

# FCC REPORT

**Applicant:** Autel Robotics Co., Ltd

**Address of Applicant:** 9th Floor, Bldg.B1, Zhiyuan, 1001 Xueyuan Rd., Xili, Nanshan, Shenzhen, China

## Equipment Under Test (EUT)

**Product Name:** Dragon Fish Remote Control

**Model No.:** DFRC-1

**Trade Mark:** AUTEL

**FCC ID:** 2AGNTDFRC2409A

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B

**Date of sample receipt:** 24 Aug., 2020

**Date of Test:** 25 Aug., to 27 Oct., 2020

**Date of report issued:** 04 Nov., 2020

**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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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**2 Version**

Version No.	Date	Description
00	04 Nov., 2020	Original

**Tested by:**Mike Ou  
Test Engineer**Date:**

04 Nov., 2020

**Reviewed by:**Winner Zhang  
Project Engineer**Date:**

04 Nov., 2020

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## 4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass
<b>Remark:</b>		
1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: The EUT not applicable of the test item.		
Test Method:	ANSI C63.4:2014	

## 5 General Information

### 5.1 Client Information

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

### 5.2 General Description of E.U.T.

Product Name:	Dragon Fish Remote Control
Model No.:	DFRC-1
Power supply:	Rechargeable Li-ion Battery DC11.4V-8.2Ah
AC adapter:	Model: DF_CHARGER Input: AC100-240V, 50/60Hz, 4.0A Output 1/2/3: DC 26.4V, 7.0A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

### 5.3 Test Mode

Operating mode	Detail description
Full Load mode	Keep the EUT in Charging + HDMI(Output) + USB load mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

## 5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

## 5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	Flat Panel Monitor	P2419H	CN-005R9-QDC00-95D-9P9I-A03	N/A

## 5.6 Related Submittal(s) / Grant (s)

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

## 5.7 Description of Cable Used

Cable Type	Description	Length	From	To
Detached HDMI Cable	Shielding	1.22m	EUT	Monitor

## 5.8 Additions to, deviations, or exclusions from the method

No

## 5.9 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 of 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 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.10 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

## 5.11 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	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2020	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021

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	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2021
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	Version: 6.110919b		

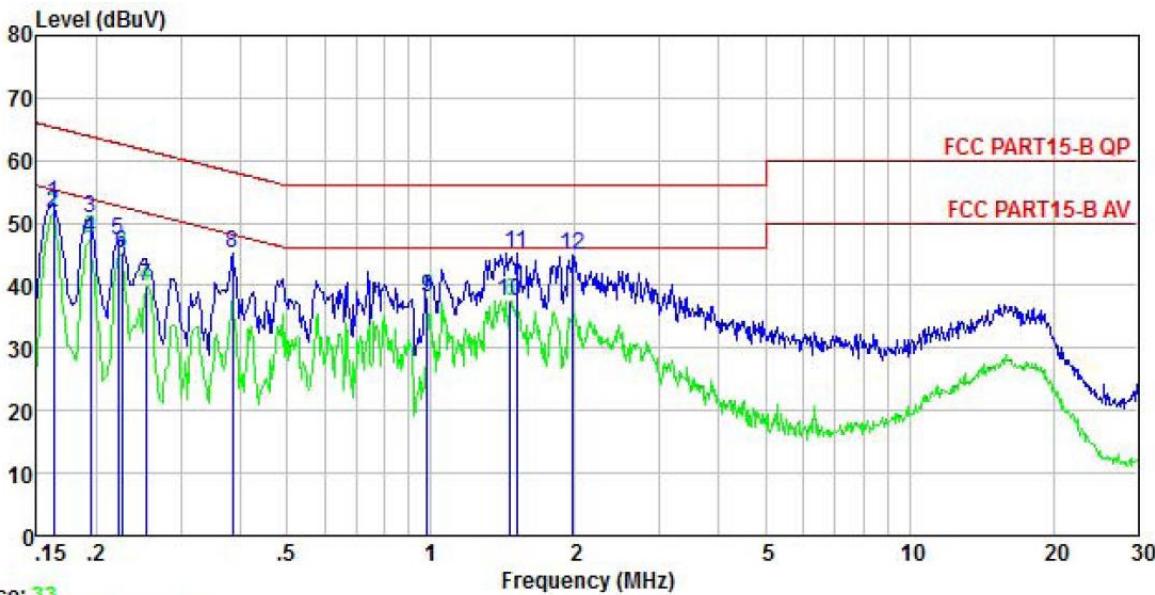
## 6 Test results and Measurement Data

### 6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)		Limit (dB $\mu$ V)
			Quasi-peak      Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
0.5-30		60	50
* Decreases with the logarithm of the frequency.			
Test setup:	<p>Reference Plane</p> <p>LISN</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>Test table/Insulation plane</p> <p>80cm</p> <p>EMI Receiver</p> <p>Filter</p> <p>AC power</p> <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test procedure	<ol style="list-style-type: none"> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). They provide a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4(latest version) on conducted measurement.</li> </ol>		
Test Instruments:	Refer to section 5.11 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

