

APPLICATION FOR VERIFICATION On Behalf of Hornady Manufacturing Company

RAPiD Keypad GEN III Model No.:HOM070

FCC ID: 2AFJZ-HOM070

Prepared for	:	Hornady Manufacturing Company
Address	:	3625 Old Potash Hwy Grand Island, NE 68803 United States
Prepared by Address	:	Accurate Technology Co., Ltd. F1, Bldg. A&D, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen 518057, P.R. China
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Report No.	:	ATE20161724
Date of Test	:	August 15, 2016
Date of Report	:	August 18, 2016



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Test Report Declaration

Applicant& address	:	Hornady Manufacturing Company 3625 Old Potash Hwy Grand Island, NE 68803 United States
Manufacturer& address	:	Hornady Manufacturing Company 3625 Old Potash Hwy Grand Island, NE 68803 United States
Product	:	RAPiD Keypad GEN III
Model No.	:	HOM070
Trade name	:	N/A

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 15.207&15.209 ANSI C63.10: 2013

The device described above is tested by Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions. The measurement results are contained in this test report and Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Accurate Technology Co., Ltd.

	August 15, 2016
Date of Report :	August 18, 2016
Prepared by :	BobWarg
	(Bob Wang, Engineer)
Approved & Authorized Signer :	Lemit
	(Sean Liu, Manager)



1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Power Line Conducted Emission	FCC Part 15.207	Pass
Radiated Emission	FCC Part 15.209	Pass



2. GENERAL INFORMATION

2.1.Description of Device (EUT)

The submitted sample is a RAPiD Keypad GEN III. The sample is powered by AC 120V.

		RAPiD Keypad GEN III		
Frequency	:	125KHz		
Number of Channels	:	1		
Modulation Type	:	GFSK		
Type of Antenna	:	Internal Antenna		
Max antenna gain	:	3dBi		
Power Supply	:	AC120V(Adapter)		
Adapter	:	MODEL: PK-1201000 INPUT:100-240V~50/60Hz 0.6A OUTPUT:12V/1A		

2.2. Special Accessory and Auxiliary Equipment

N/A



2.3.Description of Test Facility

EMC Lab	:	Accredited by TUV Rheinland Shenzhen, May 10, 2004
		Listed by FCC The Registration Number is 253065 Listed by FCC The Registration Number is 752051
		Listed by Industry Canada The Registration Number is 5077A-1 Listed by Industry Canada The Registration Number is 5077A-2
		Accredited by China National Accreditation Committee for Laboratories The Certificate Registration Number is L3193
Name of Firm Site Location	-	Accurate Technology Co., Ltd. F1, Bldg. A&D, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen 518057, P.R. China

2.4.Measurement Uncertainty

Conducted emission expanded uncertainty	:	U=2.23dB, k=2
Power disturbance expanded uncertainty	:	U=2.92dB, k=2
Radiated emission expanded uncertainty	:	U=3.08dB, k=2
(9kHz-30MHz)		
Radiated emission expanded uncertainty	:	U=4.42dB, k=2
(30MHz-1000MHz)		
Radiated emission expanded uncertainty	:	U=4.06dB, k=2
(Above 1GHz)		



3. POWER LINE CONDUCTED MEASUREMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan. 9, 2016	1 Year
2.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan. 9, 2016	1 Year
3.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	Jan. 9, 2016	1 Year
4	50Ω Coaxial	Anritsu Corp	MP59B	620028393	Jan. 9, 2016	1 Year
4.	Switch			3		
Expa	nded Uncertainty	U= 2.23dB, k=2				

3.1. For Power Line Conducted Emission

3.2. Power Line Conducted Emission Measurement Limits (Class B)

Frequency	Limits dB(µV)				
MHz	Quasi-peak Level	Average Level			
0.15—0.50	66—56*	56—46*			
0.50—5.00	56	46			
5.00—30.0	60	50			

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.3.Manufacturer

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

3.3.1.Power bank (EUT)

Model Number: HOM070 Manufacturer: Hornady Manufacturing Company

3.4. Operating Condition of EUT

3.4.1.Setup the EUT and simulator as shown as Section 4.2.

3.4.2. Turn on the power of all equipment.

3.4.3.Let the EUT work in test mode (TX) and measure it.



3.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.



