



EMC TEST REPORT

Applicant Huawei Technologies Co., Ltd.
FCC ID QISSTK-LX1
Product Smart Phone
Model STK-LX1
Report No. R1903H0032-E1V1
Issue Date March 26, 2019

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC Code CFR47 Part15B (2018)/ ANSI C63.4 (2014)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Wei Liu

Performed by: Wei Liu/ Manager

Guangchang Fan

Approved by: Guangchang Fan/ Director

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Summary of measurement results

Number	Test Case	Clause in FCC Rules	Conclusion
1	Radiated Emission	FCC Part15.109, ANSI C63.4-2014	PASS
2	Conducted Emission	FCC Part15.107, ANSI C63.4-2014	PASS
Test Date: March 8, 2019 ~ March 22, 2019			

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test facility

CNAS (accreditation number: L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.



1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Xu Kai
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <http://www.ta-shanghai.com>
E-mail: xukai@ta-shanghai.com

2 General Description of Equipment under Test

2.1 Client Information

Applicant	Huawei Technologies Co., Ltd.
Applicant address	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.China.
Manufacturer	Huawei Technologies Co., Ltd.
Manufacturer address	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.China.

2.2 General information

EUT Description			
Device Type:	Portable Device		
Model Number:	STK-LX1		
IMEI:	IMEI 1:860815040043101 IMEI 2:860815040048027		
HW Version:	HL1STKM		
SW Version:	STK-LX1 9.0.1.18		
Antenna Type:	Internal Antenna		
Frequency:	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824 ~ 849	869 ~ 894
	GSM 1900	1850 ~ 1910	1930 ~ 1990
	WCDMA Band II	1850 ~ 1910	1930 ~ 1990
	WCDMA Band V	824 ~ 849	869 ~ 894
	LTE Band 7	2500 ~ 2570	2620 ~ 2690
	Bluetooth:	2402 ~ 2480	2402 ~ 2480
	WIFI 2.4G:	2412 ~ 2462	2412 ~ 2462
	WIFI 5G(U-NII-1):	5150 ~ 5250	5150 ~ 5250
	WIFI 5G(U-NII-2A):	5250 ~ 5350	5250 ~ 5350
	WIFI 5G(U-NII-2C):	5470 ~ 5725	5470 ~ 5725
	WIFI 5G(U-NII-3):	5725 ~ 5850	5725 ~ 5850
	NFC	13.56	13.56
Modulation:	GSM: GMSK GPRS: GMSK EGPRS: GMSK/8PSK WCDMA RMC: QPSK		



	HSDPA: QPSK HSUPA: QPSK DC-HSDPA: 64QAM LTE: QPSK / 16QAM Bluetooth: GFSK, π /4-DQPSK, 8-DPSK Bluetooth v4.2 LE: GFSK WLAN 802.11b: DSSS WLAN 802.11a/g/n/ac: OFDM NFC: ASK
EUT Accessory	
Adapter 1	Manufacturer: Huawei Technologies Co., Ltd. (DONG GUAN PHITEK ELECTRONICS CO., LTD.) Model: HW-050200U01
Adapter 2	Manufacturer: Huawei Technologies Co., Ltd. (SHENZHEN HUNTKEY ELECTRIC CO., LTD) Model: HW-050200U01
Adapter 3	Manufacturer: Huawei Technologies Co., Ltd. (HUIZHOU BYD ELECTRONIC CO., LTD.) Model: HW-050200U01
Adapter 4	Manufacturer: Huawei Technologies Co., Ltd. (DONG GUAN PHITEK ELECTRONICS CO., LTD.) Model: HW-050200E01
Adapter 5	Manufacturer: Huawei Technologies Co., Ltd. (SHENZHEN HUNTKEY ELECTRIC CO., LTD) Model: HW-050200E01
Adapter 6	Manufacturer: Huawei Technologies Co., Ltd. (HUIZHOU BYD ELECTRONIC CO., LTD.) Model: HW-050200E01
Adapter 7	Manufacturer: Huawei Technologies Co., Ltd. (DONG GUAN PHITEK ELECTRONICS CO., LTD.) Model: HW-050200B01
Adapter 8	Manufacturer: Huawei Technologies Co., Ltd. (SHENZHEN HUNTKEY ELECTRIC CO., LTD) Model: HW-050200B01
Adapter 9	Manufacturer: Huawei Technologies Co., Ltd. (HUIZHOU BYD ELECTRONIC CO., LTD.) Model: HW-050200B01
Adapter 10	Manufacturer: Huawei Technologies Co., Ltd. (DONG GUAN PHITEK ELECTRONICS CO., LTD.) Model: HW-050200A01
Adapter 11	Manufacturer: Huawei Technologies Co., Ltd. (SHENZHEN HUNTKEY ELECTRIC CO., LTD) Model: HW-050200A01



