



TEST REPORT

No.I20N02299-EMC

for

TCL Communication Ltd.

Bluetooth Keyboard

Model Name: KB 30

With

Hardware Version: V1.1

Software Version: V1.0

FCC ID: 2ACCJACC05

Issued Date: 2020-09-16

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
I20N02299-EMC	Rev.0	1st edition	2020-09-16

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	Bluetooth Keyboard
Model Name	KB 30
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

1.2. Test Standards

FCC Part 15, Subpart B 10-1-2019 Edition; ANSI C63.4 2014;

1.3. Test Result

Pass

Total test 2 items, pass 2 items. Please refer to "6.2 Summary of Measurement Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date: 2020-08-27

Testing End Date: 2020-09-14

1.6. Signature

Ma Shoujian
(Prepared this test report)

Zhang Yunzhuan
(Reviewed this test report)

Cao Junfei
(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact: Gong Zhizhou
Email: zhizhou.gong@tcl.com
Tel. 0086-755-36611722
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 Park, Shatin, NT, Hong Kong
Contact: Gong Zhizhou
Email: zhizhou.gong@tcl.com
Tel. 0086-755-36611722
Fax 0086-755-36612000-81722

3. Equipment UnderTest (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Bluetooth Keyboard
Model Name	KB 30
FCC ID	2ACCJACC05
Antenna Type	Internal Antenna
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
UT01aa	/	V1.1	V1.0	2020-08-27
UT02aa	/	V1.1	V1.0	2020-08-27

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	Description
AE1	Battery
AE2	Charger
AE3	Cable

AE1

Model	MPD-101-1S1P-301452
Manufacturer	MICA
Capacity	200mAh

AE2-1

Model	UC13EU/CBA0059AAAC5
Manufacturer	PUAN

AE2-2

Model	UC13UK/CBA0059ABAC5
Manufacturer	PUAN

AE3-1

Model	CDA0000123C2
Manufacturer	SHENGHUA

AE3-2

Model	CDA0000123C8
Manufacturer	JUWEI

*AE ID is used to identify the test sample in the lab internally.

AE: ancillary equipment

AE2: The circuit boards of model UC13EU/CBA0059AAAC5(AE2-1) and UC13UK/CBA0059ABAC5(AE2-2) are the same.

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE
Set.1	UT02aa+AE1+AE2-1+AE3-1
Set.2	UT02aa+AE1+AE2-2+AE3-2
Set.3	UT01aa+AE1+AE2-1+AE3-1
Set.4	UT01aa+AE1+AE2-2+AE3-2

3.5. General Description

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

It has Bluetooth function.

It consists of normal options: Battery, Charger and Data Cable.

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. Reference Documents

4.1. Reference Documents for testing

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

Reference	Title	Version
FCC Part 15, Subpart B	Radio frequency devices	10-1-2019 Edition
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

5. LABORATORY ENVIRONMENT

Semi-anechoic chamber did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 25 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz

Shield room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 25 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-10000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω

Fully-anechoic chamber did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 25 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

6. SUMMARY OF TEST RESULTS

6.1. Testing Environment

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

6.2. Summary of Measurement Results

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

Items	Test Name	Clause in FCC	Section in this report	Verdict
1	Radiated Emission	15.109(a)	A.1	P
2	Conducted Emission	15.107(a)	A.2	P

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	4.90dB(k=2)
	1GHz-18GHz	4.60dB(k=2)
	18GHz-40GHz	4.10dB(k=2)
Conducted Emission	150kHz-30MHz	3.00dB(k=2)

8. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL PERIOD
1.	Test Receiver	ESR7	101676	R&S	2020.11.27	1 year
2.	Test Receiver	ESCI	100701	R&S	2021.08.09	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2021.01.14	1 year
4.	BiLog Antenna	3142E	00224831	ETS-Lindgren	2021.05.17	3 years
5.	LISN	ENV216	102067	R&S	2021.07.16	1 year
6.	Horn Antenna	3117	00066577	ETS-Lindgren	2022.04.02	3 years
7.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2021.07.19	2 years
8.	Software	EMC32	V10.01.00	R&S	/	/

9. Test Accessory Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL 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: CFR Part 15.109(a)

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (Data transfer mode of EUT and charging mode of EUT) at a distance of 3 meters 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. The measurement antenna was placed at a distance of 3 meters from the EUT. 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:

Bluetooth:

The EUT is connected to a charger for charging. The EUT is connected to a PC for transmitting data by Bluetooth function. The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C.

This device does not contain the receivers which tune and operate between 30MHz-960MHz.

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.