3.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : TX	(120V/6	OHZ)					
MEASUREMENT	RESULT	: "A-91	03 fin	n."			
2016-8-15 9:	20		_				
Frequency				-	Detector	Line	PE
0.748000 1.116000 2.108000 5.208500	35.50 30.30 33.90 31.40 31.60 28.20	11.5	60	25.7 22.1 24.6 28.4	QP QP QP QP	N N N N N	GND GND GND GND GND GND
MEASUREMENT	RESULT	: "A-91	03_fir	12"			
2016-8-15 9:	20						
Frequency MHz	Level dBµV				Detector	Line	PE
0.434000 0.748000 1.116000 2.108000 5.208500 14.154500	25.10 22.20 23.70 20.80 18.50 21.80		47 46 46 50 50	22.3	AV AV AV AV	N N N N N	GND GND GND GND GND GND
MEASUREMENT	RESULT	: "A-91	04_fir	1 "			
2016-8-15 9:	24		_				
Frequency MHz			Limit dBµV		Detector	Line	PE
0.434000 0.652000 1.280000 3.345500 9.668000 11.531000	40.70 34.50 29.60 36.40 36.40 36.30	11.4 11.5 11.6 11.7 11.9 11.9	56	16.5 21.5 26.4 19.6 23.6 23.7	QP QP QP QP	L1 L1 L1 L1 L1 L1	GND GND GND GND GND GND
MEASUREMENT	RESULT	: " A -91	04 fir	12"			
2016-8-15 9:	24		_				
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.434000 0.652000 1.280000 3.345500 9.668000 11.531000	33.50 26.60 22.60 22.90 22.30 23.70	11.4 11.5 11.6 11.7 11.9 11.9	47 46 46 50 50	13.7 19.4 23.4 23.1 27.7 26.3	AV AV AV AV AV AV	L1 L1 L1 L1 L1 L1	GND GND GND GND GND GND



MEASUREMENT	RESULT	: "A-91	02_fin	n ''			
2016-8-15 9: Frequency MHz	1522				Detector	Line	PI
	36.10 38.40 33.50 29.70 30.40 31.70	11.2 11.4 11.5 11.7 11.8 11.9	57 56 56 60	26.3 29.6	QP QP QP QP	N N N N N	GNI GNI GNI GNI GNI
MEASUREMENT	RESULT	: "A-91	02_fin	12"			
2016-8-15 9: Frequency MHz			Limit dBµV		Detector	Line	PI
0.376000 0.434000 0.746000 2.112500 5.213000 9.555500	24.90 26.80 22.70 19.70 16.80 16.50	11.2 11.4 11.5 11.7 11.8 11.9	47 46	20.4 23.3 26.3 33.2	AV AV	N N N N N	GNI GNI GNI GNI GNI GNI
MEASUREMENT	RESULT	: "A-91	01_fin	."			
2016-8-15 9: Frequency MHz	Level	Transd dB		-	Detector	Line	PI
0.368000 0.436000 0.492000 1.260000 3.597500 9.317000	41.50 44.40 39.30 33.80 38.30 37.90	11.2 11.4 11.5 11.6 11.7 11.9		12.7 16.8 22.2 17.7	QP QP QP QP	L1 L1 L1 L1 L1 L1	GNI GNI GNI GNI GNI
MEASUREMENT	RESULT	: "A-91	01_fin	2"			
2016-8-15 9: Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PI
0.368000 0.434000 0.492000 1.260000 3.597500 9.317000	33.60 37.30 32.10 25.90 27.90 22.60	11.2 11.4 11.5 11.6 11.7 11.9	49 47 46 46 46 50		AV AV AV AV AV AV	L1 L1 L1 L1 L1 L1	GNI GNI GNI GNI GNI GNI

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

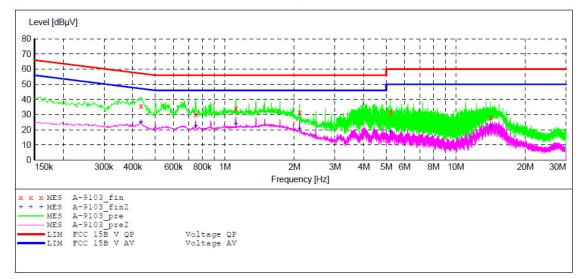


CONDUCTED EMISSION STANDARD FCC PART 15B

EUT:	PAPiD Keypad GEN III	M/N:HOM070
Manufacturer:	Hornady	
Operating Condition:	ON	
Test Site:	2#Shielding Room	
Operator:	star	
Test Specification:	N 120V/60Hz	
Comment:	Report No.:ATE20161724	
Start of Test:	2016-8-15 / 9:18:07	

SCAN TABLE: "V 150K-30MHz fin"

