

CFR 47 FCC Part 15.249 & RSS-210 Issue 8 TEST REPORT

Product : **M3 VIDEOSCOPE SYSTEM**

Trade Name : Mitcorp

Model Number : X1000

FCC ID : 2AA5F-X1000

Prepared for

Medical Intubation Technology Corp.

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Prepared by

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Remark :

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The test result in this report is only subjected to the test sample.

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Statement of Compliance

Applicant: Medical Intubation Technology Corp.

Manufacturer: Medical Intubation Technology Corp.

Product: M3 VIDEOSCOPE SYSTEM

Model No.: X1000

Tested Power Supply: 120Vac, 60Hz

Date of Final Test: Dec. 06, 2013

Revision of Report: Rev. 03

Configuration of Measurements and Standards Used :

FCC Rules and Regulations Part 15 Subpart C

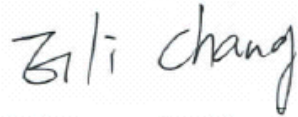
RSS-210 Issue 8

I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures given in ANSI C63.4, and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note: 1. The result of the testing report relate only to the item tested.

2. The testing report shall not be reproduced expect in full, without the written approval of IETC

Report Issued: 2014/02/06

Project Engineer: 

Elli Chang

Approved: 

Jerry Liu

1 General Information

1.1 Description of Equipment Under Test

Product	: M3 VIDEOSCOPE SYSTEM
Model Number	: X1000
Applicant	: Medical Intubation Technology Corp. 2F, No. 75, Wenhwa 1 st. Rd., Lohshan Vill., Kueishan, Taoyuan County 333, Taiwan
Manufacturer	: Medical Intubation Technology Corp. 2F, No. 75, Wenhwa 1 st. Rd., Lohshan Vill., Kueishan, Taoyuan County 333, Taiwan
Operating Frequency	: 2425.75MHz ~ 2475.75MHz
Channel Number	: Refer to section 1.2
Type of Modulation	: MSK
Antenna description	: This device uses Chip antenna, Antenna Gain: 4 dBi
Power Supply	: <u>Power Adapter:</u> Manufacture: Good Opportunity Electronic Co., Ltd. Model: GS018-050 Input: 100-240Vdc, 50/60Hz, 0.5A Output: DC 5V, 3A Power Cable: Non-shielded, Un-detachable, 1.5m, w/o core <u>Battery:</u> Manufacture: SANYO Battery Type: UR18650F Nominal Capacity: DC 3.7V / 2500mAh
Product Information	: <u>USB Cable:</u> Shielded, Detachable, 1m, w/o core <u>Video Cable:</u> Shielded, Detachable, 1.1m, w/o core
Date of Test	: Nov. 20 ~ Dec. 06, 2013
Additional Description	: 1.) The model " X1000 " is representative selected in the test and included in this report. 2.) For more detail specification about EUT, please refer to the user's manual.

1.2 Table for Carrier Frequencies

CH No.	1	2	3
CF (MHz)	2425.75	2450.75	2475.75

1.3 Test Facility

- Site Description** : ☑Conducted 1 ☑OATS 1 ☑RF Room
- Name of Firm** : Interocean EMC Technology Corp.
- Company web** : <http://www.ietc.com.tw>
- Location** : No. 5-2, Lin 1, Tin-Fu, Lin-Kou Dist., New Taipei City, Taiwan 244, R.O.C.
- Site Filing** :
- Federal Communication Commissions – USA
Registration No.: 96399 (OATS 1 & 2)
Registration No.: 518958 (OATS 3)
Designation No.: TW1020
 - Voluntary Control Council for Interference by Information Technology Equipment (VCCI) – Japan
Member No.: 1349
Registration No. (Conducted Room): C-1094
Registration No. (Conducted Room): T-1562
Registration No. (OATS 1): R-1040; G-274
Registration No. (OATS 2): R-1041
 - Industry Canada (IC)
OUR FILE: 46405-4437 Submission: 145171
Registration No. (OATS 1): Site# 4437A-1
Registration No. (OATS 2): Site# 4437A-2
Registration No. (OATS 3): Site# 4437A-3
- Site Accreditation** :
- Bureau of Standards and Metrology and Inspection (BSMI) – Taiwan, R.O.C.
Accreditation No.:
SL2-IN-E-0026 for CNS13438 / CISPR22
SL2-R1-E-0026 for CNS13439 / CISPR13
SL2-R2-E-0026 for CNS13439 / CISPR13
SL2-A1-E-0026 for CNS13783-1 / CISPR14-1
SL2-L1-E-0026 for CNS 14115 / CISPR 15
 - Taiwan Accreditation Foundation (TAF)
Accrditation No.: 1113
 - TÜV NORD
Certificate No: TNTW0801R-04



1.4 Test Equipment

Instrument	Manufacturer	Model	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSP40	100478	2014/05/26
Preamplifier	Agilent	8449B	3008A01434	2014/05/07
Preamplifier	Agilent	83050A	3950A00225	2014/09/08
Horn Antenna	COM-POWER	AH-118	10081	2014/05/30
Horn Antenna	Schwarzbeck	BBHA 9120	9120D-583	2014/05/12
Horn Antenna	Schwarzbeck	BBHA 9170	213	2014/07/24
Cable	HARBOUR	27478LL142	CBL22	2014/09/26
EMI Test Receiver	Rohde & Schwarz	ESVS10	826148/011	2014/11/04
Biconical Antenna	Schwarzbeck	BBA 9106	VHA 9103-2418	2014/03/27
Log Antenna	Schwarzbeck	UHALP 9108 A	0738	2014/03/27
Pre-Amplifier	Agilent	8447D	2944A09703	2014/04/30
RF Cable	PACIFIC	CBL41	CBL41	2014/11/15
RF Cable	Mini-Circuits	CBL-3FL-NMNM	CBL56	2014/08/30
RF Cable	Insulated Wire	CBL59	CBL59	2014/01/23
EMI Test Receiver	Rohde & Schwarz	ESCS 30	830245/027	2014/10/23
RF Cable	HARBOUR	RG58/U	CBL48	2014/07/29
L.I.S.N.	Schwarzbeck	NNLK8121	8121417	2014/08/23
L.I.S.N.	Schaffner	MN2050D	1598	2014/07/22

Note: The above equipments are within the valid calibration period.

