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Report No.:SZEM110700202201  
Page: 1 of 23

## FCC Test Report (Verification)

**Application No.:** SZEM1107002022IT  
**Applicant:** Fung Shing Co., Ltd.  
**Address of Applicant:** Unit 903-904, 9/F, Lai Sun Yuen Long Centre, No.27 Wang Yip Street East, Yuen Long, N.T, Hong Kong.  
**Manufacturer/Factory:** He Yuan Yuan Feng Earphone Factory  
**Address of Manufacturer /Factory:** Gao Tang Hong Guang Industrial Village Dong Yuan District, He Yuan City, Guang Dong Province.  
**Equipment Under Test (EUT):**  
**EUT Name:** Waterproof MP3 Player  
**Item No.:** SG04  
**Standards:** FCC PART15 SUBPART B:2010  
**Date of Receipt:** 2011-07-08  
**Date of Test:** 2011-07-11 to 2011-07-14  
**Date of Issue:** 2011-08-08

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Jack Zhang  
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. 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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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## 2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 2GHz) §	FCC PART 15, SUBPART B: 2010	ANSI C63.4:2009	Class B	PASS
Conducted Emission (150kHz to 30MHz)	FCC PART 15, SUBPART B: 2010	ANSI C63.4:2009	Class B	PASS

§

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower



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## 4 General Information

### 4.1 Details of E.U.T.

Power Supply: Supply by PC  
Earphone cable: 80CM unshielded wire  
USB cable: 30CM shielded wire with a ferrite core  
The highest frequency: 108MHz

### 4.2 Description of Support Units

None.

### 4.3 Standards Applicable for Testing

The customer requested FCC tests for Waterproof MP3 Player.  
The standard used was FCC PART 15, SUBPART B, CLASS B.

### 4.4 Test Location

All tests were performed at:  
SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,  
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.  
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



#### 4.5 Test Facility

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

- **CNAS (No. CNAS L2929)**  
CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.
- **VCCI**  
The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.  
Date of Registration: September 29, 2008. Valid until September 28, 2011.
- **FCC – Registration No.: 556682**  
SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, March 16, 2011
- **Industry Canada (IC)**  
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

#### 4.6 Deviation from Standards

None.

#### 4.7 Abnormalities from Standard Conditions

None.

## 5 Equipments Used during Test

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2011-06-10	2012-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2011-03-11	2012-03-11
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	2011-05-29	2012-05-29
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2010-11-09	2011-11-09
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2011-05-26	2012-05-26
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2010-11-09	2011-11-09
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2010-11-09	2011-11-09
9	Band filter	Amindeon	Asi 3314	SEL0094	2011-05-26	2012-05-26
10	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2010-11-09	2011-11-09



Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2011-06-10	2012-06-10
2	LISN	ETS-LINDGREN	3816/2	SEL0021	2011-05-26	2012-05-26
3	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2011-01-17	2012-01-17
4	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2011-01-17	2012-01-17
5	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2011-01-17	2012-01-17
6	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2011-05-26	2012-05-26
7	Coaxial Cable	SGS	N/A	SEL0024	2011-05-29	2012-05-29

General used equipment						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0102 to SEL0103	2010-11-04	2011-11-04
2	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0101	2011-03-10	2012-03-10
3	Barometer	ChangChun	DYM3	SEL0088	2011-05-18	2012-05-18



## 6 Test Results

### 6.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 B  
Test Method: ANSI C63.4  
Frequency Range: 150kHz to 30MHz  
Class / Severity: Class B  
Detector: Peak for pre-scan (9kHz Resolution Bandwidth)  
Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

#### 6.1.1 E.U.T. Operation

Operating Environment:  
Temperature: 25.0 °C Humidity: 55% RH Atmospheric Pressure: 1008 mbar  
EUT Operation: Test the EUT in Communicate with PC, build the connection between EUT and PC,  
keep data exchanging.

#### 6.1.2 Measurement Data

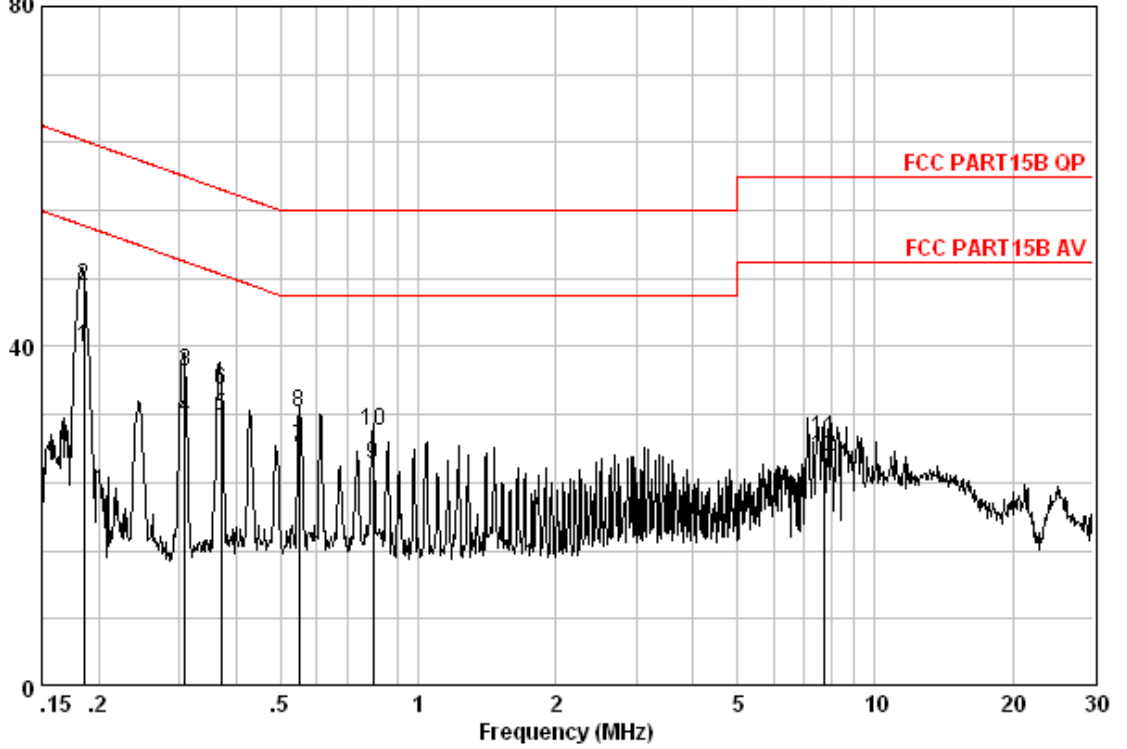
An initial pre-scan was performed on the live and neutral lines with peak detector.  
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak  
emission were detected.





