

FCC RADIO TEST REPORT

FCC ID:2AUVWPB700K3

Product : Era Color

Trade Mark : PocketBook

Model Name : PB700K3

Family Model : N/A

Report No. : S24022207208004

Prepared for

Pocketbook International SA.

Crocicchio Cortogna 6, 6900, Lugano, Switzerland

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Pocketbook International SA.
Address : Crocicchio Cortogna 6, 6900, Lugano, Switzerland
Manufacturer's Name : Pocketbook International SA.
Address : Crocicchio Cortogna 6, 6900, Lugano, Switzerland

Product description

Product name : Era Color
Model and/or type reference : PB700K3
Family Model : N/A
Sample number : S240222072008

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.

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Date of Test

Date (s) of performance of tests : Feb 23. 2024 ~ Mar 11. 2024

Date of Issue : Mar 12. 2024

Test Result : Pass

Prepared By : Allen Liu (Project Engineer)

Reviewed By : Aaron Cheng (Supervisor)

Approved By : Alex Li (Manager)

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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)	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

(2) 11ax supports FULL RU Only.

1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District, Shenzhen, Guangdong, China.

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

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/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District, Shenzhen, Guangdong, China.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	± 2.80 dB
2	RF power, conducted	± 0.16 dB
3	Spurious emissions, conducted	± 0.21 dB
4	All emissions, radiated(30MHz~1GHz)	± 2.64 dB
5	All emissions, radiated(1GHz~6GHz)	± 2.40 dB
6	All emissions, radiated(> 6GHz)	± 2.52 dB
7	Temperature	± 0.5 °C
8	Humidity	± 2 %
9	All emissions, radiated(9KHz~30MHz)	± 6 dB
10	Occupied bandwidth	± 3.7 dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Era Color	
Trade Mark	PocketBook	
Model Name	PB700K3	
Family Model	N/A	
Model Difference	N/A	
FCC ID	2AUVWPB700K3	
Product Description	IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11a/n/ac/ax (20MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n/ac/ax (40MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac/ax (80MHz channel bandwidth)
	Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac/ax(VHT20):MCS0-MCS8; 802.11ac/ax(VHT40/VHT80):MCS0-MCS9;
	Modulation	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac; OFDMA with BPSK/QPSK/16QAM/64QAM/256QAM /1024QAM for 802.11ax;
	Operating Frequency Range	<input checked="" type="checkbox"/> 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20)/ax20; <input checked="" type="checkbox"/> 5190-5230MHz for 802.11n(HT40)/ac(VHT40)/ax40; <input checked="" type="checkbox"/> 5210MHz for 802.11ac(VHT80)/ax80 <input checked="" type="checkbox"/> 5745-5825 MHz for 802.11a/n(HT20)/ac(VHT20)/ax20; <input checked="" type="checkbox"/> 5755-5795 MHz for 802.11n(HT40)/ac(VHT40)/ax40; <input checked="" type="checkbox"/> 5775MHz for 802.11ac(VHT80)/ax80
	Number of Channels	<input checked="" type="checkbox"/> 4 channels for 802.11a/n20/ac20/ax20 in the 5180-5240MHz band ; <input checked="" type="checkbox"/> 2 channels for 802.11 n40/ac40/ax40 in the 5190-5230MHz band ; <input checked="" type="checkbox"/> 1 channels for 802.11 ac80/ax80 in the 5210MHz band ; <input checked="" type="checkbox"/> 5 channels for 802.11a/n20/ac20/ax20 in the 5745-5825MHz band ; <input checked="" type="checkbox"/> 2 channels for 802.11 n40/ac40/ax40 in the 5755-5795MHz band ; <input checked="" type="checkbox"/> 1 channels for 802.11 ac80/ax80 in the 5775MHz band ;
	Antenna Type	FPC antenna
	Antenna Gain	3.08dBi
	Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.	
	Adapter	N/A
	Battery	DC 3.8V, 2500mAh
Power supply	DC 3.8V from Battery or DC 5V from USB Port	
Connecting I/O Port(s)	Please refer to the User's Manual	
Hardware version:	v. 1.0	
Firmware version:	U700k3.6.8.xxx	

Note:

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/ax(20MHz) band I (5180-5240MHz):

802.11a/n/ac(20MHz)/ax20 Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

Frequency and Channel list for 802.11n/ac(40MHz)/ax40 band I (5190-5230MHz):

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

Frequency and Channel list for 802.11ac(80MHz)/ax80 band I (5210MHz):

802.11ac/ax(80MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	-	-	-	-	-	-

Frequency and Channel list for 802.11a/n/ac(20 MHz)/ax20 band IV (5745-5825MHz):

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

Frequency and Channel list for 802.11n/ac(40MHz)/ax40 band IV (5755-5795MHz):

802.11n/ac/ax(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)/ax80 band IV (5775MHz):

802.11ac/ax(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/ax20 CH36/ CH40/ CH 48 802.11a / n 20 / ac 20/ax20 CH149/ CH157/ CH 165
Mode 3	802.11n40 / ac40/ax40 CH38/ CH 46 802.11n 40 / ac 40/ax40 CH 151 / CH 159
Mode 4	802.11ac80/ax80 CH 42 802.11ac 80/ax80 CH 155

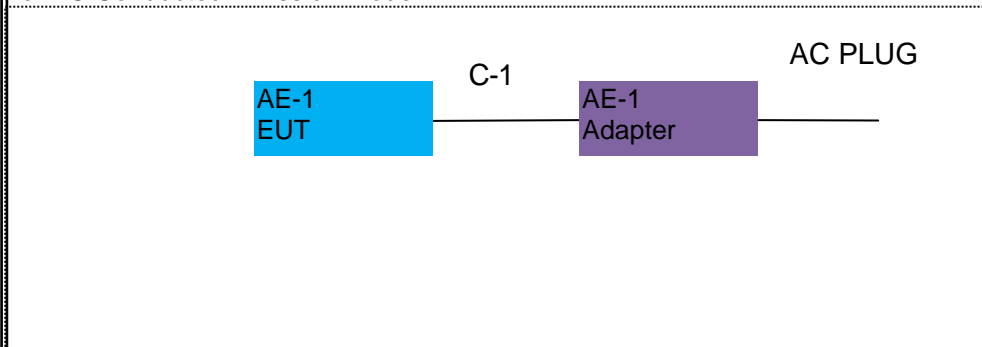
For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n 20 / ac 20/ax20 CH36/ CH40/ CH 48 802.11a / n 20 / ac 20/ax20 CH149/ CH157/ CH 165
Mode 3	802.11n40 / ac40/ax40 CH38/ CH 46 802.11n 40 / ac 40/ax40 CH 151 / CH 159
Mode 4	802.11ac80/ax80 CH 42 802.11ac 80/ax80 CH 155

Note:

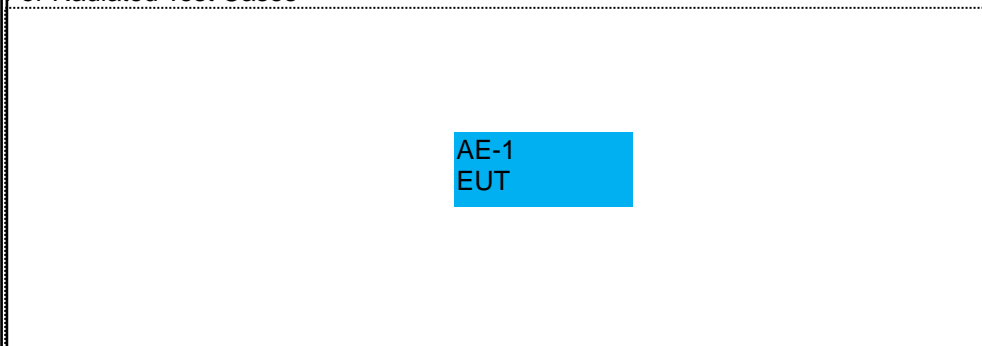
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

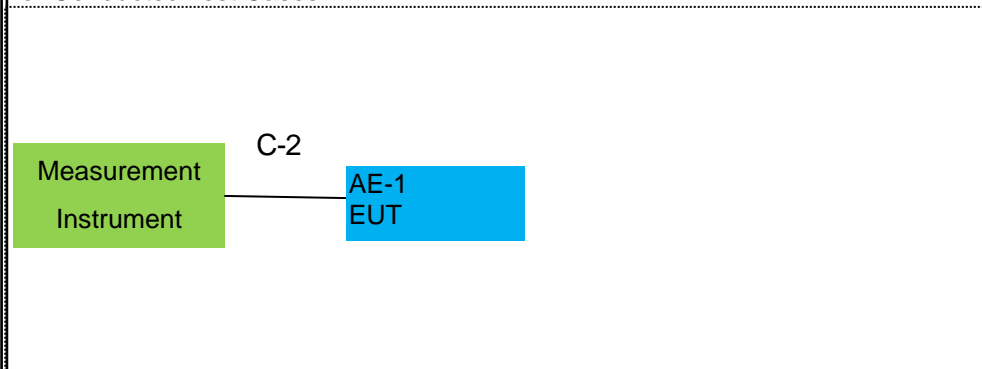
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note:1.The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

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
AE-1	Era Color	PB700K3	N/A	EUT
AE-2	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.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	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-10180	2011071402	2023.03.27	2024.03.26	1 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2023.05.29	2024.05.28	1 year
9	Amplifier	EMC	EMC051835SE	980246	2023.05.29	2024.05.28	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2023.05.29	2024.05.28	1 year
11	Power Meter	DARE	RPR3006W	15100041SN084	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-40GHz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2023.05.29	2024.05.28	1 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

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

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	SCHWARZBECK	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-30MHz)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	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

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 APPLICABLE STANDARD

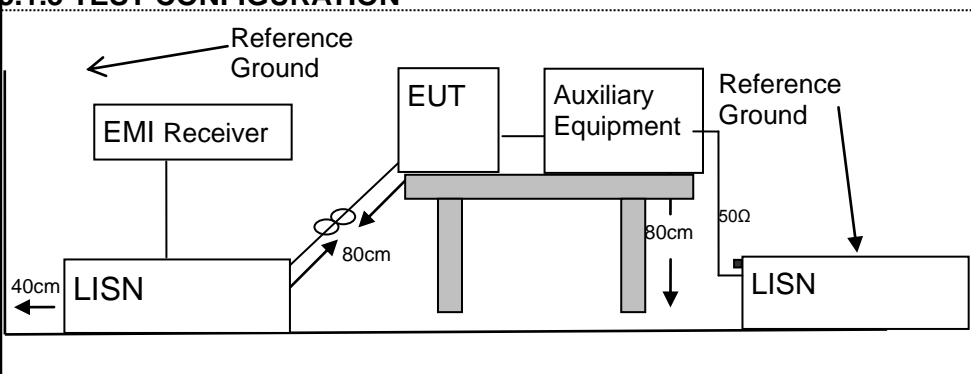
According to FCC Part 15.207(a)

3.1.2 CONFORMANCE LIMIT

Frequency(MHz)	Conducted Emission Limit	
	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.
5. 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.

