FCC SDoC REPORT
Canada ISED ICES-003 TEST REPORT

Test Report No.	: T190527L11-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-I32C
Added Model(s)	: N/A
Standards	: FCC Part 15:2017, Subpart B, Class B Canada ICES-003 Issue 6 (June 2016), Class B
Date of Sample Receipt	: May 30, 2019
Date of Test	: May 30 ~ 31, 2019
Date of Issue	: Jul. 5, 2019

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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Tested By:	Frank Lin	***Date:***	Jul. 5, 2019
	Frank Lin (Engineer)		
Approved By:	Hex Chiang	***Date:***	Jul. 5, 2019
	Hex Chiang (Supervisor)		

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Revision History

Report Number	Revision	Description	Issue Date
T190527L11-F	Rev.00	Initial creation of document	Jul. 5, 2019

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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-I32C
Added Model(s)	: N/A
Model Difference	: N/A

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1.3 Details of EUT

Power Supply	AC 100 ~ 240V	
Highest operate description	2.1GHz	
Duckhead Type	2pin / 3pin	
Adapter	Chicony (hp)	TPN-CA06
		TPN-CA10
	Acbel (hp)	TPN-AA03
	Artesyn (hp)	TPN-TA02
	Lite-on (hp)	TPN-LA12
Adapter Power Rating	**For TPN-CA06 ; TPN-AA03** I/P: 100-240VAC, 50-60Hz, 1.7A O/P: 5VDC,3A; 9VDC,3A; 10VDC,5A; 12VDC,5A; 15VDC,4.33A; 20VDC, 3.25A	
	For TPN-CA10; TPN-LA12 I/P: 100-240VAC, 50-60Hz, 1.6A O/P: 5VDC,3A; 9VDC,3A; 12VDC,5A; 15VDC,4.33A; 20VDC, 3.25A	
	For TPN-TA02 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	Unshielded, 1.8m (Detachable) to Power Adaptor	
DC Power Cable Type	Shielded, 1.8m (Non-Detachable) to Power Adapter	
Memory	DDR 3 2133MHz (8GB/16GB)	
Main Board	Inventec	6050A3074401
CPU	Intel	i3-8145U 2.1GHz
		i5-8265U 1.6GHz
		i5-8365U 1.6GHz
		i7-8565U 1.8GHz
		i7-8665U 1.9GHz
13.3” LCD Panel	AUO	B133HAN05.E
		B133ZAN02.A
	INX	N133HCG-GF3
	IVO	M133NVFC
	LG	LP133WF9-SPA1

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SSD	Samsung	MZNLN128HAHQ-000H1 (128GB)
		MZVLB256HAHQ-000H1 (256GB)
		MZNLN256HAJQ-000H7 (256GB)
		MZVLB512HAJQ-000H1 (512GB)
		MZVLB512HAJQ-000H7 (512GB)
		MZVLB1T0HALR-000H1 (1TB)
		MZVLB2T0HMLB-000H1 (2TB)
	SanDisk	SD9SN8W-128G-1006 (128GB)
		SD9TN8W-256G-1006 (256GB)
	Toshiba	KXG60ZNV256G (256GB)
		KBG30ZMV256G (256GB)
		KXG60ZNV512G (512GB)
		KBG30ZMV512G (512GB)
		KXG5AZNV512G (512GB)
		KXG60ZNV1T02 (1TB)
		KXG50PNV2T04 (2TB)
	Intel	SSDPEKNW512G8H (512GB)
		HBRPEKNX0202AH (512GB)
	Micron	MTFDDAV256TBN-1AR15ABHA (256GB)
		MTFDDAV512TBN-1AR15FCHA (512GB)
	Western Digital	SDAPNTW-256G-1006 (256GB)
		SDAPNUW-256G-1006 (256GB)
		SDAPNTW-512G-1006 (512GB)
		SDAPNUW-512G-1006 (512GB)
		SDAQNTW-512G-1006 (512GB)
		SDAPNTW-1T00-1006 (1TB)
	Hynix	HFM256GDJTNG-8310A (256GB)
		HFM512GDJTNG-8310A (512GB)
	Lite-On	CV8-8E128-HP (128GB)
	Kingston	RBU-SNS8350DES3/128GP (128GB)
eMMC	Hynix	H26M62002JPR (32GB)
	Samsung	KLMBG2JETD-B041 (32GB)
	SanDisk	SDINBDA4-32G-V (32GB)
	Kingston	EMMC32G-TB29(32GB)

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Battery Pack	Dynapack (hp)	HSTNN-DB9I
		HSTNN-DB9J
	Simplo (hp)	HSTNN-IB8Y
Wireless LAN + Bluetooth Combo	Intel	AX200D2WL
WWAN	Fibocom	L850-GL
		L860-GL
CCD	Chicony	CKFIH5121004330LH
	Luxvision	8BF118N2
Pen (Optional)	Wacom	ESP-221B-19A-5

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Pre-test Mode

Mode	CPU	Memory	Panel	SSD	eMMC	Battery	WLAN+BT	CCD	WWAN	Adapter	Main Board	Pen	Docking	Adapter (Suppor Unit)
1	Intel i3-8145U 2.1GHz	8GB + 8GB DDR 3 2133MHz	AUO B133HAN05.E	Samsung MZNLN128HAHQ-000H1 (128GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9I	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Chicony(hp) TPN-CA06	Inventec 6050A3074401	Wacom ESP-221B-19A-5	N/A	N/A
2	Intel i5-8265U 1.6GHz	8GB + 16GB DDR 3 2133MHz	AUO B133ZAN02.A	Samsung MZVLB256HAHQ-000H1 (256GB)	Samsung KLMBG2JETD-B041 (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Luxvision 8BF118N2	Fibocom L860-GL	Chicony(hp) TPN-CA10	Inventec 6050A3074401	N/A	N/A	N/A
3	Intel i5-8365U 1.6GHz	16GB + 16GB DDR 3 2133MHz	INX N133HCG-GF3	Samsung MZNLN256HAJQ-000H7 (256GB)	SanDisk SDINBDA4-32G-V (32GB)	Simplo (hp) HSTNN-IB8Y	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
4	Intel i7-8565U 1.8GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Samsung MZVLB512HAJQ-000H1 (512GB)	Kingston EMMC32G-TB29 (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Artesyn (hp) TPN-TA02	Inventec 6050A3074401	N/A	N/A	N/A
5	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	LG LP133WF9-SPA1	Samsung MZVLB512HAJQ-000H7 (512GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Lite-on (hp) TPN-LA12	Inventec 6050A3074401	N/A	N/A	N/A
6	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Samsung MZVLB1T0HALR-000H1 (1TB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
7	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Samsung MZVLB2T0HMLB-000H1 (2TB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
8	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	SanDisk SD9SN8W-128G-1006 (128GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
9	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	SanDisk SD9TN8W-256G-1006 (256GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
10	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Toshiba KXG60ZNV256G (256GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
11	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Toshiba KBG30ZMV256G (256GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
12	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Toshiba KXG60ZNV512G (512GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
13	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Toshiba KBG30ZMV512G (512GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
14	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Toshiba KXG5AZNV512G (512GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
15	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Toshiba KXG60ZNV1T02 (1TB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
16	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Toshiba KXG50PNV2T04 (2TB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
17	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Intel SSDPEKNW512G8H (512GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
18	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Intel HBRPEKNX0202AH (512GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
19	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Micron MTFDDAV256TBN-1AR15ABHA (256GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
20	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Micron MTFDDAV512TBN-1AR15FCHA (512GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
21	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Western Digital SDAPNTW-256G-1006 (256GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
22	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Western Digital SDAPNUW-256G-1006 (256GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
23	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Western Digital SDAPNTW-512G-1006 (512GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A

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Mode	CPU	Memory	Panel	SSD	eMMC	Battery	WLAN+BT	CCD	WWAN	Adapter	Main Board	Pen	Docking	Adapter (Suppor Unit)
24	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Western Digital SDAPNUW-512G-1006 (512GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
25	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Western Digital SDAQNTW-512G-1006 (512GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
26	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Western Digital SDAPNTW-1T00-1006 (1TB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
27	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Hynix HFM256GDJTNG-8310A (256GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
28	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Hynix HFM512GDJTNG-8310A (512GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
29	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Lite-On CV8-8E128-HP (128GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
30	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Kingston RBU-SNS8350DES3/128GP (128GB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	N/A	N/A
31	Intel i7-8665U 1.9GHz	16GB + 16GB DDR 3 2133MHz	IVO M133NVFC	Western Digital SDAPNTW-1T00-1006 (1TB)	Hynix H26M62002JPR (32GB)	Dynapack (hp) HSTNN-DB9J	Intel AX200D2WL	Chicony CKFIH5121004330LH	Fibocom L850-GL	Acbel(hp) TPN-AA03	Inventec 6050A3074401	N/A	HP HSN-IX01	Delta(hp) TPN-DA12

1.4 The worst case of the EUT

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

Worst Case	
CE	**Mode 26, 31 (3840 x 2160 Resolution)**
RE	**Mode 26, 31 (3840 x 2160 Resolution)**

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1.5 Description of Support Units

Mode 26:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
Micro SD 2G	Transcend	N/A	N/A
SIM Card	VIBO	N/A	N/A
Earphone	APPLE	N/A	N/A
HDD	WD	WDBPGC5000ABK-PESN	WX21E54FA361
USB type C to USB	HP	KSC0003	N/A
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

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Mode 31:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	DELL	P2815QF	CV-0WJJGR-72872-4A7-A1GM
LCD Monitor	ASUS	MX27U	N/A
Micro SD 2G	Transcend	N/A	N/A
Earphone	APPLE	N/A	N/A
Earphone	Lenovo	GS-4021M	57Y4488
USB type C to USB	APPLE	N/A	N/A
USB type C to USB	APPLE	N/A	N/A
USB type C to USB	APPLE	N/A	N/A
USB type C to USB	APPLE	N/A	N/A
Mouse	Lenovo	MO28UOL	4403475
HDD	WD	WDBPGC5007ABK-PESN	WX91A744F4NL
HDD	WD	WDBPGC5006ABK-PESN	WX21E54RD766
HDD	WD	WDBPGC5005ABK-PESN	WXD1E849K9YF
HDD	WD	WDBPGC5004ABK-PESN	WXB1AA4EEJ9P
HDD	HP	pd 500a	WXQ1AC0R1874
HDD	HP	pd 500a	WXP1AC0V2458
Notebook PC (Remote)	HP	Pavilion dv6	CNF9491GLJ
Wireless AP (Remote)	D-Link	DIR-868L	R3X81D7000137
Docking	HP	HSN-IX01	N/A
Universal Radio Communication (Remote)	R&S	CMW 500	N/A
GPS simulator (Remote)	IFR	GPS-101	N/A
SIM Card	VIBO	N/A	N/A

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Support Equipment Used in Tested Cable

Mode 26:

Cable Type	Core	Length	Shielding/Non-shielding
DC Cable (1)	N/A	1.8m	Shielding
HDMI Cable (2)	N/A	1.8m	Shielding
Earphone Cable (3)	N/A	1.0m	Non-Shielding
USB type C to USB Cable (4)	N/A	0.1m	Shielding
USB HDD Cable (5)	N/A	0.6m	Shielding
USB Mouse Cable (6)	N/A	1.8m	Shielding
LAN Cable (7)	N/A	10m	Non-Shielding

Mode 31:

Cable Type	Core	Length	Shielding/Non-shielding
Display Cable (1)	N/A	1.8m	Shielding
HDMI Cable (2)	N/A	1.8m	Shielding
DC Cable (3)	N/A	1.8m	Shielding
Earphone Cable (4)*2	N/A	1.0m	Non-Shielding
USB type C to USB Cable (5)*4	N/A	0.1m	Shielding
USB Mouse Cable (6)	N/A	1.8m	Shielding
USB HDD Cable (7)*6	N/A	0.6m	Shielding
LAN Cable (8)	N/A	10m	Non-Shielding

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1.6 Operation Procedure

Mode 26, 31:

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 RF signal source and sustained action.
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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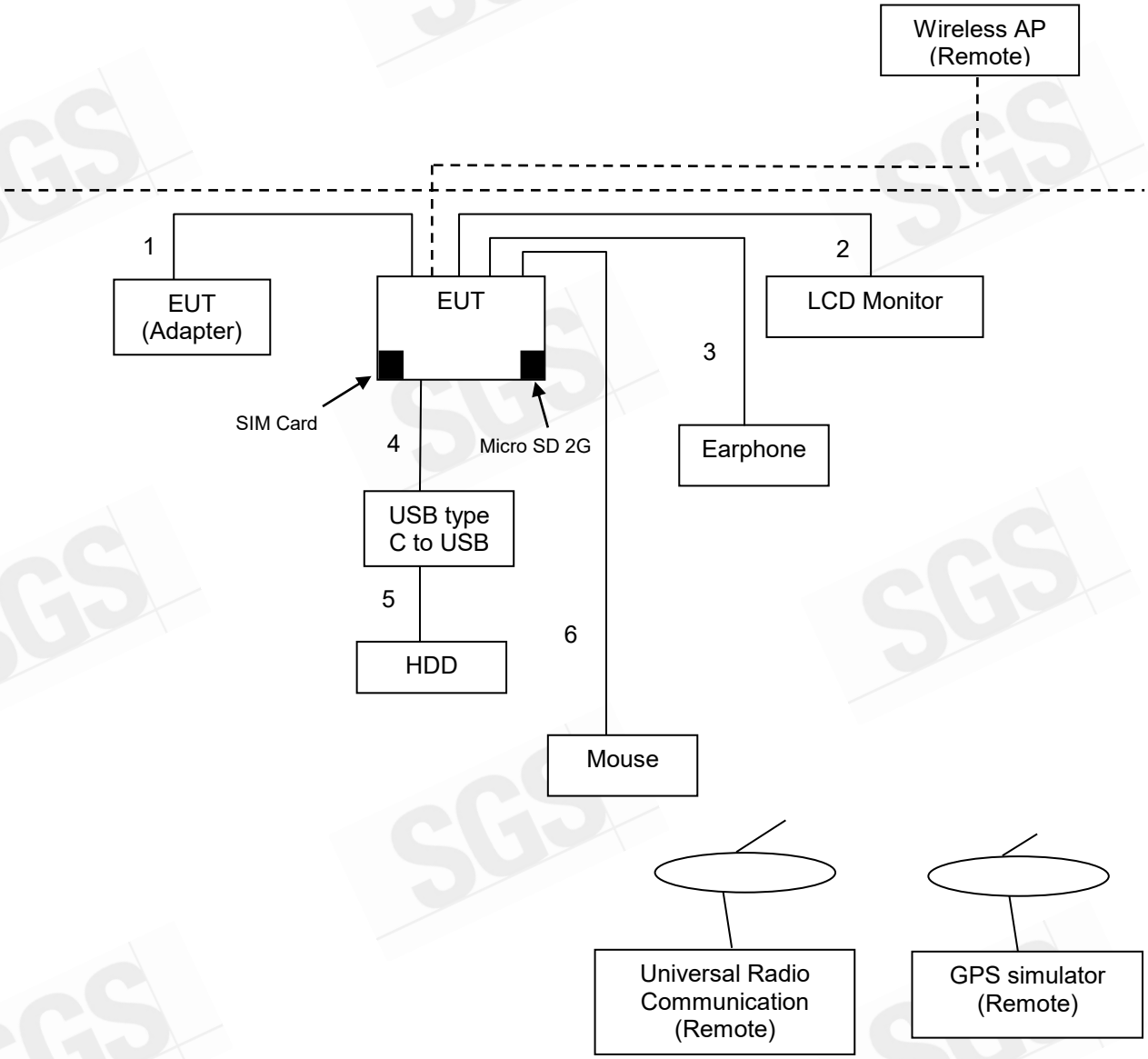
1.8 Test Set-Up Configuration