Adapter 12	Manufacturer: Huawei Technologies Co., Ltd. (HUIZHOU BYD ELECTRONIC CO., LTD.) Model: HW-050200A01
Adapter 13	Manufacturer: Huawei Technologies Co., Ltd. (DONG GUAN PHITEK ELECTRONICS CO., LTD.) Model: HW-050200U02
Adapter 14	Manufacturer: Huawei Technologies Co., Ltd. (SHENZHEN HUNTKEY ELECTRIC CO., LTD) Model: HW-050200U02
Adapter 15	Manufacturer: Huawei Technologies Co., Ltd. (HUIZHOU BYD ELECTRONIC CO., LTD.) Model: HW-050200U02
Adapter 16	Manufacturer: Huawei Technologies Co., Ltd. (Salcomp (Shenzhen) Co.,Ltd.) Model: HW-050200U02
Adapter 17	Manufacturer: Huawei Technologies Co., Ltd. (DONG GUAN PHITEK ELECTRONICS CO., LTD.) Model: HW-050200E02
Adapter 18	Manufacturer: Huawei Technologies Co., Ltd. (SHENZHEN HUNTKEY ELECTRIC CO., LTD) Model: HW-050200E02
Adapter 19	Manufacturer: Huawei Technologies Co., Ltd. (HUIZHOU BYD ELECTRONIC CO., LTD.) Model: HW-050200E02
Adapter 20	Manufacturer: Huawei Technologies Co., Ltd. (Salcomp (Shenzhen) Co.,Ltd.) Model: HW-050200E02
Adapter 21	Manufacturer: Huawei Technologies Co., Ltd. (HUIZHOU BYD ELECTRONIC CO., LTD.) Model: HW-050200A02
Adapter 22	Manufacturer: Huawei Technologies Co., Ltd. (Salcomp (Shenzhen) Co.,Ltd.) Model: HW-050200A02
Adapter 23	Manufacturer: Huawei Technologies Co., Ltd. (DONG GUAN PHITEK ELECTRONICS CO., LTD.) Model: HW-050200B02
Adapter 24	Manufacturer: Huawei Technologies Co., Ltd. (SHENZHEN HUNTKEY ELECTRIC CO., LTD) Model: HW-050200B02
Adapter 25	Manufacturer: Huawei Technologies Co., Ltd. (HUIZHOU BYD ELECTRONIC CO., LTD.) Model: HW-050200B02
Adapter 26	Manufacturer: Huawei Technologies Co., Ltd. (Salcomp (Shenzhen) Co.,Ltd.)



	Model: HW-050200B02
Battery 1	Manufacturer: HuaweiTechnologies Co., Ltd. (SCUD (Fujian) Electronics Co., LTD.) Model: HB446486ECW
Battery 2	Manufacturer: HuaweiTechnologies Co., Ltd. (Desay Battery Electronic Co.,LTD) Model: HB446486ECW
Battery 3	Manufacturer: HuaweiTechnologies Co., Ltd. (Sunwoda Electronic Co.,LTD) Model: HB446486ECW
Earphone 1	Manufacturer: Boluo County Quancheng Electronic Co.,ltd Model: 1293-3283-3.5MM-322
Earphone 2	Manufacturer: Jiangxi Lianchuang Hongsheng Electronic Co. ,LTD Model: MEND1532B528A02
USB cable 1	Manufacturer: NingBo Broad Telecommunication Co.,Ltd. Model: WA0020
USB cable 2	Manufacturer: LUXSHARE Precision Industry Co., Ltd. Model: L99UC131-CS-H
USB cable 3	Manufacturer: HONGFUJIN PRECISION INDUSTRIAL (SHENZHEN).LTD Model: CUDU01B-HC295-EH
USB cable 4	Manufacturer: Freeport Resources Enterprises (Jiangxi) Co.,Ltd Model: 18-93C2CHO-001HF
USB cable 5	Manufacturer: Dongguan Mingji Electronics Technology Group Co.,Ltd Model: 203-1572-0
Auxiliary test equipment	
PC	PC Manufacturer: Microsoft Corporation Model: L20170076
Note: The information of the EUT is declared by the manufacturer.	



