



Radio Test Report

Report No.: STS2604329W04

Issued for

Shenzhen Ipetmon Creative Technology Co., Ltd.

101, No. 93 Boguang Second Road, Shangcun Community,
Gongming Street, Guangming District, Shenzhen, China

Product Name: RFID Pet Feeder

Brand Name: Ipetmon

Model Name: PTM-90A1

Series Model(s): MS-R100

FCC ID: 2A4A7-MS-R100

Test Standards: FCC Part 15 Subpart C

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name.....: Shenzhen Ipetmon Creative Technology Co., Ltd.
Address.....: 101, No. 93 Boguang Second Road, Shangcun Community,
Gongming Street, Guangming District, Shenzhen, China
Manufacturer's Name.....: Shenzhen Ipetmon Creative Technology Co., Ltd.
Address.....: 101, No. 93 Boguang Second Road, Shangcun Community,
Gongming Street, Guangming District, Shenzhen, China

Product Description

Product Name.....: RFID Pet Feeder
Brand.....: Ipetmon
Model Number.....: PTM-90A1
Series Model(s).....: MS-R100

Test Standards.....: FCC Part 15 Subpart C

Test Procedure.....: ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test.....:

Date of receipt of test item.....: 1 Apr. 2026

Date (s) of performance of tests.: 1 Apr. 2026 ~ 10 Apr. 2026

Date of Issue.....: 10 Apr. 2026

Test Result.....: **Pass**

Testing Engineer : _____

Aaron Bu

(Aaron Bu)

Technical Manager : _____

Skylar Li

(Skylar Li)

Authorized Signatory : _____

Bovey Yang

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	10 Apr. 2026	STS2604329W04	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.209(a)	Radiated emission, Spurious Emission	PASS	
2.1049	20 dB Bandwidth	PASS	

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.755\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.874\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.18\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.90\text{dB}$
6	All emissions, radiated >6G	$\pm 5.24\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.19\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.53\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.5\%$
10	Power Spectral Density, conducted	$\pm 1.245\text{dB}$
11	Duty Cycle	$\pm 3.2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	RFID Pet Feeder
Brand	Ipetmon
Model Number	PTM-90A1
Series Model(s)	MS-R100
Model Difference	All models are identical except for the model name, the test model is PTM-90A1.
Equipemnt Category	Non-ISM frequency
Antenna Type	Internal antenna
Operating frequency	125 kHz, 134 kHz
Modulation Type	ASK
Power Rating	DC 5V from adapter
Adapter	Model: DCT10W050200US-C1 Input: 100-240V~ 50/60Hz 0.3A Output: 5V ---2A
Battery	N/A
Wireless charging power	N/A
Hardware version number	N/A
Software version number	N/A
Connecting I/O Port(s)	Please refer to the Note 1.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.



2.2 DESCRIPTION OF THE TEST MODES

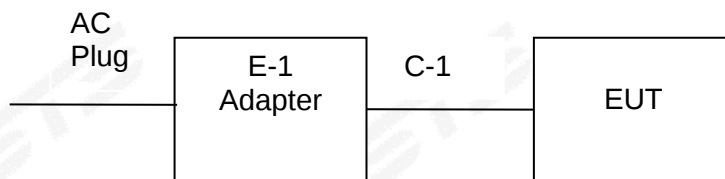
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

Pretest Mode	Description
Mode 1	TX Mode(125KHz)
Mode 2	TX Mode(134KHz)

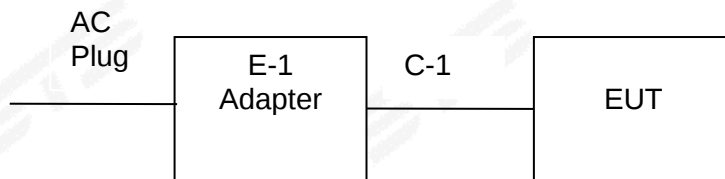
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Radiated Spurious Emission Test



Conducted Emission Test





2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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	Mfr/Brand	Model/Type No.	Note
E-1	Adapter	N/A	DCT10W050200US-C1	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.8m	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2026.02.04	2027.02.03
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limtter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2026.02.04	2027.02.03
Power detector group	Keysight	NW2021031	N/A	2025.09.23	2026.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2026.02.04	2027.02.03
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Test SW	MW	MTS 8310_2.0.0.0			