Live Line

Data: 210  
Level (dBuV)

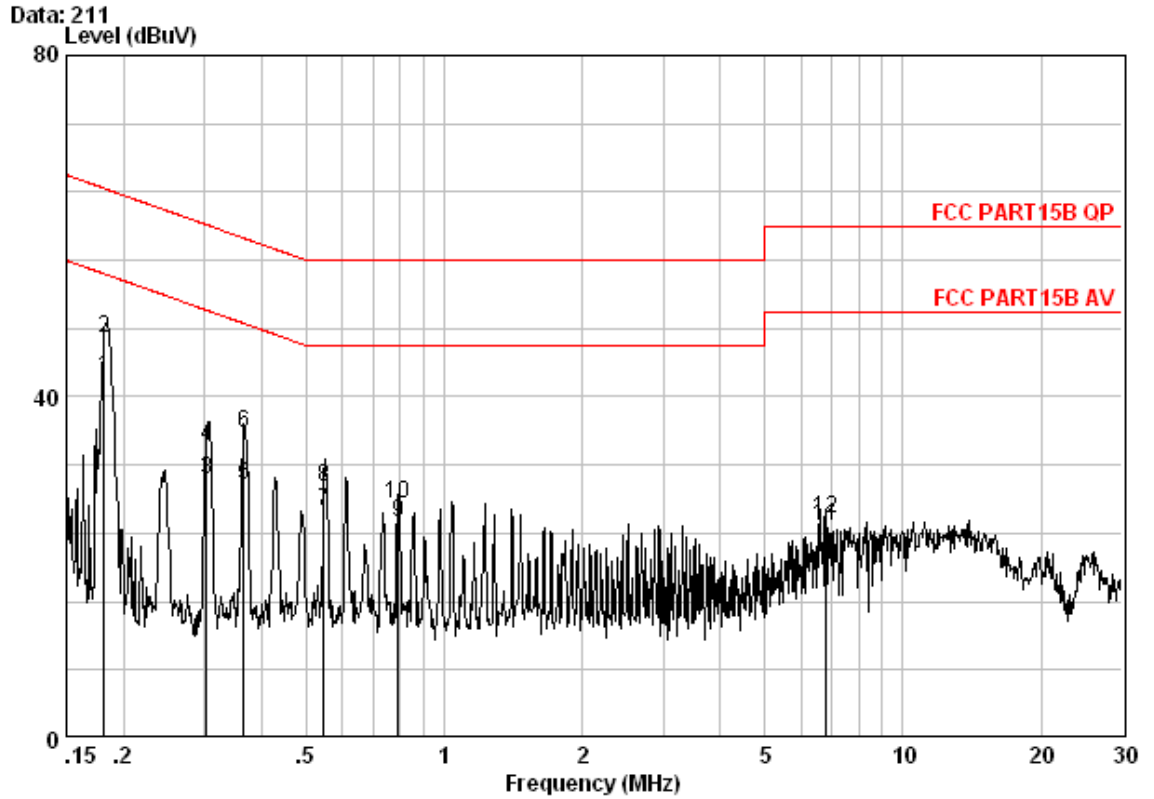


Site : Shielding Room  
Condition : FCC PART15B QP CE-20101216 LINE  
Job No. : 2022IT  
Mode : Communicate with PC

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18541	0.04	9.60	30.25	39.89	54.24	-14.35	Average
2	0.18541	0.04	9.60	37.55	47.19	64.24	-17.05	QP
3	0.30834	0.05	9.60	27.42	37.07	60.02	-22.94	QP
4	0.30834	0.05	9.60	21.85	31.50	50.02	-18.51	Average
5	0.37117	0.05	9.60	22.14	31.79	48.47	-16.68	Average
6	0.37117	0.05	9.60	25.12	34.78	58.47	-23.70	QP
7	0.54934	0.06	9.63	18.52	28.21	46.00	-17.79	Average
8	0.54934	0.06	9.63	22.55	32.23	56.00	-23.77	QP
9	0.79600	0.07	9.70	16.38	26.15	46.00	-19.85	Average
10	0.79600	0.07	9.70	20.24	30.01	56.00	-25.99	QP
11	7.769	0.20	9.87	19.11	29.19	60.00	-30.81	QP
12	7.769	0.20	9.87	16.95	27.02	50.00	-22.98	Average



Neutral Line



Site : Shielding Room  
Condition : FCC PART15B QP CE-20101216 NEUTRAL  
Job No. : 2022IT  
Mode : Communicate with PC

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18152	0.04	9.60	32.58	42.22	54.42	-12.20	Average
2	0.18152	0.04	9.60	37.25	46.89	64.42	-17.52	QP
3	0.30348	0.05	9.60	20.56	30.21	50.15	-19.94	Average
4	0.30348	0.05	9.60	24.47	34.12	60.15	-26.02	QP
5	0.36531	0.05	9.60	19.96	29.62	48.61	-18.99	Average
6	0.36531	0.05	9.60	26.09	35.74	58.61	-22.86	QP
7	0.54644	0.06	9.63	16.85	26.54	46.00	-19.46	Average
8	0.54644	0.06	9.63	19.73	29.42	56.00	-26.58	QP
9	0.79180	0.07	9.70	15.58	25.35	46.00	-20.65	Average
10	0.79180	0.07	9.70	17.70	27.47	56.00	-28.53	QP
11	6.805	0.19	9.80	14.85	24.84	50.00	-25.16	Average
12	6.805	0.19	9.80	15.72	25.71	60.00	-34.29	QP

**6.2 Radiated Emissions, 30MHz to 2GHz**

Test Requirement: FCC Part15 B  
Test Method: ANSI C63.4  
Frequency Range: 30MHz to 2GHz  
Measurement Distance: 3m  
Class: Class B  
Limit: 40.0 dB $\mu$ V/m between 30MHz & 88MHz  
43.5 dB $\mu$ V/m between 88MHz & 216MHz  
46.0 dB $\mu$ V/m between 216MHz & 960MHz  
54.0 dB $\mu$ V/m above 960MHz  
73.9 dB $\mu$ V/m above 1000MHz for quasi-peak  
53.9 dB $\mu$ V/m above 1000MHz for average  
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz-1GHz  
Peak for pre-scan (1MHz resolution bandwidth) 1GHz-2GHz  
Quasi-Peak if maximised peak within 6dB of limit

**6.2.1 E.U.T. Operation**

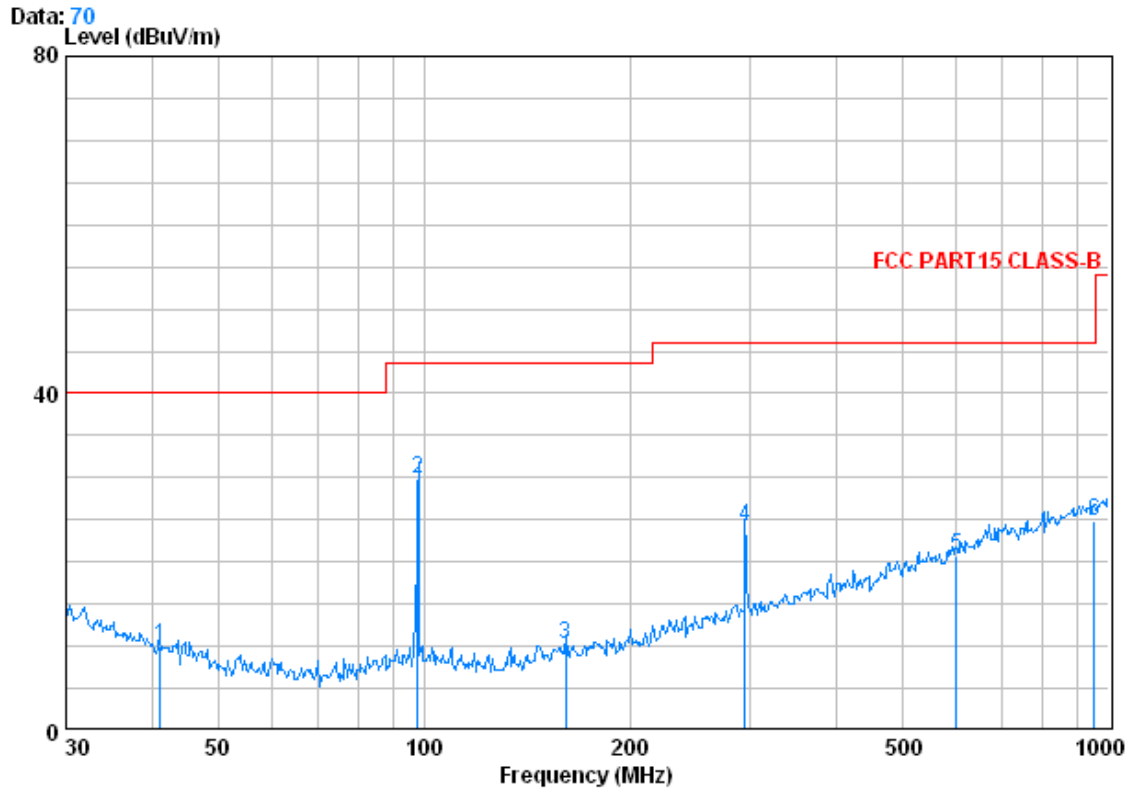
Operating Environment:  
Temperature: 25.0 °C Humidity: 55% RH Atmospheric Pressure: 1008 mbar  
EUT Operation: Test the EUT in FM mode, keep EUT working with standard testing signal,pretest performed at low,middle and high channels,complete test was conducted at middle channels,since no worst case was case.  
Test the EUT in Play mode, keep EUT playing music;  
Test the EUT in Communicate with PC, build the connection between EUT and PC, keep data exchanging.

