

FCC Test Report

Report No: FCS202211081W01

Issued for

Applicant:	ENPING MCDYESS ELECTRONIC TECHNOLOGY CO.,LTD
Address:	A3 District Jiangmen Industrial transfer park Enping garden Enping city Guangdong Province China
Product Name:	microphone
Brand Name:	MCDYESS , HAPPYMUSIC ,HONGUAN
Model Name:	UK-38
Series Model:	UT22, UK38, SU10, GLXD4, GLXD87, SU38, PSM400, EM400, 134G4, AXT220D, QLXD4, AT180, AT100, SU24, TD24, TD28, TD25, AT102, SU28, SU26, SU48, SU58, BS400, BS800, TS400, TS800, GS300, AC800, AC990, PG288, C300, K828, SU10, AC3, AC8, MS900, GT-X82, GT-X81, UWP11, UWP22, D900, D9001, D9003, ULXD4, ULXD8, C300, C400, C600, PA2, PA4, PA8, PA100, U24D, U28D
FCC ID:	2A9KV-UK38

Issued By: Flux Compliance Service Laboratory
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I.	EST RESULT CERTIFICATION	
Applicant's Name:	ENPING MCDYESS ELECTRONIC TECHNOLOGY CO.,LTD	
Address:	A3 District Jiangmen Industrial transfer park Enping garden Er Guangdong Province China	ping city
Manufacture's Name:	ENPING MCDYESS ELECTRONIC TECHNOLOGY CO.,LTD	
Address:	A3 District Jiangmen Industrial transfer park Enping garden Er Guangdong Province China	ping city
Product Description		
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Series Model:	UT22, UK38, SU10, GLXD4, GLXD87, SU38, PSM400, EM400, AXT220D, QLXD4, AT180, AT100, SU24, TD24, TD28, TD25, SU28, SU26, SU48, SU58, BS400, BS800, TS400, TS800, GSAC800, AC990, PG288, C300, K828, SU10, AC3, AC8, MS900, GT-X82, GT-X81, UWP11, UWP22, D900, D9001, D9003, ULXULXD8, C300, C400, C600, PA2, PA4, PA8, PA100, U24D, U240,	AT102, 3300,), KD4,
Test Standards:	FCC Rules and Regulations Part 15 Subpart C section 15.236	
Test Procedure:	ANSI C63.10:2013	
test (EUT) is in compliance with the identified in the report. This report shall not be reproduce	peen tested FCS, the test results show that the equipment e FCC requirements. And it is applicable only to the tested except in full, without the written approval of FCS, this dependent only, and shall be noted in the revision of the do	d sample locument
Date of Test:		
Date (s) of performance of tests.:	14 Nov. 2022~ 17 Nov. 2022	
Date of Issue:	17 Nov. 2022	
Test Result:	Pass	
Tested by	: Scott shen	
	(Scott Shen)	
Reviewed by	: Duke Own	
	(Duke Qian)	

Flux Compliance Service Laboratory

Approved by

(Jack Wang)



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Revision History

Rev.	Issue Date	Effect Page	Contents
00	00 17 Nov. 2022		Initial Issue



1. SUMMARY OF TEST RESULTS

FCC Part 15 Subpart C section 15.236						
Standard Section	Judgment	Remark				
FCC Part 15.236(d)	Maximum Radiated Power	PASS				
FCC Part 15.236(f)(2)	Occupied Bandwidth	PASS				
FCC Part 15.236(g)	Necessary bandwidth	PASS	-			
FCC Part 15.236(f)(3)	Frequency stability	PASS				
FCC Part 15.236(g)	Emission within the band and outside this band	PASS				
FCC Part 207(a)	Conducted Emission	NA				

NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) All tests are according to ANSI C63.10:2013



