

ICES-003

Measurement and Test Report

For

GlobTek, Inc.

186 Veterans Dr. Northvale, NJ 07647 USA

Test Standards: ICES-003 Issue 6 (2016-06)

Product Description: ITE/Medical Power Supply

Tested Model: GT*96180-*****

Report No.: STR16108064C

Tested Date: 2016-10-17 to 2016-10-22

Issued Date: 2016-10-22

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: GlobTek, Inc.
Address of applicant: 186 Veterans Dr. Northvale, NJ 07647 USA

Manufacturer: 1. GlobTek, Inc.
2. GlobTek (Suzhou) Co., Ltd
Address of manufacturer: 1.186 Veterans Dr. Northvale, NJ 07647 USA
2. Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou, JiangSu 215021, China

General Description of EUT	
Product Name:	ITE/Medical Power Supply
Trade Name:	
Model No.:	GT*96180-*****
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i> <i>GT*96180-*****</i> <i>The 1st "*" part can be 'M' or '-' or 'H' for market identification and not related to safety.</i> <i>The 2nd "*" denotes the rated output wattage designation, which can be "01" to "18", with interval of 1.</i> <i>The 3rd "*" denotes the standard rated output voltage designation, which can be "07", "11", "17.9", "30", "38", "48"</i> <i>The 4th "*" is optional deviation, subtracted from standard output voltage, which can be "-0.01" to "-12.0" with interval of 0.01, or blank to indicate no voltage different.</i> <i>The 3th "*" and 4th "*" together denote the output voltage, with a range of 5 - 48 volts.</i> <i>The 5th "*" = blank, it means wall plug in with interchangeable blade</i> <i>=-T2 means desktop class II with C8 AC inlet</i> <i>=-T2A means desktop class II with C18 AC inlet</i> <i>=-T3 means desktop class I with C14 AC inlet</i> <i>=-T3A means desktop class I with C6 AC inlet</i> <i>The last * denote any six character = 0-9 or A-Z or ()[] or - or blank for marketing purposes.</i>	

Technical Characteristics of EUT	
Rated Voltage:	AC 100-240V
Rated Current:	/
Rated Power:	18W MAX
Highest Internal Frequency:	Below 108MHz
Classification of ITE:	Class B

1.2 Test Standards

The following report is prepared on behalf of the GlobTek, Inc. in accordance with ICES-003 Issue 6 June 2016, Information Technology Equipment (ITE) – Limits and methods of measurement.

The objective is to determine compliance with ICES-003 Issue 6 June 2016.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission/immunity, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

FCC – Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. 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 and the Registration is 934118.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

CNAS Registration No.: L4062

Shenzhen SEM.Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).

1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List:

Test Mode	Description	Remark
TM1	Working	Model: GTM96180-1507-2.0
TM2	Working	Model: GTM96180-1848
TM3	Working	Model: GTM96180-1811-2.0-T2
TM4	Working	Model: GTM96180-1811-2.0-T3

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
DC Line	1.0	Unshielded	Without Core

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
/	/	/	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

1.6 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2016-06-04	2017-06-03
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2016-06-04	2017-06-03
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2016-06-04	2017-06-03
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2016-06-04	2017-06-03
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2016-06-04	2017-06-03
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2016-06-04	2017-06-03
SEMT-1042	Horn Antenna	ETS	3117	00086197	2016-06-04	2017-06-03
SEMT-1121	Horn Antenna	ETS	3116B	00088203	2016-06-04	2017-06-03
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2016-06-04	2017-06-03
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2016-06-04	2017-06-03
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2016-06-04	2017-06-03
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2016-06-04	2017-06-03

2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
ICES-003	Conducted Disturbance	Compliant
	Radiated Disturbance	Compliant

N/A: not applicable

3. Conducted Disturbance

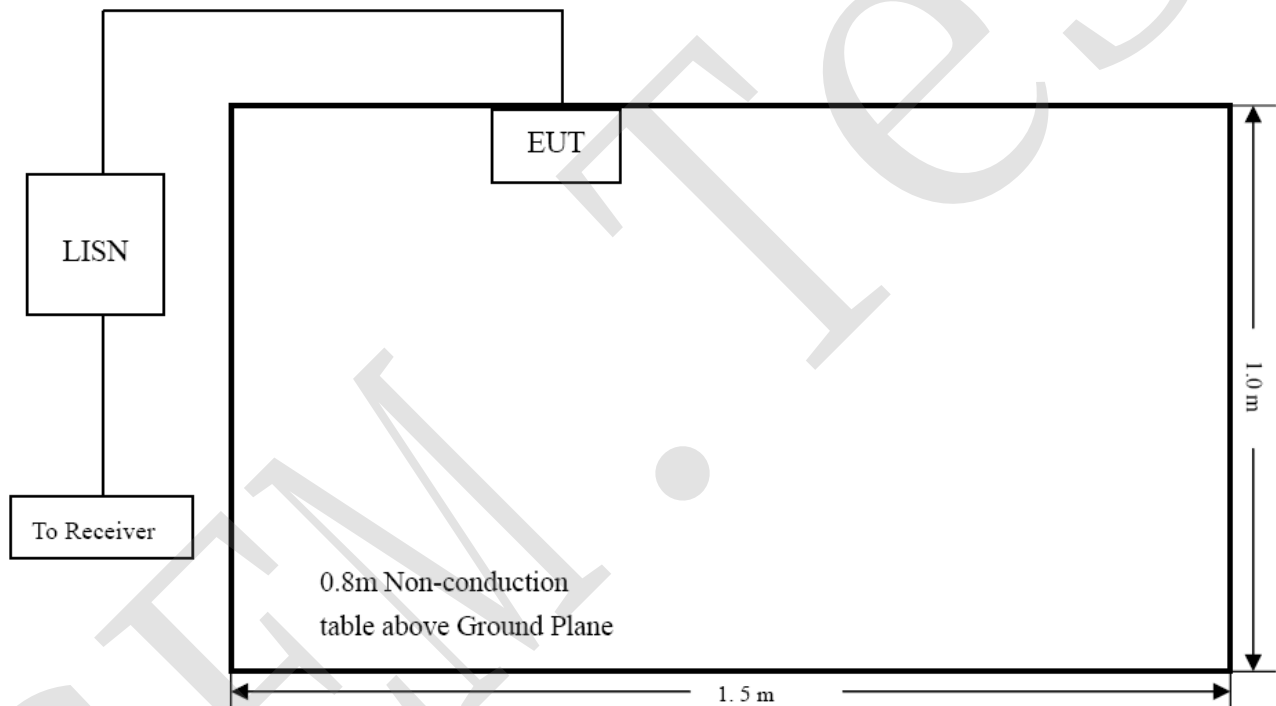
3.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

3.2 Test Procedure

Test is conducting under the description of ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

3.3 Basic Test Setup Block Diagram



3.4 Environmental Conditions

Temperature:	22 ° C
Relative Humidity:	55 %
ATM Pressure:	1015 mbar

3.5 Summary of Test Results/Plots

According to the data in section 3.6, the EUT complied with the ICES-003 Conducted margin for a Class B device, with the *worst* margin reading of:

-5.26 dB at 0.3899 MHz in the Neutral mode, Average detector, TM2 mode, 0.15-30MHz

3.6 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

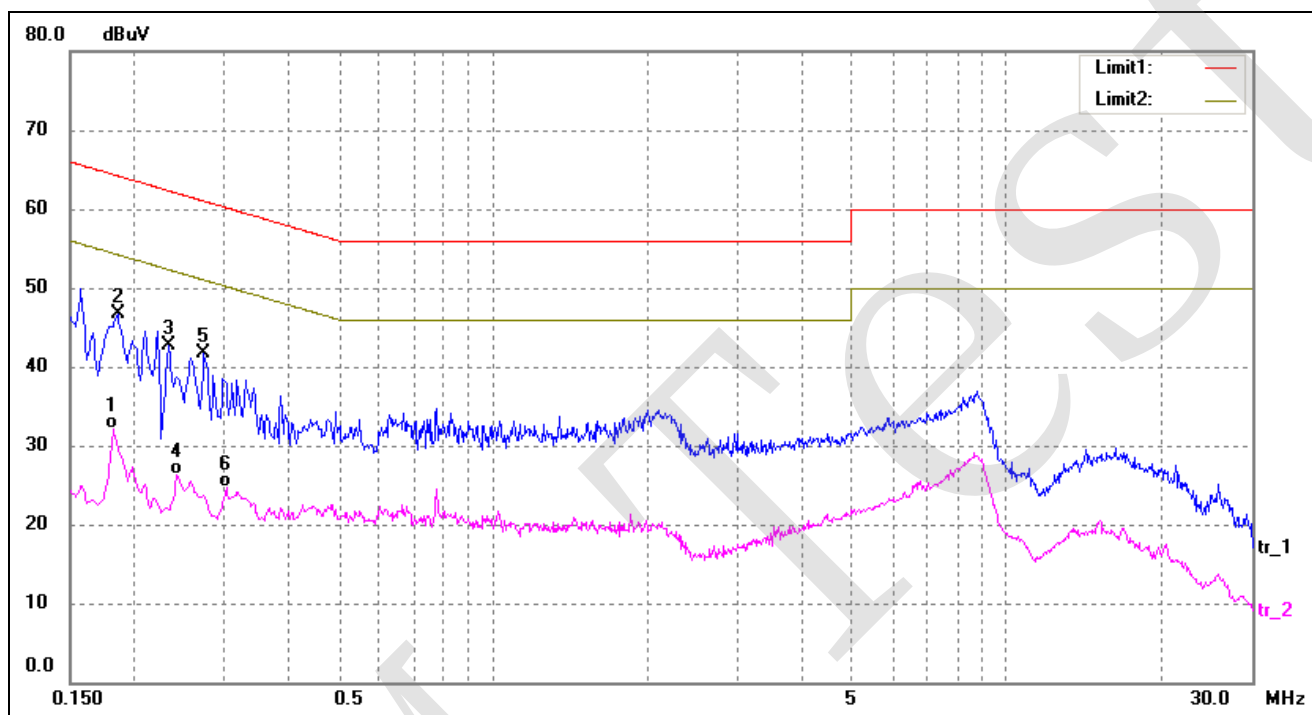
EUT: ITE/Medical Power Supply

Tested Model: GTM96180-1507-2.0

Operating Condition: TM1

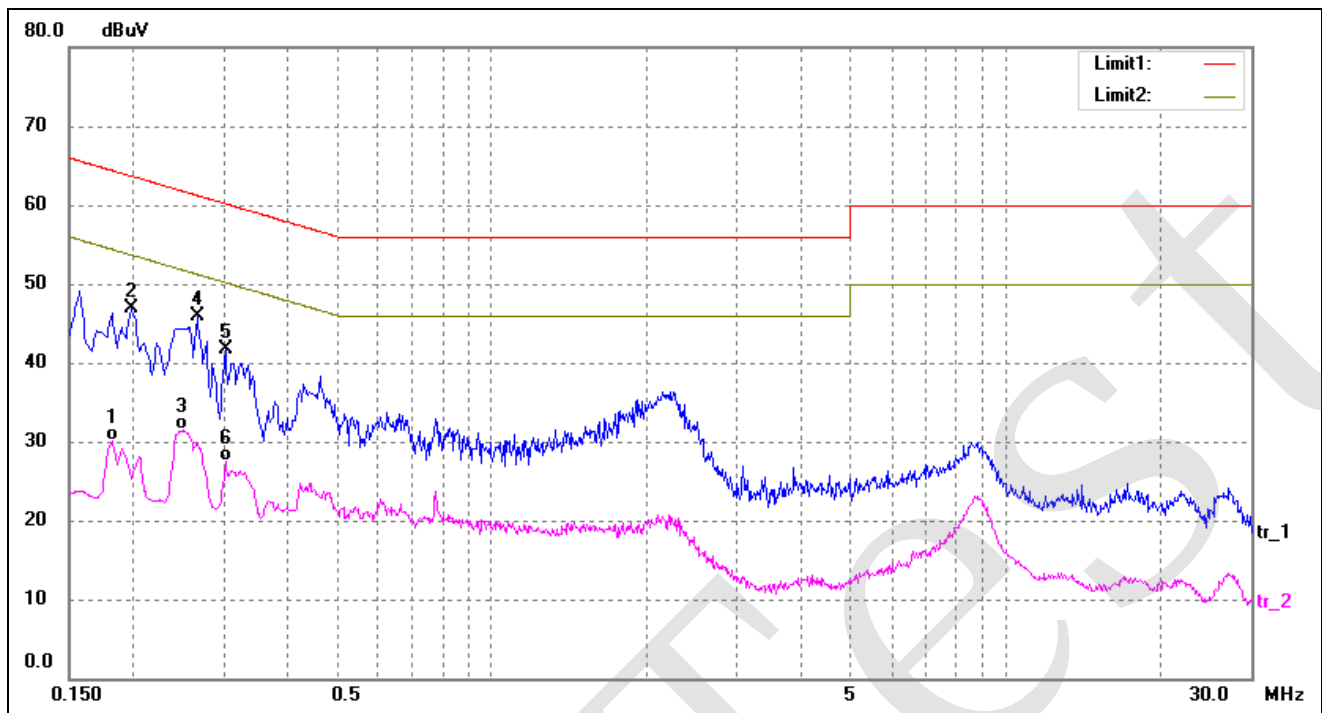
Comment: AC 120V/60Hz

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1820	22.33	9.82	32.15	54.39	-22.24	AVG
2*	0.1860	36.82	9.81	46.63	64.21	-17.58	peak
3	0.2340	32.82	9.80	42.62	62.31	-19.69	peak
4	0.2420	16.45	9.80	26.25	52.03	-25.78	AVG
5	0.2740	31.83	9.80	41.63	61.00	-19.37	peak
6	0.3020	14.85	9.80	24.65	50.19	-25.54	AVG

