

FCC SDoC REPORT

Canada ISCED ICES-003 TEST REPORT

Test Report No. : T190529L01-F
Applicant : Quanta Computer Inc.
Address : No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377,
Taiwan (R.O.C.)
Manufacturer : Quanta Computer Inc.
Address : No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377,
Taiwan (R.O.C.)

Equipment Under Test (EUT) :

Product Name : Notebook Computer
Brand Name : HP
Model No. : TPN-Q225
Added Model(s) : N/A
Standards : FCC Part 15, Subpart B, Class B
Canada ICES-003 Issue 6(June 2016), Class B
Date of Receipt : Jun. 10, 2019
Date of Test : Jun. 10 ~ 13, 2019
Date of Issue : Jul. 02, 2019

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

Remarks :

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

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Tested By:



Frank Lin (Engineer)

Date:

Jul. 02, 2019

Approved By:



Hex Chiang (Supervisor)

Date:

Jul. 02, 2019



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Revision History

Report Number	Revision	Description	Issue Date
T190529L01-F	Rev.00	Initial creation of document	Jul. 02, 2019

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1. General Information

1.1 Applicant & Manufacturer Information

Applicant : Quanta Computer Inc.
Address : No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C.)
Manufacturer : Quanta Computer Inc.
Address : No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C.)

1.2 General Description of EUT

Product Name : Notebook Computer
Brand Name : HP
Model No. : TPN-Q225
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	1.3 GHz	
Adapter	AcBel	TPN-AA03
	Artesyn	TPN-TA02
	Chicony	TPN-CA06
		TPN-CA10
	Lite-On	TPN-LA12
Adapter Power Rating	For TPN-AA03, TPN-CA06 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-TA02, 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	
Duckhead Type	2pin / 3pin	
AC Power Cord Type	Non-shielded, 1.8m (Detachable) to Power Adapter	
DC Power Cable Type	Shielded, 1.8m (Non-Detachable) at Power Adapter	
Memory	LPDDR4X 3733MHz (16GB/32GB)	
	LPDDR4X 4266MHz (16GB/32GB)	
Main Board	Quanta	X3A
CPU (1526PIN)	Intel	i7-1065G7 (1.3GHz)
		i5-1035G4 (1.1GHz)
13.3" LCD Panel	AUO	B133HAN05.E
		B133ZAN02.A
	LGD	LP133WF9
	SDC	ATNA33TP01
Touch Screen	Henghao	8A0D346A
		8A0D346B
	TPK	T07CN055R001A
		T07CN055R001B
SSD	Hynix	HFS256GD9TNG-L2A0A (256GB)
		HFS512GD9TNG-L2A0A (512GB)
		HFS001TD9TNG-L2A0A (1TB)
	Intel	HBRPEKNX0202AH (512GB)
		HBRPEKNX0203AH (1TB)
	Samsung	MZVLB256HAHQ-000H1 (256GB)
		MZVLB256HBHQ-000H1 (256GB)
		MZVLB512HAJQ-000H1 (512GB)
		MZVLB512HBJQ-000H1 (512GB)
		MZVLB1T0HALR-000H1 (1TB)
		MZVLB2T0HMLB-000H1 (2TB)

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SSD	Toshiba	KXG60ZNV256G (256GB)
		KXG60ZNV512G (512GB)
		KXG60ZNV1T02 (1TB)
		KXG50PNV2T04 (2TB)
	Western Digital	SDAPNTW-256G-1006 (256GB)
		SDAPNTW-512G-1006 (512GB)
		SDAPNTW-1T00-1006 (1TB)
	Micron	MTFDHBA512TCK-1AS1AABHA (512GB)
		MTFDHBA1T0TCK-1AT1AABHA (1TB)
Camera	Chicony	CKFIH6521004332LH
	TFC	YHRL
Wireless LAN	Intel	AX201D2W
Wireless WAN	Fibocom	L860-GL
Battery	CosMX	HSTNN-OB1M
	Dynapack	HSTNN-DB9K
USB 3.0 to Gigabit adapter	HP	T4Q43AV
USB-C to VGA adapter	HP	T4Q56AV
USB-C to HDMI 2.0 adapter	HP	1WU54AV
USB-C to USB 3.0 adapter	HP	P5U32AV
USB-C to RJ45 Gigabit adapter	HP	V2X31AV
USB-C to USB-A Hub (Jake)	HP	1WU53AV
USB-C to Multi-PortHub (Lexus)	HP	1TH56AV
HP Elite USB-C Multi Port Hub (Gonzo2)	HP	HSA-Q001U
HP Thunderbolt Dock 230W G2 (Hook)	HP	HSN-IX01
HP Elite Thunderbolt 3 Dock (Trump)	HP	HSNTNN-CX01
External USB ODD	HP	GP70N
Active pen	HP	Y0C43AV
		1CP24AV
		1TD47AV
		1SC98AV

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Pre-test Mode

Mode	Main Board	CPU	Memory	13.3" LCD Panel	Touch Screen	SSD	Camera	Wireless LAN	Wireless WAN	Battery	Active pen	USB 3.0 to Gigabit adapter USB-C to VGA adapter USB-C to HDMI 2.0 adapter USB-C to USB 3.0 adapter USB-C to RJ45 Gigabit adapter USB-C to USB-A Hub (Jake) USB-C to Multi-PortHub (Lexus) HP Elite USB-C Multi Port Hub (Gonzo2) HP Thunderbolt Dock 230W G2 (Hook) HP Elite Thunderbolt 3 Dock (Trump) External USB ODD	AC Adapter
1	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 3733MHz 16GB+16GB+16GB+16GB	AUO B133HAN05.E	Henghao 8A0D346A	Hynix HFS256GD9TNG -L2A0A (256GB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	CosMX HSTNN-OB1M	HP YOC43AV	HP T4Q43AV	AcBel TPN-AA03
2	Quanta X3A	Intel i5-1035G4 (1.1GHz)	LPDDR4X 3733MHz 32GB+32GB+32GB+32GB	AUO B133ZAN02.A	Henghao 8A0D346B	Hynix HFS512GD9TNG -L2A0A (512GB)	TFC YHRL	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP 1CP24AV	HP T4Q56AV	Artesyn TPN-TA02
3	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 16GB+16GB+16GB+16GB	LGD LP133WF9	TPK T07CN055R001A	Hynix HFS001TD9TNG-L2A0A (1TB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP 1TD47AV	HP 1WU54AV	Chicony TPN-CA06
4	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	SDC ATNA33TP01	TPK T07CN055R001B	Intel (C8) HBRPEKX0202 AH (512GB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP 1SC98AV	HP PSU32AV	Chicony TPN-CA10
5	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Intel (C8) HBRPEKX0203 AH (1TB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP V2X31AV	Lite-On TPN-LA12
6	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Samsung (A1) MZVLB256HAHQ-000H1 (256GB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP 1WU53AV	Artesyn TPN-TA02
7	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Samsung (A1) MZVLB512HAJQ-000H1 (512GB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP 1TH56AV	Artesyn TPN-TA02
8	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Samsung (A1) MZVLB1T0HALR-000H1 (1TB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP HSA-Q001U	Artesyn TPN-TA02
9	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Samsung (A1) MZVLB2T0HMLB-000H1 (2TB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP HSN-IX01	Artesyn TPN-TA02
10	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Toshiba KXG60ZNV256G (256GB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP HSTNN-CX01	Artesyn TPN-TA02
11	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Toshiba KXG60ZNV512G (512GB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP HSN-IX01	Artesyn TPN-TA02
12	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Toshiba KXG60ZNV1T02 (1TB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP GP70N	Artesyn TPN-TA02
13	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Toshiba KXG50PNV2T04 (2TB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	N/A	Artesyn TPN-TA02
14	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Western Digital SDAPNTW-256G-1006 (256GB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP HSN-IX01	Artesyn TPN-TA02
15	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Western Digital SDAPNTW-512G-1006 (512GB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP HSN-IX01	Artesyn TPN-TA02
16	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Western Digital SDAPNTW-1T00-1006 (1TB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP HSN-IX01	Artesyn TPN-TA02
17	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Samsung MZVLB512HBJQ-000H1 (512GB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP HSN-IX01	Artesyn TPN-TA02
18	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Micron MTFDHBAS12TC K-1A51AABHA (512GB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP HSN-IX01	Artesyn TPN-TA02
19	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Micron MTFDHBAT10TC K-1AT1AABHA (1TB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP HSN-IX01	Artesyn TPN-TA02
20	Quanta X3A	Intel i7-1065G7 (1.3GHz)	LPDDR4X 4266MHz 32GB+32GB+32GB+32GB	AUO B133HAN05.E	TPK T07CN055R001A	Samsung MZVLB256HBHQ-000H1 (256GB)	Chicony CKFIH6521004332LH	Intel AX201D2W	Fibocom L860-GL	Dynapack HSTNN-DB9K	HP YOC43AV	HP HSN-IX01	Artesyn TPN-TA02

1.4 The worst case of the EUT

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

Worst Case	
CE	Mode 11 (1920 x 1080 Resolution)
RE	Mode 11 (1920 x 1080 Resolution)

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1.5 Description of Support Units

Mode 11:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	DELL	U2713HMT	CN-0GK0KD-74445-337-067L
LCD Monitor	DELL	U2410F	CN-082WXD-72872-16R-02GL
Micro SD 8G	Transcend	N/A	N/A
Earphone	APPLE	N/A	N/A
Earphone	Lenovo	GS-4021M	57Y4488
SIM	N/A	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
USB type C to USB	HP	N/A	N/A
Notebook PC (Remote)	DELL	INSPIRON 640m	CN-0MG532-70166-75G-03AP
Wireless AP (Remote)	D-Link	DIR-868L	R3X81D7000137
GPS simulator (Remote)	IFR	GPS-101	N/A
Universal Radio Communication Tester (Remote)	Anritsu	MT8820	62Q1221594

Support Equipment Used in Tested Cable

Mode 11:

Cable Type	Core	Length	Shielding/Non-shielding
Display Cable (1)	N/A	1.8m	Shielding
VGA Cable (2)	N/A	1.8m	Shielding
Type-C DC Jack Cable (3)	N/A	1.8m	Shielding
Earphone Cable (4)	N/A	1.0m	Non-shielding
USB type C to USB Cable (5)	N/A	0.1m	Shielding
USB Mouse Cable (6)	N/A	1.8m	Shielding
USB HDD Cable (7)	N/A	0.6m	Shielding
DC Cable (8)	N/A	1.8m	Shielding
LAN Cable (9)	N/A	10m	Non-shielding

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1.6 Operation Procedure

Mode 11:

1. Turn on the power of all equipment.
2. The EUT communicates with Notebook PC by Bluetooth radio.
3. The EUT communicates with Wireless AP by WIFI radio.
4. EUT execute the "WIN EMC" test software to reads and writes data into via HDD.
5. EUT execute the "WIN EMC" test software to send "H" Pattern to display on the screen.
6. Executed AMCAP2 software to turn-on the CCD.
7. The EUT will receive the RF 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.

