




BUREAU
VERITAS

TEST REPORT N°: ECL-08OCH1793ETHFB

TEST REPORT

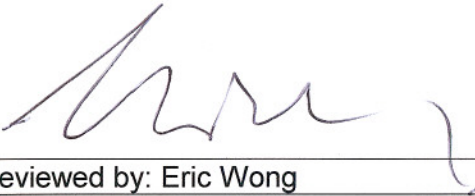
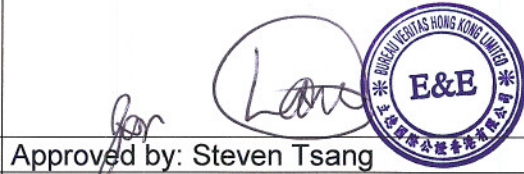
To:	SUMMER INFANT, INC	To:	-
Attn:	Anthony Paolo	Attn:	-
Address:	582 Great Road, North Smithfield, Rhode Island, United States	Address:	-
Fax:	--	Fax:	-
E-mail:	--	E-mail:	-

Factory name:	--	Offer:	ECL-08OC08-01ETHHFP
Location:	--	Sample No:	81008022
	Start date:	October 11, 2008	
	Finish date:	October 13, 2008	
	Test Requested:	FCC Part 15 Certification Procedure	
	Test Method:	ANSI C63.4 – 2003	
	Re-testing:	NONE	
CLOSE TO YOU CRIB MONITOR MODEL: 02700		FCC ID: PZK-02700T	

The results given in this report are related to the tested specimen of the described electrical apparatus.

CONCLUSION: The submitted sample was found to COMPLY with requirement of FCC Part 15 Subpart C.

Authorized Signature:

	
Reviewed by: Eric Wong	Approved by: Steven Tsang
Date: October 28, 2008	Date: October 28, 2008

BUREAU VERITAS HONG KONG LIMITED –
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Location of the test site

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at :

BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE

No. 2106-2107, 21/F., Westin Centre,
26 Hung To Road,
Kwun Tong, Kowloon,
Hong Kong

List of measuring equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
A801 0002	EMI TEST TRANSMITTER	R&S	ESCI	100379	13-APR-2009
A803 0003	HF LOOP ANTENNA	SCHAFFNER	HLA 6120	21728	28-AUG-2009
A803 0002	BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	31-JAN-2009
A813 0001	OPEN AREA TEST SITE	BVCPS	N/A	N/A	05-JULY-2009
A814 0001	ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	09-JULY-2009

Conducted Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
A801 0001	EMI TEST RECEIVER	R&S	ESCS30	830986/030	17-SEP-2009
A808 0001	LISN	R&S	ESH3-Z5	100116	15-FEB-2009
A816 0001	PULSE LIMITER	R&S	ESH3 Z2	100088	17-APR-2009

Remarks:-

N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result

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Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.235
Test Method: ANSI C63.4

Test Date(s): 2008-10-11

Mode of Operation: Transmitter mode (channel 1 & 2, Power by AC-DC adaptor)

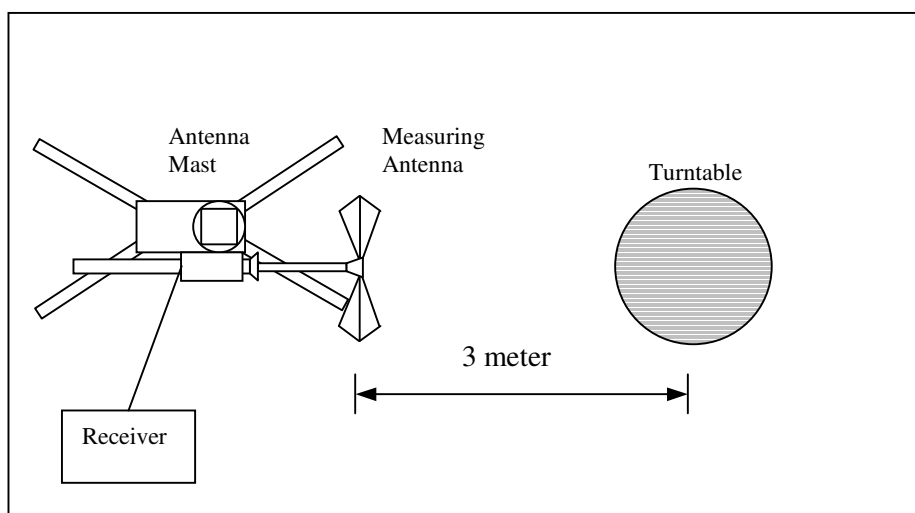
Test Procedure:

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Test Setup: Open Area Test Site





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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.235]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Peak] [$\mu\text{V}/\text{m}$]	Field Strength of Fundamental Emission [Average] [$\mu\text{V}/\text{m}$]
49.82 – 49.90	100,000 (100 dB $\mu\text{V}/\text{m}$)	10,000 (80 dB $\mu\text{V}/\text{m}$)

Measurement Data

Test Result of (Transmitter mode, channel 1): PASS

Detection mode: Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu\text{V}/\text{m}$)	Limit at 3m (dB $\mu\text{V}/\text{m}$)	Margin (dB)
49.83	V	10.38	65.1	100	-34.9

Detection mode: Average

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu\text{V}/\text{m}$)	Limit at 3m (dB $\mu\text{V}/\text{m}$)	Margin (dB)
49.83	V	10.38	64.8	80	-15.2

Note: Field Strength includes Antenna Factor and Cable Loss.

Detection mode: Peak

Receiver setting: RBW = 100KHz
VBW = 300KHz

Detection mode: Average

Receiver setting: RBW = 100KHz
VBW = 10Hz



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Test Result of (Transmitter mode, channel 2): PASS

Detection mode: Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
49.87	V	10.38	65.3	100	-34.7

Detection mode: Average

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
49.87	V	10.38	65.0	80	-15.0

Note: Field Strength includes Antenna Factor and Cable Loss.

Detection mode: Peak

Receiver setting: RBW = 100KHz
VBW = 300KHz

Detection mode: Average

Receiver setting: RBW = 100KHz
VBW = 10Hz



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Radiated Emissions (9kHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.209
Test Method: ANSI C63.4

Test Date(s): 2008-10-11

Mode of Operation: Transmitter mode (channel 1 & 2, Power by AC-DC adaptor)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μ V/m]
1.705-30	300
30-88	100
88-216	150
216-960	200
Above960	500

Measurement Data

Test Result of (Transmitter mode, channel 1, AC adapter): **PASS**

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
298.98	V	21.07	22.4	46.0	-23.6
348.81	V	21.97	22.8	46.0	-23.2
398.64	V	25.18	25.1	46.0	-20.9
448.48	V	25.48	32.1	46.0	-13.9
498.30	H	27.51	26.9	46.0	-19.1
548.12	H	28.81	37.2	46.0	-8.8

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz



TEST REPORT N°: ECL-08OCH1793ETHFB

Measurement Data

Test Result of (Transmitter mode, channel 2, AC adapter): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
299.25	V	21.07	24.6	46.0	-21.4
349.12	H	21.97	25.0	46.0	-21.0
399.00	H	25.18	29.3	46.0	-16.7
448.88	V	25.48	35.1	46.0	-13.9
498.76	V	27.51	34.3	46.0	-11.7
548.60	H	28.81	36.6	46.0	-9.4

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
 VBW = 120KHz



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26dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.235
Test Method: ANSI C63.4:2003 (Section 13.1.7)
Test Date: 2008-10-11
Mode of Operation: Transmitter mode (channel 1, 2, Power by AC-DC adaptor)

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

For the voice transmission, It would try different type and very loud music in order to get worst result.