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1820	20.32	9.82	30.14	54.39	-24.25	AVG
2	0.1980	37.16	9.80	46.96	63.69	-16.73	peak
3	0.2500	21.65	9.80	31.45	51.76	-20.31	AVG
4*	0.2660	36.10	9.80	45.90	61.24	-15.34	peak
5	0.3020	31.98	9.80	41.78	60.19	-18.41	peak
6	0.3020	17.66	9.80	27.46	50.19	-22.73	AVG

Plot of Conducted Emissions Test Data

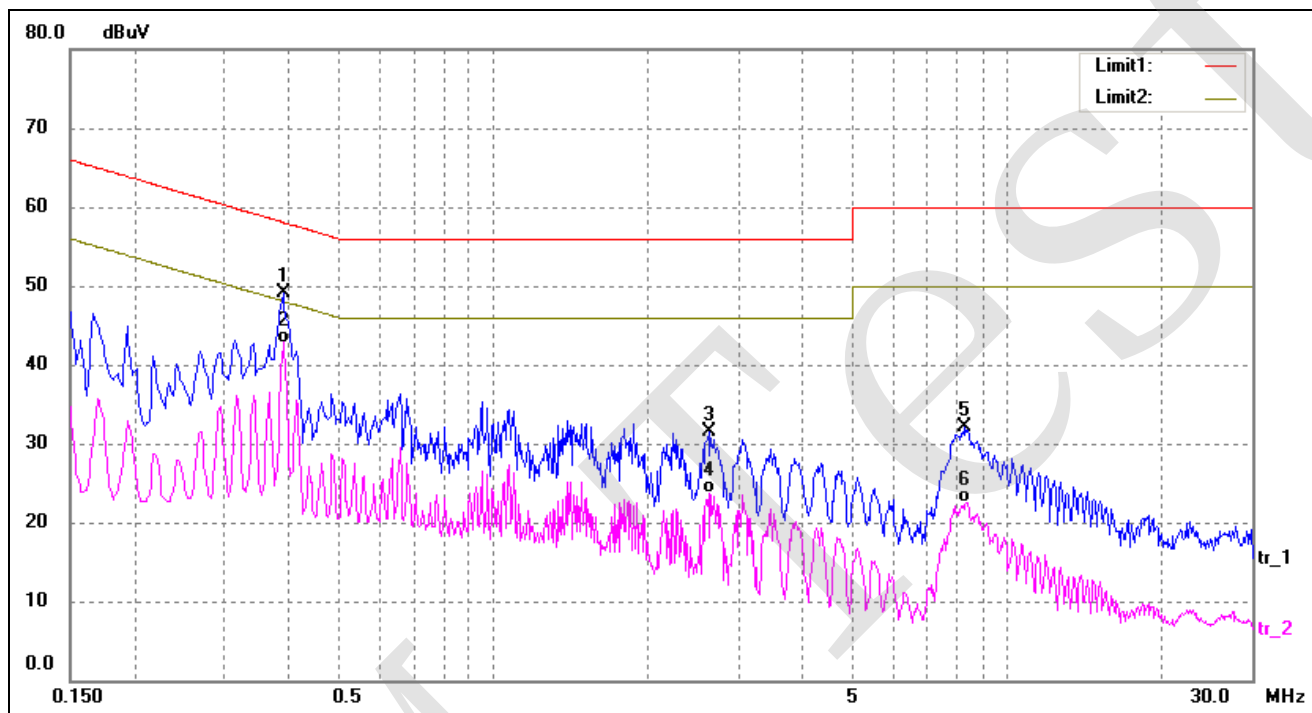
EUT: ITE/Medical Power Supply

Tested Model: GTM96180-1848

Operating Condition: TM2

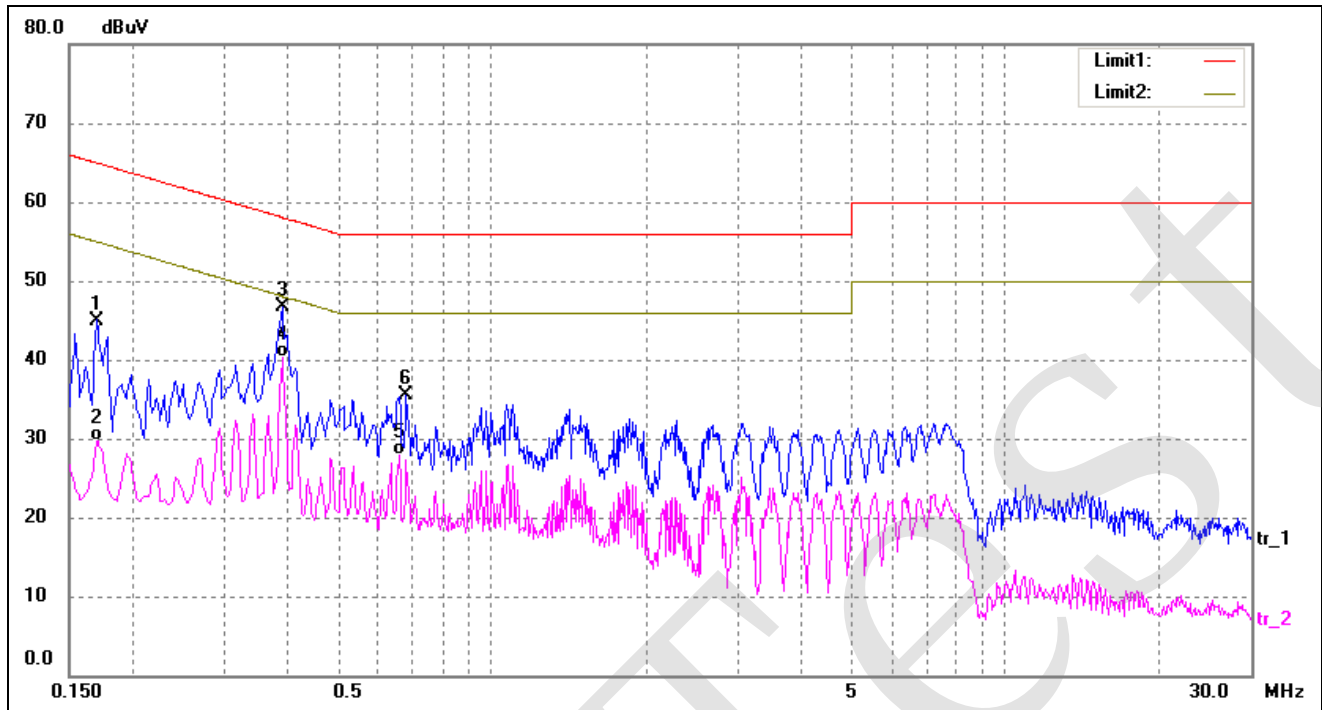
Comment: AC 120V/60Hz

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3899	39.26	9.80	49.06	58.06	-9.00	peak
2*	0.3899	33.00	9.80	42.80	48.06	-5.26	AVG
3	2.6340	21.75	9.72	31.47	56.00	-24.53	peak
4	2.6340	13.91	9.72	23.63	46.00	-22.37	AVG
5	8.3139	22.49	9.57	32.06	60.00	-27.94	peak
6	8.3340	12.94	9.57	22.51	50.00	-27.49	AVG

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1700	35.17	9.83	45.00	64.96	-19.96	peak
2	0.1700	19.87	9.83	29.70	54.96	-25.26	AVG
3	0.3899	36.81	9.80	46.61	58.06	-11.45	peak
4*	0.3899	30.52	9.80	40.32	48.06	-7.74	AVG
5	0.6580	18.17	9.79	27.96	46.00	-18.04	AVG
6	0.6820	25.65	9.79	35.44	56.00	-20.56	peak

Plot of Conducted Emissions Test Data

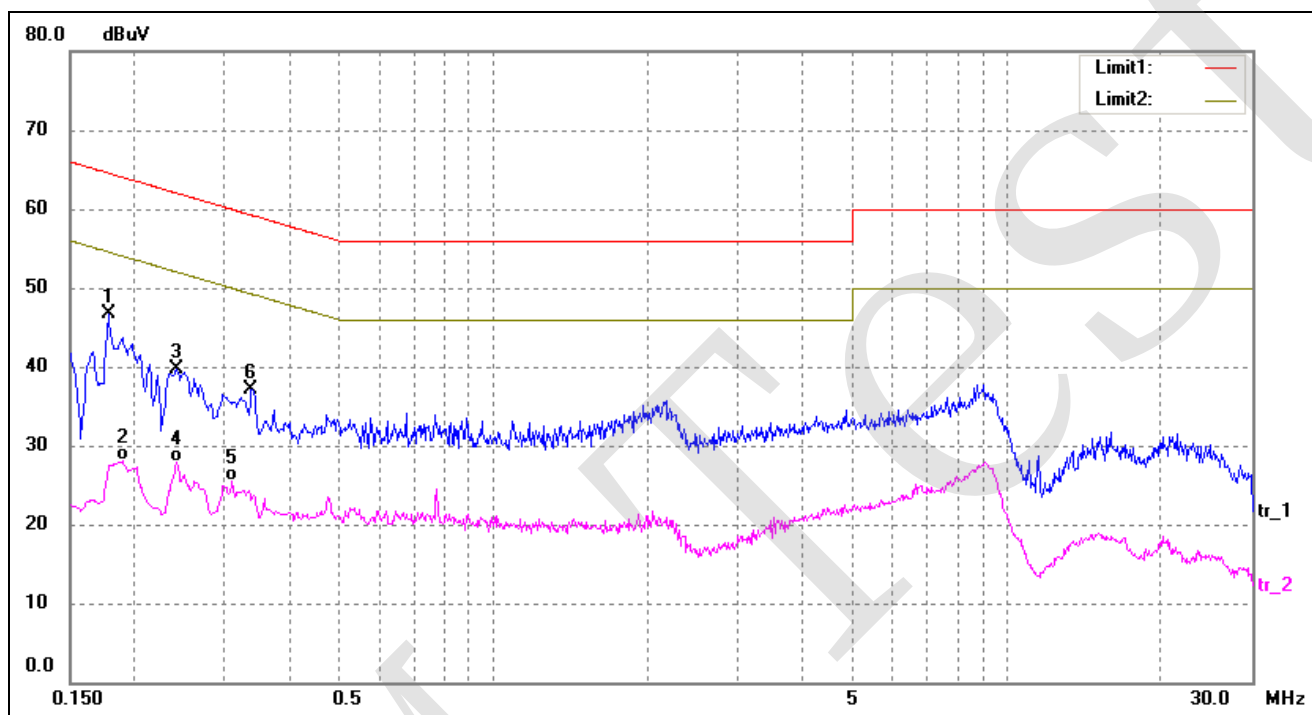
EUT: ITE/Medical Power Supply

Tested Model: GTM96180-1811-2.0-T2

Operating Condition: TM3

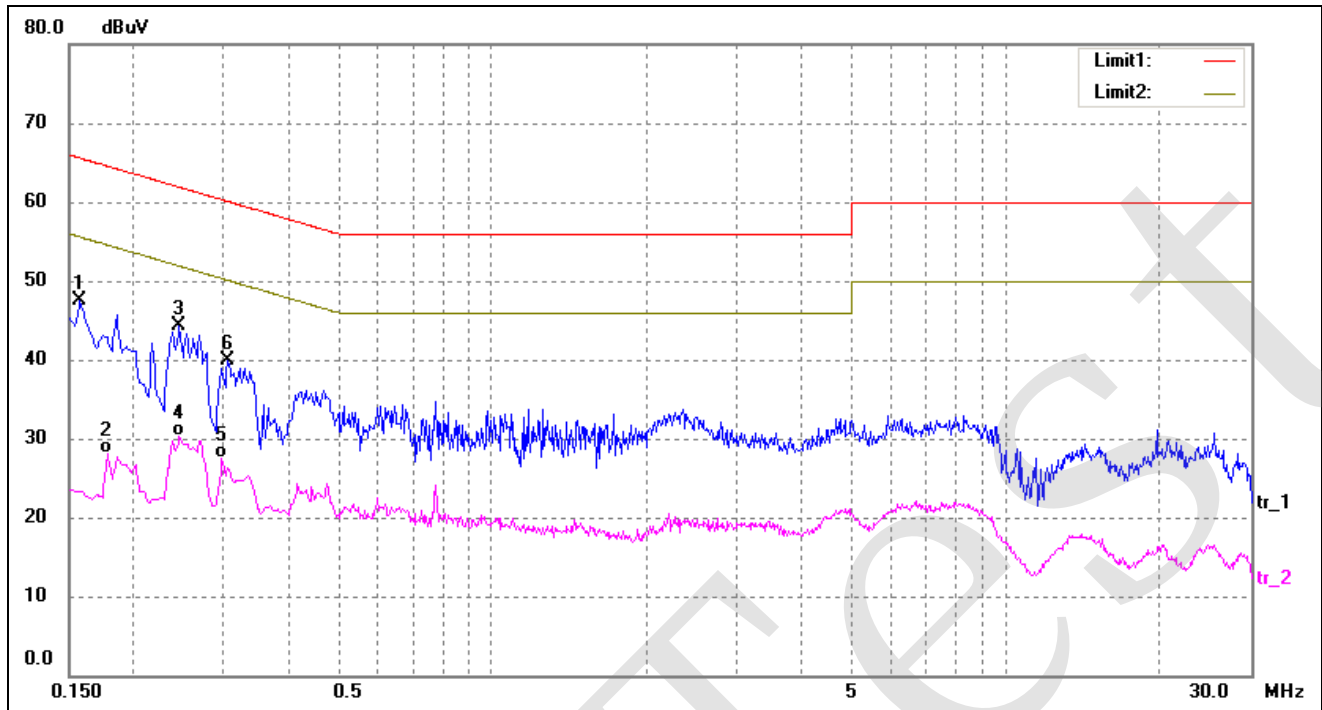
Comment: AC 120V/60Hz

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1780	36.79	9.82	46.61	64.58	-17.97	peak
2	0.1900	18.20	9.81	28.01	54.04	-26.03	AVG
3	0.2420	29.88	9.80	39.68	62.03	-22.35	peak
4	0.2420	18.14	9.80	27.94	52.03	-24.09	AVG
5	0.3100	15.72	9.80	25.52	49.97	-24.45	AVG
6	0.3380	27.33	9.80	37.13	59.25	-22.12	peak

