

TEST REPORT No.I23N00436-EMC

for

TCL Communication Ltd.

LINKHUB

Model Name: HH40L2

With

Hardware Version: TZ7.823.397

Software Version: HH40L2.1.01

FCC ID:2ACCJB202

Issued Date: 2023-04-18

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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REPORT HISTORY

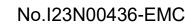
Report Number	Revision	Description	Issue Date
I23N00436-EMC	Rev.0	1st edition	2023-04-18

Note: the latest revision of the test report supersedes all previous version.



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1. SUMMARY OF TEST REPORT

1.1. Test Items

Description	LINKHUB
Model Name	HH40L2
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

1.2. Test Standards

FCC Part 15, Subpart B (10-1-2021 Edition); ANSI C63.4-2014.

1.3. Test Result

Total test 2 items, pass 2 items. Please refer to "6.2 Test Results".

1.4. Testing Location

Address:

EMC Lab,Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, China

1.5. Project data

Testing Start Date: 2023-04-01

Testing End Date: 2023-04-09

1.6. Signature

黄山的

Huang Kaiyang (Prepared this test report)

Cao Junfei (Approved this test report)

3 BRP

Huang Yuqing (Reviewed this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

Company Name:	TCL Communication Ltd.	
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Tel.	0086-755-3661 1621	
Fax	0086-755-36612000-81722	
2.2. Manufacturer	Information	
Company Name:	TCL Communication Ltd.	
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science	
Audiess.	Park, Shatin, NT, Hong Kong	

Contact	Annie Jiang
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- Tel. 0086-755-3661 1621
- Fax 0086-755-36612000-81722



3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

<u>(AE)</u>

3.1. About EUT

Description	LINKHUB
Model Name	HH40L2
FCC ID	2ACCJB202
Condition of EUT as received	No obvious damage in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Receive Date
UT03aa	354205410002643	TZ7.823.397	HH40L2.1.01	2023-03-27
UT04aa	864255060100000	TZ7.823.397	HH40L2.1.01	2023-03-27
*EUT ID: is u	sed to identify the test sam	ole in the lab internally.		

3.3. Internal Identification of AE

AE ID*	Description
AE1	Battery
AE2	Charger

AE1

Model	Z2000	
Manufacturer	ShenzhenAerospaceElectronic Co.,Ltd	
Capacity	2000mAh	
Nominal Voltage	7.4 V	
AE2-1		
Model	1-CHUSB102-131	
Manufacturer	Huizhou Puan electronics Co.,Ltd	
AE2-2		
Model	1-CHUSB102-131	
Manufacturer	Huizhou Puan electronics Co.,Ltd	
AE2-3		
Model	1-CHUKB102-132	
Manufacturer	Huizhou Puan electronics Co.,Ltd	
* AE ID: is used to identify the test sample in the lab internally.		
AE: ancillary equipment		
AE2: The circuit boards of AE2-1, AE2-2 and AE2-3 are the same.		



3.4. EUT Set-ups

EUT set-up No.

Set.1

Combination of EUT and AE

Remarks

EUT+AE1-1+AE2-1+PC





3.5. General Description

The Equipment Under Test (EUT) is a model of LINKHUB with internal antenna.

It supports GSM 900/1800/1900MHz, LTE Bands 5/41.

It has Wi-Fi and Wired network functions.

It consists of normal options: Battery, Charger.

Manual and specifications of the EUT were provided to fulfill the test.

Samples (EUT+AE) undergoing test were selected by the Client. Relevant information is provided by the client.