**6.2.2 Measurement Data**

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



30M-1G  
FM  
Vertical

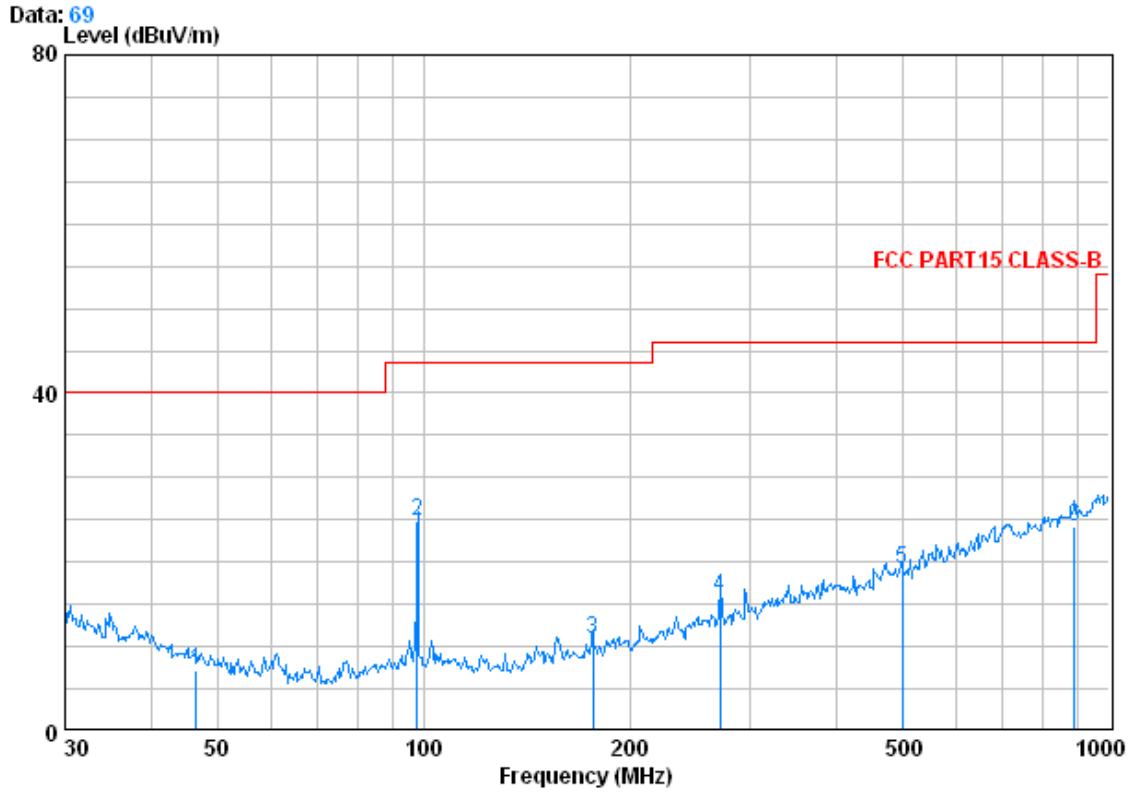


Condition : FCC PART15 CLASS-B 3m 0042673 VERTICAL  
Job No. : 2022IT  
Mode : FM

	Freq	CableAntenna Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	41.132	0.63	10.78	27.32	25.90	9.99	40.00	-30.01
2 @	98.000	1.18	9.02	27.20	46.92	29.91	43.50	-13.59
3	160.909	1.34	9.59	26.86	26.25	10.32	43.50	-33.18
4	294.114	1.87	13.63	26.42	35.08	24.17	46.00	-21.83
5	599.321	2.70	19.74	27.54	25.89	20.79	46.00	-25.21
6	952.094	3.65	23.40	26.54	24.26	24.77	46.00	-21.23



Horizontal

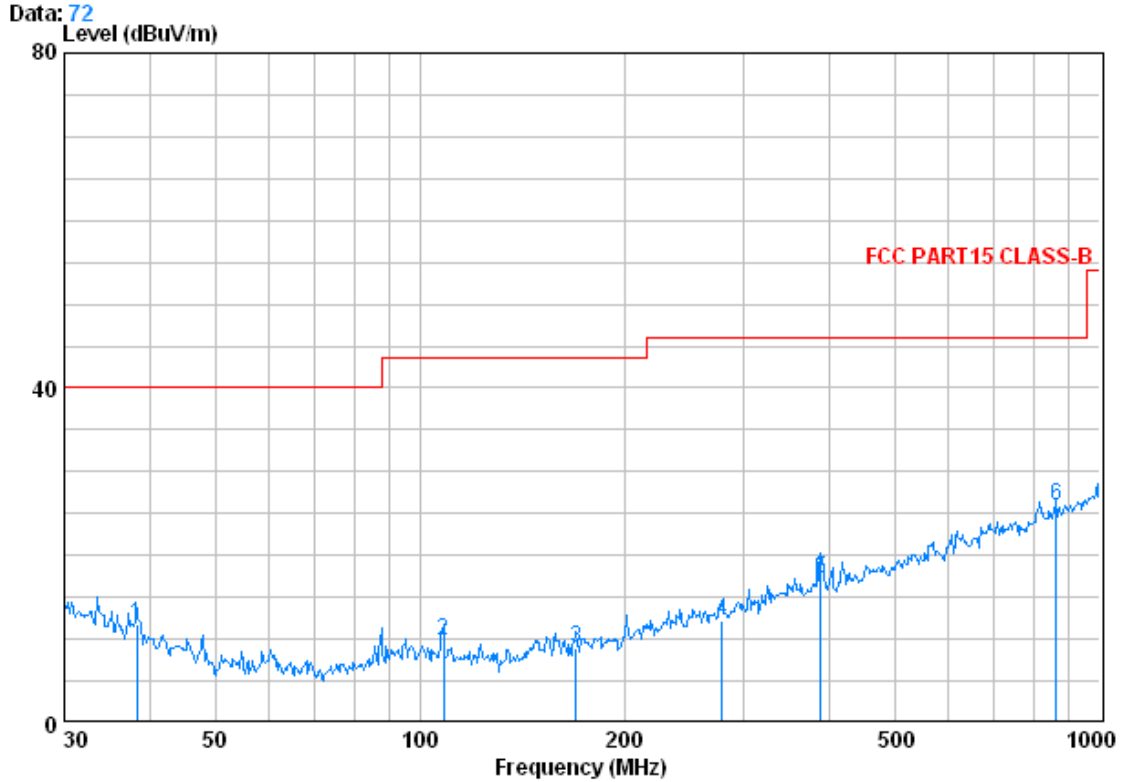


Condition : FCC PART15 CLASS-B 3m 0042673 HORIZONTAL  
Job No. : 2022IT  
Mode : FM

