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FCC TEST REPORT

Client Name : Intuition Robotics

Address : 3 ha-yetsira street (floor 15) Ramat Gan Israel

Product Name : Tablet

Date : May 24, 2022

Shenzhen Anbotek Compliance Laboratory Limited

Anbotek
Product Safety
* Approved *





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TEST REPORT

Applicant : Intuition Robotics

Manufacturer : Huafun International (China) Development Co., Ltd

Product Name : Tablet Model No. : TAB-002

Trade Mark : N.A

Rating(s) : Input: DC 5V2A (with DC 3.7V, 4000mAh Battery inside)

Test Standard(s) : FCC PART 2, FCC Part 22(H), FCC Part 24(E)

ANSI C63.26-2015

Test Method(s) : KDB 971168 D01 Power Meas License Digital Systems v03r01

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 22, FCC Part 24 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Data of Pocal	- 1			Nov 30 2021

Date of Test: Nov. 30, 2021~Mar. 28, 2022

Prepared by:

(TuTu Hong)

atek anbore Ant

Approved & Authorized Signer:

(Kingkong Jin)



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1. General Information

1.1. Client Information

Applicant	:	Intuition Robotics
Address	:	3 ha-yetsira street (floor 15) Ramat Gan Israel
Manufacturer	:	Huafun International (China) Development Co., Ltd
Address	:	Room B548, Gangshen International center, Xinniu Road, Minzhi Street, Longhua New District, Shenzhen, China
Factory	:	Huafun International (China) Development Co., Ltd
Address	:	Room B548, Gangshen International center, Xinniu Road, Minzhi Street, Longhua New District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Tablet																									
Model No.	:	TAB-002	Anbotek Anbotek Anbotek Anbotek																								
Trade Mark	:	N.A	tek Anborek Anborek Anboren Anb																								
Test Power Supply	:	DC 3.7V Battery inside	botek Anbotek Anbotek Anbotek																								
Test Sample No.	:	1-2-1(Normal Sample), 1	-2-2(Engineering Sample)																								
		Support Network	GSM, GPRS, EGPRS																								
		Transmit Frequency:	GSM 850: 824.2MHz~848.8 MHz PCS 1900: 1850.2MHz~1909.8 MHz																								
		Receive Frequency:	GSM 850: 869.20MHz~893.80MHz PCS 1900: 1930.20MHz-1989.80MHz																								
		Modulation Type	GMSK for GSM/GPRS 8PSK for EGPRS																								
Product Description	:	GPRS Multislot Class	12 borek Anborek Anborek Anborek																								
·	E																									EGPRS Multislot Class	12 Anbotek Anbotek Anbotek
		Antenna Type	FPC Antenna																								
		Antenna Gain(Peak):	GSM 850: 1.1 dBi (Provided by customer) PCS 1900: 1.1 dBi (Provided by customer)																								
		Adapter	N.A. rek Anborek Anborek																								

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) This report is for GSM module.







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1.3. Auxiliary Equipment Used During Test

N.A.	:	-hotek	Anbore	Ans	anbotek	Anbo	-botek
------	---	--------	--------	-----	---------	------	--------

1.4. Operation State

Test frequency list:

GSN	1850	PCS	1900
Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20
190	836.60	661	1880.00
251	848.80	810	1909.80

Test mode:

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 and ANSI C63.26-2015 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

30 MHz to 10th harmonic for GSM850, PCS1900.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

	Test modes	
Band	Radiated	Conducted
GSM 850	■ GSM link ■ GPRS Class 8 link ■ EGPRS Class 8 link	■ GSM link ■ GPRS Class 8 link ■ EGPRS Class 8 link
PCS 1900	■ GSM link ■ GPRS Class 8 link ■ EGPRS Class 8 link	■ GSM link ■ GPRS Class 8 link ■ EGPRS Class 8 link

1.5. Environmental Conditions

Temperature range:	21-25 ℃					,
Humidity range:	40-75%	Anbore	Ann	Anbotek	Aupo, rek	by
Pressure range:	86-106kPa	Anboren	Anto	Anbotek	Pupo,	a.K







