

TEST REPORT

EUT Description	Convertible PC
Brand Name	HP
Model Name	TPN-W166
FCC ID	PD9BE201NG
ISED ID	1000M-BE201NG
Date of Test Start/End	2024-11-26 / 2024-11-26
Features	2x2 Wi-Fi- Bluetooth® (see section 5)

Applicant	Intel Corporation SAS
Address	425 Rue de Goa – Le Cargo B6 – 06600 Antibes, FRANCE
Contact Person	Benjamin Lavenant
Telephone/Fax/ Email	Benjamin.lavenant@intel.com

Reference Standards	FCC 47 CFR Part §2.1093 RSS 102, issue 6 (see section 1)
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Test Report identification	240816-04.TR05
Revision Control	Rev. 00 This test report revision replaces any previous test report revision (see section 8)

The test results relate only to the samples tested.
Reference to accreditation shall be used only by full reproduction of test report

Reviewed by _____

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1. Standards, reference documents and applicable test methods

FCC	1. FCC Title 47 CFR Part §2.1093 – Radiofrequency radiation exposure evaluation: portable devices. 2022-10-01 Edition 2. KDB 388624 D02 Pre-Approval Guidance List v18, PRE-APPROVAL GUIDANCE LIST 3. FCC Presentations TCB Workshop November 2019, RF exposure procedures.
ISED	1. RSS 102 Issue 6 - Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

2. General conditions, competences and guarantees

- ✓ Tests performed under FCC standards identified in section 1 are covered by A2LA accreditation.
- ✓ Tests performed under ISED standards identified in section 1 are covered by Cofrac accreditation.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 laboratory accredited by the American Association for Laboratory Accreditation (A2LA) with the certificate number 3478.01.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm recognized by the FCC, with Designation Number FR0011.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 testing laboratory accredited by the French Committee for Accreditation (Cofrac) with the certificate number 1-6736.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by ISED, with ISED company number 1000Y and CAB identifier FR0005.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.

3. Environmental Conditions

- ✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	AVG: 21,36°C Min: 20,59°C Max: 21,98°C
Humidity	AVG: 51,70%rh Min: 44,70%rh Max: 57,43%rh

4. Test Sample

Sample	ID #	Description	Model	Serial #	Note
#1	240816-04.S05	Convertible PC	TPN-W166	ABC43901QG	-

5. EUT Features

The herein information is provided by the customer.

Intel WRF Lab declines any responsibility for the accuracy of the stated customer provided information, especially if it has any impact on the correctness of test results presented in this report.

Brand Name	HP	
Model Name	TPN-W166	
Prototype / Production	Production	
Host Identification	Convertible PC	
Supported Radios	802.11b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax	5.2GHz (5150.0 – 5250.0 MHz)
		5.3GHz (5250.0 – 5350.0 MHz)
		5.6GHz (5470.0 – 5725.0 MHz)
		5.8GHz (5725.0 – 5895.0 MHz)
	802.11ax	6.0GHz (5925.0 – 7125.0 MHz)
	Bluetooth	2.4GHz (2400.0 – 2483.5 MHz)

6. Remarks and comments

1. The test report is a validation of the G sensor functionality

7. Test Results summary

The statement of conformity to applicable standards in the table below are based on the measured values, without considering the measurement uncertainties.

7.1. WLAN Tx Power Table Summary

Device Mode	Lid Angle range	LCD Direction	2.4GHz-CH6 802.11b - 1Mbps				5GHz-CH120 802.11a - 6Mbps			
			Target Power (dBm)		Measured Power (dBm)		Target Power (dBm)		Measured Power (dBm)	
			Ant AUX (1)	Ant MAIN (2)	Ant AUX (1)	Ant MAIN (2)	Ant AUX (1)	Ant MAIN (2)	Ant AUX (1)	Ant MAIN (2)
Lid Close	$0^{\circ} \leq \varphi < 35^{\circ}$	-	18.5	18.5	17.5	18.0	16.5	16.5	15.8	15.7
Notebook	$35^{\circ} \leq \varphi < 159^{\circ}$	0°	20.5	18.5	19.4	18.0	20.5	20.5	19.8	19.7
Stand	$201^{\circ} \leq \varphi < 340^{\circ}$	0°	20.5	18.5	19.4	18.0	20.5	20.5	19.8	19.7
Tent	$201^{\circ} \leq \varphi \leq 340^{\circ}$	180°	18.5	18.5	17.5	18.0	16.5	16.5	15.8	15.7
Tablet	$160^{\circ} < \varphi \leq 360^{\circ}$	0°	18.5	18.5	17.5	18.0	16.5	16.5	15.8	15.7
Book	$35^{\circ} \leq \varphi < 200^{\circ}$	90° or 270°	18.5	18.5	17.5	18.0	16.5	16.5	15.8	15.7

