

FCC PART 15C ANT+ TEST REPORT No. 2013TAR692

for

Sony Mobile Communications AB

GSM/WCDMA/LTE mobile phone

Type: PM-0610-BV

FCC ID: PY7PM-0610

with

Hardware Version: A

Software Version: 14.1.H.0.436

Issued Date: 2013-10-11



DAR accreditation (DIN EN ISO/IEC 17025): No. D-PL-12123-01-01

FCC 2.948 Listed: No.733176

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 TMC Beijing.

Test Laboratory:

TMC Beijing, Telecommunication Metrology Center of Ministry of Industry and Information Technology No.18A, Kangding Street, Beijing Economical Development Area, Beijing, China 100176
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1. Test Laboratory

1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT

Address: No.18A, Kangding Street, Beijing Economical Development Area,

Beijing, China

Postal Code: 100176

Telephone: 00861067857376 Fax: 00861067857376

1.2. Testing Environment

Normal Temperature: $15-35^{\circ}$ C Extreme Temperature: $-20/+55^{\circ}$ C Relative Humidity: 30-60%

Air Pressure 990hPa-1040hPa

Note: The climatic requirements above are general exclude the special requirements for dedicated test environments listed in section 5 and some specific test cases in other parts of this report.

1.3. Project data

Project Leader: Zi Xiaogang
Testing Start Date: 2013-09-22
Testing End Date: 2013-09-28

1.4. Signature

Zi Xiaogang

登晚刚

(Prepared this test report)

Sun Xiangqian

(Reviewed this test report)

路城村

Lu Bingsong

Deputy Director of the laboratory

(Approved this test report)





2. Client Information

2.1. Applicant Information

Company Name: Sony Mobile Communications AB

Sony Mobile R&D Center, No. 16, Guangshun South Street, Address /Post:

Chaoyang District

City: Beijing
Postal Code: 100102
Country: China
Contact Person: Ma, Gang

Telephone: +86-10-58656312 Fax: +86-10-58659049

2.2. Manufacturer Information

Company Name: Sony Mobile Communications AB

Address /Post: Sony Mobile R&D Center, No. 16, Guangshun South Street,

Chaoyang District

City: Beijing
Postal Code: 100102
Country: China
Contact Person: Ma, Gang

Telephone: +86-10-58656312 Fax: +86-10-58659049



3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description GSM/WCDMA/LTE mobile phone

Type PM-0610-BV FCC ID PY7PM-0610

Frequency Range ISM 2400MHz~2483.5MHz

Number of Channels 79

Cellular Frequency Band GSM 850/900/1800/1900

UMTS Band 1/5/6/19 LTE Band 1/3/19/21

Support Functions MP3, camera, USB memory, Mobile High-Definition Link

(MHL), FM radio, GPS receiver, NFC, Bluetooth (EDR and Low Energy), ANT+, WLAN (802.11 a/ac/b/g/n) and Wi-Fi

hotspot functions

Antenna Integrated Antenna
Power Supply 4.2VDC by Battery

Note: Photographs of EUT are shown in ANNEX C of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	S/N	IMEI	HW Version	SW Version
N21	CB5A1UTAH5	004402541005405	Α	14.1.H.0.436
N45	CB5A1UQQDV	004402541004937	Α	14.1.H.0.436

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN	Revision
#22974	Travel Charger	8512W19 200056	1C
#24009	USB Cable	123307DD003654E	1

#22974

Commercial name EP880

Type AC-0400-EU

Manufacturer SALCOMP

Length of cable 98.5 cm (length of USB cable)

#24009

Commercial name EC801
Type AI-0401
Manufacturer Sony Mobile
Length of cable 98.5 cm



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

3.4. Normal Accessory setting

Fully charged battery was used during the test

3.5. General Description

The Equipment Under Test (EUT) is a model of GSM/WCDMA/LTE mobile phone with integrated antenna and inbuilt battery.

The EUT supports GSM 850/900/1800/1900MHz bands, WCDMA FDD band 1/5/6/19 and LTE FDD bands 1/3/19/21. It supports GPRS service with multi-slots class 33 and EGPRS service with multi-slots class 33. The HSDPA and HSUPA features are also supported.

