



Test report No:
2640417R.706B

FCC TEST REPORT

Product Name	Barcode Scanner
Model and /or type reference	8680ic
Trademark	Honeywell
FCC ID	HD5-8680IC
Applicant's name / address	HONEYWELL INTERNATIONAL INC 9680 OLD BAILES RD FORT MILL SC 29707.USA
Test method requested, standard	47 CFR FCC Part 15 (Section 15.225) ANSI C63.10: 2020
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Reyn Chen / Supervisor 
Approved by (name / position & signature)	Well Wei / Manager 
Date of issue	2026-06-05
Report Version	V1.0
Report template No	Template_FCC 15.225-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

Test Location	Room 101, 1st floor, No.7 building, Smart Science Park Phase 5, No. 8213, Fanhua Avenue, Economic and Technological Development District, Hefei, Anhui Province, 230091, China
Date(receive sample)	Apr. 16, 2026
Date (start test)	Apr. 17, 2026
Date (finish test)	May. 08, 2026

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2640417R.706B	V1.0	Initial issue of report.	2026-06-05

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.225).
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1 General Description of the Item(s);

USED EQUIPMENT

Field Strength of Fundamental, E-field Emission/ Field Strength of Spurious/ Frequency Stability/ Emission Bandwidth (9KHz-1GHz) / AC102

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
semi-anechoic chamber	Maorui	9m*6m*6m	AC102	2023.08.23	2026.08.22	N/A	N/A
Bilog Antenna	TESEQ	CBL6112D	57867	2025.05.21	2026.05.20	N/A	N/A
Bilog Antenna	TESEQ	CBL6112D	57867	2026.05.11	2027.05.10	N/A	N/A
Loop Antenna	R&S	HFH2-Z2E	101181	2025.10.24	2026.10.23	N/A	N/A
EMI test receiver	R&S	ESR7	102753	2025.05.19	2026.05.18	V3.66SP1	
Temperature/ Humidity Meter	RTS-8S	RTS-8S	013	2025.08.29	2026.08.28	N/A	N/A
Temperature/ Humidity Meter	RTS-8S	RTS-8S	015	2025.08.25	2026.08.24	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

AC Power Line Conducted Emission / SR104

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	Firmware Version	Software Version
Shielded room	Maorui	9m*4m*4m	SR104	2023.08.23	2026.08.22	N/A	N/A
V-network	R&S	ENV216	101516	2025.05.19	2026.05.18	N/A	N/A
V-network	R&S	ENV216	101516	2026.05.10	2027.05.09	N/A	N/A
EMI test receiver	R&S	ESR3	103140	2025.05.18	2026.05.17	N/A	N/A
EMI test receiver	R&S	ESR3	103140	2026.05.08	2027.05.07	N/A	N/A
V-LISN	R&S	ENV4200	100748	2026.05.10	2027.05.09	N/A	N/A
cable	R&S	N/A	213	2026.05.10	2027.05.09	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Test item	Uncertainty
Radiated Emission(9kHz~30MHz)	9kHz~150kHz: 2.6 dB 150kHz~30MHz: 2.3 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~300MHz: 3.5 dB, 300MHz~1GHz: 3.6 dB Vertical: 30MHz~300MHz: 3.6 dB, 300MHz~1GHz: 3.5 dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name:	Barcode Scanner
Model Name:	8680ic
Trademark.:	Honeywell
FCC ID:	HD5-8680IC
Power Supply:	Input: 5Vdc 1A, Battery:3.60Vdc
Hardware Version:	N/A
Software Version:	N/A
Manufacturer:	HONEYWELL INTERNATIONAL INC
Manufacturer Address:	9680 OLD BAILES RD FORT MILL SC 29707.USA
Test Matrix/ IMEI:	#1
Wireless Specification:	NFC
Operating frequency range(s):	13.56 MHz
Type of modulation:	ASK
Antenna Type:	Loop Antenna

Remark:

As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.

2 DESCRIPTION OF TEST SETUP

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
NFC Card	N/A	N/A	N/A
software	Type / Version	Manufacturer	Supplied by
N/A	N/A	N/A	N/A

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.225	2024	Operation within the band 13.110-14.010 MHz
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Overview of results

Requirement – Test case	Basic standard(s)	Verdict	Remark
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15 Subpart C Section 15.207	PASS	Test data please refer to Appendix A
Field Strength of Fundamental, E-field Emission	FCC CFR Title 47 Part 15 Subpart C Section 15.225(a)(b)(c)	PASS	Test data please refer to Appendix B
Field Strength of Spurious	FCC CFR Title 47 Part 15 Subpart C Section 15.209 & 15.225(d)	PASS	Test data please refer to Appendix C
Emission Bandwidth	FCC CFR Title 47 Part 15 Subpart C Section 15.215(c)	PASS	Test data please refer to Appendix D
Frequency Stability	FCC CFR Title 47 Part 15 Subpart C Section 15.225(e)	PASS	Test data please refer to Appendix E
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C Section 15.203	PASS	---

Note: The radiation measurement is pre tested under X, Y, and Z axis positioning to find the worst placement for final testing.

3.3 Test Facility

Tset Location : FCC Designation Number: CN1321

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 AC Power Line Conducted Emission	VERDICT: N/A
---	---------------------

4.1.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾]	Limit: AV [dB(μV) ¹⁾]
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

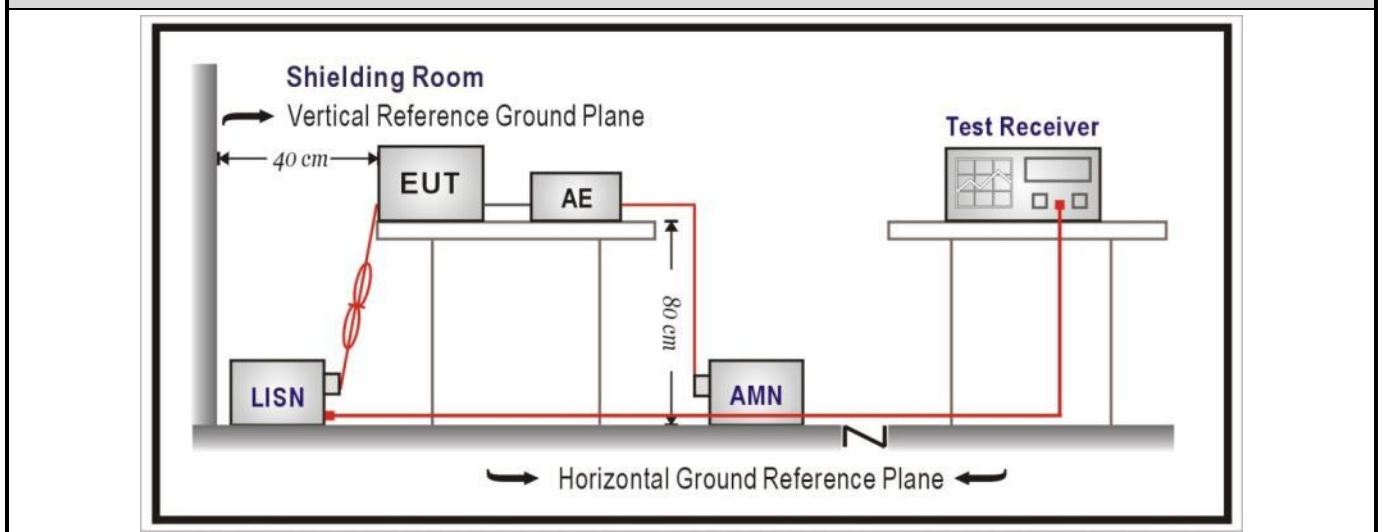
¹⁾ At the transition frequency, the lower limit applies.

²⁾ The limit decreases linearly with the logarithm of the frequency.

NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.

NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.1.2 Test Setup



4.1.3 Test Procedure

	References Rule	Chapter	Item
☐	ANSI C63.10	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.2 E-field Emission**VERDICT: PASS****4.2.1 Limit****Standard**

FCC Part 15 Subpart C Paragraph 15.225;

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

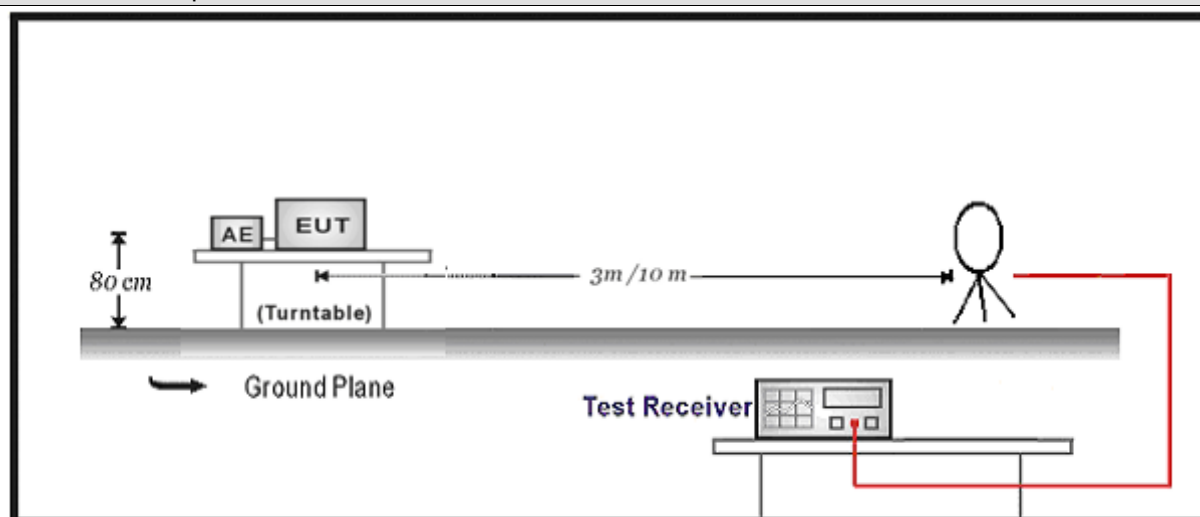
(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

4.2.2 Test Setup

Below 30MHz Test Setup:

**4.2.3 Test Procedure**

	References Rule	Chapter	Description
☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☐	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.3 Field Strength of Spurious**VERDICT: PASS****4.3.1 Limit****Standard**

FCC Part 15 Subpart C Paragraph 15. 209;

Restricted Band Emissions Limit

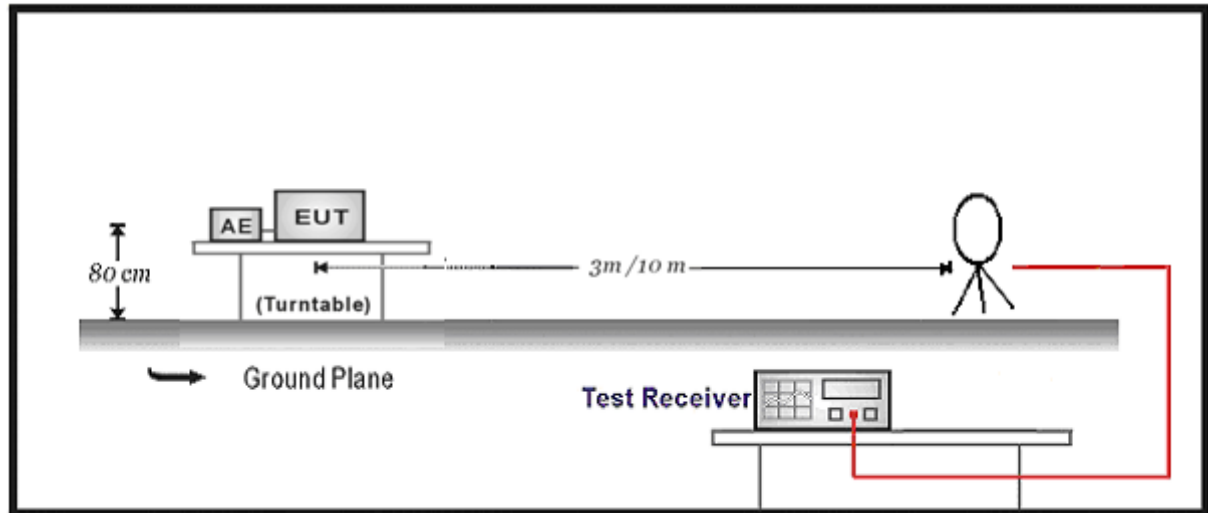
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

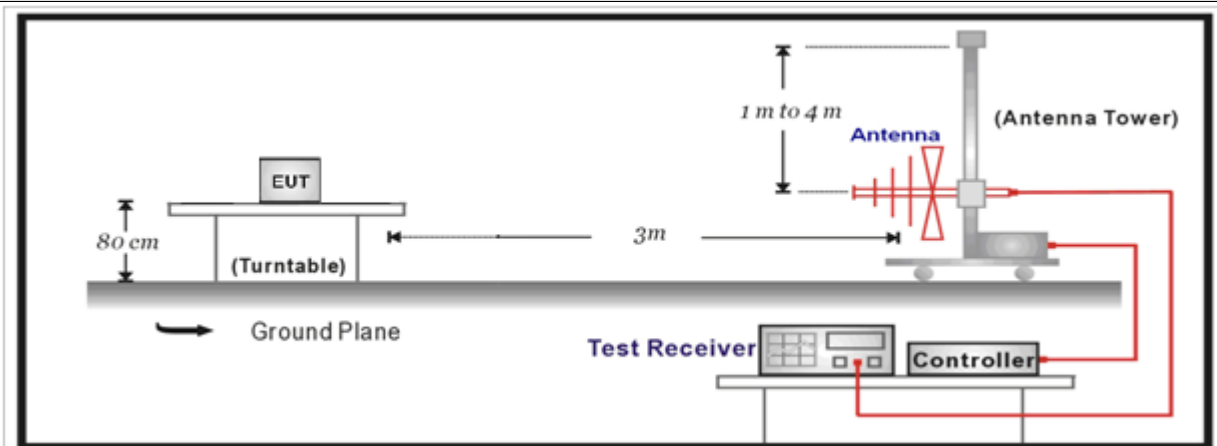
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.3.2 Test Setup

Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



4.3.3 Test Procedure

	References Rule	Chapter	Description
	☒ ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒ ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☐ ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.4 Emission bandwidth

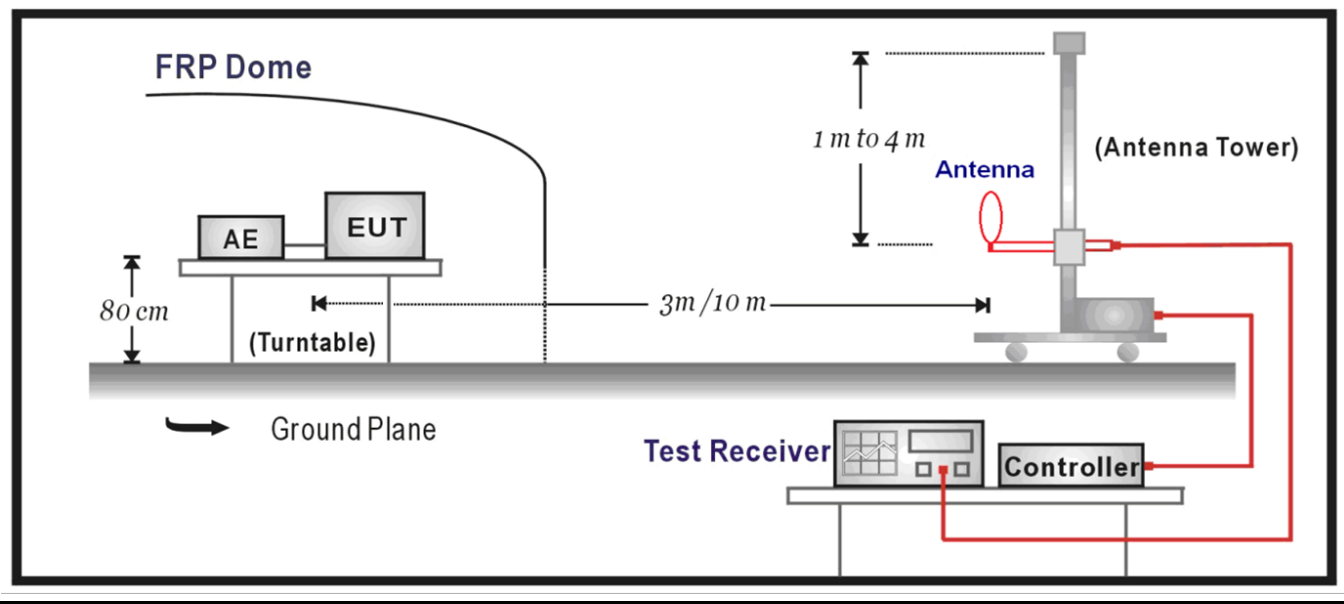
VERDICT: PASS

4.4.1 Limit

Standard FCC Part 15 Subpart C Paragraph 15.215;

Within the band.