2.3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards

FCC Code CFR47 Part15B (2018)

ANSI C63.4 (2014)

2.4 Test Mode

Test Mode for RE	
Mode 1:	USB Copy(EUT with PC) + USB cable + earphone + rear camera On + MP3 +Idle
Mode 2:	USB Copy(EUT with PC) + USB cable + earphone +front camera On + MP3 +Idle
Mode 3:	Adapter +USB cable+ earphone + front camera On +Idle
Mode4:	Adapter +USB cable + earphone + rear camera On +Idle
Mode 5:	Adapter + USB cable+ earphone + Mp3 +Idle
Mode 6:	Adapter + USB cable+ earphone +play video+Idle
Mode 7:	Front camera On +earphone + Idle
Mode 8:	Rear camera On + earphone + Idle
Mode 9:	Earphone+MP3+Idle
Mode 10:	Earphone +Play video+Idle

During the test, the preliminary test was performed in all modes with all adapters, USB and batteries, mode 1 with Battery 1 and USB cable 2 is selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Test Mode for CE	
Mode 1:	USB Copy(EUT with PC) + USB cable + earphone + rear camera On + MP3 +Idle
Mode 2:	USB Copy(EUT with PC) + USB cable + earphone +front camera On + MP3 +Idle
Mode 3:	Adapter +USB cable+ earphone + front camera On +Idle
Mode4:	Adapter +USB cable + earphone + rear camera On +Idle
Mode 5:	Adapter + USB cable+ earphone + Mp3 +Idle
Mode 6:	Adapter + USB cable+ earphone +play video+Idle

During the test, the preliminary test was performed in all modes with all adapters, USB and batteries, mode 1 with Battery 1 and USB cable 2 is selected as the worst condition. The test data of the worst-case condition was recorded in this report.

3 Test Case Results

3.1 Radiated Emission

Ambient condition

Temperature	Relative humidity	Pressure
24°C~26°C	45%~50%	102.5kPa

Methods of Measurement

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The distance between EUT and receive antenna should be 3 meters. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated signal level.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. During the test, the EUT is worked at maximum output power.

Set the spectrum analyzer in the following:

Below 1GHz:

RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:

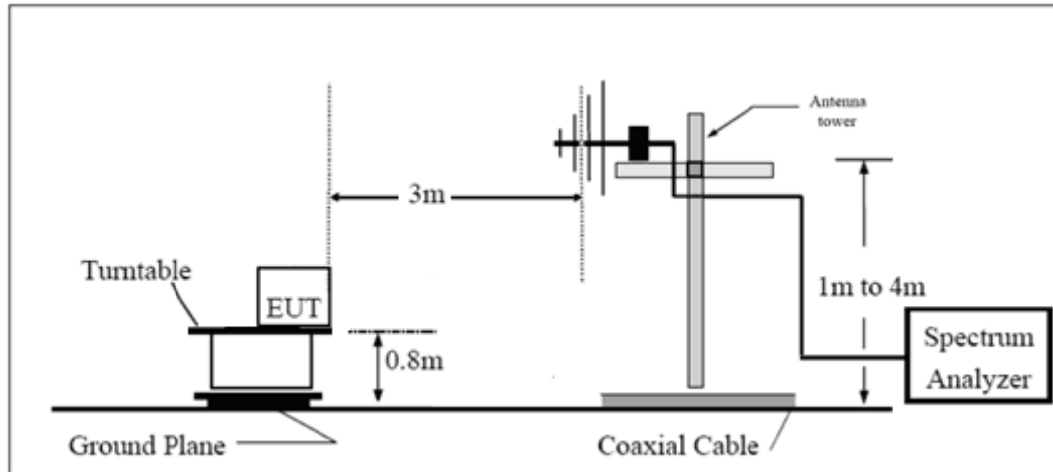
(a) PEAK: RBW=1MHz / VBW=3MHz/ Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