4. <u>REFERENCE DOCUMENTS</u>

4.1. <u>Reference Documents for Testing</u>

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15,	Padia fraguancy deviaca	(10-1-2021
Subpart B	Radio frequency devices	Edition)
	Methods of Measurement of Radio-Noise Emissions from	
ANSI C63.4	Low-Voltage Electrical and Electronic Equipment in the	2014
	Range of 9 kHz to 40 GHz	



5. LABORATORY ENVIRONMENT

Anechoic chamber (FACT3-2.0) did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 35 °C	
Relative humidity	Min. = 20 %, Max. = 75 %	
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB	
Electrical insulation	> 2MΩ	
Ground system resistance	< 4Ω	
Normalised site attenuation (NSA)	$< \pm 4$ dB, 3 m distance, from 30 to 1000 MHz	
Voltage Standing Wave Ratio	\leq 6 dB, from 1 to 18 GHz, 3 m distance	
(VSWR)		
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz	
Shielded room did not exceed following	limits along the EMC testing:	
Temperature	Min. = 15 °C, Max. = 35 °C	
Relative humidity	Min. =20 %, Max. = 75 %	
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB	
Electrical insulation	> 2MΩ	
Ground system resistance	< 4Ω	



6. SUMMARY OF TEST RESULTS

6.1. <u>Testing Environment</u>

Normal Temperature:	15~35 ℃
Relative Humidity:	20~75%
Atmospheric pressure	86~106kPa

6.2. Summary of Measurement Results

Abbreviations used in this clause:	
Р	Pass
NA	Not applicable
F	Fail

Items	Test Name	Clause in FCC/IC rules	Section in this report	Verdict
1	Radiated Emission	15.109(a)/	A.1	Р
•		Section 6.2	7.1	•
2	Conducted Emission	15.107(a)/	A.2	Þ
2		Section 6.1	A.Z	Г

6.3. Statement

6.3.1 Statements of conformity

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.



7. MEASUREMENT UNCERTAINTY

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	4.86dB(<i>k</i> =2)
	1GHz-18GHz	4.82dB(<i>k</i> =2)
Conducted Emission	150kHz-30MHz	2.62dB(<i>k</i> =2)

8. MEASURING APPARATUS UTILIZED

No.	Name	Model	Serial	Manufacturer	Calibration	Calibration
			Number		Due date	Period
1.	Test Receiver	ESR7	101676	R&S	2023.11.23	1 year
2.	Test Receiver	ESCI	100702	R&S	2024.01.11	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2024.01.11	1 year
4.	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024.05.27	3 years
5.	Horn Antenna	3117	00066577	ETS-Lindgren	2025.04.17	3 years
6.	LISN	ENV216	102067	R&S	2023.09.06	1 year
7.	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2023.05.29	2 years
8.	Software	EMC32	V10.50.40	R&S	/	/
9.	Universal Radio Communication Tester	CMU200	114545	R&S	2024.01.11	1 year
10.	Universal Radio Communication Tester	CMW500	152499	R&S	2023.07.14	1 year



9. TEST ACCESSORY UTILIZED

No.	Name	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	PC	ThinkPad T480	PF-13LW0C	Lenovo	/	/
2.	Printer	P1008	VNF6C12491	HP	/	/
3.	Mouse	MOEUUOA	44NY517	Lenovo	/	/





ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§15.109(a)) Reference

FCC: Part 15.109(a)

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator at a distance of 3 meters or 1 meter is tested. Tested in accordance with the procedures of ANSI C63.4 -2014, section 8.3. The EUT was placed on a non-conductive table. Below 18GHz the measurement antenna was placed at a distance of 3 meters from the EUT. Above 18GHz the measurement antenna was placed at a distance of 1 meters from the EUT. (According to Part 15.31(f)(1), 1m limit is calculated by extrapolation factor of 20 dB/decade) During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

A.1.2 EUT Operating Mode:

Wired network function: A laptop is connected to EUT by unshielded Twisted Pair. The EUT allocate an IP address to this laptop, and start a PING program to establish a communication link between EUT and the laptop.

GSM receiver: The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

LTE receiver: The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

This device contains the receivers which tune and operate between 30MHz-960MHz in the following bands:LTE Band 5.

The EUT was tested while operating in licensed band receiver mode. All licensed band receivers that tune in the range of 30MHz-960MHz, as listed in Section 3.1, are investigated. Only the worst case emissions are reported.

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.



