

FCC Test Report

FCC ID: QISY560-L03

Project No. : 1505C241A
Equipment : Smart Phone
Model Name : HUAWEI Y560-L03, Y560-L03
Applicant : Huawei Technologies Co., Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Date of Receipt : May 22, 2015
Date of Test : May 22, 2015 ~ Jun. 11, 2015
Issued Date : Jun. 12, 2015
Tested by : BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Table of Contents	Page
1 . CERTIFICATION	5
2 . SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
3 . GENERAL INFORMATION	8
3.1 GENERAL DESCRIPTION OF EUT	8
3.2 DESCRIPTION OF TEST MODES	9
3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	10
3.4 DESCRIPTION OF SUPPORT UNITS	10
4 . EMC EMISSION TEST	11
4.1 CONDUCTED EMISSION MEASUREMENT	11
4.1.1 POWER LINE CONDUCTED EMISSION	11
4.1.2 TEST PROCEDURE	11
4.1.3 DEVIATION FROM TEST STANDARD	11
4.1.4 TEST SETUP	12
5.1.5 EUT OPERATING CONDITIONS	12
5.1.6 TEST RESULTS	12
4.2 RADIATED EMISSION MEASUREMENT	13
4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	13
4.2.2 TEST PROCEDURE	14
4.2.3 DEVIATION FROM TEST STANDARD	14
4.2.4 TEST SETUP	15
4.2.5 EUT OPERATING CONDITIONS	15
5.2.6 TEST RESULTS (30 TO 1000 MHZ)	16
5.2.7 TEST RESULTS (ABOVE 1000 MHZ)	16
5 . MEASUREMENT INSTRUMENTS LIST	17
ATTACHMENT A - CONDUCTED EMISSION	18
ATTACHMENT B - RADIATED EMISSION (30MHZ TO 1000MHZ)	19
ATTACHMENT C - RADIATED EMISSION (ABOVE 1000MHZ)	22

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCE-1-1505C241	Original report.	Jun. 04, 2015
BTL-FCCE-1-1505C241A	Compared with previous report (BTL-FCCE-1-1505C241), model HUAWEI Y560-L23, Y560-L23 support dual cards, and now, model HUAWEI Y560-L03, Y560-L03 only support single card, so the radiated emission by worst case has been retested and record in this report, the original models' test results please refer to original report.	Jun. 12, 2015

1. CERTIFICATION

Equipment : Smart Phone
Brand Name : HUAWEI
Model Name : HUAWEI Y560-L03, Y560-L03
Applicant : Huawei Technologies Co., Ltd.
Manufacturer : Huawei Technologies Co., Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C
Date of Test : May 22, 2015 ~ Jun. 11, 2015
Standard(s) : FCC Part 15, Subpart B:2014
ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCE-1-1505C241A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

EMC Emission				
Standard(s)	Test Item	Limit	Judgment	Remark
FCC Part15, Subpart B:2014 ANSI C63.4-2009	Conducted Emission	Class B	N/A	Note(1)
	Radiated Emission	Class B	PASS	

NOTE:

(1) " N/A" denotes test is not applicable in this test report.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of B1, No. 37, Lane 365, Yang-Guang St., Nei-Hu District, Taipei City 114, Taiwan.

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95%**.

A. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	Note
CB08	CISPR	30MHz ~ 200MHz	V	3.22	
		30MHz ~ 200MHz	H	3.55	
		200MHz ~ 1,000MHz	V	3.24	
		200MHz ~ 1,000MHz	H	3.11	
		1,000MHz ~18,000MHz	V	4.05	
		1,000MHz ~ 18,000MHz	H	3.97	
		18,000MHz ~ 40,000MHz	V	4.04	
		18,000MHz ~ 40,000MHz	H	4.01	

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone
Brand Name	HUAWEI
Model Name	HUAWEI Y560-L03, Y560-L03
Model Difference	Only differ in model name.
Power Source	#1 DC Voltage supplied from AC/DC adapter. Brand/Model: HUAWEI / HW-050100U01(US) Brand/Model: HUAWEI / HW-050100E01(EU) #2 Supplied from battery. Brand/Model: HUAWEI / HB474284RBC
Power Rating	#1 I/P: 100-240V~ 50/60H 0.2A O/P: DC 5V 1A #2 DC 3.8V 2000mAh