1.5 Summary of Measurement

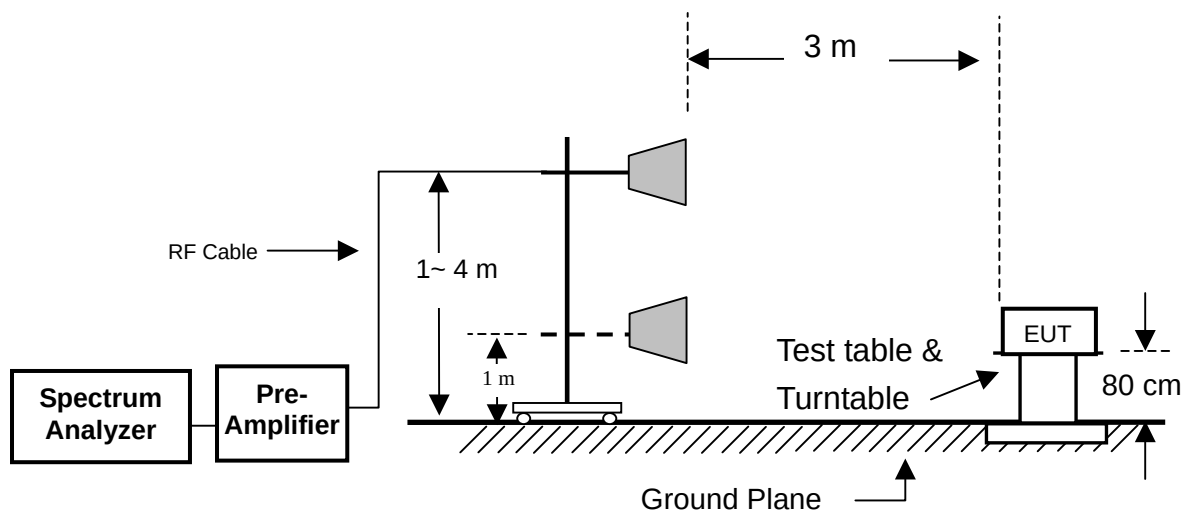
Report Clause	Test Parameter	Reference Document		Results
		FCC	IC	
2	Bandwidth test	FCC 15.215	RSS-Gen 4.3	Pass
3	RF Radiated spurious emission test	FCC 15.249(a)(c)(d)	RSS-Gen RSS-210 A 2.9	Pass
4	Emission on the Band Edge	FCC 15.249(d)	RSS-Gen RSS-210 A 2.9	Pass
5	AC Power Line Conducted Emission test	FCC 15.207	RSS-Gen RSS-210 A 2.9	Pass

2 Bandwidth test

2.1 Limit

According to FCC 15.215 and RSS-Gen 4.3 requirements, there was no regulation limit and for reference purpose.

2.2 Configuration of Measurement



2.3 Test Procedure

20dB bandwidth:

The resolutions bandwidth set at 100 kHz, the video bandwidth $\geq$ RBW, and the SPAN may equal to approximately 2 to 3 time the 20dB bandwidth.

Occupied bandwidth:

The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth.

2.4 Test Result

PASS.

The final test data is shown as following pages.

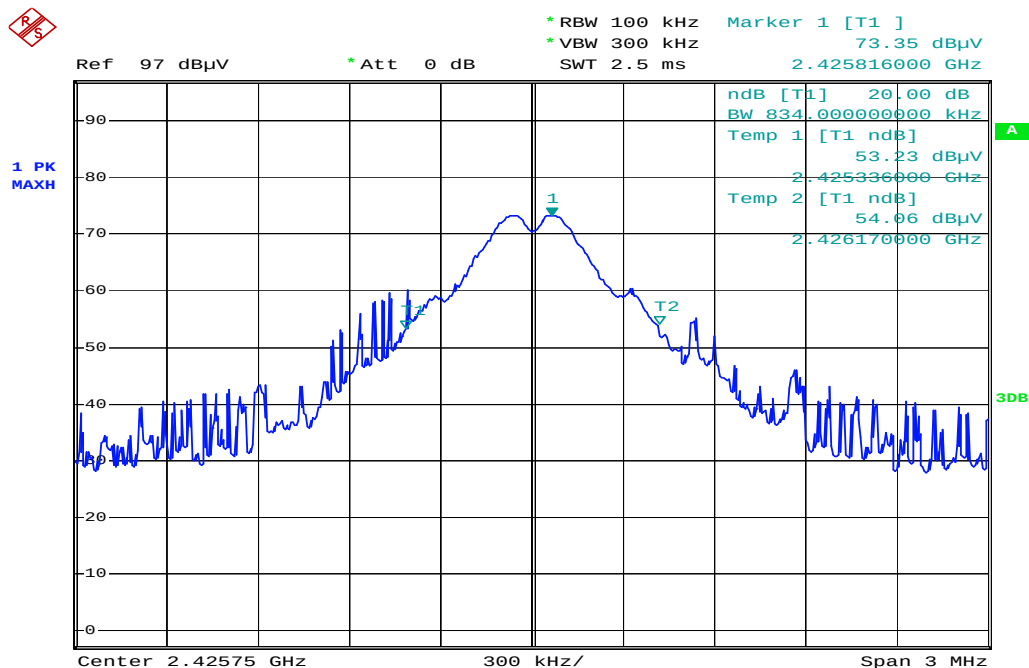
For FCC

Test CH		20dB Bandwidth (kHz)
Modulation	Frq. (MHz)	
MSK	2425.75	834.00
	2450.75	948.00
	2475.75	858.00

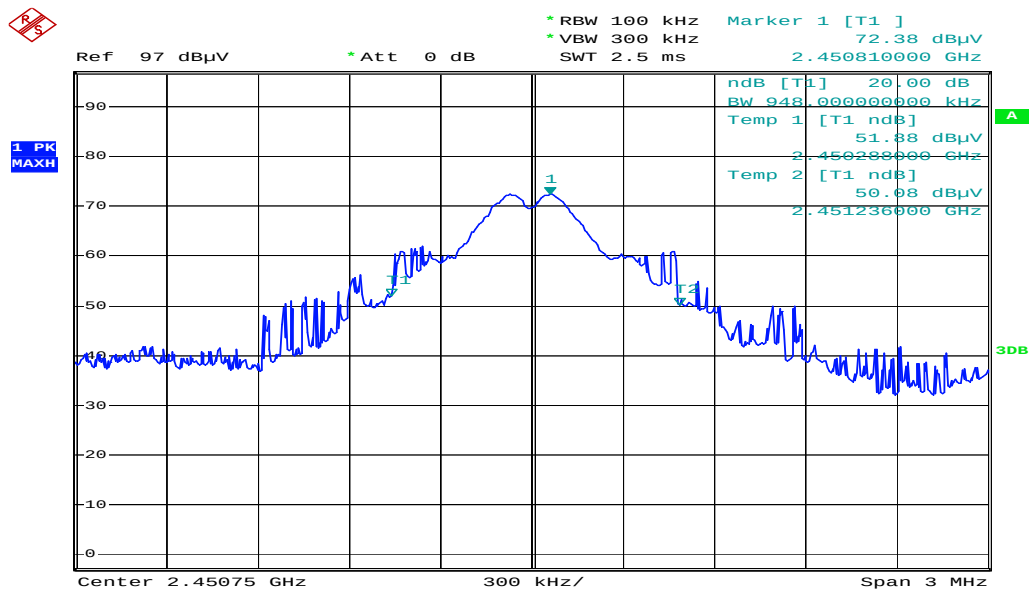
For IC

Test CH		99% Occupied Bandwidth (kHz)
Modulation	Frq. (MHz)	
MSK	2425.75	774.00
	2450.75	894.00
	2475.75	840.00

