

Partial FCC RF Test Report

APPLICANT : Quanta Computer Inc.
EQUIPMENT : 802.11 b/g/n RTL8191SE miniCard
BRAND NAME : Realtek
MODEL NAME : RTL8191SE
FCC ID : TX2-RTL8191SE
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : Digital Transmission System (DTS)

This is a partial report which is only valid combined with the integrated WLAN module (Brand Name: Realtek / Model Name: RTL8191SE) report. The product was installed into Convertible Tablet Computer [Model Name: NL2** (The“*”can be 0-9, A-Z or blank for the marketing purpose)] during the test.

The product was received on Jan. 29, 2010 and completely tested on Feb. 26, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:



Roy Wu / Manager



SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR021101	Rev. 01	Initial issue of report	Mar. 02, 2010



SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.207	Gen 7.2.2	AC Conducted Emission	15.207(a)	Pass	Under limit 3.31 dB at 0.19 MHz
3.2	15.247(d)	A8.5	Transmitter Radiated Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.45 dB at 147.45 MHz
3.3	15.203 & 15.247(b)	A8.4	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Quanta Computer Inc.

No. 188, Wen Hwa 2nd Rd., Kuei Shan Hsiang, Tao Yuan Shien, Taiwan

1.2 Manufacturer

Quanta Computer Inc.

No. 188, Wen Hwa 2nd Rd., Kuei Shan Hsiang, Tao Yuan Shien, Taiwan

1.3 Main Feature of Equipment Under Test

Product Feature & Specification	
Equipment	802.11 b/g/n RTL8191SE miniCard
Brand Name	Realtek
Model Name	RTL8191SE
FCC ID	TX2-RTL8191SE
Host Convertible Tablet Computer	Model Name: NL2** (The "*" can be 0-9, A-Z or blank for the marketing purpose) HW Version: Version B SW Version: Version 10
Tx/Rx Frequency Range	2400 MHz ~ 2483.5 MHz
Number of Channels	11
Carrier Frequency of Each Channel	2412+(n-1)*5 MHz; n=1~11
Channel Spacing	5 MHz
Antenna Type	WLAN Main Antenna : PIFA Antenna with gain 2.8 dBi WLAN Aux. Antenna : PIFA Antenna with gain 2.8 dBi
Type of Modulation	802.11b : DSSS (BPSK / QPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
EUT Stage	Production Unit

Remark:

1. This test report recorded only product characteristics and test results of Digital Transmission System (DTS).
2. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Testing Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.	
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
Test Site No.	Sporton Site No.	
	CO01-KS	03CH01-KS

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 (Measurement Guidelines of DTS)
- ♦ ANSI C63.4-2003
- ♦ IC RSS-210 Issue 7

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B (DoC), recorded in a separate test report.

1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Earphone	Intopic	Jazz-278	FCC DoC	Shielded, 2.2 m	Unshielded, 1.8 m
2.	(USB)Mouse	DELL	MO56UC	FCC DoC	Shielded, 1.8 m	N/A
3.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
4.	Monitor	Q-Bell	L91C	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m

2 Test Configuration of Equipment Under Test

2.1 Test Mode

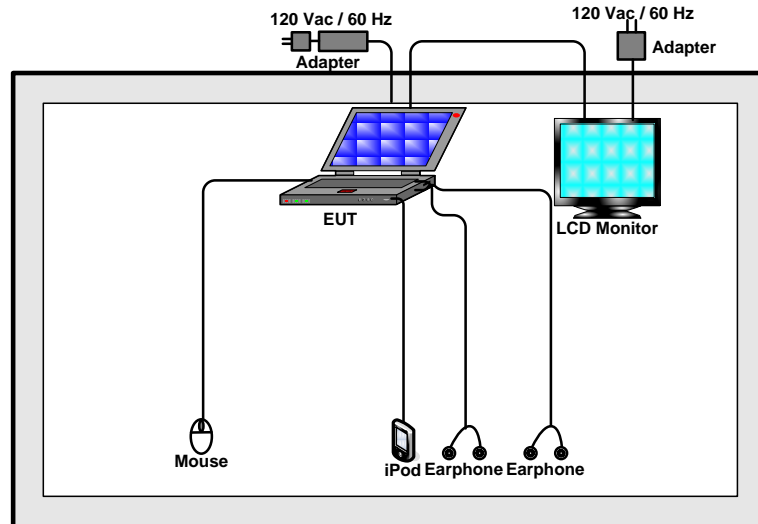
The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz), radiated emission (30 MHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

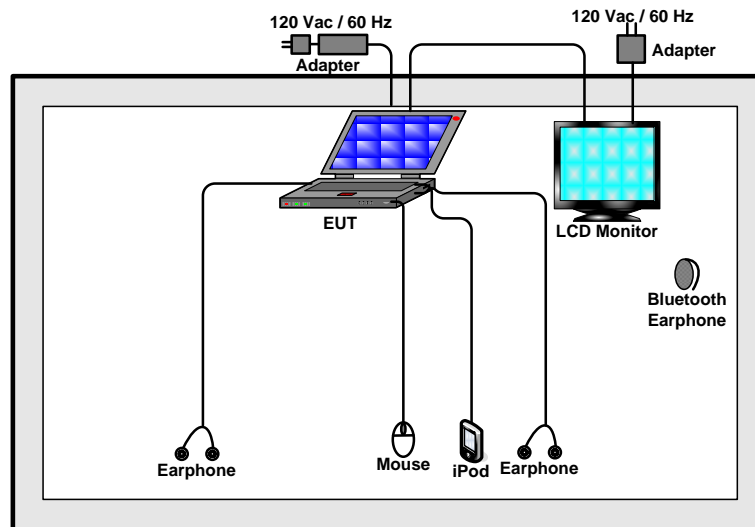
Test Cases		
Radiated TCs	802.11b (DSSS)	Mode 1 : 802.11b CH01_2412 MHz in Laptop Mode Mode 2 : 802.11b CH06_2437 MHz in Laptop Mode Mode 3 : 802.11b CH11_2462 MHz in Laptop Mode Mode 4 : 802.11b CH01_2412 MHz in Tablet Mode
	802.11g/n (OFDM)	Mode 5: 802.11g_CH01_2412 MHz in Laptop Mode Mode 6: 802.11g_CH06_2437 MHz in Laptop Mode Mode 7: 802.11g_CH11_2462 MHz in Laptop Mode Mode 8: 802.11g_CH01_2412 MHz in Tablet Mode Mode 9: 802.11n (BW 20M)_CH01_2412 MHz in Laptop Mode Mode 10: 802.11n (BW 20M)_CH06_2437 MHz in Laptop Mode Mode 11: 802.11n (BW 20M)_CH11_2462 MHz in Laptop Mode Mode 12: 802.11n (BW 20M)_CH01_2412 MHz in Tablet Mode Mode 13: 802.11n (BW 40M)_CH03_2422 MHz in Laptop Mode Mode 14: 802.11n (BW 40M)_CH06_2437 MHz in Laptop Mode Mode 15: 802.11n (BW 40M)_CH09_2452 MHz in Laptop Mode Mode 16: 802.11n (BW 40M)_CH03_2422 MHz in Tablet Mode
AC Conducted Emission	Mode 1 : WLAN Link + Bluetooth Link + Adapter	

2.2 Connection Diagram of Test System

<Radiation>



<Conduction>



2.3 RF Utility

The programmed RF utility “REALTEK 11n Single Chip” is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

3 Test Result

3.1 AC Conducted Emission Measurement

3.1.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

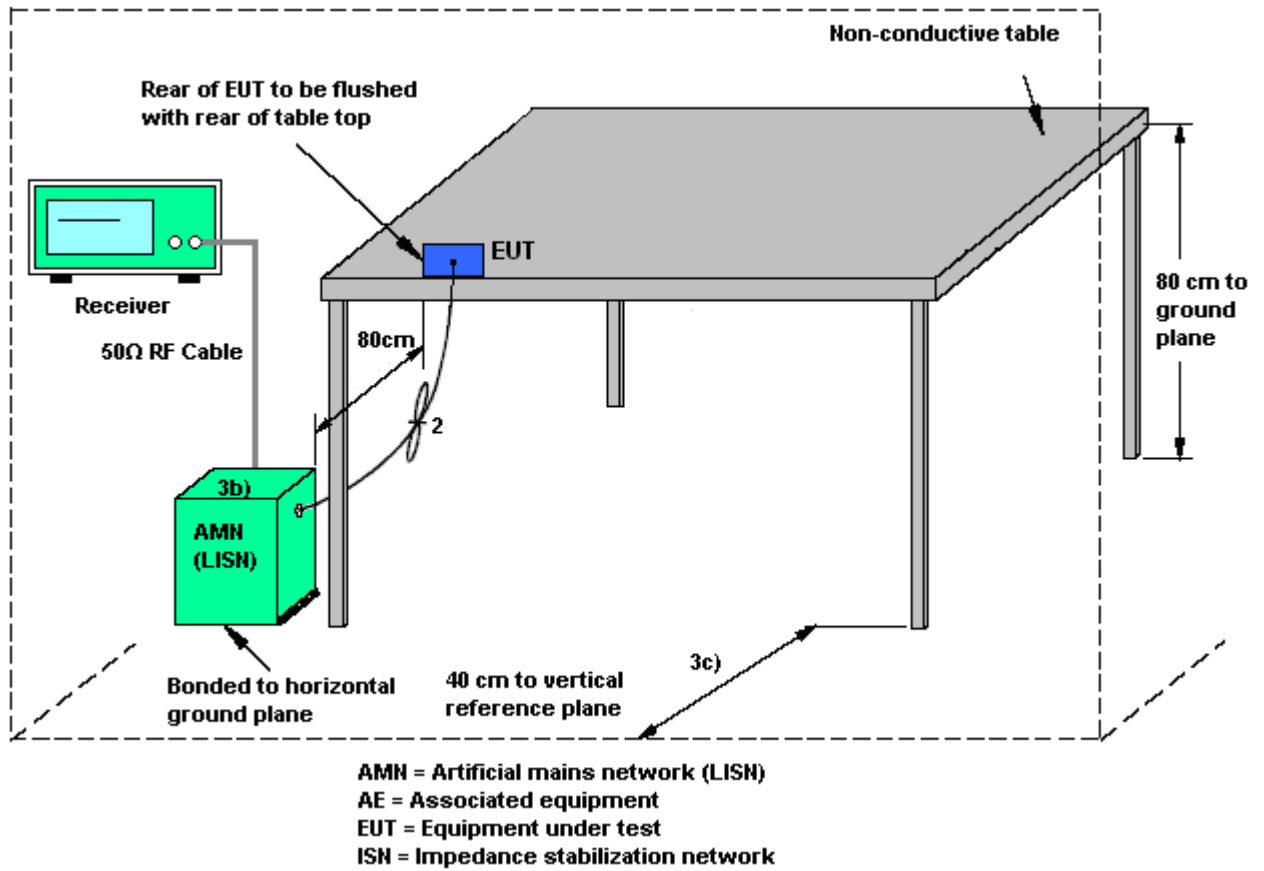
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The testing follows the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 kHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

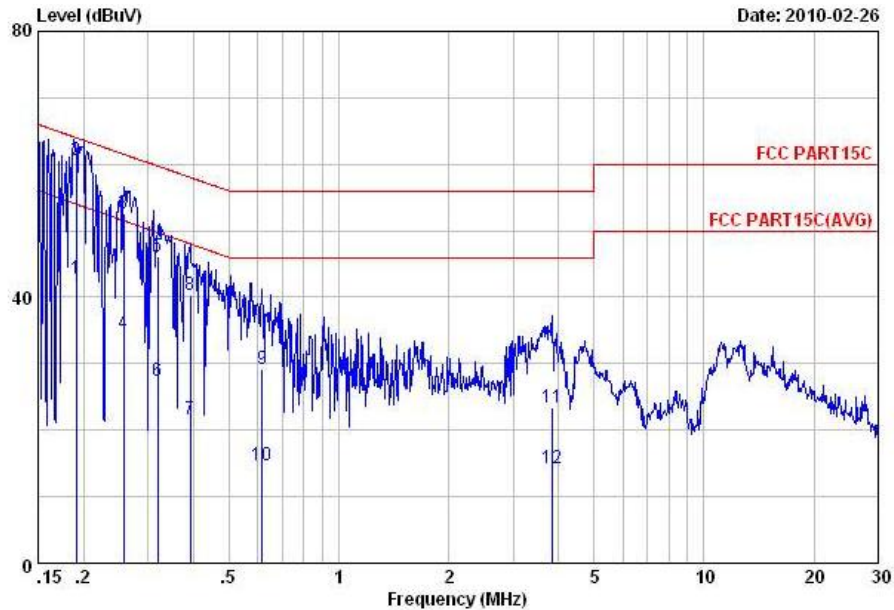
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	22~23°C
Test Engineer :	Mark Qu	Relative Humidity :	52~53%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN Link + Bluetooth Link + Adapter		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



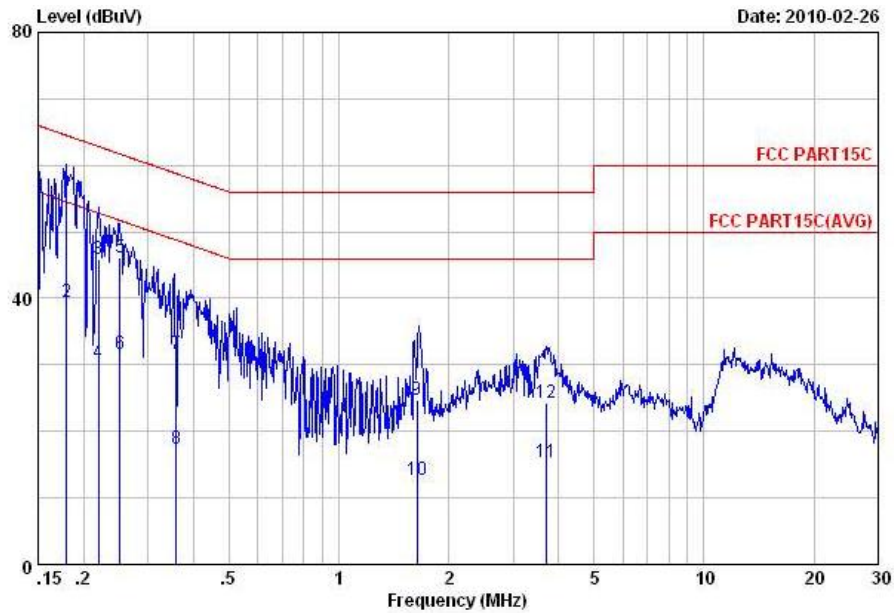
Site : C001-KS
 Condition: FCC PART15C LISN-071001 LINE

Memo : mode 1

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.19	42.78	-11.21	53.99	32.70	-0.07	10.15	Average
2	0.19	60.68	-3.31	63.99	50.60	-0.07	10.15	QP
3	0.26	52.49	-9.04	61.53	42.40	-0.07	10.16	QP
4	0.26	34.59	-16.94	51.53	24.50	-0.07	10.16	Average
5	0.32	46.20	-13.53	59.73	36.11	-0.08	10.17	QP
6	0.32	27.40	-22.33	49.73	17.31	-0.08	10.17	Average
7	0.39	21.71	-26.33	48.04	11.60	-0.08	10.19	Average
8	0.39	40.41	-17.63	58.04	30.30	-0.08	10.19	QP
9	0.62	29.24	-26.76	56.00	19.11	-0.09	10.22	QP
10	0.62	14.74	-31.26	46.00	4.61	-0.09	10.22	Average
11	3.84	23.36	-32.64	56.00	13.10	-0.13	10.39	QP
12	3.84	14.16	-31.84	46.00	3.90	-0.13	10.39	Average



