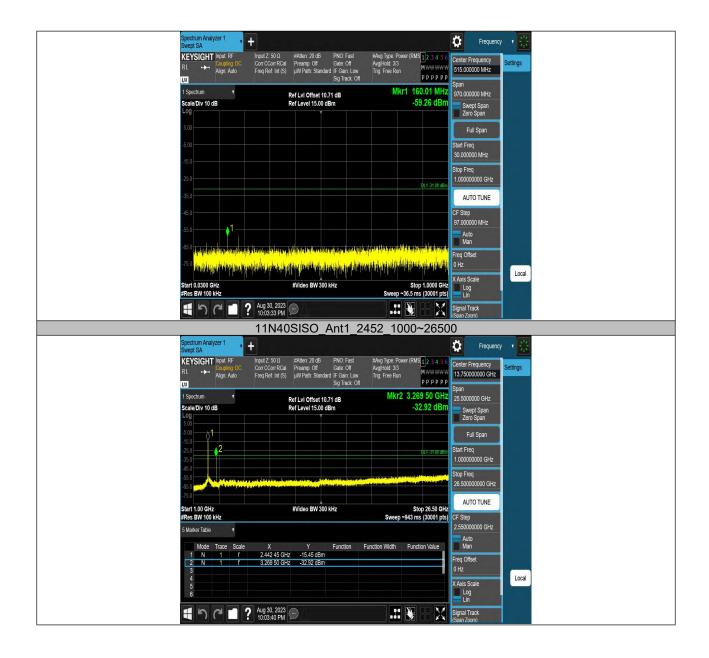


LOP-FTR015 1.0 55 / 92

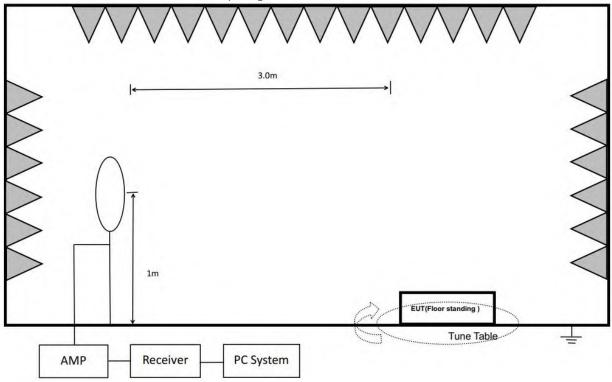


LOP-FTR015 1.0 56 / 92

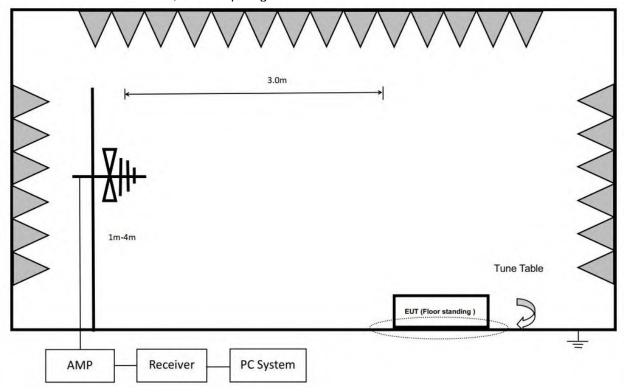
### 13. Radiated Emission

### 13.1. Block diagram of test setup

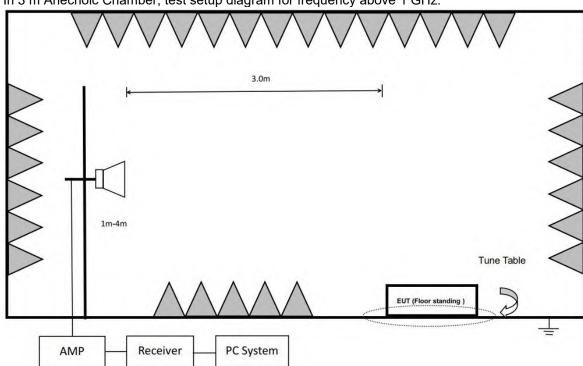
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



LOP-FTR015 1.0 57 / 92



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:

Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

### 13.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

<sup>&</sup>lt;sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

LOP-FTR015 1.0 58 / 92

<sup>&</sup>lt;sup>2</sup>Above 38.6

(2) FCC 15.209 Limit.

Frequency	Distance	Field Strengths Limit		
MHz	Meters	μV/m	dB(μV)/m	
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)	
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)	
1.705 ~ 30.0	30	30	29.54	
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216~960	3	200	46.0	
960~1000	3	500	54.0	
Above 1000	3	74.0 dB(μV)/r 54.0 dB(μV)/m		

Note: (1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

About Restricted bands of operation please refer to FCC § 15.205(a).

LOP-FTR015 1.0 59 / 92

#### 13.3. Test Procedure

Below 30 MHz:

The setting of the spectrum Analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT and all cables shall be insulated, if required, from the ground plane by up to 12mm of insulating meterial.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of 1 meter height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

LOP-FTR015 1.0 60 / 92

#### Below 1 GHz and above 30 MHz:

The setting of the spectrum Analyzer

RBW VBW	120 kHz 300 kHz
Sweep	Auto
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT and all cables shall be insulated, if required, from the ground plane by up to 12mm of insulating meterial.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

LOP-FTR015 1.0 61 / 92

#### Above 1 GHz:

RBW	1 MHz
1VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
  - 3. The EUT was placed on a turntable with 1.5m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for AVG measurements. For the Duty Cycle please refer to clause 8.1.ON TIME AND DUTY CYCLE.
- 7. Restriction band: Investigated frequency range from 2310 MHz to 2430 MHz and 2445 MHz to 2500 MHz, 2310 MHz to 2450 MHz and 2425 MHz to 2500MHz.

