

FCC SDoC REPORT

ICES-003 TEST REPORT

Base On Test Report No. : T200723L11-F
Applicant : Quanta Computer Inc.
Address : No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)
Manufacturer : Quanta Computer Inc.
Address : No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

Equipment Under Test (EUT) :
Product Name : Notebook Computer
Brand Name : HP
Model No. : TPN-Q250
Added Model(s) : N/A
Standards : 47 CFR FCC Part 15 Subpart B (Class B)
ICES-003 Issue 7: October 2020 (Class B)
Date of Sample Receipt : Jun. 10, 2021
Date of Test : Jun. 10 ~ 16, 2021
Date of Issue : Jun. 25, 2021

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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Approved By:



Date:

Jun. 25, 2021



Hex Chiang (Supervisor)

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Revision History

Revision	Report Number	Description	Issue Date
00	T200723L11-F	Original	Aug. 24, 2020
01	T210604L04-F	See the following Note Rev. (01)	Jun. 25, 2021

Note:

Rev. (01):

1. Applicant adds new appearance and keypart (CPU, Memory, 13.5" LCD Panel, SSD and Wireless WAN) to re-test. (Please refer to have ** mark items on this report and external photographs on this report)
2. Applicant upgrades standard version from ISED ICES-003 Issue 6: 2016 to ISED ICES-003 Issue 7: October 2020 to add below 1GHz Radiation Emission test for ISED ICES-003 Issue 7.
3. Other information, please refer to the T200723L11-F and this test report.

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

1.2 General Description of EUT

Product Name : Notebook Computer
Brand Name : HP
Model No. : TPN-Q250
Added Model(s) : N/A
Variant Description : See the following note.

Note:

1. According to customer declaration, there are two types for sale, there are identical just for SIM Card port. Please refer to the external photographs for the detail information.

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1.3 Details of EUT

Power Supply	AC 100 ~ 240V	
Highest operate description	5.8GHz	
AC Adapter	Artesyn	TPN-TA02
	Chicony	TPN-CA06
		TPN-CA10
	Lite-On	TPN-LA12
	AcBel	TPN-AA03
Adapter Rating	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	
	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	
AC Power Cord Type	Shielded, 1.8m (Detachable) to Power Adaptor	
DC Power Cable Type	For Type C Shielded, 1.8m (Non-Detachable) to Power Adapter	
Memory	**	LPDDR4X 4266 (16GB/32GB/ 64GB)
Main Board	Quanta	X3C
CPU	Intel	i5-1135G7 (2.4GHz)
		i7-1165G7 (2.8GHz)
13.3" LCD Panel	SDC	ATNA35VJ01
	IVO	X135NV41
	** INX	N135NCG-GT1
	LGD	LP135WU1
Touch Screen	LAIBAO	ST135SN003AKM
		ST135SN005AKM
		ST135SN005DKM
	TPK	T07CN135R001A
		T07CN135R002A

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SSD	**	Hynix	HFS256GDE9X073N (256GB)	
			** HFS512GDE9X073N (512GB)	
			** HFS001TDE9X073N (1TB)	
	Intel			HBRPEKNX0101AH (256GB)
				HBRPEKNX0202AH (512GB)
				** HBRPEKNL0202AH (512GB)
				** HBRPEKNL0203AH (1TB)
				HBRPEKNX0203AH (1TB)
	Kioxia			KXG60ZNV256G (256GB)
				KXG60ZNV512G (512GB)
				KXG60ZNV1T02 (1TB)
				KXG60PNV2T04 (2TB)
	**	Micron		MTFDHBA256TDV-1AY1AABHA (256GB)
				** MTFDHBA512TDV-1AZ1AABHA (512GB)
				** MTFDHBA1T0TDV-1AZ1AABHA (1TB)
	Samsung			MZVLB256HBHQ-000H1 (256GB)
				** MZVL2256HCHQ-00BH1 (256GB)
				MZVLB512HBHQ-000H1 (512GB)
				** MZVL2512HCJQ-00BH1 (512GB)
				MZVLB1T0HBLR-000H1 (1TB)
				** MZVL21T0HCLR-00BH1 (1TB)
				MZVLB2T0HALB-000H1 (2TB)
	** MZVL22T0HBLB-00BH1 (2TB)			
	Western Digital			SDBPNTY-256G-1006 (256GB)
				** SDCPNRY-256G-1006 (256GB)
				SDBPNTY-512G-1006 (512GB)
				** SDCPNRY-512G-1006 (512GB)
SDBPNTY-1T00-1006 (1TB)				
** SDCPNRY-1T00-1006 (1TB)				
** SDBPNTZ-2T00-1106 (2TB)				
** SDCPNRZ-2T00-1006 (2TB)				

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Camera	TFC	YHSX-1
Wireless LAN	Intel	AX201D2W
**Wireless WAN	Fibocom	FM350-GL
Battery	Dynapack	HSTNN-DB9Z
External USB ODD	HP	GP70N
USB 3.0 to Gigabit adapter (optional)	HP	T4Q43AV
USB-C to HDMI 2.0 adapter (optional)	HP	1WU54AV
USB-C to USB-A Hub (Jake) (optional)	HP	1WU53AV
USB-C to USB-A Dongle (optional)	HP	P5U32AV
USB-C to RJ45 Gigabit adapter (optional)	HP	V2X31AV
USB-C to VGA adapter (optional)	HP	T4Q56AV
HP Thunderbolt Dock 230W G2 (Hook) (optional)	HP	HSN-IX01
HP Elite Thunderbolt 3 Dock (Trump) (optional)	HP	HSTNN-CX01
HP USB-C Dock G5 (Adicora-A) (optional)	HP	HSN-IX02
Active Pen (optional)	HP	8TS59AV
		8TS61AV

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Pre-test Mode

Mode	Main Board	CPU	Memory	LCD Panel	Touch Screen	SSD	Camera	Wireless LAN	Wireless WAN	Battery	Active pen (optional)	USB 3.0 to Gigabit adapter (optional) USB-C to HDMI 2.0 adapter (optional) USB-C to USB-A Hub (Jake) (optional) USB-C to USB-A Dongle (optional) USB-C to RJ45 Gigabit adapter (optional) USB-C to VGA adapter (optional) HP Thunderbolt Dock 230W G2 (Hook) (optional) HP Elite Thunderbolt 3 Dock (Trump) (optional) HP USB-C Dock G5 (Adicora-A) (optional)	AC Adapter
1	Quanta X3C	Intel i5-1155G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Hynix HFS256GDE9X073N (256GB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
2	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Hynix HFS512GDE9X073N (512GB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
3	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Hynix HFS0011DE9X073N (1TB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
4	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Intel HBRPEKNL0202AH (512GB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
5	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Samsung MZVL2512HCG-00BH1 (512GB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
6	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Intel HBRPEKNL0203AH (1TB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
7	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Micron MTFDHBAA256TDV-1A1Y1AABHA (256GB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
8	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Micron MTFDHBAA512TDV-1AZ1AABHA (512GB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
9	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Micron MTFDHBAA110TDV-1AZ1AABHA (1TB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
10	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Samsung MZVL2256HQ-00BH1 (256GB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
11	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Samsung MZVL2110HCLR-00BH1 (1TB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
12	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Samsung MZVL2210HBLB-00BH1 (2TB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
13	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Western Digital SDCPNRY-256G-1006 (256GB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
14	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Western Digital SDCPNRY-512G-1006 (512GB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
15	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Western Digital SDCPNRY-1T00-1006 (1TB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
16	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Western Digital SDBPNTZ-2T00-1106 (2TB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	Artesyn TPN-TA02
17	Quanta X3C	Intel i7-1195G7 (2.9GHz)	LPDDR4X 4266 (32GB)	INX N135NCG-GT1	LAIBAO ST135SN003AKM	Western Digital SDCPNRZ-2T00-1006 (2TB)	TFC YHSX-1	Intel AX201D2W	Fibocom FM350-GL	Dynapack HSTNN-DB9Z	HP 8T561AV	HP HSN-IX02	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 5 (1920 x 1280 Resolution)
Below 1GHz RE	Mode 5 (1920 x 1280 Resolution)
Above 1GHz RE	Mode 5 (1920 x 1280 Resolution)

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1.5 Description of Support Units

Mode 5:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
Micro SD 8G	Transcend	N/A	N/A
HDD	WD	My Passport	WXB1AA4EEJ9P
HDD	WD	My Passport	WXD1E849K9YF
HDD	WD	My Passport	WX21E54RD766
HDD	WD	My Passport	WX91A744F4NL
HDD	WD	My Passport	WX41A946S312
Earphone	Lenovo	GS-4021M	57Y4488
Earphone	Lenovo	GS-4021M	57Y4488
Mouse	HP	MOAFUO	PSB1030013577
Notebook PC (Remote)	DELL	INSPIRON 640m	CN-0MG532-70166-75G-03AP
Wireless AP (Remote)	ASUS	RT-AX88U	L41THP000064
SIM Card	VIBO	N/A	N/A
UXM 5G Wireless Test Platform (Remote)	KEYSIGHT	E7515B	N/A
GPS simulator (Remote)	IFR	GPS-101	N/A