Test Mode :	Mode 1	Temperature :	22~23°C
Test Engineer :	Mark Qu	Relative Humidity :	52~53%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN Link + Bluetooth Link + Adapter		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : C001-KS
 Condition: FCC PART15C LISN-071001 NEUTRAL

Memo : mode 1

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.18	56.47	-8.03	64.50	46.40	-0.08	10.15	QP
2	0.18	39.37	-15.13	54.50	29.30	-0.08	10.15	Average
3	0.22	45.98	-16.85	62.83	35.90	-0.07	10.15	QP
4	0.22	30.28	-22.55	52.83	20.20	-0.07	10.15	Average
5	0.25	46.19	-15.53	61.72	36.10	-0.07	10.16	QP
6	0.25	31.59	-20.13	51.72	21.50	-0.07	10.16	Average
7	0.36	31.71	-27.04	58.75	21.61	-0.08	10.18	QP
8	0.36	17.31	-31.44	48.75	7.21	-0.08	10.18	Average
9	1.64	24.80	-31.20	56.00	14.60	-0.11	10.31	QP
10	1.64	12.80	-33.20	46.00	2.60	-0.11	10.31	Average
11	3.70	15.36	-30.64	46.00	5.11	-0.13	10.38	Average
12	3.70	24.26	-31.74	56.00	14.01	-0.13	10.38	QP

3.2 Radiated Emission Measurement

3.2.1 Limit of Radiated Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

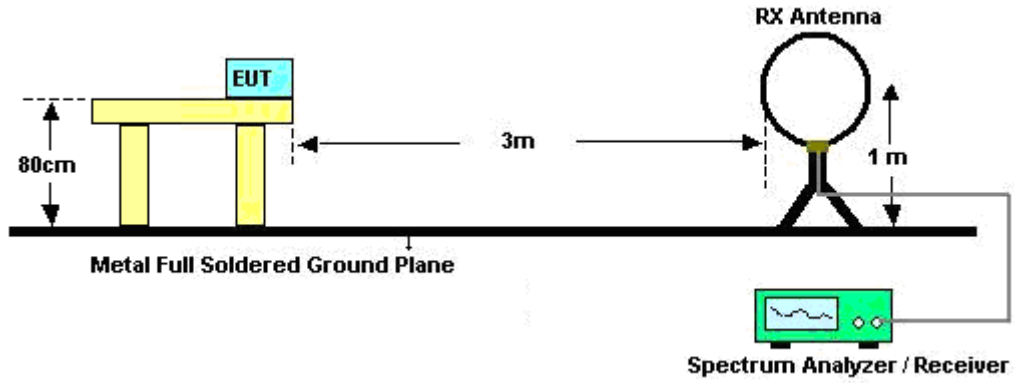
See list of measuring instruments of this test report.

3.2.3 Test Procedures

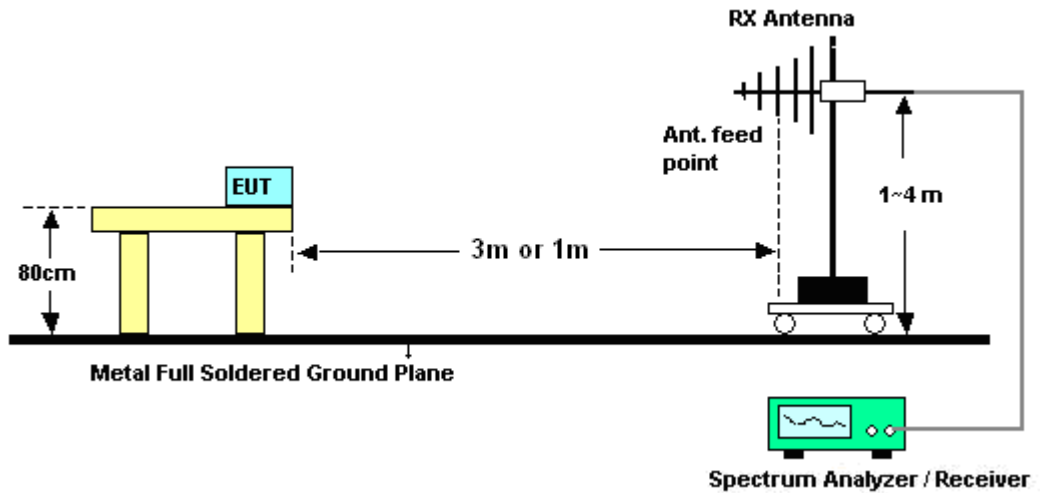
1. The testing follows the guidelines in FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Use the following spectrum analyzer settings:
 - (1) Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold.
 - (2) Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.
 Distance extrapolation factor = $20 \log(\text{specific distance [3m]} / \text{test distance [1m]})$ (dB)
3. Follow the guidelines in ANSI C63.4-2003 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

3.2.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz





3.2.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

Test Engineer :	Harvey Tang	Temperature :	23~24°C	
		Relative Humidity :	45~46%	
Frequency (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

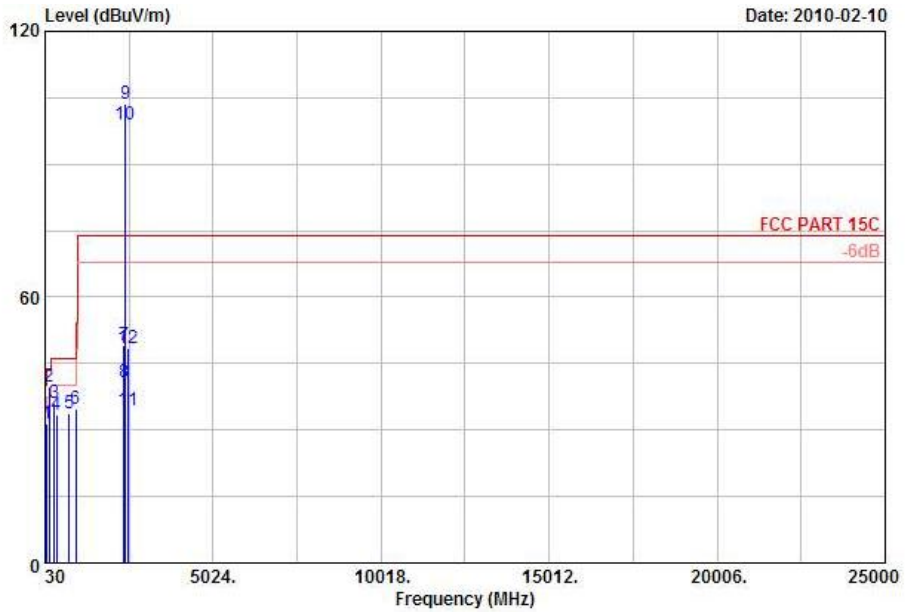
Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.



3.2.6 Test Result of Radiated Emission (30 MHz ~ 10th Harmonic)

Test Mode :	Mode 1	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



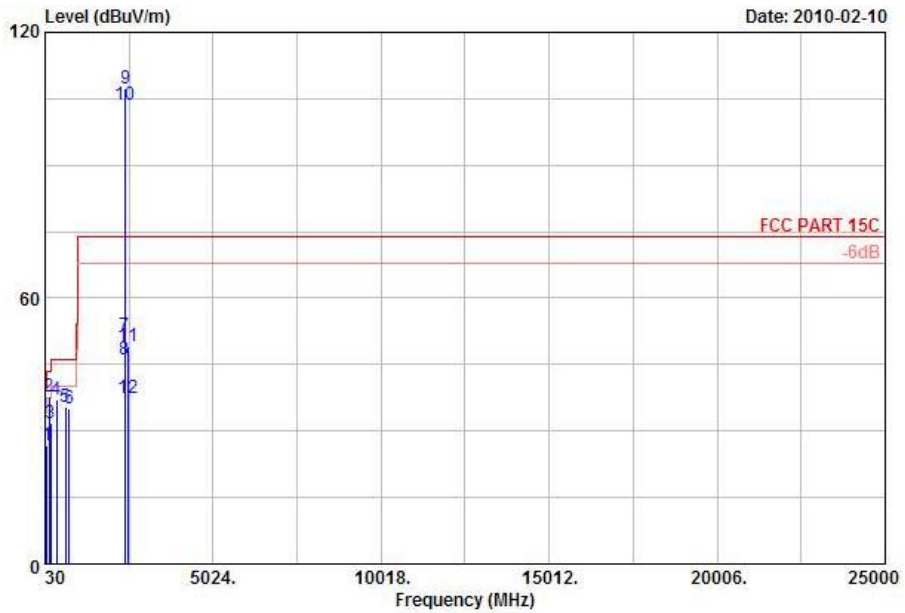
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

Equipment : Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	74.82	31.36	-8.64	40.00	53.83	5.80	0.37	28.64	---	---	Peak
2	147.45	39.85	-3.65	43.50	57.70	10.21	0.58	28.64	204	---	QP
3	295.14	36.12	-9.88	46.00	51.30	12.93	0.78	28.89	---	---	Peak
4	376.30	33.44	-12.56	46.00	46.18	15.30	0.86	28.90	---	---	Peak
5	752.90	33.75	-12.25	46.00	40.49	19.90	1.19	27.83	---	---	Peak
6	932.80	34.76	-11.24	46.00	39.63	20.65	1.31	26.83	---	---	Peak
7	2376.00	49.17	-24.83	74.00	48.05	32.83	3.13	34.84	100	---	263 Peak
8	2376.00	40.65	-13.35	54.00	39.53	32.83	3.13	34.84	100	---	263 Average
9 X	2412.00	103.48	.....	.....	102.28	32.89	3.15	34.84	100	---	263 Peak
10 X	2412.00	98.91	.....	.....	97.71	32.89	3.15	34.84	100	---	263 Average
11	2496.00	34.55	-19.45	54.00	33.14	33.05	3.21	34.85	100	---	309 Average
12	2496.00	48.57	-25.43	74.00	47.16	33.05	3.21	34.85	100	---	309 Peak



Test Mode :	Mode 1	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



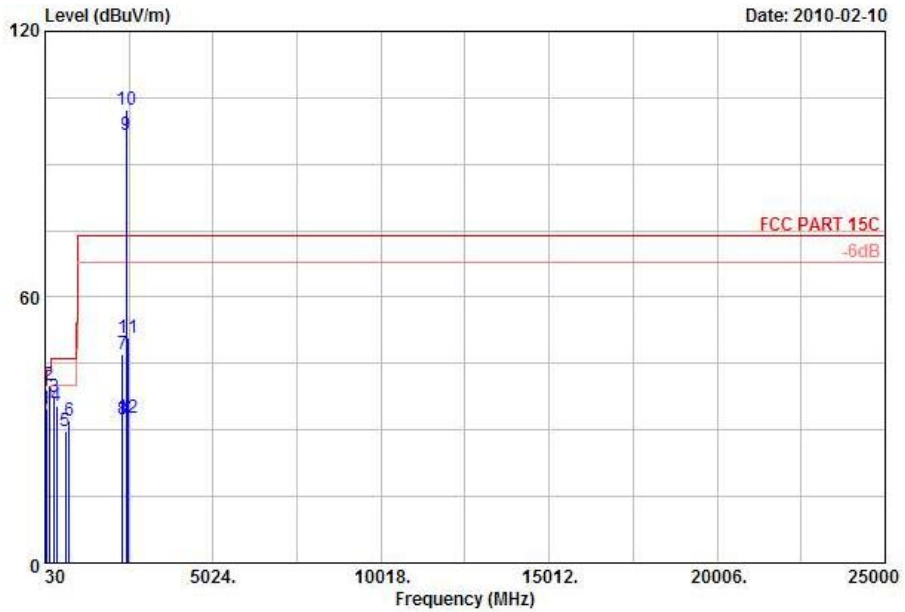
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	75.63	26.77	-13.23	40.00	49.11	5.93	0.37	28.64	---	Peak
2	147.45	37.65	-5.85	43.50	55.50	10.21	0.58	28.64	100	68 QP
3	192.00	31.91	-11.59	43.50	51.37	8.59	0.65	28.70	---	Peak
4	377.70	37.21	-8.79	46.00	49.91	15.34	0.86	28.90	---	Peak
5	645.80	35.55	-10.45	46.00	43.92	18.88	1.09	28.34	---	Peak
6	755.70	35.17	-10.83	46.00	41.90	19.90	1.19	27.82	---	Peak
7	2388.00	51.45	-22.55	74.00	50.30	32.86	3.13	34.84	103	301 Peak
8	2388.00	46.01	-7.99	54.00	44.86	32.86	3.13	34.84	103	301 Average
9 X	2412.00	107.29	---	---	106.09	32.89	3.15	34.84	103	301 Peak
10 X	2412.00	103.72	---	---	102.52	32.89	3.15	34.84	103	301 Average
11	2494.00	49.04	-24.96	74.00	47.63	33.05	3.21	34.85	100	149 Peak
12	2494.00	37.47	-16.53	54.00	36.06	33.05	3.21	34.85	100	149 Average



Test Mode :	Mode 2	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



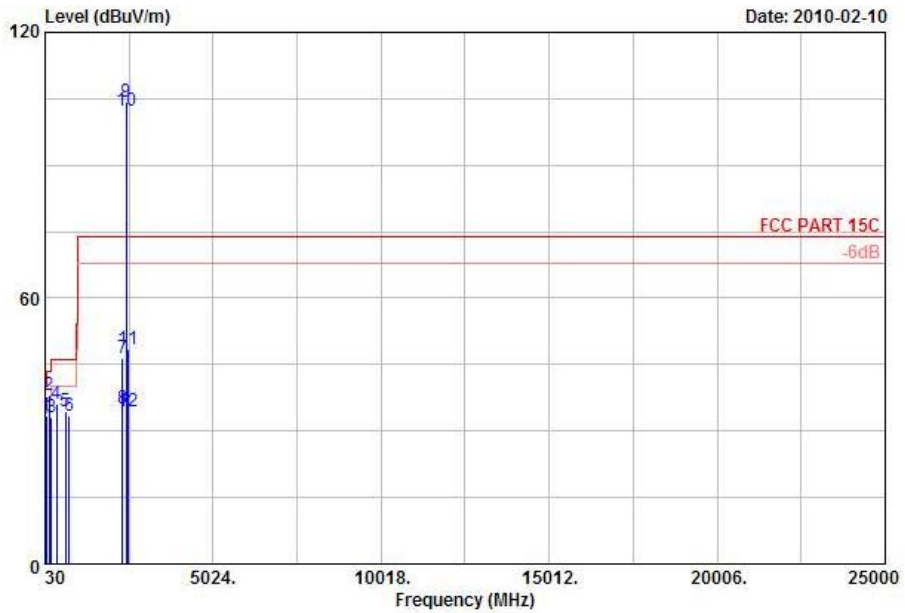
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 !	72.39	34.63	-5.37	40.00	57.32	5.55	0.37	28.61	---	Peak
2 !	147.45	40.12	-3.38	43.50	57.97	10.21	0.58	28.64	---	Peak
3	295.14	37.28	-8.72	46.00	52.46	12.93	0.78	28.89	---	Peak
4	376.30	35.43	-10.57	46.00	48.17	15.30	0.86	28.90	---	Peak
5	645.10	29.67	-16.33	46.00	38.04	18.88	1.09	28.34	---	Peak
6	756.40	32.20	-13.80	46.00	38.92	19.90	1.20	27.82	---	Peak
7	2332.00	47.11	-26.89	74.00	46.08	32.76	3.10	34.83	100	144 Peak
8	2332.00	32.40	-21.60	54.00	31.37	32.76	3.10	34.83	100	144 Average
9 X	2437.00	96.51	---	---	95.23	32.95	3.17	34.84	100	264 Average
10 X	2437.00	102.16	---	---	100.88	32.95	3.17	34.84	100	264 Peak
11	2496.00	50.88	-23.12	74.00	49.47	33.05	3.21	34.85	100	356 Peak
12	2496.00	32.64	-21.36	54.00	31.23	33.05	3.21	34.85	100	356 Average