All restriction band should comply with 15.209, other emission should be at least 20 dB below the fundamental.

- Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.
  - Note 2: The EUT does not support simultaneous transmission.
- Note 3: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

LOP-FTR015 1.0 62 / 92

Report No.:JCF230725201-003

#### 13.4. Results

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz, so the final test was performed with frequency range from 30 MHz to 26 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 11B 2412 MH mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

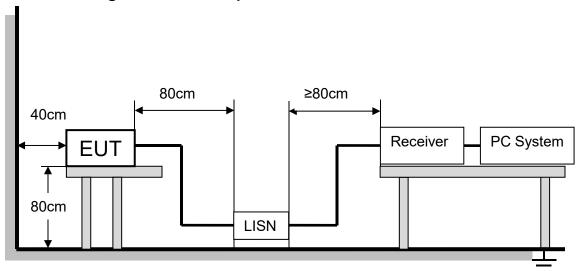
#### 13.5. Original test data

Below 1 GHz and above 30 MHz test data Refer to appendix A Above 1 GHz test data Refer to appendix B

LOP-FTR015 1.0 63 / 92

#### 14. AC Power Line Conducted Emissions

#### 14.1. Block diagram of test setup



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

#### 14.2. **Limits**

Please refer to CFR 47 FCC § 15.207 (a).

Frequency (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note 1: \* Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

#### 14.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

LOP-FTR015 1.0 64 / 92

Report No.:JCF230725201-003

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

#### 14.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

#### 14.5. Original test data

Refer to appendix C

LOP-FTR015 1.0 65 / 92

### 15. Antenna Requirements

### 15.1. Applicable Requirements

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 15.2. Result

The antenna used for this product is FPC antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 2.71 dBi.

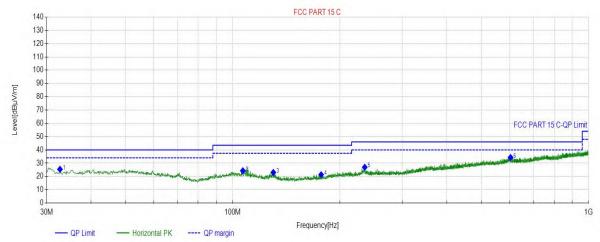
LOP-FTR015 1.0 66 / 92

# APPENDIX A – Radiated Emission Below 1GHz Test Data Test Report

Project Information						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%			
Model:	SQUAPLLO-TRVOR	SN:				
Mode:	11B_2412	Voltage:	AC 120V/60Hz			
Customer:		Engineer:	Roger			
Remark:						

Start of Test: 2023-08-25 11:00:25

#### **Test Graph**



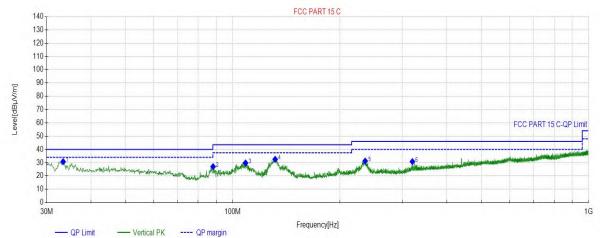
Final	Final Data List							
NO.	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	QP Margin (dB)	Height (cm)	Angle (°)	Polarity
1	32.7163	19.47	25.44	40.00	14.56	100	198	Horizontal
2	106.8317	20.37	24.32	43.50	19.18	100	27	Horizontal
3	130.1140	17.49	23.02	43.50	20.48	100	291	Horizontal
4	177.2607	18.29	21.36	43.50	22.14	100	126	Horizontal
5	235.0785	21.18	26.95	46.00	19.05	100	159	Horizontal
6	603.9094	30.24	34.30	46.00	11.70	100	102	Horizontal

LOP-FTR015 1.0 67 / 92

Project Information						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%			
Model:	SQUAPLLO-TRVOR	SN:				
Mode:	11B_2412	Voltage:	AC 120V/60Hz			
Customer:		Engineer:	Roger			
Remark:						

Start of Test: 2023-08-25 11:01:09

### **Test Graph**



Final	Final Data List							
NO.	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	QP Margin (dB)	Height (cm)	Angle (°)	Polarity
1	33.3953	19.64	30.77	40.00	9.23	100	138	Vertical
2	88.1088	17.91	27.05	43.50	16.45	100	50	Vertical
3	108.6749	20.26	29.79	43.50	13.71	100	186	Vertical
4	131.6662	17.43	32.57	43.50	10.93	100	91	Vertical
5	235.7576	21.20	31.25	46.00	14.75	100	68	Vertical
6	319.9620	22.91	30.83	46.00	15.17	100	209	Vertical

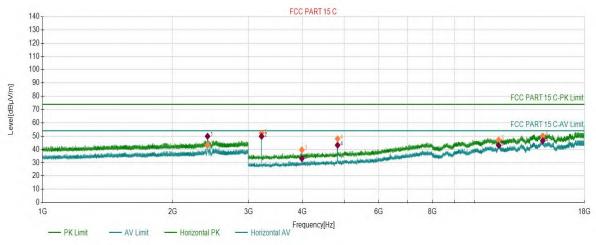
LOP-FTR015 1.0 68 / 92

## APPENDIX B – Radiated Emission Above 1GHz Test Data Test Report

Project Information						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%			
Model:	SQUAPLLO-TRVOR	SN:				
Mode:	11B_2412	Voltage:	AC 120V/60Hz			
Customer:	Engineer: Roger					
Remark:	Power Set: 40					

