

# FCC SDoC REPORT

## ICES-003 TEST REPORT

**Project No.** : TM-2207000185P  
**Applicant** : INVENTEC CORPORATION  
**Address** : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.  
**Manufacturer** : INVENTEC CORPORATION  
**Address** : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.

**Equipment Under Test (EUT) :**  
**Product Name** : Notebook Computer  
**Brand Name** : HP  
**Model No.** : HSN-I57C  
**Added Model(s)** : N/A  
**Test Voltage** : AC 120V, 60Hz  
**Standards** : 47 CFR FCC Part 15 Subpart B  
ICES-003 Issue 7: October 2020  
ANSI C63.4: 2014  
**Date of Sample Receipt** : Aug. 01, 2022  
**Date of Test** : Aug. 01 ~ 05, 2022  
**Date of Issue** : Sep. 28, 2022

<b>Test Result :</b>	<b>PASS</b>
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In the configuration tested, the EUT complied with the standards specified above.

**Remarks :**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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**Approved By:**



**Date:**

Sep. 28, 2022



**Hex Chiang (Asst. Manager)**

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## Revision History

Revision	Report Number	Description	Issue Date
00	TMWK2207002845KE	Original	Sep. 28, 2022

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# 1. General Information

## 1.1 Applicant & Manufacturer Information

Applicant : INVENTEC CORPORATION  
Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.

Manufacturer : INVENTEC CORPORATION  
Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.

## 1.2 General Description of EUT

Product Name : Notebook Computer  
Brand Name : HP  
Model No. : HSN-I57C  
Added Model(s) : N/A  
Variant Description : See the following note.

**Note:**

1. There are two appearance types for EUT. Please refer to the following table and external photographs:

Appearance Type	Function
1	Without pen
2	With pen

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### 1.3 Details of EUT

EUT Power Rating	AC 100 ~ 240V	
Highest operate description	7.1GHz	
AC Adapter	Acbel(hp)	TPN-AA05
		TPN-AA07
	Chicony(hp)	TPN-CA14
		TPN-CA15
		TPN-CA17
		TPN-CA20
	Delta(hp)	TPN-DA15
		TPN-DA16
		TPN-DA22
	Lite-On(hp)	TPN-LA15
		TPN-LA17
		TPN-LA19
Adapter Power Rating	<b>For TPN-AA05; TPN-CA14; TPN-CA15; TPN-DA16; TPN-DA22</b> I/P: 100-240Vac, 50-60Hz, 1.4A O/P: 19.5Vdc, 2.31A	
	<b>For TPN-AA07; TPN-CA20; TPN-DA15; TPN-LA19</b> I/P: 100-240Vac, 50-60Hz, 1.4A O/P: 5Vdc, 3A; 9Vdc, 3A; 12Vdc, 3A; 15Vdc, 3A	
	<b>For TPN-CA17; TPN-LA17</b> I/P: 100-240Vac, 50-60Hz, 1.7A O/P: 19.5Vdc, 3.33A	
	<b>For TPN-LA15</b> I/P: 100-240Vac, 50-60Hz, 1.1A O/P: 19.5Vdc, 2.31A	
AC Power Cord Type	Shielded, 1.8m (Detachable) to Power Adaptor	
DC Power Cable Type	<b>For DC Cable</b> Non-shielded, 1.8m (Non-Detachable) to Power Adapter	
	<b>For Type C</b> Shielded, 1.8m (Non-Detachable) to Power Adapter	
Memory	DDR 4 3200MHz (8GB/16GB/32GB)	
Main Board	Inventec	HSN-I57MB
CPU	Intel	Celeron N100 0.8GHz
		Pentium N200 1.0GHz

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11.6" LCD Panel	AUO	B116XTN02.3
		B116XAN06.1
	BOE	NT116WHM-N21
		NV116WHM-N4C
	INX	N116BGE-EA2
		N116BCA-EA2
	HKC	MB116AN01
Touch Screen	IVO	M116NWR6
	GIS	9AN11611-001
eMMC	Henghao	HD-T1162A01-F6CA
	Hynix	H26M74002HMR (64GB)
	Kingston	EMMC64G-TY29-HP (64GB)
		EMMC128-TY29-HP (128GB)
	Samsung	KLMCG2UCTB-B041 (64GB)
		KLMDG4UCTB-B041 (128GB)
	Western Digital	SDINBDV4-64-1014V (64GB)
		SDINBDV4-128-1014V (128GB)
SSD	SSSTC	CL4-3D256-HP (256GB)
	Kingston	OM3PDP3256B-AH (256GB)
	Western Digital	SDDPTQD-256G-1006 (256GB)
	Kioxia	KBG50ZNS256G (256GB)
	Micron	MTFDKKBK256TFK-1BC1AABHA (256GB)
Battery Pack	CosMX (hp)	HSTNN-OB2K
		HSTNN-OB3D
	Dynapack (hp)	TPN-DB0M
		TPN-DB1K
Wireless LAN+Bluetooth Combo	Intel	AX211NGW
	Realtek	RTL8852CE
WWAN	Fibocom	L860-GL-16
CCD	Chicony	CNFKH4621004330LH
	Foxlink	FX10FF-759H
	Luxvisions	9SF106N3
	TFC	YHKI-A

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2 <sup>nd</sup> Camera	Luxvisions	1BA501N3
	TFC	YHLN
Slim Rechargeable Pen (Optional)	Wacom	HSN-W003P

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## Pre-test Mode

Mode	CPU	Memory	Panel	Touch Screen	SSD	eMMC	WLAN+BT	WWAN	CCD	2nd Camera	Battery Pack	Pen	Main Board	Adapter	Type
1	Intel Celeron N100 0.8GHz	8GB DDR4 3200MHz	AUO B116XTN02.3	GIS 9AN11611-001	N/A	Hynix H26M74002HMR (64GB)	Intel AX211NGW	Fibocom L860-GL-16	Chicony CNFKH4621004330LH	Luxvisions 1BA501N3	CosMX (hp) HSTNN-OB2K	N/A	Inventec HSN-I57MB	Acbel(hp) TPN-AA05	1
2	Intel Pentium N200 1.0GHz	16GB DDR4 3200MHz	AUO B116XAN06.1	Henghao HD-T1162A01-F6CA	N/A	Kingston EMMC64G-TY29-HP (64GB)	Realtek RTL8852CE	Fibocom L860-GL-16	Foxlink FX10FF-759H	TFC YHLN	CosMX (hp) HSTNN-OB3D	Wacom HSN-W003P	Inventec HSN-I57MB	Acbel(hp) TPN-AA07	2
3	Intel Pentium N200 1.0GHz	32GB DDR4 3200MHz	BOE NT116WHM-N21	Henghao HD-T1162A01-F6CA	N/A	Kingston EMMC128-TY29-HP (128GB)	Intel AX211NGW	Fibocom L860-GL-16	Luxvisions 9SF106N3	TFC YHLN	Dynapack (hp) TPN-DB0M	Wacom HSN-W003P	Inventec HSN-I57MB	Chicony(hp) TPN-CA14	2
4	Intel Pentium N200 1.0GHz	32GB DDR4 3200MHz	BOE NV116WHM-N4C	Henghao HD-T1162A01-F6CA	N/A	Samsung KLMCG2UCTB-B041 (64GB)	Intel AX211NGW	Fibocom L860-GL-16	TFC YHKI-A	TFC YHLN	Dynapack (hp) TPN-DB1K	Wacom HSN-W003P	Inventec HSN-I57MB	Chicony(hp) TPN-CA15	2
5	Intel Pentium N200 1.0GHz	32GB DDR4 3200MHz	INX N116BGE-EA2	Henghao HD-T1162A01-F6CA	N/A	Samsung KLMCG4UUCTB-B041 (128GB)	Intel AX211NGW	Fibocom L860-GL-16	TFC YHKI-A	TFC YHLN	CosMX (hp) HSTNN-OB3D	Wacom HSN-W003P	Inventec HSN-I57MB	Chicony(hp) TPN-CA17	2
6	Intel Pentium N200 1.0GHz	32GB DDR4 3200MHz	INX N116BCA-EA2	Henghao HD-T1162A01-F6CA	N/A	Western Digital SDINBDV4-64-1014V (64GB)	Intel AX211NGW	Fibocom L860-GL-16	TFC YHKI-A	TFC YHLN	CosMX (hp) HSTNN-OB3D	Wacom HSN-W003P	Inventec HSN-I57MB	Chicony(hp) TPN-CA20	2
7	Intel Pentium N200 1.0GHz	32GB DDR4 3200MHz	HKC MB116AN01	Henghao HD-T1162A01-F6CA	N/A	Western SDINBDV4-128-1014V (128GB)	Intel AX211NGW	Fibocom L860-GL-16	TFC YHKI-A	TFC YHLN	CosMX (hp) HSTNN-OB3D	Wacom HSN-W003P	Inventec HSN-I57MB	Lite-On(hp) TPN-LA19	2
8	Intel Pentium N200 1.0GHz	32GB DDR4 3200MHz	I/O M116NWR6	Henghao HD-T1162A01-F6CA	SSSTC CL4-3D256-HP (256GB)	N/A	Intel AX211NGW	Fibocom L860-GL-16	TFC YHKI-A	TFC YHLN	CosMX (hp) HSTNN-OB3D	Wacom HSN-W003P	Inventec HSN-I57MB	Lite-On(hp) TPN-LA17	2
9	Intel Pentium N200 1.0GHz	32GB DDR4 3200MHz	BOE NV116WHM-N4C	Henghao HD-T1162A01-F6CA	Kingston OM3PDP3256B-AH (256GB)	N/A	Intel AX211NGW	Fibocom L860-GL-16	TFC YHKI-A	TFC YHLN	CosMX (hp) HSTNN-OB3D	Wacom HSN-W003P	Inventec HSN-I57MB	Lite-On(hp) TPN-LA15	2
10	Intel Pentium N200 1.0GHz	32GB DDR4 3200MHz	BOE NV116WHM-N4C	Henghao HD-T1162A01-F6CA	Western Digital SDDPT00-256G-1006 (256GB)	N/A	Intel AX211NGW	Fibocom L860-GL-16	TFC YHKI-A	TFC YHLN	CosMX (hp) HSTNN-OB3D	Wacom HSN-W003P	Inventec HSN-I57MB	Delta(hp) TPN-DA15	2
11	Intel Pentium N200 1.0GHz	32GB DDR4 3200MHz	BOE NV116WHM-N4C	Henghao HD-T1162A01-F6CA	Kioxia KBG50ZNS256G (256GB)	N/A	Intel AX211NGW	Fibocom L860-GL-16	TFC YHKI-A	TFC YHLN	CosMX (hp) HSTNN-OB3D	Wacom HSN-W003P	Inventec HSN-I57MB	Delta(hp) TPN-DA16	2
12	Intel Pentium N200 1.0GHz	32GB DDR4 3200MHz	BOE NV116WHM-N4C	Henghao HD-T1162A01-F6CA	Micron MTFDKBK256TFK-1BC1AABHA (256GB)	N/A	Intel AX211NGW	Fibocom L860-GL-16	TFC YHKI-A	TFC YHLN	CosMX (hp) HSTNN-OB3D	Wacom HSN-W003P	Inventec HSN-I57MB	Delta(hp) TPN-DA22	2