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT's maximum operating frequency is 4GHz

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

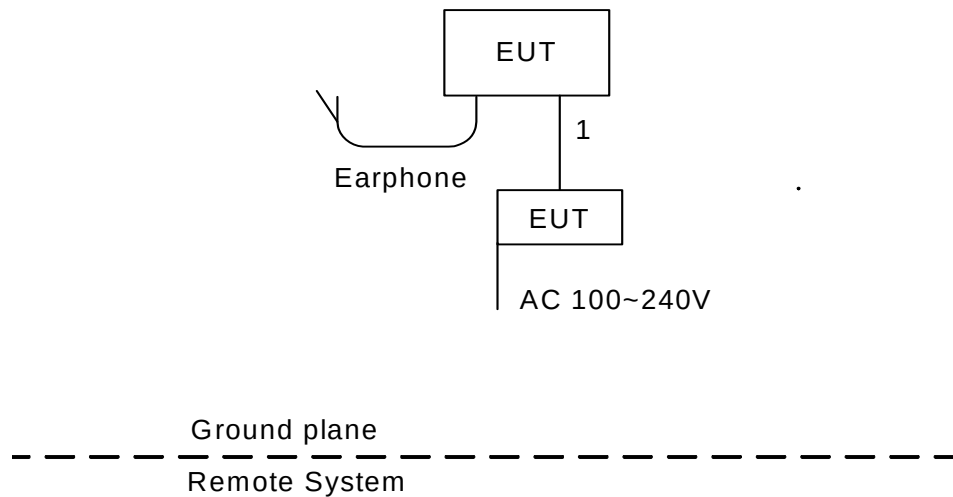
Pretest Mode	Description
Mode 1	Adapter+earphone+camera on+idle
Mode 2	Adapter+earphone+playing+idle
Mode 3	Adapter+Speaker+playing+idle
Mode 4	Adapter+Speaker+Traffic
Mode 5	Adapter+earphone+Traffic
Mode 6	USB copy(EUT with PC)+earphone+idle

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Radiated Test (30MHZ TO 1000MHZ)	
Final Test Mode	Description
Mode 1	Adapter+earphone+camera on+idle

For Radiated Test (ABOVE 1000MHZ)	
Final Test Mode	Description
Mode 1	Adapter+earphone+camera on+idle
Mode 5	Adapter+earphone+Traffic

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
-	-	-	--	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
1	YES	NO	-	USB Cable

Note:

- (1) For detachable type I/O cable should be specified the length in m in 『Length』 column.

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

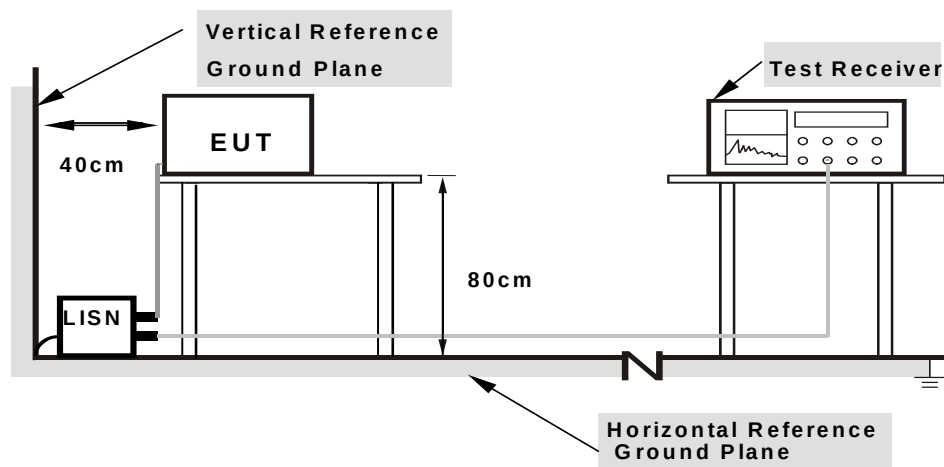
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

5.1.5 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use.

5.1.6 TEST RESULTS

Please refer to the Attachment A.