Mode 26



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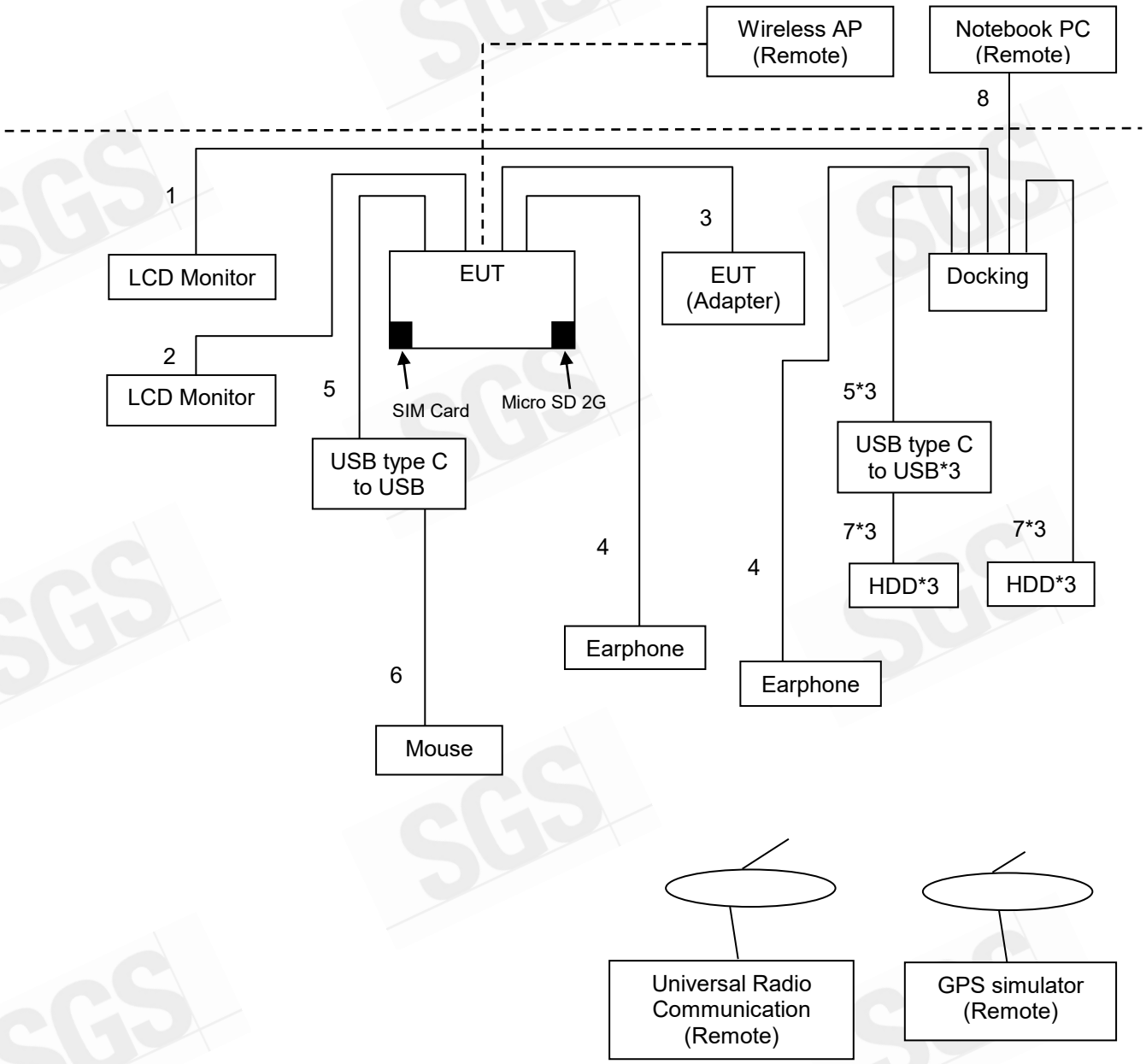
Mode 31



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

Highest Emission		
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

Conducted_Emission Conducted Room No.B_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	EMCI	CFD300-NL	CE2	04/30/2019	04/29/2020
EMI Test Receiver	R&S	ESCI	101073	07/17/2018	07/16/2019
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					

2.4.2 Operating Environment

Temperature : 24 degree C Humidity : 50%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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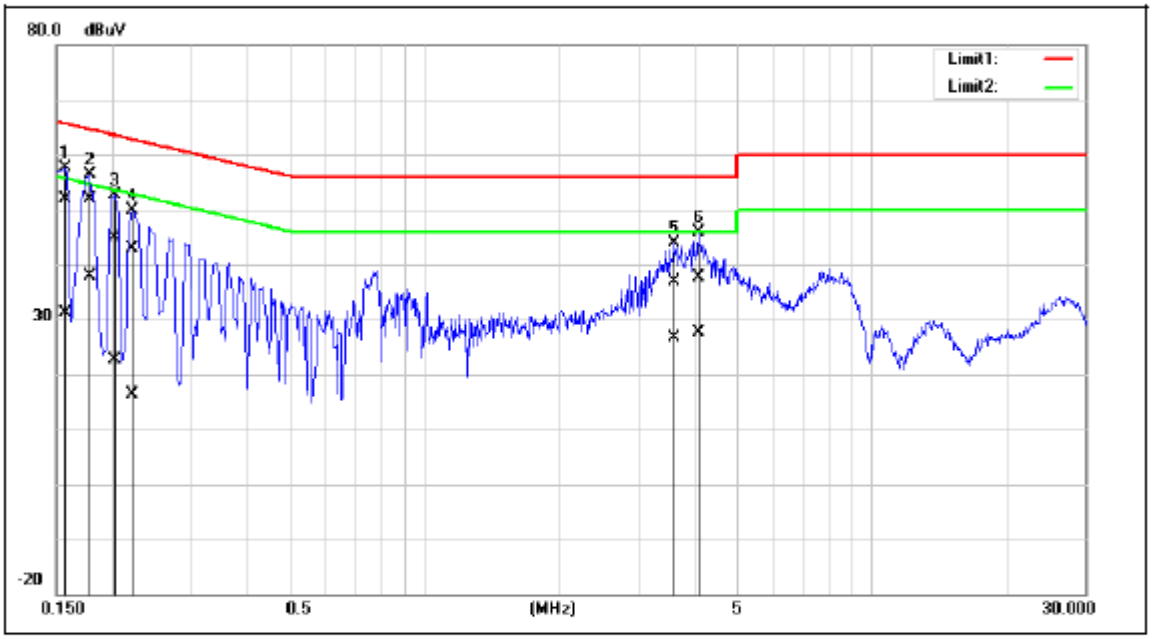
2.4.4 Measurement Data:

Model No.: HSN-I32C

Mode_26_L

Test site:	10M Conduction	Date:	2019/5/30
Standard:	FCC Part 15 B Class B(QP)	Time:	17:49:01
Test item:	Conduction test	Temp.(℃)/Hum.(%):	24(℃)/50%
Mode:	26	Test Voltage:	AC 120V/60Hz
Description:			



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1580	42.14	21.37	9.76	51.90	31.13	65.56	55.57	-13.66	-24.44	Pass
2*	0.1780	42.17	28.20	9.76	51.93	37.96	64.57	54.58	-12.64	-16.62	Pass
3	0.2020	35.24	12.88	9.76	45.00	22.64	63.52	53.53	-18.52	-30.89	Pass
4	0.2220	33.18	6.64	9.76	42.94	16.40	62.74	52.74	-19.80	-36.34	Pass
5	3.6100	27.18	16.71	9.82	37.00	26.53	56.00	46.00	-19.00	-19.47	Pass
6	4.1100	27.82	17.81	9.82	37.64	27.63	56.00	46.00	-18.36	-18.37	Pass

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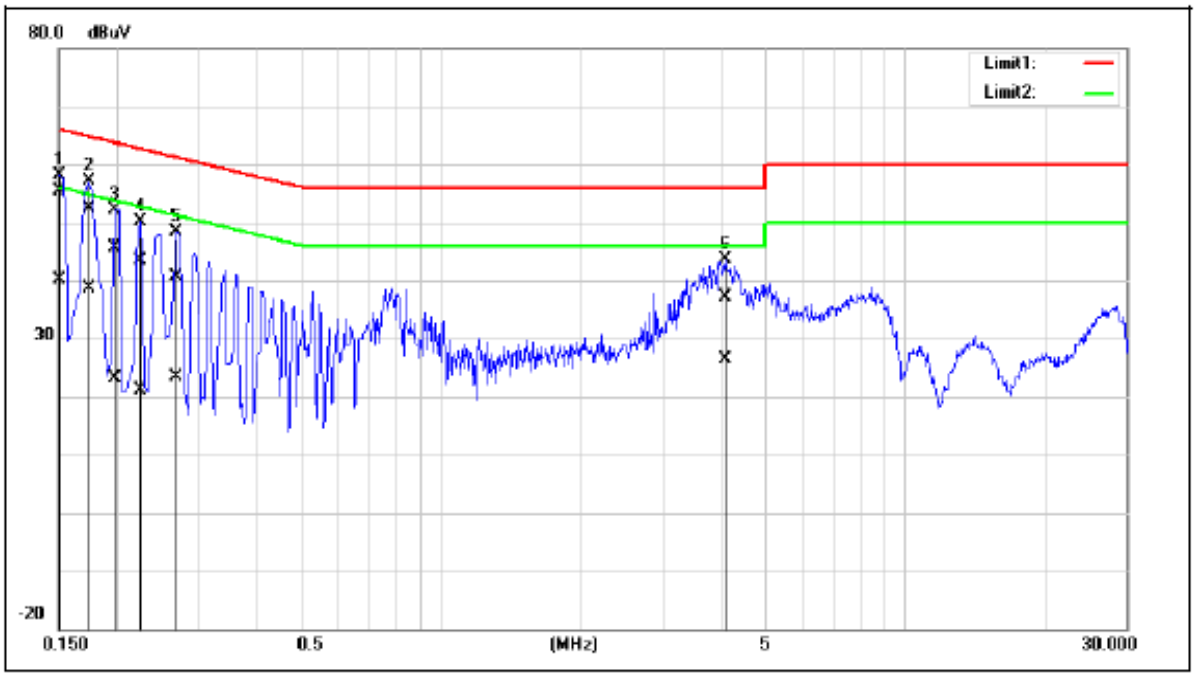
Mode_26_N

Test site:	10M Conduction	Date:	2019/5/30
Standard:	FCC Part 15 B Class B(QP)	Time:	17:51:21
Test item:	Conduction test	Temp.(℃)/Hum.(%):	24(℃)/50%
Mode:	26	Test Voltage:	AC 120V/60Hz
Description:			



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	45.67	30.26	9.80	55.47	40.06	65.99	56.00	-10.52	-15.94	Pass
2	0.1740	42.59	28.75	9.79	52.38	38.54	64.76	54.77	-12.38	-16.23	Pass
3	0.1980	35.87	13.40	9.79	45.66	23.19	63.69	53.69	-18.03	-30.50	Pass
4	0.2260	33.70	11.34	9.79	43.49	21.13	62.59	52.60	-19.10	-31.47	Pass
5	0.2700	30.80	13.70	9.79	40.59	23.49	61.12	51.12	-20.53	-27.63	Pass
6	4.1260	27.20	16.58	9.86	37.06	26.44	56.00	46.00	-18.94	-19.56	Pass

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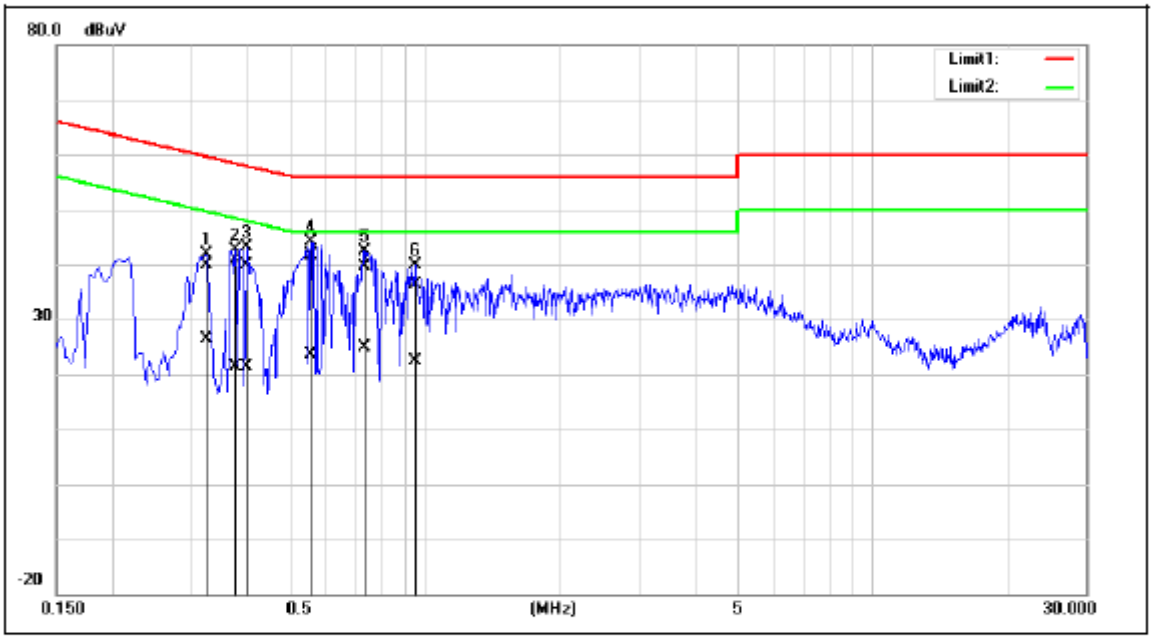
Mode_31_L