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	37.63	9.84	47.47	65.57	-18.10	peak
2	0.1780	18.33	9.82	28.15	54.58	-26.43	AVG
3*	0.2460	34.45	9.80	44.25	61.89	-17.64	peak
4	0.2460	20.51	9.80	30.31	51.89	-21.58	AVG
5	0.2980	17.61	9.80	27.41	50.30	-22.89	AVG
6	0.3060	30.18	9.80	39.98	60.08	-20.10	peak

Plot of Conducted Emissions Test Data

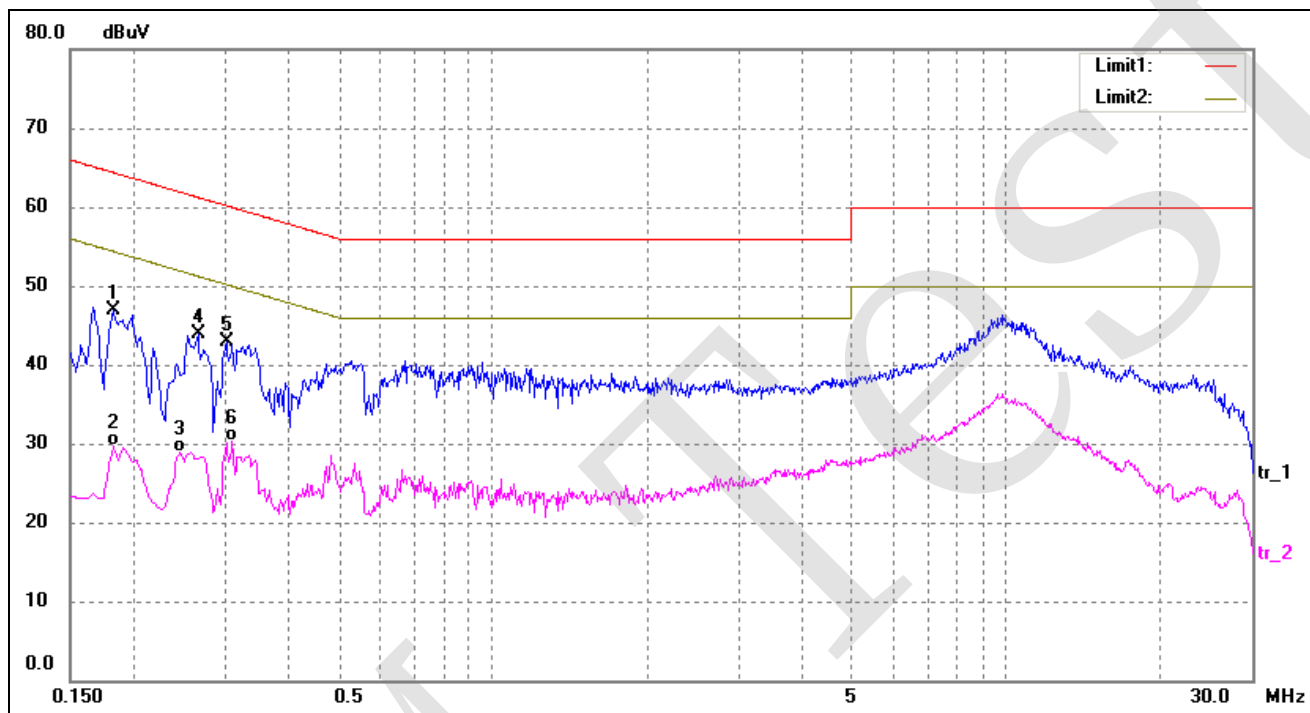
EUT: ITE/Medical Power Supply

Tested Model: GTM96180--1811-2.0-T3

Operating Condition: TM4

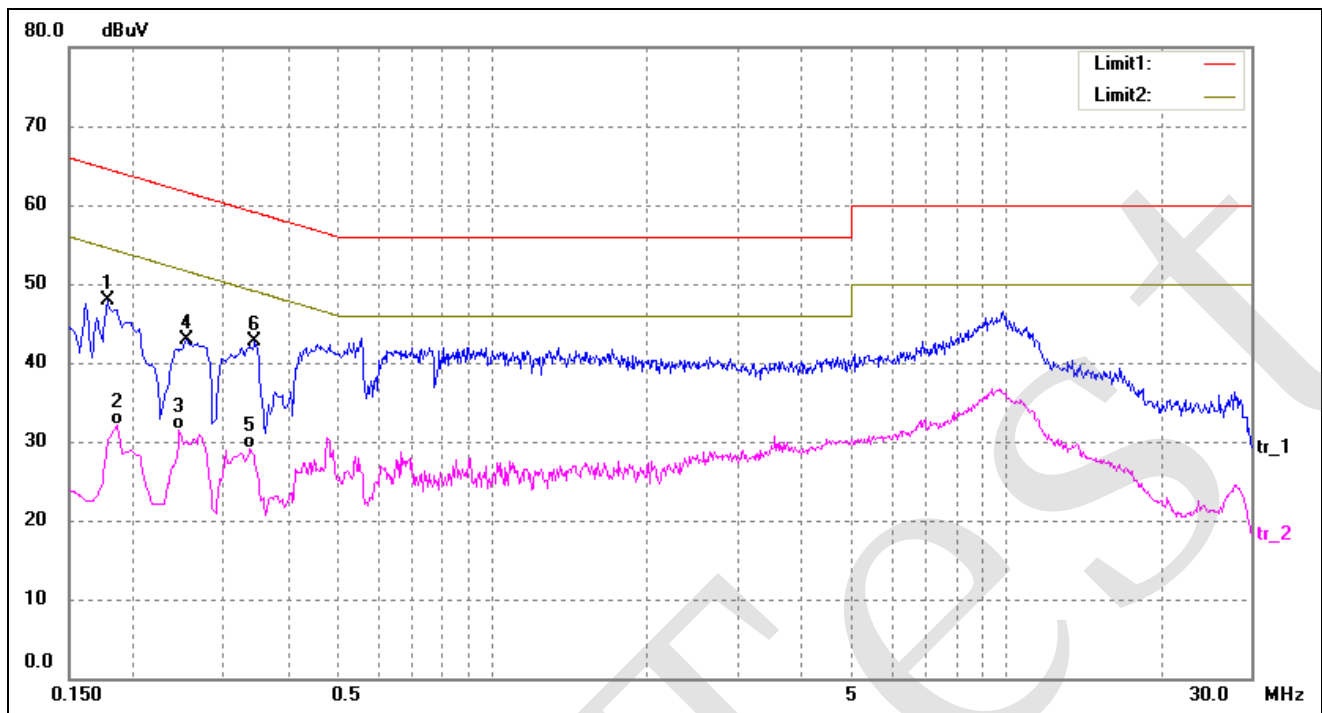
Comment: AC 120V/60Hz

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1820	37.07	9.82	46.89	64.39	-17.50	peak
2	0.1820	19.96	9.82	29.78	54.39	-24.61	AVG
3	0.2460	19.16	9.80	28.96	51.89	-22.93	AVG
4	0.2660	34.04	9.80	43.84	61.24	-17.40	peak
5*	0.3020	33.09	9.80	42.89	60.19	-17.30	peak
6	0.3100	20.45	9.80	30.25	49.97	-19.72	AVG

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1780	38.15	9.82	47.97	64.58	-16.61	peak
2	0.1860	22.37	9.81	32.18	54.21	-22.03	AVG
3	0.2460	21.79	9.80	31.59	51.89	-20.30	AVG
4	0.2540	33.02	9.80	42.82	61.63	-18.81	peak
5	0.3380	19.36	9.80	29.16	49.25	-20.09	AVG
6*	0.3460	32.82	9.80	42.62	59.06	-16.44	peak

4. Radiated Disturbance

4.1 Measurement Uncertainty

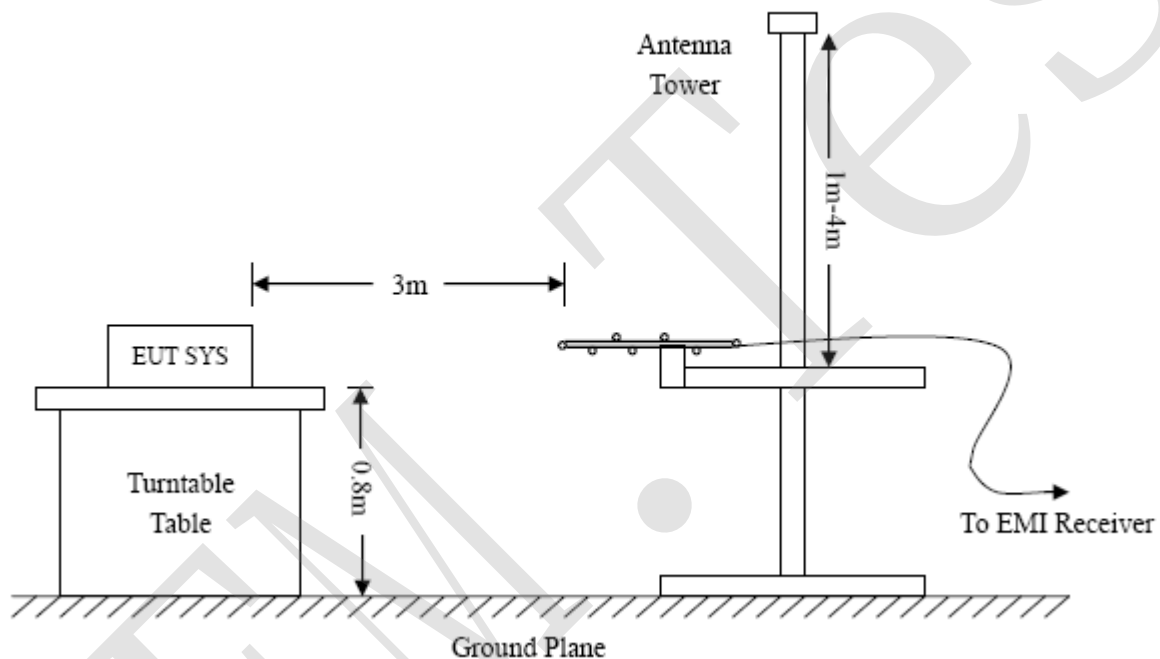
Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement is ± 5.10 dB.

4.2 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the ICES-003 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.