4.4.2 Test Setup



4.4.3 Test Procedure

	Reference Rule	Chapter	Description
☒	ANSI C63.10	6.9.2	Occupied bandwidth—relative measurement procedure

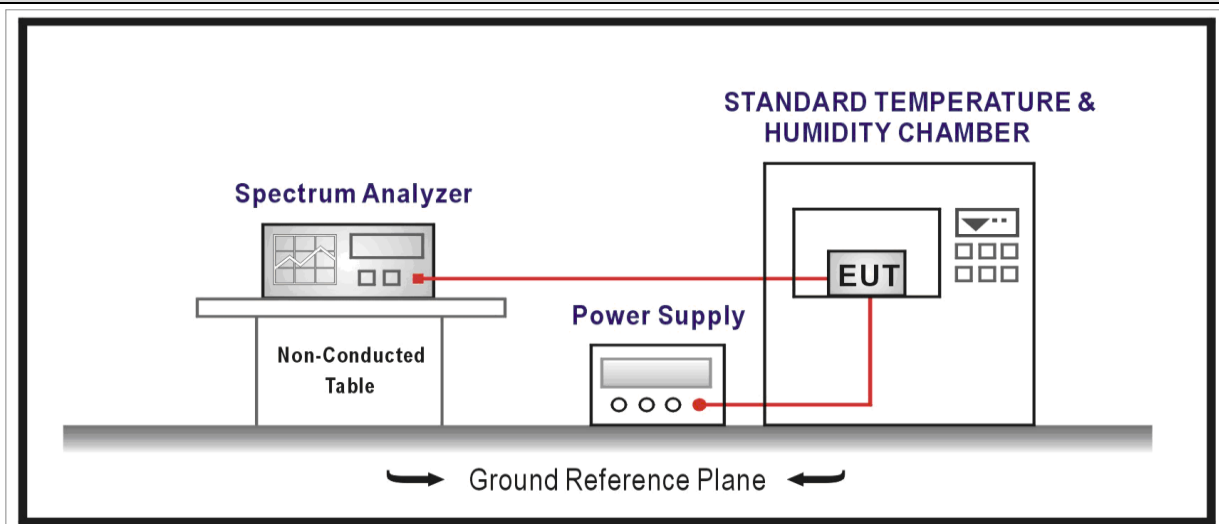
4.5 Frequency Stability

VERDICT: PASS

4.5.1 Limit:

Standard	FCC Part 15 Subpart C Paragraph 15.225(e);
☒	The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

4.5.2 Test Setup



4.5.3 Test Procedure

	References Rule	Chapter	Description
☒	ANSI C63.10	6.8	Frequency stability tests
☒	ANSI C63.10	6.8.1	Frequency stability with respect to ambient temperature
☒	ANSI C63.10	6.8.2	Frequency stability when varying supply voltage

4.6 Antenna Requirement**VERDICT: PASS****4.6.1 Limit:**

Standard	FCC Part 15 Subpart E Paragraph 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	

4.6.2 Antenna Connector Construction:

- | | |
|-------------------------------------|--|
| ☒ | The use of a permanently attached antenna |
| ☐ | The antenna use of a unique coupling to the intentional radiator |
| ☐ | The use of a nonstandard antenna jack or electrical connector |

Please refer to the attached document "Internal Photograph" to show the antenna connector.

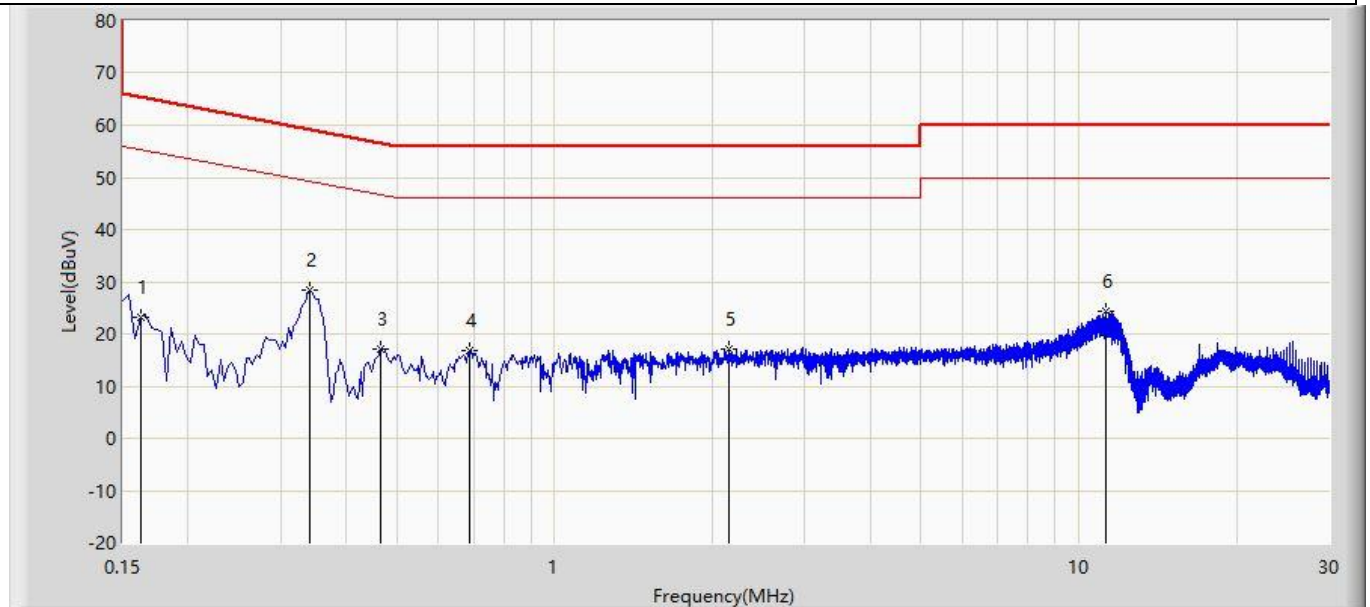
5 TEST SETUP PHOTO AND EUT PHOTO

VERDICT: PASS

Remark: The test setup photo and EUT Photo please see appendix.

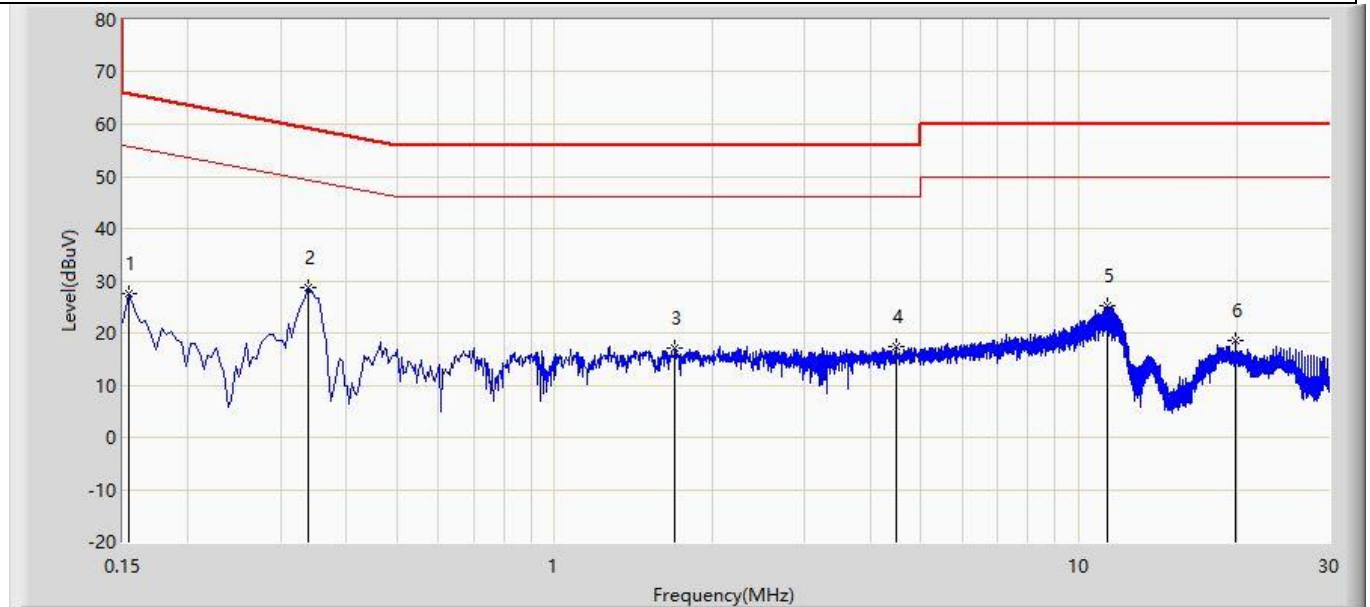
Appendix A: AC Power Line Conducted Emission

Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: NFC	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.162	23.263	13.596	-42.098	65.361	9.667	QP
2	*	0.342	28.409	18.732	-30.745	59.155	9.677	QP
3		0.466	17.115	7.417	-39.470	56.585	9.698	QP
4		0.690	16.902	7.240	-39.098	56.000	9.662	QP
5		2.146	17.066	7.296	-38.934	56.000	9.770	QP
6		11.294	24.250	14.268	-35.750	60.000	9.982	QP

Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: NFC	



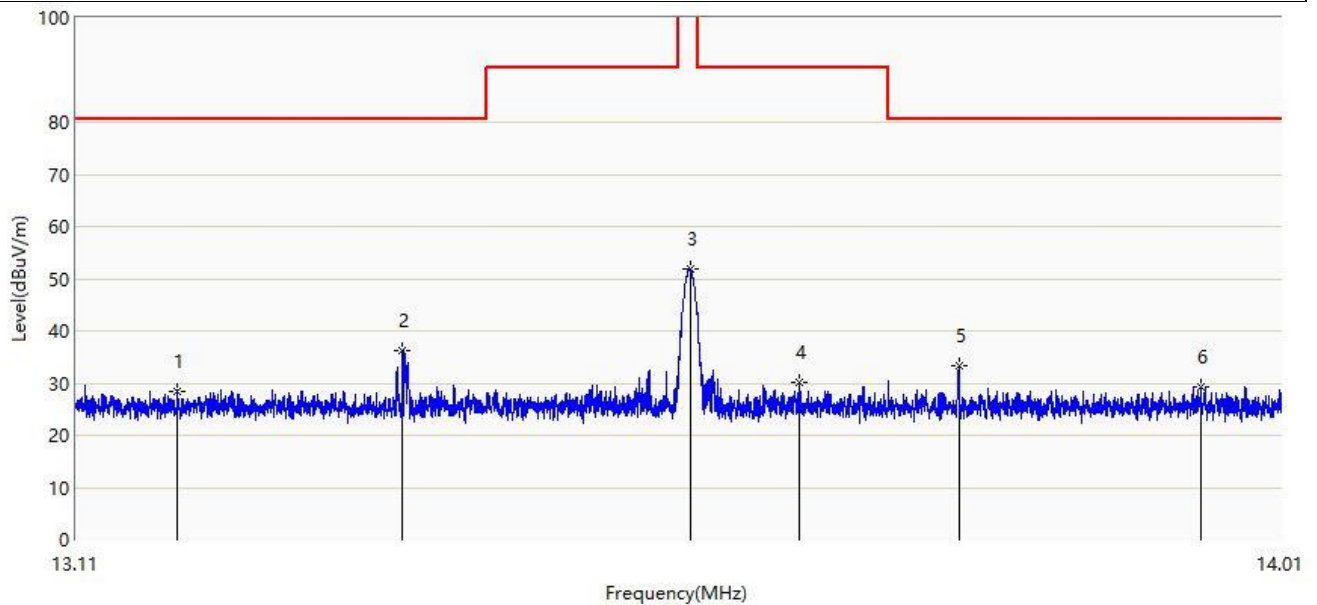
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.154	27.532	17.843	-38.249	65.781	9.689	QP
2	*	0.338	28.723	19.103	-30.529	59.252	9.620	QP
3		1.694	17.017	7.327	-38.983	56.000	9.690	QP
4		4.474	17.342	7.556	-38.658	56.000	9.786	QP
5		11.310	25.361	15.351	-34.639	60.000	10.010	QP
6		19.850	18.473	8.097	-41.527	60.000	10.376	QP

Note:

1. " * ", means this data is the worst emission level.

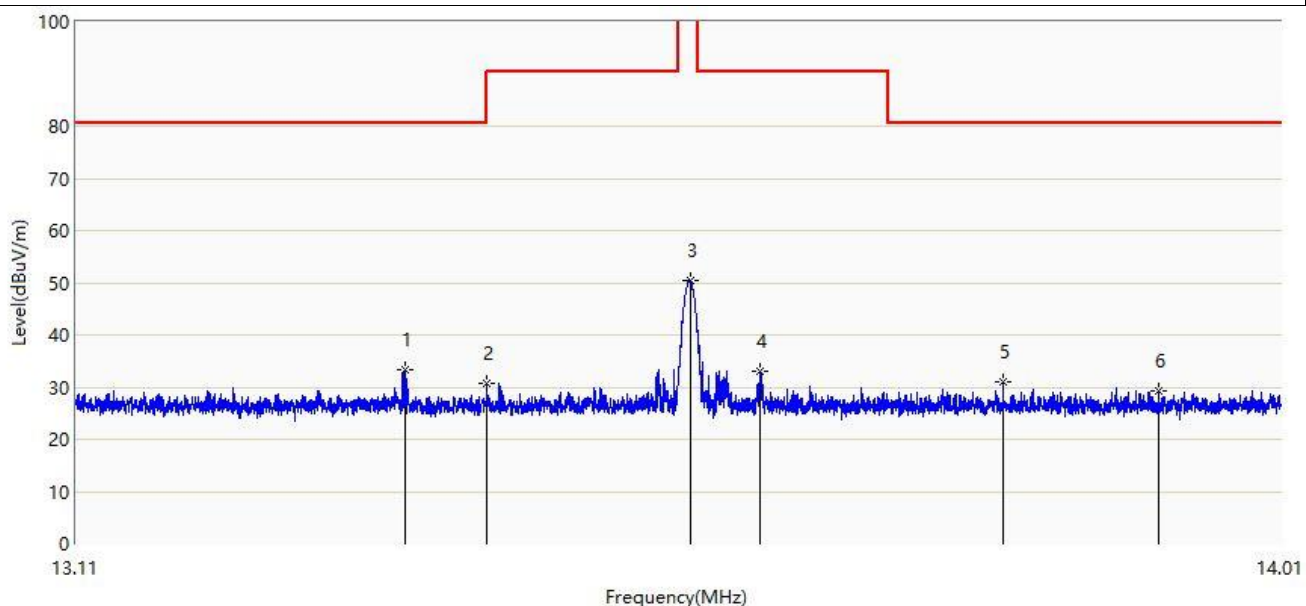
Appendix B: E-field Emission

Profile: 2640417R	Page No.: 7
Engineer: Yuliu	
Site: AC2	Time: 2026/05/10 - 14:09
Limit: FCC-15.225-E-field Emission	Margin: 0
Probe: RF(0.009-30MHz)	Polarity:X
EUT: Barcode Scanner	Power: 3.6Vdc
Note: mode1	