1.7 Modification List

No modification was made by SGS Taiwan Electronics & Communication Laboratory.

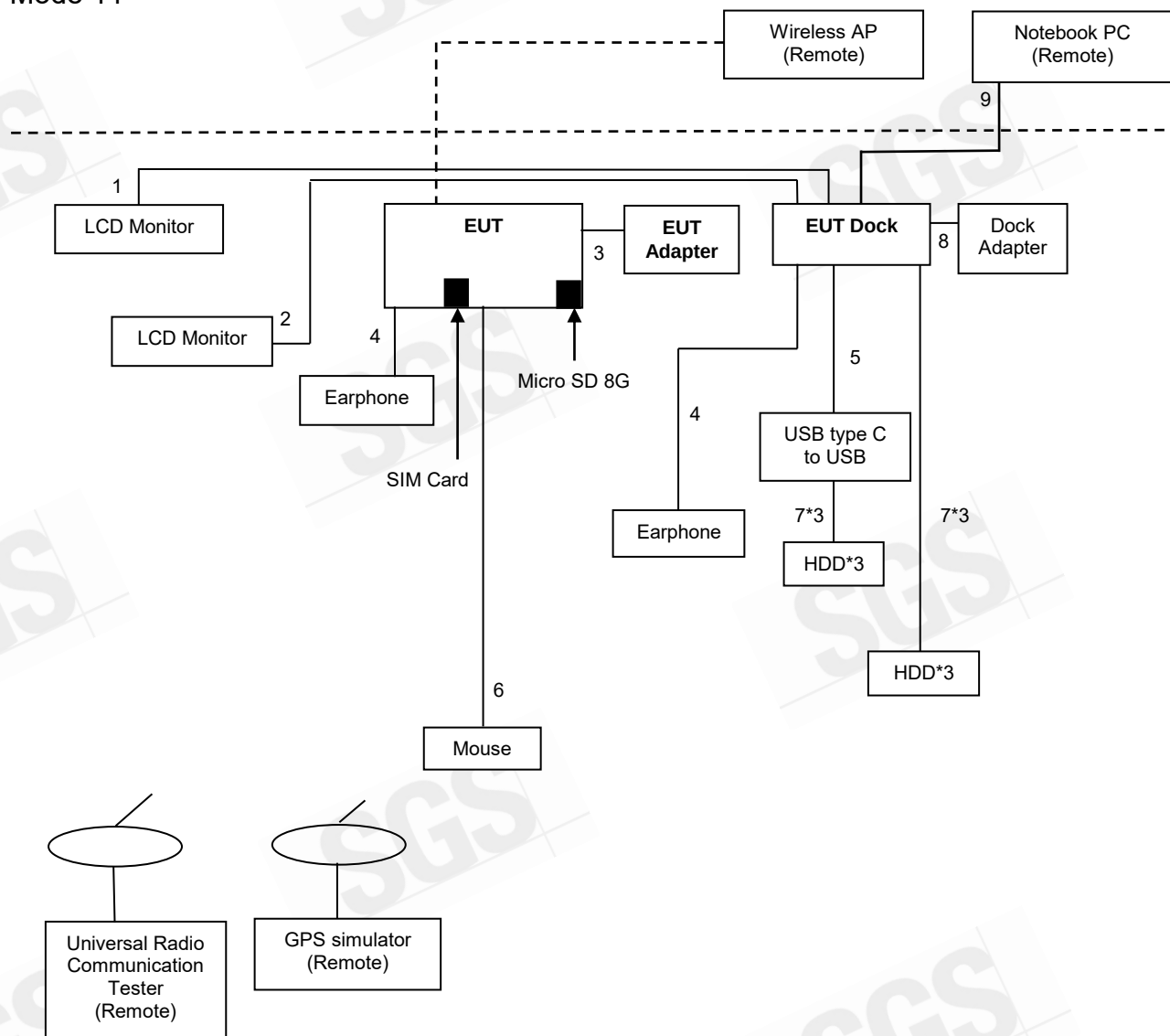
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1.8 Test Set-Up Configuration

Mode 11



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

1.14 Reporting Statements of Conformity

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

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2. EMISSION

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

FCC Part 15, Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

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

Below 1.705	30
1.705 - 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

SGS 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 U _{lab} (K=2) of conducted emission is 3.14 dB					
Theory values uncertainty U _{cispr} 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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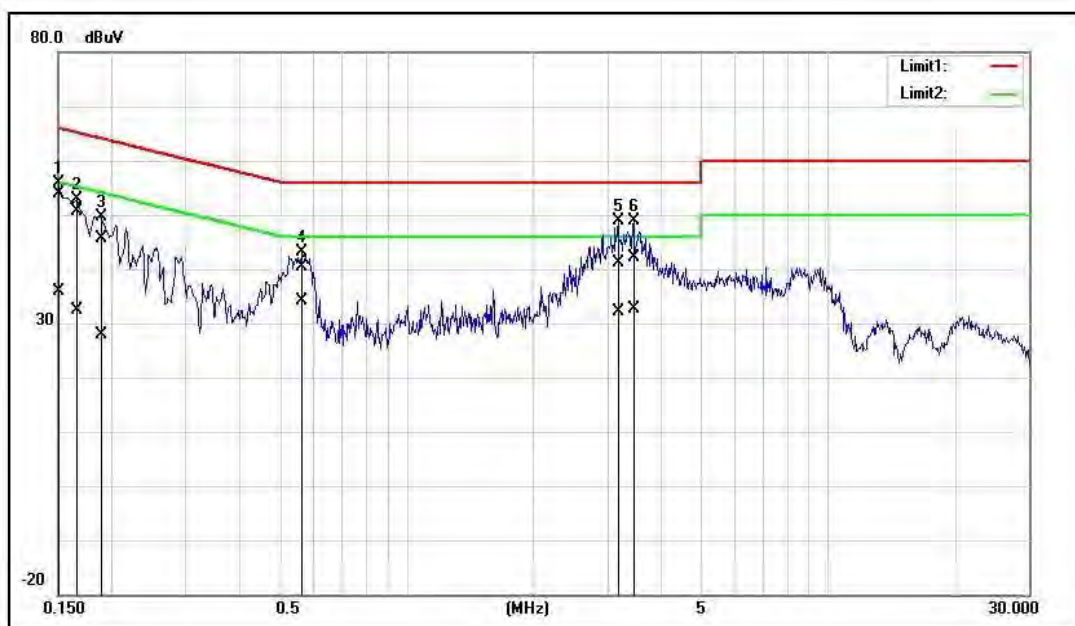
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2.4.4 Measurement Data:

Model No.: TPN-Q225

Mode_11_L

Test site:	IOM Conduction	Date:	2019/6/10
Standard:	FCC Part 15 B Class B(QP)	Time:	21:51:40
Test item:	Conduction test	Temp.(°C)/Hum.(%)	24(°C)/50%
Mode:	11	Test Voltage:	AC 120V/60Hz
Description:			



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1500	44.01	26.13	9.76	53.77	35.89	65.99	56.00	-12.22	-20.11	Pass
2	0.1660	40.95	22.70	9.76	50.71	32.46	65.15	55.16	-14.44	-22.70	Pass
3	0.1900	35.77	18.22	9.76	45.53	27.98	64.03	54.04	-18.50	-26.06	Pass
4*	0.5660	30.50	24.27	9.76	40.26	34.03	56.00	46.00	-15.74	-11.97	Pass
5	3.1820	31.33	22.38	9.82	41.15	32.20	56.00	46.00	-14.85	-13.80	Pass
6	3.4580	32.20	22.75	9.82	42.02	32.57	56.00	46.00	-13.98	-13.43	Pass

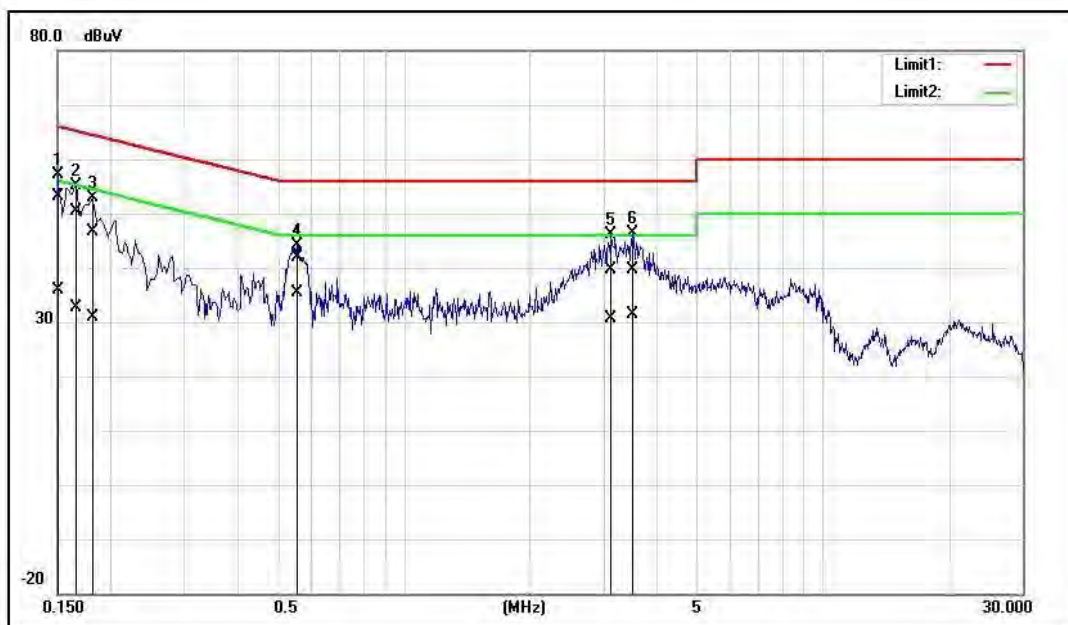
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Mode_11_N

