



FCC RADIO TEST REPORT FCC ID: 2AUVWPB1042

Product : InkPad Eo Trade Mark : PocketBook Model Name : PB1042 Family Model : N/A Report No. : S23120703101004

Prepared for

Pocketbook International SA.

Crocicchio Cortogna 6, 6900, Lugano, Switzerland

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen ,Guangdong, China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website: http://www.ntek.org.cn





TEST RESULT CERTIFICATION

Address Switzerland Crocicchio Cortogna 6, 6900, Lugano, Switzerland
Manufacturer's Name: Pocketbook International SA.
Address Switzerland Crocicchio Cortogna 6, 6900, Lugano, Switzerland
Product description
Product name: InkPad Eo
Model and/or type reference : PB1042
Family Model N/A
Test sample number S231207031001
Standards FCC Part15.407
Test procedure ANSI C63.10-2013 and KDB 789033 D02 General UNII Test Procedures New Rules v02r01
This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements/ the Industry Canada requirements And it is applicable only to the tested sample identified in the report.
This report shall not be reproduced except in full, without the written approval of NTEK, this
document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of
the document.
Date of Test
Date (s) of performance of tests 08 Dec. 2023 ~ 20 Dec, 2023
Date of Issue 21 Dec, 2023
Test Result Pass
Prepared : By : Allen Liu Allen Liu Reviewed : Aavon Cheng By : Aavon Cheng Approved : Allen Li By : Allen Li
By Allen Liu (Project Engineer) By Aaron Cheng (Supervisor) (Manager)





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Revision History									
Version	Description	Issued Date							
Rev.01	Initial issue of report	21 Dec, 2023							
	Version	Version Description							





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15 (15.407) , Subpart E									
Standard Section	Test Item	Judgment	Remark							
15.207	AC Power Line Conducted Emissions	PASS								
15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(6)	Spurious Radiated Emissions	PASS								
15.407 (a)(1) 15.407 (a)(3)	26 dB and 99% Emission Bandwidth	PASS								
15.407(e)	Minimum 6 dB bandwidth	PASS								
15.407 (a)(1) 15.407 (a)(3)	Maximum Conducted Output Power	PASS								
15.407(b)(1) 15.407(b)(4)	Band Edge	PASS								
15.407 (a)(1) 15.407 (a)(3)	Power Spectral Density	PASS								
15.407(b)	Spurious Emissions at Antenna Terminals	PASS								
15.203	Antenna Requirement	PASS								
15.407(c)	Automatically discontinue transmission	PASS								
15.407(g)	Frequency Stability Measurement	PASS								

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report





FACILITIES

All measurement facilities used to collect the measurement data are located at

ilac-MR

1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen ,Guangdong, China.

ACCREDITED Certificate #4298.01

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei
	Community, Hangcheng Street, Baoan District, Shenzhen ,Guangdong,
	China.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB
10	Occupied bandwidth	±4.7dB





2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	InkPad Eo	
Trade Mark	PocketBook	
Model Name	PB1042	
Family Model	N/A	
Model Difference	N/A	
FCC ID	2AUVWPB1042	
	IEEE 802.11 WLAN Mode Supported Data Rate	 №802.11a/n/ac (20MHz channel bandwidth) №802.11n/ac (40MHz channel bandwidth) №802.11ac (80MHz channel bandwidth) 802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20):MCS0-MCS8;
	Modulation	802.11ac(VHT40/VHT80):MCS0-MCS9; OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Product Description	Operating Frequency Range	 S180-5240MHz for 802.11a/n(HT20)/ac(VHT20); 5190-5230MHz for 802.11n(HT40)/ac(VHT40); 5210MHz for 802.11ac(VHT80) S745-5825 MHz for 802.11a/n(HT20)/ac(VHT20); 5755-5795 MHz for 802.11n(HT40)/ac(VHT40); 5775MHz for 802.11ac(VHT80)
	Number of Channels	A channels for 802.11a/n20/ac20 in the 5180-5240MHz band ; 2 channels for 802.11 n40/ac40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 35 channels for 802.11a/n20/ac20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ac40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band ;
	Antenna Type	FPC Antenna 5.2G:2.43dBi
		5.8G: 2.73dBi ation, features, or specification exhibited in User's s of EUT technical specification, please refer to the
Ratings	DC 3.7V from batter	y or DC 5V from USB Port.
Battery	DC 3.7V, 4000mAh	
Adapter	N/A	
Connecting I/O Port(s)	Please refer to the L	Jser's Manual
Hardware version:	V1.1	
Firmware version:	W1042.1.1.0	



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- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- ². Frequency and Channel list for 802.11a/n/ac(20MHz) band I (5180-5240MHz):

Certificate #4298.01

	802.11a/n/ac(20MHz) Carrier Frequency Channel								
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)		
36	5180	44	5220	-	-	-	-		
40	5200	48	5240	-	-	-	-		

Frequency and Channel list for 802.11n/ac(40MHz) band I (5190-5230MHz):

	802.11n/ac(40MHz) Carrier Frequency Channel								
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)		
38	5190	-	-	-	-	-	-		
46	5230	-	-	-	-	-	-		

Frequency and Channel list for 802.11ac(80MHz) band I (5210MHz):

	802.11ac(80MHz) Carrier Frequency Channel								
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)		
42	5210	-	-	-	-	-	-		

Frequency and Channel list for 802.11a/n/ac(20 MHz) band IV (5745-5825MHz):

	802.11a/n/ac(20 MHz) Carrier Frequency Channel								
	Frequen		Frequen		Frequen		Frequen		
Channel	су	Channel	су	Channel	су	Channel	су		
	(MHz)		(MHz)		(MHz)		(MHz)		
149	5745	153	5765	157	5785	161	5805		
165	5825	-	-	-	-	-	-		

Frequency and Channel list for 802.11n/ac(40MHz) band IV (5755-5795MHz):

802.11n/ac(40MHz) Carrier Frequency Channel								
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)			
151	5755	159	5795	-	-			

Frequency and Channel list for 802.11ac(80MHz) band IV (5775MHz):

802.11ac(80MHz) Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775			-	-





2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n 20 /ac 20 CH36/ CH40/ CH 48 802.11a / n 20 / ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n40 / ac40 CH38/ CH 46 802.11n 40 / ac 40 CH 151 / CH 159
Mode 4	802.11ac80 CH 42 802.11ac 80 CH 155

For Radiated Emission				
Final Test Mode Description				
Mode 1	Normal Link Mode			
Mode 2 802.11a / n 20 /ac 20 CH36/ CH40/ CH 4 802.11a / n 20 / ac 20 CH36/ CH40/ CH 4 802.11a / n 20 / ac 20 CH149/ CH157/ CH 1				
Mode 3	802.11n40 / ac40 CH38/ CH 46 802.11n 40 / ac 40 CH 151 / CH 159			
Mode 4	802.11ac80 CH 42 802.11ac 80 CH 155			

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported





2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST	ſED
For AC Conducted Emission Mode	
C-1 AE-1 Adapter Adapter	
For Radiated Test Cases	
EUT	
For Conducted Test Cases	
Instrument EUT	
Note:1.The temporary antenna connector is soldered on the PCB board in order to per and this temporary antenna connector is listed in the equipment list. 2.EUT built-in battery-powered, the battery is fully-charged.	rform conducted tests





2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
	InkPad Eo	PB1042	N/A	EUT
AE-1	Adapter	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	0.8m
C-2	RF Cable	YES	NO	0.1m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in $\[$ Length $\]$ column.