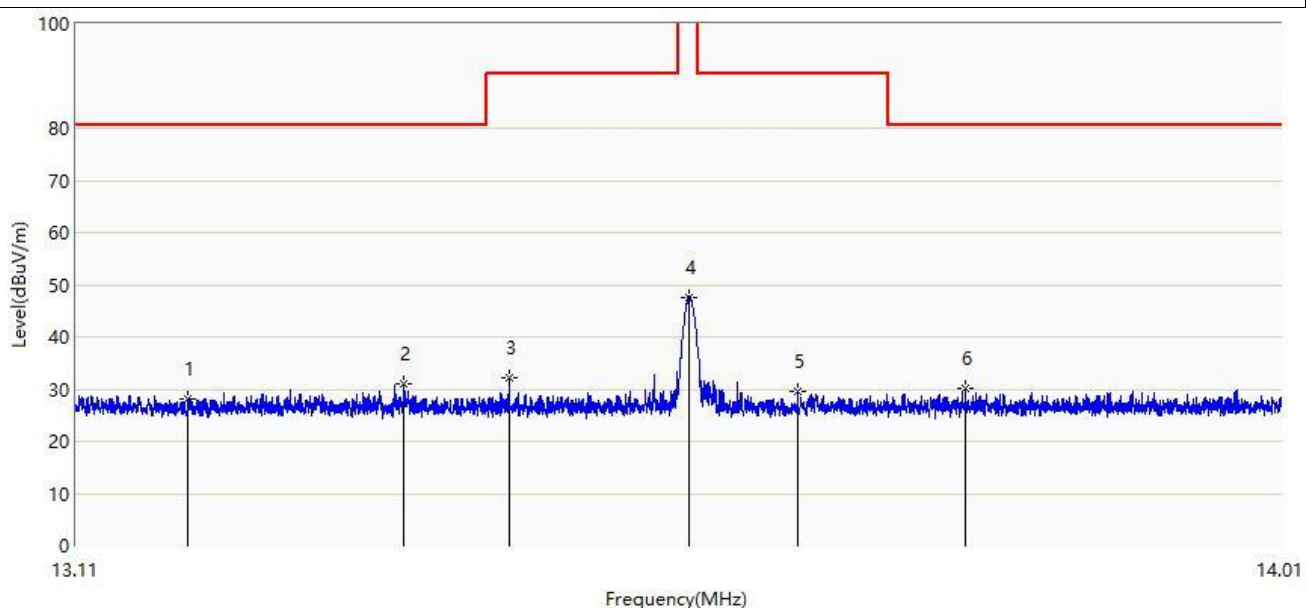
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		13.183	28.504	7.499	-51.996	80.500	21.005	QP
2	*	13.348	36.211	15.180	-44.289	80.500	21.031	QP
3		13.561	52.006	30.954	-71.994	124.000	21.052	QP
4		13.643	30.281	9.213	-60.219	90.500	21.068	QP
5		13.764	33.282	12.198	-47.218	80.500	21.084	QP
6		13.948	29.366	8.258	-51.134	80.500	21.108	QP

Profile: 2640417R	Page No.: 8
Engineer: Yuliu	
Site: AC2	Time: 2026/05/10 - 14:11
Limit: FCC-15.225-E-field Emission	Margin: 0
Probe: RF(0.009-30MHz)	Polarity:Y
EUT: Barcode Scanner	Power: 3.6Vdc
Note: mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	13.350	33.440	12.409	-47.060	80.500	21.031	QP
2		13.410	30.643	9.604	-49.857	80.500	21.039	QP
3		13.561	50.561	29.509	-73.439	124.000	21.052	QP
4		13.614	33.096	12.033	-57.404	90.500	21.063	QP
5		13.797	31.081	9.997	-49.419	80.500	21.084	QP
6		13.916	29.131	8.026	-51.369	80.500	21.105	QP

Profile: 2640417R	Page No.: 9
Engineer: Yuliu	
Site: AC2	Time: 2026/05/10 - 14:12
Limit: FCC-15.225-E-field Emission	Margin: 0
Probe: RF(0.009-30MHz)	Polarity:Z
EUT: Barcode Scanner	Power: 3.6Vdc
Note: mode1	



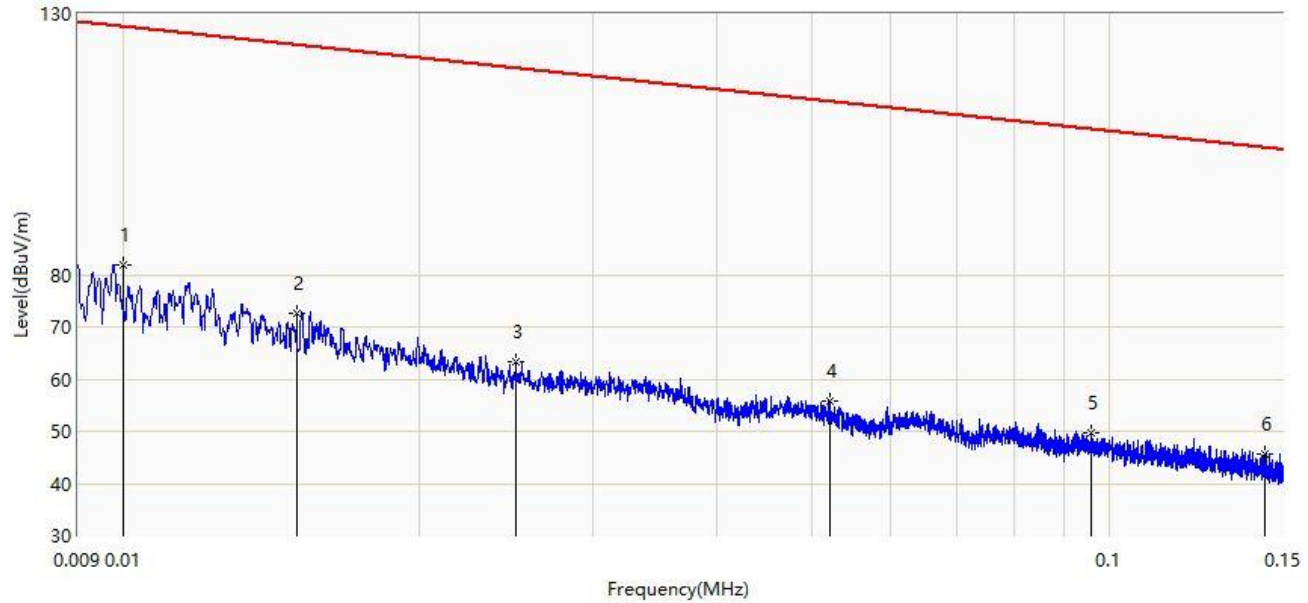
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		13.191	28.130	7.124	-52.370	80.500	21.006	QP
2	*	13.349	31.095	10.064	-49.405	80.500	21.031	QP
3		13.427	32.086	11.045	-58.414	90.500	21.041	QP
4		13.560	47.676	26.624	-76.324	124.000	21.052	QP
5		13.642	29.551	8.484	-60.949	90.500	21.068	QP
6		13.768	30.017	8.933	-50.483	80.500	21.084	QP

Note : Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Appendix C: Field Strength of Spurious

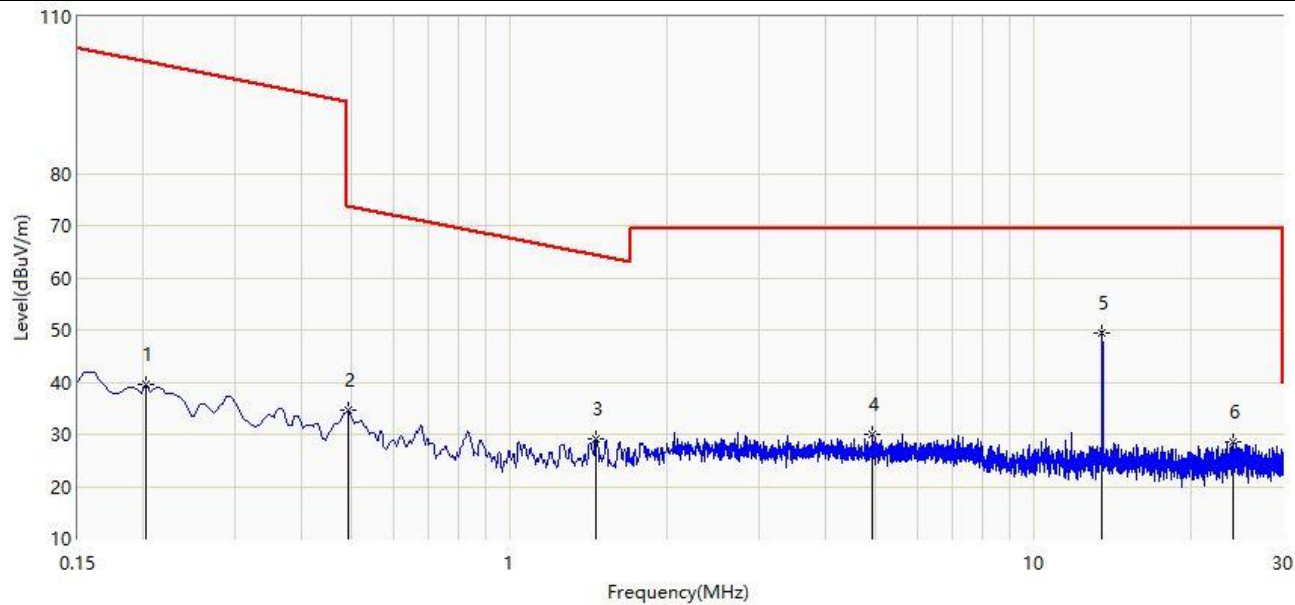
9kHz-30MHz:

Profile: 2640417R	Page No.: 1
Engineer: Yuliu	
Site: AC2	Time: 2026/05/10 - 13:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: RF(0.009-30MHz)	Polarity:X
EUT: Barcode Scanner	Power: 3.6Vdc
Note: mode1	



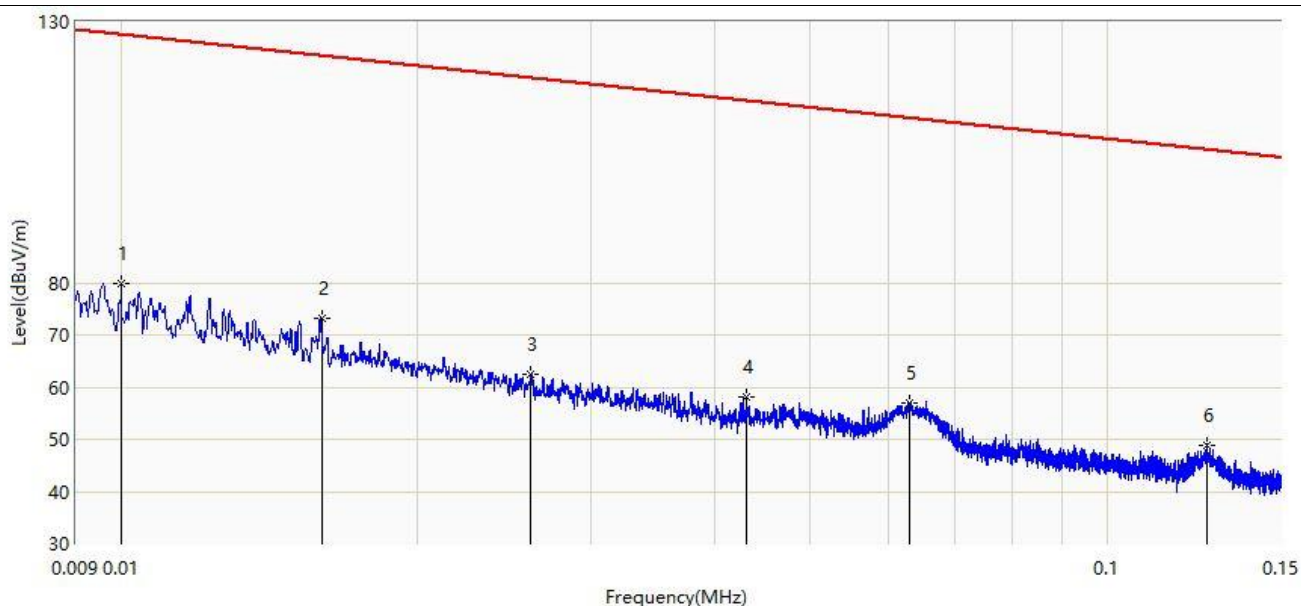
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	0.010	81.936	60.874	-45.649	127.585	21.062	PK
2		0.015	72.752	51.534	-51.314	124.065	21.218	PK
3		0.025	63.431	41.903	-56.200	119.631	21.527	PK
4		0.052	55.743	33.795	-57.530	113.273	21.948	PK
5		0.096	49.731	27.833	-58.220	107.951	21.898	PK
6		0.144	45.797	23.948	-58.634	104.431	21.849	PK

Profile: 2640417R	Page No.: 2
Engineer: Yuliu	
Site: AC2	Time: 2026/05/10 - 13:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: X
EUT: Barcode Scanner	Power: 3.6Vdc
Note: mode1	



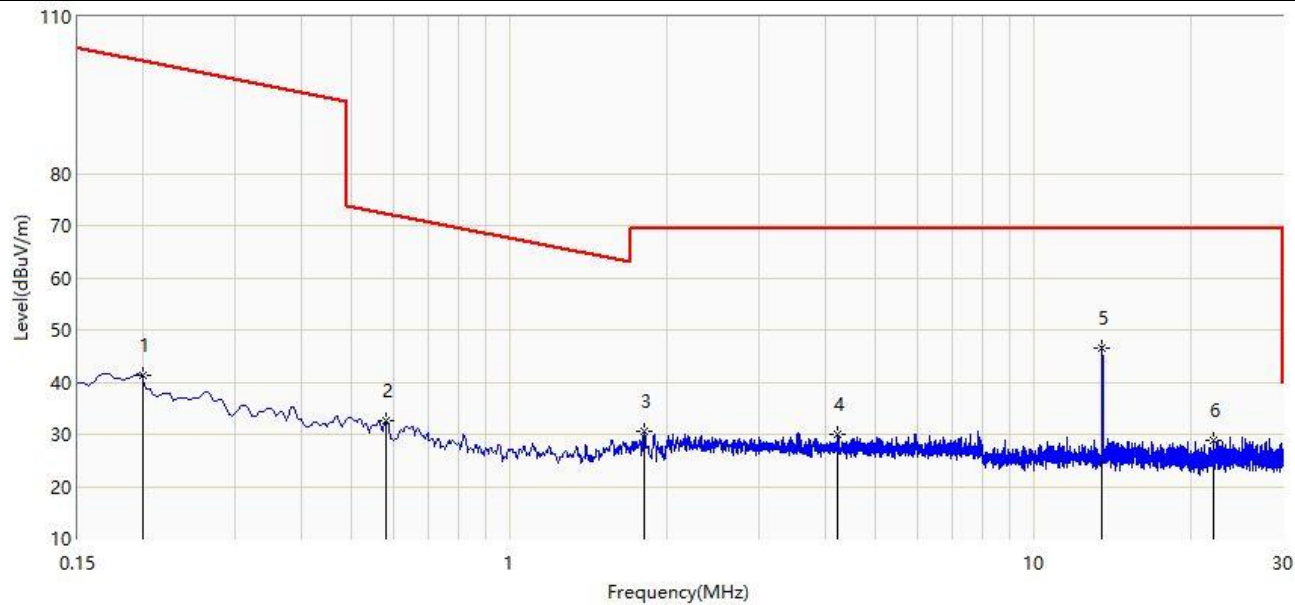
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.202	39.683	17.896	-61.810	101.493	21.787	PK
2		0.493	34.587	13.104	-39.160	73.747	21.483	PK
3		1.460	29.102	8.691	-35.242	64.344	20.411	PK
4		4.945	30.090	9.502	-39.410	69.500	20.588	PK
5	*	13.560	49.404	28.352	-20.096	69.500	21.052	PK
6		24.067	28.553	7.542	-40.947	69.500	21.012	PK

Profile: 2640417R	Page No.: 3
Engineer: Yuliu	
Site: AC2	Time: 2026/05/10 - 13:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Y
EUT: Barcode Scanner	Power: 3.6Vdc
Note: mode1	