## 1.4 The worst case of the EUT

EUT will be carried out in the worst case as followings:

Worst Case	
CE	Mode 9 (1366 x 768 Resolution)
Below 1GHz RE	Mode 9 (1366 x 768 Resolution)
Above 1GHz RE	Mode 9 (1366 x 768 Resolution)

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## 1.5 Description of Support Units

Mode 9:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Earphone	APPLE	N/A	N/A
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
Mouse	HP	MOAFUO	PSB1030013577
HDD	WD	My Passport	WXD1E849K9YF
Notebook PC (Remote)	Lenovo	TP00103G	PF-24WF25
Wireless AP (Remote)	ASUS	GT-AXE11000	M3IAJF201439
SIM Card	N/A	N/A	N/A
Universal Radio Communication (Remote)	Anritsu	MT8820C	N/A
GPS Simulator (Remote)	IFR	GPS-101	N/A

## Support Equipment Used in Tested Cable

Mode 9:

Cable Type	Core	Length	Shielding/Non-shielding
DC Power Port (1)	N/A	1.8m	Non-Shielding
Type C Cable (2)	N/A	1.8m	Shielding
HDMI Cable (3)	N/A	1.8m	Shielding
USB HDD Cable (4)	N/A	0.6m	Shielding
Earphone Cable (5)	N/A	1.8m	Non-Shielding
USB Mouse Cable (6)	N/A	1.8m	Shielding
LAN Cable (7)	N/A	10.0m	Non-Shielding

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## 1.6 Operation Procedure

Mode 9:

1. Turn on the power of all equipment.
2. The EUT communicates with Notebook PC by Bluetooth radio.
3. The EUT communicates with Wireless AP by WIFI radio.
4. The EUT will reads/writes disk through "WINEMC" test software.
5. EUT execute the "WINEMC" test software to send "H" Pattern to display on the screen.
6. Executed "AMCAP2" software to turn-on the Camera.
7. The EUT transfers data to another Notebook PC via LAN Port.
8. The EUT will receive the LTE signal source and continue to operate.
9. The EUT will receive the GPS signal source and sustained action.
10. Setup the condition for test mode and begin the test.

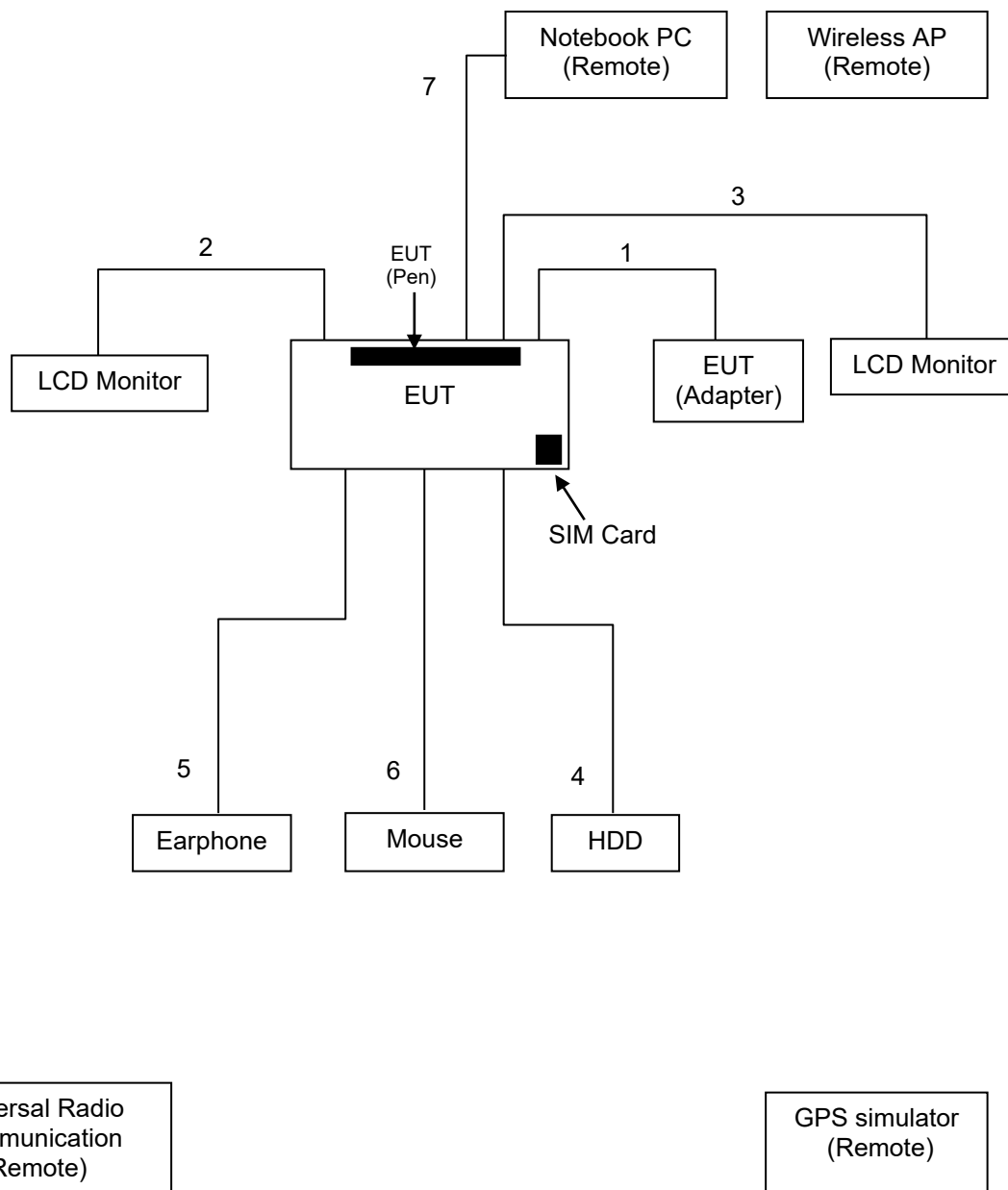
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## 1.7 Test Set-Up Configuration