	Freq	CableAntenna Preamp			Read		Limit	Over
		Loss	Factor	Factor	Level	Level		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	46.666	0.74	9.55	27.30	24.31	7.30	40.00	-32.70
2	98.000	1.18	9.02	27.20	41.84	24.83	43.50	-18.67
3	176.888	1.36	9.77	26.79	26.56	10.90	43.50	-32.60
4	270.375	1.77	12.70	26.48	27.91	15.91	46.00	-30.09
5	499.425	2.60	17.80	27.70	26.40	19.10	46.00	-26.90
6	890.728	3.56	23.14	26.82	24.36	24.25	46.00	-21.75



Play  
Vertical

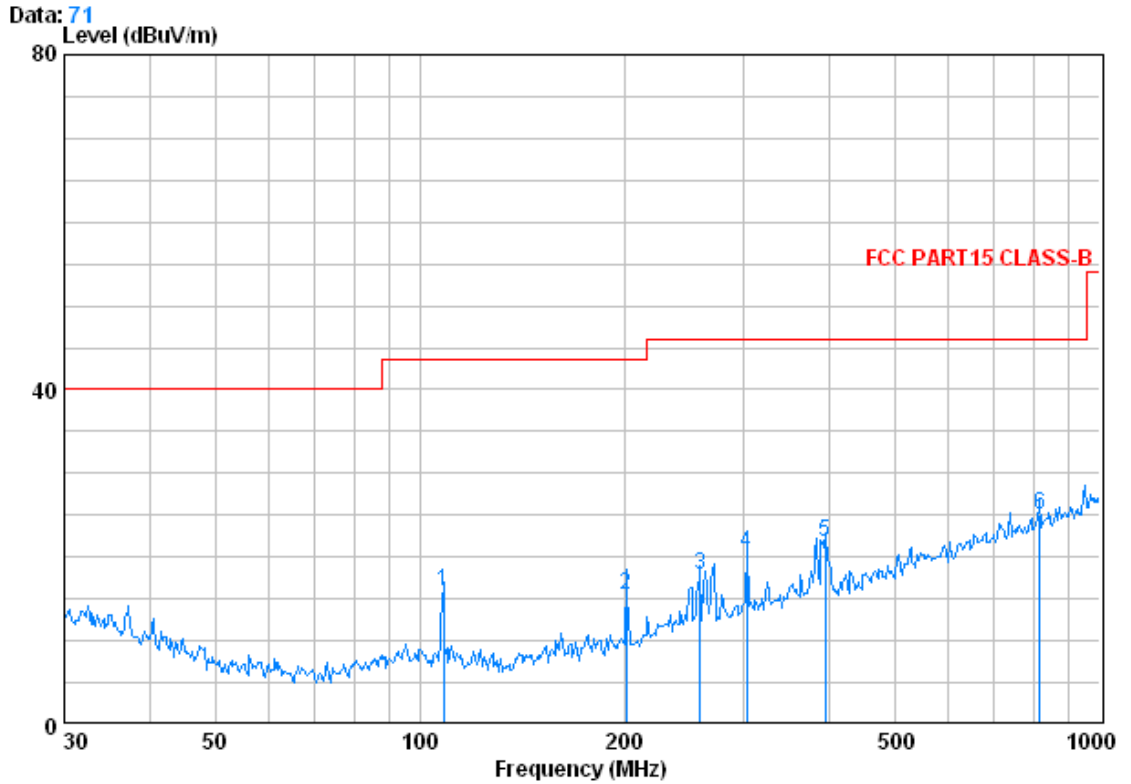


Condition : FCC PART15 CLASS-B 3m 0042673 VERTICAL  
Job No. : 2022IT  
Mode : Play

	Freq	CableAntenna Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	38.346	0.60	11.75	27.32	26.81	11.84	40.00	-28.16
2	108.267	1.22	8.70	27.14	27.04	9.81	43.50	-33.69
3	169.599	1.35	9.51	26.82	24.93	8.97	43.50	-34.53
4	278.067	1.81	12.94	26.46	23.93	12.22	46.00	-33.78
5	389.355	2.17	16.17	27.07	26.00	17.27	46.00	-28.73
6	863.056	3.46	22.70	26.96	26.67	25.87	46.00	-20.13



Horizontal

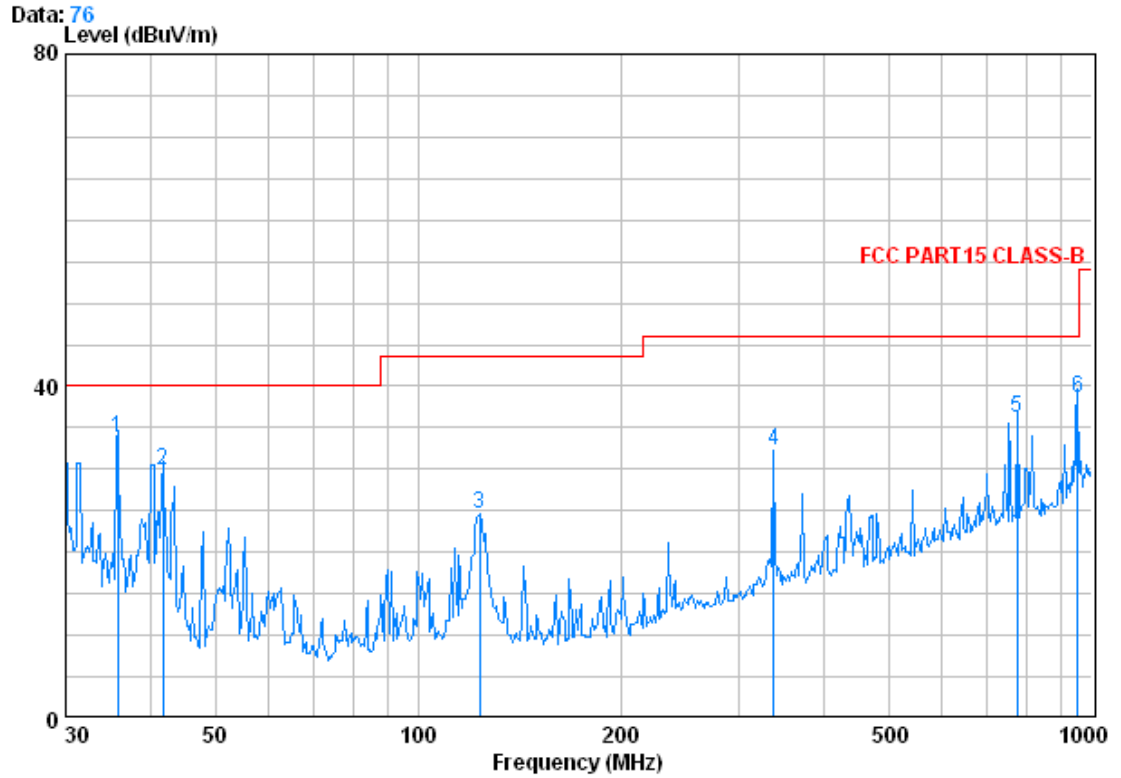


Condition : FCC PART15 CLASS-B 3m 0042673 HORIZONTAL  
Job No. : 2022IT  
Mode : Play