Test site:	10M Conduction	Date:	2019/6/10
Standard:	FCC Part 15 B Class B(QP)	Time:	21:56:17
Test item:	Conduction test	Temp.(°C)/Hum.(%)	24(°C)/50%
Mode:	11	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	43.27	25.96	9.80	53.07	35.76	65.99	56.00	-12.92	-20.24	Pass
2	0.1660	40.57	22.95	9.79	50.36	32.74	65.15	55.16	-14.79	-22.42	Pass
3	0.1819	36.95	21.08	9.80	46.75	30.88	64.39	54.40	-17.64	-23.52	Pass
4*	0.5580	31.98	25.69	9.80	41.78	35.49	56.00	46.00	-14.22	-10.51	Pass
5	3.1380	29.72	20.72	9.86	39.58	30.58	56.00	46.00	-16.42	-15.42	Pass
6	3.5180	29.88	21.57	9.86	39.74	31.43	56.00	46.00	-16.26	-14.57	Pass

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

SGS 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 U _{lab} (K=2) of radiated emission is 4.23 dB. (30MHz ~ 200MHz)					
Expanded uncertainty U _{lab} (K=2) of radiated emission is 4.13 dB. (200MHz ~ 1000MHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)					

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Above 1GHz

SGS 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 U _{lab} (K=2) of radiated emission is 4.89 dB. (1-6GHz)					
Expanded uncertainty U _{lab} (K=2) of radiated emission is 5.23 dB. (6-18GHz)					
Expanded uncertainty U _{lab} (K=2) of radiated emission is 4.13 dB. (18-26GHz)					
Expanded uncertainty U _{lab} (K=2) of radiated emission is 4.28 dB. (26-40GHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of Irradiated emission measurement is 5.18 dB.(1-6GHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of Irradiated emission measurement is 5.48 dB.(6-18GHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of Irradiated emission measurement is ---- dB.(18-26GHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of Irradiated 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.: TPN-Q225

Mode_11_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.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2019/6/13	Time:02:19:58
Mode:	11		
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	27.34	-3.09	24.25	30.00	-5.75	399	78	QP
2	130.8800	32.48	-8.84	23.64	30.00	-6.36	399	159	QP
3	207.5100	36.93	-10.37	26.56	30.00	-3.44	300	270	QP
4	428.6700	35.61	-2.85	32.76	37.00	-4.24	251	0	QP
5	594.5400	33.48	-0.67	32.81	37.00	-4.19	399	234	QP
6	640.1300	33.18	-0.12	33.06	37.00	-3.94	100	330	QP
7	890.3900	30.08	2.79	32.87	37.00	-4.13	100	253	QP

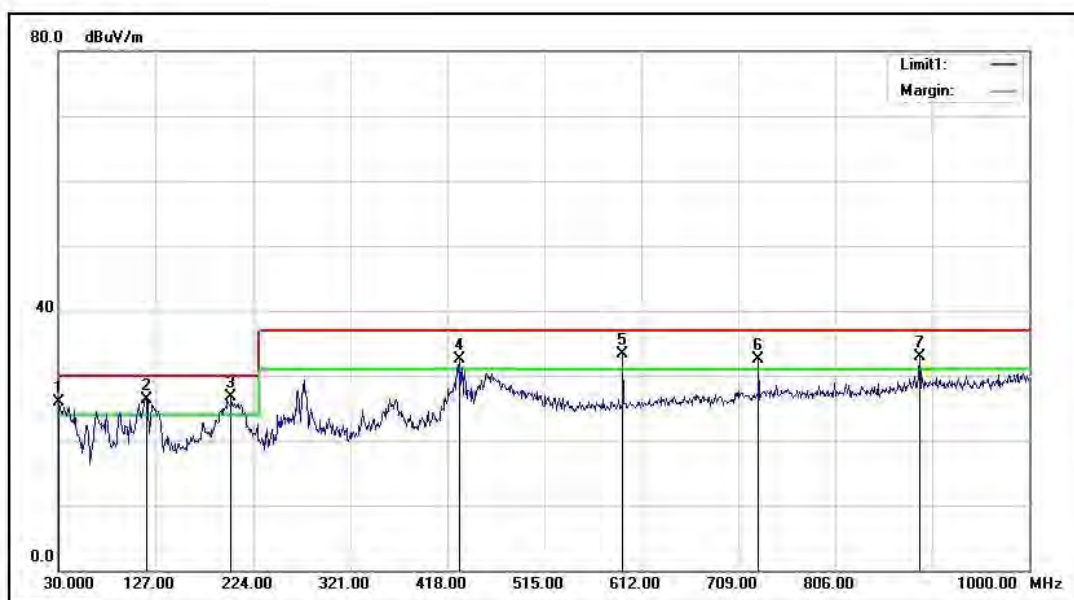
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Mode_11_V

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.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2019/6/13	Time:02:19:59
Mode:	11		
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	28.75	-2.79	25.96	30.00	-4.04	100	255	QP
2	118.2700	34.45	-8.08	26.37	30.00	-3.63	100	0	QP
3	201.6900	35.78	-9.14	26.64	30.00	-3.36	100	326	QP
4	430.6100	33.37	-0.89	32.48	37.00	-4.52	264	0	QP
5	593.5700	32.07	1.27	33.34	37.00	-3.66	100	159	QP
6	729.3700	29.74	2.76	32.50	37.00	-4.50	100	344	QP
7	890.3900	27.77	5.19	32.96	37.00	-4.04	299	335	QP

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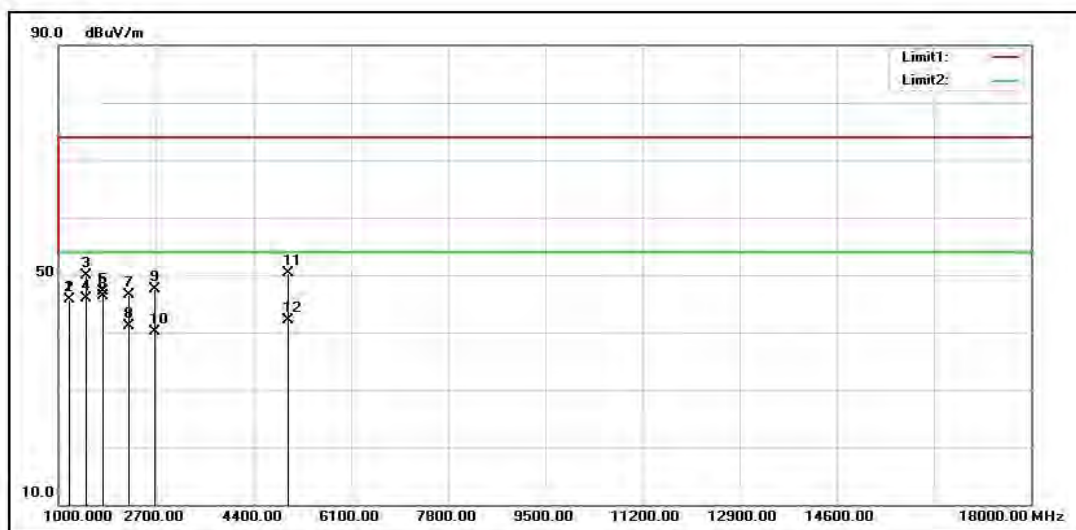
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Above 1GHz

Model No.: TPN-Q225

Mode_11_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.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:	2019/6/13
Mode:	11	Time:	05:41:28
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1189.242	64.69	-19.05	45.64	74.00	-28.36	100	255	peak
2	1189.242	64.84	-19.05	45.79	54.00	-8.21	100	255	AVG
3	1489.181	68.58	-18.63	49.95	74.00	-24.05	155	210	peak
4	1489.181	64.46	-18.63	45.83	54.00	-8.17	155	210	AVG
5	1785.262	64.11	-17.06	47.05	74.00	-26.95	155	235	peak
6	1785.262	63.32	-17.06	46.26	54.00	-7.74	155	235	AVG
7	2239.565	60.95	-14.42	46.53	74.00	-27.47	180	212	peak
8	2239.565	55.60	-14.42	41.18	54.00	-12.82	180	121	AVG
9	2697.181	61.10	-13.52	47.58	74.00	-26.42	180	177	peak
10	2697.181	53.64	-13.52	40.12	54.00	-13.88	180	177	AVG
11	4996.181	59.04	-8.78	50.26	74.00	-23.74	200	289	peak
12	4996.181	50.90	-8.78	42.12	54.00	-11.88	200	289	AVG

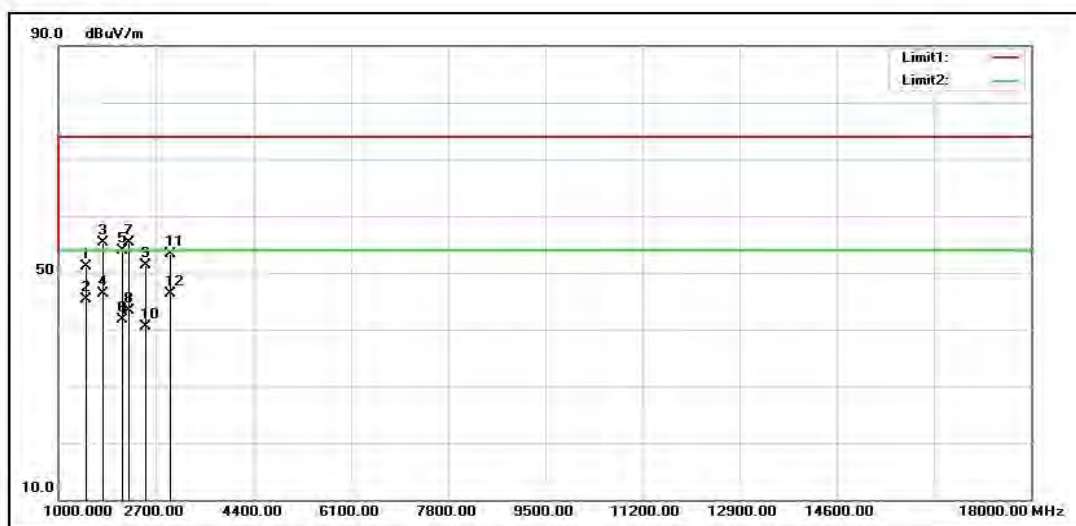
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Mode_11_V

