

FCC RADIO TEST REPORT-BT 4.0 FCC ID: 2ABGW-AM2308G

Product: MID

Trade Name: ARTAB

Model Name: AM2308G

Serial Model: AM7001G

Report No.: NTEK-2014NT12022115F3

Prepared for

Hong Kong Topsky Technology Limited.

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Prepared by

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TEST RESULT CERTIFICATION

	. Hong Kong Topsky Technology Limited. Unit 5, 27/F., Richmond Commercial Building,109 Argyle Street, Mongkok, Kowloon,Hong Kong				
Manufacture's Name	Hong Kong To	opsky Technol	ogy Limited.		
Address	Unit 5, 27/F., Richmond Commercial Building,109 Argyle Street, Mongkok, Kowloon,Hong Kong				
Product description					
Product name	MID				
Model and/or type reference	AM2308G				
Serial Model	AM7001G				
Standards	FCC Part15.24	7: 01 Oct. 2014	1		
Test procedure	ANSI C63.4-20	003 and KDB 5	58074: June 5, 2014		
	UT) is in compli	iance with the F	C, and the test results show FCC requirements. And it is		
•	•	•	out the written approval of lall only, and shall be noted		
Date of Test					
Date (s) of performance	of tests 02	Dec. 2014 ~11	Dec. 2014		
Date of Issue					
Test Result					
Testing	ı Engineer	:	Darry Grany	-	
			Denny Huang		
Techni	cal Manager	:	Brown Lu	-	
			(Brown Lu)		
Author	ized Signatory	:	(Bill Yao)		
			,		



Table of Contents

	Page
1 . SUMMARY OF TEST RESULTS	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	8
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	D 9
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	10
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	11
3 . EMC EMISSION TEST	12
3.1 CONDUCTED EMISSION MEASUREMENT	12
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS	12
3.1.2 TEST PROCEDURE 3.1.3 DEVIATION FROM TEST STANDARD	13 13
3.1.4 TEST SETUP	13
3.1.5 EUT OPERATING CONDITIONS	13
3.1.6 TEST RESULTS	14
3.2 RADIATED EMISSION MEASUREMENT	16
3.2.1 RADIATED EMISSION LIMITS	16
3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD	17 17
3.2.4 TEST SETUP	18
3.2.5 EUT OPERATING CONDITIONS	19
3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)	20
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ) 3.2.8 TEST RESULTS (ABOVE 1000 MHZ)	21 23
4 . ANTENNA REQUIREMENT	25
4.1 STANDARD REQUIREMENT	25
4.2 EUT ANTENNA	25
5 . EUT TEST PHOTO APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	26



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247 (c)	Radiated Spurious Emission	PASS			
15.205	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

Note: This C2PC testing, the changed is: Only change the shape of the Mainboard and layout of board, Circuit and RF module are the same.



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	MID		
Trade Name	ARTAB		
Model Name	AM2308G		
Serial Model	AM7001G		
Model Difference	except the model nan	same circuit and RF module, ne and colour.	
	The EUT is a MID Operation Frequency:	2402~2480MHz	
	Modulation Type:	GFSK	
	Number Of Channel	40CH	
Product Description	Antenna Designation:	Please see Note 3.	
	Antenna Gain (dBi)	1.0dbi	
	Based on the application, features, or specification exhiluser's Manual, the EUT is considered as an ITE/Computeries. More details of EUT technical specification, please refer to the User's Manual.		
Channel List	Please refer to the No	ote 2.	
Ratings	DC 3.7V		
Adapter	Mode: FJ-SW0501500UU Input: 100-240V~,50/60Hz,0.35AMAX Output: 5.0V===, 1500mAh		
Battery	DC 3.7V, 2800mAh		
Connecting I/O Port(s)	Please refer to the Us	er's Manual	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.

