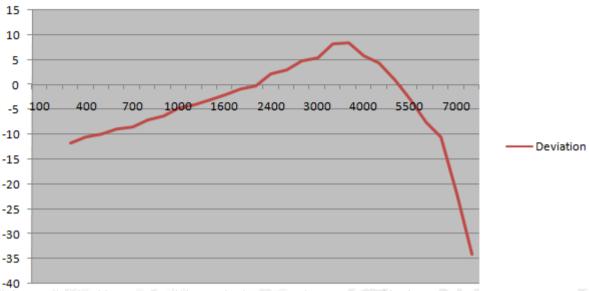


Frequency Response of High Channel---H Power

12.5 KHz Channel Separations



Note: All the modes had been tested, but only the worst data recorded in the report.

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Page 62 of 84

10. MAXIMUMN TRANSMITTER POWER (CONDUCTED OUTPUT POWER) PEAK POWER 10.1 PROVISIONS APPLICABLE

Per FCC §2.1046 § 22.565 and §90.205: Maximum ERP is dependent upon the station's antenna HAAT and required service area.

10.2 TEST PROCEDURE

The RF output of Two-way Radio was conducted to a spectrum analyzer through an appropriate attenuator. In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The "Read Value" is the spectrum reading of maximum power value.

The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.

EIRP = "Read Value" + Measured substitution value + 2.15.

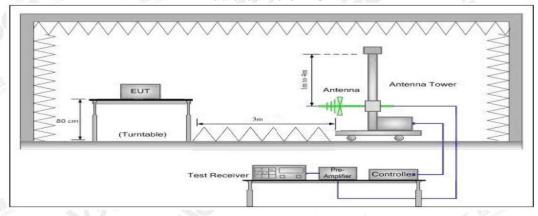
10.3 TEST CONFIGURATION

Conducted Output Power:



Effective Radiated Power

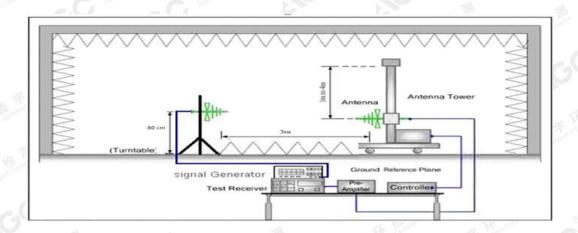
Radiated Below1GHz



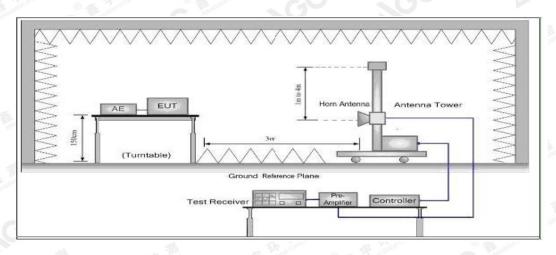
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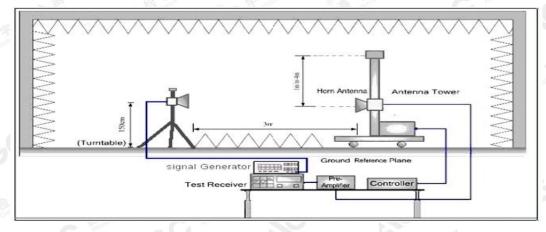
(CC) Q





Radiated Above 1 GHz





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10.4 TEST RESULT

The maximum Conducted Power (CP) for VHF/UHF is

Analog: 2W/0.5 W for 12.5 KHz Channel Separation VHF Analog: 2W/0.5 W for 12.5 KHz Channel Separation UHF Digital: 2W/0.5 W for 12.5 KHz Channel Separation VHF Digital: 2W/0.5 W for 12.5 KHz Channel Separation UHF

Calculation Formula: CP = R + A + L

Note:

CP: The final Conducted Power

R: The reading value from spectrum analyzer A: The attenuation value of the used attenuator

L: The loss of all connection cables

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Page 65 of 84

UHF: Analog:

Conducted Power Measurement Results-2W		
Channel Consession	Channel	Measurement Result (dBm)
Channel Separation		For 33dBm(2W)
12.5 KHz	Bottom(400.025MHz)	32.21
	Middle(453.225MHz)	32.35
	Middle(454.025MHz)	32.34
	Top (479.975MHz)	32.46

