

FCC REPORT

(BLE)

Applicant: PAX Technology Limited

Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road,
Wanchai, Hong Kong

Equipment Under Test (EUT)

Product Name: Countertop Payment Terminal

Model No.: A80

Trade mark: PAX

FCC ID: V5PA80SMBW

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 21 Oct., 2021

Date of Test: 22 Oct., to 01 Dec., 2021

Date of report issued: 13 Dec., 2021

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	01 Dec., 2021	Original
01	13 Dec., 2021	Update manufacturer address.

Tested by:

Mike.ou

Test Engineer

Date:

13 Dec., 2021

Reviewed by:

Winner Zhang

Project Engineer

Date:

13 Dec., 2021

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4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A - BLE	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A - BLE	Pass
Power Spectral Density	15.247 (e)	Appendix A - BLE	Pass
Conducted Band Edge	15.247 (d)	Appendix A - BLE	Pass
Radiated Band Edge		See Section 6.6.2	Pass
Conducted Spurious Emission	15.205 & 15.209	Appendix A - BLE	Pass
Radiated Spurious Emission		See Section 6.7.2	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. 3. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (provided by the customer).			
Test Method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02		

5 General Information

5.1 Client Information

Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong
Manufacturer:	PAX Technology Limited
Address:	401 and 402, Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C

5.2 General Description of E.U.T.

Product Name:	Countertop Payment Terminal
Model No.:	A80
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps & 2Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.5 dBi
AC adapter:	Adapter 1: Model No.: G024A090100ZZUD Input: AC100-240V, 50/60Hz 0.8A Max Output: DC 9.0V, 1.0A Adapter 2: Model No.: ADS-18SG-09-2 09009G Input: AC100-240V, 50/60Hz 0.6A Max Output: DC 9.0V, 1.0A Adapter 3: Model No.: SW-0396A Input: AC100-240V, 50/60Hz 0.5A Max Output: DC 9.0V, 1.0A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	There are two kinds of EUT, one with modem, the other without. Choose to test the EUT with modem.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.

5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.	

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA 0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+	Version:3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		

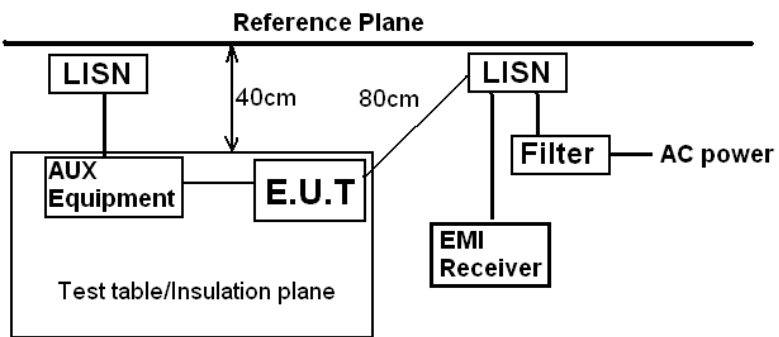
Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Vector Signal Generator	Keysight	N5182B	MY59101009	10-27-2021	10-26-2022
Analog Signal Generator	Keysight	N5173B	MY59100765	10-27-2021	10-26-2022
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-19-2021	11-18-2022
Simulated Station	Rohde & Schwarz	CMW270	102335	10-27-2021	10-26-2022
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A
PDU	MWRF-test	XY-G10	N/A	N/A	N/A
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2023
Temperature Humidity Chamber	Deli	8840	N/A	03-08-2021	03-07-2022
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0		

6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
E.U.T Antenna:	
The BLE antenna is an Internal antenna which cannot replace by end-user, the best-case gain of the antenna is 1.5dBi.	

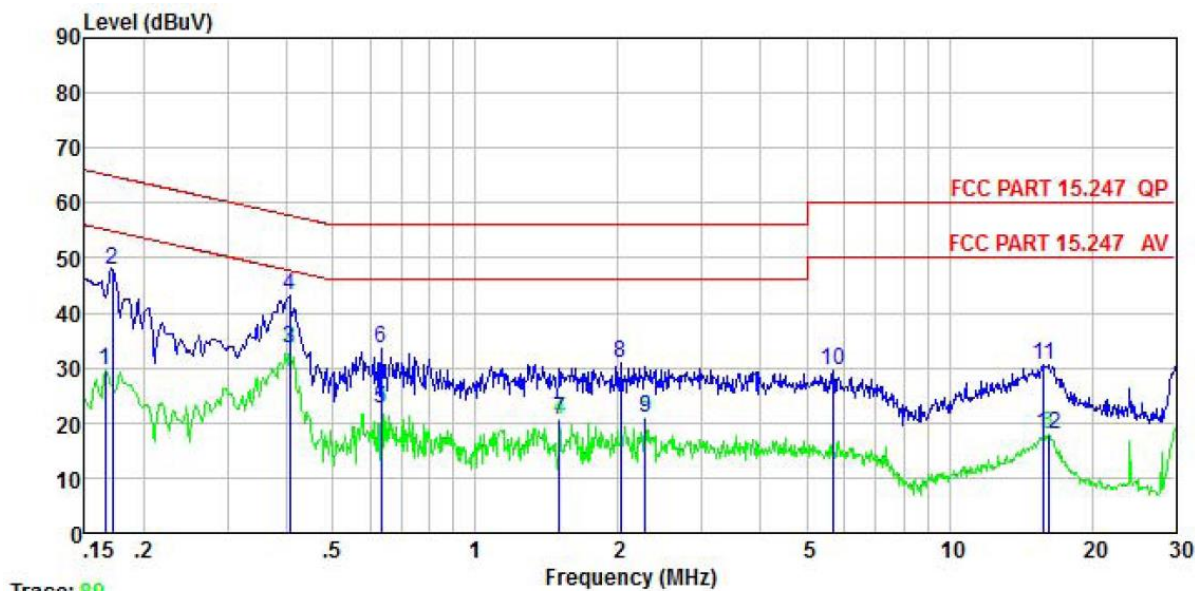
6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure:	- The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. - The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). - Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement.		
Test setup:	 <i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass(pre-scan adapter 1, adapter 2 and adapter 3, found adapter 2 was worse case mode, only reflects the worst mode)		

Measurement Data:

Adapter 2:

Product name:	Countertop Payment Terminal	Product model:	A80
Test by:	Mike	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Humi: 55%

