

Report No.: SZEM191202106004

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RF Exposure Evaluation Report

Application No.: SZEM1912021060CR

Applicant: SZ DJI TECHNOLOGY CO., LTD.

Address of Applicant:

14th floor, West Wing, Skyworth Semiconductor Design Building NO.18

Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, China

Manufacturer: SZ DJI TECHNOLOGY CO., LTD.

Address of Manufacturer: 14th floor, West Wing, Skyworth Semiconductor Design Building NO.18

Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, China

Equipment Under Test (EUT):

Product Name: MAVIC AIR 2

Model No.: MA2UE1N, MA2UE3W.

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

DJI

 FCC ID:
 SS3-MA2UE1N1911

 IC:
 11805A-MA2UE1N1911

 Standards:
 47 CFR PART 1.1310

47 CFR PART 2.1091

RSS102 Issue 5 March 2015

Date of Receipt: 2019-12-10

Date of Test: 2019-12-15 to 2019-12-30

Date of Issue: 2020-01-09

Test Result: PASS*

Keny Xu EMC Laboratory Manager

Keny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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2 Version

Revision Record						
Version Chapter Date Modifier Remark						
01		2020-01-09		Original		

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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4 General Information

4.1 General Description of EUT

Power Supply:	DC11.55V by lithium-ion Polymer battery(3500mAh)
Cable:	USB type A to C cable: 0.5m shielded cable without ferrite core
	Power Adapter cable: 1m unshielded cable without ferrite core
For 2.4G:	
Operation Frequency:	1.4MHz BW: 2407.5MHz ~ 2465.5MHz
operation requestoy.	1.4MHz BW CA: 2409.12MHz ~ 2467.12MHz
	3MHz BW: 2417.5MHz to 2456.5MHz
	10MHz BW: 2405.5MHz to 2476.5MHz
	20MHz BW: 2410.5MHz to 2472.5MHz
Modulation Type:	1.4MHz BW: OFDM
Wodalation Type.	1.4MHz BW CA: OFDM
	3MHz BW: OFDM
	10MHz BW: OFDM
	20MHz BW: OFDM
Number of Channels:	1.4MHz BW: 30
Number of Chamiles.	1.4MHz BW CA: 30
	3MHz BW: 14
	10MHz BW: 72
	20MHz BW:63
Channel Spacing:	1.4MHz BW: 2MHz
Charmer opasing.	1.4MHz BW CA: 2MHz
	3MHz BW: 3MHz
	10MHz BW: 1MHz
	20MHz BW: 1MHz
Antenna Type:	PCB antenna
Antenna Gain:	1.5dBi
For 5G:	
Operation Frequency:	1.4MHz BW: 5728.5MHz ~ 5844.5MHz;
Operation r requerity.	1.4MHz BW CA: 5730.12MHz ~ 5846.12MHz;
	3MHz BW: 5730.5MHz ~ 5844.5MHz;
	10MHz BW: 5732.5MHz ~ 5844.5MHz;
	20MHz BW: 5735.5MHz ~ 5839.5MHz
Number of Channels:	1.4MHz BW: 59;
Number of Chambers.	1.4MHz BW CA: 59;
	3MHz BW: 39;
	10MHz BW: 113;



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	20MHz BW: 105
Modulation Type:	OFDM
Channel Spacing:	1.4MHz BW: 2MHz;
Gridinion Spaoning.	1.4MHz BW CA: 2MHz;
	3MHz BW: 3MHz;
	10MHz BW: 1MHz;
	20MHz BW: 1MHz
Antenna Gain:	2dBi
Antenna Type:	PCB antenna



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4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)		
(A) Limits for Occupational/Controlled Exposures						
0.3–3.0	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure			
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30		

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*Pi*R2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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According to RSS-102 Issue 5, section 2.5.2 Exemption.

RF exposure evaluation is required if the separation distance between the user and the device's radiating element is greater than 20 cm, except when the device operates as follows:

below 20 MHz6 and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 22.48/f0.5W (adjusted for tune-up tolerance), where f is in MHz;

at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x 10-2 f0.6834 W (adjusted for tune-up tolerance), where f is in MHz;

at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.