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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

luului		rest equipment					
Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023.05.29	2024.05.28	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2023.03.27	2024.03.26	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.03.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.27	2024.03.26	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2023.03.27	2024.03.26	1 year
8	Amplifier	EMC	EMC051835 SE	980246	2023.05.29	2024.05.28	1 year
9	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2023.05.29	2024.05.28	1 year
10	Power Meter	DARE	RPR3006W	15I00041SN 084	2023.05.29	2024.05.28	1 year
11	USB RF Power Sensor	DARE	RPR3006W	15I00041SN 084	2023.05.29	2024.05.28	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2023.05.06	2026.05.05	3 year
16	Filter	TRILTHIC	2400MHz	29	2023.05.29	2024.05.28	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A
18	Low Noise Amplifier	B&Z	BZ-P540-550 850-452727	16476-11729	2023.03.27	2024.03.26	1 year
19	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2023.05.29	2024.05.28	1 year
20	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2023.03.27	2024.03.26	1 year
lote:	•						

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list





AC Conduction Test equipment

	AC Conduction lest equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.



3. TEST REQUIREMENTS

3.1CONDUCTED EMISSION MEASUREMENT

3.1.1 APPLICABLE STANDARD

According to FCC Part 15.207(a)

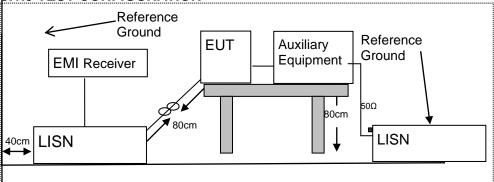
3.1.2 CONFORMANCE LIMIT

	Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.1.3 TEST CONFIGURATION



3.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.



3.1.5 TEST RESULTS

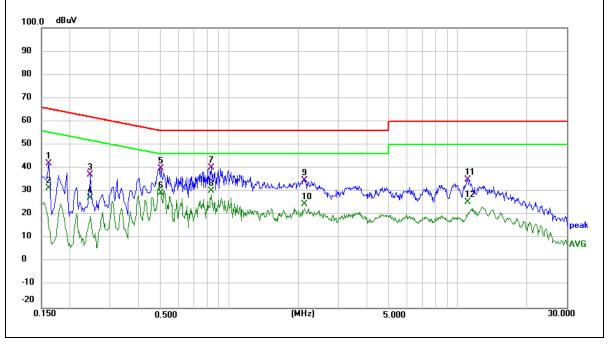
EUT :	InkPad Eo	Model Name :	PB1042	
Temperature :	33 °C	Relative	57%	
	22 C	Humidity :		
Pressure :	1010hPa	Phase :	L	
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)	

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demerle
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	- Remark
0.1620	31.95	9.95	41.90	65.36	-23.46	QP
0.1620	21.59	9.95	31.54	55.36	-23.82	AVG
0.2460	26.99	10.14	37.13	61.89	-24.76	QP
0.2460	17.08	10.14	27.22	51.89	-24.67	AVG
0.5020	29.29	10.65	39.94	56.00	-16.06	QP
0.5020	18.68	10.65	29.33	46.00	-16.67	AVG
0.8340	28.70	11.32	40.02	56.00	-15.98	QP
0.8340	18.93	11.32	30.25	46.00	-15.75	AVG
2.1260	25.11	9.66	34.77	56.00	-21.23	QP
2.1260	14.88	9.66	24.54	46.00	-21.46	AVG
11.0337	25.34	9.69	35.03	60.00	-24.97	QP
11.0337	15.67	9.69	25.36	50.00	-24.64	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.



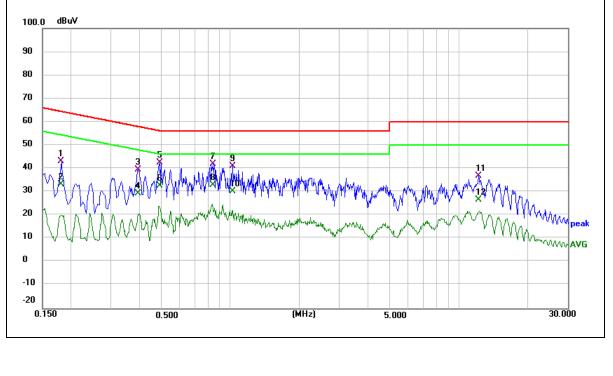




EUT :	InkPad Eo	Model Name :	PB1042
Temperature :	100 Y 1	Relative Humidity:	57%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1819	33.17	9.99	43.16	64.40	-21.24	QP
0.1819	23.16	9.99	33.15	54.40	-21.25	AVG
0.3940	29.19	10.42	39.61	57.98	-18.37	QP
0.3940	18.91	10.42	29.33	47.98	-18.65	AVG
0.4900	32.06	10.63	42.69	56.17	-13.48	QP
0.4900	21.93	10.63	32.56	46.17	-13.61	AVG
0.8420	30.76	11.34	42.10	56.00	-13.90	QP
0.8420	21.68	11.34	33.02	46.00	-12.98	AVG
1.0220	29.22	11.70	40.92	56.00	-15.08	QP
1.0220	18.55	11.70	30.25	46.00	-15.75	AVG
12.2260	27.14	9.70	36.84	60.00	-23.16	QP
12.2260	16.88	9.70	26.58	50.00	-23.42	AVG

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



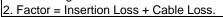


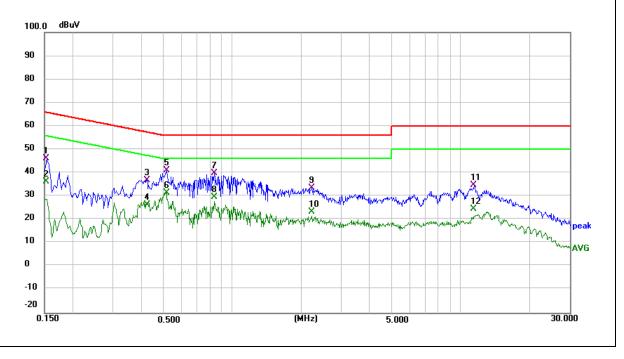


-			
EUT :	InkPad Eo	Model Name :	PB1042
Temperature :	22 ℃	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demerik
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	36.18	9.93	46.11	65.79	-19.68	QP
0.1539	26.40	9.93	36.33	55.79	-19.46	AVG
0.4220	26.29	10.49	36.78	57.41	-20.63	QP
0.4220	15.83	10.49	26.32	47.41	-21.09	AVG
0.5140	30.47	10.67	41.14	56.00	-14.86	QP
0.5140	20.65	10.67	31.32	46.00	-14.68	AVG
0.8340	28.54	11.32	39.86	56.00	-16.14	QP
0.8340	18.26	11.32	29.58	46.00	-16.42	AVG
2.2300	24.01	9.66	33.67	56.00	-22.33	QP
2.2300	13.70	9.66	23.36	46.00	-22.64	AVG
11.4819	25.06	9.69	34.75	60.00	-25.25	QP
11.4819	14.97	9.69	24.66	50.00	-25.34	AVG