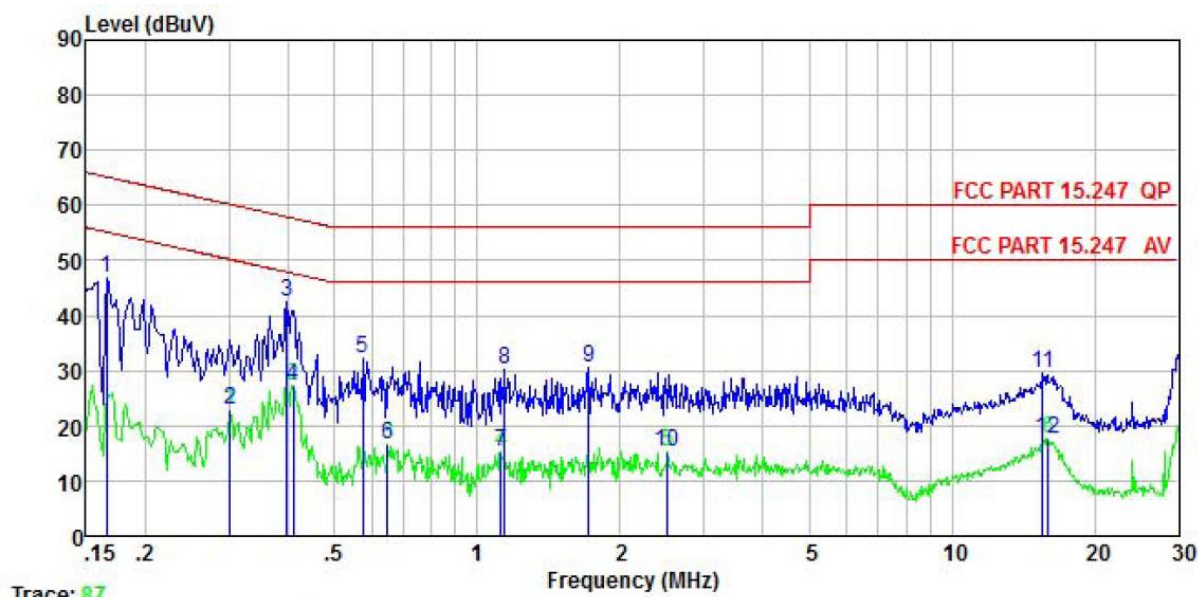


	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.166	19.48	10.22	0.00	0.01	29.71	55.16	-25.45	Average
2	0.171	37.59	10.22	0.00	0.01	47.82	64.90	-17.08	QP
3	0.406	23.08	10.28	0.00	0.04	33.40	47.73	-14.33	Average
4	0.406	32.82	10.28	0.00	0.04	43.14	57.73	-14.59	QP
5	0.634	12.32	10.30	0.00	0.02	22.64	46.00	-23.36	Average
6	0.634	23.17	10.30	0.00	0.02	33.49	56.00	-22.51	QP
7	1.503	9.96	10.33	0.00	0.14	20.43	46.00	-25.57	Average
8	2.023	20.43	10.33	0.00	0.20	30.96	56.00	-25.04	QP
9	2.285	10.28	10.34	0.00	0.16	20.78	46.00	-25.22	Average
10	5.683	18.95	10.45	0.00	0.09	29.49	60.00	-30.51	QP
11	15.801	19.69	10.79	0.00	0.16	30.64	60.00	-29.36	QP
12	16.140	7.10	10.81	0.00	0.16	18.07	50.00	-31.93	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

Product name:	Countertop Payment Terminal	Product model:	A80
Test by:	Mike	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.166	36.60	10.20	0.00	0.01	46.81	65.16	-18.35	QP
2	0.302	12.70	10.25	0.00	0.03	22.98	50.19	-27.21	Average
3	0.398	32.07	10.27	0.00	0.04	42.38	57.90	-15.52	QP
4	0.410	17.04	10.27	0.00	0.04	27.35	47.64	-20.29	Average
5	0.573	21.88	10.29	0.00	0.02	32.19	56.00	-23.81	QP
6	0.647	6.26	10.30	0.00	0.02	16.58	46.00	-29.42	Average
7	1.123	5.04	10.31	0.00	0.08	15.43	46.00	-30.57	Average
8	1.141	19.91	10.31	0.00	0.08	30.30	56.00	-25.70	QP
9	1.716	19.90	10.32	0.00	0.17	30.39	56.00	-25.61	QP
10	2.513	4.90	10.33	0.00	0.13	15.36	46.00	-30.64	Average
11	15.552	18.58	10.75	0.00	0.15	29.48	60.00	-30.52	QP
12	15.970	6.80	10.76	0.00	0.16	17.72	50.00	-32.28	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

6.3 Conducted Output Power

Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

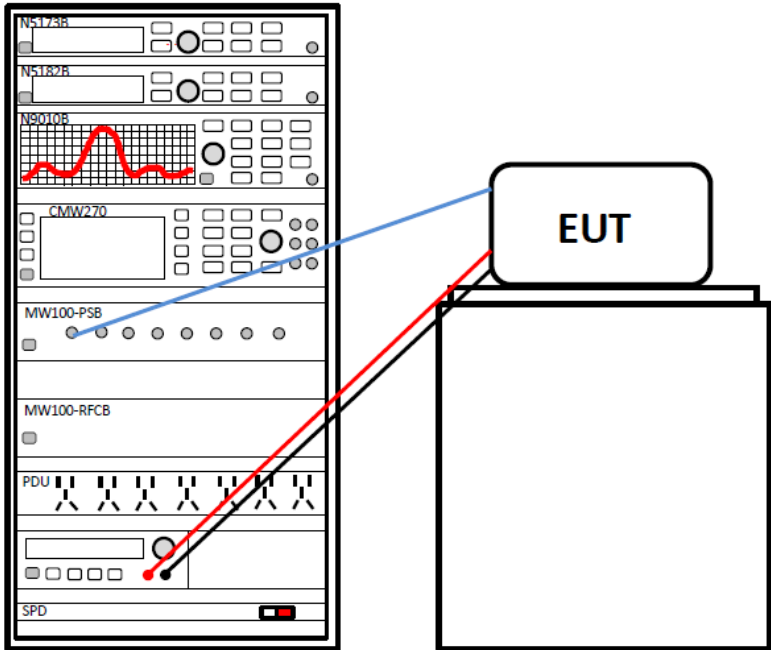
Measurement Data: Refer to Appendix A - BLE

6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Limit:	>500kHz
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data: Refer to Appendix A - BLE

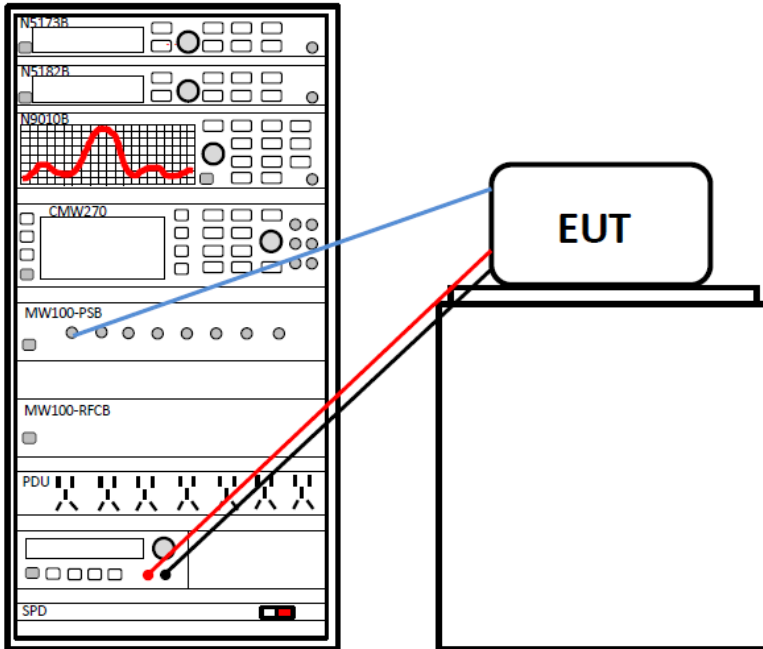
6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)
Limit:	8 dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data: Refer to Appendix A - BLE

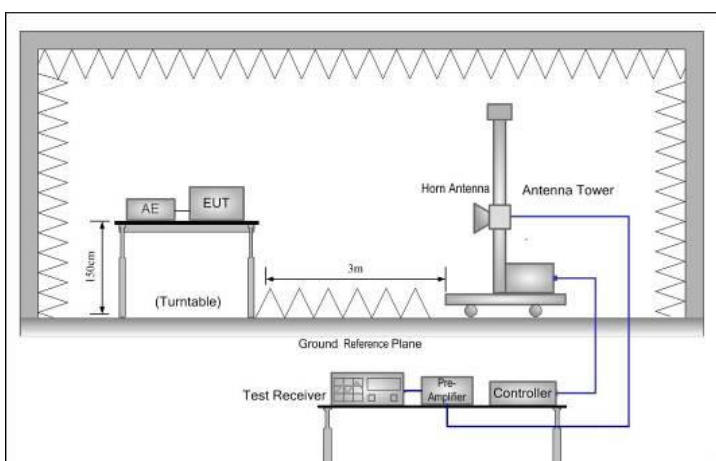
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

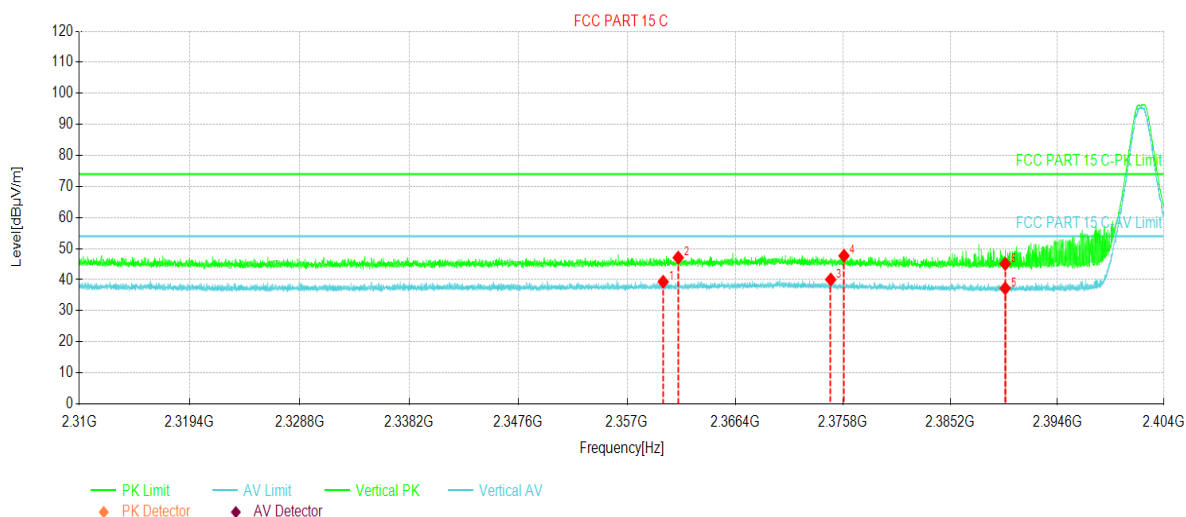
Measurement Data: Refer to Appendix A - BLE