Test site:	10M Conduction	Date:	2019/5/30
Standard:	FCC Part 15 B Class B(QP)	Time:	21:00:32
Test item:	Conduction test	Temp.(℃)/Hum.(%):	24(℃)/50%
Mode:	31	Test Voltage:	AC 120V/60Hz
Description:			



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.3260	30.23	16.69	9.76	39.99	26.45	59.55	49.55	-19.56	-23.10	Pass
2	0.3780	31.12	11.54	9.76	40.88	21.30	58.32	48.32	-17.44	-27.02	Pass
3	0.3980	30.07	11.56	9.76	39.83	21.32	57.89	47.90	-18.06	-26.58	Pass
4*	0.5580	31.85	13.96	9.76	41.61	23.72	56.00	46.00	-14.39	-22.28	Pass
5	0.7340	29.79	15.13	9.78	39.57	24.91	56.00	46.00	-16.43	-21.09	Pass
6	0.9500	26.52	12.48	9.78	36.30	22.26	56.00	46.00	-19.70	-23.74	Pass

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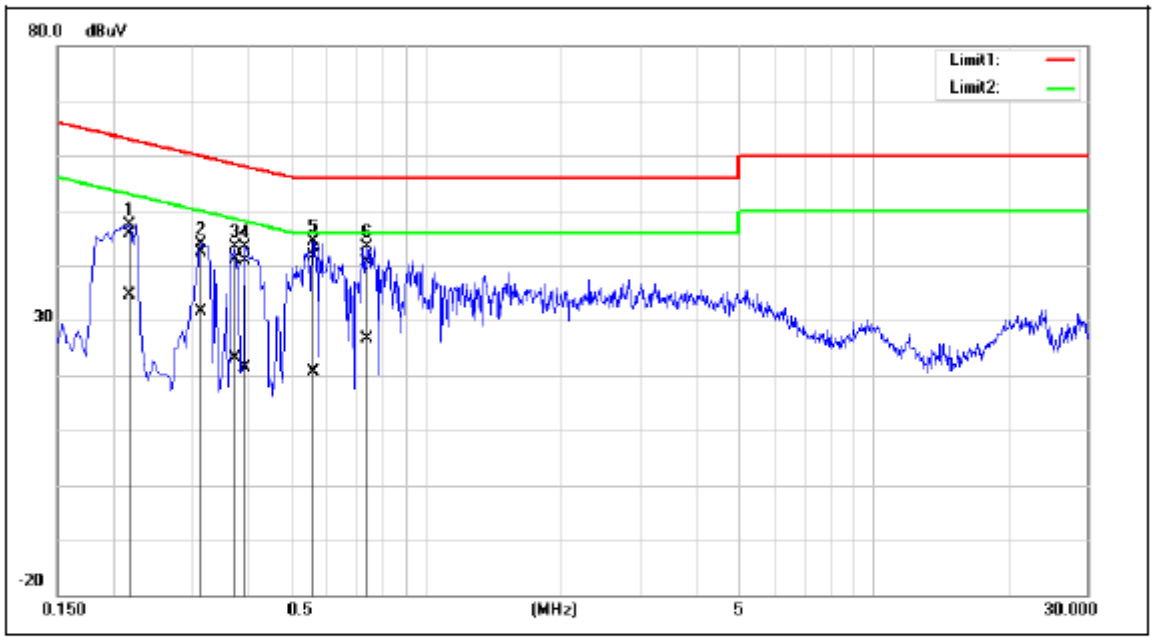
Mode_31_N

Test site:	10M Conduction	Date:	2019/5/30
Standard:	FCC Part 15 B Class B(QP)	Time:	21:02:27
Test item:	Conduction test	Temp.(℃)/Hum.(%):	24(℃)/50%
Mode:	31	Test Voltage:	AC 120V/60Hz
Description:			



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.2180	36.16	24.92	9.79	45.95	34.71	62.89	52.89	-16.94	-18.18	Pass
2	0.3140	32.69	21.75	9.80	42.49	31.55	59.86	49.86	-17.37	-18.31	Pass
3	0.3740	31.44	13.38	9.80	41.24	23.18	58.41	48.41	-17.17	-25.23	Pass
4	0.3940	31.01	11.57	9.80	40.81	21.37	57.98	47.98	-17.17	-26.61	Pass
5*	0.5620	31.91	10.83	9.80	41.71	20.63	56.00	46.00	-14.29	-25.37	Pass
6	0.7420	30.92	16.82	9.82	40.74	26.64	56.00	46.00	-15.26	-19.36	Pass

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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	07/04/2018	07/03/2019
EMI Test Receiver	R&S	ESCI	100962	07/10/2018	07/09/2019
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	12/26/2018	12/25/2019
Horn Antenna	EMCO	3117	00055167	12/24/2018	12/23/2019
Pre-Amplifier	EMCI	EMC051845	980040	04/30/2019	04/29/2020
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	06/21/2018	06/20/2019
Spectrum Analyzer	Agilent	E4446A	MY48250297	08/30/2018	08/29/2019
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 5.23 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 : 26 degree C Humidity : 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-I32C

Mode_26_H

Test site:	10M Chamber	Ant.Polar.:	Horizontal
Standard:	FCC Class B 10M Radiation	Test Distance:	10m
Test item:	Radiation Test	Power:	AC 120V/60Hz
Temp.(℃)/Hum.(%RH):	26(℃)/60%RH	Date:2019/5/31	Time:01:35:24
Mode:	26		
Description:			

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)	
1	30.0000	27.03	-3.09	23.94	30.00	-6.06	400	118	QP
2	199.7500	33.97	-10.48	23.49	30.00	-6.51	400	31	QP
3	428.6700	32.33	-2.85	29.48	37.00	-7.52	200	14	QP
4	593.3980	33.06	-0.67	32.39	37.00	-4.61	299	360	QP
5	639.1600	32.21	-0.13	32.08	37.00	-4.92	200	40	QP
6	890.3900	28.99	2.79	31.78	37.00	-5.22	300	173	QP

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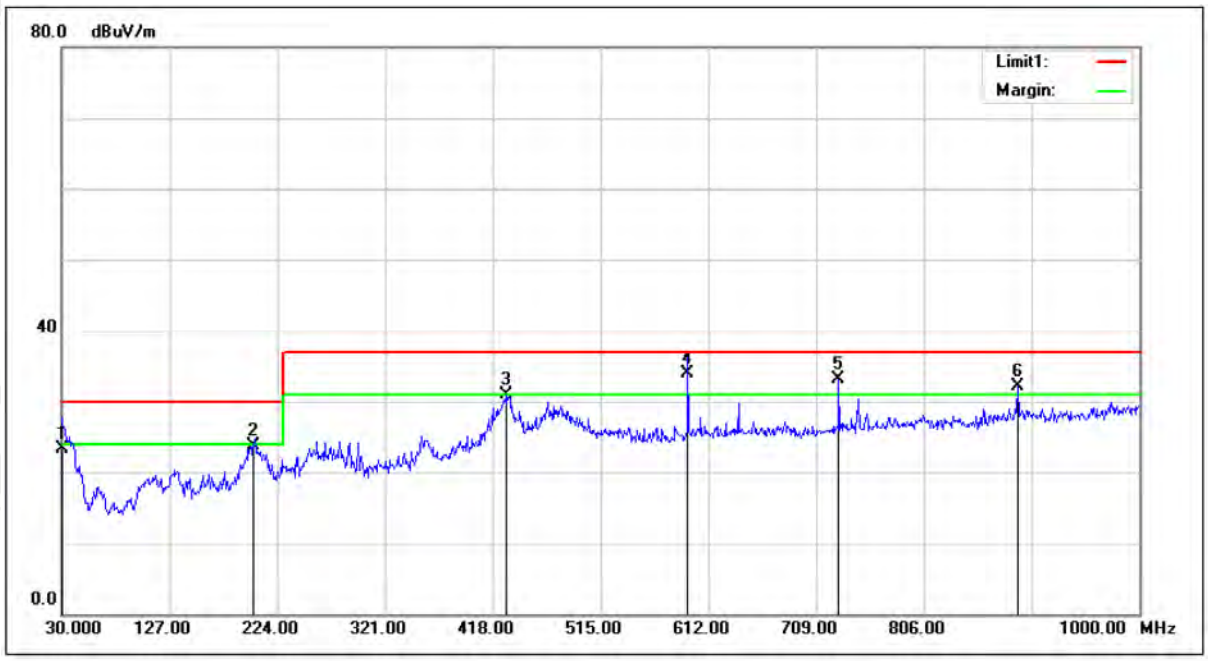
Mode_26_V

Test site:	10M Chamber	Ant.Polar.:	Vertical
Standard:	FCC Class B 10M Radiation	Test Distance:	10m
Test item:	Radiation Test	Power:	AC 120V/60Hz
Temp.(℃)/Hum.(%RH):	26(℃)/60%RH	Date:2019/5/31	Time:01:35:25
Mode:	26		
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.0000	25.60	-2.32	23.28	30.00	-6.72	100	0	QP
2	202.6600	32.74	-9.13	23.61	30.00	-6.39	122	0	QP
3	430.6100	31.78	-0.89	30.89	37.00	-6.11	348	0	QP
4	593.4080	32.65	1.27	33.92	37.00	-3.08	298	170	QP
5	729.3700	30.40	2.76	33.16	37.00	-3.84	199	12	QP
6	890.3900	26.94	5.19	32.13	37.00	-4.87	199	32	QP

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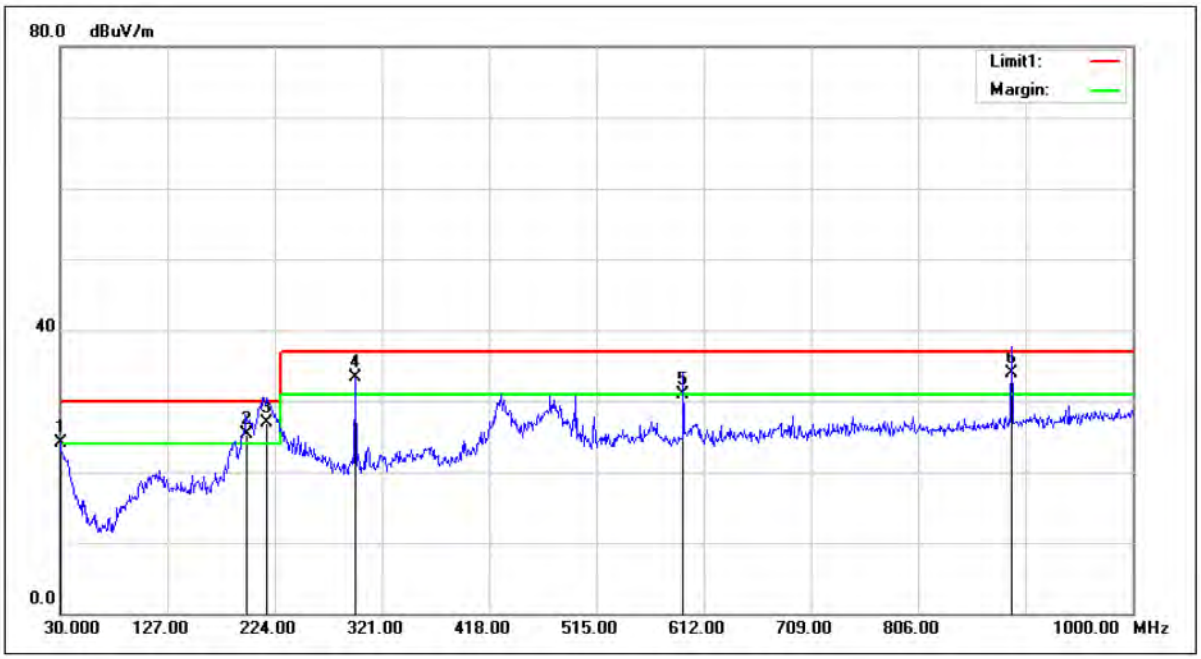
Mode_31_H

Test site:	10M Chamber	Ant.Polar.:	Horizontal
Standard:	FCC Class B 10M Radiation	Test Distance:	10m
Test item:	Radiation Test	Power:	AC 120V/60Hz
Temp.(℃)/Hum.(%RH):	26(℃)/60%RH	Date:2019/5/31	Time:06:03:04
Mode:	31		
Description:			



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)	
1	30.0000	27.16	-3.09	24.07	30.00	-5.93	320	0	QP
2	199.3100	35.71	-10.48	25.23	30.00	-4.77	299	204	QP
3	217.0300	37.12	-10.21	26.91	30.00	-3.09	300	194	QP
4	296.7500	39.01	-5.68	33.33	37.00	-3.67	300	27	QP
5	593.4000	31.67	-0.67	31.00	37.00	-6.00	199	0	QP
6	890.1050	31.19	2.79	33.98	37.00	-3.02	100	64	QP