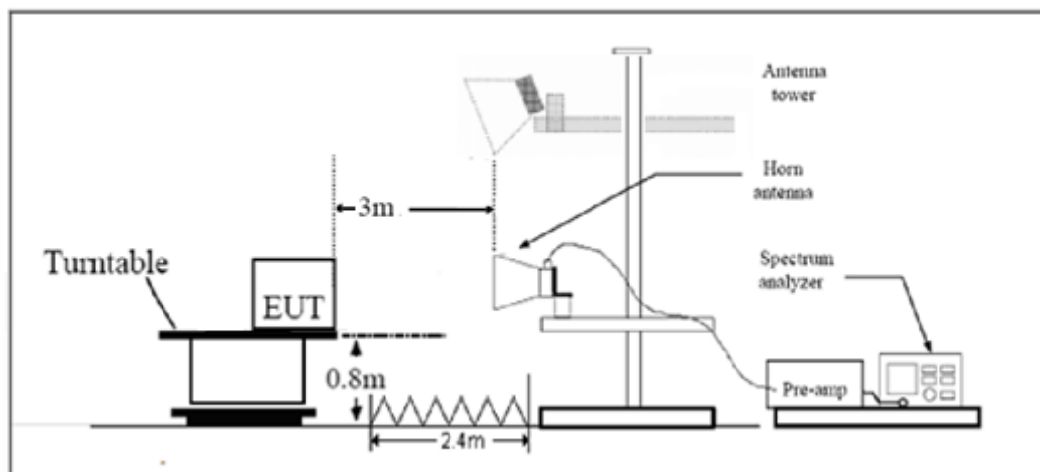
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

Test Setup

Below 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Antenna Tower meets ANSI C63.4 requirements for measurements above 1 GHz by keeping the antenna aimed at the EUT during the antenna's ascent/ descent along the antenna mast.

Limits

Frequency (MHz)	Field Strength (dB μ V/m)	Detector
30 -88	40.0	Quasi-peak
88-216	43.5	Quasi-peak
216 – 960	46.0	Quasi-peak
960-1000	54.0	Quasi-peak
1000-5 th harmonic of the highest frequency or 40GHz, which is lower	54 74	Average Peak

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

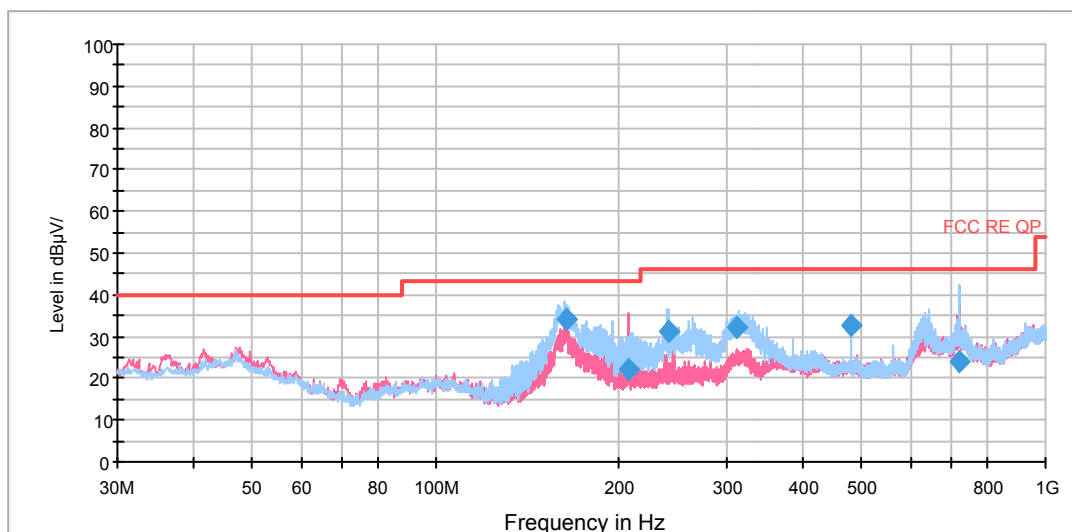
Frequency	Uncertainty
30MHz~200MHz	4.02 dB
200MHz~1000MHz	3.28 dB
1GHz~18GHz	3.70 dB
18GHz~26.5GHz	5.78 dB
26.5GHz~40GHz	5.82 dB

Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier, the Emissions in the frequency band 18GHz- 40GHz is more than 20dB below the limit are not reported.