**Measurement data:**

<b>Product name:</b>	Dragon Fish Remote Control		<b>Product model:</b>	DFRC-1
<b>Test by:</b>	Mike		<b>Test mode:</b>	Full Load mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz		<b>Phase:</b>	Line
<b>Test voltage:</b>	AC 120 V/60 Hz		<b>Environment:</b>	Temp: 22.5°C Huni: 55%

Trace: 33

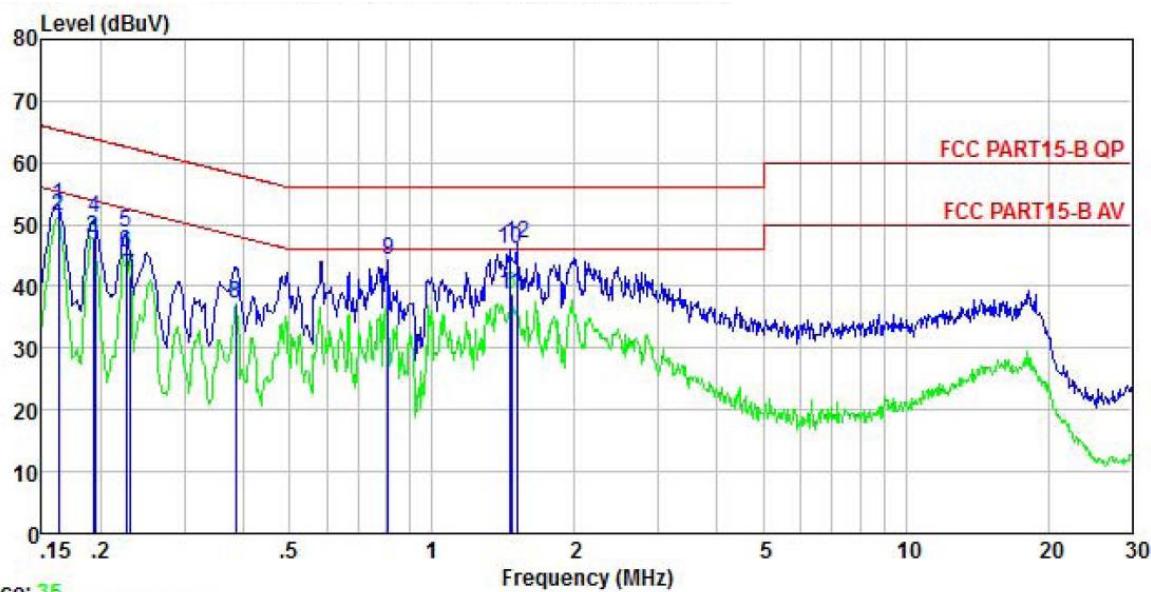
  

Freq	Read Level	LISM Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.162	43.06	-0.58	-0.08	10.77	53.17	65.34	-12.17 QP
2	0.162	41.69	-0.58	-0.08	10.77	51.80	55.34	-3.54 Average
3	0.194	40.62	-0.59	-0.15	10.76	50.64	63.84	-13.20 QP
4	0.194	37.65	-0.59	-0.15	10.76	47.67	53.84	-6.17 Average
5	0.222	37.29	-0.58	-0.19	10.76	47.28	62.74	-15.46 QP
6	0.226	35.08	-0.58	-0.19	10.75	45.06	52.61	-7.55 Average
7	0.253	30.02	-0.57	-0.22	10.75	39.98	51.64	-11.66 Average
8	0.385	34.65	-0.49	0.33	10.72	45.21	58.17	-12.96 QP
9	0.984	27.40	-0.62	0.42	10.87	38.07	46.00	-7.93 Average
10	1.464	27.24	-0.56	0.03	10.92	37.63	46.00	-8.37 Average
11	1.511	34.82	-0.55	-0.01	10.92	45.18	56.00	-10.82 QP
12	1.980	34.58	-0.51	-0.31	10.96	44.72	56.00	-11.28 QP

**Notes:**

- An initial pre-scan was performed on the line and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level = Receiver Read level + LISN Factor + Cable Loss.