Short Desci			SUB STD VTER	RM2 1.70		
	-	Step	Detector	Meas.	IF	Transducer
Frequency					Bandw.	
150.0 kHz	30.0 MHz	4.5 kHz		1.0 s	9 kHz	LISN(ESH3-Z5)
			Average			



MEASUREMENT RESULT: "A-9103 fin"

2016-8-15 9:3 Frequency MHz	20 Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.434000 0.748000 1.116000 2.108000 5.208500 14.154500	35.50 30.30 33.90 31.40 31.60 28.20	11.4 11.5 11.6 11.7 11.8 11.9	57 56 56 56 60 60	21.7 25.7 22.1 24.6 28.4 31.8	QP QP QP QP QP QP	N N N N N	GND GND GND GND GND GND

MEASUREMENT RESULT: "A-9103 fin2"

			10 m m m					
2016-8-15 9:2	20							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
							-	
0.434000	25.10	11.4	47	22.1	AV	N	GND	
0.748000	22.20	11.5	46	23.8	AV	N	GND	
1.116000	23.70	11.6	46	22.3	AV	N	GND	
2.108000	20.80	11.7	46	25.2	AV	N	GND	
5.208500	18.50	11.8	50	31.5	AV	N	GND	
14.154500	21.80	11.9	50	28.2	AV	N	GND	

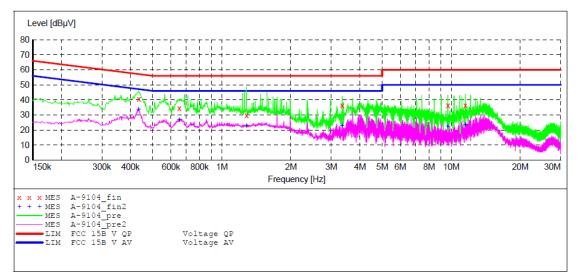


CONDUCTED EMISSION STANDARD FCC PART 15B

EUT:	PAPiD Keypad GEN III	M/N:HOM070
Manufacturer:	Hornady	
Operating Condition:	ON	
Test Site:	2#Shielding Room	
Operator:	star	
Test Specification:	L 120V/60Hz	
Comment:	Report No.:ATE20161724	
Start of Test:	2016-8-15 / 9:21:05	

SCAN TABLE: "V 150K-30MHz fin"

Short Desc		. 507	_SUB_STD_VTE	RM2 1.70			
	Stop	1	Detector	Meas.	IF	Transducer	
Frequency	Frequency	Width		Time	Bandw.		
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak Average	1.0 s	9 kHz	LISN (ESH3-Z5)	



MEASUREMENT RESULT: "A-9104 fin"

2016-8-15 9: Frequency MHz	24 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.434000 0.652000 1.280000 3.345500 9.668000 11.531000	40.70 34.50 29.60 36.40 36.40 36.30	11.4 11.5 11.6 11.7 11.9 11.9	57 56 56 56 60	16.5 21.5 26.4 19.6 23.6 23.7	~	L1 L1 L1 L1 L1 L1	GND GND GND GND GND GND

MEASUREMENT RESULT: "A-9104_fin2"

			_				
2016-8-15 9:	24						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.434000	33.50	11.4	47	13.7	AV	L1	GND
0.652000	26.60	11.5	46	19.4	AV	L1	GND
1.280000	22.60	11.6	46	23.4	AV	L1	GND
3.345500	22.90	11.7	46	23.1	AV	L1	GND
9.668000	22.30	11.9	50	27.7	AV	L1	GND
11.531000	23.70	11.9	50	26.3	AV	L1	GND

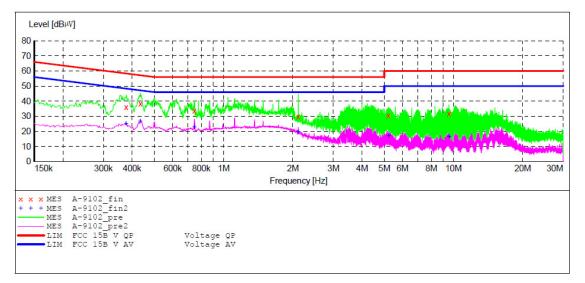


CONDUCTED EMISSION STANDARD FCC PART 15B

EUT:	PAPiD Keypad GEN III	M/N:HOM070
Manufacturer:	Hornady	
Operating Condition: Test Site:	2#Shielding Room	
Operator:	star	
Test Specification:		
Comment:	Report No.:ATE20161724	
Start of Test:	2016-8-15 / 9:14:32	
beard of rebe.	2010 0 10 / 0.11.02	