Mode 9:



## 1.8 Accessories Cable List

See clause 1.3 of this report

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## 1.9 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 3/10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequency and amplitude of the worse emissions were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

## 1.10 Standards Applicable for Testing

Tests to be carried out under 47 CFR FCC Part 15 Subpart B/CISPR 22/  
ICES-003/ANSI C63.4: 2014

Test Standards	Status
47 CFR FCC Part 15 Subpart B CISPR 22 ICES-003 ANSI C63.4: 2014	Applicable
Deviation from Standard	No deviation

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### 1.11 Decision Rules of Results

Reported measurement data comply with 47 CFR FCC Part 15 Subpart B and ICES-003.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 1.12 Summary of Results

Standard	Test Type	Result
47 CFR FCC Part 15 Subpart B ICES-003 Issue 7: October 2020 ANSI C63.4: 2014	Conducted Emission	PASS
	Radiated Emission	PASS

### 1.13 Reporting Statements of Conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 2. EMISSION

### 2.1 Test Results

Conducted Emission	Pass
Radiated Emission	Pass

### 2.2 Frequency Range

#### 47 CFR FCC Part 15 Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

#### ICES-003:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : 30 MHz to 5<sup>th</sup> harmonic of the highest frequency or 40GHz, whichever is lower.

Highest internal frequency ( $F_x$ )	Highest measurement frequency
$F_x \leq 108$ MHz	1 GHz
108 MHz < $F_x \leq 500$ MHz	2 GHz
500 MHz < $F_x \leq 1$ GHz	5 GHz
$F_x > 1$ GHz	5 x $F_x$ up to a maximum of 40 GHz

Note:  $F_x$  is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.

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## 2.3 Limits of Conducted and Radiated Emission

### 2.3.1 Limits of Conducted Emission

#### 47 CFR FCC Part 15 Subpart B:

FREQUENCY (MHz)	Class A dB(μV)		Class B dB(μV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 – 5.0	73	60	56	46
5.0 – 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

#### ICES-003:

FREQUENCY (MHz)	Class A dB(μV)		Class B dB(μV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56*	56 - 46*
0.50 – 5.0	73	60	56	46
5.0 – 30.0	73	60	60	50

Note: The more stringent limit applies at transition frequencies.

\*. The limit level in dBμV decreases linearly with the logarithm of frequency.

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## 2.3.2 Limits of Radiated Emissions

### 47 CFR FCC Part 15 Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dB(μV/m)	dB(μV/m)
30~88	39	40
88~216	43.5	43.5
216~960	46.4	46
960~1000	49.5	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A dB(μV/m) (at 3 m)		Class B dB(μV/m) (at 3 m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

### CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dB(μV/m)	dB(μV/m)
30~230	40	30
230~1000	47	37

Note 1 The lower limit shall apply at the transition frequency.

2 Additional provisions may be required for cases where interference occurs.

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### ICES-003 Limit:

- Detector Function : Quasi-peak

Frequency (MHz)	Class A (3 m) dB( $\mu$ V/m)	Class A (10 m) dB( $\mu$ V/m)	Class B (3 m) dB( $\mu$ V/m)	Class B (10 m) dB( $\mu$ V/m)
30 - 88	50	40	40	30
88 - 216	54	43.5	43.5	33.1
216 - 230	56.9	46.4	46	35.6
230 - 960	57	47	47	37
960 - 1000	60	49.5	54	43.5

Note: The more stringent limit applies at transition frequencies

- Detector Function : Peak, Average

Frequency (MHz)	Class A (3 m) dB( $\mu$ V/m)		Class B (3 m) dB( $\mu$ V/m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

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## 2.4. Test of Conducted Emission

### 2.4.1 Test Equipments

Conducted_Emission Conducted Room No.B_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	EMCI	EMCRG142	190809	04/22/2022	04/21/2023
EMI Test Receiver	R&S	ESR3	102915	11/29/2021	11/28/2022
LISN	Schwarzbeck	NSLK 8127	01068	01/17/2022	01/16/2023
LISN	Schwarzbeck	NSLK 8127	01069	01/17/2022	01/16/2023
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00815	02/23/2022	02/22/2023
Software	CCS-3A1-CE				
Compliance Certification Services Inc. (Wugu Laboratory)					
Testing Site: No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Conducted Emission					
Expanded uncertainty U <sub>lab</sub> (k=2) of Conducted Emission is 3.06 dB.					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Conducted Emission measurement is 3.44 dB					

### 2.4.2 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss + Pulse Limiter insertion loss

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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### 2.4.3 Measurement Data:

Model no.	HSN-I57C	Line:	L1
Environmental Conditions	24°C, 46% RH	Tested Date	2022/08/01
Test Mode	Mode 9	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
1	0.1860	36.87	23.28	10.28	47.15	33.56	64.21	54.21	-17.06	-20.65	Pass
2	0.1980	35.59	21.72	10.28	45.87	32.00	63.69	53.69	-17.82	-21.69	Pass
3	0.2460	30.43	13.24	10.28	40.71	23.52	61.89	51.89	-21.18	-28.37	Pass
4	0.2700	28.68	9.68	10.28	38.96	19.96	61.12	51.12	-22.16	-31.16	Pass
5*	6.4180	29.76	24.52	10.47	40.23	34.99	60.00	50.00	-19.77	-15.01	Pass
6	12.0980	28.34	24.41	10.56	38.90	34.97	60.00	50.00	-21.10	-15.03	Pass

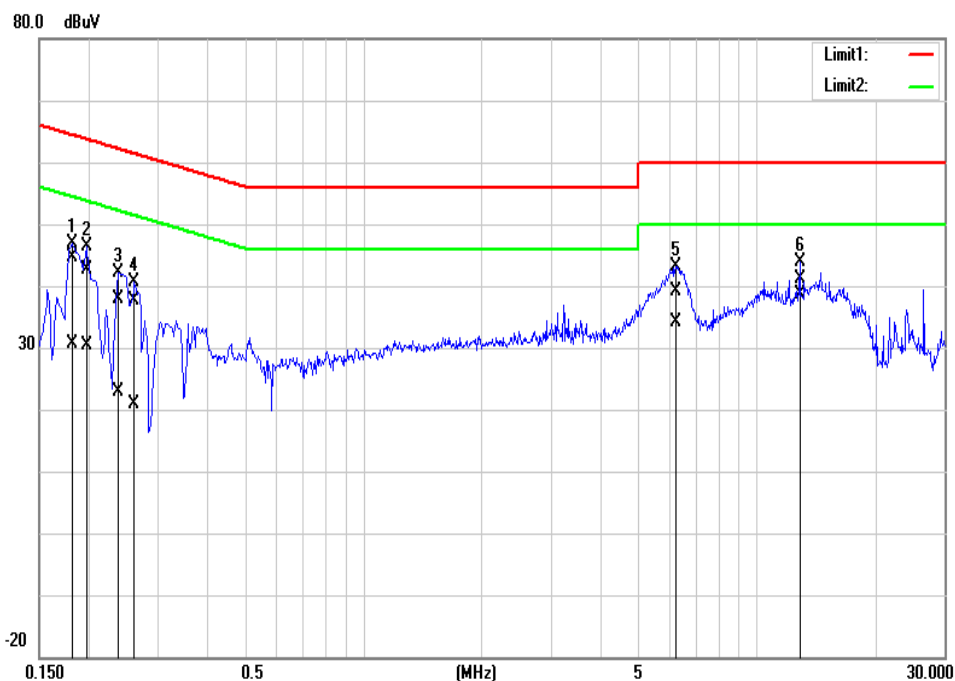
**Note:** L1 = Live Line

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Model no.	HSN-I57C	Line:	N
Environmental Conditions	24°C, 46% RH	Tested Date	2022/08/01
Test Mode	Mode 9	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	0.1819	34.30	20.26	10.26	44.56	30.52	64.39	54.40	-19.83	-23.88	Pass
2	0.1980	32.47	20.14	10.26	42.73	30.40	63.69	53.69	-20.96	-23.29	Pass
3	0.2380	27.72	12.51	10.26	37.98	22.77	62.16	52.17	-24.18	-29.40	Pass
4	0.2620	27.36	10.50	10.26	37.62	20.76	61.36	51.37	-23.74	-30.61	Pass
5	6.2300	28.80	23.58	10.44	39.24	34.02	60.00	50.00	-20.76	-15.98	Pass
6*	12.9100	30.64	28.04	10.58	41.22	38.62	60.00	50.00	-18.78	-11.38	Pass