<b>Product name:</b>	Dragon Fish Remote Control	<b>Product model:</b>	DFRC-1
<b>Test by:</b>	Mike	<b>Test mode:</b>	Full Load mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz	<b>Phase:</b>	Neutral
<b>Test voltage:</b>	AC 120 V/60 Hz	<b>Environment:</b>	Temp: 22.5°C Huni: 55%



Freq MHz	Read Level dBuV	LISN Factor dB	Aux Factor dB	Cable Loss dB	Limit Line dBuV	Over Line dB	Remark
	MHz	dBuV	dB	dB			
1	0.162	43.00	-0.68	0.01	10.77	53.10	65.34 -12.24 QP
2	0.162	41.41	-0.68	0.01	10.77	51.51	55.34 -3.83 Average
3	0.192	37.76	-0.67	0.00	10.76	47.85	53.93 -6.08 Average
4	0.194	41.03	-0.67	0.00	10.76	51.12	63.84 -12.72 QP
5	0.226	38.69	-0.67	0.00	10.75	48.77	62.61 -13.84 QP
6	0.226	35.24	-0.67	0.00	10.75	45.32	52.61 -7.29 Average
7	0.230	31.64	-0.67	0.00	10.75	41.72	52.44 -10.72 Average
8	0.385	27.27	-0.64	-0.05	10.72	37.30	48.17 -10.87 Average
9	0.809	34.10	-0.66	0.06	10.81	44.31	56.00 -11.69 QP
10	1.456	35.75	-0.70	0.13	10.92	46.10	56.00 -9.90 QP
11	1.472	28.43	-0.70	0.13	10.92	38.78	46.00 -7.22 Average
12	1.511	36.57	-0.70	0.13	10.92	46.92	56.00 -9.08 QP

**Notes:**

- An initial pre-scan was performed on the line and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level =Receiver Read level + LISN Factor + Cable Loss.

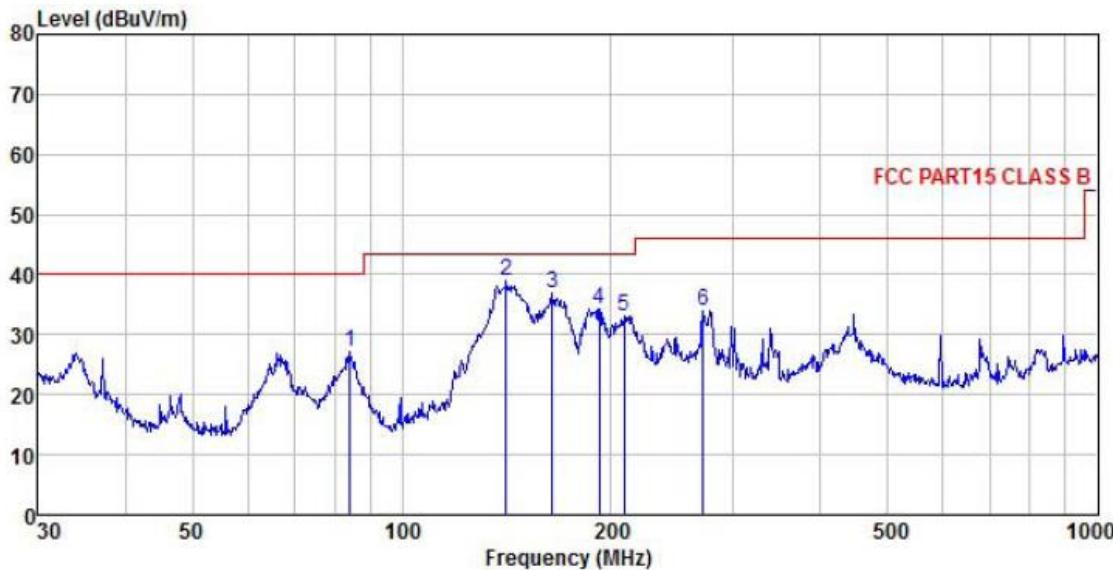
## 6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109													
Test Frequency Range:	30MHz to 6000MHz													
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)													
Receiver setup:	Frequency	Detector	RBW	VBW	Remark									
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value									
	Above 1GHz	Peak	1MHz	3MHz	Peak Value									
Limit:	RMS	1MHz	3MHz	Average Value										
	Frequency	Limit (dBuV/m @3m)		Remark										
	30MHz-88MHz	40.0		Quasi-peak Value										
	88MHz-216MHz	43.5		Quasi-peak Value										
	216MHz-960MHz	46.0		Quasi-peak Value										
	960MHz-1GHz	54.0		Quasi-peak Value										
Test setup:	Above 1GHz													
	Below 1GHz													
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> </ol>													