6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209				
Test Frequency Range:	2310 MHz to 2390 MHz and 2483.5MHz to 2500 MHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
RMS		1MHz	3MHz	Average Value	
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	Above 1GHz	54.00		Average Value	
		74.00		Peak Value	
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:					
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

PHY: 1MHz

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

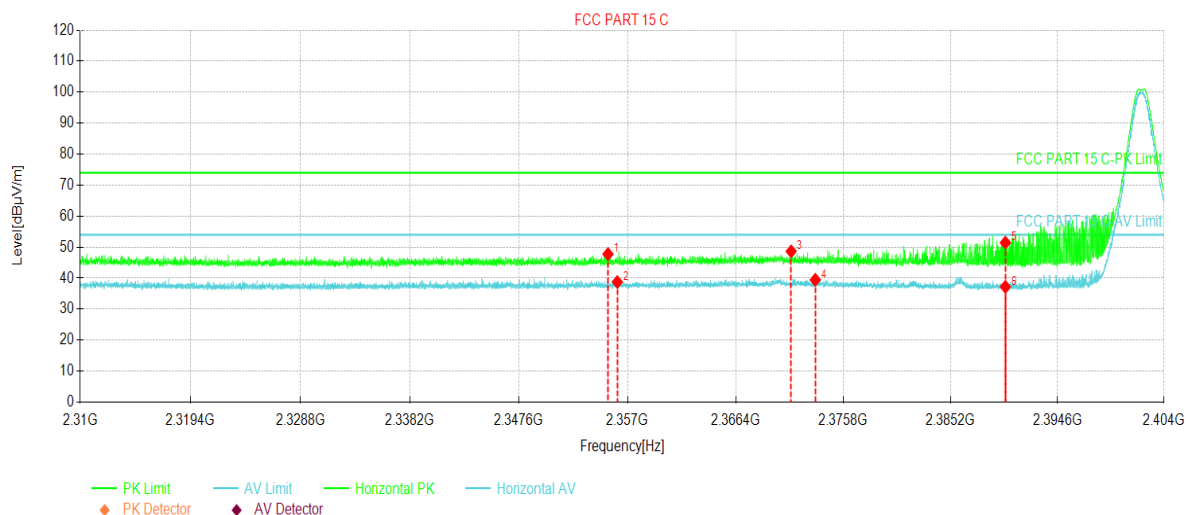


NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2360.13	32.33	39.31	6.98	54.00	14.69	AV	Vertical
2	2361.44	40.11	47.09	6.98	74.00	26.91	PK	Vertical
3	2374.71	33.00	40.03	7.03	54.00	13.97	AV	Vertical
4	2375.88	40.66	47.69	7.03	74.00	26.31	PK	Vertical
5	2390.00	30.12	37.20	7.08	54.00	16.80	AV	Vertical
6	2390.00	38.01	45.09	7.08	74.00	28.91	PK	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

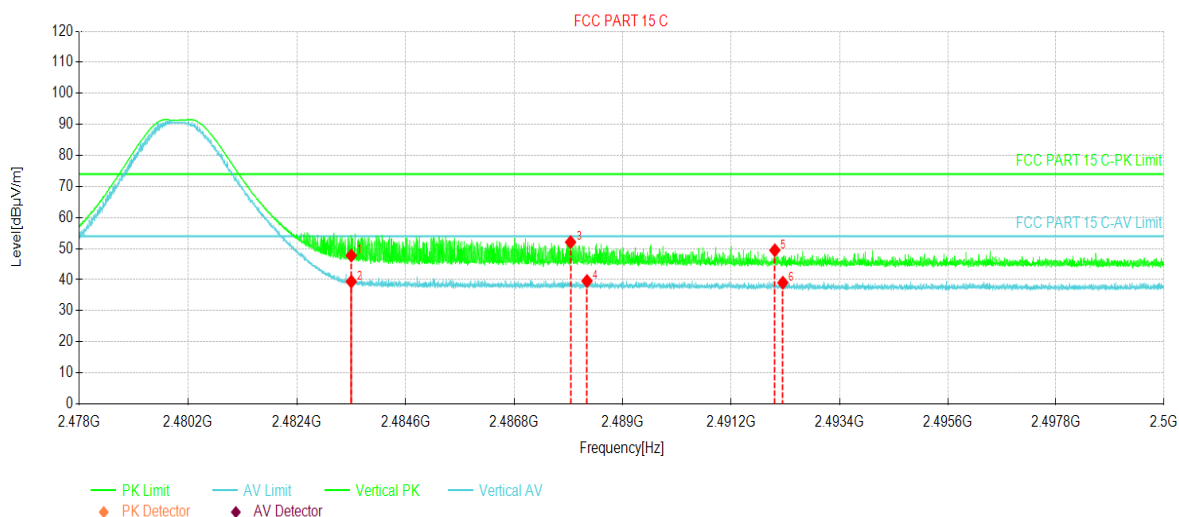


NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2355.30	40.79	47.75	6.96	74.00	26.25	PK	Horizontal
2	2356.11	31.79	38.76	6.97	54.00	15.24	AV	Horizontal
3	2371.24	41.62	48.64	7.02	74.00	25.36	PK	Horizontal
4	2373.34	32.44	39.46	7.02	54.00	14.54	AV	Horizontal
5	2390.00	44.36	51.44	7.08	74.00	22.56	PK	Horizontal
6	2390.00	30.12	37.20	7.08	54.00	16.80	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

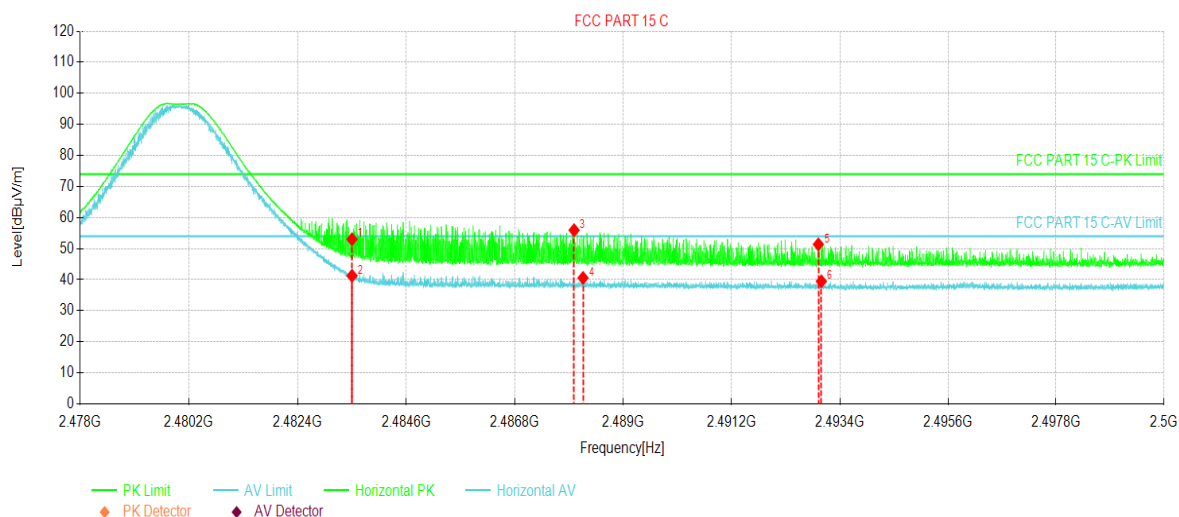


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	40.08	47.77	7.69	74.00	26.23	PK	Vertical
2	2483.50	31.68	39.37	7.69	54.00	14.63	AV	Vertical
3	2487.94	44.36	52.08	7.72	74.00	21.92	PK	Vertical
4	2488.27	31.84	39.56	7.72	54.00	14.44	AV	Vertical
5	2492.08	41.73	49.48	7.75	74.00	24.52	PK	Vertical
6	2492.24	31.27	39.02	7.75	54.00	14.98	AV	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