A.1.3 Measurement Limit

Limit from CFR Part 15.109(a)

Frequency range (MHz)	Field strength limit ($\mu\text{V/m}$)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

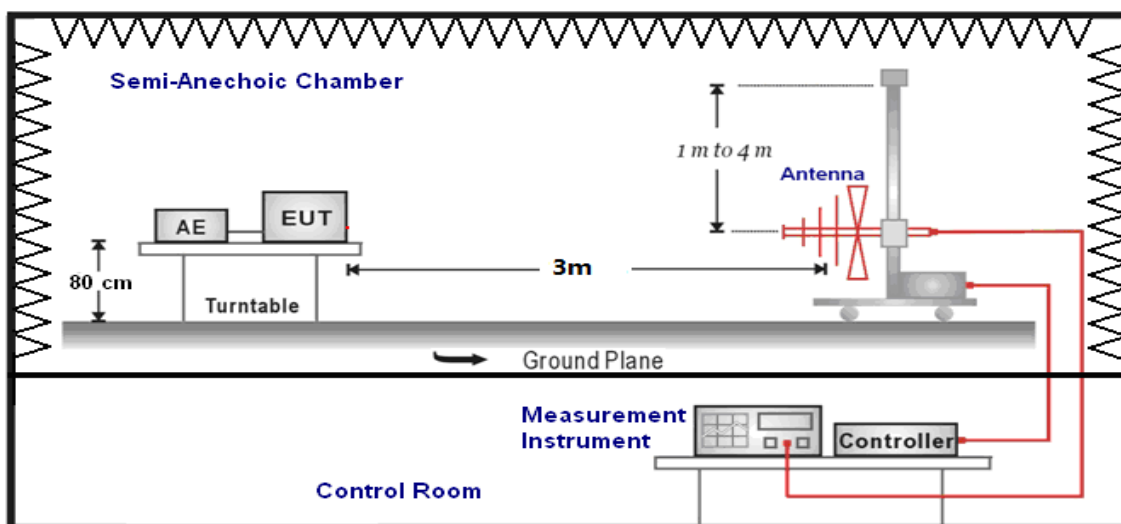
*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

A.1.4 Test Condition

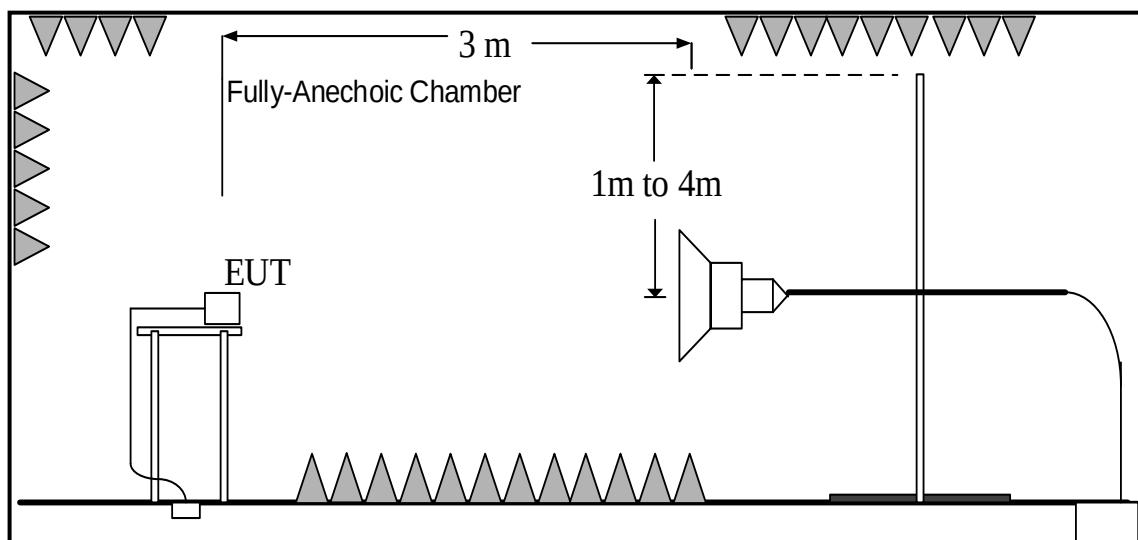
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

A.1.5 Test set-up:

30MHz-1GHz



1GHz-18GHz



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:

$$\text{Result} = P_{\text{Mea}} + A_{Rpl} = P_{\text{Mea}} + G_A + G_{PL}$$

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Result: Quasi-Peak(dB μ V/m) / Average(dB μ V/m)/Peak(dB μ V/m)

