E3 | 210616 |

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC KDB 484596 D01 Referencing Test Data v02r02
- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ 47 CFR Part 15 Subpart E §15.407
- ♦ ANSI C63.10-2013
- ♦ ANSI C63.26-2015



2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: SA568B, FCC ID: 2A4DH-5688) is electrically identical to the reference device (Model: SA569P, FCC ID: 2A4DH-5698) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS) and FCC Part 15E (equipment class: NII) referencing the original model's result and do spot-check, following the FCC KDB 484596 D01 Referencing Test Data v02r02.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: 2A4DH-5688 .

2.2 Model Difference Information

The main difference between FCC ID: 2A4DH-5698 and FCC ID: 2A4DH-5688 is as below:

- Remove WPT.

Other differences and all the details of similarity and difference can be found in the confidential documents (SA568B_Operational Description of Product Equality Declaration).

2.3 Reference detail Section:

| Rule Part | Equipment Class | Frequency Band (MHz) | Reference FCC ID (Parent) | Type Grant/ Permissive Change | Reference Title | FCC ID Filling (Variant) | Report Title/Section |
|-----------|-----------------|----------------------|---------------------------|-------------------------------|-----------------|--------------------------|-------------------------|
| 15C | DSS (BR/EDR) | 2400~2483.5 | 2A4DH-5698 | Original Grant | FR391903-01A | 2A4DH-5688 | All sections applicable |
| | DTS (BLE) | 2400~2483.5 | 2A4DH-5698 | Original Grant | FR391903-01B | 2A4DH-5688 | All sections applicable |
| | DTS (WLAN) | 2400~2483.5 | 2A4DH-5698 | Original Grant | FR391903-01C | 2A4DH-5688 | All sections applicable |
| 15E | U-NII | 5180~5240 | 2A4DH-5698 | Original Grant | FR391903-01D | 2A4DH-5688 | All sections applicable |
| | | 5260~5320 | 2A4DH-5698 | Original Grant | FR391903-01D | 2A4DH-5688 | All sections applicable |
| | | 5500~5720 | 2A4DH-5698 | Original Grant | FR391903-01D | 2A4DH-5688 | All sections applicable |
| | | 5745~5825 | 2A4DH-5698 | Original Grant | FR391903-01D | 2A4DH-5688 | All sections applicable |



2.4 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.

All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation d_{dB} from the reference data no larger than 3 dB:

$$d_{dB} = |V_{dB} - R_{dB}| \leq 3 \text{ dB} \tag{1}$$

V_{dB} , the variant spot-check level

R_{dB} , the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the particular test under consideration. In this case, if $M_{dB} = |C_{dB} - R_{dB}|$ is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation d_{dB} from the reference data satisfies the following condition:

$$d_{dB} = |V_{dB} - R_{dB}| \leq (3 + M_{dB} / 20) \text{ dB} , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \tag{2}$$

$$d_{dB} = |V_{dB} - R_{dB}| = 6 \text{ dB} , \text{ for } M_{dB} > 60 \text{ dB}$$

where “| |” is the absolute value of the measured quantity.

When using the option in eq. (2), d_{dB} increases linearly from 3 dB to 6 dB.



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

| Test Item | Mode | 2A4DH-5698 Parent Worst mode Test Result | 2A4DH-5688 Variant Check Test Result | Deviation (dB) | Limit (dB) |
|-----------------------|-------------------|--|--------------------------------------|----------------|------------|
| Conducted Power (dBm) | BT BR/EDR | 7.10 | 7.02 | -0.08 | 3 |
| | BLE 1M | -1.54 | -1.76 | -0.22 | 3 |
| | BLE 2M | -1.24 | -1.46 | -0.22 | 3 |
| | 2.4G 11b | 16.68 | 16.21 | -0.47 | 3 |
| | 2.4G 11g | 14.96 | 14.48 | -0.48 | 3 |
| | 2.4G 11n20 | 14.38 | 13.95 | -0.43 | 3 |
| | 5G 11a UNII-1 | 15.00 | 14.82 | -0.18 | 3 |
| | 5G 11a UNII-2A | 14.96 | 14.72 | -0.24 | 3 |
| | 5G 11a UNII-2C | 14.72 | 14.69 | -0.03 | 3 |
| | 5G 11a UNII-3 | 14.66 | 14.56 | -0.1 | 3 |
| | 5G 11n20 UNII-1 | 14.79 | 14.72 | -0.07 | 3 |
| | 5G 11n20 UNII-2A | 14.91 | 14.82 | -0.09 | 3 |
| | 5G 11n20 UNII-2C | 14.83 | 14.78 | -0.05 | 3 |
| | 5G 11n20 UNII-3 | 14.65 | 14.41 | -0.24 | 3 |
| | 5G 11n40 UNII-1 | 14.85 | 14.61 | -0.24 | 3 |
| | 5G 11n40 UNII-2A | 14.83 | 14.78 | -0.05 | 3 |
| | 5G 11n40 UNII-2C | 14.71 | 14.56 | -0.15 | 3 |
| | 5G 11n40 UNII-3 | 14.61 | 14.54 | -0.07 | 3 |
| | 5G 11AC20 UNII-1 | 14.61 | 14.55 | -0.06 | 3 |
| | 5G 11AC20 UNII-2A | 14.85 | 14.63 | -0.22 | 3 |
| | 5G 11AC20 UNII-2C | 14.72 | 14.61 | -0.11 | 3 |
| | 5G 11AC20 UNII-3 | 14.61 | 14.38 | -0.23 | 3 |
| | 5G 11AC40 UNII-1 | 13.63 | 13.51 | -0.12 | 3 |
| | 5G 11AC40 UNII-2A | 13.89 | 13.73 | -0.16 | 3 |
| | 5G 11AC40 UNII-2C | 13.73 | 13.54 | -0.19 | 3 |
| | 5G 11AC40 UNII-3 | 13.56 | 13.45 | -0.11 | 3 |
| | 5G 11AC80 UNII-1 | 13.38 | 13.26 | -0.12 | 3 |
| | 5G 11AC80 UNII-2A | 13.56 | 13.38 | -0.18 | 3 |
| 5G 11AC80 UNII-2C | 13.46 | 13.39 | -0.07 | 3 | |
| 5G 11AC80 UNII-3 | 13.36 | 13.29 | -0.07 | 3 | |