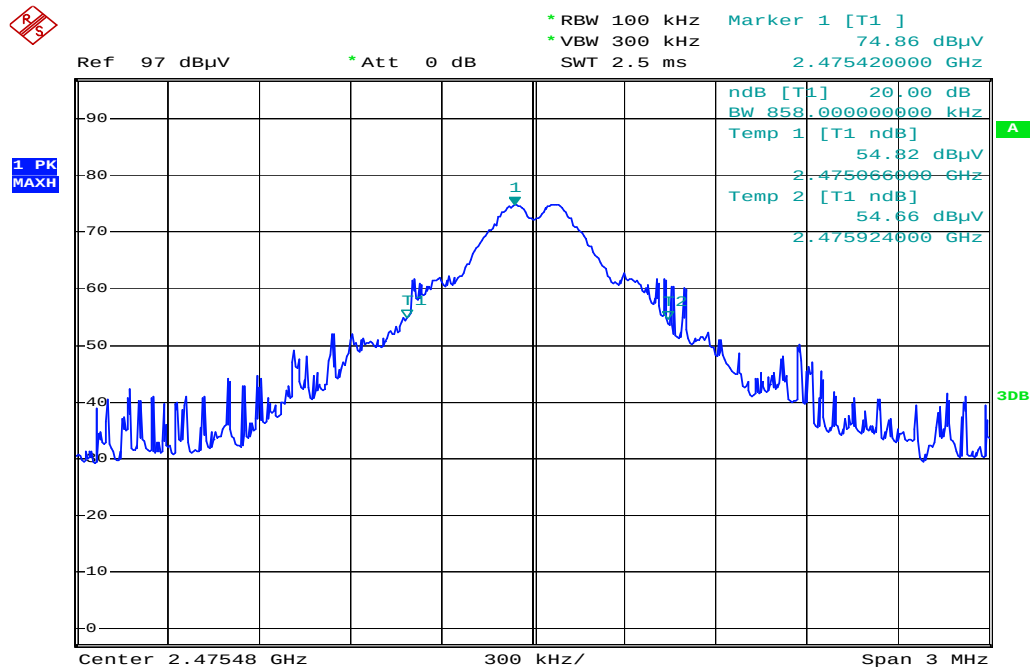
2425.75MHz 20dB Bandwidth



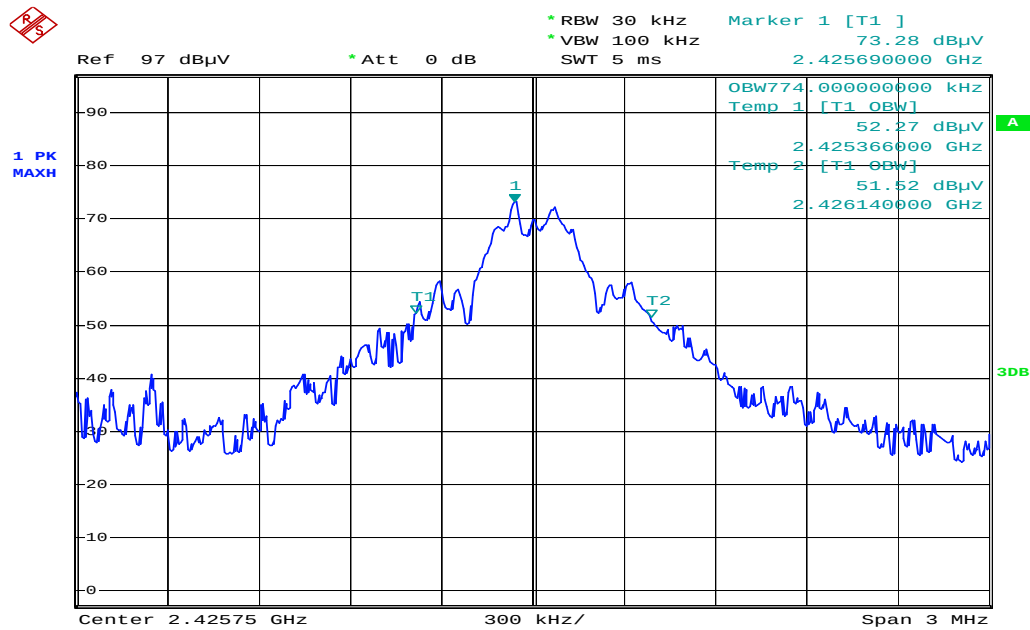
2450.75MHz 20dB Bandwidth



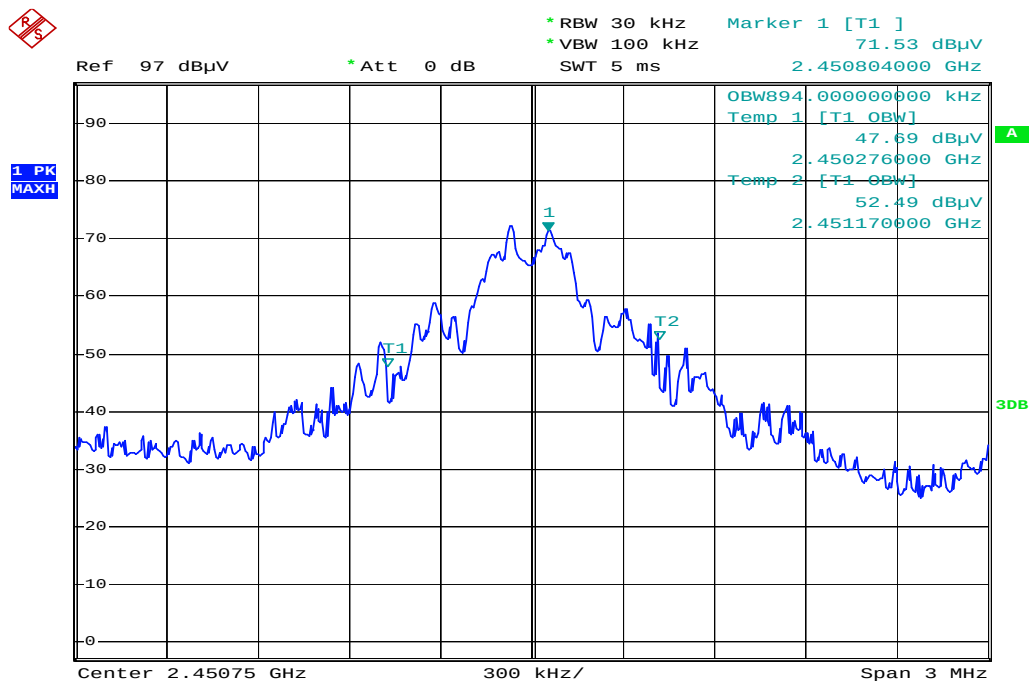
2475.75MHz 20dB Bandwidth



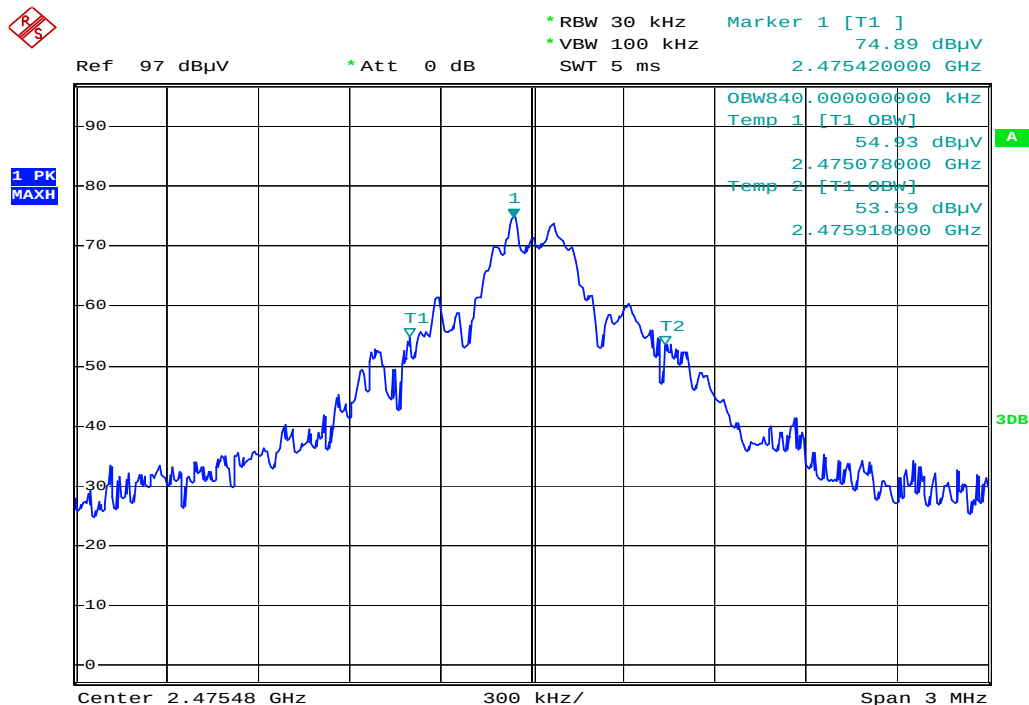
2425.75MHz Occupied Bandwidth



2450.75MHz Occupied Bandwidth



2475.75MHz Occupied Bandwidth



3 RF Radiated spurious emission test

3.1 Limit

According to FCC15.249 (a) & IC RSS-210 A2.9, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

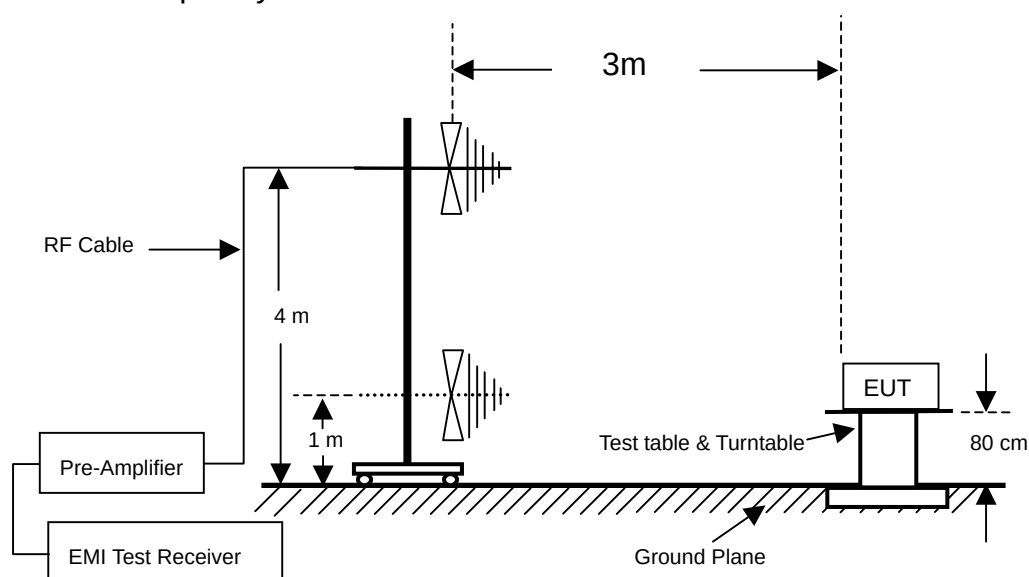
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

For intentional radiator, the radiated emission shall comply with §15.209(a).

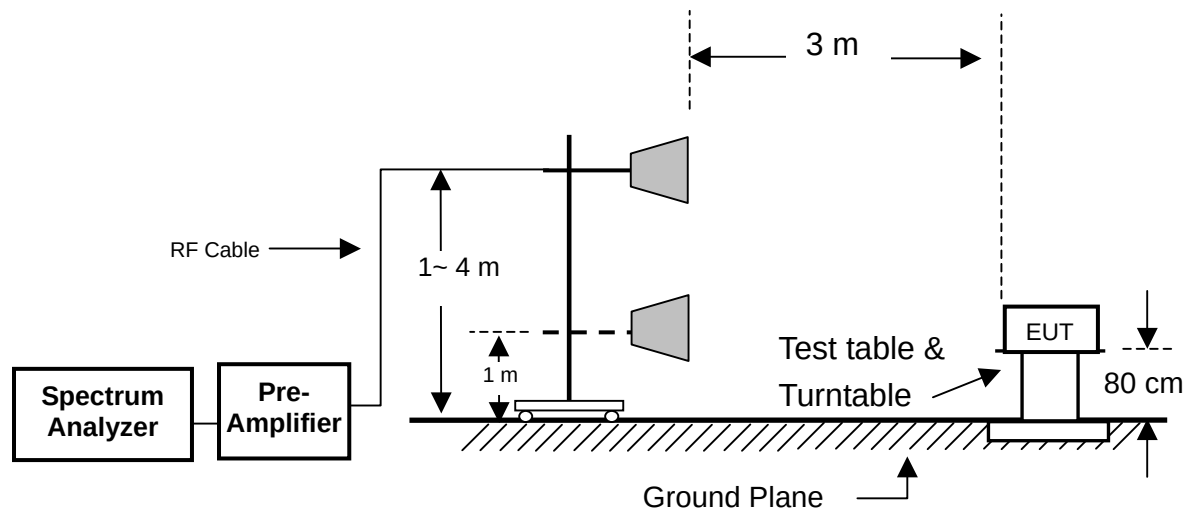
Frequency (MHz)	Field strength dB(μ V/m)	Measurement distance (meters)
1.705~30.0	29.5	30
30 ~ 88	40	3
88~216	43.5	3
216~960	46	3
Above 960	54	3

3.2 Configuration of Measurement

Measurement Frequency under 1GHz



Measurement Frequency above 1GHz



3.3 Test Procedure

The EUT was setup to ANSI C63.4, 2003.

Radiated emission measurements were performed from 30MHz to 25GHz. Spectrum Analyzer set as below: For frequency range from 30MHz to 1GHz: RBW=100kHz or greater. For frequencies above 1GHz: set RBW=VBW=1MHz for peak detector and RBW=1MHz, VBW=10Hz for average detector.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meter and down to 1 meter.

3.4 The description of operation mode

Setup EUT to continuously transmit signal with 100% duty cycle during the test period.

3.5 Test Result

PASS.

The final test data is shown on as following pages.