Note: the result contains vertical part and Horizontal part

Bluetooth

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		Set.3	
30-88	40	See Figure A.1	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.3	
1000 to 18000	54	74	See Figure A.2	P

Bluetooth

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		Set.4	
30-88	40	See Figure A.3	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			Set.4	
1000 to 18000	54	74	See Figure A.4	P

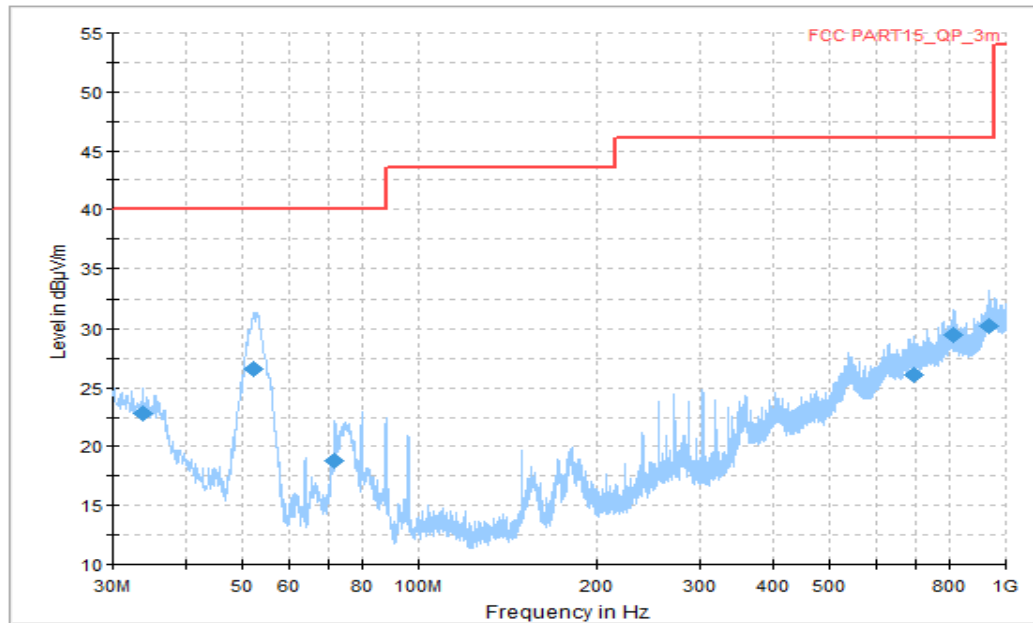


Figure A.1 Radiated Emission (Set.3, Bluetooth, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
33.758750	22.84	40.00	17.16	V	-15	37.84
52.128125	26.59	40.00	13.41	V	-22	48.59
71.891875	18.80	40.00	21.20	V	-22	40.80
696.268750	26.08	46.02	19.94	V	-2	28.08
813.881250	29.52	46.02	16.50	H	-1	30.52
936.828750	30.19	46.02	15.83	H	1	29.19

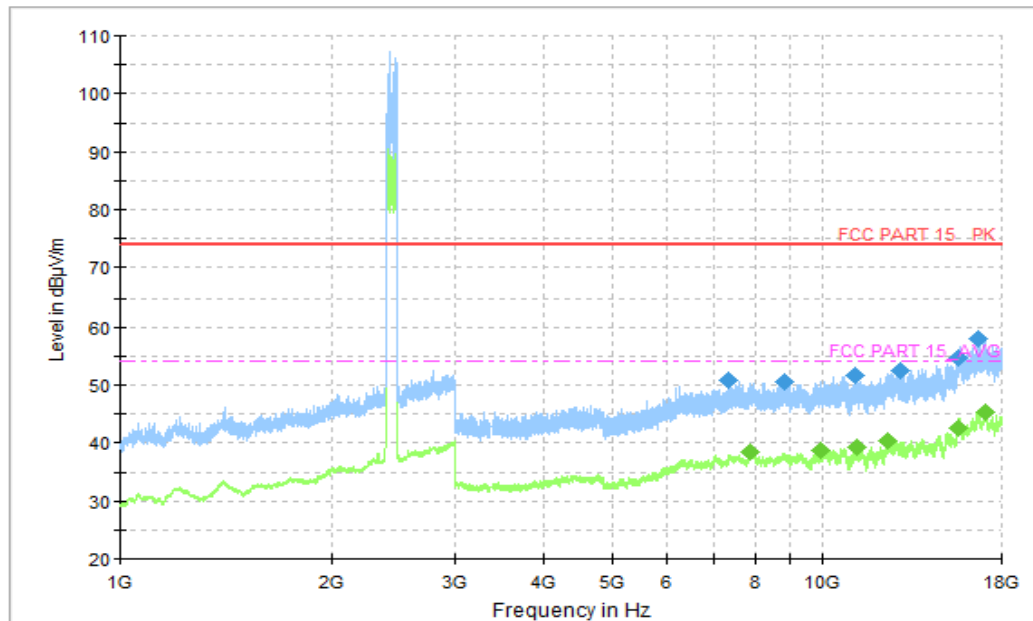


Figure A.2 Radiated Emission (Set.3, Bluetooth , 1GHz to 18GHz)