1. All readings are Quasi-Peak and Average values.







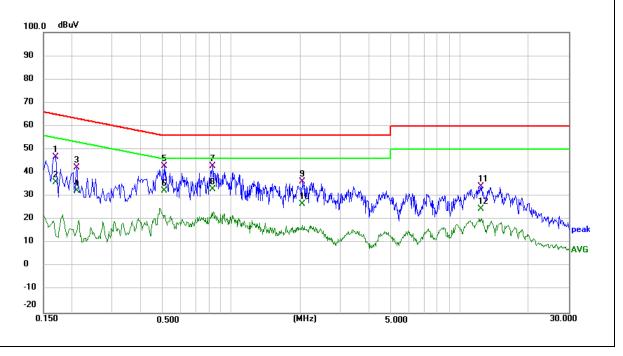


EUT :	InkPad Eo	Model Name :	PB1042
Temperature :	22 ℃	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Dement
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1700	36.68	9.97	46.65	64.96	-18.31	QP
0.1700	26.05	9.97	36.02	54.96	-18.94	AVG
0.2100	32.26	10.06	42.32	63.21	-20.89	QP
0.2100	22.27	10.06	32.33	53.21	-20.88	AVG
0.5100	32.23	10.67	42.90	56.00	-13.10	QP
0.5100	21.78	10.67	32.45	46.00	-13.55	AVG
0.8300	31.52	11.32	42.84	56.00	-13.16	QP
0.8300	21.66	11.32	32.98	46.00	-13.02	AVG
2.0500	26.61	9.66	36.27	56.00	-19.73	QP
2.0500	16.99	9.66	26.65	46.00	-19.35	AVG
12.4819	24.58	9.70	34.28	60.00	-25.72	QP
12.4819	14.80	9.70	24.50	50.00	-25.50	AVG

1. All readings are Quasi-Peak and Average values.









3.2 RADIATED EMISSION MEASUREMENT

3.2.1 APPLICABLE STANDARD According to FCC Part 15.407(b) and 15.209

3.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

MHz	MHz	GHz
16.42-16.423	399.9-410	4.5-5.15
16.69475-16.69525	608-614	5.35-5.46
16.80425-16.80475	960-1240	7.25-7.75
25.5-25.67	1300-1427	8.025-8.5
37.5-38.25	1435-1626.5	9.0-9.2
73-74.6	1645.5-1646.5	9.3-9.5
74.8-75.2	1660-1710	10.6-12.7
123-138	2200-2300	14.47-14.5
149.9-150.05	2310-2390	15.35-16.2
156.52475-156.52525	2483.5-2500	17.7-21.4
156.7-156.9	2690-2900	22.01-23.12
162.0125-167.17	3260-3267	23.6-24.0
167.72-173.2	3332-3339	31.2-31.8
240-285	3345.8-3358	36.43-36.5
322-335.4	3600-4400	(2)
	16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)		
Frequency(iviriz)	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

3.2.3 MEASURING INSTRUMENTS

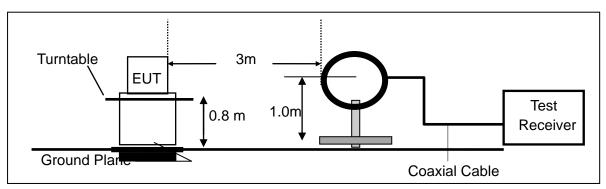
The Measuring equipment is listed in the section 6.3 of this test report.



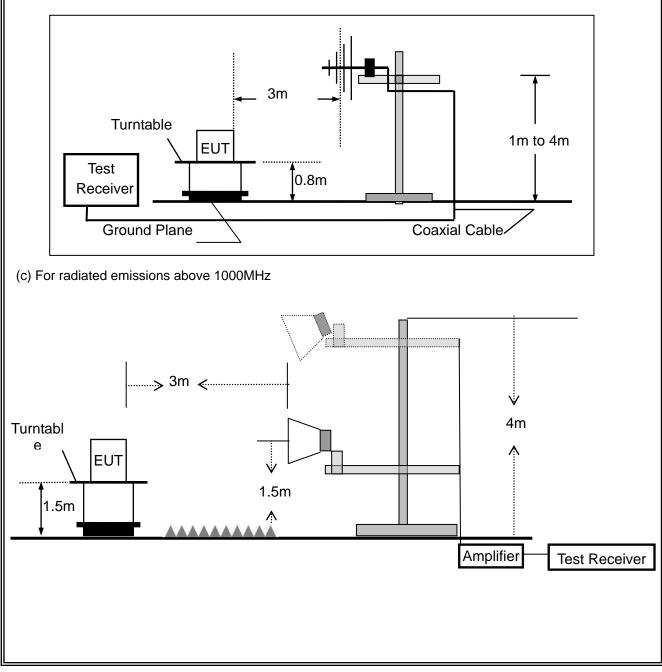


3.2.4 TEST CONFIGURATION

(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz







3.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
AL	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

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3.2.6 TEST RESULTS (9KHz - 30 MHz)

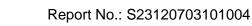
EUT:	InkPad Eo	Model Name. :	PB1042
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	ТХ	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m) (dB)		P/F
				N/A
				N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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3.2.7 TEST RESULTS (30MHz - 1GHz)

EUT:	InkPad Eo	Model Name. :	PB1042
Temperature :	25 ℃	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.2G)- 802.11a (Low CH)	·	
	•		

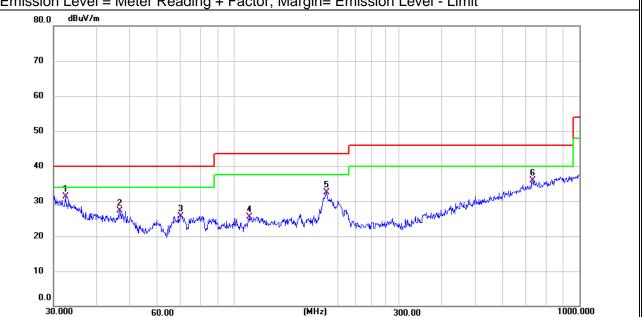
ACCREDITED Certificate #4298.01

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.5197	6.26	25.02	31.28	40.00	-8.72	QP
V	46.6662	10.15	17.11	27.26	40.00	-12.74	QP
V	70.0901	12.35	13.39	25.74	40.00	-14.26	QP
V	110.9570	7.25	18.27	25.52	43.50	-17.98	QP
V	185.1376	16.10	16.48	32.58	43.50	-10.92	QP
V	731,9202	7.61	28.38	35,99	46.00	-10.01	QP

Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit

ilac-MR







(HV) (MHz) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) H 30.7454 5.65 26.00 31.65 40.00 -8.35 QP H 79.5210 9.14 15.21 24.35 40.00 -15.65 QP H 184.4898 12.41 16.52 28.93 43.50 -14.57 QP H 214.5141 13.96 16.62 30.58 43.50 -12.92 QP H 777.2590 7.59 22.63 30.22 46.00 -10.06 QP Remark: Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit 9	Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
H 79.5210 9.14 15.21 24.35 40.00 -15.65 QP H 184.4898 12.41 16.52 28.93 43.50 -14.57 QP H 214.5141 13.96 16.62 30.58 43.50 -12.92 QP H 377.2590 7.59 22.63 30.22 46.00 -15.78 QP H 711.6734 7.91 28.03 35.94 46.00 -10.06 QP Remark: Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit 30.0 0 48.07m 90.0 48.07m 46.00 -10.06 QP 12.92 0 10 0 0 -16.62 0 12.92 18.03 18.03 19.04 19.05 <td colsp<="" th=""><th>(H/V)</th><th>(MHz)</th><th>(dBuV)</th><th>(dB)</th><th>(dBuV/m)</th><th>(dBuV/m)</th><th>(dB)</th><th></th></td>	<th>(H/V)</th> <th>(MHz)</th> <th>(dBuV)</th> <th>(dB)</th> <th>(dBuV/m)</th> <th>(dBuV/m)</th> <th>(dB)</th> <th></th>	(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H 184.4898 12.41 16.52 28.93 43.50 -14.57 QP H 214.5141 13.96 16.62 30.58 43.50 -12.92 QP H 377.2590 7.59 22.63 30.22 46.00 -15.78 QP H 711.6734 7.91 28.03 35.94 46.00 -10.06 QP Remark: Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit 80.0 dBuV/m dBuV/m	Н	30.7454	5.65	26.00	31.65	40.00	-8.35	QP	
H 214.5141 13.96 16.62 30.58 43.50 -12.92 QP H 377.2590 7.59 22.63 30.22 46.00 -15.78 QP H 711.6734 7.91 28.03 35.94 46.00 -10.06 QP Remark: Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit #0.0 dBuV/m	Н	79.5210	9.14	15.21	24.35	40.00	-15.65	QP	
H 377.2590 7.59 22.63 30.22 46.00 -15.78 QP H 711.6734 7.91 28.03 35.94 46.00 -10.06 QP Remark: Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit 80.0 dBwV/m	Н	184.4898	12.41	16.52	28.93	43.50	-14.57	QP	
H 711.6734 7.91 28.03 35.94 46.00 -10.06 QP Remark: Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit 80.0 dBwV/m 70 60 50 40 40	Н	214.5141	13.96	16.62	30.58	43.50	-12.92	QP	
Remark: Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit	Н	377.2590	7.59	22.63	30.22	46.00	-15.78	QP	
Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit	Н	711.6734	7.91	28.03	35.94	46.00	-10.06	QP	
			Reading + F	Factor, Mar	gin= Emission	Level - Limit			
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	50								
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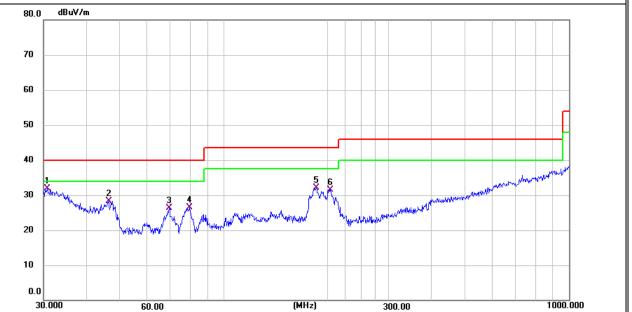




EUT:	InkPad Eo	Model Name. :	PB1042
Temperature :	25 ℃	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.8G)- 802.11a (Low CH)		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.7454	5.85	26.00	31.85	40.00	-8.15	QP
V	46.3402	10.99	17.30	28.29	40.00	-11.71	QP
V	69.3568	13.06	13.24	26.30	40.00	-13.70	QP
V	79.5210	11.27	15.21	26.48	40.00	-13.52	QP
V	185.1374	15.59	16.48	32.07	43.50	-11.43	QP
V	203.5226	15.23	16.30	31.53	43.50	-11.97	QP

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit







Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark			
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)				
Н	31.2892	4.07	25.70	29.77	40.00	-10.23	QP			
Н	76.7806	8.25	14.71	22.96	40.00	-17.04	QP			
Н	183.8440	11.28	16.56	27.84	43.50	-15.66	QP			
Н	201.3930	12.96	16.25	29.21	43.50	-14.29	QP			
Н	386.6338	6.64	22.83	29.47	46.00	-16.53	QP			
Н	601.4265	7.55	26.31	33.86	46.00	-12.14	QP			
Remark: Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit										
80.0	dBu¥/m									
70										
60										
50										
40						6	de se de la constanció de			
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Report No.: S23120703101004





3.2.8 TEST RESULTS (1GHz-18GHz)

EUT :	InkPad Eo	Model Name. :	PB1042			
Temperature :	20 ℃	Relative Humidity :	48%			
Pressure :	1010 hPa	Test Voltage :	DC 3.7V			
Test Mode :	TX(5.2G) - 802.11a _5180~5240MHz					

Deler	F	Meter	Cable	Antenna	Preamp	Emission	Lingite	Manain	Detector			
Polar	Frequency	Reading	loss	Factor	Factor	Level	Limits	Margin	Туре			
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)				
	Low Channel (5180 MHz)-Above 1G											
Vertical	Vertical 3694.10 59.48 5.94 35.40 44.00 56.82 74.00 -17.18 Pk											
Vertical	3694.10	40.77	5.94	35.40	44.00	38.11	54.00	-15.89	AV			
Vertical	10360.15	59.25	8.46	39.75	44.50	62.96	68.20	-5.24	Pk			
Vertical	15540.22	60.87	10.12	38.80	44.10	65.69	74.00	-8.31	Pk			
Vertical	15540.22	39.48	10.12	38.80	42.70	45.70	54.00	-8.30	AV			
Horizontal	3713.00	60.39	5.94	35.18	44.00	57.51	74.00	-16.49	Pk			
Horizontal	3713.00	40.81	5.94	35.18	44.00	37.93	54.00	-16.07	AV			
Horizontal	10360.47	59.94	8.46	38.71	44.50	62.61	68.20	-5.59	Pk			
Horizontal	15540.38	60.76	10.12	38.38	44.10	65.16	74.00	-8.84	Pk			
Horizontal	15540.38	39.95	10.12	38.38	44.10	44.35	54.00	-9.65	AV			
			middle	Channel (520	00 MHz)-Abo	ove 1G						
Vertical	3624.13	59.18	6.48	36.35	44.05	57.96	74.00	-16.04	Pk			
Vertical	3624.13	40.69	6.48	36.35	44.05	39.47	54.00	-14.53	AV			
Vertical	10400.09	59.90	8.47	37.88	44.51	61.74	68.20	-6.46	Pk			
Vertical	15600.15	59.56	10.12	38.80	44.10	64.38	74.00	-9.62	Pk			
Vertical	15600.15	39.65	10.12	38.80	42.70	45.87	54.00	-8.13	AV			
Horizontal	4202.14	59.47	6.48	36.37	44.05	58.27	74.00	-15.73	Pk			
Horizontal	4202.14	40.31	6.48	36.37	44.05	39.11	54.00	-14.89	AV			
Horizontal	10400.14	60.44	8.47	38.64	44.50	63.05	68.20	-5.15	Pk			
Horizontal	15600.51	60.71	10.12	38.38	44.10	65.11	74.00	-8.89	Pk			
Horizontal	15600.51	39.04	10.12	38.38	44.10	43.44	54.00	-10.56	AV			





Report No.: S23120703101004

	High Channel (5240 MHz)-Above 1G											
Vertical	4597.70	60.37	7.10	37.24	43.50	61.21	74.00	-12.79	Pk			
Vertical	4597.70	40.29	7.10	37.24	43.50	41.13	54.00	-12.87	AV			
Vertical	10480.23	60.47	8.46	37.68	44.50	62.11	68.20	-6.09	Pk			
Vertical	15720.15	60.57	10.12	38.80	44.10	65.39	74.00	-8.61	Pk			
Vertical	15720.15	39.22	10.12	38.80	42.70	45.44	54.00	-8.56	AV			
Horizontal	4589.26	60.60	7.10	37.24	43.50	61.44	74.00	-12.56	Pk			
Horizontal	4589.26	40.70	7.10	37.24	43.50	41.54	54.00	-12.46	AV			
Horizontal	10480.59	59.57	8.46	38.57	44.50	62.10	68.20	-6.10	Pk			
Horizontal	15720.18	59.48	10.12	38.38	44.10	63.88	74.00	-10.12	Pk			
Horizontal	15720.18	40.36	10.12	38.38	44.10	44.76	54.00	-9.24	AV			

Note:"802.11a" mode is the worst mode.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.