Radiated spurious emission

Fundamental Emissions

Low Channel								
Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
2425.75	H	66.22	0.00	31.52	97.74	114	-16.26	PK
2425.75	H	41.56	0.00	31.52	73.08	94	-20.92	AV
2425.75	V	57.90	0.00	31.52	89.42	94	-4.58	PK

Middle Channel								
Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
2450.75	H	63.22	0.00	31.60	94.82	114	-19.18	PK
2450.75	H	41.10	0.00	31.60	72.70	94	-21.30	AV
2450.75	V	55.21	0.00	31.60	86.81	94	-7.19	PK

High Channel								
Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
2475.75	H	63.77	0.00	31.68	95.45	114	-18.55	PK
2475.75	H	41.20	0.00	31.68	72.88	94	-21.12	AV
2475.75	V	56.90	0.00	31.68	88.58	94	-5.42	PK

Remark :

1. Corrected Level = Reading – Preamp + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

Radiated spurious emission

Test Environment

Ambient temperature : 23.5°C

Relative humidity : 47%

Radiated Emission below 1GHz

After verifying low, middle and high channel (2425.75MHz, 2450.75MHz and 2475.75MHz), the worse case was found at Low channel, the data will present on report.

Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
202.800	H	48.62	29.92	19.72	38.42	43.52	-5.10	QP
270.620	H	49.41	30.08	21.95	41.28	46.02	-4.74	QP
355.200	H	44.10	29.40	19.01	33.71	46.02	-12.31	QP
621.000	H	39.85	29.10	25.19	35.94	46.02	-10.08	QP
648.000	H	40.20	29.01	25.52	36.71	46.02	-9.31	QP
972.000	H	38.96	29.42	30.80	40.34	54.00	-13.66	QP
270.620	V	49.90	30.08	22.06	41.88	46.02	-4.14	QP
336.000	V	42.95	29.62	18.28	31.61	46.02	-14.41	QP
480.000	V	40.32	29.32	22.07	33.07	46.02	-12.95	QP
620.990	V	43.21	29.10	24.91	39.02	46.02	-7.00	QP
648.000	V	40.12	29.01	25.30	36.41	46.02	-9.61	QP
972.000	V	41.53	29.42	30.20	42.31	54.00	-11.69	QP

Remark:

Corrected Level = Reading + Correction Factor – Preamp

Correction Factor = Antenna Factor + Cable Loss

Radiated spurious emission

Radiated Emission above 1GHz

Low Channel								
Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
4851.50	H	53.92	27.44	37.77	64.25	74	-9.75	PK
4851.50	H	41.50	27.44	37.77	51.83	54	-2.17	AV
7277.25	H	34.10	26.90	44.51	51.71	54	-2.29	PK
*9703.00	H	31.00	26.33	47.92	52.59	54	-1.41	PK
4851.50	V	54.46	27.44	37.77	64.79	74	-9.21	PK
4851.50	V	42.65	27.44	37.77	52.98	54	-1.02	AV
7277.25	V	33.72	26.90	44.51	51.33	54	-2.67	PK
*9703.00	V	31.10	26.33	47.92	52.69	54	-1.31	PK
Middle Channel								
Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
4901.50	H	54.15	27.46	37.90	64.59	74	-9.41	PK
4901.50	H	40.05	27.46	37.90	50.49	54	-3.51	AV
7352.25	H	34.46	26.91	44.90	52.45	54	-1.55	PK
*9803.00	H	30.85	26.32	48.23	52.76	54	-1.24	PK
4901.50	V	54.59	27.46	37.90	65.03	74	-8.97	PK
4901.50	V	42.36	27.46	37.90	52.80	54	-1.20	AV
7352.25	V	34.91	26.91	44.90	52.90	54	-1.10	PK
*9803.00	V	30.85	26.32	48.23	52.76	54	-1.24	PK
High Channel								
Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
4951.50	H	53.15	27.48	38.03	63.70	74	-10.30	PK
4951.50	H	38.50	27.48	38.03	49.05	54	-4.95	AV
7427.25	H	34.42	26.92	45.30	52.80	54	-1.20	PK
*9903.00	H	30.72	26.31	48.54	52.95	54	-1.05	PK
4951.50	V	52.81	27.48	38.03	63.36	74	-10.64	PK
4951.50	V	40.20	27.48	38.03	50.75	54	-3.25	AV
7427.25	V	33.62	26.92	45.30	52.00	54	-2.00	PK
*9903.00	V	30.75	26.31	48.54	52.98	54	-1.02	PK

Remark : Corrected Level = Reading + Correction Factor – Preamp

Correction Factor = Antenna Factor + Cable Loss

* Mark indicated background noise level.

Receiver spurious emission

Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
201.750	H	41.59	29.91	19.67	31.35	43.52	-12.17	QP
270.600	H	42.29	30.08	21.95	34.16	46.02	-11.86	QP
355.200	H	43.12	29.40	19.01	32.73	46.02	-13.29	QP
648.000	H	35.86	29.01	25.52	32.37	46.02	-13.65	QP
833.200	H	32.32	29.13	28.72	31.91	46.02	-14.11	QP
972.000	H	35.40	29.42	30.80	36.78	54.00	-17.22	QP
81.230	V	44.95	30.52	8.85	23.28	40.00	-16.72	QP
270.600	V	42.20	30.08	22.06	34.18	46.02	-11.84	QP
455.200	V	36.98	29.48	21.64	29.14	46.02	-16.88	QP
621.000	V	35.96	29.10	24.91	31.77	46.02	-14.25	QP
648.000	V	36.29	29.01	25.30	32.58	46.02	-13.44	QP
972.000	V	34.92	29.42	30.20	35.70	54.00	-18.30	QP

Remark:

Corrected Level = Reading + Correction Factor – Preamp

Correction Factor = Antenna Factor + Cable Loss

Frequency	Antenna	Reading	Preamp	Correction Factor	Corrected Level	Limits	Margin	Det
(MHz)	Polarization	(dBuV)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Mode
2458.00	H	35.93	27.83	31.62	39.72	54.00	-14.28	PK
*4950.00	H	34.33	27.48	38.03	44.88	54.00	-9.12	PK
2458.00	V	37.91	27.83	31.62	41.70	54.00	-12.30	PK
*4950.00	V	34.26	27.48	38.03	44.81	54.00	-9.19	PK

Remark : Corrected Level = Reading + Correction Factor – Preamp

Correction Factor = Antenna Factor + Cable Loss

* Mark indicated background noise level.