Start of Test: 2023-08-22 15:54:15

#### **Test Graph**



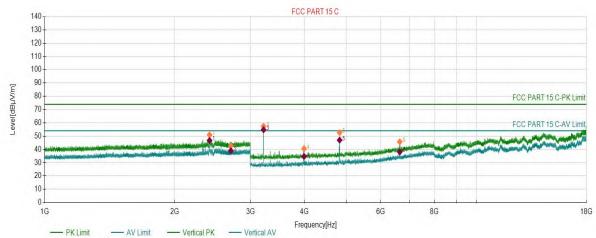
PK Fi	nal Data List							
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2410.7705	7.14	43.32	74.00	30.68	150	58	Horizontal
2	3215.2608	-17.02	52.24	74.00	21.76	150	359	Horizontal
3	3986.2993	-14.35	39.67	74.00	34.33	150	359	Horizontal
4	4823.3412	-11.10	48.02	74.00	25.98	150	74	Horizontal
5	11389.9195	7.00	47.15	74.00	26.85	150	317	Horizontal
6	14408.0704	13.02	50.11	74.00	23.89	150	360	Horizontal
AV Fi	nal Data List							
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2410.7705	7.14	49.89	54.00	4.11	150	58	Horizontal
2	3215.2608	-17.02	49.85	54.00	4.15	150	359	Horizontal
3	3986.2993	-14.35	33.20	54.00	20.80	150	359	Horizontal
4	4823.3412	-11.10	43.20	54.00	10.80	150	74	Horizontal
5	11389.9195	7.00	43.02	54.00	10.98	150	317	Horizontal
6	14408.0704	13.02	46.54	54.00	7.46	150	360	Horizontal

LOP-FTR015 1.0 69 / 92

	Project Inform	mation						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%					
Model:	SQUAPLLO-TRVOR	SN:						
Mode:	11B_2412	Voltage:	AC 120V/60Hz					
Customer:		Engineer:	Roger					
Remark:	Po	Power Set : 40						

Start of Test: 2023-08-22 15:55:47

### **Test Graph**



PK Fi	PK Final Data List										
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity			
1	2410.3705	7.14	50.95	74.00	23.05	150	73	Vertical			
2	2700.6850	7.00	42.70	74.00	31.30	150	292	Vertical			
3	3215.2608	-17.02	57.45	74.00	16.55	150	76	Vertical			
4	3990.0495	-14.33	40.53	74.00	33.47	150	64	Vertical			
5	4823.9202	-11.09	52.63	74.00	21.37	180.4	88.7	Vertical			
6	6648.1824	-4.84	45.72	74.00	28.28	150	86	Vertical			

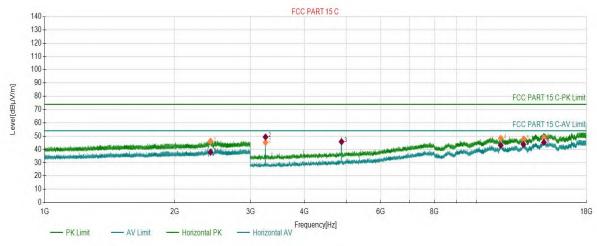
AV Fi	AV Final Data List									
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity		
1	2410.3705	7.14	46.76	54.00	7.24	150	73	Vertical		
2	2700.6850	7.00	39.05	54.00	14.95	150	292	Vertical		
3	3215.2608	-17.02	54.83			150	76	Vertical		
4	3990.0495	-14.33	34.71	54.00	19.29	150	64	Vertical		
5	4823.9202	-11.09	47.02	54.00	6.98	180.4	88.7	Vertical		
6	6648.1824	-4.84	38.11	54.00	15.89	150	86	Vertical		

LOP-FTR015 1.0 70 / 92

	Project Inforn	nation						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%					
Model:	SQUAPLLO-TRVOR	SN:						
Mode:	11B_2437	Voltage:	AC 120V/60Hz					
Customer:		Engineer:	Roger					
Remark:	Por	Power Set : 40						

Start of Test: 2023-08-22 16:04:41

### **Test Graph**



PK Fi	nal Data List							
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	2423.3712	7.20	46.23	74.00	27.77	150	219	Horizontal
2	3249.0125	-16.95	45.25	74.00	28.75	150	0	Horizontal
3	4873.5937	-10.90	45.72	74.00	28.28	150	76	Horizontal
4	11392.9196	7.05	48.34	74.00	25.66	150	325	Horizontal
5	12857.7429	8.59	47.73	74.00	26.27	150	32	Horizontal
6	14338.3169	12.78	48.71	74.00	25.29	150	133	Horizontal

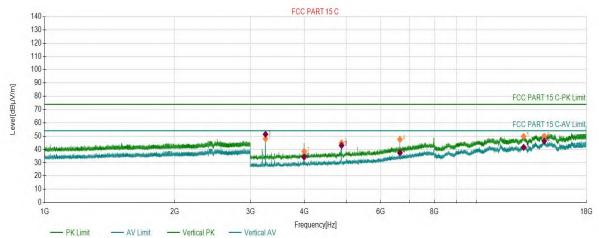
AV Fi	AV Final Data List											
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity				
1	2423.3712	7.20	37.83	54.00	16.17	150	219	Horizontal				
2	3249.0125	-16.95	49.37	54.00	4.63	150	0	Horizontal				
3	4873.5937	-10.90	45.81	54.00	8.19	150	76	Horizontal				
4	11392.9196	7.05	43.07	54.00	10.93	150	325	Horizontal				
5	12857.7429	8.59	43.80	54.00	10.20	150	32	Horizontal				
6	14338.3169	12.78	45.34	54.00	8.66	150	133	Horizontal				