It has MP3, camera, USB memory, Mobile High-Definition Link (MHL), FM radio, GPS receiver, NFC, Bluetooth (EDR and Low Energy), ANT+, WLAN (802.11 a/ac/b/g/n) and Wi-Fi hotspot functions. For WLAN 802.11n, it supports 20MHz bandwidth on 2.4GHz band and 20MHz/40MHz bandwidths on 5GHz/5.8GHz band. For WLAN 802.11 ac, it supports 20MHz/40MHz/80MHz bandwidths.

It consists of normal options: battery and travel charger.

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



4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

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

The same and grant and a same as a same a same as a same as a same as a same a same a same a same a same a			
	FCC CFR 47, Part 15, Subpart C:		
	15.205 Restricted bands of operation;		
FCC Part15	15.209 Radiated emission limits, general requirements;	10–1–12	
	15.247 Operation within the bands 902–928MHz,	Edition	
	2400–2483.5 MHz, and 5725–5850 MHz.		
Frequency Allocations and Radio Treaty Matters;		10–1–12	
FCC Part 2	General Rules and Regulations	Edition	
ANCI 002 40	American National Standard for Testing Unlicensed	2000	
ANSI C63.10	Wireless Devices	2009	



5. LABORATORY ENVIRONMENT

Semi-anechoic chamber (23 meters × 17meters × 10meters) did not exceed following limits along the EMC testing:

and in grant and	
Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	$<\pm3.2$ dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

Control room/ conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 35 ℃
Relative humidity	Min. =20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (6.8 meters × 3.08 meters × 3.53 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

Fully-anechoic chamber2 (8.6 meters × 6.1 meters × 3.85 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 $^{\circ}$ C, Max. = 30 $^{\circ}$ C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	<1Ω
Uniformity of field strength	Between 0 and 6 dB, from 80 to 4000 MHz

Fully-anechoic chamber3 (10 meters × 6.7 meters × 6.15 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 $^{\circ}$ C, Max. = 30 $^{\circ}$ C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω
Site voltage standing-wave ratio (S _{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz

Additional Humidity Requirements for Electrostatic Discharge Test: Min. = 30%, Max. = 60%.



6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

Abbreviations used in this clause:

- **P** Pass, The EUT complies with the essential requirements in the standard.
- **F** Fail, The EUT does not comply with the essential requirements in the standard
- NA Not Applicable, The test was not applicable
- NP Not Performed, The test was not performed by TMC

SUMMARY OF MEASUREMENT RESULTS	Sub-clause	Verdict
Occupied Bandwidth	2.1049	Р
Duty Cycle Calculation	15.35	Р
Fundamental Field Strength Level	15.249	Р
Radiated Emission	15.205, 15.209,15.249	Р
AC Powerline Conducted Emission	15.207	Р

Please refer to ANNEX A for detail.



6.2. Statements

TMC has evaluated the test cases requested by the applicant /manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.2

The EUT met all requirements of the standards or reference documents.

This report only deals with the ANT+ functions among the features described in section 3.

6.3. Test Conditions

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage
V min	Low Voltage
V max	High Voltage
H nom	Norm Humidity
A nom	Norm Air Pressure

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	T nom	25℃
Voltage	V nom	4.2V (By battery)
Humidity	H nom	40%
Air Pressure	A nom	1010hPa



7. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSU26	200030	Rohde & Schwarz	2014-06-12

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESU26	100376	Rohde & Schwarz	2013-11-07
2	EMI Antenna	VULB 9163	9163482	Schwarzbeck	2014-02-17
3	EMI Antenna	3117	00119024	EMCO	2014-02-03
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	ETS-Lindgren	2014-06-30
5	Dual-Ridge Waveguide Horn Antenna	3116	2661	ETS-Lindgren	2014-06-30
6	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2014-03-17
7	Pre-amplifier(18GHz)	SCU18	1005277	Rohde & Schwarz	1
8	Pre-amplifier(26.5GHz)	SCU26	1006788	Rohde & Schwarz	1

Anechoic chamber

Fully anechoic chamber by Frankonia German.

Note: The pre amplifiers is calibrated with routes calibration every time before test, therefore no need for the calibration date.