Report No.: S23120703101004

EUT :	InkPad Eo	Model Name. :	PB1042			
Temperature :	20 ℃	Relative Humidity :	48%			
Pressure :	1010 hPa	Test Voltage :	DC 3.7V			
Test Mode :	TX (5.8G) 802.11a_5745~5825MHz					

Polar	Frequency	Meter	Cable	Antenna	Preamp	Emission	Limits	Margin	Detector			
Foldi	riequency	Reading	loss	Factor	Factor	Level	Linits	warym	Туре			
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)				
	Low Channel (5745 MHz)-Above 1G											
Vertical 5122.51 59.23 5.94 35.40 44.00 56.57 74.00 -17.43 Pk												
Vertical	5122.51	40.82	5.94	35.40	44.00	38.16	54.00	-15.84	AV			
Vertical	11490.60	59.90	8.46	39.75	44.50	63.61	74.00	-10.39	Pk			
Vertical	11490.60	39.18	8.46	39.75	44.50	42.89	54.00	-11.11	AV			
Vertical	17235.65	39.24	10.12	38.80	44.10	44.06	68.20	-24.14	Pk			
Horizontal	5166.60	60.99	5.94	35.18	44.00	58.11	68.20	-10.09	Pk			
Horizontal	11490.47	50.17	8.46	38.71	44.50	52.84	74.00	-21.16	Pk			
Horizontal	11490.47	39.25	8.46	38.71	44.50	41.92	54.00	-12.08	AV			
Horizontal	17235.47	55.15	10.12	38.38	44.10	59.55	68.20	-8.65	Pk			
			middle (Channel (578	35 MHz)-Ab	ove 1G						
Vertical	5433.40	59.79	6.48	36.35	44.05	58.57	74.00	-15.43	Pk			
Vertical	5433.40	40.57	6.48	36.35	44.05	39.35	54.00	-14.65	AV			
Vertical	11570.41	59.51	8.47	37.88	44.51	61.35	74.00	-12.65	Pk			
Vertical	11570.41	39.85	8.47	37.88	44.51	41.69	54.00	-12.31	AV			
Vertical	17355.84	40.42	10.12	38.80	44.10	45.24	68.20	-22.96	Pk			
Horizontal	4866.60	59.95	6.48	36.37	44.05	58.75	74.00	-15.25	Pk			
Horizontal	4866.60	40.74	6.48	36.37	44.05	39.54	54.00	-14.46	AV			
Horizontal	11570.28	60.65	8.47	38.64	44.50	63.26	74.00	-10.74	Pk			
Horizontal	11570.28	40.41	8.47	38.64	44.50	43.02	54.00	-10.98	AV			
Horizontal	17355.49	50.81	10.12	38.38	44.10	55.21	68.20	-12.99	Pk			





	High Channel (5825 MHz)-Above 1G										
Vertical	5244.48	60.51	7.10	37.24	43.50	61.35	68.20	-6.85	Pk		
Vertical	11652.42	59.71	8.46	37.68	44.50	61.35	74.00	-12.65	Pk		
Vertical	11652.42	40.89	8.46	37.68	44.50	42.53	54.00	-11.47	AV		
Vertical	17473.74	49.65	10.12	38.80	44.10	54.47	68.20	-13.73	Pk		
Horizontal	5285.29	59.56	7.10	37.24	43.50	60.40	68.20	-7.80	Pk		
Horizontal	11652.67	60.58	8.46	38.57	44.50	63.11	74.00	-10.89	Pk		
Horizontal	11652.67	39.24	8.46	38.57	44.50	41.77	54.00	-12.23	AV		
Horizontal	17474.68	49.75	10.12	38.38	44.10	54.15	68.20	-14.05	Pk		

Note:"802.11a" mode is the worst mode.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

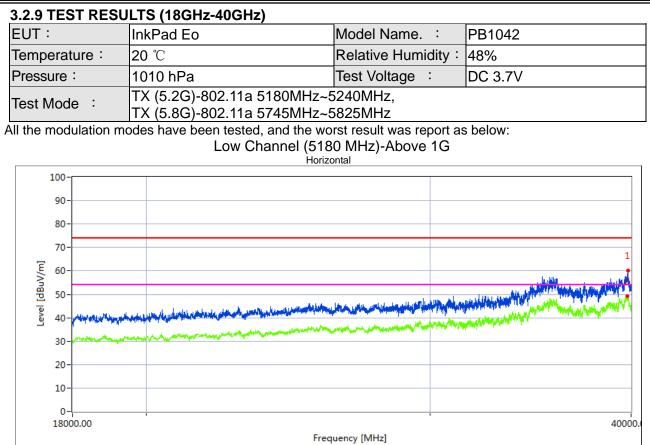
has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

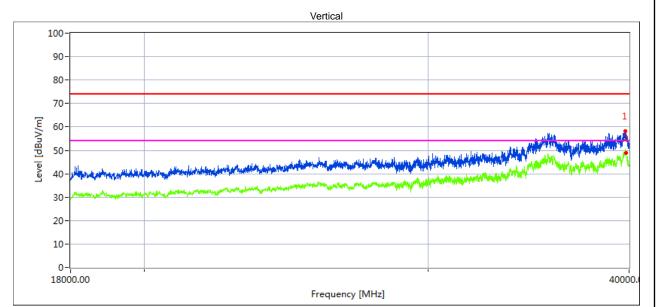
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Measurement Result:

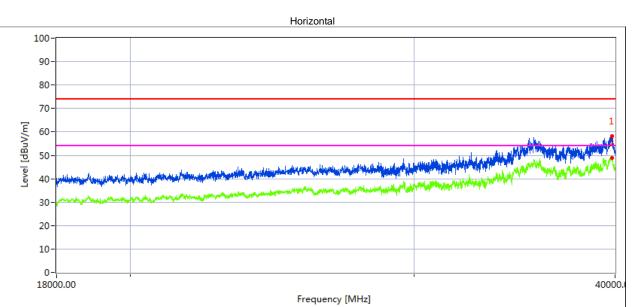
Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39769.27	41.12	20.09	44.07	43.48	61.80	68.2	6.40	Peak
39767.19	28.97	20.09	44.04	43.48	49.62	54	4.38	AVG



Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39769.546	43.63	20.09	44.07	43.48	64.31	68.2	3.89	Peak
39769.365	28.72	20.09	44.04	43.48	49.37	54	4.63	AVG

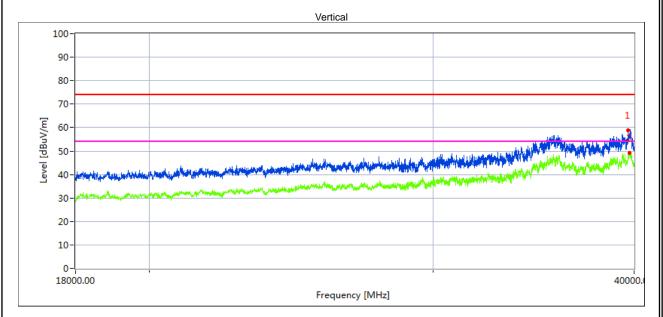


High Channel (5240 MHz)-Above 1G



Measurement Result:

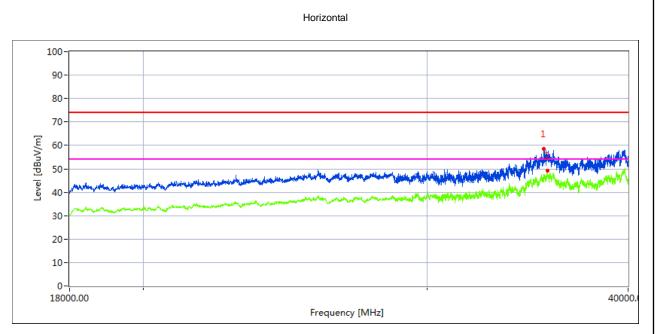
Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
35628.37	44.90	19.11	42.73	44.61	62.13	68.2	6.07	Peak
35596.986	30.56	19.11	42.73	44.61	47.79	54	6.21	AVG



Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39769.476	43.18	20.09	44.07	43.48	63.86	68.2	4.34	Peak
39769.476	28.88	20.09	44.04	43.48	49.53	54	4.47	AVG

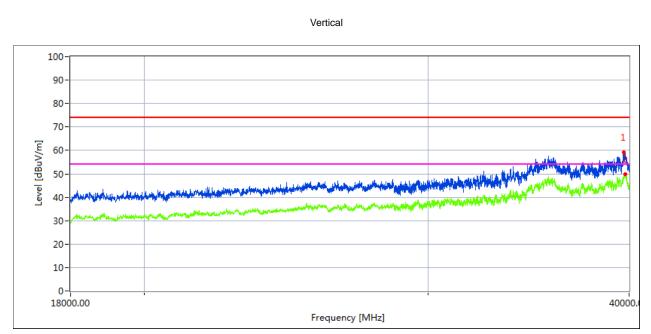


Low Channel (5745 MHz)-Above 1G



Measurement Result:

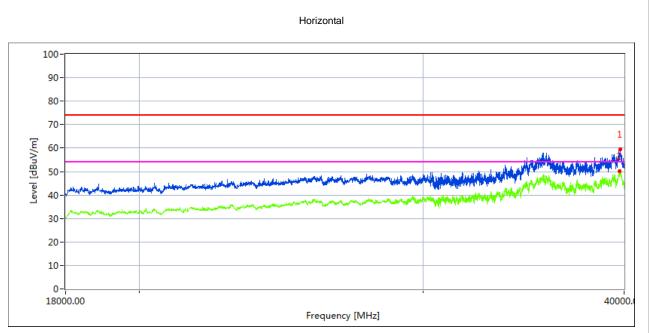
Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39670.224	40.93	20.09	44.16	43.48	61.70	68.2	6.50	Peak
39670.224	28.01	20.09	44.16	43.48	48.78	54	5.22	AVG



Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39731.342	43.18	20.06	44.07	43.21	64.10	68.2	4.10	Peak
39731.342	28.65	20.06	44.07	43.21	49.57	54	4.43	AVG

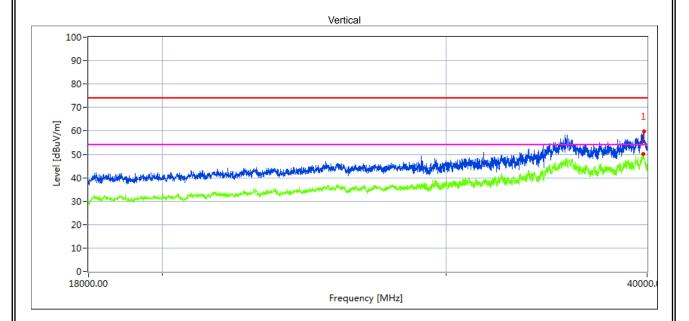


High Channel (5825 MHz)-Above 1G



Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
35628.534	43.21	19.11	42.63	43.48	61.47	68.2	6.73	Peak
35636.158	28.47	19.12	42.63	43.48	46.74	54	7.26	AVG



Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39821.763	43.08	20.1	44.1	43.22	64.06	68.2	4.14	Peak
39821.763	28.37	20.1	44.1	43.22	49.35	54	4.65	AVG





3.2.10 Spurious Emission in Restricted Band 4.5GHz~5.150 GHz& 5.350GHz~5460GHz

EUT :	InkPad Eo	Model Name. :	PB1042				
Temperature :	20 ℃	Relative Humidity :	48%				
Pressure :	1010 hPa	Test Voltage :	DC 3.7V				
Test Mode :	TX (5.2G)-802.11a 5150MHz~5250MHz,						

All the modulation modes have been tested, The report just record the worst data mode.

Frequen	Meter	Cable	Antenna	Preamp	Emission	Limits	Margin	Detec			
су	Reading	Loss	Factor	Factor	Level	Linits	Margin	tor	Comment		
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре			
	5.2G WIFI-802.11a Mode										
4500	63.69	5.2	35.6	44.2	60.29	74	-13.71	Pk	Horizontal		
4500	36.43	5.2	35.6	44.2	33.03	54	-20.97	AV	Horizontal		
4500	63.16	5.2	35.6	44.2	59.76	74	-14.24	Pk	Vertical		
4500	32.52	5.2	35.6	44.2	29.12	54	-24.88	AV	Vertical		
5150	62.88	5.36	35.66	44.22	59.68	74	-14.32	Pk	Horizontal		
5150	32.99	5.36	35.66	44.22	29.79	54	-24.21	AV	Horizontal		
5150	62.49	5.36	35.66	44.22	59.29	74	-14.71	Pk	Vertical		
5150	42.92	5.36	35.66	44.22	39.72	54	-14.28	AV	Vertical		
5350	63.65	5.68	35.68	44.22	60.79	74	-13.21	Pk	Horizontal		
5350	33.36	5.68	35.68	44.22	30.50	54	-23.50	AV	Horizontal		
5350	62.76	5.68	35.68	44.22	59.90	74	-14.10	Pk	Vertical		
5350	38.49	5.68	35.68	44.22	35.63	54	-18.37	AV	Vertical		

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) "802.11a " mode is the worst mode. When PK value is lower than the Average value limit, average don't

ecord.





3.3 POWER SPECTRAL DENSITY TEST

3.3.1 Applied procedures / limit

According to FCC §15.407(a)(3)

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3)For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.





3.3.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW \geq 1/T, where T is defined in section II.B.I.a).

- b) Set VBW \geq 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add

10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add
 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

3.3.3 DEVIATION FROM STANDARD

No deviation.

3.3.4 TEST SETUP



3.3.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.





3.3.6 TEST RESULTS

EUT :	InkPad Eo	Model Name. :	PB1042					
Temperature :	25 ℃	Relative Humidity :	56%					
Pressure :	1015 hPa	Test Voltage :	DC 3.7V					
Test Mode :	TX Frequency Band I (5150-52	X Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)						

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3.4 26DB & 99% EMISSION BANDWIDTH

3.4.1 Applied procedures / limit

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

3.4.2 TEST PROCEDURE

a) Set RBW = approximately 1% of the emission bandwidth.

b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

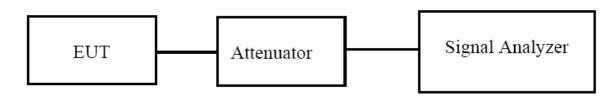
The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set VBW \ge 3 \cdot RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

6. Use the 99 % power bandwidth function of the instrument (if available).

7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.







