

JianYan Testing Group Shenzhen Co., Ltd.

nen Co., Ltd.

Report No: JYTSZB-R12-2102122

FCC REPORT

Applicant:	Autel Robotics Co., Ltd.
Address of Applicant:	9th Floor, Bldg. B1, Zhiyuan, 1001 Xueyuan Rd., Xili, Nanshan, Shenzhen 518055, China
Equipment Under Test (E	EUT)
Product Name:	DragonFish Base Station
Model No.:	DFMS-2
Trade mark:	AUTEL ROBOTICS
FCC ID:	2AGNTDFMS2TBG
Applicable standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407
Date of sample receipt:	13 Oct., 2021
Date of Test:	14 Oct., to 04 Nov., 2021
Date of report issued:	04 Nov., 2021
Test Result:	PASS*

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

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Version 2

Version No.	Date	Description
00	04 Nov., 2021	Original

Tested by: Mike.OU Test Engineer

Date: 04 Nov., 2021

Reviewed by: Winner Thang Project Engineer

Date: 04 Nov., 2021



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4 Test Summary

Section in CFR 47	Test Data	Test Result
15.203 & 15.407 (a)	See Section 6.1	Pass
15.207	See Section 6.2	Pass
ANSI C63.10-2013	Appendix A – 5.2G Appendix A – 5.8G	Pass
15.407 (a) (1) (iv) & (a) (3)	Appendix A – 5.2G Appendix A – 5.8G	Pass
15.407 (a) (12) & (e)	Appendix A – 5.2G Appendix A – 5.8G	Pass
15.407 (a) (1) (iv) & (a) (3)	Appendix A – 5.2G Appendix A – 5.8G	Pass
15.407(b)	See Section 6.6	Pass
15.407 (b) & 15.205 & 15.209	See Section 6.7	Pass
15.407(g)	Appendix A – 5.2G Appendix A – 5.8G	Pass
	15.203 & 15.407 (a) 15.207 ANSI C63.10-2013 15.407 (a) (1) (iv) & (a) (3) 15.407 (a) (12) & (e) 15.407 (a) (1) (iv) & (a) (3) 15.407 (b) & 15.205 & 15.209	15.203 & 15.407 (a)See Section 6.1 15.207 See Section 6.2ANSI C63.10-2013Appendix A - 5.2G Appendix A - 5.8G 15.407 (a) (1) (iv) & (a) (3)Appendix A - 5.2G Appendix A - 5.8G 15.407 (a) (12) & (e)Appendix A - 5.2G Appendix A - 5.8G 15.407 (a) (1) (iv) & (a) (3)Appendix A - 5.2G Appendix A - 5.8G 15.407 (a) (1) (iv) & (a) (3)Appendix A - 5.2G Appendix A - 5.8G 15.407 (b) & $15.205 &$ 15.209 See Section 6.6 15.407 (p)See Section 6.7 15.407 (p)Appendix A - 5.2G Appendix A - 5.8G

2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013

KDB 789033 D02 General UNII Test Procedures New Rules v02r01



5 General Information

5.1 Client Information

Applicant:	Autel Robotics Co., Ltd.
Address:	9th Floor, Bldg. B1, Zhiyuan, 1001 Xueyuan Rd., Xili, Nanshan, Shenzhen 518055, China
Manufacturer/ Factory:	Autel Robotics Co., Ltd.
Address:	9th Floor, Bldg. B1, Zhiyuan, 1001 Xueyuan Rd., Xili, Nanshan, Shenzhen 518055, China

5.2 General Description of E.U.T.

Product Name:	DragonFish Base Station
Model No.:	DFMS-2
Operation Frequency:	5154MHz-5246MHz, 5728.0MHz~5847.0MHz
Channel numbers:	5154MHz-5246MHz:
	93 for 1.4MHz Bandwidth
	87 for 10 MHz Bandwidth
	67 for 20 MHz Bandwidth
	5728.0MHz~5847.0MHz
	120 for 1.4MHz Bandwidth
	110 for 10 MHz Bandwidth
	102 for 20 MHz Bandwidth
Channel separation:	1MHz
Modulation technology	QPSK and 16QAM
ANT TXRX Type:	MIMO
Antenna Type:	External Antenna
Antenna gain:	ANT 1 and ANT 2
	5.2GHz: 4.03dBi(declare by Applicant)
	5.8GHz: 5.35dBi(declare by Applicant)
Power supply:	High Performance Li-po Battery DC11.55V, 4950mAh
AC adapter:	Model: GaN-001 us
	Input: AC100-240V, 50/60Hz, 1.5A
	Total Output Power: 65.0W Max
	USB-C1/C2:5V=3.0A, 9V=3.0A, 12V=3.0A,
	15V=3.0A, 20V=3.25A,12V=3.0A 65.0W Max
	USB-A:3.4-5.5V=5.0A, 5V=3.0A
	9V=3.0A, 12V=3.0A
	20V=3.0A 60.0W Max
Test Sample Condition:	The test samples were provided in good working order with no visible defects.



5.2GHz:

Operation Frequency each of channel for 1.4MHz Bandwidth											
Channel	Channel Frequency Channel Frequency Channel Frequency										
1 5154MHz											
2 5155MHz 48 5201MHz 92 5245MH											
3	3 5156MHz 93 5246MHz										
Note:											
1. Channel 1, 48	1. Channel 1, 48 & 93 selected as Lowest, Middle and Highest channel.										

Operation Frequency each of channel for 10MHz Bandwidth										
Channel Frequency Channel Frequency Channel Frequency										
1 5157MHz										
2	5158MHz	45	5201MHz	86	5242MHz					
3	3 5159MHz 87 5243MHz									
Note:										
2. Channel 1, 45										

Operation Frequency each of channel for 20MHz Bandwidth										
Channel Frequency Channel Frequency Channel Frequency										
1 5167MHz										
2 5168MHz 35 5201MHz 66 5232										
3	3 5169MHz 67 5233MHz									
Note:										
3. Channel 1, 35	3. Channel 1, 35 & 67 selected as Lowest, Middle and Highest channel.									

5.8GHz:

Operation Frequency each of channel for 1.4MHz Bandwidth									
Channel Frequency Channel Frequency Channel Frequency Channel Frequency									
1	5728.0MHz	4	5731.0MHz			120	5847.0MHz		
2	5729.0MHz	5	5732.0MHz	61	5788MHz				
3	3 5730.0MHz 6 5733.0MHz								
Note:									
1 Channel	1 61 & 120 select	ed as Lowest	t Middle and Hial	hest channel					

1. Channel 1, 61 & 120 selected as Lowest, Middle and Highest channel.

Operation Frequency each of channel for 10MHz Bandwidth										
Channel Frequency Channel Frequency Channel Frequency Channel Frequency										
1 5733.0MHz 4 5736.0MHz 109 5841.0MHz										
2	5734.0MHz	5	5737.0MHz	56	5788.0MHz	110	5842.0MHz			
3	5735.0MHz	6	5738.0MHz							
Note:										
1. Channel	1. Channel 1, 56 & 110 selected as Lowest, Middle and Highest channel.									

Operation Frequency each of channel for 51 for 20MHz Bandwidth										
Channel Frequency Channel Frequency Channel Frequency Channel Frequency										
1	5738.0MHz	4	5741.0MHz			50	5838.0MHz			
2	5739.0MHz	5	5742.0MHz	52	5789.0MHz	51	5839.0MHz			
3	5740.0MHz	6	5743.0MHz							
Note:										
1. Channel	1, 52 & 51 selecte	d as Lowest,	Middle and Highe	est channel.						

JianYan Testing Group Shenzhen Co., Ltd. No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366 Project No.: JYTSZE2110039



5.3 Test environment and mode

Operating Environment:					
Temperature:	24.0 °C				
Humidity:	54 % RH				
Atmospheric Pressure:	1010 mbar				
Test mode:					
Continuously transmitting mode	Keep the EUT in 100% duty cycle transmitting with modulation.				
	and function in typical operation. All the test modes were carried out with which was shown in this test report and defined as follows:				

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC		
The EUT has been tested as an independent unit.						