8. Document Revision History

Revision #	Modified by	Revision Details
Rev.00	Estelle GILLES	First Issue

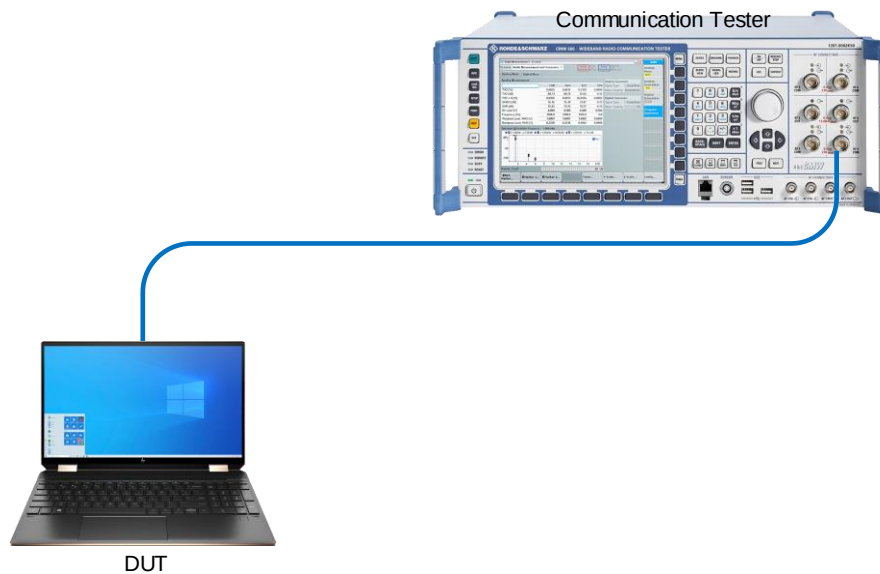
Annex A. Test & System description

A.1 Test setup

The conducted power measurement test setup is described in the following and illustrated in Figure 1.

- The DUT is convertible PC from HP model TPN-W166. An AX211NGW connectivity module is installed inside
- Uplink signal power is measured with the access point.
- Path loss in the power measurement setup from the wireless module antenna port to the access point is compensated
- ANT tool version 01908.23.70.0 is used on the DUT to query the power table index and sensor status

Figure.1 – Power measurement test setup.



A.2 Procedure

The following additional guidance applies only to convertible laptops whose screen rotates around one axis, from 0 degrees to 360 degrees, in a clamshell style, i.e., from closed mode to open mode, to “tent” mode, and finally, to tablet mode. This process must be followed to determine the lid angle where a power reduction occurs, by taking power measurements at each step, as indicated in the step listed here below:

1. From the lid in closed mode (0 degrees), open the screen in 10-degree steps until laptop mode is obtained
2. Lower the screen by 5 degrees increments to verify that the “closed mode” is triggered
3. From the position of the previous step, open the screen in 1-degree increments until laptop mode is triggered again
4. Continue opening the screen in 1-degree increments until at least 5 degrees past where “laptop mode” was obtained, then continue opening the screen in 10-degree steps until the device switches to tablet mode
5. Reverse the previous procedure to go from tablet mode back down to closed mode

A.3 Test Equipment List

Equipment and accessories used for the conducted power measurement test setup are listed below. The Test Platform (DUT), test setup and associated equipment are shown in A.1.3.