Temperature: N/A Relative Humidity: N/A

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “ * ” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	Class A (at 10m)		Class B (at 3m)	
	(uV/m) Field strength	(dBuV/m) Field strength	(uV/m) Field strength	(dBuV/m) Field strength
30 - 88	90	39	100	40
88 - 216	150	43.5	150	43.5
216 - 960	210	46.4	200	46
Above 960	300	49.5	500	54

CISPR 22 or CAN/CSA-CISPR 22-10:

Frequency (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	
30 - 230	40	30
230 - 1000	47	37

Above 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	Class A				Class B	
	(dBuV/m) (at 3m)		(dBuV/m) (at 10m)		(dBuV/m) (at 3m)	
	Peak	Average	Peak	Average	Peak	Average
Above 1000	80	60	69.5	49.5	74	54

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to as following: FCC Part 15, Subpart B: 2014,.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m).
3m Emission level = 10m Emission level + 20log(10m/3m).
- (4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

4.2.2 TEST PROCEDURE

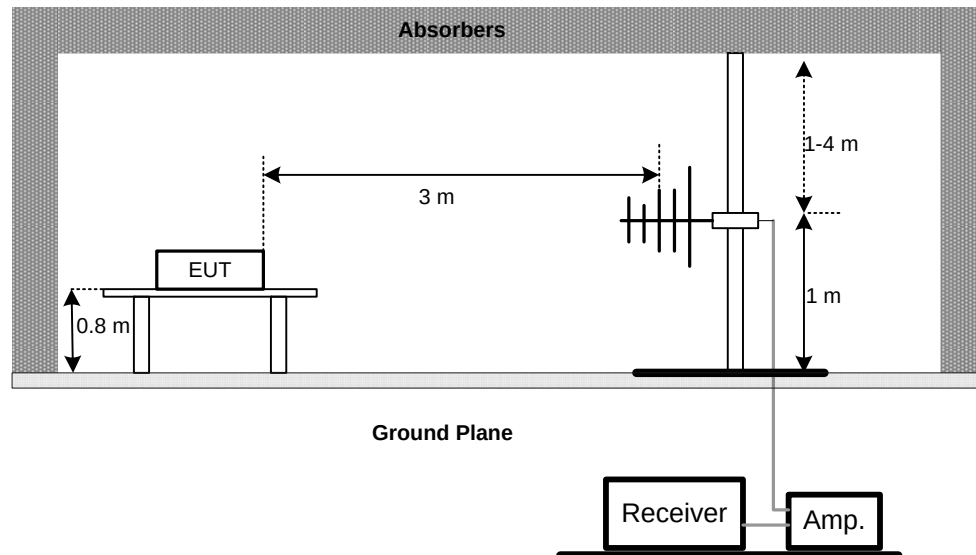
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

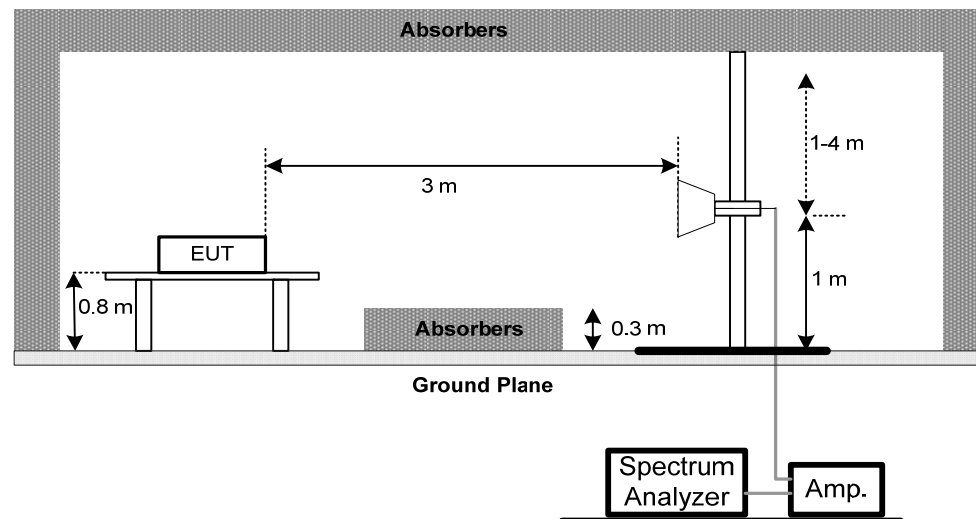
No deviation

4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

5.2.6 TEST RESULTS (30 TO 1000 MHZ)

Please refer to the Attachment B.