3. CONDUCTED EMISSION TEST RESULT (SECTION 15.207)

3.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of "*" marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

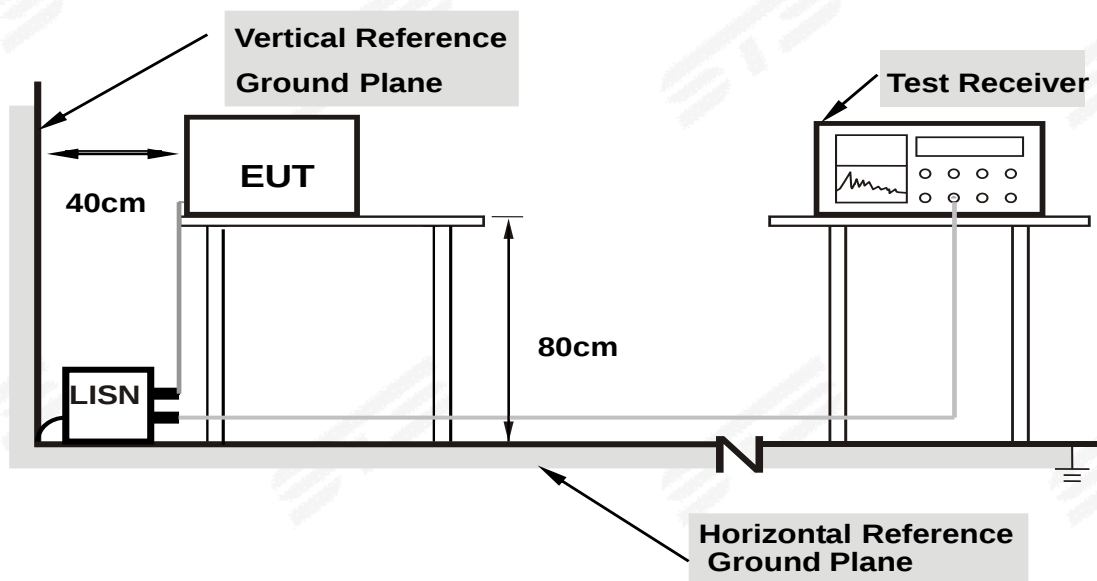
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

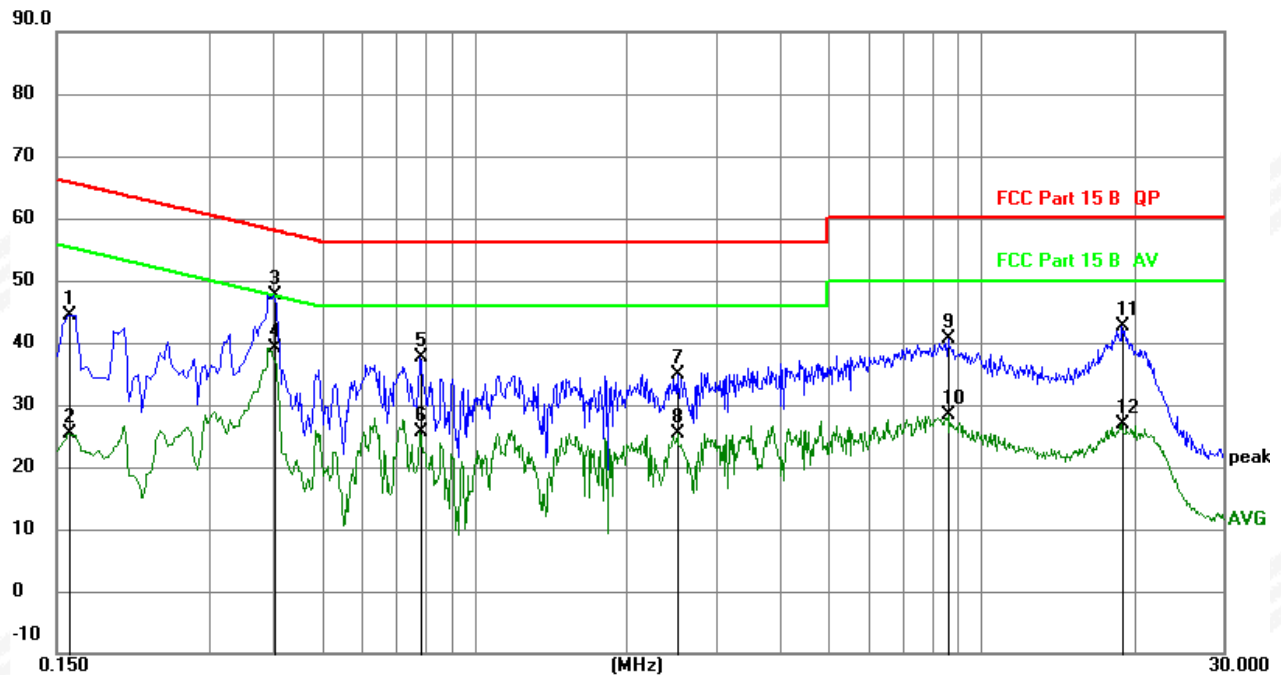
3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.5 TEST RESULTS