A.4 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the table below with a coverage factor of $k = 2$ to indicate a 95% level of confidence:

Measurement type	Uncertainty	Unit
Power level	± 1	dB

Annex B. Test Results

The herein test results were performed by:

Test case measurement	Test Personnel
G-Sensor functionality	Estelle GILLES

B.1 Trigger lid angle detection and power verification 2.4GHz**B.1.1 LCD direction 0°**

The lid is rotating from 0° to 360°. The screen is vertical, LCD direction is 0°

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Lid close	0	17.5	18.0
Lid close	10	17.5	18.0
Lid close	20	17.5	18.0
Lid close	30	17.5	18.0
Notebook	40	19.4	18.0
Lid close	34	17.5	18.0
Notebook	35	19.4	18.0
Notebook	36	19.4	18.0
Notebook	37	19.4	18.0
Notebook	38	19.4	18.0
Notebook	39	19.4	18.0
Notebook	40	19.4	18.0
Notebook	50	19.4	18.0
Notebook	60	19.4	18.0
Notebook	70	19.4	18.0
Notebook	80	19.4	18.0
Notebook	90	19.4	18.0
Notebook	100	19.4	18.0
Notebook	110	19.4	18.0
Notebook	120	19.4	18.0
Notebook	130	19.4	18.0
Notebook	140	19.4	18.0
Notebook	150	19.4	18.0
Tablet	160	17.5	18.0
Notebook	151	19.4	18.0
Notebook	152	19.4	18.0
Notebook	153	19.4	18.0
Notebook	154	19.4	18.0
Notebook	155	19.4	18.0
Notebook	156	19.4	18.0
Notebook	157	19.4	18.0
Notebook	158	19.4	18.0
Notebook	159	19.4	18.0
Tablet	160	17.5	18.0
Tablet	180	17.5	18.0
Tablet	190	17.5	18.0
Tablet	200	17.5	18.0

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Stand	210	19.4	18.0
Stand	205	19.4	18.0
Tablet	200	17.5	18.0
Stand	201	19.4	18.0
Stand	202	19.4	18.0
Stand	203	19.4	18.0
Stand	204	19.4	18.0
Stand	205	19.4	18.0
Stand	206	19.4	18.0
Stand	207	19.4	18.0
Stand	208	19.4	18.0
Stand	209	19.4	18.0
Stand	210	19.4	18.0
Stand	211	19.4	18.0
Stand	220	19.4	18.0
Stand	230	19.4	18.0
Stand	240	19.4	18.0
Stand	250	19.4	18.0
Stand	260	19.4	18.0
Stand	270	19.4	18.0
Stand	280	19.4	18.0
Stand	290	19.4	18.0
Stand	300	19.4	18.0
Stand	310	19.4	18.0
Stand	320	19.4	18.0
Stand	330	19.4	18.0
Stand	340	19.4	18.0
Tablet	350	17.5	18.0
Tablet	345	17.5	18.0
Tablet	340	17.5	18.0
Tablet	341	17.5	18.0
Tablet	342	17.5	18.0
Tablet	343	17.5	18.0
Tablet	344	17.5	18.0
Tablet	345	17.5	18.0
Tablet	346	17.5	18.0
Tablet	347	17.5	18.0
Tablet	348	17.5	18.0
Tablet	349	17.5	18.0
Tablet	350	17.5	18.0
Tablet	360	17.5	18.0

The lid is rotating from 360° to 0°. The screen is vertical, LCD direction to 0°.

