TEST REPORT

Reference No.	:	WTS15S0831719E
FCC ID	:	V2V-NFT1N
Applicant	:	LigoWave LLC
Address	:	138 Mountain Brook Dr Canton, GA 30115 United States
Manufacturer	:	The same as above
Address	:	The same as above
Product Name	:	Broadband Digital Transmission System
Model No.	:	NFT 1N, NFT 1N AF
Standards	:	FCC PART15 SUBPART B: 2014
Date of Receipt sample	:	Aug. 11, 2015
Date of Test	:	Aug. 12, 2015 ~ Oct. 08, 2015
Date of Issue	:	Oct. 12, 2015
Test Result	:	**Pass**

Remarks:
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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Compiled by:

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Philo Zhong / Manager

1 Test Summary

Test Item	Test Requirement	Class	Test Method	Test Result
Power Line Conducted Emission (150kHz to 30MHz)	FCC PART 15, SUBPART B: 2014	Class B	ANSI C63.4: 2009	Pass
Radiated Emission 30MHz to 1GHz)	FCC PART 15, SUBPART B: 2014	Class B	ANSI C63.4: 2009	Pass
Radiated Emission (Above 1GHz)	FCC PART 15, SUBPART B: 2014	Class B	ANSI C63.4: 2009	Pass

Remark:

Pass	Test item meets the requirement
Fail	Test item does not meet the requirement
N/A	Test case does not apply to the test object

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3 General Information

3.1 General Description of E.U.T.

Product Name:	Broadband Digital Transmission System
Model No.:	NFT 1N, NFT 1N AF
Model Description:	Only the Power management circuits and the power supply voltage are different.

3.2 Details of E.U.T.

Technical Data:

Adapter 1:	Manufacturer: AOYUAN Model No.: AY012E-ZF243 Output: DC 24V 0.5A Input: 100-240V, 50/60Hz, 0.5A
Adapter 2:	Manufacturer: Great Model No.: GRT-240050 Output: DC 24V 0.5A Input: 100-240V, 50/60Hz, 0.5A Two adapter for NFN 1N The NFT 1N AF Sale without adapter
Secondary Adapter:	Manufacturer: LEOLINK Model No.: LEF1015 Output: DC 48V 0.5A Input: 100-240V, 50/60Hz, 0.5A

3.3 Standards Applicable for Testing

The tests were performed according to following standards:

FCC PART 15, SUBPART B: Electronic Code of Federal Regulations- Unintentional Radiators. 2014

3.4 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A-1**
  Waltek Services (Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A-1, October 15, 2015.

- **FCC Test Site 1#– Registration No.: 880581**
  Waltek Services(Shenzhen) 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. Registration 880581, April 29, 2014.

- **FCC Test Site 2#– Registration No.: 328995**
  Waltek Services(Shenzhen) 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. Registration 328995, December 3, 2014.

3.5 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

3.6 Abnormalities from Standard Conditions

None.

3.7 Test Mode Description

Conducted Emissions	
TM1*	Data transmission+Adapter+Printer
Radiated Emissions	
TM1*	Data transmission+Adapter+Printer
Voltage Fluctuations and Flicker	
TM1*	Data transmission+Adapter+Printer
Electrostatic Discharge(ESD)	
TM1*	Data transmission+Adapter+Printer
Radiated Immunity(R/S)	
TM1*	Data transmission+Adapter+Printer
Electrical Fast Transients (EFT)	
TM1*	Data transmission+Adapter+Printer
Surge Immunity	
TM1*	Data transmission+Adapter+Printer
Voltage Dips and Interruptions	

TM1*	Data transmission+Adapter+Printer
Conducted Immunity(C/S)	
TM1*	Data transmission+Adapter+Printer
“*” shows the worst case mode which were recorded in this report.	

4 Equipment Used during Test

4.1 Equipment List

Conducted Emissions Test Site 1#						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Last Calibration Date**	**Calibration Due Date**
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.14,2015	Sep.13,2016
2.	LISN	R&S	ENV216	101215	Sep.14,2015	Sep.13,2016
3.	Cable	Top	TYPE16(3.5M)	-	Sep.14,2015	Sep.13,2016
Conducted Emissions Test Site 2#						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Last Calibration Date**	**Calibration Due Date**
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.14,2015	Sep.13,2016
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.14,2015	Sep.13,2016
3.	Limiter	York	MTS-IMP-136	261115-001-0024	Sep.14,2015	Sep.13,2016
4.	Cable	LARGE	RF300	-	Sep.14,2015	Sep.13,2016
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Last Calibration Date**	**Calibration Due Date**
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.14,2015	Sep.13,2016
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.14,2015	Sep.13,2016
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.19,2015	Apr.18,2016
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.14,2015	Sep.13,2016
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2015	Apr.18,2016
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2015	Apr.18,2016
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2015	Mar.16,2016
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.10,2015	Apr.09,2016
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No**	**Last Calibration Date**	**Calibration Due Date**
1	Test Receiver	R&S	ESCI	101296	Sep.14,2015	Sep.13,2016
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Sep.14,2015	Sep.13,2016
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Sep.14,2015	Sep.13,2016

4	Cable	HUBER+SUHNER	CBL2	525178	Sep.14,2015	Sep.13,2016
RF Conducted Testing						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Last Calibration Date**	**Calibration Due Date**
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Sep.14,2015	Sep.13,2016
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	Sep.14,2015	Sep.13,2016
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	Sep.14,2015	Sep.13,2016

4.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

4.3 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±3.64dB	(1)
Radiation Emission	30MHz~1000MHz	±5.03dB	(1)
	1GHz~6GHz	±5.47dB	(1)

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5 Emission Test Results

5.1 Power Line Conducted Emission, 150kHz to 30MHz

Test Requirement ..... : FCC PART 15, SUBPART B

Test Method ..... : ANSI C63.4

Test Result ..... : Pass

Frequency Range ..... : 150kHz to 30MHz

Class ..... : Class B

Limit ..... :

Frequency (MHz)	Limit (dBμ	
	Quasi-peak	Average
0.15 to 0.5	66 to 6*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

5.1.1 E.U.T. Operation

Operating Environment:

Temperature ..... : 23°C

Humidity ..... : 53.6%RH

Atmospheric Pressure..... : 101kPa

EUT Operation:

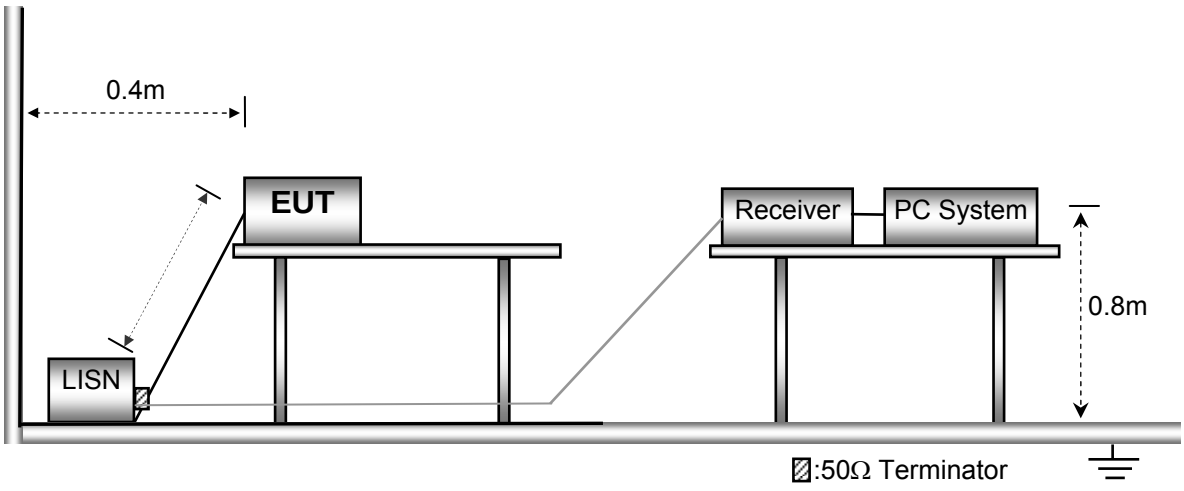
Input Voltage..... : AC 120V/60Hz

Operating Mode ..... : Transmitting

Remark ..... : The worst case is Transmitting mode and the data is shown as follow.

5.1.2 Block Diagram of Test Setup

The Mains Terminals Disturbance Voltage tests were performed in accordance with the ANSI C63.4 .

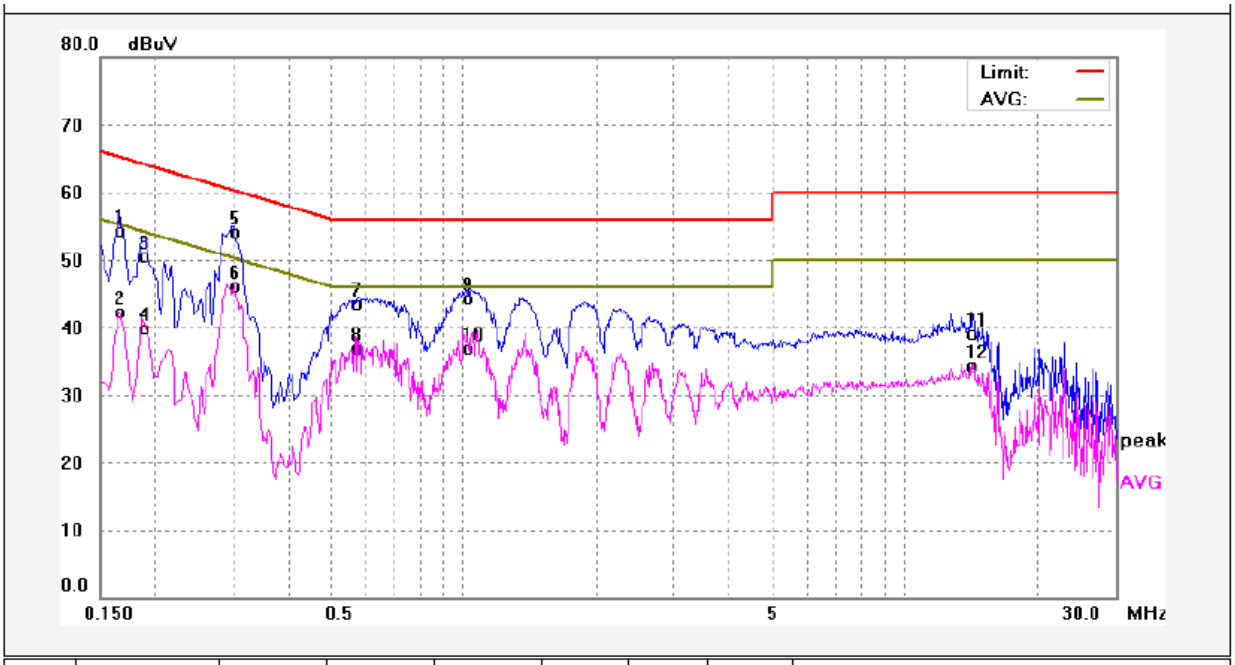


5.1.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line. According to the data in section 5.1.4, the EUT complied with the FCC PART 15, SUBPART B standards.

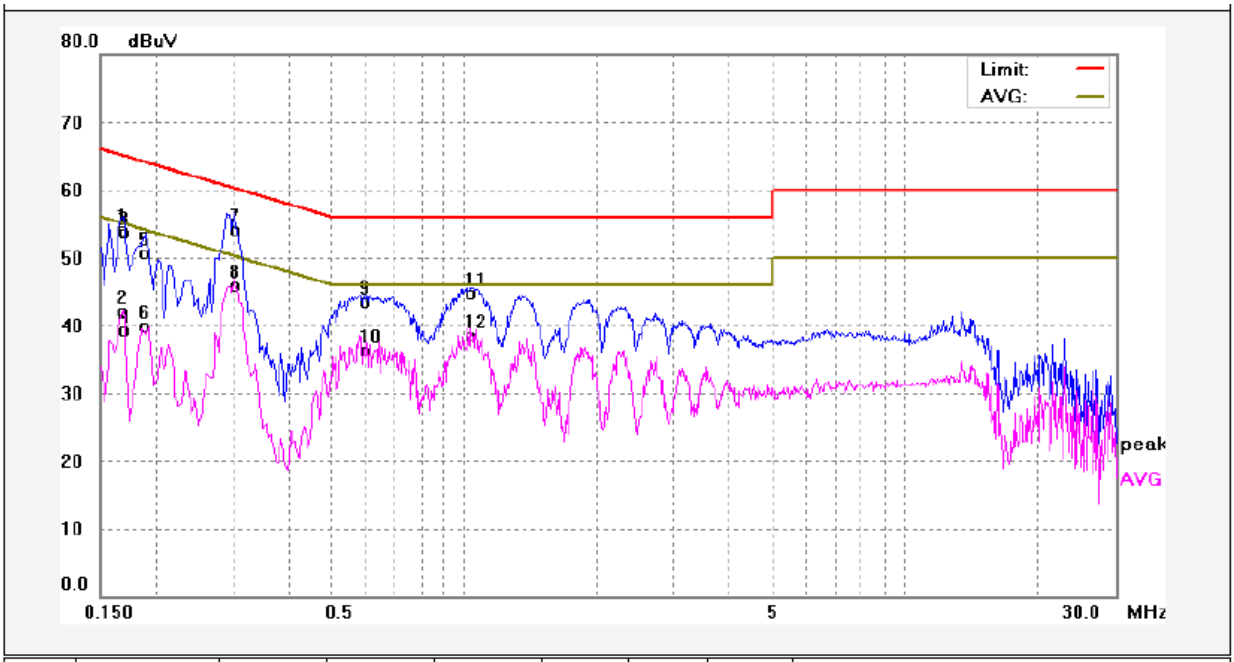
5.1.4 Power Line Conducted Emission Test Data

Model: NFT 1N (AY012E-ZF243)
Live Line:



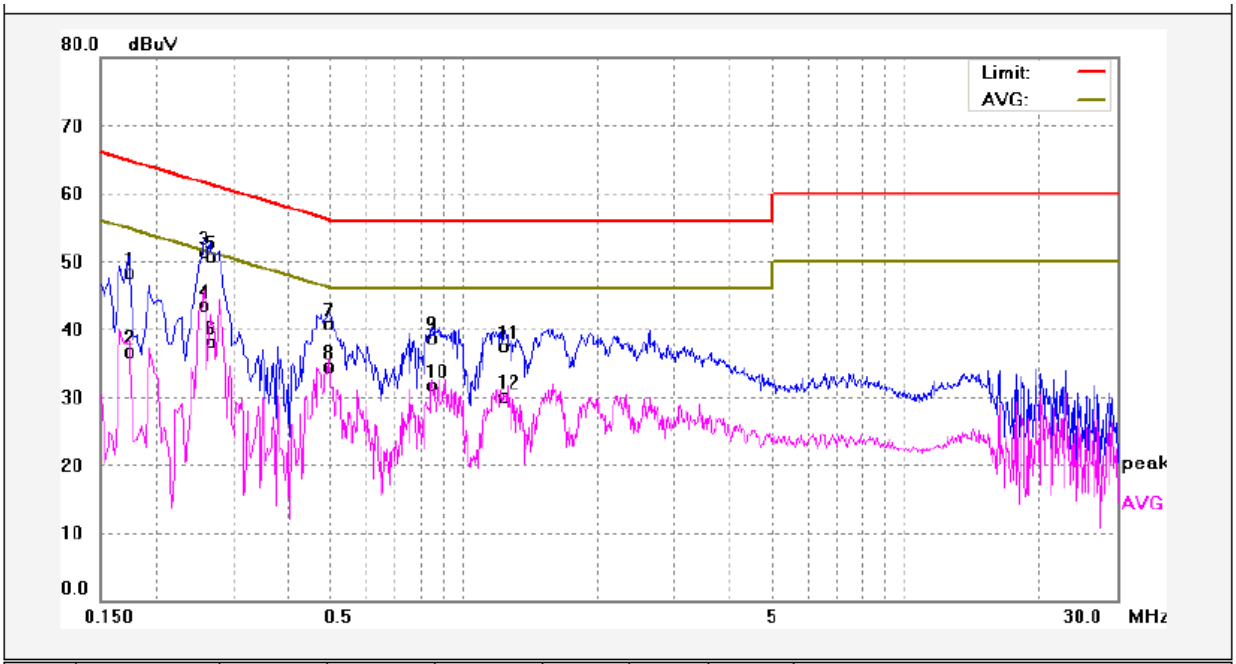
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1660	44.07	10.14	54.21	65.15	-10.94	QP	
2	0.1660	32.14	10.14	42.28	55.15	-12.87	AVG	
3	0.1900	40.28	10.15	50.43	64.03	-13.60	QP	
4	0.1900	29.81	10.15	39.96	54.03	-14.07	AVG	
5	0.3020	43.96	10.16	54.12	60.19	-6.07	QP	
6	0.3020	35.91	10.16	46.07	50.19	-4.12	AVG	
7	0.5780	33.30	10.20	43.50	56.00	-12.50	QP	
8	0.5780	26.66	10.20	36.86	46.00	-9.14	AVG	
9	1.0300	34.17	10.22	44.39	56.00	-11.61	QP	
10	1.0300	26.68	10.22	36.90	46.00	-9.10	AVG	
11	14.2140	28.43	10.66	39.09	60.00	-20.91	QP	
12	14.2140	23.72	10.66	34.38	50.00	-15.62	AVG	

Neutral Line:



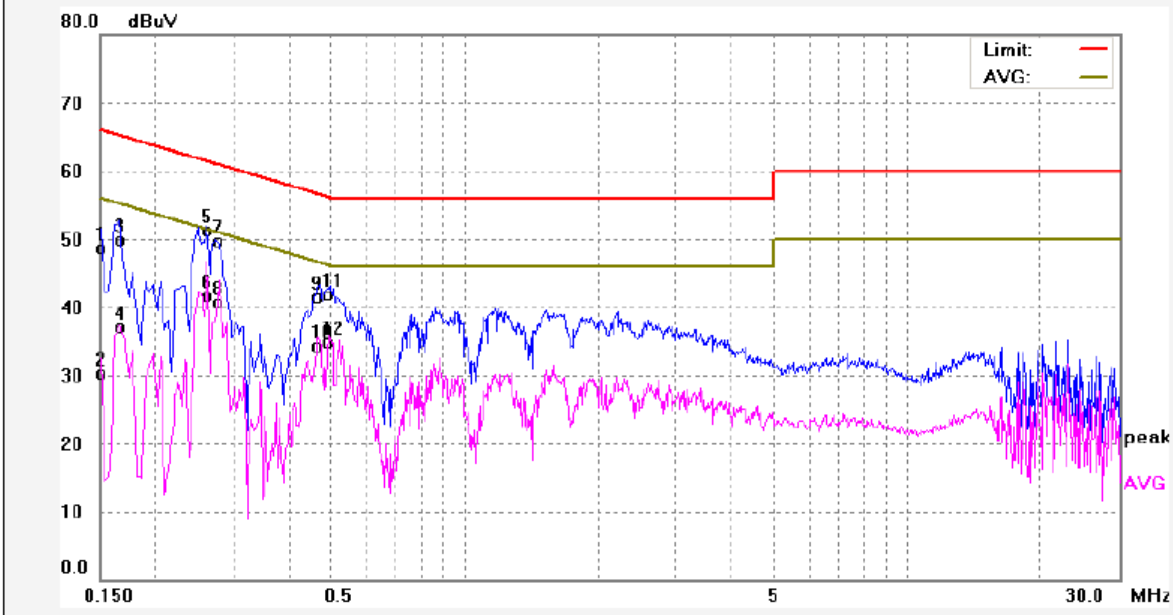
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1660	44.03	10.14	54.17	65.15	-10.98	QP	
2	0.1660	31.90	10.14	42.04	55.15	-13.11	AVG	
3	0.1700	43.48	10.14	53.62	64.96	-11.34	QP	
4	0.1700	29.15	10.14	39.29	54.96	-15.67	AVG	
5	0.1900	40.48	10.15	50.63	64.03	-13.40	QP	
6	0.1900	29.71	10.15	39.86	54.03	-14.17	AVG	
7	0.3020	43.95	10.16	54.11	60.19	-6.08	QP	
8	0.3020	35.75	10.16	45.91	50.19	-4.28	AVG	
9	0.5980	33.22	10.20	43.42	56.00	-12.58	QP	
10	0.5980	26.20	10.20	36.40	46.00	-9.60	AVG	
11	1.0460	34.44	10.22	44.66	56.00	-11.34	QP	
12	1.0460	28.24	10.22	38.46	46.00	-7.54	AVG	

Model: NFT 1N (GRT-240050)
Live Line:



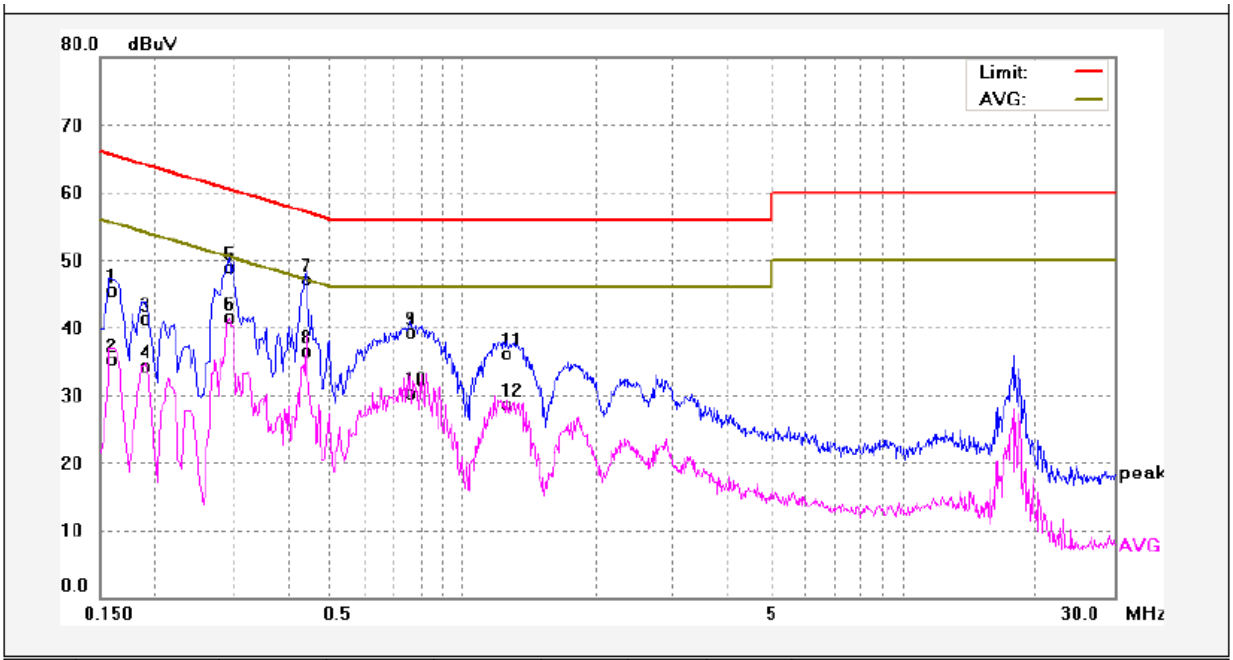
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1740	38.11	10.14	48.25	64.76	-16.51	QP	
2	0.1740	26.49	10.14	36.63	54.76	-18.13	AVG	
3	0.2580	41.11	10.16	51.27	61.49	-10.22	QP	
4	0.2580	33.39	10.16	43.55	51.49	-7.94	AVG	
5	0.2660	40.61	10.16	50.77	61.24	-10.47	QP	
6	0.2660	27.99	10.16	38.15	51.24	-13.09	AVG	
7	0.4940	30.58	10.19	40.77	56.10	-15.33	QP	
8	0.4940	24.38	10.19	34.57	46.10	-11.53	AVG	
9	0.8460	28.57	10.21	38.78	56.00	-17.22	QP	
10	0.8460	21.57	10.21	31.78	46.00	-14.22	AVG	
11	1.2420	27.24	10.23	37.47	56.00	-18.53	QP	
12	1.2420	19.80	10.23	30.03	46.00	-15.97	AVG	

Neutral Line:



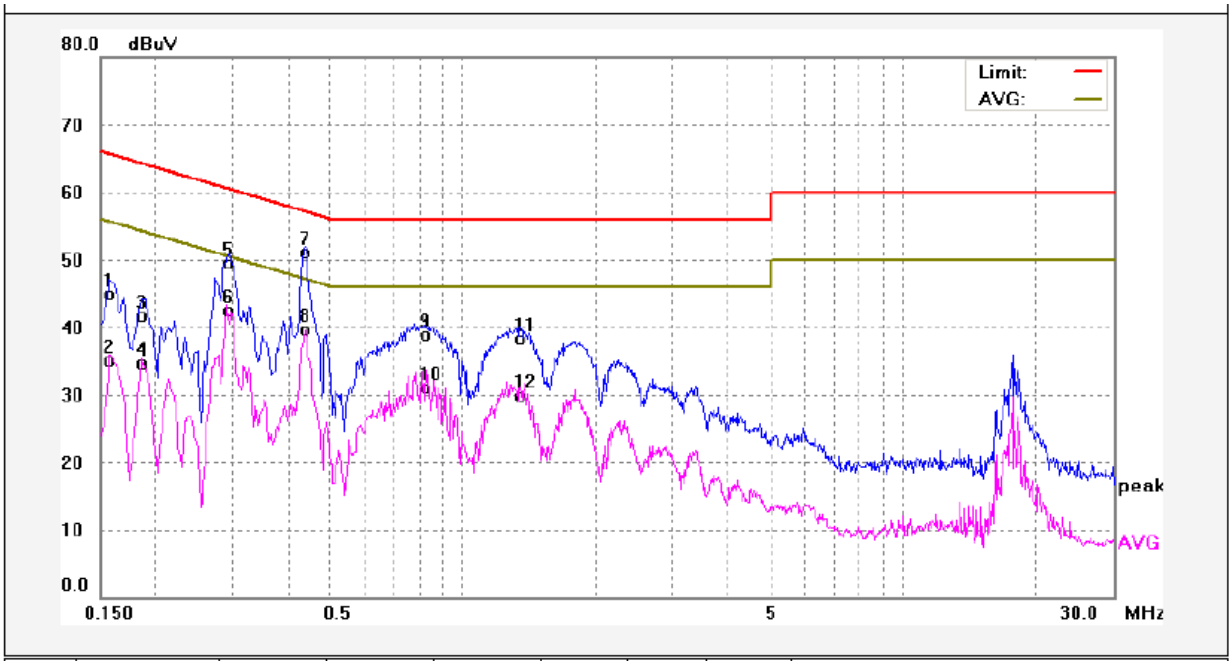
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1500	38.62	10.13	48.75	65.99	-17.24	QP	
2	0.1500	20.10	10.13	30.23	55.99	-25.76	AVG	
3	0.1660	39.72	10.14	49.86	65.15	-15.29	QP	
4	0.1660	26.91	10.14	37.05	55.15	-18.10	AVG	
5	0.2620	41.19	10.16	51.35	61.36	-10.01	QP	
6	0.2620	31.54	10.16	41.70	51.36	-9.66	AVG	
7	0.2740	39.54	10.16	49.70	60.99	-11.29	QP	
8	0.2740	30.52	10.16	40.68	50.99	-10.31	AVG	
9	0.4700	31.40	10.19	41.59	56.51	-14.92	QP	
10	0.4700	24.07	10.19	34.26	46.51	-12.25	AVG	
11	0.4980	31.79	10.19	41.98	56.03	-14.05	QP	
12	0.4980	24.71	10.19	34.90	46.03	-11.13	AVG	

Model: NFT 1N AF
Live Line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1580	35.34	10.13	45.47	65.56	-20.09	QP	
2	0.1580	25.27	10.13	35.40	55.56	-20.16	AVG	
3	0.1900	31.10	10.15	41.25	64.03	-22.78	QP	
4	0.1900	24.23	10.15	34.38	54.03	-19.65	AVG	
5	0.2940	38.84	10.16	49.00	60.41	-11.41	QP	
6	0.2940	31.28	10.16	41.44	50.41	-8.97	AVG	
7	0.4420	36.83	10.18	47.01	57.02	-10.01	QP	
8	0.4420	26.32	10.18	36.50	47.02	-10.52	AVG	
9	0.7620	29.00	10.21	39.21	56.00	-16.79	QP	
10	0.7620	20.14	10.21	30.35	46.00	-15.65	AVG	
11	1.2500	25.90	10.23	36.13	56.00	-19.87	QP	
12	1.2500	18.54	10.23	28.77	46.00	-17.23	AVG	

Neutral Line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1580	34.85	10.13	44.98	65.56	-20.58	QP	
2	0.1580	24.88	10.13	35.01	55.56	-20.55	AVG	
3	0.1884	31.51	10.15	41.66	64.10	-22.44	QP	
4	0.1884	24.48	10.15	34.63	54.10	-19.47	AVG	
5	0.2940	39.27	10.16	49.43	60.41	-10.98	QP	
6	0.2940	32.26	10.16	42.42	50.41	-7.99	AVG	
7	0.4380	40.87	10.18	51.05	57.10	-6.05	QP	
8	0.4380	29.44	10.18	39.62	47.10	-7.48	AVG	
9	0.8260	28.78	10.21	38.99	56.00	-17.01	QP	
10	0.8260	20.80	10.21	31.01	46.00	-14.99	AVG	
11	1.3500	27.99	10.23	38.22	56.00	-17.78	QP	
12	1.3500	19.68	10.23	29.91	46.00	-16.09	AVG	

5.2 Radiation Emission, 30MHz to 1000MHz

Test Requirement ..... : FCC PART 15, SUBPART B

Test Method ..... : ANSI C63.4

Test Result ..... : Pass

Frequency Range ..... : 30MHz to 1000MHz

Class. : Class B

Limit..... :

Frequency (MHz)	Distance (Meter)	Limit (dBμV/m Quasi-pea
30 to 88	3	40
88 to 216	3	43.5
216 to 960	3	46
960 to 1000	3	54

5.2.1 E.U.T. Operation

Operating Environment:

Temperature ..... : 22.5°C

Humidity ..... : 52.6%RH

Atmospheric Pressure..... : 101.2kPa

EUT Operation:

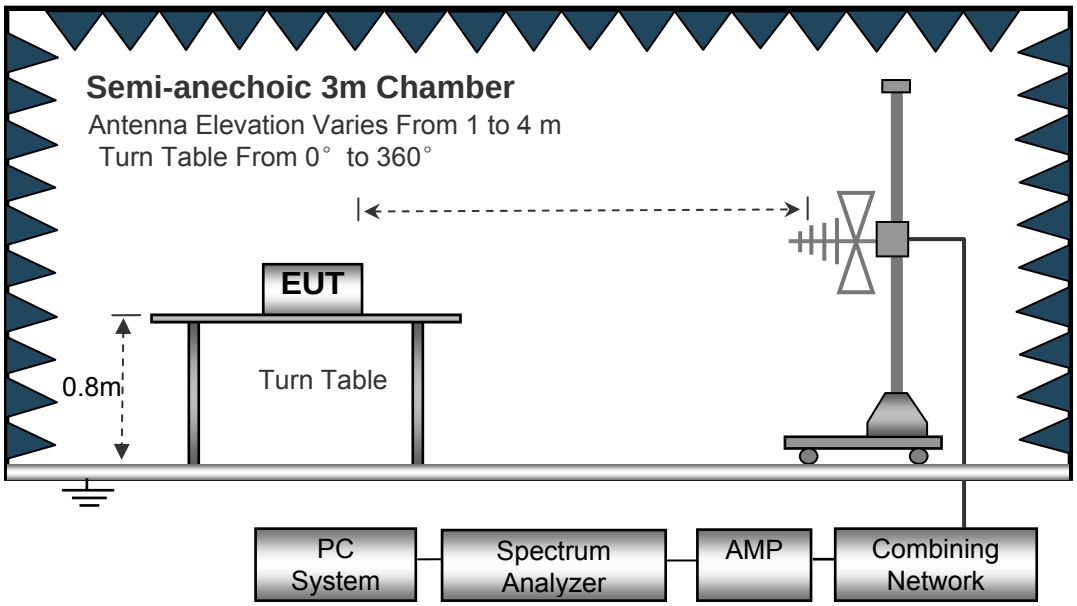
Input Voltage..... : AC 120V/60Hz

Operating Mode ..... : Transmitting

Remark ..... : The worst case is Transmitting mode and the data is shown as follow.

5.2.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.