Temperature:	23.7 °C	Relative Humidity:	64 %
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 1(The worst mode)		



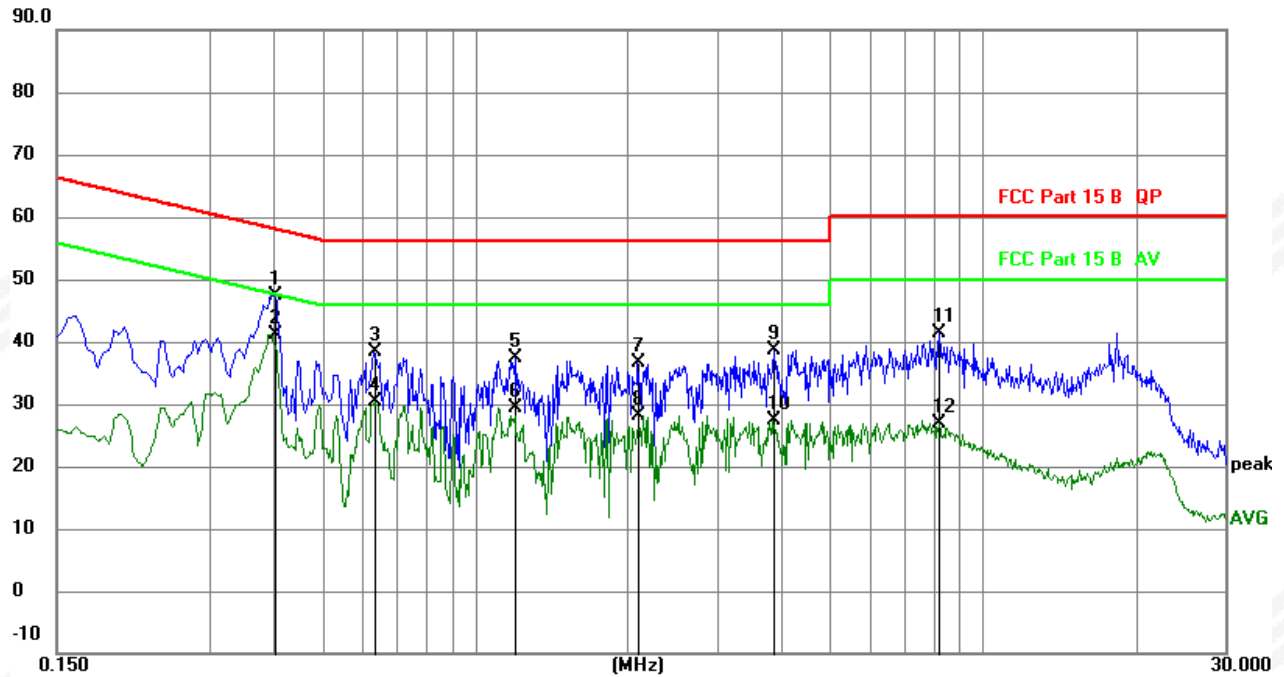
Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1590	24.43	20.04	44.47	65.52	-21.05	QP
2		0.1590	5.25	20.04	25.29	55.52	-30.23	AVG
3		0.4020	27.50	20.05	47.55	57.81	-10.26	QP
4	*	0.4020	19.03	20.05	39.08	47.81	-8.73	AVG
5		0.7799	17.27	20.26	37.53	56.00	-18.47	QP
6		0.7799	5.28	20.26	25.54	46.00	-20.46	AVG
7		2.5260	14.55	20.29	34.84	56.00	-21.16	QP
8		2.5260	5.20	20.29	25.49	46.00	-20.51	AVG
9		8.6145	19.55	21.16	40.71	60.00	-19.29	QP
10		8.6145	7.29	21.16	28.45	50.00	-21.55	AVG
11		18.9825	19.33	23.36	42.69	60.00	-17.31	QP
12		18.9825	3.46	23.36	26.82	50.00	-23.18	AVG