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Tablet	360	17.5	18.0
Tablet	350	17.5	18.0
Tablet	340	17.5	18.0
Stand	330	19.4	18.0
Stand	335	19.4	18.0
Tablet	340	17.5	18.0
Stand	339	19.4	18.0
Stand	338	19.4	18.0
Stand	337	19.4	18.0
Stand	336	19.4	18.0
Stand	335	19.4	18.0
Stand	334	19.4	18.0
Stand	333	19.4	18.0
Stand	332	19.4	18.0
Stand	331	19.4	18.0
Stand	330	19.4	18.0
Stand	320	19.4	18.0
Stand	310	19.4	18.0
Stand	300	19.4	18.0
Stand	290	19.4	18.0
Stand	280	19.4	18.0
Stand	270	19.4	18.0
Stand	260	19.4	18.0
Stand	250	19.4	18.0
Stand	240	19.4	18.0
Stand	230	19.4	18.0
Stand	220	19.4	18.0
Stand	210	19.4	18.0
Stand	200	19.4	18.0
Tablet	190	17.5	18.0
Tablet	195	17.5	18.0
Stand	200	19.4	18.0
Tablet	199	17.5	18.0
Tablet	198	17.5	18.0
Tablet	197	17.5	18.0
Tablet	196	17.5	18.0
Tablet	195	17.5	18.0
Tablet	194	17.5	18.0
Tablet	193	17.5	18.0
Tablet	192	17.5	18.0
Tablet	191	17.5	18.0
Tablet	190	17.5	18.0

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Tablet	180	17.5	18.0
Tablet	170	17.5	18.0
Tablet	160	17.5	18.0
Notebook	150	19.4	18.0
Tablet	155	17.5	18.0
Tablet	160	17.5	18.0
Notebook	159	19.4	18.0
Notebook	158	19.4	18.0
Notebook	157	19.4	18.0
Notebook	156	19.4	18.0
Notebook	155	19.4	18.0
Notebook	154	19.4	18.0
Notebook	153	19.4	18.0
Notebook	152	19.4	18.0
Notebook	151	19.4	18.0
Notebook	150	19.4	18.0
Notebook	140	19.4	18.0
Notebook	130	19.4	18.0
Notebook	120	19.4	18.0
Notebook	110	19.4	18.0
Notebook	100	19.4	18.0
Notebook	90	19.4	18.0
Notebook	80	19.4	18.0
Notebook	70	19.4	18.0
Notebook	60	19.4	18.0
Notebook	50	19.4	18.0
Notebook	40	19.4	18.0
Lid close	30	17.5	18.0
Lid close	35	17.5	18.0
Notebook	40	19.4	18.0
Notebook	39	19.4	18.0
Notebook	38	19.4	18.0
Notebook	37	19.4	18.0
Notebook	36	19.4	18.0
Notebook	35	19.4	18.0
Lid close	34	17.5	18.0
Lid close	33	17.5	18.0
Lid close	32	17.5	18.0
Lid close	31	17.5	18.0
Lid close	30	17.5	18.0
Lid close	20	17.5	18.0
Lid close	10	17.5	18.0
Lid close	0	17.5	18.0

B.1.2 LCD direction 180°

The lid is rotating from 200° to 360°. The screen is vertical, LCD direction to 180°.

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Tablet	200	17.5	18.0
Tent	210	17.5	18.0
Tent	205	17.5	18.0
Tablet	200	17.5	18.0
Tent	201	17.5	18.0
Tent	202	17.5	18.0
Tent	203	17.5	18.0
Tent	204	17.5	18.0
Tent	205	17.5	18.0
Tent	206	17.5	18.0
Tent	207	17.5	18.0
Tent	208	17.5	18.0
Tent	209	17.5	18.0
Tent	210	17.5	18.0
Tent	220	17.5	18.0
Tent	230	17.5	18.0
Tent	240	17.5	18.0
Tent	250	17.5	18.0
Tent	260	17.5	18.0
Tent	270	17.5	18.0
Tent	280	17.5	18.0
Tent	290	17.5	18.0
Tent	300	17.5	18.0
Tent	310	17.5	18.0
Tent	320	17.5	18.0
Tent	330	17.5	18.0
Tent	340	17.5	18.0
Tablet	350	17.5	18.0
Tablet	345	17.5	18.0
Tent	340	17.5	18.0
Tablet	341	17.5	18.0
Tablet	342	17.5	18.0
Tablet	343	17.5	18.0
Tablet	344	17.5	18.0
Tablet	345	17.5	18.0
Tablet	346	17.5	18.0
Tablet	347	17.5	18.0
Tablet	348	17.5	18.0
Tablet	349	17.5	18.0
Tablet	350	17.5	18.0
Tablet	360	17.5	18.0

The lid is rotating from 360° to 180°. The screen is vertical, LCD direction to 180°.