The following graphs display the maximum values of horizontal and vertical by software.
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

RE 30M-1GHz QP



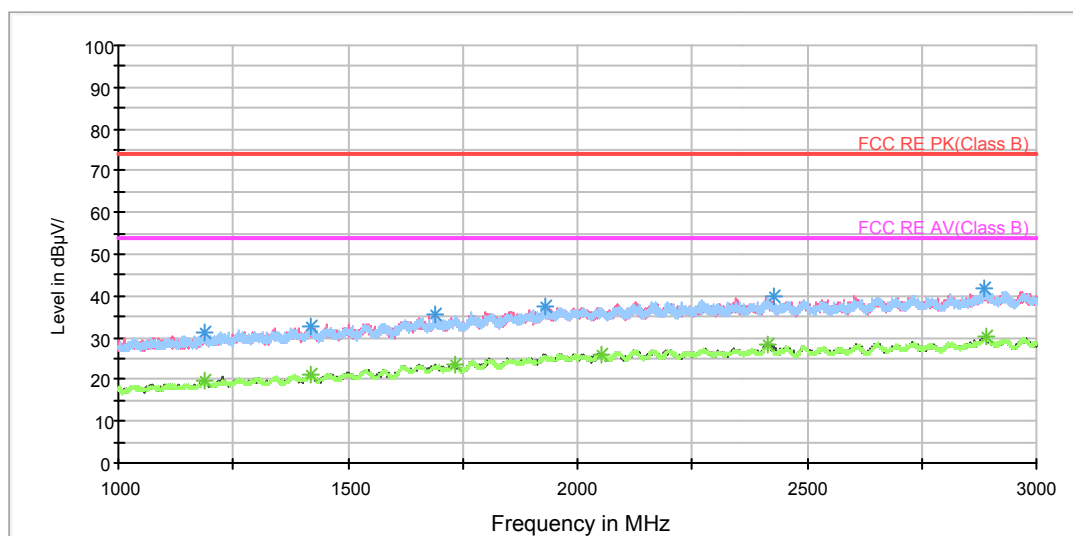
Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
163.299532	34.2	206.0	H	37.0	-13.9	9.3	43.5
207.284000	22.3	125.0	V	198.0	-12.4	21.2	43.5
240.051500	31.4	125.0	H	148.0	-11.6	14.6	46.0
312.650500	32.1	100.0	H	238.0	-8.5	13.9	46.0
479.983000	32.8	100.0	H	153.0	-6.2	13.2	46.0
720.194500	24.0	100.0	H	153.0	-1.6	22.0	46.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

2. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV

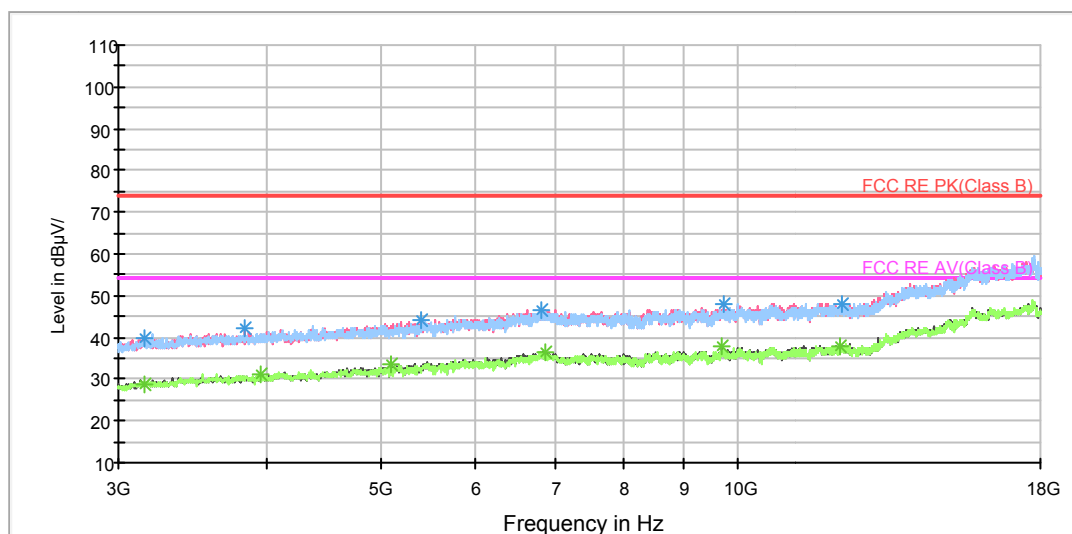


Radiated Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1187.500000	31.1	200.0	V	145.0	-9.4	42.9	74
1419.750000	32.6	100.0	H	26.0	-8.0	41.4	74
1688.000000	35.5	200.0	V	192.0	-5.9	38.5	74
1930.250000	37.3	200.0	H	211.0	-4.2	36.7	74
2887.750000	41.7	100.0	V	86.0	-0.1	32.3	74
2429.750000	39.9	200.0	V	80.0	-2.3	34.1	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1188.000000	19.5	100.0	V	326.0	-9.4	34.5	54
1418.250000	21.4	200.0	V	48.0	-8.0	32.6	54
1731.750000	23.8	200.0	V	26.0	-5.6	30.2	54
2054.000000	26.1	200.0	H	153.0	-3.7	27.9	54
2893.000000	30.1	200.0	H	0.0	-0.1	23.9	54
2413.500000	28.2	100.0	H	169.0	-2.1	25.8	54