5.1.3 EUT RF Exposure Evaluation



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FCC Part: For 2.4G band: Antenna Gain: 1.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.41 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
	(MHz)	Average Output	to Antenna	at R = 20 cm	(mW/cm ²)	
		Power (dBm)	(mW)	(mW/cm ²)		
Middle	2441.5	19.77	94.84	0.0267	1.0	PASS

Note: Refer to report No. SZEM191202106002 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 5G band:

Antenna Gain: 2dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.58 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
	(MHz)	Average Output	to Antenna	at R = 20 cm	(mW/cm ²)	
		Power (dBm)	(mW)	(mW/cm²)		
Middle	5787.5	23.43	94.84	0.0695	1.0	PASS

Note: Refer to report No. SZEM191202106003 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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IC Part:

For 2.4G band:

Antenna Gain: 1.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.41 in linear scale.

For 1.4MHz BW

Test Channel	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P. (mW)	Limit (mW)	Result
2407.5	16.22	59.16	2680.61	Pass
2441.5	16.59	64.42	2706.42	Pass
2465.5	16.57	64.12	2724.58	Pass

For 1.4MHz BW CA

Test Channel	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P. (mW)	Limit (mW)	Result
2409.12	15.22	46.99	2681.84	Pass
2443.12	16.27	59.84	2707.65	Pass
2467.12	15.98	55.98	2725.80	Pass

For 3MHz BW

Test Channel	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P. (mW)	Limit (mW)	Result
2417.5	16.85	68.39	2688.21	Pass
2441.5	17.01	70.96	2706.42	Pass
2456.5	16.95	69.98	2717.78	Pass

For 10MHz BW

Test Channel	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P. (mW)	Limit (mW)	Result
2417.5	19.08	114.29	2688.21	Pass
2441.5	19.77	133.97	2706.42	Pass
2455.5	19.65	130.32	2717.02	Pass

For 20MHz BW

Test Channel	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P. (mW)	Limit (mW)	Result
2434.5	19.53	126.77	2701.12	Pass
2441.5	19.63	129.72	2706.42	Pass
2443.5	18.85	108.39	2707.94	Pass

Note: Refer to report No. SZEM191202106002 for EUT test EIRP value.

For 10MHz BW and 20MHz BW, RF exposure was evaluated for the maximum power level and the correspondent channel.



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Report No.: SZEM191202106004

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For 5G:

Antenna Gain: 2dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.58 in linear scale.

For 1.4MHz BW

Test Channel	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P. (mW)	Limit (mW)	Result
5728.5	14.83	48.19	4847.48	Pass
5784.5	13.87	38.64	4879.82	Pass
5844.5	13.13	32.58	4914.35	Pass

For 1.4MHz BW CA

Test Channel	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P. (mW)	Limit (mW)	Result
5730.12	14.67	46.45	4848.42	Pass
5788.12	13.96	39.45	4881.91	Pass
5846.12	14.05	40.27	4915.28	Pass

For 3MHz BW

Test Channel	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P. (mW)	Limit (mW)	Result
5730.5	14.85	48.42	4848.64	Pass
5787.5	13.76	37.67	4881.55	Pass
5844.5	13.00	31.62	4914.35	Pass

For 10MHz BW

Test	Conduct power (including	E.I.R.P.	Limit	Result
Channel	Tune-up tolerance) (dBm)	(mW)	(mW)	1100011
5732.5	23.05	319.89	4849.80	Pass
5787.5	23.43	349.14	4881.55	Pass
5844.5	22.73	297.17	4914.35	Pass

For 20MHz BW

Test Channel	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P. (mW)	Limit (mW)	Result
5735.5	23.27	336.51	4851.53	Pass
5787.5	22.32	270.40	4881.55	Pass
5839.5	20.65	184.08	4911.48	Pass

Note: Refer to report No. SZEM191202106003 for EUT test EIRP value.

- End of the Report -



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