SCAN TABLE: "V 150K-30MHz fin"

Short Desc	ription:	-	_SUB_STD_VTE	RM2 1.70		
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	LISN(ESH3-Z5)
			Average			



MEASUREMENT RESULT: "A-9102 fin"

2016-8-15 9:17 Level Transd Limit Margin Detector Line PE Frequency dBµV dB dBµV dB MHz 0.376000 36.10 22.3 11.2 58 GND QP Ν 0.434000 38.40 11.4 57 18.8 QP Ν GND 33.50 22.5 QP 0.746000 56 11.5 Ν GND 2.112500 11.7 29.70 56 QP Ν GND 5.213000 30.40 11.8 60 29.6 QP Ν GND 9.555500 31.70 11.9 60 28.3 QP Ν GND

MEASUREMENT RESULT: "A-9102 fin2"

2016-8-15 9:17 Level Transd Limit Margin Detector Line Frequency PE MHz dBµV dB dBµV dB 0.376000 24.90 11.2 48 23.5 AV Ν GND 26.80 20.4 AV 0.434000 11.4 47 Ν GND 0.746000 22.70 23.3 GND 11.5 46 AV Ν 11.7 2.112500 19.70 26.3 AV 46 Ν GND 5.213000 16.80 11.8 50 33.2 AV Ν GND 9.555500 16.50 11.9 50 33.5 AV Ν GND

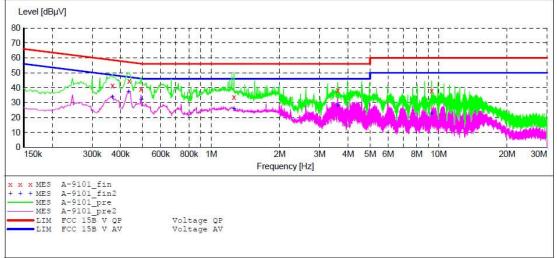


CONDUCTED EMISSION STANDARD FCC PART 15B

EUT:	PAPiD Keypad GEN III M/N:HOM070
Manufacturer:	Hornady
Operating Condition:	ON
Test Site:	2#Shielding Room
Operator:	star
Test Specification:	L 240V/60Hz
Comment:	Report No.:ATE20161724
Start of Test:	2016-8-15 / 9:11:17

SCAN TABLE: "V 150K-30MHz fin"

Start	Stop	Step	Detector	Mone	IF	Transducer
	Contraction and a second second	1	Detector		1.000	TTAIISQUCEL
Frequency	Frequency	Width		Time	Bandw.	
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 5	9 kHz	LISN(ESH3-Z5)
			Average			,



MEASUREMENT RESULT: "A-9101 fin"

2016-8-15 9:13 Level Transd Limit Margin Detector Line PE Frequency dBµV dB dBuV MHz dB 17.0 QP 0.368000 41.50 11.2 59 L1 GND 11.4 57 12.7 0.436000 44.40 GND QP L1 11.5 0.492000 39.30 56 16.8 QP L1 GND 22.2 QP 17.7 QP 1.260000 33.80 11.6 56 L1 GND 3.597500 38.30 11.7 56 L1 GND 9.317000 37.90 11.9 60 22.1 QP L1 GND

MEASUREMENT RESULT: "A-9101 fin2"

2016-8-15 9:	13						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	sub pri		and the				
0.368000	33.60	11.2	49	14.9	AV	L1	GND
0.434000	37.30	11.4	47	9.9	AV	L1	GND
0.492000	32.10	11.5	46	14.0	AV	L1	GND
1.260000	25.90	11.6	46	20.1	AV	L1	GND
3.597500	27.90	11.7	46	18.1	AV	L1	GND
9.317000	22.60	11.9	50	27.4	AV	L1	GND