RE 3-18GHz PK+AV 15C

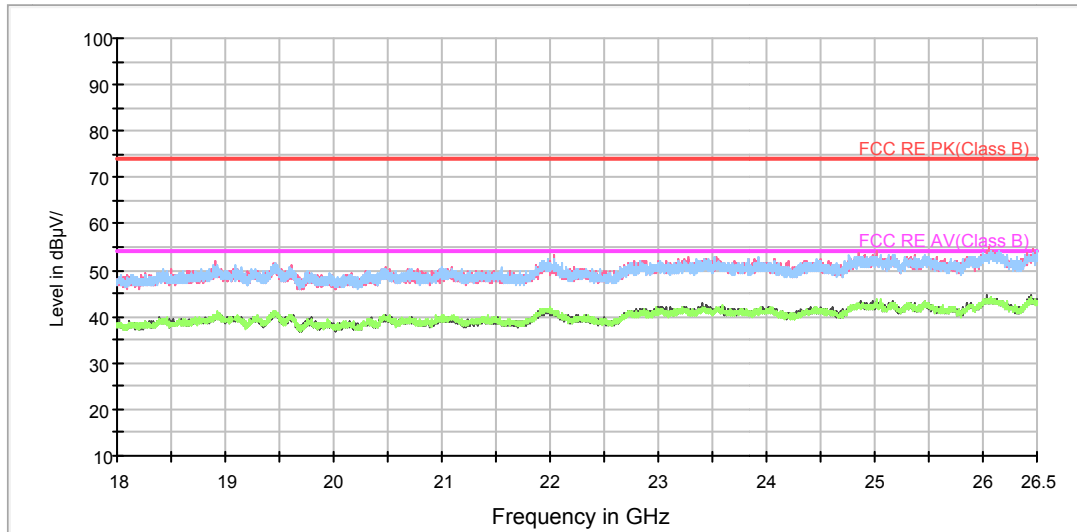


Radiated Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3150.000000	39.9	200.0	V	210.0	-3.1	34.1	74
3830.625000	42.2	100.0	V	261.0	-1.0	31.8	74
5398.125000	43.9	100.0	V	119.0	2.5	30.1	74
6819.375000	46.6	200.0	V	155.0	5.4	27.4	74
9716.250000	47.9	200.0	V	27.0	7.6	26.1	74
12251.250000	47.9	200.0	V	179.0	9.0	26.1	74

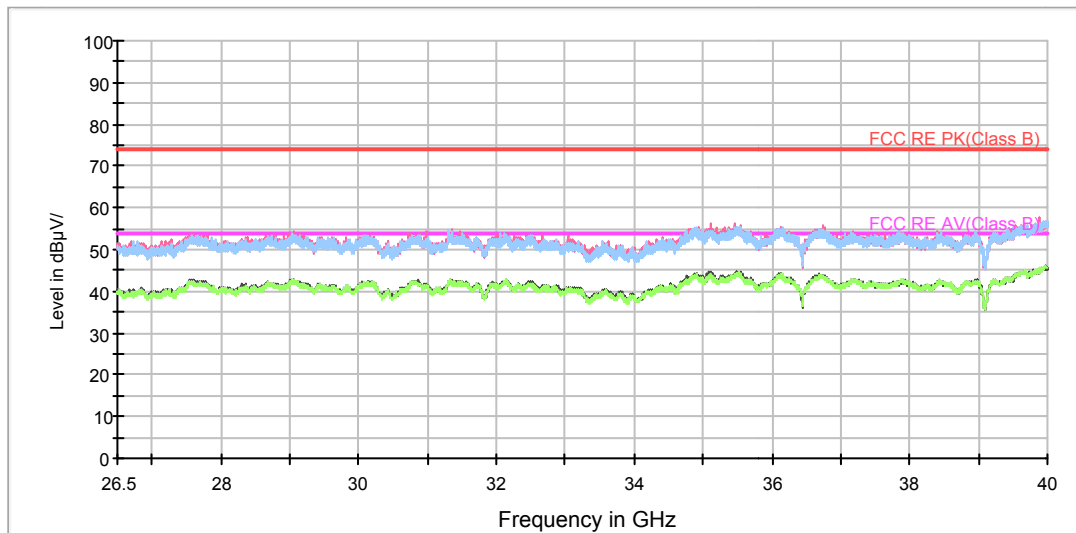
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3153.750000	28.8	200.0	V	58.0	-3.1	25.2	54
3958.125000	31.3	200.0	V	15.0	-0.5	22.7	54
5092.500000	33.6	100.0	V	137.0	1.8	20.4	54
6873.750000	36.6	100.0	V	268.0	5.4	17.4	54
9690.000000	37.8	200.0	V	27.0	7.6	16.2	54
12215.625000	37.7	200.0	V	118.0	9.0	16.3	54

