FCC TEST REPORT

For

LINKHUB

Model Number: HH41NH

FCC ID: 2ACCJB106

Report Number : WT188005739

Test Laboratory	:	Shenzhen Academy of Metrology and Quality Inspection National Digital Electronic Product Testing Center
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TEST REPORT DECLARATION

Applicant	:	TCL Communication Ltd
Address	:	7/F, Block F4, TCL International E City Zhong Shan Yuan Road, Nanshan District Shenzhen, China
Manufacturer	:	TCL Communication Ltd
Address	:	7/F, Block F4, TCL International E City Zhong Shan Yuan Road, Nanshan District Shenzhen, China
EUT Description	:	LINKHUB
Model No	:	HH41NH
Trade mark	:	Alcatel
Serial Number	:	/
FCC ID	:	2ACCJB106

Test Standards:

FCC Part 15 Subpart B 15.107, 15.109 （2017）

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2014).

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project Engineer:	(Zhou Fangai 周芳媛)	Date:	Oct.24,2018
Checked by:	(Lin Yixiang 林奕翔)	Date:	Oct.24,2018
Approved by:	(Lin Bin 林斌)	Date:	Oct.24,2018

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	FCC Rules	Test Results
Conducted Disturbance	15.107	Pass
Radiation Emission	15.109	Pass

Remark: “N/A” means “Not applicable.”

2. GENERAL INFORMATION

2.1. Report information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

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2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

2.3. Measurement Uncertainty

Conducted Emission
9kHz~30MHz 3.5dB

Radiated Emission
30MHz~1000MHz 4.5dB
1GHz~26.5GHz 4.6dB

3. PRODUCT DESCRIPTION

3.1. EUT Description

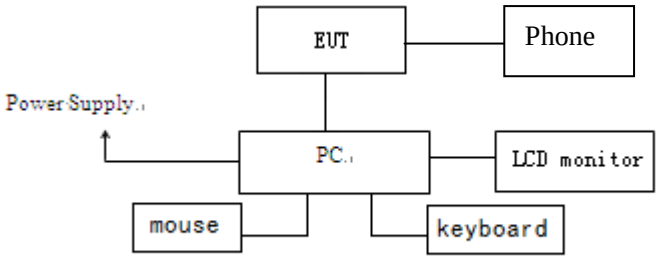
Table 2 Specification of the Equipment under Test

Product Type:	LINKHUB
Hardware Version:	V04
Software Version :	HH41_00_02.00_13
FCC-ID:	2ACCJB106
Frequency:	GSM850: TX 824MHz~849MHz RX 869MHz~894MHz PCS1900: TX 1850MHZ~1910MHz RX 1930MHz~1990MHz WCDMA 850: TX 824MHz~849MHz RX 869MHz~894MHz WCDMA 1700: TX: 1710MHz~1755MHz RX 2110MHz~2155MHz WCDMA 1900: TX 1850MHZ~1910MHz RX 1930MHz~1990MHz LTE Band 2: TX 1850MHZ~1910MHz RX 1930MHz~1990MHz LTE Band 4: TX: 1710MHz~1755MHz RX 2110MHz~2155MHz LTE Band 5: TX 824MHz~849MHz RX 869MHz~894MHz LTE Band 7: TX 2500MHz~2570MHz RX 2620MHz~2690MHz LTE Band 12: TX 698 ~ 716MHz RX728 ~ 746MHz LTE Band 13: TX 777~ 787MHz RX746~ 756MHz LTE Band 17: TX 704~716MHz RX 734~ 746MHz LTE Band 66: TX: 1710MHz~1780MHz RX 2110MHz~2200MHz WiFi: 2412MHz~2462MHz
Type(s) of Modulation:	GSM850/PCS1900:GMSK 8PSK WCDMA:QPSK LTE:QPSK, 16QAM DSSS (DBPSK, DQPSK, CCK) for 802.11b OFDM (BPSK, QPSK, 16QAM, 64QAM) for 802.11g/n
Antenna Type:	GSM/WCDMA/LTE: Fixed External antenna 698MHz~800MHz: 0.5dBi 824MHz~849MHz: 0.5dBi 1710MHz~1755MHz: 1.0dBi 1850MHZ~1910MHz: 1.0dBi 2500MHz~2570MHz: 1.5dBi WiFi: PIFA antenna 1.5dBi
Operating voltage:	120V AC Adapter; 4.5V (Low)/5.0V (Nominal)/ 5.5V (Max)

Remark:

This is test report is for application of FCC ID:2ACCJB106,which consists of reuse data of FCC ID: 2ACCJB092. The EUT in this test report expand support of LTE band 4 to B66, other RF bands remains unchange. The PCB layout is not modified, JBP part was spot checked, test data from Test Report: WT178002941 are reused in this report to cover other test items.

3.2. Block Diagram of EUT Configuration



Test mode 1

3.3. Operating Condition of EUT

Test mode 1: Power with adapter and connected to a pc as well as a Phone.

The test mode mentioned above is identified as worst case for this EUT and the test results for this mode is recorded in this report.

The Radiated emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (X plane).

3.4. Support Equipment List

Table 3 Support Equipment List

Name	Model No	S/N	Manufacturer
Adaptor 1# for EUT	UC13US	--	AOHAI
Adaptor 2# for EUT	UC13US	--	TEN PAO

Table 4 Support Equipment List

Name	Model No	S/N	Manufacturer	FCC
Notebook	ThinkPad E460	--	lenovo	DOC
Keyboard (USB)	SK-2015	--	HP	DOC
Mouse (USB)	MSU1465	--	HP	DOC
Earphone	--	--	--	DOC
Telephone	HCD129P/TSDL	--	SHENZHEN DAERXUN TECHNOLOGY CO.,LTD.	DOC

3.5. Test Conditions

Date of test：Oct.10, 2018-Oct.23, 2018
Date of EUT Receive：Sep.25, 2018
Temperature: 15-35 ℃
Relative Humidity: 30-60%

3.6. Modifications

No modification was made.