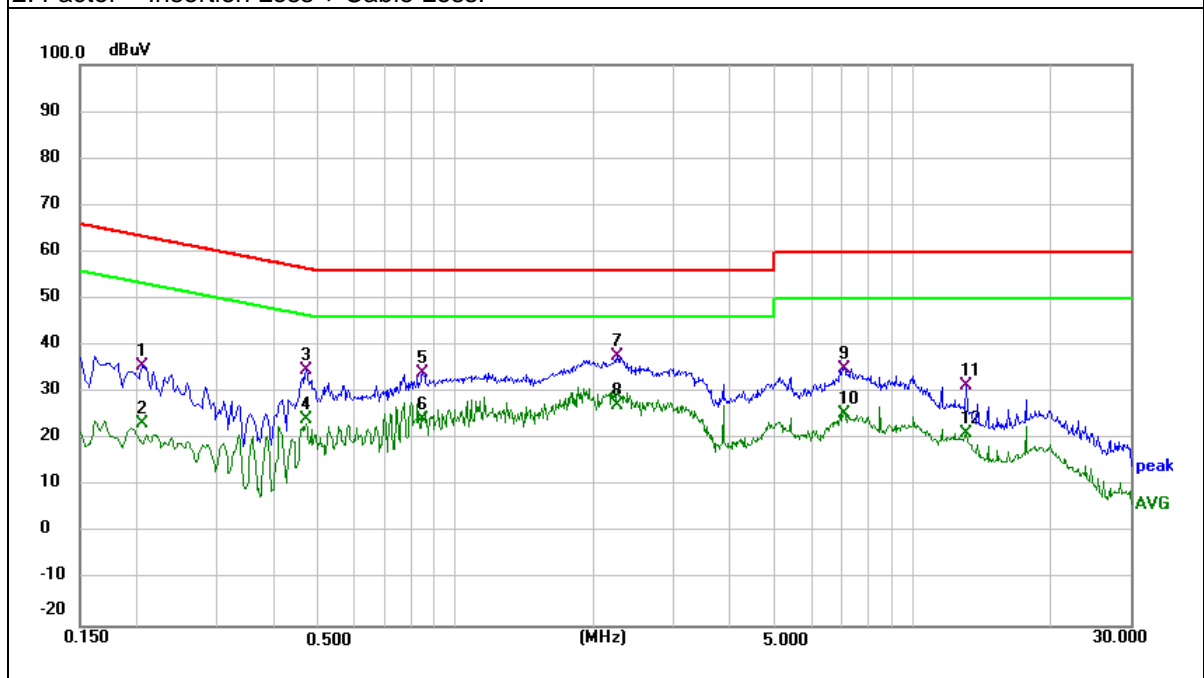
3.1.5 TEST RESULTS

EUT :	Era Color	Model Name :	PB700K3
Temperature :	22°C	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2060	25.73	10.06	35.79	63.37	-27.58	QP
0.2060	13.29	10.06	23.35	53.37	-30.02	AVG
0.4700	24.12	10.59	34.71	56.51	-21.80	QP
0.4700	13.56	10.59	24.15	46.51	-22.36	AVG
0.8460	22.85	11.36	34.21	56.00	-21.79	QP
0.8460	13.00	11.36	24.36	46.00	-21.64	AVG
2.2540	28.02	9.66	37.68	56.00	-18.32	QP
2.2540	17.56	9.66	27.22	46.00	-18.78	AVG
7.0740	25.36	9.68	35.04	60.00	-24.96	QP
7.0740	15.65	9.68	25.33	50.00	-24.67	AVG
13.0740	21.70	9.70	31.40	60.00	-28.60	QP
13.0740	11.55	9.70	21.25	50.00	-28.75	AVG

Remark:

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

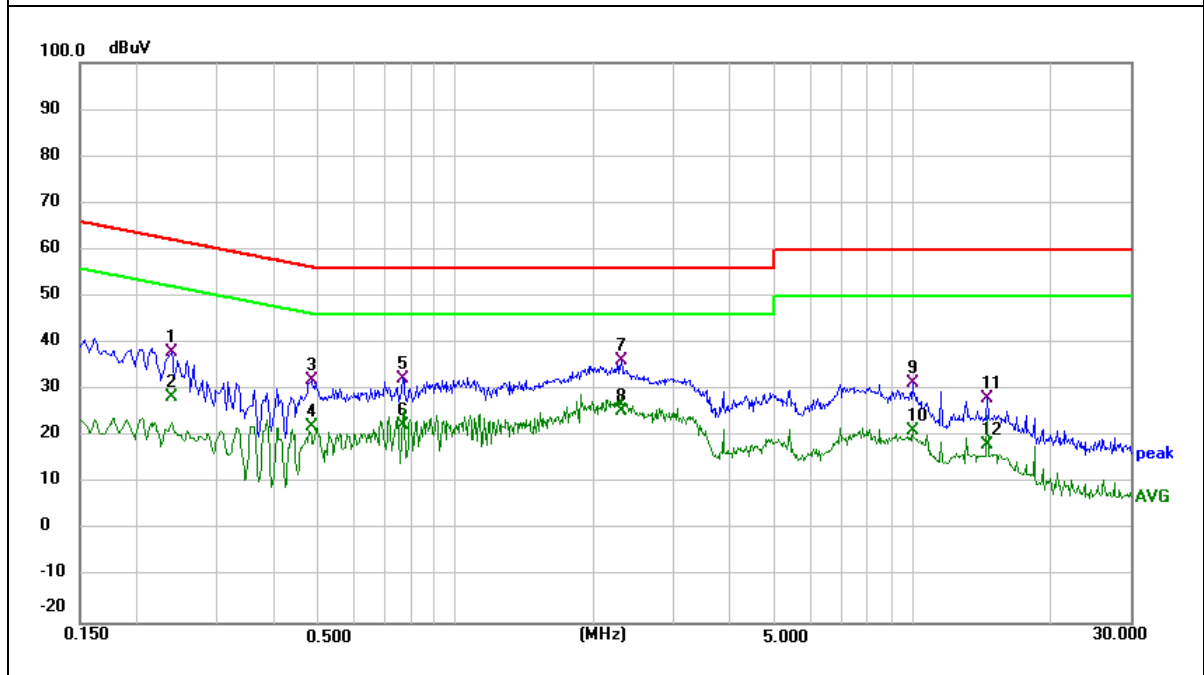


EUT :	Era Color	Model Name :	PB700K3
Temperature :	22°C	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2380	28.05	10.12	38.17	62.17	-24.00	QP
0.2380	18.21	10.12	28.33	52.17	-23.84	AVG
0.4820	21.44	10.61	32.05	56.30	-24.25	QP
0.4820	11.54	10.61	22.15	46.30	-24.15	AVG
0.7660	21.30	11.20	32.50	56.00	-23.50	QP
0.7660	11.16	11.20	22.36	46.00	-23.64	AVG
2.3060	26.68	9.66	36.34	56.00	-19.66	QP
2.3060	15.94	9.66	25.60	46.00	-20.40	AVG
9.9860	21.72	9.69	31.41	60.00	-28.59	QP
9.9860	11.56	9.69	21.25	50.00	-28.75	AVG
14.5820	18.60	9.70	28.30	60.00	-31.70	QP
14.5820	8.63	9.70	18.33	50.00	-31.67	AVG

Remark:

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

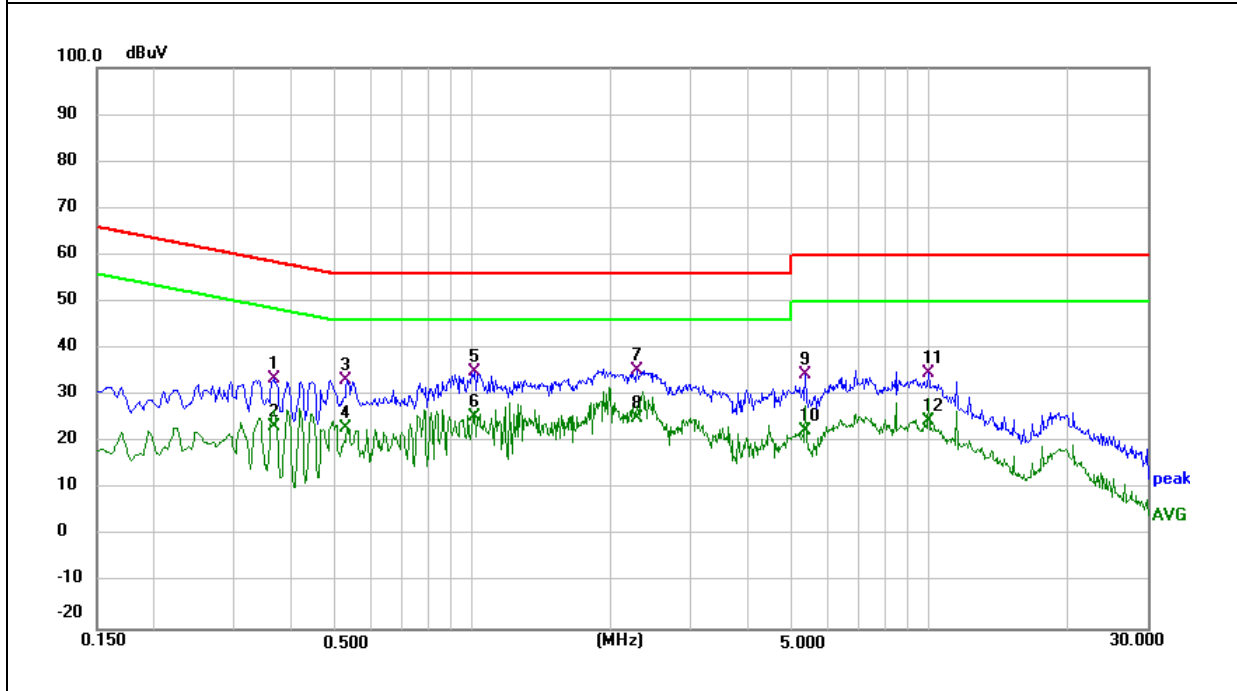


EUT :	Era Color	Model Name :	PB700K3
Temperature :	22 °C	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.3672	23.11	10.38	33.49	58.56	-25.07	QP
0.3672	12.84	10.38	23.22	48.56	-25.34	AVG
0.5299	22.61	10.71	33.32	56.00	-22.68	QP
0.5299	12.44	10.71	23.15	46.00	-22.85	AVG
1.0060	23.49	11.68	35.17	56.00	-20.83	QP
1.0060	13.64	11.68	25.32	46.00	-20.68	AVG
2.2940	25.77	9.66	35.43	56.00	-20.57	QP
2.2940	15.49	9.66	25.15	46.00	-20.85	AVG
5.3500	24.91	9.67	34.58	60.00	-25.42	QP
5.3500	12.66	9.67	22.33	50.00	-27.67	AVG
9.9340	25.09	9.69	34.78	60.00	-25.22	QP
9.9340	14.85	9.69	24.54	50.00	-25.46	AVG