LOP-FTR015 1.0 71 / 92

	Project Inform	mation						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%					
Model:	SQUAPLLO-TRVOR	SN:						
Mode:	11B_2437	Voltage:	AC 120V/60Hz					
Customer:		Engineer:	Roger					
Remark:	Po	Power Set : 40						

Start of Test: 2023-08-22 16:06:11

### **Test Graph**



PK Fi	nal Data List							
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	3249.0125	-16.95	47.99	74.00	26.01	150	68	Vertical
2	3991.5496	-14.32	38.60	74.00	35.40	150	46	Vertical
3	4873.5937	-10.90	44.91	74.00	29.09	150	80	Vertical
4	6654.1827	-4.83	47.59	74.00	26.41	150	102	Vertical
5	12865.2433	8.59	49.76	74.00	24.24	150	280	Vertical
6	14364.5682	12.88	49.89	74.00	24.11	150	338	Vertical

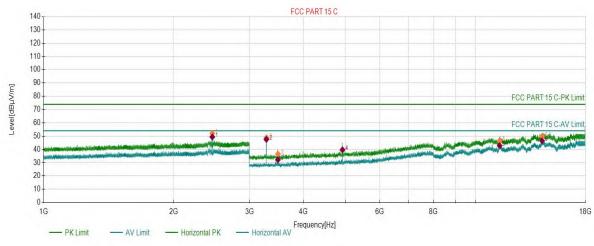
AV Fi	AV Final Data List										
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity			
1	3249.0125	-16.95	51.41	54.00	2.59	150	68	Vertical			
2	3991.5496	-14.32	34.22	54.00	19.78	150	46	Vertical			
3	4873.5937	-10.90	42.98	54.00	11.02	150	80	Vertical			
4	6654.1827	-4.83	37.39	54.00	16.61	150	102	Vertical			
5	12865.2433	8.59	41.53	54.00	12.47	150	280	Vertical			
6	14364.5682	12.88	46.41	54.00	7.59	150	338	Vertical			

LOP-FTR015 1.0 72 / 92

	Project Inform	mation						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%					
Model:	SQUAPLLO-TRVOR	SN:						
Mode:	11B_2462	Voltage:	AC 120V/60Hz					
Customer:		Engineer:	Roger					
Remark:	Po	Power Set : 40						

Start of Test: 2023-08-22 16:13:36

### **Test Graph**



PK Fi	PK Final Data List										
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity			
1	2459.5730	7.35	52.18	74.00	21.82	150	68	Horizontal			
2	3282.0141	-16.89	48.76	74.00	25.24	150	358	Horizontal			
3	3489.7745	-15.81	36.55	74.00	37.45	150	0	Horizontal			
4	4923.8462	-10.67	39.77	74.00	34.23	150	79	Horizontal			
5	11385.4193	6.94	46.49	74.00	27.51	150	135	Horizontal			
6	14276.0638	12.48	49.99	74.00	24.01	150	102	Horizontal			

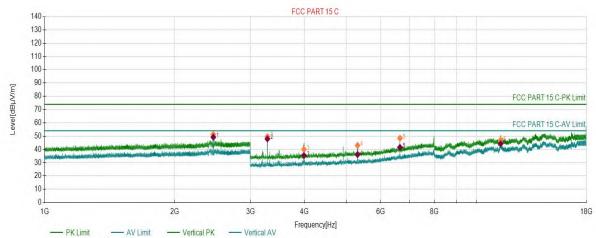
AV Fi	AV Final Data List										
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity			
1	2459.5730	7.35	49.41	54.00	4.59	150	68	Horizontal			
2	3282.0141	-16.89	47.54	54.00	6.46	150	358	Horizontal			
3	3489.7745	-15.81	32.19	54.00	21.81	150	0	Horizontal			
4	4923.8462	-10.67	39.61	54.00	14.39	150	79	Horizontal			
5	11385.4193	6.94	42.80	54.00	11.20	150	135	Horizontal			
6	14276.0638	12.48	46.50	54.00	7.50	150	102	Horizontal			

LOP-FTR015 1.0 73 / 92

	Project Information								
EUT:	Travel Apoll Fitness Board	Environment:	<b>23</b> ℃ <b>56</b> %						
Model:	SQUAPLLO-TRVOR	SN:							
Mode:	11B_2462	Voltage:	AC 120V/60Hz						
Customer:	Engineer: Roger								
Remark:	Po	wer Set : 50							

Start of Test: 2023-08-22 16:15:07

### **Test Graph**



PK Fi	PK Final Data List									
NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity		
1	2459.4730	7.35	51.33	74.00	22.67	150	346	Vertical		
2	3282.0141	-16.89	49.67	74.00	24.33	150	61	Vertical		
3	3989.2995	-14.34	40.00	74.00	34.00	150	326	Vertical		
4	5308.6154	-9.54	43.02	74.00	30.98	150	270	Vertical		
5	6654.9327	-4.83	48.40	74.00	25.60	150	96	Vertical		
6	11383.1692	6.90	47.02	74.00	26.98	150	281	Vertical		