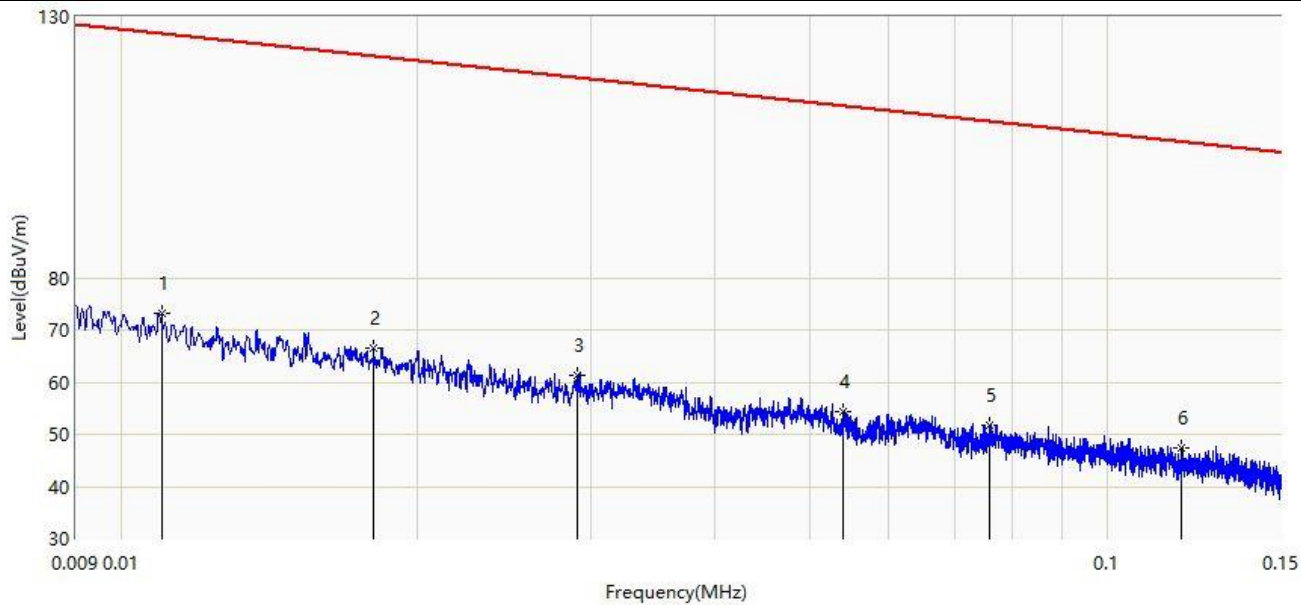
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	0.010	79.828	58.766	-47.757	127.585	21.062	PK
2		0.016	73.149	51.900	-50.357	123.505	21.248	PK
3		0.026	62.354	40.795	-56.936	119.290	21.559	PK
4		0.043	58.237	36.279	-56.686	114.923	21.958	PK
5		0.063	56.882	34.946	-54.725	111.607	21.936	PK
6		0.126	48.851	26.987	-56.739	105.590	21.864	PK

Profile: 2640417R	Page No.: 4
Engineer: Yuliu	
Site: AC2	Time: 2026/05/10 - 14:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: RF(0.009-30MHz)	Polarity:Y
EUT: Barcode Scanner	Power: 3.6Vdc
Note: mode1	



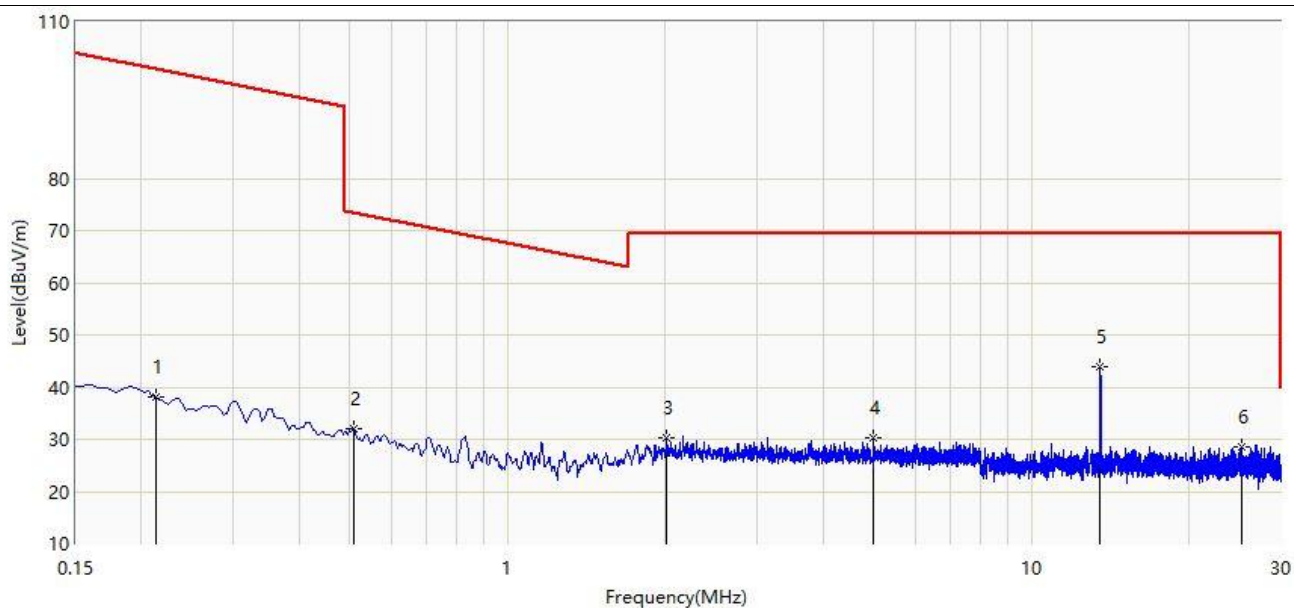
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.199	41.320	19.532	-60.302	101.623	21.788	PK
2		0.583	32.486	11.270	-39.809	72.295	21.215	PK
3		1.807	30.564	9.815	-38.936	69.500	20.749	PK
4		4.243	29.969	9.296	-39.531	69.500	20.673	PK
5	*	13.560	46.492	25.440	-23.008	69.500	21.052	PK
6		22.153	28.799	8.127	-40.701	69.500	20.672	PK

Profile: 2640417R	Page No.: 5
Engineer: Yuliu	
Site: AC2	Time: 2026/05/10 - 14:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Z
EUT: Barcode Scanner	Power: 3.6Vdc
Note: mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	0.011	73.184	52.091	-53.573	126.758	21.094	PK
2		0.018	66.631	45.320	-55.852	122.483	21.311	PK
3		0.029	61.260	39.608	-57.082	118.342	21.652	PK
4		0.054	54.415	32.469	-58.531	112.946	21.946	PK
5		0.076	51.679	29.758	-58.299	109.979	21.922	PK
6		0.119	47.316	25.444	-58.771	106.086	21.872	PK

Profile: 2640417R	Page No.: 6
Engineer: Yuliu	
Site: AC2	Time: 2026/05/10 - 14:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Z
EUT: Barcode Scanner	Power: 3.6Vdc
Note: mode1	



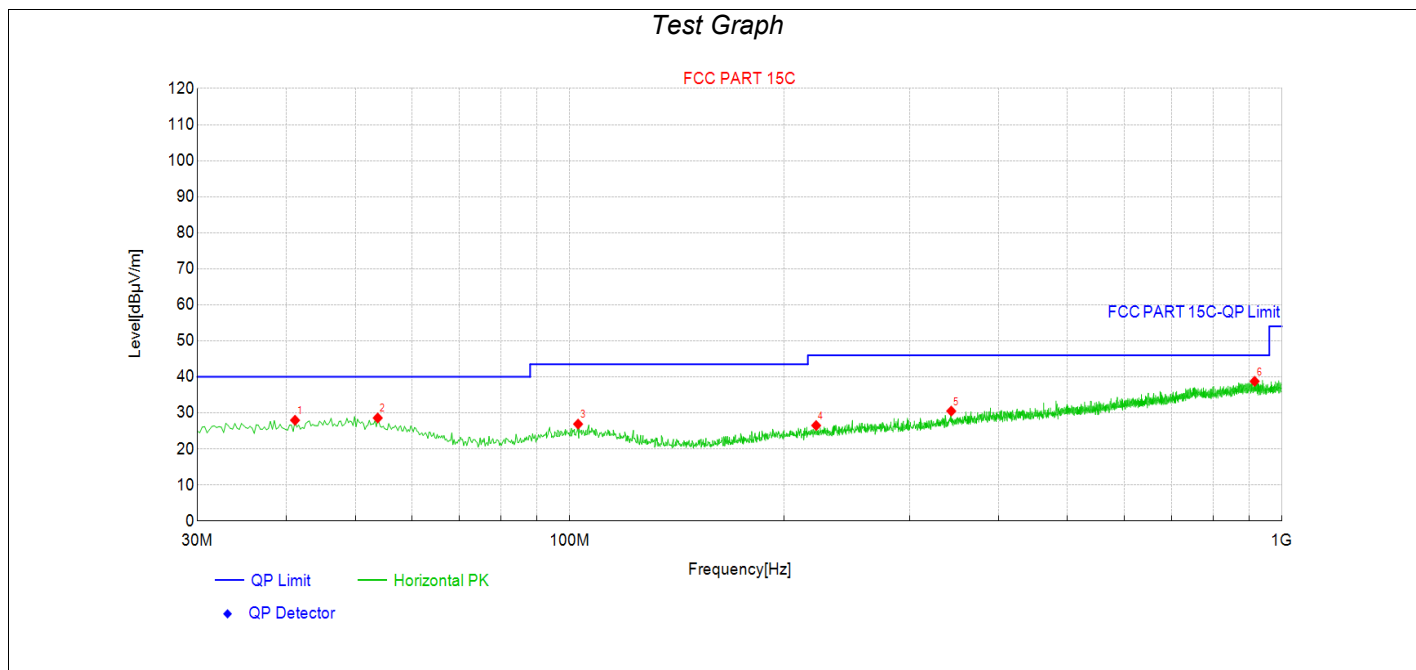
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.213	38.119	16.337	-62.914	101.032	21.782	PK
2		0.508	31.956	10.510	-41.532	73.488	21.446	PK
3		2.016	30.178	9.231	-39.322	69.500	20.947	PK
4		5.008	30.268	9.679	-39.232	69.500	20.589	PK
5	*	13.560	43.894	22.842	-25.606	69.500	21.052	PK
6		25.161	28.620	7.462	-40.880	69.500	21.158	PK