A.1.3 Measurement Limit

Limit from	Part	15.109(a)
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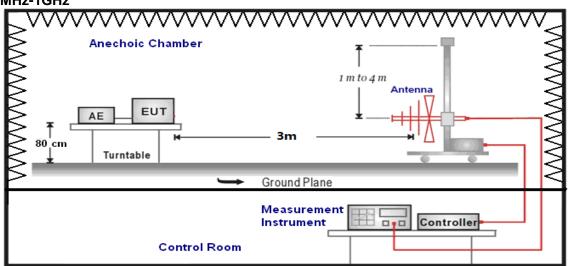
Frequency range	Field strength limit (µV/m)			
(MHz)	Quasi-peak	Average	Peak	
30-88	100			
88-216	150			
216-960	200			
960-1000	500			
>1000		500	5000	

*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

A.1.4 Test Condition

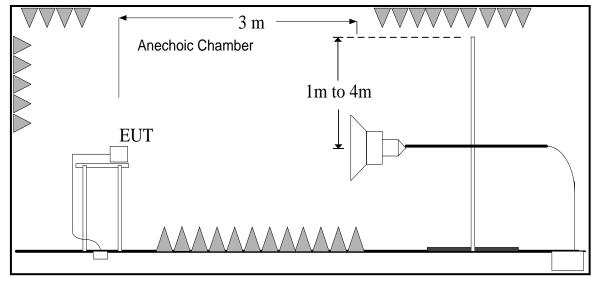
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

A.1.5 Test set-up: 30MHz-1GHz





1GHz-40GHz



A.1.6 Measurement Results

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

 $Result = P_{Mea} + A_{Rpl} = P_{Mea} + G_{A} + G_{PL}$

Where

G_A: Antenna factor of receive antenna

G_{PL}:PathLoss

P_{Mea}: Measurement result on receiver.

Result:Quasi-Peak(dBµV/m) /Average(dBµV/m)/Peak(dBµV/m)

Note: the result contains vertical part and Horizontal part

Wired network function:

Frequency range	Quasi-Peak	Result (dBµV/m)	Conclusion
(MHz)	Limit (dBµV/m)	UT04aa/Set.1	
30-88	40.00		
88-216	43.52	See Figure A 1.1	Р
216-960	46.02	See Figure A.1.1.	Р
960-1000	54.00		

Frequency range	Average	Peak	Result (dBµV/m)	Conclusion
(MHz)	Limit (dBµV/m)	Limit (dBµV/m)	UT04aa/Set.1	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.2.	Р



LTE receiver Band 5

Frequency range	Quasi-Peak	Result (dBµV/m)	Conclusion
(MHz)	Limit (dBµV/m)	UT04aa/Set.1	
30-88	40.00		
88-216	43.52	See Figure A 1.2	Р
216-960	46.02	See Figure A.1.3.	F
960-1000	54.00		

Frequency range	Average	Peak	Result (dBµV/m)	Conclusion
(MHz)	Limit (dBµV/m)	Limit (dBµV/m)	UT04aa/Set.1	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.4.	Р



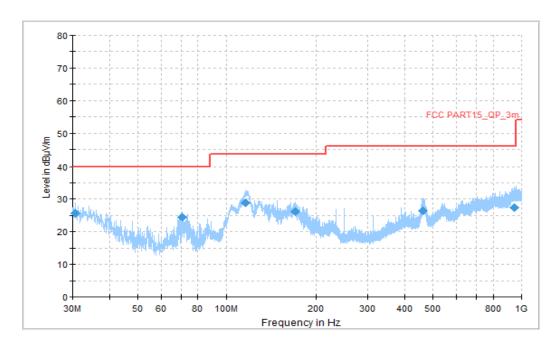


Figure A.1.1.	Radiated Emission (Wired network function, 30MHz to 1GHz)
Final_Results	