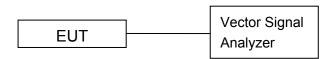


ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode (Transmitter, receiver or transmitter & receiver).
- 3). Set the EUT to the required channel.
- 4). Set the EUT hopping mode (hopping or hopping off).
- 5). Set the spectrum analyzer to start measurement.
- 6). Record the values. Vector Signal Analyzer



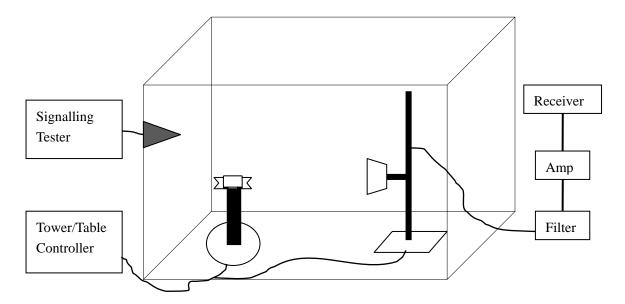
A.1.2. Radiated Emission Measurements

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 1MHz;





A.2. Occupied Bandwidth

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 2.1049	N/A

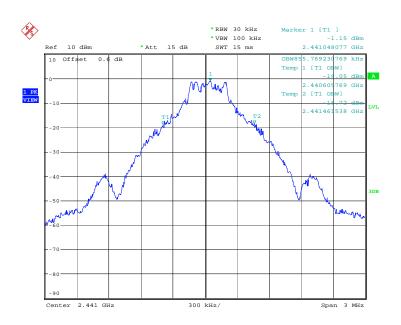
Measurement Condition:

RBW=30KHz; VBW=100KHz; SPAN=3MHz; Detector: peak

Measurement Result:

Channel	Channel Occupied Bandwidth		Conclusion
39 Fig.1		855.77	Р

Conclusion: PASS
Test graphs as below



Date: 27.SEP.2013 11:09:07

Fig.1. Occupied Bandwidth: Channel39



A.3. Duty Cycle Calculation

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.35	N/A

An average radiated field strength can be determined by applying a duty cycle correction factor to a measured peak radiated field strength level. The duty cycle correction factor is determined based on the worst case operation over a 100ms time period on any given channel.

Measurement Results:

Channel pulse width(µs)		width(µs)	Conclusion
39	Fig.2	184.29	Р

Channel	operation time ove	r a 100ms time period	Conclusion
39	Fig.3	27	Р

DCCF = 20lg(number of hits \times (worst case 100ms operation / 100ms)) = 20lg(27 \times (0.18429ms / 100ms))= -26.06dB

Date: 27.SEP.2013 11:16:04

Test graphs as below

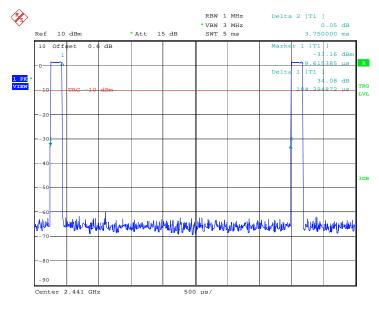
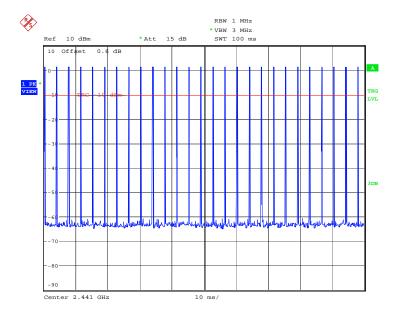


Fig.2. pulse width: Channel 39





Date: 27.SEP.2013 11:19:45

Fig.3. Worst Case 100ms Operation: Channel 39



A.4. Fundamental Field Strength Level

Measurement Limit:

Standard	Limit	
FCC 47 CFD Dort 45 240	Average field strength< 50mV/m (94.0dBµV/m)	
FCC 47 CFR Part 15.249	Peak field strength< 500mV/m (114.0dBμV/m)	

Measurement is made while the EUT is operating in non-hopping transmission mode. The field strengths shown below are measured using a spectrum analyzer. Peak field strength measurements are performed in the analyzer's swept spectrum mode using a peak detector with RBW=3MHz and VBW \geqslant RBW. Average field strength data is determined by applying the duty cycle correction factor(DCCF).