Temperature:	23.7 °C	Relative Humidity:	64 %
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 1(The worst mode)		



Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz		dB	dBuV	dBuV	dB	
1		0.4019	27.43	20.05	47.48	57.81	-10.33	QP
2	*	0.4019	21.10	20.05	41.15	47.81	-6.66	AVG
3		0.6305	18.07	20.19	38.26	56.00	-17.74	QP
4		0.6305	10.23	20.19	30.42	46.00	-15.58	AVG
5		1.1970	17.17	20.25	37.42	56.00	-18.58	QP
6		1.1970	9.04	20.25	29.29	46.00	-16.71	AVG
7		2.0879	16.53	20.20	36.73	56.00	-19.27	QP
8		2.0879	7.91	20.20	28.11	46.00	-17.89	AVG
9		3.8808	18.05	20.58	38.63	56.00	-17.37	QP
10		3.8808	6.85	20.58	27.43	46.00	-18.57	AVG
11		8.1916	20.20	21.10	41.30	60.00	-18.70	QP
12		8.1916	5.78	21.10	26.88	50.00	-23.12	AVG



4. RADIATED& FIELD EMISSION TEST RESULT (SECTION 15.209)

4.1 LIMIT

Frequency [MHz]	Field Strength [uV/m]	Measurement Distance [Meters]
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

§ 15.209(d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.2 TEST PROCEDURE

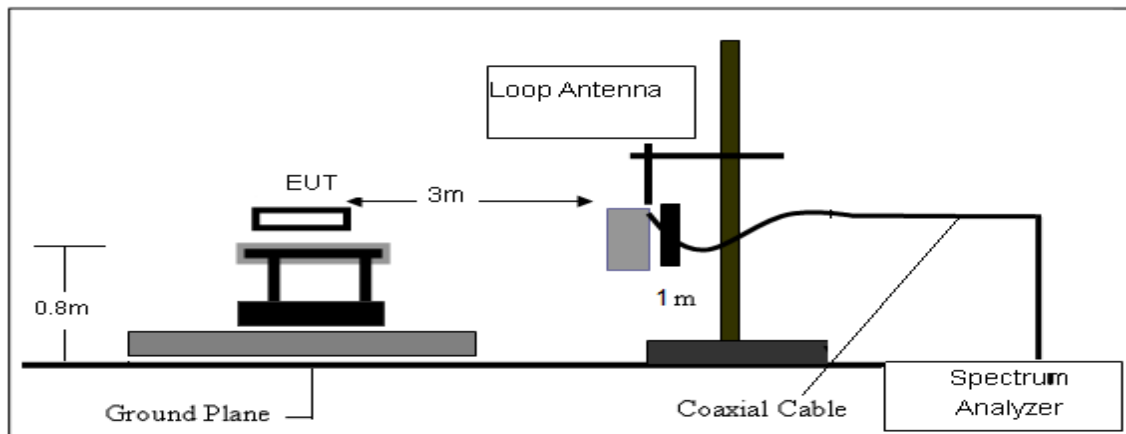
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. 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.
- d. 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.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