Channel	Frequency (MHz)
00	240Ź
01	2404
•••••	
•••••	·····.
38	2478
39	2480

3

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	FPCB Antenna	N/A	1.0	BT Antenna



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates 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	CH00
Mode 2	CH19
Mode 3	CH39
Mode 4	Link Mode

For Conducted Emission			
Final Test Mode Description			
Mode 4	Link Mode		

For Radiated Emission			
Final Test Mode	Description		
Mode 1	CH00		
Mode 2	CH19		
Mode 3	CH39		
Mode 4	Link Mode		

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test

E-1 EUT



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	Brand	Model/Type No.	Series No.	Note
E-1	MID	ARTAB	AM2308G	N/A	EUT
E-2	Adapter	N/A	FJ-SW0501500UU	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.06.07	2015.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2013.12.22	2014.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year

Page 11 of 27

Conduction Test equipment

	Conduction rest equipment						
Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.08	2015.06.07	1 year

1	Attenuation	MCE	24-10-34	BN9258	2014.06.08	2015.06.07	1 year
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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

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

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

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.

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



3.1.2 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.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



Page 14 of 27

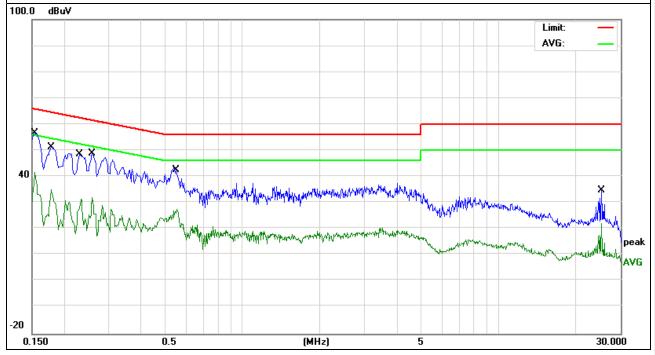
3.1.6 TEST RESULTS

EUT:	MID	Model Name. :	AM2308G
Temperature:	26 ℃	Relative Humidity:	56%
Pressure:	1010hPa	Phase :	L
TEST VOIDAGE .	DC 5V form Adapter AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.1539	46.93	9.63	56.56	65.78	-9.22	QP
0.1539	32.04	9.63	41.67	55.78	-14.11	AVG
0.1779	41.07	9.55	50.62	64.58	-13.96	QP
0.1779	25.57	9.55	35.12	54.58	-19.46	AVG
0.2340	39.20	9.46	48.66	62.30	-13.64	QP
0.2340	21.99	9.46	31.45	52.30	-20.85	AVG
0.2580	39.29	9.46	48.75	61.49	-12.74	QP
0.2580	22.49	9.46	31.95	51.49	-19.54	AVG
0.5540	33.27	9.46	42.73	56.00	-13.27	QP
0.5540	17.95	9.46	27.41	46.00	-18.59	AVG
25.2820	24.86	9.87	34.73	60.00	-25.27	QP
25.2820	12.32	9.87	22.19	50.00	-27.81	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



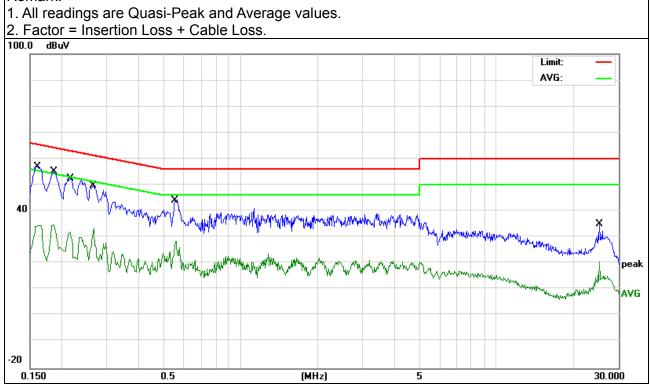


EUT:	MID	Model Name. :	AM2308G
Temperature :	26 ℃	Relative Humidity:	56%
Pressure :	1010hPa	Phase :	N
TEST VOUGOE .	DC 5V form Adapter AC 120V/60Hz	Test Mode :	Mode 4