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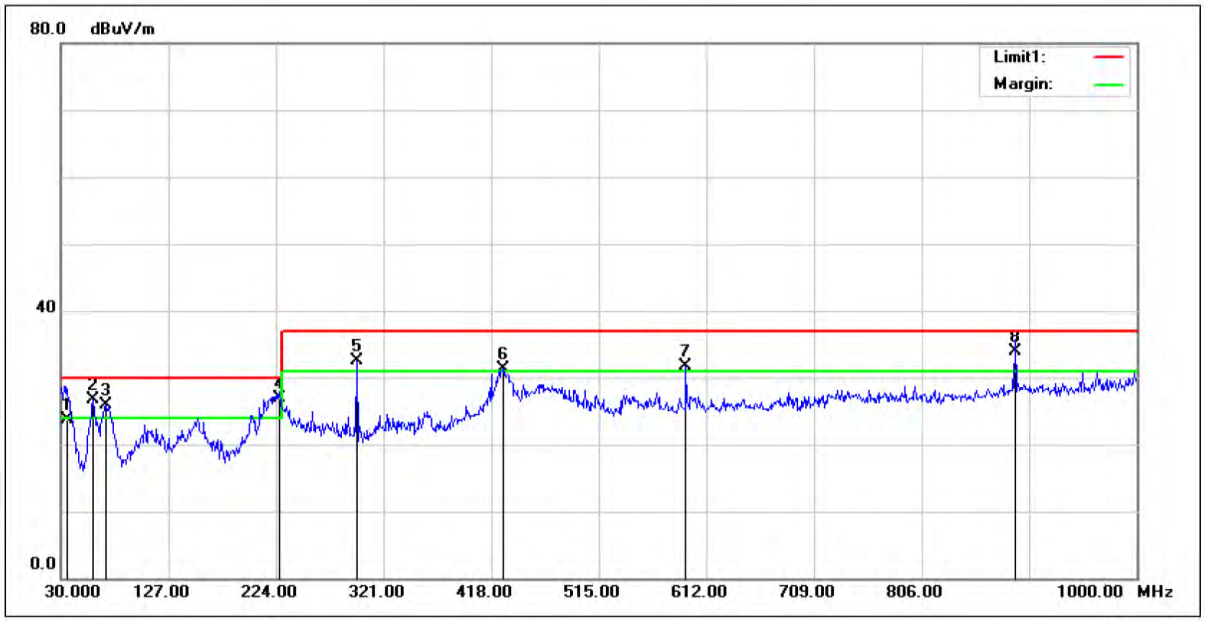
Mode_31_V

Test site:	10M Chamber	Ant.Polar.:	Vertical
Standard:	FCC Class B 10M Radiation	Test Distance:	10m
Test item:	Radiation Test	Power:	AC 120V/60Hz
Temp.(℃)/Hum.(%RH):	26(℃)/60%RH	Date:2019/5/31	Time:06:03:05
Mode:	31		
Description:			



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)	
1	35.2100	28.56	-4.92	23.64	30.00	-6.36	100	141	QP
2	59.1000	40.42	-13.80	26.62	30.00	-3.38	100	291	QP
3	70.7400	39.99	-14.12	25.87	30.00	-4.13	199	314	QP
4	227.2100	35.18	-8.23	26.95	30.00	-3.05	100	164	QP
5	296.7500	37.00	-4.48	32.52	37.00	-4.48	100	128	QP
6	428.6700	32.13	-0.86	31.27	37.00	-5.73	299	359	QP
7	593.5700	30.37	1.27	31.64	37.00	-5.36	298	360	QP
8	890.1160	28.72	5.19	33.91	37.00	-3.09	151	0	QP

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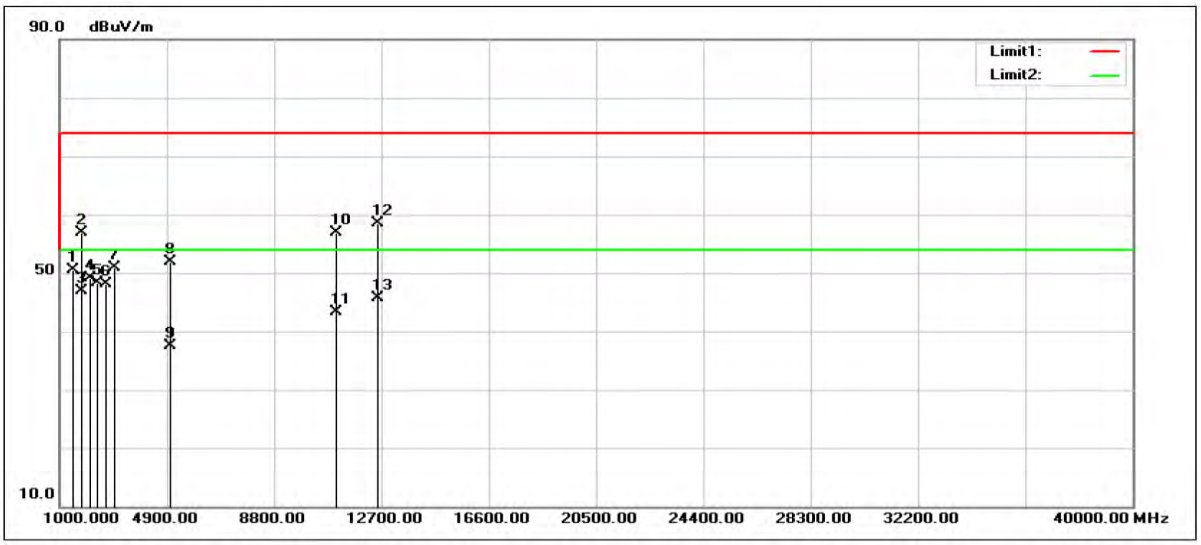
Above 1GHz

Model No.: HSN-I32C

Mode_26_H

Test site:	10M Chamber	Ant.Polar.:	Horizontal
Standard:	FCC Part 15B 3M Class B	Test Distance:	3m
Test item:	Radiation Test	Power:	AC 120V/60Hz
Temp.(℃)/Hum.(%RH):	26(℃)/60%RH	Date:2019/5/31	Time:04:28:32
Mode:	26		
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1484.500	69.08	-18.62	50.46	74.00	-23.54	100	209	peak
2	1782.000	74.05	-17.08	56.97	74.00	-17.03	200	198	peak
3	1782.000	64.06	-17.08	46.98	54.00	-7.02	200	198	AVG
4	2079.500	63.95	-14.80	49.15	74.00	-24.85	100	295	peak
5	2377.000	62.67	-14.30	48.37	74.00	-25.63	100	256	peak
6	2666.000	61.83	-13.65	48.18	74.00	-25.82	200	308	peak
7	2963.500	63.49	-12.64	50.85	74.00	-23.15	240	0	peak
8	4995.000	60.78	-8.78	52.00	74.00	-22.00	100	193	peak
9	4995.000	46.34	-8.78	37.56	54.00	-16.44	100	193	AVG
10	11055.500	53.49	3.32	56.81	74.00	-17.19	300	0	peak
11	11055.500	39.93	3.32	43.25	54.00	-10.75	300	0	AVG
12	12543.000	53.43	5.09	58.52	74.00	-15.48	139	360	peak
13	12543.000	40.65	5.09	45.74	54.00	-8.26	139	360	AVG

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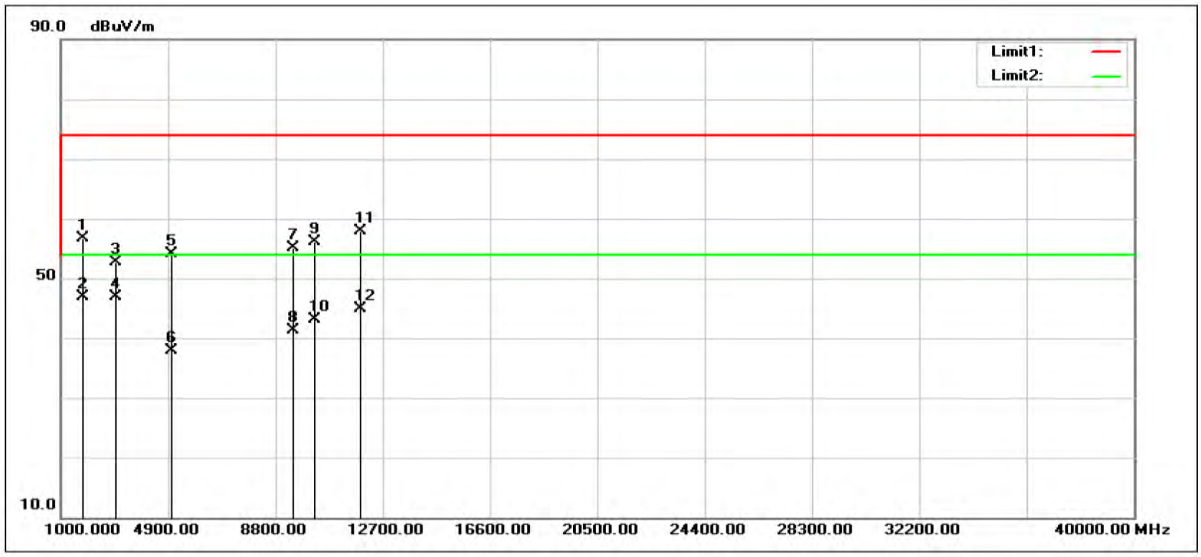
Mode_26_V

Test site:	10M Chamber	Ant.Polar.:	Vertical
Standard:	FCC Part 15B 3M Class B	Test Distance:	3m
Test item:	Radiation Test	Power:	AC 120V/60Hz
Temp.(℃)/Hum.(%RH):	26(℃)/60%RH	Date:2019/5/31	Time:04:45:32
Mode:	26		
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1782.000	73.69	-17.08	56.61	74.00	-17.39	100	205	peak
2	1782.000	64.00	-17.08	46.92	54.00	-7.08	100	205	AVG
3	2963.500	65.27	-12.64	52.63	74.00	-21.37	100	339	peak
4	2963.500	59.59	-12.64	46.95	54.00	-7.05	100	339	AVG
5	4986.500	62.84	-8.80	54.04	74.00	-19.96	100	276	peak
6	4986.500	46.68	-8.80	37.88	54.00	-16.12	100	276	AVG
7	9389.500	55.75	-0.62	55.13	74.00	-18.87	144	0	peak
8	9389.500	41.86	-0.62	41.24	54.00	-12.76	144	0	AVG
9	10171.500	54.79	1.36	56.15	74.00	-17.85	107	0	peak
10	10171.500	41.80	1.36	43.16	54.00	-10.84	107	0	AVG
11	11880.000	53.46	4.50	57.96	74.00	-16.04	300	213	peak
12	11880.000	40.44	4.50	44.94	54.00	-9.06	300	213	AVG

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Mode_31_H

Test site:	10M Chamber	Ant.Polar.:	Horizontal
Standard:	FCC Part 15B 3M Class B	Test Distance:	3m
Test item:	Radiation Test	Power:	AC 120V/60Hz
Temp.(℃)/Hum.(%RH):	26(℃)/60%RH	Date:2019/5/31	Time:07:50:33
Mode:	31		
Description:			

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1782.000	72.47	-17.08	55.39	74.00	-18.61	100	194	peak
2	1782.000	63.91	-17.08	46.83	54.00	-7.17	100	194	AVG
3	2377.000	65.32	-14.30	51.02	74.00	-22.98	100	226	peak
4	2377.000	61.29	-14.30	46.99	54.00	-7.01	100	226	AVG
5	2963.500	62.94	-12.64	50.30	74.00	-23.70	200	323	peak
6	10188.500	54.54	1.38	55.92	74.00	-18.08	219	0	peak
7	10188.500	41.81	1.38	43.19	54.00	-10.81	219	0	AVG
8	11140.500	52.88	3.39	56.27	74.00	-17.73	300	248	peak
9	11140.500	40.25	3.39	43.64	54.00	-10.36	300	248	AVG
10	11922.500	53.75	4.52	58.27	74.00	-15.73	300	177	peak
11	11922.500	40.31	4.52	44.83	54.00	-9.17	300	177	AVG

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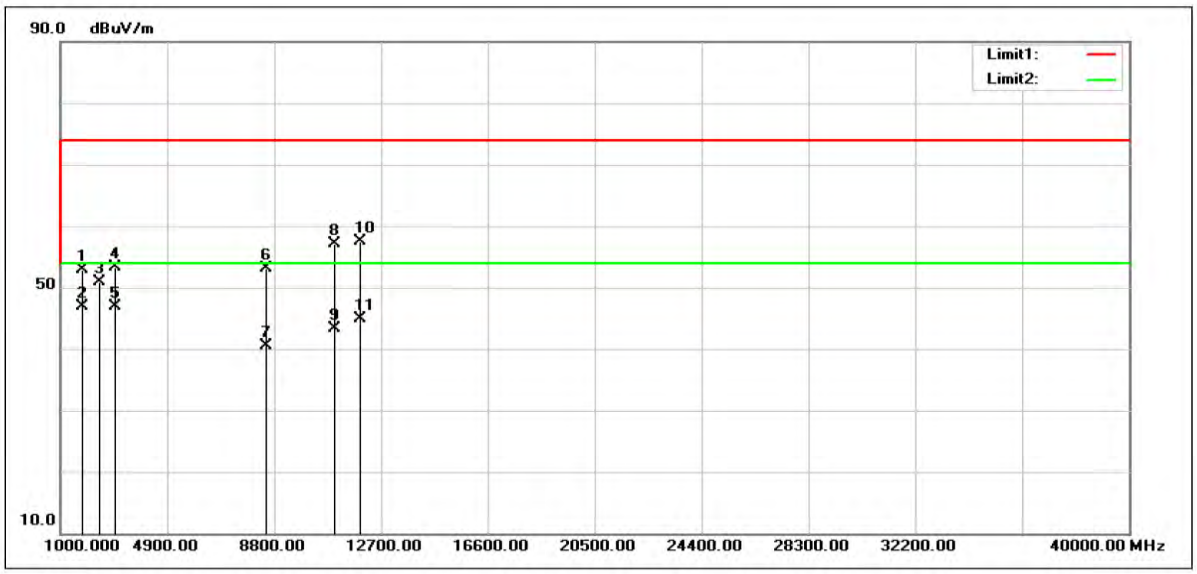
Mode_31_V