Temperature: 25°C Relative Humidity: 60%

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW=120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

5.2.7 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment C

Temperature: 25°C Relative Humidity: 60%

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (3) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

5. MEASUREMENT INSTRUMENTS LIST

Radiated Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9168	9168-352	Jul. 09, 2015
2	Pre-Amplifier	Anritsu	MH648A	M92649	Apr. 16, 2016
3	Test Cable	TIMES	LMR-400	12M	May 12, 2016
4	Test Cable	TIMES	LMR-400	3M	May 12, 2016
5	EMI Test Receiver	Agilent	N9038A	MY51210215	Apr. 21, 2016
6	Horn Antenna (1G)	Schwarzbeck	BBHA 9120 D	9120D-325	Jan. 11, 2016
7	Pre_Amplifier	Agilent	8449B	3008A01714	Apr. 14, 2016
8	Microflex Cable	HARBOUR INDUSTRIES	27478 LL142	1M	May 11, 2016
9	Microflex Cable	AISI	S104-SMAP-1	10M	May 13, 2016
10	Microflex Cable	HARBOUR INDUSTRIES	27478 LL142	3M	May 11, 2016
11	Spectrum Analyzer	R&S	FSP-40	100129	Oct. 13, 2015
12	Measurement Software	EZ	EZ_EMG (Version NB-03A)	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is one year.

ATTACHMENT A - CONDUCTED EMISSION

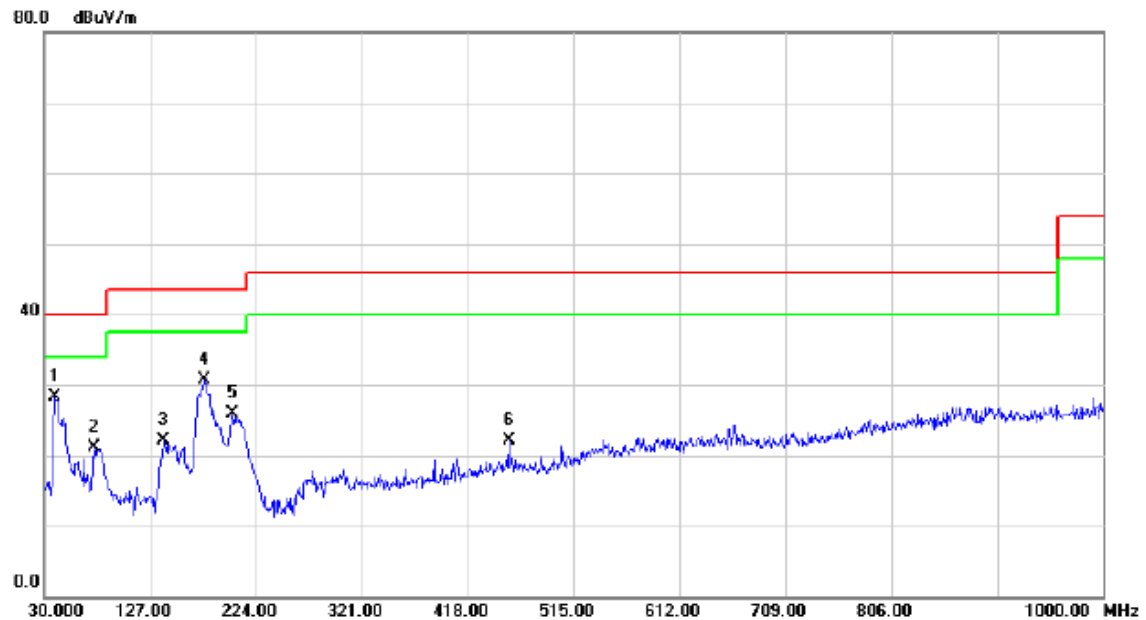
Test Mode: N/A

Note: "N/A" denotes test is not applicable to this device.