Note: the spike over the limit is coming from the traffic carrier.

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
7315.500000	50.71	74.00	23.29	H	12	38.71
8819.500000	50.56	74.00	23.44	V	13	37.56
11126.500000	51.72	74.00	22.28	H	15	36.72
12887.500000	52.51	74.00	21.49	V	17	35.51
15573.500000	54.62	74.00	19.38	V	20	34.62
16658.500000	57.86	74.00	16.14	H	22	35.86

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
7861.500000	38.37	54.00	15.63	V	12	26.37
9914.500000	38.59	54.00	15.41	H	14	24.59
11168.000000	39.29	54.00	14.71	V	15	24.29
12405.500000	40.49	54.00	13.51	H	17	23.49
15573.000000	42.69	54.00	11.31	H	20	22.69
17021.000000	45.30	54.00	8.70	V	23	22.30
15573.500000	42.40	54.00	11.60	V	20	22.40
16658.500000	44.10	54.00	9.90	H	22	22.10

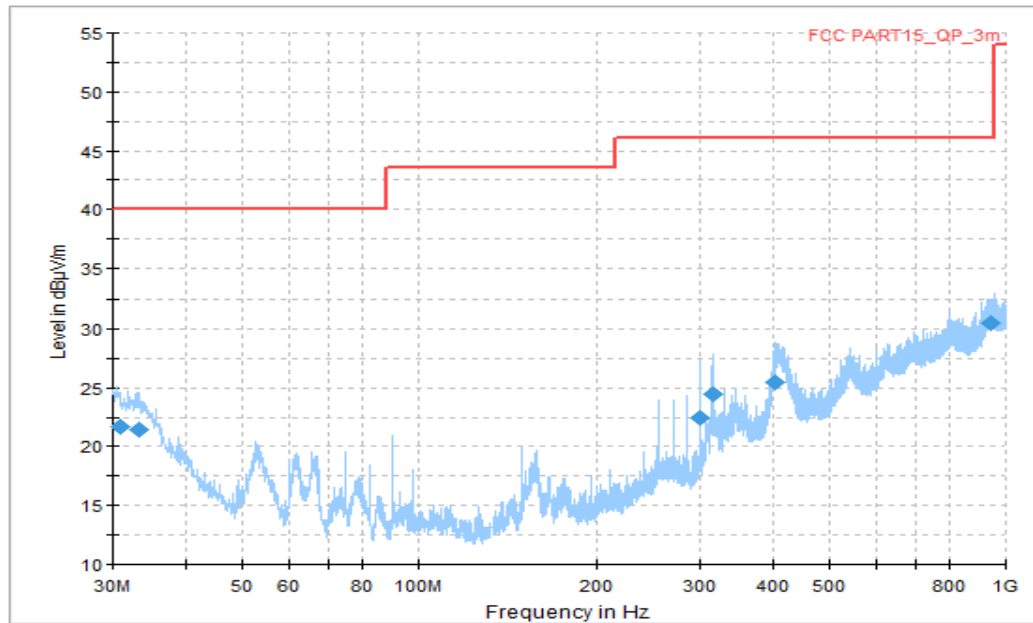


Figure A.3 Radiated Emission (Set.4, Bluetooth, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
30.909375	21.68	40.00	18.32	V	-14	35.68
33.273750	21.42	40.00	18.58	H	-15	36.42
300.145000	22.41	46.02	23.61	H	-14	36.41
315.058750	24.45	46.02	21.57	H	-13	37.45
404.116875	25.42	46.02	20.60	H	-8	33.42
940.830000	30.47	46.02	15.55	V	1	29.47