AV Fi	AV Final Data List									
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity		
1	2459.4730	7.35	49.21	54.00	4.79	150	346	Vertical		
2	3282.0141	-16.89	47.90	54.00	6.10	150	61	Vertical		
3	3989.2995	-14.34	35.31	54.00	18.69	150	326	Vertical		
4	5308.6154	-9.54	36.11	54.00	17.89	150	270	Vertical		
5	6654.9327	-4.83	41.57	54.00	12.43	150	96	Vertical		
6	11383.1692	6.90	44.24	54.00	9.76	150	281	Vertical		

LOP-FTR015 1.0 74 / 92

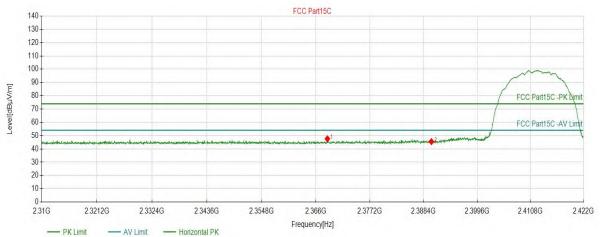
#### **Restriction Band Emission**

# est Report

	Project Information								
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%						
Model:	SQUAPLLO-TRVOR	SN:							
Mode:	11B_2412	Voltage:	AC 120V/60Hz						
Customer:	Engineer: Roger								
Remark:	Po	wer Set : 40							

Start of Test: 2023-08-22 15:52:00

### **Test Graph**



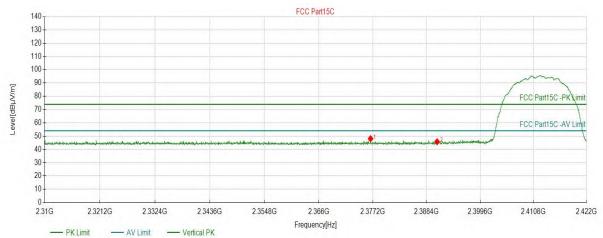
Suspe	Suspected Data List								
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity
1	2368.4088	47.64	5.58	74.00	26.36	150	89	PK	Horizont
2	2390.0320	45.50	5.61	74.00	28.50	150	264	PK	Horizont

LOP-FTR015 1.0 75 / 92

	Project Information								
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%						
Model:	SQUAPLLO-TRVOR	SN:							
Mode:	11B_2412	Voltage:	AC 120V/60Hz						
Customer:	Engineer: Roger								
Remark:	Po	wer Set: 40							

Start of Test: 2023-08-22 15:52:44

### **Test Graph**



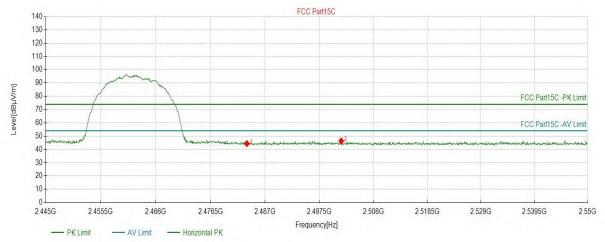
Suspe	Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity	
1	2376.7369	48.10	5.59	74.00	25.90	150	81	PK	Vertical	
2	2390.5922	45.80	5.61	74.00	28.20	150	293	PK	Vertical	

LOP-FTR015 1.0 76 / 92

	Project Information								
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%						
Model:	SQUAPLLO-TRVOR	SN:							
Mode:	11B_2462	Voltage:	AC 120V/60Hz						
Customer:	Engineer: Roger								
Remark:	Po	wer Set : 50							

Start of Test: 2023-08-24 20:32:04

### **Test Graph**



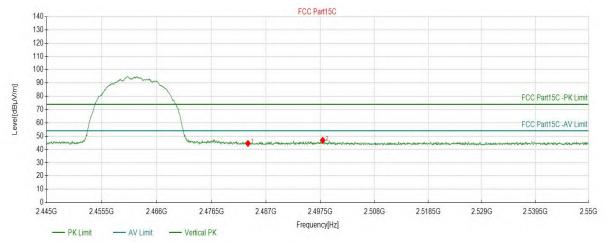
Suspe	Suspected Data List								
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity
1	2483.5018	44.41	6.07	74.00	29.59	150	345	PK	Horizont
2	2501.7284	46.42	6.16	74.00	27.58	150	7	PK	Horizont

LOP-FTR015 1.0 77 / 92

	Project Information								
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%						
Model:	SQUAPLLO-TRVOR	SN:							
Mode:	11B_2462	Voltage:	AC 120V/60Hz						
Customer:	Engineer: Roger								
Remark:	Po	wer Set : 50							

Start of Test: 2023-08-24 20:32:48

### **Test Graph**



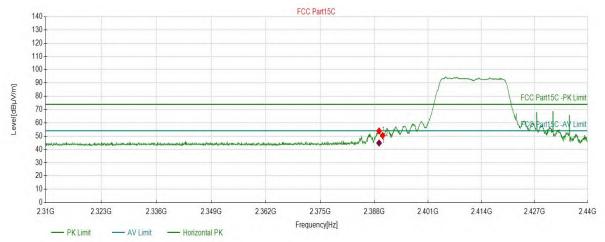
Suspe	Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity	
1	2483.5018	44.51	6.07	74.00	29.49	150	308	PK	Vertical	
2	2497.9465	46.88	6.15	74.00	27.12	150	117	PK	Vertical	

LOP-FTR015 1.0 78 / 92

	Project Information								
EUT:	Travel Apoll Fitness Board	Environment:	<b>23</b> ℃ <b>56</b> %						
Model:	SQUAPLLO-TRVOR	SN:							
Mode:	11G_2412	Voltage:	AC 120V/60Hz						
Customer:	Engineer: Roger								
Remark:	Po	wer Set: 40	Power Set : 40						