3.4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.4.4 TEST RESULTS

EUT :	InkPad Eo	Model Name. :	PB1042
Temperature :	25 ℃	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Frequency Band I (5150-52	50MHz), Band IV (57	725-5850MHz)





β.5 MINIMUM 6 DB BANDWIDTH

3.5.1 Applied procedures / limit

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.5.2 TEST PROCEDURE

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

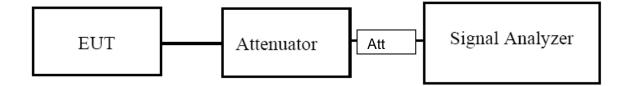
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 × RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.5.3 DEVIATION FROM STANDARD

No deviation.

3.5.4 TEST SETUP



3.5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.





3.5.6 TEST RESULTS

EUT :	InkPad Eo	Model Name. :	PB1042			
Temperature :	25 ℃	Relative Humidity :	60%			
Pressure :	1012 hPa	Test Voltage :	DC 3.7V			
Test Mode :	TX (5G) Mode Frequency Band IV (5725-5850MHz)					





β.6 MAXIMUM CONDUCTED OUTPUT POWER

3.6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conduced output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725~5850	1W

3.6.2 TEST PROCEDURE

• Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).



a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:

• The EUT transmits continuously (or with a duty cycle ≥ 98 percent).

• Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.

(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.

b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

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(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

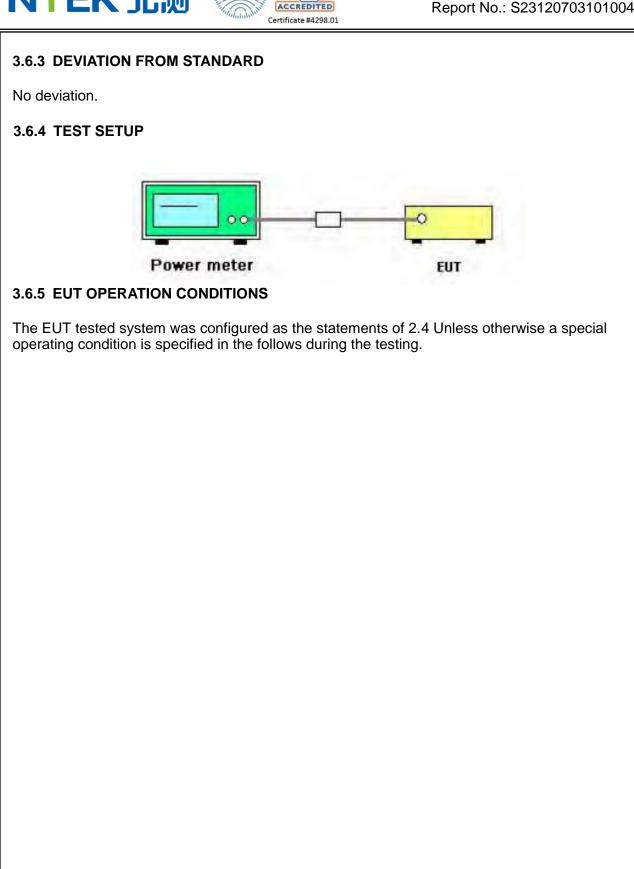
(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum









3.6.6 TEST RESULTS

EUT :	InkPad Eo	Model Name. :	PB1042				
Temperature :	25 ℃	Relative Humidity :	60%				
Pressure :	1012 hPa	Test Voltage :	DC 3.7V				
Test Mode :	TX (5G) Mode Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)						

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3.7 OUT OF BAND EMISSIONS

3.7.1 Applicable Standard

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at 5 MHz above or below the band edge.

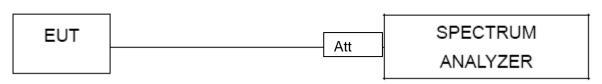
3.7.2 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

3.7.3 DEVIATION FROM STANDARD

No deviation.

3.7.4 TEST SETUP



3.7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.





3.7.6 TEST RESULTS

EUT :	InkPad Eo	Model Name. :	PB1042
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V





3.8 SPURIOUS RF CONDUCTED EMISSIONS

3.8.1Conformance Limit

According to FCC §15.407(b)(1) (2) (3) (4)

3.8.2Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

3.8.3Test Setup

Please refer to Section 6.1 of this test report.

3.8.4Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=1MHz and VBW= 3MHz to measure the peak field strength , and measure frequency range from 30MHz to 40GHz.

3.8.5Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.





3.9 FREQUENCY STABILITY MEASUREMENT

β.9.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

β.9.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.

2. EUT have transmitted absence of modulation signal and fixed channelize.

3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.

4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.

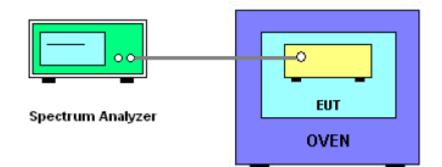
5. fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10_6 \text{ ppm}$.

6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the

nominal value

7. Extreme temperature is -20°C~70°C.

β.9.3 TEST SETUP LAYOUT



3.9.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously un-modulation transmitting mode.





3.9.5 TEST RESULTS EUT : InkPad Eo Model Name. : PB1042 Temperature : 25 °C Relative Humidity : 56% Pressure : 1012 hPa Test Voltage : DC 3.7V Test Mode : TX Frequency Band I (5150-5250MHz)

Voltage vs. Frequency Stability

				Reference Frequency: 5180MHz			
	TES	T CONDITIONS	3			Max.	Max.
					fc	Deviation	Deviation
						(MHz)	(ppm)
T nom		V nom (V)	3.70	5180.0063	5180	0.0063	-1.2246
(°C)	20	V max (V)	4.20	5180.0098	5180	0.0098	-1.8883
(0)		V min (V)	3.40	5180.0032	5180	0.0032	-0.6180
	Limits				Within 5150-5250MHz		
	Result			Complies			

				Reference Frequency: 5180MHz			
- -		NDITIONS				Max.	Max.
1	ESICC	MDITIONS)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
		T (°C)	-20	5180.0080	5180	0.0080	-1.5498
		T (°C)	-10	5180.0054	5180	0.0054	-1.0338
	0.7	T (°C)	0	5180.0010	5180	0.0010	-0.1893
		T (°C)	10	5180.0078	5180	0.0078	-1.5036
		T (°C)	20	5180.0080	5180	0.0080	-1.5528
V nom (V)	3.7	T (°C)	30	5180.0021	5180	0.0021	-0.4090
		T (°C)	40	5180.0048	5180	0.0048	-0.9238
		T (°C)	50	5180.0027	5180	0.0027	-0.5137
		T (°C)	60	5180.0001	5180	0.0001	-0.0254
		T (°C)	70	5180.0001	5180	0.0001	-0.0105
	Limits			Within 5150-5250MHz			
	Result				Con	nplies	





				Reference Frequency: 5200MHz			
	TEQ		`			Max.	Max.
	TEST CONDITIONS				fc	Deviation	Deviation
						(MHz)	(ppm)
Trom	_	V nom (V)	3.70	5200.0084	5200	0.0084	-1.6110
T nom	20	V max (V)	4.20	5200.0015	5200	0.0015	-0.2834
(°C)		V min (V)	3.40	5200.0002	5200	0.0002	-0.0393
	Limits			Within 5150-5250MHz			
	Result				Con	nplies	