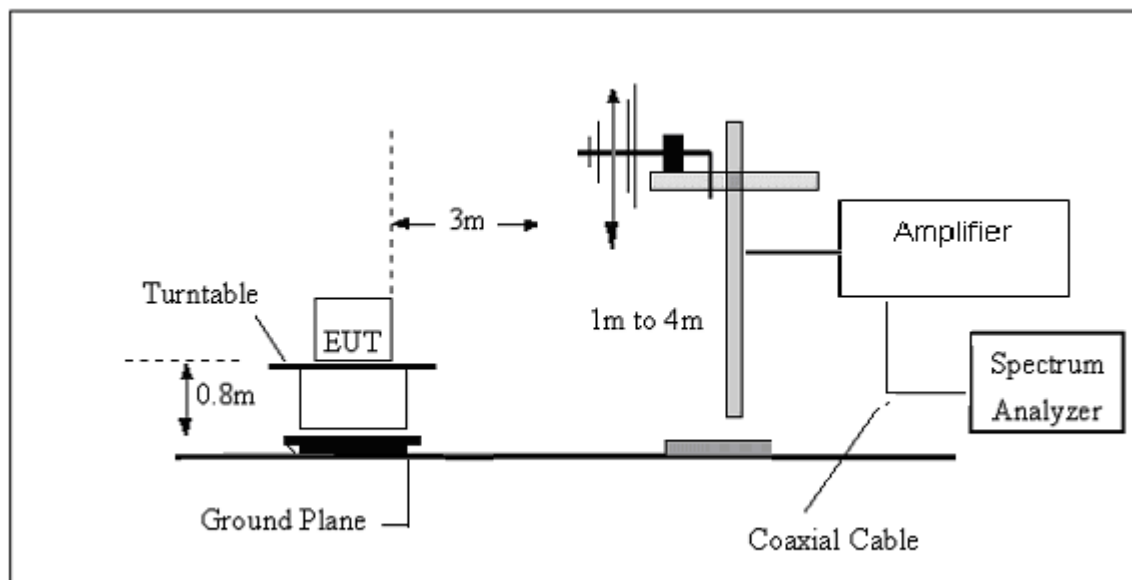
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