4.3 Test Receiver Setup

During the radiated emission test for above 1GHz, the test receiver was set with the following configurations:

For peak detector:

RBW = 1000kHz, VBW = 3000kHz, Sweep Time = Auto

For average detector:

RBW = 1000kHz, VBW = 10Hz, Sweep Time = Auto

4.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} - \text{Corr. Factor}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB means the emission is 6dB below the maximum limit for a Class B device. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{ICES-003 Limit}$$

4.5 Environmental Conditions

Temperature:	23° C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

4.6 Summary of Test Results/Plots

According to the data in section 4.6, the EUT complied with the ICES-003 Class B standards, and had the worst margin is:

-4.37 dB at 33.3279 MHz in the Vertical polarization, TM4 mode, 30 MHz to 1 GHz, 3Meters

Plot of Radiated Emissions Test Data

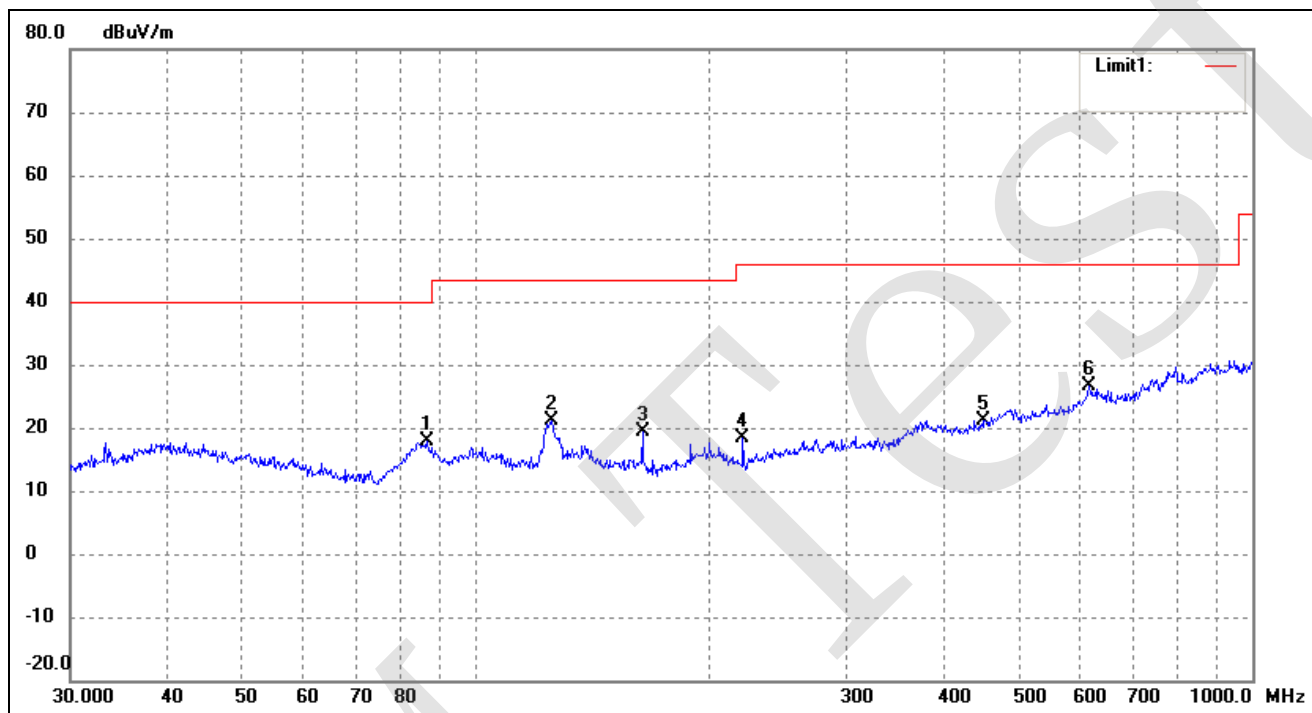
EUT: ITE/Medical Power Supply

Tested Model: GTM96180-1507-2.0

Operating Condition: TM1

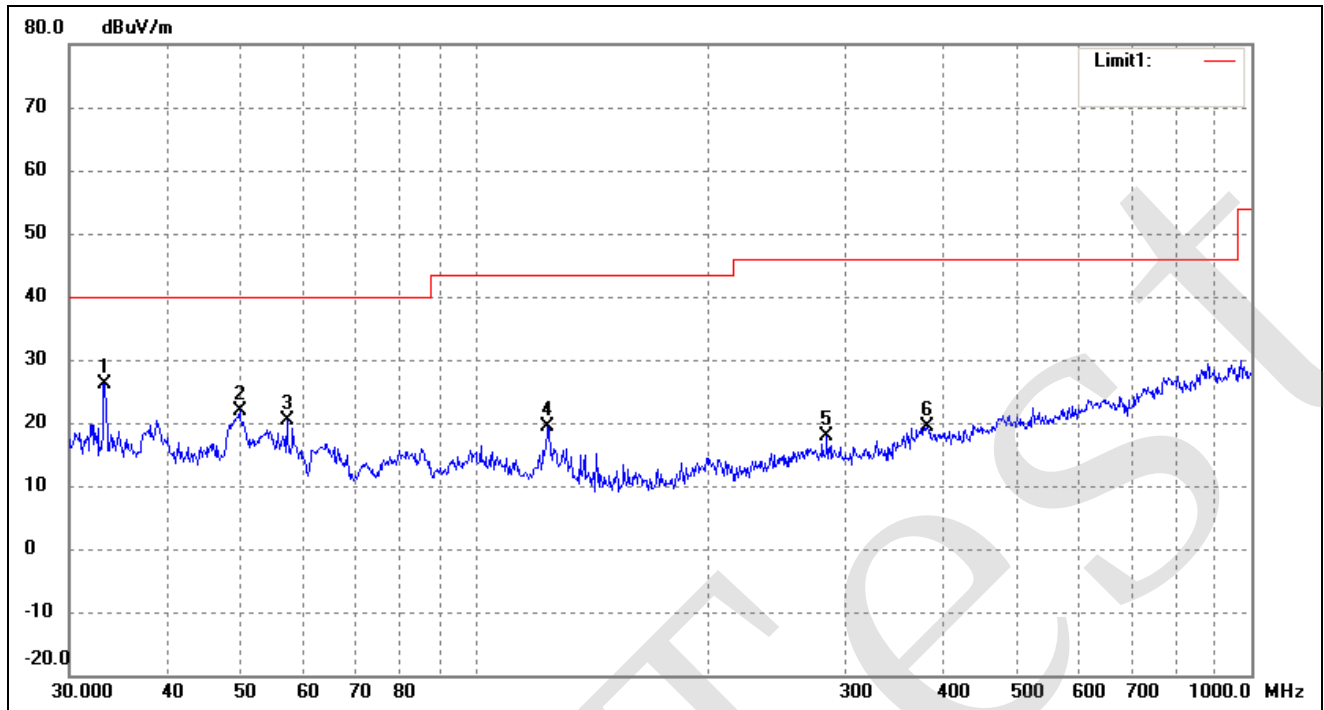
Comment: AC 120V/60Hz

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	86.5029	32.50	-14.64	17.86	40.00	-22.14	0	100	peak
2	125.0066	35.20	-13.98	21.22	43.50	-22.28	0	100	peak
3	163.7550	34.29	-14.89	19.40	43.50	-24.10	0	100	peak
4	220.6171	30.78	-12.44	18.34	46.00	-27.66	0	100	peak
5	451.1350	28.27	-7.07	21.20	46.00	-24.80	0	100	peak
6	616.3718	29.66	-3.07	26.59	46.00	-19.41	0	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.3279	38.08	-11.93	26.15	40.00	-13.85	0	100	peak
2	49.7068	32.20	-10.40	21.80	40.00	-18.20	0	100	peak
3	57.1914	33.08	-12.76	20.32	40.00	-19.68	0	100	peak
4	124.1330	33.39	-13.93	19.46	43.50	-24.04	0	100	peak
5	283.9791	27.42	-9.56	17.86	46.00	-28.14	0	100	peak
6	382.5879	26.44	-7.07	19.37	46.00	-26.63	0	100	peak

Plot of Radiated Emissions Test Data

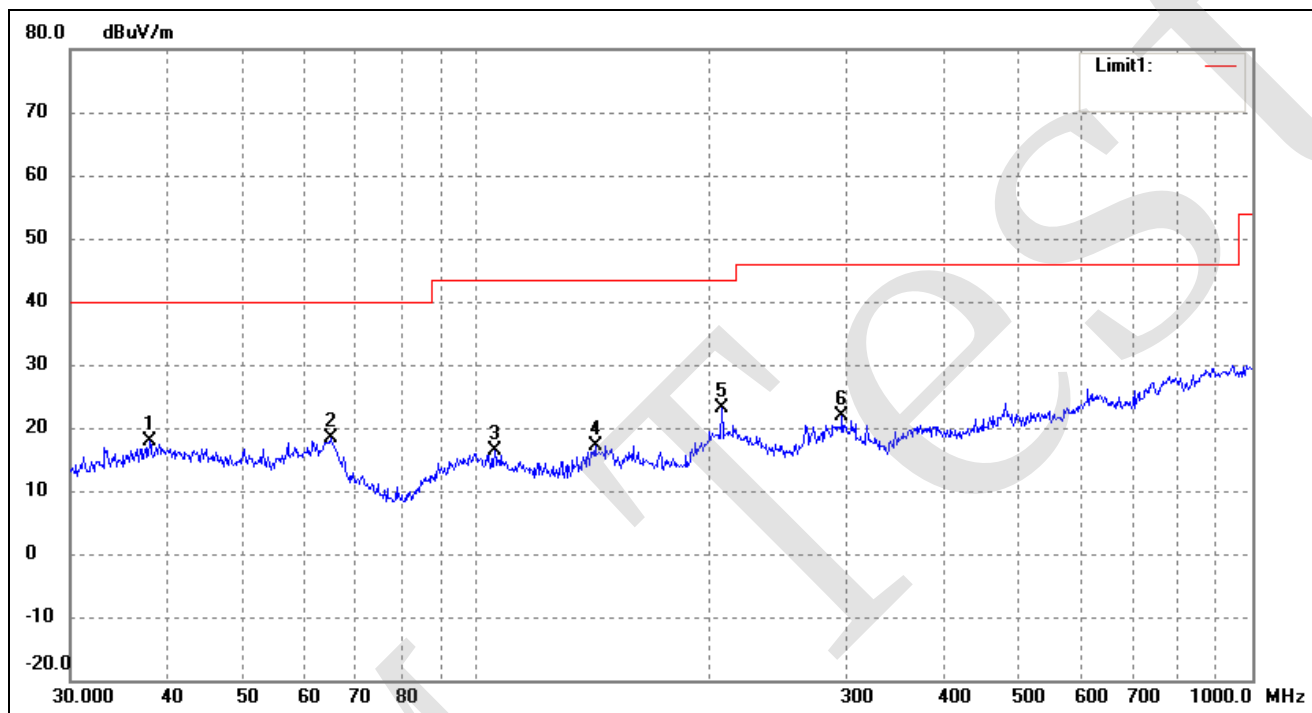
EUT: ITE/Medical Power Supply

Tested Model: GTM96180-1848

Operating Condition: TM2

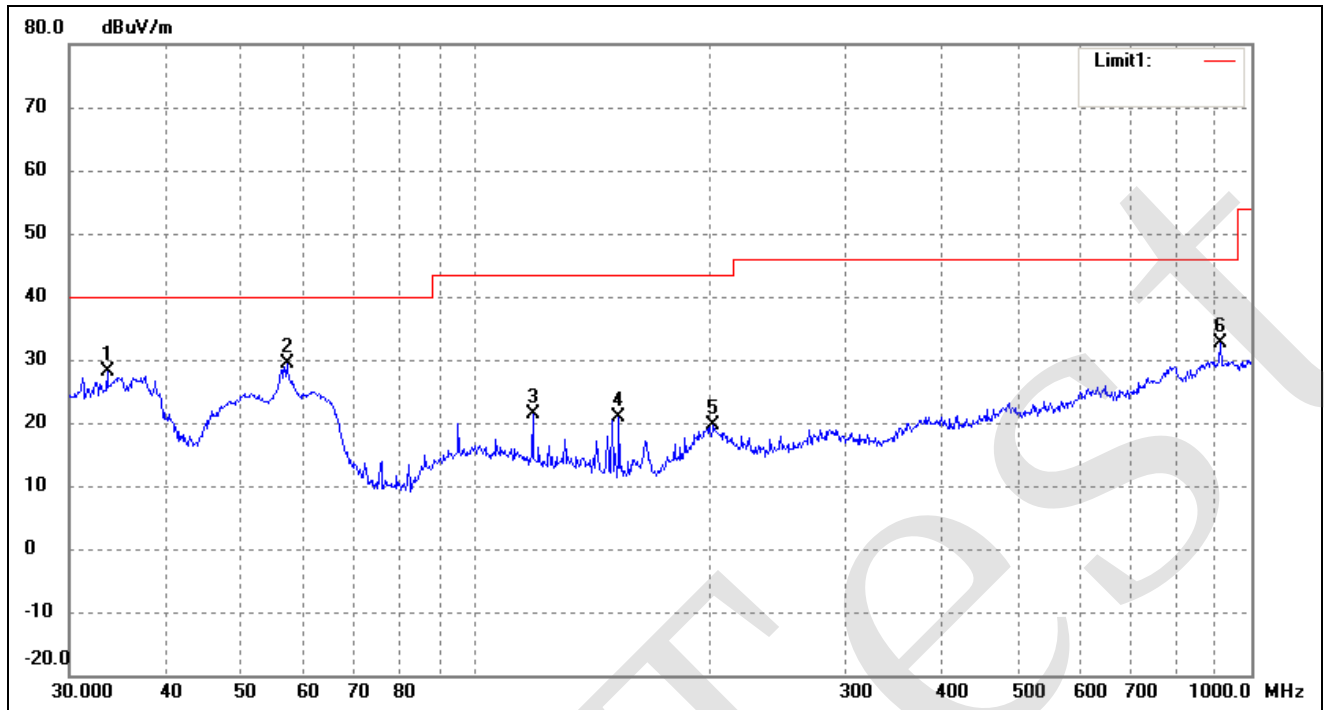
Comment: AC 120V/60Hz

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	37.9450	28.76	-10.87	17.89	40.00	-22.11	0	100	peak
2	64.8865	31.56	-13.24	18.32	40.00	-21.68	0	100	peak
3	105.6415	28.36	-12.05	16.31	43.50	-27.19	0	100	peak
4	142.3243	32.08	-14.84	17.24	43.50	-26.26	0	100	peak
5	207.1226	34.97	-11.92	23.05	43.50	-20.45	0	100	peak
6	296.1836	31.62	-9.70	21.92	46.00	-24.08	0	100	peak