Test site:	10M Chamber	Ant.Polar.:	Vertical
Standard:	FCC Part 15B 3M Class B	Test Distance:	3m
Test item:	Radiation Test	Power:	AC 120V/60Hz
Temp.(℃)/Hum.(%RH):	26(℃)/60%RH	Date:2019/5/31	Time:08:07:25
Mode:	31		
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1782.000	70.05	-17.08	52.97	74.00	-21.03	100	310	peak
2	1782.000	64.01	-17.08	46.93	54.00	-7.07	100	310	AVG
3	2377.000	65.19	-14.30	50.89	74.00	-23.11	128	360	peak
4	2963.500	66.02	-12.64	53.38	74.00	-20.62	100	3	peak
5	2963.500	59.62	-12.64	46.98	54.00	-7.02	100	3	AVG
6	8471.500	56.06	-2.96	53.10	74.00	-20.90	165	360	peak
7	8471.500	43.41	-2.96	40.45	54.00	-13.55	165	360	AVG
8	10979.000	53.89	3.23	57.12	74.00	-16.88	100	359	peak
9	10979.000	40.16	3.23	43.39	54.00	-10.61	100	359	AVG
10	11888.500	53.01	4.51	57.52	74.00	-16.48	123	360	peak
11	11888.500	40.34	4.51	44.85	54.00	-9.15	123	360	AVG

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-I32C

Mode_26_+

Mode_26_-

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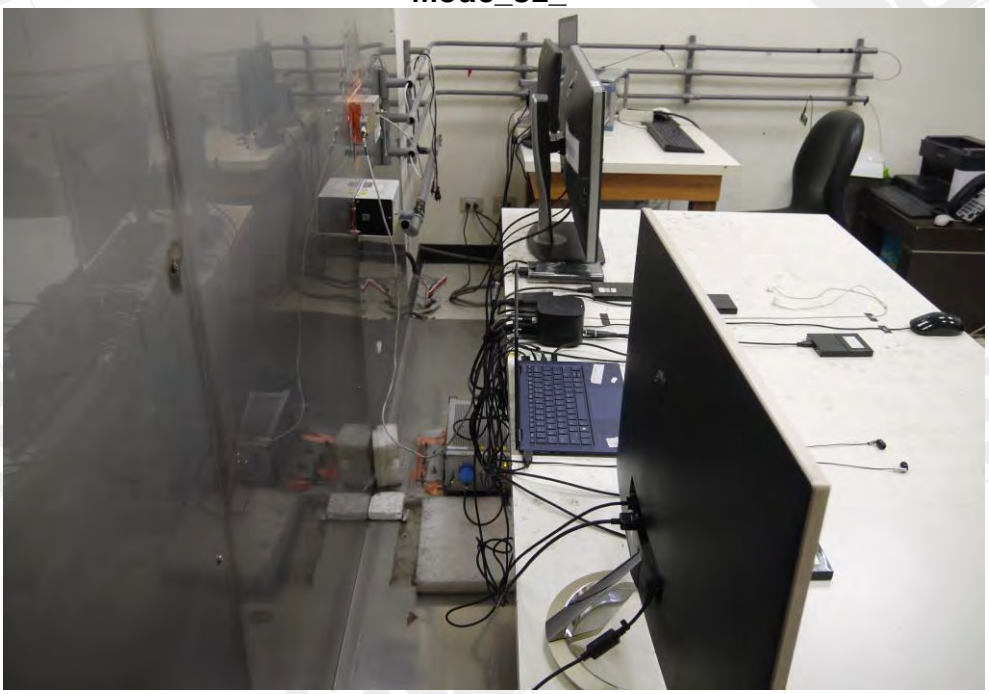
Model No.: HSN-I32C

Mode_31_+

Mode_31_-



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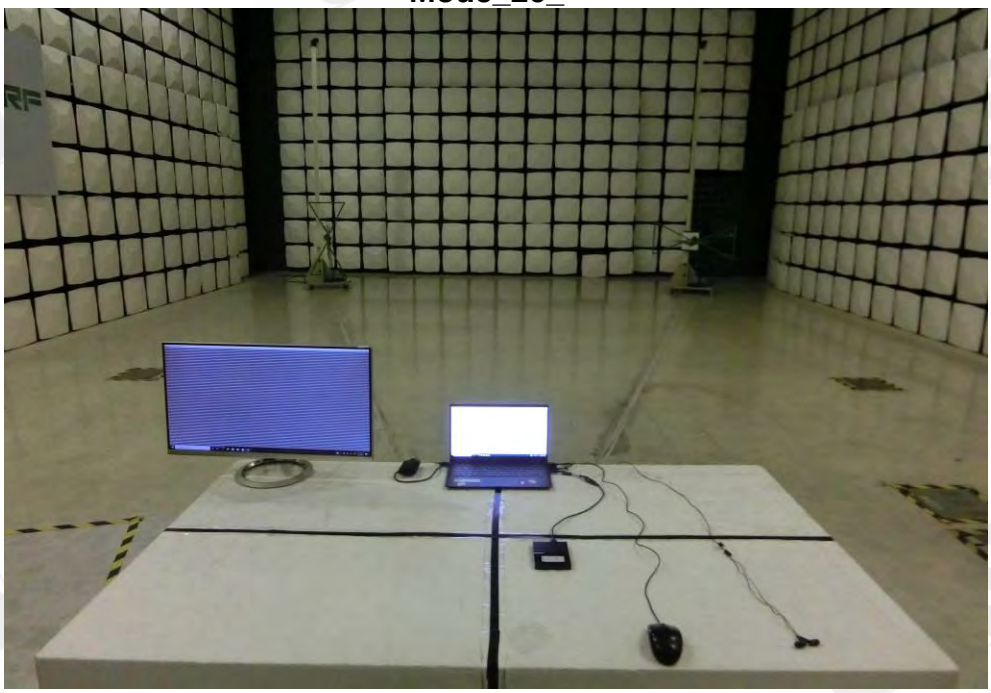
RE Testing Set-up

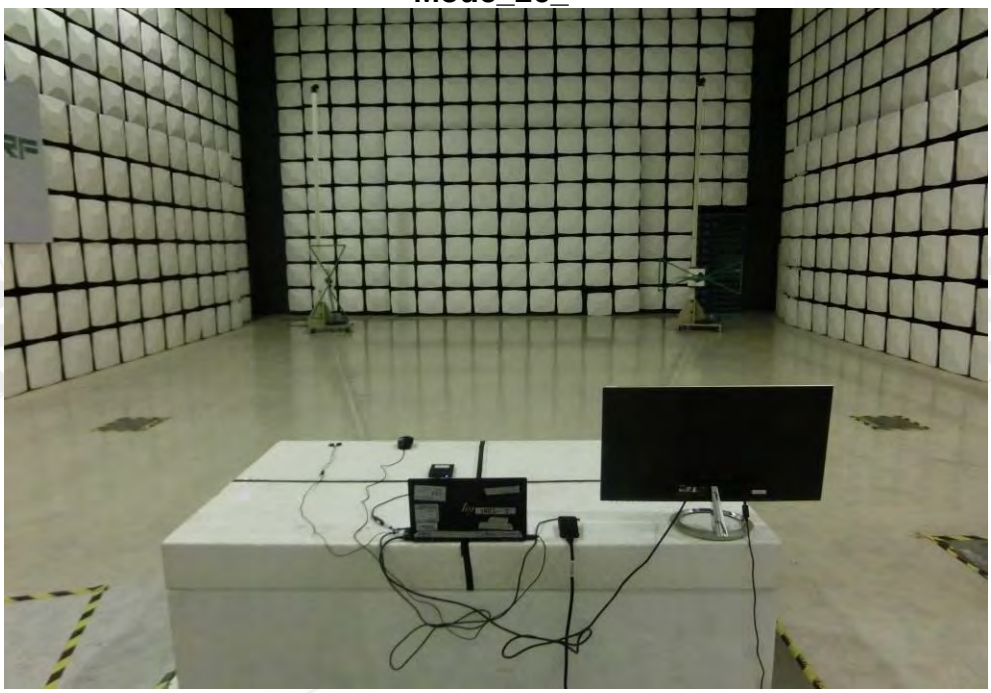
Below 1GHz

Model No.: HSN-I32C

Mode_26_+



Mode_26_-



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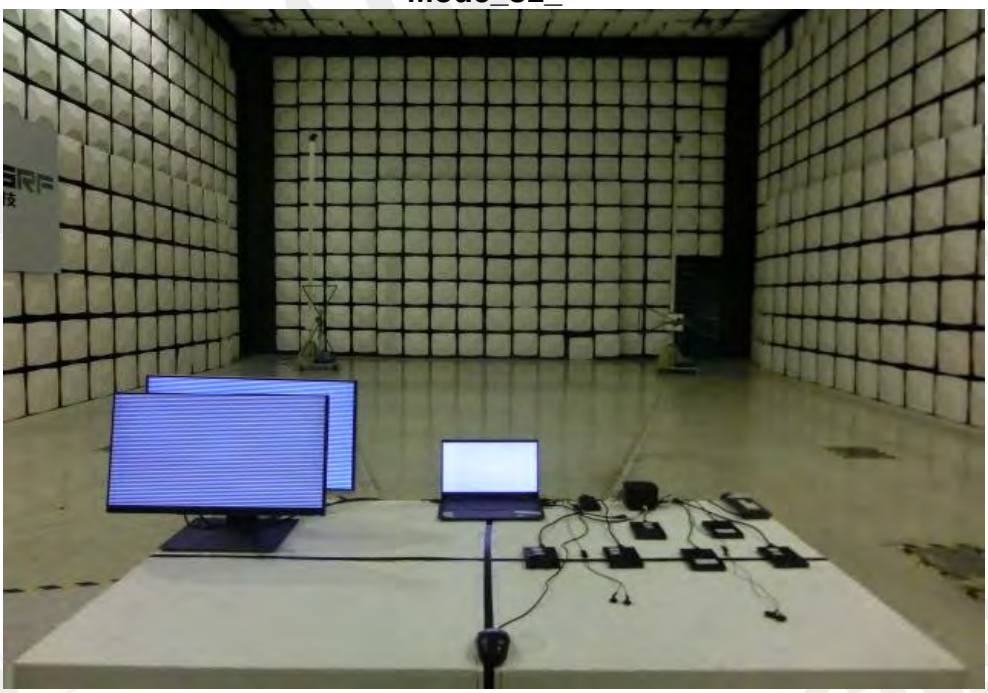
Model No.: HSN-I32C

Mode_31_+



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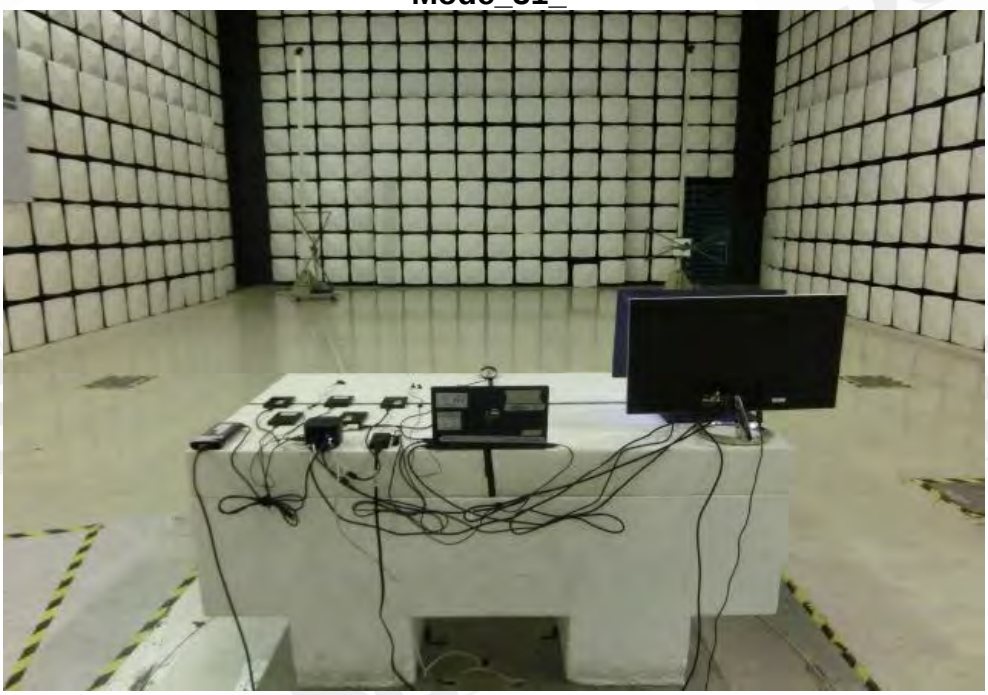