Note 1. Mark 5 is the fundamental emission.

2. Except Main frequency, others are noise floor.

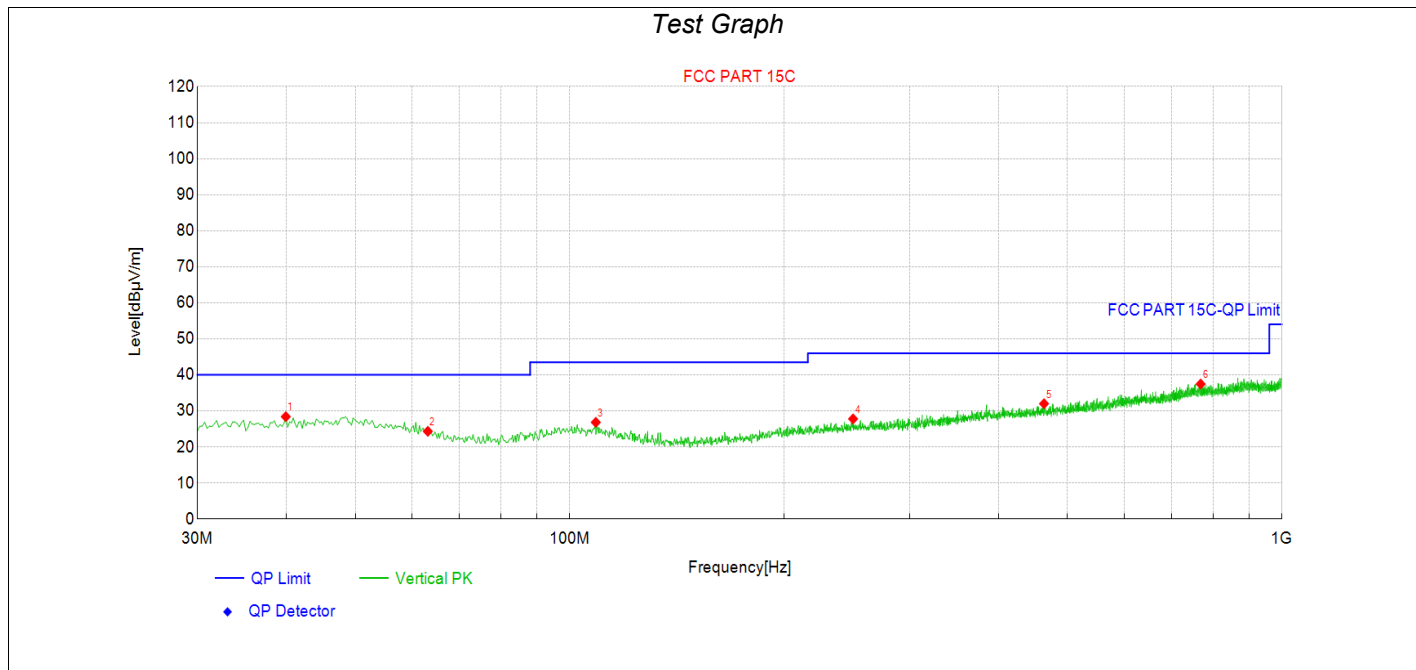
3. " * ", means this data is the worst emission level.

4. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

30MHz-1GHz:**Operating**

Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	41.16	13.9	27.97	14.030	40.00	12.03	PK	Horizo	PASS
2	53.77	14.5	28.61	14.150	40.00	11.39	PK	Horizo	PASS
3	102.75	14.5	26.91	12.460	43.50	16.59	PK	Horizo	PASS
4	221.82	14.1	26.51	12.400	46.00	19.49	PK	Horizo	PASS
5	343.31	15.3	30.51	15.240	46.00	15.49	PK	Horizo	PASS
6	915.37	15.8	38.77	22.990	46.00	7.23	PK	Horizo	PASS

Operating



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	39.94	14.6	28.40	13.850	40.00	11.60	PK	Vertic	PASS
2	63.22	12.4	24.34	11.920	40.00	15.66	PK	Vertic	PASS
3	108.81	14.6	26.84	12.250	43.50	16.66	PK	Vertic	PASS
4	249.95	14.6	27.79	13.230	46.00	18.21	PK	Vertic	PASS
5	463.35	15.1	32.01	16.920	46.00	13.99	PK	Vertic	PASS
6	768.90	15.9	37.47	21.550	46.00	8.53	PK	Vertic	PASS

Note:

1. All Readings below 1GHz are PK, PK as an alternative to CISPR quasi-peak measurements or average measurements.
2. Level=Reading+Factor.

Appendix D: Emission Bandwidth

Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Frequency Range Limit (MHz)	Result
13.56	1.227	2.889	13.553 ~ 13.567	Pass



Appendix E: Frequency Stability

Frequency Stability under Temperature at 0min			
Temperature Interval (°C)	Test Frequency (MHz)	Deviation (ppm)	Limit (ppm)
-20	13.56	33.15	±100
-10	13.56	33.33	±100
0	13.56	34.26	±100
10	13.56	34.12	±100
20	13.56	34.22	±100
30	13.56	34.29	±100
40	13.56	34.96	±100
50	13.56	35.21	±100
Frequency Stability under Temperature at 2min			
Temperature Interval (°C)	Test Frequency (MHz)	Deviation (ppm)	Limit (ppm)
-20	13.56	35.29	±100
-10	13.56	36.66	±100
0	13.56	35.21	±100
10	13.56	35.35	±100
20	13.56	36.26	±100
30	13.56	35.77	±100
40	13.56	35.62	±100
50	13.56	35.15	±100
Frequency Stability under Temperature at 5min			
Temperature Interval (°C)	Test Frequency (MHz)	Deviation (ppm)	Limit (ppm)
-20	13.56	35.52	±100
-10	13.56	35.22	±100
0	13.56	35.79	±100
10	13.56	35.21	±100
20	13.56	35.76	±100
30	13.56	36.79	±100
40	13.56	36.72	±100
50	13.56	36.66	±100
Frequency Stability under Temperature at 10min			
Temperature Interval (°C)	Test Frequency (MHz)	Deviation	Limit

		(ppm)	(ppm)
-20	13.56	37.62	±100
-10	13.56	37.69	±100
0	13.56	38.52	±100
10	13.56	38.66	±100
20	13.56	38.69	±100
30	13.56	38.92	±100
40	13.56	38.51	±100
50	13.56	38.22	±100
Frequency Stability under Voltage			
DC Voltage (V)	Test Frequency (MHz)	Deviation (ppm)	Limit (ppm)
3.60	13.56	34.22	±100
3.87	13.56	34.72	±100
4.40	13.56	34.91	±100

_____ The End _____