Test Mode :	Mode 2	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

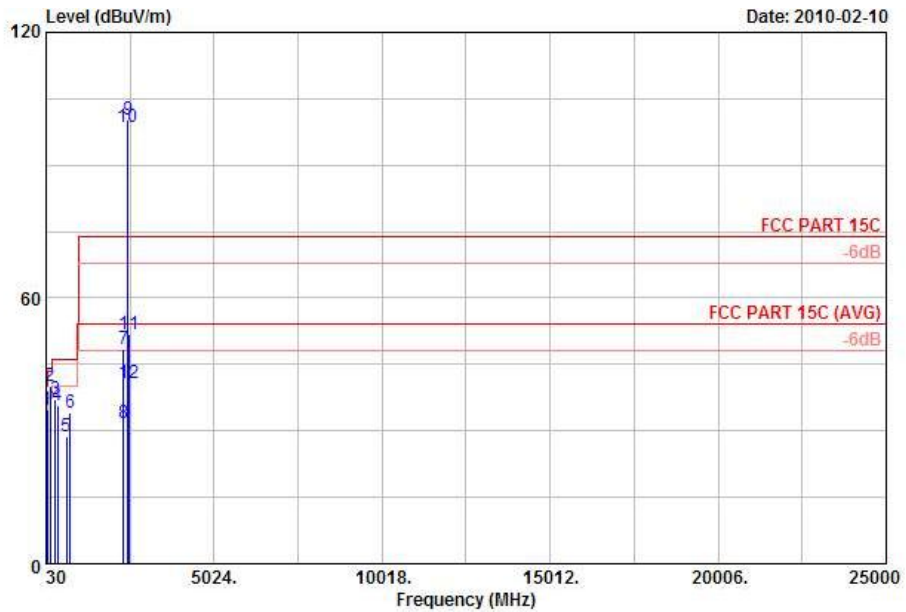


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

	Site	Condition	Project	Power	Device	Antenna	Cable	Preamp	Ant Pos	Table Pos	Remark
	Site	Condition	Project	Power	Device	Antenna	Cable	Preamp	Ant Pos	Table Pos	Remark
	Site	Condition	Project	Power	Device	Antenna	Cable	Preamp	Ant Pos	Table Pos	Remark
					Laptop						
Line	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB	cm	deg	
1	54.03	33.36	-6.64	40.00	55.16	6.49	0.33	28.62	---	---	Peak
2	147.45	38.23	-5.27	43.50	56.08	10.21	0.58	28.64	---	---	Peak
3	221.16	33.19	-12.81	46.00	51.06	10.17	0.69	28.73	---	---	Peak
4	376.30	35.97	-10.03	46.00	48.71	15.30	0.86	28.90	---	---	Peak
5	645.80	34.29	-11.71	46.00	42.66	18.88	1.09	28.34	---	---	Peak
6	753.60	33.31	-12.69	46.00	40.04	19.90	1.19	27.82	---	---	Peak
7	2324.00	46.33	-27.67	74.00	45.30	32.76	3.10	34.83	100		121 Peak
8	2324.00	35.17	-18.83	54.00	34.14	32.76	3.10	34.83	100		121 Average
9 X	2437.00	104.34			103.06	32.95	3.17	34.84	131		299 Peak
10 X	2437.00	102.17			100.89	32.95	3.17	34.84	131		299 Average
11	2492.00	48.37	-25.63	74.00	46.96	33.05	3.21	34.85	100		36 Peak
12	2492.00	34.37	-19.63	54.00	32.96	33.05	3.21	34.85	100		36 Average



Test Mode :	Mode 3	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

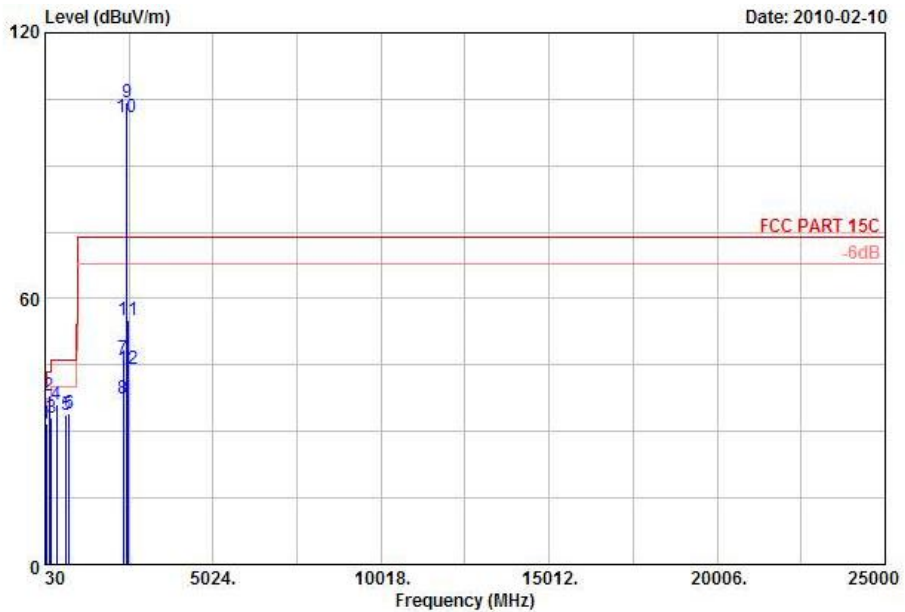


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

	Site	Condition	Project	Power	Device	Antenna	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	Level	Over	Limit	Read	Antenna	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	dB	cm	deg	Remark
1	72.39	34.60	-5.40	40.00	57.29	5.55	0.37	28.61				Peak
2	147.45	40.12	-3.38	43.50	57.97	10.21	0.58	28.64				Peak
3	295.14	37.12	-8.88	46.00	52.30	12.93	0.78	28.89				Peak
4	376.30	35.91	-10.09	46.00	48.65	15.30	0.86	28.90				Peak
5	645.10	28.71	-17.29	46.00	37.08	18.88	1.09	28.34				Peak
6	752.90	33.96	-12.04	46.00	40.70	19.90	1.19	27.83				Peak
7	2324.00	48.35	-25.65	74.00	47.32	32.76	3.10	34.83		100		124 Peak
8	2324.00	31.61	-22.39	54.00	30.58	32.76	3.10	34.83		100		124 Average
9	2462.00	100.44			99.13	32.98	3.18	34.85		132		245 Peak
10	2462.00	98.67			97.36	32.98	3.18	34.85		132		245 Average
11	2484.00	51.96	-22.04	74.00	50.60	33.01	3.20	34.85		132		245 Peak
12	2484.00	40.94	-13.06	54.00	39.58	33.01	3.20	34.85		132		245 Average



Test Mode :	Mode 3	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



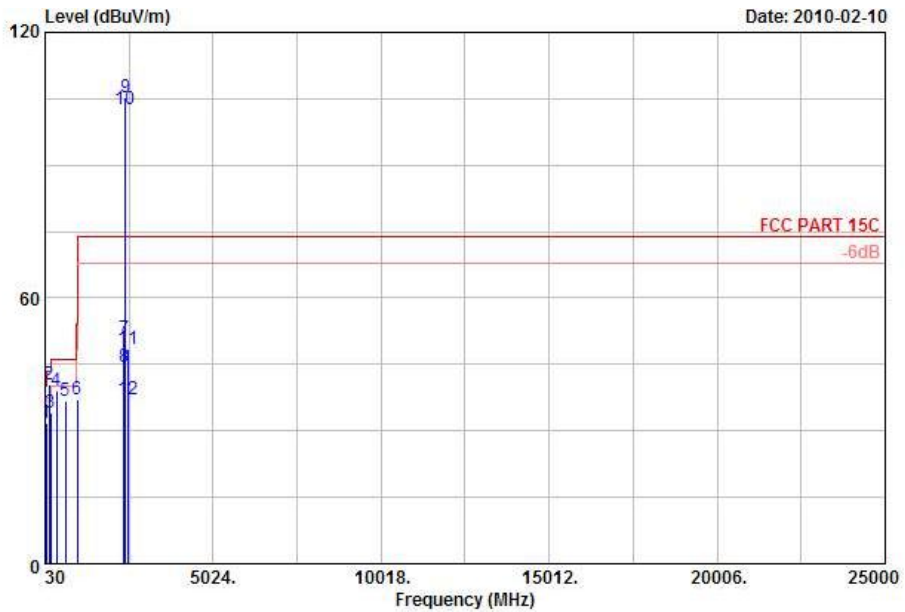
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBUV/m	dB	dBUV/m	dBuV	Loss	Factor	Pos	Pos	
						dB	dB	cm	deg	
1	54.03	31.62	-8.38	40.00	53.42	6.49	0.33	28.62	---	Peak
2	147.45	38.14	-5.36	43.50	55.99	10.21	0.58	28.64	---	Peak
3	221.16	33.11	-12.89	46.00	50.98	10.17	0.69	28.73	---	Peak
4	376.30	35.98	-10.02	46.00	48.72	15.30	0.86	28.90	---	Peak
5	647.90	33.65	-12.35	46.00	41.99	18.89	1.10	28.33	---	Peak
6	756.40	34.11	-11.89	46.00	40.83	19.90	1.20	27.82	---	Peak
7	2344.00	46.31	-27.69	74.00	45.24	32.78	3.12	34.83	100	234 Peak
8	2344.00	37.28	-16.72	54.00	36.21	32.78	3.12	34.83	100	234 Average
9 X	2462.00	104.23			102.92	32.98	3.18	34.85	131	296 Peak
10 X	2462.00	100.95			99.64	32.98	3.18	34.85	131	296 Average
11	2484.00	55.31	-18.69	74.00	53.95	33.01	3.20	34.85	131	296 Peak
12	2484.00	44.19	-9.81	54.00	42.83	33.01	3.20	34.85	131	296 Average



Test Mode :	Mode 4	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

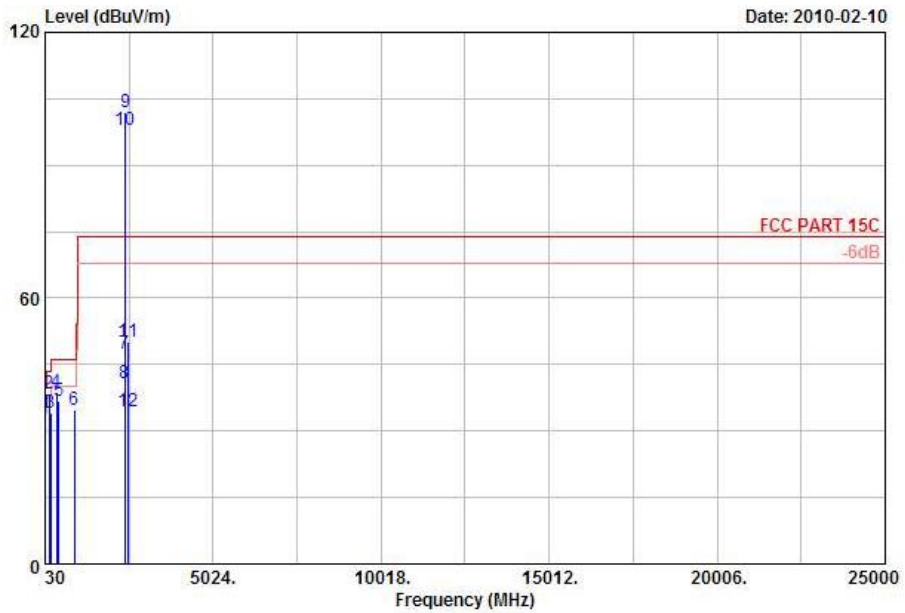


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

	Tablet	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		MHz	dBUV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
				dB	dBUV/m	dBuV	dB/m	dB	dB	cm	deg	
1		73.74	31.71	-8.29	40.00	54.29	5.68	0.37	28.63	---	---	Peak
2	!	147.45	40.55	-2.95	43.50	58.40	10.21	0.58	28.64	194	378	QP
3		192.00	34.16	-9.34	43.50	53.62	8.59	0.65	28.70	---	---	Peak
4		377.70	39.19	-6.81	46.00	51.89	15.34	0.86	28.90	---	---	Peak
5		645.80	36.81	-9.19	46.00	45.18	18.88	1.09	28.34	---	---	Peak
6		996.50	37.16	-16.84	54.00	41.16	21.08	1.35	26.43	---	---	Peak
7		2386.00	50.81	-23.19	74.00	49.66	32.86	3.13	34.84	178	262	Peak
8		2386.00	44.61	-9.39	54.00	43.46	32.86	3.13	34.84	178	262	Average
9	X	2412.00	105.39			104.19	32.89	3.15	34.84	178	262	Peak
10	X	2412.00	102.77			101.57	32.89	3.15	34.84	178	262	Average
11		2494.00	48.45	-25.55	74.00	47.04	33.05	3.21	34.85	100	134	Peak
12		2494.00	37.12	-16.88	54.00	35.71	33.05	3.21	34.85	100	134	Average



