



SPOT CHECK EVALUATION

FCC ID : 2A4DH-6392
Equipment : Digital Media Receiver
Model Name : M3N6RA
Applicant : Amazon.com Services LLC
410 Terry Avenue N, Seattle, WA 98109-5210
United States
Standard : FCC Part 15 Subpart C §15.247
FCC Part 15 Subpart E §15.407

The product was received on Mar. 03, 2023 and testing was performed from Apr. 14, 2023 to Apr. 26, 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 spot check data 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.

Approved by: Louis Wu

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History of this test report

Version	Description	Issued Date
01	Initial issue of report	May 11, 2023



1. Introduction Section

Amazon.com Services LLC will take full responsibility for reuse the test data.

Amazon.com Services LLC, hereby declares that the WLAN and Bluetooth hardware of 2A4DH-6392 are HW identical to 2A4DH-6387 (lead). In addition, 2A4DH-6392 digital circuit is identical to 2A4DH-6387 (lead).

Therefore the following report of 2A4DH-6387 (lead) may be used as reference test data for 2A4DH-6392, along with the spot check verification data following the FCC KDB 484596 D01 v01.

- WLAN
- Bluetooth



2. Model Difference Information

Difference between 2A4DH-6387 (lead) and 2A4DH-6392:

1. System on Chip: CPU.
2. Storage: eMMC.
3. Wi-Fi chipset:
 - a. Referring to the section 1.3 Block diagram of the datasheet, it shows that the 2A4DH-6387 (lead) chipset has two Bluetooth subsystems, and the 2A4DH-6392 chipset has only one Bluetooth subsystems.
 - b. Referring to the section 5.1 Pin Layout of the datasheet, it shows that The 2A4DH-6387 (lead) chipset and 2A4DH-6392 chipset are pin-to-pin compatible.

Detail information sees the datasheet document.

Applicant, hereby declares that 2A4DH-6387 (lead) and 2A4DH-6392 are electrical identical.

Therefore the WLAN/Bluetooth report/data of 2A4DH-6387 (lead) may represent for 2A4DH-6392.



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	2A4DH-6387 (lead) Worst Result	2A4DH-6392 Worst Result	Difference (dB)
Average Conducted Power (dBm)	BT	6.89	6.56	0.33
	BLE	6.5	6.1	0.4
	WLAN 2.4G	19.66	19.51	0.15
	WLAN 5G	20.62	20.57	0.05
Average Radiated Spurious Emission (Band Edge) (dBuV/m)	BT	21.57	21.36	0.21
	BLE	45.47	45.4	0.07
	WLAN 2.4G	49.79	51.13	-1.34
	WLAN 5G	51.61	50.95	0.66
Peak Radiated Spurious Emission (Harmonic) (dBuV/m)	BT	43.56	44.18	-0.62
	BLE	44.8	44.01	0.79
	WLAN 2.4G	50.57	48.37	2.2
	WLAN 5G	57.29	57.26	0.03



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.



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 Filling (Variant)
15C	DSS	Bluetooth	2400~2483.5	2A4DH-6387	Original Grant	FR2N1818-01A	2A4DH-6392
	DTS	BLE Wi-Fi	2400~2483.5	2A4DH-6387	Original Grant	FR2N1818-01B FR2N1818-01C	2A4DH-6392
15E	NII	Wi-Fi	5150~5250 5250~5350 5470~5725 5725~5850	2A4DH-6387	Original Grant	FR2N1818-01E FR2N1818-01F	2A4DH-6392
		DFS	5250~5350 5470~5725	2A4DH-6387	Original Grant	FZ2N1818-01	2A4DH-6392



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	Apr. 19, 2023 ~ Apr. 20, 2023	Nov. 16, 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO12 (NO:113)	10MHz~6GHz	Dec. 13, 2022	Apr. 19, 2023 ~ Apr. 20, 2023	Dec. 12, 2023	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Aug. 08,2022	Apr. 19, 2023 ~ Apr. 20, 2023	Aug. 07,2023	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Aug. 08,2022	Apr. 19, 2023 ~ Apr. 20, 2023	Aug. 07,2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz	Aug. 03, 2022	Apr. 19, 2023 ~ Apr. 20, 2023	Aug. 02, 2023	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 07, 2022	Apr. 14, 2023 ~ Apr. 15, 2023	Nov. 06, 2023	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz~18GHz	Jul. 25, 2022	Apr. 14, 2023 ~ Apr. 15, 2023	Jul. 24, 2023	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 17, 2022	Apr. 14, 2023 ~ Apr. 15, 2023	May 16, 2023	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 23, 2023	Apr. 14, 2023 ~ Apr. 15, 2023	Mar. 22, 2024	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-60SS	SN2	3GHz High Pass Filter	Jul. 11, 2022	Apr. 14, 2023 ~ Apr. 15, 2023	Jul. 10, 2023	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000-40ST	SN5	6.75GHz High Pass Filter	Mar. 09, 2023	Apr. 14, 2023 ~ Apr. 15, 2023	Mar. 08, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 08, 2023	Apr. 14, 2023 ~ Apr. 15, 2023	Feb. 07, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 08, 2023	Apr. 14, 2023 ~ Apr. 15, 2023	Feb. 07, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 08, 2023	Apr. 14, 2023 ~ Apr. 15, 2023	Feb. 07, 2024	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 14, 2023 ~ Apr. 15, 2023	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Apr. 14, 2023 ~ Apr. 15, 2023	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 14, 2023 ~ Apr. 15, 2023	N/A	Radiation (03CH13-HY)
Software	Audix	N/A	RK-001124	N/A	N/A	Apr. 14, 2023 ~ Apr. 15, 2023	N/A	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2022	Apr. 25, 2023~ Apr. 26, 2023	Jun. 22, 2023	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055007	1GHz~18GHz	Jun. 15, 2022	Apr. 25, 2023~ Apr. 26, 2023	Jun. 14, 2023	Radiation (03CH15-HY)
Preamplifier	EM Electronics	EM01G18G	060802	1GHz~18GHz	Mar. 03, 2023	Apr. 25, 2023~ Apr. 26, 2023	Mar. 02, 2024	Radiation (03CH15-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 18, 2022	Apr. 25, 2023~ Apr. 26, 2023	Oct. 17, 2023	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Mar. 11, 2023	Apr. 25, 2023~ Apr. 26, 2023	Mar. 10, 2024	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 25, 2023~ Apr. 26, 2023	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 25, 2023~ Apr. 26, 2023	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k 5)	RK-000451	N/A	N/A	Apr. 25, 2023~ Apr. 26, 2023	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY582185/4, MY9838/4PE, 519228/2	30MHz~18G	Jun. 21, 2022	Apr. 25, 2023~ Apr. 26, 2023	Jun. 20, 2023	Radiation (03CH15-HY)

END of this report