				Refere	nce Frequ	uency: 5200	OMHz
- -		NDITIONS				Max.	Max.
1	ESICC	MDITIONS)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
		T (°C)	-20	5200.0090	5200	0.0090	-1.7356
		T (°C)	-10	5200.0044	5200	0.0044	-0.8491
		T (°C)	0	5200.0095	5200	0.0095	-1.8252
	3.7	T (°C)	10	5200.0056	5200	0.0056	-1.0693
V nom (V)		T (°C)	20	5200.0043	5200	0.0043	-0.8248
V nom (V)		T (°C)	30	5200.0075	5200	0.0075	-1.4417
		T (°C)	40	5200.0040	5200	0.0040	-0.7672
		T (°C)	50	5200.0094	5200	0.0094	-1.8025
		T (°C)	60	5200.0028	5200	0.0028	-0.5473
		T (°C)	70	5200.0005	5200	0.0005	-0.1001
	Limits			V	Vithin 515	0-5250MHz	
	Result			Complies			





				Reference Frequency: 5240MHz			
	TEO		`			Max.	Max.
	TEST CONDITIONS				fc	Deviation	Deviation
						(MHz)	(ppm)
Taam		V nom (V)	3.70	5240.0010	5240	0.0010	-0.1909
T nom	20	V max (V)	4.20	5240.0045	5240	0.0045	-0.8577
(°C)		V min (V)	3.40	5240.0016	5240	0.0016	-0.3012
	Limits				Within 5150-5250MHz		
	Result			Complies			

				Reference Frequency: 5240MHz			
Т		NDITIONS	•			Max.	Max.
		MDITIONE)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
		T (°C)	-20	5240.0006	5240	0.0006	-0.1231
		T (°C)	-10	5240.0091	5240	0.0091	-1.7372
	0.7	T (°C)	0	5240.0047	5240	0.0047	-0.8876
		T (°C)	10	5240.0088	5240	0.0088	-1.6766
V nom (V/)		T (°C)	20	5240.0014	5240	0.0014	-0.2629
V nom (V)	3.7	T (°C)	30	5240.0017	5240	0.0017	-0.3194
		T (°C)	40	5240.0068	5240	0.0068	-1.2939
		T (°C)	50	5240.0069	5240	0.0069	-1.3212
		T (°C)	60	5240.0094	5240	0.0094	-1.7938
		T (°C)	70	5240.0013	5240	0.0013	-0.2556
	Limits			V	Vithin 515	0-5250MHz	
	Re	esult			Con	nplies	





EUT :	InkPad Eo	Model Name. :	PB1042
Temperature :	25 ℃	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Frequency(5745-5825MHz)		

				Reference Frequency: 5745MHz				
	TES	T CONDITIONS	2			Max.	Max.	
	IE3	T CONDITIONS)	f	fc	Deviation	Deviation	
						(MHz)	(ppm)	
Thom		V nom (V)	3.70	5745.0075	5745	0.00749	-1.3032	
	20	V max (V)	4.20	5745.0014	5745	0.00142	-0.2465	
(°C)		V min (V)	3.40	5745.0037	5745	0.00369	-0.6430	
		Limits		Within 5745-5850MHz				
		Result		Complies				

				Reference Frequency: 5745MHz				
- т			•			Max.	Max.	
'	TEST CONDITIONS				fc	Deviation	Deviation	
						(MHz)	(ppm)	
		T (°C)	-20	5745.0065	5745	0.00652	-1.1340	
		T (°C)	-10	5745.0042	5745	0.00424	-0.7376	
	3.7	T (°C)	0	5745.0051	5745	0.00511	-0.8889	
		T (°C)	10	5745.0026	5745	0.00257	-0.4478	
V nom (V)		T (°C)	20	5745.0008	5745	0.00080	-0.1387	
v 110111 (v)		T (°C)	30	5745.0010	5745	0.00098	-0.1714	
		T (°C)	40	5745.0096	5745	0.00964	-1.6784	
		T (°C)	50	5745.0035	5745	0.00352	-0.6129	
		T (°C)	60	5745.0033	5745	0.00333	-0.5794	
		T (°C)	70	5745.0008	5745	0.00082	-0.1430	
	Limits			Within 5745-5850MHz				
	Re	esult		Complies				





				Reference Frequency: 5785MHz				
	TEQ		`			Max.	Max.	
	TEST CONDITIONS				fc	Deviation	Deviation	
						(MHz)	(ppm)	
Thom		V nom (V)	3.70	5785.0086	5785	0.00861	-1.4880	
	20	V max (V)	4.20	5785.0028	5785	0.00285	-0.4926	
(°C)		V min (V)	3.40	5785.0069	5785	0.00690	-1.1923	
		Limits		Within 5745-5850MHz				
	Result				Complies			

				Reference Frequency: 5785MHz				
- -						Max.	Max.	
I	TEST CONDITIONS				fc	Deviation	Deviation	
						(MHz)	(ppm)	
		T (°C)	-20	5785.0006	5785	0.00063	-0.1081	
		T (°C)	-10	5785.0017	5785	0.00171	-0.2964	
	3.7	T (°C)	0	5785.0092	5785	0.00923	-1.5956	
		T (°C)	10	5785.0004	5785	0.00036	-0.0617	
		T (°C)	20	5785.0045	5785	0.00455	-0.7864	
V nom (V)		T (°C)	30	5785.0065	5785	0.00647	-1.1190	
		T (°C)	40	5785.0071	5785	0.00705	-1.2191	
		T (°C)	50	5785.0072	5785	0.00719	-1.2430	
		T (°C)	60	5785.0062	5785	0.00621	-1.0732	
		T (°C)	70	5785.0090	5785	0.00896	-1.5487	
	Limits			Within 5745-5850MHz				
	Result			Complies				





				Reference Frequency: 5825MHz			
	TEO		`			Max.	Max.
	TEST CONDITIONS				fc	Deviation	Deviation
						(MHz)	(ppm)
Taam		V nom (V)	3.70	5825.0054	5825	0.00536	-0.9195
T nom	20	V max (V)	4.20	5825.0047	5825	0.00466	-0.7994
(°C)		V min (V)	3.40	5825.0093	5825	0.00931	-1.5988
		Limits		Within 5745-5850MHz			
Result				Complies			

				Reference Frequency: 5825MHz				
- т		NDITIONS	•			Max.	Max.	
·		MDHIONE)	f	fc	Deviation	Deviation	
						(MHz)	(ppm)	
		T (°C)	-20	5825.0011	5825	0.00112	-0.1916	
		T (°C)	-10	5825.0074	5825	0.00737	-1.2647	
	3.7	T (°C)	0	5825.0068	5825	0.00675	-1.1592	
		T (°C)	10	5825.0041	5825	0.00414	-0.7100	
V nom (V)		T (°C)	20	5825.0002	5825	0.00025	-0.0423	
v nom (v)		T (°C)	30	5825.0065	5825	0.00651	-1.1184	
		T (°C)	40	5825.0031	5825	0.00313	-0.5376	
		T (°C)	50	5825.0060	5825	0.00600	-1.0300	
		T (°C)	60	5825.0054	5825	0.00535	-0.9187	
		T (°C)	70	5825.0011	5825	0.00112	-0.1924	
	Limits			Within 5745-5850MHz				
	Result			Complies				



4. ANTENNA REQUIREMENT

4.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

4.2 EUT ANTENNA

The EUT antenna is permanent attached FPC Antenna (antenna gain: 2.43dBi(5.2G); 2.73dBi(5.8G)). It comply with the standard requirement.

END OF REPORT