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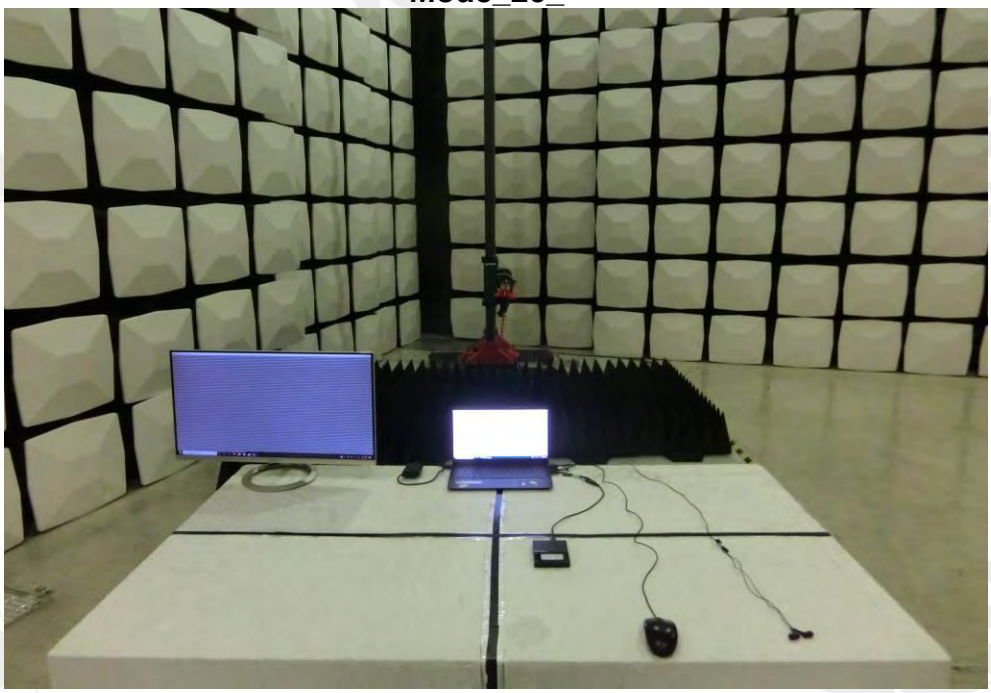
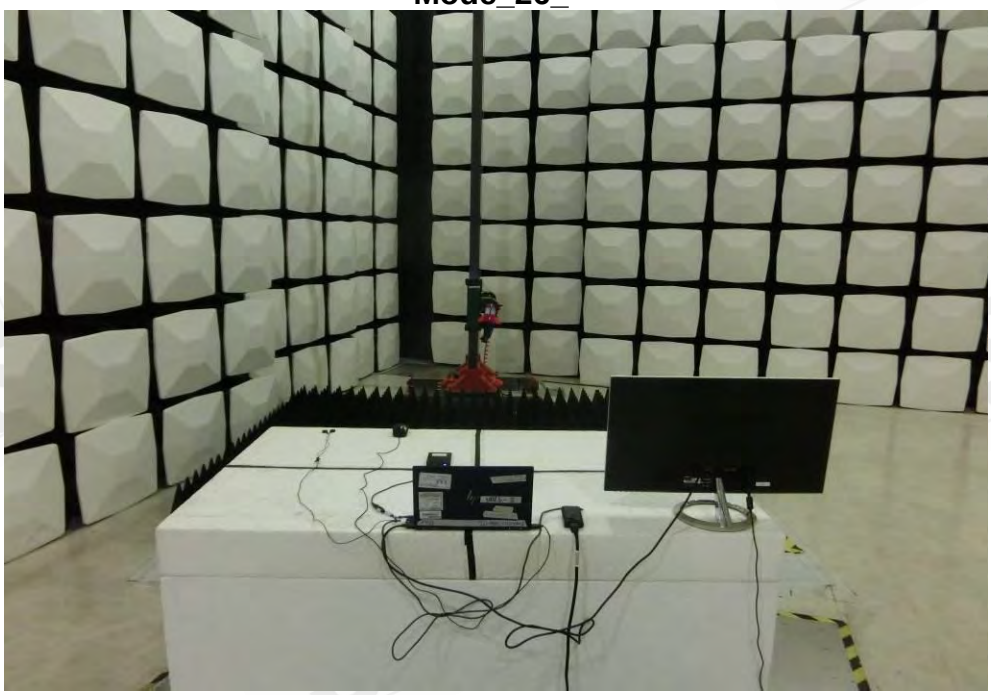
Above 1GHz

Model No.: HSN-I32C

Mode_26_+



Mode_26_-



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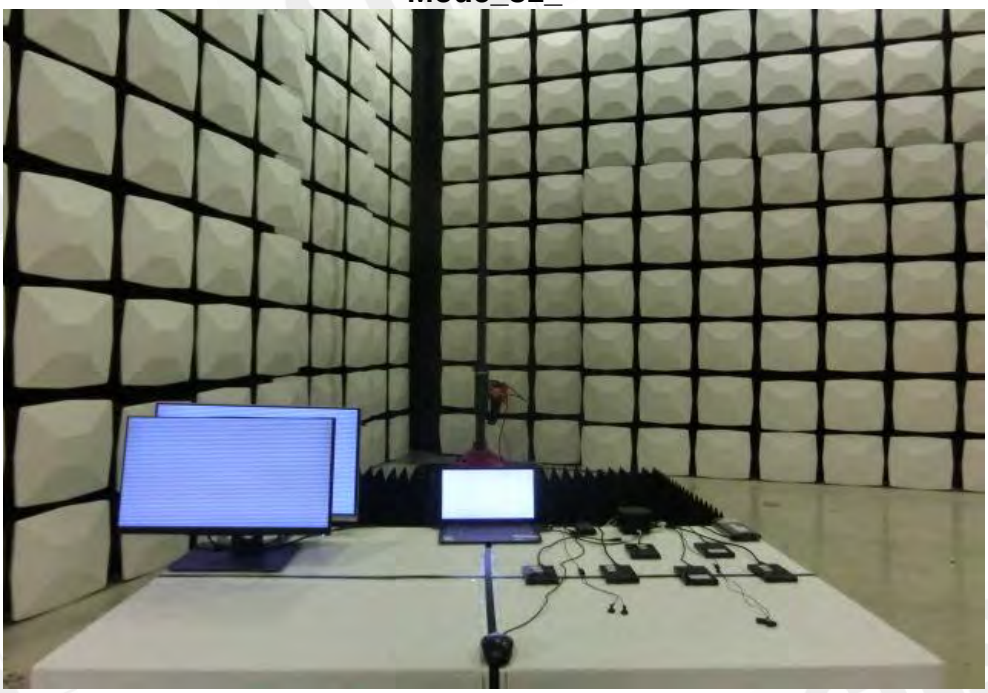
Model No.: HSN-I32C

Mode_31_+



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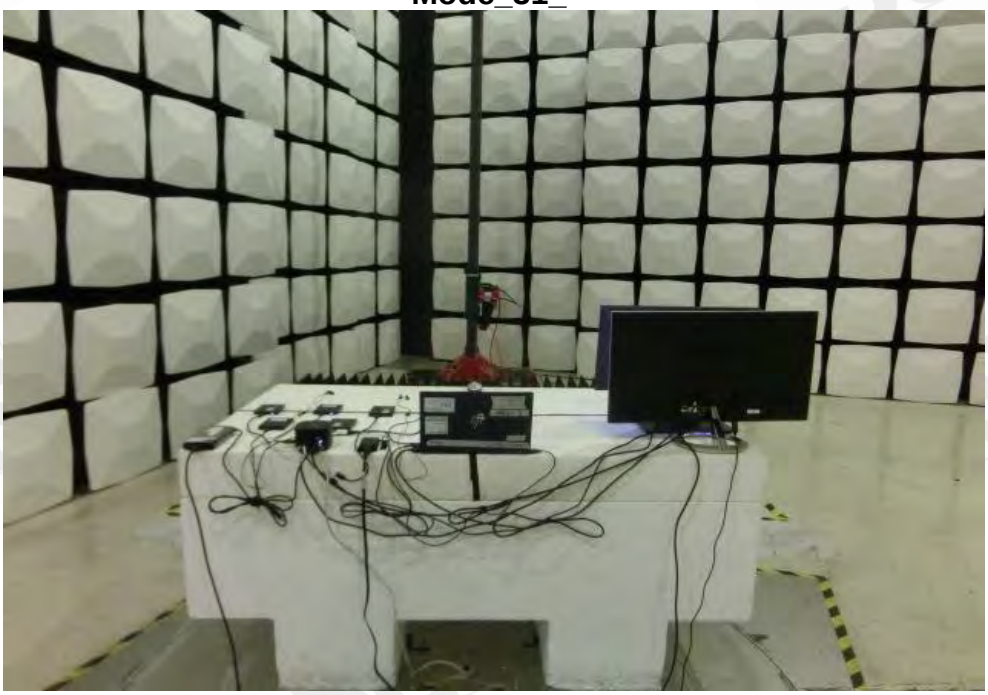

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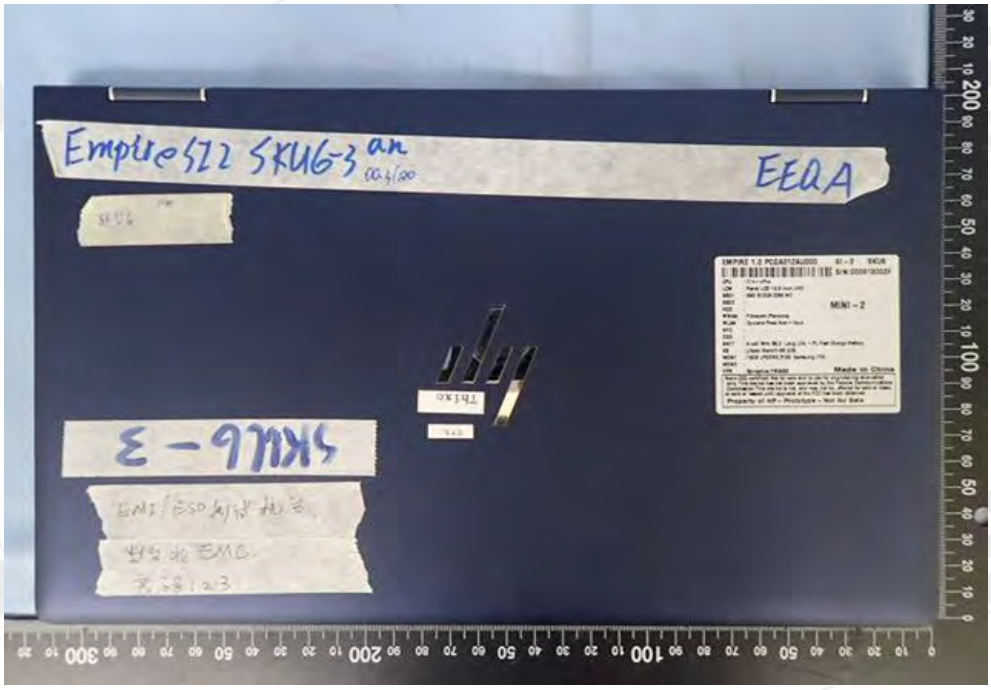
4. Photographs of Product

Exterior

Model No.: HSN-I32C



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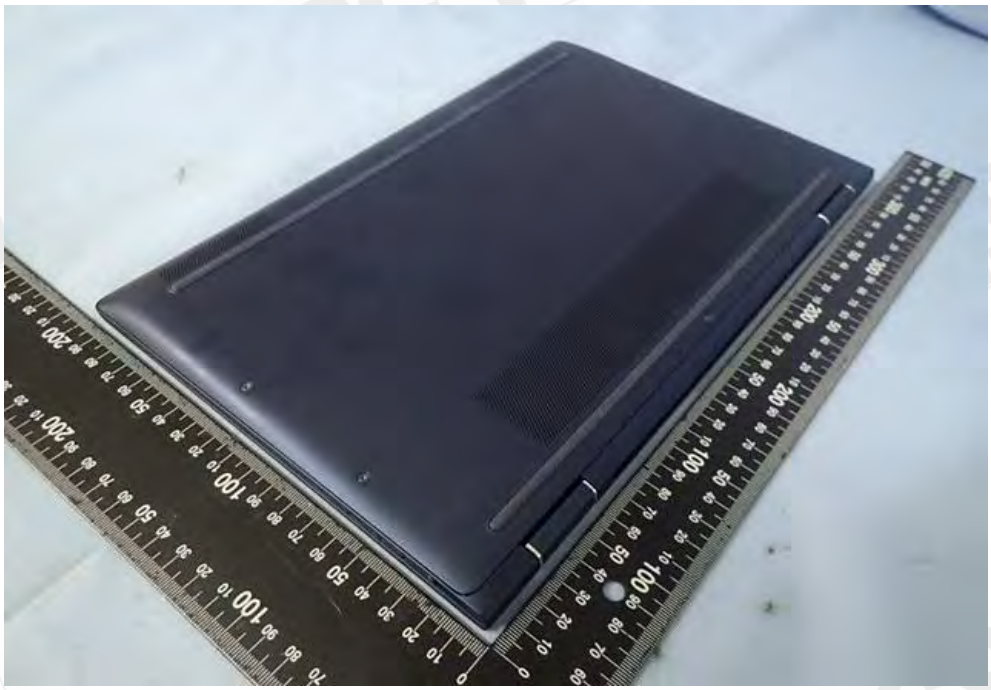

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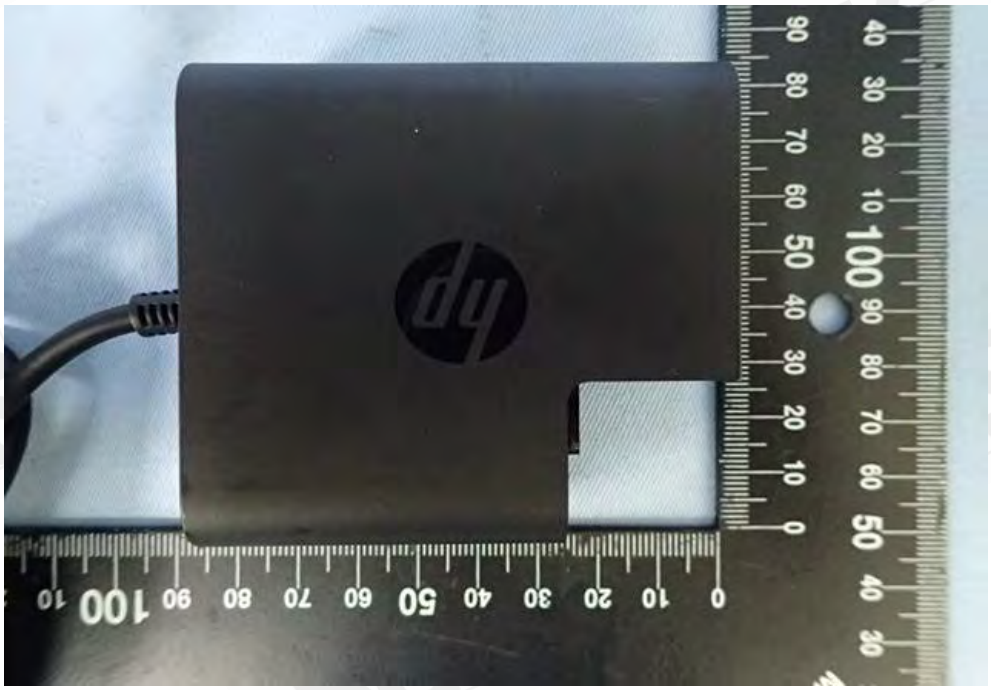
Adapter Model No.: TPN-CA06