**Note:** N = Neutral Line

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## 2.5 Test of Radiated Emission

### 2.5.1 Test Equipments

#### Below 1GHz

Radiated_Below_1GHz 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Bilog Antenna	TESEQ	CBL 6112D	31674	02/15/2022	02/14/2023
Bilog Antenna	TESEQ	CBL 6112D	31675	03/11/2022	03/10/2023
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	330029	04/22/2022	04/21/2023
Coaxial Cable	Huber+Suhner	104PEA	33948/4PEA	04/22/2022	04/21/2023
Coaxial Cable	Huber+Suhner	104PEA	33949/4PEA	04/22/2022	04/21/2023
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	24813	04/22/2022	04/21/2023
EMI Test Receiver	R&S	ESCI	100961	05/11/2022	05/10/2023
EMI Test Receiver	R&S	ESCI	100962	05/19/2022	05/18/2023
Pre-Amplifier	HP	8447D	2944A07754	04/22/2022	04/21/2023
Pre-Amplifier	HP	8447D	2944A08150	04/22/2022	04/21/2023
AC POWER SOURCE	APE	AFC-130	991259	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	EZ-EMC (CCS-3A1RE)				
Compliance Certification Services Inc. (Wugu Laboratory)					
Testing Site: No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty U <sub>lab</sub> (k=2) of Radiated Emission is 4.41 dB. (30MHz-1GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.22 dB. (30MHz-1GHz)					

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## Above 1GHz

Radiated_Above_1GHz 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Band Reject Filters	MICRO TRONICS	BRM 50702	112	11/23/2021	11/22/2022
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	329383	04/22/2022	04/21/2023
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	33945	04/22/2022	04/21/2023
Horn Antenna	ETS LINDGREN	3116	00026370	11/30/2021	11/29/2022
Horn Antenna	EMCO	3117	00055167	11/25/2021	11/24/2022
Pre-Amplifier	EMCI	EMC051845	980040	04/22/2022	04/21/2023
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	09/08/2021	09/07/2022
Spectrum Analyzer	Agilent	E4446A	MY48250297	08/18/2021	08/17/2022
AC POWER SOURCE	APE	AFC-130	991259	N.C.R	N.C.R
Antenna Tower	Sunol Sciences	TLT2	031010-5	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	031010-1	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	EZ-EMC (CCS-3A1RE)				
Compliance Certification Services Inc. (Wugu Laboratory)					
Testing Site: No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty U <sub>lab</sub> (k=2) of Radiated Emission measurement is 4.97 dB. (1-6GHz)					
Expanded uncertainty U <sub>lab</sub> (k=2) of Radiated Emission measurement is 5.13 dB. (6-18GHz)					
Expanded uncertainty U <sub>lab</sub> (k=2) of Radiated Emission measurement is 3.94 dB. (18-40GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.18 dB. (1-6GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.48 dB. (6-18GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is --- dB. (18-40GHz)					

## 2.5.2 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss - Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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Compliance Certification Services Inc.

程智科技股份有限公司

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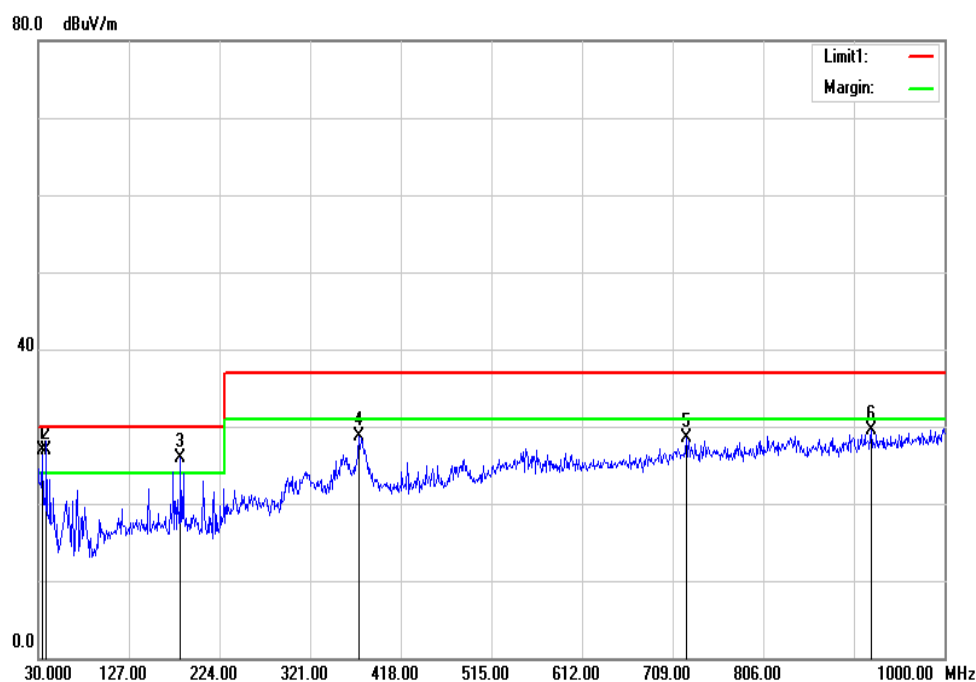
[www.sgs.tw](http://www.sgs.tw)

[www.ccsrf.com](http://www.ccsrf.com)

### 2.5.3 Measurement Data

#### Below 1GHz

Model no.	HSN-I57C	Test Mode	Mode 9
Environmental Conditions	24°C, 50% RH	Tested Date	2022/08/05
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	33.8800	31.56	-4.70	26.86	30.00	-3.14	100	235	QP
2	38.7300	34.22	-7.26	26.96	30.00	-3.04	100	197	QP
3	182.2900	35.69	-9.82	25.87	30.00	-4.13	100	172	QP
4	373.3800	31.23	-2.49	28.74	37.00	-8.26	400	359	QP
5	723.5500	26.12	2.38	28.50	37.00	-8.50	199	359	QP
6	921.4300	24.10	5.31	29.41	37.00	-7.59	200	0	QP

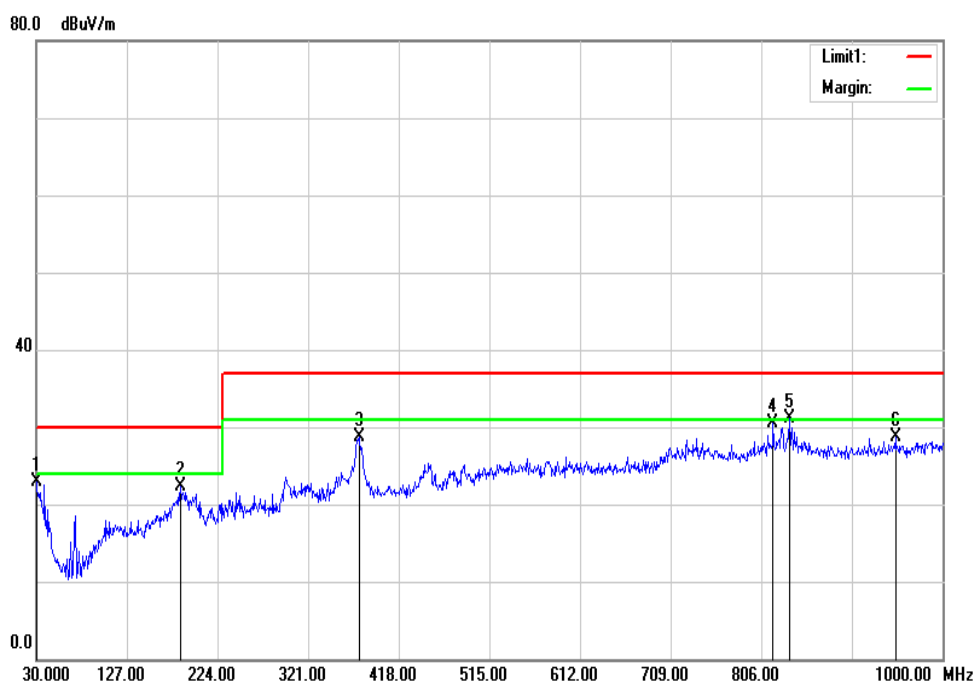
**REMARKS:** The other emission levels were very low against the limit.