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1.6. Test Equipment List

	Cot Equipment E	N. S.				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Oct. 22, 2021	1 Year
2.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Oct. 22, 2021	1 Year
3. 🖂	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Oct. 22, 2021	1Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 22, 2021	2 Year
5:ek	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 22, 2021	2 Year
6.0	Pre-amplifier	SONOMA	310N	186860	Oct. 22, 2021	1 Year
7. №	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A ANDOREK	N/A
8.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 22, 2021	1 Year
9.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 22, 2021	1 Year
10.	DC Power Supply	LW	TPR-6420D	374470	Oct. 22, 2021	1 Year
11.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 22, 2021	1 Year
12.	Universal Radio Communication Tester	Rohde & Schwarz	CMU 200	117888	Oct. 22, 2021	1 Year
13.	Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	104209	Oct. 22, 2021	1 Year
14.	High-Pass Filter	CDKMV	ZHPF-BM1100 -4000-0730	B2015094550	Oct. 22, 2021	1 Year
15.	High-Pass Filter	CDKMV	ZHPF-M3.5 -18G-3834	1307006523	Oct. 22, 2021	1 Year
16.	4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	TW54063507	Oct. 22, 2021	1 Year
17.	4 Ch. Simultaneous Sampling 14 Bits 2 MS/s	Agilent	U2531A	TW54063513	Oct. 22, 2021	1 Year



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1.7. Measurement Uncertainty

Maximum measurement uncertainty

Parameter	Uncertainty		
RF output power, conducted	±1,5 dB		
Power Spectral Density, conducted	±3 dB		
Unwanted Emissions, conducted	±3 dB		
All emissions, radiated	±6 dB		
Temperature No. 100	±1°C		
Humidity	±5 %		
DC and low frequency voltages	±3 %		
Aribo Aribo Aribo Aribo Aribo Mek	±5 %		
Confidence interval: 95%. (Confidence factor:k=2		

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102





2. Summary of Test

2.1. Summary of test result

FCC Rules	Description of Test	Result
Part 2.1046 Part 22.913(a) Part 24.232(c)	Conducted Output Power	Compliance
Part 24.232	Peak-Average Ratio	Compliance
§ 2.1047	Modulation Characteristics	N/A
Part 2.1049	99% Occupied Bandwidth & 26 dB Bandwidth	Compliance
Part 2.1051	unboth Anbotes Anb	abotek
Part 22.917	Spurious emissions at antenna terminals	Compliance
Part 24.238	nbotek Anbor k Arrotek Anbo	ter And
Part 2.1051	k hotek Anbote And	botek Anbo
Part 22.917	Band Edge	Compliance
Part 24.238	otek Anbot Arbotek Anbote	And stek sub
Part 2.1055(a)(1)(b)	botek Anbore Arr. Otek Anbotek	Ando
Part 22.355	Frequency stability VS. temperature	Compliance
Part 24.235	And Andorsk Andors An	ek Anbolen
Part 2.1055(d)(1)(2)	Anbor Ak hotek Anbore Ano	tek abotek
Part 22.355	Frequency stability VS. voltage	Compliance
Part 24.235	tek upotek Anbo, K An hotek	Anbote: Ant
Part 2.1046	ok hotek Anbote And	anbotek Anbi
Part 22.913(a)	ERP and EIRP	Compliance
Part 24.232(b)	anbotek Anbotek Anbotek	An
Part 2.1053	spotek Aupor Aur stek whot	Anbo
Part 22.917	Field strength of spurious radiation	Compliance
Part 24.238	And ok hotek Anbore An	otek anboten

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different





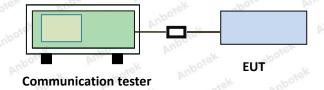
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3. Conducted Output Power Test

3.1. Test Standard and Limit

	Applicable Standard:	Part 2.1046	Anbotel	Pupp.	abotek	Aupon	work.
v		Part 22.913(a)					AUD
		Part 24.232(c)	hotek.	Anbore	And	anbotek	Anbo.
C	Limit:	N/A	An	ek anbote	Anbo	ok hotel	k Anb

3.2. Test Setup



3.3. Test Procedure

- 1. The EUT output port was connected to communication tester.
- 2. Set EUT at maximum power through communication tester.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power.

3.4. Test Data

Pass

Please refer to Appendix A of the Appendix Test Data.





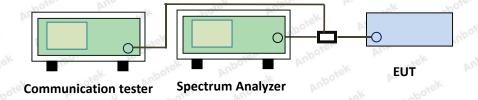
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4. Peak-Average Ratio

4.1. Test Standard and Limit

Applicable Standard:	Part 24.232	Anboten	Anbo	abotek	Vupore or	Pur Potek
Limit:	13dB	abotek	Aupo.	hotek	Anbore	Vur.