Radiated Power Measurement Results-2W			
Measurement Result (dBm			
Channel Separation	Channel	For 33dBm(2W)	
	Bottom(400.025MHz)	32.14	
OF THE CO	Middle(453.225MHz)	32.27	
12.5 KHz	Middle(454.025MHz)	32.24	
	Top (479.975MHz)	32.31	

Conducted Power Measurement Results-0.5W		
Channel Consection	Channel	Measurement Result (dBm)
Channel Separation		For 26.99dBm(0.5W)
12.5 KHz	Bottom(400.025MHz)	26.31
	Middle(453.225MHz)	26.35
	Middle(454.025MHz)	26.33
The state of the s	Top (479.975MHz)	26.47

Radiated Power Measurement Results-0.5W		
Channal Cananatian	Measurement Result (dBm)	
Channel Separation	Channel	For 26.99dBm(0.5W)
	Bottom(400.025MHz)	26.21
	Middle(453.225MHz)	26.24
12.5 KHz	Middle(454.025MHz)	26.23
Signature of Contraction of Contract	Top (479.975MHz)	26.35

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<u>Digital:</u> Date + voice:

Conducted Power Measurement Results-2W		
Ohannal Cananatian	Channel	Measurement Result (dBm)
Channel Separation		For 33dBm(2W)
S. E. J. J. W. C. S. C.	Bottom(400.025MHz)	32.18
	Middle(453.225MHz)	32.14
12.5 KHz	Middle(454.025MHz)	32.15
虚测 点测	Top (479.975MHz)	32.19

Radiated Power Measurement Results-2W		
Channel Consection	Channel	Measurement Result (dBm)
Channel Separation		For 33dBm(2W)
12.5 KHz	Bottom(400.025MHz)	32.09
	Middle(453.225MHz)	32.05
	Middle(454.025MHz)	32.06
	Top (479.975MHz)	32.13

Date transmission mode:

Conducted Power Measurement Results-2W		
Ob annual Comandian	Ohamad	Measurement Result (dBm)
Channel Separation	Channel	For 33dBm(2W)
12.5 KHz	Bottom(400.025MHz)	31.99
	Middle(453.225MHz)	31.98
	Middle(454.025MHz)	31.96
	Top (479.975MHz)	32.08

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Report No.: AGC02294181204FE10 Page 67 of 84

Radiate	ed Power Measurement Res	sults-2W
01 10 11	Channel	Measurement Result (dBm)
Channel Separation		For 33dBm(2W)
	Bottom(400.025MHz)	31.95
	Middle(453.225MHz)	31.94
12.5 KHz	Middle(454.025MHz)	31.92
CC D	Top (479.975MHz)	32.01

Date + voice:

Conducted Power Measurement Results-0.5W		
Channel Canavation	Channel	Measurement Result (dBm)
Channel Separation		For 26.99dBm(0.5W)
12.5 KHz	Bottom(400.025MHz)	26.21
	Middle(453.225MHz)	26.35
	Middle(454.025MHz)	26.31
	Top (479.975MHz)	26.36

Radiated Power Measurement Results-0.5W		
Measurement Resu		
Channel Separation	Channel	For 26.99dBm(0.5W)
12.5 KHz	Bottom(400.025MHz)	26.15
	Middle(453.225MHz)	26.22
	Middle(454.025MHz)	26.19
	Top (479.975MHz)	26.24

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Date transmission mode:

Conducted Power Measurement Results-0.5W		
Channal Cananation	Channal	Measurement Result (dBm)
Channel Separation	Channel	For 26.99dBm(0.5W)
SO THE PROPERTY OF THE PROPERT	Bottom(400.025MHz)	26.14
	Middle(453.225MHz)	26.15
12.5 KHz	Middle(454.025MHz)	26.12
	Top (479.975MHz)	26.18

Radiated Power Measurement Results-0.5W		
	Channel	Measurement Result (dBm)
Channel Separation		For 26.99dBm(0.5W)
12.5 KHz	Bottom(400.025MHz)	26.07
	Middle(453.225MHz)	26.08
	Middle(454.025MHz)	26.05
	Top (479.975MHz)	26.11

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10.5 CONDUCT SPURIOUS PLOT

Note: The EUT antenna is a non-removable antenna and does not need to measure Conduct spurious

