



SPOT CHECK EVALUATION

FCC ID : 2AG7G-B3A
Equipment : SuperPod
Brand Name : Plume Design, Inc.
Model Name : B3A
Applicant : Plume Design, Inc.
325 Lytton Ave, Palo Alto , CA 94301, USA
Manufacturer : Plume Design, Inc.
325 Lytton Ave, Palo Alto , CA 94301, USA
Standard : FCC Part 15 Subpart C §15.247
FCC Part 15 Subpart E §15.407

The product was received on Mar.23, 2022 and testing was started from Apr. 13, 2022 and completed on Apr. 21, 2022. 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.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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History of this test report

Version	Description	Issued Date
01	Initial issue of report	May 05, 2022



1. Introduction Section

The FCC ID: 2AG7G-B1A (original model) and FCC ID: 2AG7G-B3A (variant model) are HW identical, the main differences exist per SKUs are related to BT Chip & DC Board . Based on their similarity, the FCC Part 15C (equipment class: DTS,) and FCC Part 15E (equipment class: NII) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 v01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: 2AG7G-B3A).



2. Difference Section

The difference between 2AG7G-B1A and 2AG7G-B3A is the performance for BT Chip & DC Board.

The details of similarity and difference can be found in the Operating Description.



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 and the verification test results Similar to the original FCC ID. Detail spot check test result can be found in the variant model report, please refer to detail section table in section 4.

Summary of the spot check:

Test Item	Mode	2AG7G-B1A Worst Result	2AG7G-B3A Worst Result	Difference (dB)
Average Conducted Power (dBm)	WLAN 2.4G	24.40	24.22	0.18
	WLAN 5G B1	28.15	27.68	0.47
	WLAN 5G B4	29.74	27.82	1.92
Radiated Spurious Emission (Band Edge) (dBuV/m)	WLAN 2.4G	52.91	52.4	0.51
	WLAN 5G B1	52.88	50.24	2.64
	WLAN 5G B4	66.56	66.75	-0.19
Radiated Spurious Emission (Harmonic) (dBuV/m)	WLAN 2.4G	41.99	41.3	0.69
	WLAN 5G B1	43.43	42.17	1.26
	WLAN 5G B4	52.91	51.06	1.85



4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Original FCC ID	Original Report	Variant Model FCC ID
15C	DTS	Wii-Fi	2400~2483.5	2AG7G-B1A	Part 15C (FR811726B)	2AG7G-B3A
15E	NII	Wi-Fi	5150~5250 5470~5725	2AG7G-B1A	Part 15E (FR811726E)	2AG7G-B3A

Note 1: For DFS is Full test

5. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16. 2021	Apr. 14. 2022~ Apr. 20. 2022	Nov. 15. 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO1 2 (NO:113)	10MHz~6GHz	Dec. 16, 2021	Apr. 14. 2022~ Apr. 20. 2022	Dec. 15, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Apr. 14. 2022~ Apr. 20. 2022	Aug. 29, 2022	Conducted (TH05-HY)
Switch Control Mainframe	E-IUSTRUMENT	ETF-1405-0	EC1900067 (BOX7)	N/A	Aug. 12, 2021	Apr. 14. 2022~ Apr. 20. 2022	Aug. 11, 2022	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~50 MHz	Jan. 07, 2022	Apr. 13. 2022~ Apr. 21. 2022	Jan. 06, 2023	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Apr. 13. 2022~ Apr. 21. 2022	Oct. 08, 2022	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 25, 2021	Apr. 13. 2022~ Apr. 21. 2022	Oct. 24, 2022	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 30, 2021	Apr. 13. 2022~ Apr. 21. 2022	Nov. 29, 2022	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 10, 2021	Apr. 13. 2022~ Apr. 21. 2022	Dec. 09, 2022	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2021	Apr. 13. 2022~ Apr. 21. 2022	Nov. 09, 2022	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180005 5007	1GHz~18GHz	Jun. 16, 2021	Apr. 13. 2022~ Apr. 21. 2022	Jun. 15, 2022	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Apr. 13. 2022~ Apr. 21. 2022	Jun. 21, 2022	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 15, 2021	Apr. 13. 2022~ Apr. 21. 2022	Oct. 14, 2022	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 15, 2021	Apr. 13. 2022~ Apr. 21. 2022	Jul. 14, 2022	Radiation (03CH11-HY)



Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 13. 2022~ Apr. 21. 2022	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 13. 2022~ Apr. 21. 2022	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 13. 2022~ Apr. 21. 2022	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Apr. 13. 2022~ Apr. 21. 2022	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 10, 2022	Apr. 13. 2022~ Apr. 21. 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 10, 2022	Apr. 13. 2022~ Apr. 21. 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30MHz-18GHz	Mar. 10, 2022	Apr. 13. 2022~ Apr. 21. 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	811852/4	30MHz-18GHz	Mar. 10, 2022	Apr. 13. 2022~ Apr. 21. 2022	Mar. 09, 2023	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN11	1.53G Low Pass	Sep. 13, 2021	Apr. 13. 2022~ Apr. 21. 2022	Sep. 12, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 OSS	SN3	3GHz High Pass Filter	Sep. 13, 2021	Apr. 13. 2022~ Apr. 21. 2022	Sep. 12, 2022	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 26, 2021	Apr. 13. 2022~ Apr. 21. 2022	Nov. 25, 2022	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Sep. 30, 2021	Apr. 13. 2022~ Apr. 21. 2022	Sep. 29, 2022	Radiation (03CH11-HY)