Test Specification: Vertical

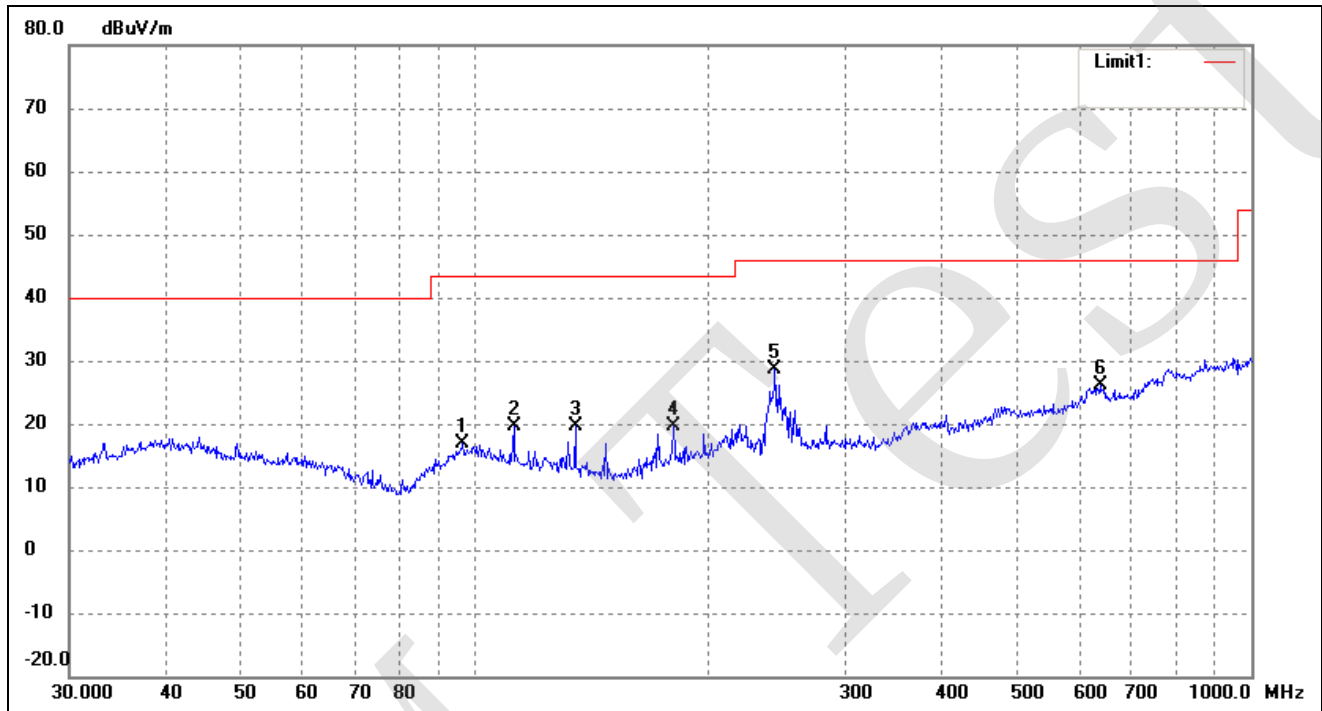


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.5624	39.92	-11.88	28.04	40.00	-11.96	0	100	peak
2	57.1914	42.15	-12.76	29.39	40.00	-10.61	0	100	peak
3	118.6014	34.90	-13.54	21.36	43.50	-22.14	0	100	peak
4	153.2004	35.81	-14.98	20.83	43.50	-22.67	0	100	peak
5	202.8104	31.23	-11.72	19.51	43.50	-23.99	0	100	peak
6	912.8620	30.88	1.63	32.51	46.00	-13.49	0	100	peak

Plot of Radiated Emissions Test Data

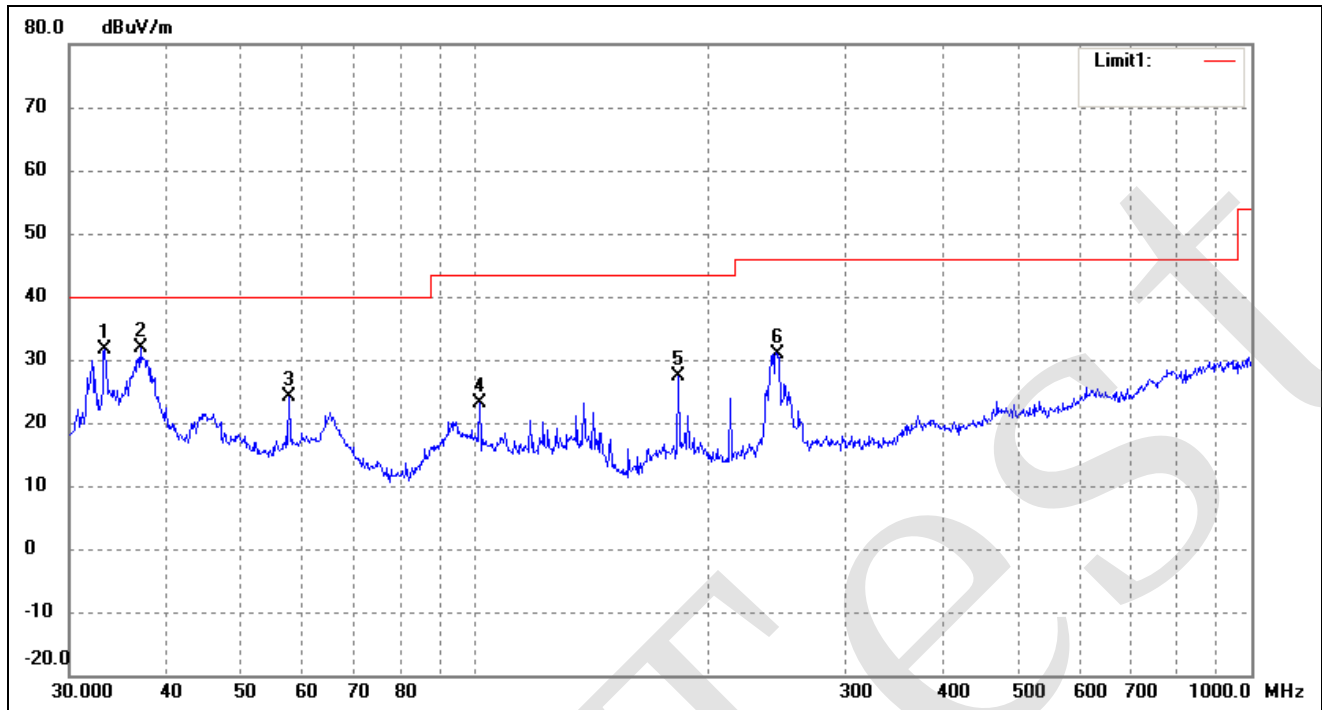
EUT: ITE/Medical Power Supply
Tested Model: GTM96180-1811-2.0-T2
Operating Condition: TM3
Comment: AC 120V/60Hz

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	96.4362	29.12	-12.19	16.93	43.50	-26.57	0	100	peak
2	112.1305	32.38	-12.80	19.58	43.50	-23.92	0	100	peak
3	134.5592	34.24	-14.50	19.74	43.50	-23.76	0	100	peak
4	180.0165	33.84	-14.22	19.62	43.50	-23.88	0	100	peak
5	243.3772	39.39	-10.80	28.59	46.00	-17.41	0	100	peak
6	638.3686	29.23	-3.16	26.07	46.00	-19.93	0	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.3279	43.48	-11.93	31.55	40.00	-8.45	0	100	peak
2	37.0248	42.86	-11.09	31.77	40.00	-8.23	0	100	peak
3	57.5939	37.03	-12.89	24.14	40.00	-15.86	0	100	peak
4	101.2885	34.76	-11.55	23.21	43.50	-20.29	0	100	peak
5	182.5592	41.25	-13.88	27.37	43.50	-16.13	0	100	peak
6	245.0900	41.52	-10.73	30.79	46.00	-15.21	0	100	peak

Plot of Radiated Emissions Test Data

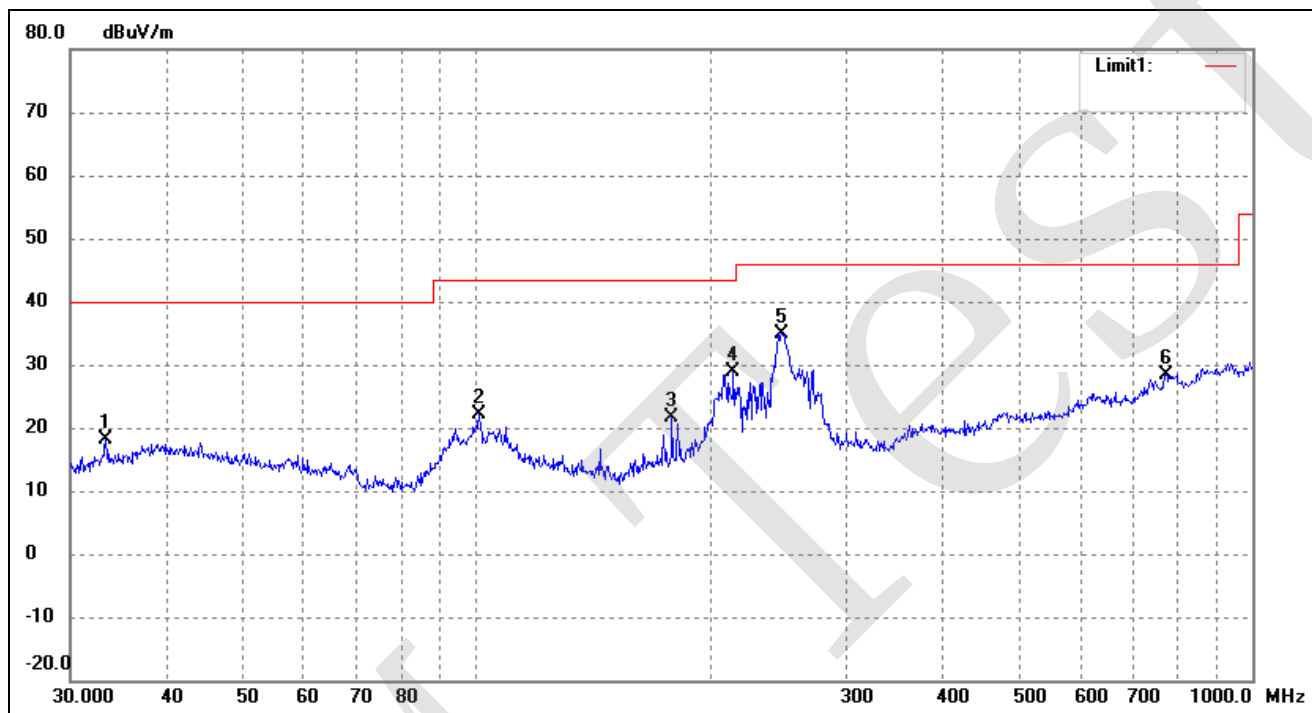
EUT: ITE/Medical Power Supply

Tested Model: GTM96180-1811-2.0-T3

Operating Condition: TM4

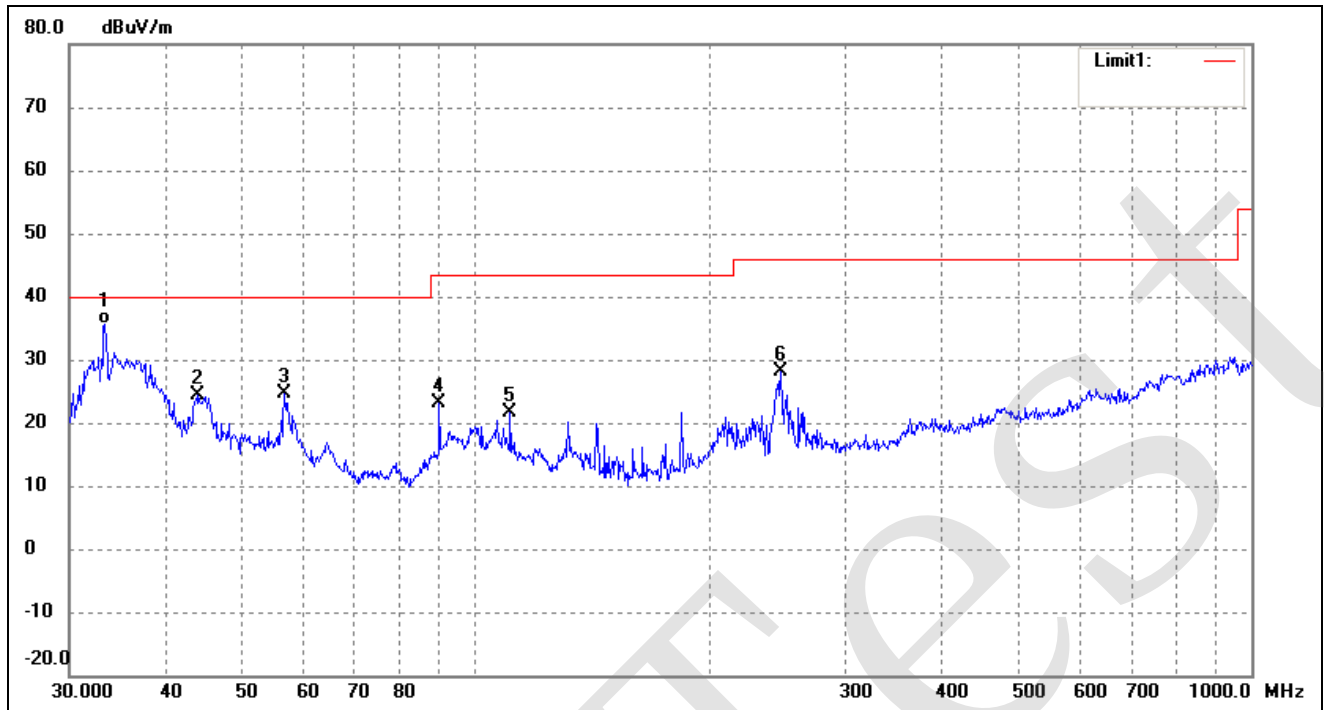
Comment: AC 120V/60Hz

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.3279	30.10	-11.93	18.17	40.00	-21.83	0	100	peak
2	100.9339	33.52	-11.51	22.01	43.50	-21.49	0	100	peak
3	178.7584	35.95	-14.27	21.68	43.50	-21.82	0	100	peak
4	214.5143	41.00	-12.24	28.76	43.50	-14.74	0	100	peak
5	247.6819	45.60	-10.60	35.00	46.00	-11.00	0	100	peak
6	774.1584	28.43	0.04	28.47	46.00	-17.53	0	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	33.3279	47.56	-11.93	35.63	40.00	-4.37	0	100	QP
2	43.9658	34.89	-10.44	24.45	40.00	-15.55	0	100	peak
3	56.7917	37.25	-12.63	24.62	40.00	-15.38	0	100	peak
4	89.9047	36.84	-13.66	23.18	43.50	-20.32	0	100	peak
5	110.9571	34.36	-12.66	21.70	43.50	-21.80	0	100	peak
6	247.6819	38.72	-10.60	28.12	46.00	-17.88	0	100	peak