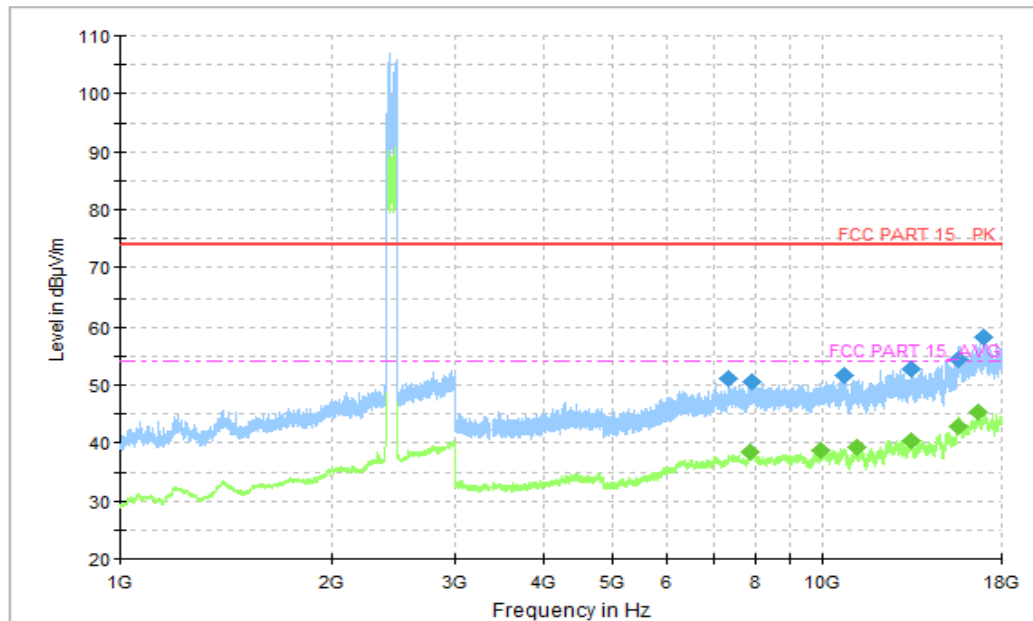


Figure A.4 Radiated Emission (Set.4, Bluetooth, 1GHz to 18GHz)

Note: the spike over the limit is coming from the traffic carrier.

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
7344.000000	51.15	74.00	22.85	V	12	39.15
7918.000000	50.61	74.00	23.39	V	12	38.61
10724.500000	51.65	74.00	22.35	V	14	37.65
13396.500000	52.70	74.00	21.30	H	17	35.70
15577.000000	54.31	74.00	19.69	V	20	34.31
17002.000000	58.19	74.00	15.81	H	23	35.19

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
7860.000000	38.38	54.00	15.62	H	12	26.38
9909.000000	38.64	54.00	15.36	V	14	24.64
11161.000000	39.20	54.00	14.80	V	15	24.20
13372.500000	40.50	54.00	13.50	H	17	23.50
15577.000000	42.77	54.00	11.23	H	20	22.77
16647.500000	45.34	54.00	8.66	V	22	23.34
15577.000000	42.60	54.00	11.40	V	20	22.60
17002.000000	44.50	54.00	9.50	H	23	21.50

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

FCC: CFR 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.