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.(°C)/Hum.(%RH):	26(°C)/60%RH	Date:2019/6/13	Time:05:59:28
Mode:	11		
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1487.656	69.75	-18.63	51.12	74.00	-22.88	400	145	peak
2	1487.656	63.95	-18.63	45.32	54.00	-8.68	400	145	AVG
3	1786.878	72.32	-17.04	55.28	74.00	-18.72	400	211	peak
4	1786.878	63.33	-17.04	46.29	54.00	-7.71	400	211	AVG
5	2112.595	68.55	-14.70	53.85	74.00	-20.15	400	176	peak
6	2112.595	56.35	-14.70	41.65	54.00	-12.35	400	176	AVG
7	2230.129	69.75	-14.43	55.32	74.00	-18.68	300	250	peak
8	2230.129	57.72	-14.43	43.29	54.00	-10.71	300	250	AVG
9	2540.181	65.22	-14.01	51.21	74.00	-22.79	300	21	peak
10	2540.181	54.57	-14.01	40.56	54.00	-13.44	300	212	AVG
11	2967.216	65.93	-12.64	53.29	74.00	-20.71	400	53	peak
12	2967.216	58.93	-12.64	46.29	54.00	-7.71	400	53	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.: TPN-Q225

Mode 11 +



Mode 11 -



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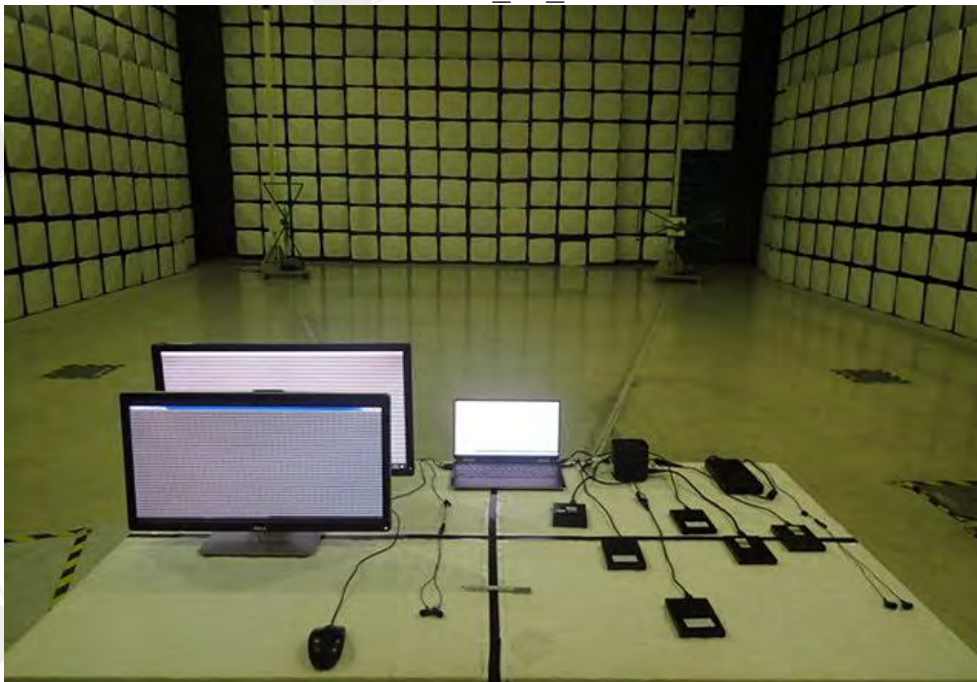
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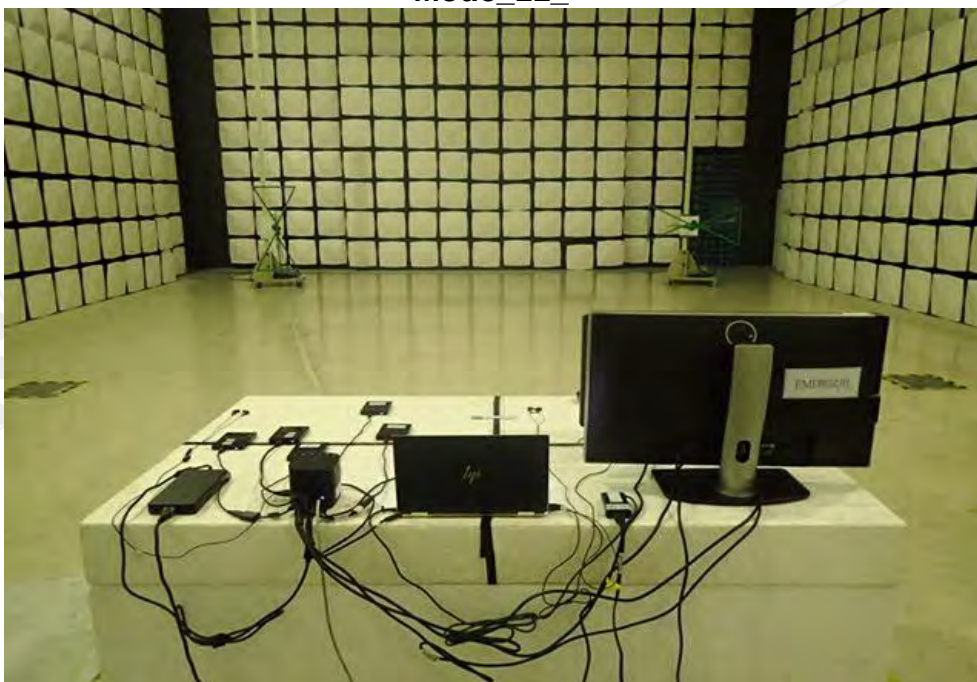
RE Testing Set-up Below 1GHz

Model No.: TPN-Q225

Mode 11 +



Mode 11 -



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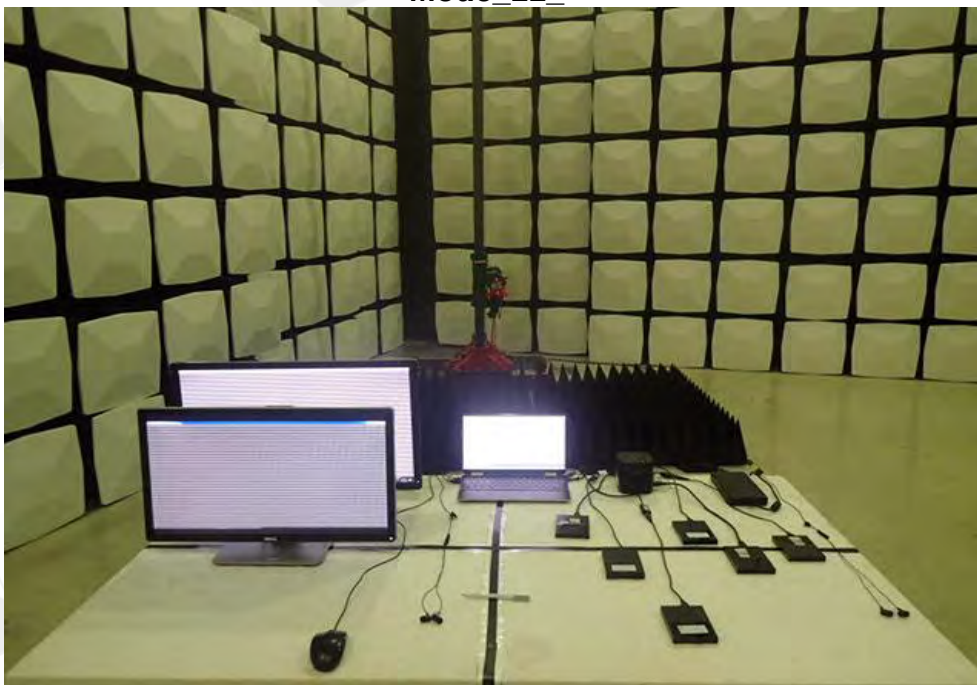
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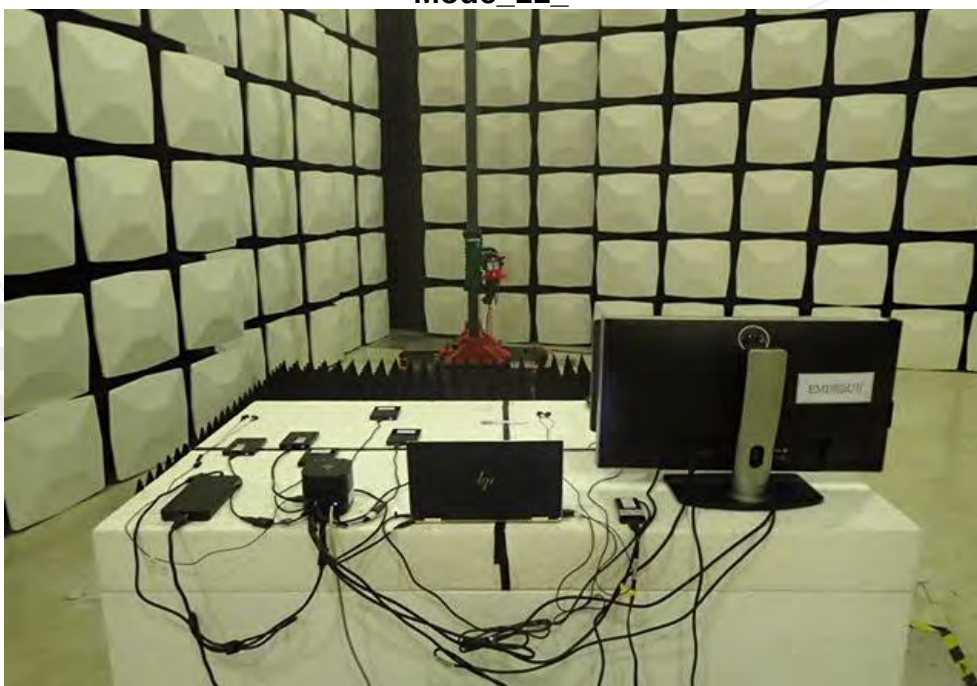
Above 1GHz