EXHIBIT 1 - PRODUCT LABELING

Proposed IC Label Format

CAN ICES-3 (B) / NMB-3 (B)

Specifications: Text is Black in color and is justified. The label shall be permanently affixed to the ITE or displayed electronically and its text must be clearly legible. When the dimension of the device is too small or it is otherwise not practical to place the label on the ITE, the label shall be placed in a prominent location in the user manual supplied with the ITE. The user manual may be in an electronic format and must be readily available.

Proposed Label Location on EUT

Test Model: GTM96180-1507-2.0

IC Label Location



Test Model: GTM96180-1848

IC Label Location



Test Model: GTM96180-1811-2.0-T2

IC Label Location



Test Model: GTM96180-1811-2.0-T3

IC Label Location



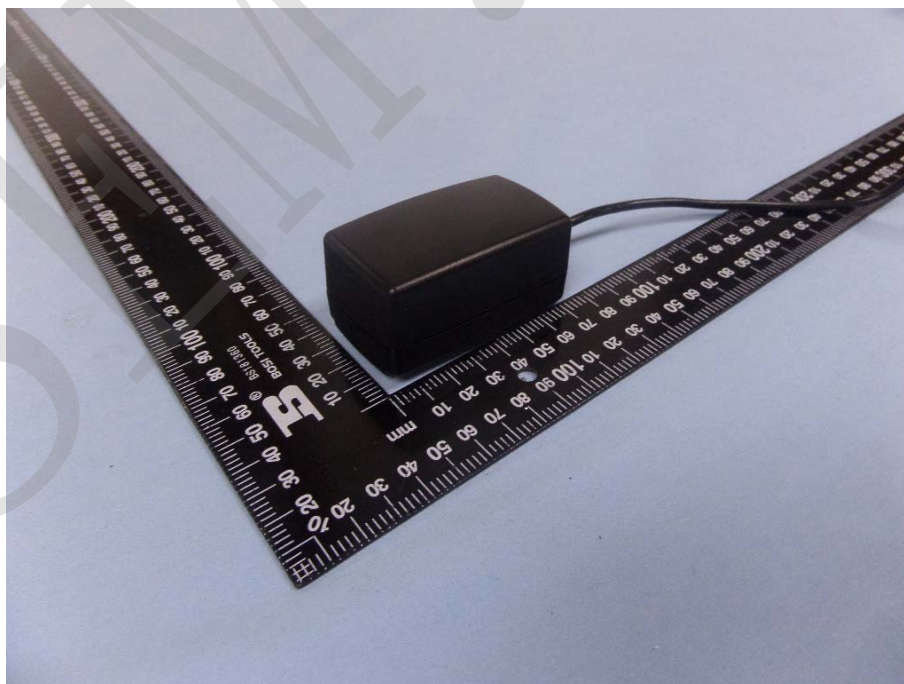
EXHIBIT 2 - EUT PHOTOGRAPHS

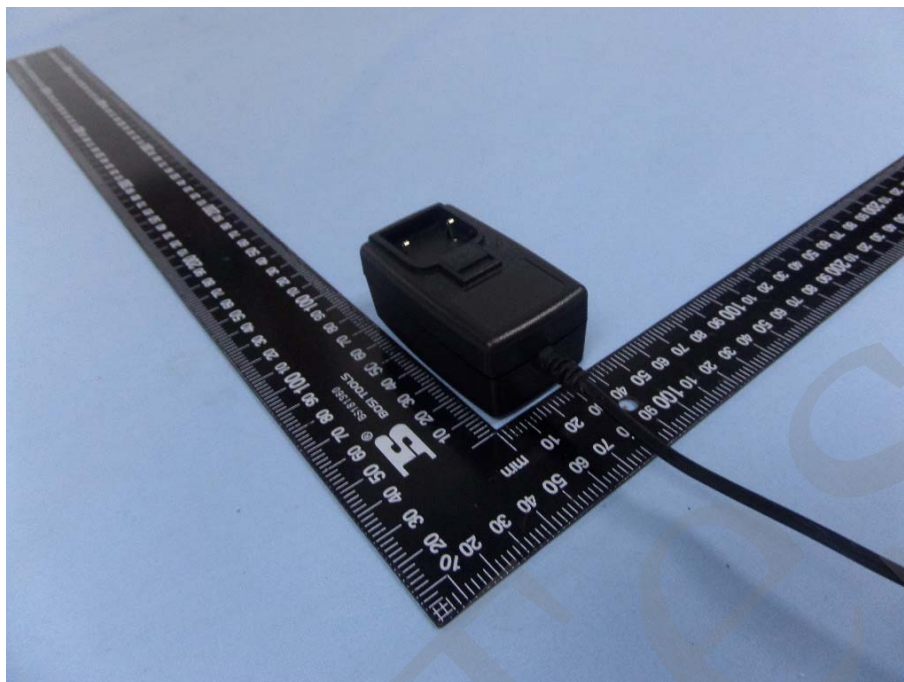
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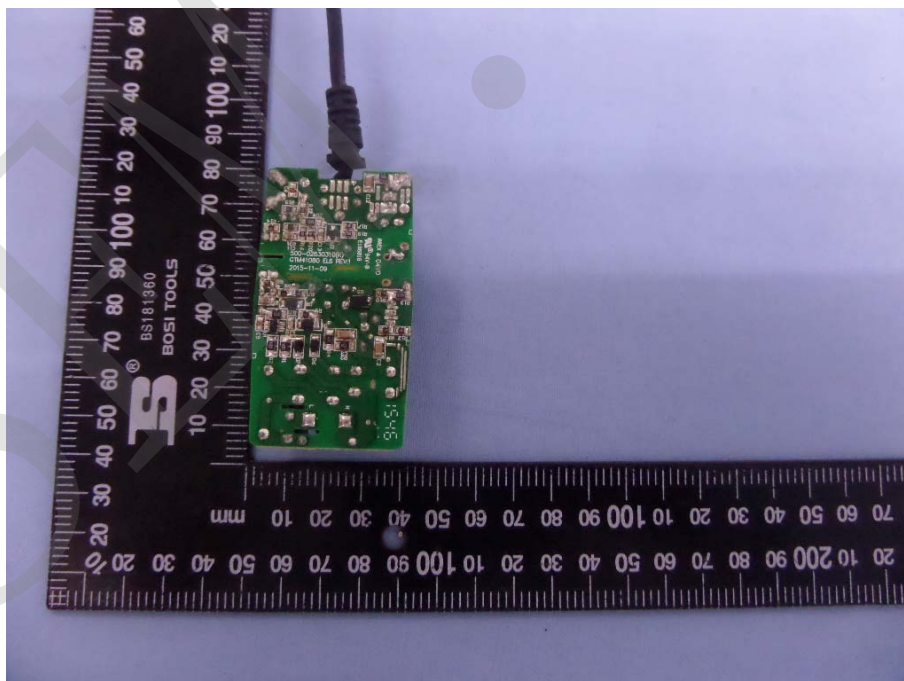
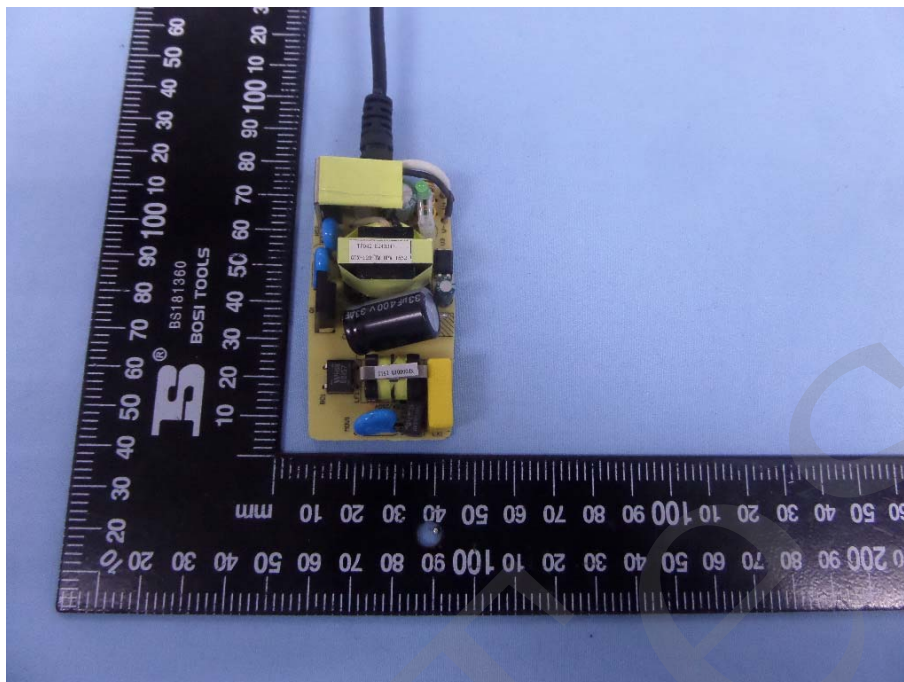
EUT View 1