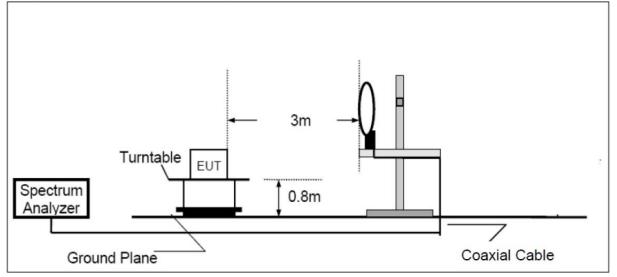
4. RADIATED EMISSION MEASUREMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.		
						Interval		
1.	Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 9, 2016	1 Year		
2.	Test Receiver	Rohde &	ESCS30	100307	Jan. 9, 2016	1 Year		
		Schwarz						
3.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 14, 2016	1 Year		
4.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 14, 2016	1 Year		
5.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 14, 2016	1 Year		
6.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan. 9, 2016	1 Year		
12.	Pre-Amplifier	Rohde & Schwarz	CBLU11835	3791	Jan. 9, 2016	1 Year		
			40-01					
Expanded Uncertainty (9kHz-30MHz): U=3.08dB, k=2								
Expanded Uncertainty (30MHz-1000MHz): U=4.42dB, k=2								
Expanded Uncertainty (Above 1GHz): U=4.06dB, k=2								

4.1.For Radiated Emission Measurement

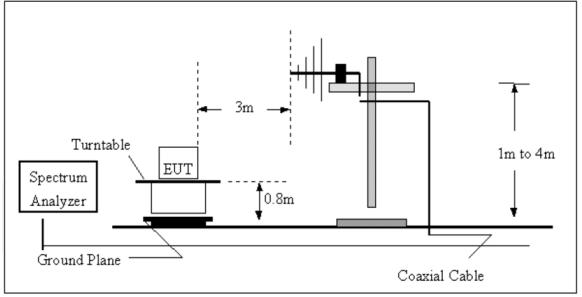
4.2.TEST CONFIGURATION

(A)Radiated Emission Test Set-Up, Frequency below 30MHz





(B)Radiated Emission Test Set-Up, Frequency 30-1000MHz



4.3.Block Diagram of Test Setup

4.3.1. Block diagram of connection between the EUT and simulators



4.4.Radiated Emission Limit

Frequency	Field Strength Limitation		Field Strength Limitation at 3m Measurement Dist			
(MHz)	(uV/m) Dist		(uV/m)	(dBuV/m)		
0.009 - 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80		
0.490 - 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40		
1.705 - 30.00	30	30m	100* 30	20log 30 + 40		
30.0 - 88.0	100	3m	100	20log 100		
88.0 - 216.0	150	3m	150	20log 150		
216.0 - 960.0	200	3m	200	20log 200		
Above 960.0	500	3m	500	20log 500		

Limit: 2400/125=19.2uV/m@300m

Distance Correction Factor=40log(test distance/specific distance)

4.5.EUT Configuration on Measurement

The equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.



4.6.Operating Condition of EUT

- 4.6.1.Setup the EUT and simulator as shown as Section 4.2.
- 4.6.2.Turn on the power of all equipment.
- 4.6.3.Let the EUT work in test mode and measure it.

4.7.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2014 on radiated emission measurement.

From 9kHz to 30MHz at distance 3m The EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

From 30MHz to 1000MHz at distance 3m The measuring antenna height varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity. The measurements were performed for both vertical and horizontal antenna polarization.

The final measurement will be performed with an EMI Receiver set to Quasi Peak detector for the frequency bands 9kHz to 90kHz and 110 to 490 kHz where an average detector will be used according to Section 15.209(d)(2).

The final level, expressed in dBuV/m, is arrived at by taking the reading from the EMI receiver(Level dBuV) and adding the antenna correction factor and cable loss factor(Factor dB) to it. This result then has to be compared with the relevant FCC limit.The resolution bandwidth during the measurement is as follows: 9kHz – 150kHz: ResBW:200Hz 150kHz – 30MHz: ResBW:9kHz

The bandwidth of the EMI test receiver (R&S ESCS30) is set at 120kHz from 30MHz to 1000MHz.

4.8.Radiated Emission Noise Measurement Result

PASS.