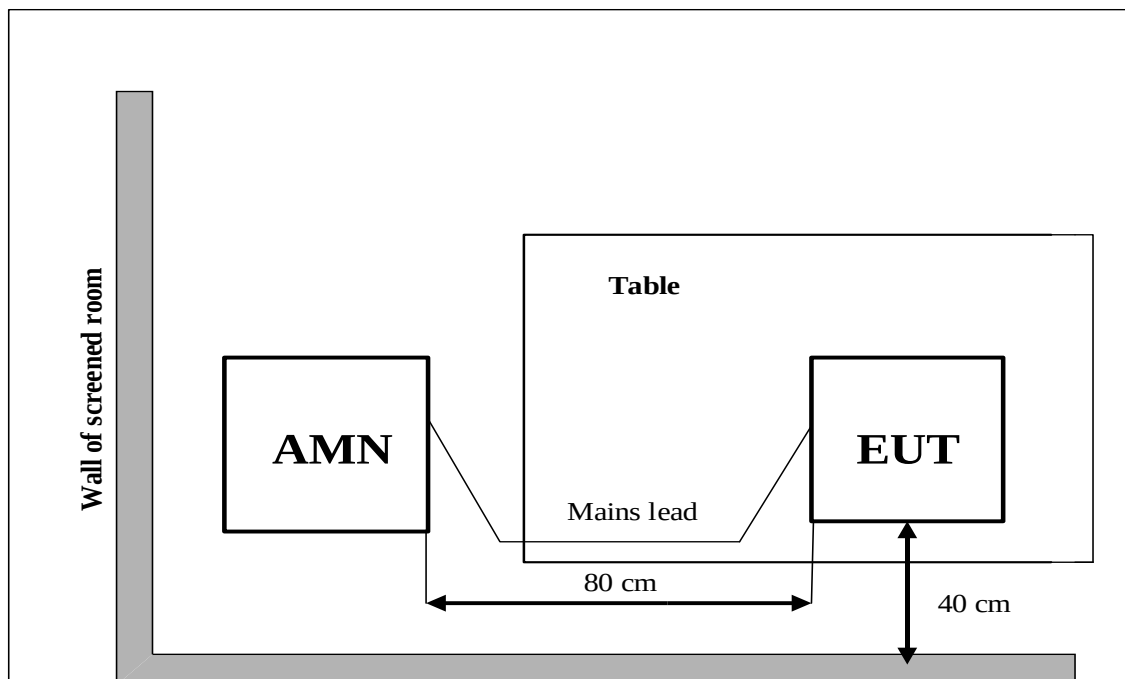
A.2.2 EUT Operating Mode:**Bluetooth:**

The EUT is connected to a charger for charging. The EUT is connected to a PC for transmitting data by Bluetooth function. The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C.

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.2.4 Test 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.

Bluetooth

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.1	P
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 0.5 MHz.

Bluetooth

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.2	P
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 0.5 MHz.				

Bluetooth

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.3	P
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 0.5 MHz.				

Bluetooth

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.4	P
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 0.5 MHz.				

AC Input Port/ Voltage: 120V/60Hz

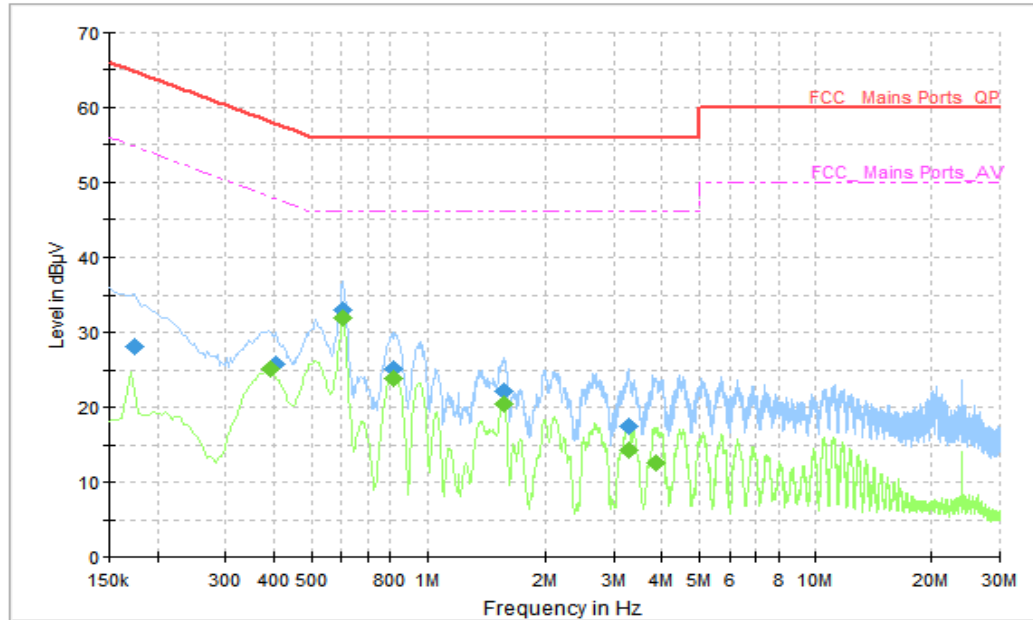


Figure B.1 Conducted Emission(Set.1, Bluetooth)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.174000	28.21	64.77	36.56	L1	10	18.21
0.406000	25.92	57.73	31.81	L1	10	15.92
0.602000	33.11	56.00	22.89	L1	10	23.11
0.818000	25.16	56.00	30.84	L1	10	15.16
1.562000	22.21	56.00	33.79	L1	10	12.21
3.270000	17.60	56.00	38.40	L1	10	7.60

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.390000	25.17	48.06	22.89	L1	10	15.17
0.602000	32.05	46.00	13.95	L1	10	22.05
0.818000	23.97	46.00	22.03	L1	10	13.97
1.558000	20.55	46.00	25.45	L1	10	10.55
3.274000	14.30	46.00	31.70	L1	10	4.30
3.866000	12.63	46.00	33.37	L1	10	2.63