4. TEST EQUIPMENT USED

4.1. Test Equipment Used to Measure Conducted Disturbance

Table 5 Conducted Disturbance Test Equipment

No.	Equipment	Manufacturer	Model No.	LAST CALIB	Period
SB3319	EMI Test Receiver	R&S	ESCS30	Nov.28,2017	1 Year
SB4357	AMN	R&S	ENV216	Sep.04,2018	1 Year

4.2. Test Equipment Used to Measure Radiated Disturbance

Table 6 Radiated Disturbance Test Equipment

No.	Equipment	Manufacturer	Model No.	LAST CALIB	Period
SB3436	EMI Test Receiver	R&S	ESI26	Nov.28,2017	1 Year
SB3955	Trilog Broadband Antenna (30M-3GHz)	Schwarzbeck	VULB9163	Mar.05,2018	1 Year
SB9422/16	Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF907	Mar.08,2018	1 Year
SB8501/17	Preamplifier	Rohde & Schwarz	SCU-18	Mar.05, 2018	1 Year
SB8501/16	Preamplifier	Rohde & Schwarz	SCU-26	Mar.05, 2018	1 Year
SB9059	Preamplifier	Rohde & Schwarz	SCU-40	Aug.29,2018	1 Year
SB8501/11	Horn Antenna	ETS-Lindgren	3160-09	Mar.21,2017	3 Years
SB8501/12	Horn Antenna	ETS-Lindgren	3160-10	Mar.21,2017	3 Years

5. CONDUCTED DISTURBANCE TEST

5.1. Test Standard and Limit

5.1.1. Test Standard

FCC Part 15: Section 15.107

5.1.2. Test Limit

Table 7 Conducted Disturbance Test Limit (Class B)

Frequency	Power Port limits (dBμV)	
	Quasi-peak	Average
0.15MHz ~ 0.5MHz	66～56*	56~46*
0.5MHz ~ 5 MHz	56	46
5 MHz ~ 30MHz	60	50

* Decreasing linearly with logarithm of the frequency

5.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

5.4. Test Data

The emissions don't show in following result tables are more than 20dB below the limits, the test curves are shown in the next page.

Table 8 Conducted Disturbance Test Data at mains Port

Model No.: HH41NH
Test mode: Test Mode 1
Adaptor:1#

	Frequency (MHz)	Correction Factor (dB)	Quasi-Peak			Average		
			Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)
Line	0.638	9.8	30.8	40.6	56	23.9	33.7	46
	0.786	9.8	27.5	37.3	56	18.7	28.5	46
	1.794	9.8	29.0	38.8	56	17.1	26.9	46
	2.714	9.9	24.3	34.2	56	10.9	20.8	46
	8.852	10.0	35.0	45.0	60	21.4	31.4	50
	9.848	10.0	35.5	45.5	60	23.0	33.0	50
Neutral	0.558	9.8	24.2	34.0	56	20.8	30.6	46
	0.638	9.8	36.3	46.1	56	34.5	44.3	46
	0.670	9.8	28.7	38.5	56	27.6	37.4	46
	9.312	10.0	37.3	47.3	60	16.7	26.7	50
	10.028	9.9	39.3	49.2	60	22.0	31.9	50
	11.388	9.9	35.5	45.4	60	18.8	28.7	50

Model No.: HH41NH
Test mode: Test Mode 1
Adaptor:2#

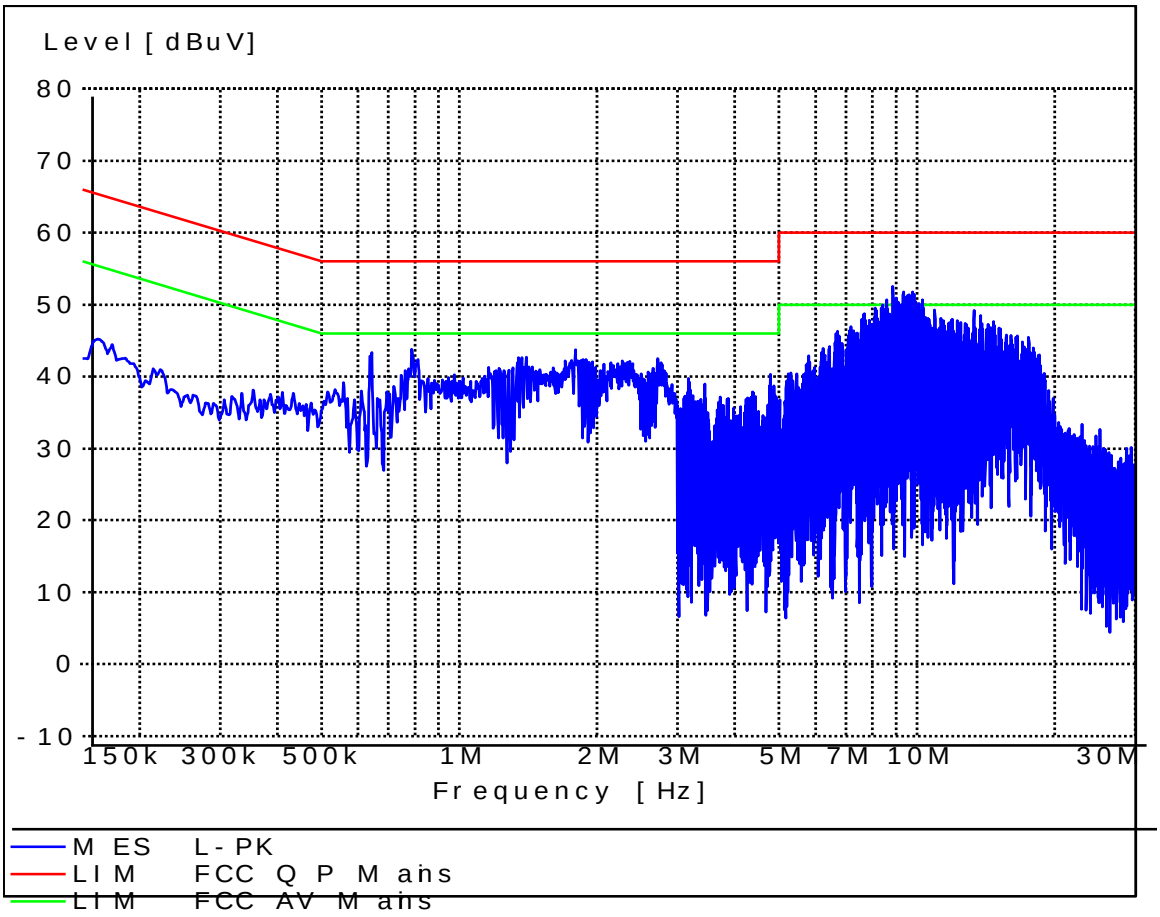
	Frequency (MHz)	Correction Factor (dB)	Quasi-Peak			Average		
			Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)
Line	0.410	9.7	24.4	34.1	57.6	18.5	28.2	47.6
	0.538	9.8	34.8	44.6	56	29.4	39.2	46
	0.750	9.8	23.2	33.0	56	17.3	27.1	46
	0.918	9.8	24.2	34.0	56	18.4	28.2	46
	1.470	9.8	23.8	33.6	56	17.5	27.3	46
	2.450	9.9	24.6	34.5	56	17.9	27.8	46
Neutral	0.538	9.8	31.2	41.0	56	21.1	30.9	46
	0.754	9.8	22.3	32.1	56	12.6	22.4	46
	0.918	9.8	20.5	30.3	56	11.9	21.7	46
	1.470	9.8	21.3	31.1	56	13.7	23.5	46
	2.450	9.9	23.6	33.5	56	10.9	20.8	46
	2.942	9.9	20.0	29.9	56	10.3	20.2	46