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Model no.	HSN-I57C	Test Mode	Mode 9
Environmental Conditions	24°C, 50% RH	Tested Date	2022/08/05
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	26.27	-3.35	22.92	30.00	-7.08	100	138	QP
2	184.2300	33.30	-10.97	22.33	30.00	-7.67	300	11	QP
3	375.3200	32.86	-4.18	28.68	37.00	-8.32	199	360	QP
4	818.6100	28.60	1.88	30.48	37.00	-6.52	100	61	QP
5	836.0700	29.04	2.08	31.12	37.00	-5.88	100	100	QP
6	949.5600	25.13	3.54	28.67	37.00	-8.33	100	100	QP

**REMARKS:** The other emission levels were very low against the limit.

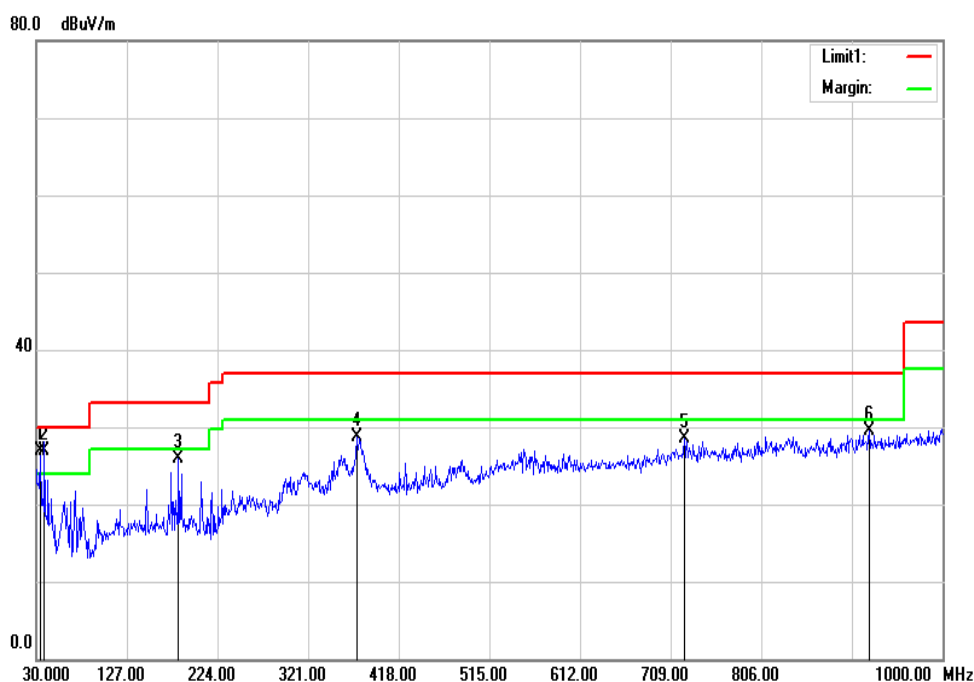
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Model no.	HSN-I57C	Test Mode	Mode 9
Environmental Conditions	24°C, 50% RH	Tested Date	2022/08/05
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	33.8800	31.56	-4.70	26.86	30.00	-3.14	100	235	QP
2	38.7300	34.22	-7.26	26.96	30.00	-3.04	100	197	QP
3	182.2900	35.69	-9.82	25.87	33.10	-7.23	100	172	QP
4	373.3800	31.23	-2.49	28.74	37.00	-8.26	400	359	QP
5	723.5500	26.12	2.38	28.50	37.00	-8.50	199	359	QP
6	921.4300	24.10	5.31	29.41	37.00	-7.59	200	0	QP

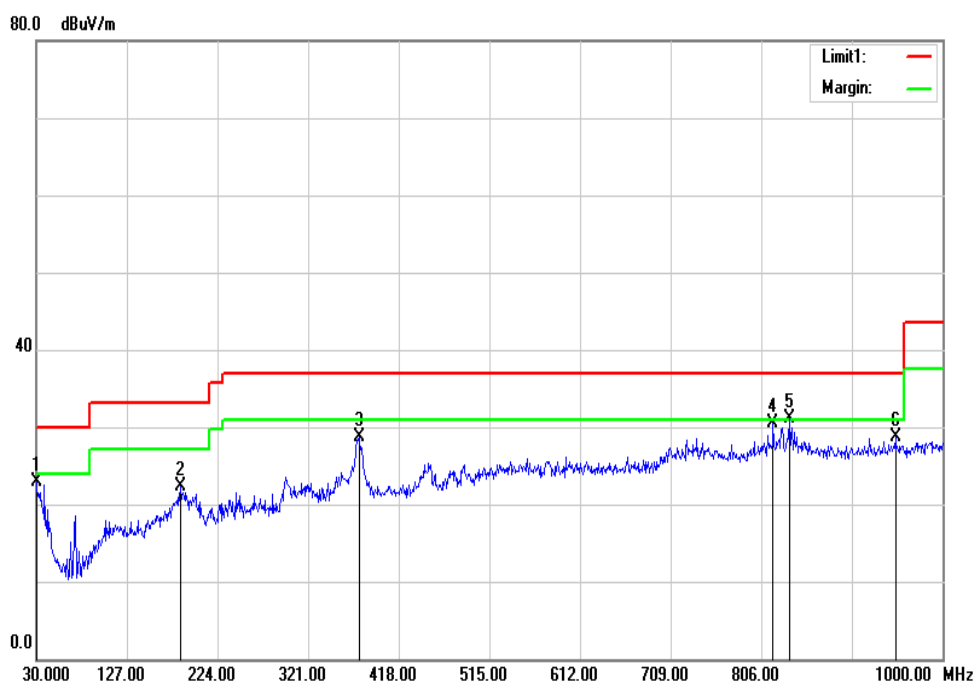
**REMARKS:** The other emission levels were very low against the limit.

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Model no.	HSN-I57C	Test Mode	Mode 9
Environmental Conditions	24°C, 50% RH	Tested Date	2022/08/05
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	26.27	-3.35	22.92	30.00	-7.08	100	138	QP
2	184.2300	33.30	-10.97	22.33	33.10	-10.77	300	11	QP
3	375.3200	32.86	-4.18	28.68	37.00	-8.32	199	360	QP
4	818.6100	28.60	1.88	30.48	37.00	-6.52	100	61	QP
5	836.0700	29.04	2.08	31.12	37.00	-5.88	100	100	QP
6	949.5600	25.13	3.54	28.67	37.00	-8.33	100	100	QP

**REMARKS:** The other emission levels were very low against the limit.

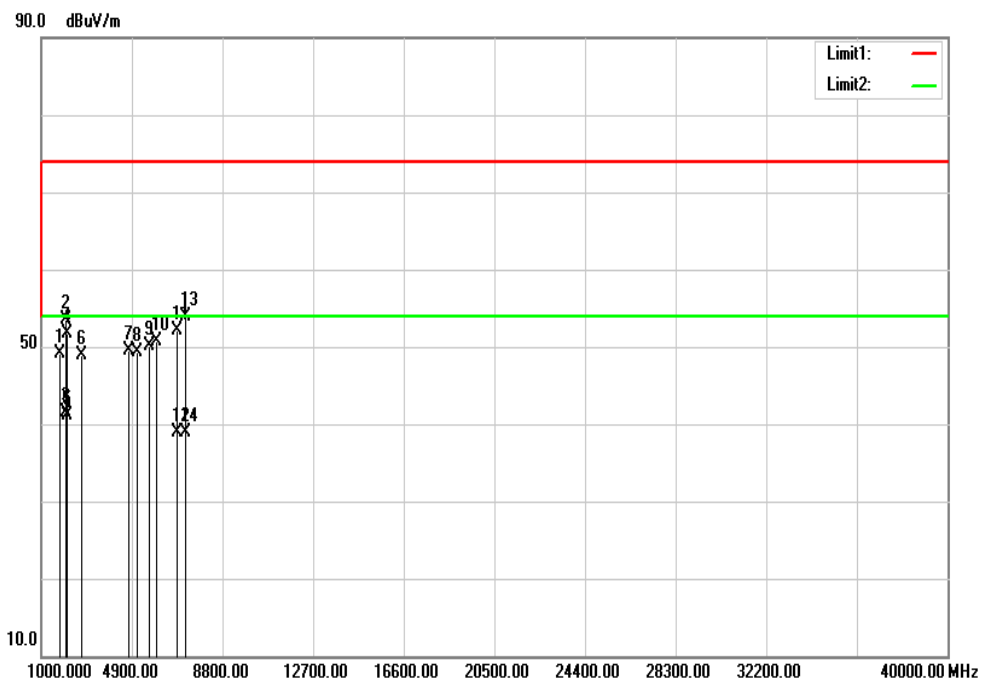
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### Above 1GHz