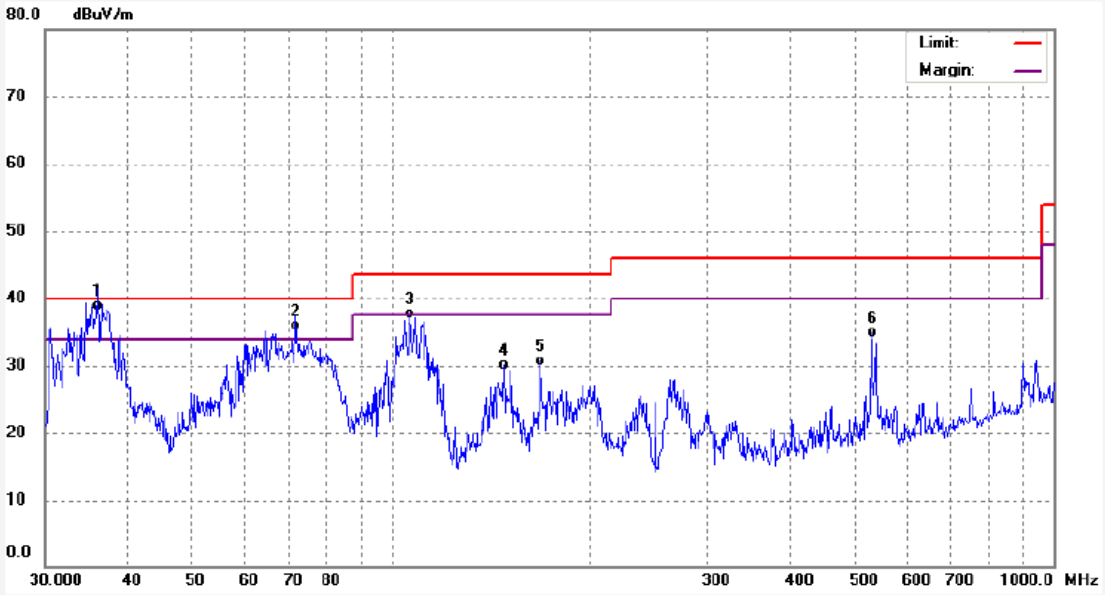
5.2.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Quasi-peak measurements were performed if peak emissions were within 6dB of the Quasi-peak limit line.

5.2.4 Radiated Emission Test Data, 30MHz to 1000MHz

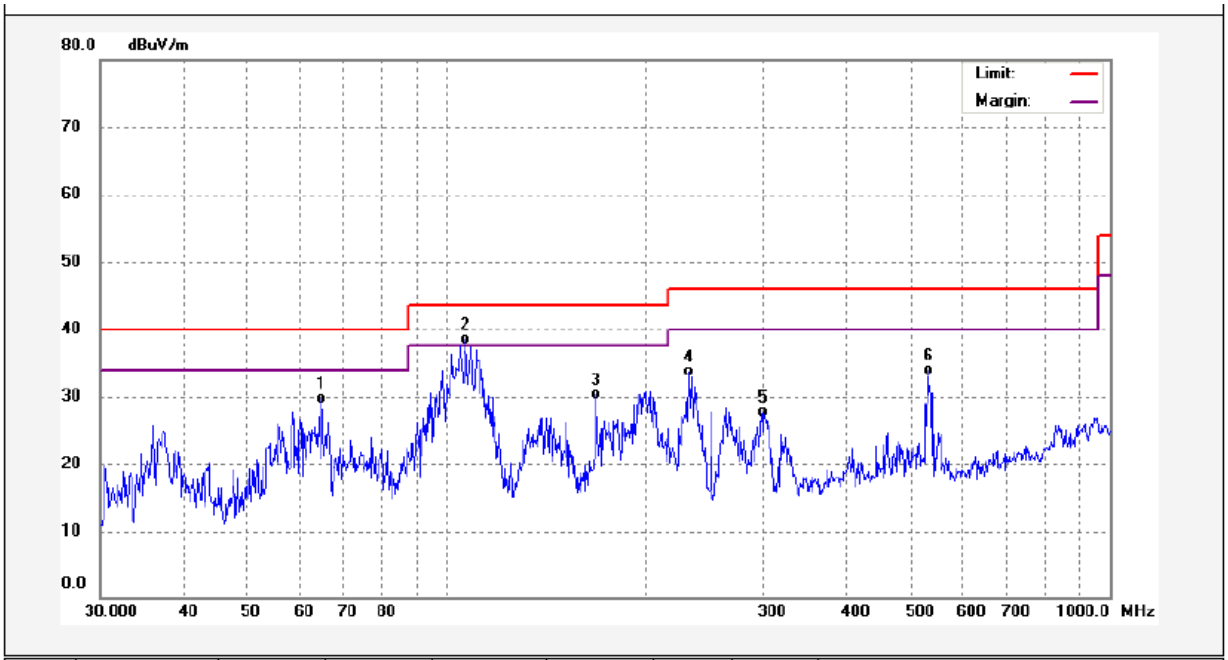
Model : NFT 1N (AY012E-ZF243)

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	36.1272	54.70	-15.70	39.00	40.00	-1.00	QP	
2	71.8320	56.05	-20.15	35.90	40.00	-4.10	QP	
3	106.7587	55.01	-17.27	37.74	43.50	-5.76	QP	
4	147.9214	49.77	-19.70	30.07	43.50	-13.43	QP	
5	167.8243	49.33	-18.65	30.68	43.50	-12.82	QP	
6	531.9635	45.10	-10.14	34.96	46.00	-11.04	QP	

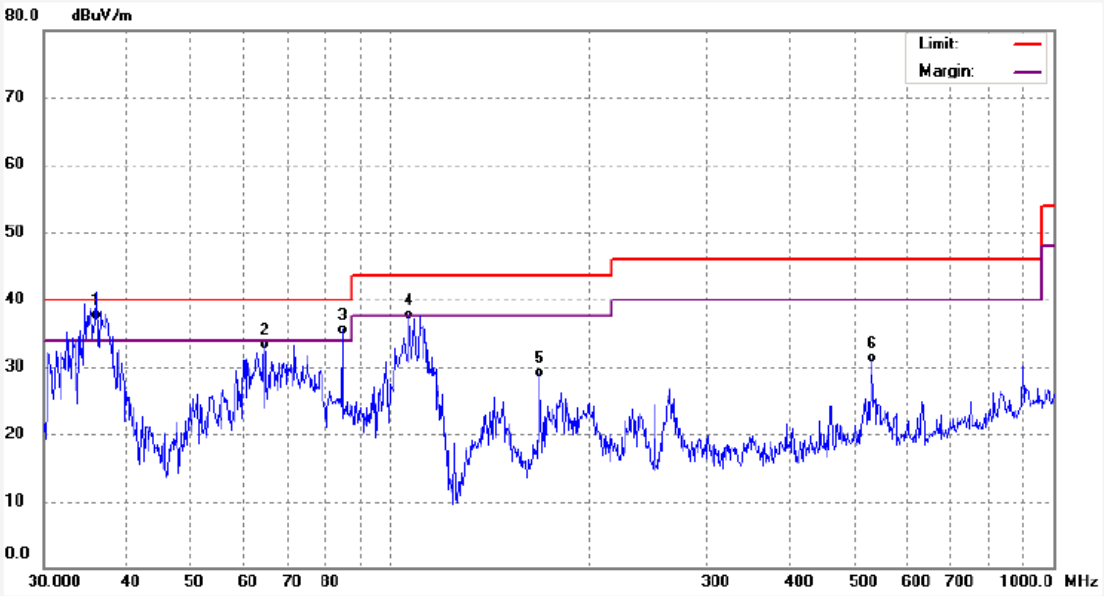
Antenna Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	64.6594	48.98	-19.23	29.75	40.00	-10.25	QP	
2	106.7587	55.72	-17.27	38.45	43.50	-5.05	QP	
3	167.8243	48.89	-18.65	30.24	43.50	-13.26	QP	
4	231.7179	50.01	-16.21	33.80	46.00	-12.20	QP	
5	300.3672	42.86	-15.14	27.72	46.00	-18.28	QP	
6	531.9635	44.11	-10.14	33.97	46.00	-12.03	QP	

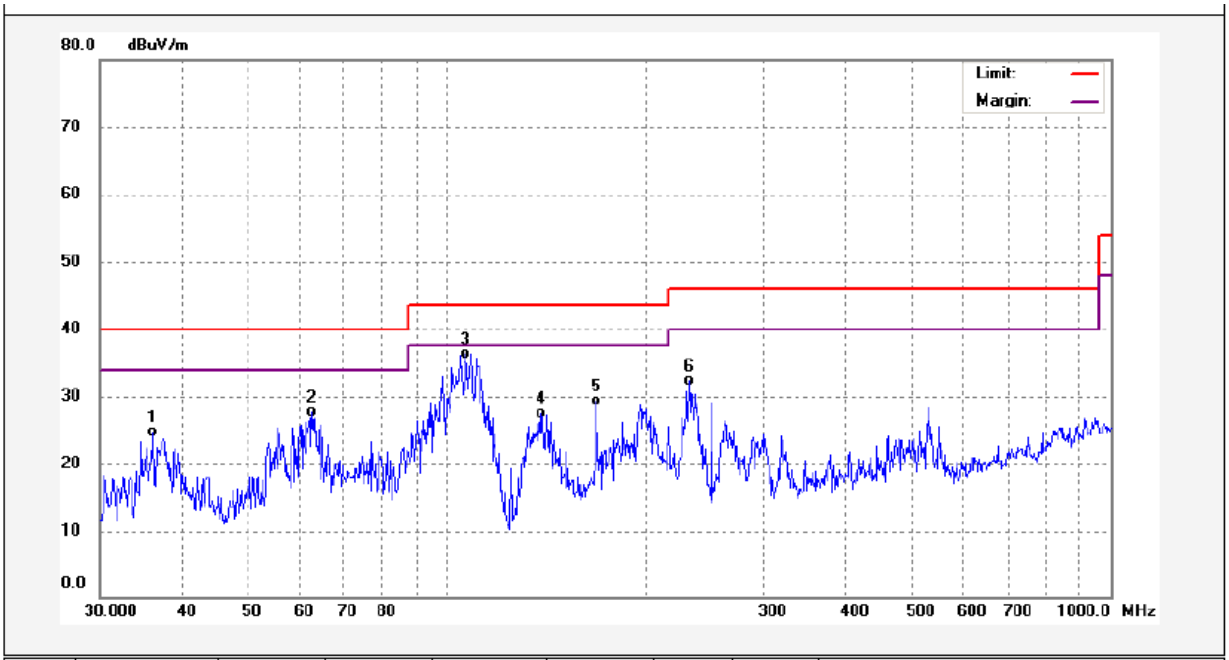
Model : NFT 1N (GRT-240050)

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	36.1272	53.50	-15.70	37.80	40.00	-2.20	QP	
2	64.6594	52.63	-19.23	33.40	40.00	-6.60	QP	
3	84.7019	56.69	-21.09	35.60	40.00	-4.40	QP	
4	106.7587	55.04	-17.27	37.77	43.50	-5.73	QP	
5	167.8243	47.72	-18.65	29.07	43.50	-14.43	QP	
6	533.8321	41.50	-10.26	31.24	46.00	-14.76	QP	