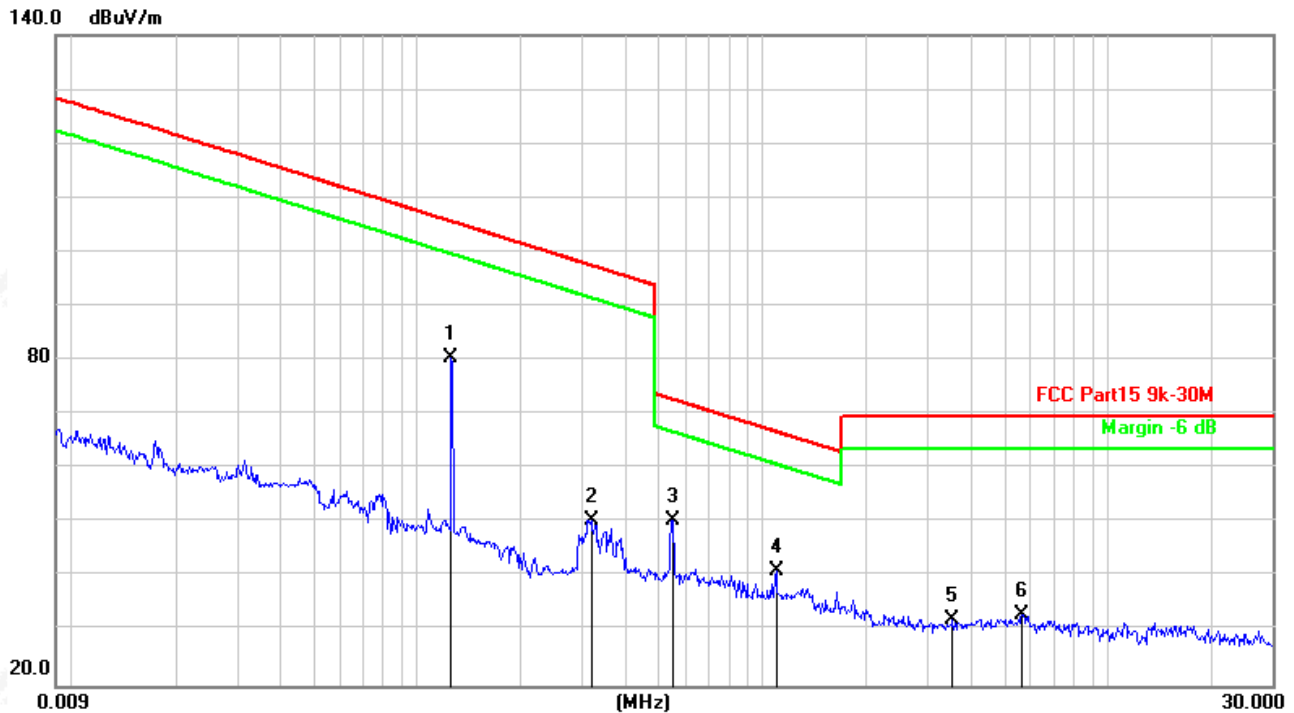


4.4 TEST RESULTS

4.4.1 Spurious Radiated Emission Below 30 MHz

Temperature :	23.4°C	Relative Humidity :	60%
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1
Polarization:	Coplanar(the worst mode)		

9KHz- 30MHz

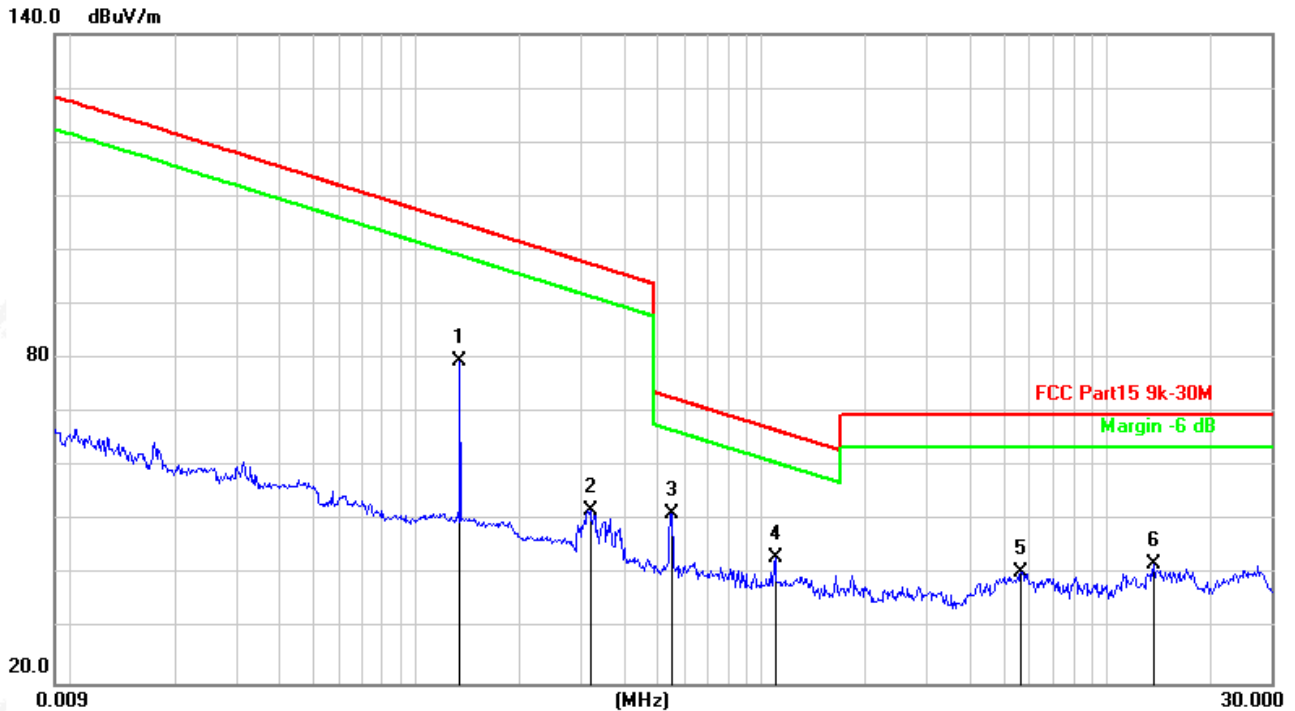


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1		0.1257	87.91	-7.54	80.37	105.6	-25.25	peak
2		0.3194	58.26	-7.70	50.56	97.52	-46.96	peak
3	*	0.5500	57.99	-7.52	50.47	72.80	-22.33	peak
4		1.0959	48.52	-7.36	41.16	66.83	-25.67	peak
5		3.5531	39.37	-7.16	32.21	69.54	-37.33	peak
6		5.6417	40.05	-7.09	32.96	69.54	-36.58	peak