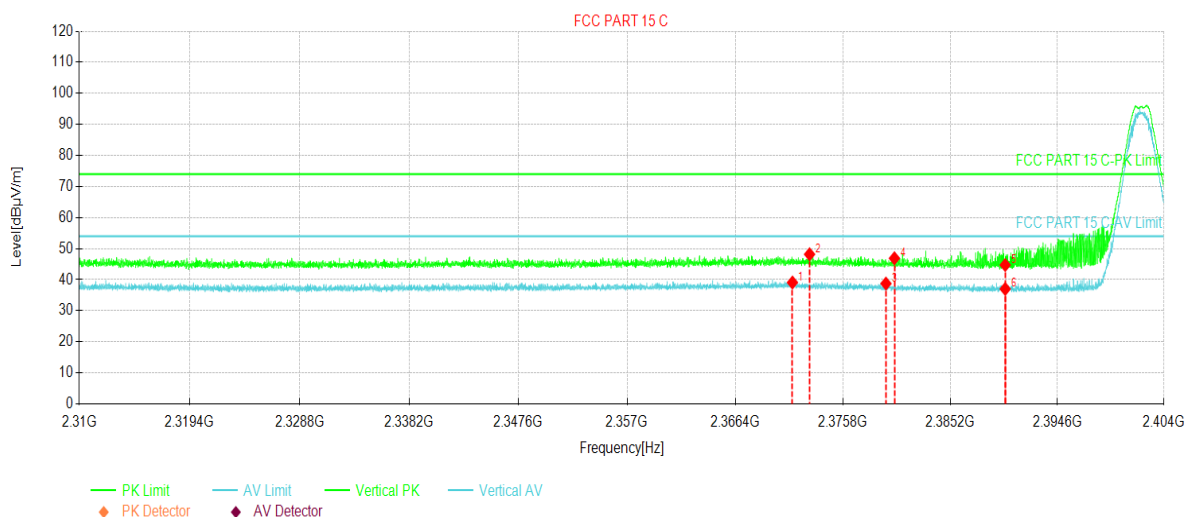
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	45.32	53.01	7.69	74.00	20.99	PK	Horizontal
2	2483.50	33.56	41.25	7.69	54.00	12.75	AV	Horizontal
3	2488.00	48.21	55.93	7.72	74.00	18.07	PK	Horizontal
4	2488.18	32.85	40.57	7.72	54.00	13.43	AV	Horizontal
5	2492.96	43.61	51.36	7.75	74.00	22.64	PK	Horizontal
6	2493.02	31.73	39.48	7.75	54.00	14.52	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

PHY: 2MHz

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

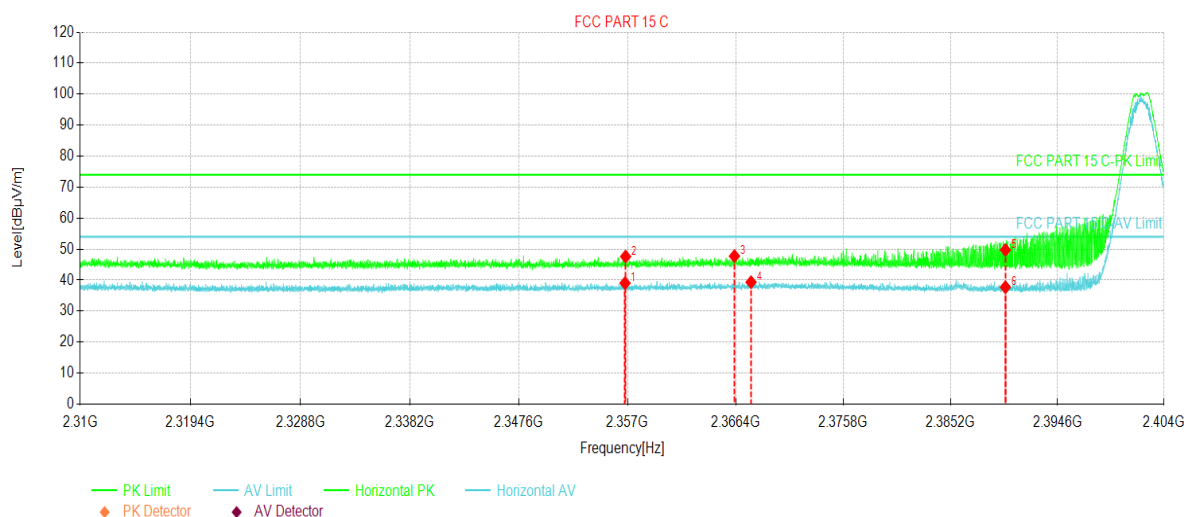


NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2371.38	32.06	39.08	7.02	54.00	14.92	AV	Vertical
2	2372.87	41.16	48.18	7.02	74.00	25.82	PK	Vertical
3	2379.54	31.71	38.75	7.04	54.00	15.25	AV	Vertical
4	2380.28	39.85	46.89	7.04	74.00	27.11	PK	Vertical
5	2390.00	37.63	44.71	7.08	74.00	29.29	PK	Vertical
6	2390.00	29.93	37.01	7.08	54.00	16.99	AV	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

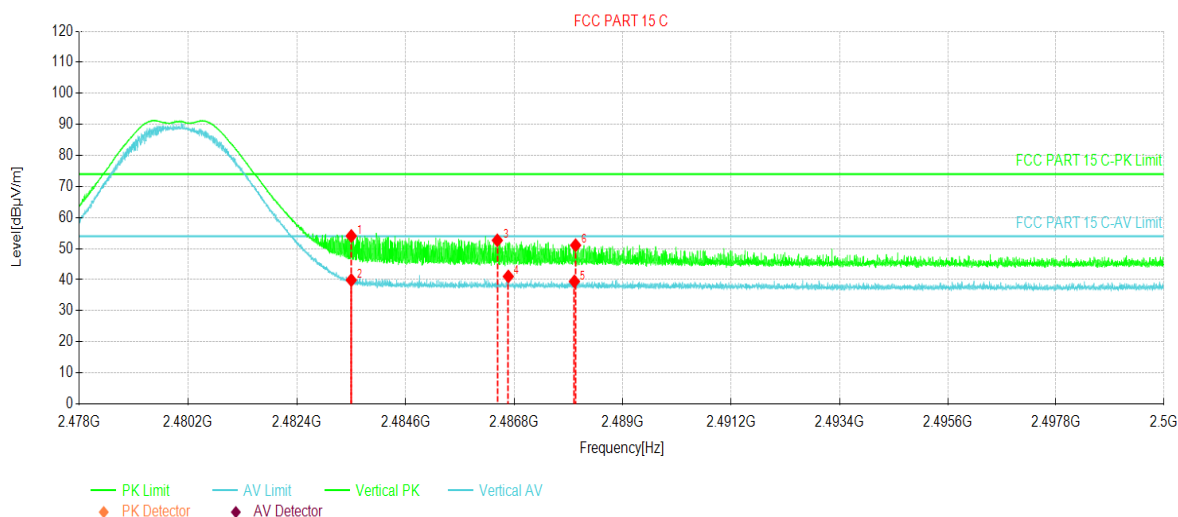


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2356.78	32.07	39.04	6.97	54.00	14.96	AV	Horizontal
2	2356.83	40.64	47.61	6.97	74.00	26.39	PK	Horizontal
3	2366.29	40.75	47.75	7.00	74.00	26.25	PK	Horizontal
4	2367.73	32.35	39.35	7.00	54.00	14.65	AV	Horizontal
5	2390.00	42.66	49.74	7.08	74.00	24.26	PK	Horizontal
6	2390.00	30.65	37.73	7.08	54.00	16.27	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