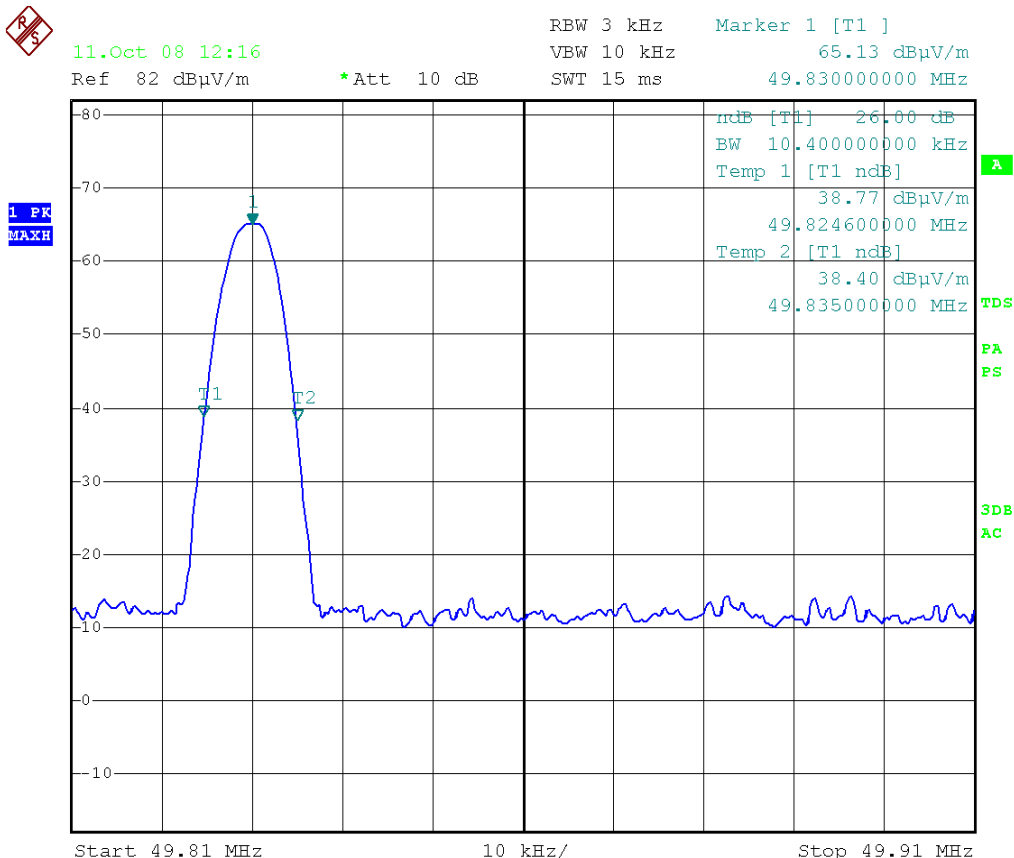
Limits for 26dB Bandwidth of Fundamental Emission: Channel 1, 2

Frequency [MHz]	26dB Bandwidth [KHz]	FCC Limits [MHz]
CH 1: 49.83	10.4	within 49.82-49.90
CH 2: 49.88	10.4	within 49.82-49.90

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Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission (Channel 1, AC adapter): PASS

