

Page: 1 of 90

FCC SDoC REPORT Canada ISED ICES-003 TEST REPORT

Test Report No. : T200106L04-F

Applicant : INVENTEC CORPORATION

Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan,

R.O.C.

: INVENTEC CORPORATION **Manufacturer**

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-I38C**

Added Model(s) : N/A

: FCC Part 15, Subpart B, Class B Standards

Canada ICES-003 Issue 6(June 2016), Class B

Date:

Date of Sample Receipt : Jan. 10, 2020

Date of Test : Jan. 10 ~ 16, 2020

Date of Issue : Feb. 7, 2020

Test Result: **PASS**

In the configuration tested, the EUT complied with the standards specified above.

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:

Hex Chiang Hex Chiang (Asst. Section Manager)

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Feb. 7, 2020

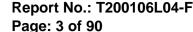


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Revision History					
Revision	Description	Issue Date	Remark		
00	Original	Feb. 7, 2020	T200106L04-F		
			66		



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1. General Information

Applicant & Manufacturer Information

: INVENTEC CORPORATION **Applicant**

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

· INVENTEC CORPORATION Manufacturer

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

General Description of EUT

Product Name : Notebook Computer

Brand Name : HP

Model No. : HSN-I38C

Added Model(s): N/A Model Difference: N/A

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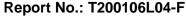
Details of EUT

Power Supply	AC100~240V				
Highest operate description	1.8GHz				
Power Adapter	Chicony (hp)	TPN-CA10			
		TPN-CA14			
		TPN-CA15			
		TPN-CA16			
		TPN-CA17			
		TPN-CA21			
	Acbel (hp)	TPN-AA05			
		TPN-AA06			
	Lite-on (hp)	TPN-LA12			
		TPN-LA15			
		TPN-LA16			
		TPN-LA17			
	Delta (hp)	TPN-DA16			
		TPN-DA17			
		TPN-DA20			
	Artesyn (hp)	TPN-TA02			
	Honor (hp)	TPN-HA01			
Adapter Power Rating	For TPN-AA06; TPN-CA16; TPN-CA17; TPN-DA17; TPN-LA17 I/P: 100-240Vac, 50-60Hz, 1.7A O/P: 19.5Vdc, 3.33A				
	For TPN-DA20; TPN-CA21 I/P: 100-240Vac, 50-60Hz, 1.7A O/P: 5Vdc, 3A, 9Vdc, 3A; 12Vdc, 5A; 15Vdc, 4.33A; 20Vdc, 3.25A				
	For TPN-CA10; TPN-LA12; TPN-TA02 I/P: 100-240Vac, 50-60Hz, 1.6A O/P: 5Vdc, 3A, 9Vdc, 3A; 12Vdc, 5A; 15Vdc, 4.33A; 20Vdc, 3.25A				
	For TPN-AA05 ; TPN-CA14 I/P: 100-240Vac, 50-60Hz, 1.4A O/P: 19.5Vdc, 2.31A				
	For TPN-LA15 I/P: 100-240Vac, 50-60Hz, 1.1A O/P: 19.5Vdc, 2.31A				
	For TPN-CA15; TPN-DA16 I/P: 100-240Vac, 50-60Hz, 1.4A O/P: 19.5Vdc, 2.31A				

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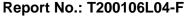


Adapter Power Rating	For TPN-HA01 I/P: 100-240Vac, 50-60Hz, 1.6A O/P: 5Vdc, 3A, 9Vdc, 3A; 12Vdc, 5A; 15Vdc, 4.33A; 20Vdc, 3.25A					
AC Power Cord Type	Shielded, 1.8m	(Detachable) to Power Adapter				
DC Power Cable Type	Unshielded, 1.8	8m (Non-Detachable) to Power Adapter				
Memory	DDR 4 3200MF	Hz (4GB/8GB/16GB)				
	DDR 4 2666MF	Hz (4GB/8GB/16GB/32GB)				
MAIN BOARD	Inventec	6050A3142001				
CPU (1528PIN)	Intel	i5-10210U 1.6GHz				
		i5-10310U 1.7GHz				
		i7-10510U 1.8GHz				
		i7-10610U 1.8GHz				
		i7-10710U 1.1GHz				
		i7-10810U 1.1GHz				
13.3" LCD Panel	AUO	B133HAN06.7				
		B133HAN05.H				
	BOE	NV133FHM-N4T				
	INX	N133HCA-E5A				
		N133HCG-GE3				
	IVO	M133NVFD				
		X133NVFF				
	LGD	LP133WF9				
Touch Screen	GIS	9AN13317-011				
		9AN13317-021				
		9AN13317-001				
	TPK	T08ALC13318HA				
		T08ALC13317HB				
		T08ALC13317HA				
SSD	Samsung	MZNLH128HBHQ-000H1 (128GB)				
		MZVLB256HBHQ-000H1 (256GB)				
		MZNLH256HAJD-000H7 (256GB)				
		MZVLQ256HAJD-000H1 (256GB)				
		MZVLB512HBJQ-000H1 (512GB)				

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SSD	Samsung	MZVLQ512HALU-000H1 (512GB)		
		MZVLB512HBJQ-000H7 (512GB)		
		MZVLB1T0HBLR-000H1 (1TB)		
		MZVLB2T0HALB-000H1 (2TB)		
	SanDisk	SD9SN8W-128G-1006 (128GB)		
	Kioxia	KXG60ZNV256G (256GB)		
		KBG40ZNV256G (256GB)		
		KXG60ZNV512G (512GB)		
		KBG40ZNV512G (512GB)		
		KXG6AZNV512G (512GB)		
		KXG60ZNV1T02 (1TB)		
		KXG60PNV2T04 (2TB)		
	Intel	HBRPEKNX0101AH (256GB)		
		HBRPEKNX0202AH (512GB)		
	Micron	MTFDDAV256TDL-1AW15ABHA (256GB)		
		MTFDHBA256TCK-1AS1AABHA (256GB)		
	Western Digital	SDBPNTY-256G-1006 (256GB)		
		SDATN8Y-256G-1006 (256GB)		
		SDAPNUW-256G-1006 (256GB)		
		SDBPNTY-512G-1006 (512GB)		
		SDBQNTY-512G-1006 (512GB)		
		SDAPNUW-512G-1006 (512GB)		
		SDBPNTY-1T00-1006 (1TB)		
	Toshiba	KXG60ZNV256G (256GB)		
		KXG60ZNV512G (512GB)		
		KXG6AZNV512G (512GB)		
		KXG60ZNV1T02 (1TB)		
	Hynix	HFS256GD9TNG-L2A0A (256GB)		
		HFM256GDJTNI-82A0A (256GB) HFS512GD9TNG-L2A0A (512GB)		
		HFM512GDJTNI-82A0A (512GB)		

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eMMC	Hynix	H26M62002JPR (32GB)		
	Kingston	EMMC32G-TB29 (32GB)		
	SanDisk	SDINBDA4-32G-V (32GB)		
Battery Pack	Simplo (hp)	HSTNN-IB9G		
	LGChem (hp)	HSTNN-LB8R		
Wireless LAN+Bluetooth Combo	Intel	AX201NGW		
NFC	WNC	XRAV-1		
WWAN	Fibocom	L850-GL		
		L860-GL		
CCD	Chicony	CNFJH4521004330LH		
		CKFJH2321004330LH		
	Luxvisions	9BF112N3		
		9SF120N3		
		9SF121N3		
	TFC	YHKM		
		YHSC		
		YHSD		
Fingerprint	Synaptics	FM3483-112		

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	Pr	re-test Mode															
1	Mode							Battery	WLAN+BT		WWAN	Fingerprint	11		Main Board	Docking	Adapter (Suppor Unit)
Part	1	10210U 1.6GHz	DDR4 2666MHz		AUO B133HAN06.7	MZNLH128HBHQ-000H1 (128GB)	H26M62002JPR (32GB)	Simplo (hp) HSTNN-IB9G				Synaptics FM3483-112	Chicony CNFJH4521004330LH	Chicony (hp) TPN-CA10		N/A	N/A
P Part	2	i5-10310U 1.7GHz	DDR4 2666MHz			MZVLB256HBHQ-000H1 (256GB)	EMMC32G-TB29 (32GB)									N/A	N/A
Part	3	i7-10510U	DDR4			MZNLH256HAJD-000H7	SDINBDA4-32G-V	LGChem (hp) HSTNN-LB8R								N/A	N/A
Part	4	i7-10610U	4GB + 32GB DDR4			Samsung MZVLQ256HAJD-000H1	EMMC32G-TB29	LGChem (hp) HSTNN-LB8R				Synaptics FM3483-112		Chicony (hp) TPN-CA16		N/A	N/A
Part	5	Intel i7-10710U	8GB + 8GB DDR4			Samsung MZVLB512HBJQ-000H1	Kingston EMMC32G-TB29									N/A	N/A
Part	6	Intel i7-10810U	8GB + 16GB DDR4			Samsung MZVLQ512HALU-000H1	Kingston EMMC32G-TB29									N/A	N/A
Part Control	7	Intel i7-10810U	8GB + 32GB DDR4			Samsung MZVLB512HBJQ-000H7	Kingston EMMC32G-TB29									N/A	N/A
Part	8	Intel i7-10810U	16GB + 16GB DDR4			Samsung MZVLB1T0HBLR-000H1	Kingston EMMC32G-TB29							Acbel (hp) TPN-AA06		N/A	N/A
Part	9	Intel i7-10810U	16GB + 32GB DDR4			Samsung MZVLB2T0HALB-000H1	Kingston EMMC32G-TB29									N/A	N/A
1.	10	Intel i7-10810U	32GB + 32GB DDR4			SanDisk SD9SN8W-128G-1006	Kingston EMMC32G-TB29									N/A	N/A
The color of the	11	Intel i7-10810U	4GB + 4GB DDR4			Kioxia KXG60ZNV256G	Kingston EMMC32G-TB29									N/A	N/A
1	12	Intel i7-10810U	4GB + 8GB DDR4			Kioxia KBG40ZNV256G	Kingston EMMC32G-TB29									N/A	N/A
1	13	Intel i7-10810U	4GB + 16GB DDR4	GIS 9AN13317-001		Kioxia KXG60ZNV512G	Kingston EMMC32G-TB29	LGChem (hp) HSTNN-LB8R	Intel AX201NGW							N/A	N/A
1	14	Intel i7-10810U	8GB + 8GB DDR4			Kioxia KXG60ZNV512G	Kingston EMMC32G-TB29									N/A	N/A
But 100	15	Intel i7-10810U	8GB + 16GB DDR4	GIS 9AN13317-001	INX	Kioxia KXG6AZNV512G	Kingston EMMC32G-TB29	LGChem (hp)	Intel	WNC	Fibocom	Synaptics	Luxvisions	Delta (hp)	Inventec	N/A	N/A
1	16	Intel i7-10810U	16GB + 16GB DDR4			Kioxia KXG60ZNV1T02	Kingston EMMC32G-TB29	LGChem (hp) HSTNN-LB8R				Synaptics FM3483-112	Luxvisions 9SF120N3			N/A	N/A
Fig. 10 10 10 10 10 10 10 1	17	Intel i7-10810U	16GB + 16GB DDR4		INX	Kioxia KXG60PNV2T04	Kingston EMMC32G-TB29				Fibocom			Honor (hp)		N/A	N/A
10	18	Intel i7-10810U	16GB + 16GB DDR4	GIS		Intel HBRPEKNX0101AH	Kingston EMMC32G-TB29	LGChem (hp)	Intel	WNC	Fibocom	Synaptics		Chicony (hp)	Inventec	N/A	N/A
20 17-08 100	19	Intel i7-10810U	16GB + 16GB DDR4			Intel HBRPEKNX0202AH	Kingston EMMC32G-TB29	LGChem (hp) HSTNN-LB8R			Fibocom L850-GL	Synaptics FM3483-112		Chicony (hp) TPN-CA14		N/A	N/A
15 17-109 10 10 10 10 10 10 10	20	Intel i7-10810U	16GB + 16GB DDR4			Micron MTFDDAV256TDL- 1AW15ABHA	Kingston EMMC32G-TB29									N/A	N/A
22 71-98104 DDR4	21	i7-10810U 1.1GHz	DDR4 3200MHz			MTFDHBA256TCK- 1AS1AABHA (256GB)	EMMC32G-TB29 (32GB)					Synaptics FM3483-112		Chicony (hp) TPN-CA14		N/A	N/A
23 17-108 11-104-12 3000MHz	22	i7-10810U	DDR4			SDBPNTY-256G-1006	EMMC32G-TB29									N/A	N/A
Finded 1908 + 1908 1908	23	i7-10810U	DDR4		INX N133HCG-GE3	SDATN8Y-256G-1006	EMMC32G-TB29	LGChem (hp) HSTNN-LB8R						Chicony (hp) TPN-CA14		N/A	N/A
25 17-10810U DDR4	24	Intel i7-10810U	16GB + 16GB DDR4			Western Digital SDAPNUW-256G-1006	Kingston EMMC32G-TB29	LGChem (hp) HSTNN-LB8R				Synaptics FM3483-112		Chicony (hp) TPN-CA14		N/A	N/A
Infelt 10GB + 10GB	25	Intel i7-10810U	16GB + 16GB DDR4			Western Digital SDBPNTY-512G-1006	Kingston EMMC32G-TB29									N/A	N/A
Intel 1666 8 + 1668 ODR4 SANTASTIT-001 NISSHCG-GES SEARCHWISTORY 10 SUBPRILLWS-1526-1066 MISSACC-TB29 SANTASTIT-001 SUBPRILLWS-1526-1066 MISSACC-TB29 SANTASTIT-001 SANTASTIT-001 SUBPRILLWS-1526-1066 MISSACC-TB29 SANTASTIT-001 MISSACC-GES MISSACC-TB29 SANTASTIT-001 MISSACC-GES MISSACC-G	26	Intel i7-10810U	16GB + 16GB DDR4			Western Digital SDBQNTY-512G-1006	Kingston EMMC32G-TB29	LGChem (hp) HSTNN-LB8R			Fibocom L850-GL		Luxvisions 9SF120N3	Chicony (hp) TPN-CA14		N/A	N/A
Intel 1668 + 1668 ODRA Synaptics Luxvisions Synaptics Lux	27	Intel i7-10810U	16GB + 16GB DDR4			Western Digital SDAPNUW-512G-1006	Kingston EMMC32G-TB29	LGChem (hp) HSTNN-LB8R								N/A	N/A
Intel 1068 + 1668 1000	28	Intel i7-10810U	16GB + 16GB DDR4			Western Digital SDBPNTY-1T00-1006	Kingston EMMC32G-TB29									N/A	N/A
Intel 1668 + 1668 ODR4 23/200MHz 24/2013/1-201 N133HCG-GS KGG6ZNV512G EMC32G-TB2 EChem (hp) Intel 23/200MHz 24/2013/1-201 N133HCG-GS KGG6ZNV512G EMC32G-TB2 EChem (hp) Intel 23/200MHz 1-16-Hz 23/200MHz 1-16-Hz 23/200MHz 24/2013/1-201 N133HCG-GS KGG6ZNV512G EMC32G-TB2 EChem (hp) Intel 23/2013/1-201 N133HCG-GS KGG6ZNV512G EMC32G-TB2 EChem (hp) Intel 23/2013/1-201 N133HCG-GS KGG6ZNV512G EMC32G-TB2 EChem (hp) Intel EChem (hp) Inte	29	Intel i7-10810U	16GB + 16GB DDR4			Toshiba KXG60ZNV256G	Kingston EMMC32G-TB29									N/A	N/A
Initial 1668 + 1668 GIS INX Toshiba MIX Toshiba	30	Intel i7-10810U	16GB + 16GB DDR4			Toshiba KXG60ZNV512G	Kingston EMMC32G-TB29	LGChem (hp) HSTNN-LB8R					Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
Intel 1668 + 1668 ODR4 2300MHz 1.16Hz 3200MHz	31	Intel i7-10810U	16GB + 16GB DDR4			Toshiba KXG6AZNV512G	Kingston EMMC32G-TB29							Chicony (hp) TPN-CA14		N/A	N/A
Intel 1668 + 1668 ODR4	32	Intel i7-10810U	16GB + 16GB DDR4			Toshiba KXG60ZNV1T02	Kingston EMMC32G-TB29	LGChem (hp) HSTNN-LB8R				Synaptics FM3483-112		Chicony (hp) TPN-CA14		N/A	N/A
Intel 1668 + 1668 ODR4 Synaptics Luxvisions Synaptics Lux	33	Intel i7-10810U	16GB + 16GB DDR4	GIS 9AN13317-001	INX N133HCG-GE3	Hynix HFS256GD9TNG-L2A0A	Kingston EMMC32G-TB29	LGChem (hp) HSTNN-LB8R						Chicony (hp) TPN-CA14		N/A	N/A
Intel 16G8 + 16GB GIS INX Fiborom Synaptics Luxvisions	34	Intel i7-10810U	16GB + 16GB DDR4			Hynix HFM256GDJTNI-82A0A	Kingston EMMC32G-TB29	LGChem (hp) HSTNN-LB8R						Chicony (hp) TPN-CA14		N/A	N/A
Intel 1668 + 1668 OLS DDR4 Synaptics Luxvisions Synaptics Luxvisions Chicony (hp) Inventec N/A N/A	35	Intel i7-10810U	16GB + 16GB DDR4	GIS 9AN13317-001		Hynix HFS512GD9TNG-L2A0A	Kingston EMMC32G-TB29									N/A	N/A
Intel 1668 + 1668 GIS INX Kioxia Kingston LigChem (tip) Intel S20MIN2 AN13317-001 N133HGG-GE3 KKG60PNV2T04 KS70STD KS7	36	Intel i7-10810U	16GB + 16GB DDR4			Hynix HFM512GDJTNI-82A0A	Kingston EMMC32G-TB29	LGChem (hp) HSTNN-LB8R				Synaptics FM3483-112				N/A	N/A
Intel 1668 1668 GIS NX Kindsin LiChem (hp.) Intel WNO Faccon Syngists Luxisions Chicory (hp.) Intel 1668 1668 GIS NX Kindsin LiChem (hp.) Intel WNO Faccon Syngists Luxisions Chicory (hp.) Intel 1660 CHICAGO NA NATION NATION NATION CONTROL OF CHICAGO NA	37	Intel i7-10810U	16GB + 16GB DDR4			Kioxia KXG60PNV2T04	Kingston EMMC32G-TB29									N/A	N/A
	38	Intel	16GB + 16GB			Kioxia	Kingston										

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1.4 The worst case of the EUT

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

Worst Case	J
CE	Mode 37, 38 (1920 x 1080 Resolution)
RE	Mode 37, 38 (1920 x 1080 Resolution)

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1.5 Description of Support Units

Mode 37:

Mode or.			
PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
SC Card	N/A	N/A	N/A
SIM Card	VIBO	NA	NA
Earphone	Lenovo	GS-4021M	N/A
HDD	WD	My Passport	WXB1AA4EEJ9P
HDD	WD	My Passport	WXD1E849K9YF
Wireless AP (Remote)	D-Link	DIR-868L	R3X81D7000137
Universal Radio Communication (Remote)	R&S	CMW 500	N/A
GPS simulator (Remote)	IFR	GPS-101	N/A
Mouse	Lenovo	MO28UOL	4403475
LCD Monitor	ASUS	MX27U	N/A

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Mode 38:

wode 36.			
PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	DELL	P2418HT	CN-08P1KT-WS200-8AJ-1DTL-A08
SC Card	N/A	N/A	N/A
Earphone	Lenovo	GS-4021M	N/A
Earphone	Lenovo	GS-4021M	N/A
Mouse	Lenovo	MO28UOL	4403475
HDD	WD	My Passport	WX21E54FA361
HDD	WD	My Passport	WX31A94JJZZX
HDD	WD	My Passport	WXE1E84CVPPA
HDD	WD	My Passport	WXA1AA4DRYDJ
HDD	WD	My Passport	WXB1AA4EEJ9P
HDD	WD	My Passport	WXD1E849K9YF
HDD	WD	My Passport	WX21E54RD766
HDD	WD	My Passport	WX91A744F4NL
Wireless AP (Remote)	D-Link	DIR-868L	R3X81D7000137
Notebook PC (Remote)	HP	Pavilion dv6	CNF9491GLJ
Universal Radio Communication (Remote)	R&S	CMW 500	N/A
GPS simulator (Remote)	IFR	GPS-101	N/A
SIM Card	VIBO	NA	NA
Dock	HP	HSN-IX01	NA

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Support Equipment Used in Tested Cable

Mode 37:

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

Mode 38:

Wode 56.						
Cable Type	Core	Length	Shielding/Non-shielding			
HDMI Cable (1)	N/A	1.8m	Shielding			
DisPlay Cable (2)	N/A	1.8m	Shielding			
DC Power Cable (3)	N/A	1.8m	Non-Shielding			
Earphone Cable *2 (4)	N/A	1m	Non-Shielding			
Type C Cable *4 (5)	N/A	0.6m	Shielding			
USB Mouse Cable (6)	N/A	1.8m	Shielding			
USB HDD Cable *4 (7)	N/A	0.6m	Shielding			
LAN Cable (8)	N/A	10m	Non-Shielding			
Dock Cable (9)	N/A	0.6m	Shielding			

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1.6 Operation Procedure

Mode 37:

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

Mode 38:

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

1.7 Modification List

No modification was made by Compliance Certification Services Inc..

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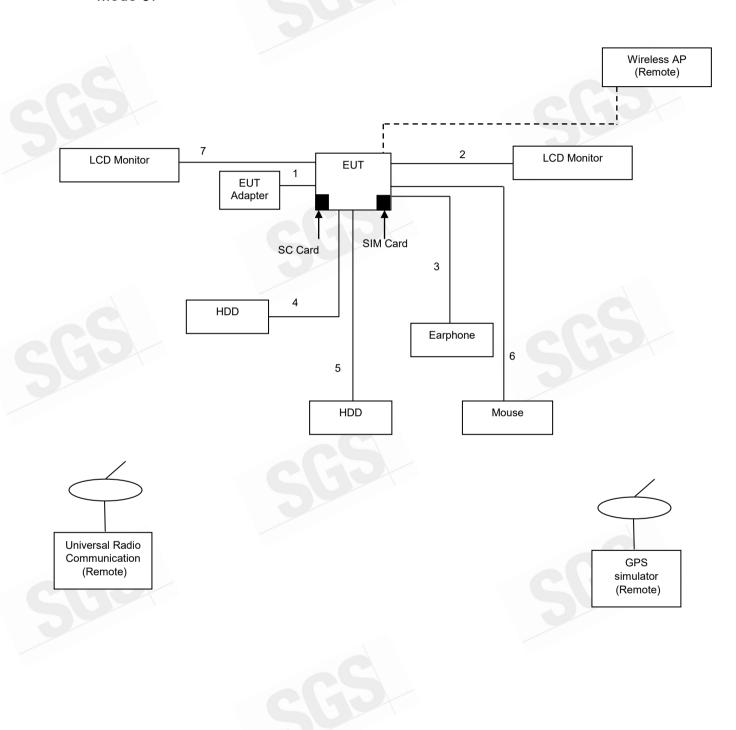
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Test Set-Up Configuration

Mode 37



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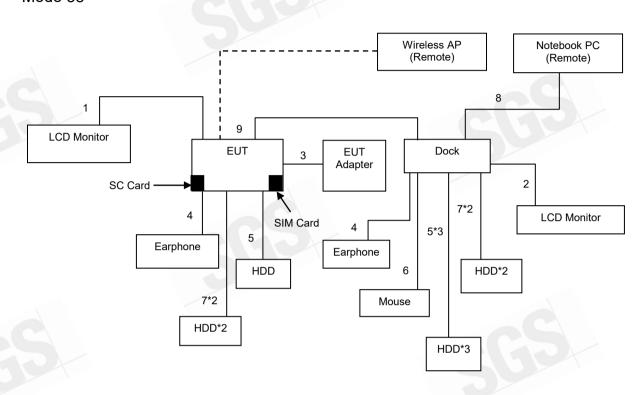
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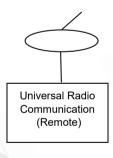
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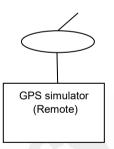


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Mode 38







Accessories Cable List

See clause 1.3 of this report

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1.10 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 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 frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.11 Standards Applicable for Testing

Tests to be carried out under FCC Part 15. Subpart B/CISPR 22

Test Standards	Status
FCC Part 15, Subpart B/CISPR 22	Applicable
Deviation from Standard	No deviation

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1.12 Decision Rules of Results

Reported measurement data comply with ANSI C63.4:2014.

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

1.13 Summary of Results

Standard	Test Type	Result
FCC Part 15 Subpart B, Class B	Conducted Emission	PASS
Canada ICES-003 Issue 6 (June 2016), Class B	Radiated Emission	PASS

1.14 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

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 **Frequency Range**

FCC Part 15, Subpart B:

Conducted Emission : 150 kHz - 30 MHz Radiated Emission : See below table

Highest frequency generated or Upper frequency of measurement used in the device or on which the range (MHz)

device operates or tunes (MHz)

Below 1.705 30 1.705 - 1081000 108 - 500 2000 500 - 1000 5000

Above 1000 5th harmonic of the highest frequency or 40 GHz, whichever is lower



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2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15, Subpart B/CISPR 22:

1 00 Full 10, output Biolof R 22.									
FREQUENCY	Class A	(dBuV)	Class B	(dBuV)					
(MHz)	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.

2.3.2 Limits of Radiated Emissions

FCC Part 15, Subpart B Limit:

Detector Function : Quasi – Peak

FREQUENCY	Class A (at 10m)	Class B (at 3m)
(MHz)	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

Detector Function : Peak , Average

FREQUENCY	Class A (dBı	uV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
(MHz)	Peak	Average	Peak	Average	
Above 1000-18000	79.3	59.3	73.9	53.9	

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CISPR 22 Limit:

Detector Function: Quasi - Peak

FREQUENCY	Class A (at 10m)	Class B (at 10m)	
(MHz)	dBuV/m	dBuV/m	
30-230	40	30	
230-1000	47	37	

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

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

FREQUENCY	Class A (dB	suV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
(GHz)	Average	Peak	Average	Peak	
1~3	56	76	50	70	
3~6	60	80	54	74	

NOTE The lower limit applies at the transition frequency.

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2.4. Test of Conducted Emission

2.4.1 Test Equipments

10M Conduction									
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due				
Coaxial Cable	EMCI	EMCRG142	190809	09/20/2019	09/19/2020				
EMI Test Receiver	R&S	ESCI	101073	07/18/2019	07/17/2020				
LISN	R&S	ENV216	101054	05/02/2019	05/01/2020				
LISN	Schwarzbeck	NSLK8128	5012	04/18/2019	04/17/2020				
Software CCS-3A1-CE									

Compliance Certification Services Inc. (Wugu Laboratory)

No.139, Wugong Rd., Wugu Dist., New Taipei City 24886, Taiwan (R.O.C.)

Measurement Uncertainty of Conducted Emission

Expanded uncertainty Ulab (K=2) of conducted emission is 3.14 dB

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of AC mains Conducted Emission is 3.44dB

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2.4.2 Operating Environment

Temperature : 24 & 19 degree C Humidity : 50 & 46 %RH

Atmospheric Pressure: 992 mBar

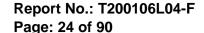
2.4.3 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss + Pulse Limiter Insertion Loss Measurement Level = Reading Level + Factor Over (Margin) = Measurement Level – Limit

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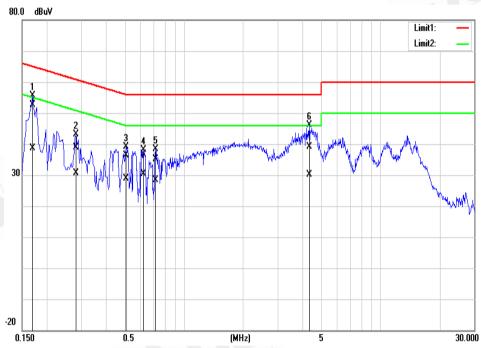
Compliance Certification Services Inc





2.4.4 Measurement Data:

Model no.	HSN-I38C	Line:	L1
Environmental Conditions	24℃, 50% RH	Test Date	2020/1/10
Test Mode	Mode 37	Tested by	Jemmy Wang
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak Iimit	Average limit	Quasi Peak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1*	0.1700	42.79	28.88	9.76	52.55	38.64	64.96	54.96	-12.41	-16.32	Pass
2	0.2819	29.12	20.84	9.76	38.88	30.60	60.76	50.76	-21.88	-20.16	Pass
3	0.5100	26.72	19.00	9.76	36.48	28.76	56.00	46.00	-19.52	-17.24	Pass
4	0.6220	26.81	20.53	9.76	36.57	30.29	56.00	46.00	-19.43	-15.71	Pass
5	0.7180	25.35	18.62	9.78	35.13	28.40	56.00	46.00	-20.87	-17.60	Pass
6	4.3500	29.24	20.23	9.84	39.08	30.07	56.00	46.00	-16.92	-15.93	Pass

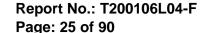
Note: L1 = Line One (Live Line)

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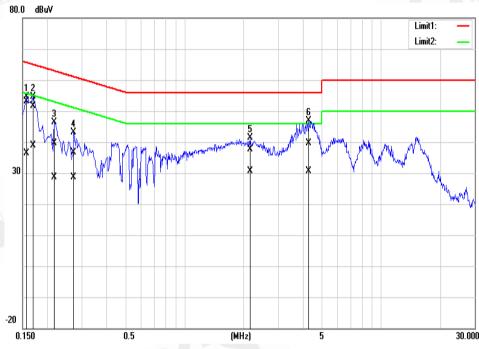
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Model no. HSN-I38C L2 Line: **Environmental** 24°C, 50% RH 2020/1/10 **Test Date Conditions Test Mode** Mode 37 Tested by Jemmy Wang 6dB Bandwidth 9 kHz Identifier number TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak Iimit	Average limit	Quasi Peak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1*	0.1580	43.32	26.53	9.80	53.12	36.33	65.56	55.57	-12.44	-19.24	Pass
2	0.1700	41.96	29.09	9.79	51.75	38.88	64.96	54.96	-13.21	-16.08	Pass
3	0.2180	29.77	18.95	9.79	39.56	28.74	62.89	52.89	-23.33	-24.15	Pass
4	0.2740	26.81	18.79	9.79	36.60	28.58	60.99	51.00	-24.39	-22.42	Pass
5	2.1580	27.73	20.91	9.84	37.57	30.75	56.00	46.00	-18.43	-15.25	Pass
6	4.2980	29.87	20.65	9.88	39.75	30.53	56.00	46.00	-16.25	-15.47	Pass

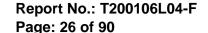
Note: L2 = Line Two (Neutral Line).

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TCOP CE site 17

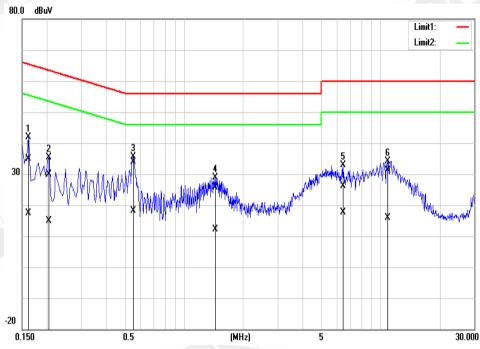


6dB Bandwidth

9 kHz

Model no. HSN-I38C Line: L1 **Environmental** 19°C, 46% RH 2020/1/13 **Test Date Conditions Test Mode** Mode 38 Tested by Jemmy Wang

Identifier number



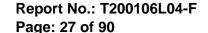
1	NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak Iimit	Average limit	Quasi Peak margin	Average margin	Remark
		(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
	1	0.1620	25.14	7.53	9.76	34.90	17.29	65.36	55.36	-30.46	-38.07	Pass
	2	0.2060	20.22	5.23	9.76	29.98	14.99	63.36	53.37	-33.38	-38.38	Pass
	3*	0.5540	24.09	8.28	9.76	33.85	18.04	56.00	46.00	-22.15	-27.96	Pass
	4	1.4460	15.90	2.38	9.78	25.68	12.16	56.00	46.00	-30.32	-33.84	Pass
	5	6.4699	16.17	7.87	9.88	26.05	17.75	60.00	50.00	-33.95	-32.25	Pass
	6	10.8580	21.24	5.84	9.96	31.20	15.80	60.00	50.00	-28.80	-34.20	Pass

Note: L1 = Line One (Live Line)

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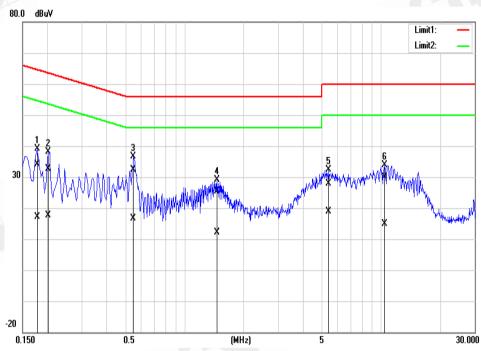
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Model no. HSN-I38C Line: L2 **Environmental** 19°C, 46% RH 2020/1/13 **Test Date Conditions Test Mode** Mode 38 Tested by Jemmy Wang TCOP CE site 17 6dB Bandwidth 9 kHz Identifier number



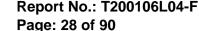
NO	. Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak Iimit	Average limit	Quasi Peak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1	0.1780	24.30	7.30	9.80	34.10	17.10	64.57	54.58	-30.47	-37.48	Pass
2	0.2020	22.73	7.89	9.79	32.52	17.68	63.52	53.53	-31.00	-35.85	Pass
3*	0.5500	22.63	6.80	9.80	32.43	16.60	56.00	46.00	-23.57	-29.40	Pass
4	1.4700	15.52	2.27	9.82	25.34	12.09	56.00	46.00	-30.66	-33.91	Pass
5	5.4220	18.08	8.95	9.91	27.99	18.86	60.00	50.00	-32.01	-31.14	Pass
6	10.4940	19.81	4.81	10.00	29.81	14.81	60.00	50.00	-30.19	-35.19	Pass

Note: L2 = Line Two (Neutral Line).

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

DCIOW 10112											
		Radiated_Below_1GHz 1	0m_EMC								
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due						
Bilog Antenna	TESEQ	CBL 6112D	31674	03/06/2019	03/05/2020						
Bilog Antenna	TESEQ	CBL 6112D	31675	03/22/2019	03/21/2020						
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	330029	04/30/2019	04/29/2020						
Coaxial Cable	Huber+Suhner	104PEA	33948/4PEA	04/30/2019	04/29/2020						
Coaxial Cable	Huber+Suhner	104PEA	33949/4PEA	04/30/2019	04/29/2020						
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	24813	04/30/2019	04/29/2020						
EMI Test Receiver	R&S	ESCI	100961	06/20/2019	06/19/2020						
EMI Test Receiver	R&S	ESCI	100962	06/24/2019	06/23/2020						
Pre-Amplifier	HP	8447D	2944A07754	04/30/2019	04/29/2020						
Pre-Amplifier	HP	8447D	2944A08150	04/30/2019	04/29/2020						
AC POWER SOURE	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 (C	CCS-3A1RE)								

Compliance Certification Services Inc. (Wugu Laboratory)

No.139, Wugong Rd., Wugu Dist., New Taipei City 24886, Taiwan (R.O.C.)

Measurement Uncertainty of Radiated Emission

Expanded uncertainty Ulab (K=2) of radiated emission is 4.23 dB. (30MHz ~ 200MHz)

Expanded uncertainty Ulab (K=2) of radiated emission is 4.13 dB. (200MHz ~ 1000MHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)

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Above 1GHz

ADOVE TOTIZ											
		Radiated_Above _1GHz 10	Dm_EMC								
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due						
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	329383	04/30/2019	04/29/2020						
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	33945	04/30/2019	04/29/2020						
Horn Antenna	ETS LINDGREN	3116	00026370	12/18/2019	12/17/2020						
Horn Antenna	EMCO	3117	00055167	12/12/2019	12/11/2020						
Pre-Amplifier	EMCI	EMC051845	980040	04/30/2019	04/29/2020						
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	06/18/2019	06/17/2020						
Spectrum Analyzer	Agilent	E4446A	MY48250297	08/27/2019	08/26/2020						
AC POWER SOURE	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 (C	CS-3A1RE)								

Compliance Certification Services Inc. (Wugu Laboratory)

No.139, Wugong Rd., Wugu Dist., New Taipei City 24886, Taiwan (R.O.C.)

Measurement Uncertainty of Radiated Emission

Expanded uncertainty Ulab (K=2) of radiated emission is 4.89 dB. (1-6GHz)

Expanded uncertainty Ulab (K=2) of radiated emission is 5.27 dB. (6-18GHz)

Expanded uncertainty Ulab (K=2) of radiated emission is 4.13 dB. (18-26GHz)

Expanded uncertainty Ulab (K=2) of radiated emission is 4.28 dB. (26-40GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is 5.18 dB.(1-6GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is 5.48 dB.(6-18GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is ---- dB.(18-26GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is ---- dB.(26-40GHz)

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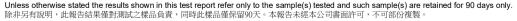
2.5.2 Operating Environment

Temperature: 22 & 26 degree C Humidity: 52 & 60 %RH

Atmospheric Pressure: 996 mBar

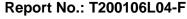
2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss - Amplifier Gain Measurement Level = Reading Level + Correction Factor Over (Margin) = Measurement Level – Limit



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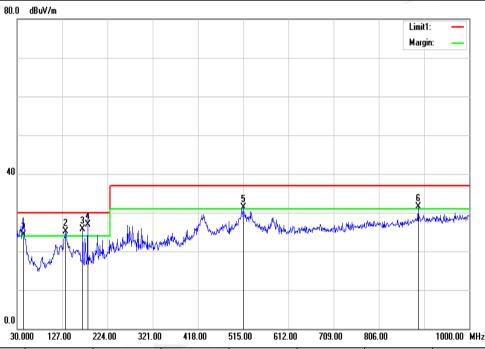


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Measurement Data 2.5.4 **Below 1GHz**

Model no.	HSN-I38C	Test Mode	Mode 37	
Environmental Conditions	22℃, 52% RH	Test Date	2020/1/16	
Antenna Pole	Vertical	Antenna Distance	10m	
Detector Function	Quasi-peak.	Tested by	Rex Kuo	
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17	



N	lo.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
	1	43.6900	33.92	-9.54	24.38	30.00	-5.62	299	121	QP
	2	133.7900	33.32	-8.14	25.18	30.00	-4.82	100	273	QP
	3	170.6500	35.23	-9.50	25.73	30.00	-4.27	199	144	QP
	4	181.3200	36.74	-9.76	26.98	30.00	-3.02	100	166	QP
	5	515.9700	31.68	-0.34	31.34	37.00	-5.66	100	298	QP
(6	890.3900	26.22	5.19	31.41	37.00	-5.59	197	360	QP

REMARKS:

- 1. The other emission levels were very low against the limit.
- 2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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Model no.	HSN-I38C	Test Mode	Mode 37
Environmental Conditions	22℃, 52% RH	Test Date	2020/1/16
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	27.28	-3.58	23.70	30.00	-6.30	299	0	QP
2	199.7500	34.13	-10.49	23.64	30.00	-6.36	399	360	QP
3	224.9700	34.94	-9.54	25.40	30.00	-4.60	400	6	QP
4	296.7500	34.35	-5.68	28.67	37.00	-8.33	400	360	QP
5	579.0200	33.02	-0.76	32.26	37.00	-4.74	127	360	QP
6	890.3900	29.56	3.14	32.70	37.00	-4.30	100	39	QP

REMARKS:

- 1. The other emission levels were very low against the limit.
- 2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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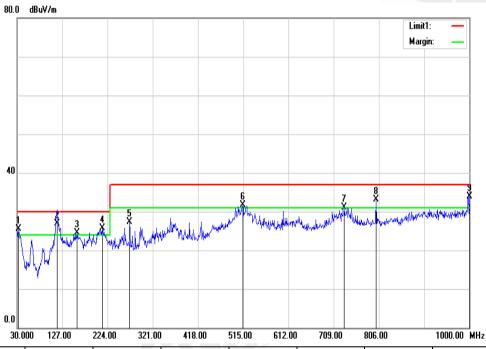
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Model no.	HSN-I38C	Test Mode	Mode 38
Environmental Conditions	22℃, 52% RH	Test Date	2020/1/16
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17



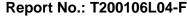
No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	32.9100	29.17	-3.76	25.41	30.00	-4.59	100	360	QP
2	115.3600	34.93	-8.12	26.81	30.00	-3.19	100	220	QP
3	158.0400	33.53	-8.95	24.58	30.00	-5.42	100	102	QP
4	212.3600	34.75	-9.12	25.63	30.00	-4.37	100	360	QP
5	271.5300	31.85	-4.59	27.26	37.00	-9.74	100	360	QP
6	514.0300	32.03	-0.33	31.70	37.00	-5.30	300	154	QP
7	731.3100	28.30	2.80	31.10	37.00	-5.90	400	229	QP
8	800.1800	29.00	4.02	33.02	37.00	-3.98	300	353	QP
9	1000.0000	27.31	6.67	33.98	37.00	-3.02	199	263	QP

REMARKS:

- 1. The other emission levels were very low against the limit.
- 2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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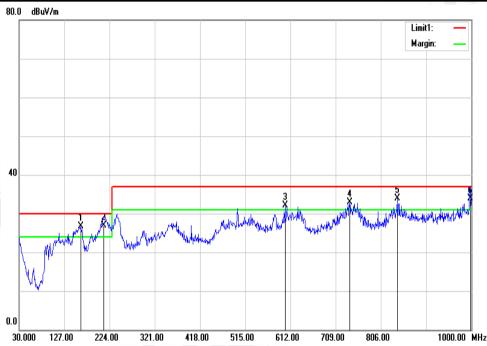
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Model no.	HSN-I38C	Test Mode	Mode 38
Environmental Conditions	22 ℃, 52% RH	Test Date	2020/1/16
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	161.9200	36.90	-10.29	26.61	30.00	-3.39	400	139	QP
2	211.3900	37.14	-10.30	26.84	30.00	-3.16	299	0	QP
3	600.3600	32.81	-0.63	32.18	37.00	-4.82	200	176	QP
4	739.0700	31.83	1.02	32.85	37.00	-4.15	100	276	QP
5	840.9200	31.89	1.94	33.83	37.00	-3.17	100	276	QP
6	998.0600	29.16	4.75	33.91	37.00	-3.09	100	276	QP

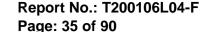
REMARKS:

- 1. The other emission levels were very low against the limit.
- 2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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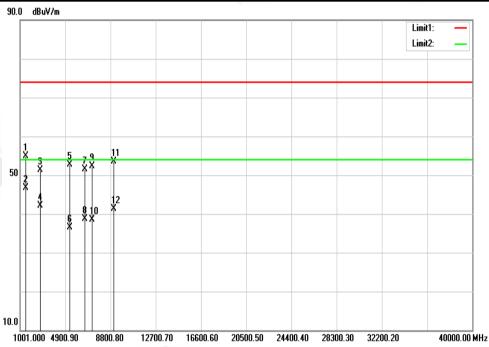
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Above 1GHz

Model no.	HSN-I38C	Test Mode	Mode 37	
Environmental Conditions	22℃, 52% RH	Test Date	2020/1/16	
Antenna Pole	Vertical	Antenna Distance	3m	
Highest frequency generated or used0	1.8GHz	Upper frequency	9GHz	
Detector Function	Peak & Average.	Tested by	Rex Kuo	
6dB Bandwidth	dB Bandwidth 1 MHz		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	1485.472	73.95	-19.06	54.89	74.00	-19.11	143	360	peak
2	1485.472	65.77	-19.06	46.71	54.00	-7.29	143	360	AVG
3	2751.897	64.45	-13.18	51.27	74.00	-22.73	100	258	peak
4	2751.897	55.37	-13.18	42.19	54.00	-11.81	100	258	AVG
5	5310.247	60.05	-7.26	52.79	74.00	-21.21	200	79	peak
6	5310.247	43.68	-7.26	36.42	54.00	-17.58	200	79	AVG

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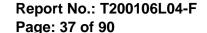
No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
7	6568.172	55.61	-4.12	51.49	74.00	-22.51	166	360	peak
8	6568.172	42.77	-4.12	38.65	54.00	-15.35	166	360	AVG
9	7171.637	55.73	-3.50	52.23	74.00	-21.77	298	0	peak
10	7171.637	41.96	-3.50	38.46	54.00	-15.54	298	0	AVG
11	9058.526	54.70	-1.21	53.49	74.00	-20.51	288	0	peak
12	9058.526	42.50	-1.21	41.29	54.00	-12.71	288	0	AVG

REMARKS:

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

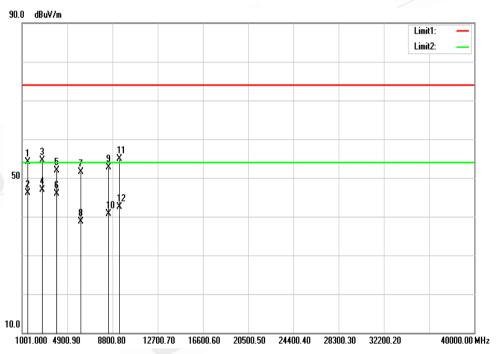
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HSN-I38C Model no. **Test Mode** Mode 37 **Environmental** 22°C, 52% RH 2020/1/16 **Test Date Conditions Antenna Pole** Horizontal **Antenna Distance** 3m **Highest frequency** 1.8GHz 9GHz Upper frequency generated or used **Detector Function** Peak & Average. Tested by Rex Kuo TCOP RF site 17 6dB Bandwidth 1 MHz Identifier number



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1485.472	73.25	-19.06	54.19	74.00	-19.81	104	360	peak
2	1485.472	65.25	-19.06	46.19	54.00	-7.81	104	360	AVG
3	2751.897	67.61	-13.18	54.43	74.00	-19.57	200	174	peak
4	2751.897	60.17	-13.18	46.99	54.00	-7.01	200	174	AVG
5	4001.323	63.05	-11.15	51.90	74.00	-22.10	100	186	peak
6	4001.323	56.97	-11.15	45.82	54.00	-8.18	100	186	AVG

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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	6032.704	56.20	-4.69	51.51	74.00	-22.49	250	0	peak
8	6032.704	43.48	-4.69	38.79	54.00	-15.21	250	0	AVG
9	8472.060	55.51	-2.71	52.80	74.00	-21.20	200	360	peak
10	8472.060	43.42	-2.71	40.71	54.00	-13.29	200	360	AVG
11	9424.004	55.18	-0.31	54.87	74.00	-19.13	200	359	peak
12	9424.004	42.86	-0.31	42.55	54.00	-11.45	200	359	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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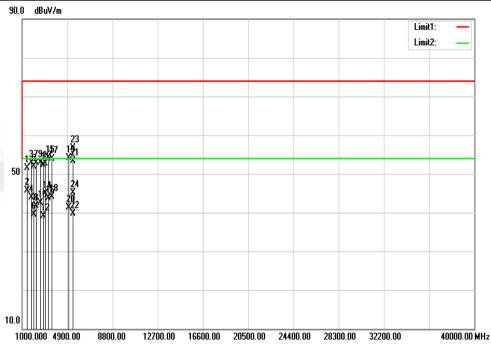
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Model no.	HSN-I38C	Test Mode	Mode 38
Environmental Conditions	22℃, 52% RH	Test Date	2020/1/16
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	1.8GHz	Upper frequency	9GHz
Detector Function	Peak & Average.	Tested by	Rex 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	1400.000	70.25	-18.84	51.41	74.00	-22.59	100	359	peak
2	1400.000	64.50	-18.84	45.66	54.00	-8.34	100	359	AVG
3	1800.000	69.93	-17.02	52.91	74.00	-21.09	400	110	peak
4	1800.000	60.87	-17.02	43.85	54.00	-10.15	400	110	AVG
5	2000.000	66.49	-14.52	51.97	74.00	-22.03	300	85	peak
6	2000.000	54.05	-14.52	39.53	54.00	-14.47	300	85	AVG
7	2200.000	67.25	-14.34	52.91	74.00	-21.09	200	108	peak
8	2200.000	56.13	-14.34	41.79	54.00	-12.21	200	108	AVG

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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
9	2575.000	66.88	-13.88	53.00	74.00	-21.00	300	149	peak
10	2575.000	56.29	-13.88	42.41	54.00	-11.59	300	149	AVG
11	2795.000	65.26	-12.95	52.31	74.00	-21.69	200	97	peak
12	2795.000	52.06	-12.95	39.11	54.00	-14.89	200	97	AVG
13	2962.500	65.42	-12.64	52.78	74.00	-21.22	100	140	peak
14	2962.500	57.55	-12.64	44.91	54.00	-9.09	100	140	AVG
15	3235.000	66.06	-12.04	54.02	74.00	-19.98	300	201	peak
16	3235.000	55.68	-12.04	43.64	54.00	-10.36	300	201	AVG
17	3557.500	65.72	-11.73	53.99	74.00	-20.01	200	157	peak
18	3557.500	55.84	-11.73	44.11	54.00	-9.89	200	157	AVG
19	4987.500	62.65	-8.53	54.12	74.00	-19.88	100	256	peak
20	4987.500	49.82	-8.53	41.29	54.00	-12.71	100	256	AVG
21	5332.500	60.51	-7.27	53.24	74.00	-20.76	200	76	peak
22	5332.500	46.92	-7.27	39.65	54.00	-14.35	200	76	AVG
23	5392.500	64.03	-7.32	56.71	74.00	-17.29	300	300	peak
24	5392.500	52.42	-7.32	45.10	54.00	-8.90	300	300	AVG

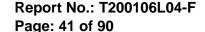
REMARKS:

1. The other emission levels were very low against the limit.

2. Margin (dB) = Result (dBuV/m) - Limit (dBuV/m)

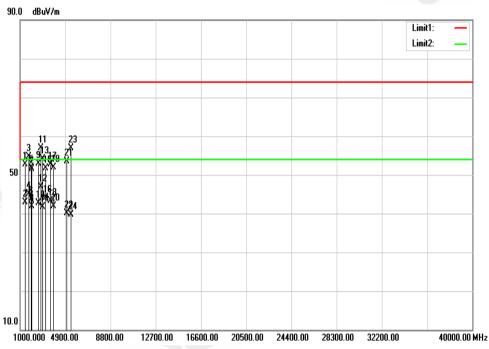
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Model no. HSN-I38C **Test Mode** Mode 38 **Environmental** 22°C, 52% RH 2020/1/16 **Test Date Conditions Antenna Pole** Horizontal Antenna Distance 3m **Highest frequency** 1.8GHz **Upper frequency** 9GHz generated or used **Detector Function** Peak & 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	1400.000	71.50	-18.84	52.66	74.00	-21.34	200	120	peak
2	1400.000	61.75	-18.84	42.91	54.00	-11.09	200	120	AVG
3	1722.500	72.24	-17.45	54.79	74.00	-19.21	300	65	peak
4	1722.500	62.51	-17.45	45.06	54.00	-8.94	300	65	AVG
5	1912.500	67.34	-15.46	51.88	74.00	-22.12	300	299	peak
6	1912.500	59.20	-15.46	43.74	54.00	-10.26	300	299	AVG
7	1997.500	66.03	-14.54	51.49	74.00	-22.51	200	274	peak
8	1997.500	56.37	-14.54	41.83	54.00	-12.17	200	274	AVG

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9	2522.500	66.94	-13.95	52.99	74.00	-21.01	100	151	peak
10	2522.500	56.74	-13.95	42.79	54.00	-11.21	100	151	AVG
11	2757.500	69.99	-13.15	56.84	74.00	-17.16	300	174	peak
12	2757.500	60.12	-13.15	46.97	54.00	-7.03	300	174	AVG
13	2967.500	66.70	-12.62	54.08	74.00	-19.92	200	152	peak
14	2967.500	54.31	-12.62	41.69	54.00	-12.31	200	152	AVG
15	3210.000	63.72	-11.92	51.80	74.00	-22.20	200	139	peak
16	3210.000	55.93	-11.92	44.01	54.00	-9.99	200	139	AVG
17	3612.500	63.83	-11.19	52.64	74.00	-21.36	100	192	peak
18	3612.500	54.43	-11.19	43.24	54.00	-10.76	100	192	AVG
19	3872.500	62.89	-11.01	51.88	74.00	-22.12	200	150	peak
20	3872.500	52.98	-11.01	41.97	54.00	-12.03	200	150	AVG
21	4995.000	61.90	-8.49	53.41	74.00	-20.59	200	164	peak
22	4995.000	48.54	-8.49	40.05	54.00	-13.95	200	164	AVG
23	5380.000	64.19	-7.31	56.88	74.00	-17.12	100	258	peak
24	5380.000	47.02	-7.31	39.71	54.00	-14.29	100	258	AVG

REMARKS:

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

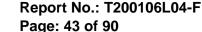
The frequency band during 18GHz till 26.5 GHz that was not reported was verified with no extra obvious finding except ambient signals.

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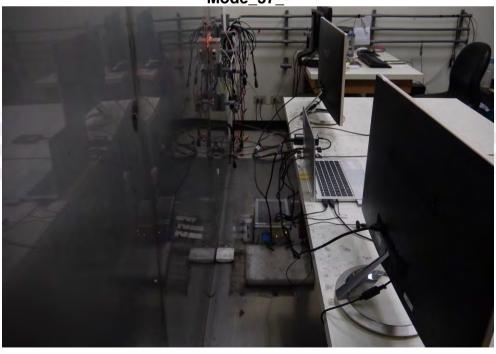
3. Photographs of Test

CE Testing Set-up

Model No.: HSN-I38C Mode 37 +



Mode_37_-



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Model No.: HSN-I38C Mode 38 +



Mode_38_-



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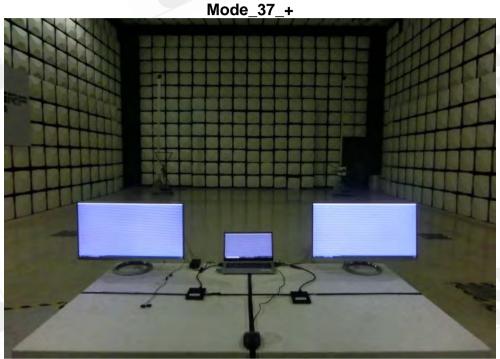


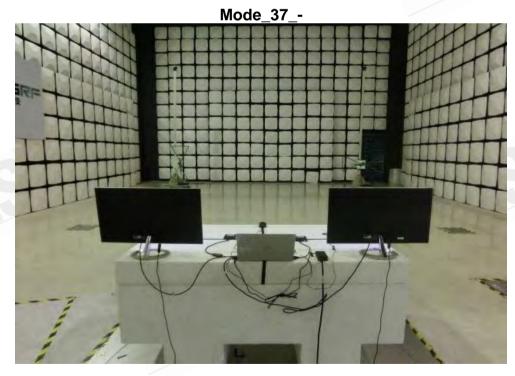
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RE Testing Set-up Below 1GHz

Model No.: HSN-I38C





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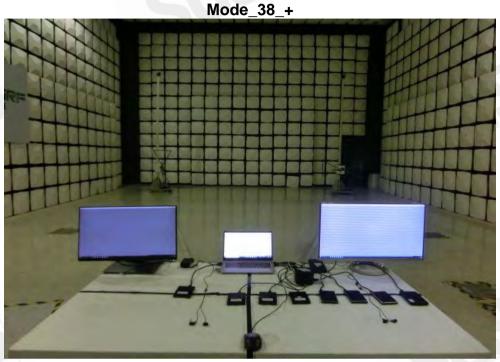
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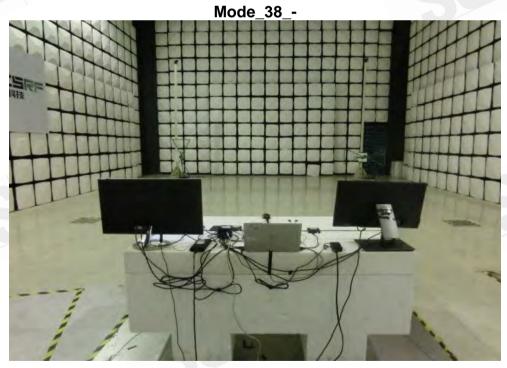


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Model No.: HSN-I38C





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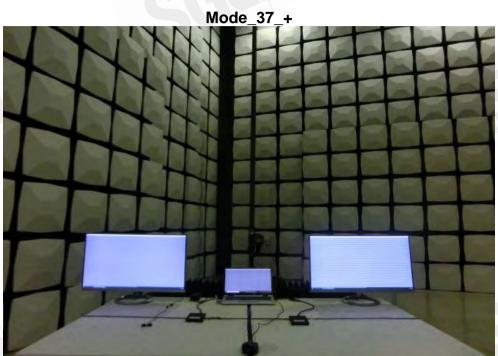


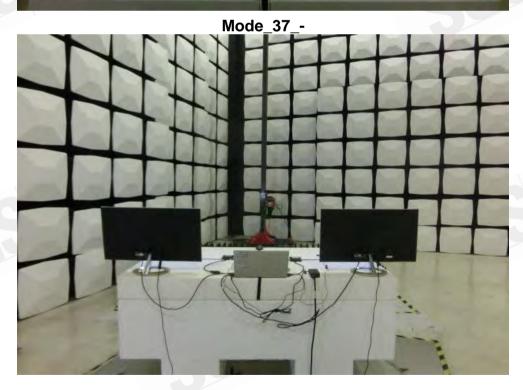
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Above 1GHz

Model No.: HSN-I38C





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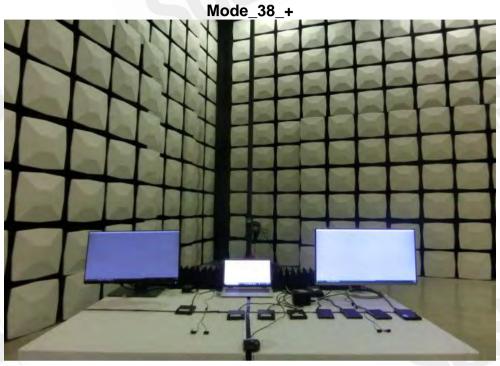
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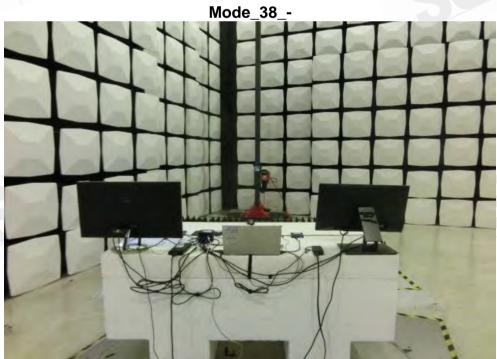


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Model No.: HSN-I38C





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4. Photographs of Product

Exterior

Model No.: HSN-I38C

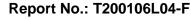




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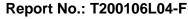




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Adapter Model No.: Chicony (hp) / TPN-CA10





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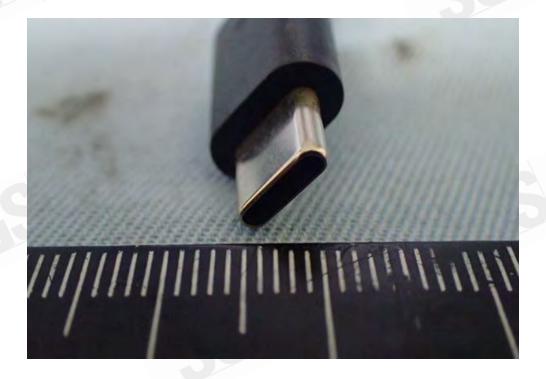
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Adapter Model No.: Chicony (hp) / TPN-CA14



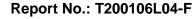


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Adapter Model No.: Chicony (hp) / TPN-CA15

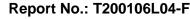




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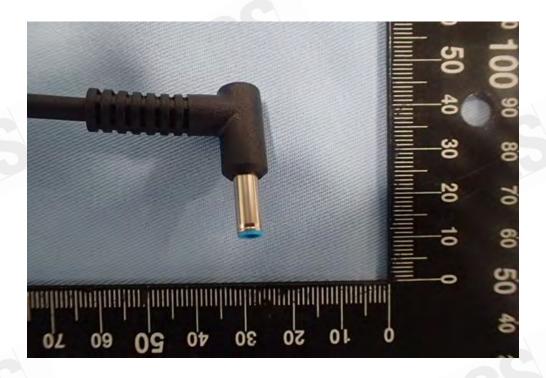
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Adapter Model No.: Chicony (hp) / TPN-CA16