Model No.: TPN-Q225

Mode_11_+



Mode_11_-



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4. Photographs of Product

Exterior

Model No.: TPN-Q225



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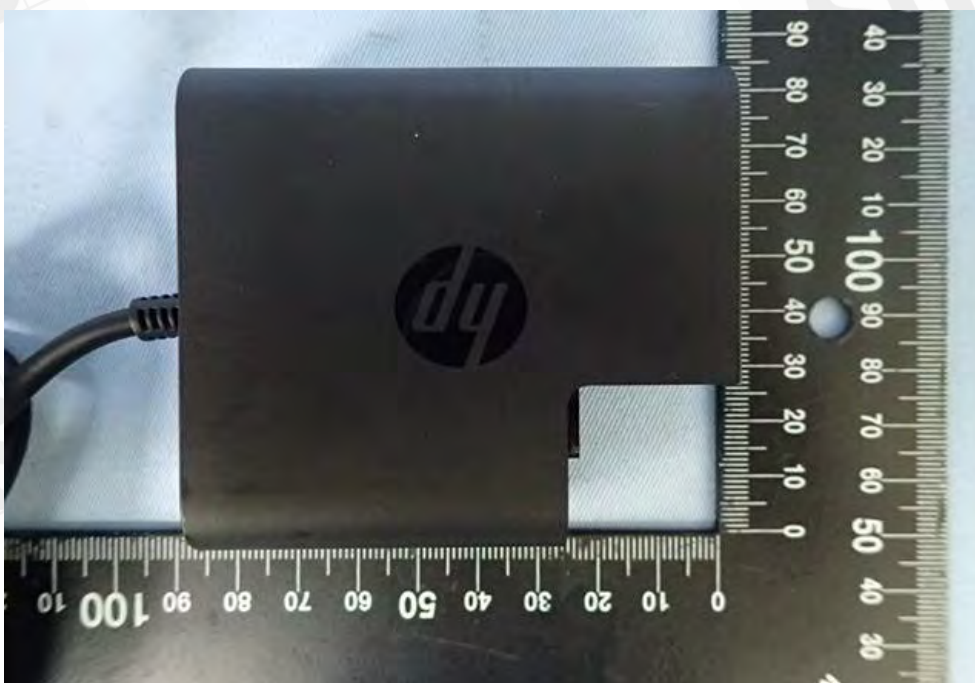


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Adapter Model No.: TPN-AA03



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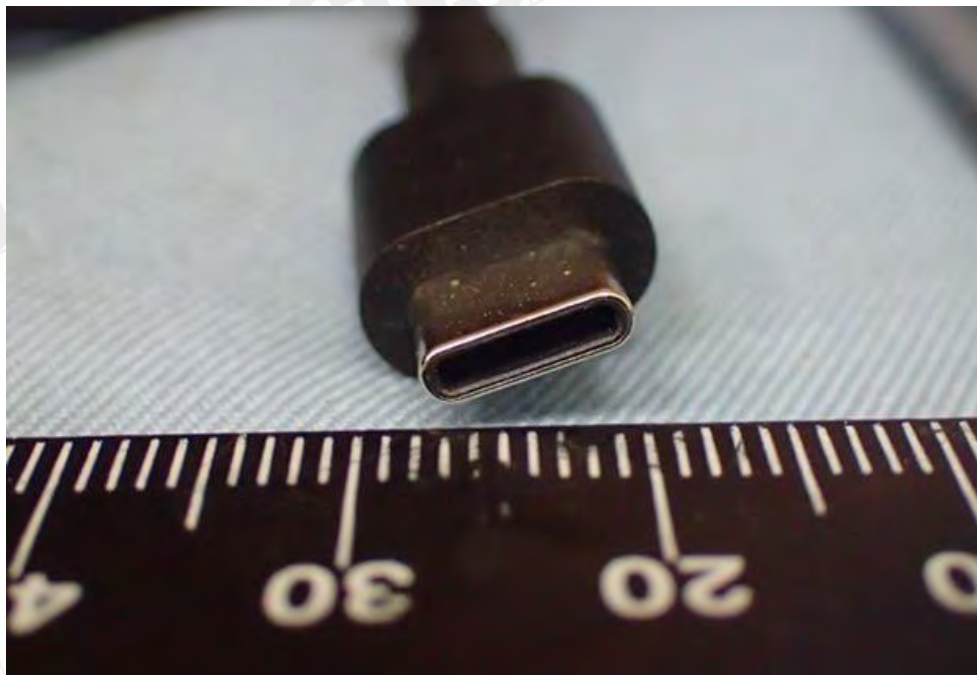
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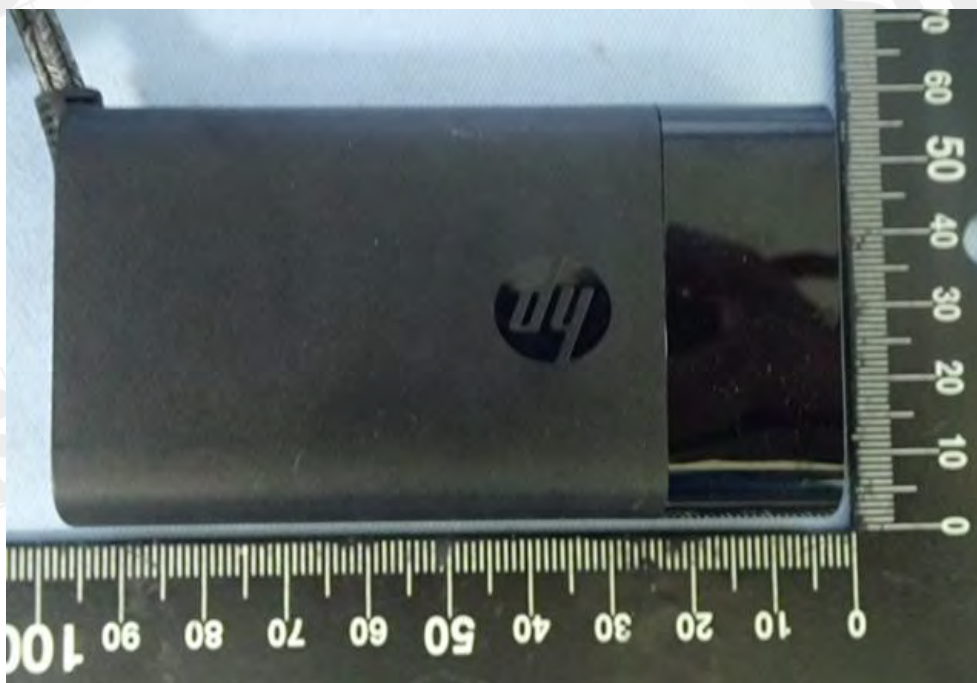


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Adapter Model No.: TPN-TA02



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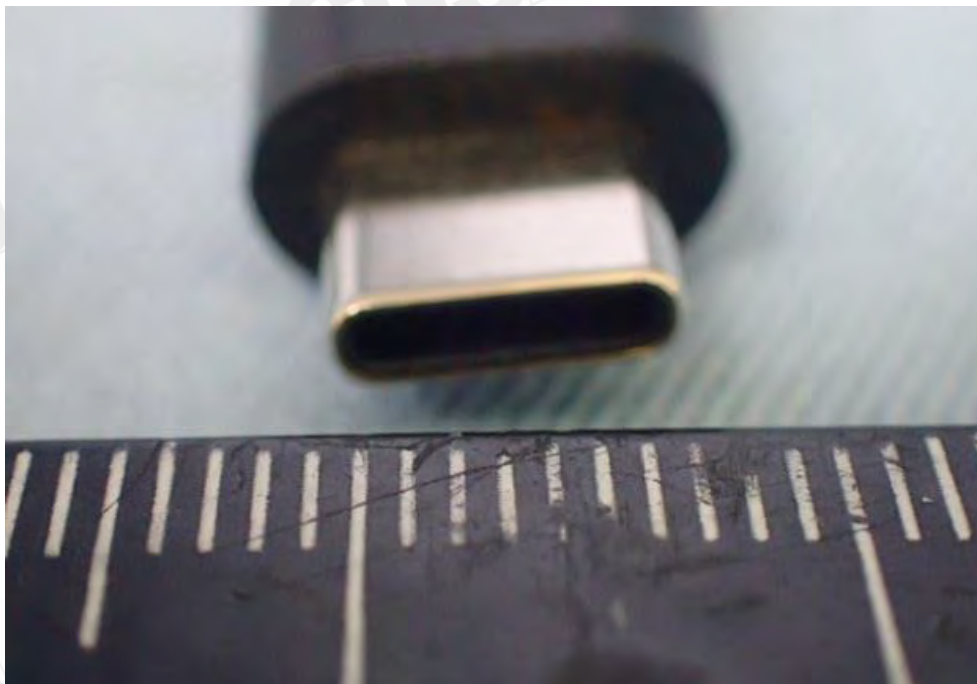
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Adapter Model No.: TPN-CA10