RE 18-26.5GHz PK+AV



Radiated Emission from 18GHz to 26.5GHz

RE 26.5-40GHz PK+AV



Radiated Emission from 26.5GHz to 40GHz

3.2 Conducted Emission

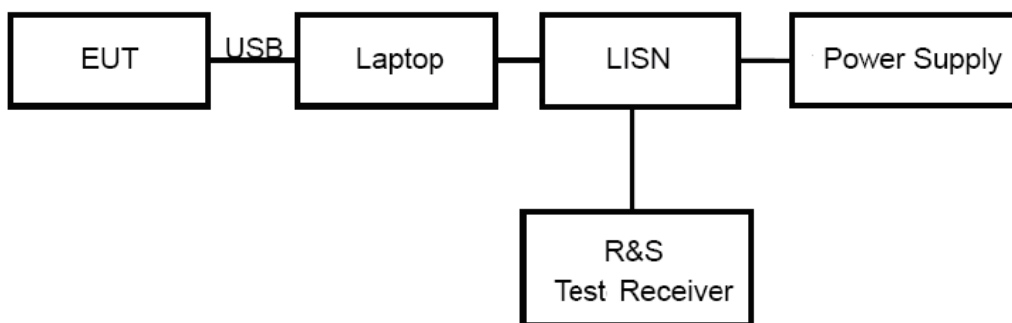
Ambient condition

Temperature	Relative humidity	Pressure
24°C ~26°C	50%~55%	102.5kPa

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

Test Setup



Note: Power Supply is AC Power source and it is used to change the voltage 120V/60Hz.

Limits

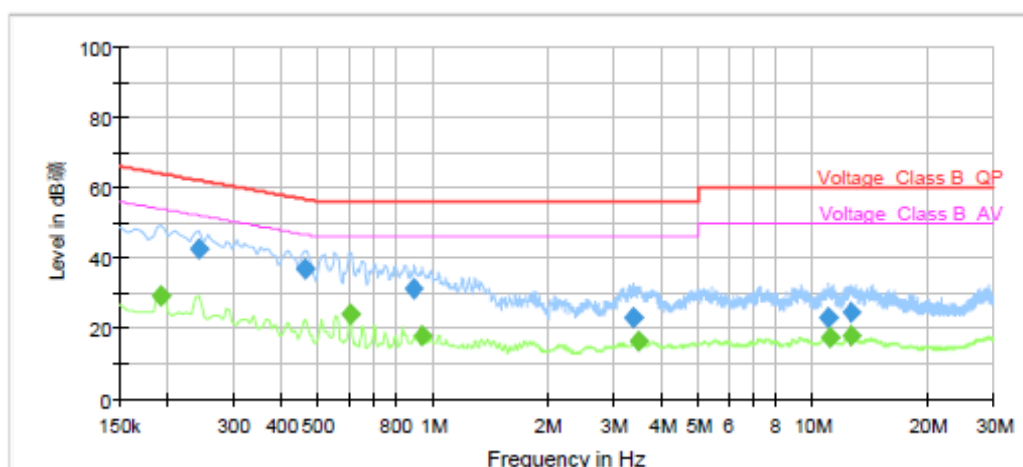
Frequency (MHz)	Conducted Limits(dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$. $U = 2.57$ dB.