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	108.267	1.22	8.70	27.14	33.13	15.90	43.50	-27.60
2	201.393	1.41	10.28	26.69	30.44	15.44	43.50	-28.06
3	258.326	1.71	12.47	26.51	30.22	17.90	46.00	-28.10
4	302.481	1.91	13.99	26.42	31.09	20.56	46.00	-25.44
5	394.855	2.19	16.23	27.09	30.51	21.83	46.00	-24.17
6	815.968	3.27	22.29	27.20	26.74	25.10	46.00	-20.90



Communicate with PC  
Vertical



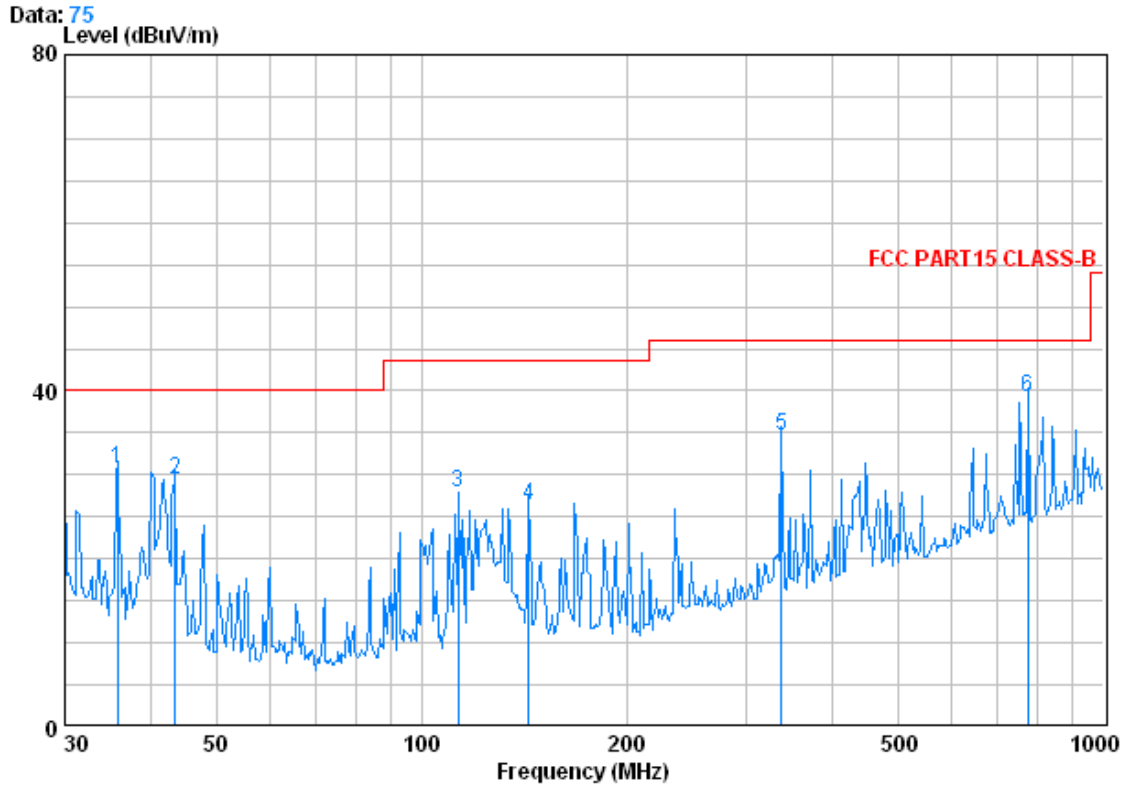
Condition : FCC PART15 CLASS-B 3m 0042673 VERTICAL  
Job No. : 2022IT  
Mode : Communicate with PC

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	35.875	0.60	12.65	27.33	47.83	33.75	-6.25
2	41.860	0.64	10.51	27.31	46.01	29.85	-10.15
3	123.266	1.26	7.83	27.05	42.65	24.68	-18.82
4	337.216	2.02	15.10	26.68	41.87	32.31	-13.69
5	774.158	3.13	22.00	27.33	38.31	36.12	-9.88
6	952.094	3.65	23.40	26.54	38.11	38.62	-7.38





Horizontal

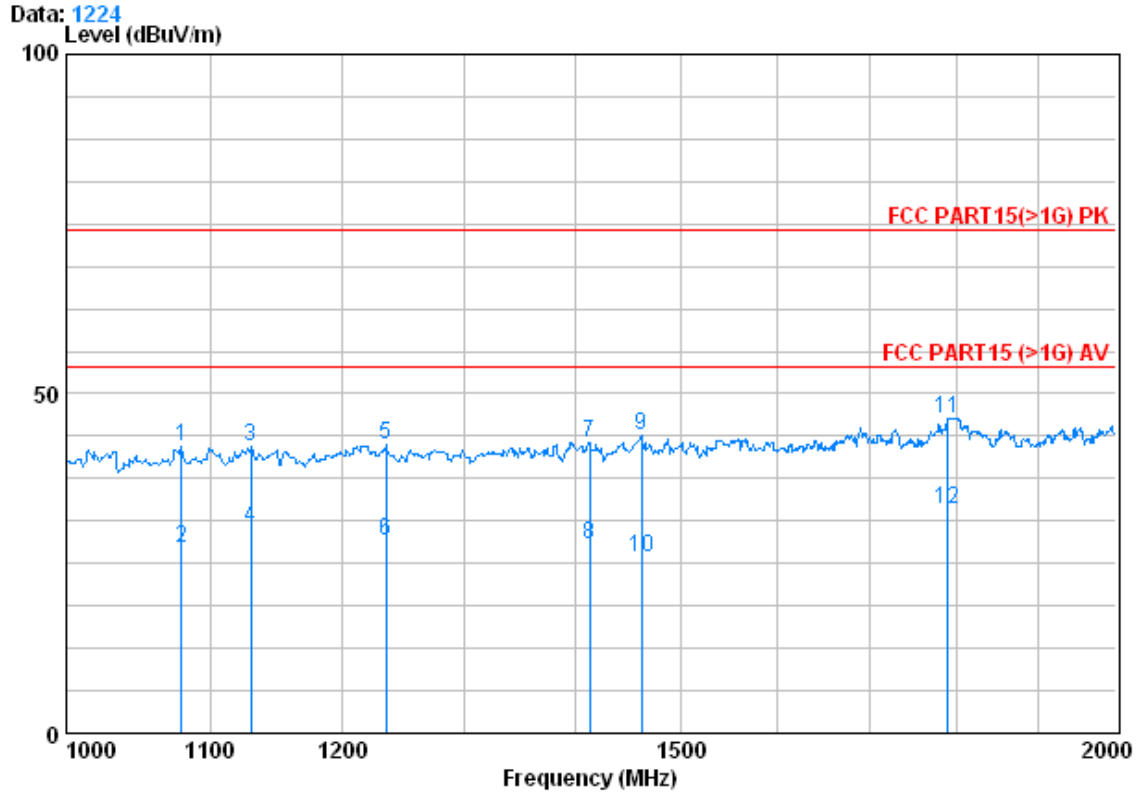


Condition : FCC PART15 CLASS-B 3m 0042673 HORIZONTAL  
Job No. : 2022IT  
Mode : Communicate with PC