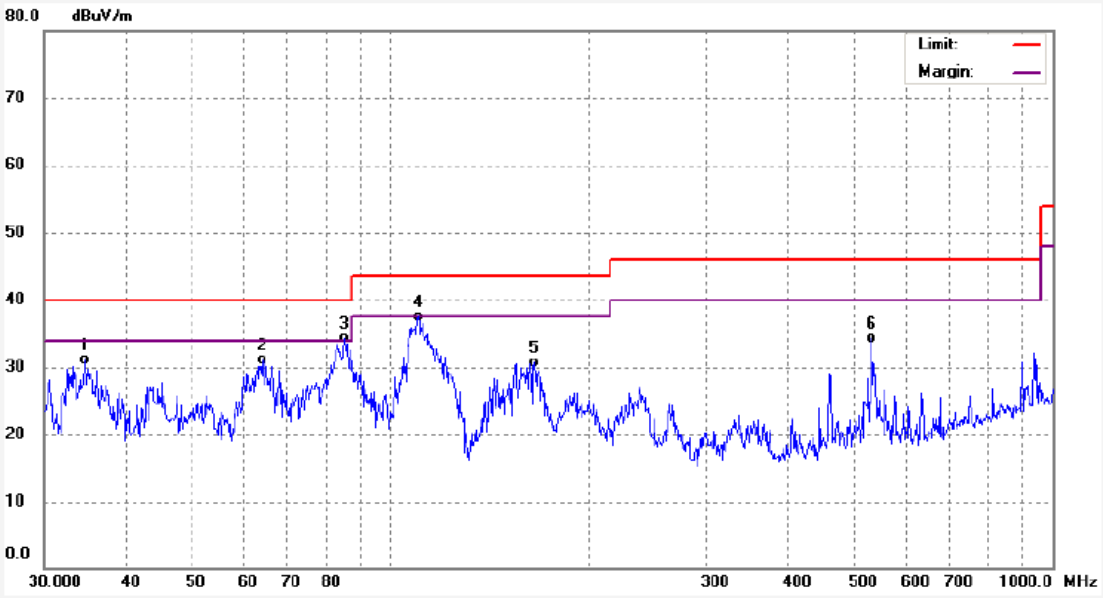
Antenna Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	36.1272	40.38	-15.70	24.68	40.00	-15.32	QP	
2	62.6507	46.86	-19.12	27.74	40.00	-12.26	QP	
3	106.7587	53.66	-17.27	36.39	43.50	-7.11	QP	
4	138.3873	46.82	-19.29	27.53	43.50	-15.97	QP	
5	167.8243	47.98	-18.65	29.33	43.50	-14.17	QP	
6	231.7179	48.60	-16.21	32.39	46.00	-13.61	QP	

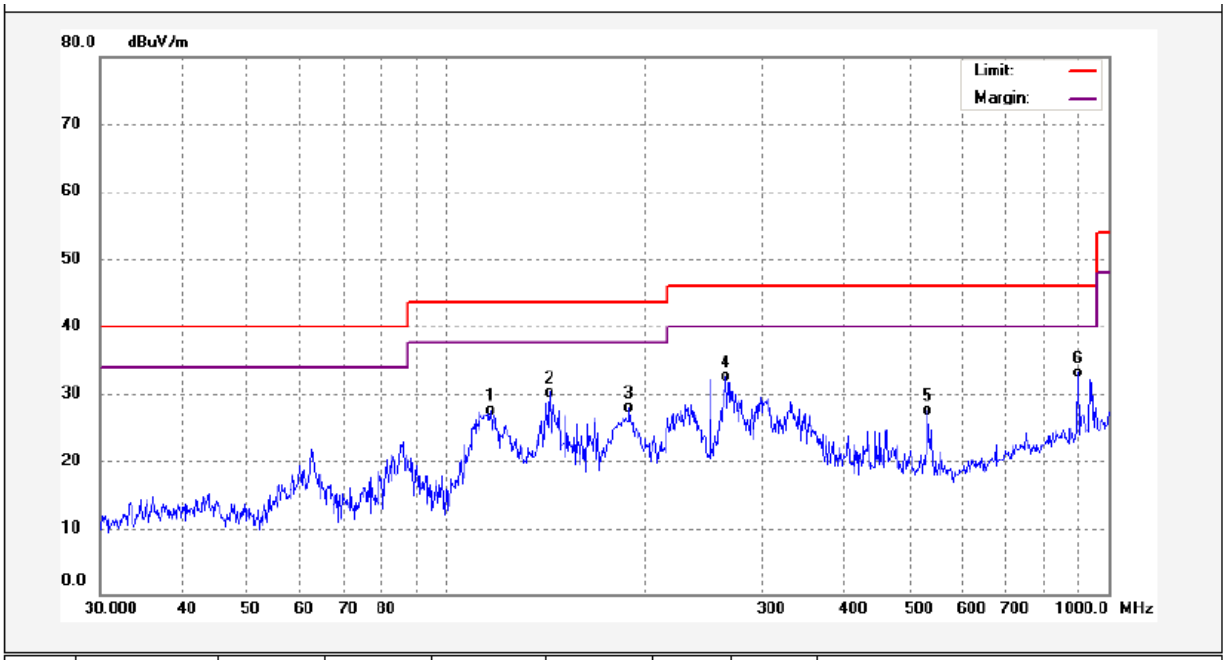
Model : NFT 1N AF

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	34.6385	47.05	-16.01	31.04	40.00	-8.96	QP	
2	63.9828	50.23	-19.20	31.03	40.00	-8.97	QP	
3	85.2980	55.22	-20.93	34.29	40.00	-5.71	QP	
4	110.1816	54.69	-17.12	37.57	43.50	-5.93	QP	
5	164.9075	49.37	-18.72	30.65	43.50	-12.85	QP	
6	533.8321	44.51	-10.26	34.25	46.00	-11.75	QP	

Antenna Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	116.5401	44.48	-17.02	27.46	43.50	-16.04	QP	
2	143.3261	50.03	-19.83	30.20	43.50	-13.30	QP	
3	189.0743	45.44	-17.49	27.95	43.50	-15.55	QP	
4	264.7457	48.47	-15.99	32.48	46.00	-13.52	QP	
5	533.8321	37.81	-10.26	27.55	46.00	-18.45	QP	
6	900.1474	37.21	-4.13	33.08	46.00	-12.92	QP	

5.3 Radiation Emission, Above 1000MHz

Test Requirement ..... : FCC PART 15, SUBPART B

Test Method ..... : ANSI C63.4

Test Result..... : Pass

Frequency Range ..... : 1GHz~6GHz

Class. : Class B

Limit. ..... :

Frequency Range (MHz)	Distance (Meter)	Average Limit dB(uV/m)	Peak Limit (dBuV/m)
Above 1GHz	3	54	74

5.3.1 E.U.T. Operation

Operating Environment:

Temperature..... : 22.4°C

Humidity ..... : 52.3%RH

Atmospheric Pressure..... : 101.3kPa

EUT Operation:

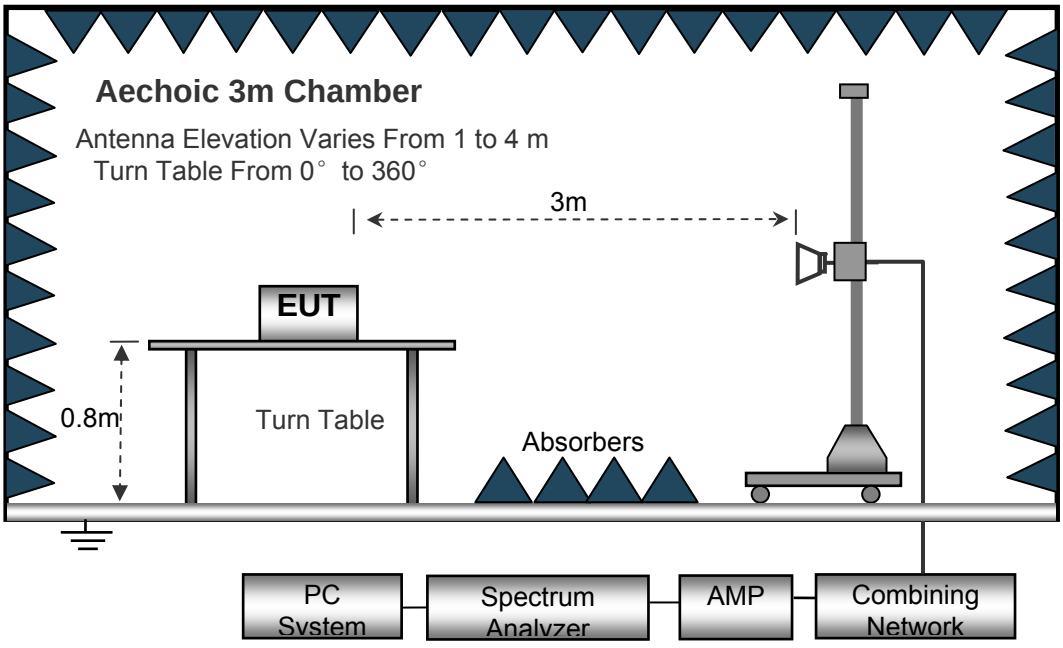
Input Voltage ..... : AC 120V/60Hz

Operating Mode ..... : Transmitting

Remark..... : The worst case is Transmitting mode and the data is shown as follow.

5.3.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.

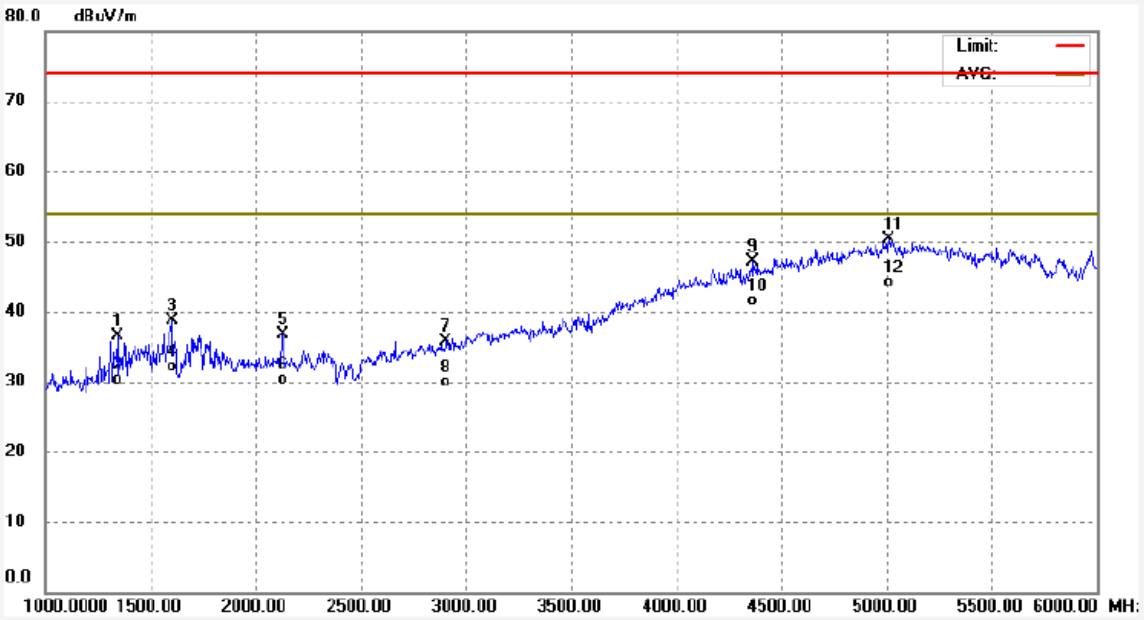


5.3.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Average measurements were performed if peak emissions were within 6dB of the average limit line