ATTACHMENT B - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Voltage:	AC 120V/60Hz
Test Mode:	Adapter+earphone+camera on+idle
Note:	Adapter: DAHONG

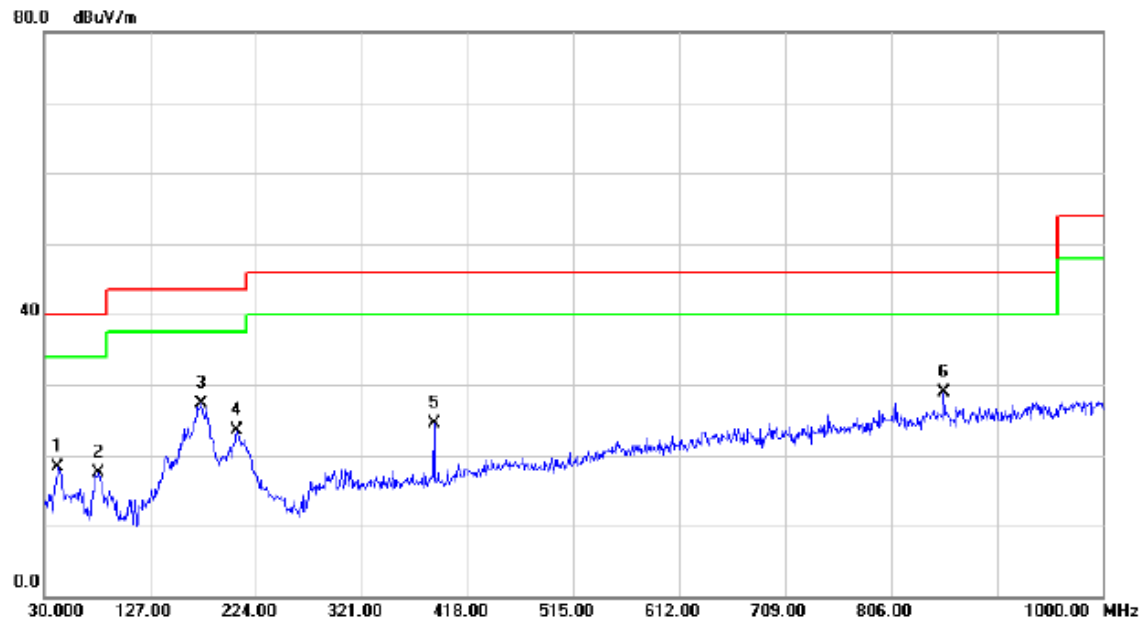
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	dBuV	Factor	ment			Detector	Comment
1	*	39.7000	43.22	-14.95	28.27	40.00	-11.73	QP	
2		75.5900	37.06	-16.05	21.01	40.00	-18.99	QP	
3		139.6100	36.11	-13.96	22.15	43.50	-21.35	QP	
4		176.4700	43.43	-12.79	30.64	43.50	-12.86	QP	
5		202.6600	40.51	-14.62	25.89	43.50	-17.61	QP	
6		455.8300	31.43	-9.40	22.03	46.00	-23.97	QP	

Test Voltage:	AC 120V/60Hz
Test Mode:	Adapter+earphone+camera on+idle
Note:	Adapter: DAHONG