Remark:

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

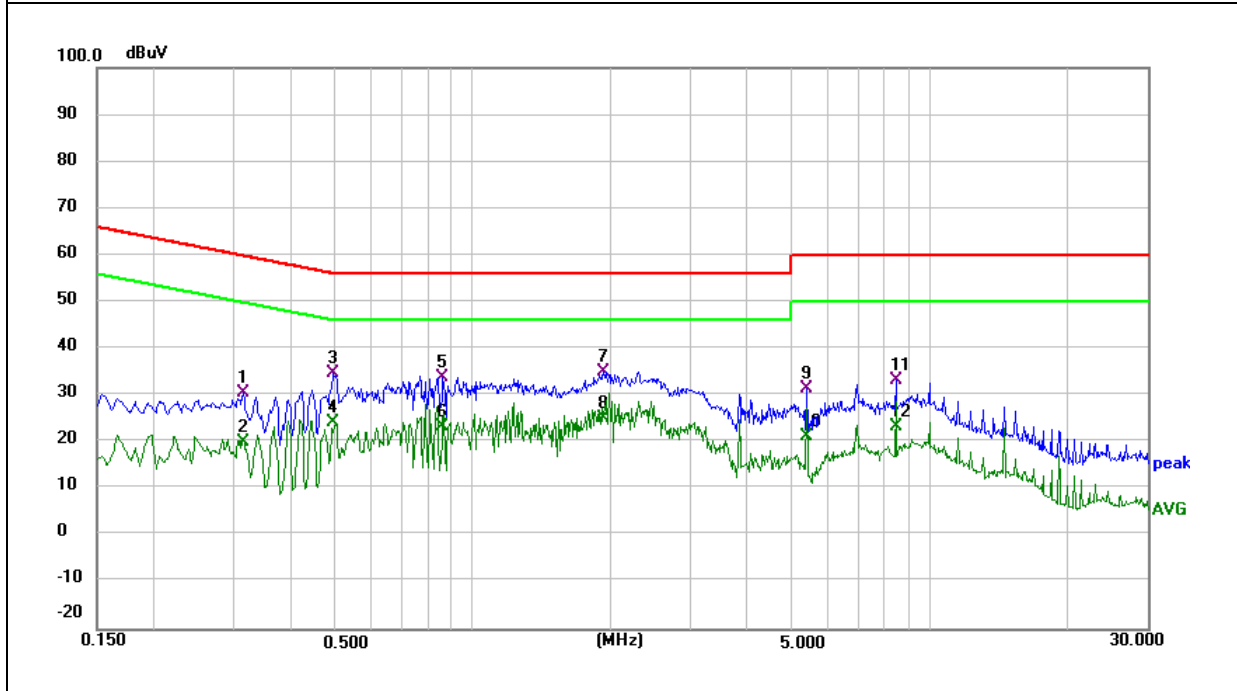


EUT :	Era Color	Model Name :	PB700K3
Temperature :	22 °C	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.3140	20.20	10.26	30.46	59.86	-29.40	QP
0.3140	9.89	10.26	20.15	49.86	-29.71	AVG
0.4940	24.02	10.63	34.65	56.10	-21.45	QP
0.4940	13.70	10.63	24.33	46.10	-21.77	AVG
0.8580	22.58	11.38	33.96	56.00	-22.04	QP
0.8580	11.98	11.38	23.36	46.00	-22.64	AVG
1.9380	21.52	13.54	35.06	56.00	-20.94	QP
1.9380	11.61	13.54	25.15	46.00	-20.85	AVG
5.3780	21.67	9.67	31.34	60.00	-28.66	QP
5.3780	11.65	9.67	21.32	50.00	-28.68	AVG
8.4420	23.56	9.68	33.24	60.00	-26.76	QP
8.4420	13.64	9.68	23.32	50.00	-26.68	AVG

Remark:

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



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 Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

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 ($\mu\text{V}/\text{m}$)	Field Strength ($\text{dB}\mu\text{V}/\text{m}$)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log ($\mu\text{V}/\text{m}$)	300
0.490-1.705	24000/F(KHz)	20 log ($\mu\text{V}/\text{m}$)	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 ($\text{dB}\mu\text{V}/\text{m}$) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark : 1. Emission level in $\text{dB}\mu\text{V}/\text{m}=20 \log (\mu\text{V}/\text{m})$

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

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor = $40 \log (\text{Specific distance}/ \text{test distance})(\text{dB})$;

Limit line=Specific limits($\text{dB}\mu\text{V}$) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor = $20 \log (\text{Specific distance}/ \text{test distance})(\text{dB})$;

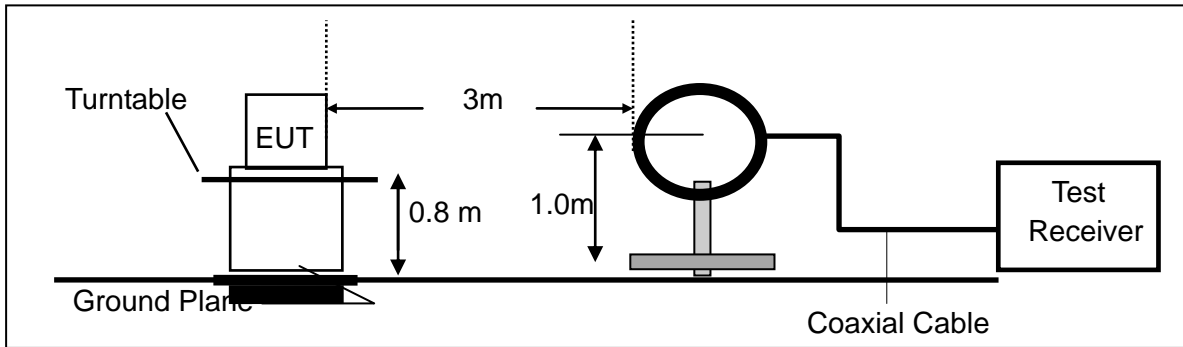
Limit line=Specific limits($\text{dB}\mu\text{V}$) + distance extrapolation factor.

3.2.3 MEASURING INSTRUMENTS

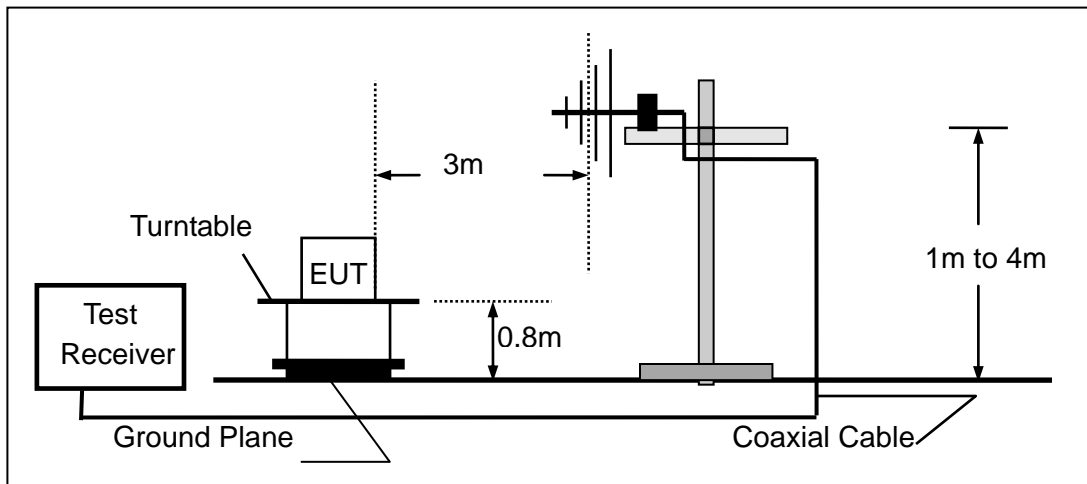
The Measuring equipment is listed in the section 6.3 of this test report.

3.2.4 TEST CONFIGURATION

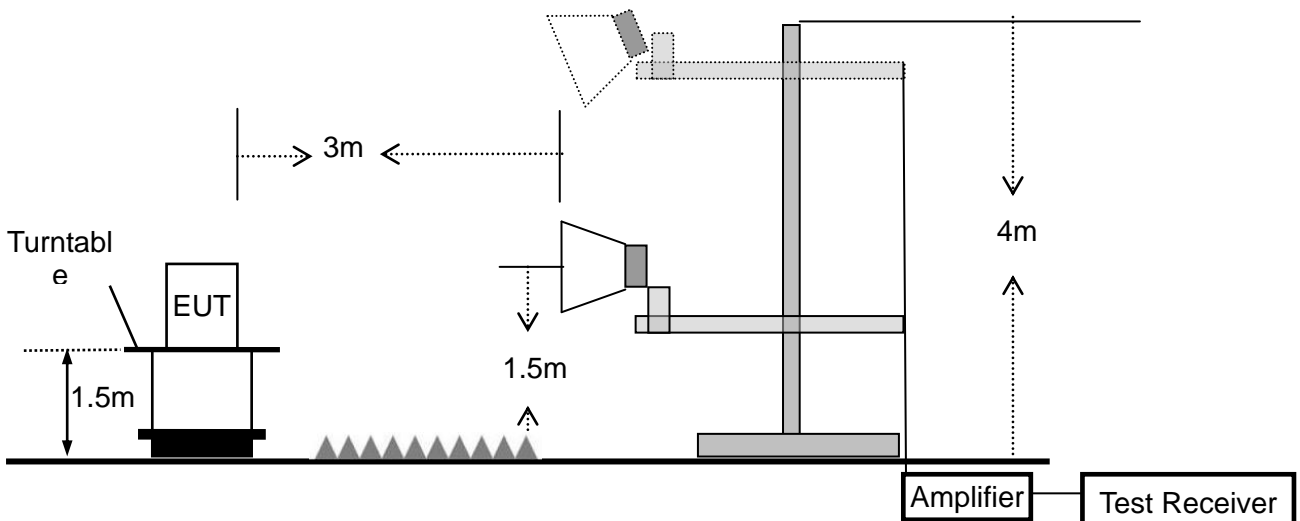
(a) For radiated emissions below 30MHz



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



(c) For radiated emissions above 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

- 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.
- 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.
- 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.
- 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.
- 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.
- 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
Above 1000	Peak	1 MHz	1 MHz
	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 $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , 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.