Test Mode :	Mode 4	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

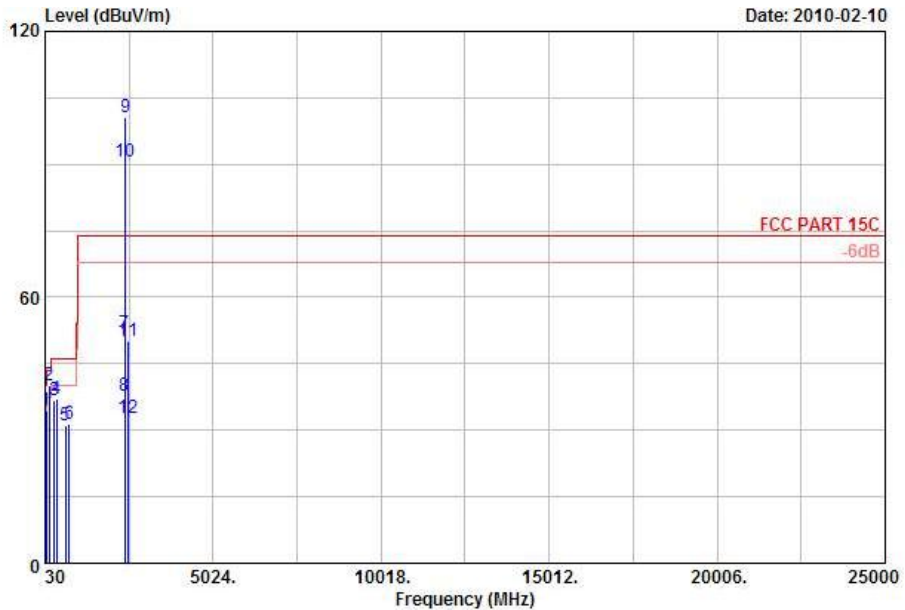


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Tablet E1 plane											
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	48.09	34.08	-5.92	40.00	54.28	8.12	0.31	28.63	---	---	Peak
2	147.45	38.34	-5.16	43.50	56.19	10.21	0.58	28.64	---	---	Peak
3	192.00	33.94	-9.56	43.50	53.40	8.59	0.65	28.70	---	---	Peak
4	377.70	38.83	-7.17	46.00	51.53	15.34	0.86	28.90	---	---	Peak
5	431.60	36.77	-9.23	46.00	48.60	16.20	0.90	28.93	---	---	Peak
6	897.80	34.66	-11.34	46.00	39.97	20.45	1.29	27.05	---	---	Peak
7	2388.00	47.36	-26.64	74.00	46.21	32.86	3.13	34.84	100	---	196 Peak
8	2388.00	40.64	-13.36	54.00	39.49	32.86	3.13	34.84	100	---	196 Average
9 X	2412.00	102.08	---	---	100.88	32.89	3.15	34.84	100	---	196 Peak
10 X	2412.00	98.10	---	---	96.90	32.89	3.15	34.84	100	---	196 Average
11	2496.00	50.00	-24.00	74.00	48.59	33.05	3.21	34.85	100	---	325 Peak
12	2496.00	34.36	-19.64	54.00	32.95	33.05	3.21	34.85	100	---	325 Average



Test Mode :	Mode 5	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



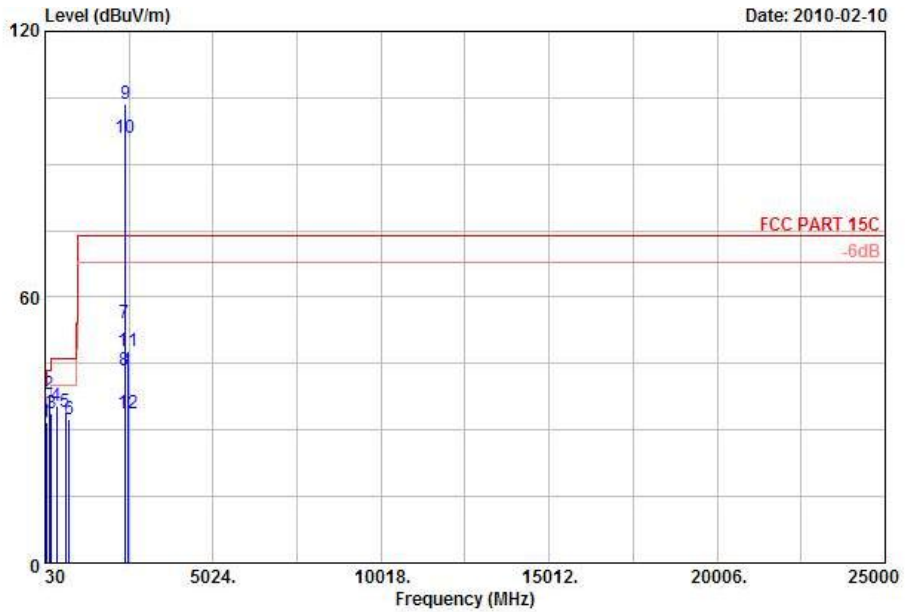
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	72.39	34.44	-5.56	40.00	57.13	5.55	0.37	28.61	---	Peak
2	147.45	40.24	-3.26	43.50	58.09	10.21	0.58	28.64	---	Peak
3	295.14	36.85	-9.15	46.00	52.03	12.93	0.78	28.89	---	Peak
4	376.30	37.02	-8.98	46.00	49.76	15.30	0.86	28.90	---	Peak
5	645.10	30.92	-15.08	46.00	39.29	18.88	1.09	28.34	---	Peak
6	755.70	31.51	-14.49	46.00	38.24	19.90	1.19	27.82	---	Peak
7	2390.00	51.82	-22.18	74.00	50.65	32.86	3.15	34.84	100	264 Peak
8	2390.00	37.92	-16.08	54.00	36.75	32.86	3.15	34.84	100	264 Average
9 X	2412.00	100.61	---	---	99.41	32.89	3.15	34.84	100	264 Peak
10 X	2412.00	90.62	---	---	89.42	32.89	3.15	34.84	100	264 Average
11	2492.00	50.02	-23.98	74.00	48.61	33.05	3.21	34.85	100	23 Peak
12	2492.00	32.78	-21.22	54.00	31.37	33.05	3.21	34.85	100	23 Average



Test Mode :	Mode 5	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



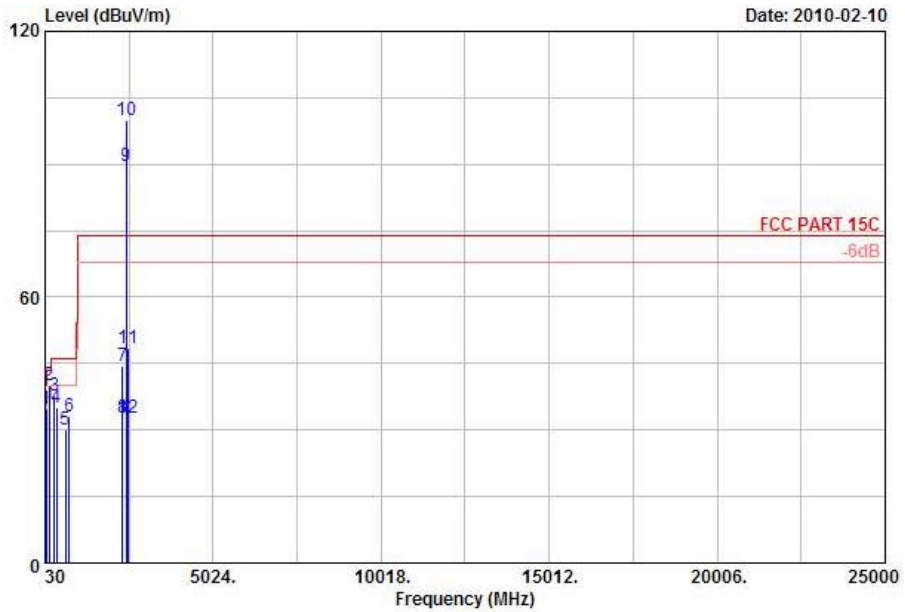
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	Factor	dB	cm	deg	
1	54.03	31.68	-8.32	40.00	53.48	6.49	0.33	28.62	---	Peak
2	147.45	38.20	-5.30	43.50	56.05	10.21	0.58	28.64	---	Peak
3	221.16	33.90	-12.10	46.00	51.77	10.17	0.69	28.73	---	Peak
4	376.30	35.52	-10.48	46.00	48.26	15.30	0.86	28.90	---	Peak
5	646.50	34.22	-11.78	46.00	42.58	18.89	1.09	28.34	---	Peak
6	756.40	32.43	-13.57	46.00	39.15	19.90	1.20	27.82	---	Peak
7	2390.00	54.20	-19.80	74.00	53.03	32.86	3.15	34.84	134	300 Peak
8	2390.00	43.54	-10.46	54.00	42.37	32.86	3.15	34.84	134	300 Average
9 X	2412.00	103.56			102.36	32.89	3.15	34.84	134	300 Peak
10 X	2412.00	96.07			94.87	32.89	3.15	34.84	134	300 Average
11	2498.00	47.64	-26.36	74.00	46.23	33.05	3.21	34.85	100	39 Peak
12	2498.00	33.76	-20.24	54.00	32.35	33.05	3.21	34.85	100	39 Average



Test Mode :	Mode 6	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



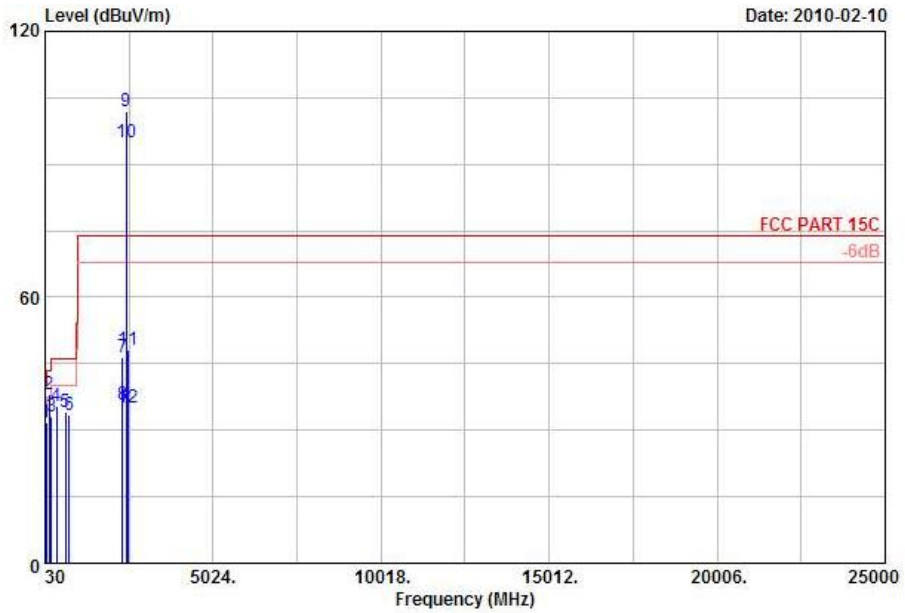
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 !	72.39	34.62	-5.38	40.00	57.31	5.55	0.37	28.61	---	Peak
2 !	147.45	40.09	-3.41	43.50	57.94	10.21	0.58	28.64	---	Peak
3	295.14	37.83	-8.17	46.00	53.01	12.93	0.78	28.89	---	Peak
4	377.70	35.15	-10.85	46.00	47.85	15.34	0.86	28.90	---	Peak
5	645.10	29.92	-16.08	46.00	38.29	18.88	1.09	28.34	---	Peak
6	756.40	33.14	-12.86	46.00	39.86	19.90	1.20	27.82	---	Peak
7	2332.00	44.59	-29.41	74.00	43.56	32.76	3.10	34.83	100	126 Peak
8	2332.00	32.68	-21.32	54.00	31.65	32.76	3.10	34.83	100	126 Average
9 X	2437.00	89.62			88.34	32.95	3.17	34.84	100	264 Average
10 X	2437.00	100.05			98.77	32.95	3.17	34.84	100	264 Peak
11	2498.00	48.55	-25.45	74.00	47.14	33.05	3.21	34.85	100	256 Peak
12	2498.00	32.82	-21.18	54.00	31.41	33.05	3.21	34.85	100	256 Average



Test Mode :	Mode 6	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



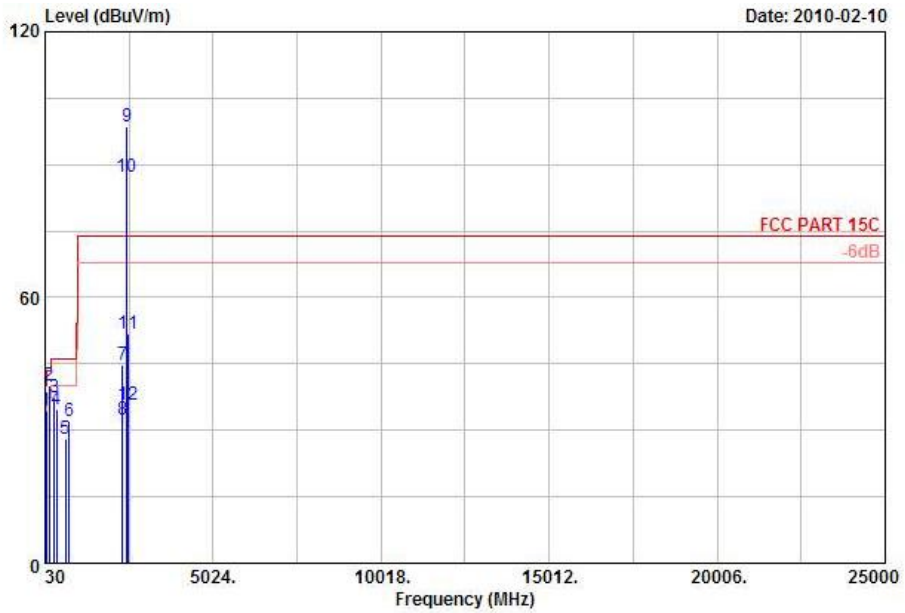
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

Host : Laptop

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	54.03	31.74	-8.26	40.00	53.54	6.49	0.33	28.62	---	---	Peak
2	147.45	38.09	-5.41	43.50	55.94	10.21	0.58	28.64	---	---	Peak
3	221.16	33.18	-12.82	46.00	51.05	10.17	0.69	28.73	---	---	Peak
4	377.00	35.35	-10.65	46.00	48.05	15.34	0.86	28.90	---	---	Peak
5	645.80	33.94	-12.06	46.00	42.31	18.88	1.09	28.34	---	---	Peak
6	752.90	33.34	-12.66	46.00	40.08	19.90	1.19	27.83	---	---	Peak
7	2328.00	46.58	-27.42	74.00	45.55	32.76	3.10	34.83	100	---	345 Peak
8	2328.00	35.63	-18.37	54.00	34.60	32.76	3.10	34.83	100	---	345 Average
9 X	2437.00	101.94	---	---	100.66	32.95	3.17	34.84	131	---	300 Peak
10 X	2437.00	95.03	---	---	93.75	32.95	3.17	34.84	131	---	300 Average
11	2496.00	48.08	-25.92	74.00	46.67	33.05	3.21	34.85	100	---	31 Peak
12	2496.00	34.97	-19.03	54.00	33.56	33.05	3.21	34.85	100	---	31 Average