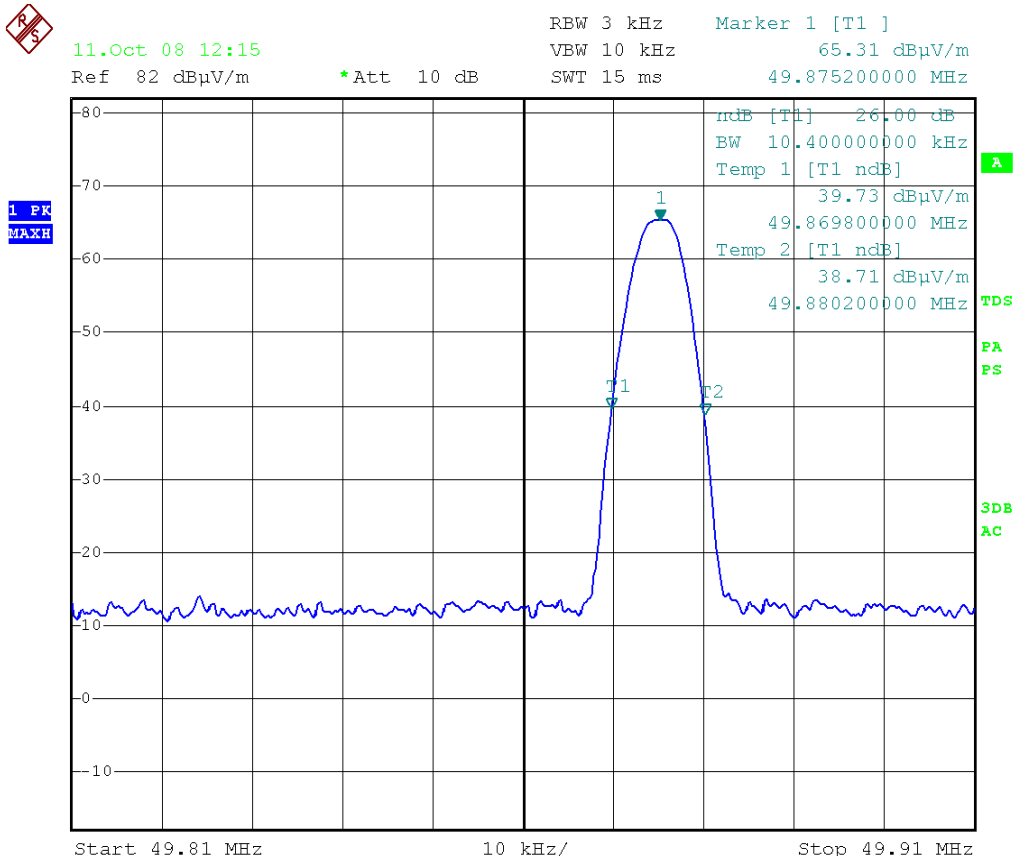


Date: 11.OCT.2008 12:16:41

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Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission (Channel 2, AC adapter): PASS



Date: 11.OCT.2008 12:15:42

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Conducted Emissions (150kHz to 30MHz)

Test Requirement: FCC Part 15 Section 15.107
 Test Method: ANSI C63.4
 Level: Class B

Test Date(s): 2008-10-13

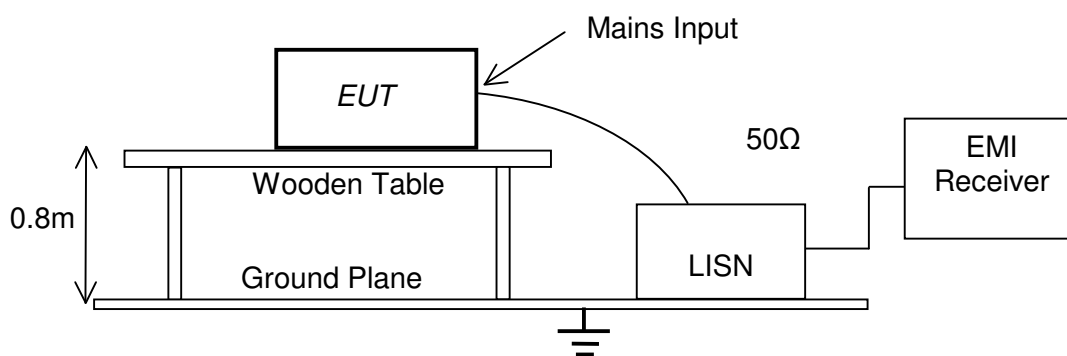
Mode of Operation: Transmitter mode (channel 1 & 2)

Test Procedure:

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. The EUT was setup as described in the procedures, and both lines were measured.