3.2.6 TEST RESULTS (9KHz – 30 MHz)

EUT:	Era Color	Model Name. :	PB700K3
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX	Polarization :	--

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State 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.

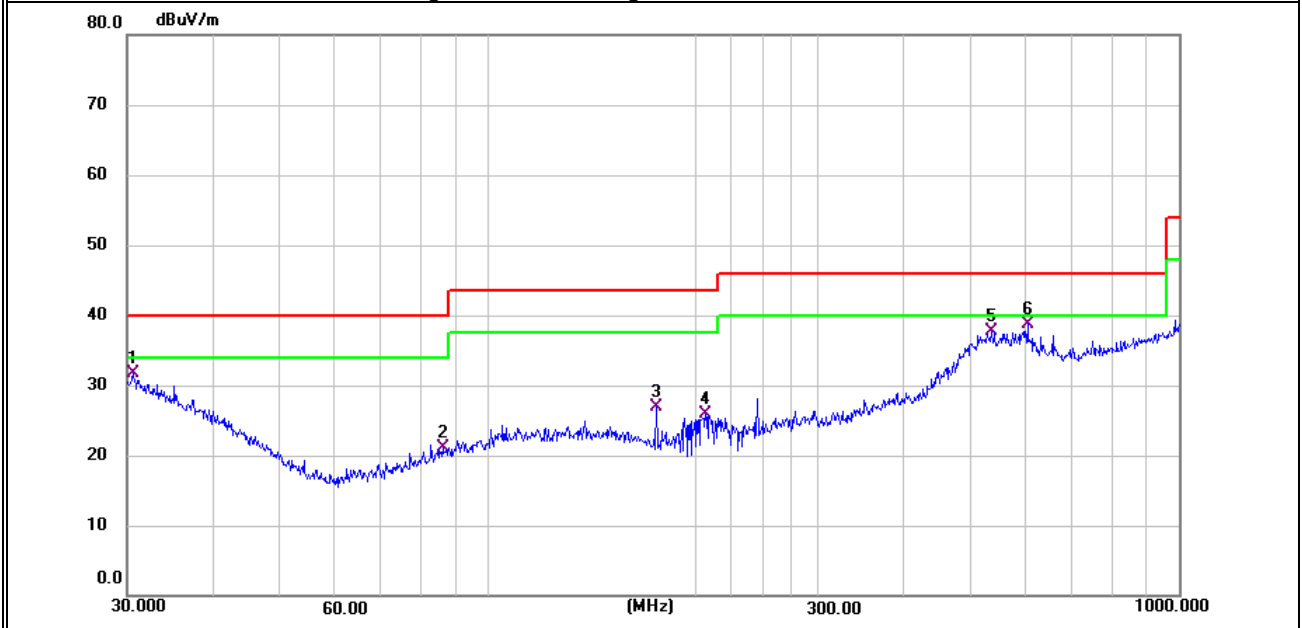
3.2.7 TEST RESULTS (30MHz – 1GHz)

EUT :	Era Color	Model Name. :	PB700K3
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.2G)- 802.11a (Mid CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.6375	5.70	25.98	31.68	40.00	-8.32	QP
V	85.8983	5.08	16.07	21.15	40.00	-18.85	QP
V	175.0364	9.91	17.04	26.95	43.50	-16.55	QP
V	206.3975	9.51	16.35	25.86	43.50	-17.64	QP
V	535.7073	12.39	25.38	37.77	46.00	-8.23	QP
V	603.5390	12.32	26.48	38.80	46.00	-7.20	QP

Remark:

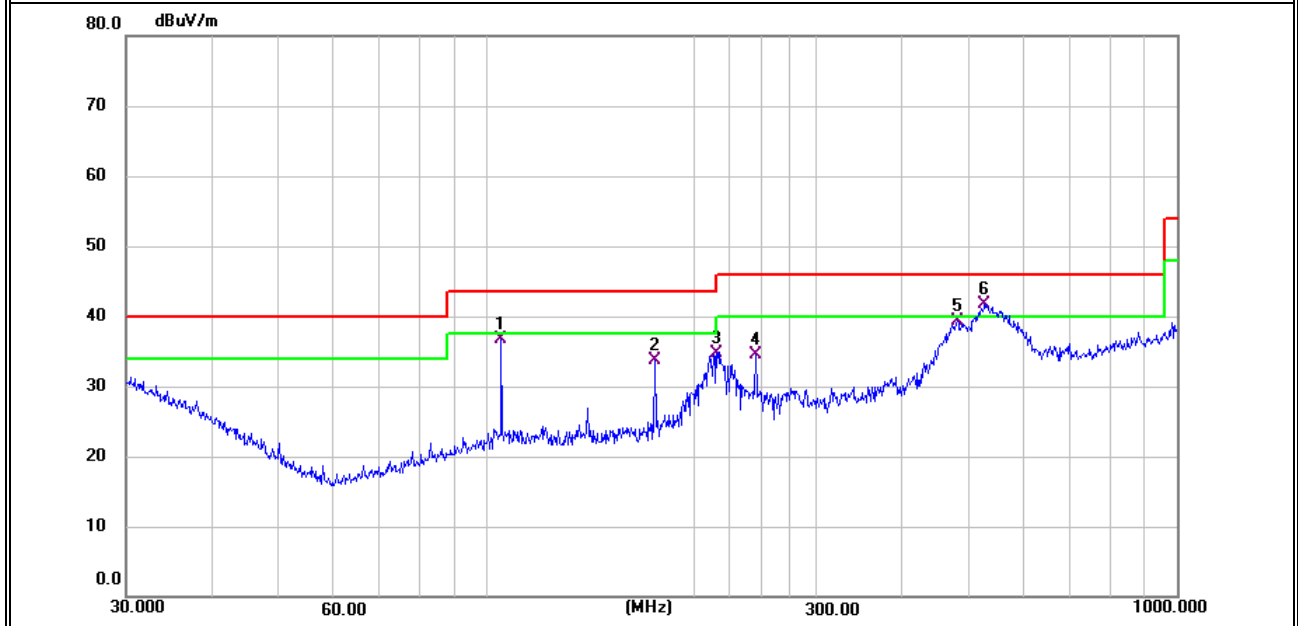
Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	104.9030	18.68	17.96	36.64	43.50	-6.86	QP
H	175.0363	16.62	17.04	33.66	43.50	-9.84	QP
H	215.2675	18.03	16.65	34.68	43.50	-8.82	QP
H	245.0900	16.15	18.37	34.52	46.00	-11.48	QP
H	480.5276	14.58	24.65	39.23	46.00	-6.77	QP
H	526.3967	16.50	25.27	41.77	46.00	-4.23	QP

Remark:

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



Note(1)“802.11a” mode is the worst mode.

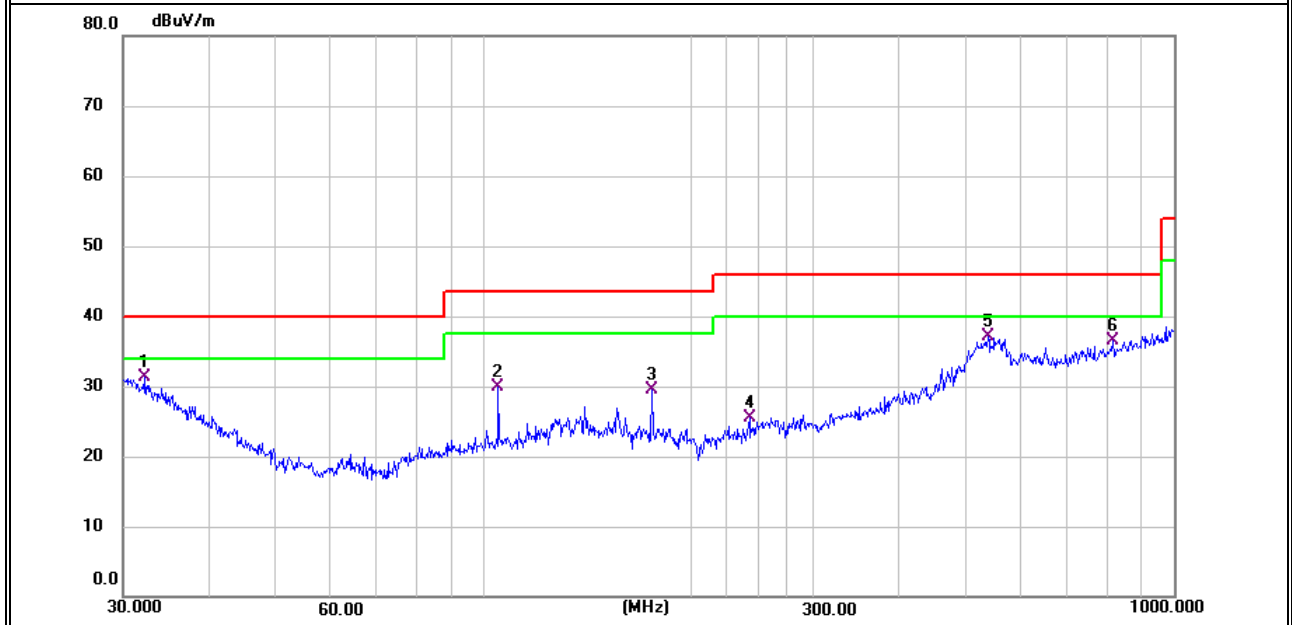
(2)Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

EUT :	Era Color	Model Name. :	PB700K3
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.8G)- 802.11a (Mid CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.2924	6.28	25.07	31.35	40.00	-8.65	QP
V	104.9030	11.92	17.96	29.88	43.50	-13.62	QP
V	175.0364	12.51	17.04	29.55	43.50	-13.95	QP
V	242.5252	7.41	18.14	25.55	46.00	-20.45	QP
V	537.5891	11.60	25.41	37.01	46.00	-8.99	QP
V	815.9678	6.83	29.72	36.55	46.00	-9.45	QP

Remark:

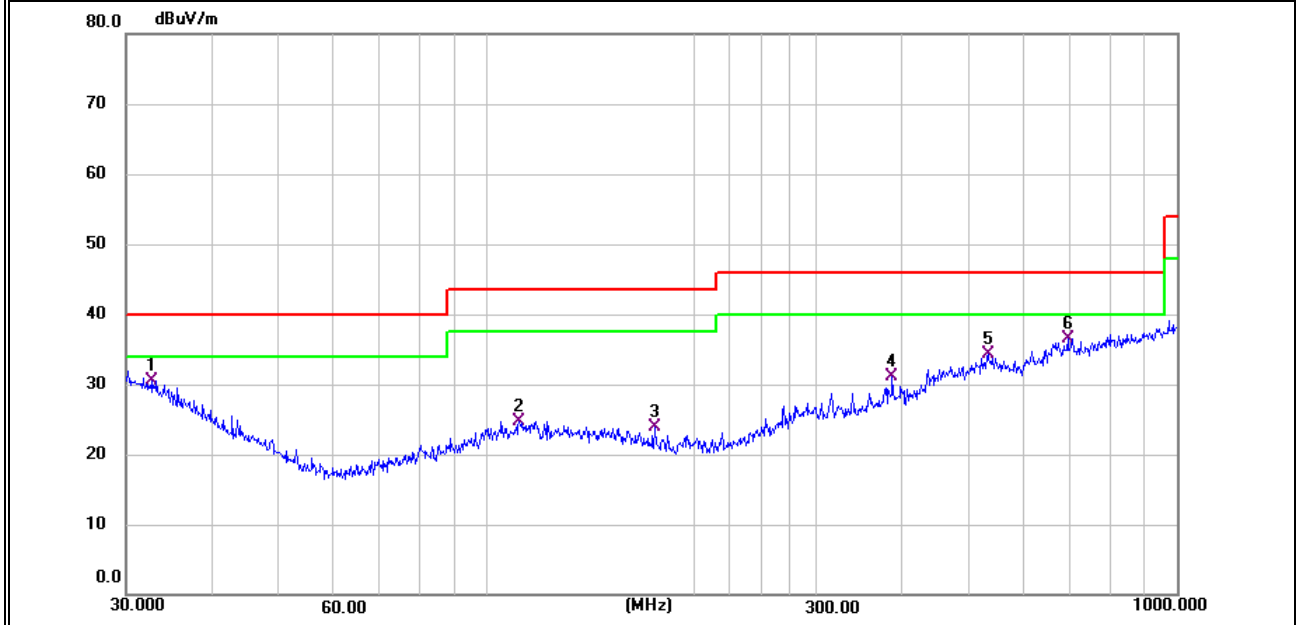
Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	32.7486	5.71	24.81	30.52	40.00	-9.48	QP
H	111.3468	6.49	18.27	24.76	43.50	-18.74	QP
H	175.0364	6.87	17.04	23.91	43.50	-19.59	QP
H	386.6338	8.18	22.91	31.09	46.00	-14.91	QP
H	531.9633	8.93	25.34	34.27	46.00	-11.73	QP
H	694.4174	8.65	27.88	36.53	46.00	-9.47	QP

Remark:

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



Note(1) "802.11a" mode is the worst mode.

(2) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

3.2.8 TEST RESULTS (1GHz-18GHz)

EUT :	Era Color	Model Name. :	PB700K3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.2G) - 802.11a_5180~5240MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	3694.10	60.37	5.94	35.40	44.00	57.71	74.00	-16.29	Pk
Vertical	3694.10	39.53	5.94	35.40	44.00	36.87	54.00	-17.13	AV
Vertical	10360.15	56.30	8.46	39.75	44.50	60.01	68.20	-8.19	Pk
Vertical	15540.22	59.17	10.12	38.80	44.10	63.99	74.00	-10.01	Pk
Vertical	15540.22	39.28	10.12	38.80	42.70	45.50	54.00	-8.50	AV
Horizontal	3713.00	60.06	5.94	35.18	44.00	57.18	74.00	-16.82	Pk
Horizontal	3713.00	39.32	5.94	35.18	44.00	36.44	54.00	-17.56	AV
Horizontal	10360.47	52.36	8.46	38.71	44.50	55.03	68.20	-13.17	Pk
Horizontal	15540.38	60.85	10.12	38.38	44.10	65.25	74.00	-8.75	Pk
Horizontal	15540.38	40.02	10.12	38.38	44.10	44.42	54.00	-9.58	AV
middle Channel (5200 MHz)-Above 1G									
Vertical	3624.13	60.13	6.48	36.35	44.05	58.91	74.00	-15.09	Pk
Vertical	3624.13	40.79	6.48	36.35	44.05	39.57	54.00	-14.43	AV
Vertical	10400.09	59.19	8.47	37.88	44.51	61.03	68.20	-7.17	Pk
Vertical	15600.15	59.89	10.12	38.80	44.10	64.71	74.00	-9.29	Pk
Vertical	15600.15	39.49	10.12	38.80	42.70	45.71	54.00	-8.29	AV
Horizontal	4202.14	59.93	6.48	36.37	44.05	58.73	74.00	-15.27	Pk
Horizontal	4202.14	39.30	6.48	36.37	44.05	38.10	54.00	-15.90	AV
Horizontal	10400.14	50.58	8.47	38.64	44.50	53.19	68.20	-15.01	Pk
Horizontal	15600.51	60.56	10.12	38.38	44.10	64.96	74.00	-9.04	Pk
Horizontal	15600.51	39.77	10.12	38.38	44.10	44.17	54.00	-9.83	AV

High Channel (5240 MHz)-Above 1G									
Vertical	4597.70	60.01	7.10	37.24	43.50	60.85	74.00	-13.15	Pk
Vertical	4597.70	39.53	7.10	37.24	43.50	40.37	54.00	-13.63	AV
Vertical	10480.23	59.68	8.46	37.68	44.50	61.32	68.20	-6.88	Pk
Vertical	15720.15	60.22	10.12	38.80	44.10	65.04	74.00	-8.96	Pk
Vertical	15720.15	39.54	10.12	38.80	42.70	45.76	54.00	-8.24	AV
Horizontal	4589.26	60.87	7.10	37.24	43.50	61.71	74.00	-12.29	Pk
Horizontal	4589.26	39.52	7.10	37.24	43.50	40.36	54.00	-13.64	AV
Horizontal	10480.59	59.61	8.46	38.57	44.50	62.14	68.20	-6.06	Pk
Horizontal	15720.18	60.98	10.12	38.38	44.10	65.38	74.00	-8.62	Pk
Horizontal	15720.18	39.15	10.12	38.38	44.10	43.55	54.00	-10.45	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.

EUT :	Era Color	Model Name. :	PB700K3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5.8G) -- 802.11a_5745~5825MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G									
Vertical	5122.51	59.86	5.94	35.40	44.00	57.20	74.00	-16.80	Pk
Vertical	5122.51	40.83	5.94	35.40	44.00	38.17	54.00	-15.83	AV
Vertical	11490.60	59.31	8.46	39.75	44.50	63.02	74.00	-10.98	Pk
Vertical	11490.60	40.06	8.46	39.75	44.50	43.77	54.00	-10.23	AV
Vertical	17235.65	39.60	10.12	38.80	44.10	44.42	68.20	-23.78	Pk
Horizontal	5166.60	59.23	5.94	35.18	44.00	56.35	68.20	-11.85	Pk
Horizontal	11490.47	49.05	8.46	38.71	44.50	51.72	74.00	-22.28	Pk
Horizontal	11490.47	39.65	8.46	38.71	44.50	42.32	54.00	-11.68	AV
Horizontal	17235.47	56.64	10.12	38.38	44.10	61.04	68.20	-7.16	Pk
middle Channel (5785 MHz)-Above 1G									
Vertical	5433.40	59.32	6.48	36.35	44.05	58.10	74.00	-15.90	Pk
Vertical	5433.40	40.72	6.48	36.35	44.05	39.50	54.00	-14.50	AV
Vertical	11570.41	60.20	8.47	37.88	44.51	62.04	74.00	-11.96	Pk
Vertical	11570.41	40.00	8.47	37.88	44.51	41.84	54.00	-12.16	AV
Vertical	17355.84	39.70	10.12	38.80	44.10	44.52	68.20	-23.68	Pk
Horizontal	4866.60	59.88	6.48	36.37	44.05	58.68	74.00	-15.32	Pk
Horizontal	4866.60	39.57	6.48	36.37	44.05	38.37	54.00	-15.63	AV
Horizontal	11570.28	60.93	8.47	38.64	44.50	63.54	74.00	-10.46	Pk
Horizontal	11570.28	39.45	8.47	38.64	44.50	42.06	54.00	-11.94	AV
Horizontal	17355.49	49.49	10.12	38.38	44.10	53.89	68.20	-14.31	Pk

High Channel (5825 MHz)-Above 1G									
Vertical	5244.48	60.17	7.10	37.24	43.50	61.01	68.20	-7.19	Pk
Vertical	11652.42	59.48	8.46	37.68	44.50	61.12	74.00	-12.88	Pk
Vertical	11652.42	39.92	8.46	37.68	44.50	41.56	54.00	-12.44	AV
Vertical	17473.74	50.89	10.12	38.80	44.10	55.71	68.20	-12.49	Pk
Horizontal	5285.29	59.91	7.10	37.24	43.50	60.75	68.20	-7.45	Pk
Horizontal	11652.67	59.35	8.46	38.57	44.50	61.88	74.00	-12.12	Pk
Horizontal	11652.67	39.38	8.46	38.57	44.50	41.91	54.00	-12.09	AV
Horizontal	17474.68	50.58	10.12	38.38	44.10	54.98	68.20	-13.22	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.