Test Mode :	Mode 7	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



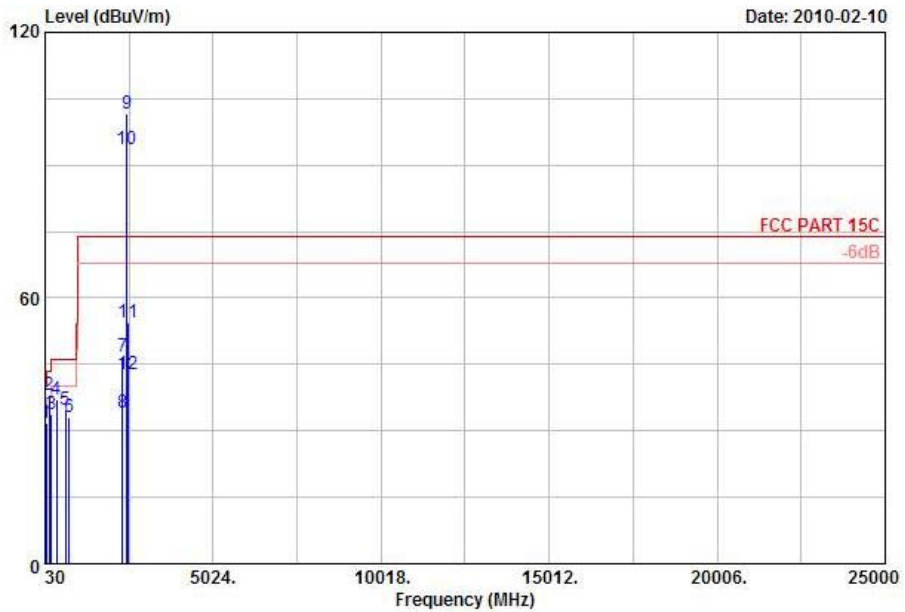
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB	dB	cm	deg	
1	72.39	34.29	-5.71	40.00	56.98	5.55	0.37	28.61	---	Peak
2	147.45	40.08	-3.42	43.50	57.93	10.21	0.58	28.64	---	Peak
3	295.14	37.28	-8.72	46.00	52.46	12.93	0.78	28.89	---	Peak
4	377.00	34.89	-11.11	46.00	47.59	15.34	0.86	28.90	---	Peak
5	645.80	28.00	-18.00	46.00	36.37	18.88	1.09	28.34	---	Peak
6	752.90	32.07	-13.93	46.00	38.81	19.90	1.19	27.83	---	Peak
7	2326.00	44.75	-29.25	74.00	43.72	32.76	3.10	34.83	100	0 Peak
8	2326.00	32.33	-21.67	54.00	31.30	32.76	3.10	34.83	100	0 Average
9 X	2462.00	98.68	---	---	97.37	32.98	3.18	34.85	100	269 Peak
10 X	2462.00	87.22	---	---	85.91	32.98	3.18	34.85	100	269 Average
11	2484.00	51.92	-22.08	74.00	50.56	33.01	3.20	34.85	100	269 Peak
12	2484.00	35.87	-18.13	54.00	34.51	33.01	3.20	34.85	100	269 Average



Test Mode :	Mode 7	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

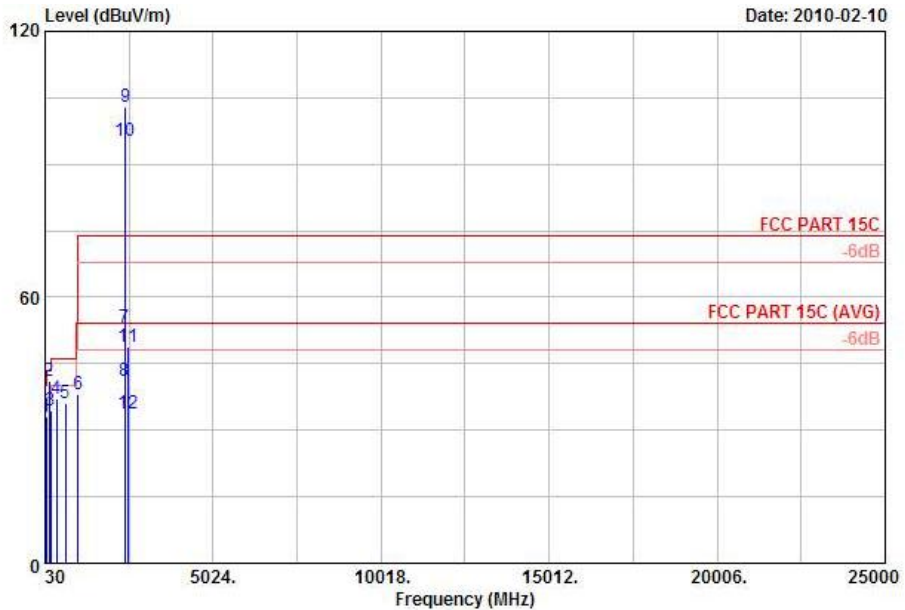


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

	Site	Condition	Project	Power	Device	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
					Laptop	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1						54.03	31.79	-8.21	40.00	53.59	6.49	0.33	28.62	---	---	Peak
2						147.45	37.98	-5.52	43.50	55.83	10.21	0.58	28.64	---	---	Peak
3						221.16	33.63	-12.37	46.00	51.50	10.17	0.69	28.73	---	---	Peak
4						376.30	37.06	-8.94	46.00	49.80	15.30	0.86	28.90	---	---	Peak
5						645.10	34.65	-11.35	46.00	43.02	18.88	1.09	28.34	---	---	Peak
6						756.40	32.99	-13.01	46.00	39.71	19.90	1.20	27.82	---	---	Peak
7						2330.00	46.85	-27.15	74.00	45.82	32.76	3.10	34.83	100	---	89 Peak
8						2330.00	34.18	-19.82	54.00	33.15	32.76	3.10	34.83	100	---	89 Average
9	X					2462.00	101.59			100.28	32.98	3.18	34.85	100	---	301 Peak
10	X					2462.00	93.63			92.32	32.98	3.18	34.85	100	---	301 Average
11						2484.00	54.37	-19.63	74.00	53.01	33.01	3.20	34.85	100	---	301 Peak
12						2484.00	42.66	-11.34	54.00	41.30	33.01	3.20	34.85	100	---	301 Average



Test Mode :	Mode 8	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

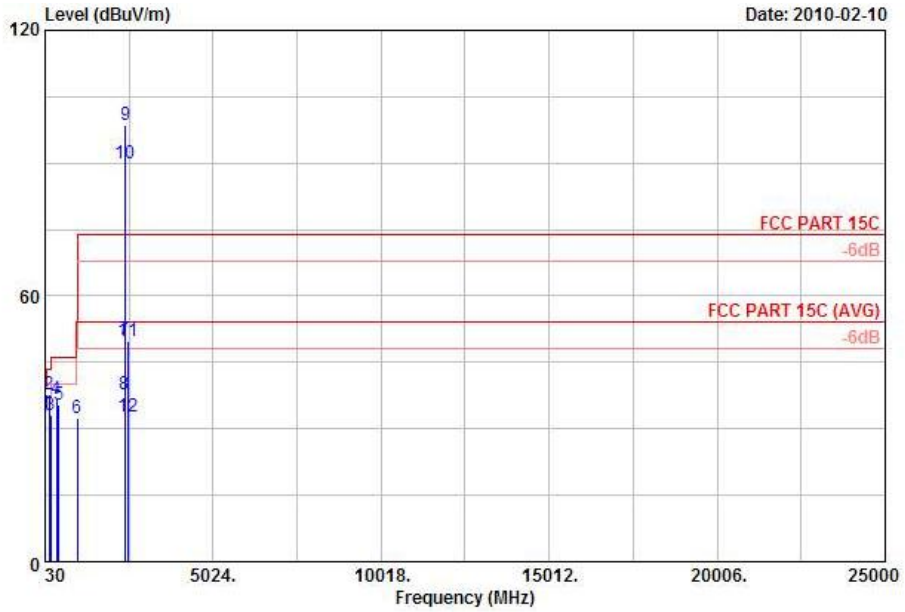


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Tablet E1 plane											
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg		
1	73.74	33.26	-6.74	40.00	55.84	5.68	0.37	28.63	---	---	Peak
2	147.45	41.15	-2.35	43.50	59.00	10.21	0.58	28.64	200	279	QP
3	192.00	34.56	-8.94	43.50	54.02	8.59	0.65	28.70	---	---	Peak
4	376.30	37.16	-8.84	46.00	49.90	15.30	0.86	28.90	---	---	Peak
5	645.80	36.01	-9.99	46.00	44.38	18.88	1.09	28.34	---	---	Peak
6	999.30	37.96	-16.04	54.00	41.93	21.10	1.35	26.42	---	---	Peak
7	2390.00	53.23	-20.77	74.00	52.06	32.86	3.15	34.84	177	265	Peak
8	2390.00	41.07	-12.93	54.00	39.90	32.86	3.15	34.84	177	265	Average
9	X 2412.00	102.96	---	---	101.76	32.89	3.15	34.84	177	265	Peak
10	X 2412.00	95.42	---	---	94.22	32.89	3.15	34.84	177	265	Average
11	2492.00	48.83	-25.17	74.00	47.42	33.05	3.21	34.85	100	14	Peak
12	2492.00	33.88	-20.12	54.00	32.47	33.05	3.21	34.85	100	14	Average



Test Mode :	Mode 8	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

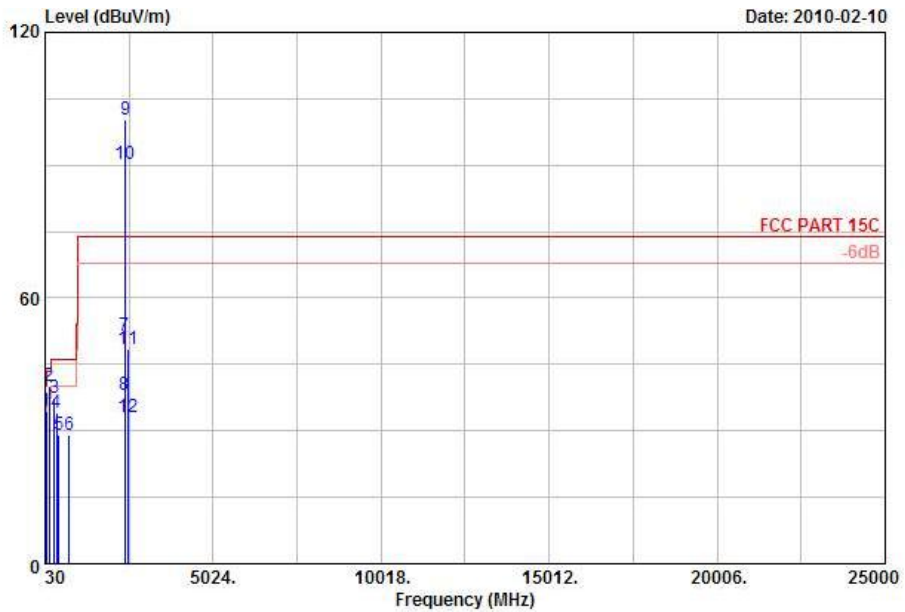


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Tablet E1 plane											
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBUV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	deg	
			dB	dBUV/m	dBuV	dB	dB	cm	deg		
1	48.09	33.39	-6.61	40.00	53.59	8.12	0.31	28.63	100	248	QP
2	147.45	37.85	-5.65	43.50	55.70	10.21	0.58	28.64	105	64	QP
3	192.00	33.08	-10.42	43.50	52.54	8.59	0.65	28.70	---	---	Peak
4	377.70	36.77	-9.23	46.00	49.47	15.34	0.86	28.90	---	---	Peak
5	431.60	35.37	-10.63	46.00	47.20	16.20	0.90	28.93	---	---	Peak
6	996.50	32.56	-21.44	54.00	36.56	21.08	1.35	26.43	---	---	Peak
7	2390.00	50.22	-23.78	74.00	49.05	32.86	3.15	34.84	100	196	Peak
8	2390.00	37.87	-16.13	54.00	36.70	32.86	3.15	34.84	100	196	Average
9 X	2412.00	98.56			97.36	32.89	3.15	34.84	100	196	Peak
10 X	2412.00	89.83			88.63	32.89	3.15	34.84	100	196	Average
11	2496.00	49.74	-24.26	74.00	48.33	33.05	3.21	34.85	100	349	Peak
12	2496.00	32.72	-21.28	54.00	31.31	33.05	3.21	34.85	100	349	Average



Test Mode :	Mode 9	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



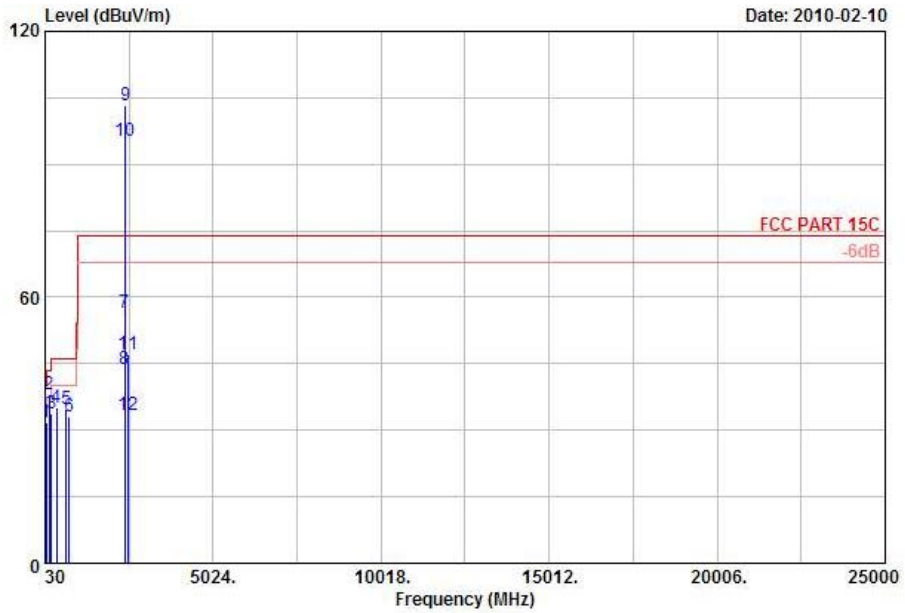
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBUV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBUV/m	dBuV	dB	dB	cm	deg	
1	72.39	34.41	-5.59	40.00	57.10	5.55	0.37	28.61	---	Peak
2	147.45	39.95	-3.55	43.50	57.80	10.21	0.58	28.64	---	Peak
3	295.14	37.49	-8.51	46.00	52.67	12.93	0.78	28.89	---	Peak
4	377.70	34.13	-11.87	46.00	46.83	15.34	0.86	28.90	---	Peak
5	430.20	29.06	-16.94	46.00	40.89	16.20	0.90	28.93	---	Peak
6	756.40	29.11	-16.89	46.00	35.83	19.90	1.20	27.82	---	Peak
7	2390.00	51.54	-22.46	74.00	50.37	32.86	3.15	34.84	100	264 Peak
8	2390.00	38.09	-15.91	54.00	36.92	32.86	3.15	34.84	100	264 Average
9	2412.00	100.32			99.12	32.89	3.15	34.84	100	264 Peak
10	2412.00	90.32			89.12	32.89	3.15	34.84	100	264 Average
11	2494.00	48.55	-25.45	74.00	47.14	33.05	3.21	34.85	100	142 Peak
12	2494.00	33.09	-20.91	54.00	31.68	33.05	3.21	34.85	100	142 Average