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)

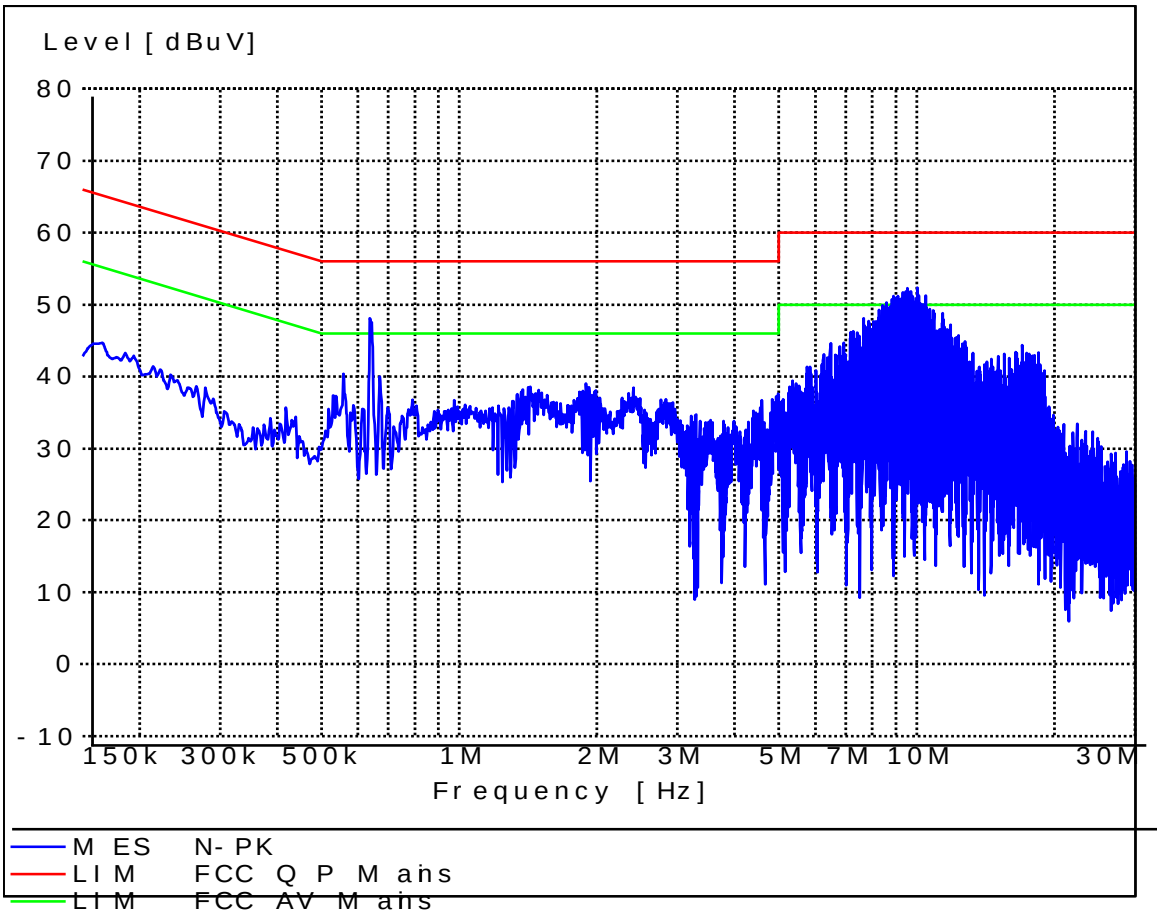
2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)

3. The other emission levels were are more than 20dB below the limits.

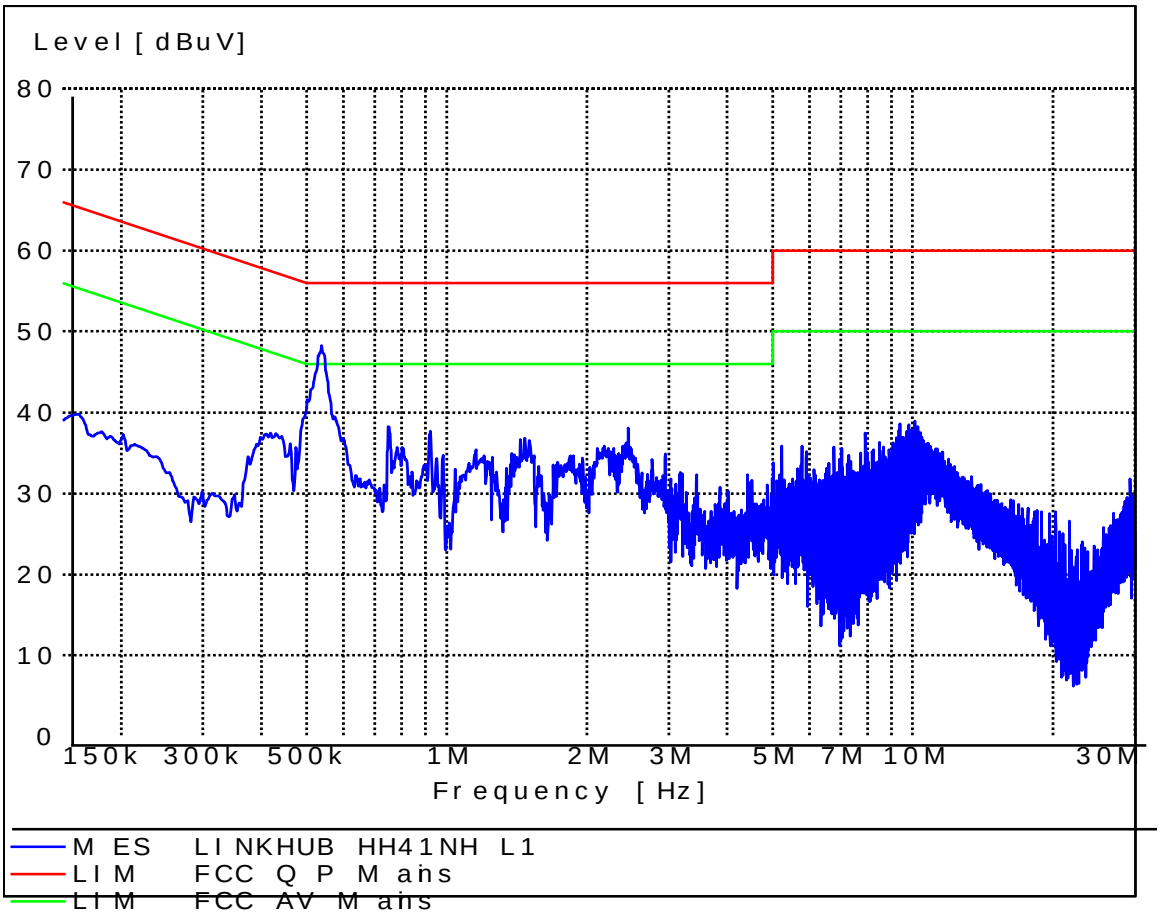
EUT: HH41NH
Operating Condition: Test mode 1
Test Specification: L
Comment: AC 120V/60Hz
Comment: Adaptor: 1#