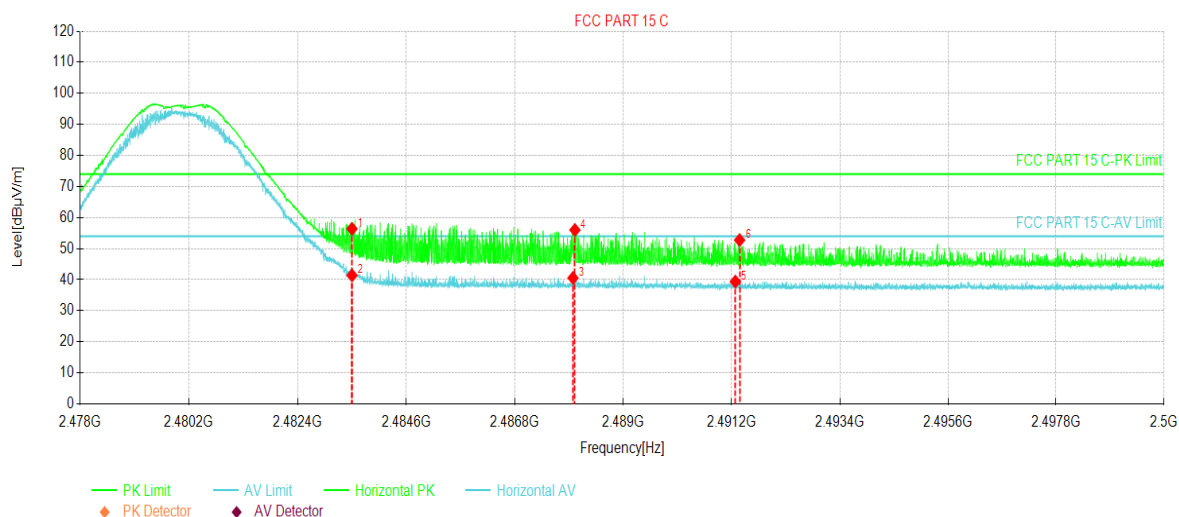


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	46.38	54.07	7.69	74.00	19.93	PK	Vertical
2	2483.50	32.17	39.86	7.69	54.00	14.14	AV	Vertical
3	2486.45	44.95	52.66	7.71	74.00	21.34	PK	Vertical
4	2486.67	33.33	41.04	7.71	54.00	12.96	AV	Vertical
5	2488.01	31.72	39.44	7.72	54.00	14.56	AV	Vertical
6	2488.04	43.36	51.08	7.72	74.00	22.92	PK	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



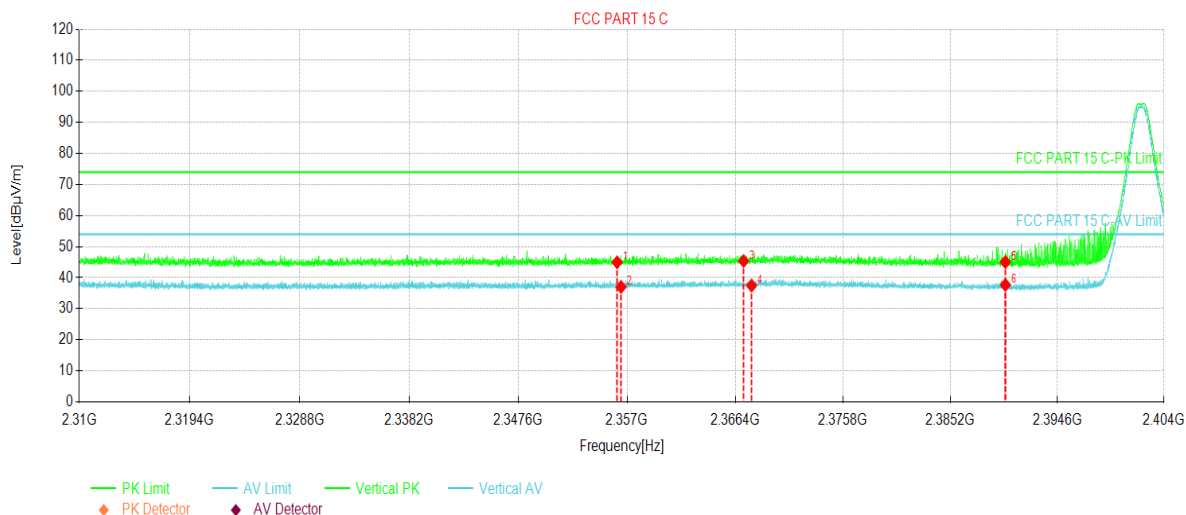
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	48.68	56.37	7.69	74.00	17.63	PK	Horizontal
2	2483.50	33.70	41.39	7.69	54.00	12.61	AV	Horizontal
3	2487.97	32.83	40.55	7.72	54.00	13.45	AV	Horizontal
4	2488.01	48.29	56.01	7.72	74.00	17.99	PK	Horizontal
5	2491.27	31.63	39.37	7.74	54.00	14.63	AV	Horizontal
6	2491.36	45.01	52.75	7.74	74.00	21.25	PK	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Coded PHY, S=2

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

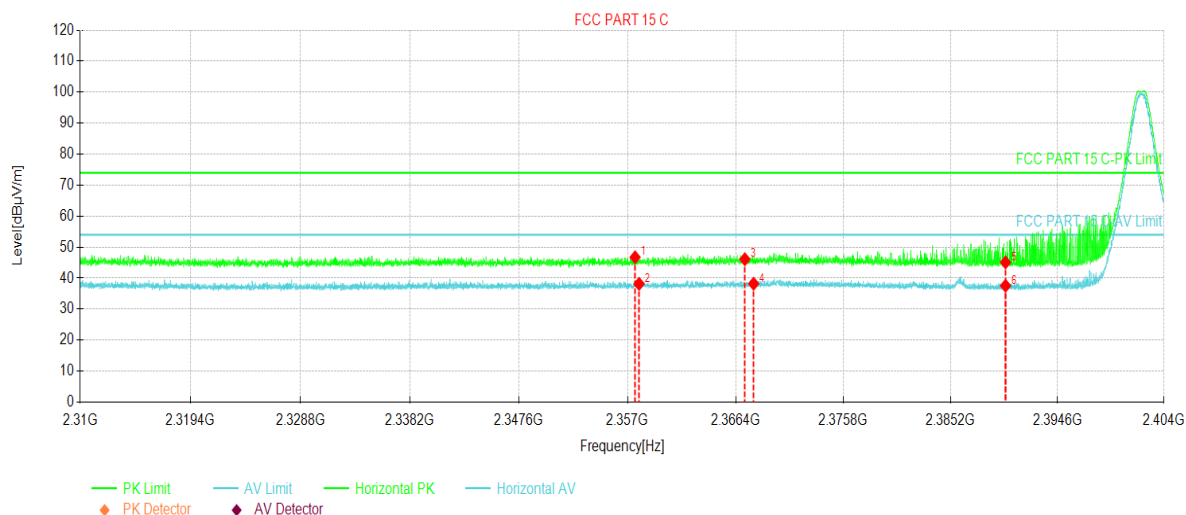


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2356.14	37.98	44.95	6.97	74.00	29.05	PK	Vertical
2	2356.48	30.06	37.03	6.97	54.00	16.97	AV	Vertical
3	2367.12	38.37	45.37	7.00	74.00	28.63	PK	Vertical
4	2367.82	30.47	37.47	7.00	54.00	16.53	AV	Vertical
5	2390.01	37.95	45.03	7.08	74.00	28.97	PK	Vertical
6	2390.01	30.58	37.66	7.08	54.00	16.34	AV	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

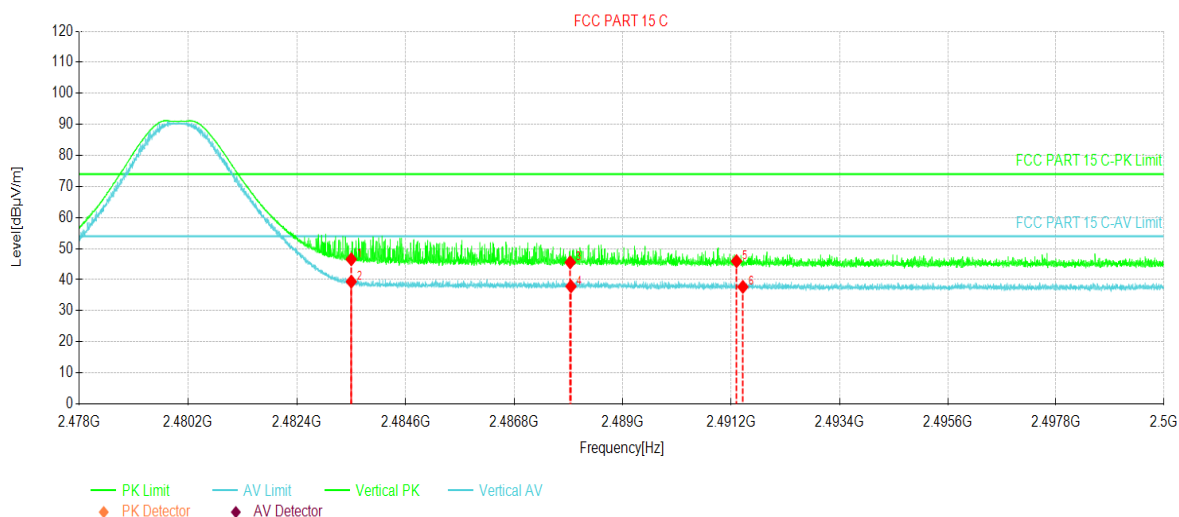


NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2357.65	39.77	46.74	6.97	74.00	27.26	PK	Horizontal
2	2358.01	31.18	38.15	6.97	54.00	15.85	AV	Horizontal
3	2367.19	39.11	46.11	7.00	74.00	27.89	PK	Horizontal
4	2367.96	31.18	38.18	7.00	54.00	15.82	AV	Horizontal
5	2390.01	38.00	45.08	7.08	74.00	28.92	PK	Horizontal
6	2390.01	30.46	37.54	7.08	54.00	16.46	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