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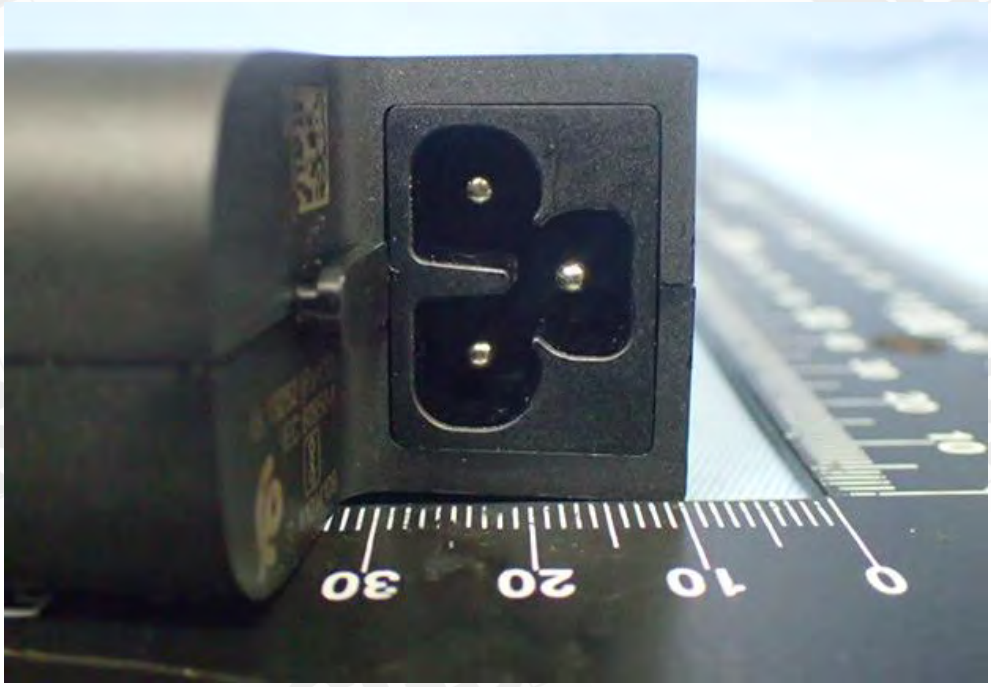

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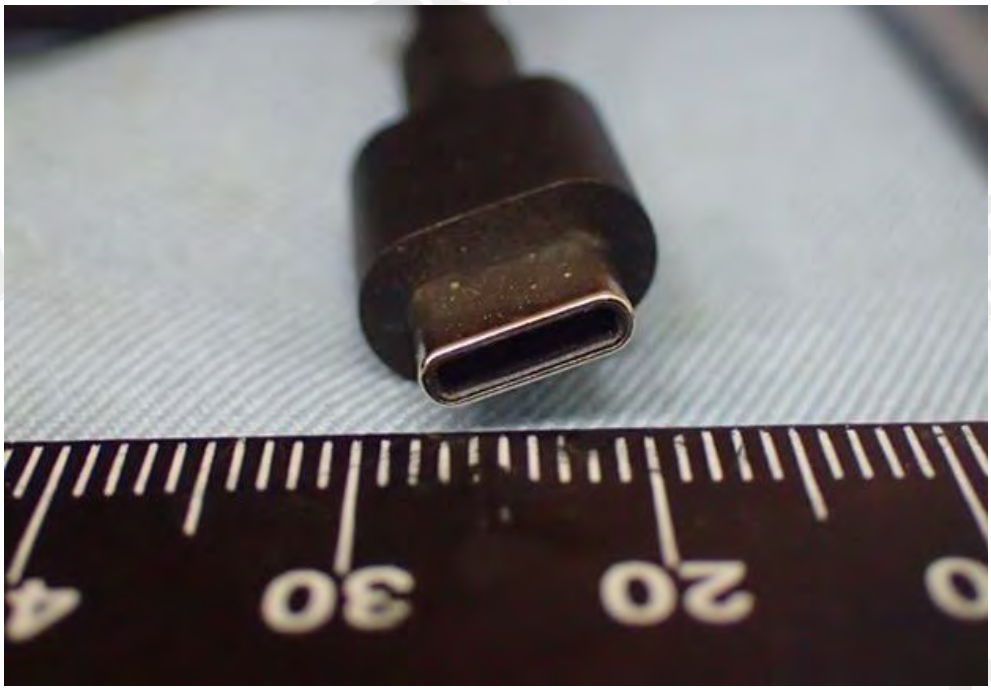

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Adapter Model No.: TPN-CA10

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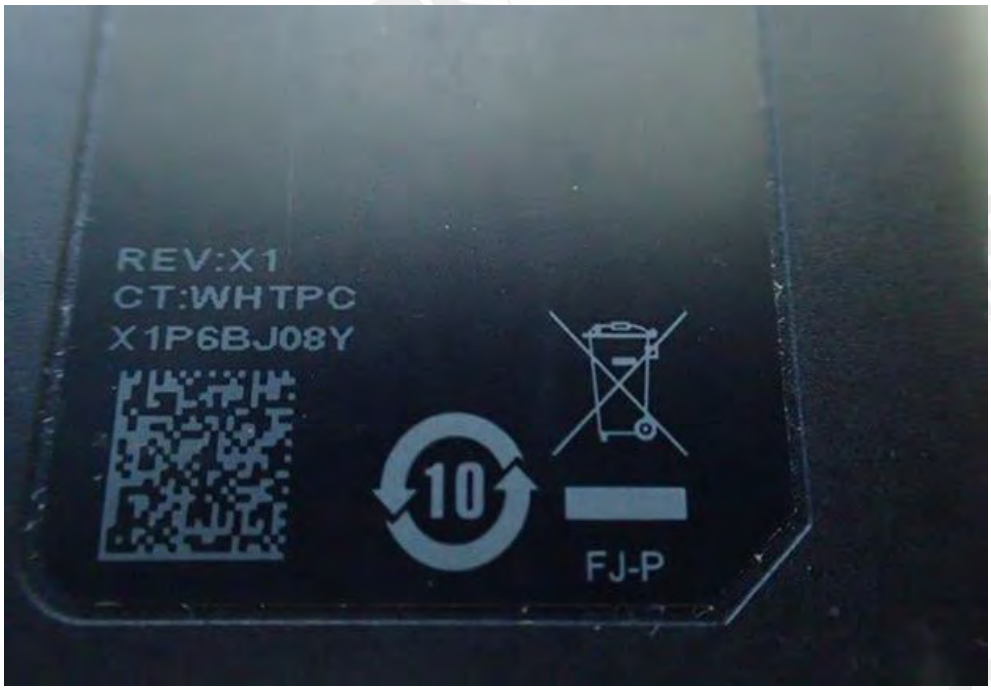

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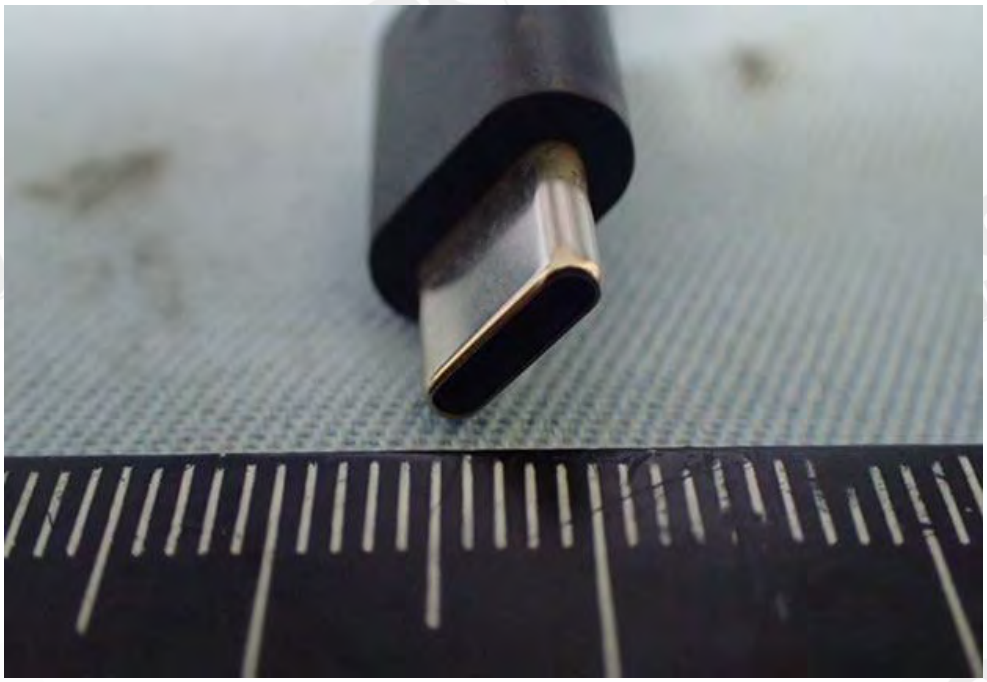

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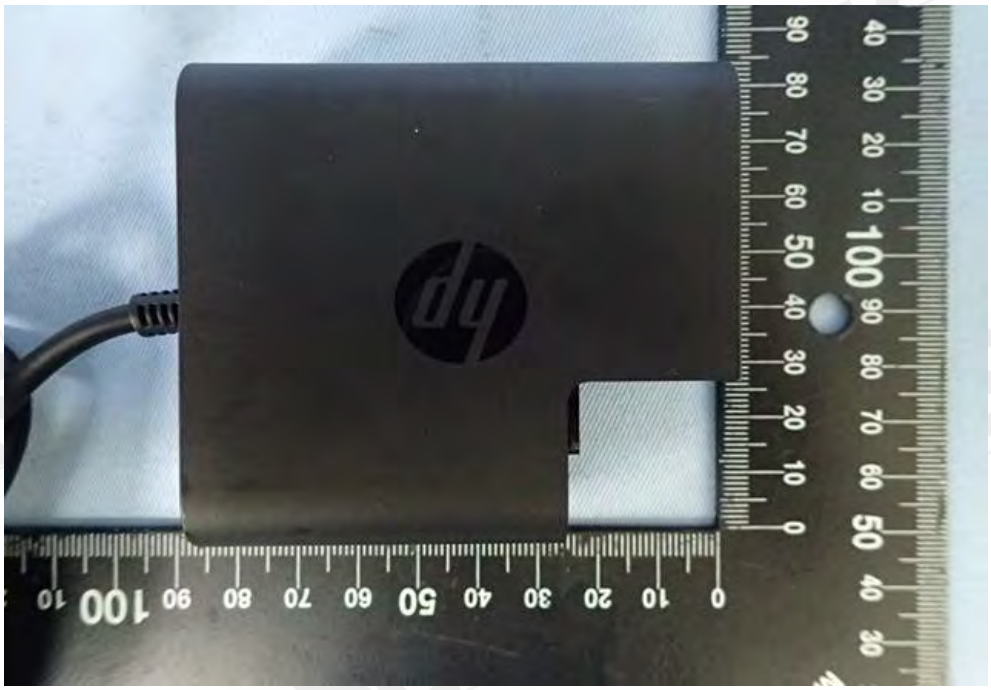
Adapter Model No.: TPN-AA03



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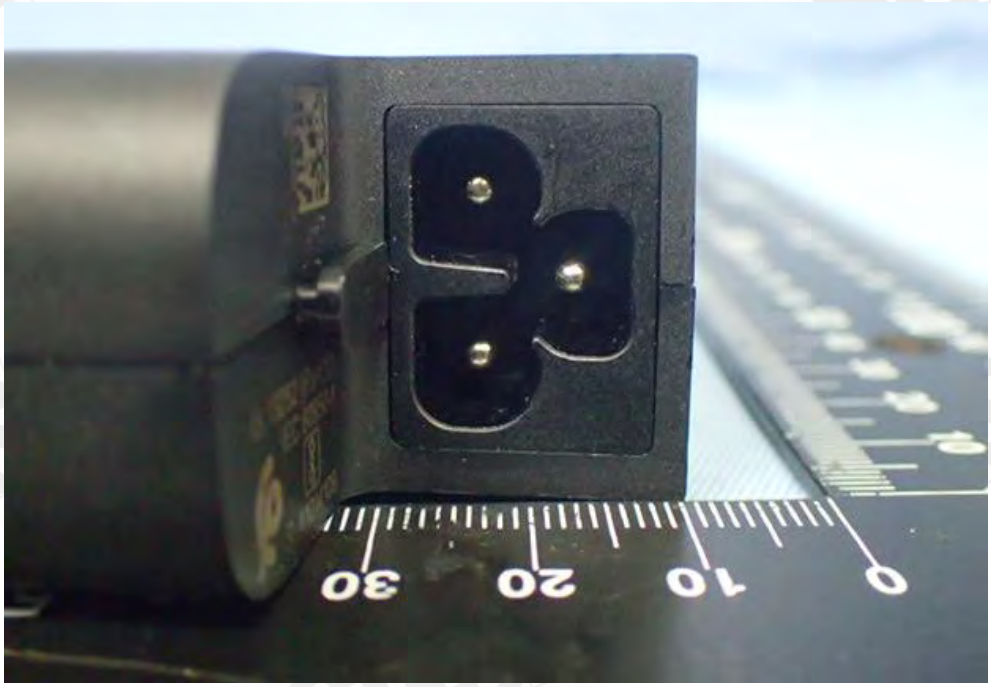

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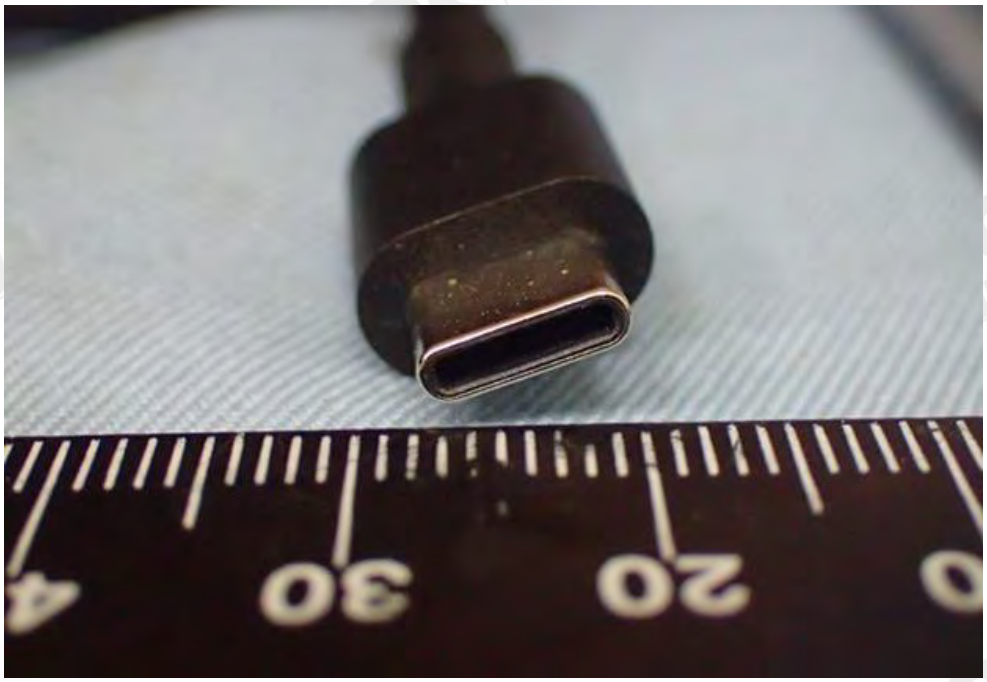