EUT View 2



EUT View 3**EUT Housing and Board View 1**

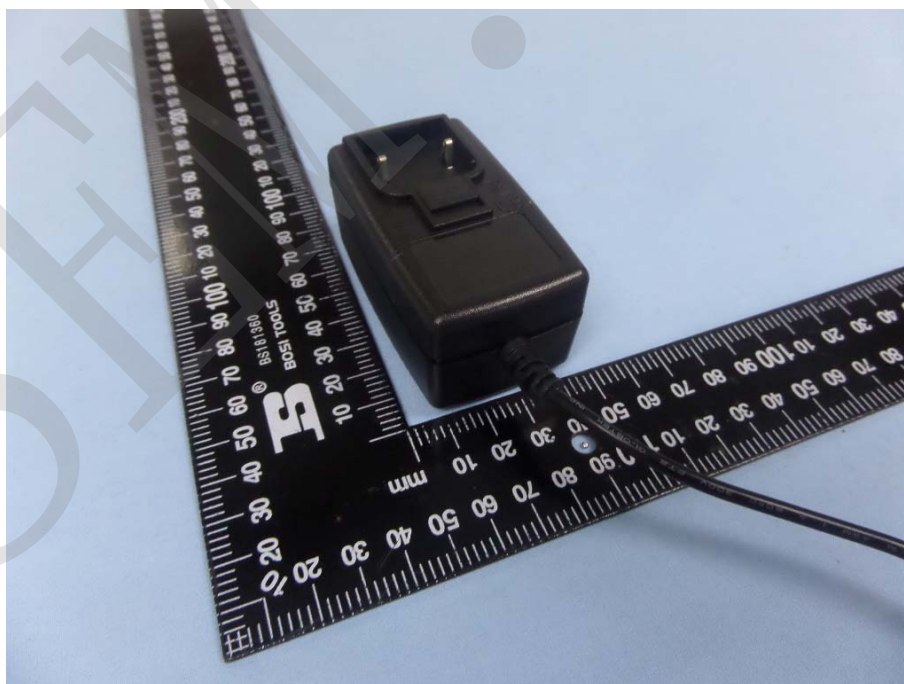


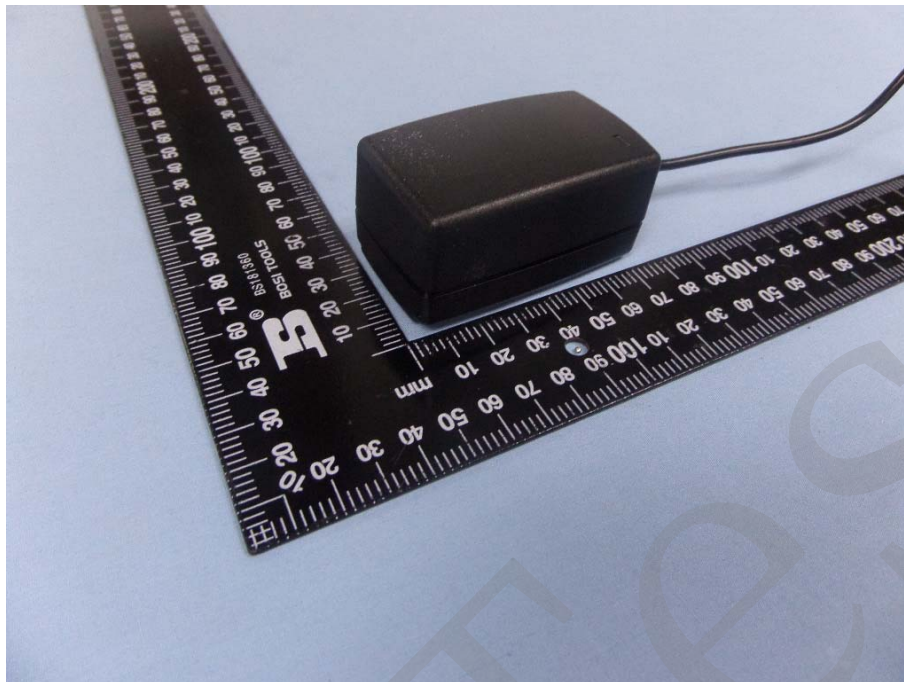
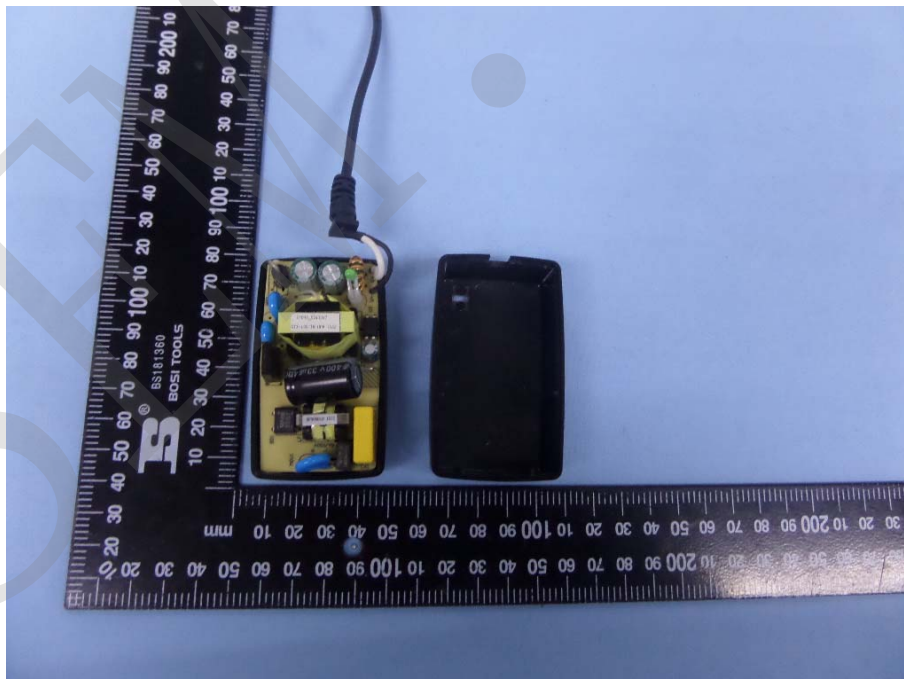
Test Model: GTM96180-1848

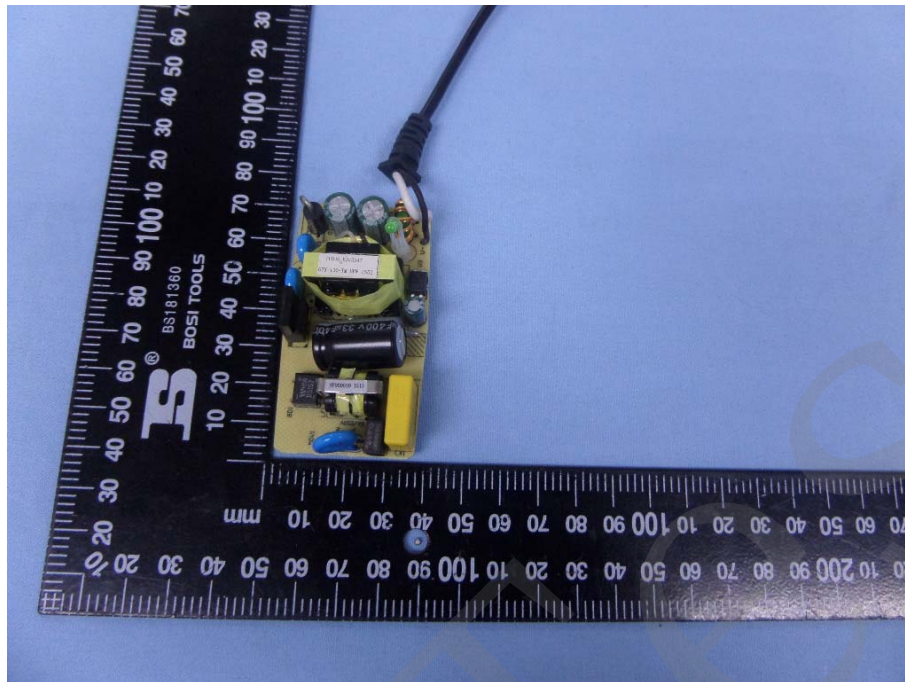
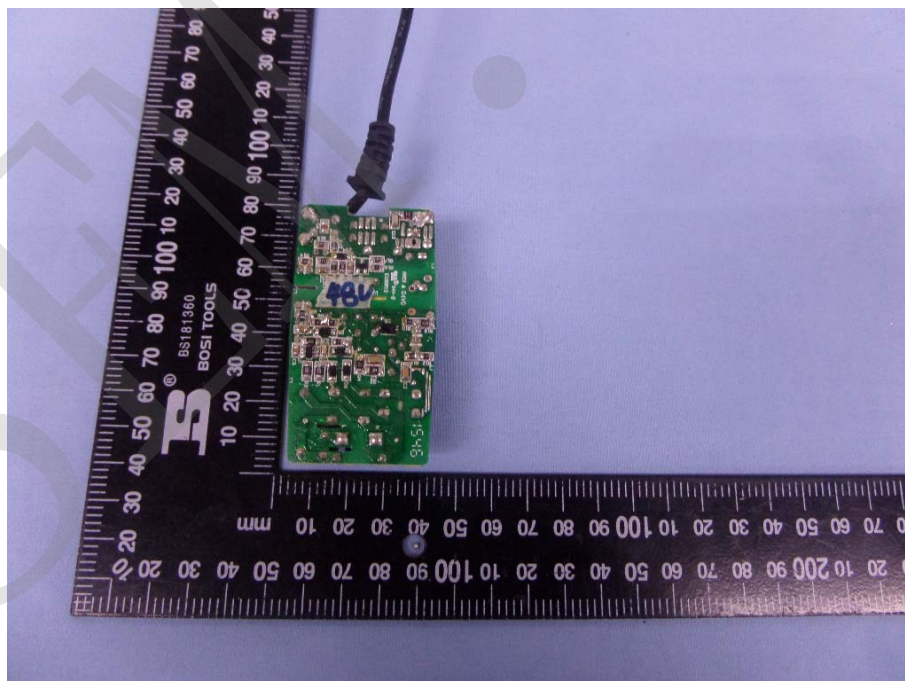
EUT View 1



EUT View 2



EUT View 3**EUT Housing and Board View 1**

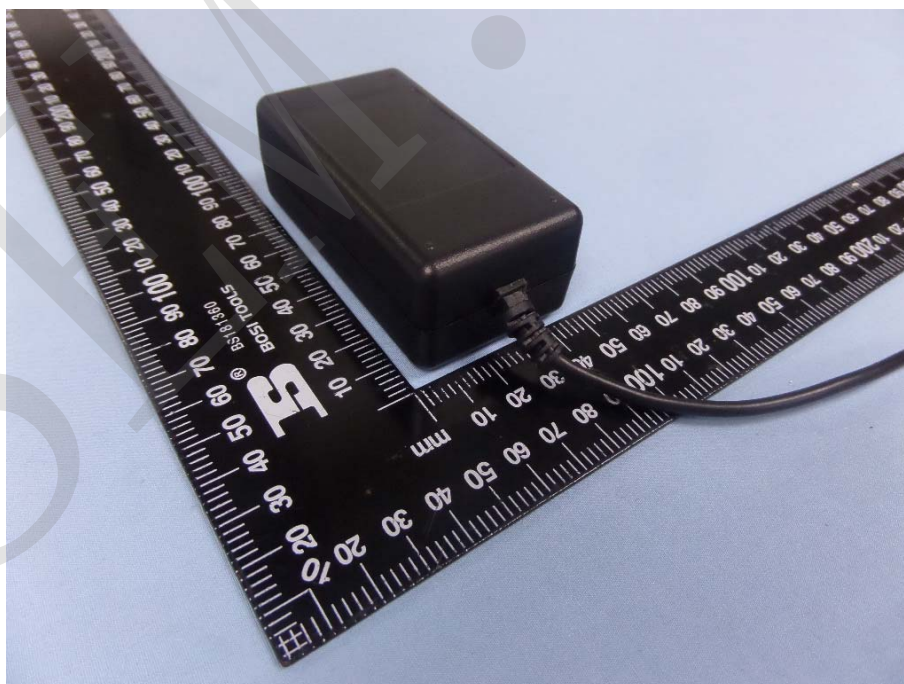
Solder Board-Component View 1**Solder Board-Component View 2**