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	35.875	0.60	12.77	27.33	44.64	30.67	40.00	-9.33
2	43.506	0.68	10.58	27.31	45.59	29.53	40.00	-10.47
3	113.316	1.24	8.36	27.11	45.50	27.98	43.50	-15.52
4	143.830	1.31	8.43	26.94	43.58	26.38	43.50	-17.12
5	337.216	2.02	15.10	26.68	44.24	34.67	46.00	-11.33
6	774.158	3.13	22.00	27.33	41.46	39.26	46.00	-6.74



1G -2G  
FM  
Vertical



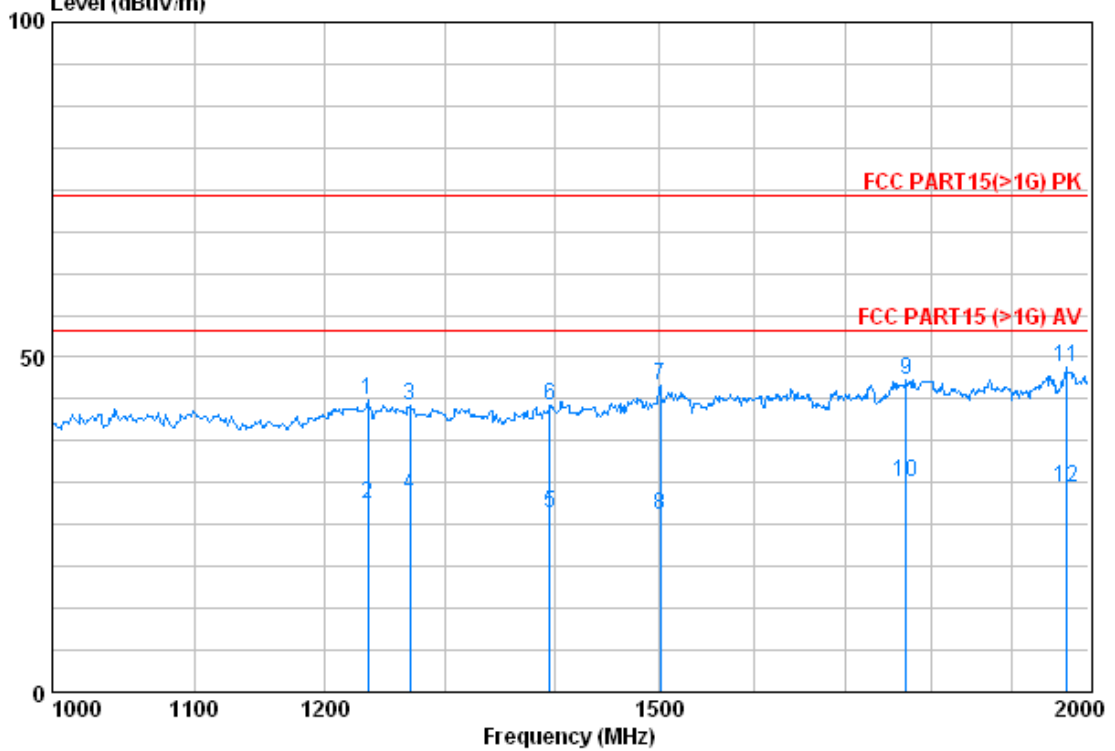
Condition : FCC PART15(>1G) PK 3m ANT3117(>1G) VERTICAL  
Job No. : 2022IT  
Test mode : FM

	Freq	CableAntenna Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1079.000	3.87	25.56	39.34	52.21	42.30	74.00 -31.70	Peak
2 @	1079.000	3.87	25.56	39.34	37.20	27.29	50.00 -22.71	Average
3	1130.000	4.03	25.78	39.24	51.57	42.13	74.00 -31.87	Peak
4 @	1130.000	4.03	25.78	39.24	39.70	30.26	50.00 -19.74	Average
5	1235.000	4.41	26.20	39.15	51.06	42.52	74.00 -31.48	Peak
6 @	1235.000	4.41	26.20	39.15	36.90	28.36	50.00 -21.64	Average
7	1413.000	4.50	26.85	38.87	50.41	42.89	74.00 -31.11	Peak
8 @	1413.000	4.50	26.85	38.87	35.40	27.88	50.00 -22.12	Average
9	1462.000	4.63	27.00	39.38	51.71	43.96	74.00 -30.04	Peak
10	1462.000	4.63	27.00	39.38	33.70	25.95	50.00 -24.05	Average
11	1790.000	5.59	27.96	38.80	51.70	46.45	74.00 -27.55	Peak
12 @	1790.000	5.59	27.96	38.80	38.10	32.85	50.00 -17.15	Average



Horizontal

Data: 1223  
Level (dBuV/m)

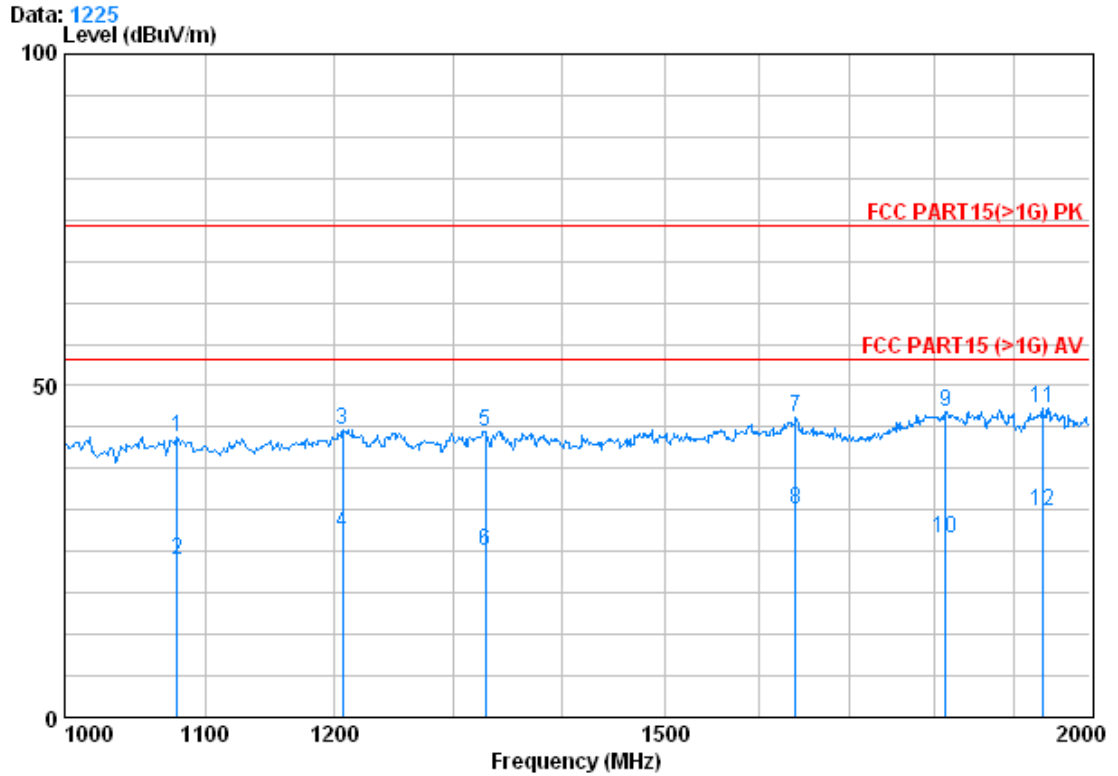


Condition : FCC PART15(>1G) PK 3m ANT3117(>1G) HORIZONTAL  
Job No. : 2022IT  
Test mode : FM