4.2. Test Setup



4.3. Test Procedure

According with KDB 971168 D01 Section 5.7:

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
- 2. Set EUT in maximum power output.
- 3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal.
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve.
- 5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power
- 6. Record the maximum PAPR level associated with a probability of 0.1%.

4.4. Test Data

Pass

Please refer to Appendix B of the Appendix Test Data.





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5. Modulation Characteristic

According to FCC § 2.1047(d), Part 22H, Part 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.



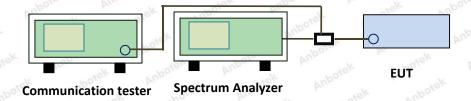
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6. 99% Occupied Bandwidth & 26 dB Bandwidth

6.1. Test Standard and Limit

Applicable Standard:	Part 2.1049	Anboten	Anbo	abotek	Aupor - K	Pur Potek
Limit:	N/A	abotek	Aupo	hotek	Anbore	Vur.

6.2. Test Setup



6.3. Test Procedure

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
- 2. Set EUT in maximum power output.
- Spectrum analyzer setting as follow: Center Frequency= Carrier frequency, RBW=1% to 5% of anticipated OBW, VBW= 3 * RBW, Detector=Peak, Trace maximum hold.
- Record the value of 99% Occupied bandwidth and -26dB bandwidth.

6.4. Test Data

Pass

Please refer to Appendix C of the Appendix Test Data.





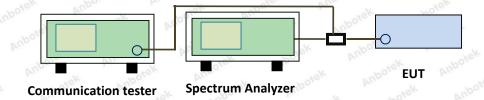
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7. Spurious emissions at antenna terminals

7.1. Test Standard and Limit

Applicable Standard:	Part 2.1051
	Part 22.917
	Part 24.238
Limit:	Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.
	The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

7.2. Test Setup



7.3. Test Procedure

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
- 2. Set EUT in maximum power output.
- Spectrum analyzer setting as follow:
 Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto
 Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto
 Scan frequency range up to 10th harmonic.
- 4. Record the test plot.

7.4. Test Data

Pass

Please refer to Appendix E of the Appendix Test Data.





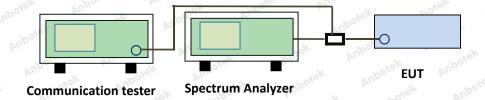
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8. Band Edge

8.1. Test Standard and Limit

Applicable Standard:	Part 2.1051
	Part 22.917
	Part 24.238
Limit:	Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.
	The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

8.2. Test Setup



8.3. Test Procedure

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
- 2. Set EUT in maximum power output.
- 3. The band edges of low and high channels were measured.
- Spectrum analyzer setting as follow:
 RBW=3KHz, VBW = 10KHz, Sweep time= Auto
- 5. Record the test plot.

8.4. Test Data

Pass

Please refer to Appendix D of the Appendix Test Data.





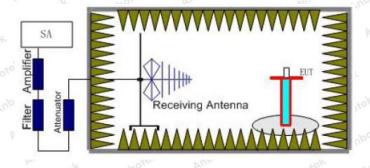
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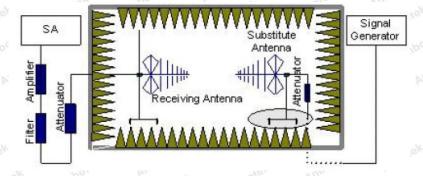
9. Field strength of spurious radiation

9.1. Test Standard and Limit

		- M.	to D.	DV.	116	W. C.
Applicable Standard:	Part 2.1053					hotek
	Part 22.917					And
	Part 24.238	hotek	Anbore	And	anbotek	Anbo.
Limit:	-13dBm	AU OF	ek anbor	Aupo,	ok hotel	k Aup

9.2. Test Setup





9.3. Test Procedure

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto

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- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

gain (dBd) = gain (dBi) - 2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.