	<ol style="list-style-type: none"><li>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 table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>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.</li></ol>
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz were the noise floor , which were not recorded

**Measurement Data:****Below 1GHz:**

<b>Product Name:</b>	Dragon Fish Remote Control	<b>Product Model:</b>	DFRC-1
<b>Test By:</b>	Mike	<b>Test mode:</b>	Full Load mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

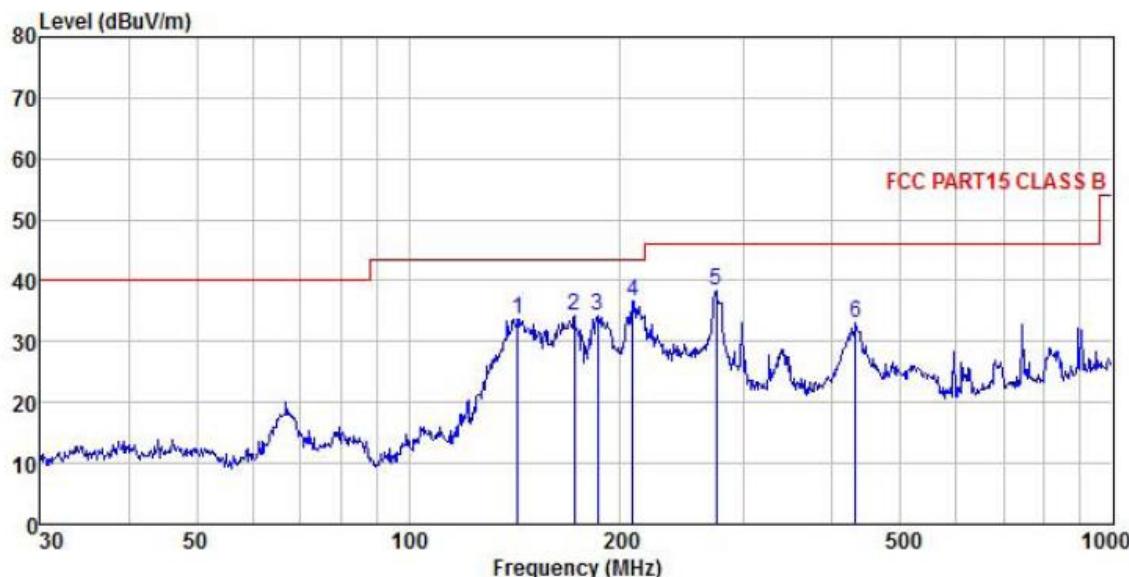


Freq MHz	ReadAntenna		Cable	Aux	Preamp	Limit Line dBuV/m	Over Line dB	Remark
	Freq MHz	Level dBuV	Level Factor	Cable Loss dB	Preamplifier Factor dB			
1 84.110	44.41	11.81	0.48	0.00	29.61	27.09	40.00	-12.91 QP
2 141.330	53.88	13.83	0.60	0.00	29.27	39.04	43.50	-4.46 QP
3 164.330	49.71	15.59	0.64	0.00	29.10	36.84	43.50	-6.66 QP
4 192.419	44.87	17.60	0.71	0.00	28.88	34.30	43.50	-9.20 QP
5 208.580	42.90	18.34	0.73	0.00	28.78	33.19	43.50	-10.31 QP
6 271.325	43.04	18.59	0.82	0.00	28.50	33.95	46.00	-12.05 QP

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

<b>Product Name:</b>	Dragon Fish Remote Control	<b>Product Model:</b>	DFRC-1
<b>Test By:</b>	Mike	<b>Test mode:</b>	Full Load mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%