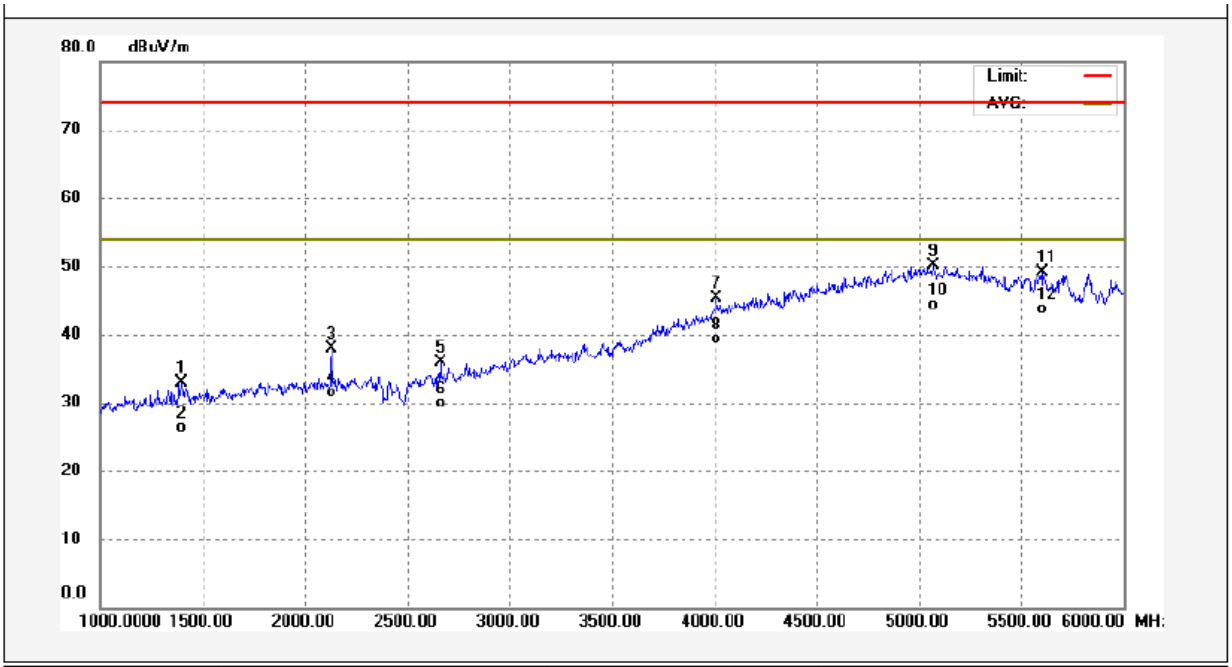
5.3.4 Radiated Emission Test Data, Above 1000MHz

Model: NFT 1N (AY012E-ZF243)
Antenna Polarization: Vertical



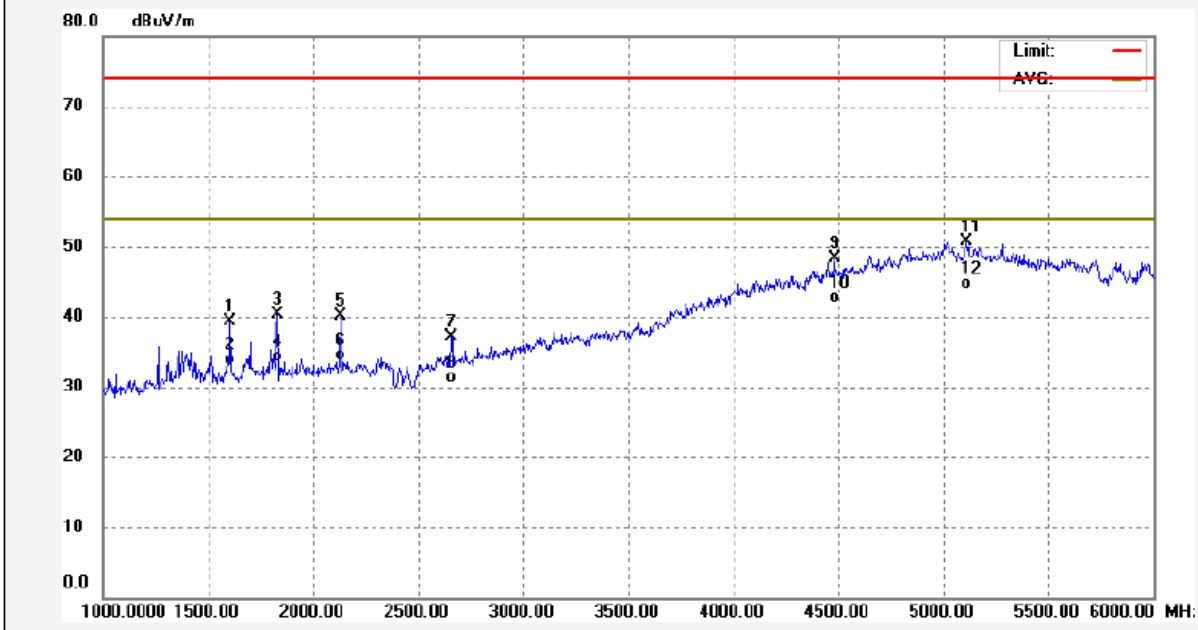
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1340.000	54.98	-18.42	36.56	74.00	-37.44	peak	
2	1340.000	48.68	-18.42	30.26	54.00	-23.74	AVG	
3	1600.000	56.34	-17.57	38.77	74.00	-35.23	peak	
4	1600.000	49.59	-17.57	32.02	54.00	-21.98	AVG	
5	2130.000	52.93	-16.21	36.72	74.00	-37.28	peak	
6	2130.000	46.46	-16.21	30.25	54.00	-23.75	AVG	
7	2905.000	49.64	-13.89	35.75	74.00	-38.25	peak	
8	2905.000	43.87	-13.89	29.98	54.00	-24.02	AVG	
9	4365.000	50.97	-3.94	47.03	74.00	-26.97	peak	
10	4365.000	45.41	-3.94	41.47	54.00	-12.53	AVG	
11	5010.000	50.59	-0.28	50.31	74.00	-23.69	peak	
12	5010.000	44.31	-0.28	44.03	54.00	-9.97	AVG	

Antenna Polarization: Horizontal



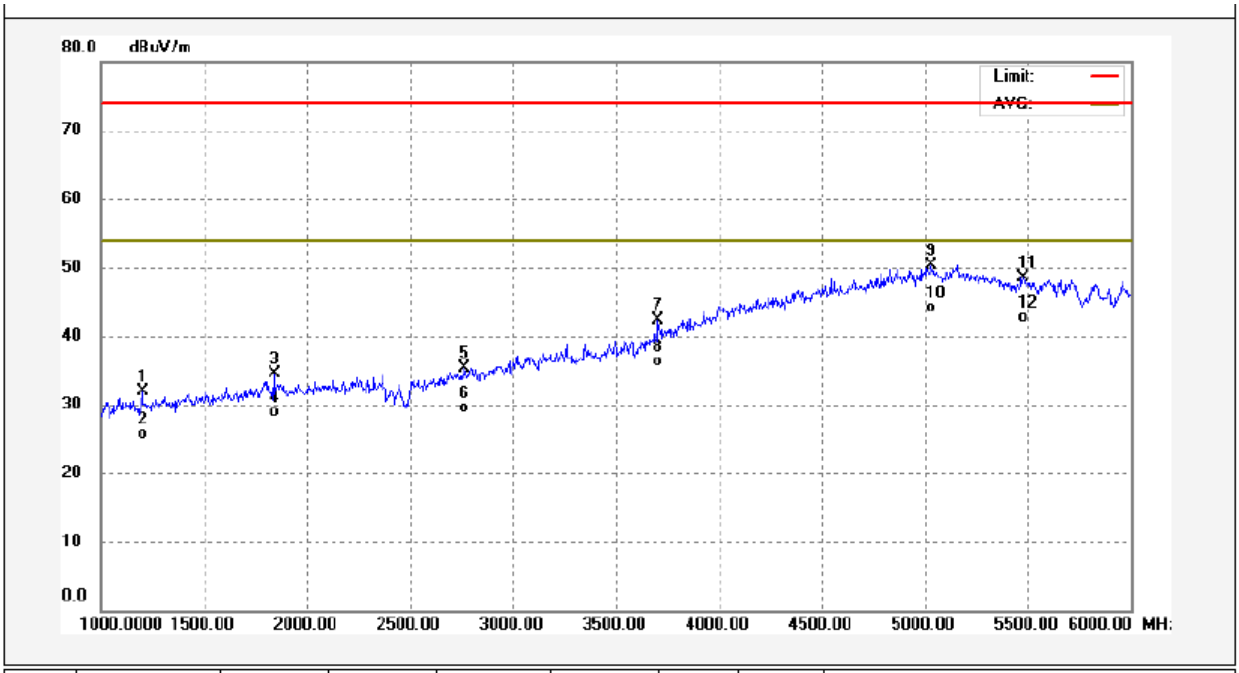
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1395.000	51.14	-18.23	32.91	74.00	-41.09	peak	
2	1395.000	44.58	-18.23	26.35	54.00	-27.65	AVG	
3	2130.000	54.16	-16.21	37.95	74.00	-36.05	peak	
4	2130.000	47.66	-16.21	31.45	54.00	-22.55	AVG	
5	2660.000	51.07	-15.12	35.95	74.00	-38.05	peak	
6	2660.000	44.98	-15.12	29.86	54.00	-24.14	AVG	
7	4010.000	51.30	-6.06	45.24	74.00	-28.76	peak	
8	4010.000	45.29	-6.06	39.23	54.00	-14.77	AVG	
9	5070.000	50.48	-0.45	50.03	74.00	-23.97	peak	
10	5070.000	44.66	-0.45	44.21	54.00	-9.79	AVG	
11	5605.000	51.01	-1.84	49.17	74.00	-24.83	peak	
12	5605.000	45.58	-1.84	43.74	54.00	-10.26	AVG	