Support Equipment Used in Tested Cable

Mode 5:

Cable Type	Core	Length	Shielding/Non-shielding
DC Power Cable (1)	N/A	1.8m	Non-Shielding
Type C Cable (2)	N/A	1.0m	Shielding
HDMI Cable (3)	N/A	1.8m	Shielding
DP Cable (4)	N/A	1.8m	Shielding
Type C Cable (5)	N/A	0.1m	Shielding
Earphone Cable (6)*2	N/A	1.8m	Non-Shielding
USB HDD Cable (7)*5	N/A	0.6m	Shielding
USB Mouse Cable (8)	N/A	1.8m	Shielding
LAN Cable (9)	N/A	10.0m	Non-Shielding

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1.6 Operation Procedure

Mode 5:

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

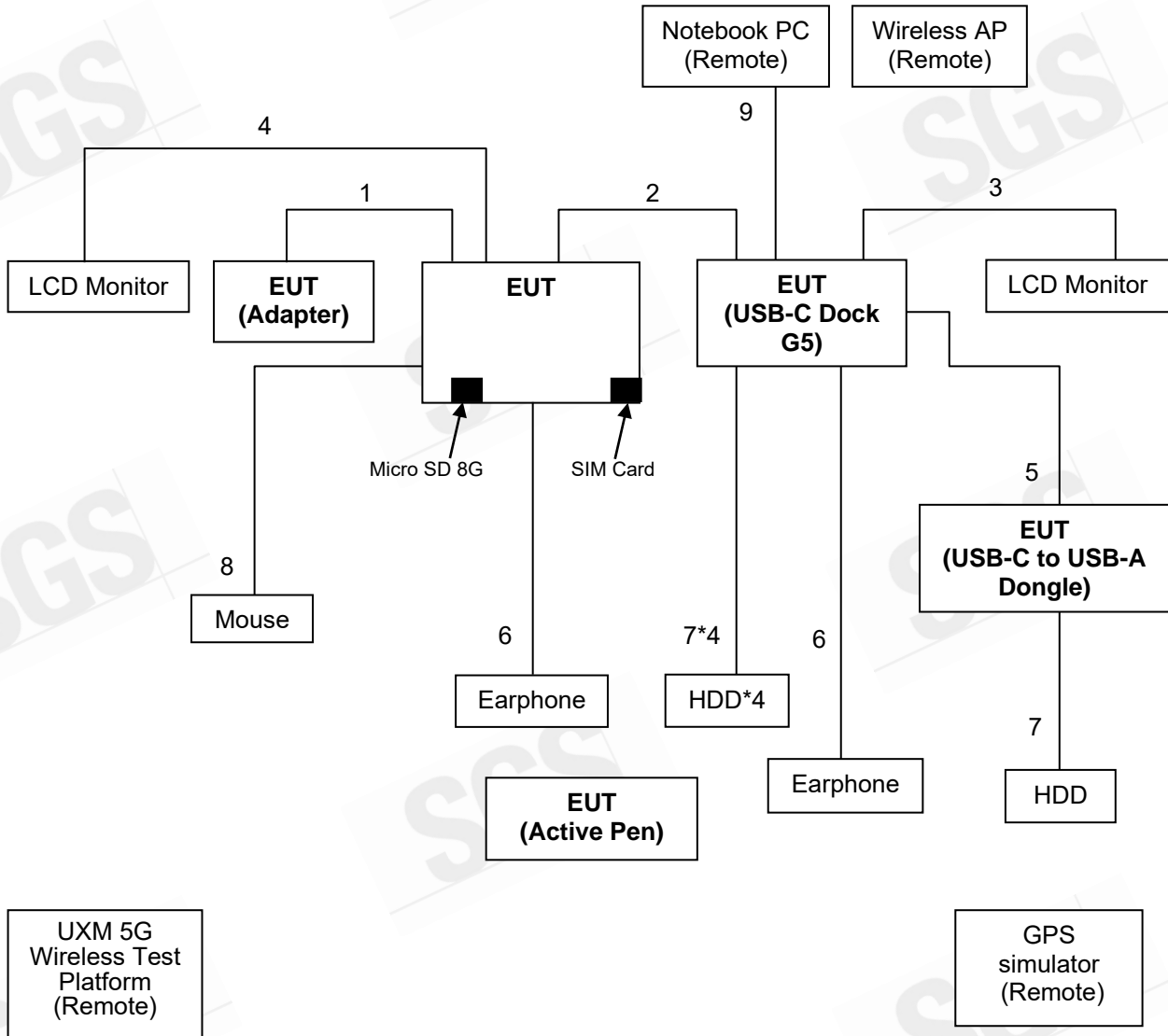
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1.7 Test Set-Up Configuration

Mode 5:



1.8 Accessories Cable List

See clause 1.3 of this report

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1.9 Measurement Procedure

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

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

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

1.10 Standards Applicable for Testing

Tests to be carried out under 47 CFR FCC Part 15 Subpart B/CISPR 22/ICES-003

Test Standards	Status
47 CFR FCC Part 15 Subpart B CISPR 22 ICES-003	Applicable
Deviation from Standard	No deviation

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1.11 Decision Rules of Results

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

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

1.12 Summary of Results

Standard	Test Type	Result
47 CFR FCC Part 15 Subpart B (Class B)	Conducted Emission	PASS
ICES-003 Issue 7: October 2020 (Class B)	Radiated Emission	PASS

1.13 Reporting Statements of Conformity

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

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2. EMISSION

2.1 Test Results

Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

47 CFR FCC Part 15 Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

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

ICES-003:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : 30 MHz to 5thharmonic of the highest frequency or 40GHz, whichever is lower.

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

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

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2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

47 CFR FCC Part 15 Subpart B:

FREQUENCY (MHz)	Class A (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.

ICES-003:

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: The more stringent limit applies at transition frequencies.

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

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2.3.2 Limits of Radiated Emissions

47 CFR FCC Part 15 Subpart B Limit:

- Detector Function : Quasi – Peak

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

- Detector Function : Peak , Average

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

CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	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.

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ICES-003 Limit:

- Detector Function : Quasi-peak

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

Note: The more stringent limit applies at transition frequencies

- Detector Function : Peak, Average

Frequency (MHz)	Class A (3 m) (dBuV/m)		Class B (3 m) (dBuV/m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

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2.4. Test of Conducted Emission

2.4.1 Test Equipments

Conducted Emission Conducted Room No.B_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	EMCI	EMCRG142	190809	04/28/2021	04/27/2022
EMI Test Receiver	R&S	ESCI	101073	07/01/2020	06/30/2021
LISN	Schwarzbeck	NSLK8128	5012	04/07/2021	04/06/2022
LISN	SCHWARZBECK	NSLK 8127	01022	04/15/2021	04/14/2022
Software	CCS-3A1-CE				
Compliance Certification Services Inc. (Wugu Laboratory)					
Testing Site: No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Conducted Emission					
Expanded uncertainty U _{lab} (k=2) of Conducted Emission is 3.06 dB.					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Conducted Emission measurement is 3.44 dB					

2.4.2 Measurement Level Calculation

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

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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2.4.3 Measurement Data:

Model no.	TPN-Q250	Line:	L1
Environmental Conditions	24°C, 50% RH	Tested Date	2021/06/10
Test Mode	Mode 5	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	0.1940	54.67	36.00	0.14	54.81	36.14	63.86	53.86	-9.05	-17.72	Pass
2	0.2020	53.52	36.52	0.14	53.66	36.66	63.52	53.53	-9.86	-16.87	Pass
3*	0.2100	54.45	38.71	0.14	54.59	38.85	63.20	53.21	-8.61	-14.36	Pass
4	0.2460	46.23	19.42	0.14	46.37	19.56	61.89	51.89	-15.52	-32.33	Pass
5	3.6140	37.63	23.42	0.26	37.89	23.68	56.00	46.00	-18.11	-22.32	Pass
6	4.0700	37.50	23.93	0.28	37.78	24.21	56.00	46.00	-18.22	-21.79	Pass

