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Report No.: SHEM130400052904

Page 1 of 23

TEST REPORT

Applicant: AXESSTEL,INC. FCC ID: PH7AX140 Equipment Under Test (EUT): NOTE: The following sample(s) submitted was/were identified on behalf of the client as Product Name: Home Alert Brand Name: Axesstel Model: AX140 Added Model: N/A Standards: FCC PART 15 Subpart C Section 15.249: 2012 Date of Receipt: Jun.25, 2013 Date of Issue: Jun.25, 2013 Test Result: PASS *		
FCC ID: PH7AX140 Equipment Under Test (EUT): NOTE: The following sample(s) submitted was/were identified on behalf of the client as Product Name: Home Alert Brand Name: Axesstel Model: AX140 Added Model: N/A Standards: FCC PART 15 Subpart C Section 15.249: 2012 Date of Receipt: Jun.25, 2013 Date of Issue: Jun.25, 2013	Application No. :	SHEM1304000529RF
Equipment Under Test (EUT): NOTE: The following sample(s) submitted was/were identified on behalf of the client as Product Name: Home Alert Brand Name: Axesstel Model: AX140 Added Model: N/A Standards: FCC PART 15 Subpart C Section 15.249: 2012 Date of Receipt: Jun.25, 2013 Date of Issue: Jun.25, 2013	Applicant:	AXESSTEL,INC.
NOTE: The following sample(s) submitted was/were identified on behalf of the client as Product Name: Home Alert Brand Name: Axesstel Model: AX140 Added Model: N/A Standards: FCC PART 15 Subpart C Section 15.249: 2012 Date of Receipt: Jun.25, 2013 Date of Issue: Jun.25, 2013	FCC ID:	PH7AX140
Product Name: Home Alert Brand Name: Axesstel Model: AX140 Added Model: N/A Standards: FCC PART 15 Subpart C Section 15.249: 2012 Date of Receipt: Jun.25, 2013 Date of Issue: Jun.25, 2013	Equipment Under Test (E	EUT):
Brand Name: Axesstel Model: AX140 Added Model: N/A Standards: FCC PART 15 Subpart C Section 15.249: 2012 Date of Receipt: Jun.25, 2013 Date of Test: Jun.25, 2013 to Jun.25, 2013 Date of Issue: Jun.25, 2013	NOTE: The following samp	ble(s) submitted was/were identified on behalf of the client as
Model: AX140 Added Model: N/A Standards: FCC PART 15 Subpart C Section 15.249: 2012 Date of Receipt: Jun.25, 2013 Date of Test: Jun.25, 2013 to Jun.25, 2013 Date of Issue: Jun.25, 2013	Product Name:	Home Alert
Added Model: N/A Standards: FCC PART 15 Subpart C Section 15.249: 2012 Date of Receipt: Jun.25, 2013 Date of Test: Jun.25, 2013 to Jun.25, 2013 Date of Issue: Jun.25, 2013	Brand Name:	Axesstel
Standards: FCC PART 15 Subpart C Section 15.249: 2012 Date of Receipt: Jun.25, 2013 Date of Test: Jun.25, 2013 to Jun.25, 2013 Date of Issue: Jun.25, 2013	Model:	AX140
Date of Receipt: Jun.25, 2013 Date of Test: Jun.25, 2013 to Jun.25, 2013 Date of Issue: Jun.25, 2013	Added Model:	N/A
Date of Test: Jun.25, 2013 to Jun.25, 2013 Date of Issue: Jun.25, 2013	Standards:	FCC PART 15 Subpart C Section 15.249: 2012
Date of Issue: Jun.25, 2013	Date of Receipt:	Jun.25, 2013
	Date of Test:	Jun.25, 2013 to Jun.25, 2013
Test Result : PASS *	Date of Issue:	Jun.25, 2013
	Test Result :	PASS *

^{*} In the configuration tested, the EUT complied with the standards specified above.