Test Results

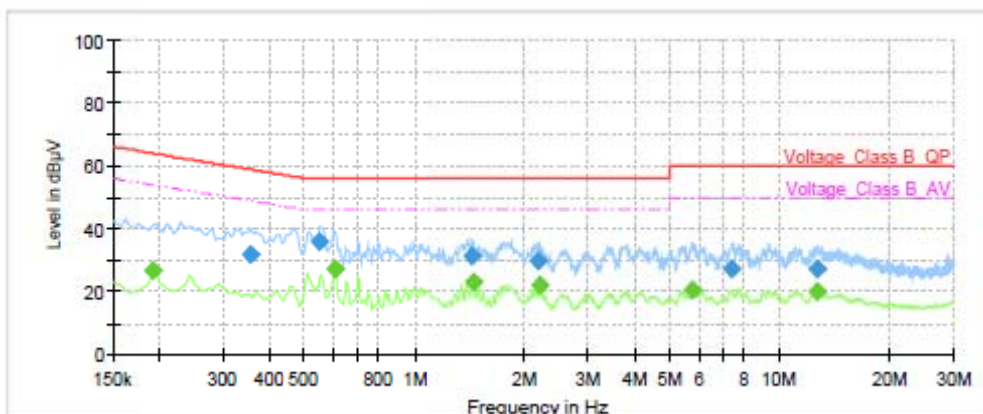
Following plots, Blue trace uses the peak detection; Green trace uses the average detection.



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.19	---	29.33	53.92	24.59	1000.0	9.000	L1	ON	19.18
0.24	42.79	---	62.02	19.23	1000.0	9.000	L1	ON	19.11
0.46	37.17	---	56.64	19.47	1000.0	9.000	L1	ON	19.23
0.61	---	24.21	46.00	21.79	1000.0	9.000	L1	ON	19.27
0.89	31.32	---	56.00	24.68	1000.0	9.000	L1	ON	19.24
0.94	---	17.86	46.00	28.14	1000.0	9.000	L1	ON	19.24
3.38	23.02	---	56.00	32.98	1000.0	9.000	L1	ON	19.05
3.48	---	16.21	46.00	29.79	1000.0	9.000	L1	ON	19.05
10.97	23.23	---	60.00	36.77	1000.0	9.000	L1	ON	19.36
11.04	---	17.23	50.00	32.77	1000.0	9.000	L1	ON	19.36
12.61	---	17.97	50.00	32.03	1000.0	9.000	L1	ON	19.46
12.61	24.47	---	60.00	35.53	1000.0	9.000	L1	ON	19.46

L line

Conducted Emission from 150 KHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.19	---	26.51	53.92	27.41	1000.0	9.000	N	ON	19.18
0.35	31.83	---	58.85	27.02	1000.0	9.000	N	ON	19.18
0.55	35.79	---	56.00	20.21	1000.0	9.000	N	ON	19.25
0.61	---	27.38	46.00	18.62	1000.0	9.000	N	ON	19.27
1.44	31.14	---	56.00	24.86	1000.0	9.000	N	ON	19.18
1.45	---	23.05	46.00	22.95	1000.0	9.000	N	ON	19.18
2.19	29.59	---	56.00	26.41	1000.0	9.000	N	ON	19.07
2.20	---	21.85	46.00	24.15	1000.0	9.000	N	ON	19.07
5.75	---	20.49	50.00	29.51	1000.0	9.000	N	ON	19.11
7.39	27.26	---	60.00	32.74	1000.0	9.000	N	ON	19.19
12.60	27.37	---	60.00	32.63	1000.0	9.000	N	ON	19.43
12.62	---	19.96	50.00	30.04	1000.0	9.000	N	ON	19.44

N line
Conducted Emission from 150 KHz to 30 MHz

4 Main Test Instrument

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Time
Spectrum Analyzer	R&S	FSV40	15195-01-00	2018-05-20	2019-05-19
EMI Test Receiver	R&S	ESCI	100948	2018-05-20	2019-05-19
Trilog Antenna	SCHWARZBECK	VULB 9163	9163-201	2017-11-18	2019-11-17
Horn Antenna	R&S	HF907	100126	2018-07-07	2020-07-06
Standard Gain Horn	ETS-Lindgren	3160-09	00102643	2018-06-20	2019-06-19
Standard Gain Horn	STEATITE	QSH-SL-26-40-K-15	16779	2017-07-20	2019-07-19
EMI Test Receiver	R&S	ESR	101667	2018-05-20	2019-05-19
LISN	R&S	ENV216	101171	2016-12-16	2019-12-15
Bore Sight Antenna mast	ETS	2171B	00058752	/	/
Test software	EMC32	R&S	9.26.0	/	/

*****END OF REPORT *****