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Page 70 of 84

11. RANSMITTER FREQUENCY BEHAVIOR

11.1PROVISIONS APPLICABLE

FCC §90.214

	Maximum frequency difference ³	All equipment			
Time intervals 1, 2		150 to 174 MHz	421 to 512 MHz		
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels					
t ₁ ⁴	± 25.0 kHz ± 12.5 kHz ± 25.0 kHz	5.0 ms 20.0 ms 5.0 ms	10.0 ms 25.0 ms 10.0 ms		
Transient Frequency Behavior for Equipme	nt Designed to Operate	on 12.5 kHz Channels			
t ₁ 4	± 12.5 kHz ± 6.25 kHz ± 12.5 kHz	5.0 ms 20.0 ms 5.0 ms	10.0 ms 25.0 ms 10.0 ms		
Transient Frequency Behavior for Equipme	nt Designed to Operate	on 6.25 kHz Channels			
t ₁ ⁴	± 6.25 kHz ± 3.125 kHz ± 6.25 kHz	5.0 ms 20.0 ms 5.0 ms	10.0 ms 25.0 ms 10.0 ms		

11.2 TEST METHOD

TIA/EIA-603 2.2.19.3

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 $^{^{1}}t_{on}$ is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing. t_{1} is the time period immediately following t_{on} . t_{2} is the time period immediately following t_{1} . t_{3} is the time period from the instant when the transmitter is turned off until t_{off} . t_{off} is the instant when the 1 kHz test signal starts to rise. 2 During the time from the end of t_{2} to the beginning of t_{3} , the frequency difference must not exceed the limits specified in t_{3} . § 90.213.

 ³ Difference between the actual transmitter frequency and the assigned transmitter frequency.
4 If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.



Page 71 of 84

11.3 DESCRIBE LIMIT LINE OF RANSMITTER FREQUENCY BEHAVIOR

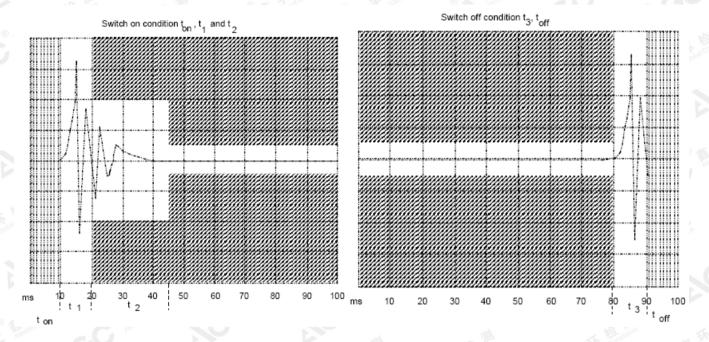
ton: The switch-on instant ton of a transmitter is defined by the condition when the output power, measured at the antenna terminal, exceeds 0,1 % of the full output power (-30 dBc).

t1: period of time starting at ton and finishing according to above 11.1

t2: period of time starting at the end of t1 and finishing according to above 11.1

toff: switch-off instant defined by the condition when the output power falls below 0,1 % of the full output power (-30 dBc).

t3: period of time that finishing at toff and starting according to above 11.1

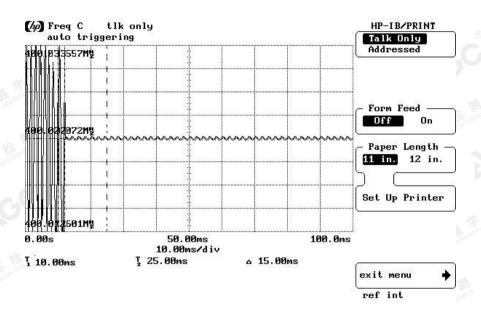


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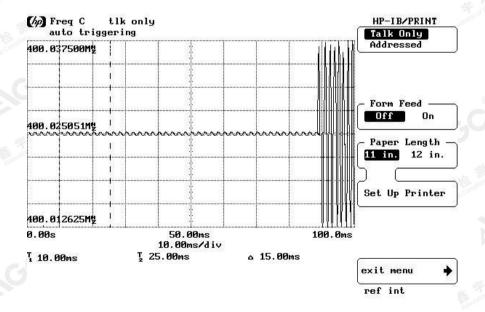
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11.4 MEASURE RESULT

Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--Off to On



Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--On to Off



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Page 73 of 84

12. AUDIO LOW PASS FILTER RESPONSE

12.1.TEST LIMITS

2.1047(a): Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter or of all circuitry installed between the modulation limiter and the modulated stage shall be submitted.