AC Input Port/ Voltage: 120V/60Hz

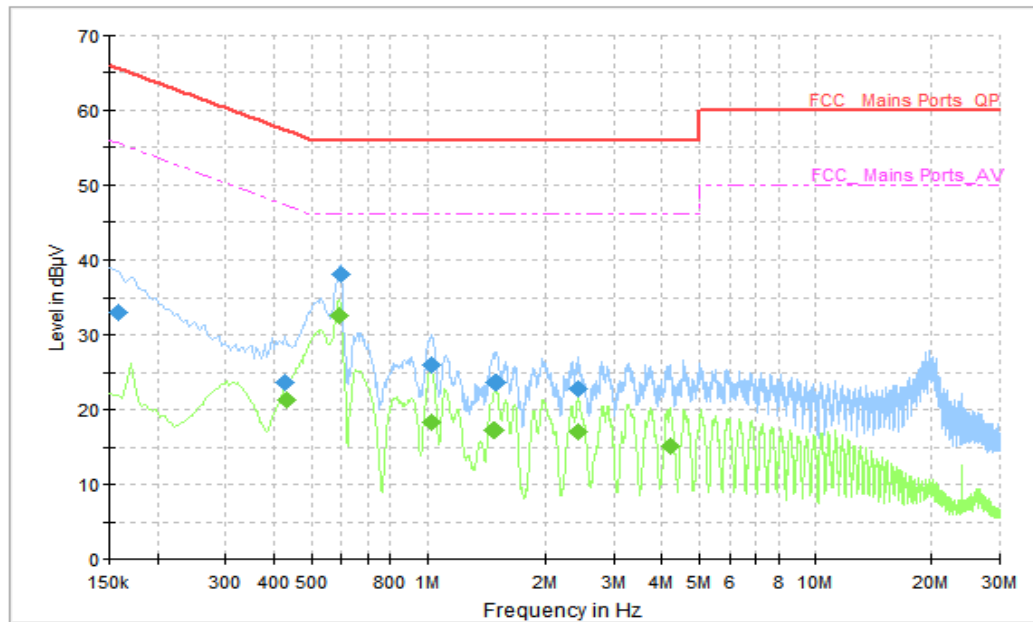


Figure B.2 Conducted Emission(Set.2, Bluetooth)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.158000	33.16	65.57	32.41	N	10	23.16
0.426000	23.67	57.33	33.66	L1	10	13.67
0.594000	38.09	56.00	17.91	L1	10	28.09
1.026000	26.00	56.00	30.00	L1	10	16.00
1.486000	23.75	56.00	32.26	L1	10	13.75
2.430000	22.82	56.00	33.18	L1	10	12.82

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.430000	21.36	47.25	25.89	L1	10	11.36
0.590000	32.56	46.00	13.44	L1	10	22.56
1.026000	18.35	46.00	27.65	L1	10	8.35
1.478000	17.39	46.00	28.61	L1	10	7.39
2.430000	17.15	46.00	28.85	L1	10	7.15
4.194000	15.19	46.00	30.81	L1	10	5.19