Model no.	HSN-I57C	Test Mode	Mode 9
Environmental Conditions	24°C, 50% RH	Tested Date	2022/08/05
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	7.1GHz	Upper frequency	35.5GHz
Detector Function	Peak & Average	Tested By	Rex Kuo
6dB Bandwidth	1 MHz	Identifier number	TCOP RF site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1782.000	64.54	-15.42	49.12	74.00	-24.88	200	266	peak
2	2045.500	67.16	-13.56	53.60	74.00	-20.40	100	223	peak
3	2045.500	55.13	-13.56	41.57	54.00	-12.43	100	223	AVG
4	2088.000	64.96	-13.25	51.71	74.00	-22.29	100	233	peak
5	2088.000	54.32	-13.25	41.07	54.00	-12.93	100	233	AVG
6	2708.500	61.76	-12.80	48.96	74.00	-25.04	100	307	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
7	4731.500	56.94	-7.46	49.48	74.00	-24.52	400	111	peak
8	5131.000	56.43	-7.20	49.23	74.00	-24.77	300	117	peak
9	5632.500	56.16	-6.02	50.14	74.00	-23.86	246	0	peak
10	5938.500	56.07	-5.38	50.69	74.00	-23.31	200	345	peak
11	6822.500	55.87	-3.76	52.11	74.00	-21.89	100	83	peak
12	6822.500	42.69	-3.76	38.93	54.00	-15.07	100	83	AVG
13	7171.000	57.25	-3.42	53.83	74.00	-20.17	180	360	peak
14	7171.000	42.34	-3.42	38.92	54.00	-15.08	180	360	AVG

**REMARKS:**

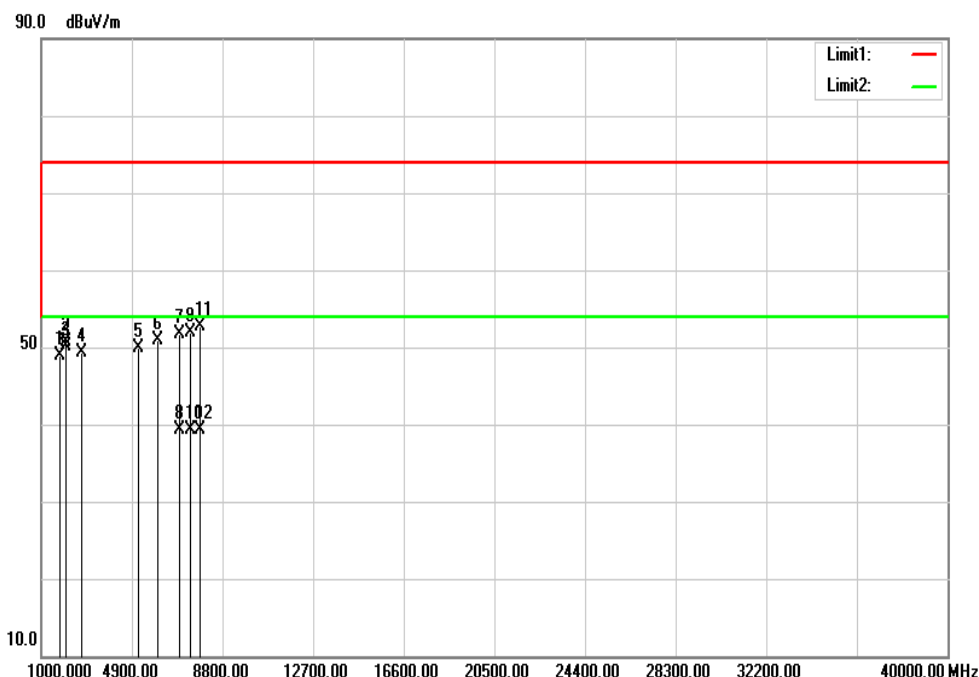
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	HSN-I57C	Test Mode	Mode 9
Environmental Conditions	24°C, 50% RH	Tested Date	2022/08/05
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	7.1GHz	Upper frequency	35.5GHz
Detector Function	Peak & Average	Tested By	Rex Kuo
6dB Bandwidth	1 MHz	Identifier number	TCOP RF site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1782.000	64.38	-15.42	48.96	74.00	-25.04	300	294	peak
2	2045.500	64.26	-13.56	50.70	74.00	-23.30	200	224	peak
3	2088.000	63.35	-13.25	50.10	74.00	-23.90	100	285	peak
4	2708.500	62.10	-12.80	49.30	74.00	-24.70	400	313	peak
5	5165.000	56.87	-7.05	49.82	74.00	-24.18	100	0	peak
6	6006.500	56.14	-5.33	50.81	74.00	-23.19	208	360	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
7	6958.500	55.16	-3.40	51.76	74.00	-22.24	200	84	peak
8	6958.500	42.62	-3.40	39.22	54.00	-14.78	200	84	AVG
9	7383.500	55.41	-3.55	51.86	74.00	-22.14	100	80	peak
10	7383.500	42.76	-3.55	39.21	54.00	-14.79	100	80	AVG
11	7800.000	56.46	-3.71	52.75	74.00	-21.25	300	56	peak
12	7800.000	43.01	-3.71	39.30	54.00	-14.70	300	56	AVG

**REMARKS:**

1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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# APPENDIX

## Photograph of Testing General Set-up

### CE Testing Set-up

Model No.: HSN-I57C

Mode\_9\_+



Mode\_9\_-



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## RE Testing Set-up Below 1GHz

Model No.: HSN-I57C

Mode\_9\_+



Mode\_9\_-



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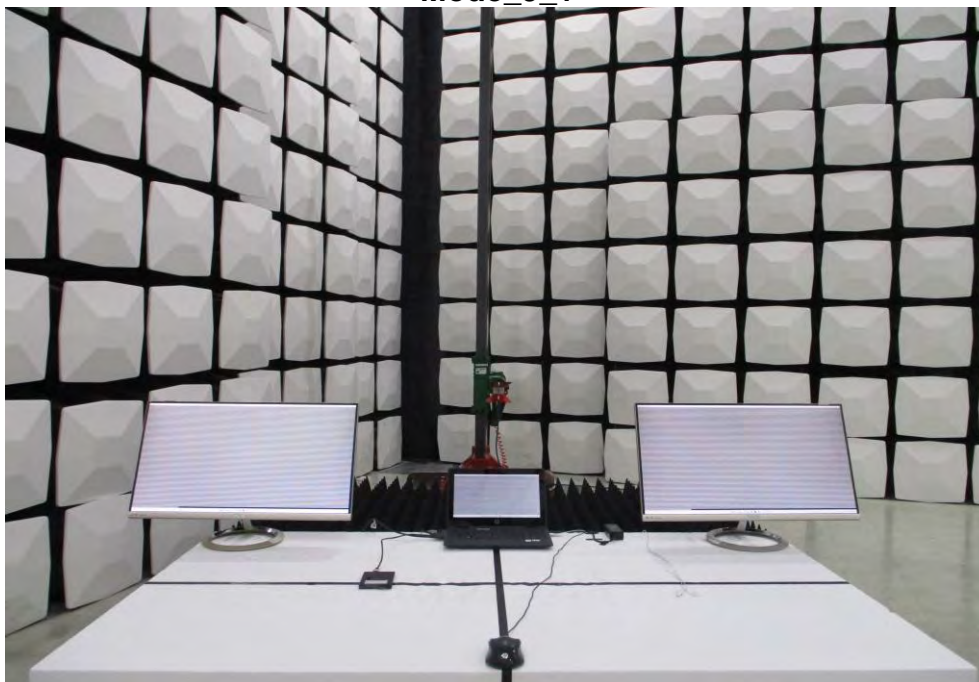
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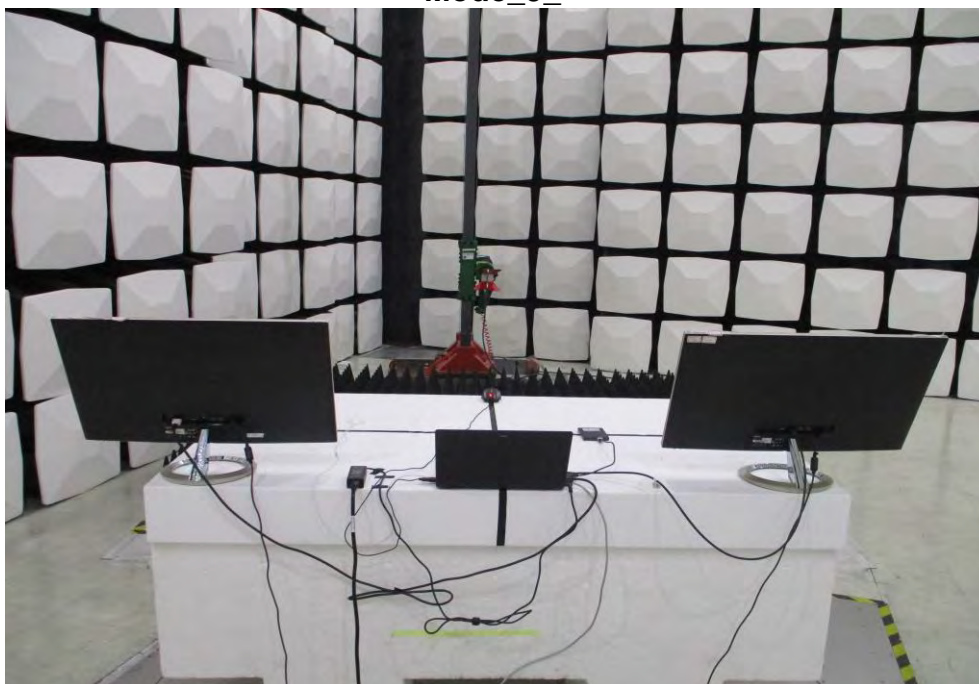
Above 1GHz