Measurement Results:

Frequency	Field Strength	Cabla lass(dD)	AF	Pmea	Pol	Detector		Corrected Level	Limit	Margin
(MHz)	(dBµV/m)	Cable loss(dB)	(dB)	(dBµV/m)	[H/V]	Detector	Duty Cycle(dB)	(dBµV/m)	(dBµV/m)	(dB)
2408.889	90.0	-27.0	30.7	86.303	Н	Peak	0.00	90.0	114.0	24.0
2408.889	90.0	-27.0	30.7	86.303	Н	Peak	-26.06	63.9	94.0	30.1
2440.896	91.3	-27.2	30.6	87.942	Н	Peak	0.00	91.3	114.0	22.7
2440.896	91.3	-27.2	30.6	87.942	Н	Peak	-26.06	65.2	94.0	28.8
2479.912	91.0	-27.4	31.1	87.272	Н	Peak	0.00	91.0	114.0	23.0
2479.912	91.0	-27.4	31.1	87.272	Н	Peak	-26.06	64.9	94.0	29.1

Conclusion: PASS



A.5. Radiated Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.205, 15.209,15.249	Listed as follows

Frequency (MHz) Field	Field strength	Measurement distance	
strength	(microvolts/meter)	(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	
Above 960	500	3	

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission	Field strength(uV/m)	Field strength(dBuV/m)					
(MHz)							
30-88	100	40					
88-216	150	43.5					
216-960	200	46					
Above 960	500	54					

Test Condition

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.

Frequency of emission	RBW/VBW	Sweep Time(s)	
(MHz)			
0.009-30	100KHz/300KHz	5	
30-1000	100KHz/300KHz	5	
1000-4000	1MHz/1MHz	15	
4000-18000	1MHz/1MHz	40	
18000-26500	1MHz/1MHz	20	

Measurement Results:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable los.

The measurement results are obtained as described below:



Result=P_{Mea}+A_{Rpl}

Frequency	Frequency Range	Test Results	Conclusion
	30 MHz ~ 1 GHz	Fig.4	Р
2402MHz	1 GHz ~ 3 GHz	Fig.5	Р
Z40ZIVII IZ	3 GHz ~ 18 GHz	Fig.6	Р
	18 GHz ~ 26 GHz	Fig.7	Р
	30 MHz ~ 1 GHz	Fig.8	Р
2440 MHz	1 GHz ~ 3 GHz	Fig.9	Р
2440 1011 12	3 GHz ~ 18 GHz	Fig.10	Р
	18 GHz ~ 26 GHz	Fig.11	Р
	30 MHz ~ 1 GHz	Fig.12	Р
2480 MHz	1 GHz ~ 3 GHz	Fig.13	Р
2400 1011 12	3 GHz ~ 18 GHz	Fig.14	Р
	18 GHz ~ 26 GHz	Fig.15	Р
Power	2.38GHz~2.4GHzL	Fig.16	Р
Power	2.45GHz~2.5GHzH	Fig.17	Р

Note: Only worst case result is given.

Conclusion: PASS
Test graphs as below:



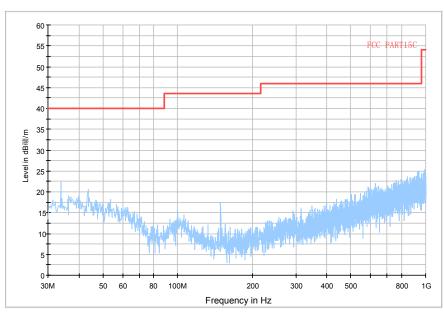


Fig.4. Radiated emission: Channel 0, 30 MHz - 1 GHz





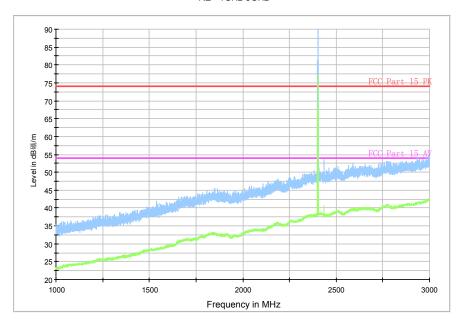


Fig.5. Radiated emission: Channel 0, 1 GHz - 3 GHz



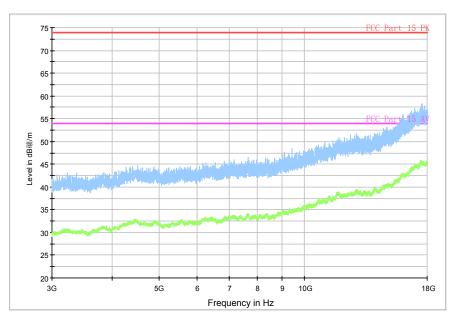


Fig.6. Radiated emission: Channel 0, 3 GHz - 18 GHz



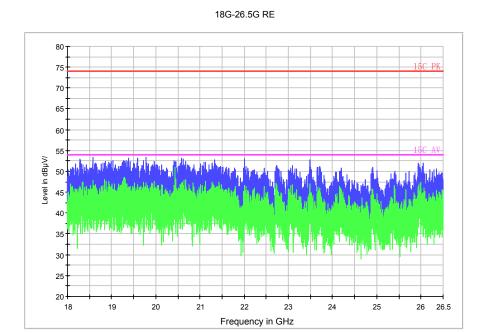


Fig.7. Radiated emission: Channel 0, 18 GHz ~ 26 GHz

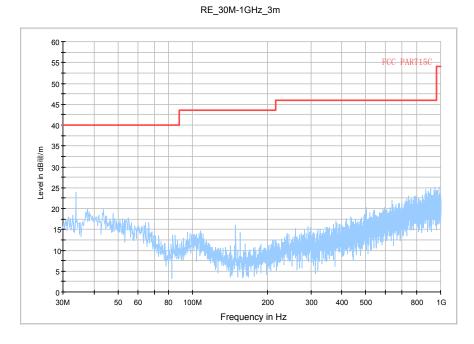


Fig.8. Radiated emission: Channel 39, 30 MHz - 1 GHz





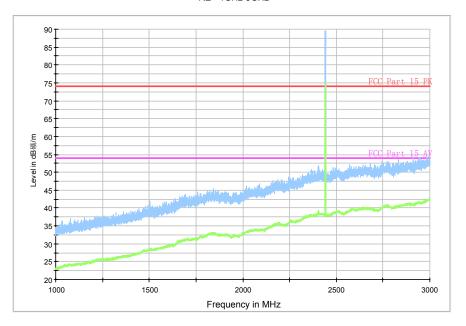


Fig.9. Radiated emission: Channel 39, 1 GHz - 3 GHz



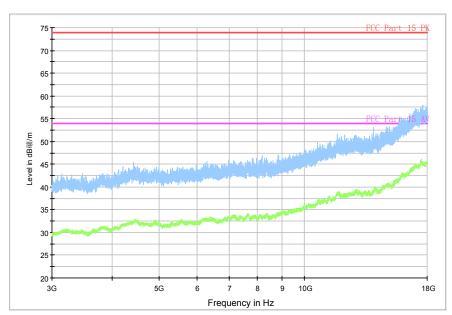


Fig.10. Radiated emission: Channel 39, 3 GHz - 18 GHz



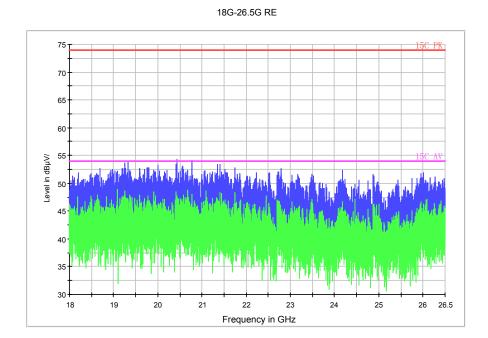


Fig.11. Radiated emission: Channel 39, 18 GHz ~ 26 GHz

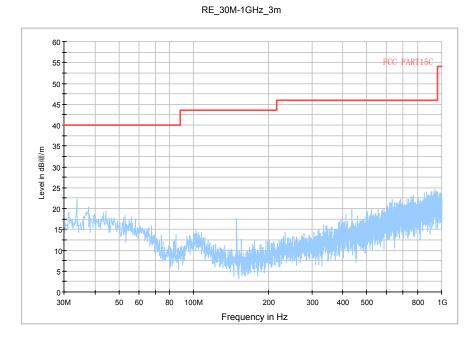


Fig.12. Radiated emission: Channel 78, 30 MHz - 1 GHz





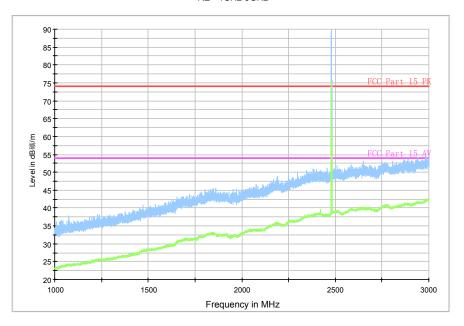


Fig.13. Radiated emission: Channel 78, 1 GHz - 3 GHz



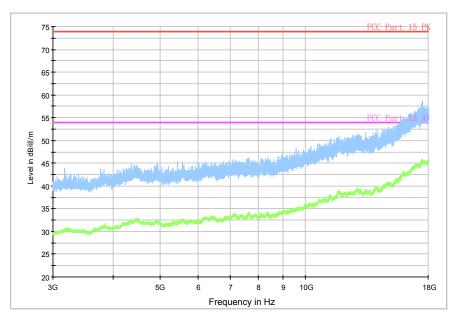
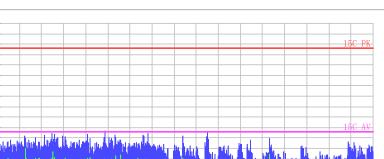


Fig.14. Radiated emission: Channel 78, 3 GHz - 18 GHz