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Ch6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Ch6 Main (2) Ant.
Tablet	360	17.5	18.0
Tablet	350	17.5	18.0
Tent	340	17.5	18.0
Tablet	345	17.5	18.0
Tent	340	17.5	18.0
Tablet	349	17.5	18.0
Tablet	348	17.5	18.0
Tablet	347	17.5	18.0
Tablet	346	17.5	18.0
Tablet	345	17.5	18.0
Tablet	344	17.5	18.0
Tablet	343	17.5	18.0
Tablet	342	17.5	18.0
Tablet	341	17.5	18.0
Tent	340	17.5	18.0
Tent	330	17.5	18.0
Tent	320	17.5	18.0
Tent	310	17.5	18.0
Tent	300	17.5	18.0
Tent	290	17.5	18.0
Tent	280	17.5	18.0
Tent	270	17.5	18.0
Tent	260	17.5	18.0
Tent	250	17.5	18.0
Tent	240	17.5	18.0
Tent	230	17.5	18.0
Tent	220	17.5	18.0
Tent	210	17.5	18.0
Tablet	200	17.5	18.0
Tent	210	17.5	18.0
Tent	205	17.5	18.0
Tent	204	17.5	18.0
Tent	203	17.5	18.0
Tent	202	17.5	18.0
Tent	201	17.5	18.0
Tablet	200	17.5	18.0

B.1.3 LCD direction 90° or 270°

The lid is rotating from 0° to 200°. The screen is vertical, LCD direction to 90° or 270°.

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Channel 6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Channel 6 Main (2) Ant.
Lid close	0	17.5	18.0
Lid close	10	17.5	18.0
Lid close	20	17.5	18.0
Lid close	30	17.5	18.0
Book	40	17.5	18.0
Book	35	17.5	18.0
Lid close	30	17.5	18.0
Lid close	31	17.5	18.0
Lid close	32	17.5	18.0
Lid close	33	17.5	18.0
Lid close	34	17.5	18.0
Book	35	17.5	18.0
Book	36	17.5	18.0
Book	37	17.5	18.0
Book	38	17.5	18.0
Book	39	17.5	18.0
Book	40	17.5	18.0
Book	50	17.5	18.0
Book	60	17.5	18.0
Book	70	17.5	18.0
Book	80	17.5	18.0
Book	90	17.5	18.0
Book	100	17.5	18.0
Book	110	17.5	18.0
Book	120	17.5	18.0
Book	130	17.5	18.0
Book	140	17.5	18.0
Book	150	17.5	18.0
Book	160	17.5	18.0
Book	170	17.5	18.0
Book	180	17.5	18.0
Book	190	17.5	18.0
Tablet	200	17.5	18.0

The lid is rotating from 200° to 0°. The screen is vertical, LCD direction to 90° or 270°.

Device Mode	Angle (°)	Meas. Power (dBm) 2.4GHz Channel 6 Aux (1) Ant.	Meas. Power (dBm) 2.4GHz Channel 6 Main (2) Ant.
Tablet	200	17.5	18.0
Book	190	17.5	18.0
Book	180	17.5	18.0
Book	170	17.5	18.0
Book	160	17.5	18.0
Book	150	17.5	18.0
Book	140	17.5	18.0
Book	130	17.5	18.0
Book	120	17.5	18.0
Book	110	17.5	18.0
Book	100	17.5	18.0
Book	90	17.5	18.0
Book	80	17.5	18.0
Book	70	17.5	18.0
Book	60	17.5	18.0
Book	50	17.5	18.0
Book	40	17.5	18.0
Lid close	30	17.5	18.0
Book	35	17.5	18.0
Book	40	17.5	18.0
Book	39	17.5	18.0
Book	38	17.5	18.0
Book	37	17.5	18.0
Book	36	17.5	18.0
Book	35	17.5	18.0
Lid close	34	17.5	18.0
Lid close	32	17.5	18.0
Lid close	31	17.5	18.0
Lid close	30	17.5	18.0
Lid close	29	17.5	18.0
Lid close	20	17.5	18.0
Lid close	10	17.5	18.0
Lid close	0	17.5	18.0