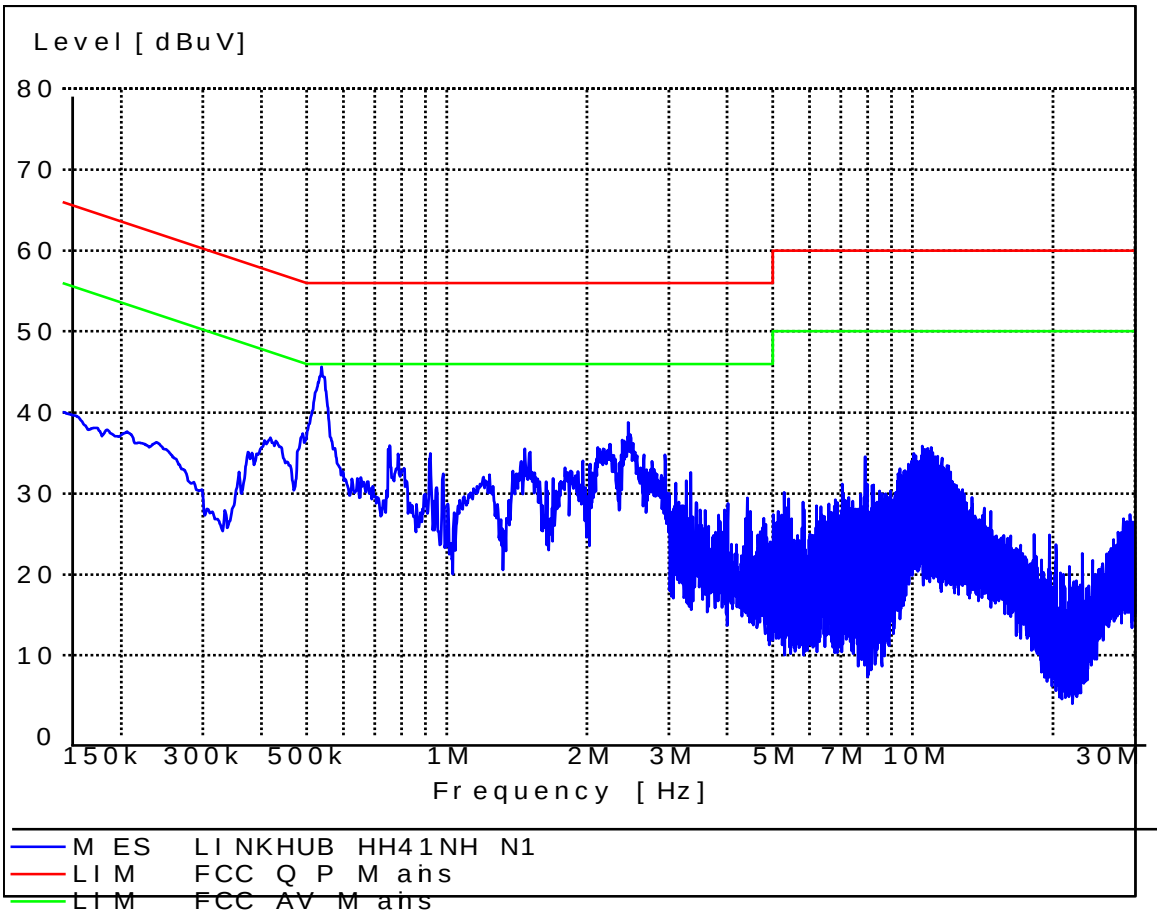
EUT: HH41NH
Operating Condition: Test mode 1
Test Specification: N
Comment: AC 120V/60Hz
Comment: Adaptor: 1#



EUT: HH41NH
Operating Condition: Test mode 1
Test Specification: L
Comment: AC 120V/60Hz
Comment: Adaptor: 2#



EUT: HH41NH
Operating Condition: Test mode 1
Test Specification: N
Comment: AC 120V/60Hz
Comment: Adaptor: 2#



6. RADIATION DISTURBANCE TEST

6.1. Test Standard and Limit

6.1.1. Test Standard

FCC Part 15: Section 15.109

6.1.2. Test Limit

Table 9 Radiation Disturbance Test Limit for FCC (Class B) (9 KHz-1GHz)

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
960~1000	500	3

Table 10 Radiation Disturbance Test Limit for FCC (Class B) (Above 1G)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

* The lower limit shall apply at the transition frequency.
* The test distance is 3m.

6.2. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set **3 meters** away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.
RBW = 100 kHz (less than or equal to 1 GHz); 1 MHz (above 1 GHz)
VBW ≥ 3 x RBW
Detector = Peak & Quasi-Peak (frequency range 30 MHz to 1 GHz);
Peak & Average (frequency range above 1 GHz);
Changing VBW to 10 Hz for average measurement
The use of a higher-than-specified video bandwidth produces a conservative measurement result.

6.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

6.4. Test Data

The emissions don’t show in following result tables are more than 20dB below the limits, the test curves are shown in the next page.
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the re sult which was 20dB lower than the limit line per 15.31(o) was not reported.