Tony Wu

Mpr. 2013

E&E Section Manager

SGS-CSTC (Shanghai) Co., Ltd.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



Report No.: SHEM130400052904

Page: 2 of 23

2 Version

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
00	/	Jun.25, 2013	/	Original				

Authorized for issue by:		
Engineer	Zenger Zhang	Zenger Zhang
	Print Name	
Clerk	Amy Wang Print Name	Any Wang
Reviewer	Keny Xu Print Name	Keny, Ku



Report No.: SHEM130400052904

Page: 3 of 23

3 Test Summary

Test Item	FCC Requirement	Test method	Result	
Antenna Requirement	Section 15.203	ANSI C63.10 (2009)	PASS	
AC Power Line	Section 15.207	ANSI C63.10 (2009)	PASS	
Conducted Emission	Section 15.207	ANSI 603.10 (2009)	FA33	
Field Strength of the	Section 15.249 (a)	ANSI C63.10 (2009)	PASS	
Fundamental Signal	Section 15.249 (a)	ANSI C63.10 (2009)	FASS	
Spurious Emissions	Section 15.249 (a)/15.209	ANSI C63.10 (2009)	PASS	
20dB Occupied	Section 15.215 (c)	ANSI C63.10 (2009)	PASS	
Bandwidth	360001 13.213 (C)	AINOI 003.10 (2009)	1 700	

N/A: Not applicable



Report No.: SHEM130400052904

Page: 4 of 23

4 Contents

		Page
1	COVER PAGE	1
2	VERSION	2
3	TEST SUMMARY	3
	CONTENTS	
4	CONTENTS	4
5	GENERAL INFORMATION	5
5.1	CLIENT INFORMATION	5
5.2		
5.3		
5.4		
5.5	5 DETAILS OF TEST MODE	5
5.6	5 TEST LOCATION	6
5.7		
5.8		
5.9		
5.1		6
5.1	1 TEST INSTRUMENTS LIST	7
6	TEST RESULTS AND MEASUREMENT DATA	8
6.1	ANTENNA REQUIREMENT	8
6.2	2 CONDUCTED EMISSIONS	9
6.3		
6.4	4 Spurious Emissions	15
6.5	5 20dB Bandwidth	21
7	TEST SETUP PHOTOGRAPHS	23
8	EUT CONSTRUCTIONAL DETAILS	23



Report No.: SHEM130400052904

Page: 5 of 23

5 General Information

5.1 Client Information

Applicant:	AXESSTEL, INC
Address of Applicant:	6815 Flanders Drive, Ste 210, San Diego, CA92121, USA
Manufacturer:	Axesstel (Shanghai) Ltd.
Address of Manufacturer:	Room 1101, Building 19, No.1515 Gumei Road, Xuhui District, Shanghai
Factory:	Eastcom incorporated Co., LTD.

5.2 General Description of EUT

Product Name: Home Alert	
Model No.(EUT): Axesstel	
Trade Mark:	AX140
Add Model No.:	N/A
Product Description:	Home Alert

5.3 Technical Specifications:

Operation Frequency:	908.42MHz/1Channel
Modulation Technique:	GFSK
Power Supply:	9V DC Battery or 5V DC Charger.
Antenna Type	Integral
Antenna Gain	0.5dBi

5.4 Support equipments for Testing

The EUT has been tested independently.

5.5 Details of Test Mode

Test Mode	Description of Test Mode			
Transmitting mode:	Keep the EUT on continuous transmitting mode			



Report No.: SHEM130400052904

Page: 6 of 23

5.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. No.588 West Jindu Road, Songjiang District, Shanghai, China.201612.

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

5.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

• FCC - Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

5.8 Deviation from Standards

None.

5.9 Abnormalities from Standard Conditions

None.

5.10 Other Information Requested by the Customer

None.



Report No.: SHEM130400052904

Page: 7 of 23

5.11 Test Instruments List

<u> </u>	1 Tost monantis List					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2013-6-2	2014-6-1
2	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-679	2013-6-2	2014-6-1
3	Horn Antenna	Rohde & Schwarz	HF906	100284	2013-6-2	2014-6-1
4	ANTENNA	SCHWARZBECK	VULB9168	9168-313	2013-6-2	2014-6-1
5	Ultra broadband antenna	Rohde & Schwarz	HL562	HL562 100227 2		2013-10-6
6	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY-2009P		2012-10-13	2013-10-12
7	CLAMP METER	FLUKE	316	86080010	2013-4-2	2014-4-1
8	Thermo- Hygrometer	ZHICHEN	ZC1-2	01050033	2012-10-13	2013-10-12
9	High-low temperature cabinet	Shanghai YuanZhen	GW2050		2013-6-2	2014-6-1
11	Tunable Notch Filter	Wainwright instruments Gmbh	WRCT1800.0/ 2000.0-0.2/40- 5SSK	11	2013-1-24	2014-1-23
12	Tunable Notch Filter	Wainwright instruments Gmbh	WRCT800.0/88 0.0-0.2/40- 5SSK	9	2013-1-24	2014-1-23
13	High pass Filter	FSCW	HP 12/2800- 5AA2	19A45-02	2013-4-2	2014-4-1
14	Low nosie amplifier	TESEQ	LNA6900	70133	2012-7-5	2013-7-4
15	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2013-6-2	2014-6-1
16	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2013-5-3	2014-5-2
18	AVG Power Sensor	Rohde & Schwarz	NRP-Z22	1137	2013-5-3	2014-5-2
20	Power meter	Rohde & Schwarz	NRP	101641	2013-5-3	2014-5-2
21	Active Loop Antenna	Beijing Daze	ZN30900A	0097	2012-10-28	2013-10-27