Test Mode :	Mode 9	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



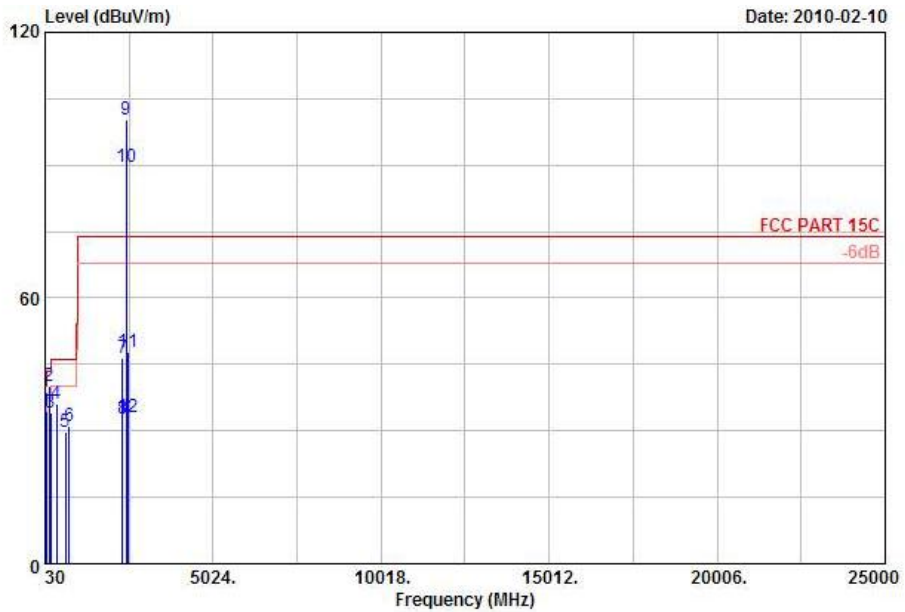
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	54.03	31.62	-8.38	40.00	53.42	6.49	0.33	28.62	---	Peak
2	147.45	38.13	-5.37	43.50	55.98	10.21	0.58	28.64	---	Peak
3	221.16	33.67	-12.33	46.00	51.54	10.17	0.69	28.73	---	Peak
4	376.30	35.25	-10.75	46.00	47.99	15.30	0.86	28.90	---	Peak
5	647.90	34.84	-11.16	46.00	43.18	18.89	1.10	28.33	---	Peak
6	752.90	33.17	-12.83	46.00	39.91	19.90	1.19	27.83	---	Peak
7	2390.00	56.37	-17.63	74.00	55.20	32.86	3.15	34.84	105	302 Peak
8	2390.00	43.69	-10.31	54.00	42.52	32.86	3.15	34.84	105	302 Average
9 X	2412.00	103.41	---	---	102.21	32.89	3.15	34.84	105	302 Peak
10 X	2412.00	95.28	---	---	94.08	32.89	3.15	34.84	105	302 Average
11	2494.00	46.97	-27.03	74.00	45.56	33.05	3.21	34.85	100	211 Peak
12	2494.00	33.38	-20.62	54.00	31.97	33.05	3.21	34.85	100	211 Average



Test Mode :	Mode 10	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



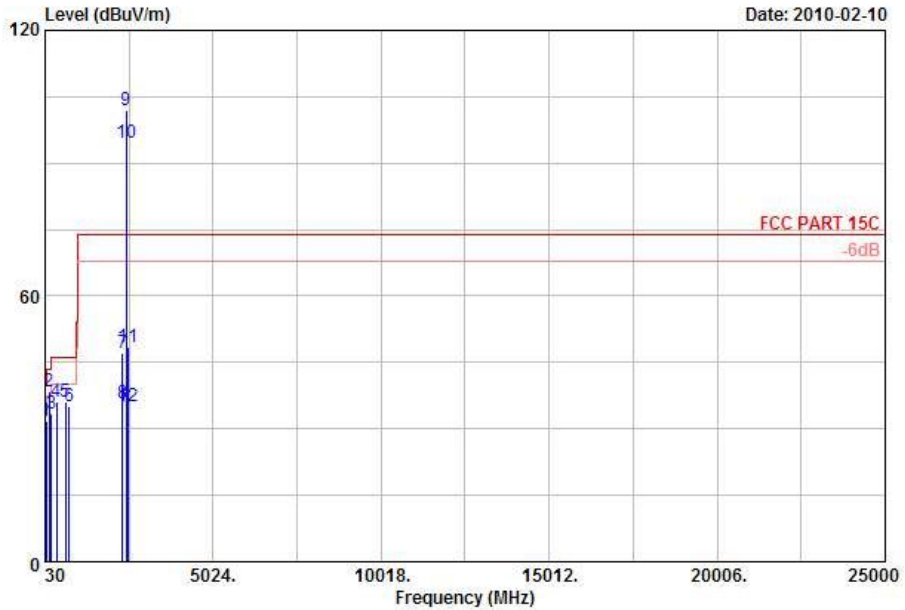
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	72.39	34.40	-5.60	40.00	57.09	5.55	0.37	28.61	---	Peak
2	147.45	40.11	-3.39	43.50	57.96	10.21	0.58	28.64	---	Peak
3	201.45	34.11	-9.39	43.50	53.08	9.08	0.66	28.71	---	Peak
4	376.30	36.05	-9.95	46.00	48.79	15.30	0.86	28.90	---	Peak
5	646.50	29.72	-16.28	46.00	38.08	18.89	1.09	28.34	---	Peak
6	756.40	31.14	-14.86	46.00	37.86	19.90	1.20	27.82	---	Peak
7	2326.00	46.57	-27.43	74.00	45.54	32.76	3.10	34.83	100	19 Peak
8	2326.00	32.81	-21.19	54.00	31.78	32.76	3.10	34.83	100	19 Average
9	2437.00	100.13			98.85	32.95	3.17	34.84	100	264 Peak
10	2437.00	89.42			88.14	32.95	3.17	34.84	100	264 Average
11	2496.00	47.77	-26.23	74.00	46.36	33.05	3.21	34.85	100	346 Peak
12	2496.00	32.97	-21.03	54.00	31.56	33.05	3.21	34.85	100	346 Average



Test Mode :	Mode 10	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



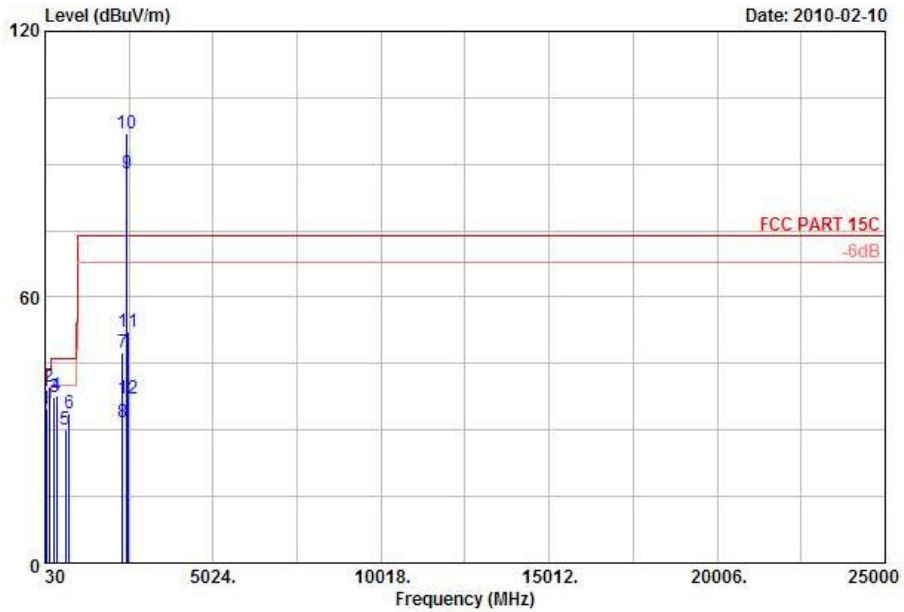
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	54.03	31.76	-8.24	40.00	53.56	6.49	0.33	28.62	---	Peak
2	147.45	38.30	-5.20	43.50	56.15	10.21	0.58	28.64	---	Peak
3	221.16	33.32	-12.68	46.00	51.19	10.17	0.69	28.73	---	Peak
4	376.30	36.20	-9.80	46.00	48.94	15.30	0.86	28.90	---	Peak
5	646.50	35.95	-10.05	46.00	44.31	18.89	1.09	28.34	---	Peak
6	755.70	34.97	-11.03	46.00	41.70	19.90	1.19	27.82	---	Peak
7	2332.00	47.27	-26.73	74.00	46.24	32.76	3.10	34.83	100	213 Peak
8	2332.00	35.89	-18.11	54.00	34.86	32.76	3.10	34.83	100	213 Average
9 X	2437.00	102.06			100.78	32.95	3.17	34.84	132	300 Peak
10 X	2437.00	94.59			93.31	32.95	3.17	34.84	132	300 Average
11	2498.00	48.45	-25.55	74.00	47.04	33.05	3.21	34.85	100	61 Peak
12	2498.00	35.01	-18.99	54.00	33.60	33.05	3.21	34.85	100	61 Average



Test Mode :	Mode 11	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



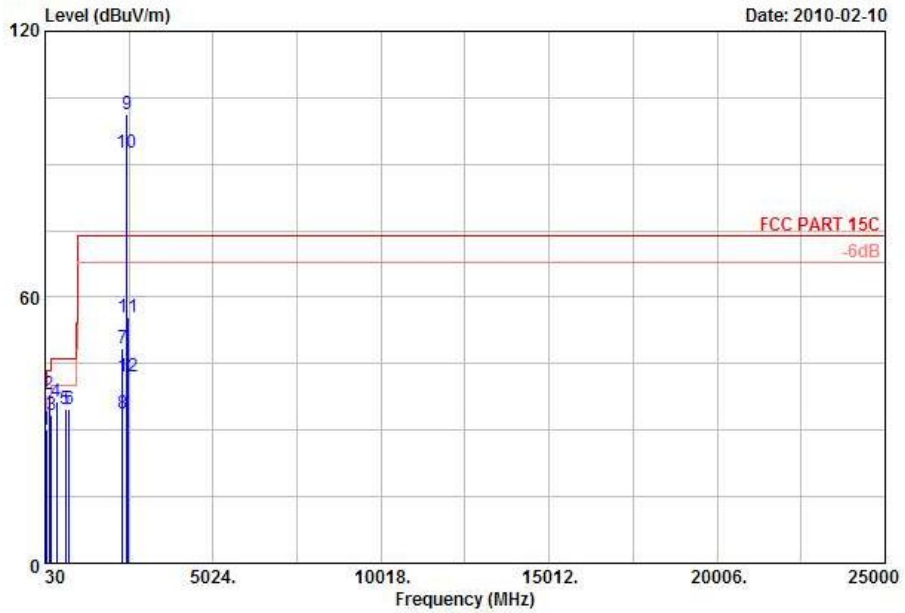
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 !	72.39	34.65	-5.35	40.00	57.34	5.55	0.37	28.61	---	Peak
2 !	147.45	39.94	-3.56	43.50	57.79	10.21	0.58	28.64	---	Peak
3	295.14	37.31	-8.69	46.00	52.49	12.93	0.78	28.89	---	Peak
4	376.30	37.69	-8.31	46.00	50.43	15.30	0.86	28.90	---	Peak
5	645.10	30.08	-15.92	46.00	38.45	18.88	1.09	28.34	---	Peak
6	756.40	33.70	-12.30	46.00	40.42	19.90	1.20	27.82	---	Peak
7	2332.00	47.59	-26.41	74.00	46.56	32.76	3.10	34.83	100	10 Peak
8	2332.00	31.68	-22.32	54.00	30.65	32.76	3.10	34.83	100	10 Average
9 X	2462.00	87.75			86.44	32.98	3.18	34.85	103	261 Average
10 X	2462.00	97.06			95.75	32.98	3.18	34.85	103	261 Peak
11	2484.00	52.27	-21.73	74.00	50.91	33.01	3.20	34.85	103	261 Peak
12	2484.00	36.98	-17.02	54.00	35.62	33.01	3.20	34.85	103	261 Average



Test Mode :	Mode 11	Temperature :	23~24°C
Test Channel :	11	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



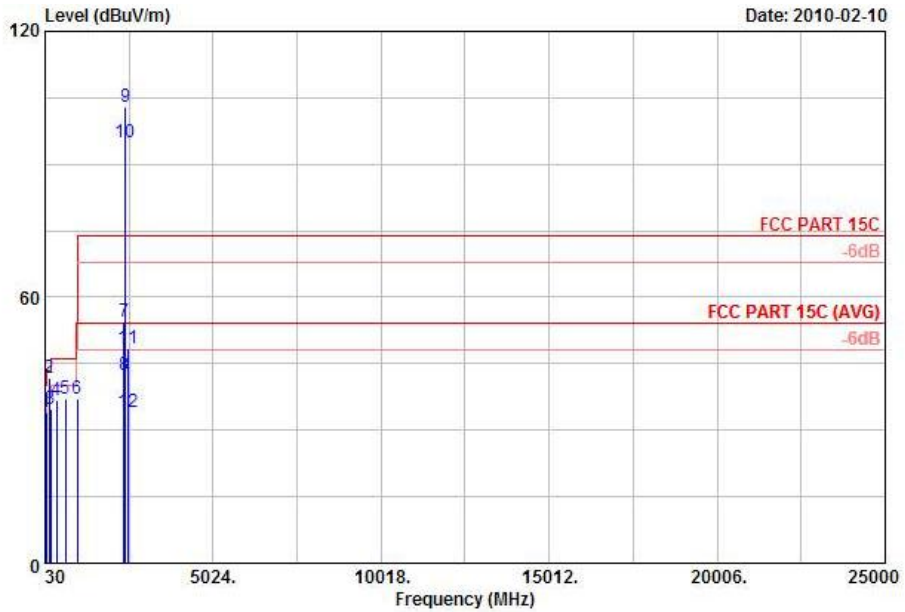
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	54.03	30.01	-9.99	40.00	51.81	6.49	0.33	28.62	---	Peak
2	147.45	37.99	-5.51	43.50	55.84	10.21	0.58	28.64	---	Peak
3	221.16	33.44	-12.56	46.00	51.31	10.17	0.69	28.73	---	Peak
4	376.30	36.30	-9.70	46.00	49.04	15.30	0.86	28.90	---	Peak
5	645.10	34.74	-11.26	46.00	43.11	18.88	1.09	28.34	---	Peak
6	752.90	34.81	-11.19	46.00	41.55	19.90	1.19	27.83	---	Peak
7	2328.00	48.55	-25.45	74.00	47.52	32.76	3.10	34.83	100	356 Peak
8	2328.00	33.80	-20.20	54.00	32.77	32.76	3.10	34.83	100	356 Average
9 X	2462.00	101.18			99.87	32.98	3.18	34.85	100	300 Peak
10 X	2462.00	92.50			91.19	32.98	3.18	34.85	100	300 Average
11	2484.00	55.38	-18.62	74.00	54.02	33.01	3.20	34.85	100	300 Peak
12	2484.00	42.12	-11.88	54.00	40.76	33.01	3.20	34.85	100	300 Average



Test Mode :	Mode 12	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



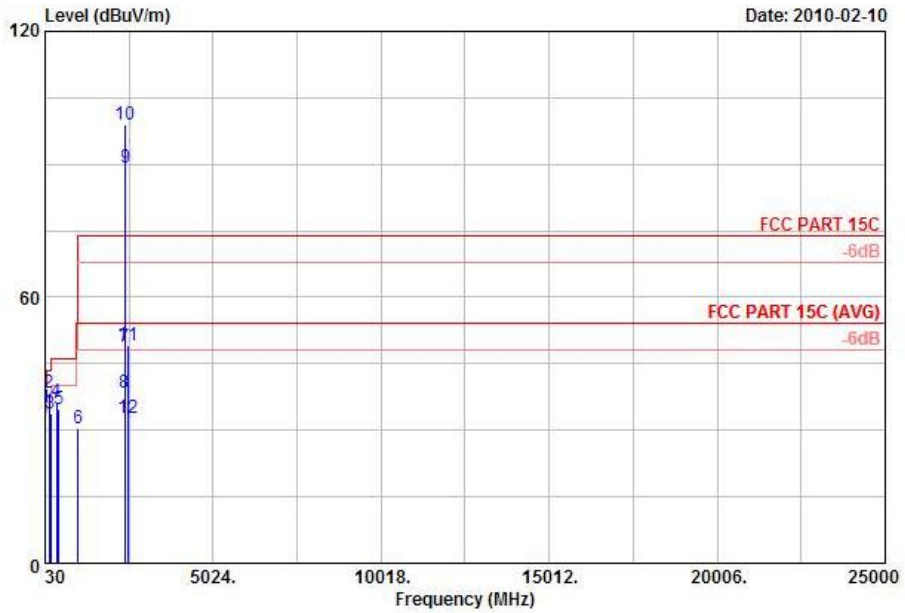
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Tablet E1 plane