70 65 60

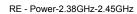
25



18G-26.5G RE

Fig.15. Radiated emission: Channel 78, 18 GHz \sim 26 GHz

Frequency in GHz



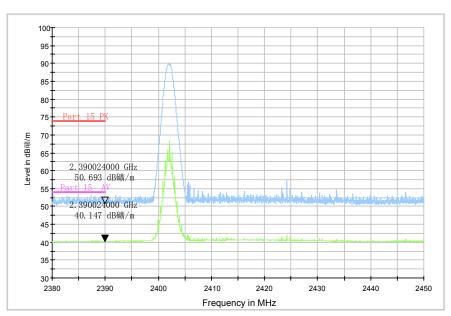


Fig.16. Radiated emission (Power): Low Channel





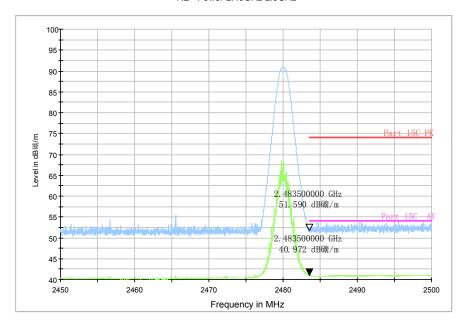


Fig.17. Radiated emission (Power): High Channel



A.6. AC Powerline Conducted Emission

Standard	Limit
FCC 47 CFR Part 15.207	See below

Test Condition

Voltage (V)	Frequency (Hz)	
120	60	

Measurement Result and limit:

Quasi-peak:

Frequency range	Quasi-peak	Result	Canalusian	
(MHz)	Limit (dBμV)	With C	Conclusion	
0.15 to 0.5	66 o 56	Fig 10	Fig 10	
0.5 to 5	56	Fig.18. (TX Mode)	Fig.19. (Idle Mode)	Р
5 to 30	60	(17 Mode)	(lule Mode)	

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

Average:

Frequency range	Average Limit	Result	Canalusian	
(MHz)	(dBμV)	With C	Conclusion	
0.15 to 0.5	56 to 46	Fia 10	Fia 10	
0.5 to 5	46		Fig.19.	Р
5 to 30	50	(1X Mode)	(Idle Mode)	

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

Note: the graphic result above is the maximum of the measurements for both phase line and neutral line.