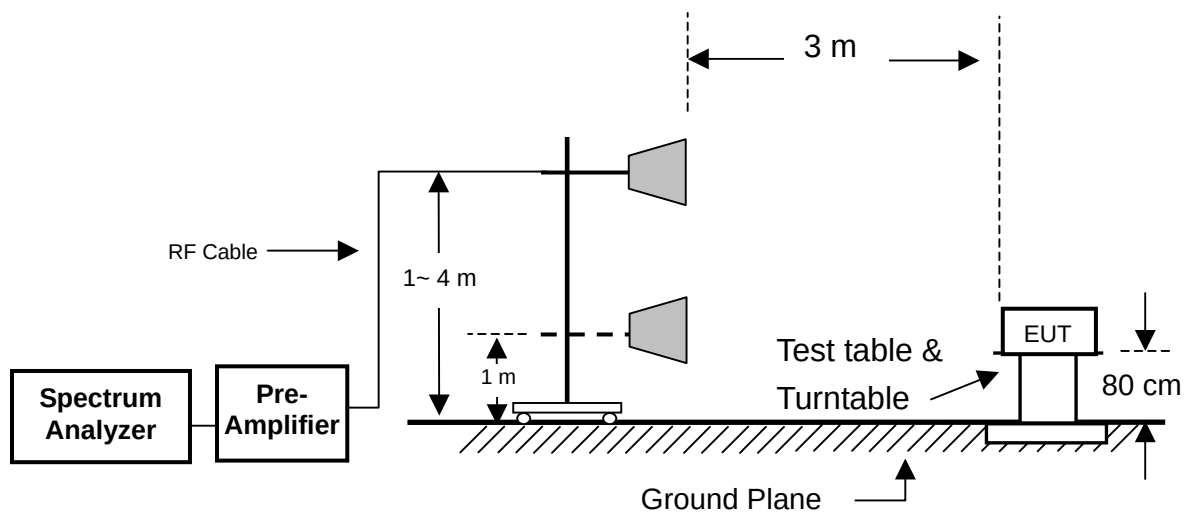
4 Emission on the Band Edge test

4.1 Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in FCC 15.209 & IC RSS-210 A2.9, whichever is the lesser attenuation.

4.2 Configuration of Measurement

Measurement Frequency above 1GHz



4.3 Test Procedure

The EUT was setup to ANSI C63.4, 2003.

Set RBW =1M, VBW= RBW for peak, and VBW=10Hz for average.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meter and down to 1 meter.

4.4 Test Result

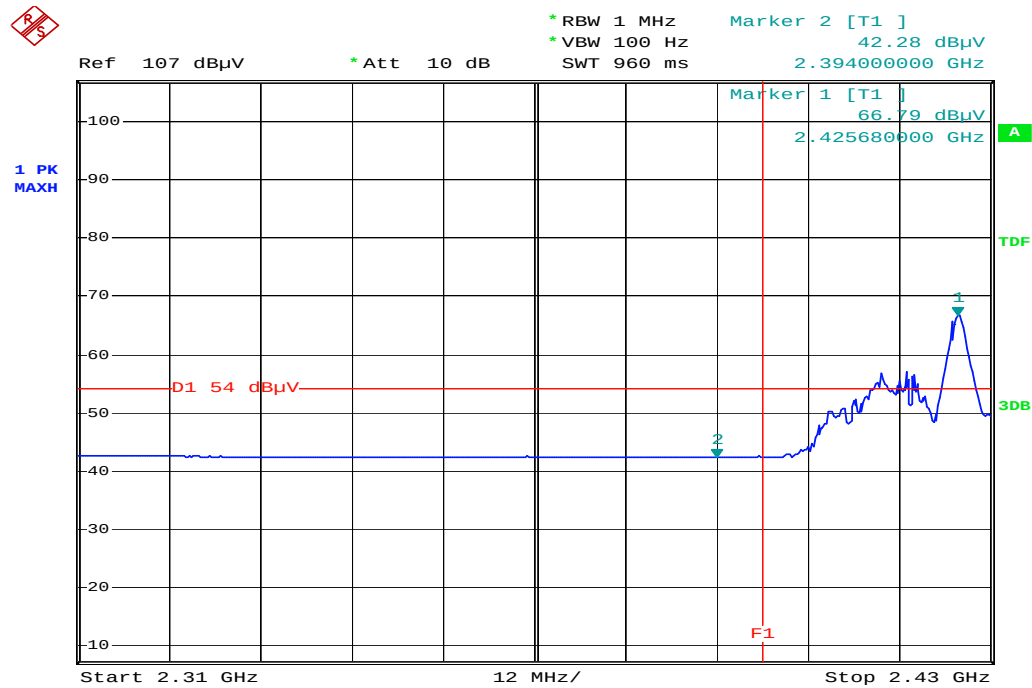
PASS.

The final test data is shown on as following pages.

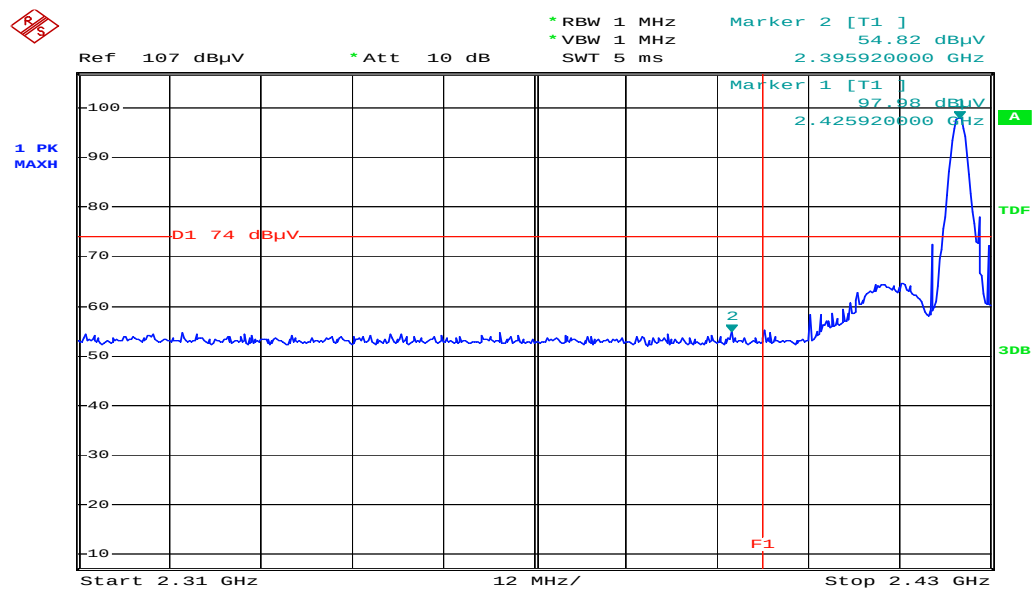
Band edge

Frequency (MHz)	Restrict Freq. Band (MHz)	Maximum level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det Mode
2425.75	2310~2400	54.82	74	-19.18	PK
2425.75	2310~2400	42.28	54	-11.72	AV
2475.75	2483.5~2500	63.17	74	-10.83	PK
2475.75	2483.5~2500	40.74	54	-13.26	AV