Frequency	QuasiPeak	Limit	Margin	Pol	ARpl	P _{Mea}
(MHz)	(dBµV/m)	(dBµV/m)	(dB)		(dB/m)	(dBµV)
30.592778	25.69	40.00	14.31	V	-12	37.69
70.847778	24.58	40.00	15.42	V	-20	44.58
116.006667	28.98	43.52	14.54	V	-19	47.98
169.626111	26.30	43.52	17.22	V	-17	43.30
463.536111	26.37	46.02	19.65	Н	-6	32.37
944.817778	27.45	46.02	18.57	Η	3	24.45



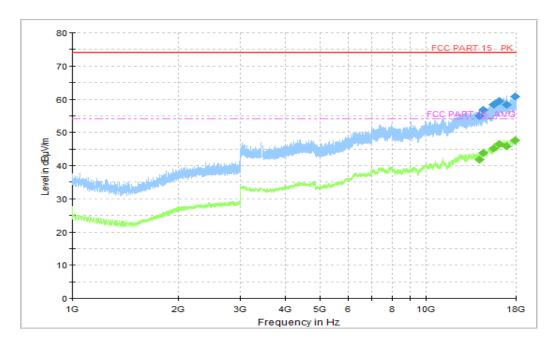


Figure A.1.2. Radiated Emission (Wired network function, 1GHz to 18GHz) Final_Results_PK

Frequency(MHz)	Peak	Limit	Margin(dB)	Polarity	ARpl	PMea
Trequency(IMTZ)	(dBµV/m)	(dBµV/m)	Margin(db)	Tolanty	(dB/m)	(dBµV)
14143.250000	54.96	74.00	19.04	Н	18	36.96
14566.250000	56.77	74.00	17.23	Н	19	37.77
15575.250000	58.28	74.00	15.72	V	20	38.28
16166.000000	59.47	74.00	14.53	V	22	37.47
16906.000000	58.25	74.00	15.75	V	22	36.25
17909.500000	60.75	74.00	13.25	Н	25	35.75
Final_Results_AVG	6					
	Average	Limit		Delevity	ARpl	P _{Mea}
Frequency(MHz)	(dBµV/m)	(dBµV/m)	Margin(dB)	Polarity	(dB/m)	(dBµV)
14143.250000	41.74	54.00	12.26	Н	18	23.74
14566.250000	43.85	54.00	10.15	Н	19	24.85
15575.250000	45.07	54.00	8.93	V	20	25.07
16166.000000	46.43	54.00	7.57	V	22	24.43
16906.000000	45.87	54.00	8.13	V	22	23.87
17909.500000	47.52	54.00	6.48	Н	25	22.52



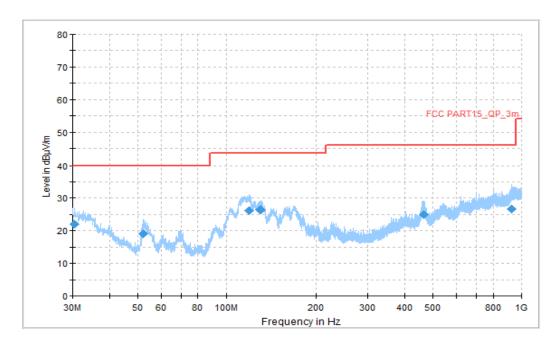


Figure A.1.3.	Radiated Emission (LTE receiver Band 5, 30MHz to 1GHz)
Final_Results	

Frequency	QuasiPeak	Limit	Margin	Pol	ARpl	P _{Mea}
(MHz)	(dBµV/m)	(dBµV/m)	(dB)		(dB/m)	(dBµV)
30.377222	22.05	40.00	17.95	V	-12	34.05
52.310000	19.06	40.00	20.94	V	-21	40.06
119.617222	26.14	43.52	17.38	V	-20	46.14
130.395000	26.33	43.52	17.19	V	-19	45.33
466.122778	25.04	46.02	20.98	Н	-6	31.04
922.938889	26.77	46.02	19.25	Н	2	24.77