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB
Radiated Emission (30MHz ~ 1GHz) for 10m SAC	4.32 dB

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.



5.8 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.10¹, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com



5.10 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+		Version:3.0.0.1	

Conducted Emission:								
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)			
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022			
LISN	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022			
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022			
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022			
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022			
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022			
EMI Test Software	AUDIX	E3	V	ersion: 6.110919	b			

Conducted method:								
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)			
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021			
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021			
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021			
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021			
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021			
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A			
PDU	MWRF-test	XY-G10	N/A	N/A	N/A			
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021			
Temperature Humidity	Zhanazhi	CZ-C-150D	7140404	11-01-2020	10-31-2021			
Chamber	ZhongZhi	CZ-C-150D	ZH16491	11-01-2021	10-31-2022			
Test Software	MWRF-tes	MTS 8310	,	Version: 2.0.0.0				



6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:							
responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohil This requirement does not a of §15.211, § 15.213, § 15.2 intentional radiators that mu some field disturbance sens must be measured at the ins	sed with the device. The use of a p coupling to the intentional radiator, n be replaced by the user, but the bited. pply to carrier current devices or to 217, § 15.219, or § 15.221. Further, st be professionally installed, such ors, or to other intentional radiators	o devices operated under the provisions , this requirement does not apply to as perimeter protection systems and s which, in accordance with § 15.31(d), er shall be responsible for ensuring that					
E.U.T Antenna:							
The antenna cannot replace	The antenna cannot replace by end-user, the best case gain of the antenna as bellow:						
Band	ANT 1 Gain	ANT 2 Gain					
5.2GHz	4.03dBi	4.03dBi					
5.8GHz	5.35dBi	5.35dBi					



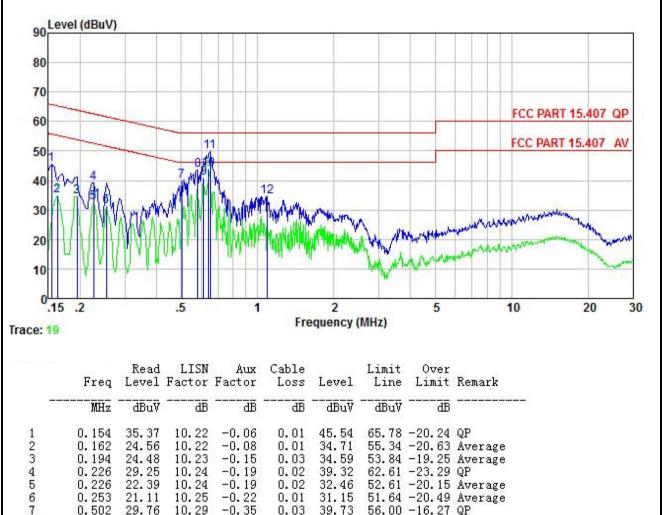
6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.2	07				
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Frequency range (MHz) Limit (dBuV)					
	0.15-0.5	66 to 56*	0.15-0.5			
	0.5-5	56	0.5-5			
	5-30	60	5-30			
	* Decreases with the logarit	hm of the frequency.				
Test procedure	 line impedance stabiliz 50ohm/50uH coupling i The peripheral devices LISN that provides a 50 termination. (Please rei photographs). Both sides of A.C. line interference. In order to positions of equipment 	ors are connected to the m ation network (L.I.S.N.). It impedance for the measur are also connected to the Dohm/50uH coupling impe fer to the block diagram of are checked for maximum of find the maximum emissi and all of the interface cal .10(latest version) on cond	provides a ing equipment. main power through a dance with 50ohm the test setup and conducted ion, the relative bles must be changed			
Test setup:	Referen 40cm 40cm Equipment E.U Test table/Insulation plan Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization. Test table height=0.8m	e I EMI Receiver	— AC power			
Test Instruments:	Refer to section 5.10 for det	ails				
Test mode:	Refer to section 5.3 for deta	ils.				
Test results:	Passed					



Measurement Data:

Product name:	DragonFish Base Station	Product model:	DFMS-2
Test by:	Mike	Test mode:	5.2GHz Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



34.59

39.32

32.46

31.15

39.73

43.65

40.69

43.71

49.90

34.68

0.03

0.02

0.02

0.01

0.03

0.02

0.02

0.02

0.03

0.07

53.84 -19.25 Average

52.61 -20.15 Average 51.64 -20.49 Average

-6.10 QP

-5.31 Average

-2.29 Average

62.61 -23.29 QP

56.00 -16.27 QP

56.00 -12.35 QP

56.00 -21.32 QP

46.00

46.00

56.00

Notes:

8

9

10

11

12

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

-0.15

-0.19

-0.19

-0.22

-0.35

-0.37

-0.38

-0.39

-0.39

0.37

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss. 3

10.23

10.24

10.24

10.25

10.29

10.29

10.30

10.30

10.30

10.32

24.48

29.25

22.39

21.11

29.76

33.71

30.75

33.78

39.96

23.92

0.194

0.226

0.226 0.253

0.502

0.582

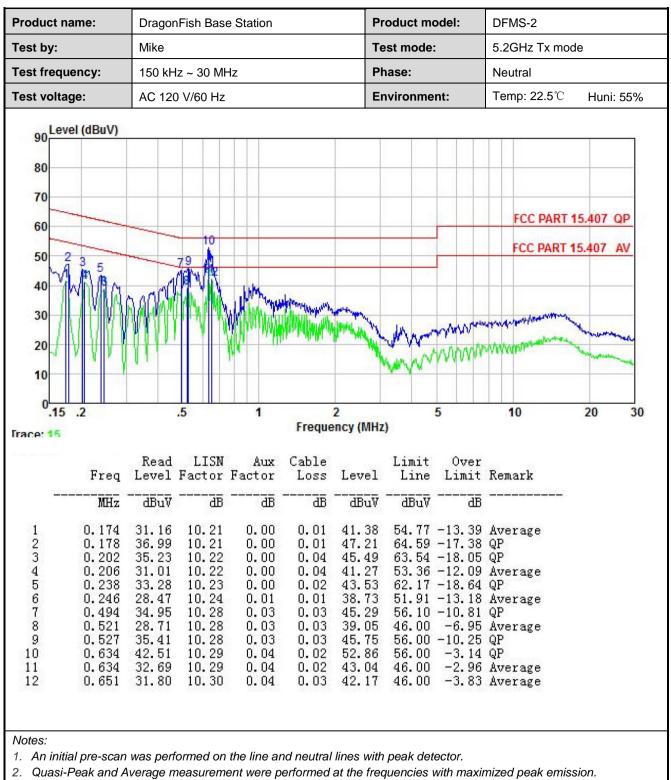
0.614

0.641

0.651

1.088





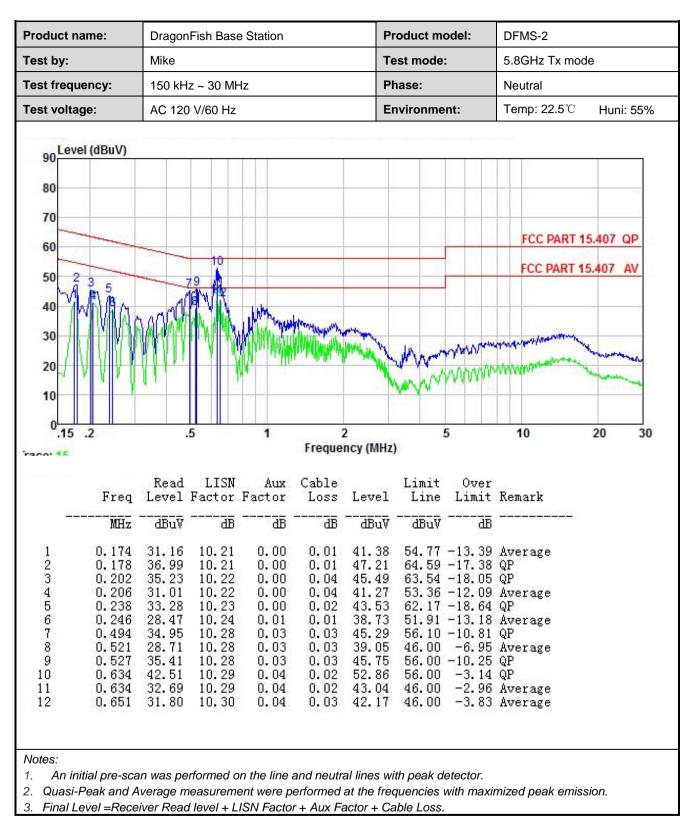
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