B.2 Trigger lid angle detection and power verification 5GHz

B.2.1 LCD direction 0°

The lid is rotating from 0° to 360°. The screen is vertical, LCD direction is 0°

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Lid close	0	15.8	15.7
Lid close	10	15.8	15.7
Lid close	20	15.8	15.7
Lid close	30	15.8	15.7
Notebook	40	19.8	19.7
Lid close	34	15.8	15.7
Notebook	35	19.8	19.7
Notebook	36	19.8	19.7
Notebook	37	19.8	19.7
Notebook	38	19.8	19.7
Notebook	39	19.8	19.7
Notebook	40	19.8	19.7
Notebook	50	19.8	19.7
Notebook	60	19.8	19.7
Notebook	70	19.8	19.7
Notebook	80	19.8	19.7
Notebook	90	19.8	19.7
Notebook	100	19.8	19.7
Notebook	110	19.8	19.7
Notebook	120	19.8	19.7
Notebook	130	19.8	19.7
Notebook	140	19.8	19.7
Notebook	150	19.8	19.7
Tablet	160	15.8	15.7
Notebook	151	19.8	19.7
Notebook	152	19.8	19.7
Notebook	153	19.8	19.7
Notebook	154	19.8	19.7
Notebook	155	19.8	19.7
Notebook	156	19.8	19.7
Notebook	157	19.8	19.7
Notebook	158	19.8	19.7
Notebook	159	19.8	19.7
Tablet	160	15.8	15.7
Tablet	180	15.8	15.7
Tablet	190	15.8	15.7
Tablet	200	15.8	15.7

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Stand	210	19.8	19.7
Stand	205	19.8	19.7
Tablet	200	15.8	15.7
Stand	201	19.8	19.7
Stand	202	19.8	19.7
Stand	203	19.8	19.7
Stand	204	19.8	19.7
Stand	205	19.8	19.7
Stand	206	19.8	19.7
Stand	207	19.8	19.7
Stand	208	19.8	19.7
Stand	209	19.8	19.7
Stand	210	19.8	19.7
Stand	211	19.8	19.7
Stand	220	19.8	19.7
Stand	230	19.8	19.7
Stand	240	19.8	19.7
Stand	250	19.8	19.7
Stand	260	19.8	19.7
Stand	270	19.8	19.7
Stand	280	19.8	19.7
Stand	290	19.8	19.7
Stand	300	19.8	19.7
Stand	310	19.8	19.7
Stand	320	19.8	19.7
Stand	330	19.8	19.7
Stand	340	19.8	19.7
Tablet	350	15.8	15.7
Tablet	345	15.8	15.7
Tablet	340	15.8	15.7
Tablet	341	15.8	15.7
Tablet	342	15.8	15.7
Tablet	343	15.8	15.7
Tablet	344	15.8	15.7
Tablet	345	15.8	15.7
Tablet	346	15.8	15.7
Tablet	347	15.8	15.7
Tablet	348	15.8	15.7
Tablet	349	15.8	15.7
Tablet	350	15.8	15.7
Tablet	360	15.8	15.7

The lid is rotating from 360° to 0°. The screen is vertical, LCD direction to 0°.

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Tablet	360	15.8	15.7
Tablet	350	15.8	15.7
Tablet	340	15.8	15.7
Stand	330	19.8	19.7
Stand	335	19.8	19.7
Tablet	340	15.8	15.7
Stand	339	19.8	19.7
Stand	338	19.8	19.7
Stand	337	19.8	19.7
Stand	336	19.8	19.7
Stand	335	19.8	19.7
Stand	334	19.8	19.7
Stand	333	19.8	19.7
Stand	332	19.8	19.7
Stand	331	19.8	19.7
Stand	330	19.8	19.7
Stand	320	19.8	19.7
Stand	310	19.8	19.7
Stand	300	19.8	19.7
Stand	290	19.8	19.7
Stand	280	19.8	19.7
Stand	270	19.8	19.7
Stand	260	19.8	19.7
Stand	250	19.8	19.7
Stand	240	19.8	19.7
Stand	230	19.8	19.7
Stand	220	19.8	19.7
Stand	210	19.8	19.7
Stand	200	19.8	19.7
Tablet	190	15.8	15.7
Tablet	195	15.8	15.7
Stand	200	19.8	19.7
Tablet	199	15.8	15.7
Tablet	198	15.8	15.7
Tablet	197	15.8	15.7
Tablet	196	15.8	15.7
Tablet	195	15.8	15.7
Tablet	194	15.8	15.7
Tablet	193	15.8	15.7
Tablet	192	15.8	15.7
Tablet	191	15.8	15.7
Tablet	190	15.8	15.7