1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901

FCC Test Firm Registration Number: 514908

Designation number: CN0127

A2LA accreditation number: 5545.01

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 $\mathbf{95}$ %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.71dB
2	Unwanted Emissions, conducted	±2.98 dB
3	Conducted Emission (9KHz-150KHz)	±4.13 dB
4	Conducted Emission (150KHz-30MHz)	±4.74 dB
5	All emissions,radiated(<1G) 9KHz-30MHz	±3.1 dB
6	All emissions,radiated(<1G) 30MHz-1000MHz	±3.2 dB
7	All emissions,radiated (1GHz -18GHz)	±3.66 dB
8	All emissions,radiated (18GHz -40GHz)	±4.31 dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	microphone		
Brand Name	MCDYESS , HAPPYMUSIC ,HONGUAN		
Model Name	UK-38		
Series Model	UT22, UK38, SU10, GLXD4, GLXD87, SU38, PSM400, EM400, 134G4, AXT220D, QLXD4, AT180, AT100, SU24, TD24, TD28, TD25, AT102, SU28, SU26, SU48, SU58, BS400, BS800, TS400, TS800, GS300, AC800, AC990, PG288, C300, K828, SU10, AC3, AC8, MS900, GT-X82, GT-X81, UWP11, UWP22, D900, D9001, D9003, ULXD4, ULXD8, C300, C400, C600, PA2, PA4, PA8, PA100, U24D, U28D		
Model Difference The above product with same circuit, Pole electrical parts, materials and wiring Appearance shape, the materials of accessories is same, only different color.			
Channel List	Please refer to the Note 2.		
Operation frequency	Channel: 470MHz- 608MHz		
Modulation Type	FM		
Antenna Type	PCB Antenna		
Antenna Gain (dBi)	-2.08		
Power Supply	Input: DC 3V (2 X 1.5AA)		
Hardware version number	V1.1		
Software version number	V1.1		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

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



2. Channel List

Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	470.032	19	524.398	37	578.752
02	473.052	20	527.410	38	581.792
03	476.072	21	530.432	39	584.812
04	479.092	22	533.454	40	587.832
05	482.112	23	536.476	41	590.852
06	485.132	24	539.498	42	593.872
07	488.152	25	542.510	43	596.892
08	491.172	26	545.532	44	599.912
09	494.192	27	548.554	45	602.932
10	497.212	28	551.576	46	605.952
11	500.232	29	554.598	47	607.962
12	503.252	30	557.610		
13	506.272	31	560.632		
14	509.292	32	563.654		
15	512.312	33	566.676		
16	515.332	34	569.698		
17	518.352	35	572.710		
18	521.372	36	575.732		

Ar	nt.	Atnenna Brand	Antenna Model Name	Antenna Type	Connector	Gain (dBi)	EIRP(dBm)	NOTE
1		N/A	N/A	PCB Antenna	N/A	-2.08	7	Antenna



2.2 DESCRIPTION OF THE 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.

Test software: FCC tools

The test softeware was used to control EUT work in continuous TX mode, and select test channel, Wireless mode as below table, the following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

Tested mode, channel , information					
Mode	Channel	Frequency (MHz)			
Channel	CH 01	470.032			
	CH 24	539.498			
	CH 47	607.962			



2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- For detachable type I/O cable should be specified the length in cm in Length column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.4 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2022.01.28	2023.01.27
Signal Analyzer	R&S	FSV40-N	FCS-E012	2022.01.28	2023.01.27
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2022.01.28	2023.01.27
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2022.01.28	2023.01.27
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2022.03.17	2022.03.16
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2022.01.28	2023.01.27
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2022.01.28	2023.01.27
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2022.01.28	2023.01.27
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2022.01.28	2023.01.27
Temperature & Humidity	HTC-1	victor	FCS-E005	2022.01.28	2023.01.27

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2022.01.28	2023.01.27
LISN	R&S	ENV216	FCS-E007	2022.01.28	2023.01.27
LISN	ETS	3810/2NM	FCS-E009	2022.01.28	2023.01.27
Temperature & Humidity	HTC-1	victor	FCS-E008	2022.01.28	2023.01.27