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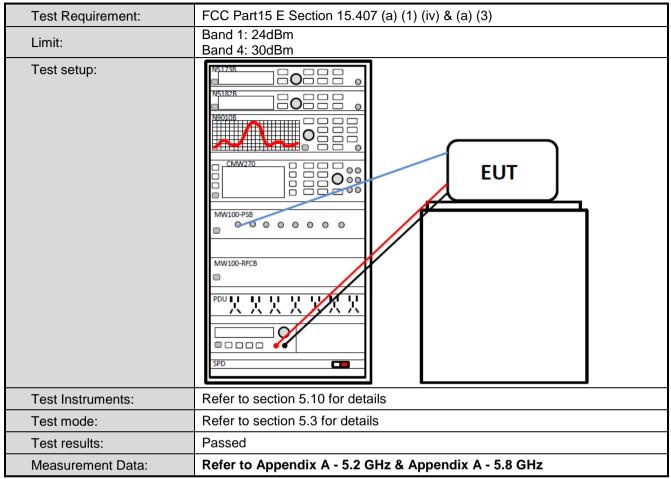
roduct name:	Dragor	DragonFish Base Station			Product model:		DFMS-2	DFMS-2	
est by:	Mike	Mike		Test mode:		5.8GHz Tx n	5.8GHz Tx mode		
est frequency:	150 kH	150 kHz ~ 30 MHz		1	Phase:		Line	Line	
est voltage:	AC 120) V/60 Hz				Environr	ment:	Temp: 22.5°	C Huni: 55%
90 Level (dBu\ 80 70 60 50 40 30 20 10		54 54 1		10		hym			T 15.407 QP T 15.407 AV
0 15 2		.5	1		2		5	10	20 30
0.15 .2	110	.5	1	Freq	2 uency (M	Hz)	5	10	20 30
race: 13 Freq	Read	LISN Factor	Aux Factor	Cable Loss	uency(M Level	Limit Line	Over Limit		20 30
race: 13	Level	LISN	Aux Factor	Cable	uency (M	Limit	Over Limit		20 30







6.3 Conducted Output Power





6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 E Section 15.407 (a) (12) and Section 15.407 (e)
Limit:	Band 1/4: N/A (26dB Emission Bandwidth and 99% Occupy Bandwidth) Band 4: >500kHz (6dB Bandwidth)
Test setup:	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 5.2 GHz & Appendix A - 5.8 GHz



6.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a) (3)				
Limit:	Band 1: 11 dBm/MHz Band 4: 30 dBm/500kHz				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table				
	Ground Reference Plane				
Test Instruments:	Refer to section 5.10 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				
Measurement Data:	Refer to Appendix A - 5.2 GHz & Appendix A - 5.8 GHz				



6.6 Band Edge

Test Requirement:	FCC Part 15 E Section	15.407 (b)				
Receiver setup:	Detector	RBW	VBW	Remark		
Receiver Setup.	Quasi-peak	120kHz	300kHz	Quasi-peak Value		
	RMS	1MHz	3MHz	Average Value		
Limit:	Band	Limit (dBuV/m		Remark		
Linnt.		68.20		Peak Value		
	5.2GHz					
Test Procedure:	S.2GHZ 54.00 Average Value Remark: 1. 5.2GHz limit: E[dBµV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm. 2. Band 4 limit: E[dBµV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm. E[dBµV/m] = EIRP[dBm] + 95.2=105.2 dBuV/m, for EIPR[dBm]=10dBm. E[dBµV/m] = EIRP[dBm] + 95.2=110.8 dBuV/m, for EIPR[dBm]=15.6dBm. E[dBµV/m] = EIRP[dBm] + 95.2=122.2 dBuV/m, for EIPR[dBm]=27dBm. 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re- tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
Test setup:		AE EUT (Turntable) Ground Reference F Test Receiver				
Test Instruments:	Refer to section 5.10 for	details				
Test mode:	Refer to section 5.3 for o					
Test results:	Passed					



Measurement Data (worst case):

5.2GHz:

			BW	1.4MHz-QP	SK			
		Те	st chan	nel: Lowest	channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)		evel uV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarit
5150.00	39.50	15.49	54.99		68.20	13.21	Horizontal	Peak
5150.00	43.57	15.49	59	9.06	68.20	9.14	Vertical	Peak
5150.00	31.93	15.49	47	7.42	54.00	6.58	Horizontal	Averag
5150.00	36.72	15.49	52	2.21	54.00	1.79	Vertical	Averag
		Те	st chan	nel: Highest	channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)		evel uV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polari
5350.00	38.80	16.44	55	5.24	68.20	12.96	Horizontal	Peak
5350.00	39.32	16.44	55	5.76	68.20	12.44	Vertical	Peak
5350.00	30.15	16.44	46	6.59	54.00	7.41	Horizontal	Averag
	22.00	16.44	48	3.52	54.00	5.48	Vertical	Averag
5350.00	32.08	10.44		.4MHz-16Q	AM		1	
5350.00	32.08		BW 1	I.4MHz-16Q				
5350.00 Frequency (MHz)	Read Level (dBuV/m)		BW 1 st chan			Ŭ	Polarization	Polari
Frequency	Read Level	Te	BW 1 st chan (dB)	inel: Lowest Level	channel Limit Line	-	Polarization	
Frequency (MHz)	Read Level (dBuV/m)	Te Factor	BW 1 st chan (dB) 9	nel: Lowest Level (dBuV/m)	channel Limit Line (dBuV/m)	[dB]		Peak
Frequency (MHz) 5150.00	Read Level (dBuV/m) 39.63	Te Factor 15.4	BW 1 st chan (dB) 9 9	nel: Lowest Level (dBuV/m) 55.12	channel Limit Line (dBuV/m) 68.20	[dB] 13.08	Horizontal	Polarii Peak Peak Averaç
Frequency (MHz) 5150.00 5150.00	Read Level (dBuV/m) 39.63 43.75	Te Factor 15.4	BW 1 st chan (dB) 9 9 9	nel: Lowest Level (dBuV/m) 55.12 59.24	channel Limit Line (dBuV/m) 68.20 68.20	[dB] 13.08 8.96	Horizontal Vertical	Peak Peak
Frequency (MHz) 5150.00 5150.00 5150.00	Read Level (dBuV/m) 39.63 43.75 31.97	Te Factor 15.4 15.4 15.4 15.4	BW 1 st chan (dB) 9 9 9 9 9	nel: Lowest Level (dBuV/m) 55.12 59.24 47.46	channel Limit Line (dBuV/m) 68.20 68.20 54.00 54.00	[dB] 13.08 8.96 6.54	Horizontal Vertical Horizontal	Peak Peak Averaç
Frequency (MHz) 5150.00 5150.00 5150.00	Read Level (dBuV/m) 39.63 43.75 31.97	Te Factor 15.4 15.4 15.4 15.4	BW 1 st chan (dB) 9 9 9 9 9 9 5 5 t chan	nel: Lowest Level (dBuV/m) 55.12 59.24 47.46 52.05	channel Limit Line (dBuV/m) 68.20 68.20 54.00 54.00	[dB] 13.08 8.96 6.54 1.95 Margin	Horizontal Vertical Horizontal	Peak Peak Averaç
Frequency (MHz) 5150.00 5150.00 5150.00 5150.00 Frequency	Read Level (dBuV/m) 39.63 43.75 31.97 36.56 Read Level	Te Factor 15.4 15.4 15.4 15.4 15.4 Te	BW 1 st chan (dB) 9 9 9 9 9 9 5t chan (dB)	nel: Lowest Level (dBuV/m) 55.12 59.24 47.46 52.05 nel: Highest Level	channel Limit Line (dBuV/m) 68.20 68.20 54.00 54.00 channel Limit Line	[dB] 13.08 8.96 6.54 1.95 Margin	Horizontal Vertical Horizontal Vertical	Peak Peak Averaç Averaç
Frequency (MHz) 5150.00 5150.00 5150.00 5150.00 Frequency (MHz)	Read Level (dBuV/m) 39.63 43.75 31.97 36.56 Read Level (dBuV/m)	Te Factor 15.4 15.4 15.4 15.4 15.4 Te Factor	BW 1 st chan (dB) 9 9 9 9 9 9 9 9 9 9 9 9 9 9 (dB) (dB) 4	nel: Lowest Level (dBuV/m) 55.12 59.24 47.46 52.05 nel: Highest Level (dBuV/m)	channel Limit Line (dBuV/m) 68.20 68.20 54.00 54.00 channel Limit Line (dBuV/m)	[dB] 13.08 8.96 6.54 1.95 Margin [dB]	Horizontal Vertical Horizontal Vertical Polarization	Peak Peak Averaç Averaç Polari Peak
Frequency (MHz) 5150.00 5150.00 5150.00 5150.00 Frequency (MHz) 5350.00	Read Level (dBuV/m) 39.63 43.75 31.97 36.56 Read Level (dBuV/m) 40.32	Te Factor 15.4 15.4 15.4 15.4 15.4 Te Factor 16.4	BW 1 st chan (dB) 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	nel: Lowest Level (dBuV/m) 55.12 59.24 47.46 52.05 nel: Highest Level (dBuV/m) 56.76	channel Limit Line (dBuV/m) 68.20 68.20 54.00 54.00 channel Limit Line (dBuV/m) 68.20	[dB] 13.08 8.96 6.54 1.95 Margin [dB] 11.44	Horizontal Vertical Horizontal Vertical Polarization Horizontal	Peak Peak Averag Averag Polari