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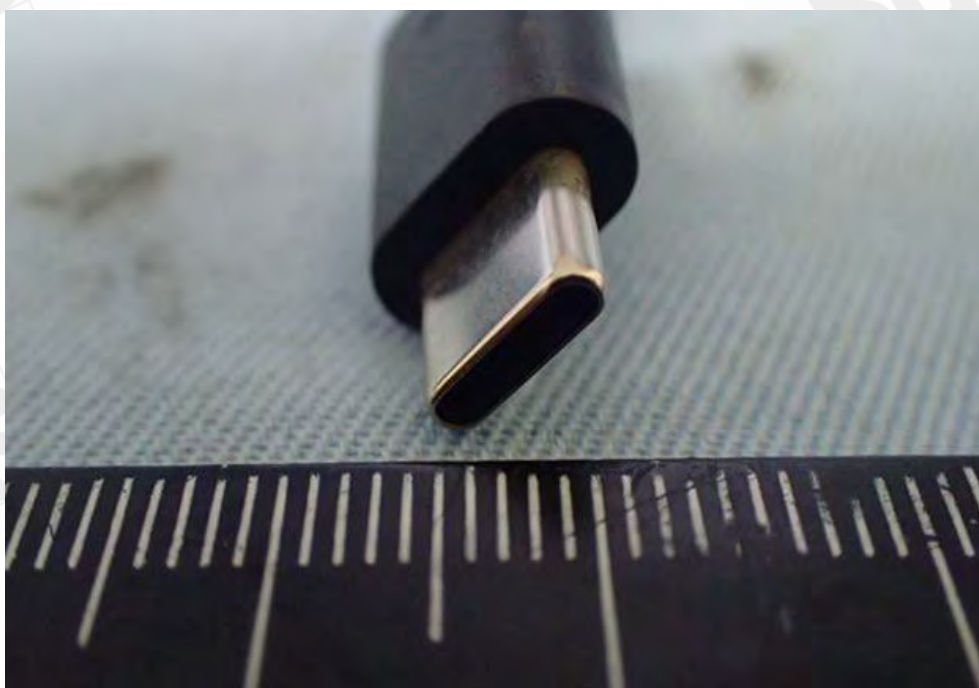
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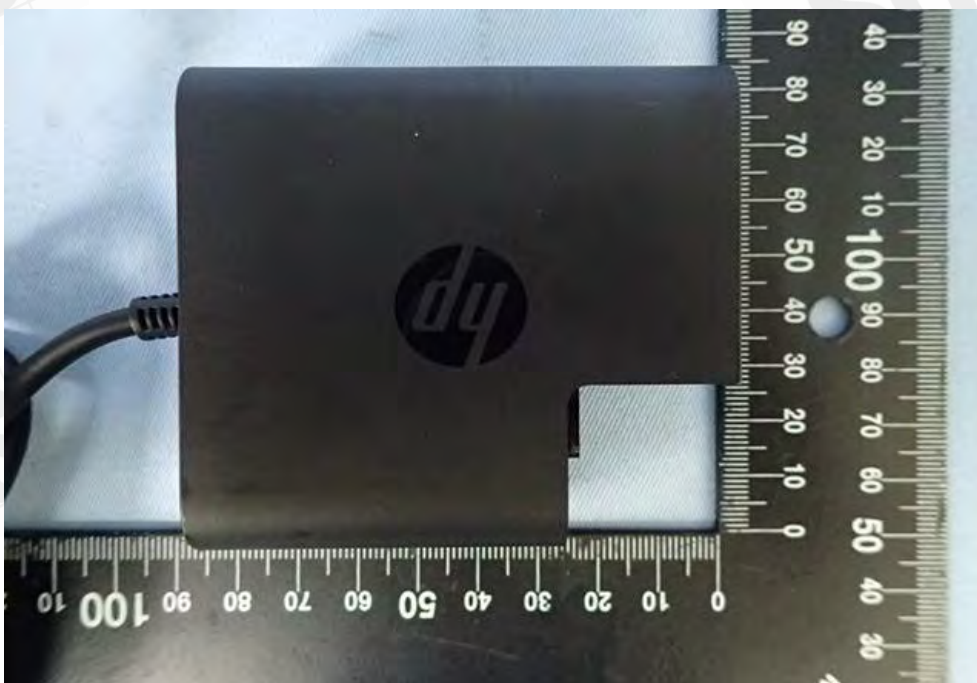


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Adapter Model No.: TPN-CA06



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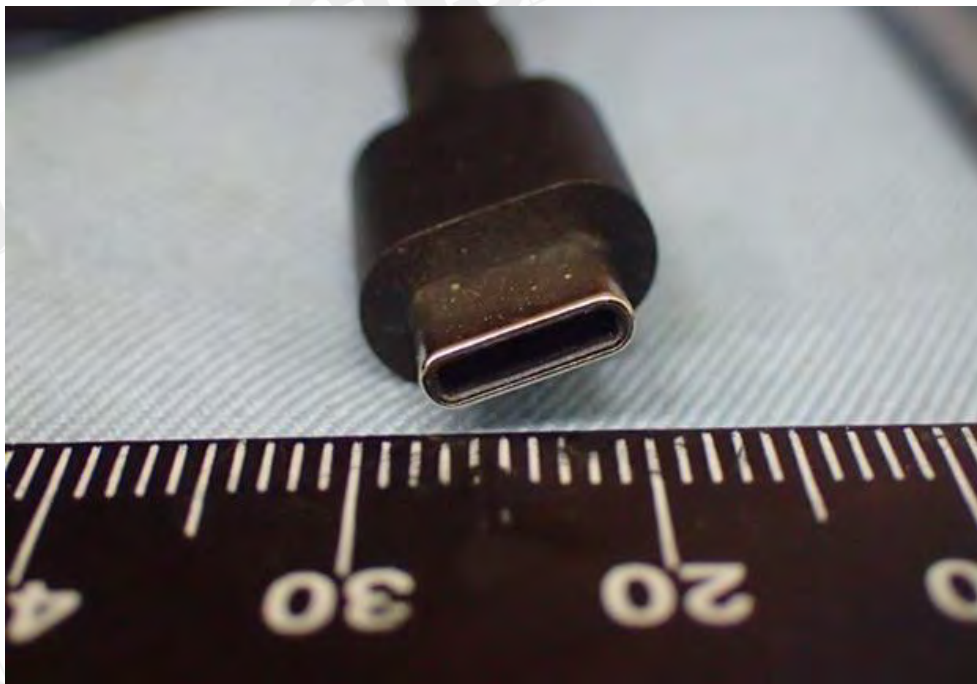
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Adapter Model No.: TPN-LA12



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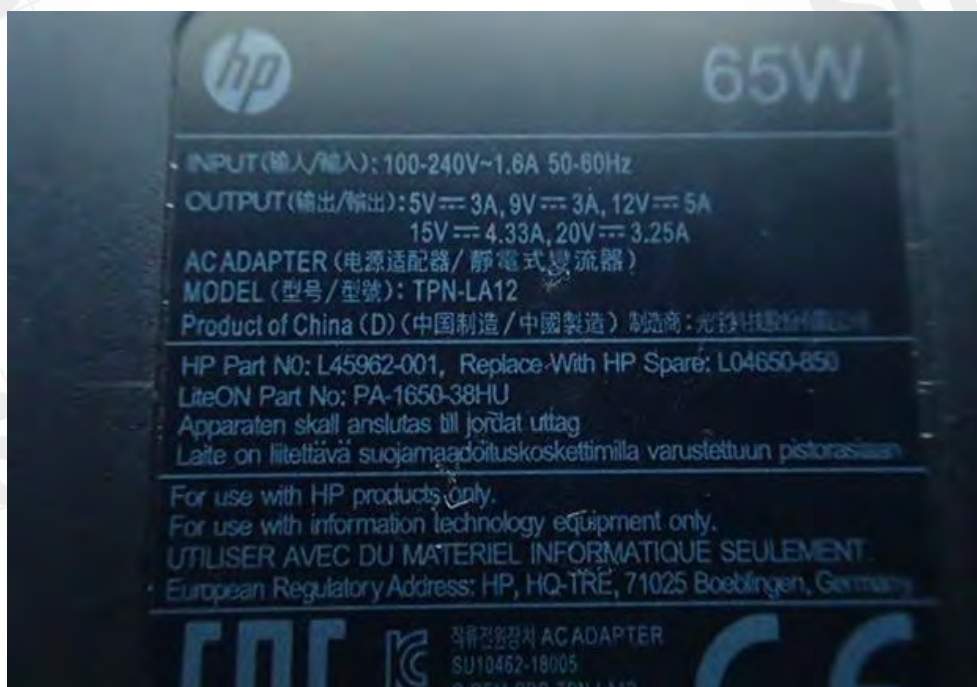
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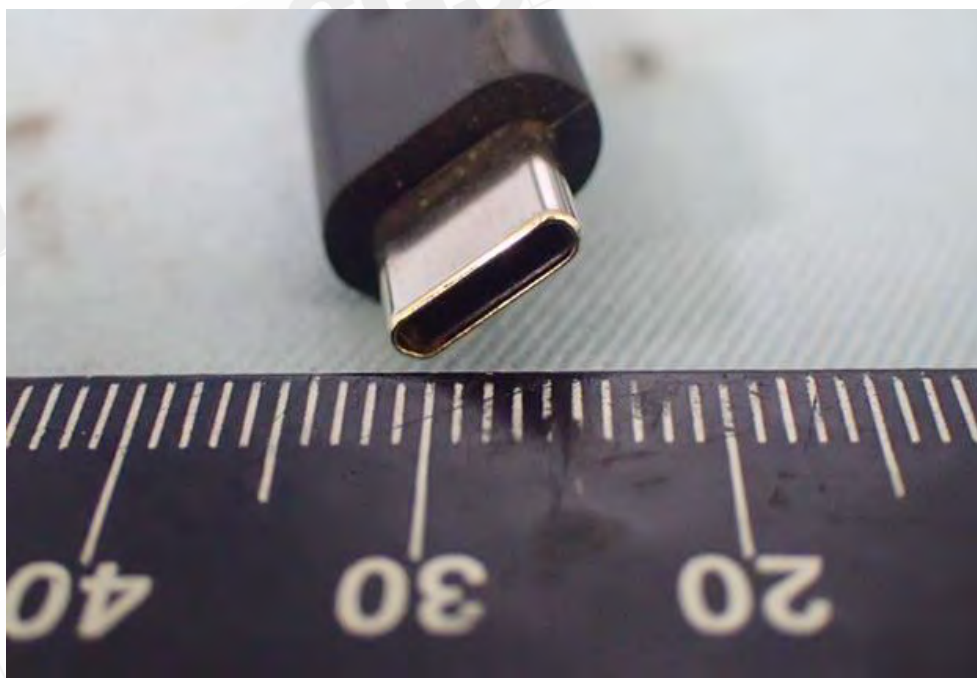
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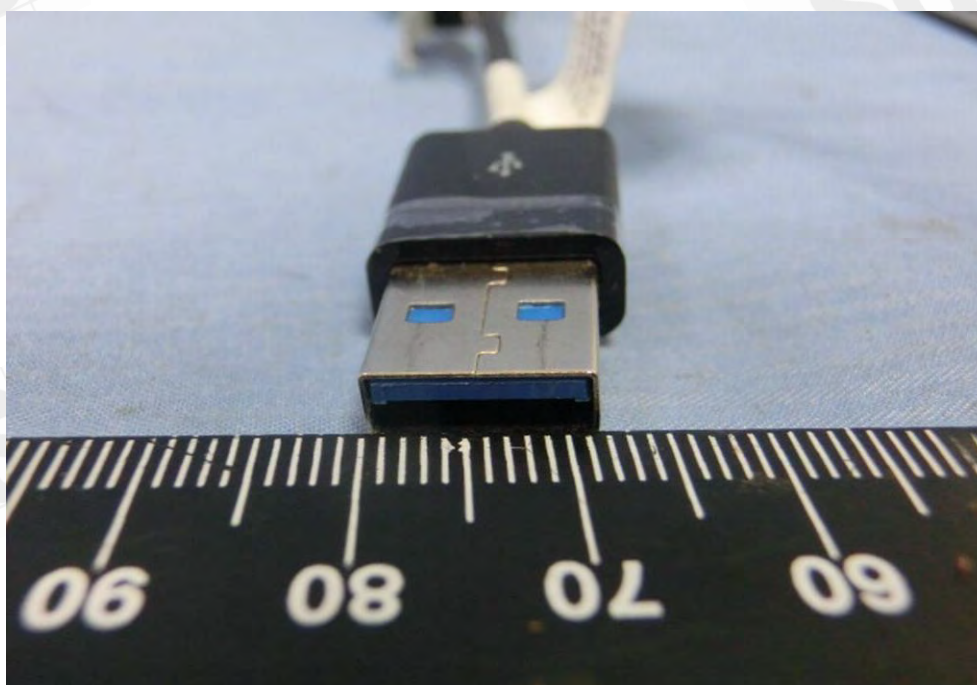