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9.4. Test Data

Pass

Note: Worst case at GSM850/PCS1900

			GSN	1850			
	Frequency	Spurious Emission					
Channel (MHz)		Polarization	reading (dBm)	factor (dB)	Level (dBm)	Limit (dBm)	Result
ik An	1648.40	Vertical	-40.94	5.32	-35.62	abotek A	horo
	2472.60	upose, A V	-48.61	9.32	-39.29	<-13.00	PASS
otek 400	3296.80	Anboto	-52.86	12.48	-40.38	Arr. hotek	
128	1648.40	Horizontal	-42.43	5.32	-37.11	Aur Potek	Anbo
	2472.60	Hipotek	-49.95	9.26	-40.69	<-13.00	PASS
	3296.80	rek H nbote	-54.06	12.49	-41.57	otek Anbo	
Ant	1673.20	Vertical	-39.83	5.33	-34.50	hotek Ar	loo.
	2509.80	V	-47.40	9.16	-38.24	<-13.00	PASS
100	3346.40	Anbor V	-51.88	12.49	-39.39	, abotek	
190	1673.20	Horizontal	-41.08	5.34	-35.74	k abotek	Anbo
	2509.80	Hoose	-48.84	9.26	-39.58	<-13.00	PASS
	3346.40	ek Hanbote	-53.20	12.68	-40.52	or Aur	
Anb	1697.60	Vertical	-38.15	5.56	-32.59	Pote Au	otek
	2546.40	V	-45.78	9.28	-36.50	<-13.00	PASS
10 F.4	3395.20	Aug A'k	-50.39	12.65	-37.74	Anbotek	
251	1697.60	Horizontal	-40.74	5.67	-35.07	Anbotek	Aupo.
	2546.40	PH	-48.31	9.36	-38.95	<-13.00	PASS
	3395.20	ek Hanbore	-52.68	12.69	-39.99	10/4 1/4 1/4	

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. The emission levels of not record in the report are very lower than the limit and not show in test report.





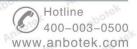
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			PCS1	900			
	Frequency		Spurious E	Emission		- Limit	
Channel	(MHz)	Polarization	reading (dBm)	factor (dB)	Level (dBm)	(dBm)	Result
Anboten	3700.40	Vertical	-46.48	13.45	-33.03	er Anb	
	5550.60	V botel	-54.22	16.61	-37.61	<-13.00	PASS
512	7400.80	V	-58.11	17.92	-40.19	anbotek.	
512	3700.40	Horizontal	-48.00	13.45	-34.55	abotek	Anbote
	5550.60	Aupore H	-55.65	16.61	-39.04	<-13.00	PASS
	7400.80	Anbare	-59.45	17.92	-41.53	Ar. abote	
Yupo, ok	3760.00	Vertical	-45.26	13.49	-31.77	ok po	otek
	5640.00	k Vanboter	-53.11	16.69	-36.42	<-13.00	PASS
ccambor	7520.00	otek V Anbo	-57.13	18.06	-39.07	aupote, A	
661	3760.00	Horizontal	-46.99	13.49	-33.50	Anbore	PUP.
	5640.00	Anto He	-54.74	16.69	-38.05	<-13.00	PASS
	7520.00	Anbu H rok	-58.66	18.06	-40.60	v Anbotel	
Anbotek	3819.60	Vertical	-43.40	13.12	-30.28	dek anbi	NO.
	5729.40	, Aupon	-52.05	17.03	-35.02	<-13.00	PASS
Ambo	7639.20	otek V Anbo	-55.84	18.09	-37.75	Alon Hely	
810	3819.60	Horizontal	-45.38	13.12	-32.26	Aupo.	abote
	5729.40	Hrode	-53.92	17.03	-36.89	<-13.00	PASS
	7639.20	Hick	-57.60	18.09	-39.51	Anbore	

Remark:

- 3. The emission behaviour belongs to narrowband spurious emission.
- 4. The emission levels of not record in the report are very lower than the limit and not show in test report.

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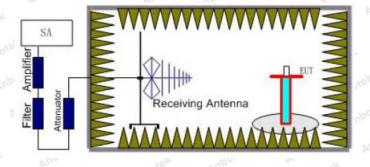
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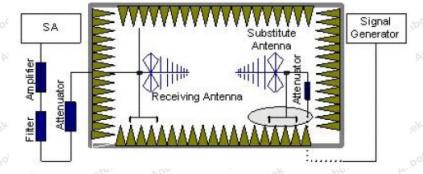
10. ERP and EIRP

10.1. Test Standard and Limit

Applicable Standard:	Part 2.1046	And	abotek	Aupo, b	Lotek.
	Part 22.913(a)				Anba
	Part 24.232(b)				Anbor
Limit:	GSM850: 7W (38.45dBm) ERI	ek anbotek	Aupo.	k hotek	Anb
	PCS1900: 2W (33dBm) EIRP				tek

10.2. Test Setup





10.3. Test Procedure

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:







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Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto

- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
 - 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

gain (dBd) = gain (dBi) - 2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

Shenzhen Anbotek Compliance Laboratory Limited





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10.4. Test Data

Pass

-0/2		ERP (d	dBm)	1	
Mode	Channel	Vertical	Horizontal	Limit (dBm)	Result
	128	32.07	29.07	Pupp.	boiek Anbore
GSM850	190	31.04	27.98	<38.45	PASS
	251	31.41	28.24	Aupoin	Pr. Potek
	128	27.17	25.57	Tiek Wupor	Air. Hotek
GPRS850	190	25.79	24.82	<38.45	PASS
	251	25.56	24.58	abotek Anbot	k Ant hotek
	128	26.02	28.03	abotek An	pote. And
EGPRS850	190	25.07	25.28	<38.45	PASS
	251	25.39	26.29	Ar. hotek	Anbotek An

D o o dividable	Chamal	EIRP	(dBm)	Lineit (dDne)	Danult
Bandwidth	Channel	Vertical	Horizontal	Limit (dBm)	Result
	512	27.85	20.69	abotek	Anbore An
PCS1900	661	27.93	21.03	<33.00	PASS
	810	27.65	20.73	An botek	Anbotek
	512	22.89	18.22	Au Mote	Anborek
GPRS1900	661	23.35	18.40	<33.00	PASS
	810	23.43	18.46	Anboren And	work Anbote
ł.	512	27.18	20.68	Anbotes P	he stek and
EGPRS1900	661	27.57	21.13	<33.00	PASS
	810	26.64	20.37	rek Anbotek	Anbo



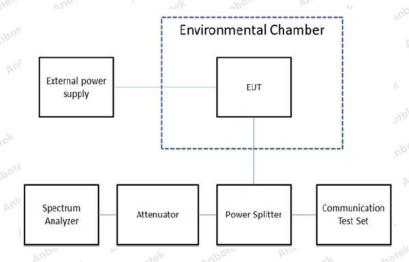
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11. Frequency stability VS Temperature measurement

11.1. Test Standard and Limit

	Applicable Standard:	Part 2.1055(a)(1)(b)	bote	Aupr	abotek	Aupo,	Pu, Potek
		Part 22.355					And
		Part 24.235					Anbo.
00	Limit:	2.5ppm	VU	ek nobot	Aupo	ak shot	ak Anb

11.2. Test Setup



11.3. Test Procedure

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber.
- 4. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

11.4. Test Data

Pass

Please refer to Appendix G of the Appendix Test Data.





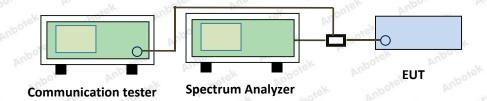
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12. Frequency stability VS Voltage measurement

12.1. Test Standard and Limit

	Applicable Standard:	Part 2.1055(d)(1)(2)	poter	Andrew	abotek	Aupor	Pu, Potek
		Part 22.355					And
		Part 24.235	Pi. Potek	Anbore	And	anbotek	Anbo.
00	Limit:	2.5ppm	Arra	ek Anbor	Aupo	ok hote	ak Aup

12.2. Test Setup



12.3. Test Procedure

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber at 25°C.
- 4. The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT.
- 5. Record the maximum frequency change.

12.4. Test Data

Pass

Please refer to Appendix F of the Appendix Test Data.



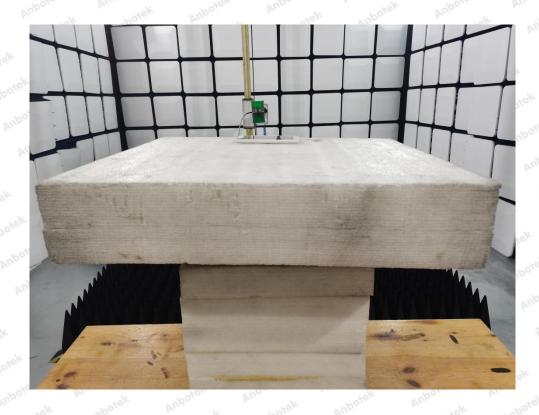


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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Radiation Emission Test





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APPENDIX II -- EXTERNAL PHOTOGRAPH

Reference to the test report 18220WC10264301.

APPENDIX III -- INTERNAL PHOTOGRAPH

Reference to the test report 18220WC10264301.



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APPENDIX IV – Appendix Test Data