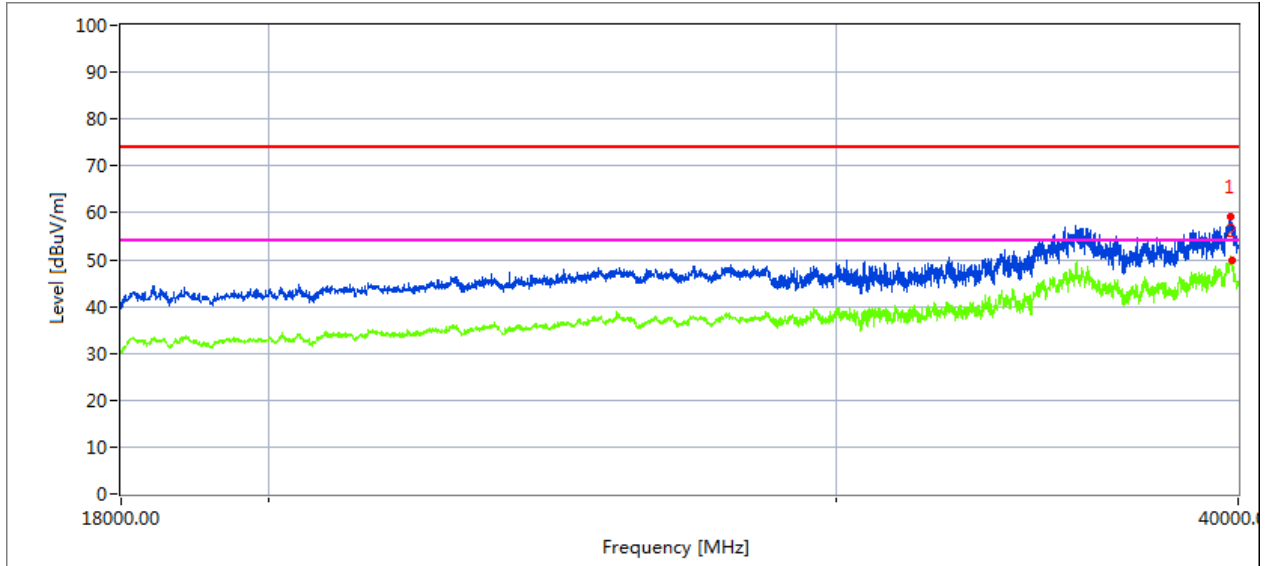
3.2.9 TEST RESULTS (18GHz-40GHz)

EUT :	Era Color	Model Name. :	PB700K3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5.2G)-802.11a 5180MHz~5240MHz, TX (5.8G)-802.11a 5745MHz~5825MHz		

All the modulation modes have been tested, and the worst result was report as below:

Low Channel (5180 MHz)-Above 1G

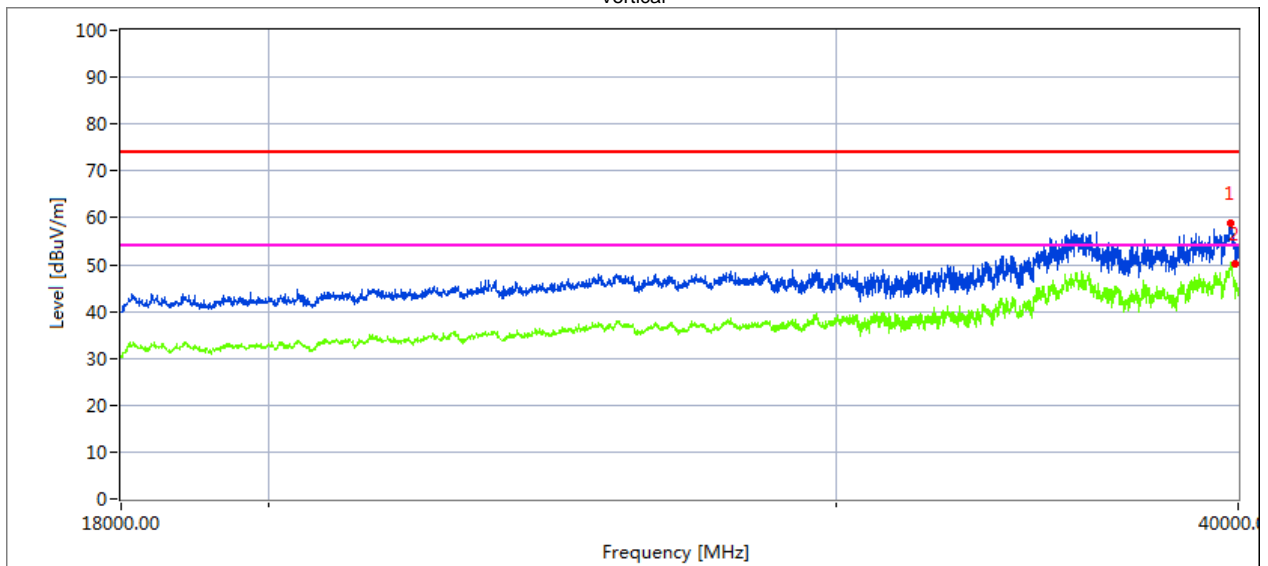
Horizontal



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	41.08	20.09	44.07	43.48	61.76	68.2	6.44	Peak
39767.19	28.66	20.09	44.04	43.48	49.31	54	4.69	AVG

Vertical

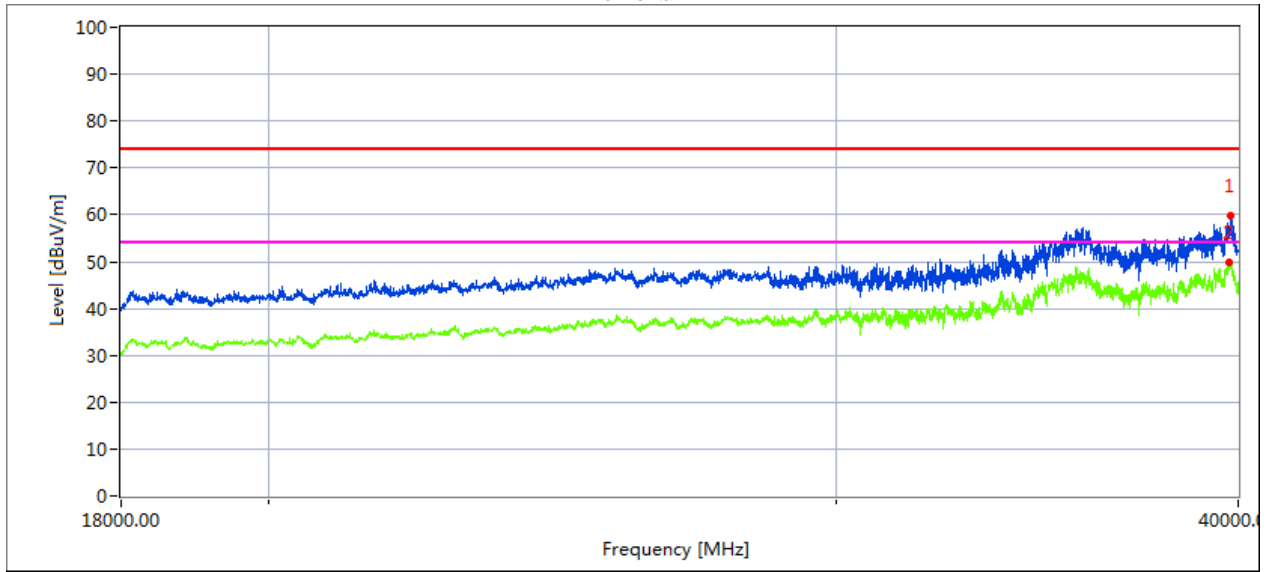


Measurement Result:

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
39769.546	43.74	20.09	44.07	43.48	64.42	68.2	3.78	Peak
39769.365	28.42	20.09	44.04	43.48	49.07	54	4.93	AVG

High Channel (5240 MHz)-Above 1G

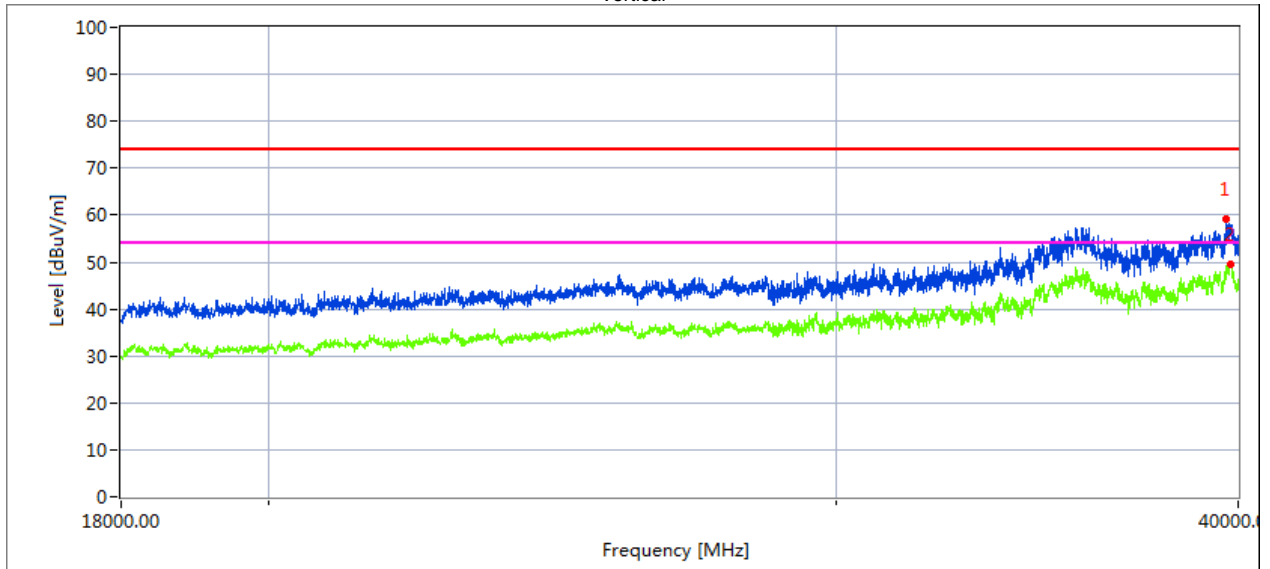
Horizontal



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	44.87	19.11	42.73	44.61	62.10	68.2	6.10	Peak
35596.986	30.96	19.11	42.73	44.61	48.19	54	5.81	AVG

Vertical

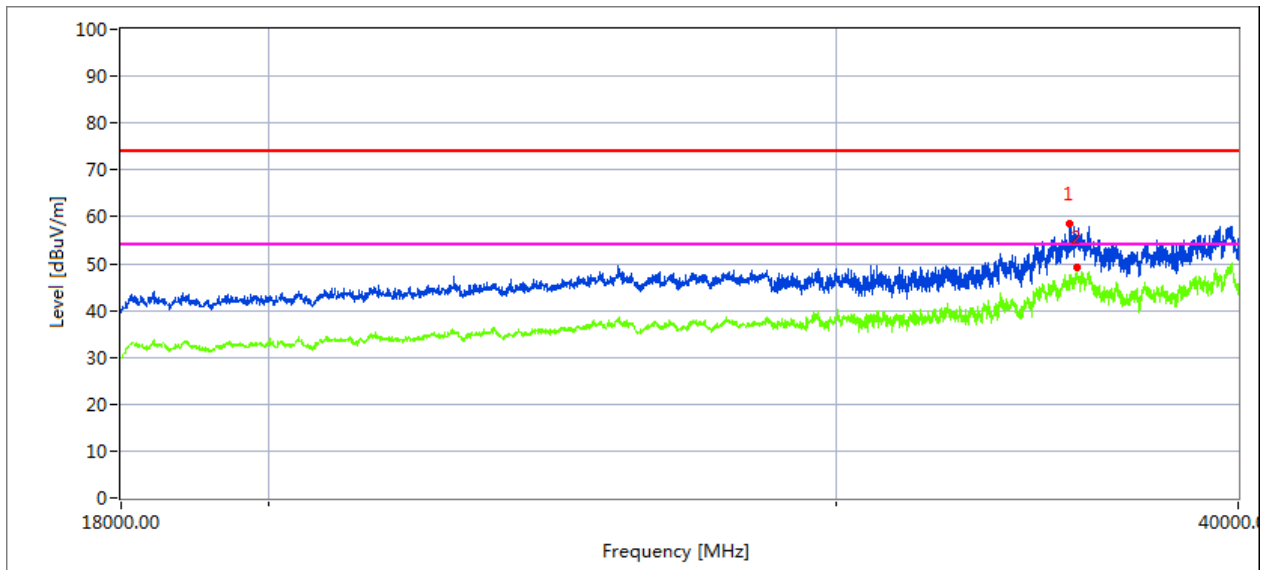


Measurement Result:

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
39769.476	43.54	20.09	44.07	43.48	64.22	68.2	3.98	Peak
39769.476	28.73	20.09	44.04	43.48	49.38	54	4.62	AVG

Low Channel (5745 MHz)-Above 1G

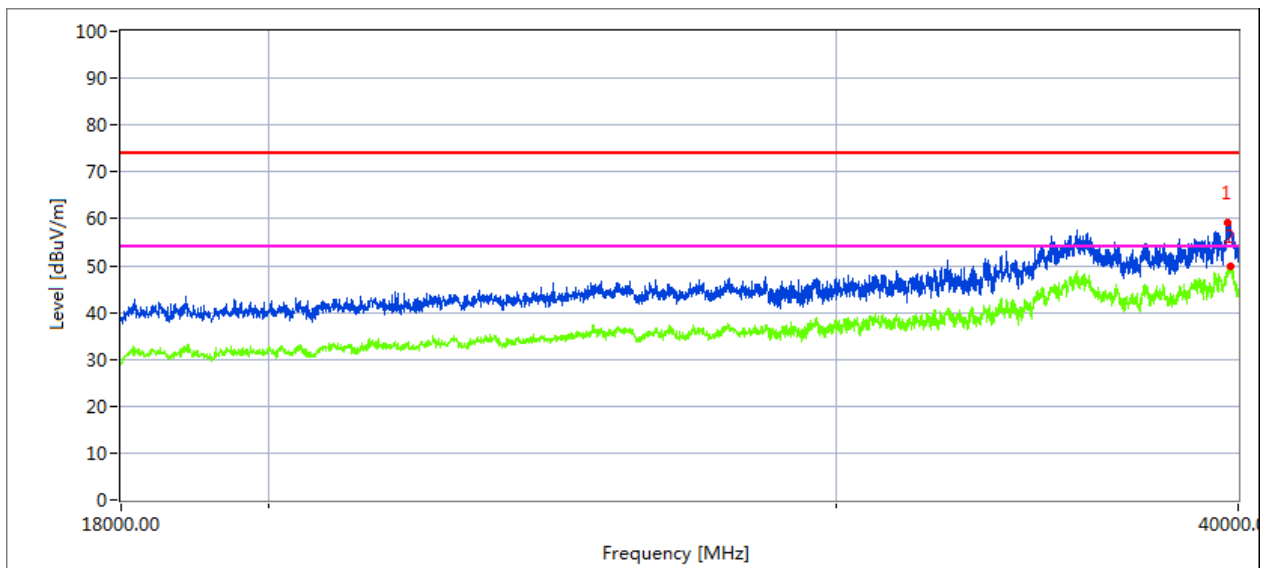
Horizontal



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	40.29	20.09	44.16	43.48	61.06	68.2	7.14	Peak
39670.224	28.51	20.09	44.16	43.48	49.28	54	4.72	AVG

Vertical

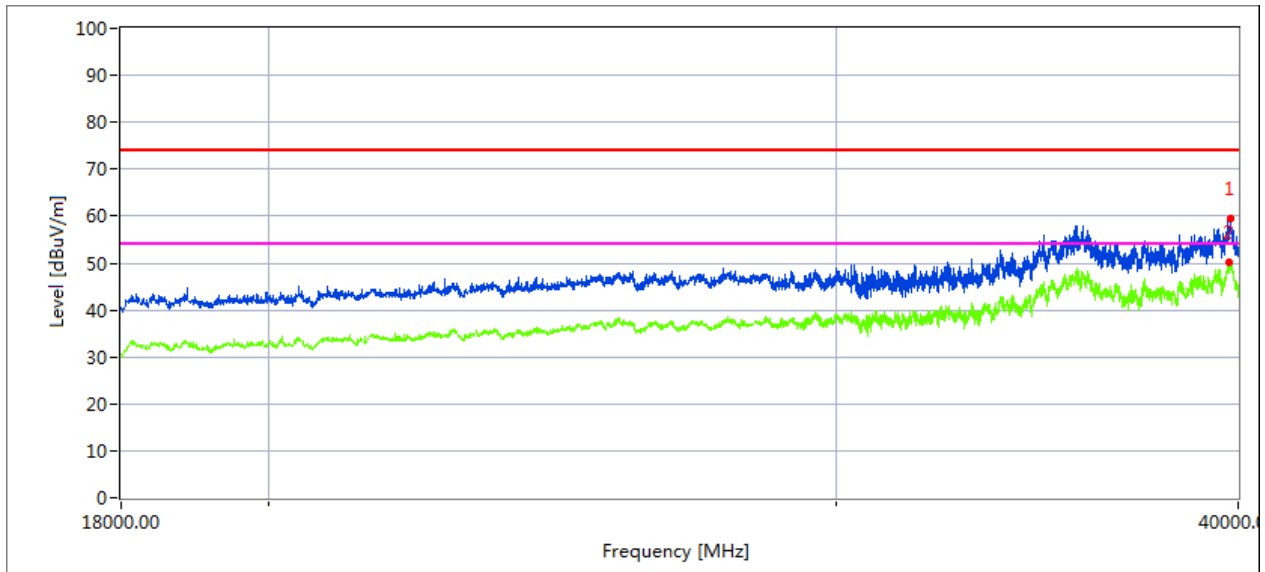


Measurement Result:

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
39731.342	43.61	20.06	44.07	43.21	64.53	68.2	3.67	Peak
39731.342	28.12	20.06	44.07	43.21	49.04	54	4.96	AVG

High Channel (5825 MHz)-Above 1G

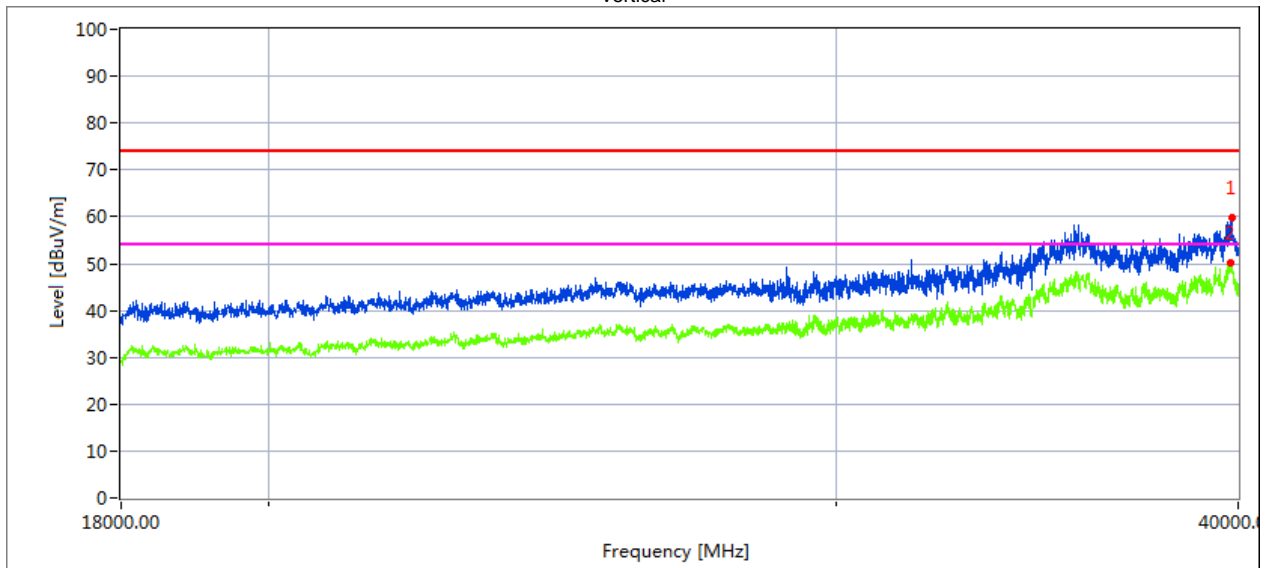
Horizontal



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	43.26	19.11	42.63	43.48	61.52	68.2	6.68	Peak
35636.158	28.36	19.12	42.63	43.48	46.63	54	7.37	AVG

Vertical



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
39821.763	43.86	20.1	44.1	43.22	64.84	68.2	3.36	Peak
39821.763	28.85	20.1	44.1	43.22	49.83	54	4.17	AVG

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

EUT :	Era Color	Model Name. :	PB700K3
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5.2G)-802.11a 5150MHz~5250MHz,		

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

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
5.2G WIFI-802.11a Mode									
4500	62.09	5.2	35.6	44.2	58.69	74	-15.31	Pk	Horizontal
4500	36.23	5.2	35.6	44.2	32.83	54	-21.17	AV	Horizontal
4500	62.84	5.2	35.6	44.2	59.44	74	-14.56	Pk	Horizontal
4500	34.02	5.2	35.6	44.2	30.62	54	-23.38	AV	Horizontal
5150	62.53	5.36	35.66	44.22	59.33	74	-14.67	Pk	Horizontal
5150	32.41	5.36	35.66	44.22	29.21	54	-24.79	AV	Horizontal
5150	62.65	5.36	35.66	44.22	59.45	74	-14.55	Pk	Vertical
5150	43.60	5.36	35.66	44.22	40.40	54	-13.60	AV	Vertical
5350	62.58	5.68	35.68	44.22	59.72	74	-14.28	Pk	Vertical
5350	34.89	5.68	35.68	44.22	32.03	54	-21.97	AV	Vertical
5350	63.30	5.68	35.68	44.22	60.44	74	-13.56	Pk	Horizontal
5350	37.48	5.68	35.68	44.22	34.62	54	-19.38	AV	Horizontal

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 record.

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.

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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:

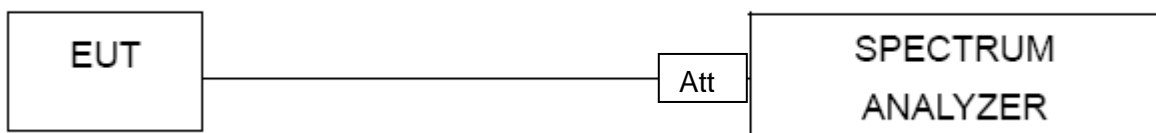
- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ 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 $RBW=100 \text{ KHz}$ 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 :	Era Color	Model Name. :	PB700K3
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)		

Test data reference attachment.