Model No.: HSN-I57C

Mode\_9\_+



Mode\_9\_-



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## Photographs of Product

### Exterior

Model No.: HSN-I57C

Type 1



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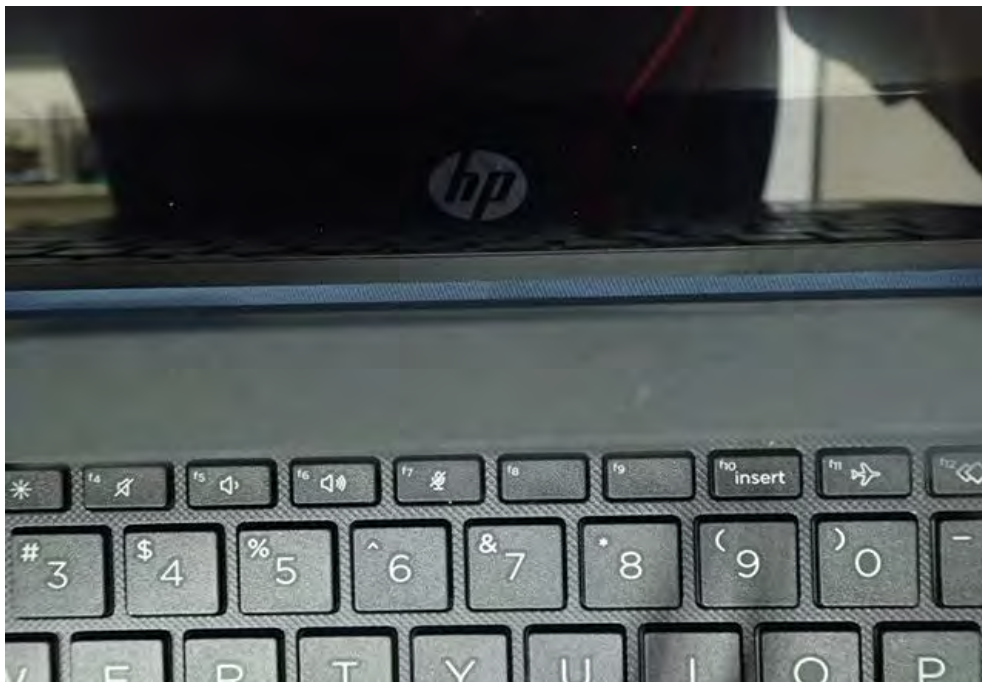
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**Model No.: HSN-I57C**

## Type 2

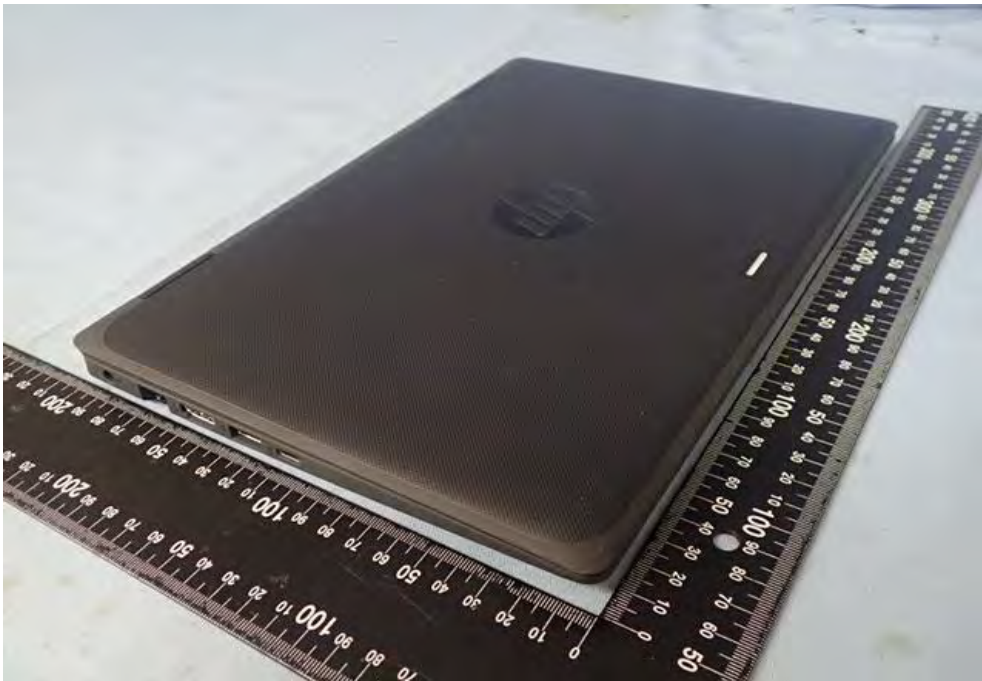


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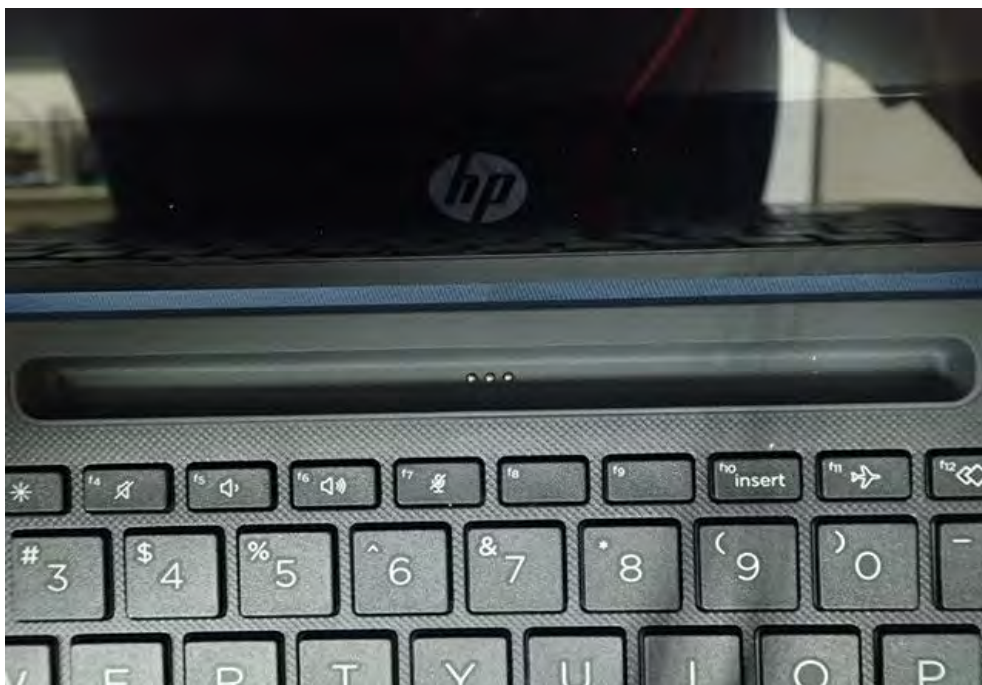
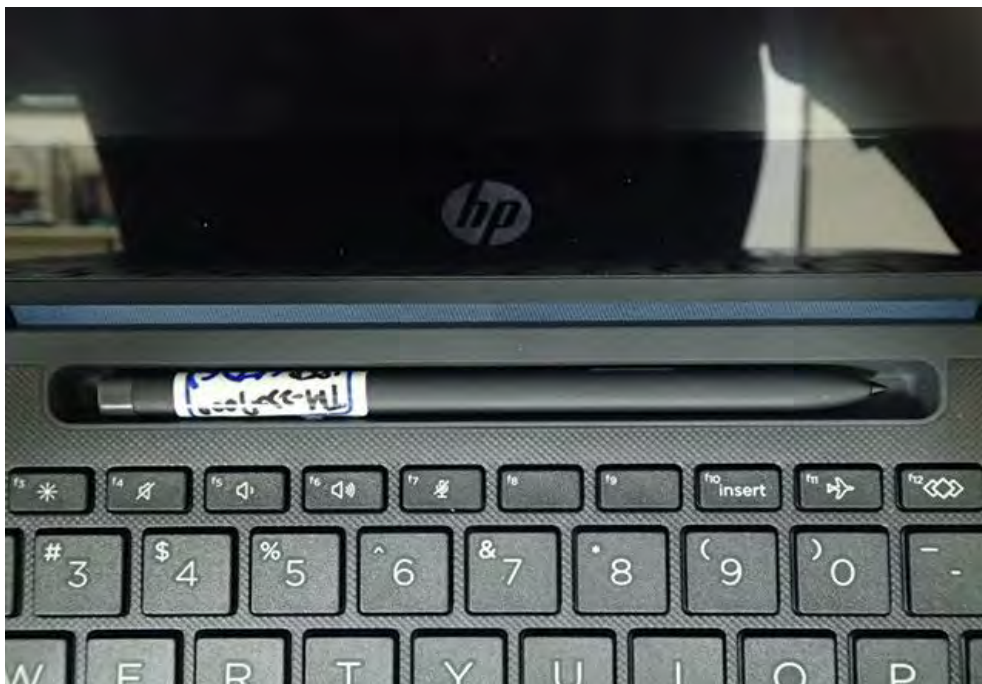
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## Adapter Model No.: TPN-AA05