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Tablet	180	15.8	15.7
Tablet	170	15.8	15.7
Tablet	160	15.8	15.7
Notebook	150	19.8	19.7
Tablet	155	15.8	15.7
Tablet	160	15.8	15.7
Notebook	159	19.8	19.7
Notebook	158	19.8	19.7
Notebook	157	19.8	19.7
Notebook	156	19.8	19.7
Notebook	155	19.8	19.7
Notebook	154	19.8	19.7
Notebook	153	19.8	19.7
Notebook	152	19.8	19.7
Notebook	151	19.8	19.7
Notebook	150	19.8	19.7
Notebook	140	19.8	19.7
Notebook	130	19.8	19.7
Notebook	120	19.8	19.7
Notebook	110	19.8	19.7
Notebook	100	19.8	19.7
Notebook	90	19.8	19.7
Notebook	80	19.8	19.7
Notebook	70	19.8	19.7
Notebook	60	19.8	19.7
Notebook	50	19.8	19.7
Notebook	40	19.8	19.7
Lid close	30	15.8	15.7
Lid close	35	15.8	15.7
Notebook	40	19.8	19.7
Notebook	39	19.8	19.7
Notebook	38	19.8	19.7
Notebook	37	19.8	19.7
Notebook	36	19.8	19.7
Notebook	35	19.8	19.7
Lid close	34	15.8	15.7
Lid close	33	15.8	15.7
Lid close	32	15.8	15.7
Lid close	31	15.8	15.7
Lid close	30	15.8	15.7
Lid close	20	15.8	15.7
Lid close	10	15.8	15.7
Lid close	0	15.8	15.7

B.2.2 LCD direction 180°

The lid is rotating from 180° to 360°. The screen is vertical, LCD direction to 180°.

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Tablet	200	15.8	15.7
Tent	210	15.8	15.7
Tent	205	15.8	15.7
Tablet	200	15.8	15.7
Tent	201	15.8	15.7
Tent	202	15.8	15.7
Tent	203	15.8	15.7
Tent	204	15.8	15.7
Tent	205	15.8	15.7
Tent	206	15.8	15.7
Tent	207	15.8	15.7
Tent	208	15.8	15.7
Tent	209	15.8	15.7
Tent	210	15.8	15.7
Tent	220	15.8	15.7
Tent	230	15.8	15.7
Tent	240	15.8	15.7
Tent	250	15.8	15.7
Tent	260	15.8	15.7
Tent	270	15.8	15.7
Tent	280	15.8	15.7
Tent	290	15.8	15.7
Tent	300	15.8	15.7
Tent	310	15.8	15.7
Tent	320	15.8	15.7
Tent	330	15.8	15.7
Tent	340	15.8	15.7
Tablet	350	15.8	15.7
Tablet	345	15.8	15.7
Tent	340	15.8	15.7
Tablet	341	15.8	15.7
Tablet	342	15.8	15.7
Tablet	343	15.8	15.7
Tablet	344	15.8	15.7
Tablet	345	15.8	15.7
Tablet	346	15.8	15.7
Tablet	347	15.8	15.7
Tablet	348	15.8	15.7
Tablet	349	15.8	15.7
Tablet	350	15.8	15.7
Tablet	360	15.8	15.7
Tablet	200	15.8	15.7
Tent	210	15.8	15.7

The lid is rotating from 360° to 180°. The screen is vertical, LCD direction to 180°.