Report No.: SHEM130400052904

Page: 8 of 23

6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:

47 CFR Part 15C Section 15.203

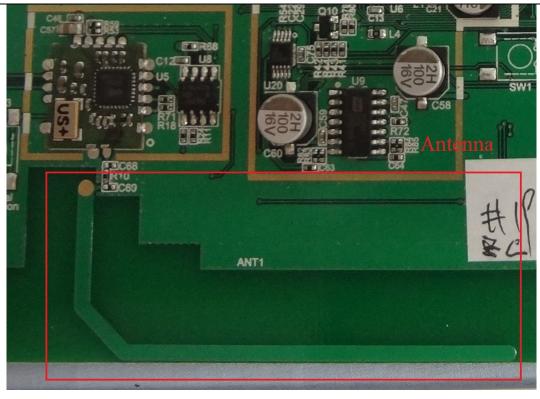
15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

Integral antenna

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.01dBi.





Report No.: SHEM130400052904

Page: 9 of 23

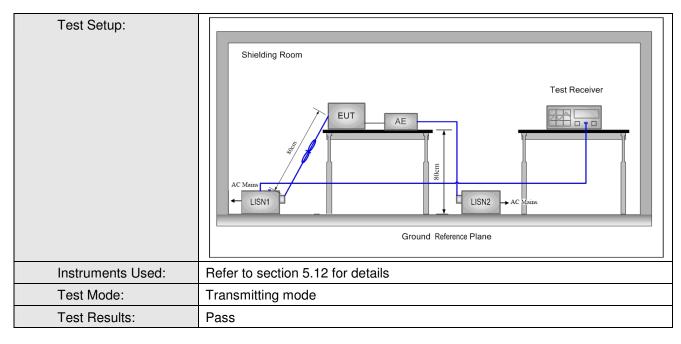
6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2009					
Test Frequency Range:	150KHz to 30MHz					
Limit:	Frequency range (MHz)	Limit (c	dBuV)			
	Frequency range (MHZ)	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 logarith	nm of the frequency.				
Test Procedure:	1) The mains terminal distur	rbance voltage test wa	s conducted in a			
	shielded room.					
	2) The EUT was connected	to AC power source th	nrough a LISN 1 (Line			
	Impedance Stabilization I	Network) which provide	es a 50Ω/50μH + 5Ω			
	linear impedance. The po	ower cables of all other	r units of the EUT			
	were connected to a seco	ond LISN 2, which was	s bonded to the			
	ground reference plane ir	n the same way as the	LISN 1 for the unit			
	being measured. A multip	ole socket outlet strip v	was used to connect			
	multiple power cables to	a single LISN provided	the rating of the			
	LISN was not exceeded.					
	3) The tabletop EUT was pla	aced upon a non-meta	Illic table 0.8m above			
	the ground reference plar	ne. And for floor-stand	ing arrangement, the			
	EUT was placed on the h	orizontal ground refere	ence plane,			
	4) The test was performed with a vertical ground reference plane. The					
	rear of the EUT shall be 0.4 m from the vertical ground reference					
	plane. The vertical ground	d reference plane was	bonded to the			
	horizontal ground reference plane. The LISN 1 was placed 0.8 m					
	from the boundary of the unit under test and bonded to a ground					
	reference plane for LISNs	s mounted on top of th	e ground reference			
	plane. This distance was	between the closest p	oints of the LISN 1			
	and the EUT. All other un		sociated equipment			
	was at least 0.8 m from the					
	5) In order to find the maxim		•			
	equipment and all of the interface cables must be change					
	according to ANSI C63.10	0: 2009 on conducted	measurement.			