Table 11 Radiated Disturbance Test Data

Model No.: HH41NH

Test mode: Test Mode 1

Adaptor:1#

Frequency (MHz)	Cable Loss +preamp(dB)	Antenna Factor (dB)	Readings (dBμV/m)	Level (dBμV/m)	Polarity (H/V)	Turntable Angle(deg)	Antenna Height (cm)	Limits(dBμV/m)	Margin (dB)
37.538	0.6	12.3	19.6	32.5	V	296	100	40	7.5
43.802	0.7	13.6	16.5	30.8	V	17	100	40	9.2
53.568	0.7	13.3	13.8	27.8	V	188	100	40	12.2
88.876	1.1	10.3	15.0	26.4	V	94	100	43.5	17.1
163.958	1.5	8.7	19.5	29.7	V	312	100	43.5	13.8
791.819	3.6	18.8	8.1	30.5	V	256	100	46	15.5
56.014	0.9	13.0	9.4	23.3	H	32	100	40	16.7
68.999	0.9	10.7	13.5	25.1	H	354	100	40	14.9
155.610	1.4	8.3	22.3	32.0	H	98	100	43.5	11.5
163.945	1.5	8.7	21.9	32.1	H	12	100	43.5	11.4
499.996	2.7	16.1	16.7	35.5	H	324	100	46	10.5
749.996	3.5	18.8	12.0	34.3	H	78	100	46	11.7
PK									
1120.009	-41.1	24.4	68.2	51.5	V	47	100	74	22.5
1599.359	-40.6	25.1	67.6	52.1	V	352	100	74	21.9
2249.336	-40.5	28.3	63.0	50.8	V	96	100	74	23.2
2399.684	-40.2	28.3	63.6	51.7	V	326	100	74	22.3
1999.189	-40.4	26.9	62.8	49.3	V	263	100	74	24.7
3193.825	-39.0	30.4	58.7	50.1	V	314	100	74	23.9
1047.698	-41.2	24.4	60.4	43.6	H	32	100	74	30.4
1399.432	-40.8	24.3	64.5	48.0	H	326	100	74	26.0
1440.832	-40.8	25.1	60.8	45.1	H	263	100	74	28.9
2399.570	-40.2	28.3	62.3	50.4	H	78	100	74	23.6
3176.934	-39.0	30.4	53.9	45.3	H	182	100	74	28.7
4212.043	-39.2	33.6	54.8	49.2	H	42	100	74	24.8
AV									
1120.009	-41.1	24.4	38.8	22.1	V	47	100	54	31.9
1599.359	-40.6	25.1	39.5	24.0	V	352	100	54	30.0
2249.336	-40.5	28.3	35.4	23.2	V	96	100	54	30.8
2399.684	-40.2	28.3	37.0	25.1	V	326	100	54	28.9
1999.189	-40.4	26.9	36.1	22.6	V	263	100	54	31.4
3193.825	-39.0	30.4	31.6	23.0	V	314	100	54	31.0
1047.698	-41.2	24.4	34.9	18.1	H	32	100	54	35.9
1399.432	-40.8	24.3	35.9	19.4	H	326	100	54	34.6
1440.832	-40.8	25.1	33.6	17.9	H	263	100	54	36.1
2399.570	-40.2	28.3	32.9	21.0	H	78	100	54	33.0
3176.934	-39.0	30.4	28.6	20.0	H	182	100	54	34.0
4212.043	-39.2	33.6	25.4	19.8	H	42	100	54	34.2

Model No.: HH41NH

Test mode: Test Mode 1

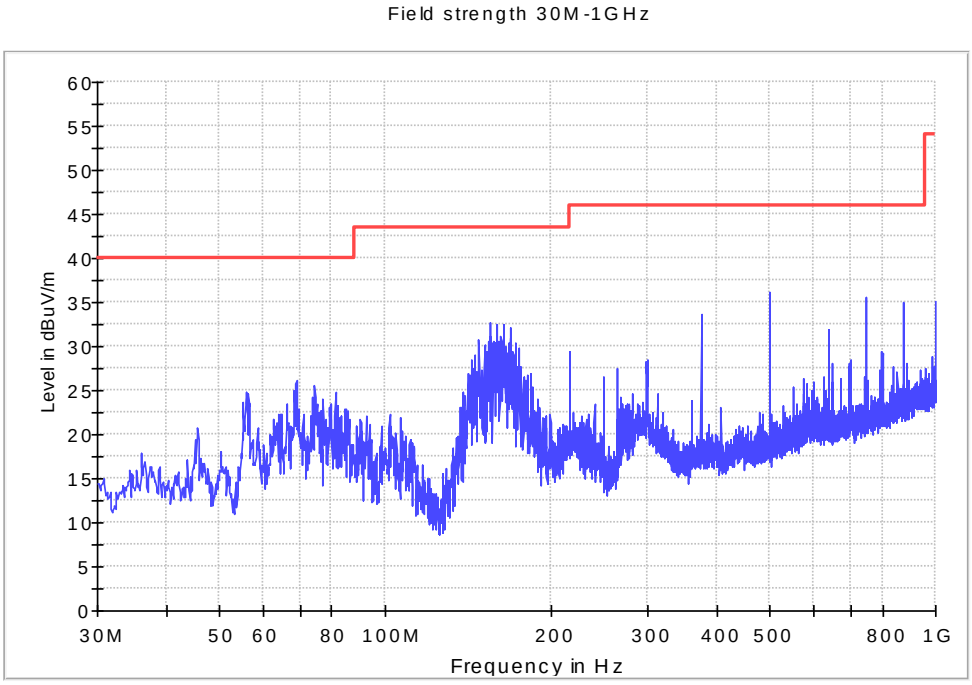
Adaptor:2#

Frequency (MHz)	Cable Loss +preamp(dB)	Antenna Factor (dB)	Readings (dBμV/m)	Level (dBμV/m)	Polarity (H/V)	Turntable Angle(deg)	Antenna Height (cm)	Limits(dBμV/m)	Margin (dB)
37.760	0.7	12.3	15.1	28.1	V	84	100	40	11.9
43.459	0.7	13.6	15.4	29.7	V	321	100	40	10.3
66.496	0.8	10.7	17.3	28.8	V	99	100	40	11.2
88.806	1.1	10.3	15.9	27.3	V	263	100	43.5	16.2
197.204	1.7	10.6	16.3	28.6	V	47	100	43.5	14.9
499.964	2.7	16.1	19.5	38.3	V	352	100	46	7.7
77.166	1.0	7.8	21.6	30.4	H	18	100	40	9.6
81.167	1.0	8.5	22.4	31.9	H	357	100	40	8.1
120.938	1.3	10.5	11.9	23.7	H	79	100	43.5	19.8
168.710	1.5	8.7	15.6	25.8	H	322	100	43.5	17.7
249.948	1.9	12.1	10.9	24.9	H	57	100	46	21.1
374.956	2.3	14.3	12.4	29.0	H	253	100	46	17.0
PK									
1215.478	-40.9	24.3	55.9	39.3	V	293	100	74	34.7
1796.520	-40.5	26.7	60.4	46.6	V	44	100	74	27.4
2092.520	-40.4	28.6	54.1	42.3	V	347	100	74	31.7
1498.480	-40.8	25.1	61.3	45.6	V	58	100	74	28.4
2990.320	-39.3	29.4	54.8	44.9	V	321	100	74	29.1
4492.780	-39.3	33.7	50.0	44.4	V	87	100	74	29.6
1498.660	-40.8	25.1	54.8	39.1	H	325	100	74	34.9
1797.060	-40.5	26.7	62.8	49.0	H	98	100	74	25.0
2337.500	-40.1	28.3	58.2	46.4	H	339	100	74	27.6
3189.480	-38.9	30.4	50.9	42.4	H	61	100	74	31.6
4216.620	-39.2	33.6	51.8	46.2	H	260	100	74	27.8
4493.580	-39.3	33.7	50.9	45.3	H	37	100	74	28.7
AV									
1215.478	-40.9	24.3	39.0	22.4	V	293	100	54	31.6
1796.520	-40.5	26.7	39.5	25.7	V	44	100	54	28.3
2092.520	-40.4	28.6	40.6	28.8	V	347	100	54	25.2
1498.480	-40.8	25.1	48.2	32.5	V	58	100	54	21.5
2990.320	-39.3	29.4	39.8	29.9	V	321	100	54	24.1
4492.780	-39.3	33.7	36.7	31.1	V	87	100	54	22.9
1498.660	-40.8	25.1	40.9	25.2	H	325	100	54	28.8
1797.060	-40.5	26.7	37.7	23.9	H	98	100	54	30.1
2337.500	-40.1	28.3	41.2	29.4	H	339	100	54	24.6
3189.480	-38.9	30.4	36.7	28.2	H	61	100	54	25.8
4216.620	-39.2	33.6	37.9	32.3	H	260	100	54	21.7
4493.580	-39.3	33.7	36.8	31.2	H	37	100	54	22.8