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Tablet	360	15.8	15.7
Tablet	350	15.8	15.7
Tent	340	15.8	15.7
Tablet	345	15.8	15.7
Tent	340	15.8	15.7
Tablet	349	15.8	15.7
Tablet	348	15.8	15.7
Tablet	347	15.8	15.7
Tablet	346	15.8	15.7
Tablet	345	15.8	15.7
Tablet	344	15.8	15.7
Tablet	343	15.8	15.7
Tablet	342	15.8	15.7
Tablet	341	15.8	15.7
Tent	340	15.8	15.7
Tent	330	15.8	15.7
Tent	320	15.8	15.7
Tent	310	15.8	15.7
Tent	300	15.8	15.7
Tent	290	15.8	15.7
Tent	280	15.8	15.7
Tent	270	15.8	15.7
Tent	260	15.8	15.7
Tent	250	15.8	15.7
Tent	240	15.8	15.7
Tent	230	15.8	15.7
Tent	220	15.8	15.7
Tent	210	15.8	15.7
Tablet	200	15.8	15.7
Tent	210	15.8	15.7
Tent	205	15.8	15.7
Tent	204	15.8	15.7
Tent	203	15.8	15.7
Tent	202	15.8	15.7
Tent	201	15.8	15.7
Tablet	200	15.8	15.7

B.2.3 LCD direction 90° or 270°

The lid is rotating from 0° to 200°. The screen is vertical, LCD direction to 90° or 270°.

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Lid close	0	15.8	15.7
Lid close	10	15.8	15.7
Lid close	20	15.8	15.7
Lid close	30	15.8	15.7
Book	40	15.8	15.7
Book	35	15.8	15.7
Lid close	30	15.8	15.7
Lid close	31	15.8	15.7
Lid close	32	15.8	15.7
Lid close	33	15.8	15.7
Lid close	34	15.8	15.7
Book	35	15.8	15.7
Book	36	15.8	15.7
Book	37	15.8	15.7
Book	38	15.8	15.7
Book	39	15.8	15.7
Book	40	15.8	15.7
Book	50	15.8	15.7
Book	60	15.8	15.7
Book	70	15.8	15.7
Book	80	15.8	15.7
Book	90	15.8	15.7
Book	100	15.8	15.7
Book	110	15.8	15.7
Book	120	15.8	15.7
Book	130	15.8	15.7
Book	140	15.8	15.7
Book	150	15.8	15.7
Book	160	15.8	15.7
Book	170	15.8	15.7
Book	180	15.8	15.7
Book	190	15.8	15.7
Tablet	200	15.8	15.7

The lid is rotating from 200° to 0°. The screen is vertical, LCD direction to 90° or 270°.

Device Mode	Angle (°)	Meas. Power (dBm) 5GHz Ch120 Aux (1) Ant.	Meas. Power (dBm) 5GHz Ch120 Main (2) Ant.
Tablet	200	15.8	15.7
Book	190	15.8	15.7
Book	180	15.8	15.7
Book	170	15.8	15.7
Book	160	15.8	15.7
Book	150	15.8	15.7
Book	140	15.8	15.7
Book	130	15.8	15.7
Book	120	15.8	15.7
Book	110	15.8	15.7
Book	100	15.8	15.7
Book	90	15.8	15.7
Book	80	15.8	15.7
Book	70	15.8	15.7
Book	60	15.8	15.7
Book	50	15.8	15.7
Book	40	15.8	15.7
Lid close	30	15.8	15.7
Book	35	15.8	15.7
Book	40	15.8	15.7
Book	39	15.8	15.7
Book	38	15.8	15.7
Book	37	15.8	15.7
Book	36	15.8	15.7
Book	35	15.8	15.7
Lid close	34	15.8	15.7
Lid close	32	15.8	15.7
Lid close	31	15.8	15.7
Lid close	30	15.8	15.7
Lid close	29	15.8	15.7
Lid close	20	15.8	15.7
Lid close	10	15.8	15.7
Lid close	0	15.8	15.7

End of the report

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