| Test Item | Mode | 2A4DH-5698 Parent Worst Result | 2A4DH-5688 Variant Check Result | Deviation (dB) | Limit (dB) |
|----------------------------------|--------------------|--------------------------------|---------------------------------|----------------|------------|
| Radiated Spurious Emission (dBm) | Bluetooth BR/EDR | 55.73 | 54.93 | -0.8 | 3 |
| | Bluetooth LE 2Mbps | 44.78 | 44.7 | -0.08 | 3 |
| | 2.4G 11g | 50.52 | 48.29 | -2.23 | 3 |
| | 5G 11n HT40 | 50.79 | 47.88 | -2.91 | 3 |
| | 5G 11n HT20 | 59 | 57.75 | -1.25 | 3 |



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.

We confirm that the test data referencing policy of FCC KDB 484596 D01 Referencing Test Data v02r02 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



3 Automatically Discontinue Transmission

3.1.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Result of Automatically Discontinue Transmission

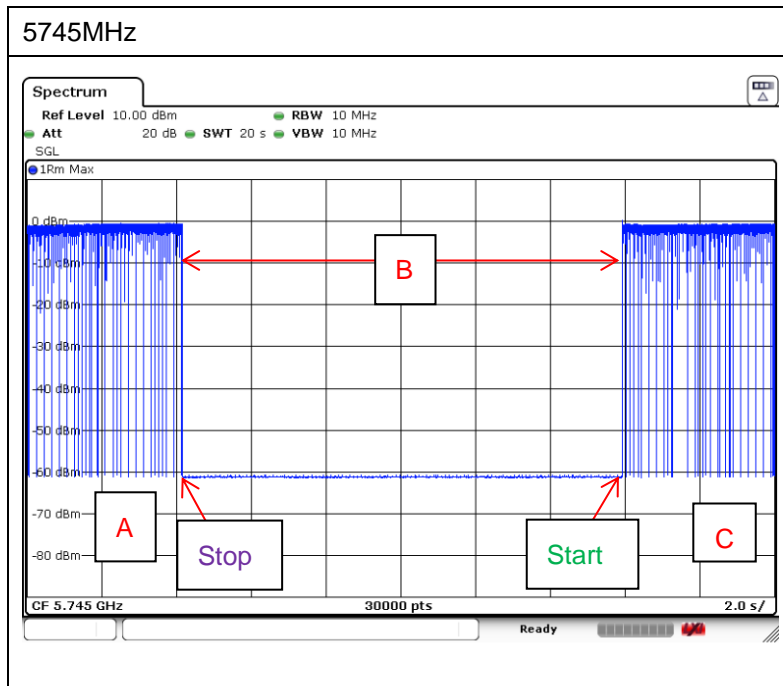
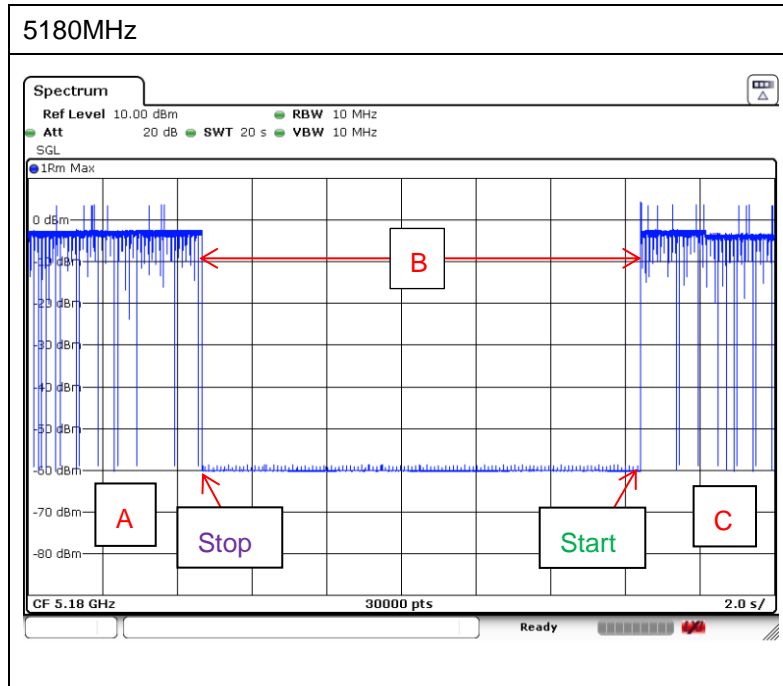
EUT is verified this characteristic during the function check of normal sample associated with an access point:

- A. Information start: make EUT supply information to the access point.
- B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

- C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



Note: The control / signaling information during the period B is precluded.



4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---------------------------|--------------|----------------|------------------|---------------------------|------------------|---------------|---------------|--------------------------|
| EMI Test Receiver | Keysight | N9038A | MY564000 23 | 3Hz~8.5GHz;M ax 30dBm | Jan. 05, 2023 | Jan. 04, 2024 | Jan. 04, 2024 | Radiation (03CH08-KS) |
| Spectrum Analyzer | R&S | FSV40 | 101932 | 10kHz~40GHz; Max 30dBm | Oct. 10, 2023 | Jan. 04, 2024 | Oct. 09, 2024 | Radiation (03CH08-KS) |
| Loop Antenna | R&S | HFH2-Z2E | 101125 | 9kHz~30MHz | Oct. 10, 2023 | Jan. 04, 2024 | Oct. 09, 2024 | Radiation (03CH08-KS) |
| Bilog Antenna | TESEQ& VGT | CBL 61110 | 59915 | 30MHz-1GHz | Aug. 12, 2023 | Jan. 04, 2024 | Aug. 11, 2024 | Radiation (03CH08-KS) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117 | 75959 | 1GHz~18GHz | Mar. 18, 2023 | Jan. 04, 2024 | Mar. 17, 2024 | Radiation (03CH08-KS) |
| high gain Amplifier | EM | EM01G18GA | 060845 | 1Ghz-18Ghz | Jan. 05, 2023 | Jan. 04, 2024 | Jan. 04, 2024 | Radiation (03CH08-KS) |
| SHF-EHF Horn | Com-power | AH-840 | 101070 | 18GHz~40GHz | Jan. 08, 2023 | Jan. 04, 2024 | Jan. 07, 2024 | Radiation (03CH08-KS) |
| Amplifier | SONOMA | 310N | 413741 | 9KHz-1GHz | Jan. 05, 2023 | Jan. 04, 2024 | Jan. 04, 2024 | Radiation (03CH08-KS) |
| Amplifier | EM | EM01G18GA | 060834 | 1Ghz-18Ghz | Oct. 10, 2023 | Jan. 04, 2024 | Oct. 09, 2024 | Radiation (03CH08-KS) |
| Amplifier | MITEQ | EM18G40GG A | 060728 | 18~40GHz | Jan. 05, 2023 | Jan. 04, 2024 | Jan. 04, 2024 | Radiation (03CH08-KS) |
| AC Power Source | Chroma | 61601 | 616010002 473 | N/A | NCR | Jan. 04, 2024 | NCR | Radiation (03CH08-KS) |
| Turn Table | EM | EM 1000-T | N/A | 0~360 degree | NCR | Jan. 04, 2024 | NCR | Radiation (03CH08-KS) |
| Antenna Mast | EM | EM 1000-A | N/A | 1 m~4 m | NCR | Jan. 04, 2024 | NCR | Radiation (03CH08-KS) |
| Spectrum Analyzer | R&S | FSV40 | 101040 | 10Hz~40GHz | Oct. 11, 2023 | Mar. 06, 2024 | Oct. 10, 2024 | Conducted (TH01-KS) |
| Pulse Power Senor | Anritsu | MA2411B | 0917070 | 300MHz~40GH z | Jan. 02, 2024 | Mar. 06, 2024 | Jan. 01, 2025 | Conducted (TH01-KS) |
| Power Meter | Anritsu | ML2495A | 1005002 | 50MHz Bandwidth | Jan. 02, 2024 | Mar. 06, 2024 | Jan. 01, 2025 | Conducted (TH01-KS) |
| Spectrum Analyzer | R&S | FSV7 | 101632 | 10Hz~7GHz | Jan. 03, 2024 | Jun. 19, 2024 | Jan. 02, 2025 | DFS (DFS01-KS) |

NCR: No Calibration Required.



5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

| Test Item | Uncertainty |
|-----------------|-------------|
| Conducted Power | ±0.46 dB |

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 6.28 dB |
|---|---------|

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

| | |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.90 dB |
|---|---------|

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

| | |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.26 dB |
|---|---------|

-THE END-