Report No.: SHEM130400052904

Page: 10 of 23



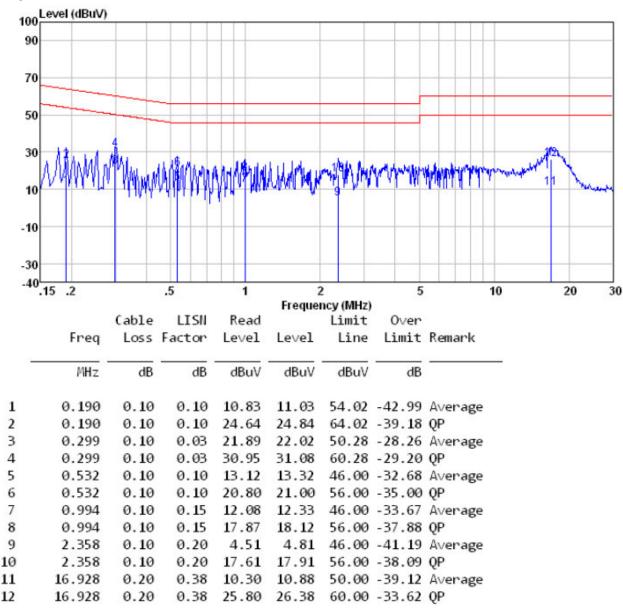


Report No.: SHEM130400052904

Page: 11 of 23

Measurement Data:

Live line:

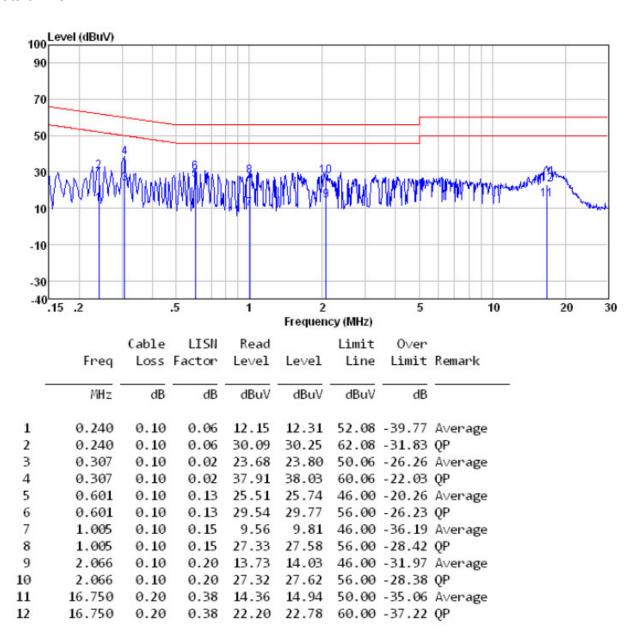




Report No.: SHEM130400052904

Page: 12 of 23

Neutural line:



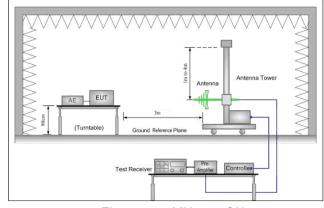


Report No.: SHEM130400052904

Page: 13 of 23

6.3 Field Strength of the Fundamental Signal

Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209							
Test Method:	ANSI C63.10: 2009	ANSI C63.10: 2009						
Test Site:	Measurement Distance: 3m	ı (Ser	mi-Anecho	ic Chamber)				
Receiver Setup:	Frequency	D	etector	RBW	٧	'BW	Remark	
	30MHz-1GHz	30MHz-1GHz Quasi-peak 100 kHz 300l		0KHz	Quasi-peak			
	Above 1GHz	Above 1GHz Peak 1MHz 3MI					Peak	
Limit:	Frequency		Limit (dBuV/m @3m)		Remark			
	902MHz~928MHz		94.0		Quasi-peak Value			
Test Setup:					•			



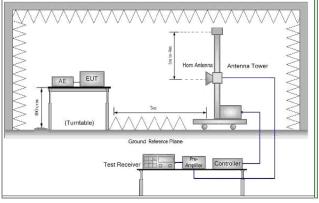


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel



Report No.: SHEM130400052904

Page: 14 of 23

	 h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete.
Instruments Used:	·
Test Mode:	Sensor mode
Test Results:	Pass

Tesr result:

	100.100								
Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
908.42	70.31	23.09	23.80	3.68	73.28	94.00	-20.72	Peak	Horizontal
908.42	74.45	23.09	23.80	3.68	77.42	94.00	-16.58	Peak	Vertical