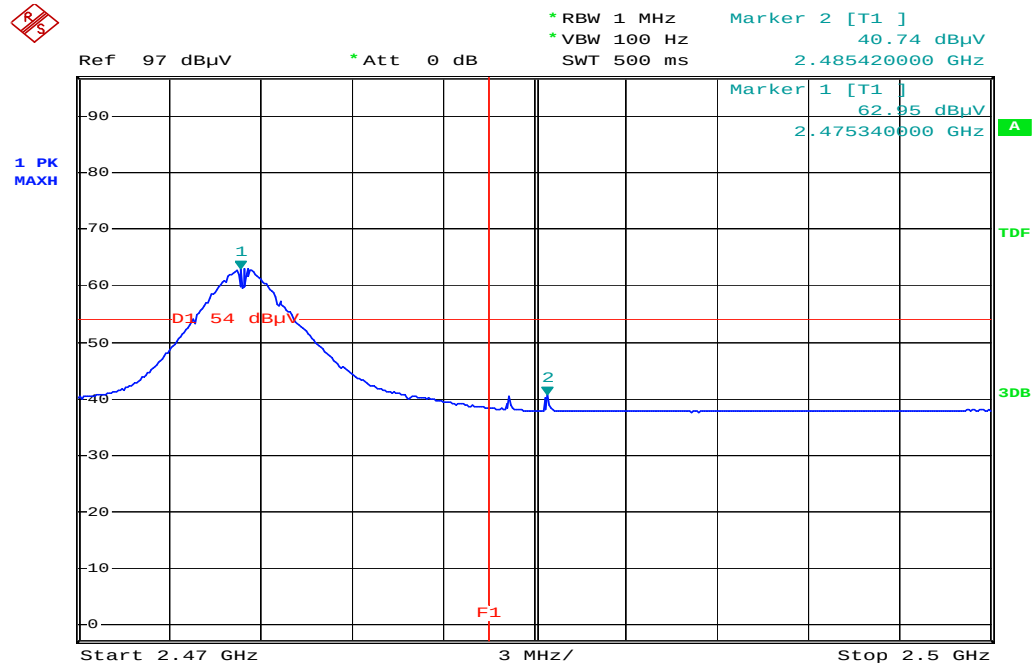
2425.75MHz-AV



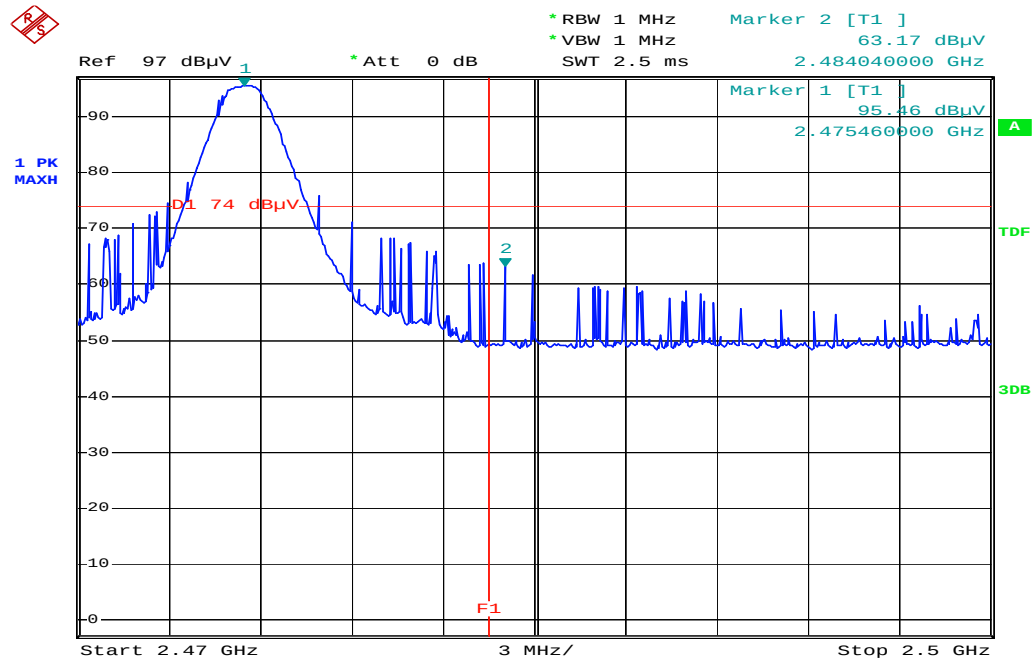
2425.75MHz-PK



2475.75MHz-AH



2475.75MHz-PK-H



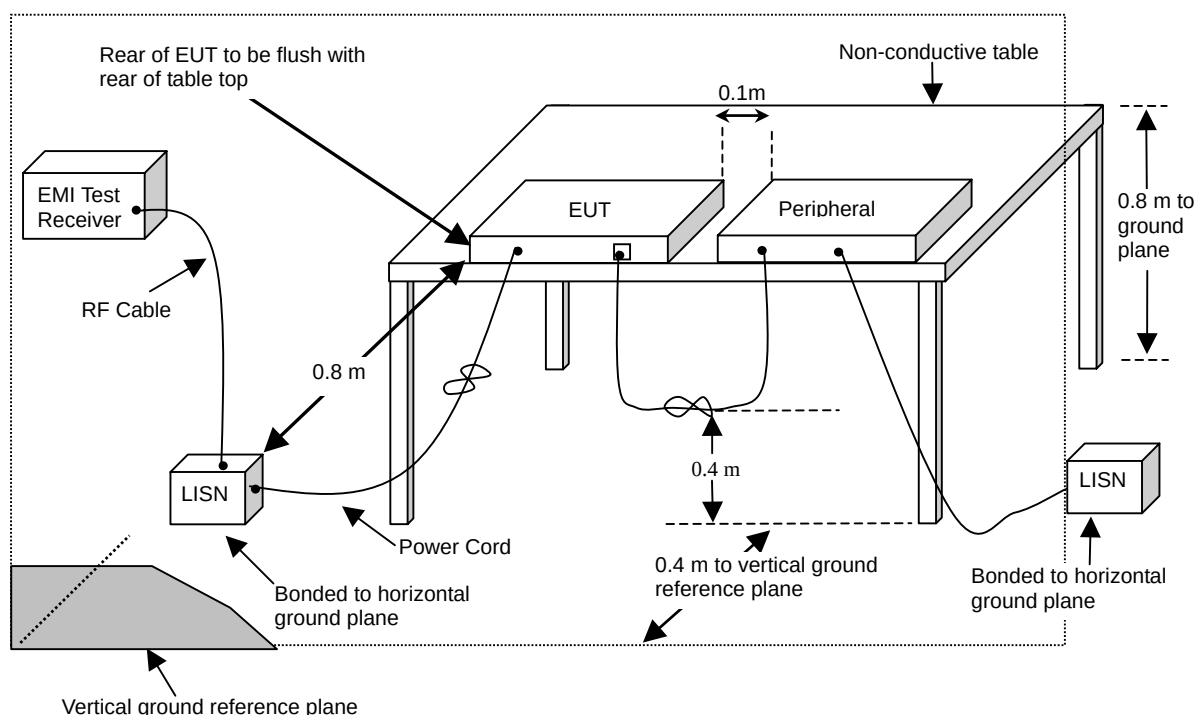
5 AC Power Line Conducted Emission test

5.1 Limits

Frequency (MHz)	Quasi-Peak (dB μ V)	Average (dB μ V)
0.15 to 0.5	66 to 56	56 to 46
> 0.5 to 5	56	46
> 5 to 30	60	50

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 30 MHz.

5.2 Configuration of Measurement



5.3 Test Procedures

- 1.) The EUT was placed 80cm height above ground on a non-conductive table and vertical conducting plane located 40cm to the rear of the EUT.
- 2.) The EUT was connected to the main power through Line Impedance Stabilization Networks (LISN). This setup provided a 50ohm/50mH coupling impedance for the measuring equipment. The auxiliary equipment will place in secondary LISN.
- 3.) Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/2003 on conducted measurement.

5.4 Test Result

PASS.

The final test data is shown as following pages.