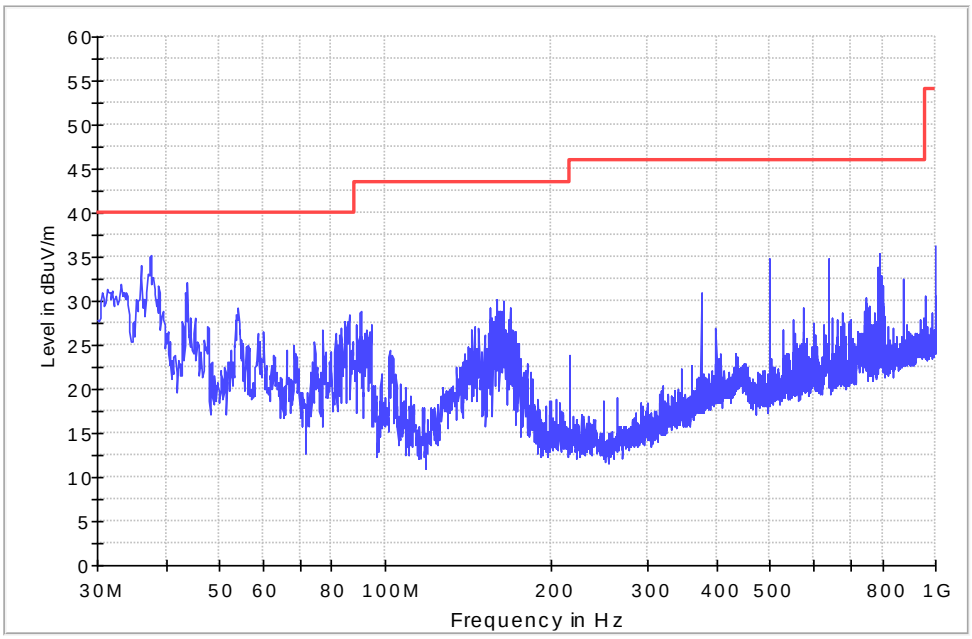
Emission level (dBuV)=Read Value(dBuV/m) + Antenna Factor(dB)+ Cable Loss +preamp(dB)

Radiated Emission

EUT Name: HH41NH
Operating Condition: Test Mode 1
Test site: SMQ NETC EMC Lab.3m Chamber
Antenna Position: Horizontal & Vertical
Comment: AC 120V60Hz
Comment: Adaptor: 1#



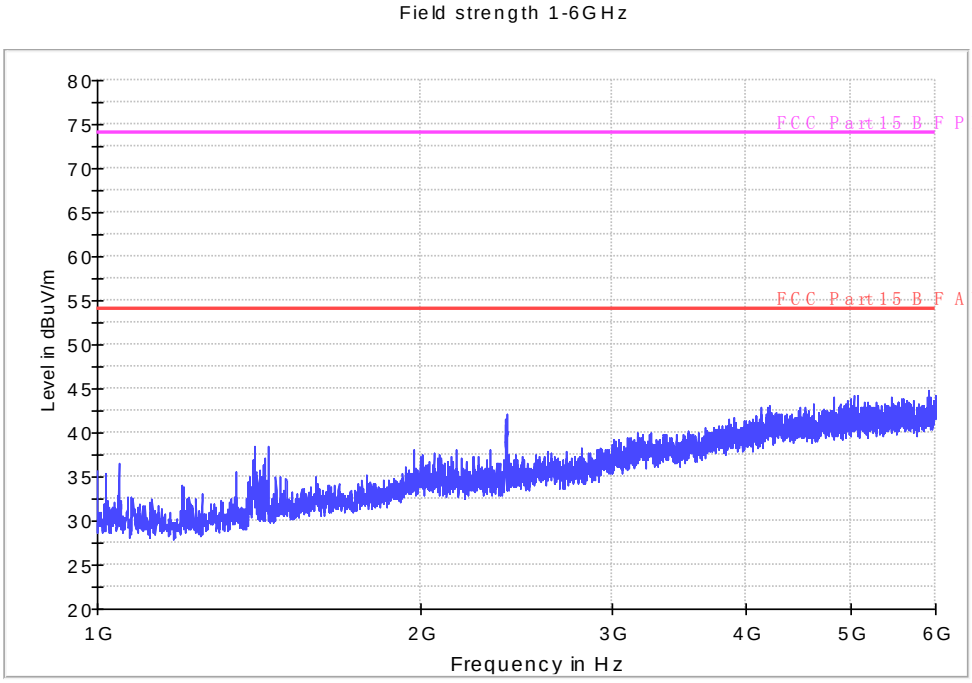
(Horizontal)



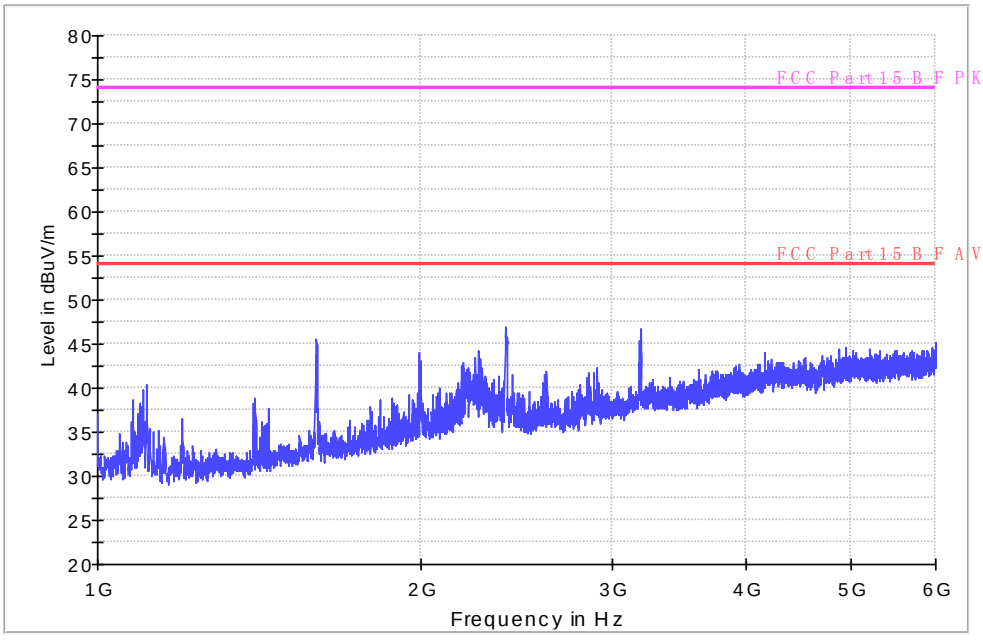
(Vertical)

Radiated Emission

EUT Name: HH41NH
Operating Condition: Test Mode 1
Test site: SMQ NETC EMC Lab.3m Chamber
Antenna Position: Horizontal & Vertical
Comment: AC 120V60Hz
Comment: Adaptor: 1#



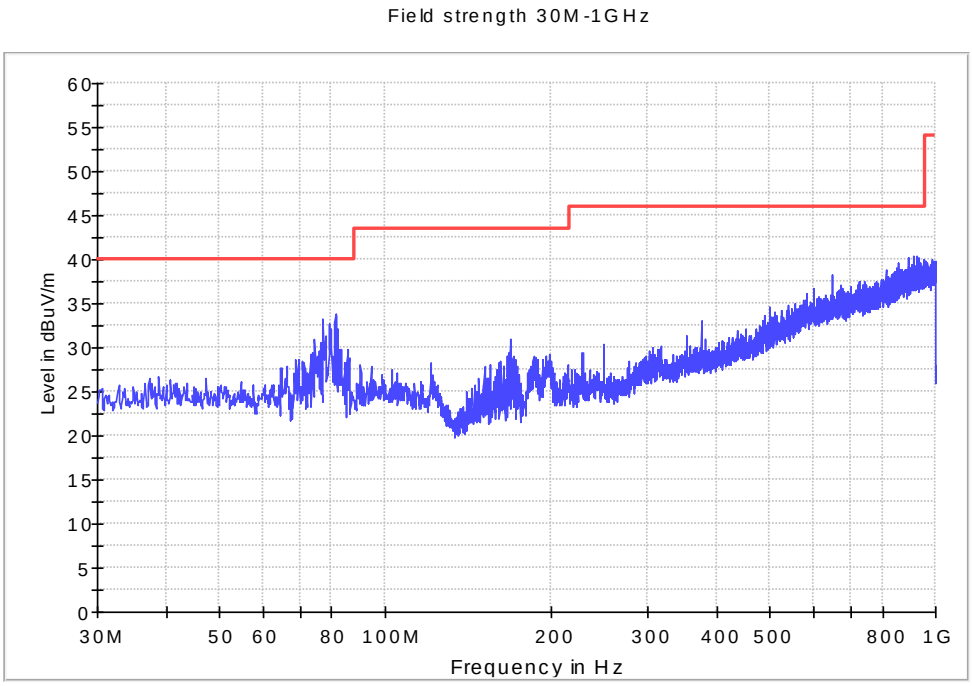
(Horizontal)



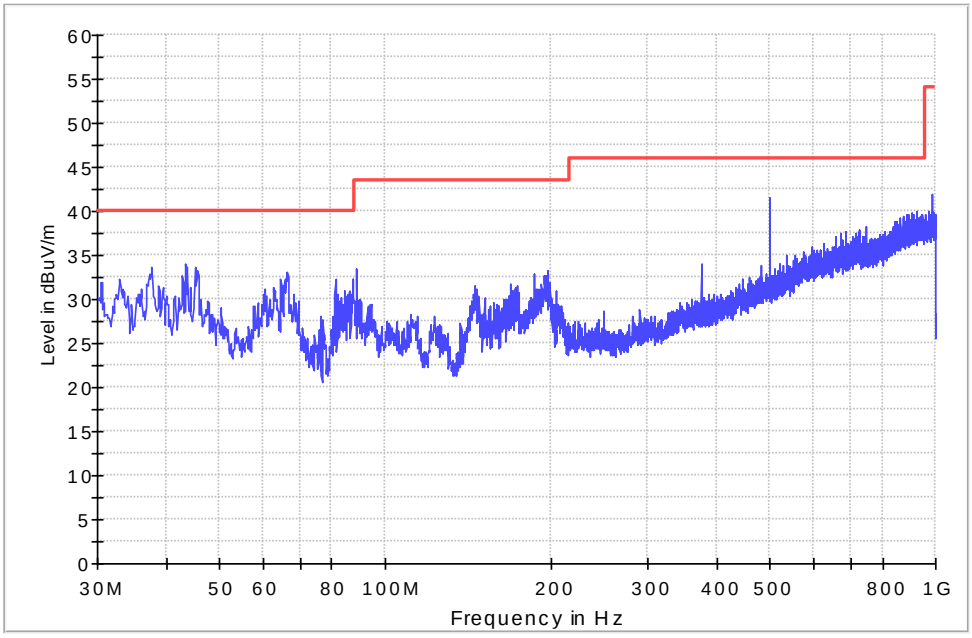
(Vertical)

Radiated Emission

EUT Name: HH41NH
Operating Condition: Test Mode 1
Test site: SMQ NETC EMC Lab.3m Chamber
Antenna Position: Horizontal & Vertical
Comment: AC 120V60Hz
Comment: Adaptor: 2#