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1235.000	4.41	26.20	39.15	52.06	43.52	74.00	Peak
2 @	1235.000	4.41	26.20	39.15	36.70	28.16	50.00	Average
3	1270.000	4.48	26.34	39.42	51.30	42.70	74.00	Peak
4 @	1270.000	4.48	26.34	39.42	37.90	29.30	50.00	Average
5 @	1395.000	4.45	26.78	38.72	34.20	26.72	50.00	Average
6	1395.000	4.45	26.78	38.72	50.28	42.79	74.00	Peak
7	1502.000	4.76	27.14	39.76	53.58	45.71	74.00	Peak
8 @	1502.000	4.76	27.14	39.76	34.20	26.34	50.00	Average
9	1770.000	5.49	27.92	39.01	52.07	46.47	74.00	Peak
10 @	1770.000	5.49	27.92	39.01	36.90	31.30	50.00	Average
11	1971.000	5.38	28.43	39.01	53.57	48.37	74.00	Peak
12 @	1971.000	5.38	28.43	39.01	35.80	30.60	50.00	Average



Play  
Vertical

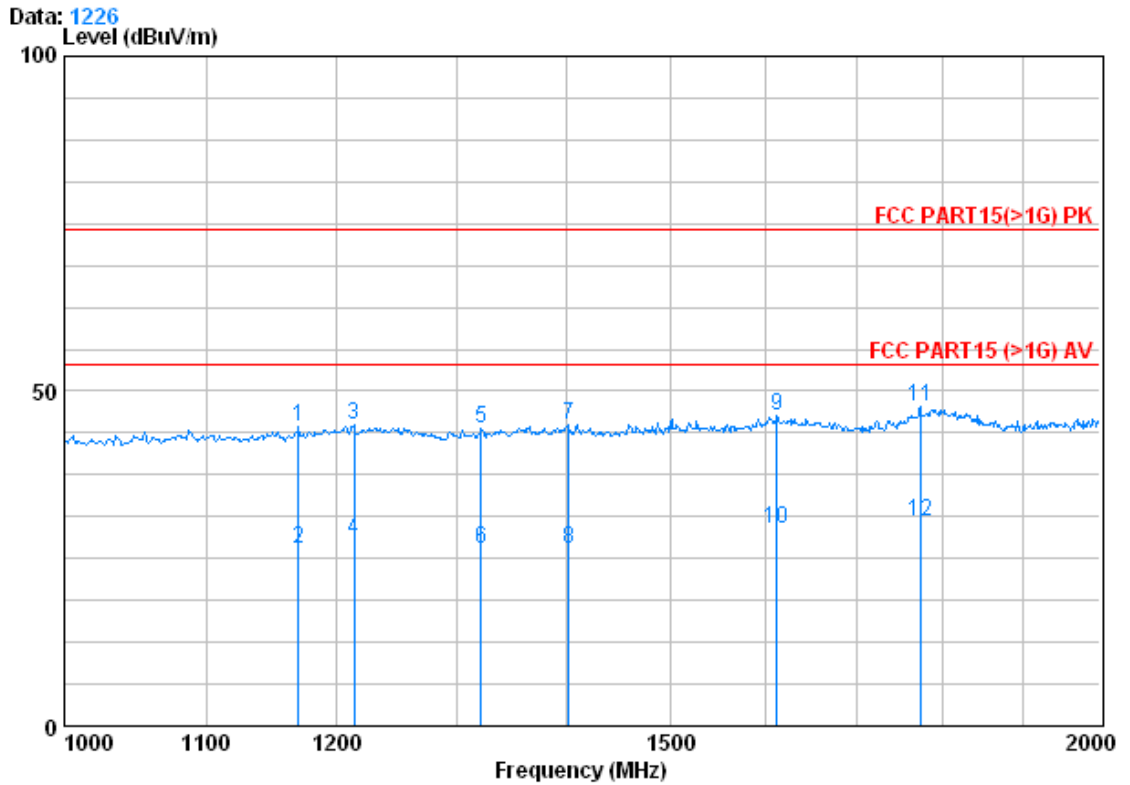


Condition : FCC PART15(>1G) PK 3m ANT3117(>1G) VERTICAL  
Job No. : 2022IT  
Test mode : Play

	Freq	CableAntenna Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1079.000	3.87	25.56	39.34	52.21	42.30	74.00	-31.70	Peak
2	1079.000	3.87	25.56	39.34	33.50	23.59	50.00	-26.41	Average
3	1207.000	4.35	26.09	38.93	51.77	43.27	74.00	-30.73	Peak
4	1207.000	4.35	26.09	38.93	36.20	27.70	50.00	-22.30	Average
5	1329.000	4.51	26.55	39.37	51.48	43.17	74.00	-30.83	Peak
6	1329.000	4.51	26.55	39.37	33.40	25.09	50.00	-24.91	Average
7	1639.000	5.10	27.55	39.26	51.76	45.15	74.00	-28.85	Peak
8	1639.000	5.10	27.55	39.26	37.90	31.29	50.00	-18.71	Average
9	1814.000	5.63	28.03	38.86	51.34	46.14	74.00	-27.86	Peak
10	1814.000	5.63	28.03	38.86	32.20	27.00	50.00	-23.00	Average
11	1937.000	5.44	28.35	39.42	52.18	46.55	74.00	-27.45	Peak
12	1937.000	5.44	28.35	39.42	36.70	31.06	50.00	-18.94	Average



Horizontal

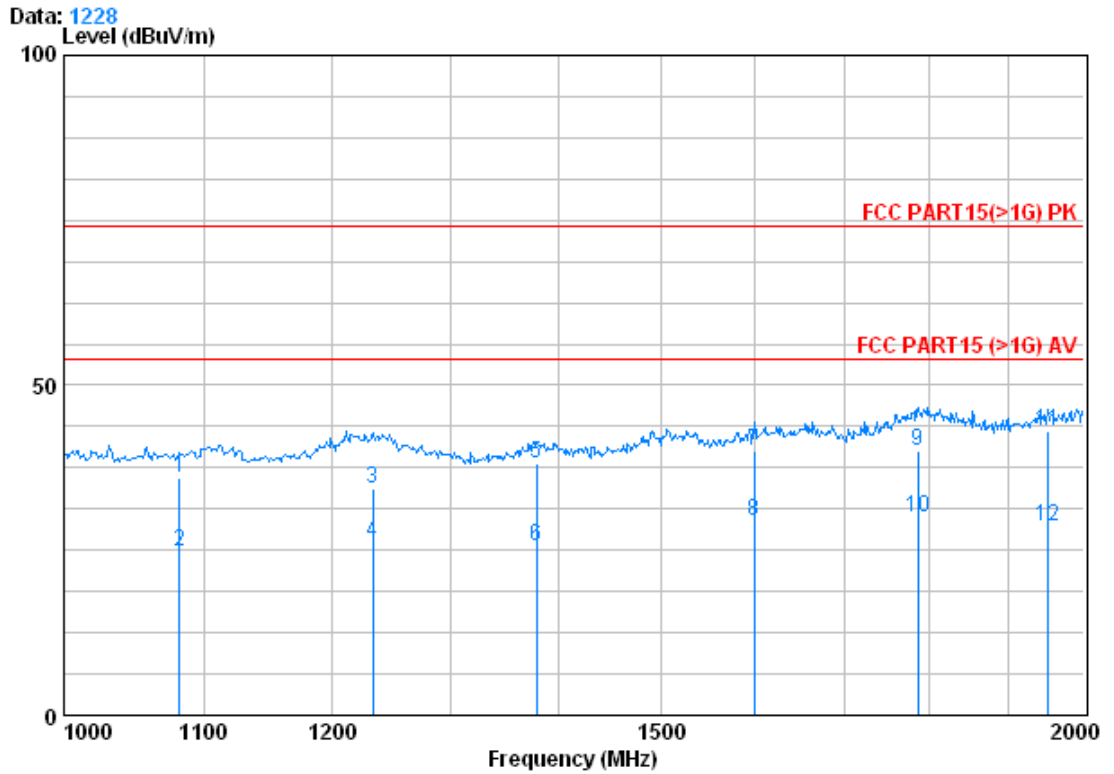


Condition : FCC PART15(>1G) PK 3m ANT3117(>1G) HORIZONTAL  
Job No. : 2022IT  
Test mode : Play