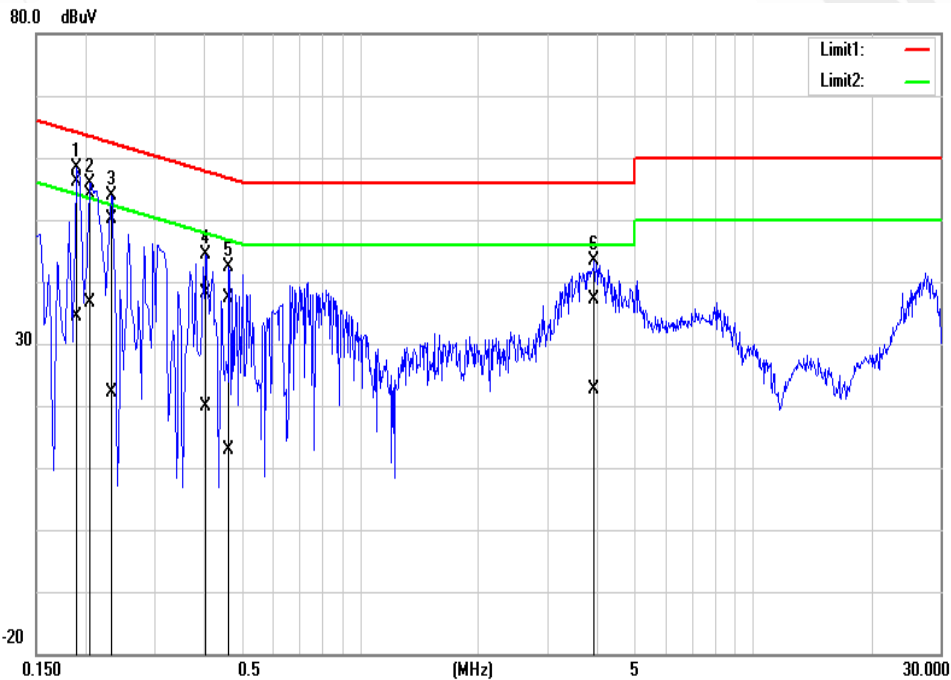
Note: L1 = Live Line

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Model no.	TPN-Q250	Line:	N
Environmental Conditions	24°C, 50% RH	Tested Date	2021/06/10
Test Mode	Mode 5	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1*	0.1900	56.06	34.15	0.15	56.21	34.30	64.03	54.04	-7.82	-19.74	Pass
2	0.2060	53.92	36.43	0.15	54.07	36.58	63.36	53.37	-9.29	-16.79	Pass
3	0.2340	49.97	22.07	0.15	50.12	22.22	62.30	52.31	-12.18	-30.09	Pass
4	0.4060	38.00	19.82	0.17	38.17	19.99	57.73	47.73	-19.56	-27.74	Pass
5	0.4660	37.30	12.81	0.17	37.47	12.98	56.58	46.58	-19.11	-33.60	Pass
6	3.9620	36.86	22.26	0.29	37.15	22.55	56.00	46.00	-18.85	-23.45	Pass

Note: N = Neutral Line

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

Radiated_Below_1GHz 10m EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Bilog Antenna	TESEQ	CBL 6112D	31674	02/22/2021	02/21/2022
Bilog Antenna	TESEQ	CBL 6112D	31675	03/15/2021	03/14/2022
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	330029	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	104PEA	33948/4PEA	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	104PEA	33949/4PEA	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	24813	04/28/2021	04/27/2022
EMI Test Receiver	R&S	ESCI	100961	05/25/2021	05/24/2022
EMI Test Receiver	R&S	ESCI	100962	06/02/2021	06/01/2022
Pre-Amplifier	HP	8447D	2944A07754	04/28/2021	04/27/2022
Pre-Amplifier	HP	8447D	2944A08150	04/28/2021	04/27/2022
AC POWER SOURCE	APE	AFC-130	991259	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	EZ-EMC (CCS-3A1RE)				
Compliance Certification Services Inc. (Wugu Laboratory)					
Testing Site: No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty U _{lab} (k=2) of Radiated Emission is 4.15 dB. (30MHz-1GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.22 dB. (30MHz-1GHz)					

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Above 1GHz

Radiated_Above_1GHz 10m EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	329383	04/28/2021	04/27/2022
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	33945	04/28/2021	04/27/2022
Horn Antenna	ETS LINDGREN	3116	00026370	12/11/2020	12/10/2021
Horn Antenna	EMCO	3117	00055167	12/01/2020	11/30/2021
Pre-Amplifier	EMCI	EMC051845	980040	04/28/2021	04/27/2022
Pre-Amplifier	MITEQ	AMF-6F- 18004000-37-8P	985646	09/02/2020	09/01/2021
Spectrum Analyzer	Agilent	E4446A	MY48250297	08/24/2020	08/23/2021
AC POWER SOURCE	APE	AFC-130	991259	N.C.R	N.C.R
Antenna Tower	Sunol Sciences	TLT2	031010-5	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	031010-1	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	EZ-EMC (CCS-3A1RE)				
Compliance Certification Services Inc. (Wugu Laboratory)					
Testing Site: No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.)					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty U _{lab} (k=2) of Radiated Emission measurement is 4.94 dB. (1-6GHz)					
Expanded uncertainty U _{lab} (k=2) of Radiated Emission measurement is 5.24 dB. (6-18GHz)					
Expanded uncertainty U _{lab} (k=2) of Radiated Emission measurement is 4.28 dB. (18-40GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.18 dB. (1-6GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.48 dB. (6-18GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is --- dB. (18-40GHz)					

2.5.2 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss - Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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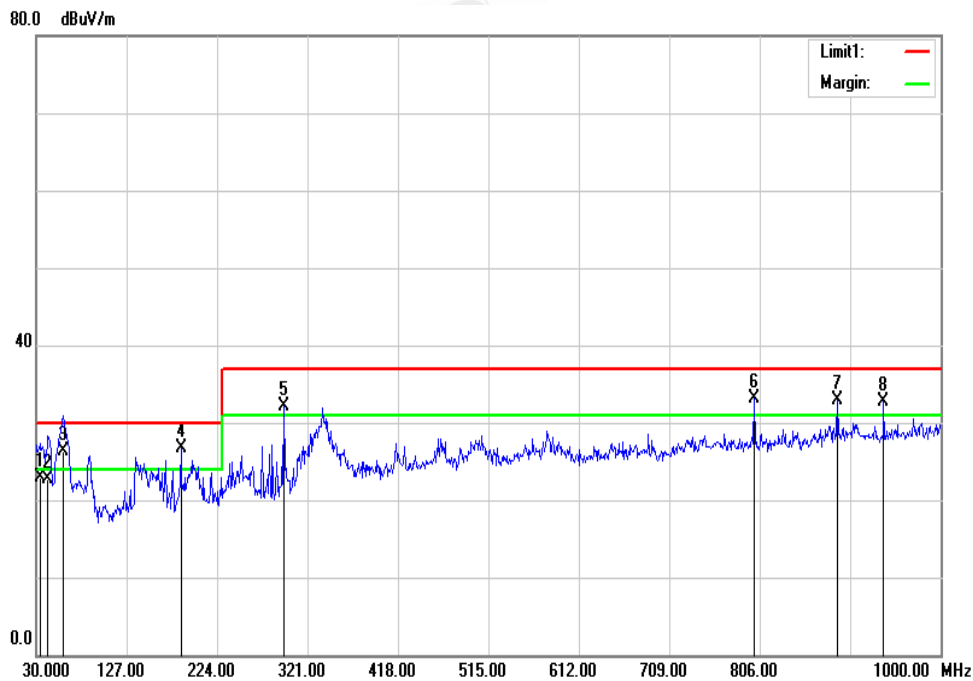
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2.5.3 Measurement Data

Below 1GHz

Model no.	TPN-Q250	Test Mode	Mode 5
Environmental Conditions	24°C, 53% RH	Tested Date	2021/06/16
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	34.8500	27.61	-4.80	22.81	30.00	-7.19	199	131	QP
2	42.6100	31.72	-9.10	22.62	30.00	-7.38	265	0	QP
3	59.1000	40.93	-14.59	26.34	30.00	-3.66	300	42	QP
4	185.2000	36.71	-10.02	26.69	30.00	-3.31	100	164	QP
5	295.7800	36.80	-4.64	32.16	37.00	-4.84	100	309	QP
6	800.1800	29.49	3.71	33.20	37.00	-3.80	199	330	QP
7	889.4200	27.89	4.99	32.88	37.00	-4.12	199	359	QP
8	938.8900	27.22	5.42	32.64	37.00	-4.36	199	359	QP