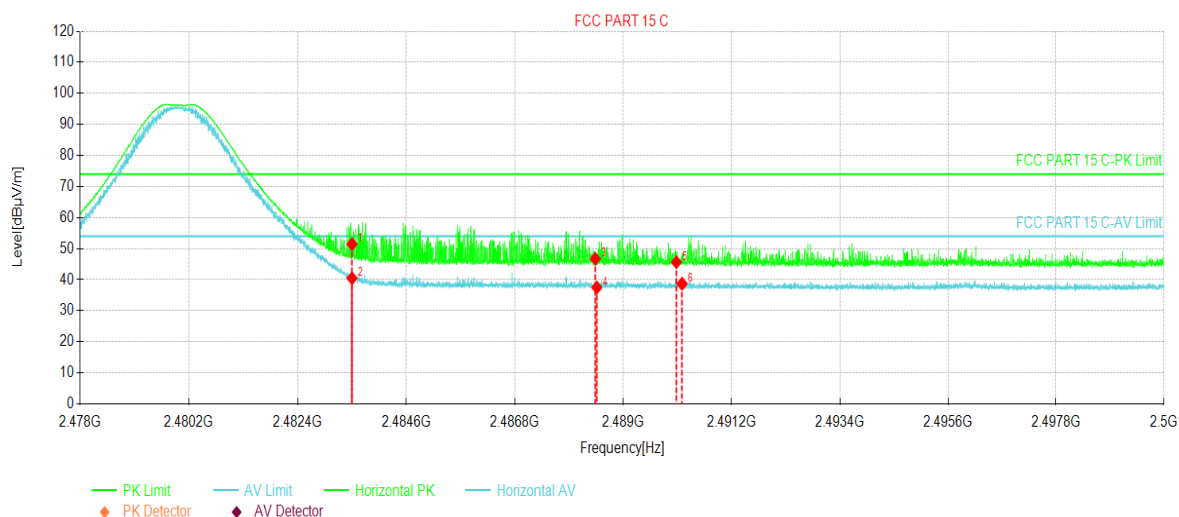


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	38.87	46.56	7.69	74.00	27.44	PK	Vertical
2	2483.50	31.68	39.37	7.69	54.00	14.63	AV	Vertical
3	2487.93	37.84	45.56	7.72	74.00	28.44	PK	Vertical
4	2487.94	30.12	37.84	7.72	54.00	16.16	AV	Vertical
5	2491.30	38.21	45.95	7.74	74.00	28.05	PK	Vertical
6	2491.43	29.94	37.68	7.74	54.00	16.32	AV	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



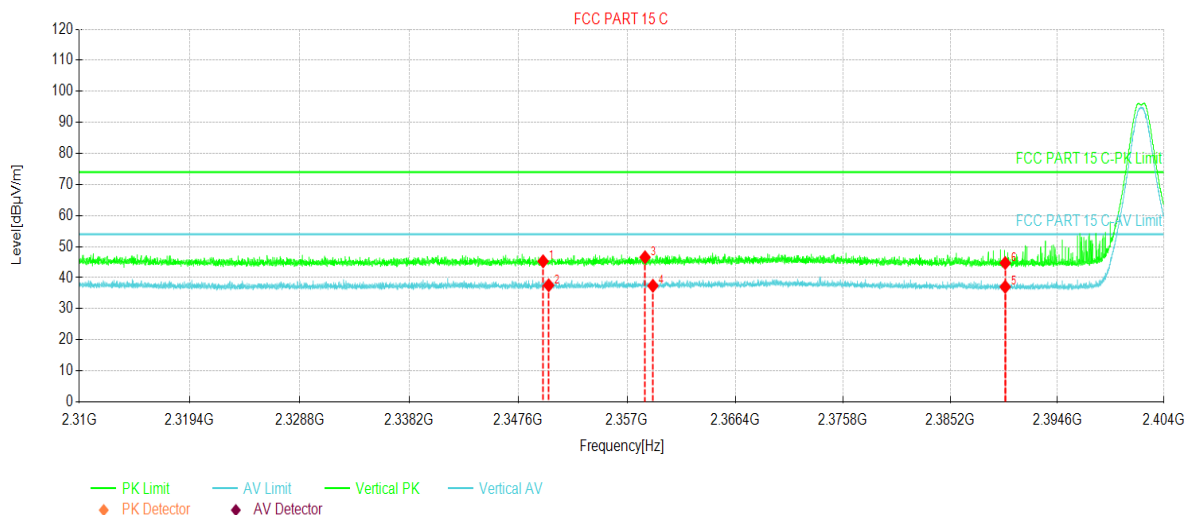
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2483.50	43.76	51.45	7.69	74.00	22.55	PK	Horizontal
2	2483.50	32.77	40.46	7.69	54.00	13.54	AV	Horizontal
3	2488.43	38.99	46.71	7.72	74.00	27.29	PK	Horizontal
4	2488.46	29.77	37.49	7.72	54.00	16.51	AV	Horizontal
5	2490.07	37.90	45.63	7.73	74.00	28.37	PK	Horizontal
6	2490.19	30.94	38.67	7.73	54.00	15.33	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Coded PHY, S=8

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

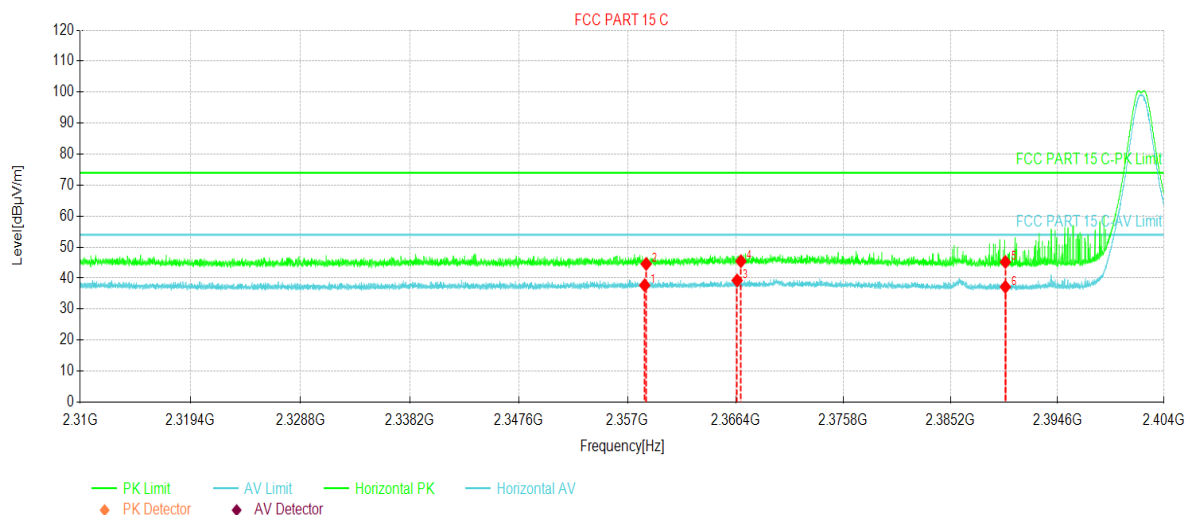


NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2349.73	38.34	45.28	6.94	74.00	28.72	PK	Vertical
2	2350.22	30.60	37.55	6.95	54.00	16.45	AV	Vertical
3	2358.56	39.61	46.58	6.97	74.00	27.42	PK	Vertical
4	2359.24	30.41	37.39	6.98	54.00	16.61	AV	Vertical
5	2390.00	29.97	37.05	7.08	54.00	16.95	AV	Vertical
6	2390.00	37.63	44.71	7.08	74.00	29.29	PK	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