Initial measurements were performed in peak and average detection modes on the live line, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



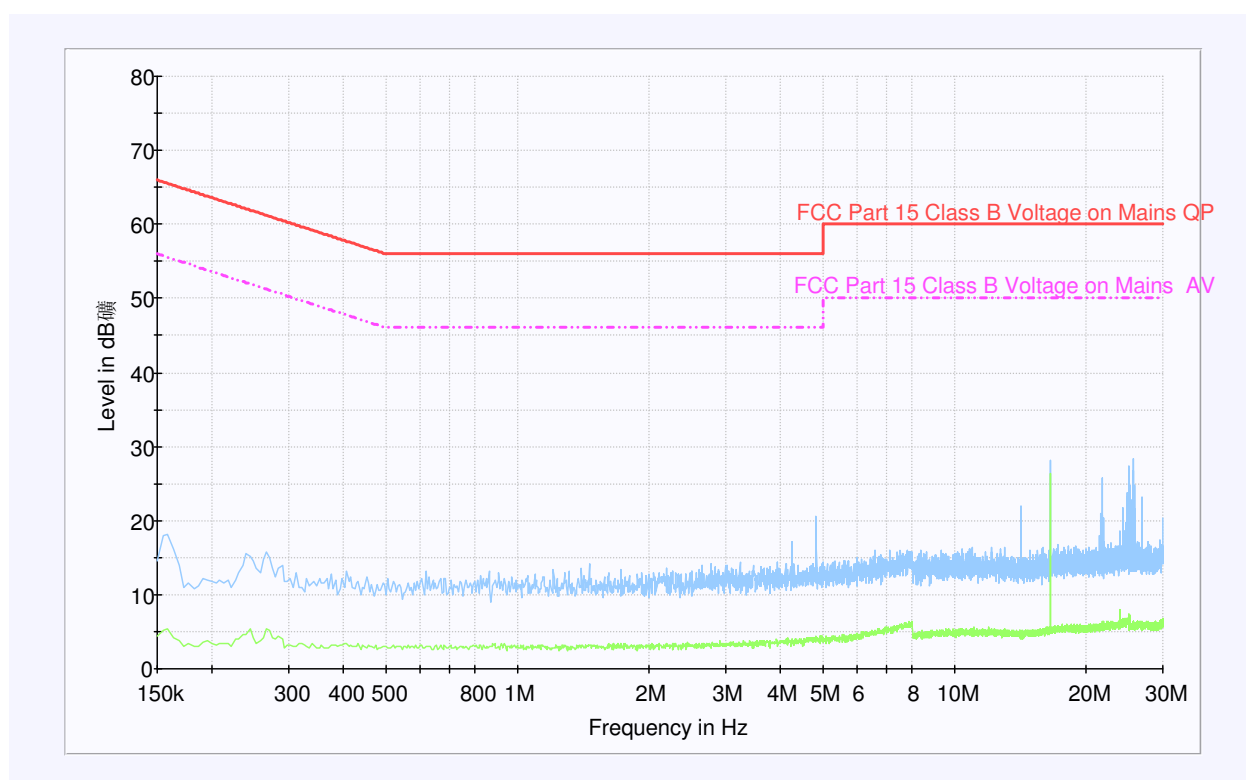
TEST REPORT N^o: ECL-08OCH1793ETHFB

Measurement Data

Test Result of (Transmitter mode, channel 1): PASS

Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.