		BW	10MHz-QPS	ĸ			
		Test char	nnel: Lowest c	hannel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	40.17	15.49	55.66	68.20	12.54	Horizontal	Peak
5150.00	45.13	15.49	60.62	68.20	7.58	Vertical	Peak
5150.00	32.20	15.49	47.69	54.00	6.31	Horizontal	Averag
5150.00	36.16	15.49	51.65	54.00	2.35	Vertical	Averag
		Test char	nel: Highest c	channel			-
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	38.80	16.44	55.24	68.20	12.96	Horizontal	Peak
5350.00	39.52	16.44	55.96	68.20	12.24	Vertical	Peak
5350.00	30.98	16.44	47.42	54.00	6.58	Horizontal	Averag
5350.00	31.67	16.44	48.11	54.00	5.89	Vertical	Averag
			10MHz-16QA				
		Test char	nnel: Lowest c	hannel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarit
5150.00	40.34	15.49	55.83	68.20	12.37	Horizontal	Peak
5150.00	45.27	15.49	60.76	68.20	7.44	Vertical	Peak
5150.00	32.26	15.49	47.75	54.00	6.25	Horizontal	Averag
5150.00	36.19	15.49	51.68	54.00	2.32	Vertical	Averag
		Test char	nel: Highest c	hannel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarit
5350.00	39.66	16.44	56.10	68.20	12.1	Horizontal	Peak
5350.00	40.36	16.44	56.80	68.20	11.4	Vertical	Peak
0000.00		10.11	48.97	54.00	5.03	Horizontal	Averag
5350.00	32.53	16.44	40.37	0 1100	0.00	Tienzenta	7.00149

1. Final Level = Receiver Read level + Factor.



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	BW 20MHz-QPSK									
	Test channel: Lowest channel									
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity			
5150.00	39.54	15.49	55.03	68.20	13.17	Horizontal	Peak			
5150.00	39.57	15.49	55.06	68.20	13.14	Vertical	Peak			
5150.00	31.70	15.49	47.19	54.00	6.81	Horizontal	Average			
5150.00	32.72	15.49	48.21	54.00	5.79	Vertical	Average			
		Test char	nel: Highest o	channel						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity			
5350.00	38.16	16.44	54.60	68.20	13.60	Horizontal	Peak			
5350.00	38.67	16.44	55.11	68.20	13.09	Vertical	Peak			
5350.00	31.84	16.44	48.28	54.00	5.72	Horizontal	Average			
5350.00	30.81	16.44	47.25	54.00	6.75	Vertical	Average			
·										
		D\M/	20141-1601	м						

	BW 20MHz-16QAM									
Test channel: Lowest channel										
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity			
5150.00	39.06	15.49	54.55	68.20	13.65	Horizontal	Peak			
5150.00	39.28	15.49	54.77	68.20	13.43	Vertical	Peak			
5150.00	31.44	15.49	46.93	54.00	7.07	Horizontal	Average			
5150.00	33.08	15.49	48.57	54.00	5.43	Vertical	Average			
		Test char	nel: Highest	channel						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity			
5350.00	40.25	16.44	56.69	68.20	11.51	Horizontal	Peak			
5350.00	40.17	16.44	56.61	68.20	11.59	Vertical	Peak			
5350.00	31.54	16.44	47.98	54.00	6.02	Horizontal	Average			
5350.00	30.99	16.44	47.43	54.00	6.57	Vertical	Average			
Domortu										

Remark:

1. Final Level = Receiver Read level + Factor.



		BW 1.4M	Hz-QPSK			
		Test channel: I	_owest channe	el		
		Detector: F	Peak Value			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarizatior
5650.00	39.72	18.87	58.59	68.20	9.61	Horizontal
5700.00	40.05	19.05	59.10	105.20	46.10	Horizontal
5720.00	45.35	19.00	64.35	110.80	46.45	Horizontal
5725.00	54.77	18.99	73.76	122.20	48.44	Horizontal
5650.00	39.48	18.87	58.35	68.20	9.85	Vertical
5700.00	43.80	19.05	62.85	105.20	42.35	Vertical
5720.00	56.26	19.00	75.26	110.80	35.54	Vertical
5725.00	64.29	18.99	83.28	122.20	38.92	Vertical
		Test channel: H	lighest channel			
		Detector: F	Peak Value			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5850.00	39.72	19.10	58.82	122.20	63.38	Horizontal
5855.00	39.12	19.12	58.24	110.80	52.56	Horizontal
5875.00	39.05	19.23	58.28	105.20	46.92	Horizontal
5925.00	38.66	19.39	58.05	68.20	10.15	Horizontal
5850.00	37.86	19.10	56.96	122.20	65.24	Vertical
5855.00	39.63	19.12	58.75	110.80	52.05	Vertical
5875.00	38.64	19.23	57.87	105.20	47.33	Vertical
5925.00	39.04	19.39	58.43	68.20	9.77	Vertical





			lz-16QAM			
		Test channel: I	owest channe	əl		
		Detector: F	Peak Value			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5650.00	40.12	18.87	58.99	68.20	9.21	Horizontal
5700.00	39.56	19.05	58.61	105.20	46.59	Horizontal
5720.00	45.06	19.00	64.06	110.80	46.74	Horizontal
5725.00	54.92	18.99	73.91	122.20	48.29	Horizontal
5650.00	39.31	18.87	58.18	68.20	10.02	Vertical
5700.00	44.12	19.05	63.17	105.20	42.03	Vertical
5720.00	56.69	19.00	75.69	110.80	35.11	Vertical
5725.00	63.91	18.99	82.90	122.20	39.30	Vertical
		Test channel: H	lighest channel			
		Detector: F	Peak Value			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarizatior
5850.00	39.49	19.10	58.59	122.20	63.61	Horizontal
5855.00	39.22	19.12	58.34	110.80	52.46	Horizontal
5875.00	39.43	19.23	58.66	105.20	46.54	Horizontal
5925.00	38.18	19.39	57.57	68.20	10.63	Horizontal
5850.00	37.43	19.10	56.53	122.20	65.67	Vertical
5855.00	39.64	19.12	58.76	110.80	52.04	Vertical
5875.00	39.11	19.23	58.34	105.20	46.86	Vertical
	39.24	19.39	58.63	68.20	9.57	Vertical