Page 15 of 27

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.1620	47.34	9.60	56.94	65.36	-8.42	QP
0.1620	24.99	9.60	34.59	55.36	-20.77	AVG
0.1859	45.26	9.52	54.78	64.21	-9.43	QP
0.1859	25.24	9.52	34.76	54.21	-19.45	AVG
0.2139	42.33	9.47	51.80	63.05	-11.25	QP
0.2139	22.68	9.47	32.15	53.05	-20.90	AVG
0.2660	40.78	9.46	50.24	61.24	-11.00	QP
0.2660	24.02	9.46	33.48	51.24	-17.76	AVG
0.5580	32.24	9.46	41.70	56.00	-14.30	QP
0.5580	19.06	9.46	28.52	46.00	-17.48	AVG
25.2698	25.21	9.87	35.08	60.00	-24.92	QP
25.2698	10.79	9.87	20.66	50.00	-29.34	AVG

Remark:





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	(dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted	4 Mile / 4 Mile for Dook 4 Mile / 40//e for Average
band)	1 MHz / 1 MHz for Peak, 1 MHz / <i>10Hz</i> for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	1 MHz
Above 1000	Peak	1 MHz	10 Hz

3.2.3 DEVIATION FROM TEST STANDARD

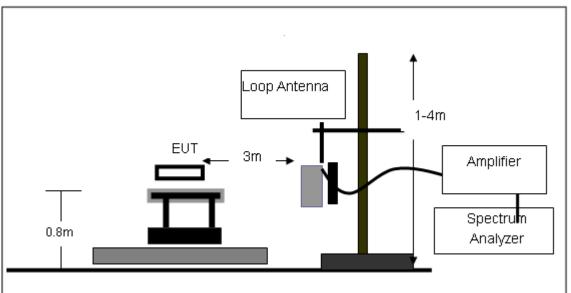
No deviation



3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

Page 18 of 27



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz









3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT:	MID	Model Name. :	AM2308G
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX	Polarization :	

Report No.: NTEK-2014NT12022115F3

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				N/A
		1		N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



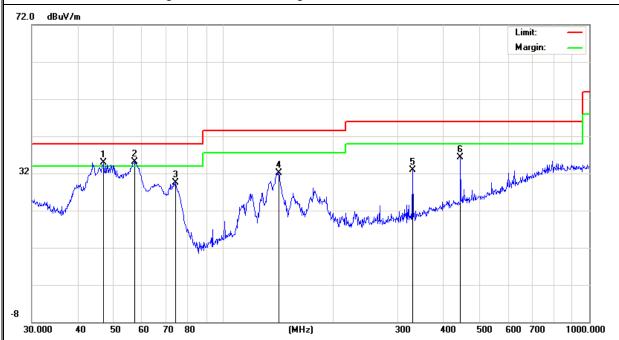
3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT:	MID	Model Name :	AM2308G
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	T.C.I.I.G.I.K
V	47.1599	23.57	11.40	34.97	40.00	-5.03	QP
V	57.3922	26.45	8.58	35.03	40.00	-4.97	QP
V	74.1350	23.83	5.69	29.52	40.00	-10.48	QP
V	141.8262	20.83	11.23	32.06	43.50	-11.44	QP
V	329.0389	17.56	15.36	32.92	46.00	-13.08	QP
V	444.8514	17.19	19.21	36.40	46.00	-9.60	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