Model: NFT 1N (GRT-240050)
Antenna Polarization: Vertical



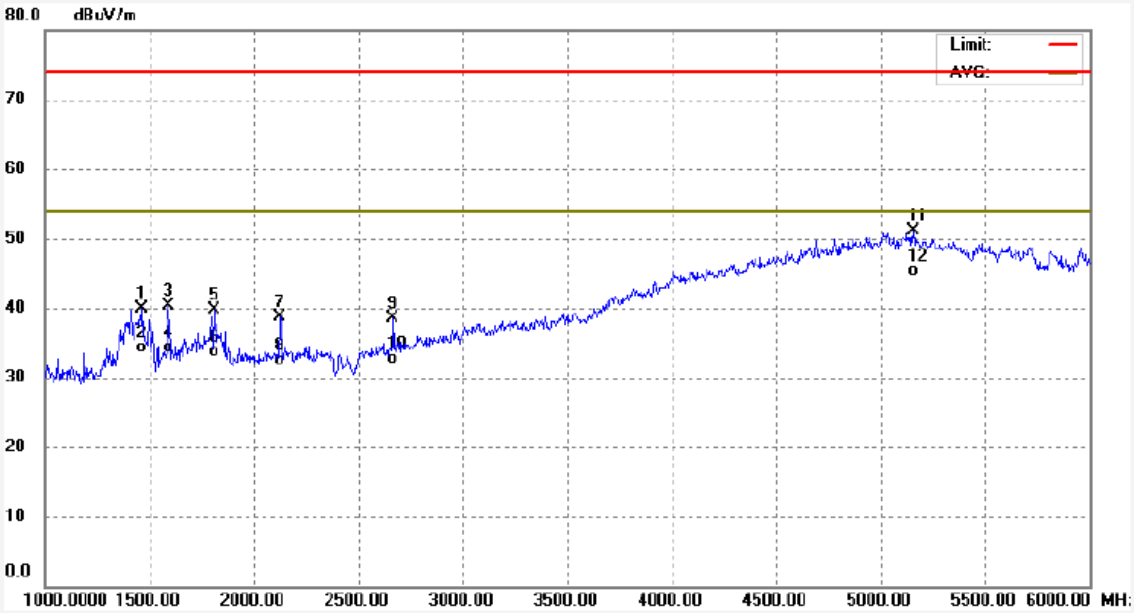
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1605.000	56.88	-17.56	39.32	74.00	-34.68	peak	
2	1605.000	51.45	-17.56	33.89	54.00	-20.11	AVG	
3	1830.000	57.16	-16.85	40.31	74.00	-33.69	peak	
4	1830.000	51.06	-16.85	34.21	54.00	-19.79	AVG	
5	2130.000	56.36	-16.21	40.15	74.00	-33.85	peak	
6	2130.000	50.77	-16.21	34.56	54.00	-19.44	AVG	
7	2655.000	52.20	-15.14	37.06	74.00	-36.94	peak	
8	2655.000	46.42	-15.14	31.28	54.00	-22.72	AVG	
9	4480.000	51.65	-3.26	48.39	74.00	-25.61	peak	
10	4480.000	45.89	-3.26	42.63	54.00	-11.37	AVG	
11	5110.000	51.38	-0.58	50.80	74.00	-23.20	peak	
12	5110.000	45.27	-0.58	44.69	54.00	-9.31	AVG	

Antenna Polarization: Horizontal



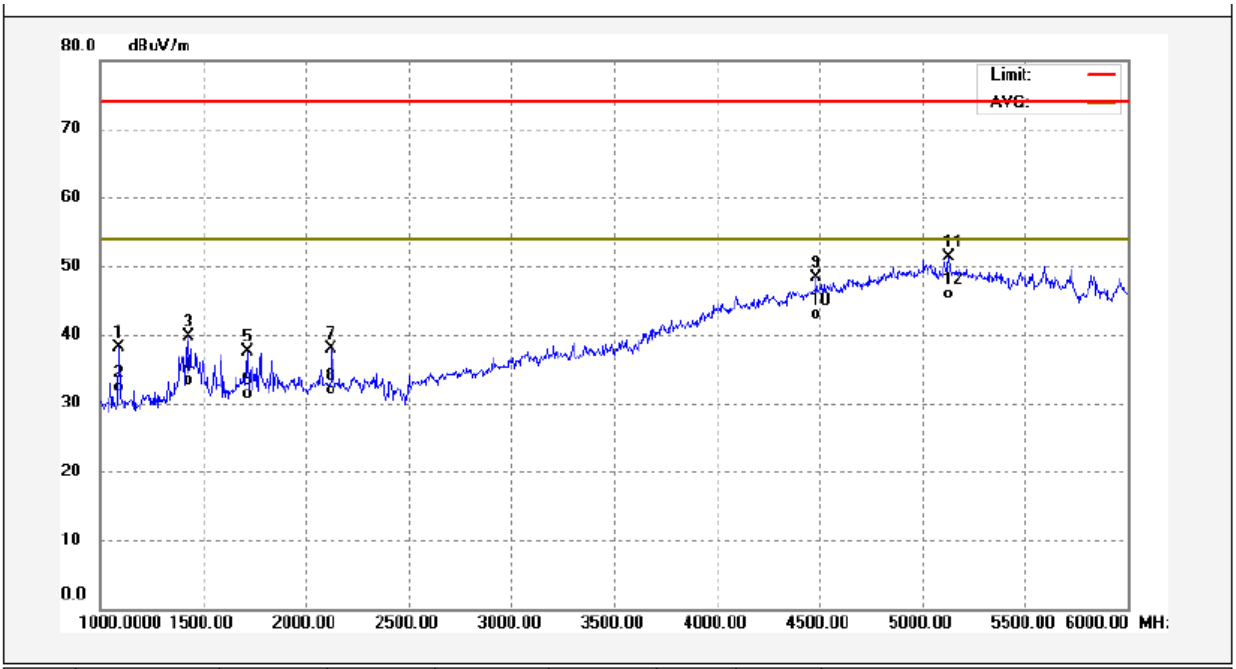
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1200.000	50.79	-18.88	31.91	74.00	-42.09	peak	
2	1200.000	44.50	-18.88	25.62	54.00	-28.38	AVG	
3	1840.000	51.36	-16.82	34.54	74.00	-39.46	peak	
4	1840.000	45.78	-16.82	28.96	54.00	-25.04	AVG	
5	2765.000	49.95	-14.58	35.37	74.00	-38.63	peak	
6	2765.000	44.05	-14.58	29.47	54.00	-24.53	AVG	
7	3705.000	51.51	-9.30	42.21	74.00	-31.79	peak	
8	3705.000	45.62	-9.30	36.32	54.00	-17.68	AVG	
9	5030.000	50.69	-0.33	50.36	74.00	-23.64	peak	
10	5030.000	44.38	-0.33	44.05	54.00	-9.95	AVG	
11	5475.000	50.23	-1.67	48.56	74.00	-25.44	peak	
12	5475.000	44.30	-1.67	42.63	54.00	-11.37	AVG	

Model: NFT 1N AF
Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1465.000	58.00	-18.00	40.00	74.00	-34.00	peak	
2	1465.000	52.25	-18.00	34.25	54.00	-19.75	AVG	
3	1590.000	57.99	-17.60	40.39	74.00	-33.61	peak	
4	1590.000	51.88	-17.60	34.28	54.00	-19.72	AVG	
5	1810.000	56.57	-16.92	39.65	74.00	-34.35	peak	
6	1810.000	50.53	-16.92	33.61	54.00	-20.39	AVG	
7	2125.000	54.97	-16.22	38.75	74.00	-35.25	peak	
8	2125.000	48.80	-16.22	32.58	54.00	-21.42	AVG	
9	2665.000	53.58	-15.08	38.50	74.00	-35.50	peak	
10	2665.000	47.77	-15.08	32.69	54.00	-21.31	AVG	
11	5155.000	51.73	-0.71	51.02	74.00	-22.98	peak	
12	5155.000	45.92	-0.71	45.21	54.00	-8.79	AVG	

Antenna Polarization: Horizontal

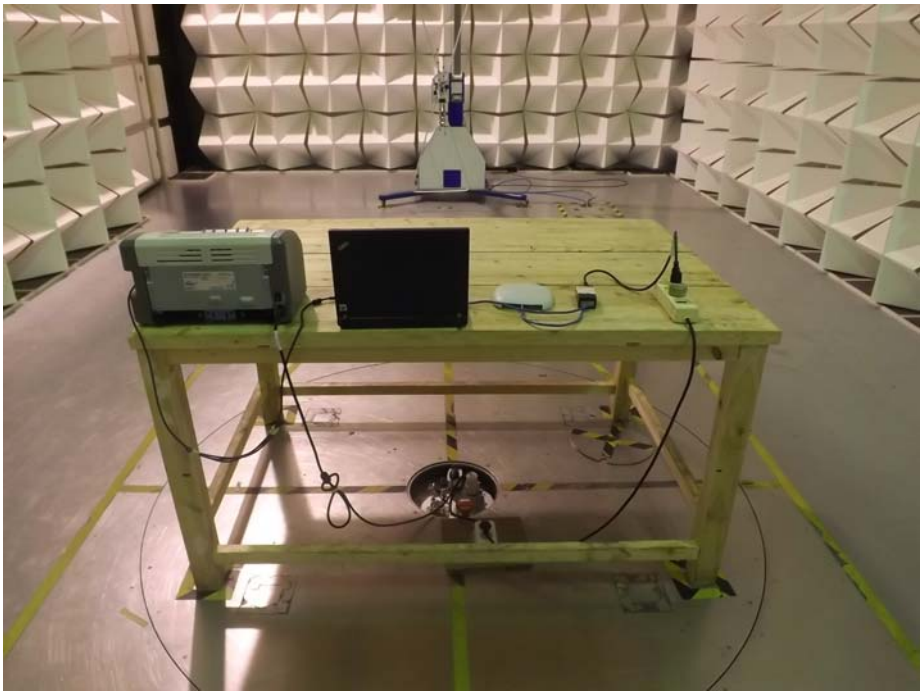


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1090.000	57.40	-19.26	38.14	74.00	-35.86	peak	
2	1090.000	51.50	-19.26	32.24	54.00	-21.76	AVG	
3	1430.000	57.78	-18.12	39.66	74.00	-34.34	peak	
4	1430.000	51.48	-18.12	33.36	54.00	-20.64	AVG	
5	1715.000	54.81	-17.22	37.59	74.00	-36.41	peak	
6	1715.000	48.50	-17.22	31.28	54.00	-22.72	AVG	
7	2125.000	54.12	-16.22	37.90	74.00	-36.10	peak	
8	2125.000	48.09	-16.22	31.87	54.00	-22.13	AVG	
9	4485.000	51.53	-3.22	48.31	74.00	-25.69	peak	
10	4485.000	46.18	-3.22	42.96	54.00	-11.04	AVG	
11	5130.000	51.93	-0.63	51.30	74.00	-22.70	peak	
12	5130.000	46.50	-0.63	45.87	54.00	-8.13	AVG	

6 Photographs – Test Setup

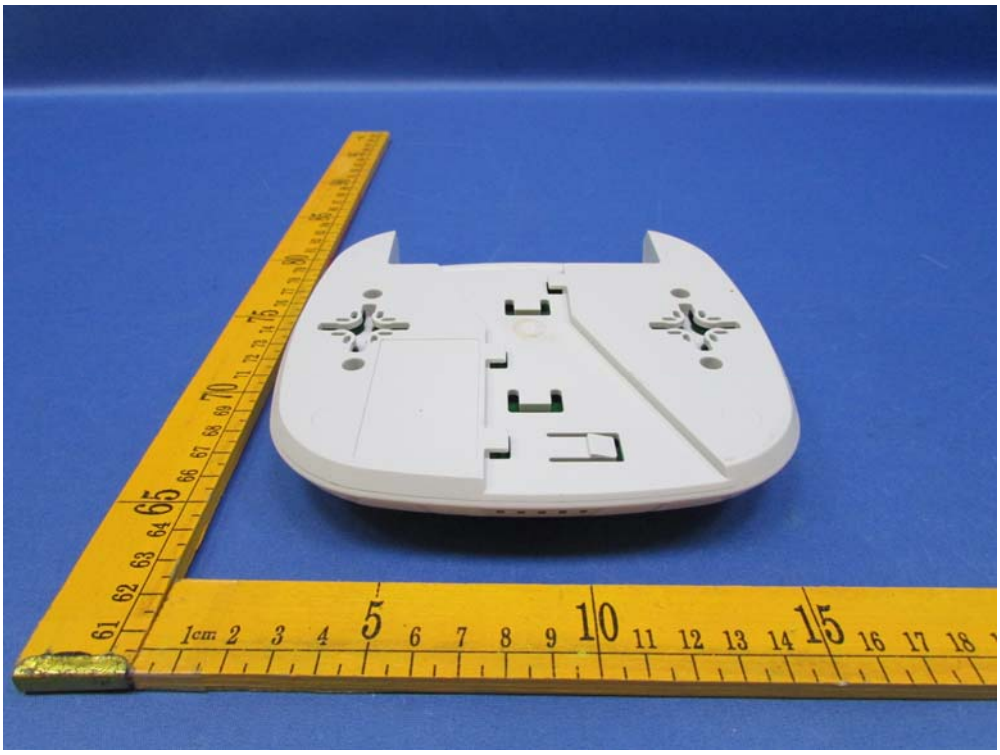
6.1 Photograph –Power Line Conducted Emission Test Setup at Test Site 2#