		Test channel: I	Hz-QPSK	I		
			Peak Value	·1		
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5650.00	39.43	18.87	58.30	68.20	9.90	Horizontal
5700.00	40.95	19.05	60.00	105.20	45.20	Horizontal
5720.00	42.94	19.00	61.94	110.80	48.86	Horizontal
5725.00	52.72	18.99	71.71	122.20	50.49	Horizontal
5650.00	40.43	18.87	59.30	68.20	8.90	Vertical
5700.00	41.00	19.05	60.05	105.20	45.15	Vertical
5720.00	54.34	19.00	73.34	110.80	37.46	Vertical
5725.00	64.30	18.99	83.29	122.20	38.91	Vertical
		Test channel: H	lighest channel			
		Detector: F	Peak Value			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5850.00	38.39	19.10	57.49	122.20	64.71	Horizontal
5855.00	39.32	19.12	58.44	110.80	52.36	Horizontal
5875.00	39.36	19.23	58.59	105.20	46.61	Horizontal
5925.00	39.66	19.39	59.05	68.20	9.15	Horizontal
5850.00	43.79	19.10	62.89	122.20	59.31	Vertical
5855.00	40.60	19.12	59.72	110.80	51.08	Vertical
5875.00	40.37	19.23	59.60	105.20	45.60	Vertical
00.0.00	38.00	19.39	57.39	68.20	10.81	Vertical





			Iz-16QAM	1		
		Test channel: L				
		Detector: F	Peak Value			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarizatior
5650.00	39.42	18.87	58.29	68.20	9.91	Horizontal
5700.00	40.77	19.05	59.82	105.20	45.38	Horizontal
5720.00	43.06	19.00	62.06	110.80	48.74	Horizontal
5725.00	52.73	18.99	71.72	122.20	50.48	Horizontal
5650.00	40.58	18.87	59.45	68.20	8.75	Vertical
5700.00	40.52	19.05	59.57	105.20	45.63	Vertical
5720.00	54.75	19.00	73.75	110.80	37.05	Vertical
5725.00	64.77	18.99	83.76	122.20	38.44	Vertical
		Test channel: H	lighest channel			
		Detector: F	Peak Value			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5850.00	38.79	19.10	57.89	122.20	64.31	Horizontal
5855.00	39.16	19.12	58.28	110.80	52.52	Horizontal
5875.00	39.21	19.23	58.44	105.20	46.76	Horizontal
5925.00	39.74	19.39	59.13	68.20	9.07	Horizontal
5850.00	43.98	19.10	63.08	122.20	59.12	Vertical
5855.00	40.50	19.12	59.62	110.80	51.18	Vertical
5875.00	40.40	19.23	59.63	105.20	45.57	Vertical
5925.00	38.17	19.39	57.56	68.20	10.64	Vertical

1. Final Level = Receiver Read level + Factor.





		BW 20M	Hz-QPSK			
		Test channel: I	_owest channe	1		
		Detector: F	Peak Value			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarizatio
5650.00	41.19	18.87	41.19	68.20	27.01	Horizontal
5700.00	43.03	19.05	62.08	105.20	43.12	Horizontal
5720.00	45.57	19.00	64.57	110.80	46.23	Horizontal
5725.00	56.93	18.99	75.92	122.20	46.28	Horizontal
5650.00	40.32	18.87	59.19	68.20	9.01	Vertical
5700.00	40.71	19.05	59.76	105.20	45.44	Vertical
5720.00	56.32	19.00	75.32	110.80	35.48	Vertical
5725.00	63.91	18.99	82.90	122.20	39.30	Vertical
		Test channel: I	lighest channel			
		Detector: I	Peak Value			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5850.00	44.98	19.10	64.08	122.20	58.12	Horizontal
5855.00	40.54	19.12	59.66	110.80	51.14	Horizontal
5875.00	39.46	19.23	58.69	105.20	46.51	Horizontal
5925.00	39.06	19.39	58.45	68.20	9.75	Horizontal
5850.00	56.78	19.10	75.88	122.20	46.32	Vertical
5855.00	49.81	19.12	68.93	110.80	41.87	Vertical
5875.00	38.28	19.23	57.51	105.20	47.69	Vertical
5925.00	38.29	19.39	57.68	68.20	10.52	Vertical





		BW 20MF	Iz-16QAM			
		Test channel: I	_owest channe)		
		Detector: F	Peak Value			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarizatior
5650.00	40.85	18.87	59.72	68.20	8.48	Horizontal
5700.00	42.67	19.05	61.72	105.20	43.48	Horizontal
5720.00	45.48	19.00	64.48	110.80	46.32	Horizontal
5725.00	57.15	18.99	76.14	122.20	46.06	Horizontal
5650.00	40.61	18.87	59.48	68.20	8.72	Vertical
5700.00	40.31	19.05	59.36	105.20	45.84	Vertical
5720.00	56.60	19.00	75.60	110.80	35.20	Vertical
5725.00	63.93	18.99	82.92	122.20	39.28	Vertical
		Test channel: I	lighest channel			
		Detector: I	Peak Value			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5850.00	44.54	19.10	63.64	122.20	58.56	Horizontal
5855.00	40.82	19.12	59.94	110.80	50.86	Horizontal
5875.00	39.38	19.23	58.61	105.20	46.59	Horizontal
5925.00	39.29	19.39	58.68	68.20	9.52	Horizontal
5850.00	56.4	19.10	75.50	122.20	46.70	Vertical
5855.00	50.00	19.12	69.12	110.80	41.68	Vertical
5875.00	38.56	19.23	57.79	105.20	47.41	Vertical
	38.10	19.39	57.49	68.20	10.71	Vertical



6.7 Spurious Emission

6.7.1 Restricted Band

Test Requirement:	FCC Part15 E Section 15.407(b)						
Test Frequency Range:	5.35GHz to 5.46GH	lz					
Test site:	Measurement Dista	ince: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Remark		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
		RMS	1MHz	3MHz	Average Value		
Limit:	Frequency		<u>mit (dBuV/m @</u> 74.00	3m)	Remark Peak Value		
	Above 1(jHz						
Test Procedure:	 Above 1GHz 54.00 Average Value The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or 						
Test setup:	Swwwwww	AE EUT (Turntable) Te	Horn Ante	Antenna Tower	Smmmm		
Test Instruments:	Refer to section 5.1	0 for details					
Test mode:	Refer to section 5.3	for details					
Test results:	Passed(Refer to se	ction 6.6)					



Test Requirement:	FCC Part 15 C Se	ection 15.209	and 15.205					
Test Frequency Range:	9kHz to 40GHz							
Test Distance:	3m							
Receiver setup:	Frequency Detector RBW VBW Rema							
	30MHz-1GHz	Quasi-peak	120KHz	300KHz		Quasi-peak Value		
	Above 1GHz	Peak			<u>/Hz</u>	Peak Value Average Value		
Limite	RMS 1MHz 3MHz Av							
Limit:	30MHz-88MH		40.0			Remark Quasi-peak Value		
	88MHz-216MH		43.5			Quasi-peak Value		
	216MHz-960M		46.0			uasi-peak Value		
	960MHz-1GH	z	54.0		Q	uasi-peak Value		
	Above 1GHz	,	54.0			Average Value		
Test Procedure:			74.0 e top of a rotat			Peak Value		
	 highest radiat 2. The EUT was antenna, whit tower. 3. The antenna ground to det horizontal and measuremen 4. For each sus and then the and the rota to maximum rea 5. The test-rece Specified Bar 6. If the emission limit specified the EUT wou 10dB margin 	tion. s set 3 meters ch was mount height is varie ermine the m d vertical pola t. pected emiss antenna was able was turn ading. iver system w ndwidth with M n level of the l, then testing ld be reported would be re-t	ed from one me aximum value rizations of the on, the EUT w tuned to heigh ed from 0 deg vas set to Peak Maximum Hold EUT in peak m could be stopp I. Otherwise th	e interf of a va eter to of the e anter vas arr ts fron rees to Mode node v bed ar e emis one us	ference four m field s nna are anged n 1 me o 360 c ct Fune vas 10 nd the ssions ing pe	e-receiving height antenna neters above the trength. Both e set to make the to its worst case ter to 4 meters degrees to find the ction and dB lower than the peak values of that did not have ak, quasi-peak or		
Test setup:	Below 1GHz	e 0.8m						

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Project No.: JYTSZE2110039



Report No: JYTSZB-R12-2102122

	Horn Antenna Tower Horn Antenna Tower Horn Antenna Tower Ground Reference Plane Test Receiver
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30MHz is lower than the limit 20dB, so only shows the data of above 30MHz in this report. Pre-scan all kind of Bandwidth and Modulation and found the 1.4MHz and QPSK is the worst case.