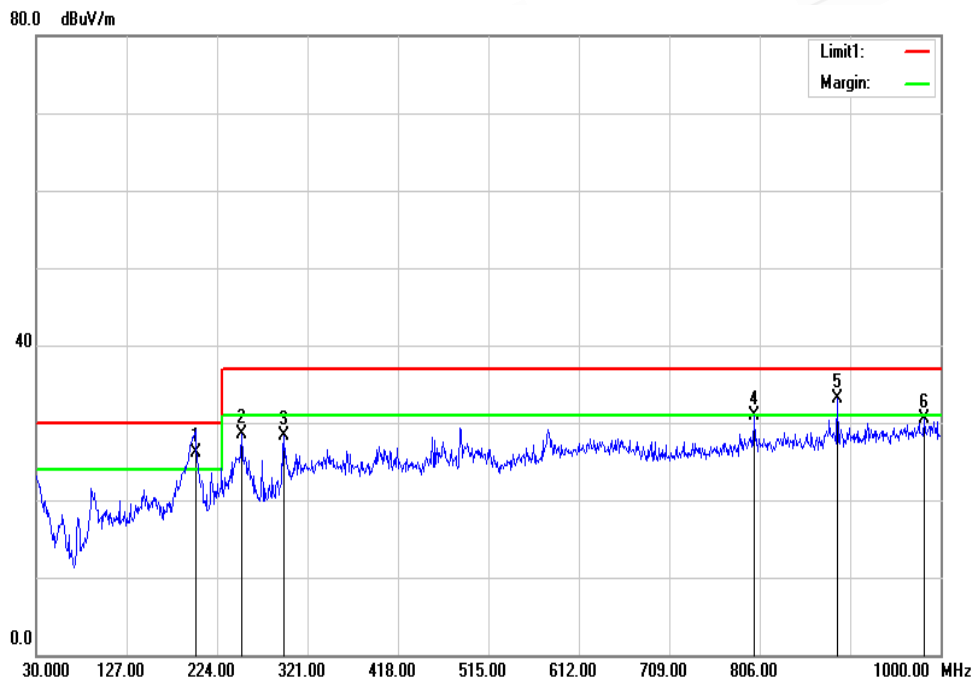
REMARKS: The other emission levels were very low against the limit.

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Model no.	TPN-Q250	Test Mode	Mode 5
Environmental Conditions	24°C, 53% RH	Tested Date	2021/06/16
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	FCC Part 15 Subpart B		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	200.7200	36.79	-10.78	26.01	30.00	-3.99	300	357	QP
2	250.1900	35.73	-7.17	28.56	37.00	-8.44	399	135	QP
3	295.7800	34.44	-6.16	28.28	37.00	-8.72	200	271	QP
4	800.1800	29.37	1.55	30.92	37.00	-6.08	100	254	QP
5	889.4200	30.45	2.57	33.02	37.00	-3.98	100	59	QP
6	982.5400	26.85	3.74	30.59	37.00	-6.41	100	245	QP

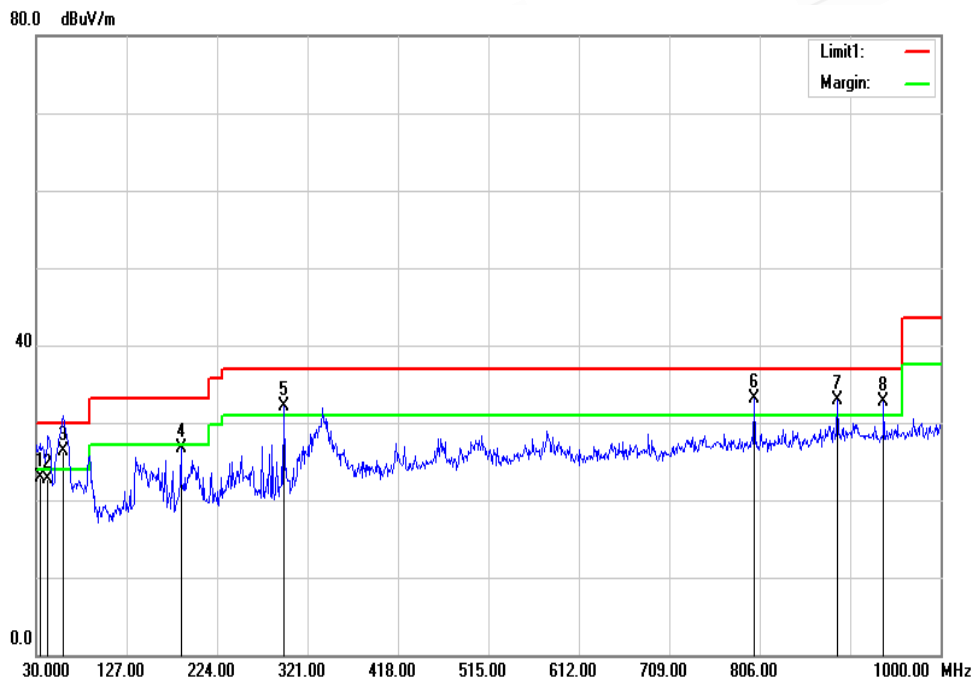
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Model no.	TPN-Q250	Test Mode	Mode 5
Environmental Conditions	24°C, 53% RH	Tested Date	2021/06/16
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	34.8500	27.61	-4.80	22.81	30.00	-7.19	199	131	QP
2	42.6100	31.72	-9.10	22.62	30.00	-7.38	265	0	QP
3	59.1000	40.93	-14.59	26.34	30.00	-3.66	300	42	QP
4	185.2000	36.71	-10.02	26.69	33.10	-6.41	100	164	QP
5	295.7800	36.80	-4.64	32.16	37.00	-4.84	100	309	QP
6	800.1800	29.49	3.71	33.20	37.00	-3.80	199	330	QP
7	889.4200	27.89	4.99	32.88	37.00	-4.12	199	359	QP
8	938.8900	27.22	5.42	32.64	37.00	-4.36	199	359	QP

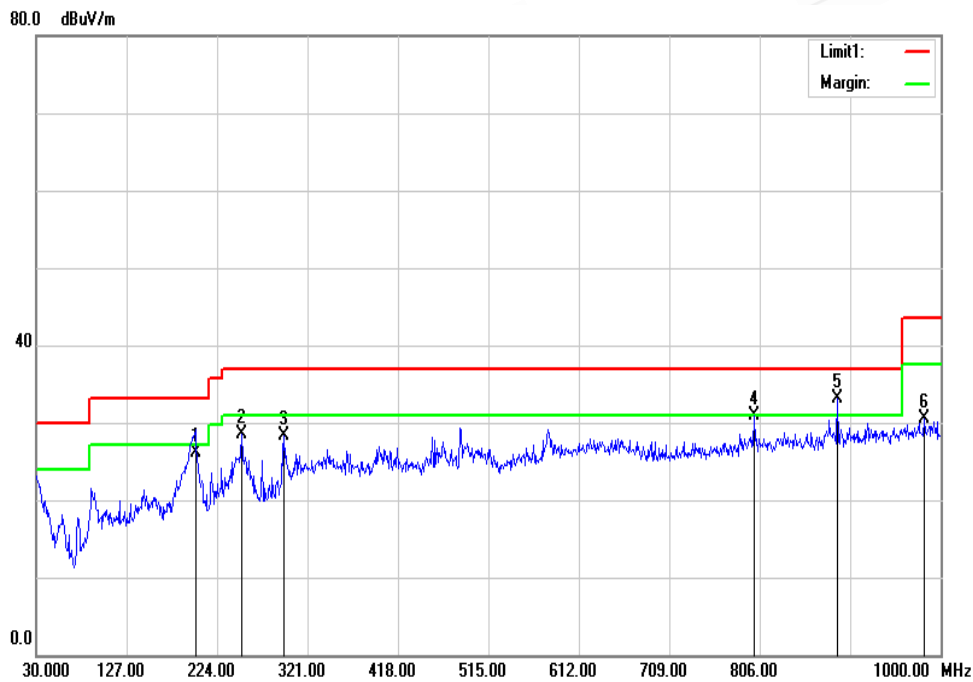
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Model no.	TPN-Q250	Test Mode	Mode 5
Environmental Conditions	24°C, 53% RH	Tested Date	2021/06/16
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17
Standard	ISED ICES-003 Issue 7		



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	200.7200	36.79	-10.78	26.01	33.10	-7.09	300	357	QP
2	250.1900	35.73	-7.17	28.56	37.00	-8.44	399	135	QP
3	295.7800	34.44	-6.16	28.28	37.00	-8.72	200	271	QP
4	800.1800	29.37	1.55	30.92	37.00	-6.08	100	254	QP
5	889.4200	30.45	2.57	33.02	37.00	-3.98	100	59	QP
6	982.5400	26.85	3.74	30.59	43.50	-12.91	100	245	QP