90.242(b)(8): Recommended audio filter attenuation characteristics are given below:

3)	Audio band	Minimum Attenuation Rel. to 1 KHz Attenuation
	3 –20 KHz 20 – 30 KHz	60 log ₁₀ (f/3) dB where f is in KHz 50dB

12.2. METHOD OF MEASUREMENTS

The rated audio input signal was applied to the input of the audio low-pass filter (or of all modulation stages) using an audio oscillator, this input signal level and its corresponding output signal were then measured and recorded using the FFT Digital Spectrum Analyzer. Tests were repeated at different audio signal frequencies from 0 to 50 KHz.



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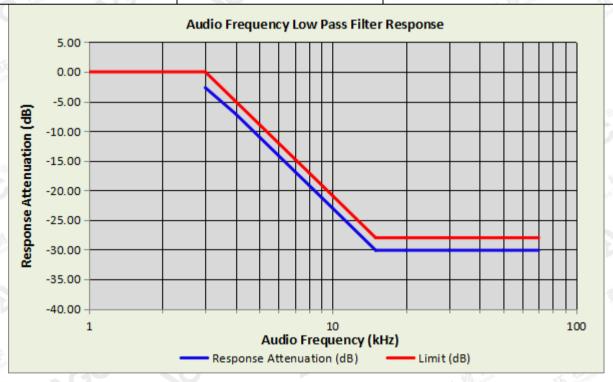
Page 74 of 84

12.3.MEASURE RESULT

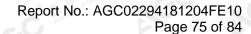
Analog:

12.5 KHZ CHANNEL SPACING, F3E, FREQUENCY OF ALL MODULATION STATES (TEST RESULT FOR UHF)-2W

UHF)-2VV	R Fee mond	
Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1	0	/
3	-2.67	0.00
4 投票	· 7.11	-5.00
5 14 1000	-10.98	-8.87
6	-14.15	-12.04
7	-16.83	-14.72
8	-19.15	9 3 -17.04
9	-21.19	-19.08
10	-23.03	-20.92
15	-30.11	-28.00
20	-30.11	-28.00
30	-30.11	-28.00
50	-30.11	-28.00
70	-30.11	-28.00

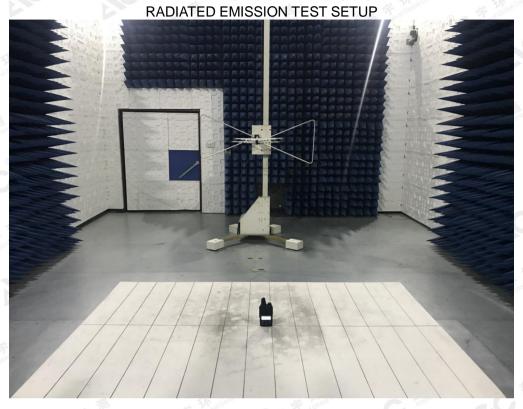


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APPENDIX I: PHOTOGRAPHS OF SETUP





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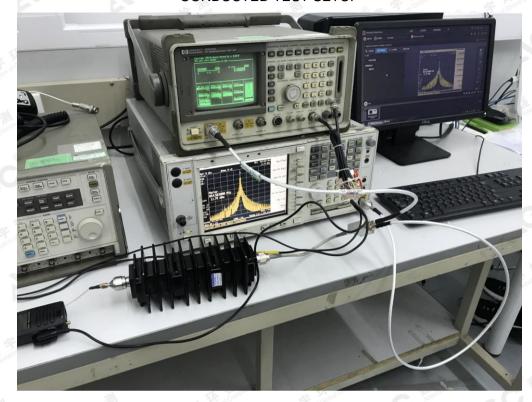
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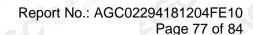
CONDUCTED TEST SETUP



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APPENDIX II PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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FRONT VIEW OF EUT



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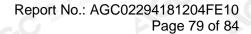
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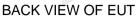
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LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT



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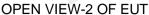
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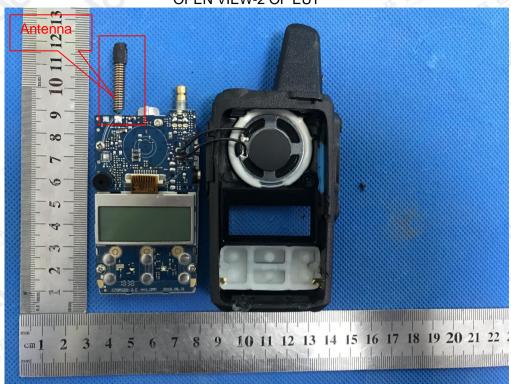
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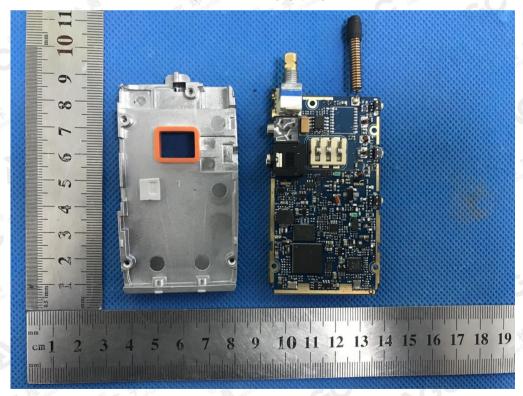








OPEN VIEW-3 OF EUT



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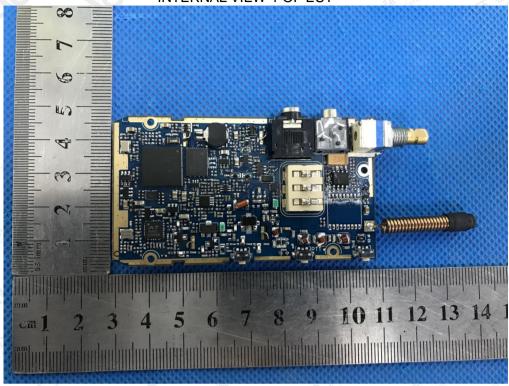
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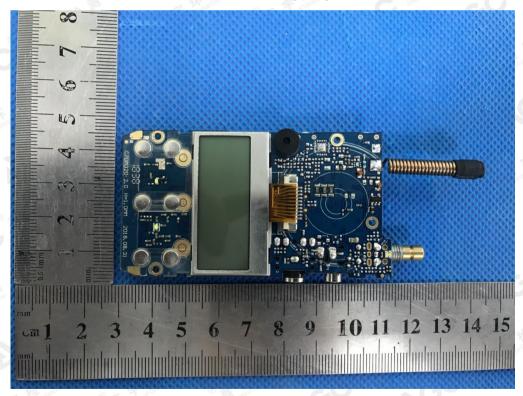
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT



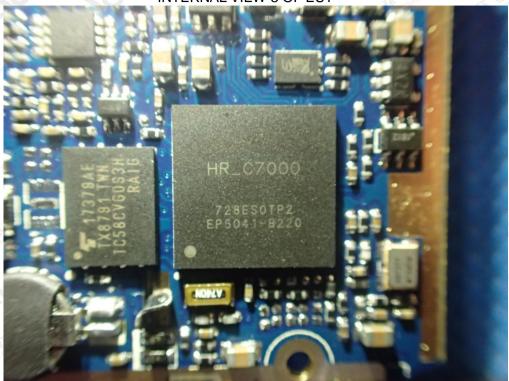
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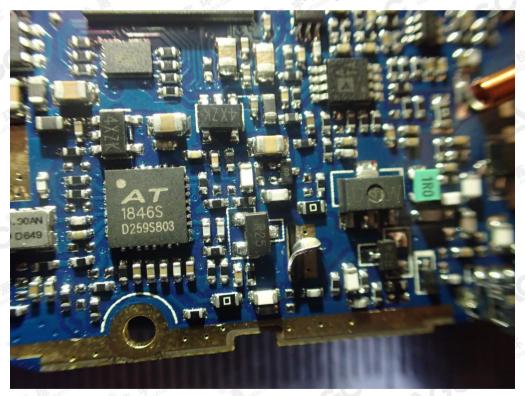
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INTERNAL VIEW-3 OF EUT



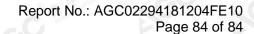
INTERNAL VIEW-4 OF EUT



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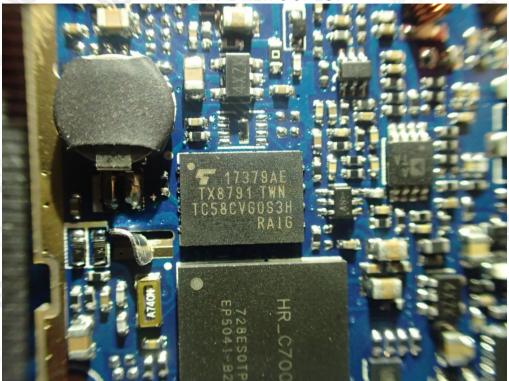
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INTERNAL VIEW-5 OF EUT



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