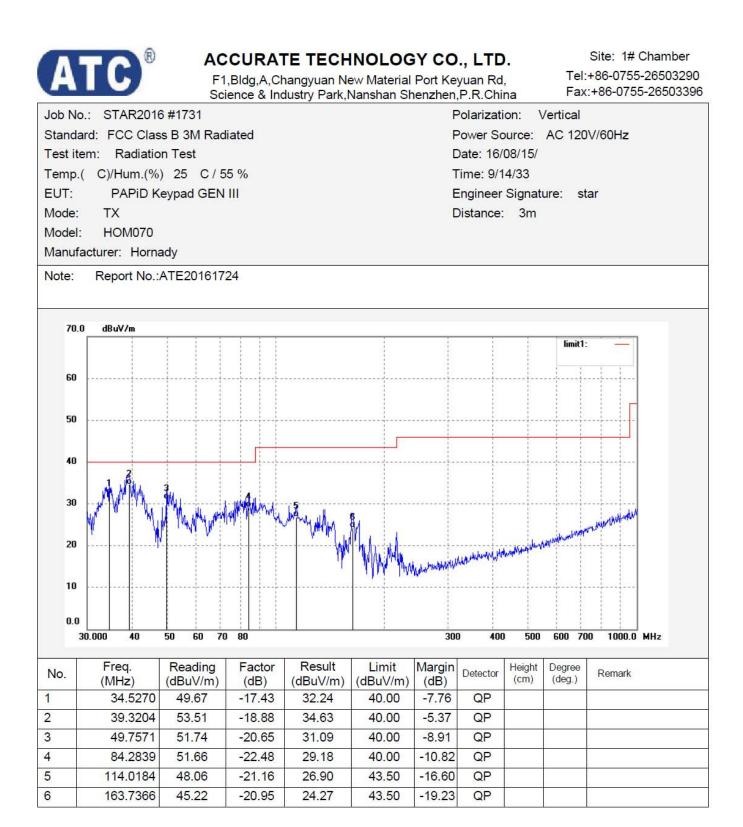


From 9 kHz to 30MHz

Frequency (MHz)	Quasi Peak (dBµV/m)	Azimuth	Polarity (H/V)	Factors (dBµV/m)	Limit (dBµV/m)	Margin (dB)
0.125	72.58	147	Н	-56.36	105.7	-33.12
2.02	38.74	34	Н	-54.15	69.5	-30.76
14.25	39.25	210	Н	-53.01	69.5	-30.25
0.125	74.44	220	V	-56.36	105.7	-31.26
3.68	43.51	320	V	-51.27	69.5	-25.99
17.35	34.77	54	V	-51.25	69.5	-34.73

Part 15 Section 15.31(f)(2) (9kHz-30MHz) Limit at 3m=Limit at 300m-40*log(300(m)/3(m)) Limit at 3m=Limit at 30m-40*log(30(m)/3(m))

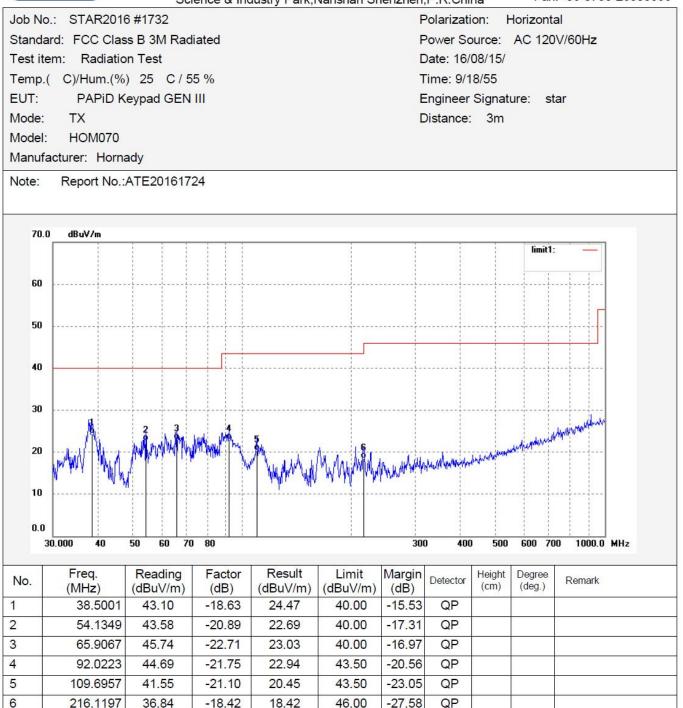








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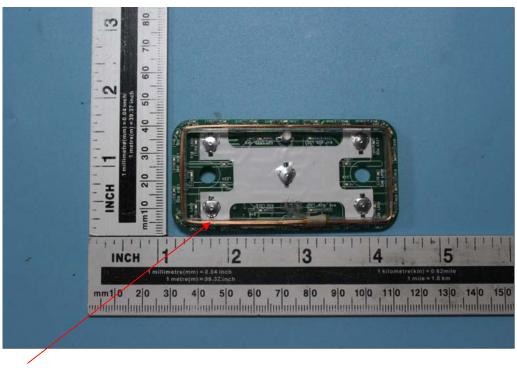
5. ANTENNA REQUIREMENT

5.1.The Requirement

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

5.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 3dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna