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.**
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-I38C**
Added Model(s)	**: N/A**
Standards	**: FCC Part 15, Subpart B, Class B Canada ICES-003 Issue 6(June 2016), Class B**
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.

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: Hex Chiang ***Date:*** Feb. 7, 2020

Hex Chiang (Asst. Section Manager)

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Revision History

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

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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-I38C
Added Model(s) : N/A
Model Difference : N/A

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1.3 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, 1.8m (Non-Detachable) to Power Adapter	
Memory	DDR 4 3200MHz (4GB/8GB/16GB)	
	DDR 4 2666MHz (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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Pre-test Mode

Mode	CPU	Memory	Touch Screen	Panel	SSD	eMMC	Battery	WLAN+BT	NFC	WWAN	Fingerprint	CCD	Adapter	Main Board	Docking	Adapter (Suppor Unit)
1	Intel i5-10210U 1.6GHz	4GB + 4GB DDR4 2666MHz	GIS 9AN13317-011	AUO B133HAN06.7	Samsung MZNLH128HBHQ-000H1 (128GB)	Hynix H26M62002JPR (32GB)	Simplo (hp) HSTNN-IB9G	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Chicony CNFJH4521004330LH	Chicony (hp) TPN-CA10	Inventec 6050A3142001	N/A	N/A
2	Intel i5-10310U 1.7GHz	4GB + 8GB DDR4 2666MHz	GIS 9AN13317-021	AUO B133HAN05.H	Samsung MZVLB256HBHQ-000H1 (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L860-GL	Synaptics FM3483-112	Chicony CKFJH2321004330LH	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
3	Intel i7-10510U 1.8GHz	4GB + 16GB DDR4 2666MHz	GIS 9AN13317-001	BOE NV133FHM-N4T	Samsung MZNLH256HAJD-000H7 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9BF112N3	Chicony (hp) TPN-CA15	Inventec 6050A3142001	N/A	N/A
4	Intel i7-10610U 1.8GHz	4GB + 32GB DDR4 2666MHz	TPK T08ALC13318HA	INX N133HCA-E5A	Samsung MZVLQ256HAJD-000H1 (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA16	Inventec 6050A3142001	N/A	N/A
5	Intel i7-10710U 1.1GHz	8GB + 8GB DDR4 2666MHz	TPK T08ALC13317HB	INX N133HCG-GE3	Samsung MZVLB512HBJQ-000H1 (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF121N3	Chicony (hp) TPN-CA17	Inventec 6050A3142001	N/A	N/A
6	Intel i7-10810U 1.1GHz	8GB + 16GB DDR4 2666MHz	TPK T08ALC13317HA	IVO M133NVFD	Samsung MZVLQ512HALU-000H1 (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	TFC YHKM	Chicony (hp) TPN-CA21	Inventec 6050A3142001	N/A	N/A
7	Intel i7-10810U 1.1GHz	8GB + 32GB DDR4 2666MHz	GIS 9AN13317-001	IVO X133NVFF	Samsung MZVLB512HBJQ-000H7 (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	TFC YHSC	Acbel (hp) TPN-AA05	Inventec 6050A3142001	N/A	N/A
8	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 2666MHz	GIS 9AN13317-001	LGD LP133WF9	Samsung MZVLB1T0HBLR-000H1 (1TB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	TFC YHSD	Acbel (hp) TPN-AA06	Inventec 6050A3142001	N/A	N/A
9	Intel i7-10810U 1.1GHz	16GB + 32GB DDR4 2666MHz	GIS 9AN13317-001	INX N133HCG-GE3	Samsung MZVLB2T0HALB-000H1 (2TB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Lite-on (hp) TPN-LA12	Inventec 6050A3142001	N/A	N/A
10	Intel i7-10810U 1.1GHz	32GB + 32GB DDR4 2666MHz	GIS 9AN13317-001	INX N133HCG-GE3	SanDisk SD9SN8W-128G-1006 (128GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Lite-on (hp) TPN-LA15	Inventec 6050A3142001	N/A	N/A
11	Intel i7-10810U 1.1GHz	4GB + 4GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Kioxia KXG60ZNV256G (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Lite-on (hp) TPN-LA16	Inventec 6050A3142001	N/A	N/A
12	Intel i7-10810U 1.1GHz	4GB + 8GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Kioxia KBG40ZNV256G (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Lite-on (hp) TPN-LA17	Inventec 6050A3142001	N/A	N/A
13	Intel i7-10810U 1.1GHz	4GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Kioxia KXG60ZNV512G (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Delta (hp) TPN-DA16	Inventec 6050A3142001	N/A	N/A
14	Intel i7-10810U 1.1GHz	8GB + 8GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Kioxia KXG60ZNV512G (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Delta (hp) TPN-DA17	Inventec 6050A3142001	N/A	N/A
15	Intel i7-10810U 1.1GHz	8GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Kioxia KXG6AZNV512G (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Delta (hp) TPN-DA20	Inventec 6050A3142001	N/A	N/A
16	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Kioxia KXG60ZNV1T02 (1TB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Artesyn (hp) TPN-TA02	Inventec 6050A3142001	N/A	N/A
17	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Kioxia KXG60PNV2T04 (2TB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Honor (hp) TPN-HA01	Inventec 6050A3142001	N/A	N/A
18	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Intel HBRPEKNX0101AH (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
19	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Intel HBRPEKNX0202AH (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
20	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Micron MTFDDAV256TDL-1AW 15ABHA (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
21	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Micron MTFDHBA256TCK-1AS1AABHA (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
22	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Western Digital SDBPNTY-256G-1006 (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
23	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Western Digital SDATN8Y-256G-1006 (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
24	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Western Digital SDAPNUW-256G-1006 (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
25	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Western Digital SDBPNTY-512G-1006 (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
26	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Western Digital SDBQNTY-512G-1006 (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
27	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Western Digital SDAPNUW-512G-1006 (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
28	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Western Digital SDBPNTY-1T00-1006 (1TB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
29	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Toshiba KXG60ZNV256G (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
30	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Toshiba KXG60ZNV512G (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
31	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Toshiba KXG6AZNV512G (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
32	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Toshiba KXG60ZNV1T02 (1TB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
33	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Hynix HFS256GD9TNG-L2A0A (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
34	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Hynix HFM256GDJTNI-82A0A (256GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
35	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Hynix HFS512GD9TNG-L2A0A (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
36	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Hynix HFM512GDJTNI-82A0A (512GB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
37	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Kioxia KXG60PNV2T04 (2TB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	N/A	N/A
38	Intel i7-10810U 1.1GHz	16GB + 16GB DDR4 3200MHz	GIS 9AN13317-001	INX N133HCG-GE3	Kioxia KXG60PNV2T04 (2TB)	Kingston EMMC32G-TB29 (32GB)	LGChem (hp) HSTNN-LB8R	Intel AX201NGW	WNC XRAV-1	Fibocom L850-GL	Synaptics FM3483-112	Luxvisions 9SF120N3	Chicony (hp) TPN-CA14	Inventec 6050A3142001	HP HSN-IX01	Delta (hp) TPN-DA12

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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	
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:

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:

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:

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:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “WINEMC” test software.
3. The EUT communicates with Notebook PC by Bluetooth radio.
4. 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.
6. Executed AMCAP2 software to turn-on the Camera.
7. 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:

1. Turn on the power of all equipment.
2. The EUT will reads/writes disk through “WINEMC” test software.
3. The EUT communicates with Notebook PC by Bluetooth radio.
4. 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.
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 GPS signal source and sustained action.
9. The EUT will receive the WCDMA/LTE signal source and continue to operate.
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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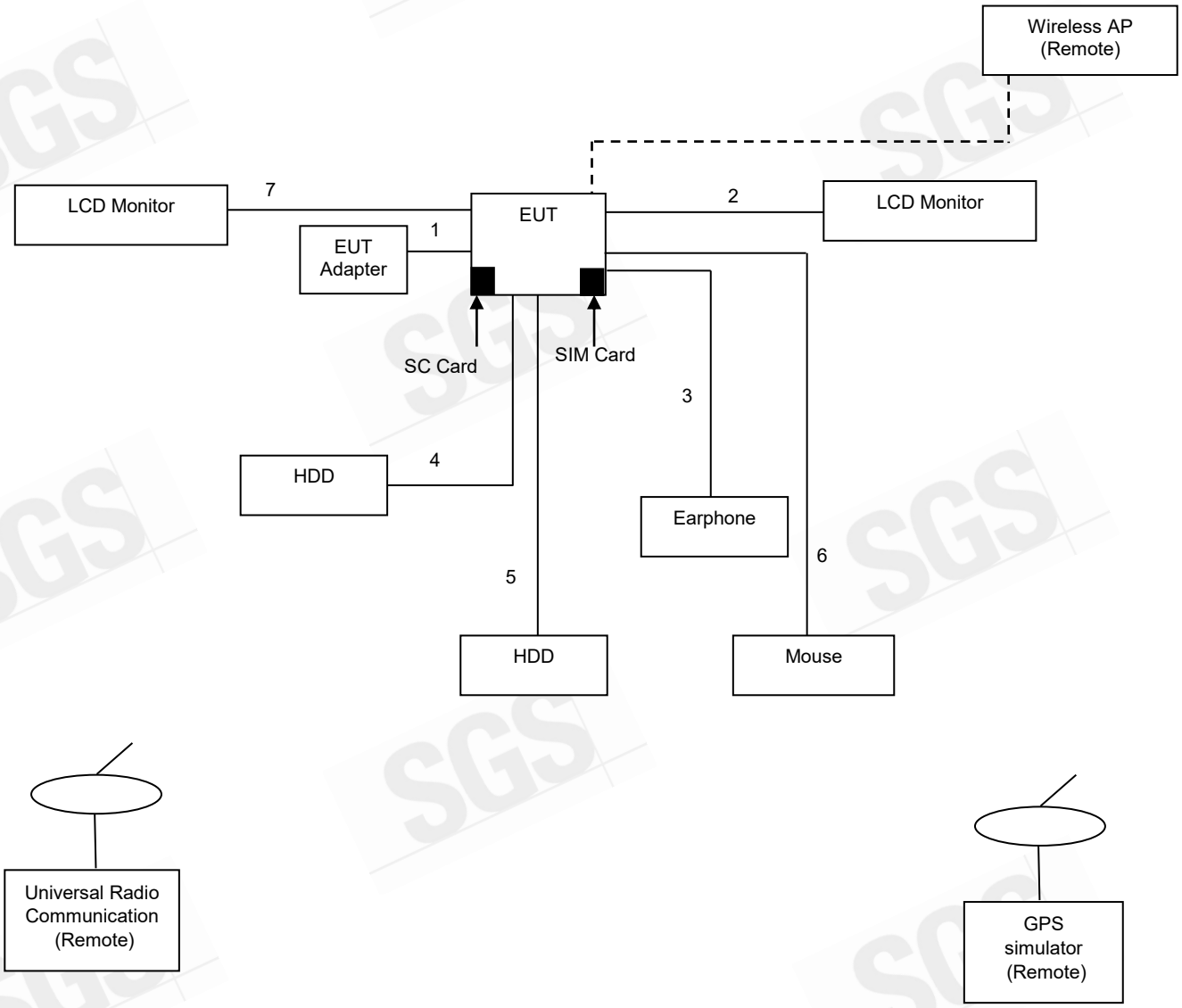
1.8 Test Set-Up Configuration

Mode 37



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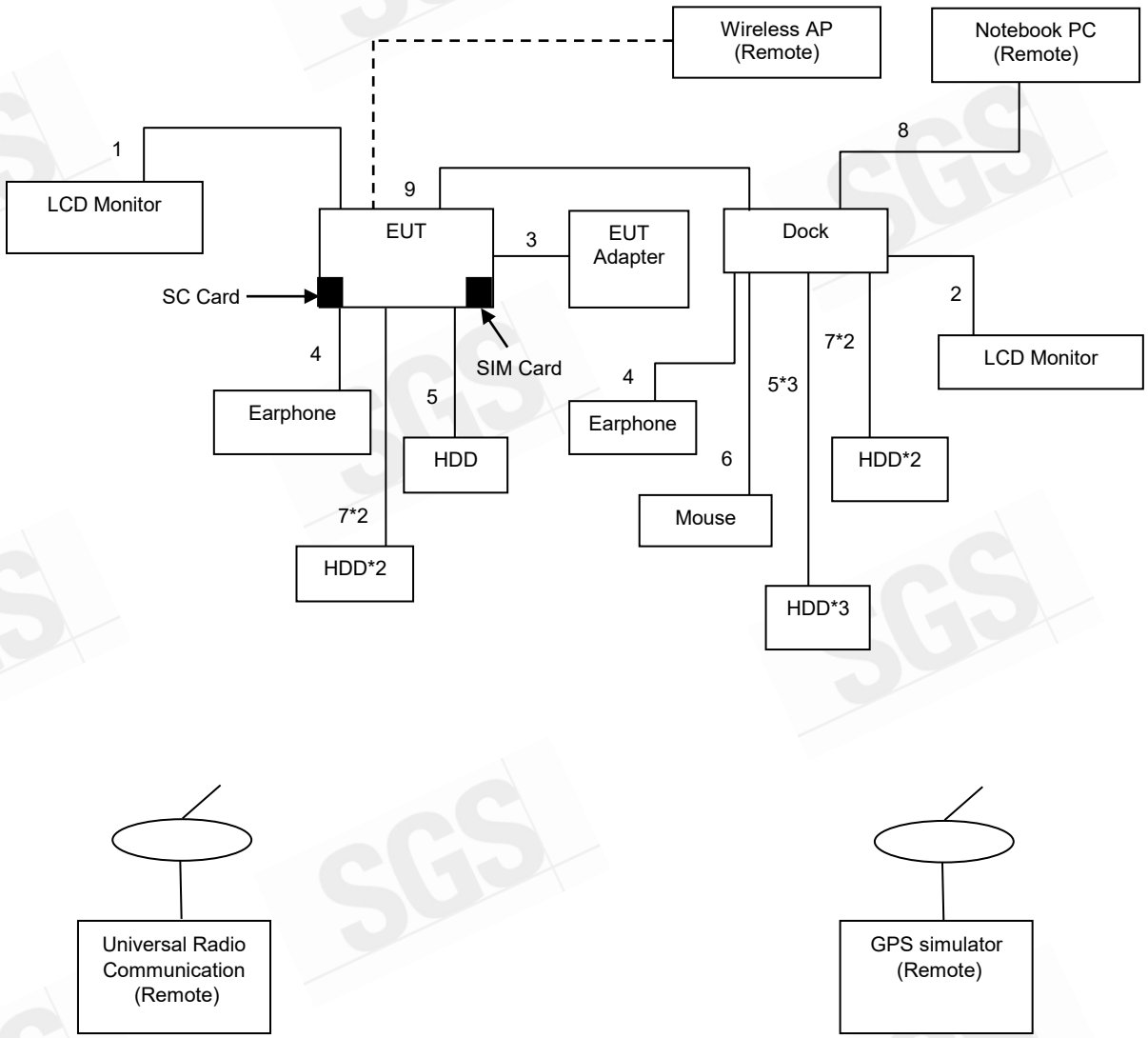
Mode 38



1.9 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 Canada ICES-003 Issue 6 (June 2016),Class B	Conducted Emission	PASS
	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 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

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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:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	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 (MHz)	Class A (at 10m)	Class B (at 3m)
	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 (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	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 (MHz)	Class A (at 10m)	Class B (at 10m)
	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 (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	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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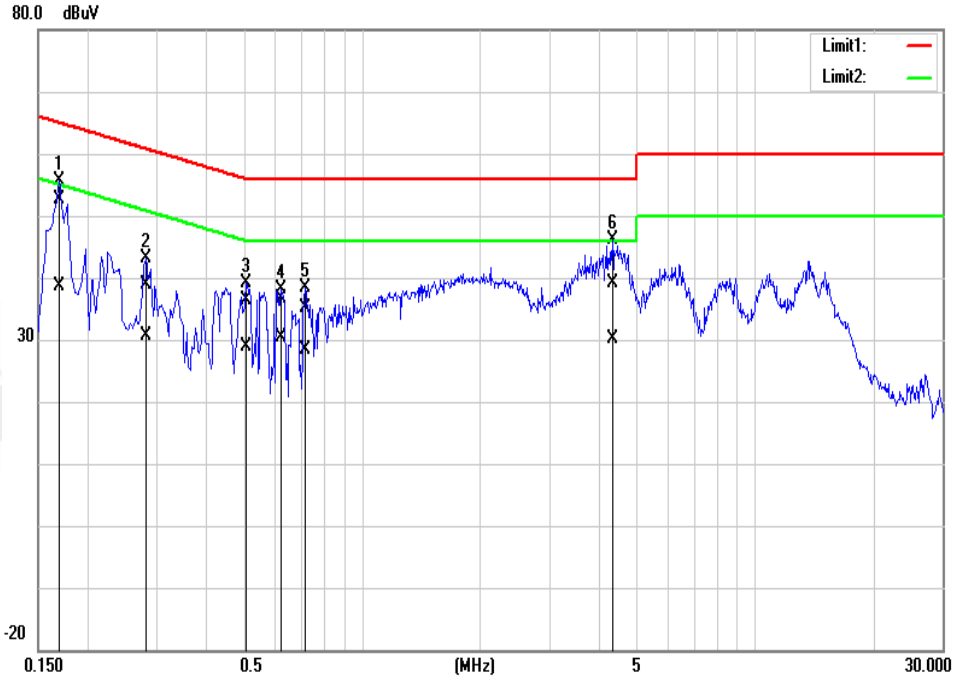
2.4.4 Measurement Data:

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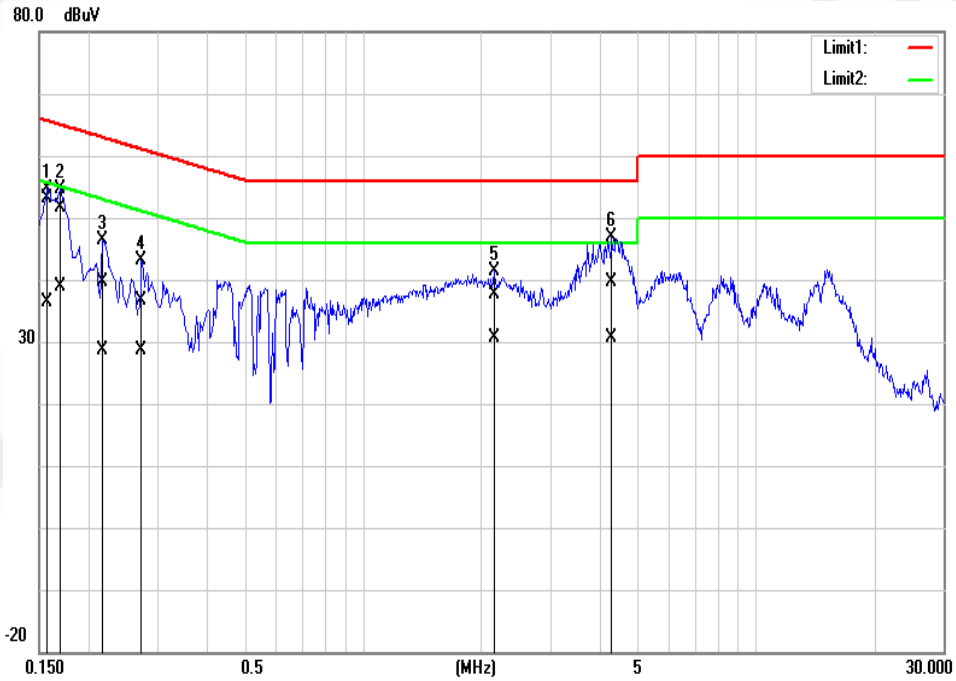
Model no.	HSN-I38C	Line:	L2
Environmental Conditions	24℃, 50% RH	Test Date	2020/1/10
Test Mode	Mode 37	Tested by	Jemmy Wang
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak limit	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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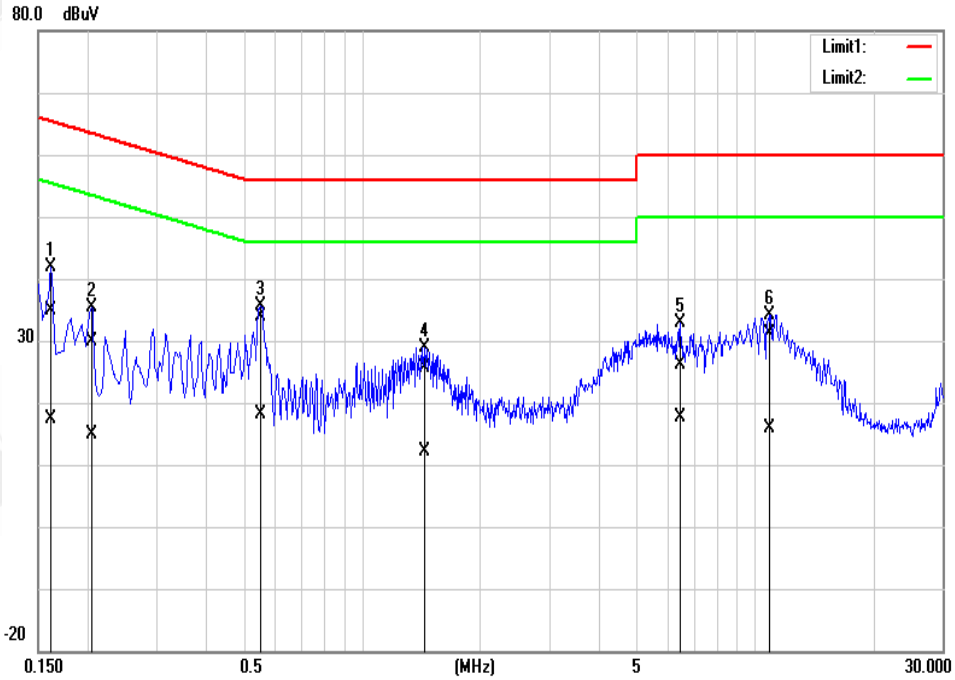
Model no.	HSN-I38C	Line:	L1
Environmental Conditions	19℃, 46% RH	Test Date	2020/1/13
Test Mode	Mode 38	Tested by	Jemmy Wang
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak limit	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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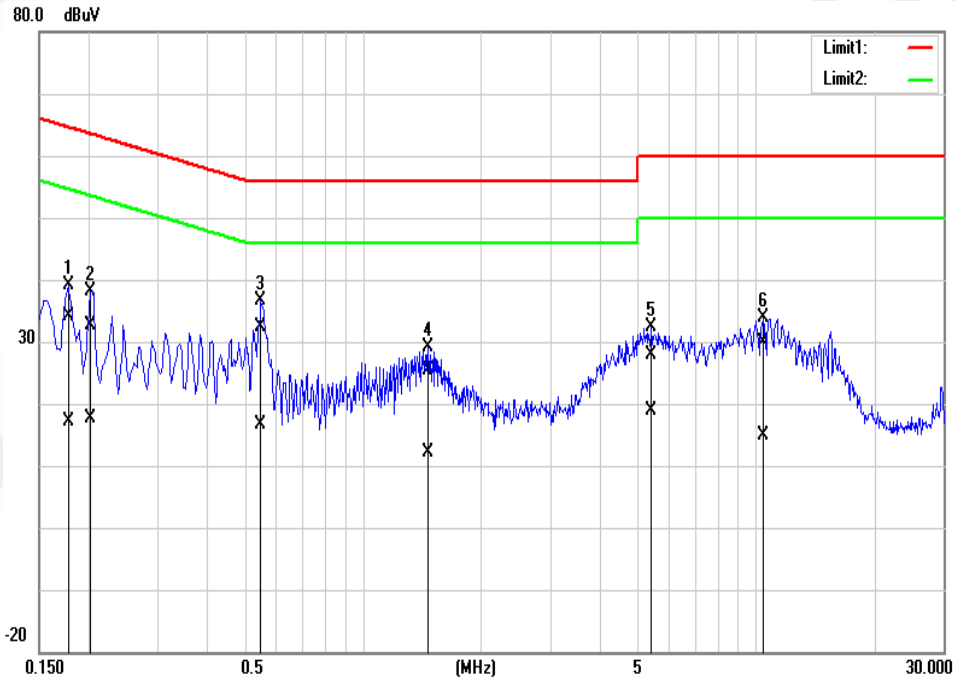
Model no.	HSN-I38C	Line:	L2
Environmental Conditions	19℃, 46% RH	Test Date	2020/1/13
Test Mode	Mode 38	Tested by	Jemmy Wang
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak limit	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

Radiated_Below_1GHz 10m_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 (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

Radiated_Above _1GHz 10m_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 (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 4.89 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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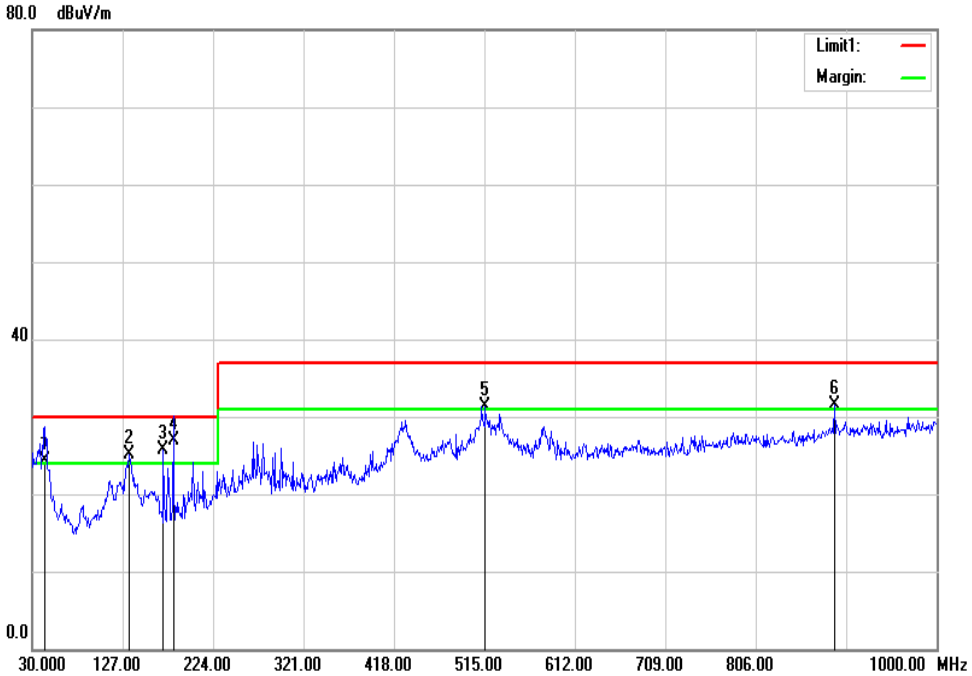
2.5.4 Measurement Data

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



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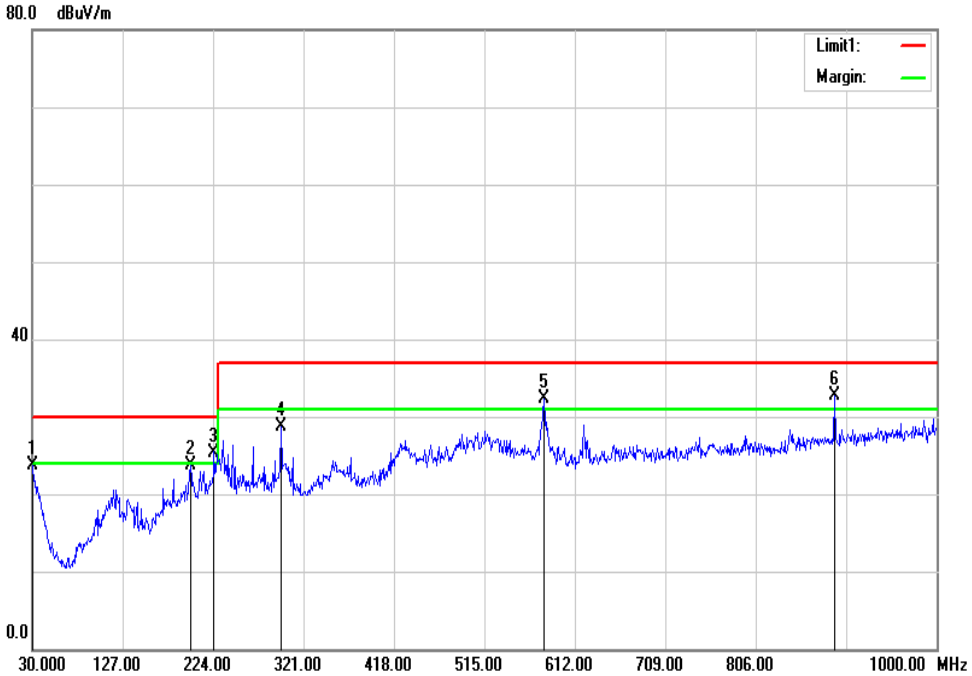
Model no.	HSN-I38C	**Test Mode**	Mode 37
Environmental Conditions	22℃, 52% RH	**Test Date**	2020/1/16
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested by**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17



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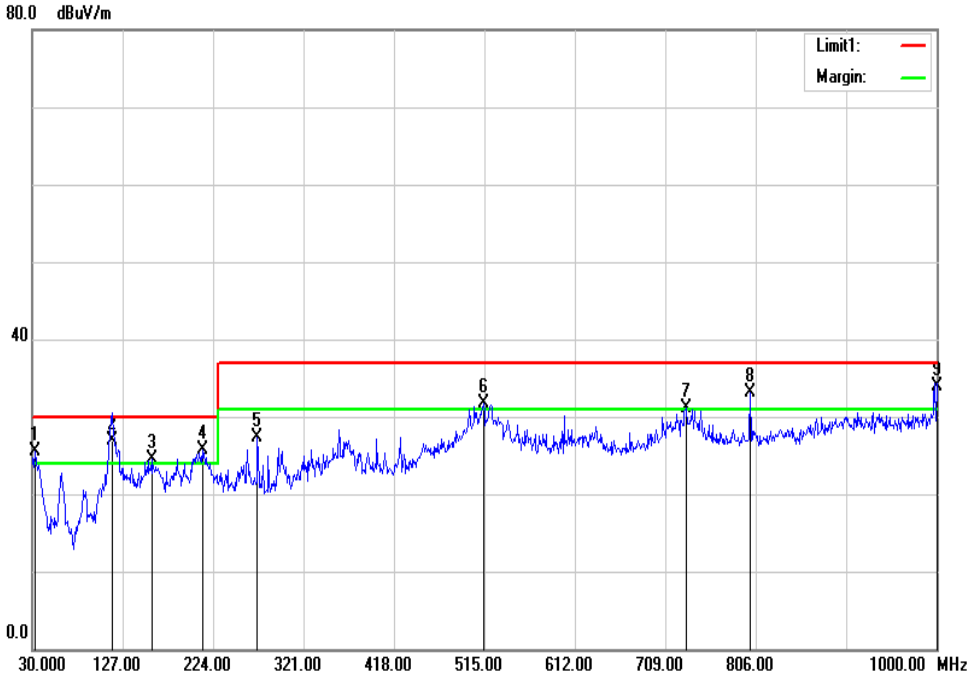
Model no.	HSN-I38C	**Test Mode**	Mode 38
Environmental Conditions	22℃, 52% RH	**Test Date**	2020/1/16
Antenna Pole	Vertical	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested by**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17



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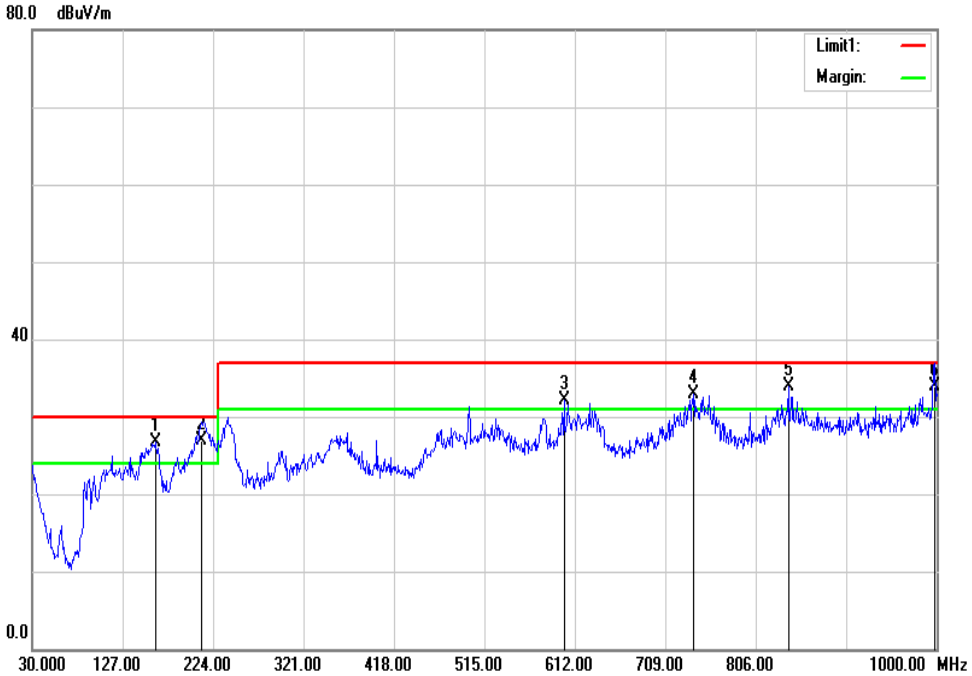
Model no.	HSN-I38C	**Test Mode**	Mode 38
Environmental Conditions	22℃, 52% RH	**Test Date**	2020/1/16
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function	Quasi-peak.	**Tested by**	Rex Kuo
6dB Bandwidth	120 kHz	**Identifier number**	TCOP RE site 17



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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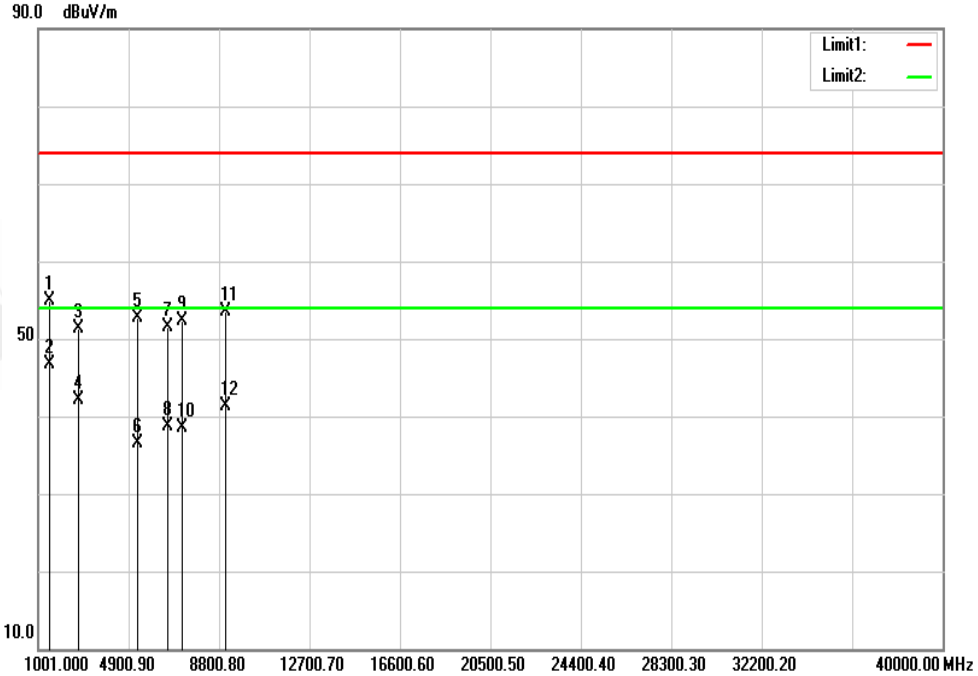
Above 1GHz

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	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	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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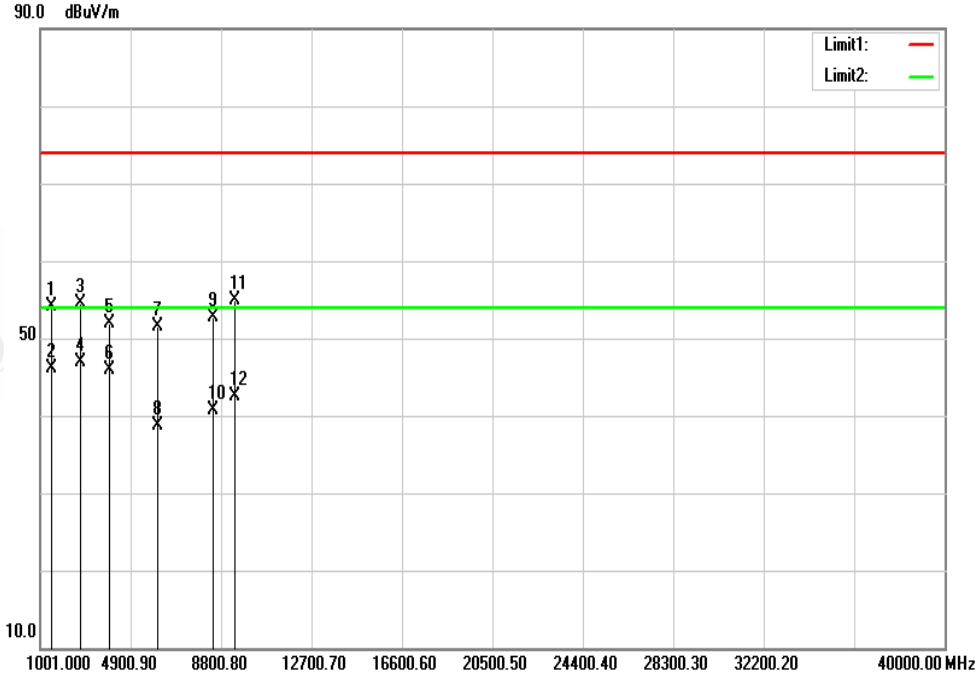
Model no.	HSN-I38C	**Test Mode**	Mode 37
Environmental Conditions	22℃, 52% RH	**Test Date**	2020/1/16
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	1.8GHz	**Upper frequency**	9GHz
Detector Function	Peak & Average.	**Tested by**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier 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	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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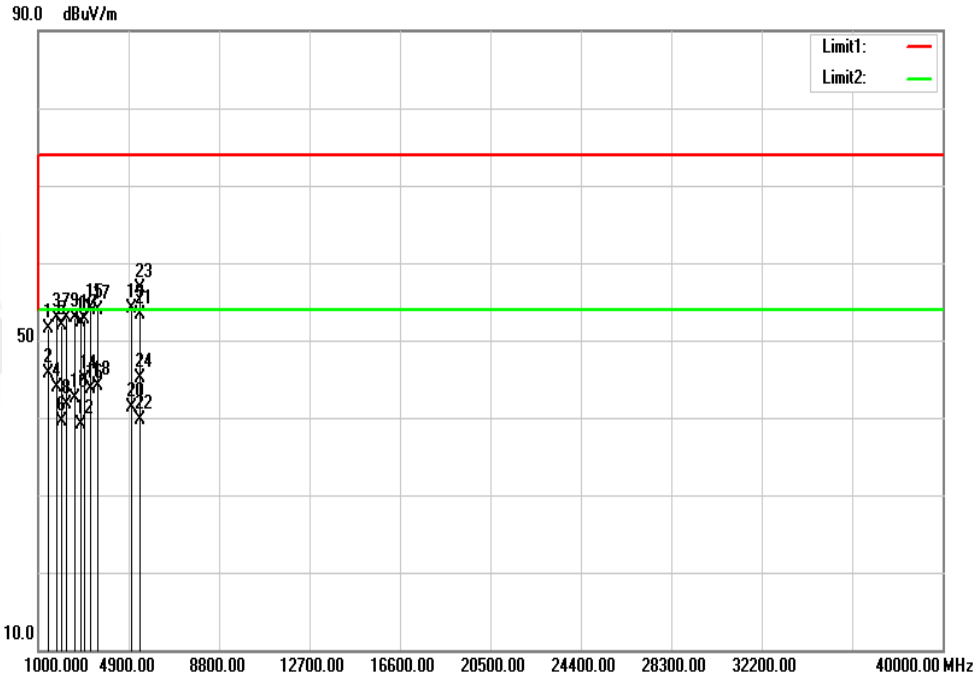
Model no.	HSN-I38C	**Test Mode**	Mode 38
Environmental Conditions	22℃, 52% RH	**Test Date**	2020/1/16
Antenna Pole	Vertical	**Antenna Distance**	3m
Highest frequency generated or used	1.8GHz	**Upper frequency**	9GHz
Detector Function	Peak & Average.	**Tested by**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier 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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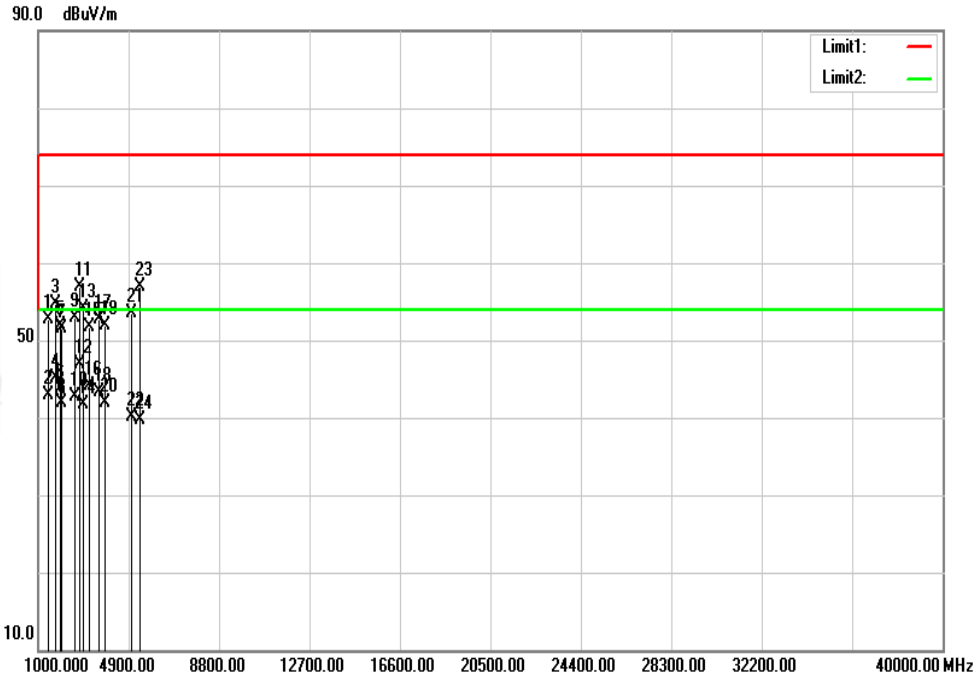
Model no.	HSN-I38C	**Test Mode**	Mode 38
Environmental Conditions	22℃, 52% RH	**Test Date**	2020/1/16
Antenna Pole	Horizontal	**Antenna Distance**	3m
Highest frequency generated or used	1.8GHz	**Upper frequency**	9GHz
Detector Function	Peak & Average.	**Tested by**	Rex Kuo
6dB Bandwidth	1 MHz	**Identifier 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	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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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
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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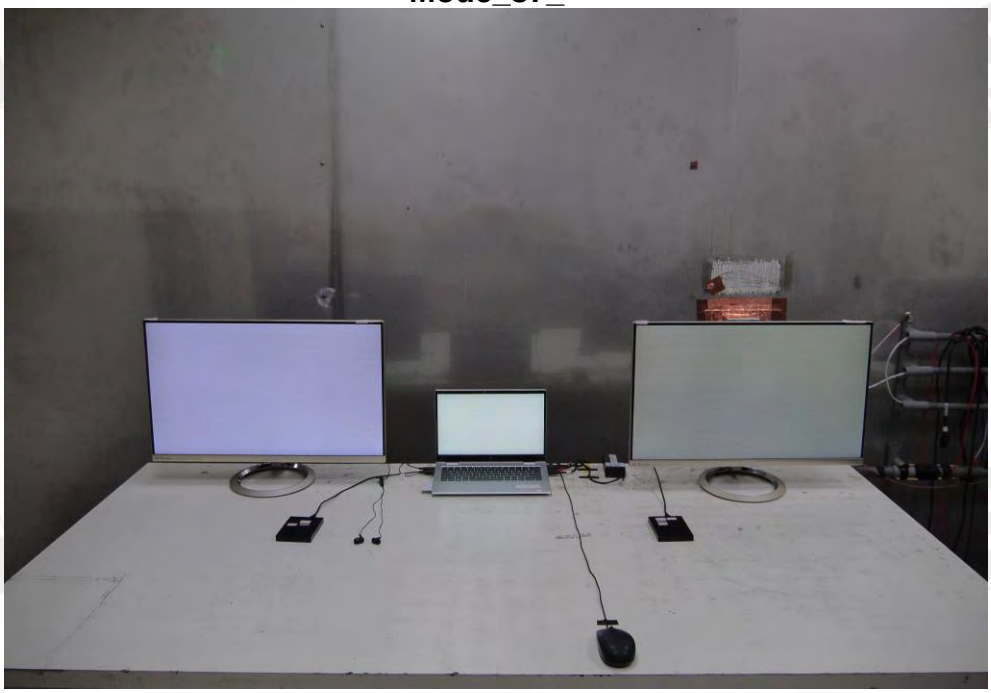
3. Photographs of Test

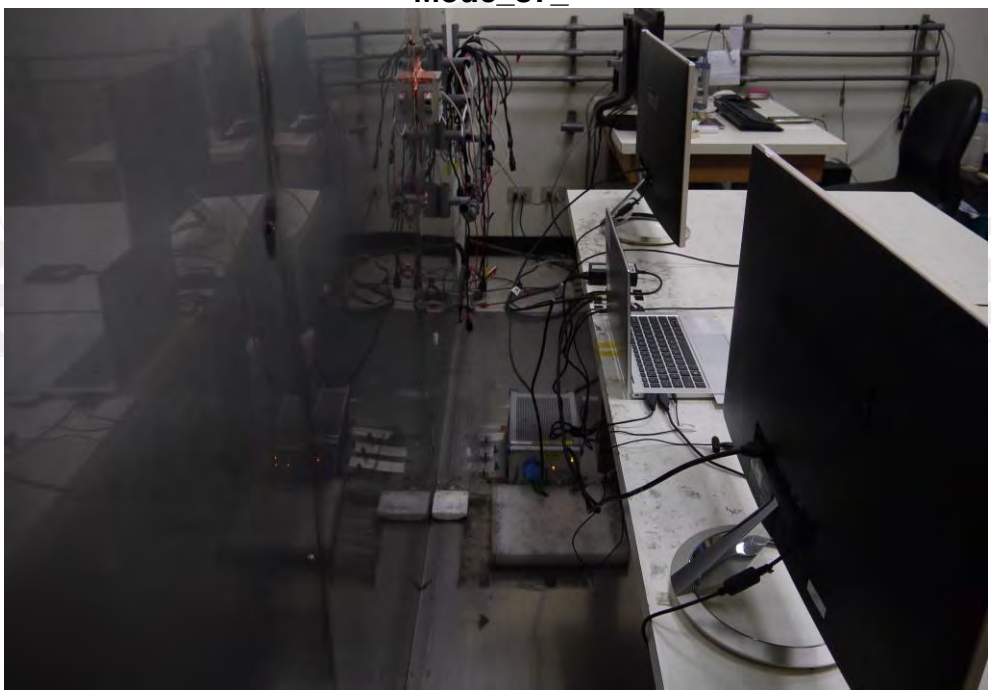
CE Testing Set-up

Model No.: HSN-I38C

Mode_37_+



Mode_37_-



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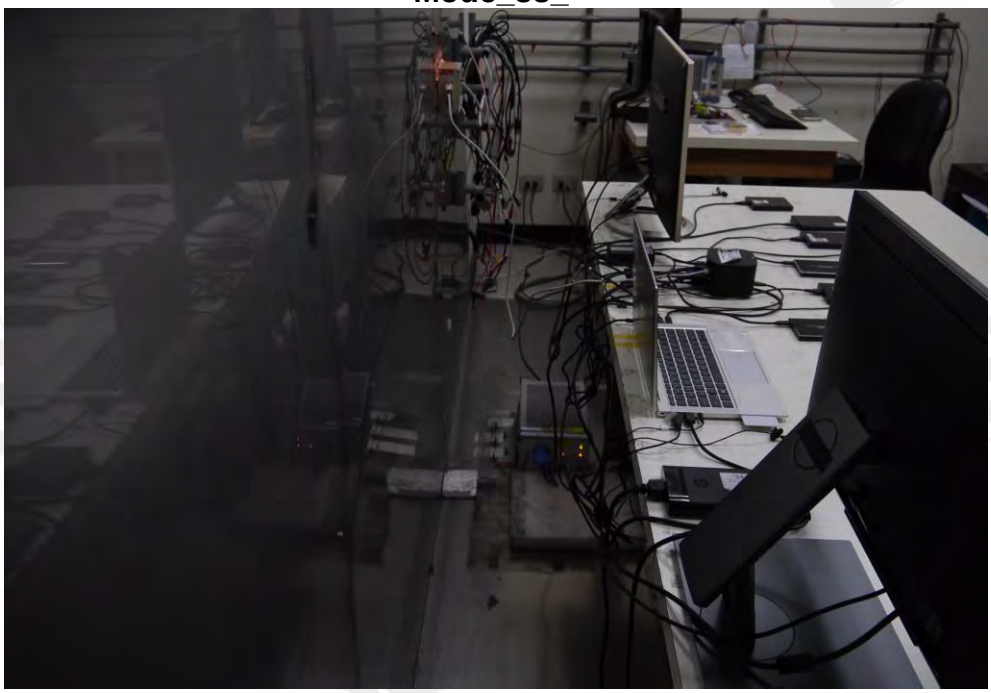
Model No.: HSN-I38C

Mode_38_+

Mode_38_-



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RE Testing Set-up

Below 1GHz

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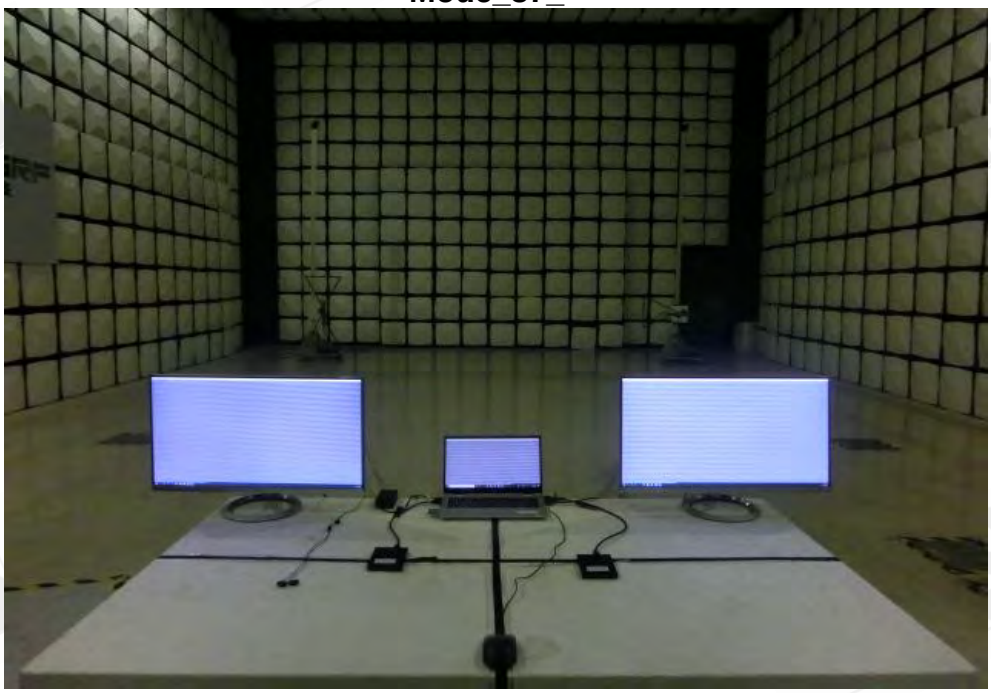
Mode_37_+



Mode_37_-

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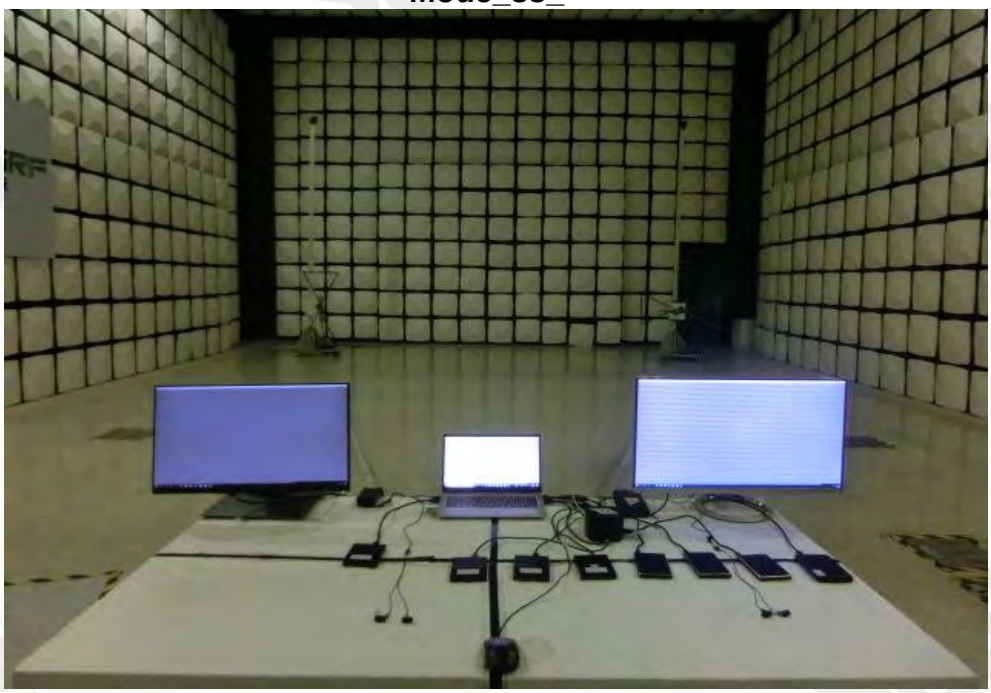
Mode_38_+



Mode_38_-

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Above 1GHz

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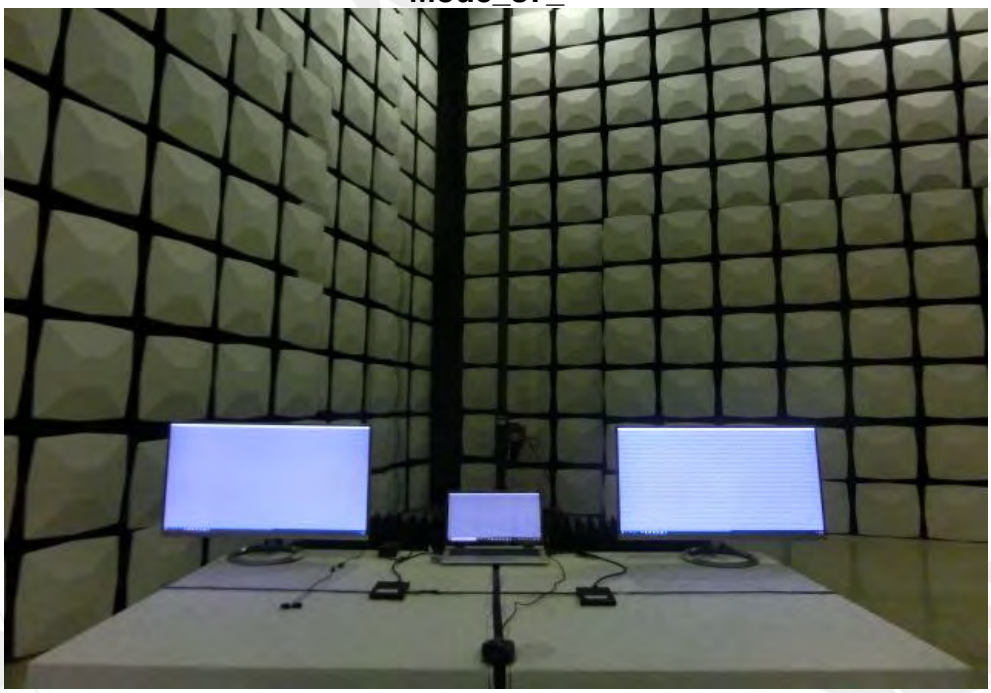
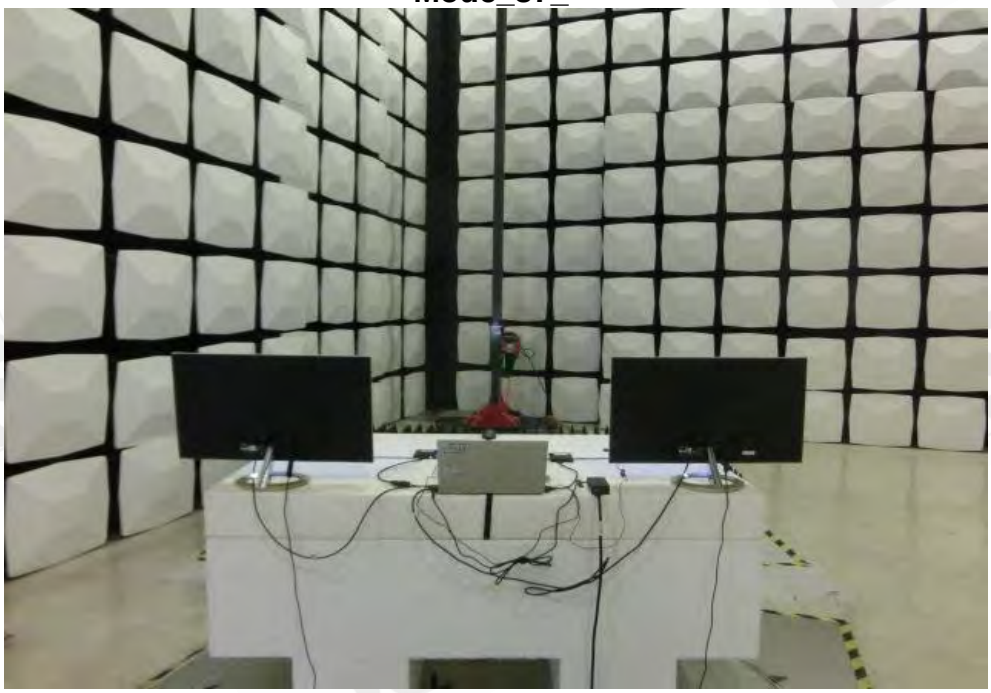
Mode_37_+



Mode_37_-



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Model No.: HSN-I38C

Mode_38_+

Mode_38_-

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4. Photographs of Product

Exterior

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

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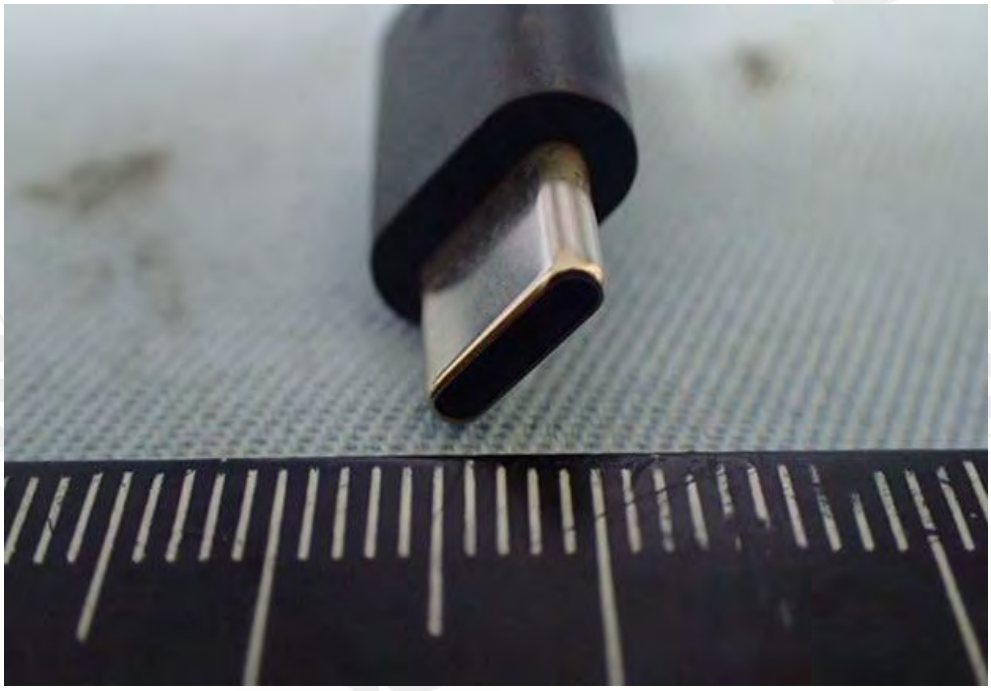

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Adapter Model No.: Chicony (hp) / TPN-CA14

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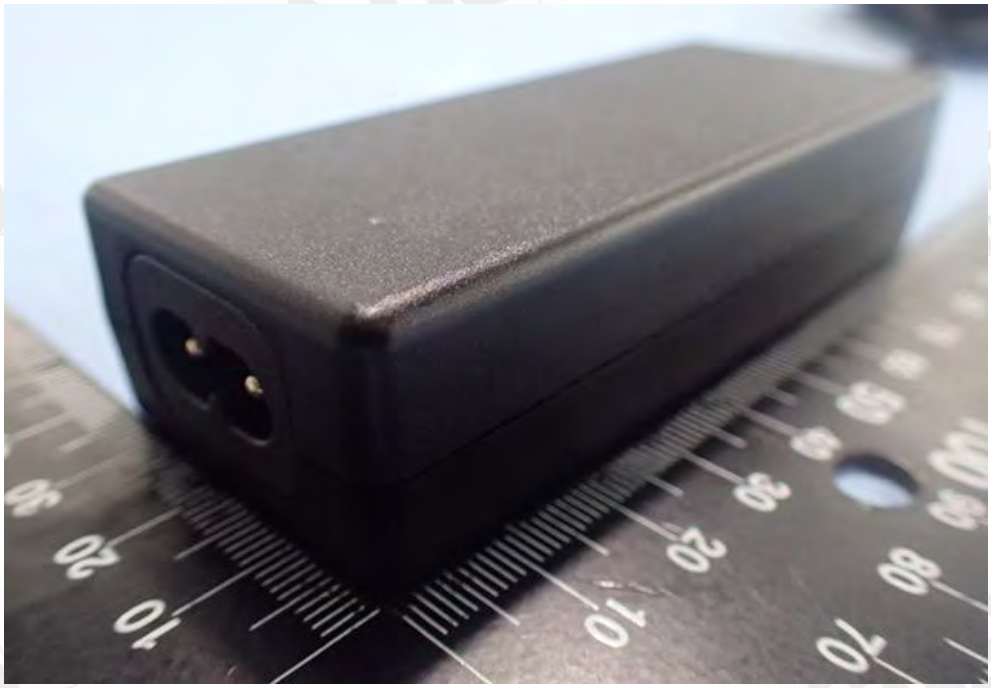
Adapter Model No.: Chicony (hp) / TPN-CA15



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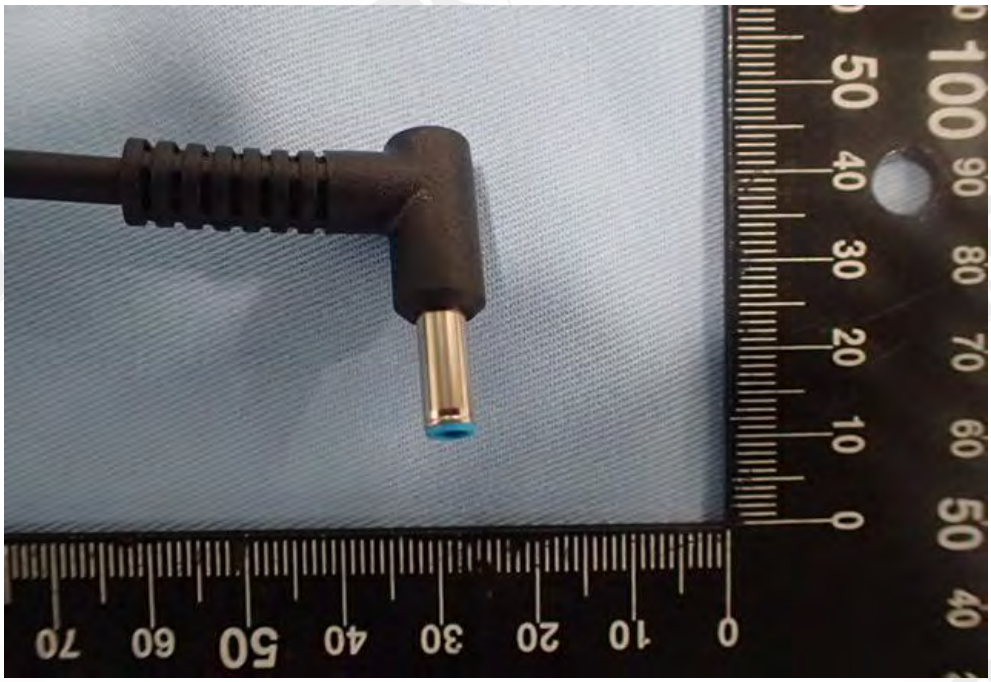

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Adapter Model No.: Chicony (hp) / TPN-CA16

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

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

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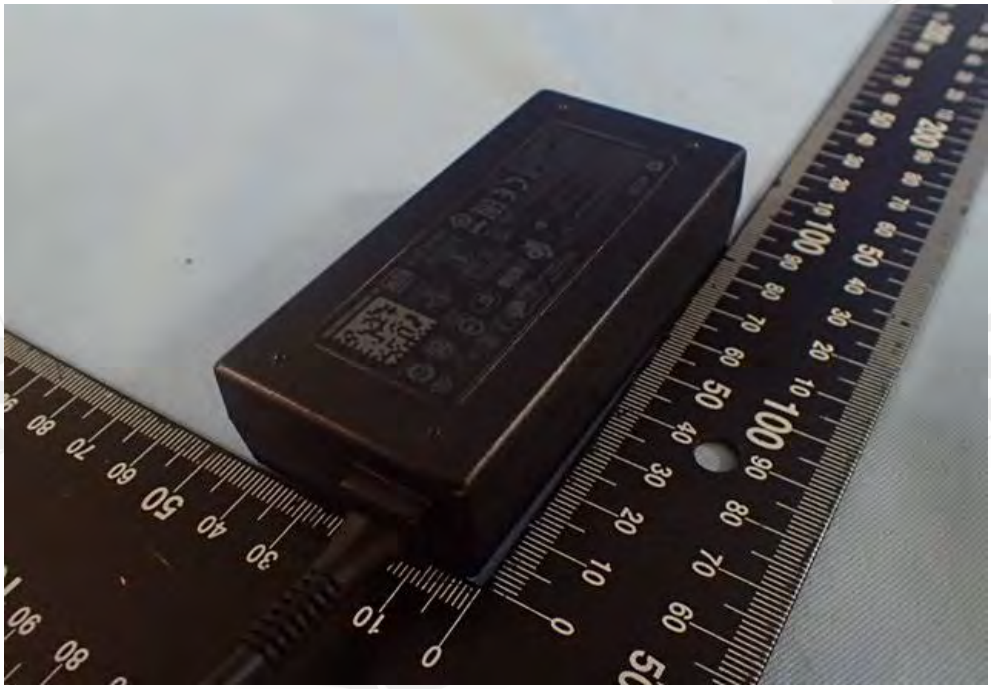
Adapter Model No.: Acbel (hp) / TPN-AA05



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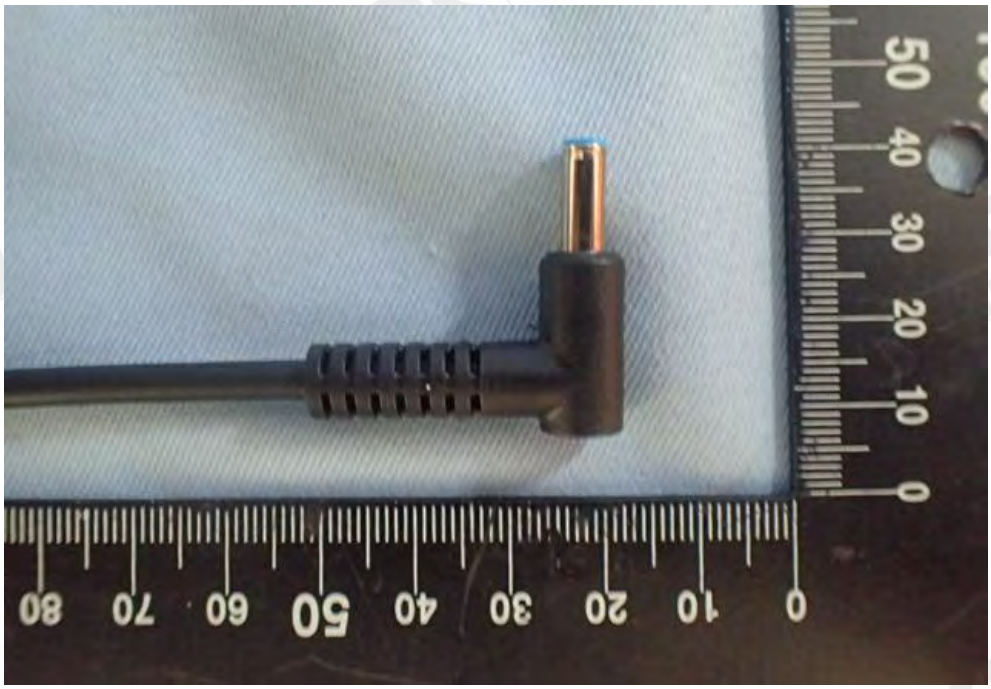

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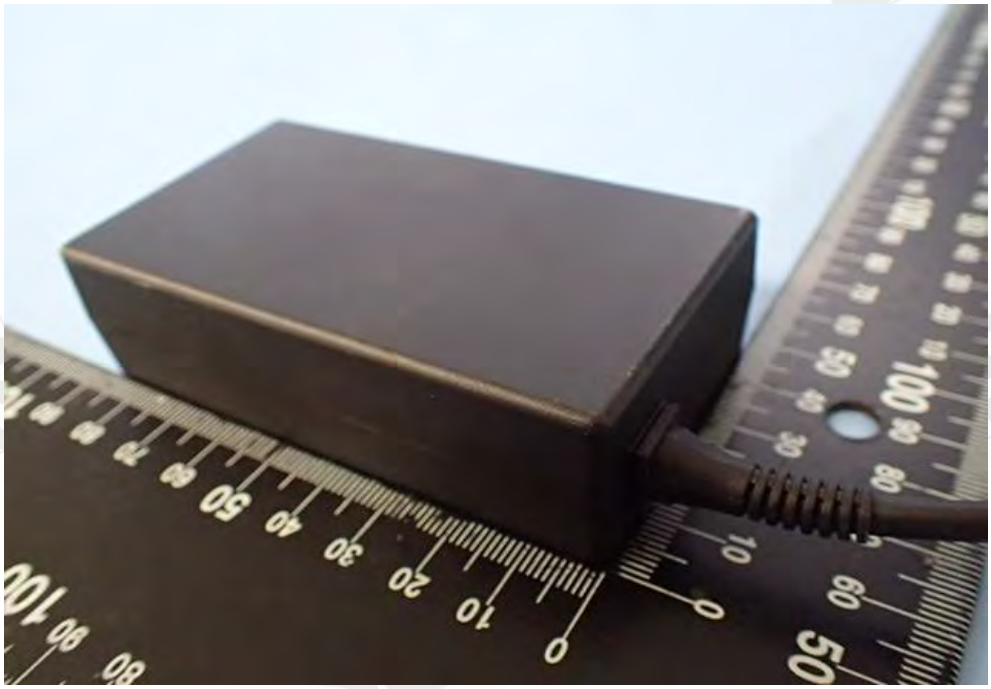
Adapter Model No.: Acbel (hp) / TPN-AA06



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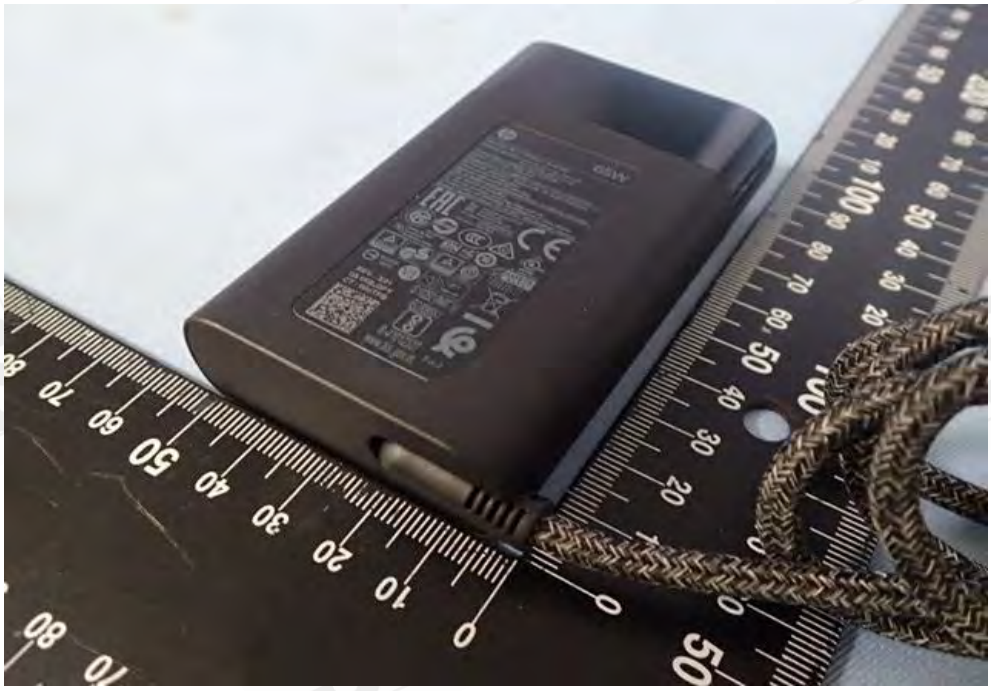
Adapter Model No.: Lite-on (hp) / TPN-LA12



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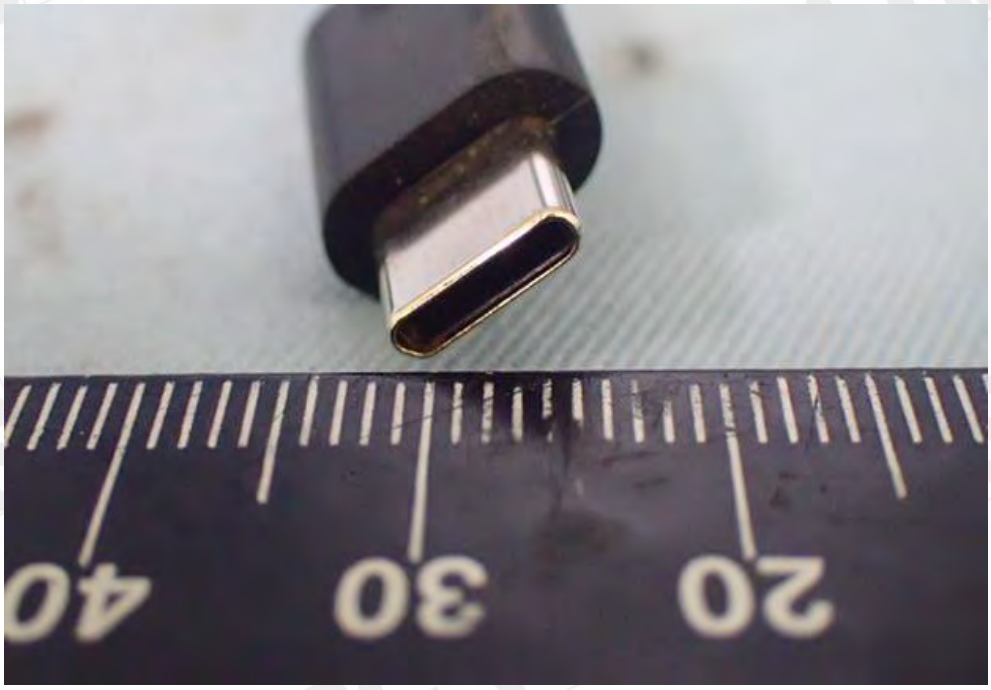

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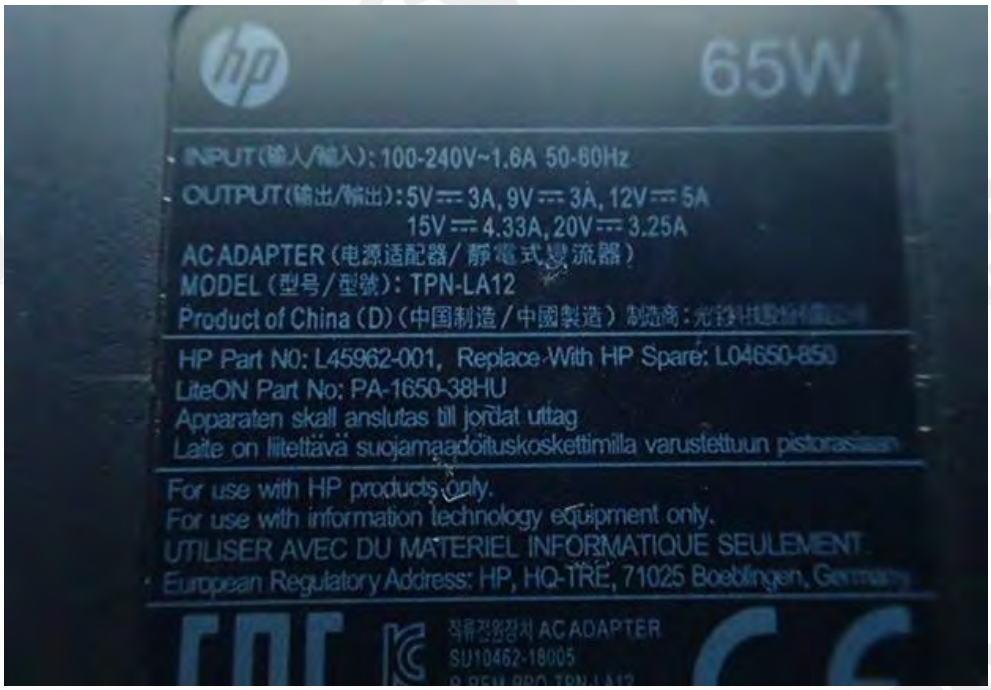

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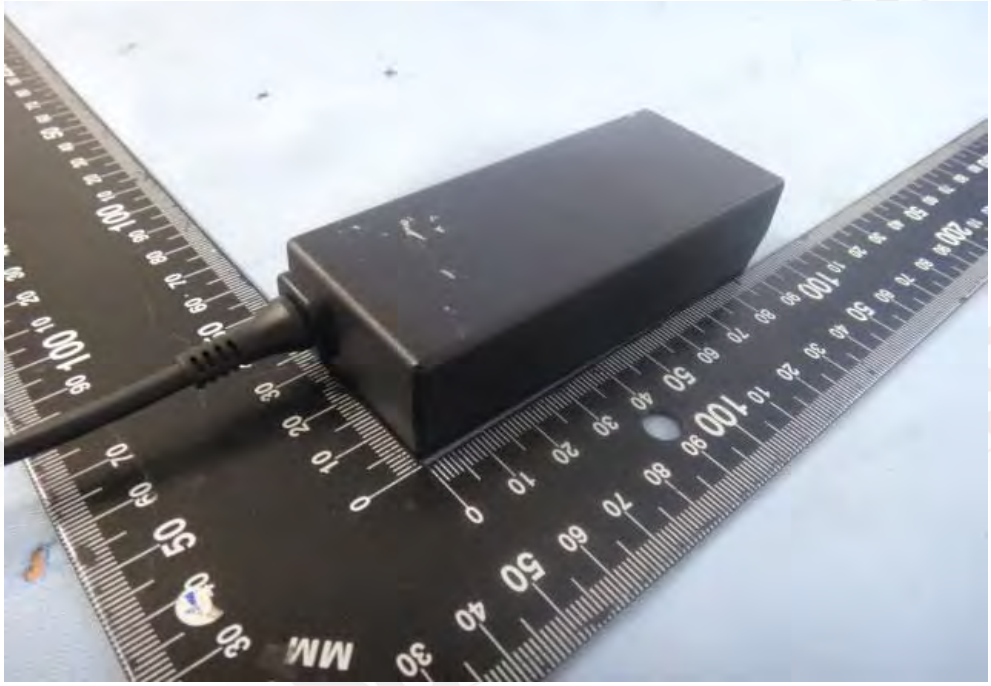
Adapter Model No.: Lite-on (hp) / TPN-LA15



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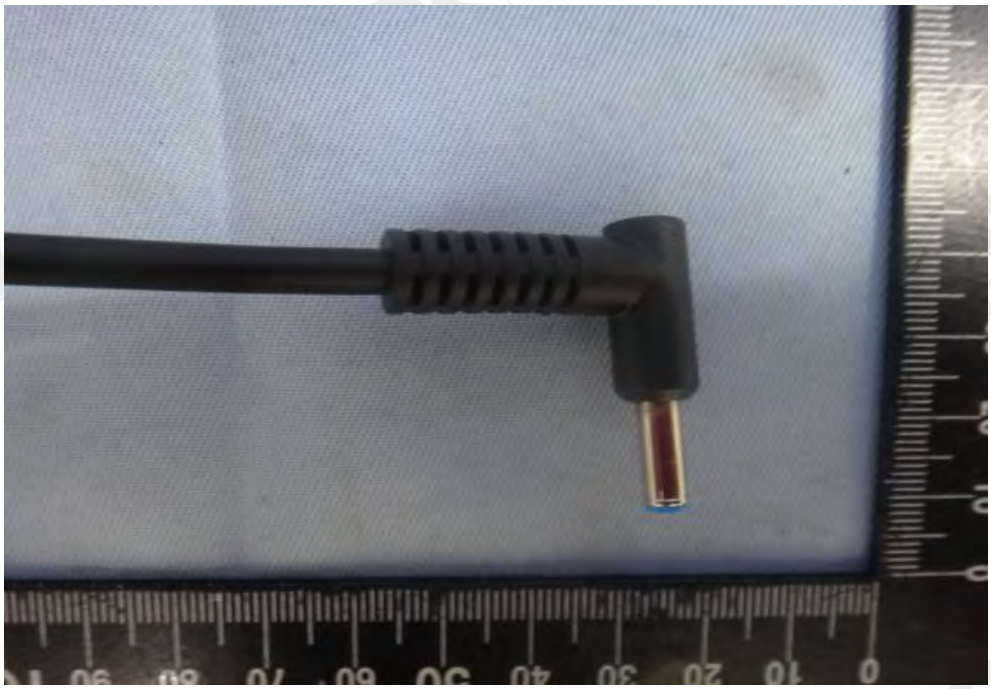

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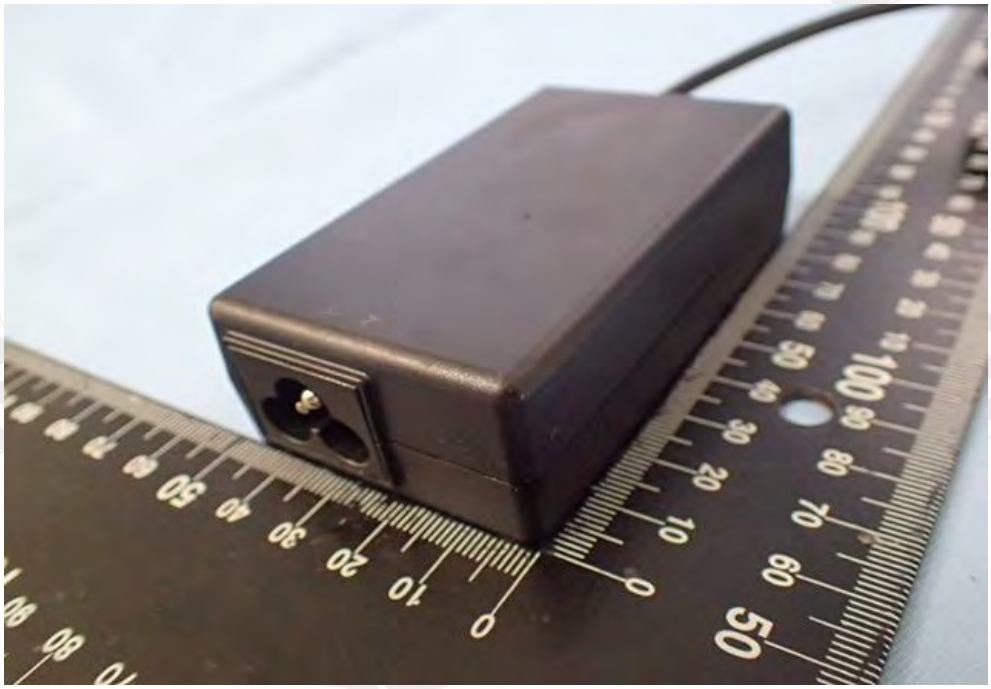
Adapter Model No.: Lite-on (hp) / TPN-LA16



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

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

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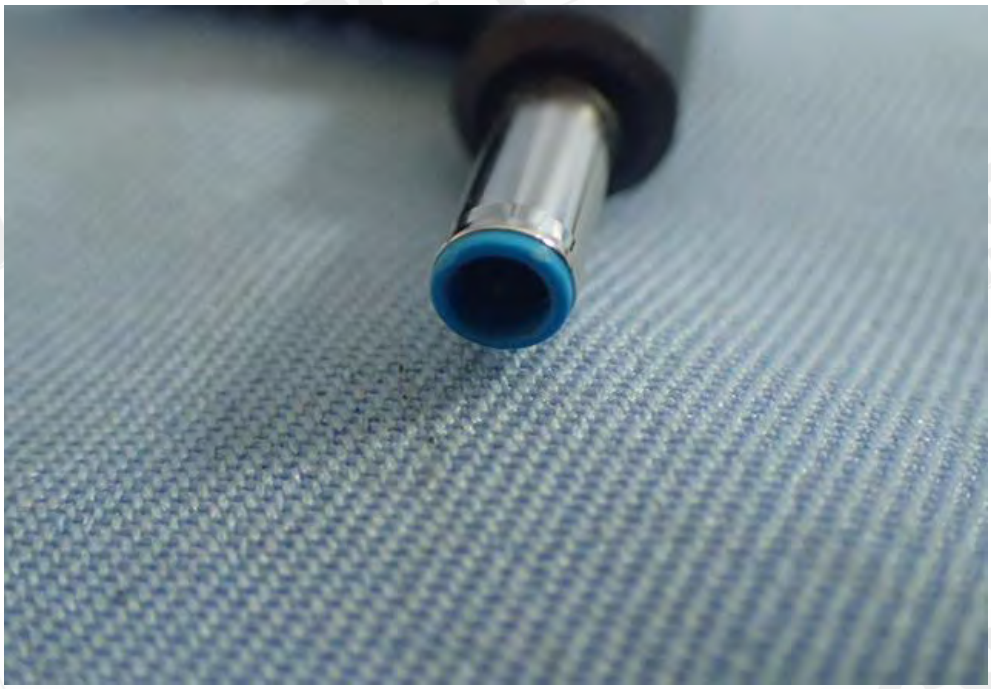

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Adapter Model No.: Delta (hp) / TPN-DA17

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

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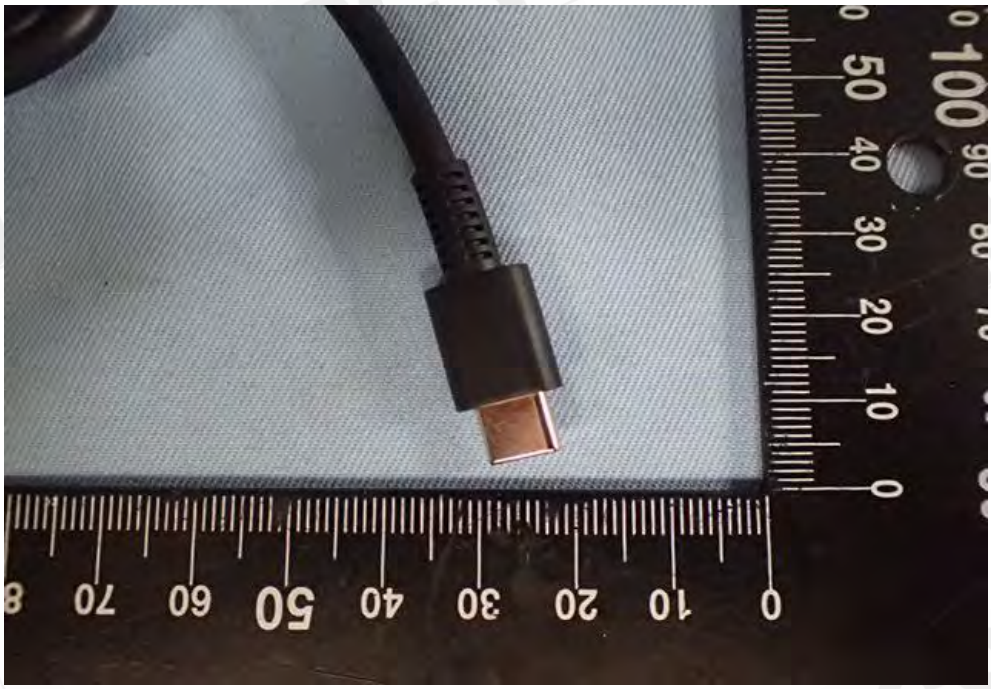

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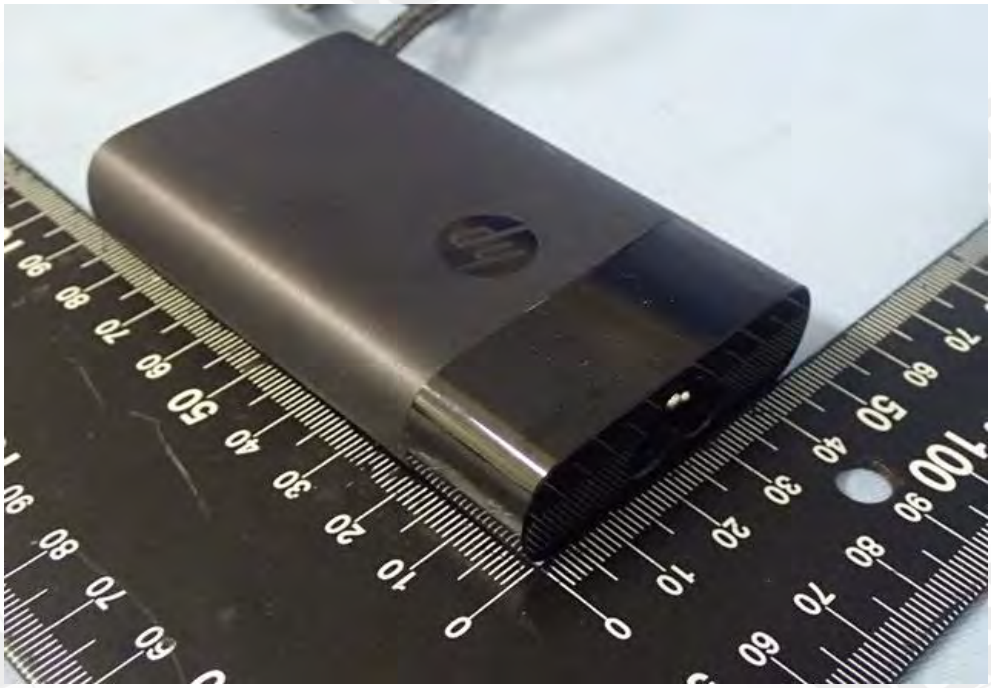
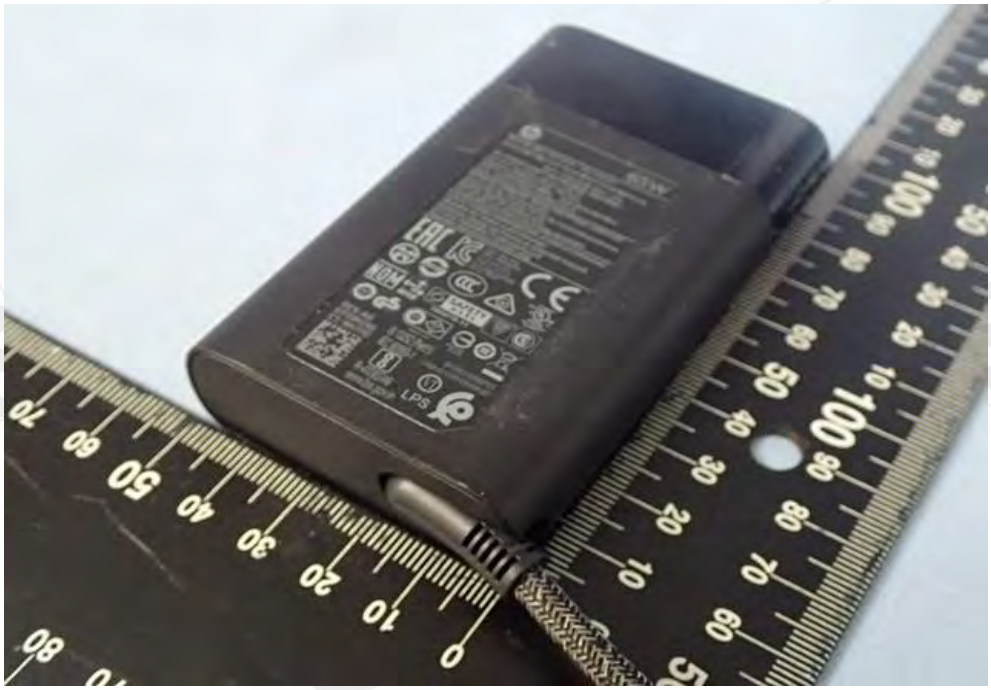
Adapter Model No.: Artesyn (hp) / TPN-TA02





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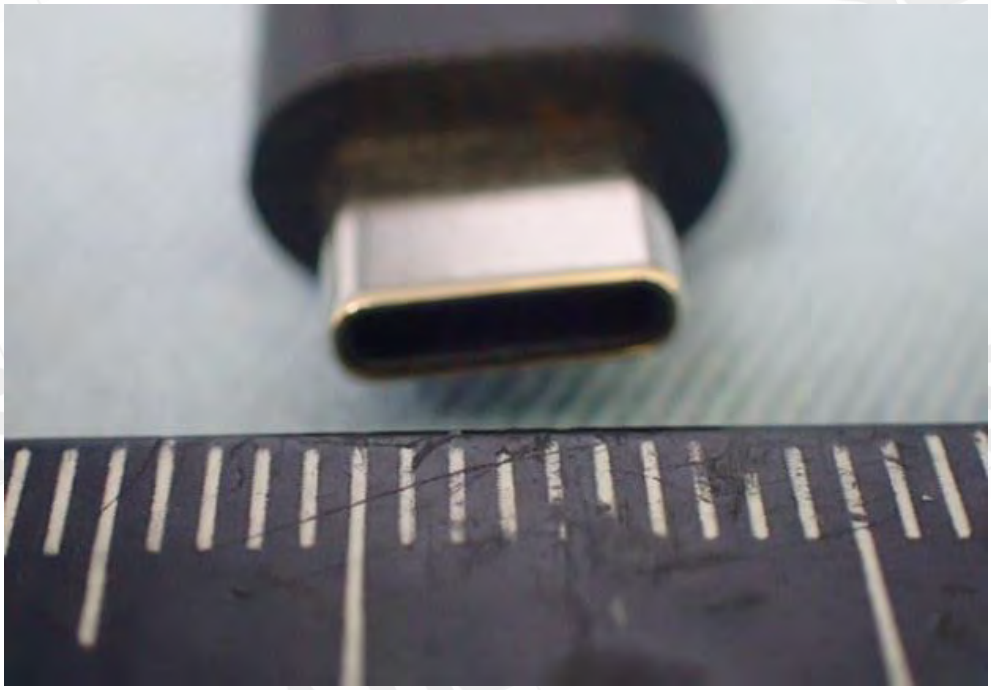

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Adapter Model No.: Honor (hp) / TPN-HA01

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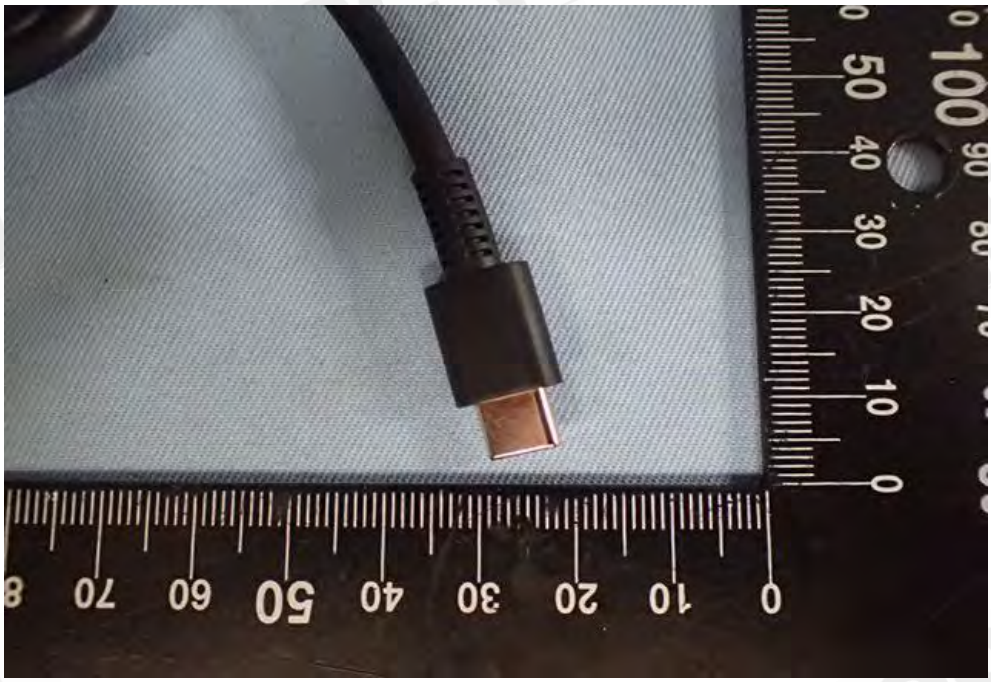

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