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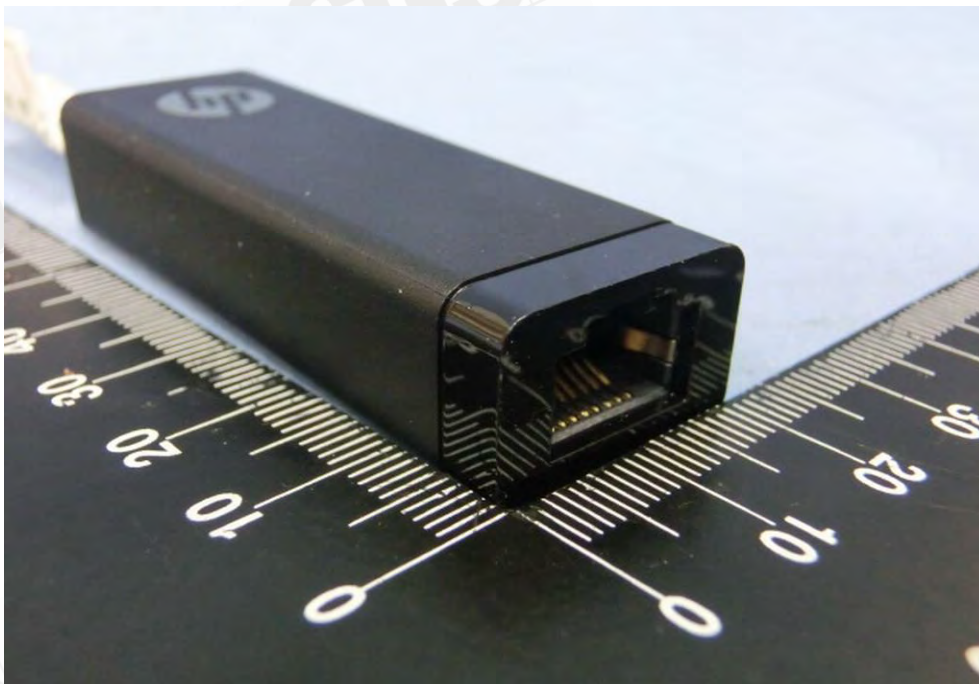
USB 3.0 to Gigabit adapter Model No.: T4Q43AV



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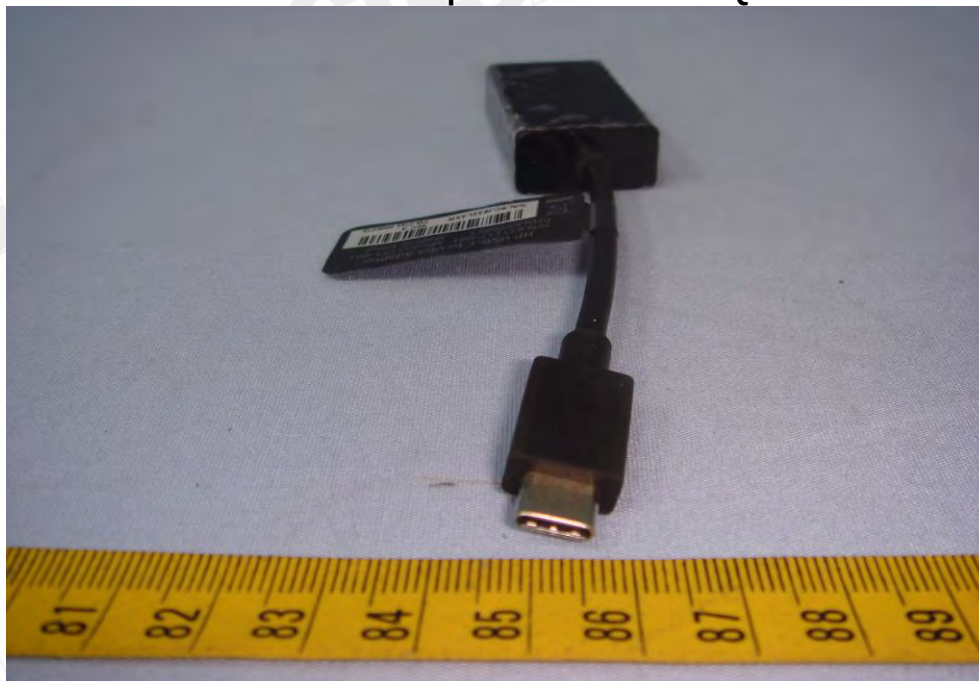


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USB-C to VGA adapter Model No.: T4Q56AV



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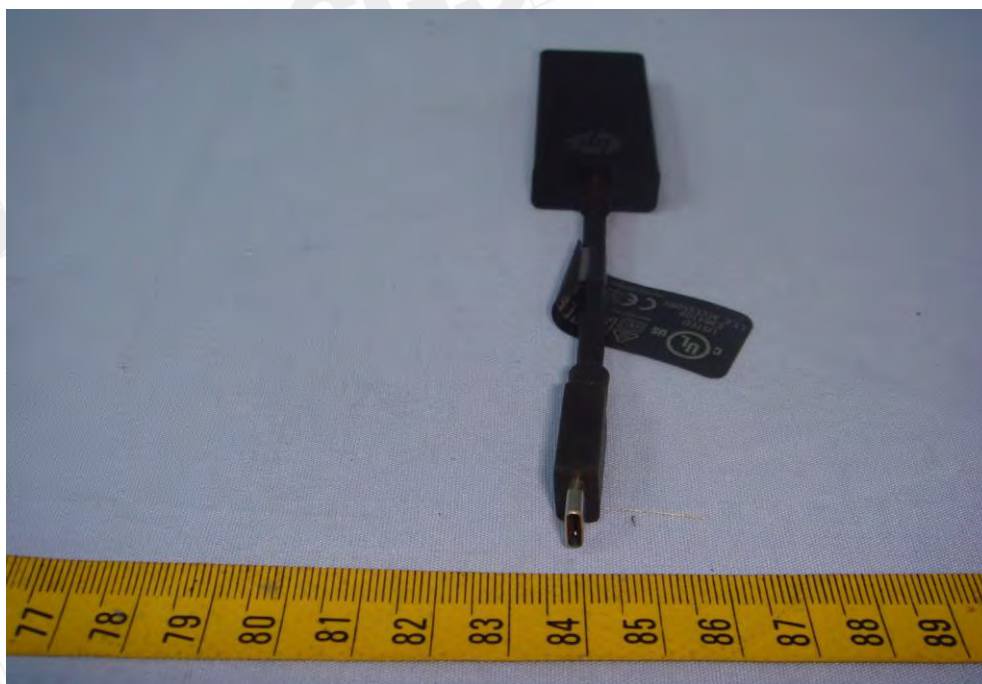
USB-C to HDMI 2.0 adapter Model No.: 1WU54AV



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USB-C to USB 3.0 adapter Model No.: P5U32AV



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USB-C to RJ45 Gigabit adapter Model No.: V2X31AV



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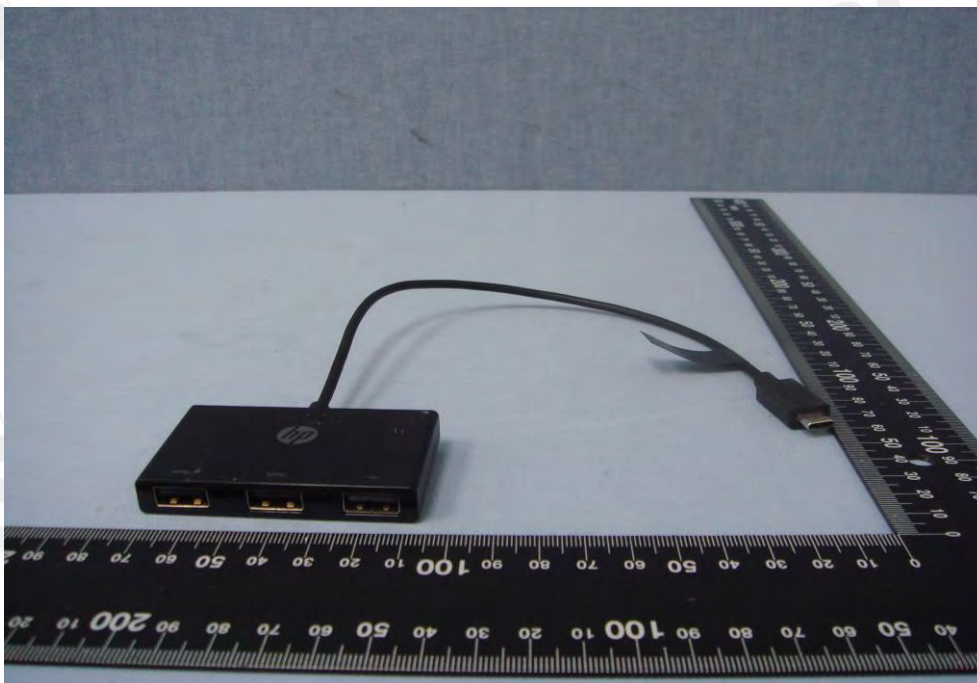
USB-C to USB-A Hub (Jake) Model No.: 1WU53AV