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
Spectrum Analyzer	Keysight	N9020A	FCS-E015	2022.01.28	2023.01.27
Spectrum Analyzer	Agilent	E4447A	MY50180039	2022.01.28	2023.01.27
Spectrum Analyzer	R&S	FSV-40	101499	2022.01.28	2023.01.27



3 MAXIMUM RADIATED POWER

3.1 LIMIT

Refer to FCC 15.236(d)

In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP

3.2 TEST PROCEDURE

 $\ensuremath{\mathsf{A}} \cdot \ensuremath{\mathsf{Connect}}$ each EUT's antenna output to power sensor by RF cable and attenuator

3.3 TEST SETUP



3.4 TEST RESULTS

Test mode	Channel	Frequency (MHz)			Atnenna Gain (dBi)	EIRP(dBm)	Limit(dBm)	Verdict
Channel	01	470.032	7.924	0.4	-2.08	6.248		
	24	539.498	8.535	0.4	-2.08	6.855	16.99dBm	PASS
	47	607.962	7.764	0.4	-2.08	6.084		

Note:EIRP(dBm)=Peak Output Power(dBm)+Cable loss(dBi)+Atnenna Gain(dBi)



4. OCCUPIED BANDWIDTH

4.1 LIMIT

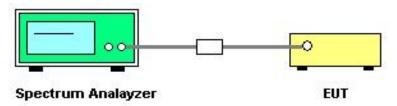
One or more adjacent 25 kHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz. The operating bandwidth shall not exceed 200 kHz

4.2 TEST PROCEDURE

.

Parameter	Setting			
Detector	Peak/AV			
Sweep time	Auto			
Resolution bandwidth	1 % to 5 % of the occupied bandwidth			
Video bandwidth:	3 x resolution bandwidth			
Span:	2 x emission bandwidth			
Trace mode:	Max. hold			
Analyzer function:	99% power occupied bandwidth function			
EUT:	Modulated signal with max. frequency			
E01.	deviation			

4.3 TEST SETUP





4.4 TEST RESULTS

Test mode	Channel		99% Bandwidth (KHz)	Limit(KHz)	Verdict
Channel	Low CH	470.032	63.762KHz		
	Middle CH	539.498	58.994KHz	200	PASS
	High CH	607.962	64.285KHz		



High CH





5 NECESSARY BANDWITH

5.1 LIMIT

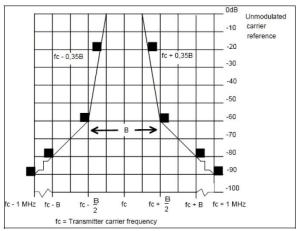
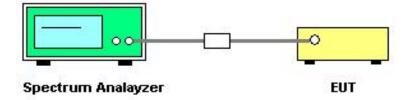


Figure 1: Spectrum mask for analogue systems in all bands

5.2 TEST PROCEDURE EN300422-1 V1.4.2 Clause 8.3.

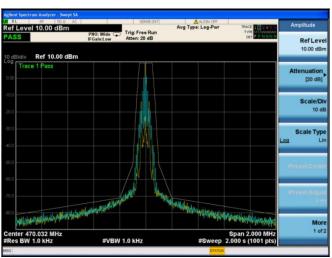
5.3 TEST SETUP



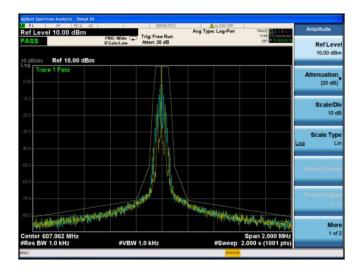
5.4 TEST RESULT



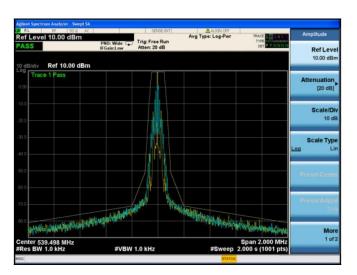
Emission Mask Channel Low CH



High CH



Middle CH





6. TRANSMITTER UNWANTED EMISSIONS

6.1 LIMIT

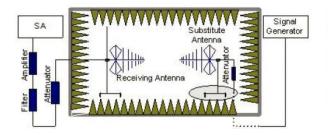
Spurious emissions are emissions outside the frequency range(s) of the equipment. The power of the spurious emissions shall not exceed the limits of table as below:

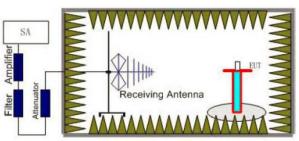
	Freq	uency	
State	47MHz to 74MHz, 87.5MHz to 137MHz 174MHz to 230MHz, 470MHz to 862MHz	Other Frequencies below 1000MHz	Frequencies above
Operation	4nW	250nW	1uW
Standby	2nW	2nW	20nW

5.2 TEST PROCEDURE

- The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum 1. analyzer start 30MHz to 6000MHz with 100 KHz RBW and 300 KHz VBW
- 2 Please refer to ETSI EN 300 422-1 V1.4.2 (2011-08) clause 6.1 for the test conditions.
- 3 Please refer to ETSI EN 300 422-1 V1.4.2 (2011-08) clause 8.4.2 for the measurement method.

5.3 TEST SETUP





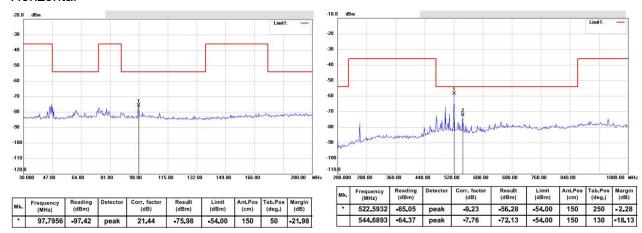


6.4 TEST RESULTS

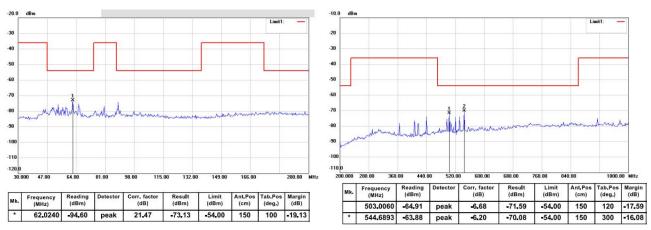
.

CHNNEL -LOW CH-30MHZ-1000MHZ

Horizontal



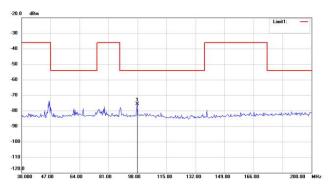
Vertical

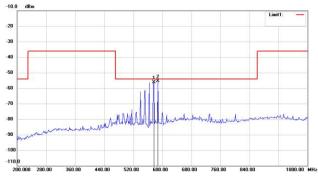




CHNNEL -MIDDLE CH-30MHZ-1000MHZ

Horizontal

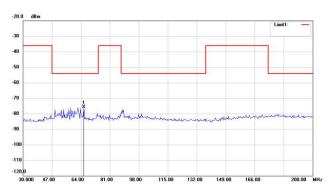


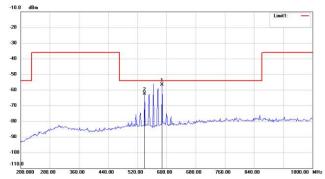


Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant Pos (cm)	Tab.Pos (deg.)	Margin (dB)
*	97.7956	-97.16	peak	21.44	-75.72	-54.00	150	230	-21.72

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)
	576.7535	-49.39	peak	6.73	-56.12	-54.00	150	120	-2.12
*	587.9760	-48.99	peak	6.37	-55.36	-54.00	150	300	-1.36