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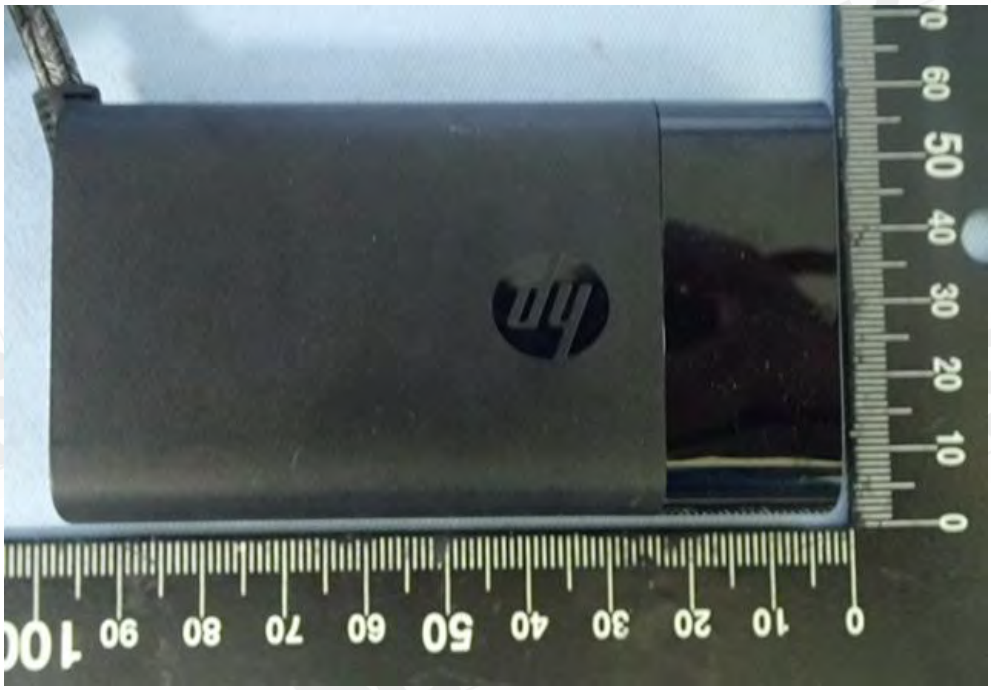
Adapter Model No.: TPN-TA02



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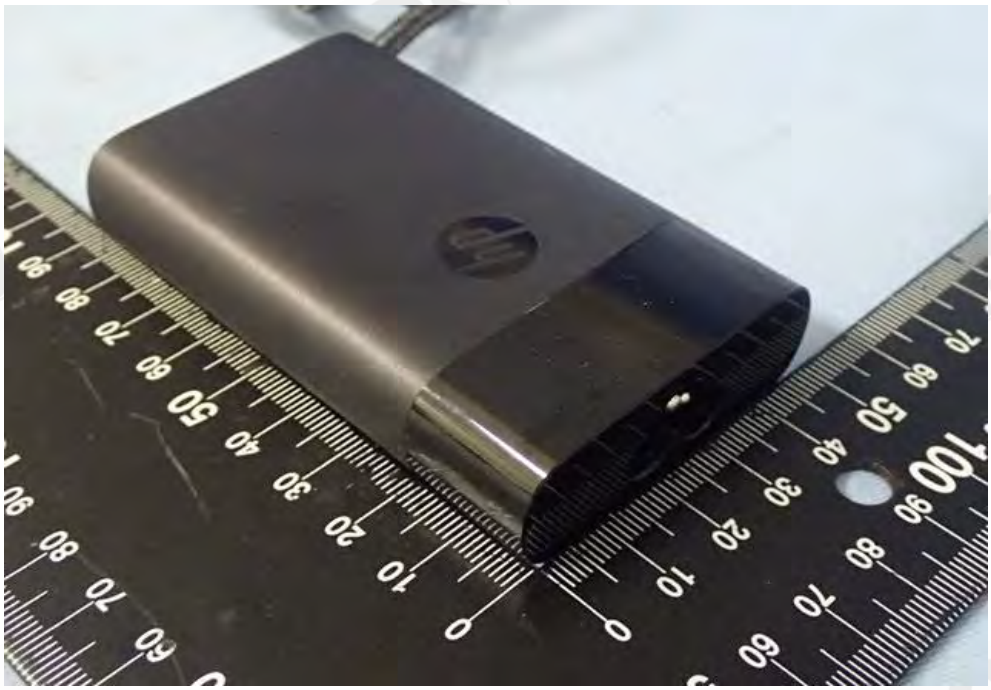

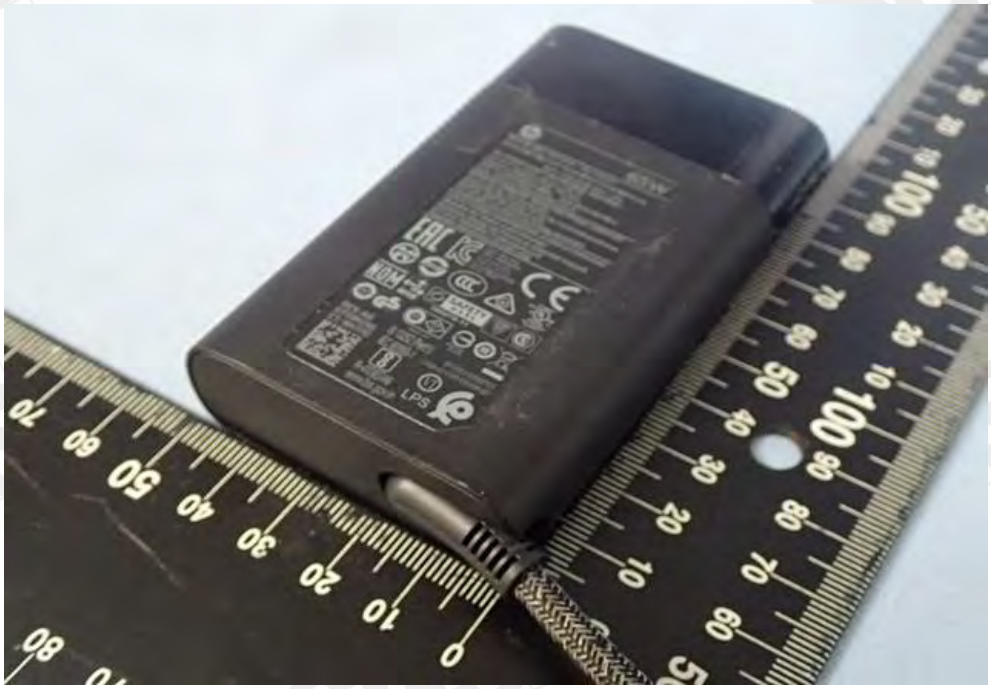

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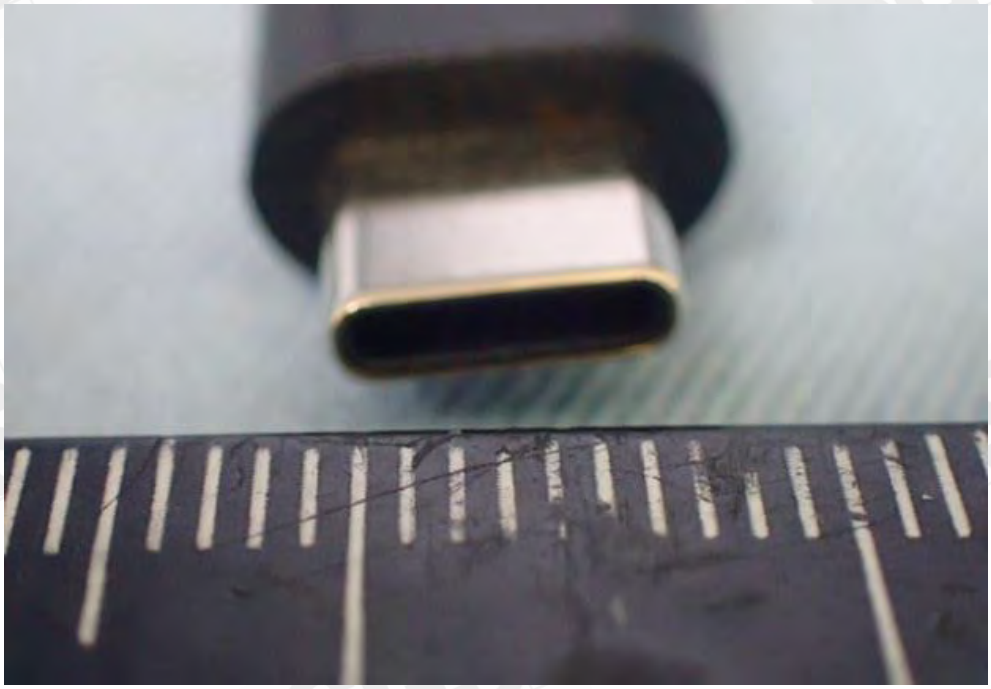

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Adapter Model No.: TPN-LA12

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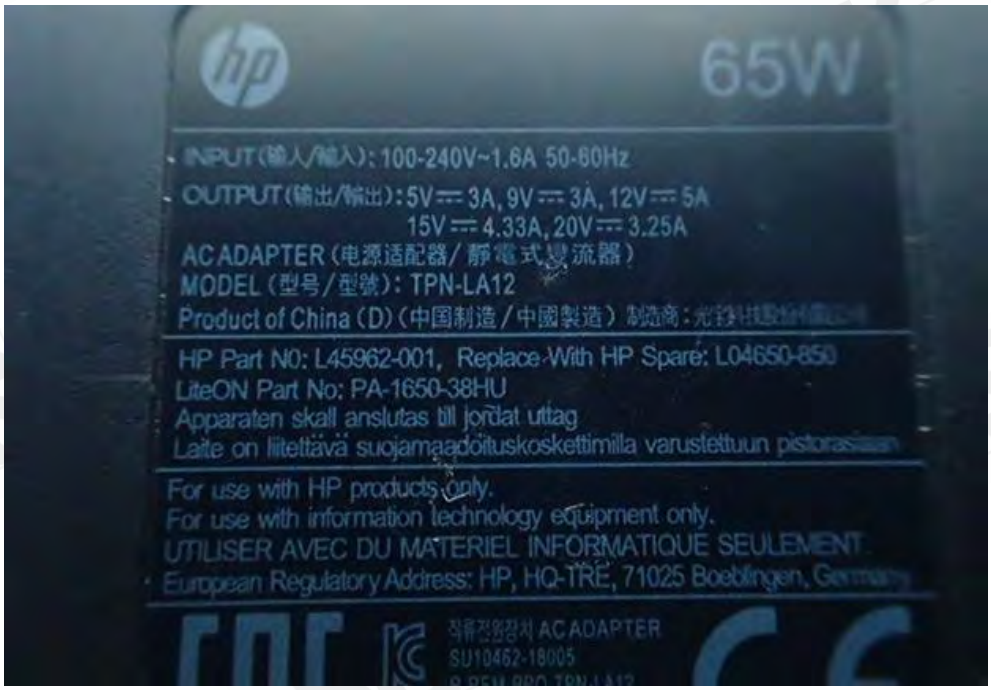

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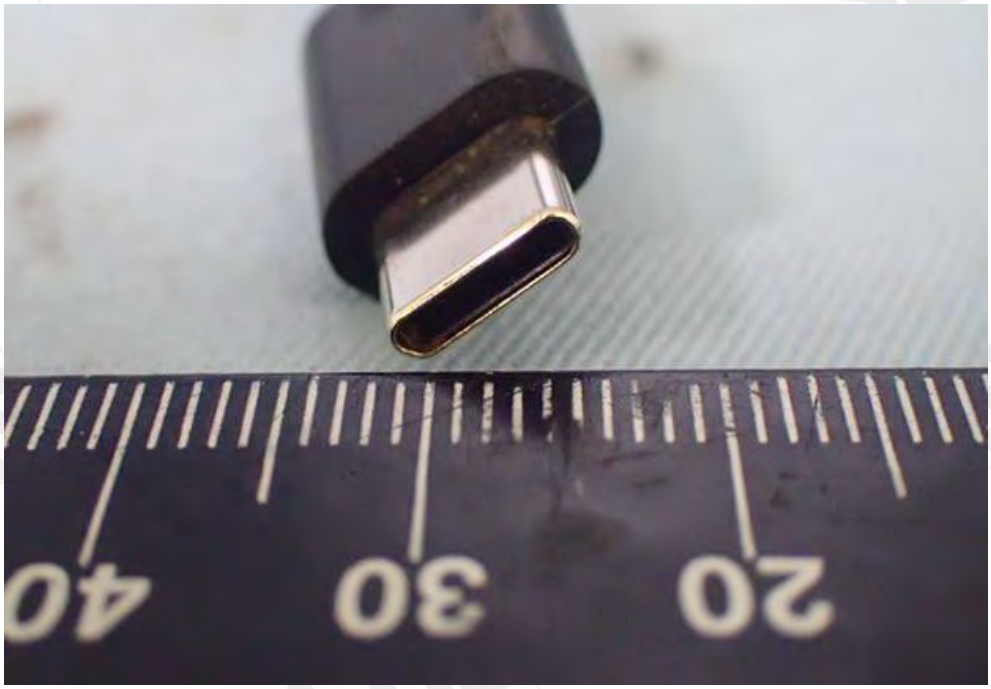

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