Start of Test: 2023-08-24 20:37:31

### **Test Graph**



Suspe	Suspected Data List										
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity		
1	2389.1531	53.91	5.61	74.00	20.09	150	60	PK	Horizont		
2	2390.0200	50.50	5.61	74.00	23.50	150	55	PK	Horizont		

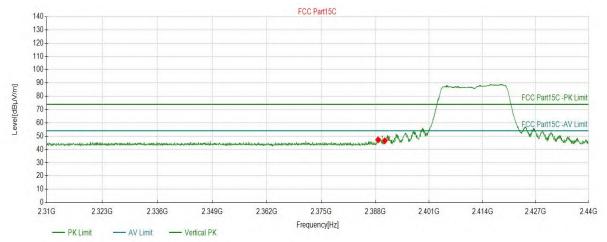
AV Fi	AV Final Data List											
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity				
1	2389.1533	5.61	44.85	54.00	19.15	150	54.2	Horizontal				

LOP-FTR015 1.0 79 / 92

	Project Inform	mation						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%					
Model:	SQUAPLLO-TRVOR	SN:						
Mode:	11G_2412	Voltage:	AC 120V/60Hz					
Customer:		Engineer:	Roger					
Remark:	Po	Power Set : 40						

Start of Test: 2023-08-24 20:38:15

### **Test Graph**



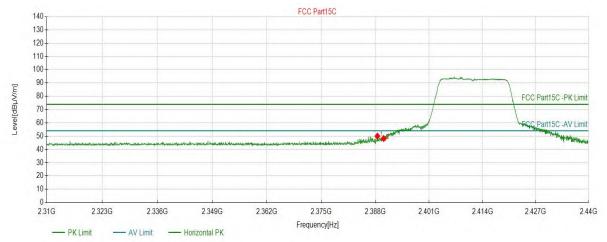
Suspe	Suspected Data List										
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity		
1	2388.6762	47.23	5.61	74.00	26.77	150	30	PK	Vertical		
2	2390.2801	46.48	5.61	74.00	27.52	150	346	PK	Vertical		

LOP-FTR015 1.0 80 / 92

	Project Inform	mation								
EUT:	Travel Apoll Fitness Board	Environment:	<b>23</b> ℃ <b>56</b> %							
Model:	SQUAPLLO-TRVOR	SN:								
Mode:	11N20_2412	Voltage:	AC 120V/60Hz							
Customer:		Engineer:	Roger							
Remark:	Po	Power Set : 40								

Start of Test: 2023-08-24 21:12:40

### **Test Graph**



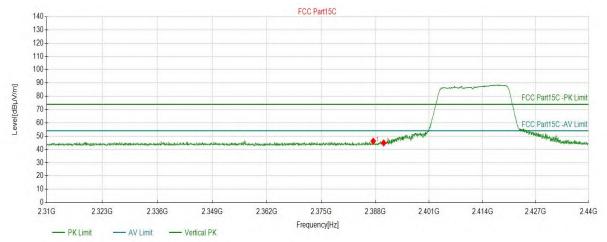
Suspe	Suspected Data List										
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity		
1	2388.5028	50.02	5.61	74.00	23.98	150	80	PK	Horizont		
2	2390.0200	48.18	5.61	74.00	25.82	150	61	PK	Horizont		

LOP-FTR015 1.0 81 / 92

	Project Inform	mation							
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%						
Model:	SQUAPLLO-TRVOR	SN:							
Mode:	11N20_2412	Voltage:	AC 120V/60Hz						
Customer:		Engineer:	Roger						
Remark:	Po	Power Set : 40							

Start of Test: 2023-08-24 21:13:25

### **Test Graph**



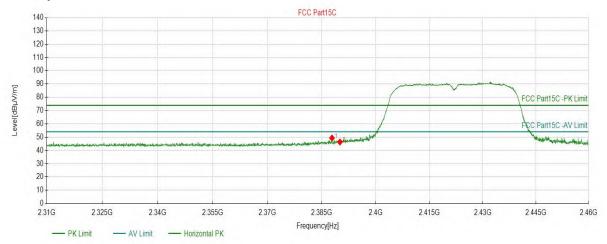
Suspe	Suspected Data List										
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity		
1	2387.5058	46.28	5.61	74.00	27.72	150	343	PK	Vertical		
2	2390.0200	44.89	5.61	74.00	29.11	150	94	PK	Vertical		

LOP-FTR015 1.0 82 / 92

	Project Inforr	nation				
EUT:	Travel Apoll Fitness Board	Environment:	<b>23</b> ℃ <b>56</b> %			
Model:	SQUAPLLO-TRVOR	SN:				
Mode:	11N40_2422	Voltage:	AC 120V/60Hz			
Customer:		Engineer:	Roger			
Remark:	Power Set : 40					

Start of Test: 2023-08-24 21:19:10

#### **Test Graph**



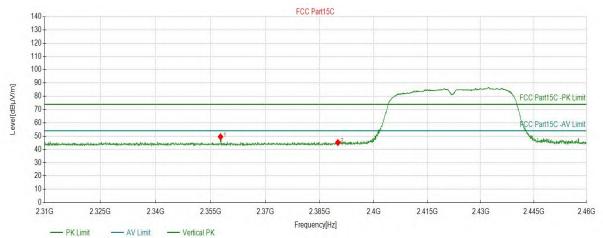
Suspe	Suspected Data List										
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity		
1	2387.8259	49.34	5.61	74.00	24.66	150	66	PK	Horizont		
2	2390.0267	46.34	5.61	74.00	27.66	150	82	PK	Horizont		