AC Input Port/ Voltage: 240V/60Hz

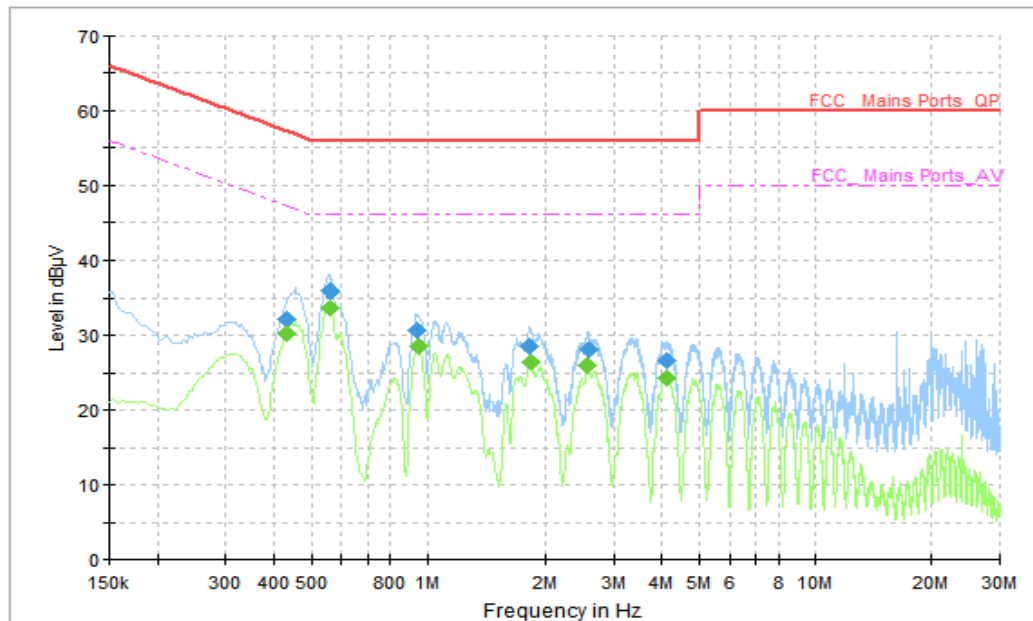


Figure B.3 Conducted Emission(Set.1, Bluetooth)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.430000	32.27	57.25	24.98	L1	10	22.27
0.558000	35.84	56.00	20.16	L1	10	25.84
0.938000	30.66	56.00	25.34	L1	10	20.66
1.822000	28.54	56.00	27.46	L1	10	18.54
2.582000	28.14	56.00	27.86	L1	10	18.14
4.098000	26.63	56.00	29.37	L1	10	16.63

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.430000	30.29	47.25	16.96	L1	10	20.29
0.558000	33.74	46.00	12.26	L1	10	23.74
0.950000	28.53	46.00	17.47	L1	10	18.53
1.826000	26.48	46.00	19.52	L1	10	16.48
2.566000	26.01	46.00	19.99	L1	10	16.01
4.110000	24.35	46.00	21.65	L1	10	14.35

AC Input Port/ Voltage: 240V/60Hz

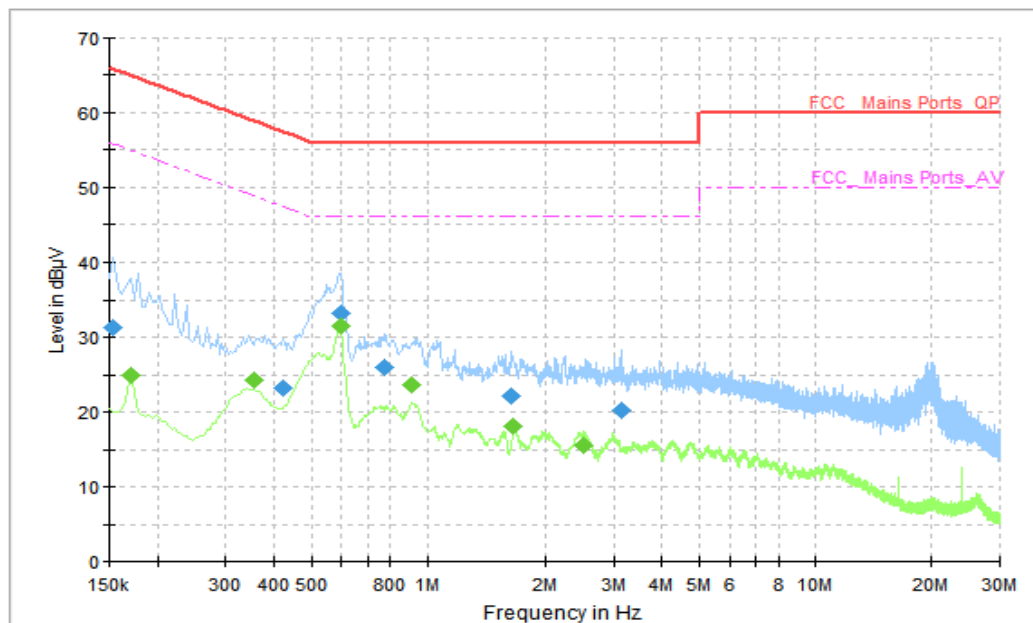


Figure B.4 Conducted Emission(Set.2, Bluetooth)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.154000	31.38	65.78	34.40	N	10	21.38
0.422000	23.34	57.41	34.07	L1	10	13.34
0.598000	33.24	56.00	22.76	L1	10	23.24
0.770000	25.95	56.00	30.05	L1	10	15.95
1.630000	22.09	56.00	33.91	L1	10	12.09
3.134000	20.23	56.00	35.77	L1	10	10.23

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBμV)
0.170000	24.96	54.96	30.00	N	10	14.96
0.354000	24.29	48.87	24.58	L1	10	14.29
0.594000	31.67	46.00	14.33	L1	10	21.67
0.914000	23.70	46.00	22.30	L1	10	13.70
1.654000	18.22	46.00	27.78	L1	10	8.22
2.510000	15.53	46.00	30.47	L1	10	5.53

END OF REPORT