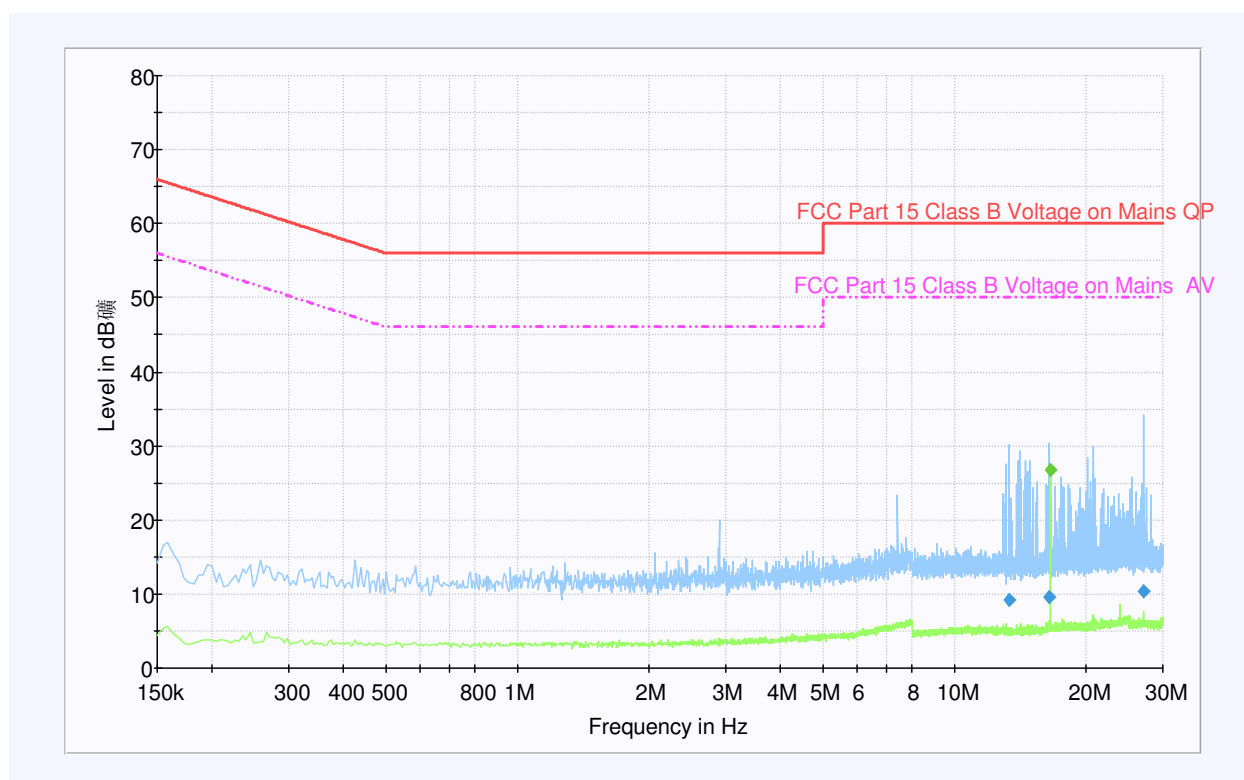
TEST REPORT N^o: ECL-080CH1793ETHFB

Measurement Data

Test Result of (Transmitter mode, channel 2): PASS

Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.



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Photographs of EUT

Transmitter

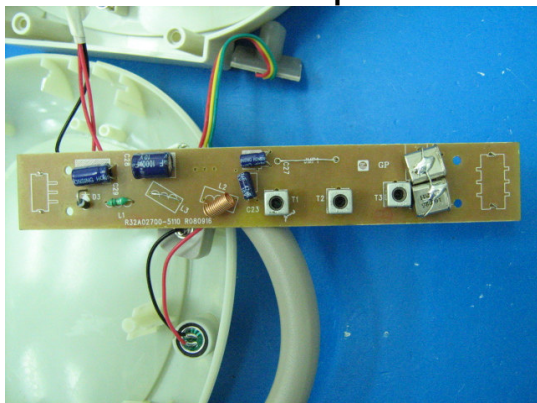
Front View of the product



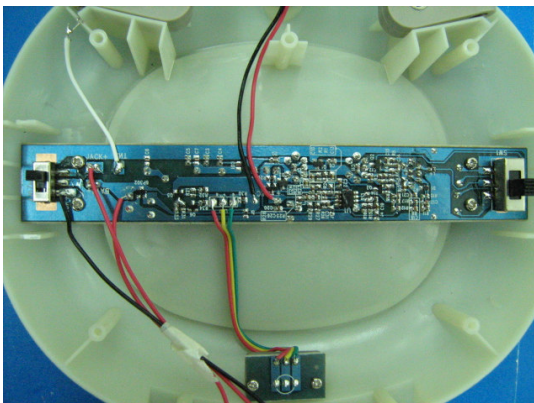
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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Measurement of Radiated Emission Test Set Up



******* End of Report *******