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

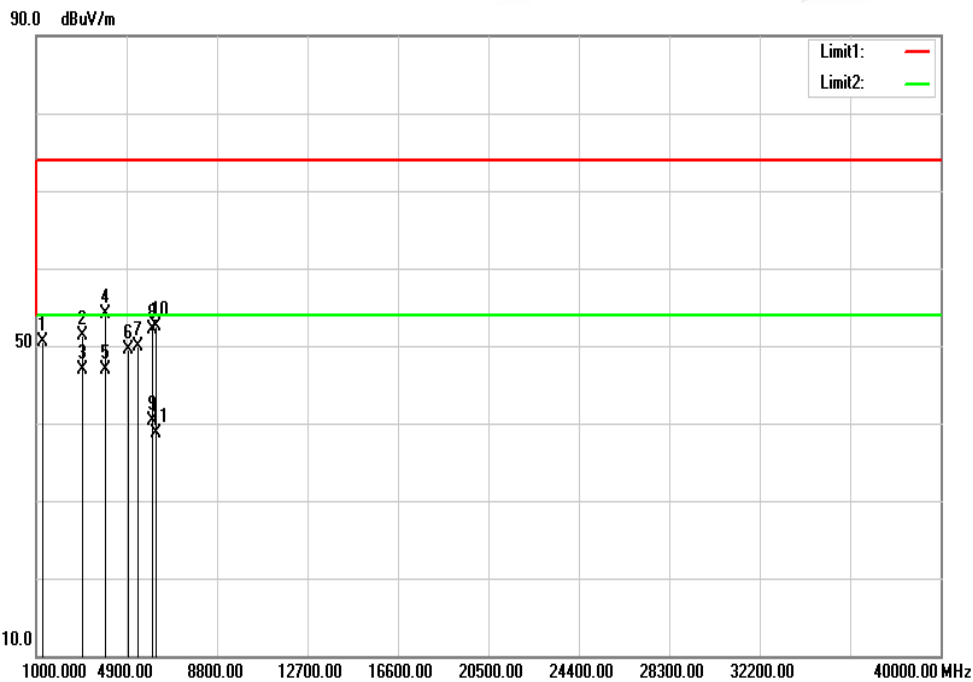
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Above 1GHz

Model no.	TPN-Q250	Test Mode	Mode 5
Environmental Conditions	24°C, 53% RH	Tested Date	2021/06/16
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	5.8GHz	Upper frequency	29GHz
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	1255.000	68.83	-18.27	50.56	74.00	-23.44	200	205	peak
2	2963.500	63.54	-12.15	51.39	74.00	-22.61	275	0	peak
3	2963.500	59.10	-12.15	46.95	54.00	-7.05	275	0	AVG
4	4000.500	64.87	-10.84	54.03	74.00	-19.97	100	179	peak
5	4000.500	57.72	-10.84	46.88	54.00	-7.12	100	179	AVG
6	4978.000	57.11	-7.64	49.47	74.00	-24.53	100	211	peak
7	5403.000	56.68	-6.81	49.87	74.00	-24.13	100	219	peak

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
8	6006.500	55.86	-3.69	52.17	74.00	-21.83	219	0	peak
9	6006.500	44.07	-3.69	40.38	54.00	-13.62	219	0	AVG
10	6176.500	56.67	-4.25	52.42	74.00	-21.58	179	360	peak
11	6176.500	42.98	-4.25	38.73	54.00	-15.27	179	360	AVG

REMARKS:

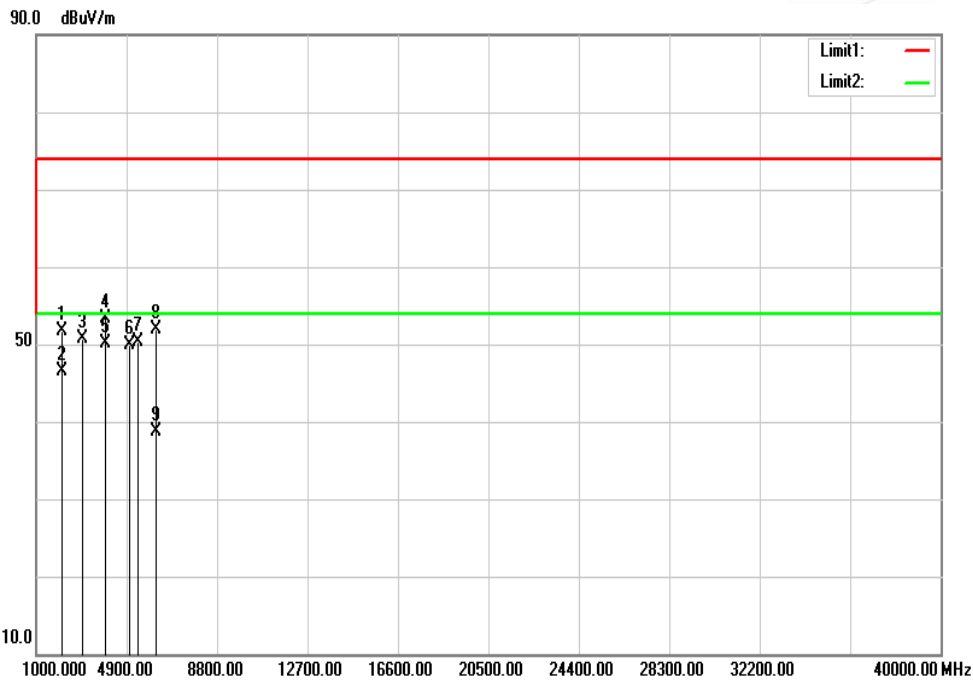
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	TPN-Q250	Test Mode	Mode 5
Environmental Conditions	24°C, 53% RH	Tested Date	2021/06/16
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	5.8GHz	Upper frequency	29GHz
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	2071.000	64.64	-13.00	51.64	74.00	-22.36	200	236	peak
2	2071.000	59.46	-13.00	46.46	54.00	-7.54	200	236	AVG
3	2963.500	62.92	-12.15	50.77	74.00	-23.23	200	307	peak
4	4000.500	64.23	-10.84	53.39	74.00	-20.61	100	164	peak
5	4000.500	61.03	-10.84	50.19	54.00	-3.81	100	164	AVG
6	4995.000	57.47	-7.57	49.90	74.00	-24.10	100	187	peak
7	5403.000	57.03	-6.81	50.22	74.00	-23.78	100	179	peak
8	6159.500	56.28	-4.30	51.98	74.00	-22.02	299	0	peak
9	6159.500	42.96	-4.30	38.66	54.00	-15.34	299	0	AVG

REMARKS:

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

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APPENDIX

Photograph of Testing General Set-up

CE Testing Set-up

Model No.: TPN-Q250

Mode 5_+



Mode 5_-



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RE Testing Set-up

Below 1GHz

Model No.: TPN-Q250

Mode 5_+



Mode 5_-



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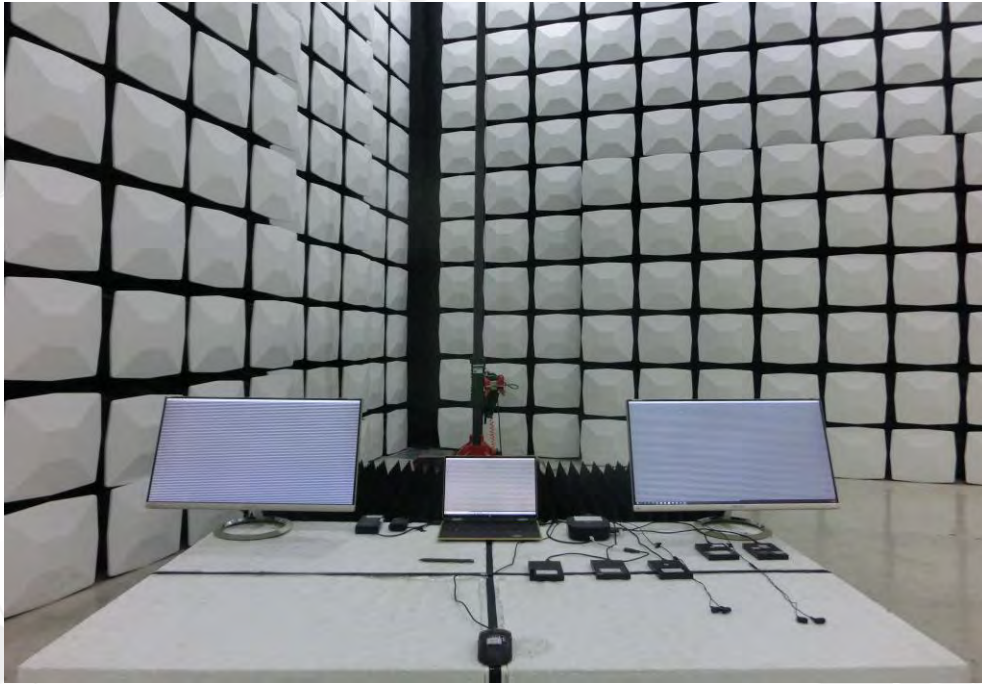
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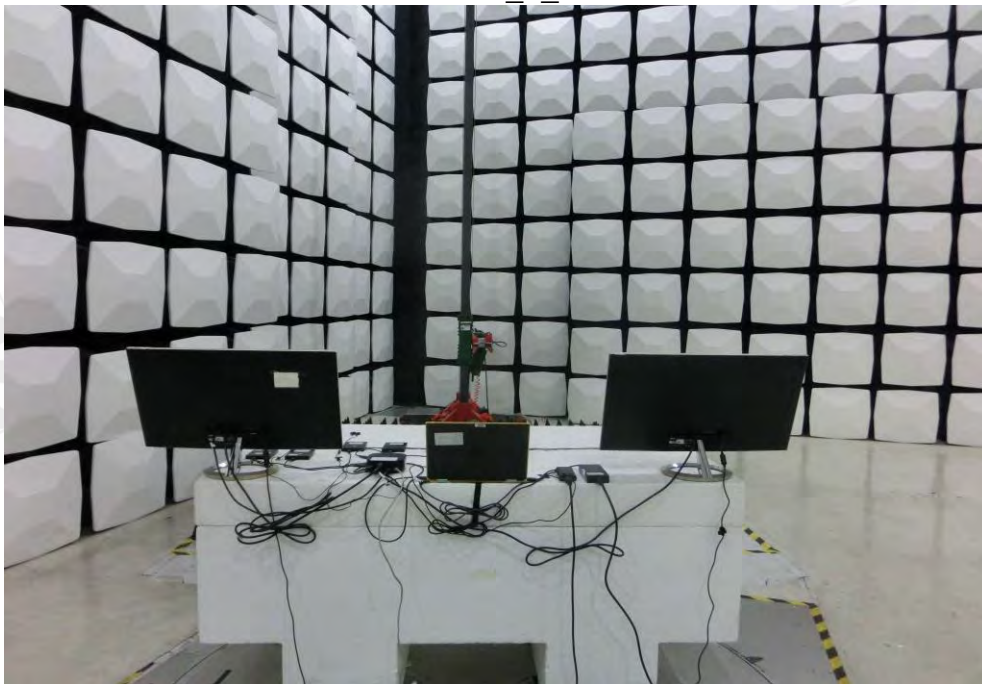
Above 1GHz

Model No.: TPN-Q250

Mode 5_+



Mode 5_-



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Photographs of Product
Exterior

Model No.: TPN-Q250 (Without SIM Card port)



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Model No.: TPN-Q250 (With SIM Card port)



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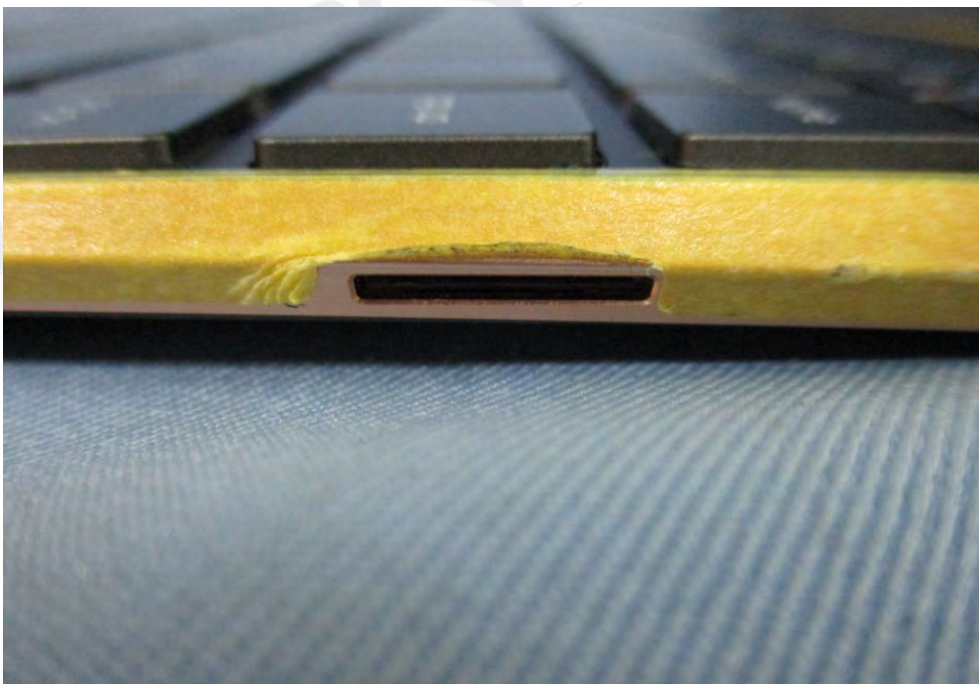
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Adapter Model No.: TPN-TA02



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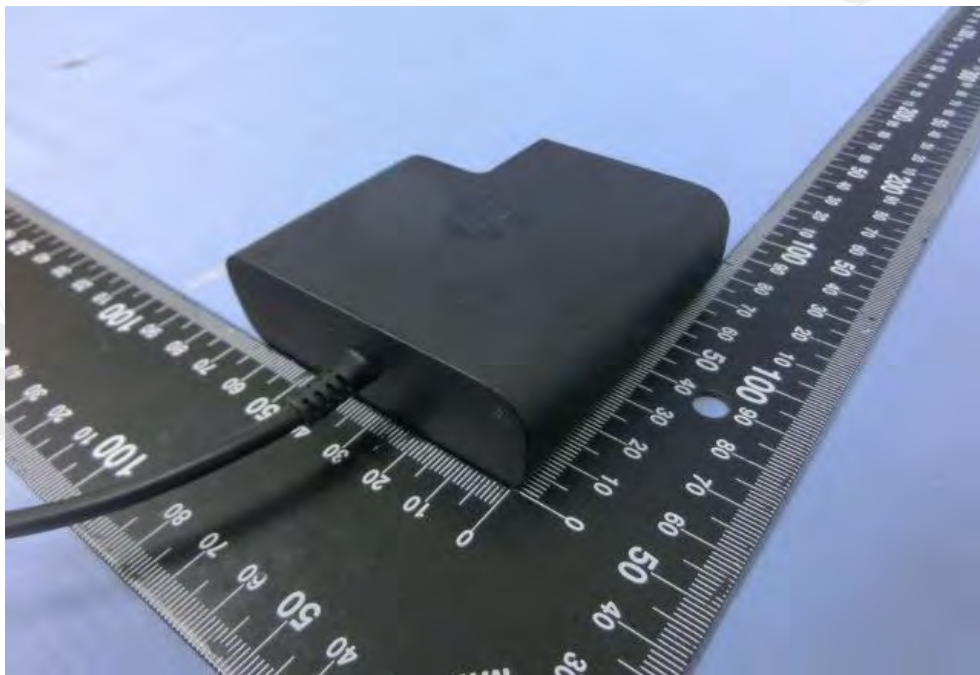


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Adapter Model No.: TPN-CA06



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Adapter Model No.: TPN-CA10



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Adapter Model No.: TPN-LA12



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Adapter Model No.: TPN-AA03



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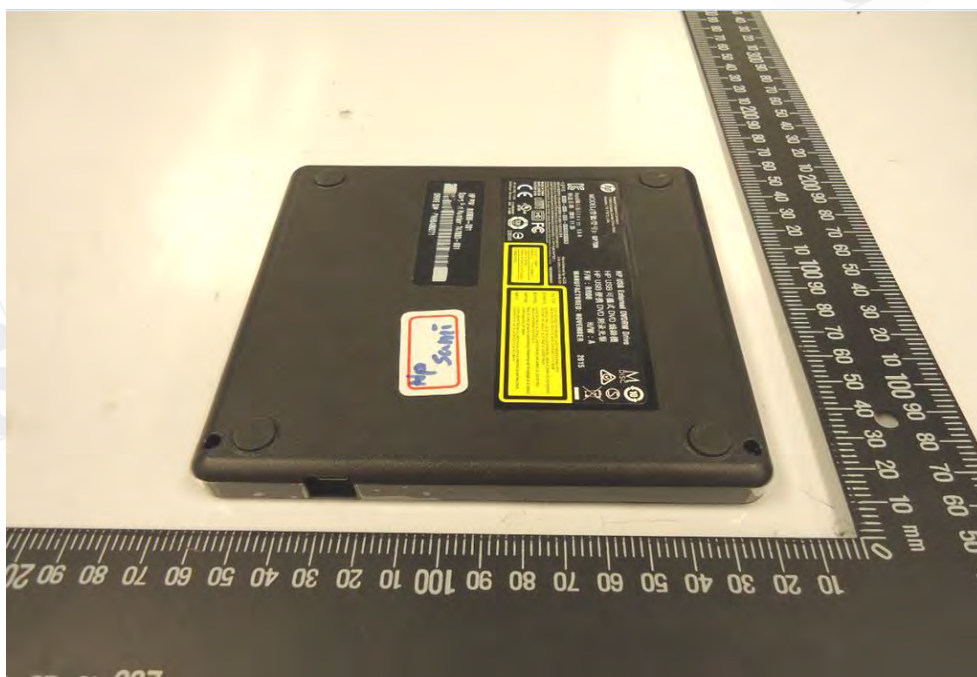


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External USB ODD Model No.: GP70N

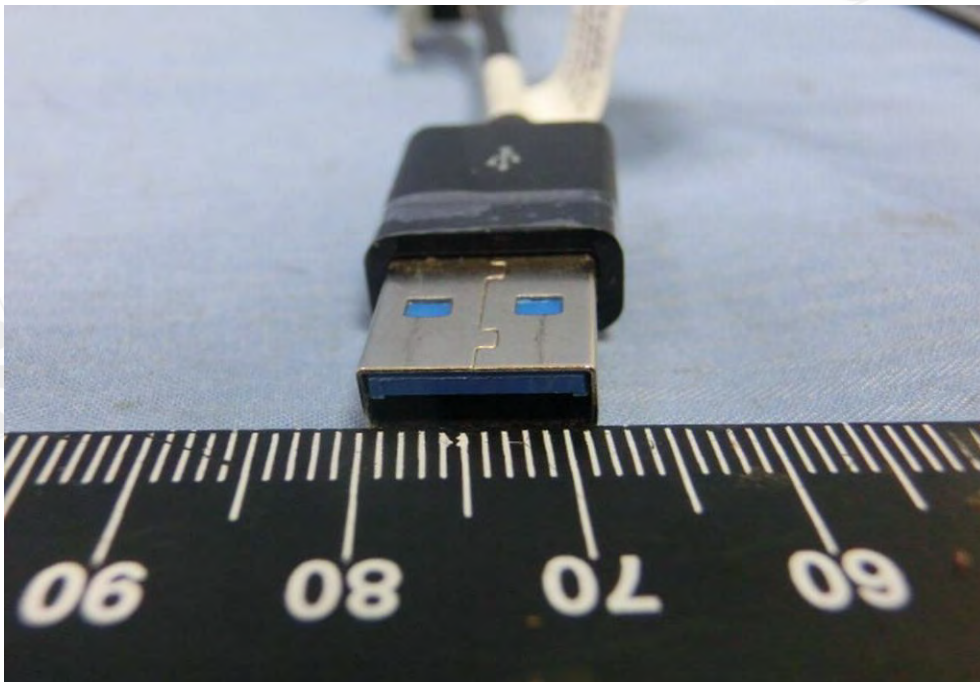


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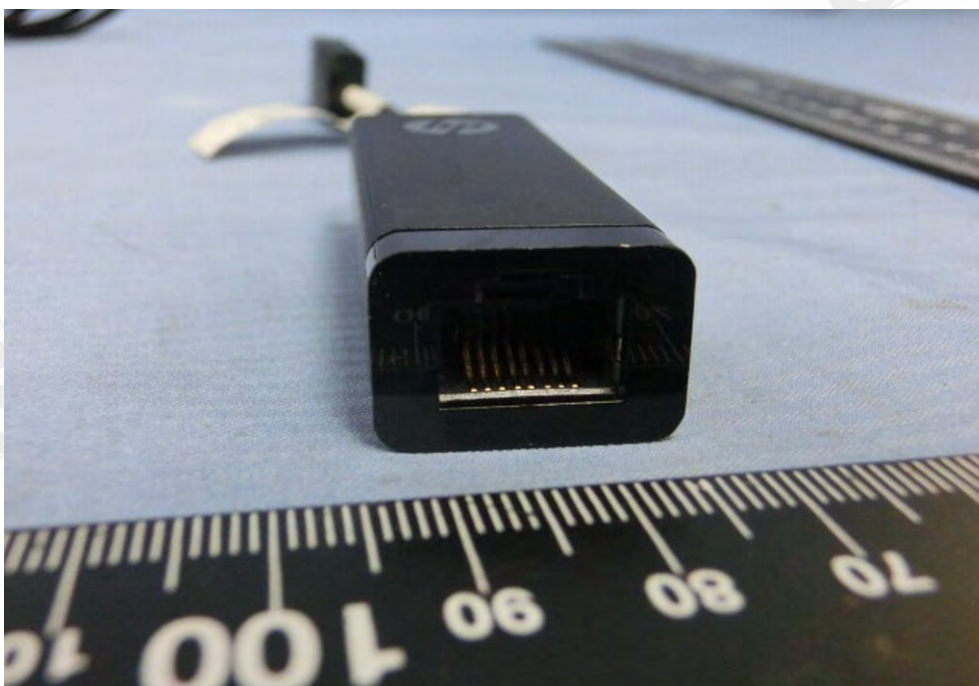
USB 3.0 to Gigabit adapter Model No.: T4Q43AV



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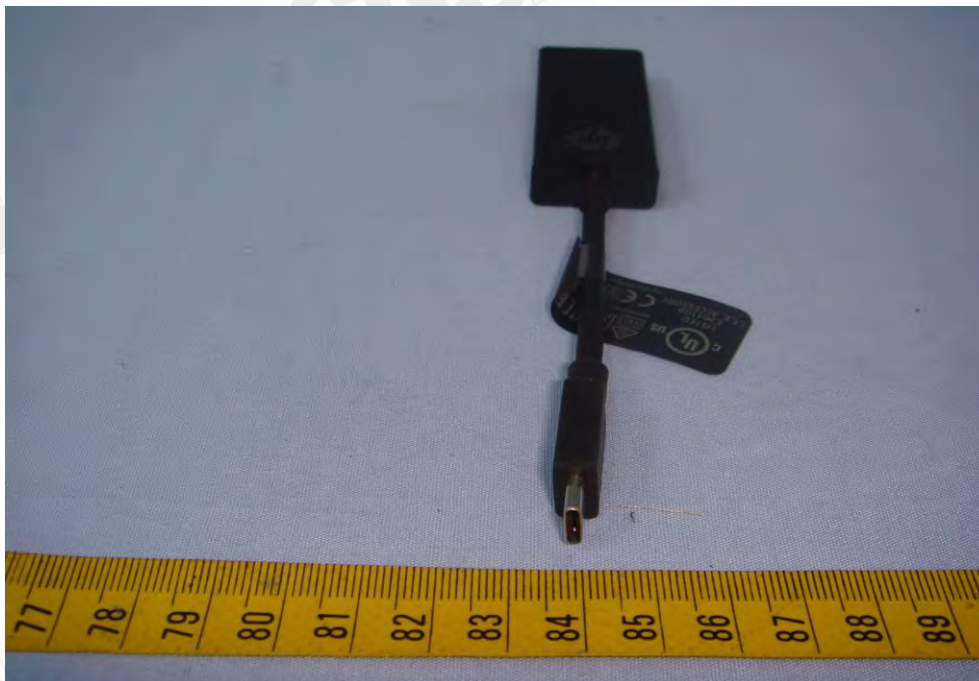
USB-C to HDMI 2.0 adapter Model No.: 1WU54AV



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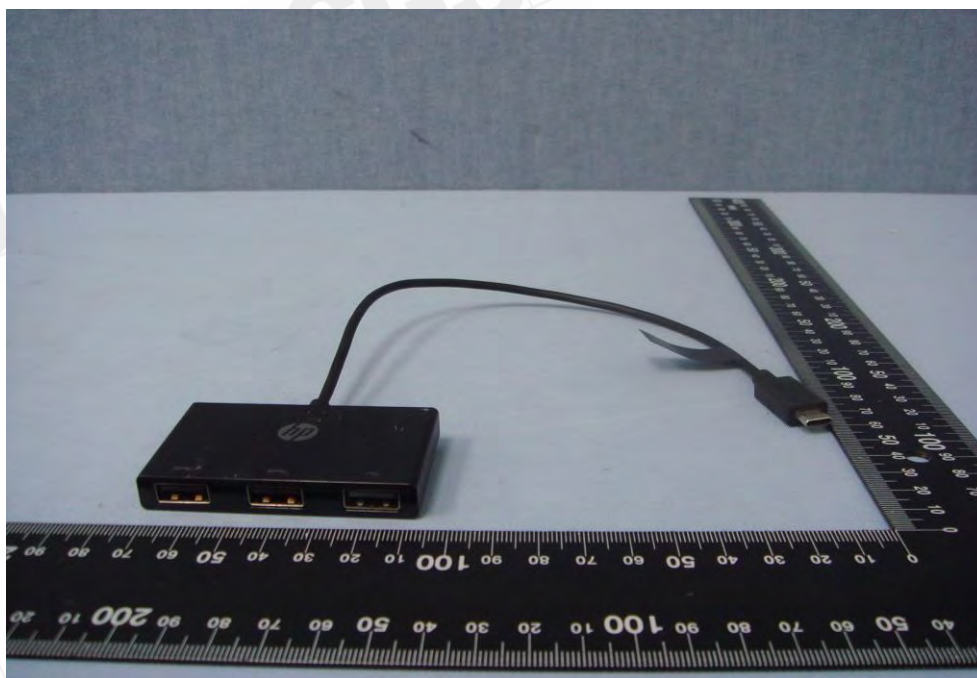
USB-C to USB-A Hub (Jake) Model No.: 1WU53AV



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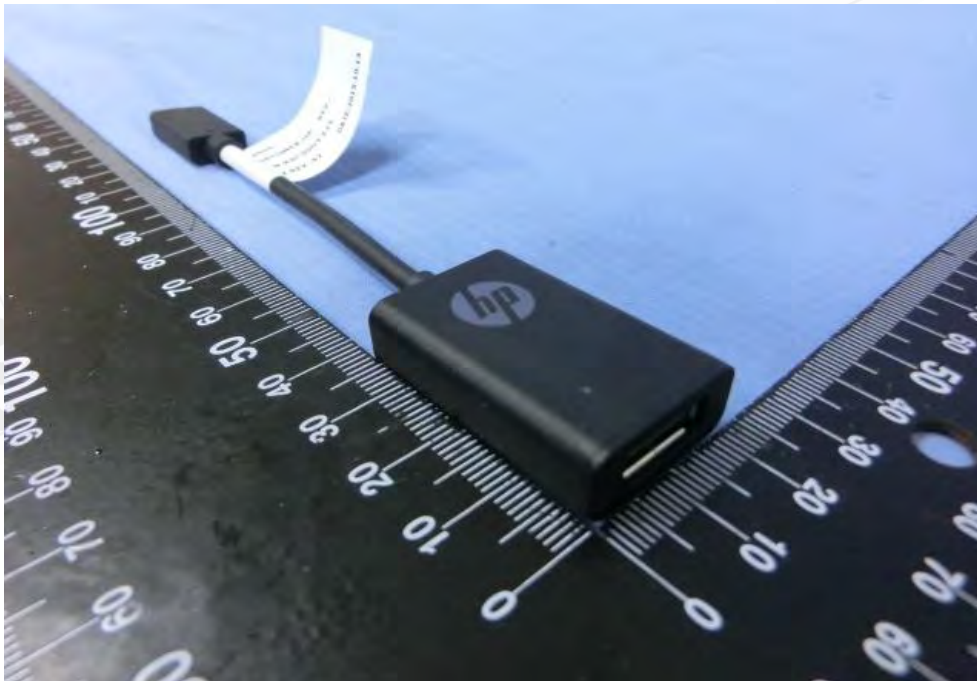


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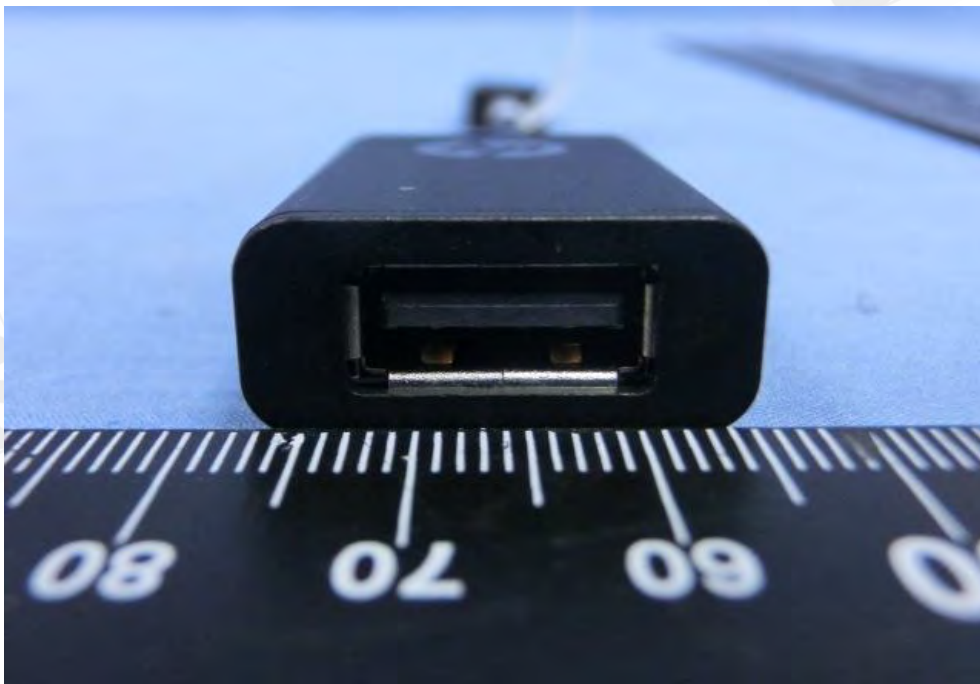
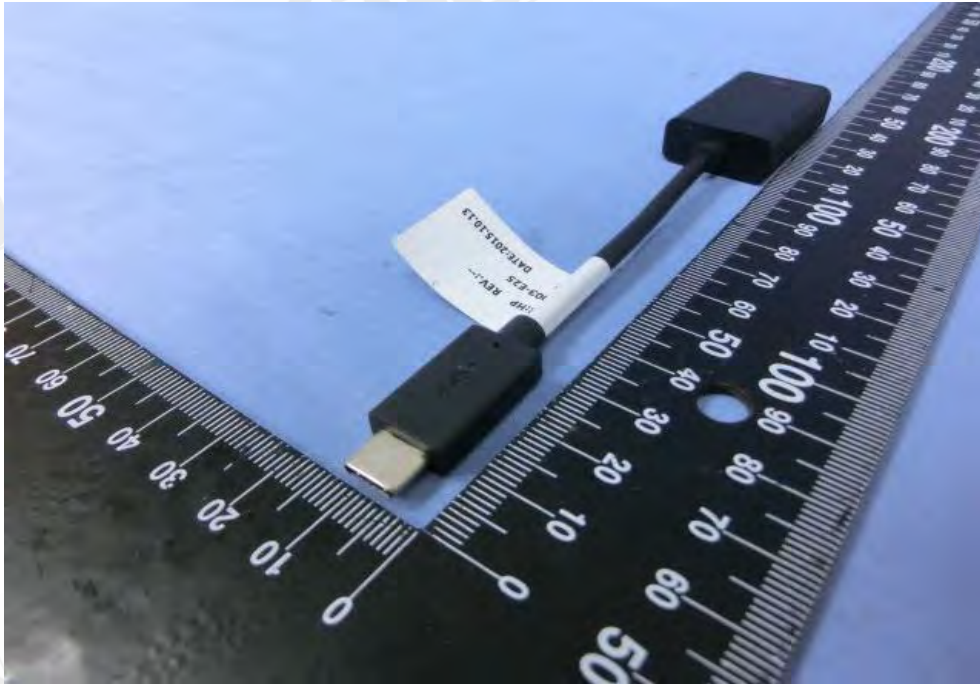
USB-C to USB-A Dongle Model No.: P5U32AV



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

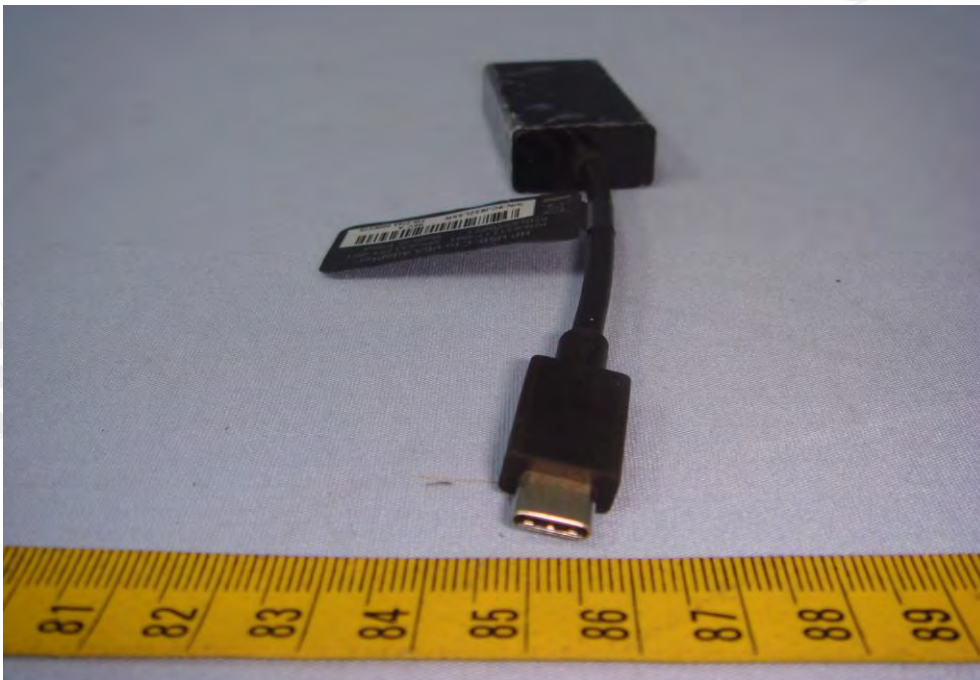


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USB-C to VGA adapter Model No.: T4Q56AV



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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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HP USB-C Dock G5 (Adicora-A) Model No.: HSN-IX02



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Active Pen Model No.: 8TS59AV



Active Pen Model No.: 8TS61AV



**** End of Report ****

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