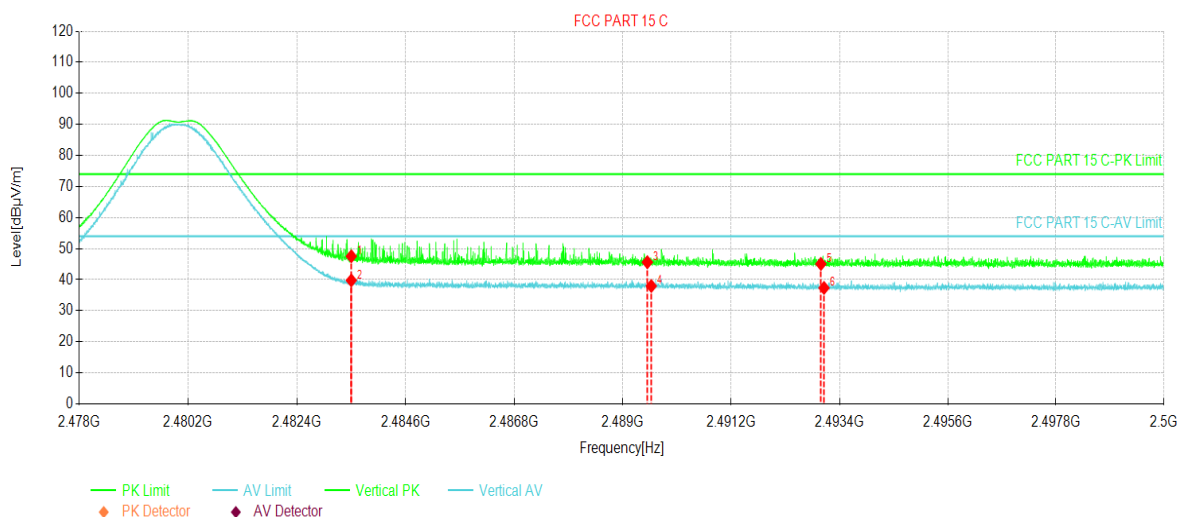


NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	2358.49	30.74	37.71	6.97	54.00	16.29	AV	Horizontal
2	2358.62	37.61	44.58	6.97	74.00	29.42	PK	Horizontal
3	2366.52	32.25	39.25	7.00	54.00	14.75	AV	Horizontal
4	2366.85	38.47	45.47	7.00	74.00	28.53	PK	Horizontal
5	2390.00	38.13	45.21	7.08	74.00	28.79	PK	Horizontal
6	2390.00	30.10	37.18	7.08	54.00	16.82	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

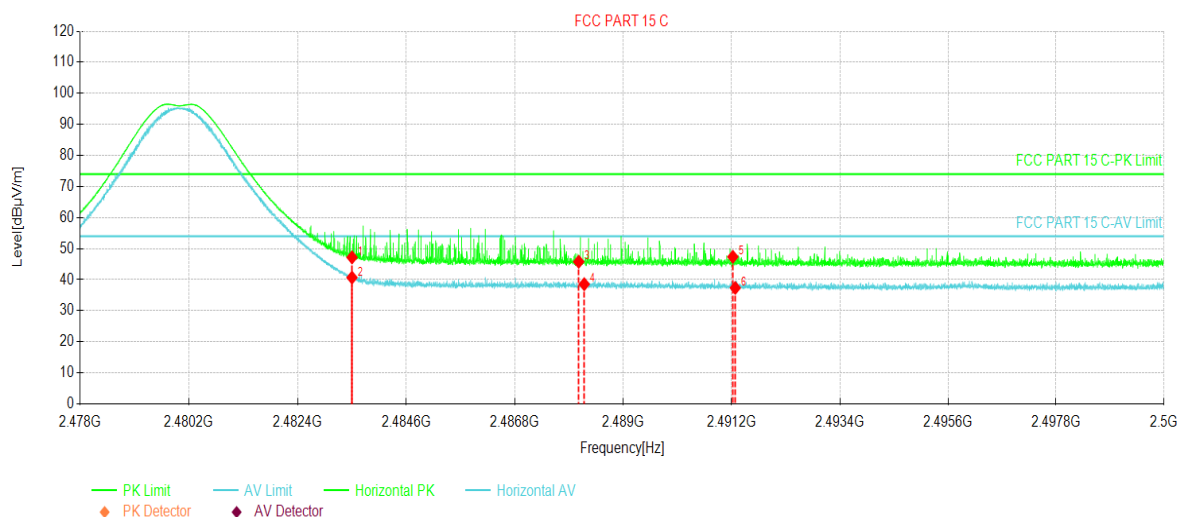


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	39.85	47.54	7.69	74.00	26.46	PK	Vertical
2	2483.50	32.08	39.77	7.69	54.00	14.23	AV	Vertical
3	2489.49	37.89	45.62	7.73	74.00	28.38	PK	Vertical
4	2489.57	30.23	37.96	7.73	54.00	16.04	AV	Vertical
5	2493.02	37.31	45.06	7.75	74.00	28.94	PK	Vertical
6	2493.08	29.59	37.34	7.75	54.00	16.66	AV	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



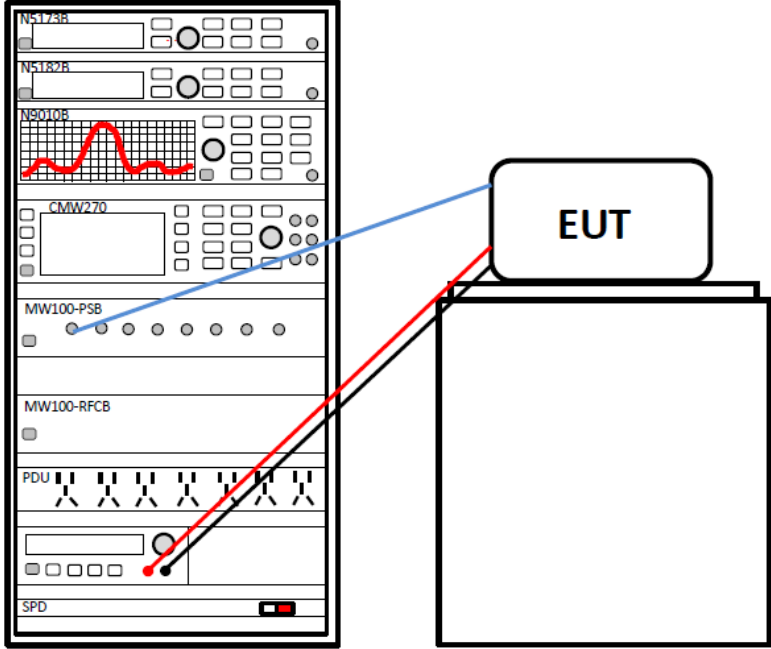
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	2483.50	39.48	47.17	7.69	74.00	26.83	PK	Horizontal
2	2483.50	32.99	40.68	7.69	54.00	13.32	AV	Horizontal
3	2488.09	38.05	45.77	7.72	74.00	28.23	PK	Horizontal
4	2488.20	30.82	38.54	7.72	54.00	15.46	AV	Horizontal
5	2491.22	39.62	47.36	7.74	74.00	26.64	PK	Horizontal
6	2491.27	29.62	37.36	7.74	54.00	16.64	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