LOP-FTR015 1.0 83 / 92

	Project Inforr	nation				
EUT:	Travel Apoll Fitness Board	Environment:	<b>23</b> ℃ <b>56</b> %			
Model:	SQUAPLLO-TRVOR	SN:				
Mode:	11N40_2422	Voltage:	AC 120V/60Hz			
Customer:		Engineer:	Roger			
Remark:	Power Set : 40					

Start of Test: 2023-08-24 21:19:50

### **Test Graph**



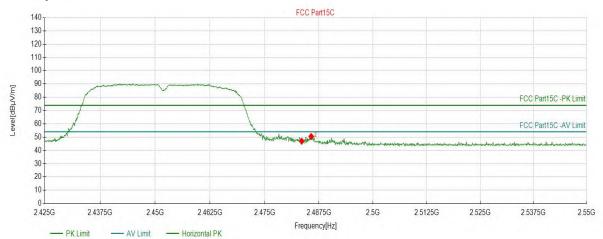
Suspe	Suspected Data List											
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity			
1	2357.6659	49.53	5.57	74.00	24.47	150	359	PK	Vertical			
2	2390.0267	45.20	5.61	74.00	28.80	150	340	PK	Vertical			

LOP-FTR015 1.0 84 / 92

	Project Inforr	mation						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%					
Model:	SQUAPLLO-TRVOR	SN:						
Mode:	11N40_2452	Voltage:	AC 120V/60Hz					
Customer:		Engineer:	Roger					
Remark:	Po	wer Set : 50						

Start of Test: 2023-08-24 21:21:58

#### **Test Graph**



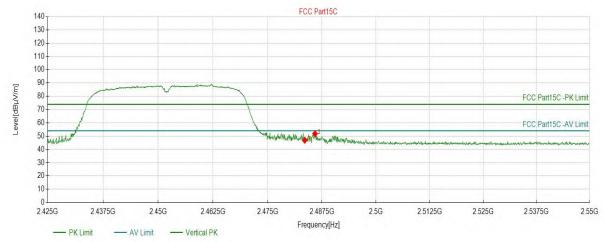
Suspe	Suspected Data List										
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity		
1	2483.5293	46.90	6.07	74.00	27.10	150	15	PK	Horizont		
2	2485.7179	50.51	6.08	74.00	23.49	150	84	PK	Horizont		

LOP-FTR015 1.0 85 / 92

	Project Inforr	mation					
EUT:	Travel Apoll Fitness Board	Environment:	<b>23</b> ℃ <b>56</b> %				
Model:	SQUAPLLO-TRVOR	SN:					
Mode:	11N40_2452	Voltage:	AC 120V/60Hz				
Customer:		Engineer:	Roger				
Remark:	Po	Power Set : 50					

Start of Test: 2023-08-24 21:22:50

### **Test Graph**



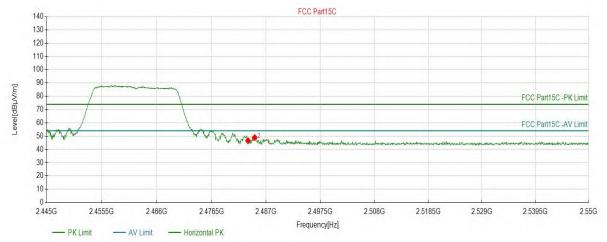
Suspe	Suspected Data List										
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity		
1	2483.5293	46.93	6.07	74.00	27.07	150	78	PK	Vertical		
2	2485.9055	51.79	6.08	74.00	22.21	150	70	PK	Vertical		

LOP-FTR015 1.0 86 / 92

	Project Inform	mation						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%					
Model:	SQUAPLLO-TRVOR	SN:						
Mode:	11G_2462	Voltage:	AC 120V/60Hz					
Customer:		Engineer:	Roger					
Remark:	Po	wer Set : 60						

Start of Test: 2023-08-24 21:27:38

### **Test Graph**



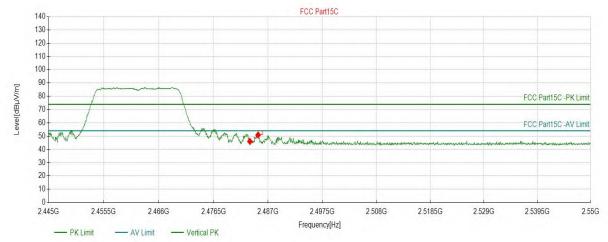
Suspe	Suspected Data List										
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity		
1	2483.5018	46.64	6.07	74.00	27.36	150	7	PK	Horizont		
2	2484.8149	48.92	6.08	74.00	25.08	150	5	PK	Horizont		

LOP-FTR015 1.0 87 / 92

	Project Inform	mation						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%					
Model:	SQUAPLLO-TRVOR	SN:						
Mode:	11G_2462	Voltage:	AC 120V/60Hz					
Customer:		Engineer:	Roger					
Remark:	Po	wer Set : 60						

Start of Test: 2023-08-24 21:28:31

### **Test Graph**



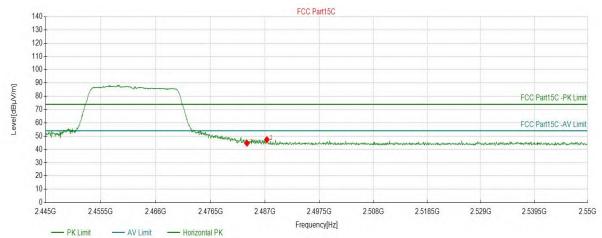
Suspe	Suspected Data List										
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity		
1	2483.5018	45.97	6.07	74.00	28.03	150	86	PK	Vertical		
2	2485.0775	50.91	6.08	74.00	23.09	150	78	PK	Vertical		