Horizontal

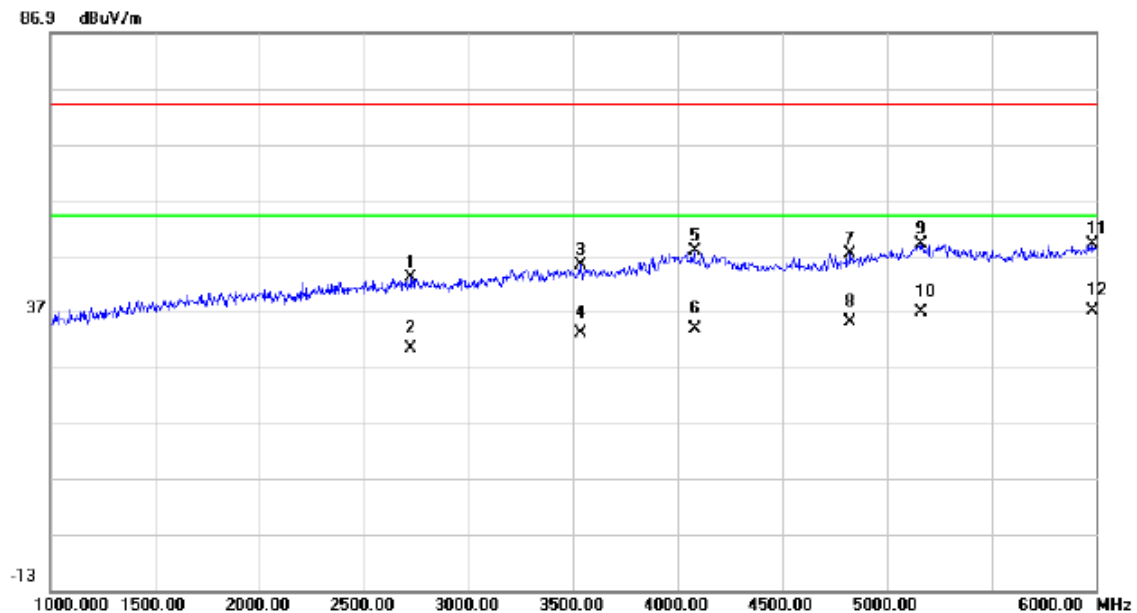


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		42.6100	33.43	-15.07	18.36	40.00	-21.64	QP	
2		79.4700	33.55	-16.00	17.55	40.00	-22.45	QP	
3	*	173.5600	40.17	-12.84	27.33	43.50	-16.17	QP	
4		206.5400	37.99	-14.58	23.41	43.50	-20.09	QP	
5		386.9600	35.34	-10.86	24.48	46.00	-21.52	QP	
6		854.5000	31.96	-3.08	28.88	46.00	-17.12	QP	

ATTACHMENT C - RADIATED EMISSION (ABOVE 1000MHZ)

Test Voltage:	AC 120V/60Hz
Test Mode:	Adapter+earphone+camera on+idle
Note:	Adapter: BYD (EU)

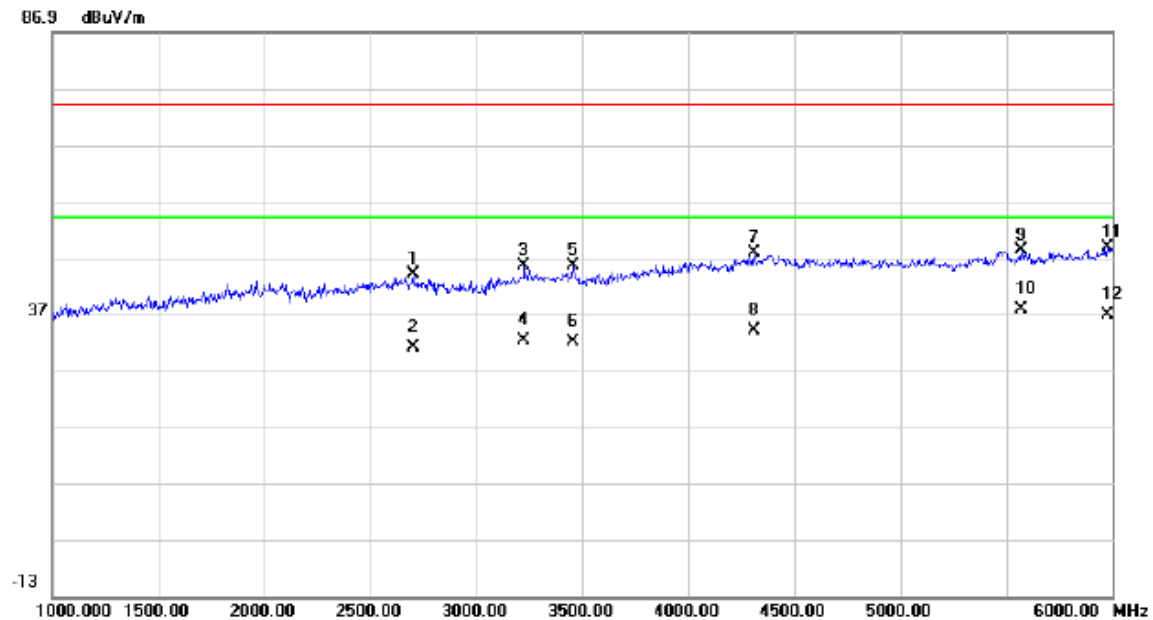
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2725.000	43.29	-0.34	42.95	74.00	-31.05	peak	
2		2725.000	30.54	-0.34	30.20	54.00	-23.80	AVG	
3		3535.000	43.48	1.80	45.28	74.00	-28.72	peak	
4		3535.000	31.26	1.80	33.06	54.00	-20.94	AVG	
5		4080.000	43.41	4.39	47.80	74.00	-26.20	peak	
6		4080.000	29.42	4.39	33.81	54.00	-20.19	AVG	
7		4825.000	41.47	5.87	47.34	74.00	-26.66	peak	
8		4825.000	29.12	5.87	34.99	54.00	-19.01	AVG	
9		5165.000	42.34	6.78	49.12	74.00	-24.88	peak	
10		5165.000	30.11	6.78	36.89	54.00	-17.11	AVG	
11		5985.000	40.33	8.58	48.91	74.00	-25.09	peak	
12	*	5985.000	28.35	8.58	36.93	54.00	-17.07	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Adapter+earphone+camera on+idle
Note:	Adapter: BYD (EU)