Conclusion: PASS
Test graphs as below:



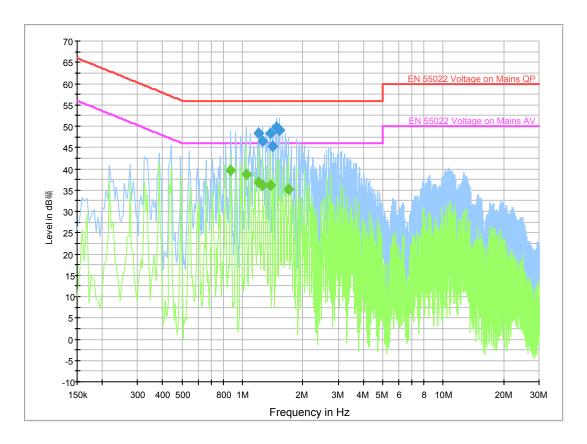


Fig.18 AC Powerline Conducted Emission with charger-TX Mode

Final Result 1

	-					
Frequency	QuasiPeak	PE	Line	Corr.	Margin	Limit
(MHz)	(dBµV)			(dB)	(dB)	(dBµV)
1.207501	48.3	GND	N	9.9	7.7	56.0
1.257001	46.5	GND	N	9.9	9.5	56.0
1.374001	48.3	GND	N	9.9	7.7	56.0
1.414501	45.4	GND	L1	9.9	10.6	56.0
1.482001	49.9	GND	N	9.9	6.1	56.0
1.531501	49.1	GND	N	9.9	6.9	56.0

Final Result 2

Frequency (MHz)	CAverag e (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.874501	39.5	GND	N	9.9	6.5	46.0
1.041001	38.7	GND	N	9.9	7.4	46.0
1.207501	36.8	GND	N	9.9	9.2	46.0
1.257001	36.2	GND	N	9.9	9.8	46.0
1.374001	36.2	GND	N	9.9	9.8	46.0
1.698001	35.1	GND	N	9.9	10.9	46.0



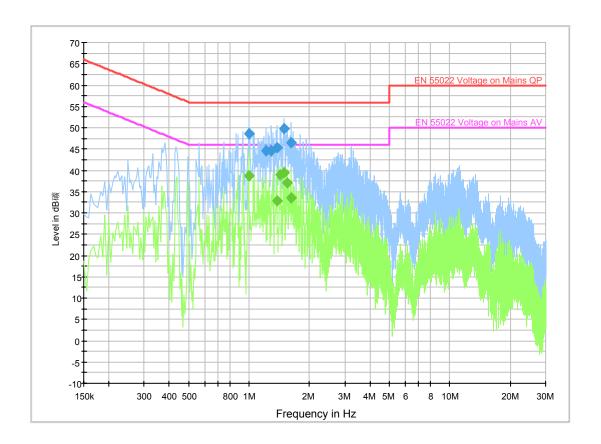


Fig.19 AC Powerline Conducted Emission with charger-Idle Mode

Final Result 1

Frequency	QuasiPeak	PE	Line	Corr.	Margin	Limit
(MHz)	(dBµV)			(dB)	(dB)	(dBµV)
0.996001	48.6	GND	N	9.9	7.4	56.0
1.212001	44.5	GND	N	9.9	11.5	56.0
1.293001	44.7	GND	N	9.9	11.3	56.0
1.378501	45.4	GND	N	9.9	10.6	56.0
1.486501	49.7	GND	N	9.9	6.3	56.0
1.621501	46.4	GND	N	9.9	9.6	56.0

Final Result 2

Frequency (MHz)	CAverag e (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.996001	38.8	GND	N	9.9	7.2	46.0
1.378501	32.8	GND	N	9.9	13.2	46.0
1.423501	39.0	GND	N	9.9	7.0	46.0
1.486501	39.4	GND	N	9.9	6.6	46.0
1.554001	37.0	GND	N	9.9	9.0	46.0
1.621501	33.6	GND	N	9.9	12.4	46.0