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## Adapter Model No.: TPN-AA07



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## Adapter Model No.: TPN-CA14



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### Adapter Model No.: TPN-CA15



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## Adapter Model No.: TPN-CA17



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## Adapter Model No.: TPN-CA20



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Adapter Model No.: TPN-DA15



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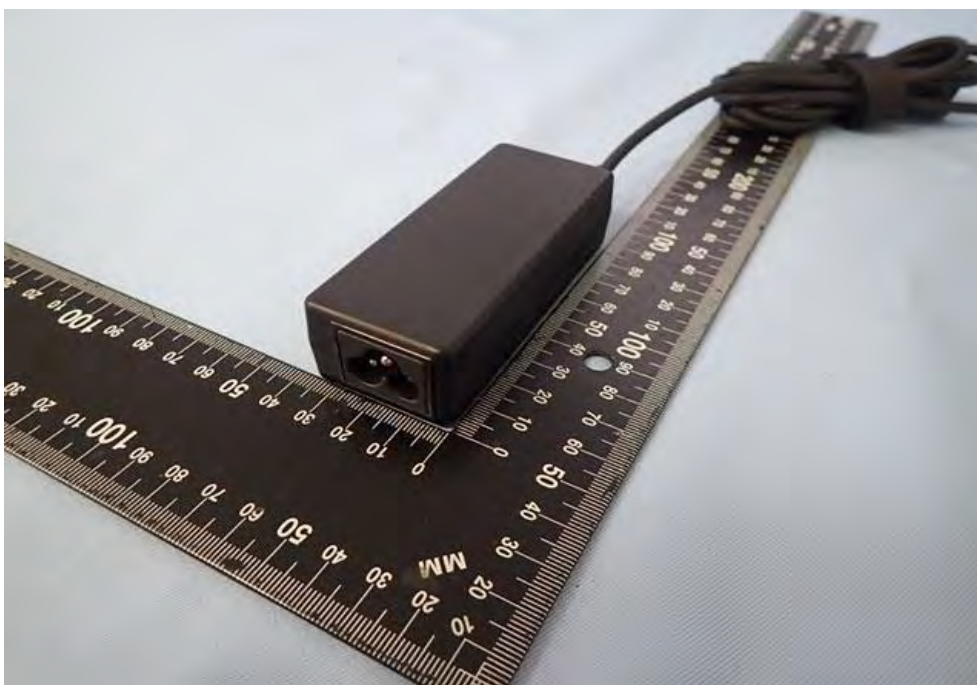
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## Adapter Model No.: TPN-DA16



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## Adapter Model No.: TPN-DA22



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Adapter Model No.: TPN-LA15



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## Adapter Model No.: TPN-LA17



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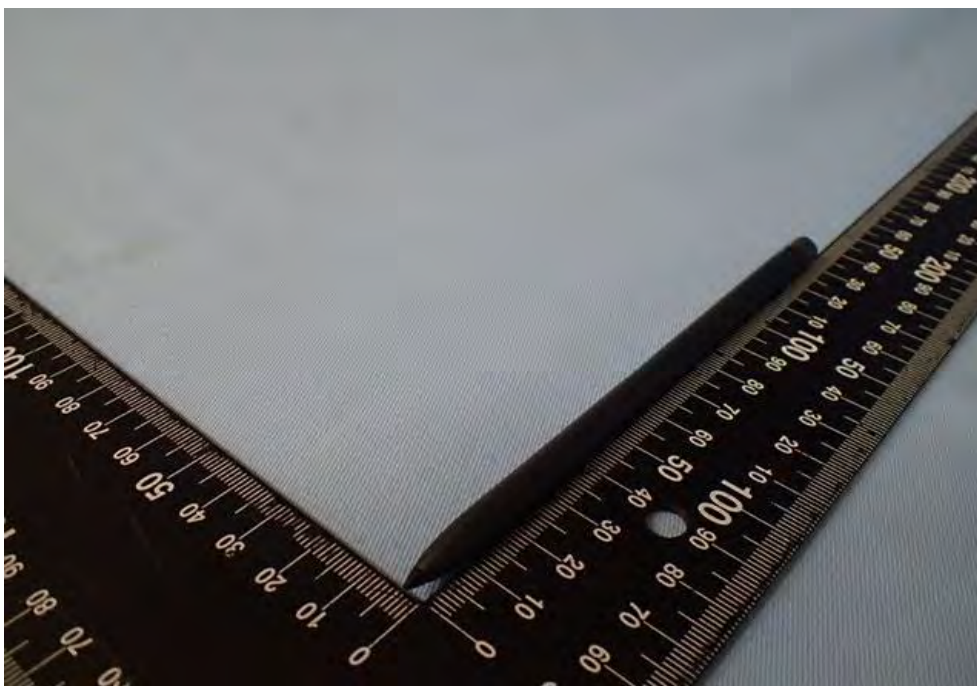
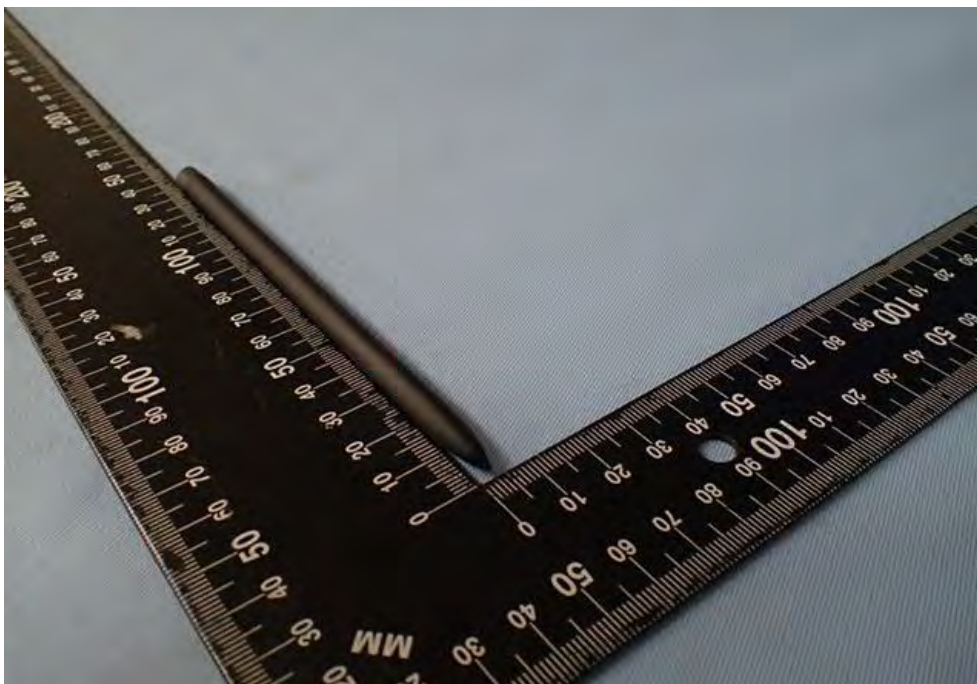
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## Slim Rechargeable Pen Model No.: HSN-W003P



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