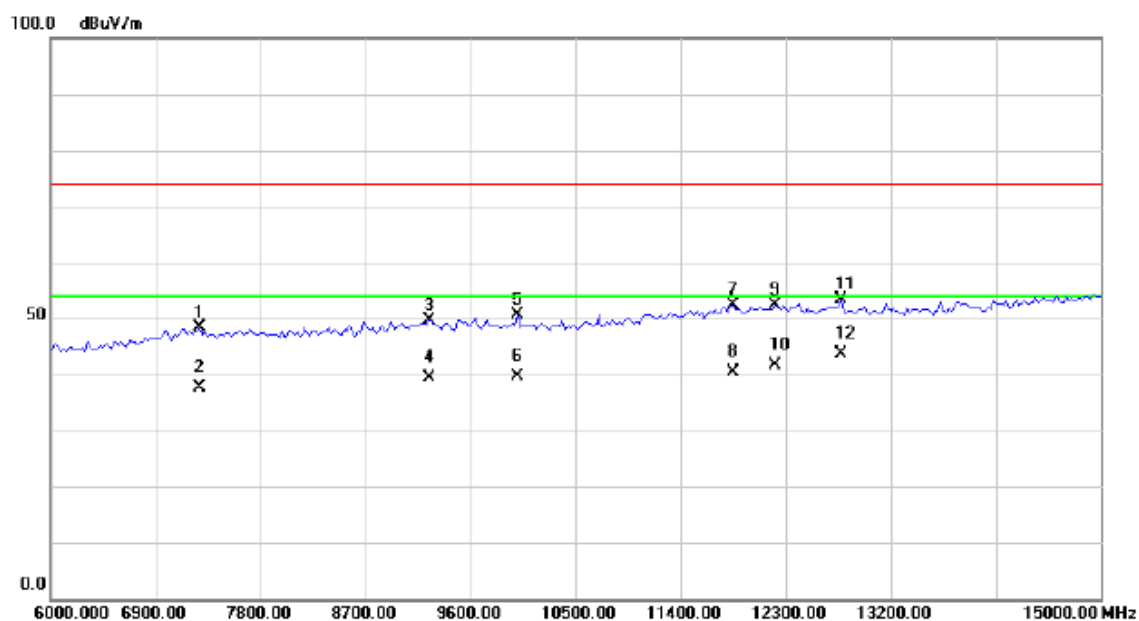
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2700.000	44.45	-0.37	44.08	74.00	-29.92	peak	
2		2700.000	31.52	-0.37	31.15	54.00	-22.85	AVG	
3		3225.000	44.77	0.75	45.52	74.00	-28.48	peak	
4		3225.000	31.62	0.75	32.37	54.00	-21.63	AVG	
5		3455.000	44.01	1.47	45.48	74.00	-28.52	peak	
6		3455.000	30.48	1.47	31.95	54.00	-22.05	AVG	
7		4310.000	42.97	4.74	47.71	74.00	-26.29	peak	
8		4310.000	29.41	4.74	34.15	54.00	-19.85	AVG	
9		5570.000	40.44	7.79	48.23	74.00	-25.77	peak	
10	*	5570.000	30.01	7.79	37.80	54.00	-16.20	AVG	
11		5975.000	40.25	8.57	48.82	74.00	-25.18	peak	
12		5975.000	28.23	8.57	36.80	54.00	-17.20	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Adapter+earphone+Traffic
Note:	Adapter: BYD