Freq MHz	Read	Antenna	Cable	Aux	Preampl	Limit Level dBuV/m	Over Line dBuV/m	Over Limit dB	Remark
	Level dBuV	Factor	Loss dB	Factor	Factor				
1 142.824	48.56	13.86	0.60	0.00	29.26	33.76	43.50	-9.74	QP
2 171.995	45.86	16.61	0.66	0.00	29.03	34.10	43.50	-9.40	QP
3 185.788	45.33	17.23	0.69	0.00	28.93	34.32	43.50	-9.18	QP
4 207.850	46.31	18.33	0.73	0.00	28.78	36.59	43.50	-6.91	QP
5 273.234	47.52	18.60	0.83	0.00	28.50	38.45	46.00	-7.55	QP
6 431.032	41.61	19.16	1.03	0.00	28.84	32.96	46.00	-13.04	QP

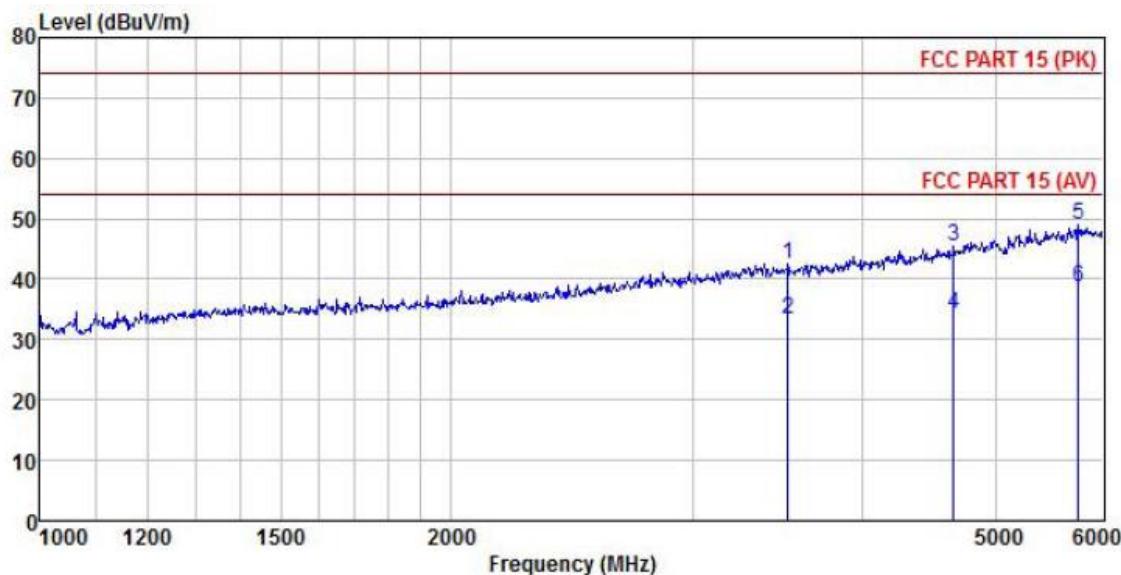
**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

## Above 1GHz:

<b>Product Name:</b>	Dragon Fish Remote Control				<b>Product Model:</b>	DFRC-1																																																																								
<b>Test By:</b>	Mike				<b>Test mode:</b>	Full Load mode																																																																								
<b>Test Frequency:</b>	1 GHz ~ 6 GHz				<b>Polarization:</b>	Vertical																																																																								
<b>Test Voltage:</b>	AC 120/60Hz				<b>Environment:</b>	Temp: 24°C Huni: 57%																																																																								
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<b>Product Name:</b>	Dragon Fish Remote Control	<b>Product Model:</b>	DFRC-1
<b>Test By:</b>	Mike	<b>Test mode:</b>	Full Load mode
<b>Test Frequency:</b>	1 GHz ~ 6 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%



Freq	Read	Antenna	Cable	Aux	Preamp	Limit	Over	Line	Limit	Over
	Freq	Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	dB
1	3524.036	47.71	28.74	5.33	2.20	41.47	42.51	74.00	-31.49	Peak
2	3524.036	38.53	28.74	5.33	2.20	41.47	33.33	54.00	-20.67	Average
3	4660.494	48.24	30.46	6.27	2.40	42.05	45.32	74.00	-28.68	Peak
4	4660.494	37.12	30.46	6.27	2.40	42.05	34.20	54.00	-19.80	Average
5	5747.456	48.77	32.40	7.11	2.73	41.96	49.05	74.00	-24.95	Peak
6	5747.456	38.33	32.40	7.11	2.73	41.96	38.61	54.00	-15.39	Average

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.