3.4 26DB & 99% EMISSION BANDWIDTH

3.4.1 Applied procedures / limit

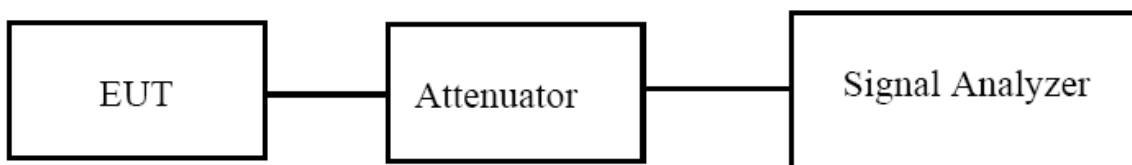
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band 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 $\geq 3 \cdot$ 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 :	Era Color	Model Name. :	PB700K3
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)		

Test data reference attachment.

3.5 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

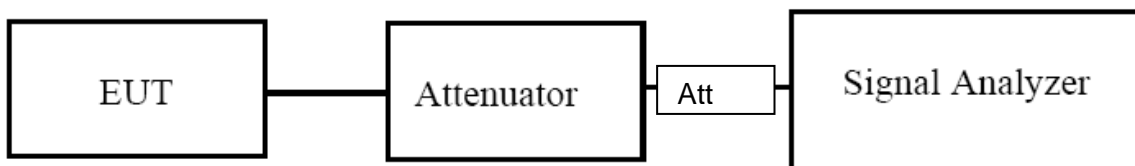
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ 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 :	Era Color	Model Name. :	PB700K3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5G) Mode Frequency Band IV (5725-5850MHz)		

Test data reference attachment.

3.6 MAXIMUM CONDUCTED OUTPUT POWER

3.6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conducted output power should not exceed:

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

3.6.2 TEST PROCEDURE

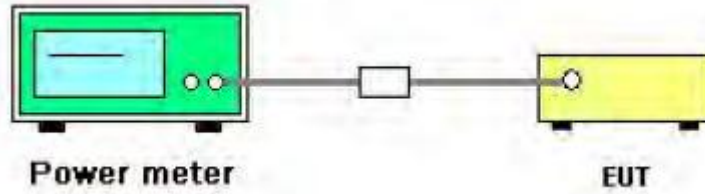
Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:

- a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
 - 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle D of the transmitter output signal as described in 12.2.
- c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- d) Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle {e.g., $[10 \log (1 / 0.25)]$, if the duty cycle is 25%}.

3.6.3 DEVIATION FROM STANDARD

No deviation.

3.6.4 TEST SETUP



3.6.5 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.

3.6.6 TEST RESULTS

EUT :	Era Color	Model Name. :	PB700K3
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5G) Mode Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)		

Test data reference attachment.

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 the band edge.

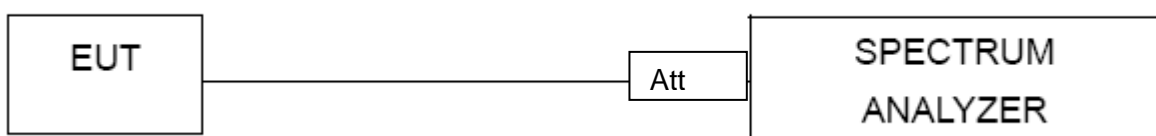
3.7.2 Test Procedure

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 :	Era Color	Model Name. :	PB700K3
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V

Test data reference attachment.

3.8 SPURIOUS RF CONDUCTED EMISSIONS

3.8.1 Conformance Limit

According to FCC §15.407(b)(1)(4)

3.8.2 Measuring Instruments

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

3.8.3 Test Setup

Please refer to Section 6.1 of this test report.

3.8.4 Test 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.

3.8.5 Test 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 bandedge measurement data.

Test data reference attachment.

3.9 FREQUENCY STABILITY MEASUREMENT

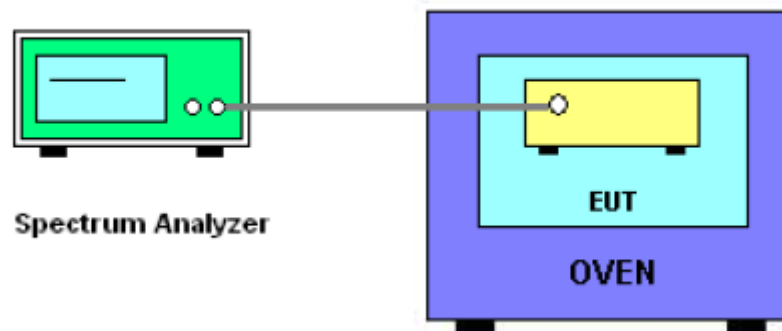
3.9.1 LIMIT

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.

3.9.2 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. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f) / f_c \times 10^6 \text{ ppm}$.
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 $-20^\circ\text{C} \sim 70^\circ\text{C}$.

3.9.3 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 :	Era Color	Model Name. :	PB700K3
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX Frequency Band I (5150-5250MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5180.0097	5180	0.0097	1.8802
		V max (V)	4.35	5180.0084	5180	0.0084	1.6227
		V min (V)	3.40	5180.0075	5180	0.0075	1.4408
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5180.0042	5180	0.0042	0.8161
		T (°C)	-10	5180.0068	5180	0.0068	1.3117
		T (°C)	0	5180.0058	5180	0.0058	1.1233
		T (°C)	10	5180.0062	5180	0.0062	1.1993
		T (°C)	20	5180.0019	5180	0.0019	0.3723
		T (°C)	30	5180.0002	5180	0.0002	0.0460
		T (°C)	40	5180.0029	5180	0.0029	0.5590
		T (°C)	50	5180.0048	5180	0.0048	0.9223
		T (°C)	60	5180.0072	5180	0.0072	1.3837
		T (°C)	70	5180.0021	5180	0.0021	0.4133
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5200.0013	5200	0.0013	0.2415
		V max (V)	4.35	5200.0036	5200	0.0036	0.7004
		V min (V)	3.40	5200.0058	5200	0.0058	1.1201
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5200.0075	5200	0.0075	1.4380
		T (°C)	-10	5200.0074	5200	0.0074	1.4138
		T (°C)	0	5200.0063	5200	0.0063	1.2160
		T (°C)	10	5200.0090	5200	0.0090	1.7322
		T (°C)	20	5200.0091	5200	0.0091	1.7565
		T (°C)	30	5200.0079	5200	0.0079	1.5122
		T (°C)	40	5200.0089	5200	0.0089	1.7044
		T (°C)	50	5200.0084	5200	0.0084	1.6201
		T (°C)	60	5200.0045	5200	0.0045	0.8728
		T (°C)	70	5200.0020	5200	0.0020	0.3902
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5240.0074	5240	0.0074	1.4158
		V max (V)	4.35	5240.0090	5240	0.0090	1.7141
		V min (V)	3.40	5240.0000	5240	0.0000	0.0039
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5240.0098	5240	0.0098	1.8719
		T (°C)	-10	5240.0054	5240	0.0054	1.0369
		T (°C)	0	5240.0031	5240	0.0031	0.5823
		T (°C)	10	5240.0006	5240	0.0006	0.1143
		T (°C)	20	5240.0092	5240	0.0092	1.7552
		T (°C)	30	5240.0009	5240	0.0009	0.1623
		T (°C)	40	5240.0024	5240	0.0024	0.4598
		T (°C)	50	5240.0017	5240	0.0017	0.3200
		T (°C)	60	5240.0015	5240	0.0015	0.2785
		T (°C)	70	5240.0013	5240	0.0013	0.2505
Limits				Within 5150-5250MHz			
Result				Complies			

EUT :	Era Color	Model Name. :	PB700K3
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX Frequency(5745-5825MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5745.0023	5745	0.00233	0.4062
		V max (V)	4.35	5745.0040	5745	0.00398	0.6922
		V min (V)	3.40	5745.0008	5745	0.00083	0.1450
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5745.0003	5745	0.00028	0.0484
		T (°C)	-10	5745.0013	5745	0.00129	0.2238
		T (°C)	0	5745.0025	5745	0.00247	0.4300
		T (°C)	10	5745.0068	5745	0.00681	1.1849
		T (°C)	20	5745.0049	5745	0.00487	0.8482
		T (°C)	30	5745.0028	5745	0.00278	0.4832
		T (°C)	40	5745.0058	5745	0.00577	1.0049
		T (°C)	50	5745.0033	5745	0.00329	0.5735
		T (°C)	60	5745.0095	5745	0.00954	1.6602
		T (°C)	70	5745.0037	5745	0.00374	0.6502
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5785.0052	5785	0.00515	0.8905
		V max (V)	4.35	5785.0072	5785	0.00717	1.2401
		V min (V)	3.40	5785.0029	5785	0.00287	0.4959
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5785.0077	5785	0.00765	1.3228
		T (°C)	-10	5785.0072	5785	0.00718	1.2420
		T (°C)	0	5785.0081	5785	0.00809	1.3979
		T (°C)	10	5785.0057	5785	0.00565	0.9774
		T (°C)	20	5785.0039	5785	0.00391	0.6756
		T (°C)	30	5785.0090	5785	0.00899	1.5545
		T (°C)	40	5785.0023	5785	0.00232	0.4012
		T (°C)	50	5785.0046	5785	0.00456	0.7882
		T (°C)	60	5785.0026	5785	0.00255	0.4409
		T (°C)	70	5785.0069	5785	0.00688	1.1896
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5825.0071	5825	0.00705	1.2110
		V max (V)	4.35	5825.0021	5825	0.00211	0.3623
		V min (V)	3.40	5825.0100	5825	0.00995	1.7085
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5825.0071	5825	0.00708	1.2152
		T (°C)	-10	5825.0033	5825	0.00326	0.5601
		T (°C)	0	5825.0053	5825	0.00532	0.9130
		T (°C)	10	5825.0058	5825	0.00583	1.0012
		T (°C)	20	5825.0076	5825	0.00762	1.3080
		T (°C)	30	5825.0007	5825	0.00070	0.1201
		T (°C)	40	5825.0071	5825	0.00711	1.2205
		T (°C)	50	5825.0015	5825	0.00153	0.2626
		T (°C)	60	5825.0026	5825	0.00264	0.4534
		T (°C)	70	5825.0034	5825	0.00343	0.5896
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: band I : 3.08dBi;, band IV 3.08dBi;). It comply with the standard requirement.

END OF REPORT