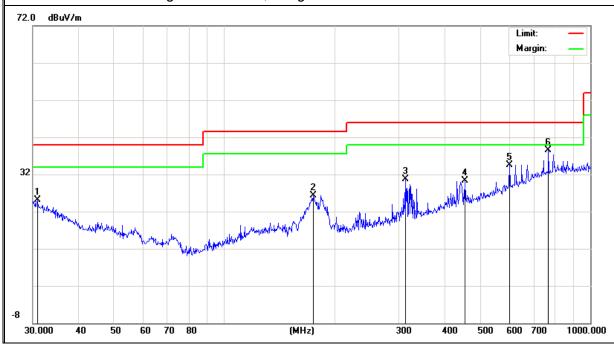


Meter **Emission** Frequency **Factor** Limits Margin **Polar** Reading Level Remark (H/V) (MHz) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) 30.8535 6.05 18.97 25.02 40.00 -14.98 QΡ Η 175.0365 10.59 43.50 -17.22 QΡ Η 15.69 26.28 312.1792 14.66 46.00 -15.39 QΡ Η 15.95 30.61 Н 454.3100 10.96 19.39 30.35 46.00 -15.65 QΡ Н 601.4265 12.16 22.44 34.60 46.00 -11.40 QΡ QΡ Н 768.7481 11.84 26.59 38.43 46.00 -7.57

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

Page 22 of 27





3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	MID	Model Name :	AM2308G
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX		

Page 23 of 27

Frequency (MHz)	Reading (dBµV)	Factor (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark	Polar (H/V)
		Low Cha	nnel (2402 MHz	z)-Above 1G			
4804.158	59.14	-3.64	62.78	74.00	-11.22	Pk	Vertical
4804.158	41.48	-3.64	45.12	54.00	-8.88	AV	Vertical
7206.263	59.29	-0.95	60.24	74.00	-13.76	Pk	Vertical
7206.263	37.42	-0.95	38.37	54.00	-15.63	AV	Vertical
4804.147	59.52	-3.64	63.16	74.00	-10.84	Pk	Horizontal
4804.147	42.38	-3.64	46.02	54.00	-7.98	AV	Horizontal
7206.205	57.49	-0.95	58.44	74.00	-15.56	Pk	Horizontal
7206.205	37.31	-0.95	38.26	54.00	-15.74	AV	Horizontal
Mid Channel (2440 MHz)-Above 1G							
4880.146	59.89	-3.68	63.57	74.00	-10.43	Pk	Vertical
4880.146	41.92	-3.68	45.60	54.00	-8.40	AV	Vertical
7320.255	59.28	-0.82	60.10	74.00	-13.90	Pk	Vertical
7320.255	40.12	-0.82	40.94	54.00	-13.06	AV	Vertical
4880.136	61.79	-3.68	65.47	74.00	-8.53	Pk	Horizontal
4880.136	44.92	-3.68	48.60	54.00	-5.40	AV	Horizontal
7320.321	59.22	-0.82	60.04	74.00	-13.96	Pk	Horizontal
7320.321	39.39	-0.82	40.21	54.00	-13.79	AV	Horizontal
		High Cha	innel (2480MHz	:)- Above 1G	ì		
4960.258	59.21	-3.59	62.80	74.00	-11.20	Pk	Vertical
4960.258	42.06	-3.59	45.65	54.00	-8.35	AV	Vertical
7440.133	57.68	-0.68	58.36	74.00	-15.64	Pk	Vertical
7440.133	41.94	-0.68	42.62	54.00	-11.38	AV	Vertical
4960.208	59.04	-3.59	62.63	74.00	-11.37	Pk	Horizontal
4960.208	42.22	-3.59	45.81	54.00	-8.19	AV	Horizontal
7440.182	60.57	-0.68	61.25	74.00	-12.75	Pk	Horizontal
7440.182	39.41	-0.68	40.09	54.00	-13.91	AV	Horizontal

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Commont
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
2390	57.07	-13.06	44.01	74	-29.99	peak	Vertical
2390	56.87	-13.06	43.81	74	-30.19	peak	Horizontal
2483.5	58.05	-12.78	45.27	74	-28.73	peak	Vertical
2483.5	58.05	-12.78	45.27	74	-28.73	peak	Horizontal

Note: Test method to see chapter 3.2. When PK value is lower than the Average value limit, average not record.



4. ANTENNA REQUIREMENT

4.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

4.2 EUT ANTENNA

	The EUT	antenna is FPCB	antenna. It	t comply	with the	standard	requirement.
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5. EUT TEST PHOTO



