

FCC SDoC REPORT

Canada ISED ICES-003 TEST REPORT

Test Report No. : T200414L01-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-Q248
Added Model(s) : N/A
Standards : FCC Part 15, Subpart B, Class B
ICES-003 Issue 6: 2016, Class B
Date of Sample Receipt : May 2, 2020
Date of Test : May 2 ~ 6, 2020
Date of Issue : May 22, 2020

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:

May 22, 2020



Hex Chiang (Asst. Section Manager)

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Revision History

Revision	Description	Issue Date	Remark
00	Original	May 22, 2020	T200414L01-F

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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-Q248
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	
AC Adapter	AcBel	TPN-AA07
	Chicony	TPN-CA20
		TPN-CA21
	Delta	TPN-DA15
		TPN-DA20
	Lite-On	TPN-LA19
	Honor	TPN-HA01
Adapter Rating	For TPN-AA07 ; TPN-CA20 ; TPN-DA15 ; TPN-LA19	
	I/P: 100-240Vac, 50-60Hz, 1.4A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 3A / 15Vdc, 3A	
	For TPN-CA21 ; TPN-DA20	
	I/P: 100-240Vac, 50-60Hz, 1.7A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 4.33A / 20Vdc, 3.25A	
	For TPN-HA01	
	I/P: 100-240Vac, 50/60Hz, 1.6A O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 5A / 15Vdc, 4.33A / 20Vdc, 3.25A	
AC Power Cord Type	Shielded, 1.8m (Detachable) to Power Adaptor	
DC Power Cable Type	Non-shielded, 1.8m (Non-Detachable) to Power Adapter	
Memory	8GB/16GB	
Main Board	Quanta	OGF
CPU	Intel	i3-10110U (2.1GHz)
		i5-10310U (1.7GHz)
		i7-10610U (1.8GHz)
13.5" LCD Panel	IVO	X135NV41
	LGD	LP135WU1
Touch Screen	LAIBAO	ST135FN002AKM
		ST135FN002EKM
	TPK	T08ALC13501HA
		T08ALC13501HB
SSD	Samsung	MZ9LQ128HBHQ-000H1 (128GB)
		MZ9LQ256HAJD-000H1 (256GB)
	Kingston	OM3PDP3256B-AH (256GB)

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SSD	Phison	PSEDN128GA17DC0 (128GB)
	Western Digital	SDAPTUW-128G-1006 (128GB)
		SDAPTUW-256G-1006 (256GB)
Wireless LAN	Intel	AX201D2W
Camera	Foxlink	FX10FF-774H-1
	TFC	YHKP-1
Battery	Dynapack	HSTNN-DB9W
Wireless WAN	Fibocom	L850-GL
HP USB-C to RJ45 Adapter	hp	V7W66AA#xxx
HP USB-C to HDMI 2.0 Adapter	hp	1WC36AA
HP USB-C to USB HUB (Jake)	hp	Z6A00AA
HP USB-C to VGA Adapter	hp	N9K76AA
HP USB-C Travel Dock G2 (Fox2)	hp	7PJ38AA
HP USB-C/A Universal Dock G2 (Adicora-D)	hp	HSN-IX02
HP USB-C Dock G5 (Adicora-A)	hp	HSN-IX02

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Pre-test Mode

Mode	Main Board	CPU	Memory	LCD Panel	Touch Screen	SSD	Wireless LAN	Camera	Battery	Wireless WAN	HP USB-C to RJ45 Adapter HP USB-C to HDMI 2.0 Adapter HP USB-C to USB HUB HP USB-C to VGA Adapter HP USB-C Travel Dock G2 (Fox2) HP USB-C/A Universal Dock G2 (Adicora-D) HP USB-C Dock G5 (Adicora-A)	AC Adapter
1	Quanta OGF	Intel i3-10110U (2.1GHz)	8GB	IVO X135NV41	LAIBAO ST135FN002 AKM	Samsung MZ9LQ128HBHQ-000H1 (128GB)	Intel AX201D2W	Foxlink FX10FF-774H-1	Dynapack HSTNN-DB9W	Fibocom L850-GL	hp V7W66AA#xxx	AcBel TPN-AA07
2	Quanta OGF	Intel i5-10310U (1.7GHz)	16GB	LGD LP135WU1	LAIBAO ST135FN002 EKM	Samsung MZ9LQ256HAJD-000H1 (256GB)	Intel AX201D2W	TFC YHKP-1	Dynapack HSTNN-DB9W	N/A	hp 1WC36AA	Chicony TPN-CA20
3	Quanta OGF	Intel i7-10610U (1.8GHz)	16GB	IVO X135NV41	TPK T08ALC13501 HA	Kingston OM3PDP3256B-AH (256GB)	Intel AX201D2W	Foxlink FX10FF-774H-1	Dynapack HSTNN-DB9W	Fibocom L850-GL	hp Z6A00AA	Delta TPN-DA15
4	Quanta OGF	Intel i7-10610U (1.8GHz)	16GB	IVO X135NV41	TPK T08ALC13501 HB	Phison PSEDN128GA17 DC0 (128GB)	Intel AX201D2W	Foxlink FX10FF-774H-1	Dynapack HSTNN-DB9W	Fibocom L850-GL	hp N9K76AA	Lite-On TPN-LA19
5	Quanta OGF	Intel i7-10610U (1.8GHz)	16GB	IVO X135NV41	TPK T08ALC13501 HB	Western Digital SDAPTUW-128G-1006 (128GB)	Intel AX201D2W	Foxlink FX10FF-774H-1	Dynapack HSTNN-DB9W	Fibocom L850-GL	hp 7PJ38AA	Chicony TPN-CA21
6	Quanta OGF	Intel i7-10610U (1.8GHz)	8GB	IVO X135NV41	TPK T08ALC13501 HB	Western Digital SDAPTUW-256G-1006 (256GB)	Intel AX201D2W	Foxlink FX10FF-774H-1	Dynapack HSTNN-DB9W	Fibocom L850-GL	hp HSN-IX02	Delta TPN-DA20
7	Quanta OGF	Intel i7-10610U (1.8GHz)	16GB	IVO X135NV41	TPK T08ALC13501 HB	Samsung MZ9LQ128HBHQ-000H1 (128GB)	Intel AX201D2W	Foxlink FX10FF-774H-1	Dynapack HSTNN-DB9W	Fibocom L850-GL	hp HSN-IX02	Honor TPN-HA01
8	Quanta OGF	Intel i7-10610U (1.8GHz)	16GB	IVO X135NV41	TPK T08ALC13501 HB	Samsung MZ9LQ128HBHQ-000H1 (128GB)	Intel AX201D2W	Foxlink FX10FF-774H-1	Dynapack HSTNN-DB9W	Fibocom L850-GL	hp HSN-IX02	Delta TPN-DA15
9	Quanta OGF	Intel i7-10610U (1.8GHz)	16GB	IVO X135NV41	TPK T08ALC13501 HB	Samsung MZ9LQ128HBHQ-000H1 (128GB)	Intel AX201D2W	Foxlink FX10FF-774H-1	Dynapack HSTNN-DB9W	Fibocom L850-GL	hp HSN-IX02	Delta TPN-DA15
10	Quanta OGF	Intel i7-10610U (1.8GHz)	16GB	IVO X135NV41	TPK T08ALC13501 HB	Samsung MZ9LQ128HBHQ-000H1 (128GB)	Intel AX201D2W	Foxlink FX10FF-774H-1	Dynapack HSTNN-DB9W	Fibocom L850-GL	hp HSN-IX02	Delta TPN-DA15
11	Quanta OGF	Intel i7-10610U (1.8GHz)	16GB	IVO X135NV41	TPK T08ALC13501 HB	Samsung MZ9LQ128HBHQ-000H1 (128GB)	Intel AX201D2W	Foxlink FX10FF-774H-1	Dynapack HSTNN-DB9W	Fibocom L850-GL	hp HSN-IX02	Delta TPN-DA15
12	Quanta OGF	Intel i7-10610U (1.8GHz)	16GB	IVO X135NV41	TPK T08ALC13501 HB	Samsung MZ9LQ128HBHQ-000H1 (128GB)	Intel AX201D2W	Foxlink FX10FF-774H-1	Dynapack HSTNN-DB9W	Fibocom L850-GL	hp HSN-IX02	Delta TPN-DA20

1.4 The worst case of the EUT

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

Worst Case	
CE	Mode 11, 12 (1920 x 1280 Resolution)
RE	Mode 11, 12 (1920 x 1280 Resolution)

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1.5 Description of Support Units

Mode 11, 12:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
LCD Monitor	ASUS	MX27U	N/A
SD 2GB	Transcend	N/A	N/A
SIM Card	VIBO	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)	D-Link	DIR-868L	R3X81D7000137
Universal Radio Communication (Remote)	R&S	CMW 500	N/A
GPS simulator (Remote)	IFR	GPS-101	N/A

Support Equipment Used in Tested Cable

Mode 11, 12:

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
DP Cable (5)	N/A	1.8m	Shielding
Type C Cable (6)*3	N/A	0.6m	Shielding
USB HDD Cable (7)*2	N/A	0.6m	Shielding
Earphone Cable (8)*2	N/A	1.8m	Non-Shielding
USB Mouse Cable (9)	N/A	1.8m	Shielding
LAN Cable (10)	N/A	10.0m	Non-Shielding

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1.6 Operation Procedure

Mode 11, 12:

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. The EUT will reads/writes disk through "CTP" test software.
5. EUT execute the "CTP" test software to send "H" Pattern to display on the screen.
6. Software to turn-on the Camera.
7. The EUT transfers data to another Notebook PC via LAN Port.
8. Setup the condition for test mode and begin the test.

1.7 Modification List

No modification was made by Compliance Certification Services Inc..

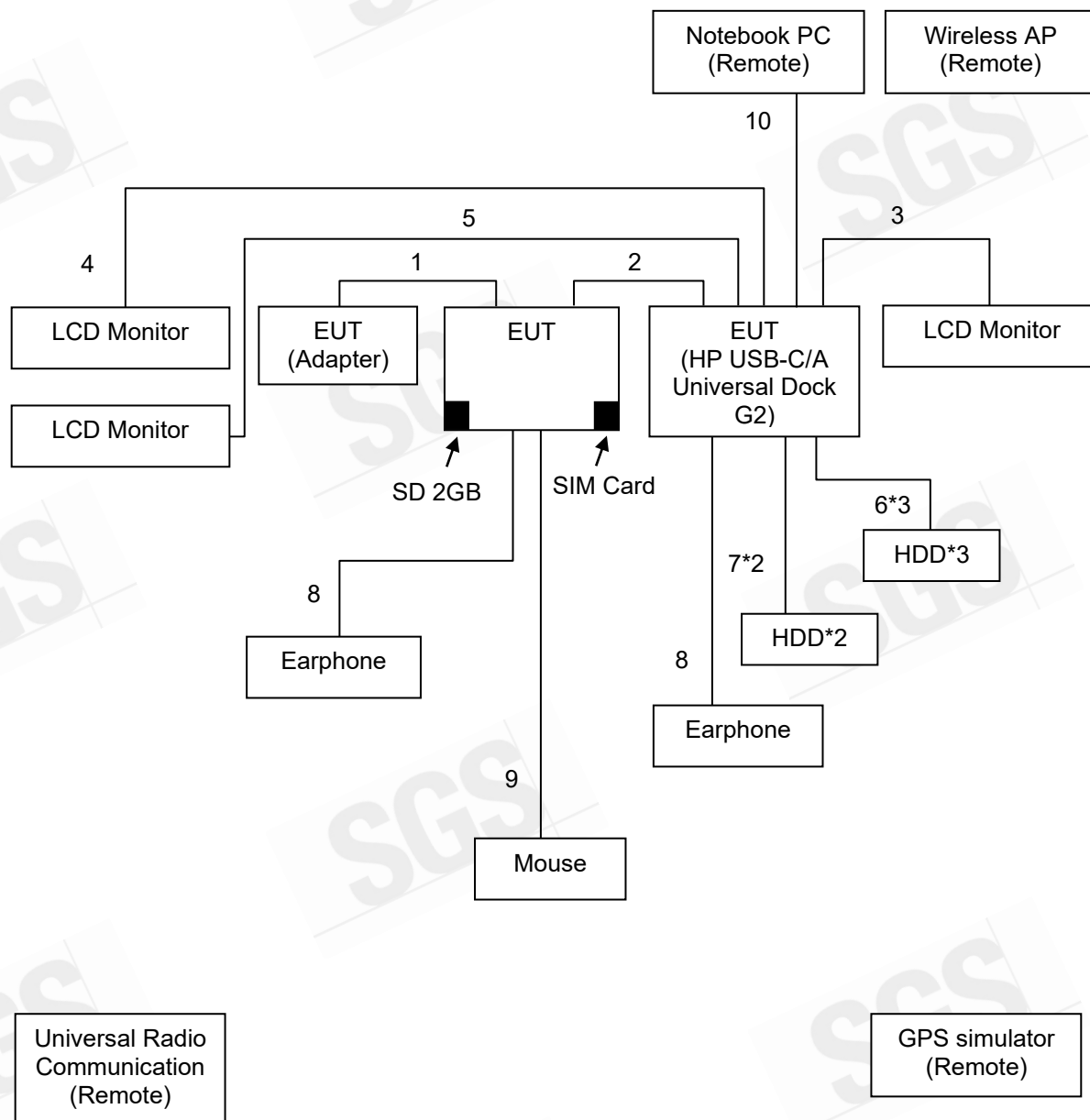
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1.8 Test Set-Up Configuration

Mode 11, 12:



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 ICES-003 Issue 6: 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	46.4	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	69.5	49.5	74	54

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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	EMCRG142	190809	09/20/2019	09/19/2020
EMI Test Receiver	R&S	ESCI	101073	07/18/2019	07/17/2020
LISN	Schwarzbeck	NSLK8128	5012	04/14/2020	04/13/2021
LISN	R&S	ENV216	101054	04/26/2020	04/25/2021
Software	CCS-3A1-CE				
Compliance Certification Services Inc. (Wugu Laboratory) No.139, Wugong Rd., Wugu Dist., New Taipei City, Taiwan (R.O.C.) Measurement Uncertainty of Conducted Emission Expanded uncertainty Ulab (K=2) of conducted emission is 3.14 dB Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of AC mains Conducted Emission is 3.44dB					

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2.4.2 Operating Environment

Temperature : 22 & 24 degree C

Humidity : 48 & 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

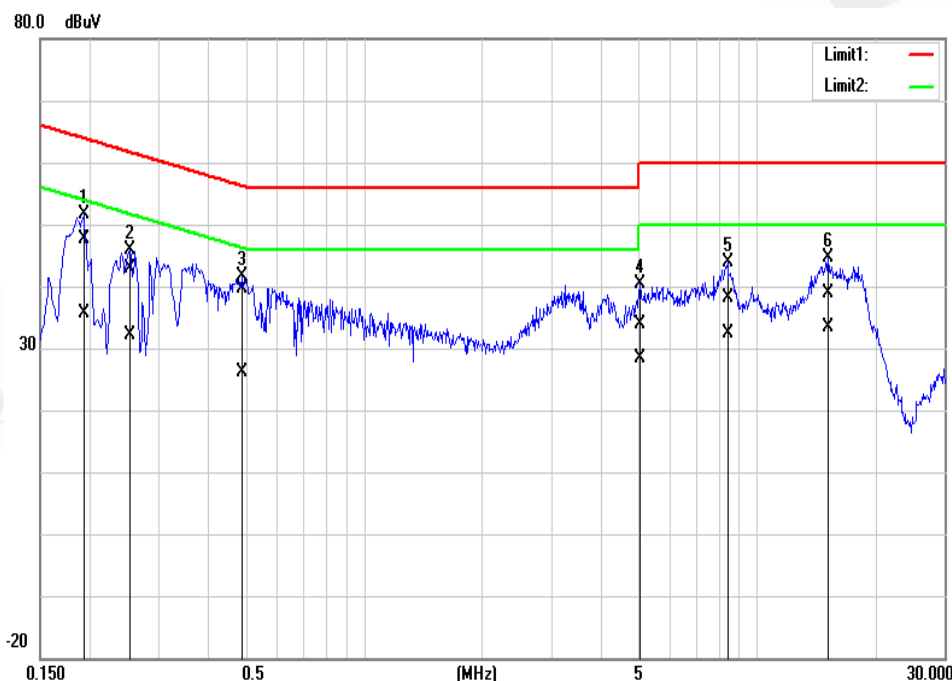
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2.4.4 Measurement Data:

Model no.	TPN-Q248	Line:	L1
Environmental Conditions	22°C, 48% RH	Tested Date	2020/05/02
Test Mode	Mode 11	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	37.98	25.90	9.76	47.74	35.66	63.86	53.86	-16.12	-18.20	Pass
2	0.2540	33.24	22.45	9.76	43.00	32.21	61.62	51.63	-18.62	-19.42	Pass
3	0.4900	29.87	16.33	9.76	39.63	26.09	56.17	46.17	-16.54	-20.08	Pass
4	5.0540	23.99	18.55	9.86	33.85	28.41	60.00	50.00	-26.15	-21.59	Pass
5	8.4140	28.22	22.47	9.92	38.14	32.39	60.00	50.00	-21.86	-17.61	Pass
6	15.1860	28.97	23.28	10.01	38.98	33.29	60.00	50.00	-21.02	-16.71	Pass

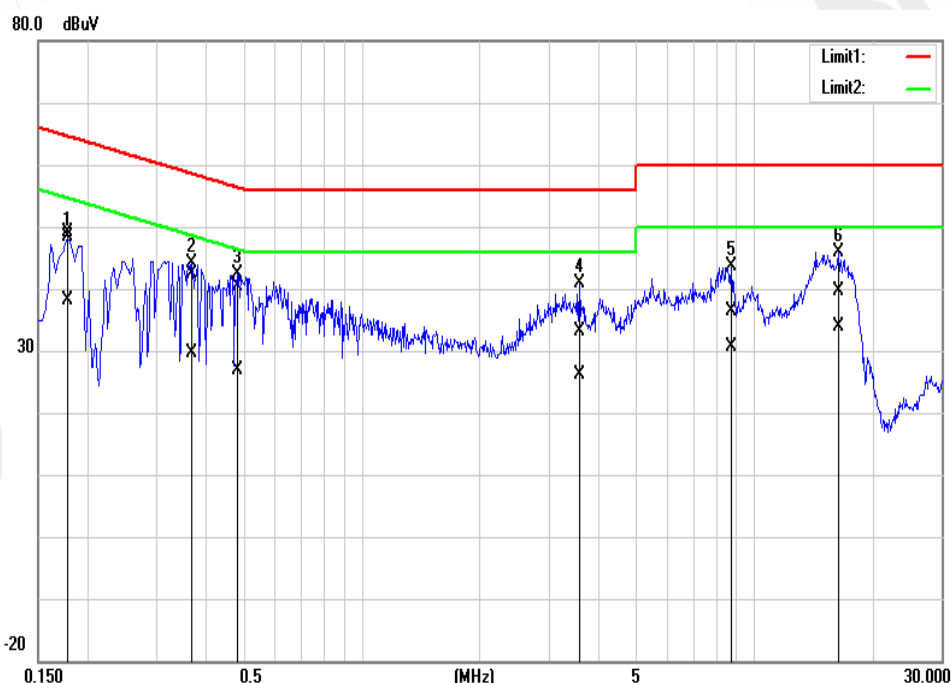
Note: L1 = Line One (Live Line)

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Model no.	TPN-Q248	Line:	L2
Environmental Conditions	22°C, 48% RH	Tested Date	2020/05/02
Test Mode	Mode 11	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*	0.1780	39.26	28.26	9.80	49.06	38.06	64.57	54.58	-15.51	-16.52	Pass
2	0.3700	32.57	19.93	9.80	42.37	29.73	58.50	48.50	-16.13	-18.77	Pass
3	0.4860	30.47	17.13	9.80	40.27	26.93	56.24	46.24	-15.97	-19.31	Pass
4	3.5980	23.20	16.27	9.87	33.07	26.14	56.00	46.00	-22.93	-19.86	Pass
5	8.7700	26.48	20.75	9.98	36.46	30.73	60.00	50.00	-23.54	-19.27	Pass
6	16.4020	29.44	23.87	10.09	39.53	33.96	60.00	50.00	-20.47	-16.04	Pass

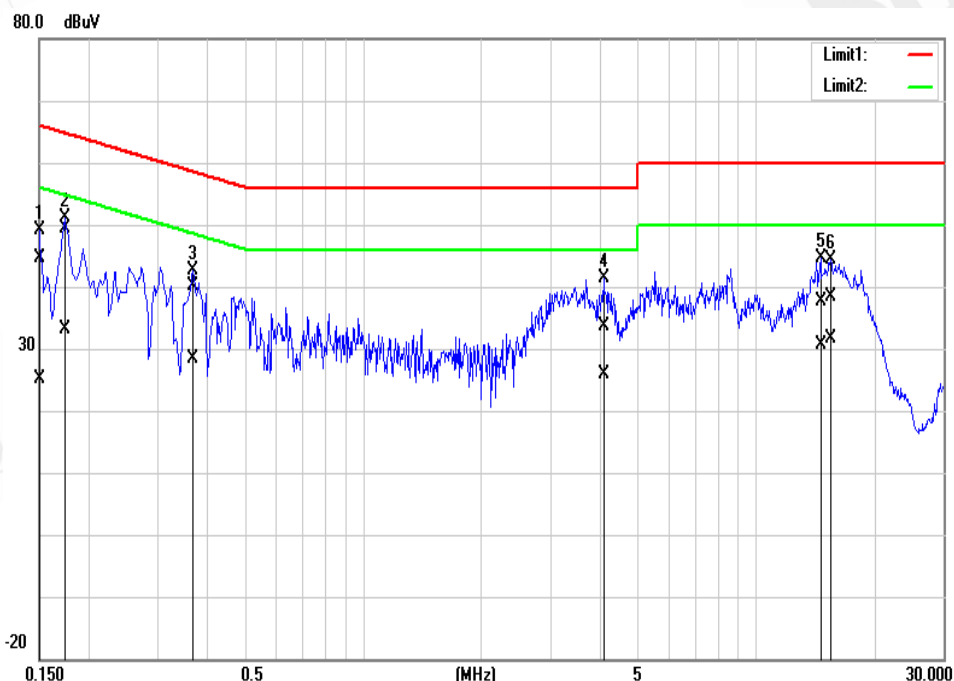
Note: L2 = Line Two (Neutral Line).

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Model no.	TPN-Q248	Line:	L1
Environmental Conditions	24°C, 50% RH	Tested Date	2020/05/05
Test Mode	Mode 12	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



NO.	Frequency	Quasi Peak reading	Average reading	Correction factor	Quasi Peak result	Average result	Quasi Peak limit	Average limit	Quasi Peak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1	0.1500	35.03	15.54	9.68	44.71	25.22	65.99	56.00	-21.28	-30.78	Pass
2*	0.1740	39.75	23.40	9.68	49.43	33.08	64.76	54.77	-15.33	-21.69	Pass
3	0.3700	30.55	18.66	9.69	40.24	28.35	58.50	48.50	-18.26	-20.15	Pass
4	4.0980	23.88	16.19	9.77	33.65	25.96	56.00	46.00	-22.35	-20.04	Pass
5	14.5980	27.76	20.72	9.91	37.67	30.63	60.00	50.00	-22.33	-19.37	Pass
6	15.4980	28.36	21.79	9.92	38.28	31.71	60.00	50.00	-21.72	-18.29	Pass

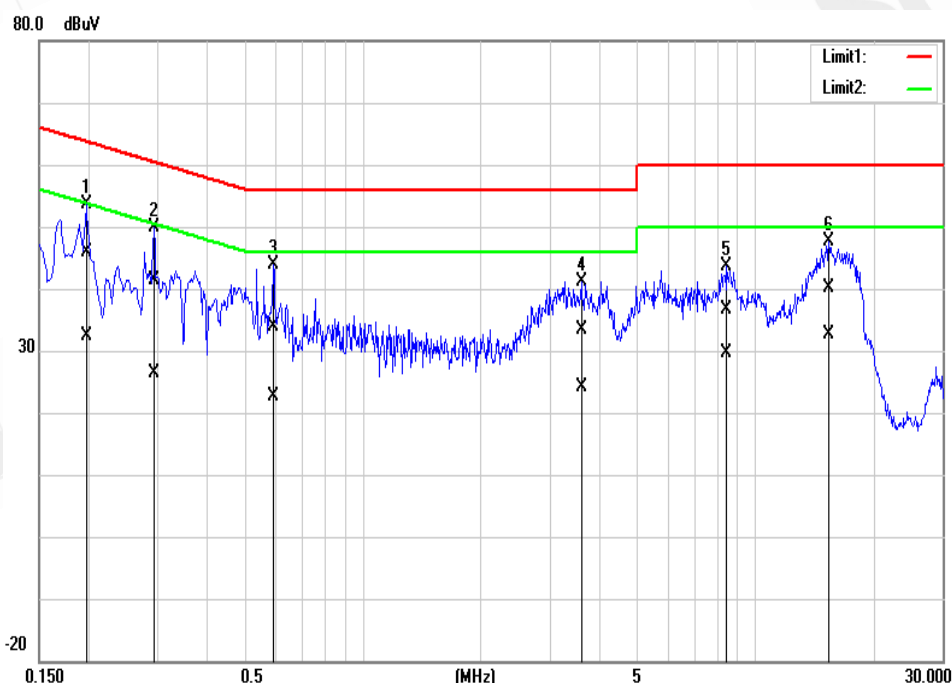
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Model no.	TPN-Q248	Line:	L2
Environmental Conditions	24°C, 50% RH	Tested Date	2020/05/05
Test Mode	Mode 12	Tested By	Thomas Liu
6dB Bandwidth	9 kHz	Identifier number	TCOP CE site 17



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	0.1980	36.07	22.57	9.74	45.81	32.31	63.69	53.69	-17.88	-21.38	Pass
2	0.2940	31.58	16.74	9.74	41.32	26.48	60.41	50.41	-19.09	-23.93	Pass
3	0.5940	24.23	12.91	9.75	33.98	22.66	56.00	46.00	-22.02	-23.34	Pass
4	3.6180	23.67	14.21	9.82	33.49	24.03	56.00	46.00	-22.51	-21.97	Pass
5	8.4700	26.61	19.74	9.91	36.52	29.65	60.00	50.00	-23.48	-20.35	Pass
6*	15.4420	30.01	22.75	10.00	40.01	32.75	60.00	50.00	-19.99	-17.25	Pass

Note: L2 = Line Two (Neutral Line).

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

Radiated_Below_1GHz 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Bilog Antenna	TESEQ	CBL 6112D	31674	02/20/2020	02/19/2021
Bilog Antenna	TESEQ	CBL 6112D	31675	03/09/2020	03/08/2021
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	330029	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	104PEA	33948/4PEA	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	104PEA	33949/4PEA	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	24813	04/29/2020	04/28/2021
EMI Test Receiver	R&S	ESCI	100961	06/20/2019	06/19/2020
EMI Test Receiver	R&S	ESCI	100962	06/24/2019	06/23/2020
Pre-Amplifier	HP	8447D	2944A07754	04/29/2020	04/28/2021
Pre-Amplifier	HP	8447D	2944A08150	04/29/2020	04/28/2021
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, 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

Radiated_Above_1GHz 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	329383	04/29/2020	04/28/2021
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	33945	04/29/2020	04/28/2021
Horn Antenna	ETS LINDGREN	3116	00026370	12/18/2019	12/17/2020
Horn Antenna	EMCO	3117	00055167	12/12/2019	12/11/2020
Pre-Amplifier	EMCI	EMC051845	980040	04/29/2020	04/28/2021
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	06/18/2019	06/17/2020
Spectrum Analyzer	Agilent	E4446A	MY48250297	08/27/2019	08/26/2020
AC POWER SOURE	APE	AFC-130	991259	N.C.R	N.C.R
Antenna Tower	Sunol Sciences	TLT2	031010-5	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	031010-1	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	EZ-EMC (CCS-3A1RE)				
Compliance Certification Services Inc. (Wugu Laboratory)					
No.139, Wugong Rd., Wugu Dist., New Taipei City, 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 5.27 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 Iradiated emission measurement is 5.18 dB.(1-6GHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is 5.48 dB.(6-18GHz)					
Theory values uncertainty U _{cispr} 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is ---- dB.(18-26GHz)					
Theory values uncertainty U _{cispr} 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 : 21 degree C Humidity : 56 %RH

Atmospheric Pressure : 996 mBar

2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss - Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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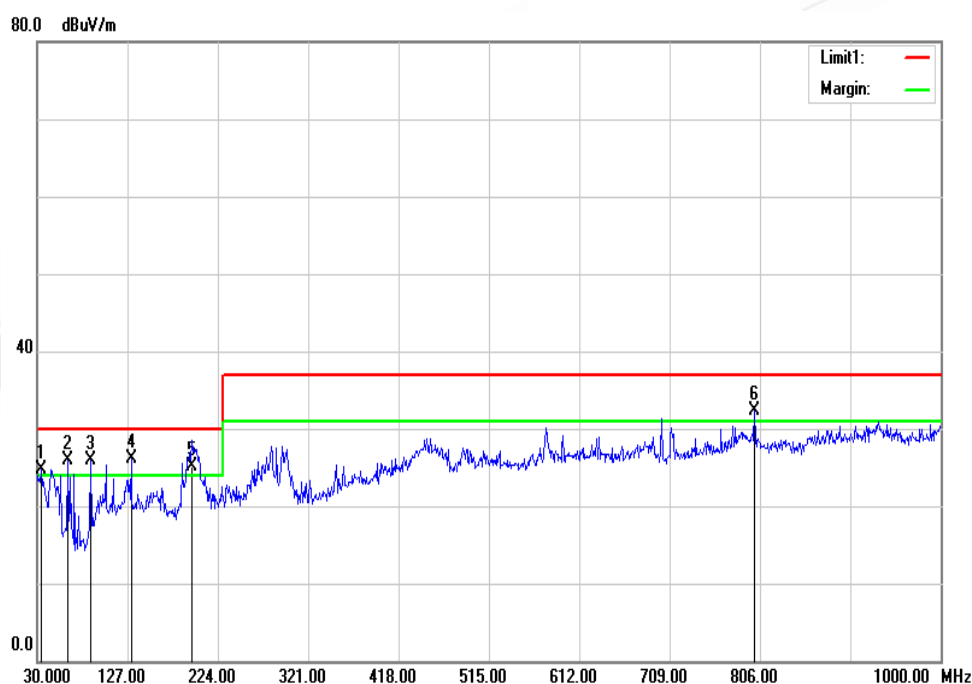
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2.5.4 Measurement Data

Below 1GHz

Model no.	TPN-Q248	Test Mode	Mode 11
Environmental Conditions	21°C, 56% RH	Tested Date	2020/05/06
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	34.8500	29.45	-4.72	24.73	30.00	-5.27	241	0	QP
2	62.9800	39.98	-14.01	25.97	30.00	-4.03	299	176	QP
3	87.2300	37.54	-11.72	25.82	30.00	-4.18	100	266	QP
4	130.8800	34.18	-8.09	26.09	30.00	-3.91	100	140	QP
5	196.6100	34.46	-9.33	25.13	30.00	-4.87	100	342	QP
6	800.1800	28.22	4.04	32.26	37.00	-4.74	199	359	QP

REMARKS:

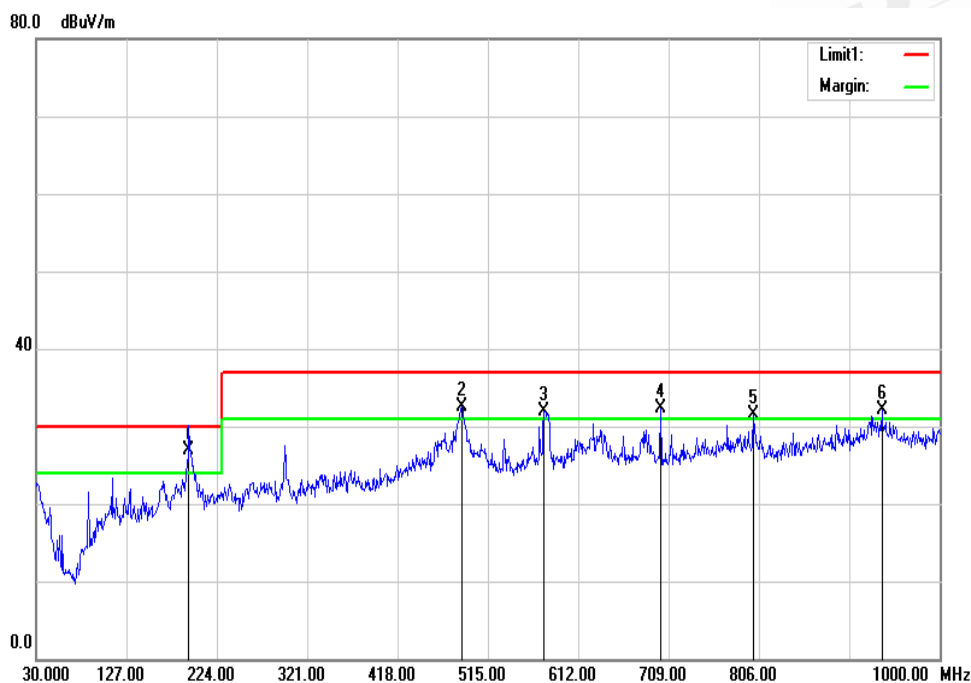
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Model no.	TPN-Q248	Test Mode	Mode 11
Environmental Conditions	21°C, 56% RH	Tested Date	2020/05/06
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	193.9300	37.68	-10.73	26.95	30.00	-3.05	400	187	QP
2	486.8700	34.66	-2.17	32.49	37.00	-4.51	199	360	QP
3	575.1400	32.64	-0.74	31.90	37.00	-5.10	176	360	QP
4	700.2700	32.09	0.22	32.31	37.00	-4.69	100	163	QP
5	800.1800	29.85	1.66	31.51	37.00	-5.49	100	65	QP
6	937.9200	28.23	3.83	32.06	37.00	-4.94	300	264	QP

REMARKS:

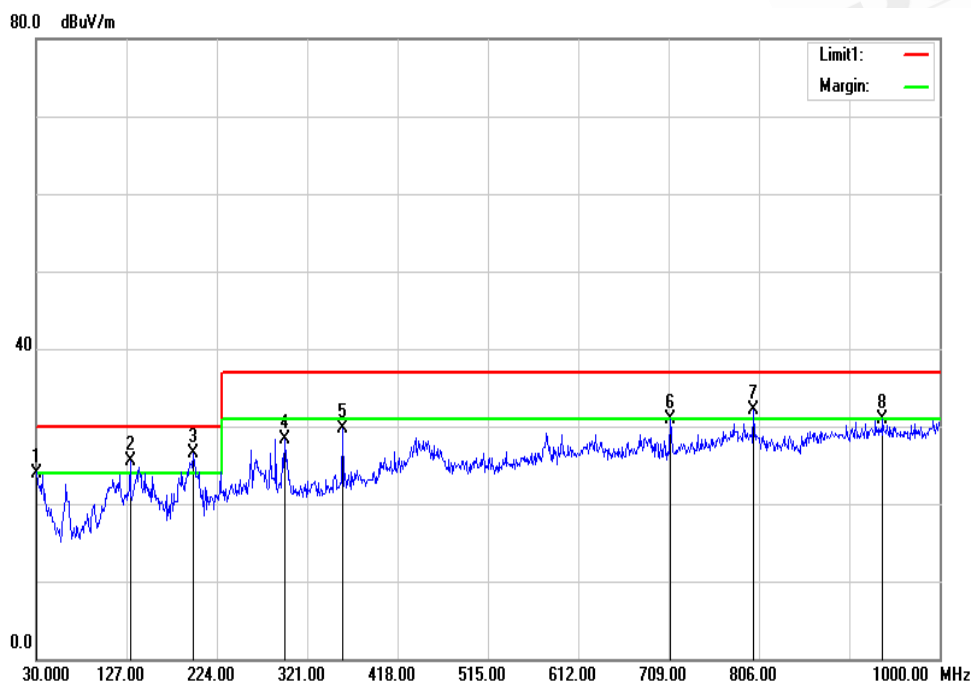
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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Model no.	TPN-Q248	Test Mode	Mode 12
Environmental Conditions	21°C, 56% RH	Tested Date	2020/05/06
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	30.9700	26.83	-2.83	24.00	30.00	-6.00	100	302	QP
2	130.8800	33.53	-8.09	25.44	30.00	-4.56	100	164	QP
3	198.7800	35.68	-9.18	26.50	30.00	-3.50	100	333	QP
4	296.7500	32.71	-4.43	28.28	37.00	-8.72	100	1	QP
5	358.8300	32.37	-2.71	29.66	37.00	-7.34	103	0	QP
6	710.9400	28.47	2.37	30.84	37.00	-6.16	199	100	QP
7	800.1800	28.04	4.04	32.08	37.00	-4.92	300	178	QP
8	938.8900	25.45	5.45	30.90	37.00	-6.10	300	224	QP

REMARKS:

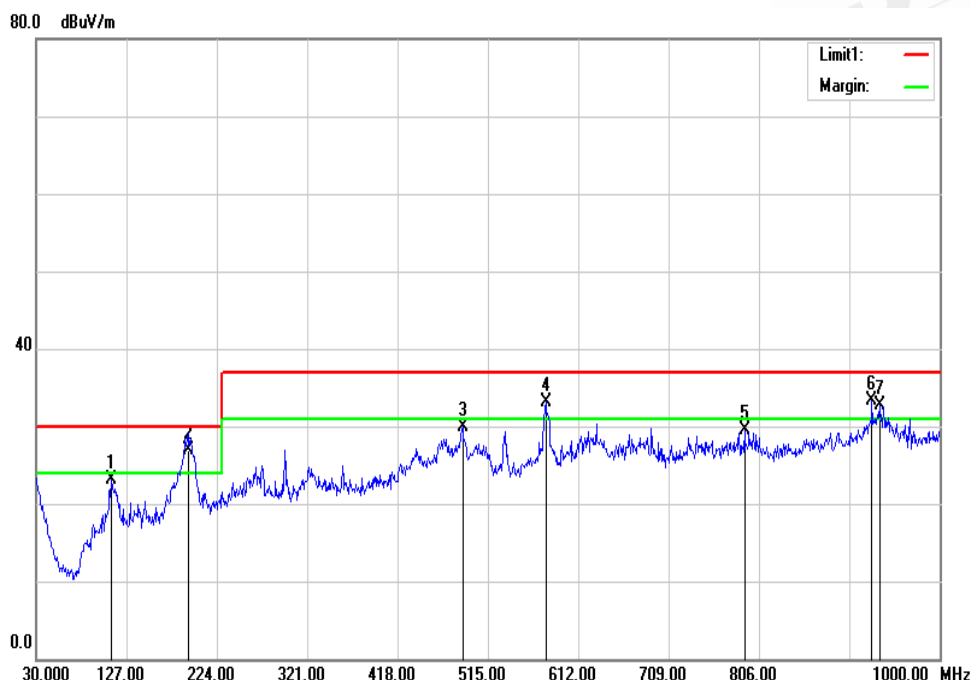
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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Model no.	TPN-Q248	Test Mode	Mode 12
Environmental Conditions	21°C, 56% RH	Tested Date	2020/05/06
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested By	Rex Kuo
6dB Bandwidth	120 kHz	Identifier number	TCOP RE site 17



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	110.5100	32.01	-8.94	23.07	30.00	-6.93	399	151	QP
2	192.9600	37.70	-10.77	26.93	30.00	-3.07	399	16	QP
3	487.8400	32.02	-2.16	29.86	37.00	-7.14	100	359	QP
4	577.0800	33.82	-0.76	33.06	37.00	-3.94	160	0	QP
5	790.4800	27.90	1.51	29.41	37.00	-7.59	399	110	QP
6	927.2500	29.78	3.56	33.34	37.00	-3.66	100	165	QP
7	935.9800	28.87	3.78	32.65	37.00	-4.35	100	165	QP

REMARKS:

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

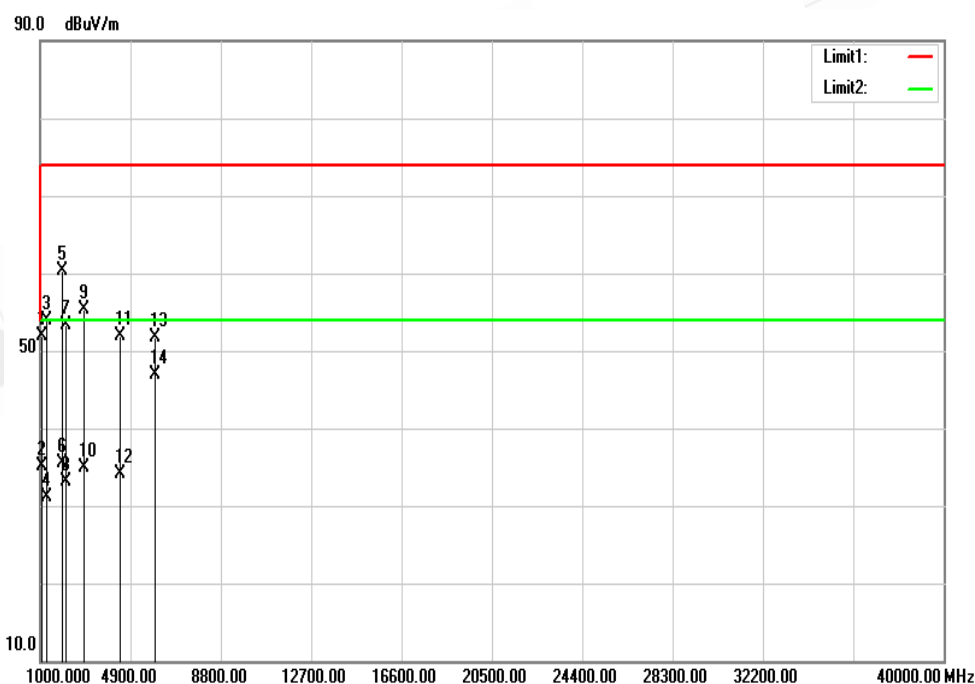
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Above 1GHz

Model no.	TPN-Q248	Test Mode	Mode 11
Environmental Conditions	21°C, 56% RH	Tested Date	2020/05/06
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	2.1GHz	Upper frequency	10.5GHz
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	1068.000	71.61	-19.72	51.89	74.00	-22.11	200	44	peak
2	1068.000	54.83	-19.72	35.11	54.00	-18.89	200	44	AVG
3	1246.500	72.76	-18.84	53.92	74.00	-20.08	280	360	peak
4	1246.500	49.86	-18.84	31.02	54.00	-22.98	280	360	AVG
5	1960.500	75.73	-15.39	60.34	74.00	-13.66	100	133	peak
6	1960.500	50.86	-15.39	35.47	54.00	-18.53	100	133	AVG
7	2130.500	68.03	-14.65	53.38	74.00	-20.62	183	0	peak
8	2130.500	47.84	-14.65	33.19	54.00	-20.81	183	0	AVG
9	2844.500	68.41	-13.01	55.40	74.00	-18.60	100	31	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
10	2844.500	47.93	-13.01	34.92	54.00	-19.08	100	31	AVG
11	4442.500	61.05	-9.17	51.88	74.00	-22.12	200	13	peak
12	4442.500	43.28	-9.17	34.11	54.00	-19.89	200	13	AVG
13	5938.500	57.35	-5.55	51.80	74.00	-22.20	100	276	peak
14	5938.500	52.44	-5.55	46.89	54.00	-7.11	100	276	AVG

REMARKS:

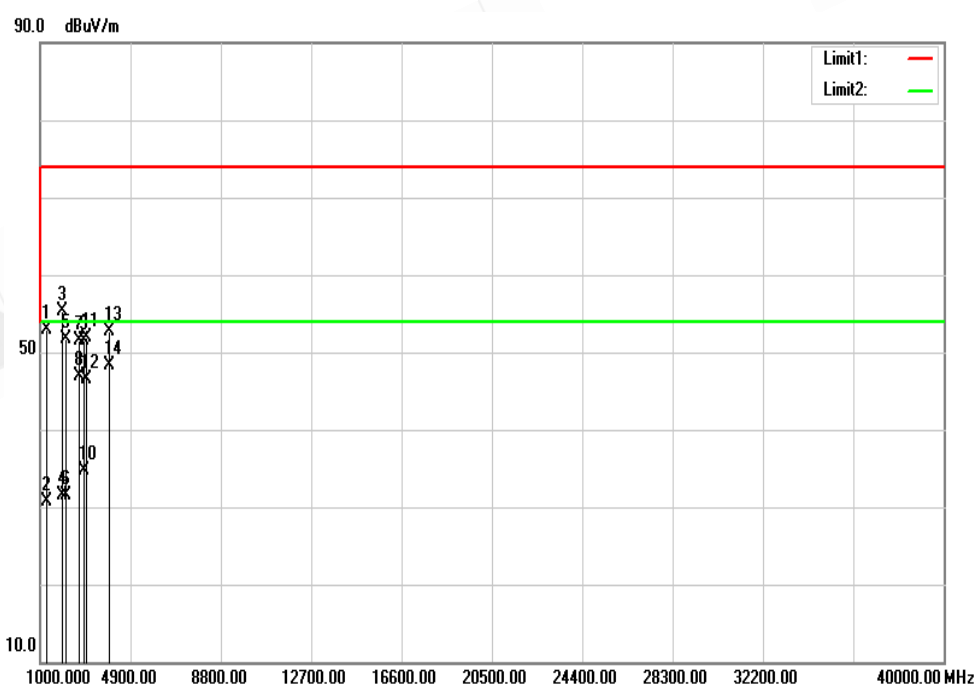
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	TPN-Q248	Test Mode	Mode 11
Environmental Conditions	21°C, 56% RH	Tested Date	2020/05/06
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	2.1GHz	Upper frequency	10.5GHz
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	1246.500	71.68	-18.84	52.84	74.00	-21.16	300	139	peak
2	1246.500	49.58	-18.84	30.74	54.00	-23.26	300	139	AVG
3	1960.500	70.72	-15.39	55.33	74.00	-18.67	200	0	peak
4	1960.500	46.98	-15.39	31.59	54.00	-22.41	200	0	AVG
5	2130.500	66.44	-14.65	51.79	74.00	-22.21	300	36	peak
6	2130.500	46.16	-14.65	31.51	54.00	-22.49	300	36	AVG
7	2700.000	65.05	-13.53	51.52	74.00	-22.48	200	198	peak
8	2700.000	60.49	-13.53	46.96	54.00	-7.04	200	198	AVG
9	2844.500	64.47	-13.01	51.46	74.00	-22.54	200	127	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
10	2844.500	47.65	-13.01	34.64	54.00	-19.36	200	127	AVG
11	2972.000	64.49	-12.64	51.85	74.00	-22.15	114	360	peak
12	2972.000	59.16	-12.64	46.52	54.00	-7.48	114	360	AVG
13	4000.500	63.94	-11.24	52.70	74.00	-21.30	100	178	peak
14	4000.500	59.46	-11.24	48.22	54.00	-5.78	100	178	AVG

REMARKS:

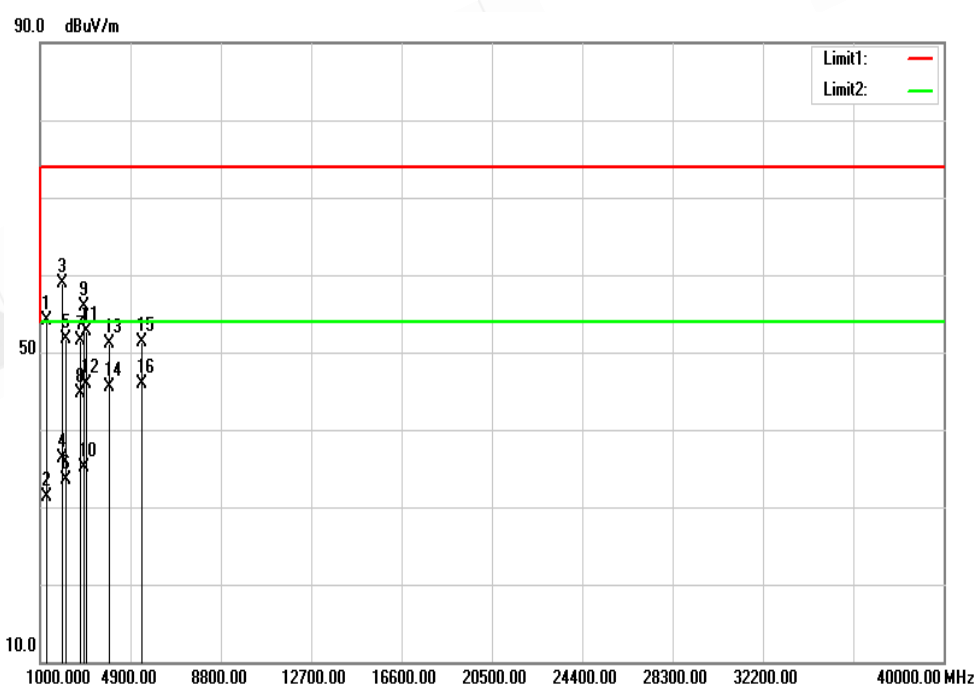
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Environmental Conditions	21°C, 56% RH	Tested Date	2020/05/06
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	2.1GHz	Upper frequency	10.5GHz
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	1246.500	72.86	-18.84	54.02	74.00	-19.98	200	123	peak
2	1246.500	50.05	-18.84	31.21	54.00	-22.79	200	123	AVG
3	1952.000	74.30	-15.46	58.84	74.00	-15.16	100	173	peak
4	1952.000	51.84	-15.46	36.38	54.00	-17.62	100	173	AVG
5	2130.500	66.37	-14.65	51.72	74.00	-22.28	241	360	peak
6	2130.500	48.22	-14.65	33.57	54.00	-20.43	241	360	AVG
7	2700.000	65.07	-13.53	51.54	74.00	-22.46	134	0	peak
8	2700.000	58.22	-13.53	44.69	54.00	-9.31	134	0	AVG
9	2844.500	68.93	-13.01	55.92	74.00	-18.08	157	0	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
10	2844.500	48.04	-13.01	35.03	54.00	-18.97	157	0	AVG
11	2972.000	65.27	-12.64	52.63	74.00	-21.37	100	31	peak
12	2972.000	58.64	-12.64	46.00	54.00	-8.00	100	31	AVG
13	4000.500	62.36	-11.24	51.12	74.00	-22.88	100	252	peak
14	4000.500	56.69	-11.24	45.45	54.00	-8.55	100	252	AVG
15	5403.000	58.75	-7.51	51.24	74.00	-22.76	100	189	peak
16	5403.000	53.32	-7.51	45.81	54.00	-8.19	100	189	AVG

REMARKS:

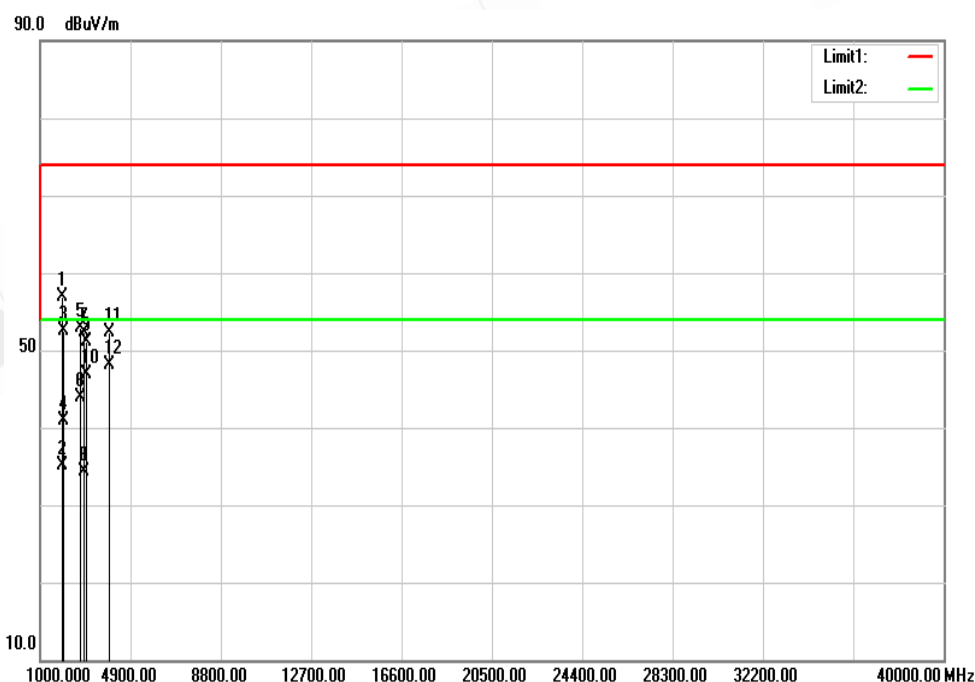
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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Model no.	TPN-Q248	Test Mode	Mode 12
Environmental Conditions	21°C, 56% RH	Tested Date	2020/05/06
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	2.1GHz	Upper frequency	10.5GHz
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	1952.000	72.30	-15.46	56.84	74.00	-17.16	300	107	peak
2	1952.000	50.47	-15.46	35.01	54.00	-18.99	300	107	AVG
3	2003.000	67.58	-15.01	52.57	74.00	-21.43	193	360	peak
4	2003.000	55.82	-15.01	40.81	54.00	-13.19	193	360	AVG
5	2700.000	66.50	-13.53	52.97	74.00	-21.03	100	296	peak
6	2700.000	57.45	-13.53	43.92	54.00	-10.08	100	296	AVG
7	2844.500	65.37	-13.01	52.36	74.00	-21.64	300	170	peak
8	2844.500	47.40	-13.01	34.39	54.00	-19.61	300	170	AVG

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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
9	2972.000	63.68	-12.64	51.04	74.00	-22.96	200	212	peak
10	2972.000	59.52	-12.64	46.88	54.00	-7.12	200	212	AVG
11	4000.500	63.52	-11.24	52.28	74.00	-21.72	100	193	peak
12	4000.500	59.39	-11.24	48.15	54.00	-5.85	100	193	AVG

REMARKS:

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

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

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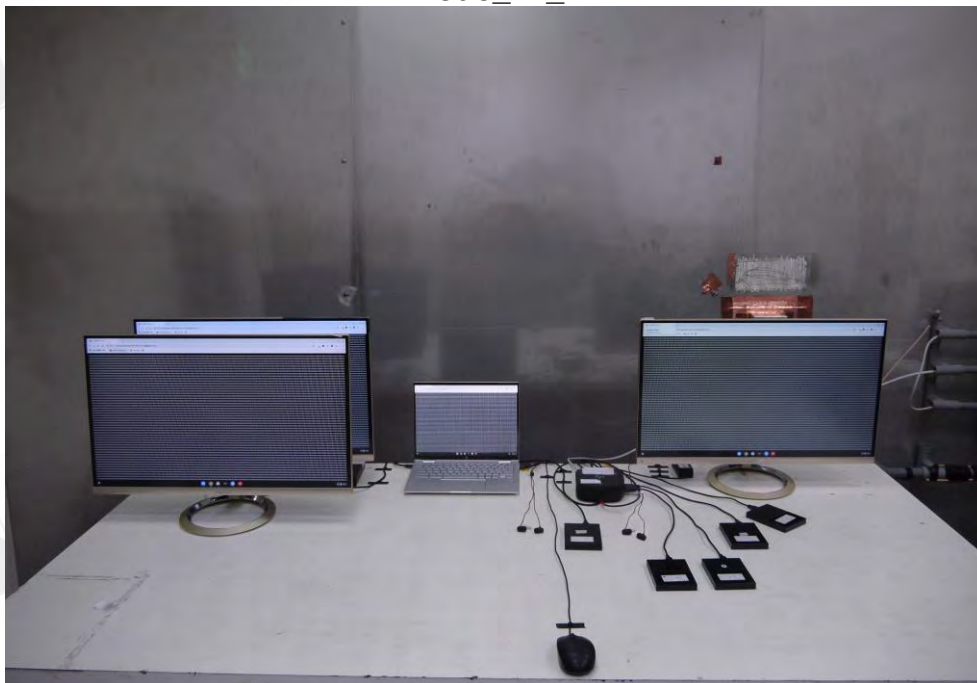
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3. Photographs of Test

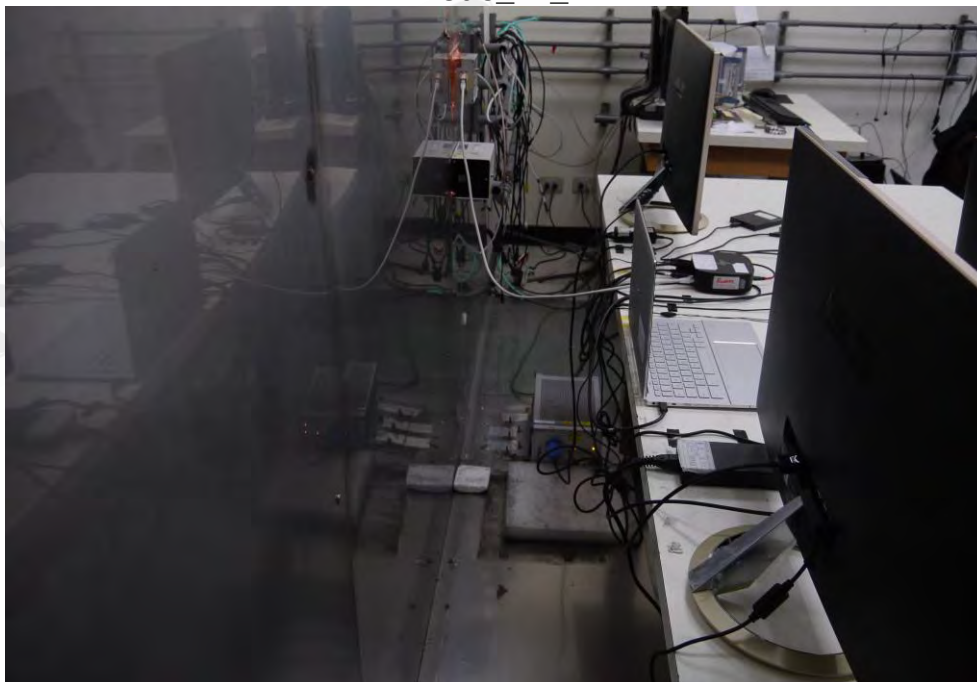
CE Testing Set-up

Model No.: TPN-Q248

Mode 11 +



Mode 11 -



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Model No.: TPN-Q248

Mode_12_ +



Mode_12_ -



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RE Testing Set-up Below 1GHz

Model No.: TPN-Q248

Mode_11_ +



Mode_11_ -



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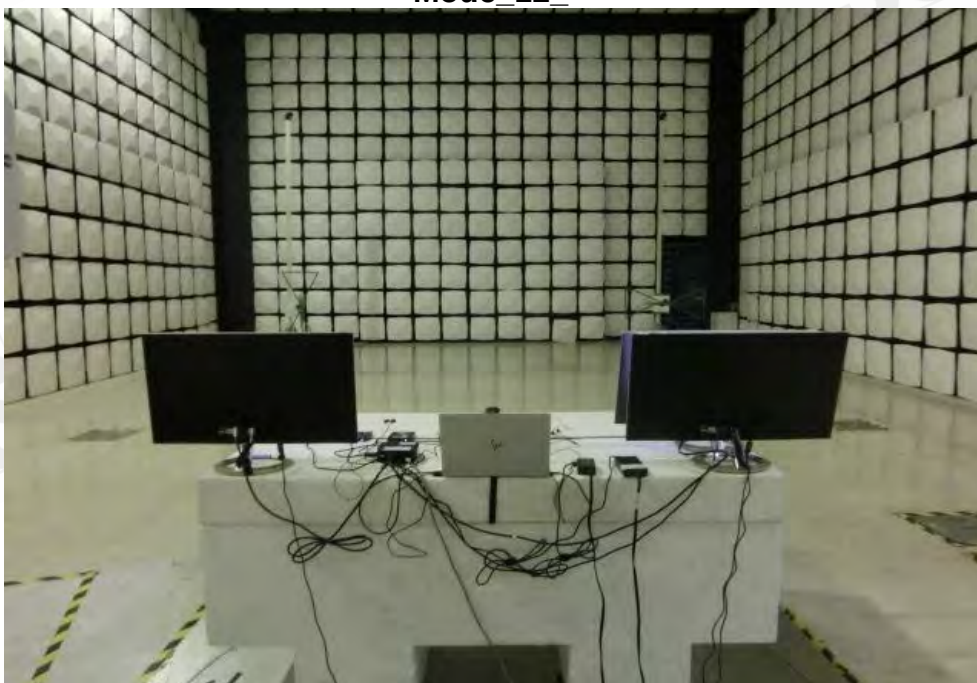
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Model No.: TPN-Q248

Mode_12_+



Mode_12_-



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Above 1GHz

Model No.: TPN-Q248

Mode 11_+



Mode 11_-



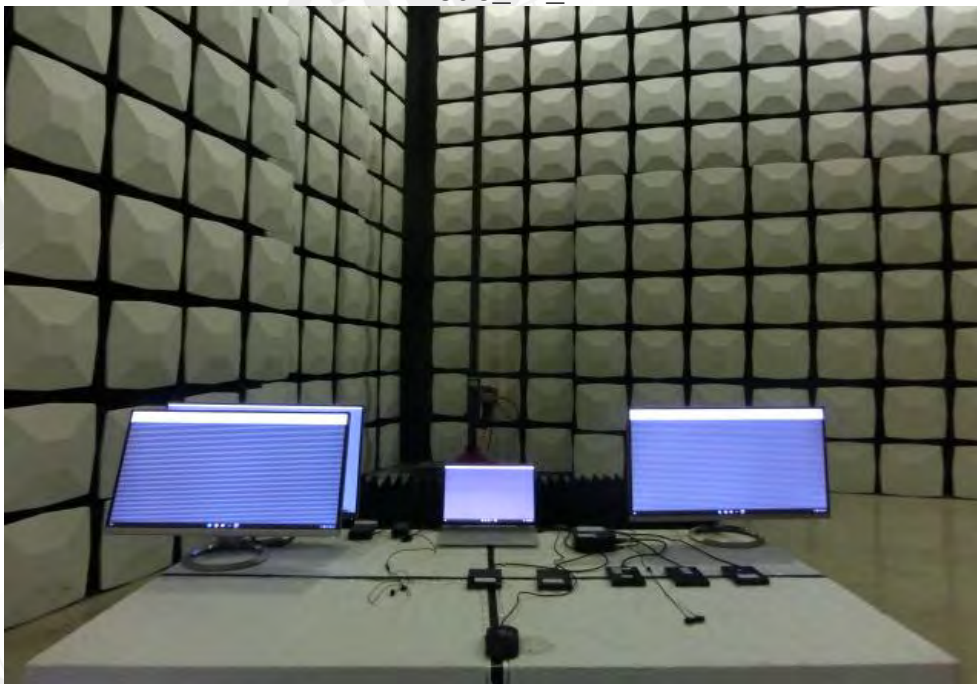
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Model No.: TPN-Q248

Mode 12_ +



Mode 12_ -



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4. Photographs of Product

Exterior

Model No.: TPN-Q248



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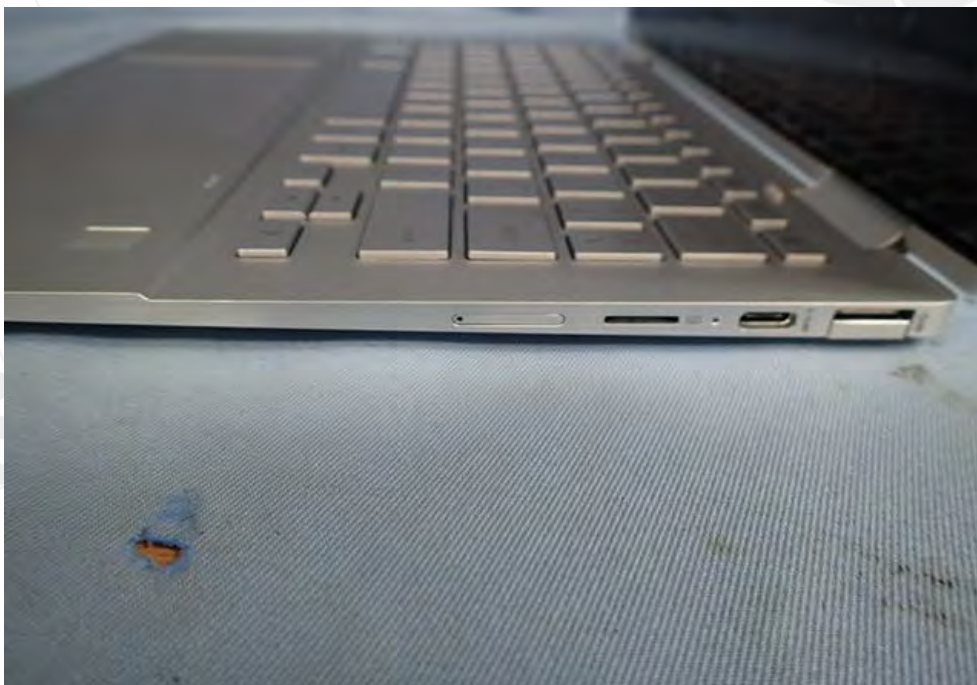
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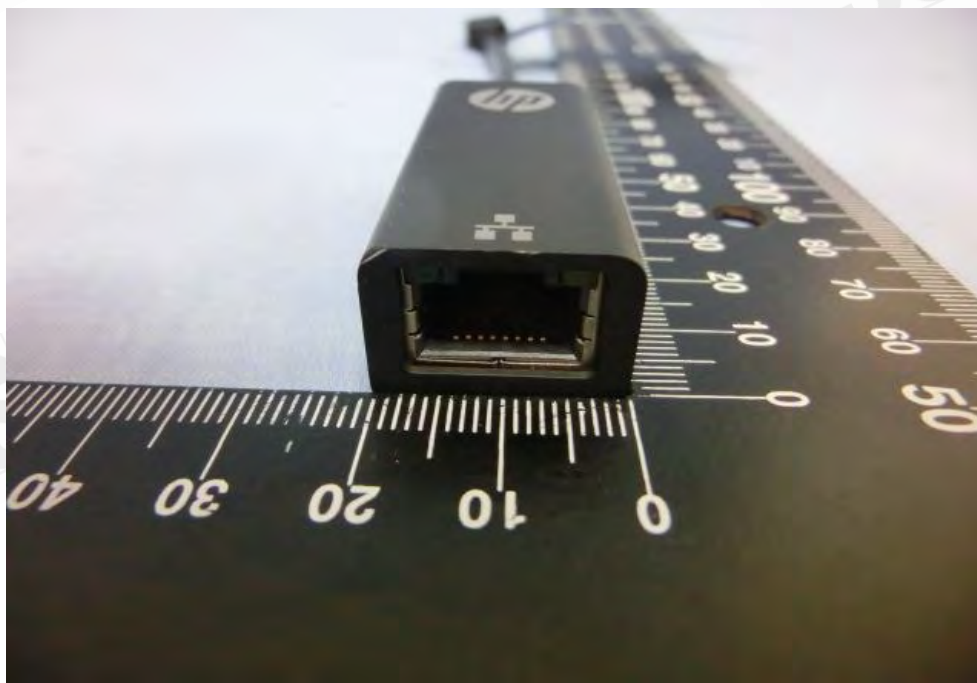


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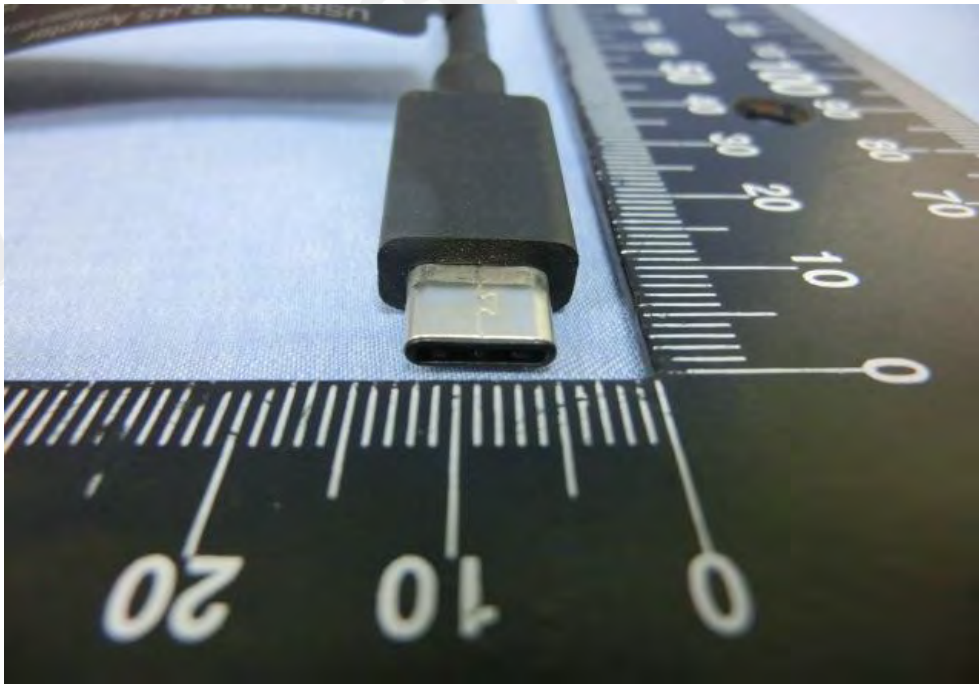
HP USB-C to RJ45 Adapter Model No.: V7W66AA#xxx



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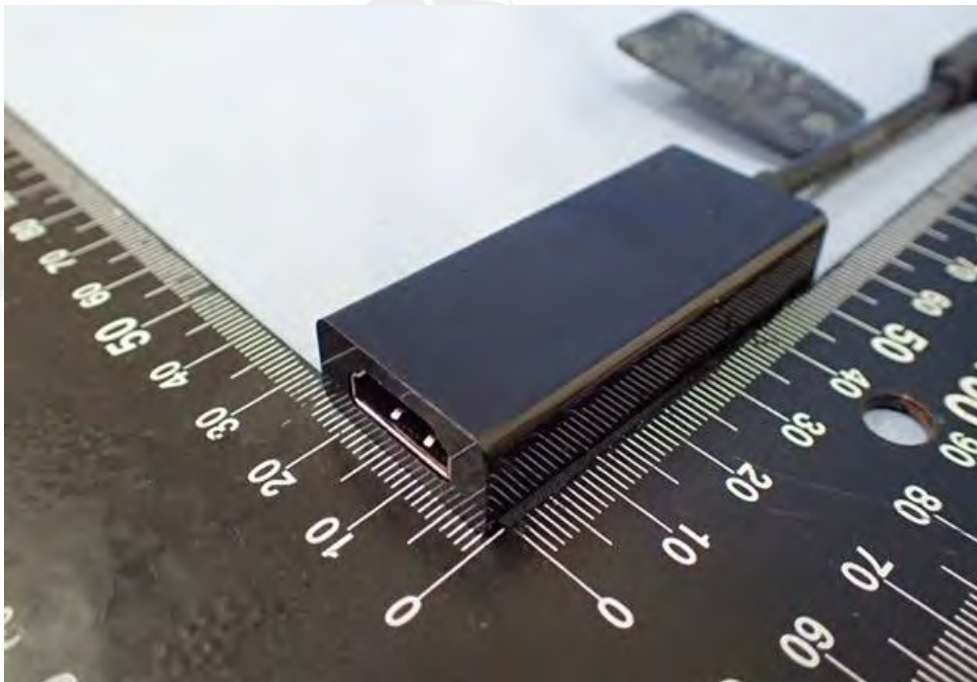


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HP USB-C to HDMI 2.0 Adapter Model No.: 1WC36AA



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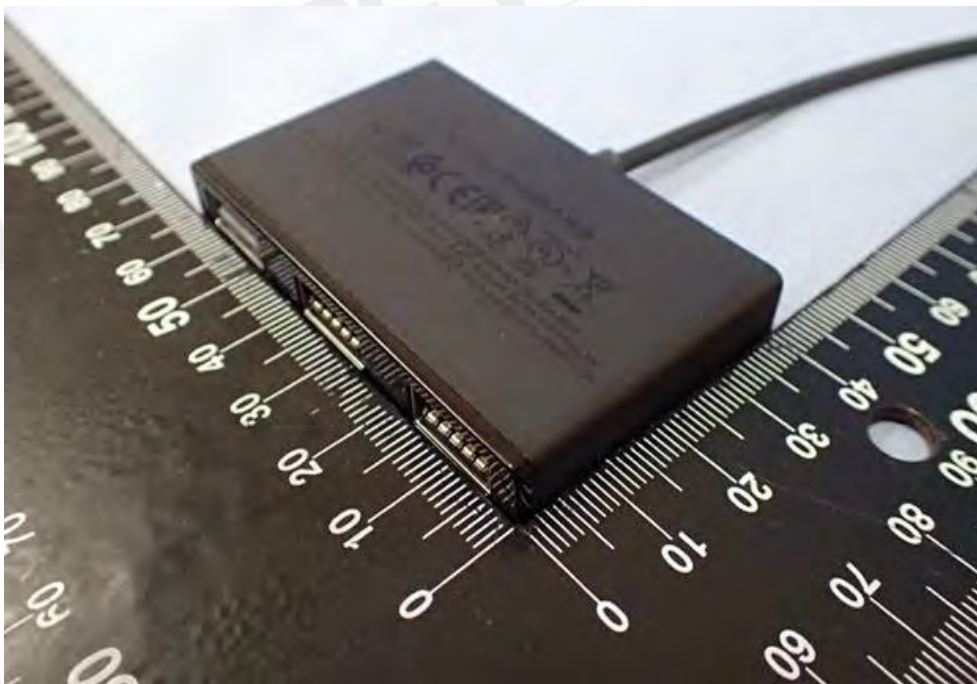


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HP USB-C to USB HUB (Jake) Model No.: Z6A00AA



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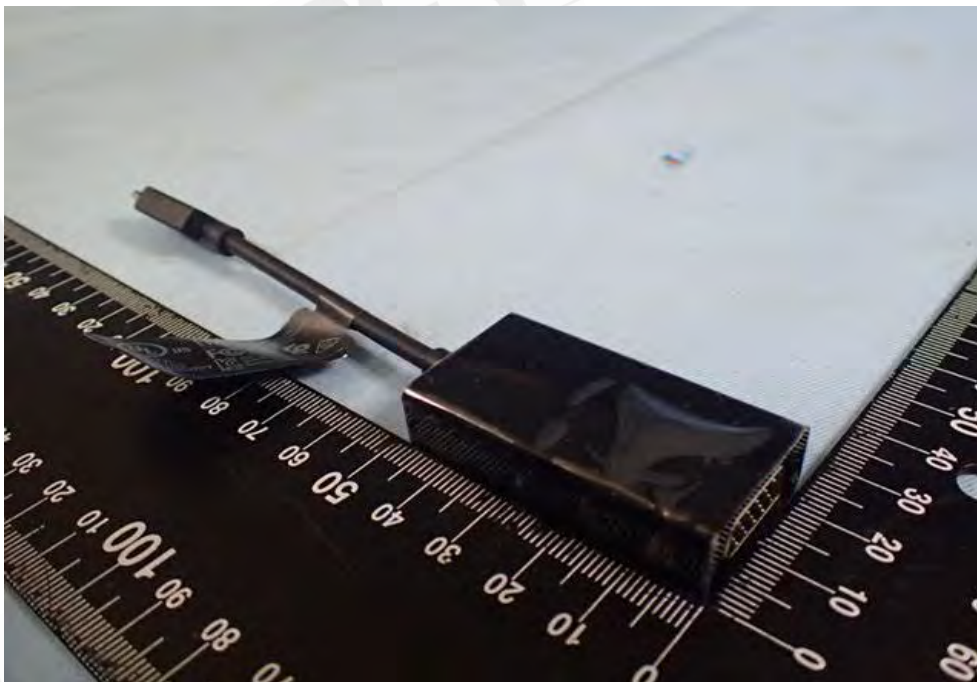


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HP USB-C to VGA Adapter Model No.: N9K76AA



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HP USB-C Travel Dock G2 (Fox2) Model No.: 7PJ38AA



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HP USB-C/A Universal Dock G2 (Adicora-D) Model No.: HSN-IX02



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



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Adapter Model No.: TPN-AA07



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Adapter Model No.: TPN-CA20



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Adapter Model No.: TPN-CA21



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Adapter Model No.: TPN-DA15



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Adapter Model No.: TPN-DA20



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Adapter Model No.: TPN-LA19



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Adapter Model No.: TPN-HA01



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**** End of Report ****

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