	Freq	CableAntenna Loss	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dB	
1	1170.000	4.20	25.94	39.04	53.54	44.65	74.00 -29.35 Peak
2	1170.000	4.20	25.94	39.04	35.20	26.31	50.00 -23.69 Average
3	1214.000	4.36	26.12	38.99	53.39	44.88	74.00 -29.12 Peak
4	1214.000	4.36	26.12	38.99	36.20	27.69	50.00 -22.31 Average
5	1322.000	4.52	26.53	39.41	52.66	44.31	74.00 -29.69 Peak
6	1322.000	4.52	26.53	39.41	34.70	26.34	50.00 -23.66 Average
7	1402.000	4.46	26.81	38.73	52.44	44.98	74.00 -29.02 Peak
8	1402.000	4.46	26.81	38.73	33.90	26.44	50.00 -23.56 Average
9	1611.000	5.12	27.47	38.92	52.71	46.38	74.00 -27.62 Peak
10	1611.000	5.12	27.47	38.92	35.80	29.47	50.00 -20.53 Average
11	1774.000	5.49	27.92	39.01	53.23	47.63	74.00 -26.37 Peak
12	1774.000	5.49	27.92	39.01	36.20	30.60	50.00 -19.40 Average



Communicate with PC  
Vertical

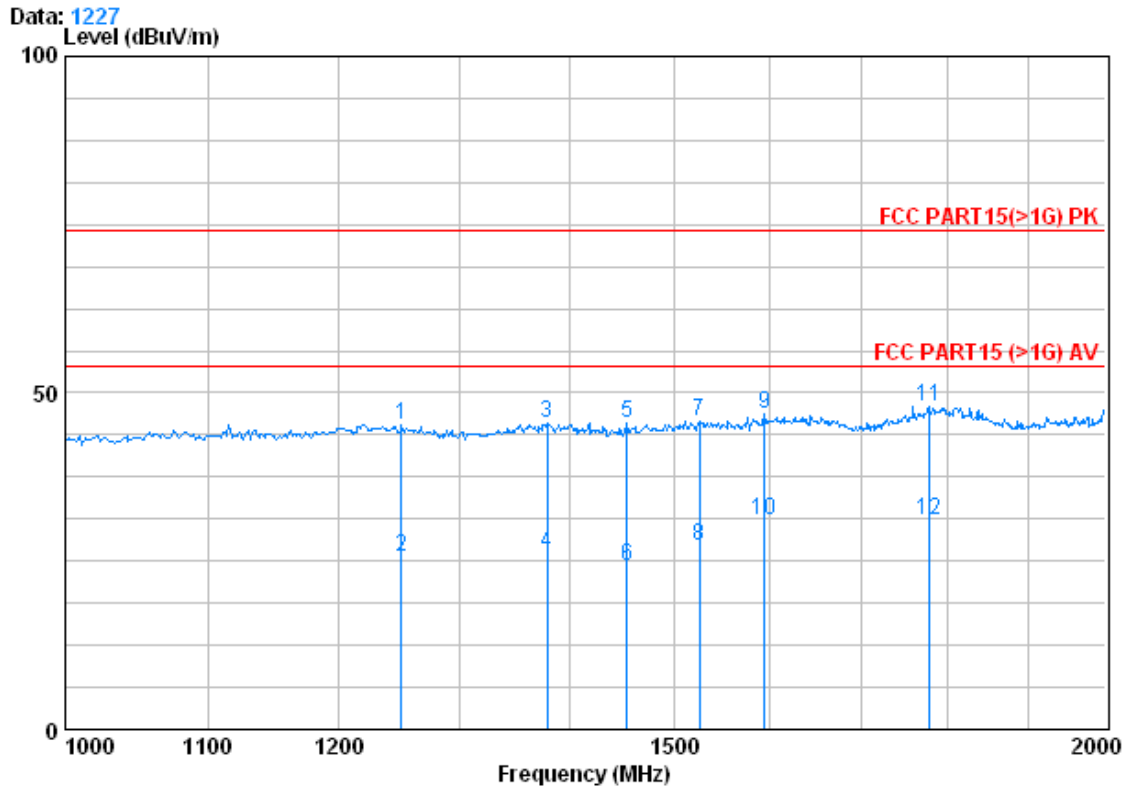


Condition : FCC PART15(>1G) PK 3m ANT3117(>1G) VERTICAL  
Job No. : 2022IT  
Test mode : Communicate with PC

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1082.000	3.88	25.57	39.35	45.78	35.88	74.00	-38.12	Peak
2	1082.000	3.88	25.57	39.35	34.83	24.93	54.00	-29.07	Average
3	1234.000	4.41	26.20	39.15	42.88	34.34	74.00	-39.66	Peak
4	1234.000	4.41	26.20	39.15	34.77	26.23	54.00	-27.77	Average
5	1379.000	4.47	26.73	38.87	45.95	38.27	74.00	-35.73	Peak
6	1379.000	4.47	26.73	38.87	33.30	25.62	54.00	-28.38	Average
7	1599.000	5.11	27.43	38.85	46.40	40.09	74.00	-33.91	Peak
8	1599.000	5.11	27.43	38.85	35.84	29.53	54.00	-24.47	Average
9	1787.000	5.59	27.96	38.80	45.42	40.17	74.00	-33.83	Peak
10	1787.000	5.59	27.96	38.80	35.21	29.96	54.00	-24.04	Average
11	1951.000	5.42	28.38	39.29	48.44	42.95	74.00	-31.05	Peak
12	1951.000	5.42	28.38	39.29	34.11	28.63	54.00	-25.37	Average



Horizontal



Condition : FCC PART15(>1G) PK 3m ANT3117(>1G) HORIZONTAL  
Job No. : 2022IT  
Test mode : Communicate with PC

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1251.000	4.44	26.26	39.26	53.70	45.13	70.00	-24.87	Peak
2	1251.000	4.44	26.26	39.26	34.30	25.73	50.00	-24.27	Average
3	1379.000	4.47	26.73	38.87	53.14	45.46	70.00	-24.54	Peak
4 @	1379.000	4.47	26.73	38.87	33.80	26.12	50.00	-23.88	Average
5	1454.000	4.62	26.99	39.33	53.26	45.53	70.00	-24.47	Peak
6	1454.000	4.62	26.99	39.33	32.10	24.37	50.00	-25.63	Average
7	1526.000	4.84	27.21	39.54	53.25	45.75	70.00	-24.25	Peak
8 @	1526.000	4.84	27.21	39.54	34.70	27.21	50.00	-22.79	Average
9 @	1594.000	5.10	27.41	38.90	53.31	46.92	70.00	-23.08	Peak
10 @	1594.000	5.10	27.41	38.90	37.50	31.11	50.00	-18.89	Average
11 @	1778.000	5.52	27.94	38.94	53.41	47.93	70.00	-22.07	Peak
12 @	1778.000	5.52	27.94	38.94	36.60	31.12	50.00	-18.88	Average