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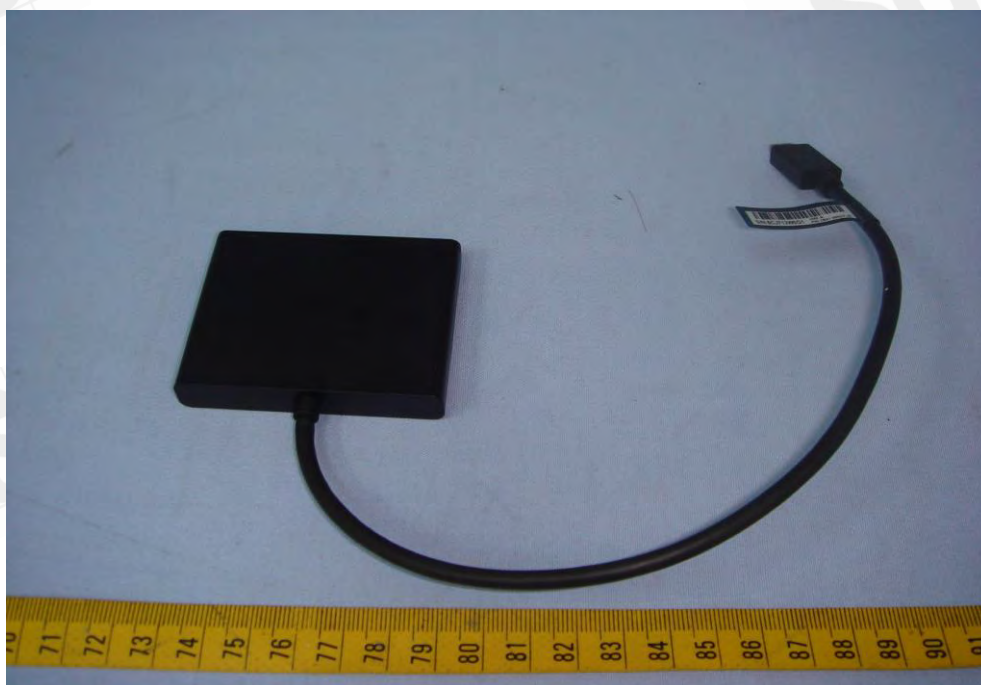
USB-C to Multi-PortHub (Lexus) Model No.: 1TH56AV



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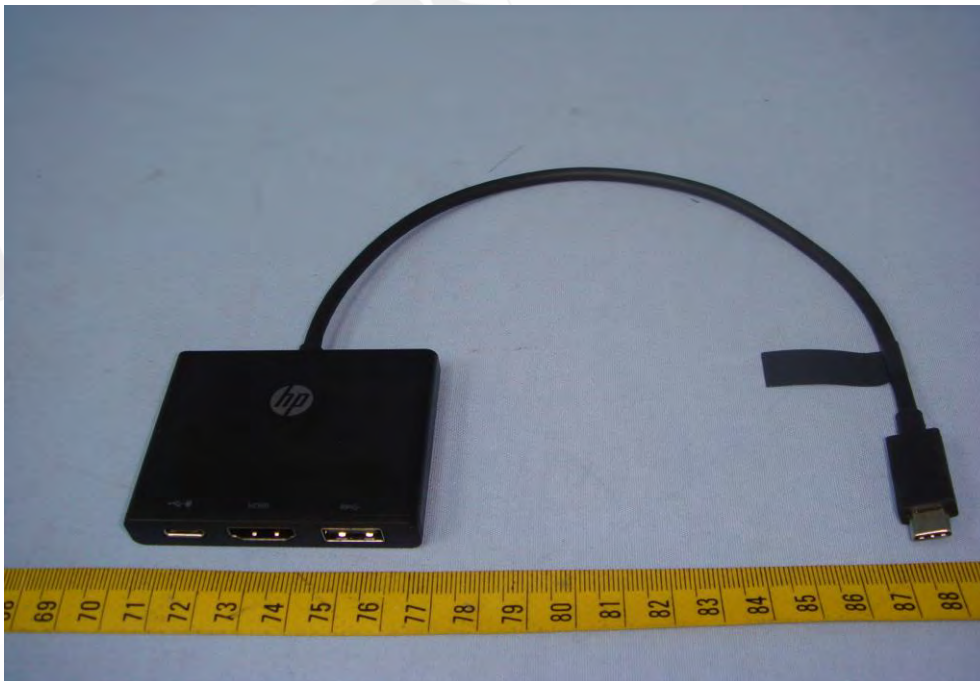
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HP Elite USB-C Multi Port Hub (Gonzo2) Model No.: HSA-Q001U

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HP Thunderbolt Dock 230W G2 (Hook) Model No.: HSN-IX01



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HP Elite Thunderbolt 3 Dock (Trump) Model No.: HSTNN-CX01

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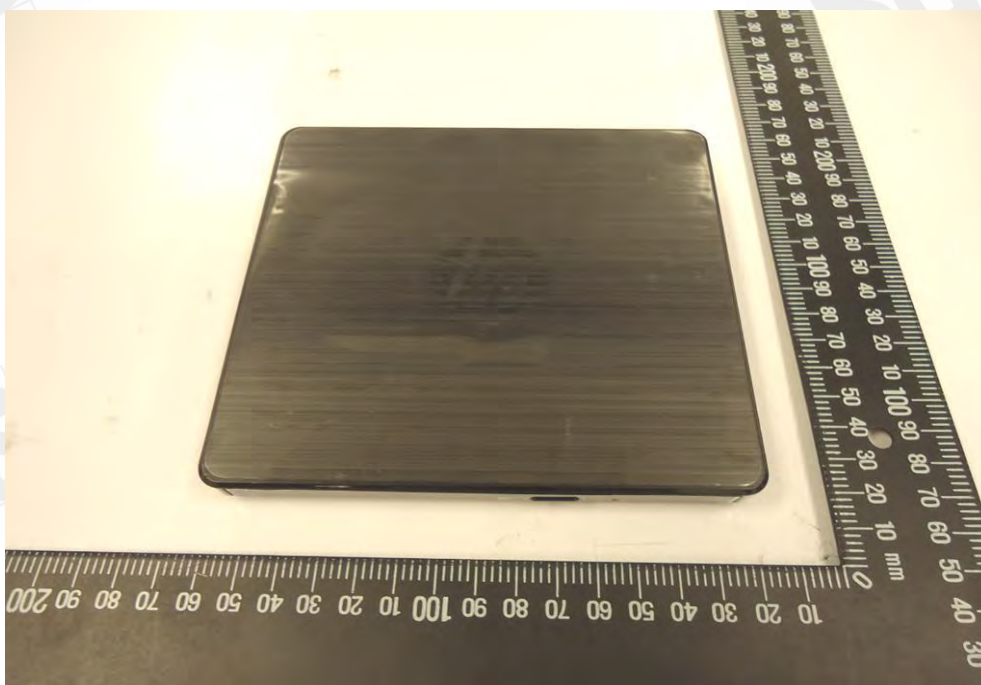
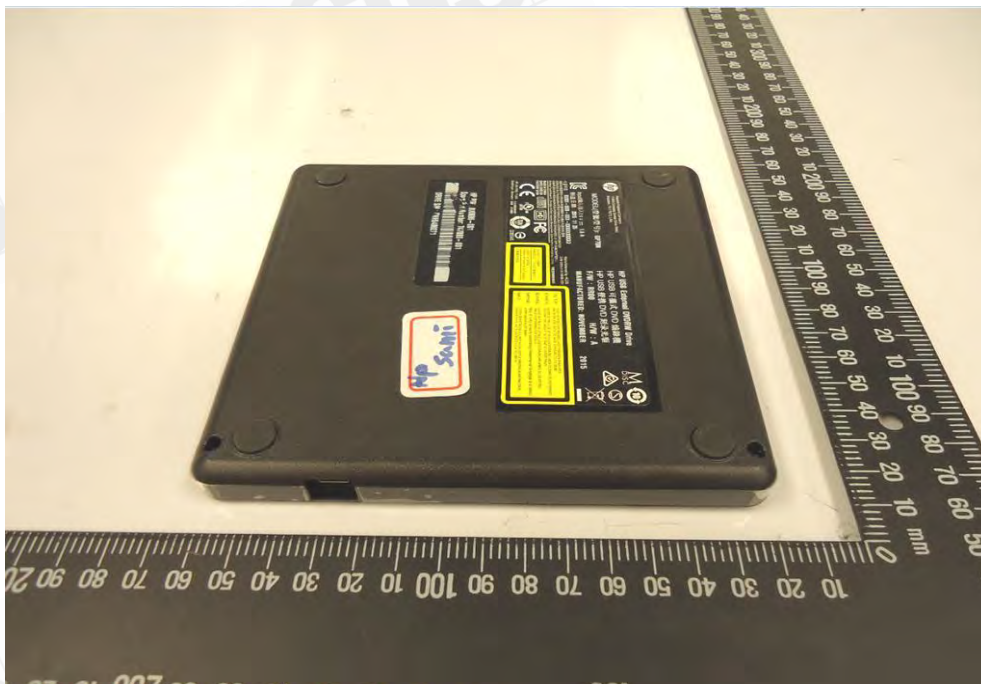


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External USB ODD Model No.: GP70N



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Active pen Model No.: Y0C43AV



Active pen Model No.: 1CP24AV



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Active pen Model No.: 1TD47AV



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Active pen Model No.: 1SC98AV



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