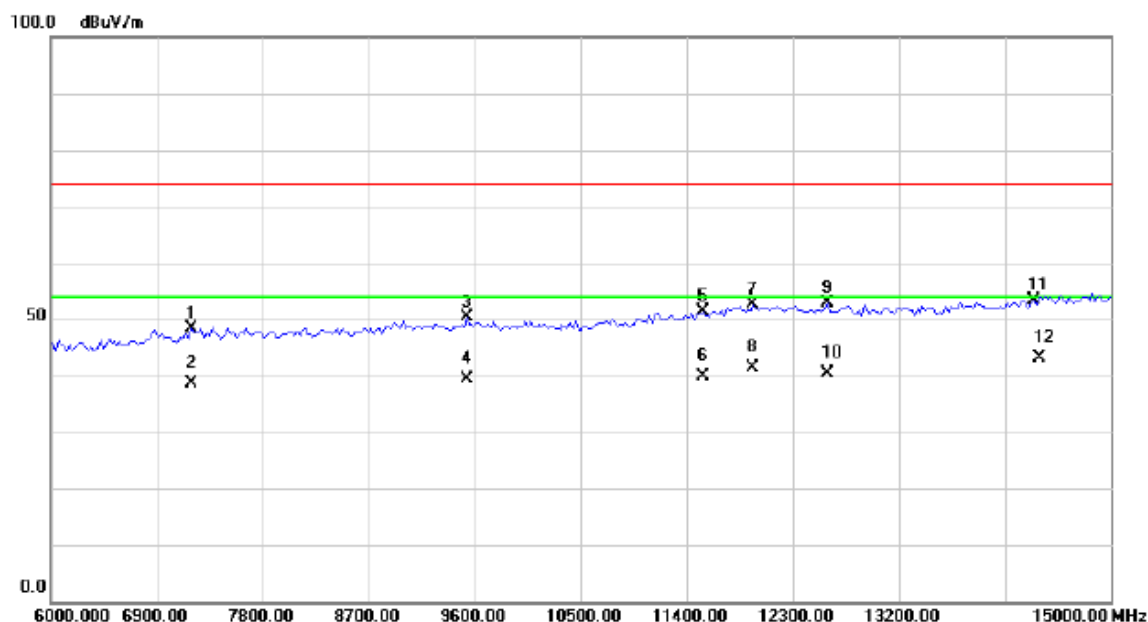
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7282.500	34.10	14.29	48.39	74.00	-25.61	peak	
2		7282.500	23.30	14.29	37.59	54.00	-16.41	AVG	
3		9240.000	32.78	16.92	49.70	74.00	-24.30	peak	
4		9240.000	22.38	16.92	39.30	54.00	-14.70	AVG	
5		10005.00	33.54	17.20	50.74	74.00	-23.26	peak	
6		10005.00	22.38	17.20	39.58	54.00	-14.42	AVG	
7		11850.00	31.67	20.68	52.35	74.00	-21.65	peak	
8		11850.00	19.58	20.68	40.26	54.00	-13.74	AVG	
9		12210.00	31.54	20.88	52.42	74.00	-21.58	peak	
10		12210.00	20.72	20.88	41.60	54.00	-12.40	AVG	
11		12772.50	32.27	20.99	53.26	74.00	-20.74	peak	
12	*	12772.50	22.61	20.99	43.60	54.00	-10.40	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Adapter+earphone+Traffic
Note:	Adapter: BYD

Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		7192.500	34.08	14.19	48.27	74.00	-25.73	peak	
2		7192.500	24.46	14.19	38.65	54.00	-15.35	AVG	
3		9532.500	33.17	17.15	50.32	74.00	-23.68	peak	
4		9532.500	22.32	17.15	39.47	54.00	-14.53	AVG	
5		11535.00	31.24	20.20	51.44	74.00	-22.56	peak	
6		11535.00	19.65	20.20	39.85	54.00	-14.15	AVG	
7		11962.50	31.67	20.85	52.52	74.00	-21.48	peak	
8		11962.50	20.41	20.85	41.26	54.00	-12.74	AVG	
9		12592.50	31.99	20.89	52.88	74.00	-21.12	peak	
10		12592.50	19.37	20.89	40.26	54.00	-13.74	AVG	
11		14347.50	30.52	22.78	53.30	74.00	-20.70	peak	
12	*	14347.50	20.28	22.78	43.06	54.00	-10.94	AVG	