Vertical





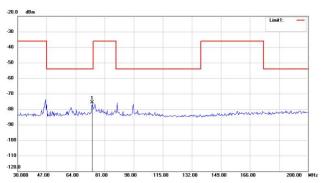
Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	
*	65.7715	-96.86	peak	21.24	-75.62	-54.00	150	210	-21.62

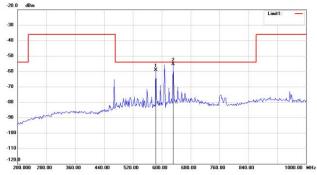
Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)
*	587.9760	-50.85	peak	5.72	-56.57	-54.00	150	300	-2.57
	539.8798	-56.18	peak	6.26	-62.44	-54.00	150	210	8.44



CHNNEL -HIGH CH-30MHZ-1000MHZ

Horizontal

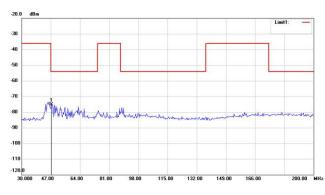


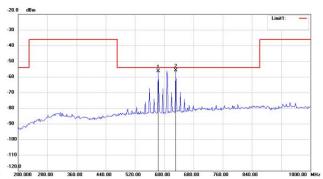


Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)
*	73.6071	-97.07	peak	21.55	-75.52	-54.00	150	250	-21.52

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)
	583.1663	-52.64	peak	-6.55	-59.19	-54.00	150	15	-5.19
*	631.2625	-51.16	peak	4.09	-55.25	-54.00	150	30	-1.25

Vertical





Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)
*	47.3746	96.39	peak	21.17	-75.22	-54.00	150	210	-21.22

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)
	583,1662	-50.71	peak	5.77	-56.48	-54.00	150	120	-2.48
*	631.2625	-50.96	peak	4.87	55.83	-54.00	150	320	-1.83



CHANNEL 1GHZ-6GHZ

Test	Frequency	Ant. Pol.	SG	Cable Loss	Substitute	EIRP	Limit	Margin
Channel	(MHz)	(H/V)	Reading	(dB)	Antenna	(dBm)	(dBm)	(dB)
(MHz)	2,110,110		(dBm)		Gain (dBi)			
	1885.00	Н	-63.02	3.40	10.44	-55.98	-30.00	-25.98
	2329.00	Н	-60.43	3.79	9.81	-54.41	-30.00	-24.41
470.072	2820.75	н	-62.61	4.15	11.30	-55.46	-30.00	-25.46
470.072	1410.38	V	-60.62	3.02	8.09	-55.55	-30.00	-25.55
	1996.00	V	-58.97	3.49	10.34	-52.12	-30.00	-22.12
	2656.00	V	-58.18	4.03	10.88	-51.33	-30.00	-21.33
**	1327.00	Н	-60.14	2.87	7.61	-55.40	-30.00	-25.40
	2952.75	Н	-62.99	4.22	11.49	-55.72	-30.00	-25.72
539.498	4921.00	Н	-54.53	5.56	12.62	-47.47	-30.00	-17.47
333.430	1968.50	V	-64.65	3.46	10.38	-57.73	-30.00	-27.73
	2952.75	V	-61.02	4.22	11.49	-53.75	-30.00	-23.75
	4921.00	V	-54.92	5.56	12.62	-47.86	-30.00	-17.86
	1542.00	н	-64.53	3.08	9.09	-58.52	-30.00	-28.52
	3084.00	Н	-62.20	4.32	11.64	-54.88	-30.00	-24.88
607.060	3598.00	Н	-62.76	4.68	12.56	-54.88	-30.00	-24.88
607.962	2056.00	V	-63.87	3.56	9.87	-57.56	-30.00	-27.56
	2665.00	V	-59.57	4.01	10.90	-52.68	-30.00	-22.68
	3598.00	V	-62.90	4.68	12.56	-55.02	-30.00	-25.02