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 !	73.74	34.04	-5.96	40.00	56.62	5.68	0.37	28.63	---	Peak
2 !	147.45	41.65	-1.85	43.50	59.50	10.21	0.58	28.64	200	QP
3	192.00	34.66	-8.84	43.50	54.12	8.59	0.65	28.70	---	Peak
4	377.70	36.87	-9.13	46.00	49.57	15.34	0.86	28.90	---	Peak
5	645.10	37.00	-9.00	46.00	45.37	18.88	1.09	28.34	---	Peak
6	985.30	37.15	-16.85	54.00	41.29	21.01	1.34	26.49	---	Peak
7	2384.00	54.51	-19.49	74.00	53.39	32.83	3.13	34.84	176	263 Peak
8	2384.00	42.51	-11.49	54.00	41.39	32.83	3.13	34.84	176	263 Average
9 X	2412.00	102.97			101.77	32.89	3.15	34.84	176	263 Peak
10 X	2412.00	94.77			93.57	32.89	3.15	34.84	176	263 Average
11	2492.00	48.57	-25.43	74.00	47.16	33.05	3.21	34.85	100	129 Peak
12	2492.00	34.11	-19.89	54.00	32.70	33.05	3.21	34.85	100	129 Average



Test Mode :	Mode 12	Temperature :	23~24°C
Test Channel :	01	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

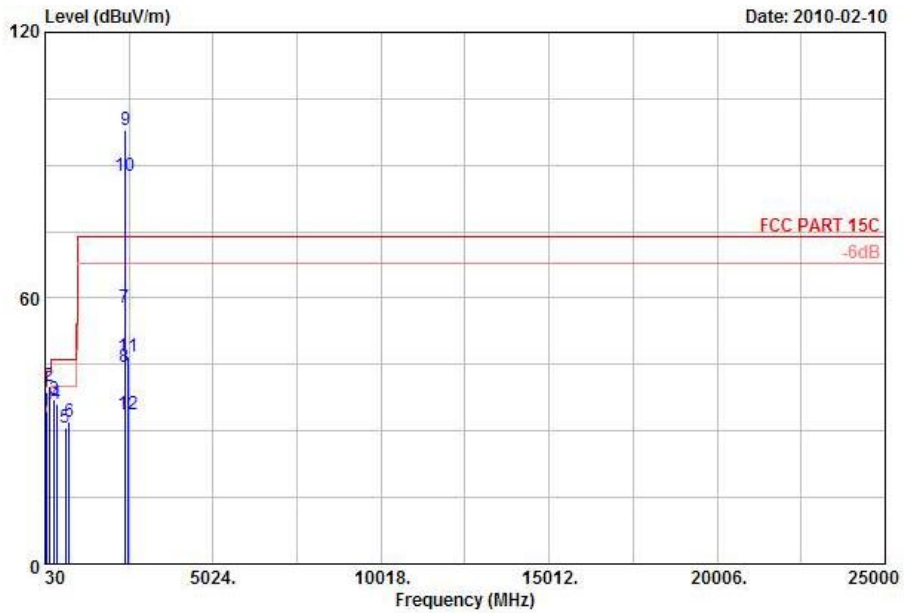


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Tablet E1 plane											
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos		
			dB	dBuV/m	dBuV	dB	dB	cm	deg		
1	48.09	35.06	-4.94	40.00	55.26	8.12	0.31	28.63	---	---	Peak
2	147.45	38.58	-4.92	43.50	56.43	10.21	0.58	28.64	---	---	Peak
3	192.00	33.78	-9.72	43.50	53.24	8.59	0.65	28.70	---	---	Peak
4	377.00	36.53	-9.47	46.00	49.23	15.34	0.86	28.90	---	---	Peak
5	430.20	34.79	-11.21	46.00	46.62	16.20	0.90	28.93	---	---	Peak
6	999.30	30.53	-23.47	54.00	34.50	21.10	1.35	26.42	---	---	Peak
7	2390.00	48.73	-25.27	74.00	47.56	32.86	3.15	34.84	100	---	196 Peak
8	2390.00	38.45	-15.55	54.00	37.28	32.86	3.15	34.84	100	---	196 Average
9 X	2412.00	89.26	---	---	88.06	32.89	3.15	34.84	100	---	196 Average
10 X	2412.00	98.95	---	---	97.75	32.89	3.15	34.84	100	---	196 Peak
11	2494.00	49.00	-25.00	74.00	47.59	33.05	3.21	34.85	100	---	23 Peak
12	2494.00	32.88	-21.12	54.00	31.47	33.05	3.21	34.85	100	---	23 Average



Test Mode :	Mode 13	Temperature :	23~24°C
Test Channel :	03	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

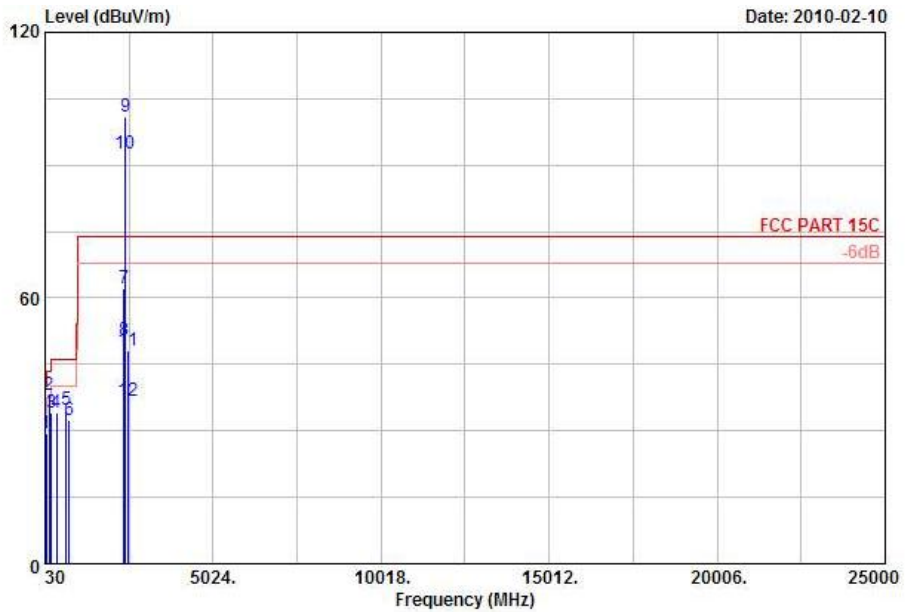


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz
 Mode : Mode 13
 : Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	72.39	34.40	-5.60	40.00	57.09	5.55	0.37	28.61	---	Peak
2	147.45	40.02	-3.48	43.50	57.87	10.21	0.58	28.64	---	Peak
3	295.14	37.01	-8.99	46.00	52.19	12.93	0.78	28.89	---	Peak
4	377.00	36.21	-9.79	46.00	48.91	15.34	0.86	28.90	---	Peak
5	645.10	30.89	-15.11	46.00	39.26	18.88	1.09	28.34	---	Peak
6	753.60	32.26	-13.74	46.00	38.99	19.90	1.19	27.82	---	Peak
7	2390.00	57.79	-16.21	74.00	56.62	32.86	3.15	34.84	100	264 Peak
8	2390.00	44.36	-9.64	54.00	43.19	32.86	3.15	34.84	100	264 Average
9 X	2422.00	97.88			96.63	32.92	3.17	34.84	100	264 Peak
10 X	2422.00	87.53			86.28	32.92	3.17	34.84	100	264 Average
11	2500.00	46.67	-27.33	74.00	45.26	33.05	3.21	34.85	100	165 Peak
12	2500.00	33.86	-20.14	54.00	32.45	33.05	3.21	34.85	100	165 Average



Test Mode :	Mode 13	Temperature :	23~24°C
Test Channel :	03	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

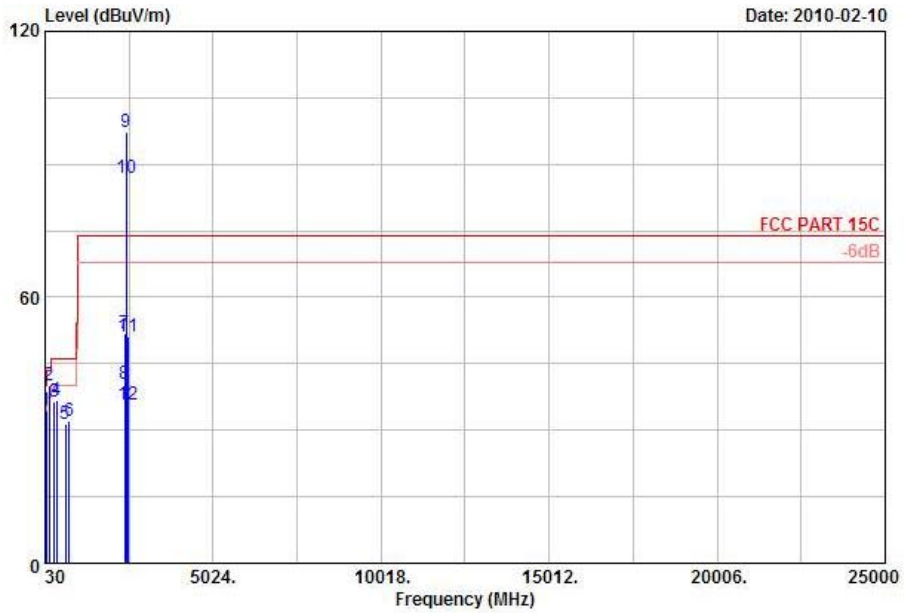


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz
 Mode : Mode 13
 : Laptop

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	54.03	29.48	-10.52	40.00	51.28	6.49	0.33	28.62	---	---	Peak
2	147.45	38.10	-5.40	43.50	55.95	10.21	0.58	28.64	---	---	Peak
3	221.16	34.09	-11.91	46.00	51.96	10.17	0.69	28.73	---	---	Peak
4	377.70	34.15	-11.85	46.00	46.85	15.34	0.86	28.90	---	---	Peak
5	647.20	34.72	-11.28	46.00	43.08	18.89	1.09	28.34	---	---	Peak
6	756.40	32.27	-13.73	46.00	38.99	19.90	1.20	27.82	---	---	Peak
7	2386.00	62.08	-11.92	74.00	60.93	32.86	3.13	34.84	103	---	301 Peak
8	2386.00	50.35	-3.65	54.00	49.20	32.86	3.13	34.84	103	---	301 Average
9	2422.00	101.03			99.78	32.92	3.17	34.84	103	---	301 Peak
10	2422.00	92.72			91.47	32.92	3.17	34.84	103	---	301 Average
11	2500.00	48.10	-25.90	74.00	46.69	33.05	3.21	34.85	100	---	31 Peak
12	2500.00	36.87	-17.13	54.00	35.46	33.05	3.21	34.85	100	---	31 Average



Test Mode :	Mode 14	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

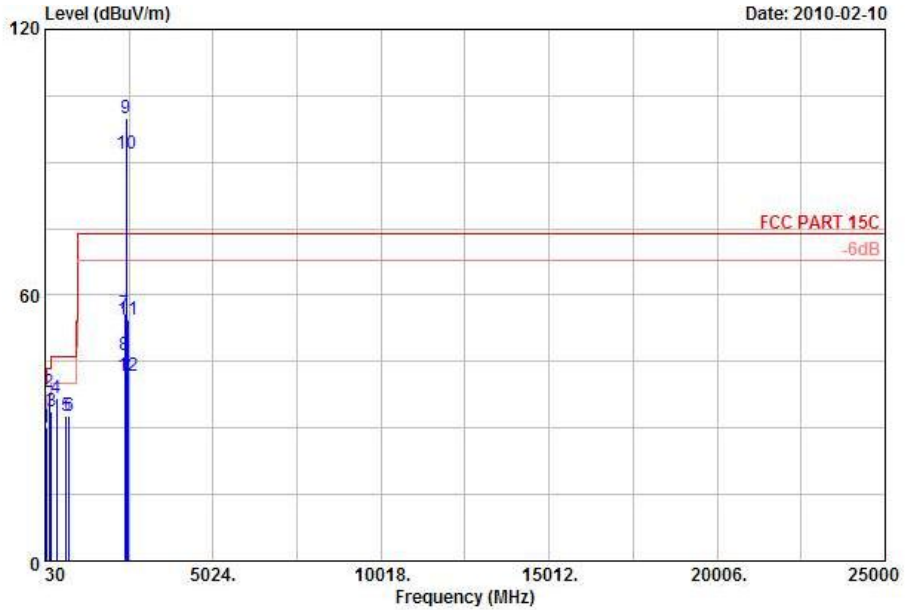


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz
 Mode : Mode 14
 : Laptop

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	72.39	34.49	-5.51	40.00	57.18	5.55	0.37	28.61	---	---	Peak
2	147.45	40.03	-3.47	43.50	57.88	10.21	0.58	28.64	---	---	Peak
3	295.14	36.59	-9.41	46.00	51.77	12.93	0.78	28.89	---	---	Peak
4	377.70	36.82	-9.18	46.00	49.52	15.34	0.86	28.90	---	---	Peak
5	645.10	31.26	-14.74	46.00	39.63	18.88	1.09	28.34	---	---	Peak
6	752.90	32.23	-13.77	46.00	38.97	19.90	1.19	27.83	---	---	Peak
7	2390.00	51.69	-22.31	74.00	50.52	32.86	3.15	34.84	100	---	124 Peak
8	2390.00	40.52	-13.48	54.00	39.35	32.86	3.15	34.84	100	---	124 Average
9 X	2437.00	97.18	---	---	95.90	32.95	3.17	34.84	100	---	268 Peak
10 X	2437.00	86.86	---	---	85.58	32.95	3.17	34.84	100	---	268 Average
11	2488.00	51.29	-22.71	74.00	49.89	33.05	3.20	34.85	100	---	22 Peak
12	2488.00	35.80	-18.20	54.00	34.40	33.05	3.20	34.85	100	---	22 Average



Test Mode :	Mode 14	Temperature :	23~24°C
Test Channel :	06	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