LOP-FTR015 1.0 88 / 92

1000110										
	Project Information									
EUT:	Travel Apoll Fitness Board	Environment:	<b>23</b> ℃ <b>56</b> %							
Model:	SQUAPLLO-TRVOR	SN:								
Mode:	11N20_2462	Voltage:	AC 120V/60Hz							
Customer:		Engineer:	Roger							
Remark:	Po	wer Set : 60								

Start of Test: 2023-08-24 21:39:30

### **Test Graph**



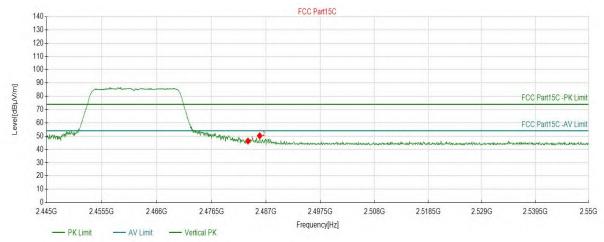
Suspe	Suspected Data List											
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity			
1	2483.5018	44.68	6.07	74.00	29.32	150	18	PK	Horizont			
2	2487.3362	47.37	6.09	74.00	26.63	150	26	PK	Horizont			

LOP-FTR015 1.0 89 / 92

	Project Inform	mation						
EUT:	Travel Apoll Fitness Board	Environment:	23℃ 56%					
Model:	SQUAPLLO-TRVOR	SN:						
Mode:	11N20_2462	Voltage:	AC 120V/60Hz					
Customer:		Engineer:	Roger					
Remark:	Po	wer Set : 60						

Start of Test: 2023-08-24 21:40:23

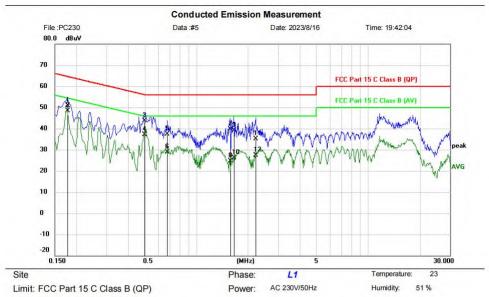
### **Test Graph**



Suspe	Suspected Data List											
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detec tor	Polarity			
1	2483.5018	46.33	6.07	74.00	27.67	150	86	PK	Vertical			
2	2485.7604	50.26	6.08	74.00	23.74	150	86	PK	Vertical			

LOP-FTR015 1.0 90 / 92

### **APPENDIX C – AC Power Line Conducted Emission Test Data**



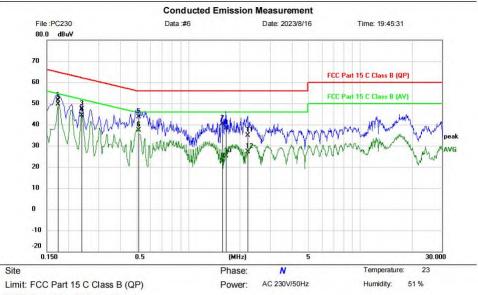
EUT: Travel Apoll Fitness Board M/N: SQUALLO-TRVOR

Mode: WIFI Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1780	41.33	9.65	50.98	64.58	-13.60	QP	
2	*	0.1780	38.69	9.65	48.34	54.58	-6.24	AVG	
3		0.4980	33.82	9.77	43.59	56.03	-12.44	QP	
4		0.4980	27.32	9.77	37.09	46.03	-8.94	AVG	
5		0.6780	27.71	9.77	37.48	56.00	-18.52	QP	
6		0.6780	19.05	9.77	28.82	46.00	-17.18	AVG	
7		1.5700	29.95	9.76	39.71	56.00	-16.29	QP	
8		1.5700	14.80	9.76	24.56	46.00	-21.44	AVG	
9		1.6620	29.43	9.76	39.19	56.00	-16.81	QP	
10		1.6620	16.40	9.76	26.16	46.00	-19.84	AVG	
11		2.2220	25.26	9.75	35.01	56.00	-20.99	QP	
12		2.2220	17.59	9.75	27.34	46.00	-18.66	AVG	

LOP-FTR015 1.0 91 / 92



EUT: Travel Apoll Fitness Board M/N: SQUALLO-TRVOR

Mode: WIFI Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1740	41.78	9.66	51.44	64.77	-13.33	QP	
2	*	0.1740	39.87	9.66	49.53	54.77	-5.24	AVG	
3		0.2380	37.60	9.66	47.26	62.17	-14.91	QP	
4		0.2380	34.79	9.66	44.45	52.17	-7.72	AVG	
5		0.5140	33.97	9.76	43.73	56.00	-12.27	QP	
6		0.5140	27.69	9.76	37.45	46.00	-8.55	AVG	
7		1.5700	30.57	9.75	40.32	56.00	-15.68	QP	
8		1.5700	12.85	9.75	22.60	46.00	-23.40	AVG	
9		1.6540	28.74	9.75	38.49	56.00	-17.51	QP	
10		1.6540	15.42	9.75	25.17	46.00	-20.83	AVG	
11		2.2220	25.21	9.74	34.95	56.00	-21.05	QP	
12		2.2220	17.30	9.74	27.04	46.00	-18.96	AVG	

### **END OF REPORT**

LOP-FTR015 1.0 92 / 92