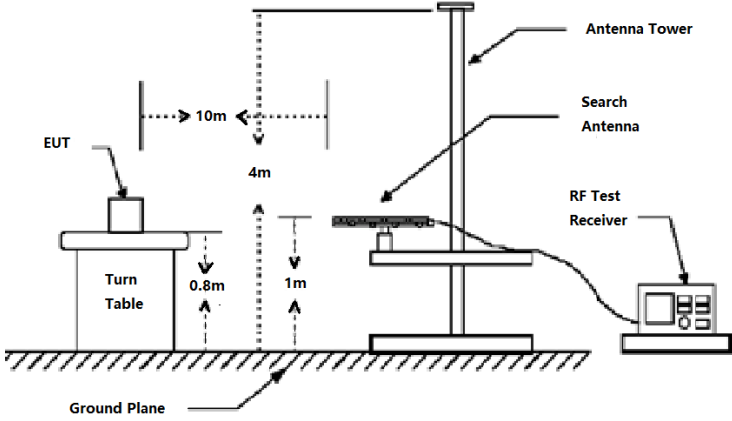
6.7 Spurious Emission

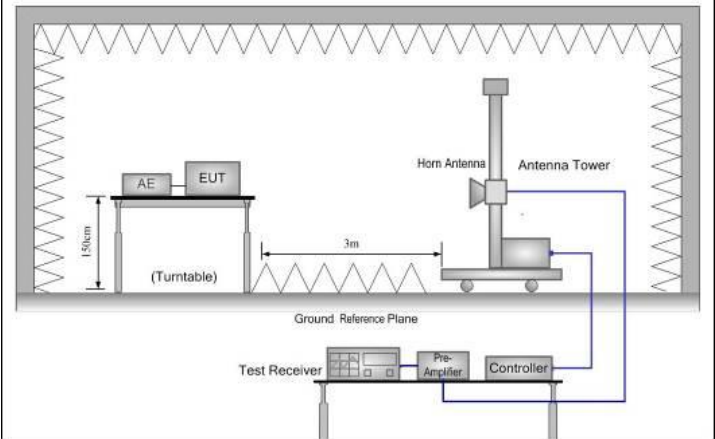
6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data: Refer to Appendix A - BLE

6.7.2 Radiated Emission Method

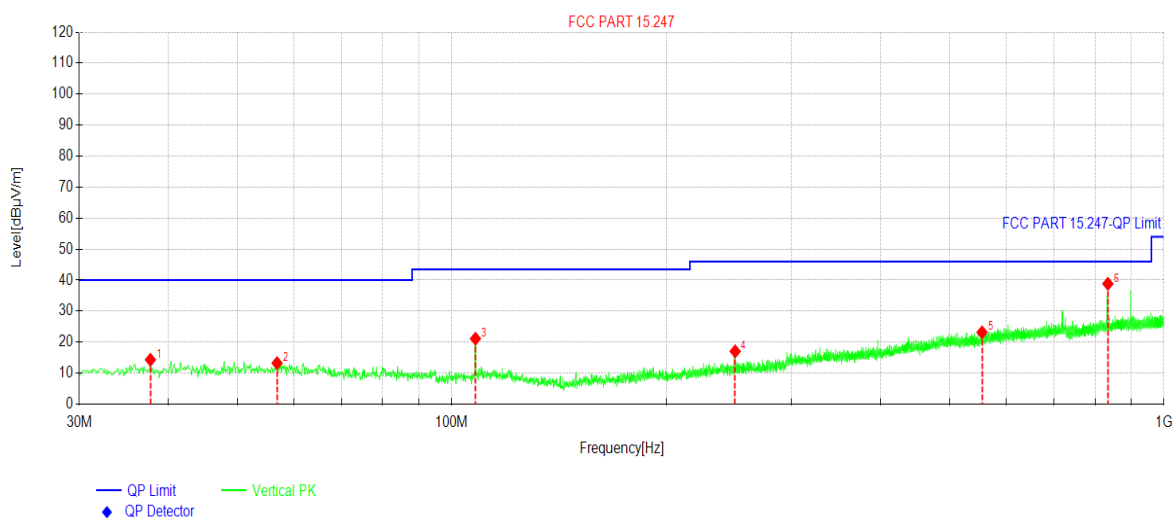
Test Requirement:	FCC Part 15 C Section 15.205 and 15.209				
Test Frequency Range:	9kHz to 25GHz				
Test Distance:	3m or 10m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak RMS	1MHz 1MHz	3MHz 3MHz	Peak Value Average Value
Limit:	Frequency		Limit (dBuV/m @10m)		Remark
	30MHz-88MHz		30.0		Quasi-peak Value
	88MHz-216MHz		33.5		Quasi-peak Value
	216MHz-960MHz		36.0		Quasi-peak Value
	960MHz-1GHz		44.0		Quasi-peak Value
	Frequency		Limit (dBuV/m @3m)		Remark
	Above 1GHz		54.0 74.0		Average Value Peak Value
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber(above 1GHz). The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters(above 1GHz) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:	Below 1GHz  Above 1GHz				

	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is lower than the limit 20dB, so only shows the data of above 30MHz in this report. 3. Pre-scan adapter 1, adapter 2 and adapter 3, found adapter 1 was worse case mode, only reflects the worst mode

Measurement Data (worst case):

Below 1GHz:

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

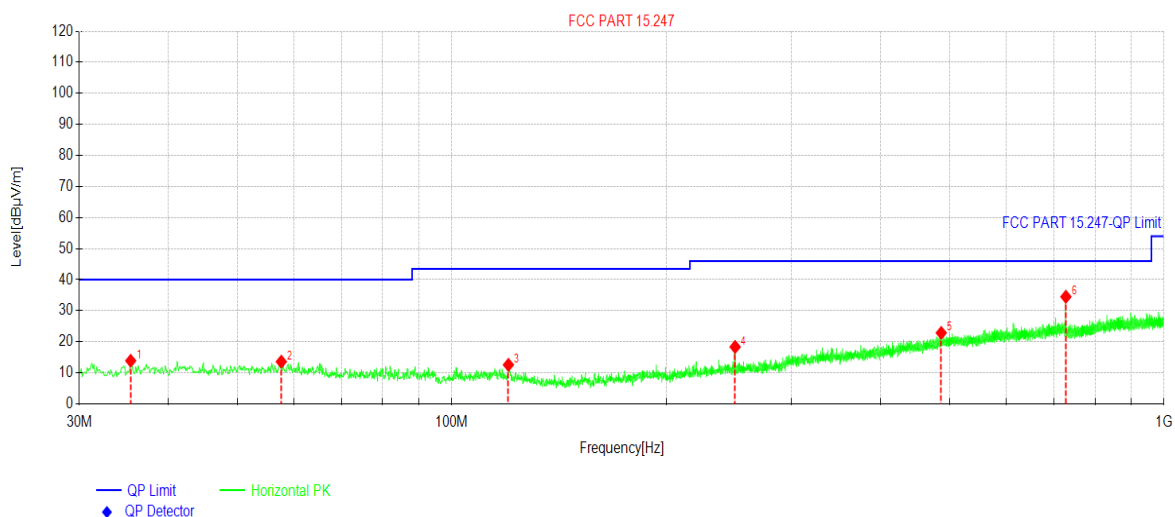


NO.	Freq. [MHz]	Reading[d BuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	37.7608	29.03	14.32	-14.71	40.00	25.68	PK	Vertical
2	56.8717	27.98	13.21	-14.77	40.00	26.79	PK	Vertical
3	107.995	37.05	21.11	-15.94	43.50	22.39	PK	Vertical
4	250.018	30.82	17.03	-13.79	46.00	28.97	PK	Vertical
5	555.307	29.86	23.16	-6.70	46.00	22.84	PK	Vertical
6	834.113	40.76	38.83	-1.93	46.00	7.17	PK	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%



NO.	Freq. [MHz]	Reading[d BuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	35.4325	28.85	13.89	-14.96	40.00	26.11	PK	Horizontal
2	57.6478	28.42	13.59	-14.83	40.00	26.41	PK	Horizontal
3	120.122	28.61	12.57	-16.04	43.50	30.93	PK	Horizontal
4	250.018	32.13	18.34	-13.79	46.00	27.66	PK	Horizontal
5	486.721	30.29	22.87	-7.42	46.00	23.13	PK	Horizontal
6	728.178	38.56	34.50	-4.06	46.00	11.50	PK	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Above 1GHz

PHY: 1MHz

Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4804.00	56.23	-9.60	46.63	74.00	27.37	Vertical
4804.00	56.15	-9.60	46.55	74.00	27.45	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4804.00	48.47	-9.60	38.87	54.00	15.13	Vertical
4804.00	48.41	-9.60	38.81	54.00	15.19	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4884.00	48.31	-9.04	39.27	74.00	34.73	Vertical
4884.00	56.58	-9.04	47.54	74.00	26.46	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4884.00	48.70	-9.04	39.66	54.00	14.34	Vertical
4884.00	48.02	-9.04	38.98	54.00	15.02	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4960.00	48.08	-8.45	39.63	74.00	34.37	Vertical
4960.00	56.19	-8.45	47.74	74.00	26.26	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4960.00	48.37	-8.45	39.92	54.00	14.08	Vertical
4960.00	48.11	-8.45	39.66	54.00	14.34	Horizontal
Remark: 1. Final Level =Receiver Read level + Factor. 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.						