7. FREQUENCY STABILITY

7.1 LIMIT

The frequency tolerance of the carrier signal shall be maintained within ±0.005% of the operating frequency over a temperature variation of −20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C

7.2 TEST PROCEDURE

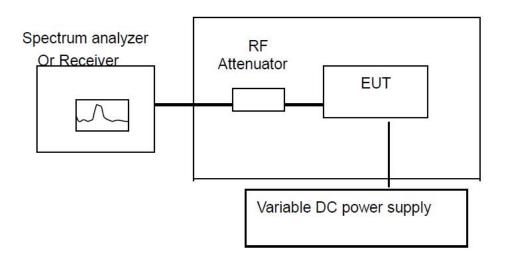
a. The EUT was connected to an external DC power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. The DC leads and the RF output cable, exited the chamber through an opening made for that purpose.

After the temperature stabilized the frequency output was recorded form the counter. An external variable DC power supply was connected to the battery terminals of the equipment under test.

b. For hand carried, battery powered equipment primary supply voltage was reduced to the battery operating end point as specified by the manufacturer. The output frequency was recorded for each battery voltage.

7.3 TEST SETUP

Climate Chamber





7.4 TEST RESULTS

- (1) Frequency stability versus input voltage (Supply Nominal voltage is DC 3V)
- (2) Frequency stability versus input voltage (Supply battery operating end point which shall be specified by the manufacturer DC 2.7V)

Refernce Frequency: 470.032MHz						
Power supply	Environment	Frequency Error	Frequency Error			
	Temperature(℃)	(Hz)	(ppm)			
DC 2.55V	20	2836	6.03			
DC 3.0V	20	2842	6.05			
DC 3.45V	20	2834	6.03			

Refernce Frequence	cy: 470.032MHz						
Frequency Deviation measured with time Elapse(30 minutes)							
Environment	Frequency Error	Frequency Error	Limit (ppm)	Results			
Temperature(℃)	(Hz)	(%)					
50	2824	6.01	50	Pass			
40	2829	6.02					
30	2836	6.03					
20	2842	6.05					
10	2831	6.02					
0	2824	6.01					
-10	2826	6.01					
-20	2839	6.04					
-30	2828	6.02					



Refernce Frequency: 539.498MHz						
Power supply	Environment	Frequency Error	Frequency Error			
	Temperature(°C)	(Hz)	(ppm)			
DC 2.55V	20	1256	2.33			
DC 3.0V	20	1250	2.32			
DC 3.45V	20	1243	2.30			

Refernce Frequency: 539.498MHz							
Frequency Deviation measured with time Elapse(30 minutes)							
Environment	Frequency Error	Frequency Error	Limit (ppm)	Results			
Temperature(°ℂ)	(Hz)	(%)					
50	1246	2.31	50	Pass			
40	1249	2.32					
30	1240	2.30					
20	1253	2.32					
10	1231	2.28					
0	1239	2.30					
-10	1242	2.30					
-20	1231	2.28					
-30	1228	2.28					



Refernce Frequency: 607.962MHz						
Power supply	Environment	Frequency Error	Frequency Error			
	Temperature(℃)	(Hz)	(ppm)			
DC 2.55V	20	6235	10.26			
DC 3.0V	20	6223	10.24			
DC 3.45V	20	6230	10.25			

Refernce Frequency: 607.962MHz						
Frequency Deviation	n measured with time	e Elapse(30 minutes)				
Environment	Frequency Error	Frequency Error	Limit (ppm)	Results		
Temperature(℃)	(Hz)	(%)				
50	6231	10.25	50	Pass		
40	6224	10.24				
30	6226	10.24				
20	6223	10.24				
10	6209	10.21				
0	6211	10.22				
-10	6219	10.23				
-20	6223	10.24				
-30	6206	10.21				

*****END OF THE REPORT****