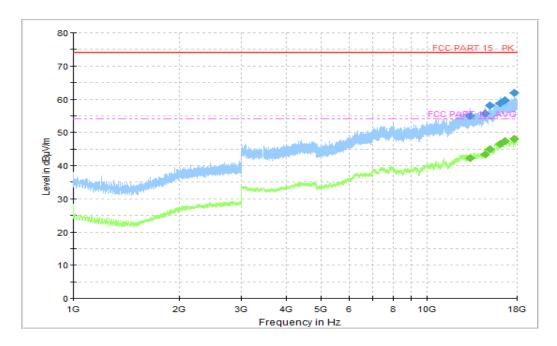


Figure A.1.4.	Radiated Emission (LTE receiver Band 5, 1GHz to 18GHz)
Final_Results_PK	

Frequency(MHz)	Peak	Limit	Margin(dB)	Polarity	ARpl	P _{Mea}
	(dBµV/m)	(dBµV/m)	Margin(ub)	Folanty	(dB/m)	(dBµV)
13277.000000	55.03	74.00	18.97	Н	18	37.03
14601.750000	55.67	74.00	18.33	Н	19	36.67
15103.750000	58.13	74.00	15.87	V	20	38.13
16157.250000	58.70	74.00	15.30	V	22	36.70
16610.750000	59.70	74.00	14.30	Н	23	36.7
17702.250000	61.86	74.00	12.14	Н	24	37.86
Final_Results_AVG	ì					
	Average	Limit	Margin(dD)	Polarity	ARpl	P_{Mea}
Frequency(MHz)	(dBµV/m)	(dBµV/m)	Margin(dB)	Polanty	(dB/m)	(dBµV)
13277.000000	42.32	54.00	11.68	Н	18	24.32
14601.750000	43.45	54.00	10.55	Н	19	24.45
15103.750000	44.83	54.00	9.17	V	20	24.83
16157.250000	46.53	54.00	7.47	V	22	24.53
16610.750000	47.35	54.00	6.65	Н	23	24.35
17702.250000	47.97	54.00	6.03	Н	24	23.97



A.2 Conducted Emission (§15.107(a)) Reference

FCC: Part 15.107(a)

A.2.1 Method of measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 -2014, section 7.3.

A.2.2 EUT Operating Mode:

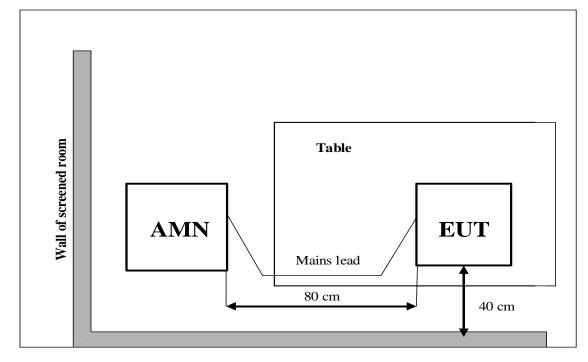
Wired network function: A laptop is connected to EUT by unshielded Twisted Pair. The EUT allocate an IP address to this laptop, and start a PING program to establish a communication link between EUT and the laptop.

A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dBµV)				
	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency					



A.2.4Test set-up:



A.2.5 Test Condition in charging mode

Voltage (V)	Frequency (Hz)
120	60
240	60

RBW	Sweep Time(s)
9kHz	1

A.2.6 Measurement Results

QuasiPeak(dBµV) /Average(dBµV) =PMea+Corr Where

Corr: PathLoss + Voltage Division Factor

PMea: Measurement result on receiver.

Wired network function

AC Input Port/ Voltage: 120V/60Hz

Frequency range	Quasi-peak	Average Limit	Result (dBµV)	Conclusion
(MHz)	Limit (dBµV)	(dBµV)	UT03aa/Set.1	Conclusion
0.15 to 0.5	66 to 56	56 to 46		
0.5 to 5	56	46	See Figure A.2.1.	Р
5 to 30	60	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.