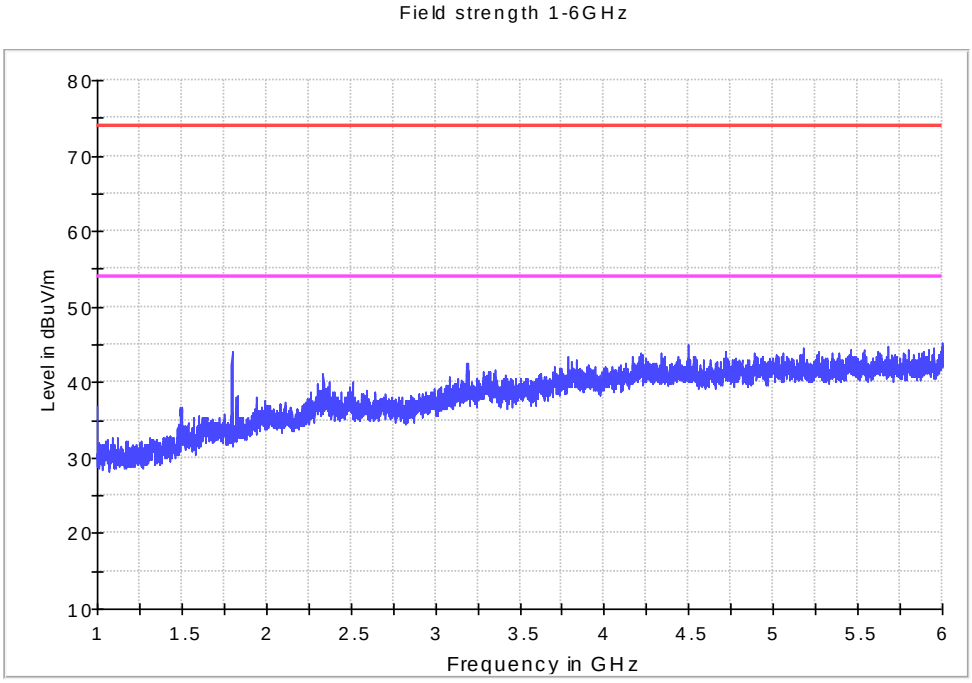
(Horizontal)



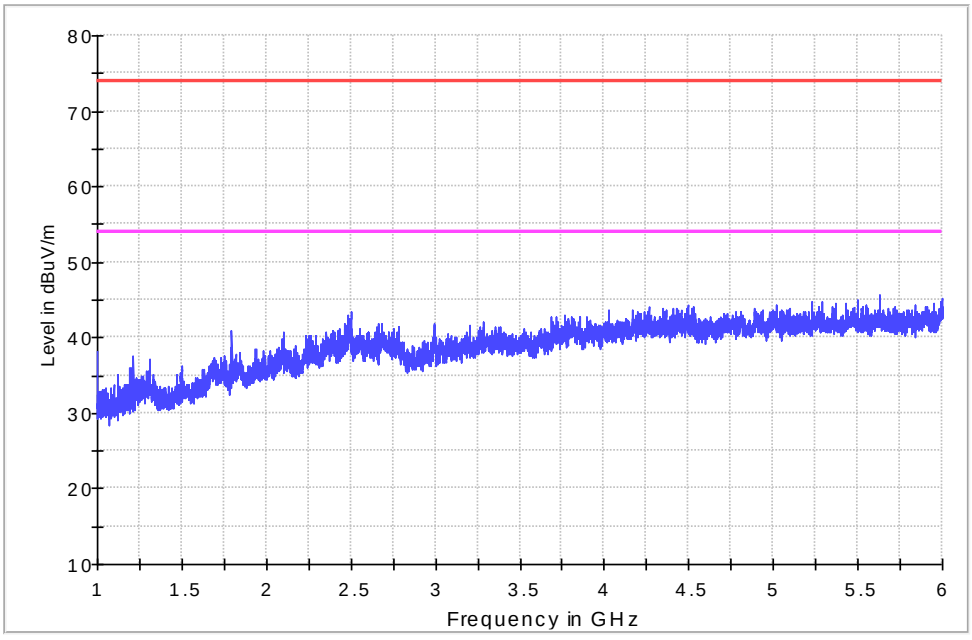
(Vertical)

Radiated Emission

EUT Name: HH41NH
Operating Condition: Test Mode 1
Test site: SMQ NETC EMC Lab.3m Chamber
Antenna Position: Horizontal & Vertical
Comment: AC 120V60Hz
Comment: Adaptor: 2#



(Horizontal)



(Vertical)

Radiated Emission

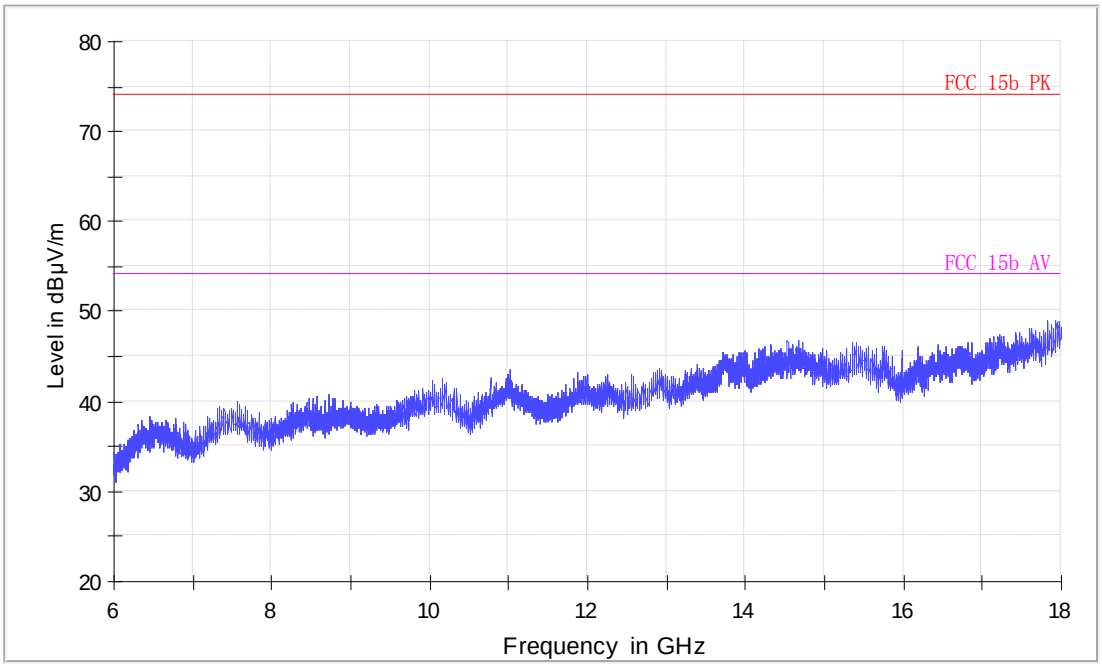
EUT Information

EUT Model name:	HH41NH
Operater Mode:	Test Mode 1
Comment:	

Common Information

Test Description:	SMQ NETC EMC Lab.3m Chamber
Customer	
Antenna Position:	Horizontal
Operator Name:	
Comment1:	AC 120V/60Hz
Comment2:	

Copy (2) of FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Radiated Emission

EUT Information

EUT Model name:	HH41NH
Operater Mode:	Test Mode 1
Comment:	

Common Information

Test Description:	SMQ NETC EMC Lab.3m Chamber
Customer	
Antenna Position:	Vertical
Operator Name:	
Comment1:	AC 120V/60Hz
Comment2:	

Copy (2) of FCC Electric Field Strength 1-18GHz operate on 2.4GHz