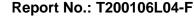




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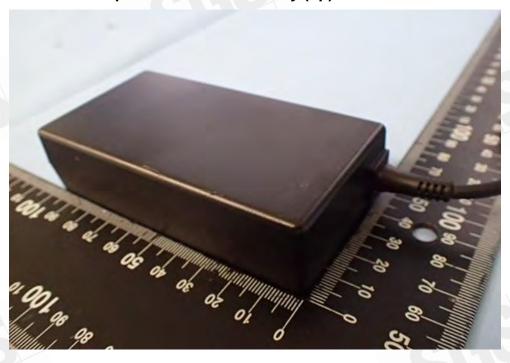
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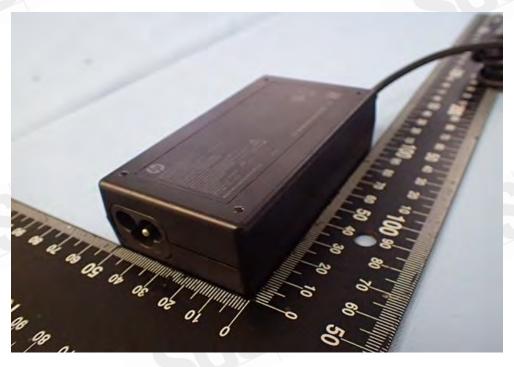
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Adapter Model No.: Chicony (hp) / TPN-CA17





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Adapter Model No.: Chicony (hp) / TPN-CA21





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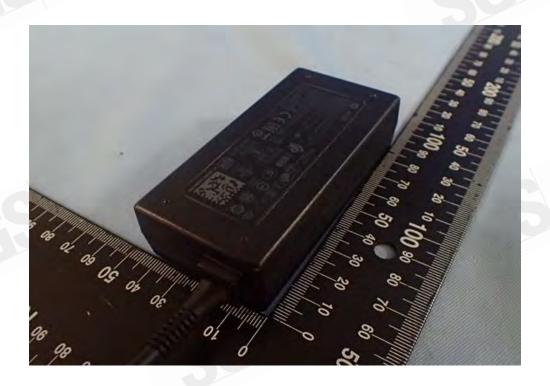
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Adapter Model No.: Acbel (hp) / TPN-AA05





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Adapter Model No.: Acbel (hp) / TPN-AA06





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Adapter Model No.: Lite-on (hp) / TPN-LA12





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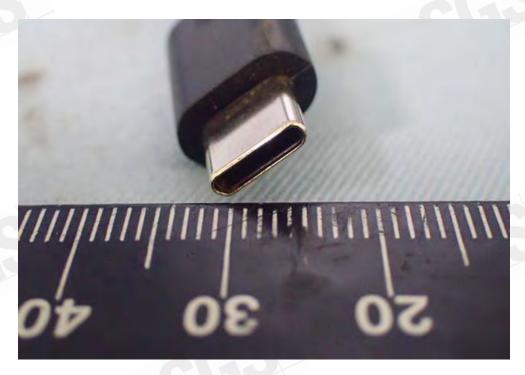
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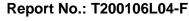


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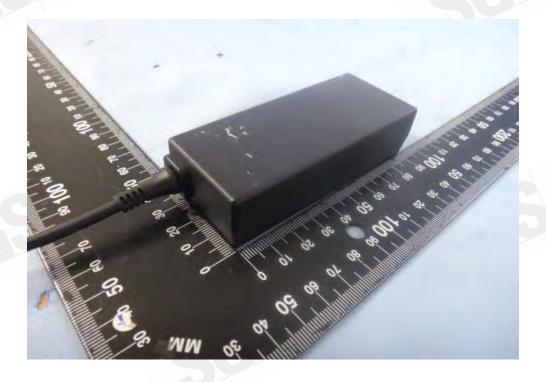


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Adapter Model No.: Lite-on (hp) / TPN-LA15





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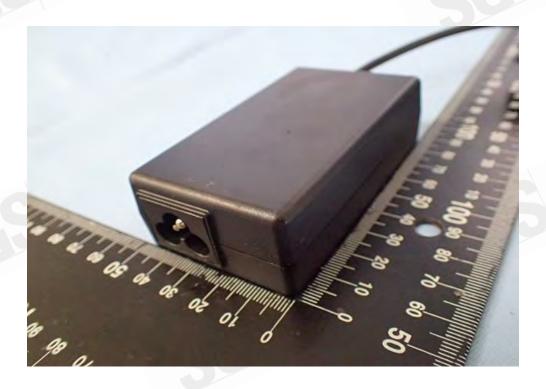
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Adapter Model No.: Lite-on (hp) / TPN-LA16





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Adapter Model No.: Lite-on (hp) / TPN-LA17

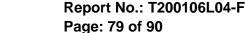




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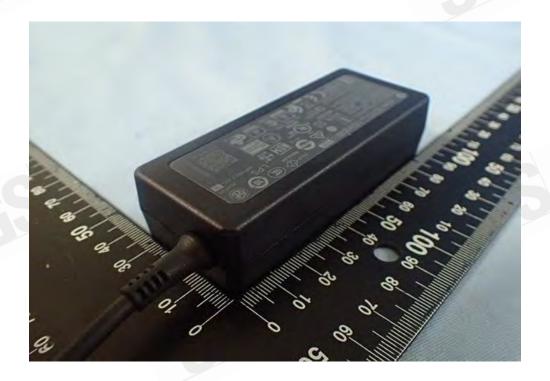
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Adapter Model No.: Delta (hp) / TPN-DA16

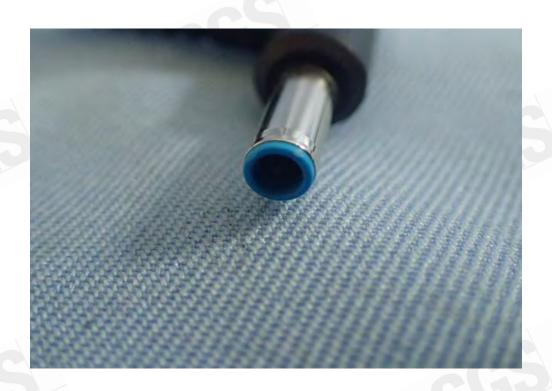




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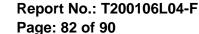




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Adapter Model No.: Delta (hp) / TPN-DA17





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Adapter Model No.: Delta (hp) / TPN-DA20





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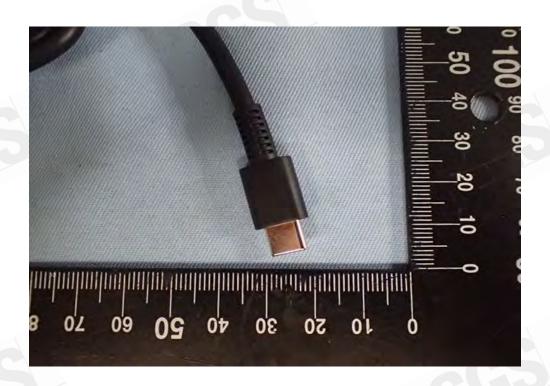
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Adapter Model No.: Artesyn (hp) / TPN-TA02





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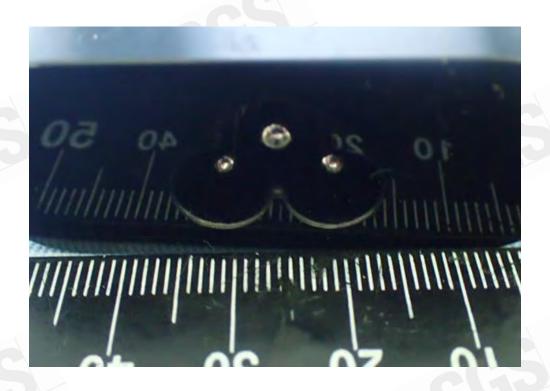
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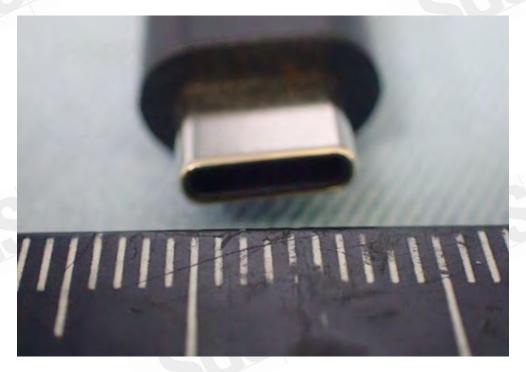
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Adapter Model No.: Honor (hp) / TPN-HA01





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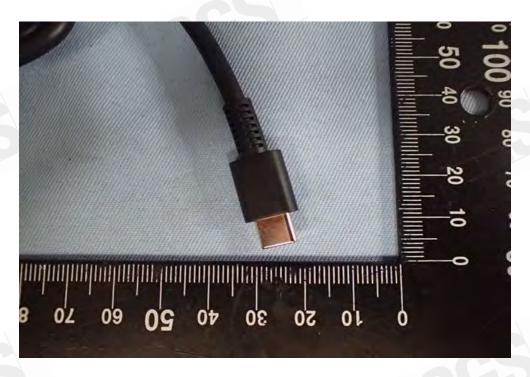
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