Measurement Data (worst case):

Below 1GHz

roduct	Name	e:	DragonFish Base Station			Produc	t Model:	DFMS-2		DFMS-2					
est By:			Mike				Test me	Test mode:		5.2GHz Tx mode					
est Fre	quen	cy:	30 MHz ~ 1	GHz			Polariza	Polarization:		Vertical			Vertical		
est Vol	tage:		DC 11.55				Enviror	nment:	Temp: 24°C Huni:						
Level[dBµV/m]	120 110 90 80 70 60 50 40 30 20					FCC PART	15 407		FC	C PART 15.407-QP	Limit				
	10 0 30M	QP Limit QP Detector	Vertical PK	2 mar mar from from from from the former of	00M	Frequenc	y[Hz]	and the second			1G				
Ĭ	10 0 30M	- QP Limit	Vertical PK	the man was allowed and the	00M	Frequenc	(Hz]				1G				
	10 0 30M	← QP Limit ♦ QP Detector	Vertical PK	[d Lev	/el↩	Frequency Frequency Factor⊷ [dB]∂	(Hz)	Margin.∉ [dB]₽	Trace₽	Polarity					
	10 0 30M	QP Limit ↓ QP Detector ected Dat Freq.+/	Vertical PK a List ∂ Reading BµV/m	[d Lev]-→ [dBµ)	/el↩	Factor	Limit	-							
	10 30M	OP Limit OP Detector OP Detector Creq	Vertical PK a List Reading BµV/m 35.054	[d Lev]∞ [dBµ\ ∞ 16.9	vel⊬ V/m]↩	Factor⊮ [dB]⊬	Limit⊮ [dBµV/m]⊷	[dB]₽	Trace	Polarity	ته بو				
	10 0 30M Suspe NO.4 1.2	QP Limit QP Detector QP Detector Freq [MHz] 30.9701:	Vertical PK a List Reading BµV/m 35.054	[d Lev] [dBµ) 16.1 10.1	vel∝ V/m]∂ 81₽	Factor⊮ [dB]⊮ -18.24⊮	Limit⊮ [dBµV/m]⊮ 40.00₽	[dB]⊬ 23.19₽	Trace PK.	Polarity Vertical	сц сц				
	10 0 30M Suspe NO.4 1 4 2 4	QP Limit QP Detector QP Detector Freq [MHz] 30.9701 66.7667		[d Lev]= [dBu) = 16.1 = 10.3 = 9.7	/el⊮ ⊈//m]⊮ 81₽ 54₽	Factor⊮ [dB]- -18.24+ -18.23+	Limit-/ [dBµV/m]-/ 40.00./ 40.00./	[dB]- 23.19⊷ 29.46⊷	Trace PKe PKe	Polarity Vertical Vertical	47 47 47				
	10 0 30M Suspe NO.40 1.40 2.40 3.40	QP Limit QP Detector QP Detector Freq ² [MHZ]. ² 30.9701 66.7667 115.077		[d Lev]→ [dBµ) → 16.3 → 10.3 → 9.7 → 17.4	vel⊷ ≰/m]₽ 81₽ 54₽ 74₽	Factor₊ [dB]₂ -18.24₊ -18.23₊₂ -17.62₊₂	Limit-/ [dBµV/m]-/ 40.00./ 40.00./ 43.50./	[dB].0 23.19.0 29.46.0 33.76.0	Trace PK PK PK PK	Polarity Vertical Vertical Vertical					



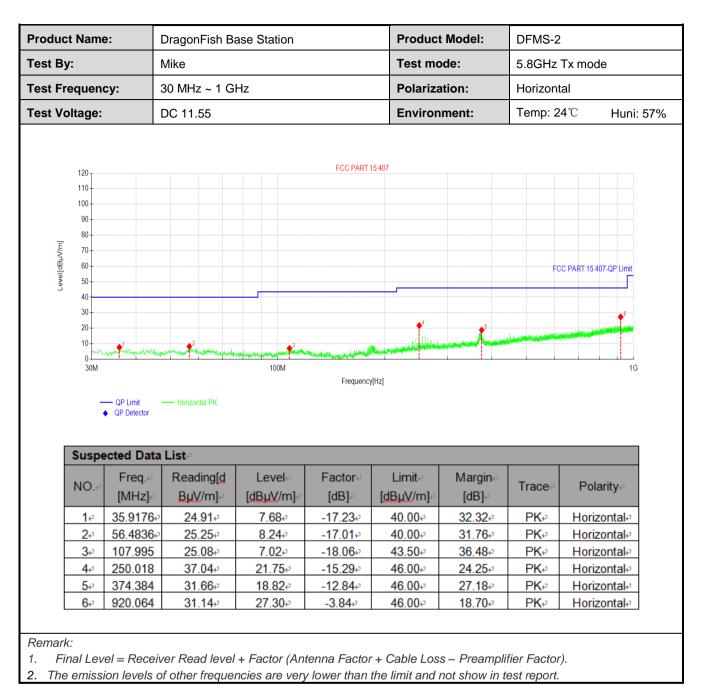
roduct Nan	ne:	DragonFish Base Station			Product	Product Model:		DFMS-2	
Test By: Test Frequency:		Mike			Test mo	Test mode:		5.2GHz Tx mode	
		30 MHz ~ 1 GHz				Polarization:		Horizontal	
est Voltage	-	DC 11.55			Environ	ment:	Temp: 24°C Huni:		
				FCC PART 1	15 407				
120 110				FUCTART	10.407				
100-									
90 -									
80- E 70									
[씨····································							EC	CC PART 15.407-QP Limit	
50- 50-									
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								▲ 6	
30 -					4	_		T	
20-			∳ ³		••••••••••••••••••••••••••••••••••••••	5	والمعادمة المعادمة ا		
20 10	Mayner	Jon May and the second second	3 91-14-16-16-16-16-16-16-16-16-16-16-16-16-16-	Herescher and the state of the	Augulanezan bie hijiddiedi	5.	u an		
20 - 10 -	Malayour Prat scould a	ula share and the second se	nonoodalaan ahaa ahaa ahaa ahaa ahaa ahaa ahaa	Frequency	Regard Antiques and a second	5. 		1G	ì
20 10		un Horizontal PK	а- <u></u>	Frequency	Regard Antiques and a second	5.		1G	à
20 10	August Constanting	رام می	ու	Frequency	Regard Antiques and a second			16	i
20 10	QP Limit	Horizontal PK	angester gall and gal	Frequency	Regard Antiques and a second			16	à
20- 10- 0- 30N	QP Limit		100M	Frequency	Regard Antiques and a second			1G	;].
20- 10- 0 30M	QP Limit OP Detector		100M	Frequency Frequency	Regard Antiques and a second	Margin			
20- 10- 0- 30N	QP Limit OP Detector	List			(Hz]		Trace	Polarity	
20- 10- 0 30M	← QP Limit ◆ QP Detector Dected Data Freq.4	List∉ Reading[d	Level	Factor	(HZ)	Margine			
20- 10- 0- 30M Susj NO.	OP Limit OP Detector	List Reading[d BµV/m]	Level↩ [dBµV/m]↩	Factor⊮ [dB]⊬	(Hz] Limit⊮ [dBµV/m]⊬	Margin.∉ [dB]₽	Trace	Polarity	
20- 10- 0- 30M Susi NO. 1+7	→ QP Limit → QP Detector → CP Detector → CP Detector → CP Detector → CP Limit → CP Limit → CP Limit → CP Limit → CP Detector → CP Detector	List Reading[d BµV/m] 24.05+	Level₊/ [dBµV/m]₊⁄ 6.99₊	Factor⊮ [dB]⊮ -17.06⊮	(Hz) (Hz) [dBµV/m]₽ 40.00₽	Margin⊮ [dB]₽ 33.01₽	Trace.₀ PK.₀	Polarity Horizontal	
20- 10- 0 30M Susj NO. 1+ ² 2+ ³	OP Limit OP Detector	List Reading[d BµV/m] 24.05 24.38 4	Level↩ [dBµV/m]↩ 6.99↩ 7.33↩	Factor₊ [dB]₀ -17.06₊ -17.05₊₀	Limit-/ [dBµV/m]-/ 40.00./ 40.00./	Margin/ [dB]-/ 33.01/ 32.67/ 30.09/ 24.36-/	Trace.₀ PK.₀ PK.₀	Polarity Horizontal Horizontal Horizontal Horizontal	
20- 10- 0 30M Susj NO. 1+2 2+2 3+2	→ QP Limit → QP Detector → P Detector → Freq/ [MHz]-/ 37.5668/ 57.0657/ 112.749	List Reading[d BµV/m] 24.05 24.38 31.18 4	Level↓ [dBµV/m]↓ 6.99↓ 7.33↓ 13.41↓	Factor [dB] -17.06+- -17.05+- -17.77+-	(Hz) (Hz) [dBµV/m]+2 40.00↔ 40.00↔ 43.50↔	Margin.√ [dB]-⁄ 33.01-⁄ 32.67-∕ 30.09-⁄	Trace∉ PK∉ PK∉ PK€	Polarity Horizontal Horizontal Horizontal	



Report No: JYTSZB-R12-2102122

oduct	DragonFish Base Station					Product	Product Model:		DFMS-2		
est By:		ſ	Mike				Test mode:		5.8GHz Tx mode		
st Fre	quen	cy:	80 MHz ~ 1 GH	Iz		Polariza	Polarization:		Vertical		
st Vol	ltage:	[DC 11.55			Environ	ment:	Temp: 24°C Huni: 5			
Level[dBµV/m]	120 110 90 80 70 60 50 40 30				FCC PART	15.407		FC	SC PART 15 407-QP Limit		
	20 10 0 30M	Law manager and the Manager and th	When any way the	رمینیندر کار مالیه این استان میلاد. 100M	Frequency	(Hz)			1G		
	20 10 0 30M	QP Limit QP Detector	Vertical PK	being the strategy and	Frequency	(H2)			16		
	20 10 0 30M	QP Limit QP Detector	Vertical PK	being the strategy and	Frequency Frequency Factor	(Hz) Limit [dBµV/m]↔	Margin⊮ [dB]⊮	Trace	Polarity		
	20 10 30M	QP Limit QP Detector QP Detector Freq.**	Vertical PK a Liste∂ Reading[d BµV/m]e∂	100M	Factor	Limite	-	Trace PKe			
	20 10 30M Suspe NO	QP Limit QP Detector QP Detector Freq [MHz] 31.06714 65.9906.		100M Level⊷ [dBµV/m]⊷ 14.42↔ 8.90↔	Factor₊ [dB]₀ -18.22₊ -18.03₊	Limit↓ [dBµV/m]↓ 40.00↓↓ 40.00↓↓	[dB]↩ 25.58↩ 31.10↩	PK₽ PK₽	Polarity Vertical Vertical		
	20 10 30M Suspe NO.~ 1.√	QP Limit QP Detector QP Detector Freq.₄ [MHz]₄ 31.06714		100M Level- [dBµV/m]- ³ 14.42- ³ 8.90- ³ 13.75- ³	Factor [dB] 18.22 18.03 -19.31	Limit⊮ [dBµV/m]₽ 40.00₽	[dB]∂ 25.58₽	PK+ PK+ PK+	Polarity Vertical∗ Vertical∗ Vertical		
	20 10 30M Suspe NO	QP Limit QP Detector QP Detector Freq [MHz] 31.06714 65.9906.		100M Level⊷ [dBµV/m]⊷ 14.42↔ 8.90↔	Factor₊ [dB]₀ -18.22₊ -18.03₊	Limit↓ [dBµV/m]↓ 40.00↓↓ 40.00↓↓	[dB]↩ 25.58↩ 31.10↩	PK₽ PK₽	Polarity Vertical Vertical		
	20 10 30M Suspe NO	OP Limit OP Detector OP Detector Freq [MHz]- 31.0671- 65.9906- 130.405		100M Level- [dBµV/m]- ³ 14.42- ³ 8.90- ³ 13.75- ³	Factor [dB] 18.22 18.03 -19.31	Limit-/ [dBµV/m]↔ 40.00↔ 40.00↔ 43.50↔	[dB]↔ 25.58↔ 31.10↔ 29.75↔	PK+ PK+ PK+	Polarity Vertical∗ Vertical∗ Vertical		







Above 1GHz:

			5.2G-20M-C	PSK			
		Te	est channel: Low	est channel			I
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10334.00	53.20	5.59	58.79	74.00	15.21	Vertical	Peak
10334.00	52.22	5.59	57.81	74.00	16.19	Horizontal	Peak
10334.00	44.50	5.59	50.09	54.00	3.91	Vertical	Averag
10334.00	44.61	5.59	50.20	54.00	3.80	Horizontal	Averag
		Τe	est channel: Mid	dle channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10402.00	52.23	5.33	57.56	74.00	16.44	Vertical	Peak
10402.00	52.81	5.33	58.14	74.00	15.86	Horizontal	Peak
10402.00	45.25	5.33	50.58	54.00	3.42	Vertical	Averag
10402.00	44.38	5.33	49.71	54.00	4.29	Horizontal	Averag
		Те	st channel: High	est channel			
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10466.00	52.13	5.86	57.99	74.00	16.01	Vertical	Peak
10466.00	52.43	5.86	58.29	74.00	15.71	Horizontal	Peak
10466.00	44.62	5.86	50.48	54.00	3.52	Vertical	Averag
10466.00	44.00	5.86	49.86	54.00	4.14	Horizontal	Averag
			5.8G-20M-C	2PSK			
		Τe	5.8G-20M-G				
Frequency (MHz)	Read Level (dBuV/m)	Te Factor (dB)			Margin [dB]	Polarization	Trace
			est channel: Low Level	est channel Limit Line	-	Polarization	
(MHz)	(dBuV/m)	Factor (dB)	est channel: Low Level (dBuV/m)	est channel Limit Line (dBuV/m)	[dB]		Peak
(MHz) 11476.00	(dBuV/m) 53.40	Factor (dB) 7.14	est channel: Low Level (dBuV/m) 60.54	est channel Limit Line (dBuV/m) 74.00	[dB] 13.46	Vertical	Trace Peak Peak Averag
(MHz) 11476.00 11476.00	(dBuV/m) 53.40 52.69	Factor (dB) 7.14 7.14	est channel: Low Level (dBuV/m) 60.54 59.83	est channel Limit Line (dBuV/m) 74.00 74.00	[dB] 13.46 14.17	Vertical Horizontal	Peak Peak Averag
(MHz) 11476.00 11476.00 11476.00	(dBuV/m) 53.40 52.69 44.46	Factor (dB) 7.14 7.14 7.14 7.14 7.14	est channel: Low Level (dBuV/m) 60.54 59.83 51.60	est channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00	[dB] 13.46 14.17 2.40	Vertical Horizontal Vertical	Peak
(MHz) 11476.00 11476.00 11476.00	(dBuV/m) 53.40 52.69 44.46	Factor (dB) 7.14 7.14 7.14 7.14 7.14	est channel: Low Level (dBuV/m) 60.54 59.83 51.60 51.62	est channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00	[dB] 13.46 14.17 2.40	Vertical Horizontal Vertical	Peak Peak Averaç Averaç
(MHz) 11476.00 11476.00 11476.00 11476.00 Frequency	(dBuV/m) 53.40 52.69 44.46 44.48 Read Level	Factor (dB) 7.14 7.14 7.14 7.14 7.14 Te	est channel: Low Level (dBuV/m) 60.54 59.83 51.60 51.62 est channel: Mide Level	est channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00 dle channel Limit Line	[dB] 13.46 14.17 2.40 2.38 Margin	Vertical Horizontal Vertical Horizontal	Peak Peak Averag Averag
(MHz) 11476.00 11476.00 11476.00 11476.00 Frequency (MHz)	(dBuV/m) 53.40 52.69 44.46 44.48 Read Level (dBuV/m)	Factor (dB) 7.14 7.14 7.14 7.14 7.14 Te Factor (dB)	est channel: Low Level (dBuV/m) 60.54 59.83 51.60 51.62 est channel: Mide Level (dBuV/m)	est channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00 dle channel Limit Line (dBuV/m)	[dB] 13.46 14.17 2.40 2.38 Margin [dB]	Vertical Horizontal Vertical Horizontal Polarization	Peak Peak Averag Averag Trace
(MHz) 11476.00 11476.00 11476.00 11476.00 Frequency (MHz) 11580.00	(dBuV/m) 53.40 52.69 44.46 44.48 Read Level (dBuV/m) 52.86	Factor (dB) 7.14 7.14 7.14 7.14 7.14 Te Factor (dB) 6.82	est channel: Low Level (dBuV/m) 60.54 59.83 51.60 51.62 est channel: Mide Level (dBuV/m) 59.68	est channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00 dle channel Limit Line (dBuV/m) 74.00	[dB] 13.46 14.17 2.40 2.38 Margin [dB] 14.32	Vertical Horizontal Vertical Horizontal Polarization Vertical	Peak Peak Averag Averag Trace Peak Peak
(MHz) 11476.00 11476.00 11476.00 11476.00 Frequency (MHz) 11580.00 11580.00	(dBuV/m) 53.40 52.69 44.46 44.48 Read Level (dBuV/m) 52.86 52.38	Factor (dB) 7.14 7.14 7.14 7.14 7.14 Te Factor (dB) 6.82 6.82	est channel: Low Level (dBuV/m) 60.54 59.83 51.60 51.62 est channel: Mid Level (dBuV/m) 59.68 59.20	est channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00 dle channel Limit Line (dBuV/m) 74.00 74.00	[dB] 13.46 14.17 2.40 2.38 Margin [dB] 14.32 14.80	Vertical Horizontal Vertical Horizontal Polarization Vertical Horizontal	Peak Peak Averag Averag Trace Peak Peak Averag
(MHz) 11476.00 11476.00 11476.00 11476.00 Erequency (MHz) 11580.00 11580.00 11580.00	(dBuV/m) 53.40 52.69 44.46 44.48 Read Level (dBuV/m) 52.86 52.38 44.14	Factor (dB) 7.14 7.14 7.14 7.14 7.14 Factor (dB) 6.82 6.82 6.82 6.82 6.82	est channel: Low Level (dBuV/m) 60.54 59.83 51.60 51.62 est channel: Mide Level (dBuV/m) 59.68 59.20 50.96 50.87	est channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00 dle channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00	[dB] 13.46 14.17 2.40 2.38 Margin [dB] 14.32 14.80 3.04	Vertical Horizontal Vertical Horizontal Polarization Vertical Horizontal Vertical Vertical Vertical	Peak Peak Averag Averag Trace Peak Peak
(MHz) 11476.00 11476.00 11476.00 11476.00 Erequency (MHz) 11580.00 11580.00 11580.00	(dBuV/m) 53.40 52.69 44.46 44.48 Read Level (dBuV/m) 52.86 52.38 44.14	Factor (dB) 7.14 7.14 7.14 7.14 7.14 Factor (dB) 6.82 6.82 6.82 6.82 6.82	est channel: Low Level (dBuV/m) 60.54 59.83 51.60 51.62 est channel: Mid Level (dBuV/m) 59.68 59.20 50.96	est channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00 dle channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00	[dB] 13.46 14.17 2.40 2.38 Margin [dB] 14.32 14.80 3.04	Vertical Horizontal Vertical Horizontal Polarization Vertical Horizontal Vertical Vertical Vertical	Peak Peak Averag Averag Trace Peak Peak Averag
(MHz) 11476.00 11476.00 11476.00 11476.00 Frequency (MHz) 11580.00 11580.00 11580.00 Frequency Frequency	(dBuV/m) 53.40 52.69 44.46 44.48 Read Level (dBuV/m) 52.86 52.38 44.14 44.05 Read Level	Factor (dB) 7.14 7.14 7.14 7.14 7.14 Factor (dB) 6.82 6.82 6.82 6.82 6.82 7e	est channel: Low Level (dBuV/m) 60.54 59.83 51.60 51.62 est channel: Mide (dBuV/m) 59.68 59.20 50.96 50.96 50.87 st channel: High Level	est channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00 dle channel Limit Line (dBuV/m) 74.00 74.00 74.00 54.00 54.00 s4.00 s4.00 0 54.00 0 54.00 0 54.00 0 0 0 0 0 0 0 0 0 0 0 0	[dB] 13.46 14.17 2.40 2.38 Margin [dB] 14.32 14.80 3.04 3.13 Margin	Vertical Horizontal Vertical Horizontal Polarization Vertical Horizontal Vertical Horizontal	Peak Peak Averag Averag Trace Peak Averag Averag
(MHz) 11476.00 11476.00 11476.00 11476.00 Frequency (MHz) 11580.00 11580.00 11580.00 Frequency (MHz)	(dBuV/m) 53.40 52.69 44.46 44.48 Read Level (dBuV/m) 52.86 52.38 44.14 44.05 Read Level (dBuV/m)	Factor (dB) 7.14 7.14 7.14 7.14 7.14 Factor (dB) 6.82 6.82 6.82 6.82 6.82 6.82 7e Factor (dB)	est channel: Low Level (dBuV/m) 60.54 59.83 51.60 51.62 est channel: Mide Level (dBuV/m) 59.68 59.20 50.96 50.87 st channel: High Level (dBuV/m)	est channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00 dle channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00 est channel Limit Line (dBuV/m)	[dB] 13.46 14.17 2.40 2.38 Margin [dB] 14.32 14.80 3.04 3.13 Margin [dB]	Vertical Horizontal Vertical Horizontal Polarization Vertical Horizontal Vertical Horizontal Polarization	Peak Peak Averag Averag Peak Averag Averag Trace
(MHz) 11476.00 11476.00 11476.00 11476.00 11476.00 Frequency (MHz) 11580.00 11580.00 11580.00 Frequency (MHz) 11678.00	(dBuV/m) 53.40 52.69 44.46 44.48 Read Level (dBuV/m) 52.86 52.38 44.14 44.05 Read Level (dBuV/m) 52.73	Factor (dB) 7.14 7.14 7.14 7.14 7.14 Factor (dB) 6.82 6.82 6.82 6.82 6.82 6.82 7 re Factor (dB) 7.29	est channel: Low Level (dBuV/m) 60.54 59.83 51.60 51.62 est channel: Mide (dBuV/m) 59.68 59.20 50.96 50.96 50.87 st channel: High Level (dBuV/m) 60.02	est channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00 dle channel Limit Line (dBuV/m) 74.00 74.00 54.00 54.00 s4.00 0 54.00 10 10 10 10 10 10 10 10 10	[dB] 13.46 14.17 2.40 2.38 Margin [dB] 14.32 14.80 3.04 3.13 Margin [dB] 13.98	Vertical Horizontal Vertical Horizontal Polarization Vertical Horizontal Vertical Horizontal Polarization	Peak Peak Averag Averag Trace

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

JianYan Testing Group Shenzhen Co., Ltd.

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6.8 Frequency stability

Test Requirement:	FCC Part15 E Section 15.407 (g)
Limit:	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
Test setup:	NS1228 CMW222 <pcmw222< p=""> CMW222 <pcmw222< p=""> <pcmw222< th=""></pcmw222<></pcmw222<></pcmw222<>
Test procedure:	 The EUT is installed in an environment test chamber with external power source. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT. A sufficient stabilization period at each temperature is used prior to each frequency measurement. When temperature is stabled, measure the frequency stability. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to Appendix A - 5.2 GHz & Appendix A - 5.8 GHz