Wired network function

AC Input Port/ Voltage: 240V/60Hz

Frequency range	Quasi-peak	Average Limit	Result (dBµV)	Conclusion	
(MHz)	Limit (dBµV)	(dBµV)	UT03aa/Set.1		
0.15 to 0.5	66 to 56	56 to 46			
0.5 to 5	56	46	See Figure A.2.2.	Р	
5 to 30	60	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to					
0.5 MHz.					



AC Input Port/ Voltage: 120V/60Hz

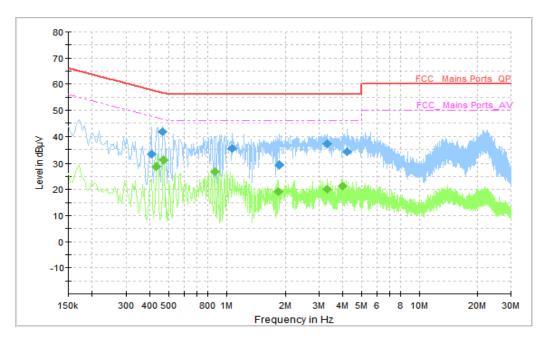


Figure A.2.1. Conducted Emission (Camera)

Final_Result_QP	K					
Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.406000	33.19	57.73	24.54	L1	10	23.19
0.466000	41.67	56.59	14.91	L1	10	31.67
1.074000	35.31	56.00	20.69	L1	10	25.31
1.858000	29.36	56.00	26.64	N	10	19.36
3.302000	37.29	56.00	18.71	N	10	27.29
4.214000	34.22	56.00	21.78	N	10	24.22
Final_Result_AV	G	1	•		•	-
Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.430000	28.76	47.25	18.50	L1	10	18.76
0.470000	31.18	46.51	15.34	L1	10	21.18
0.870000	26.70	46.00	19.30	L1	10	16.70
1.846000	19.14	46.00	26.86	N	10	9.14
3.302000	19.99	46.00	26.01	N	10	9.99
3.998000	21.19	46.00	24.81	N	10	11.19



AC Input Port/ Voltage:240V/60Hz

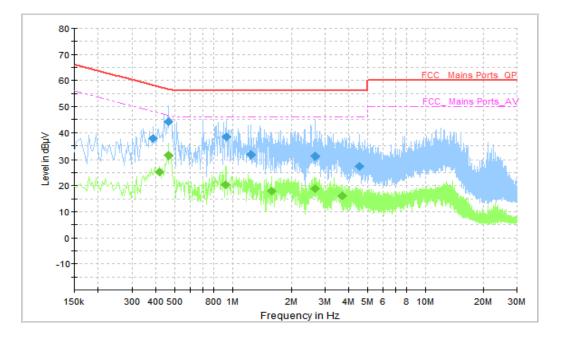


Figure A.2.2.	Conducted Emission (Video Player)
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Final_Result_QPI	K							
Frequency	QuasiPeak	Limit	Margin	Line	Corr.	P _{Mea}		
(MHz)	(dBµV)	(dBµV)	(dB)		(dB)	(dBµV)		
0.386000	37.81	58.15	20.34	N	10	27.81		
0.462000	44.18	56.66	12.47	N	10	34.18		
0.930000	38.31	56.00	17.69	N	10	28.31		
1.250000	31.75	56.00	24.25	N	10	21.75		
2.670000	31.14	56.00	24.86	N	10	21.14		
4.538000	27.39	56.00	28.61	N	10	17.39		
Final_Result_AVC	Final_Result_AVG							
Frequency	Average	Limit	Margin	Line	Corr.	P _{Mea}		
(MHz)	(dBµV)	(dBµV)	(dB)		(dB)	(dBµV)		
0.418000	25.28	47.49	22.21	N	10	15.28		
0.462000	31.49	46.66	15.17	Ν	10	21.49		
0.918000	20.36	46.00	25.64	Ν	10	10.36		
1.582000	17.97	46.00	28.03	Ν	10	7.97		
2.670000	18.99	46.00	27.01	Ν	10	8.99		
3.698000	16.13	46.00	29.87	Ν	10	6.13		

END OF REPORT*