Report No.: SHEM130400052904

Page: 15 of 23

6.4 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209							
Test Method:	ANSI C63.10: 2009							
Test Site:	Measurement Distance:	3m						
Test frequency range	9KHz-10GHz							
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.015MHz	Quasi-peak	200Hz	1KHz	Quasi-peak			
	0.015MHz-30MHz	Quasi-peak	9kHz	30KHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above 1GH2	Peak	1MHz	10Hz	Average			
Limit:		Field strength			Management			
(Spurious Emissions)	Frequency	(microvolt/meter	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	Quasi-peak	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	Quasi-peak	30			
	1.705MHz-30MHz	30	-	Quasi-peak	30			
	30MHz-88MHz	100	40.0	Quasi-peak	3			
	88MHz-216MHz	150	43.5	Quasi-peak	3			
	216MHz-960MHz	200	46.0	Quasi-peak	3			
		İ	54.0	Quasi-peak				
	960MHz-1GHz	500	54.0	Quasi peak	3			
	Above 1GHz	500	54.0	Average	3			



(Field strength of the

fundamental signal)

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902MHz~928MHz

	Services (Shangha	ii) Co., Ltd.	Page:	16 of 23	
_imit:	Frequency	Limit (dBuV/m @3m)	Rer	mark	

94.0

114.0

Report No.: SHEM130400052904

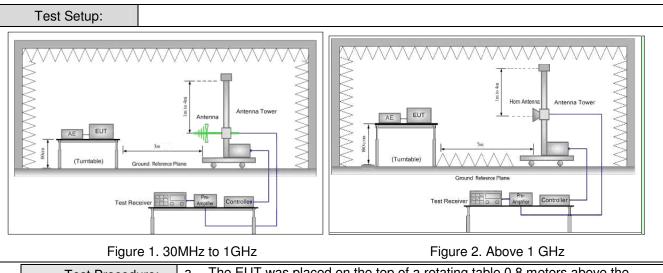
Average Value

Peak Value



Report No.: SHEM130400052904

Page: 17 of 23



	8
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 camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case
	found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete.
Instruments Used:	Refer to section 5.12 for details
Test Mode:	Sensor mode
Test Results:	Pass



Report No.: SHEM130400052904

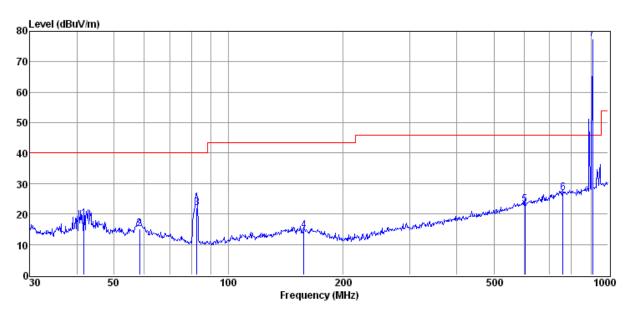
Page: 18 of 23

Measurement Data

30MHz~1GHz

Test mode: Transmitting mode

Vertical:



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
1	41.71	29.37	13.23	24.70	0.57	18.47	40.00	-21.53	QP	VERTICAL
2	58.41	26.79	12.30	24.70	0.72	15.11	40.00	-24.89	QP	VERTICAL
3	82.65	37.06	8.72	24.70	0.89	21.97	40.00	-18.03	QP	VERTICAL
4	158.11	25.39	12.62	24.70	1.31	14.62	43.50	-28.88	QP	VERTICAL
5	603.54	25.16	19.27	24.20	2.92	23.15	46.00	-22.85	QP	VERTICAL
6	760.70	25.89	21.71	24.00	3.36	26.96	46.00	-19.04	QP	VERTICAL
7	908.42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	fundament	al signal

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit.



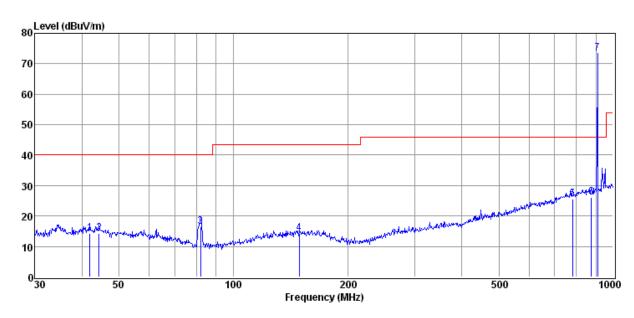
Report No.: SHEM130400052904

Page: 19 of 23

30MHz~1GHz

Test mode: Transmitting mode

Horizontal:



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
1	41.90	25.10	13.22	24.70	0.58	14.20	40.00	-25.80	QP	HORIZONTAL
2	44.30	25.29	13.13	24.70	0.59	14.31	40.00	-25.69	QP	HORIZONTAL
3	81.99	31.49	8.74	24.70	0.89	16.42	40.00	-23.58	QP	HORIZONTAL
4	148.96	24.97	12.64	24.70	1.27	14.18	43.50	-29.32	QP	HORIZONTAL
5	781.07	24.16	22.05	24.00	3.40	25.61	46.00	-20.39	QP	HORIZONTAL
6	876.08	23.74	22.71	23.90	3.60	26.15	46.00	-19.85	QP	HORIZONTAL
7	908.42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	fundament	al signal

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor

2. If Peak Result comply with QP limit,QP Result is deemed to comply with QP limit



Report No.: SHEM130400052904

Page: 20 of 23

1GHz - 10GHz							
Test mode:	Transmitting mode		Test channel:	st channel: 908MHz		Peak	
Frequency (MHz)	Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
1599.25	-10.29	49.28	38.99	54	-15.01	Vertical	
2128.00	-6.94	46.06	39.12	54	-14.88	Vertical	
3185.50	-4.68	45.48	40.8	54	-13.2	Vertical	
7533.00	7.73	40.11	47.84	54	-6.16	Vertical	
9577.50	11.79	38.17	49.96	54	-4.04	Vertical	
9816.50	10.47	38.11	49.58	54	-4.42	Vertical	
1587.50	-10.39	45.95	35.56	54	-18.44	Horizontal	
2985.75	-5.23	47.41	42.18	54	-11.82	Horizontal	
7568.25	7.73	40.13	47.86	54	-6.14	Horizontal	
9460.00	11.75	39.07	50.82	54	-3.18	Horizontal	
99033.25	10.77	39.54	50.31	54	-3.69	Horizontal	

Remark:

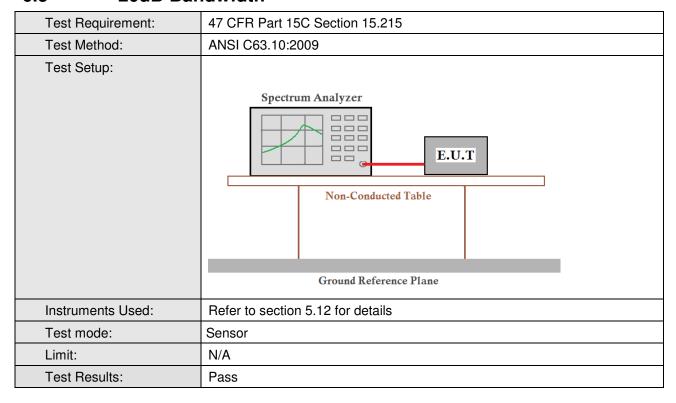
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Factor (Antenna Factor + Cable Factor - Preamplifier Factor)
- 2) The disturbance below 30MHz was very low, and the above harmonics were the highest point could be
- 2) found when testing, so only the above harmonics had been displayed.



Report No.: SHEM130400052904

Page: 21 of 23

6.5 20dB Bandwidth



Measurement Data

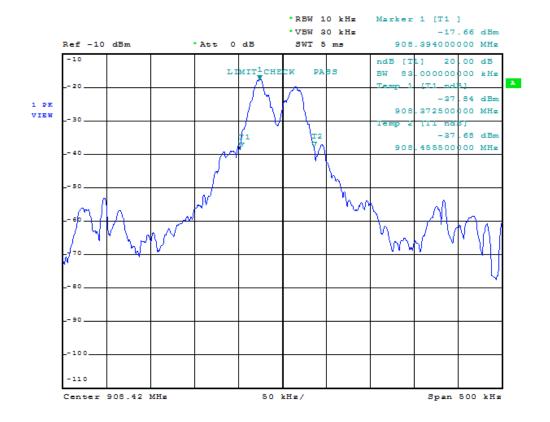
Test channel	20dB bandwidth (kHz)	Results
908.42MHz	83.00	Pass



Report No.: SHEM130400052904

Page: 22 of 23

Test plot as follows:



Report No.: SHEM130400052904

Page: 23 of 23

7 Test Setup Photographs

Refer to the < AX140--Test Setup photos>.

8 EUT Constructional Details

Refer to the < AX140--External Photos > & < AX140-- Internal Photos >.