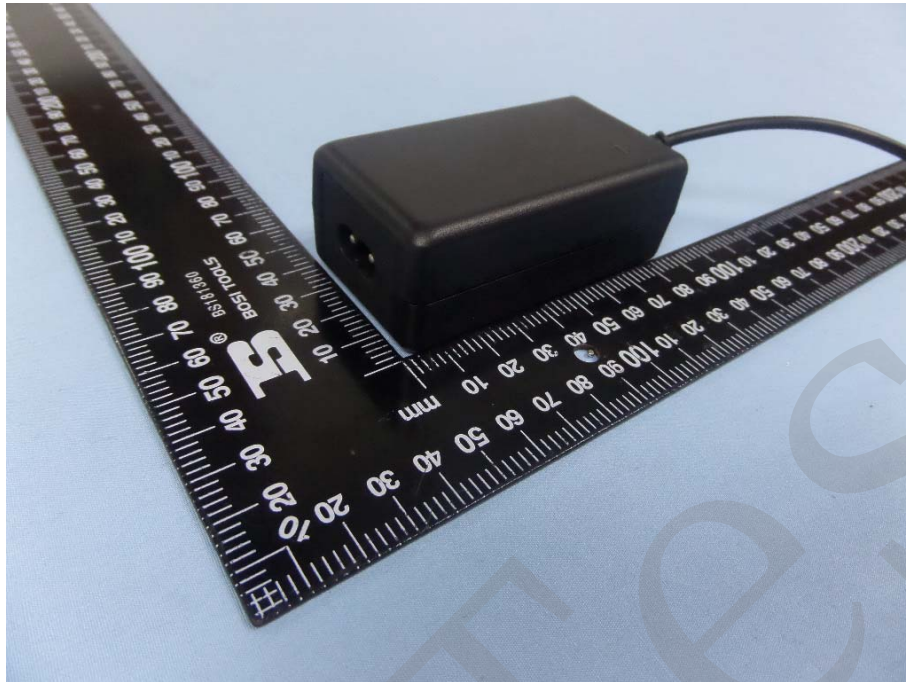
Test Model: GTM96180-1811-2.0-T2

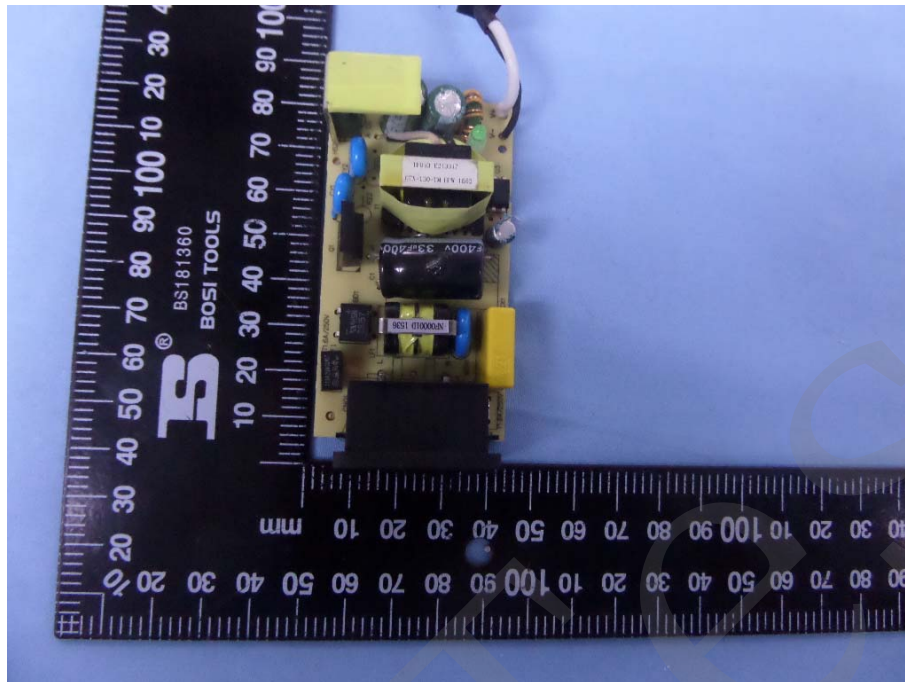
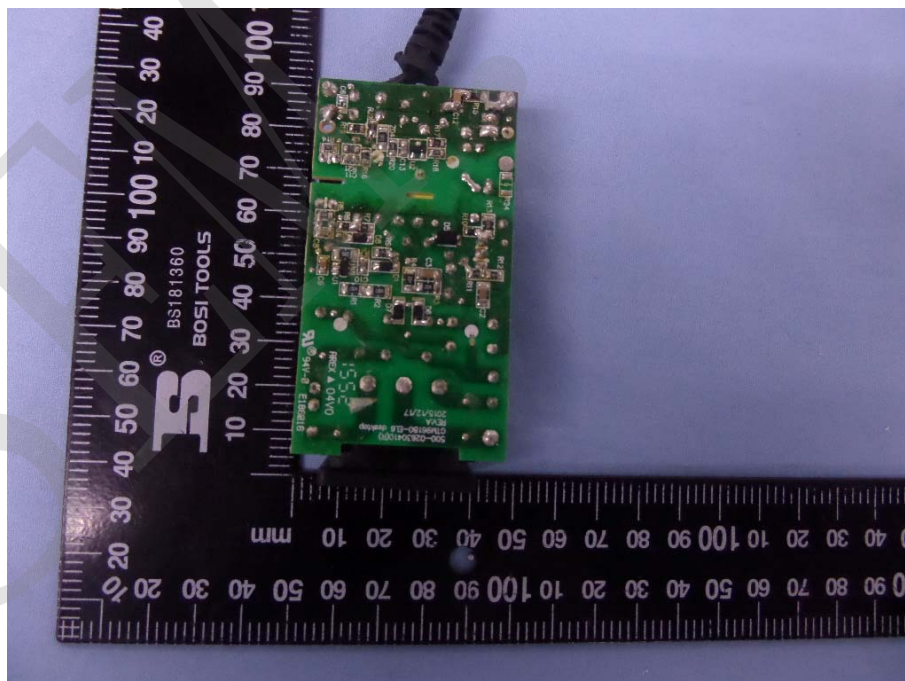
EUT View 1



EUT View 2



EUT View 3**EUT Housing and Board View 1**

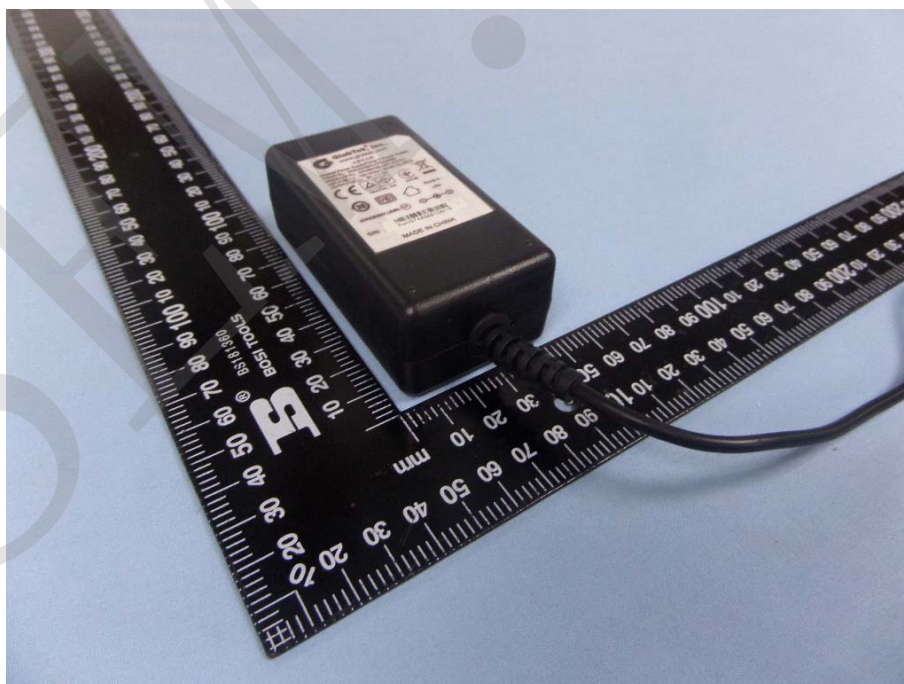
Solder Board-Component View 1**Solder Board-Component View 2**

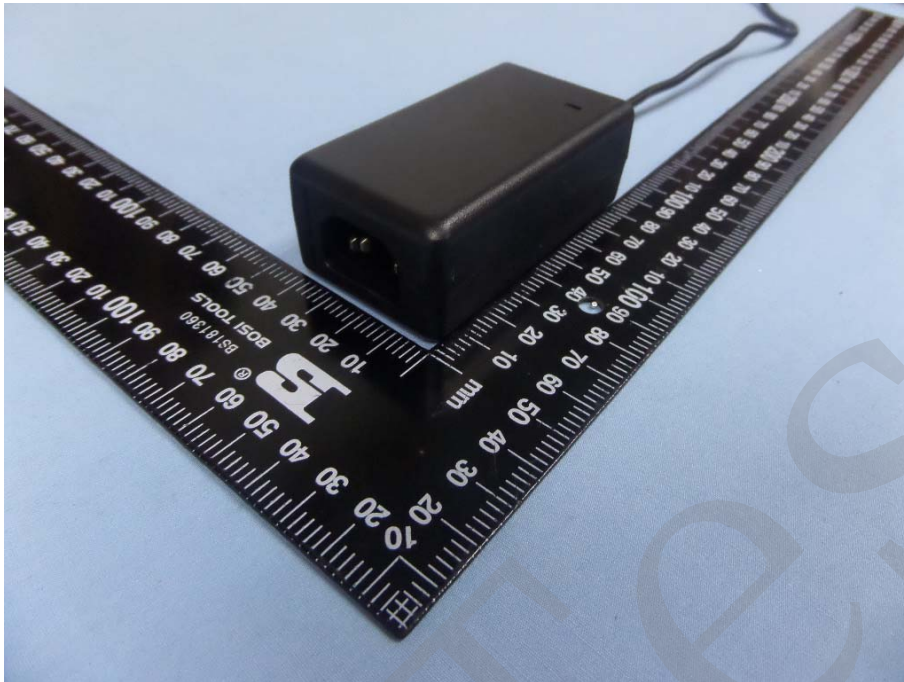
Test Model: GTM96180-1811-2.0-T3

EUT View 1



EUT View 2



EUT View 3**EUT Housing and Board View 1**

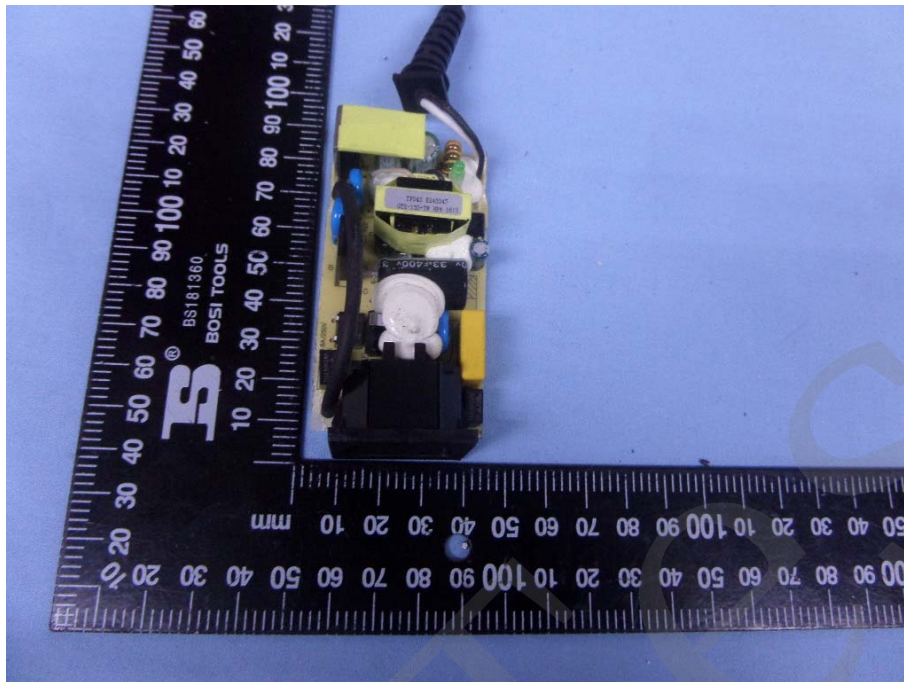
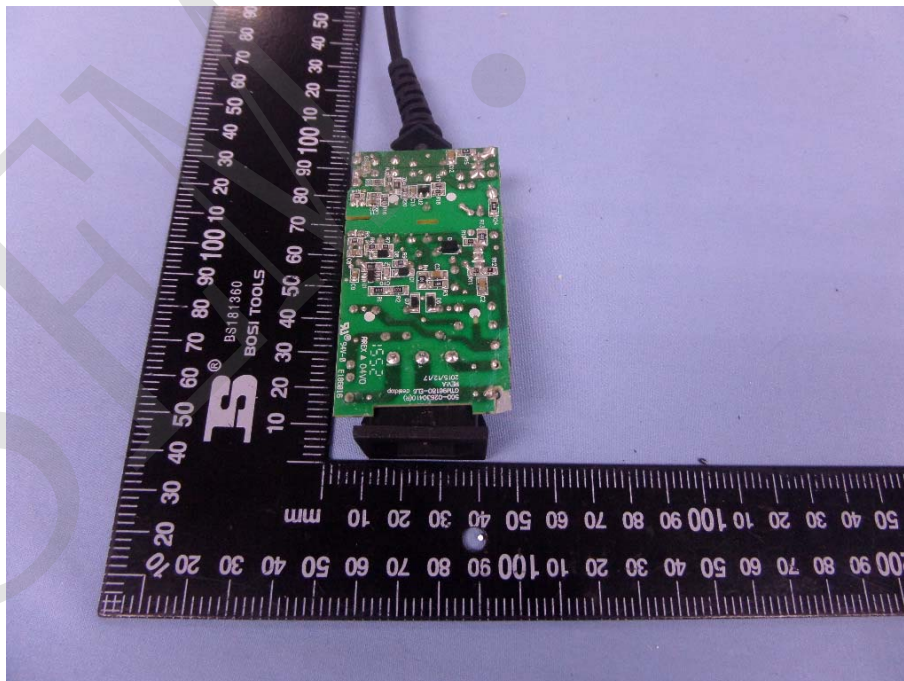
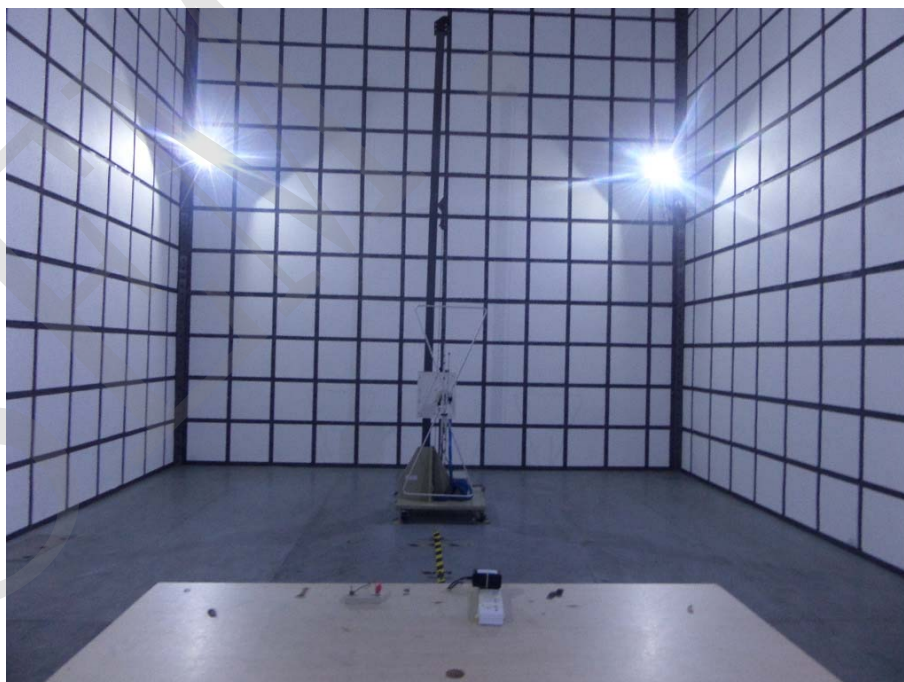
Solder Board-Component View 1**Solder Board-Component View 2**

EXHIBIT 3 - TEST SETUP PHOTOGRAPHS

Conduction Emission Test View



Radiation Emission Test View



***** END OF REPORT *****