6.2 Photograph – Radiated Emission Test Setup for 30~1000MHz at Test Site 2#

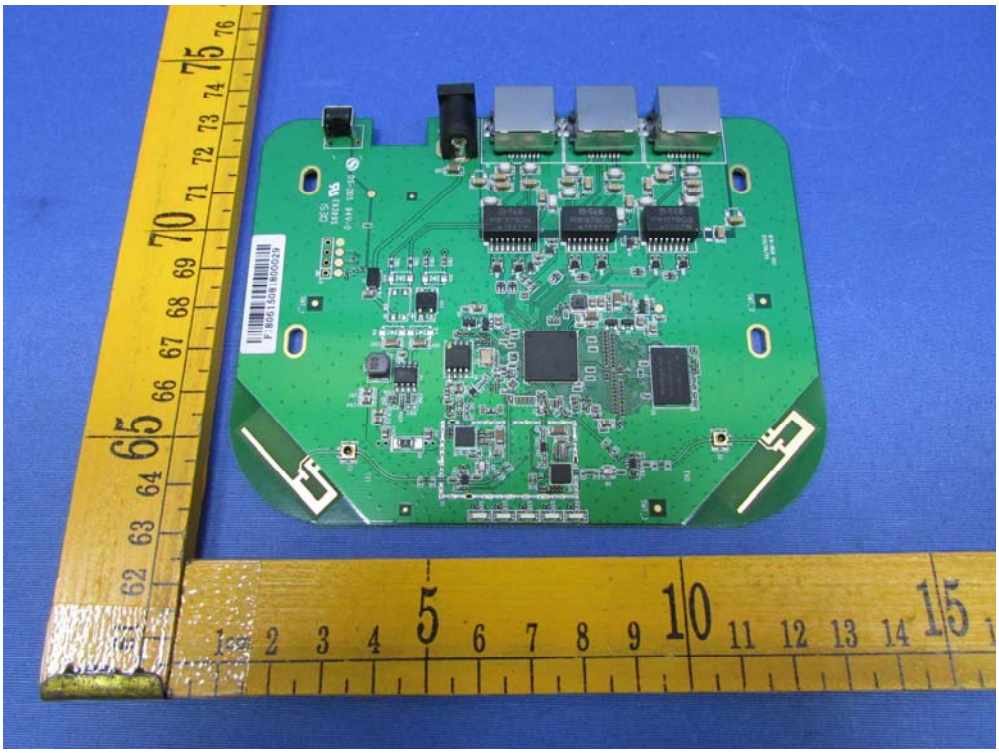


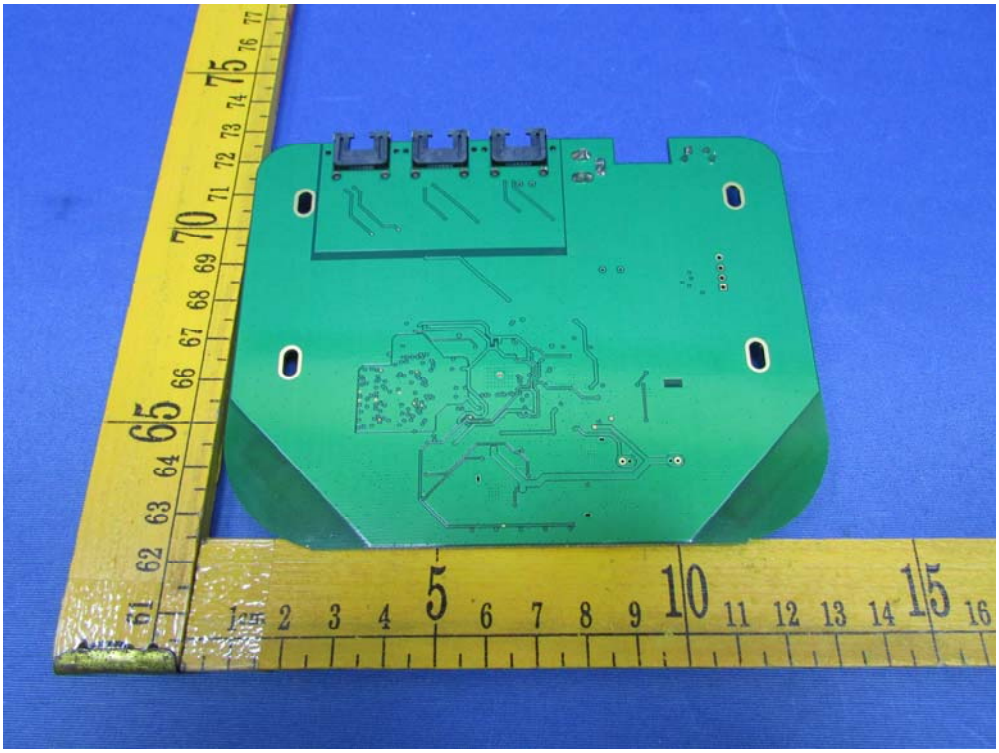
6.3 Photograph – Radiated Emission Test Setup for Above 1GHz at Test Site 1#

7 EUT – Constructional Details



NFT 1N:

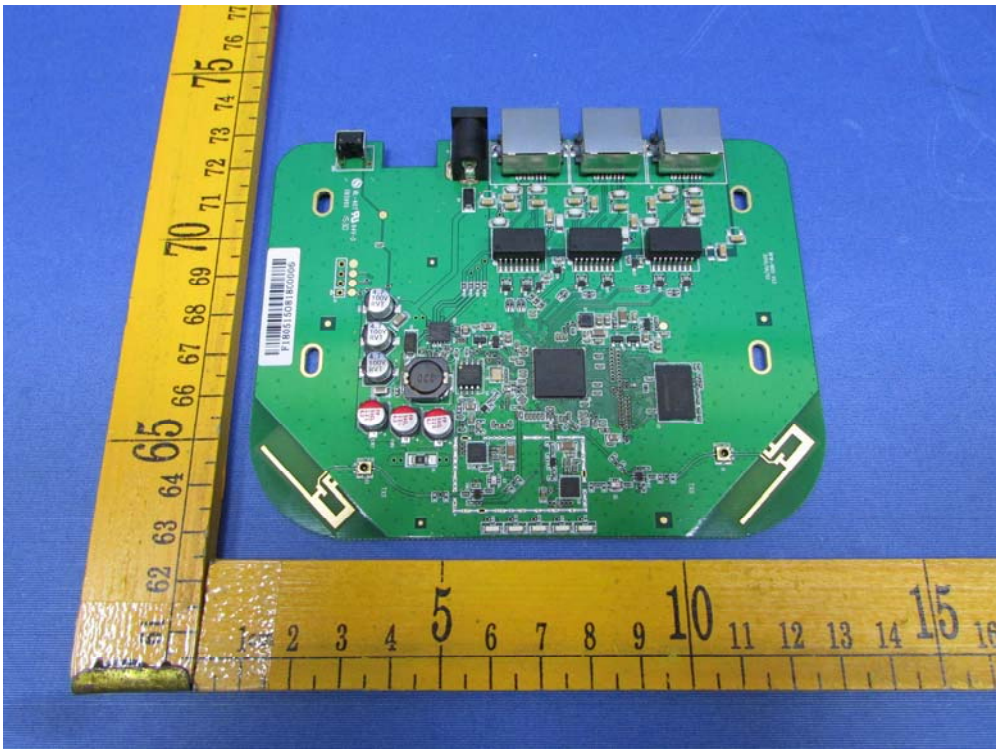


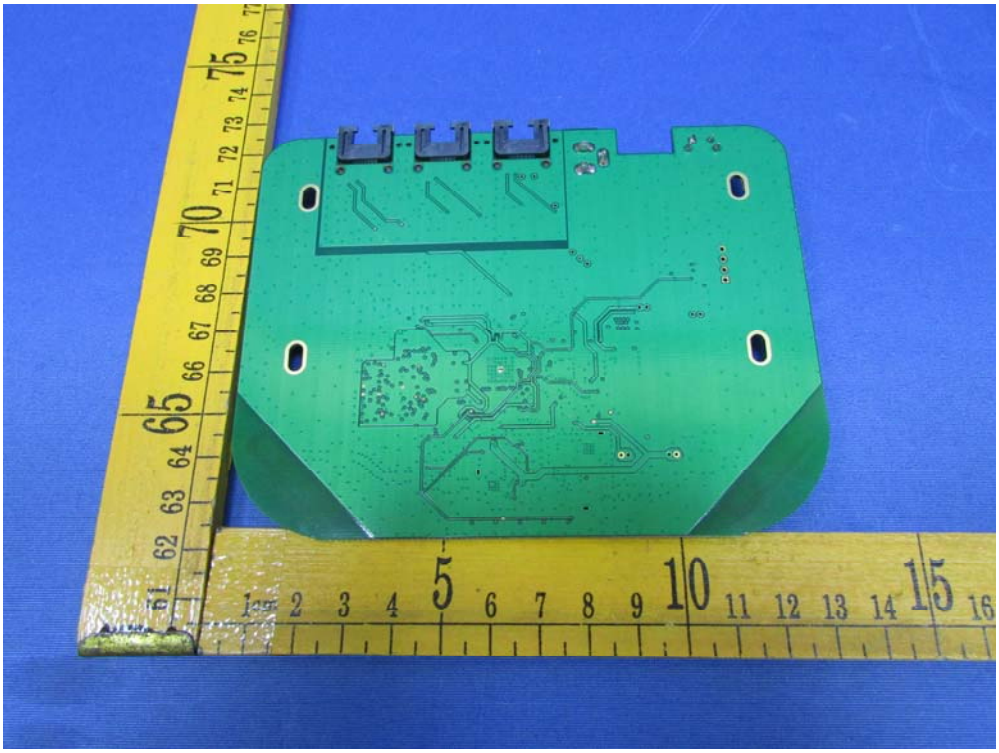



POE POWER ADAPTER
MODEL:AY012E-ZF243
INPUT:100-240V~ 50/60Hz 0.5A
US LISTED
5BE2
E360380
OUTPUT:24V ⎓ 0.5A
For I.T.E Use only
MADE IN CHINA
20141010


POE POWER ADAPTER
MODEL:GRT-240050
US LISTED
4KJ7
E349690
INPUT:100-240V ~ 50/60Hz 0.5A
OUTPUT:24V ⎓ 0. 5A
For I.T.E Use only
MADE IN CHINA
20140319

NFT 1N AF:





======End of Report======