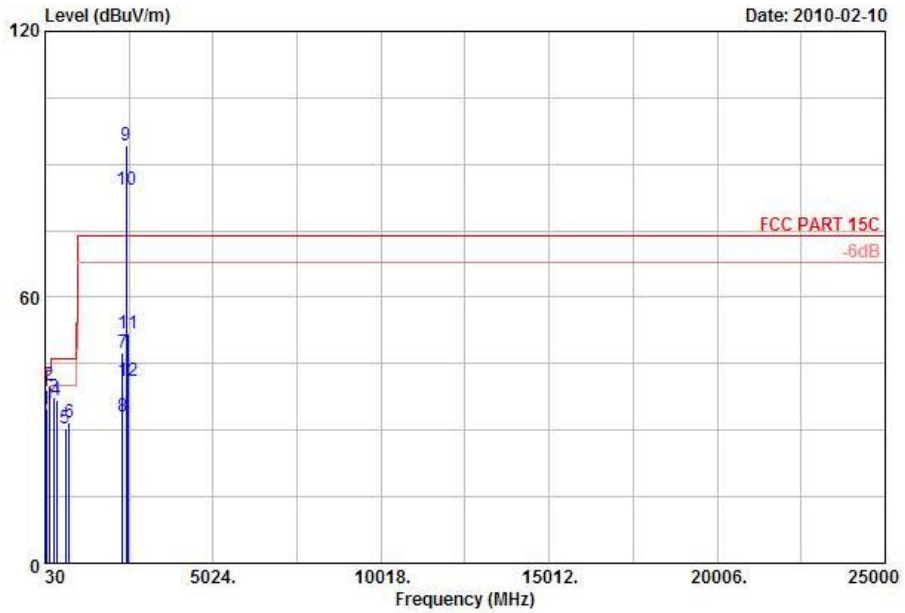


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz
 Mode : Mode 14
 : Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	54.03	30.01	-9.99	40.00	51.81	6.49	0.33	28.62	---	Peak
2	147.45	38.21	-5.29	43.50	56.06	10.21	0.58	28.64	---	Peak
3	221.16	33.72	-12.28	46.00	51.59	10.17	0.69	28.73	---	Peak
4	377.00	36.72	-9.28	46.00	49.42	15.34	0.86	28.90	---	Peak
5	647.20	32.72	-13.28	46.00	41.08	18.89	1.09	28.34	---	Peak
6	752.90	32.89	-13.11	46.00	39.63	19.90	1.19	27.83	---	Peak
7	2390.00	55.90	-18.10	74.00	54.73	32.86	3.15	34.84	100	59 Peak
8	2390.00	46.43	-7.57	54.00	45.26	32.86	3.15	34.84	100	59 Average
9 X	2437.00	100.02			98.74	32.95	3.17	34.84	103	301 Peak
10 X	2437.00	91.77			90.49	32.95	3.17	34.84	103	301 Average
11	2484.00	54.59	-19.41	74.00	53.23	33.01	3.20	34.85	100	319 Peak
12	2484.00	41.64	-12.36	54.00	40.28	33.01	3.20	34.85	100	319 Average



Test Mode :	Mode 15	Temperature :	23~24°C
Test Channel :	09	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

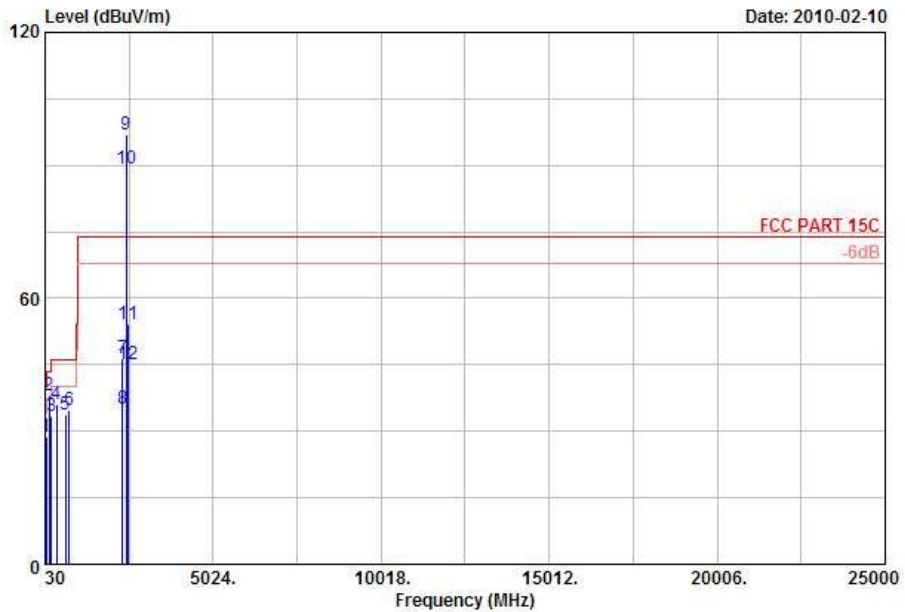


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz
 Mode : Mode 15
 : Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	72.39	34.83	-5.17	40.00	57.52	5.55	0.37	28.61	---	Peak
2	147.45	40.26	-3.24	43.50	58.11	10.21	0.58	28.64	---	Peak
3	295.14	37.31	-8.69	46.00	52.49	12.93	0.78	28.89	---	Peak
4	377.00	36.74	-9.26	46.00	49.44	15.34	0.86	28.90	---	Peak
5	646.50	30.51	-15.49	46.00	38.87	18.89	1.09	28.34	---	Peak
6	752.90	31.84	-14.16	46.00	38.58	19.90	1.19	27.83	---	Peak
7	2328.00	47.49	-26.51	74.00	46.46	32.76	3.10	34.83	100	63 Peak
8	2328.00	33.18	-20.82	54.00	32.15	32.76	3.10	34.83	100	63 Average
9 X	2452.00	94.24	---	---	92.96	32.95	3.18	34.85	100	263 Peak
10 X	2452.00	84.28	---	---	83.00	32.95	3.18	34.85	100	263 Average
11	2486.00	51.85	-22.15	74.00	50.49	33.01	3.20	34.85	100	263 Peak
12	2486.00	41.26	-12.74	54.00	39.90	33.01	3.20	34.85	100	263 Average



Test Mode :	Mode 15	Temperature :	23~24°C
Test Channel :	09	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

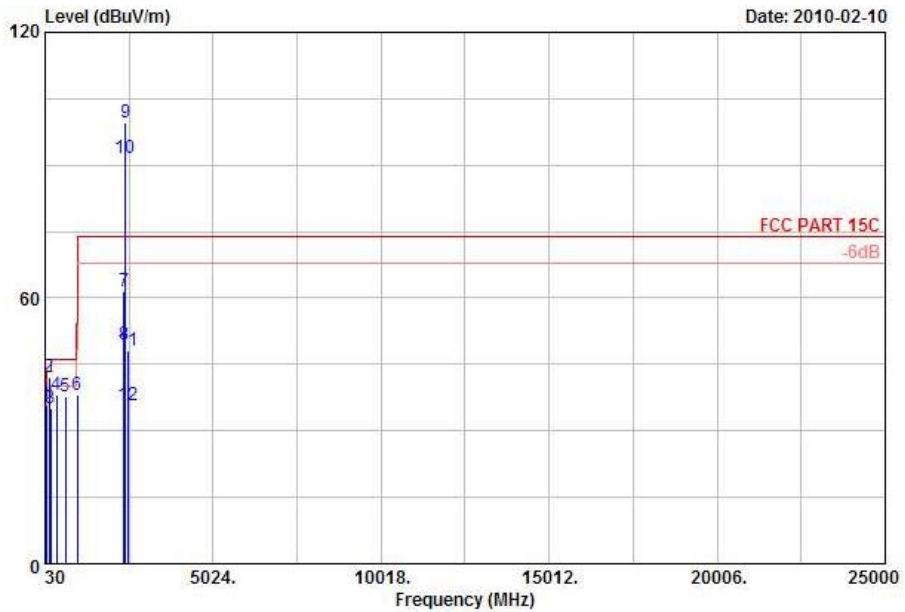


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz
 Mode : Mode 15
 : Laptop

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	72.39	28.89	-11.11	40.00	51.58	5.55	0.37	28.61	---	Peak
2	147.45	37.99	-5.51	43.50	55.84	10.21	0.58	28.64	---	Peak
3	221.16	33.38	-12.62	46.00	51.25	10.17	0.69	28.73	---	Peak
4	376.30	36.03	-9.97	46.00	48.77	15.30	0.86	28.90	---	Peak
5	646.50	33.80	-12.20	46.00	42.16	18.89	1.09	28.34	---	Peak
6	753.60	34.86	-11.14	46.00	41.59	19.90	1.19	27.82	---	Peak
7	2328.00	46.54	-27.46	74.00	45.51	32.76	3.10	34.83	100	0 Peak
8	2328.00	35.21	-18.79	54.00	34.18	32.76	3.10	34.83	100	0 Average
9 X	2452.00	96.95			95.67	32.95	3.18	34.85	100	301 Peak
10 X	2452.00	89.30			88.02	32.95	3.18	34.85	100	301 Average
11	2486.00	54.31	-19.69	74.00	52.95	33.01	3.20	34.85	100	301 Peak
12	2486.00	45.02	-8.98	54.00	43.66	33.01	3.20	34.85	100	301 Average



Test Mode :	Mode 16	Temperature :	23~24°C
Test Channel :	03	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

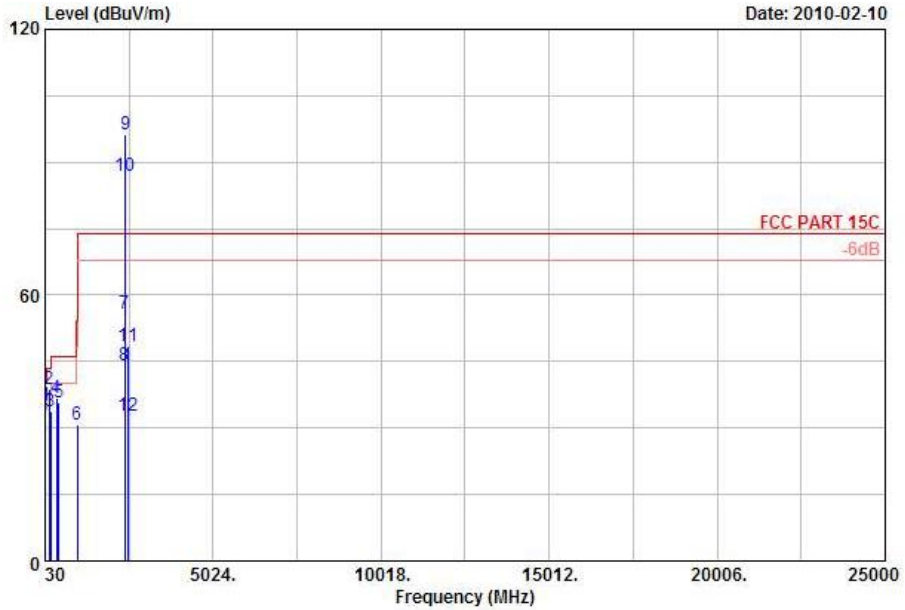


Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 HORIZONTAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Tablet E1 plane											
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos		
					dBuV	dB	dB	cm	deg		
1	!	73.74	35.83	-4.17	40.00	58.41	5.68	0.37	28.63	---	Peak
2	!	147.45	42.05	-1.45	43.50	59.90	10.21	0.58	28.64	200	QP
3		192.00	35.12	-8.38	43.50	54.58	8.59	0.65	28.70	---	Peak
4		376.30	38.14	-7.86	46.00	50.88	15.30	0.86	28.90	---	Peak
5		645.10	37.75	-8.25	46.00	46.12	18.88	1.09	28.34	---	Peak
6		997.90	38.00	-16.00	54.00	41.99	21.09	1.35	26.43	---	Peak
7		2386.00	61.61	-12.39	74.00	60.46	32.86	3.13	34.84	176	263 Peak
8	!	2386.00	49.34	-4.66	54.00	48.19	32.86	3.13	34.84	176	263 Average
9	X	2422.00	99.74			98.49	32.92	3.17	34.84	176	263 Peak
10	X	2422.00	91.43			90.18	32.92	3.17	34.84	176	263 Average
11		2486.00	48.08	-25.92	74.00	46.72	33.01	3.20	34.85	100	355 Peak
12		2486.00	35.87	-18.13	54.00	34.51	33.01	3.20	34.85	100	355 Average



Test Mode :	Mode 16	Temperature :	23~24°C
Test Channel :	03	Relative Humidity :	45~46%
Test Engineer :	Harvey Tang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF_ANT_090807 VERTICAL
 Project : FR 012903-01
 Power : 120Vac/60Hz

: Tablet E1 plane											
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB	dB	cm	deg		
1	48.09	35.16	-4.84	40.00	55.36	8.12	0.31	28.63	---	---	Peak
2	147.45	38.76	-4.74	43.50	56.61	10.21	0.58	28.64	---	---	Peak
3	192.00	33.70	-9.80	43.50	53.16	8.59	0.65	28.70	---	---	Peak
4	376.30	36.75	-9.25	46.00	49.49	15.30	0.86	28.90	---	---	Peak
5	430.20	35.67	-10.33	46.00	47.50	16.20	0.90	28.93	---	---	Peak
6	996.50	30.90	-23.10	54.00	34.90	21.08	1.35	26.43	---	---	Peak
7	2390.00	55.85	-18.15	74.00	54.68	32.86	3.15	34.84	100	---	195 Peak
8	2390.00	43.99	-10.01	54.00	42.82	32.86	3.15	34.84	100	---	195 Average
9 X	2422.00	96.14	---	---	94.89	32.92	3.17	34.84	100	---	195 Peak
10 X	2422.00	86.84	---	---	85.59	32.92	3.17	34.84	100	---	195 Average
11	2498.00	48.42	-25.58	74.00	47.01	33.05	3.21	34.85	100	---	0 Peak
12	2498.00	32.70	-21.30	54.00	31.29	33.05	3.21	34.85	100	---	0 Average



3.3 Antenna Requirements

3.3.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

3.3.2 Antenna Connected Construction

The antennas type used in this product is PIFA Antenna without connector and it is considered to meet antenna requirement.

3.3.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Receiver	R&S	ESCI	100534	9kHz~2.75GHz	Nov. 17, 2009	Nov. 16, 2010	Conduction (CO01-KS)
LISN	MessTec	AN3016	60103	9kHz~30MHz	Jan. 18, 2010	Jan. 17, 2011	Conduction (CO01-KS)
LISN	MessTec	AN3016	60105	9kHz~30MHz	Jan. 18, 2010	Jan. 17, 2011	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	N/A	Nov. 26, 2009	Nov. 25, 2010	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESCI	100724	9kHz – 2.75GHz	Mar. 04, 2009	Mar. 03, 2010	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	75959	1GHz~18GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Amplifier	Wireless	FPA6592G	60004	30MHz~2GHz	Feb. 02, 2010	Feb. 01, 2011	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
actice hore antenna	com-power	AHA-118	701023	1G-18GHz	Nov. 18, 2009	Nov. 17, 2010	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz~40GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15-40GHz	Oct. 22, 2009	Oct. 21, 2010	Radiation (03CH01-KS)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.10	Normal (k=2)	0.05
Cable Loss	0.10	Normal (k=2)	0.05
AMN Insertion Loss	2.50	Rectangular	0.63
Receiver Specification	1.50	Rectangular	0.43
Site Imperfection	1.39	Rectangular	0.80
Mismatch	+0.34 / -0.35	U-Shape	0.24
Combined Standard Uncertainty $U_c(y)$	1.13		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.26		

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.41	Normal (k=2)	0.21
Antenna Factor Calibration	0.83	Normal (k=2)	0.42
Cable Loss Calibration	0.25	Normal (k=2)	0.13
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14
RCV/SPA Specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site Imperfection	1.43	Rectangular	0.83
Mismatch	+0.39 / -0.41	U-Shape	0.28
Combined Standard Uncertainty $U_c(y)$	1.27		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.54		

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Contribution	Uncertainty of X_i		$u(X_i)$	C_i	$C_i * u(X_i)$
	dB	Probability Distribution			
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site Imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\text{Log}(1-\Gamma_1*\Gamma_2)$	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty $U_c(y)$	2.36				
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.72				



Appendix A. Photographs of EUT

Please refer to Sporton report number EP021101 as below.