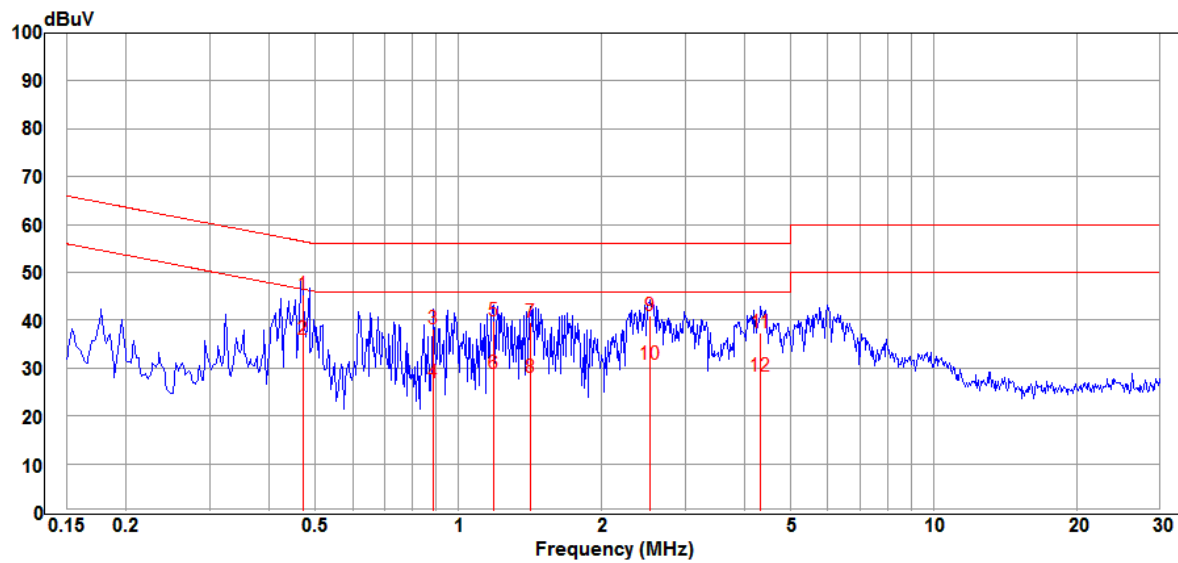
Power Line Conducted Test Data

CLIENT: Medical Intubation Technology Corp.
EUT: M3 VIDEOSCOPE SYSTEM
MODEL: X1000
RATING: 120Vac/60Hz
COMMENT: Charger Mode

OPERATOR: Elli
TEST SITE: Conducted 1
POLARIZATION: Line
TEMP/HUM: 26.3°C / 60%

Data:10 J:\E3_28\2013\Medical.EM8

2013-11-22



Item Mark	Freq. MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Remark
1	0.471	44.92	0.41	45.33	56.49	-11.16	QP
2	0.471	35.61	0.41	36.02	46.49	-10.47	Average
3	0.890	37.75	0.38	38.13	56.00	-17.87	QP
4	0.890	26.53	0.38	26.91	46.00	-19.09	Average
5	1.191	39.35	0.38	39.73	56.00	-16.27	QP
6	1.191	28.35	0.38	28.73	46.00	-17.27	Average
7	1.418	39.12	0.39	39.51	56.00	-16.49	QP
8	1.418	27.60	0.39	27.99	46.00	-18.01	Average
9	2.540	40.47	0.42	40.89	56.00	-15.11	QP
10	2.540	30.45	0.42	30.87	46.00	-15.13	Average
11	4.338	36.98	0.52	37.50	56.00	-18.50	QP
12	4.338	27.65	0.52	28.17	46.00	-17.83	Average

Power Line Conducted Test Data

CLIENT: Medical Intubation Technology Corp.

OPERATOR: Elli

EUT: M3 VIDEOSCOPE SYSTEM

TEST SITE: Conducted 1

MODEL: X1000

POLARIZATION: Neutral

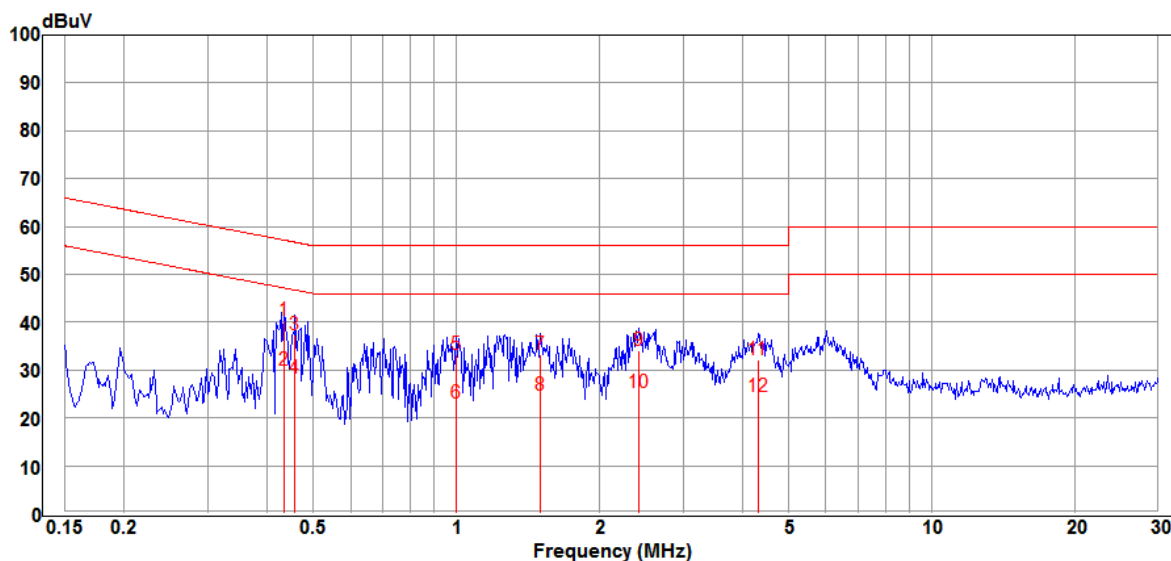
RATING: 120Vac/60Hz

TEMP/HUM: 26.3°C / 60%

COMMENT: Charger Mode

Data:11 J:\E3_28\2013\Medical.EM8

2013-11-22



Item Mark	Freq. MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Remark
1	0.435	40.00	0.48	40.48	57.15	-16.67	QP
2	0.435	29.35	0.48	29.83	47.15	-17.32	Average
3	0.459	36.86	0.48	37.34	56.71	-19.37	QP
4	0.459	27.79	0.48	28.27	46.71	-18.44	Average
5	1.000	32.76	0.45	33.21	56.00	-22.79	QP
6	1.000	22.58	0.45	23.03	46.00	-22.97	Average
7	1.503	32.89	0.46	33.35	56.00	-22.65	QP
8	1.503	24.19	0.46	24.65	46.00	-21.35	Average
9	2.422	33.71	0.49	34.20	56.00	-21.80	QP
10	2.422	24.91	0.49	25.40	46.00	-20.60	Average
11	4.315	31.55	0.59	32.14	56.00	-23.86	QP
12	4.315	23.90	0.59	24.49	46.00	-21.51	Average