Temperature :	23.4℃	Relative Humidity :	60%
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 2
Polarization:	Coplanar(the worst mode)		

9KHz- 30MHz

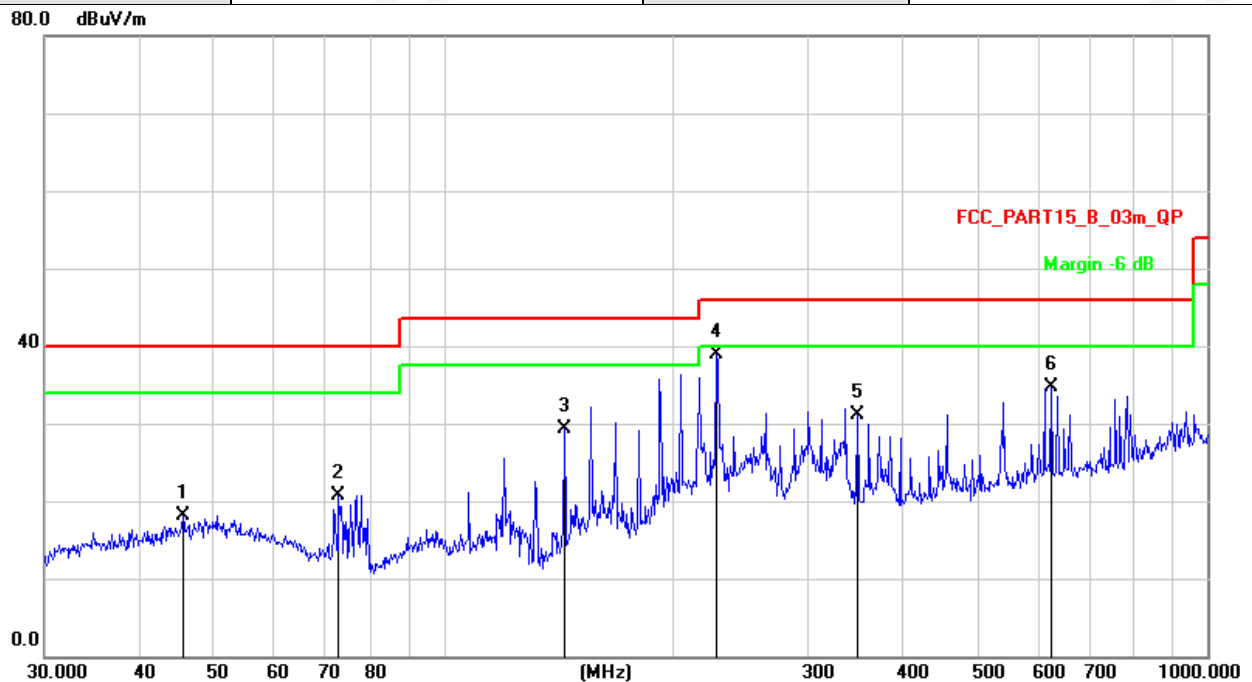


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dB/m	dB	
1		0.1340	87.15	-7.55	79.60	105.0	-25.46	peak
2		0.3194	59.76	-7.70	52.06	97.52	-45.46	peak
3	*	0.5500	58.99	-7.52	51.47	72.80	-21.33	peak
4		1.0959	50.52	-7.36	43.16	66.83	-23.67	peak
5		5.6417	47.55	-7.09	40.46	69.54	-29.08	peak
6		13.6585	49.39	-7.23	42.16	69.54	-27.38	peak



4.4.2 Spurious Radiated Emission below 1 GHz

Temperature:	26 °C	Relative Humidity:	54%
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(Worst mode)



Remark:

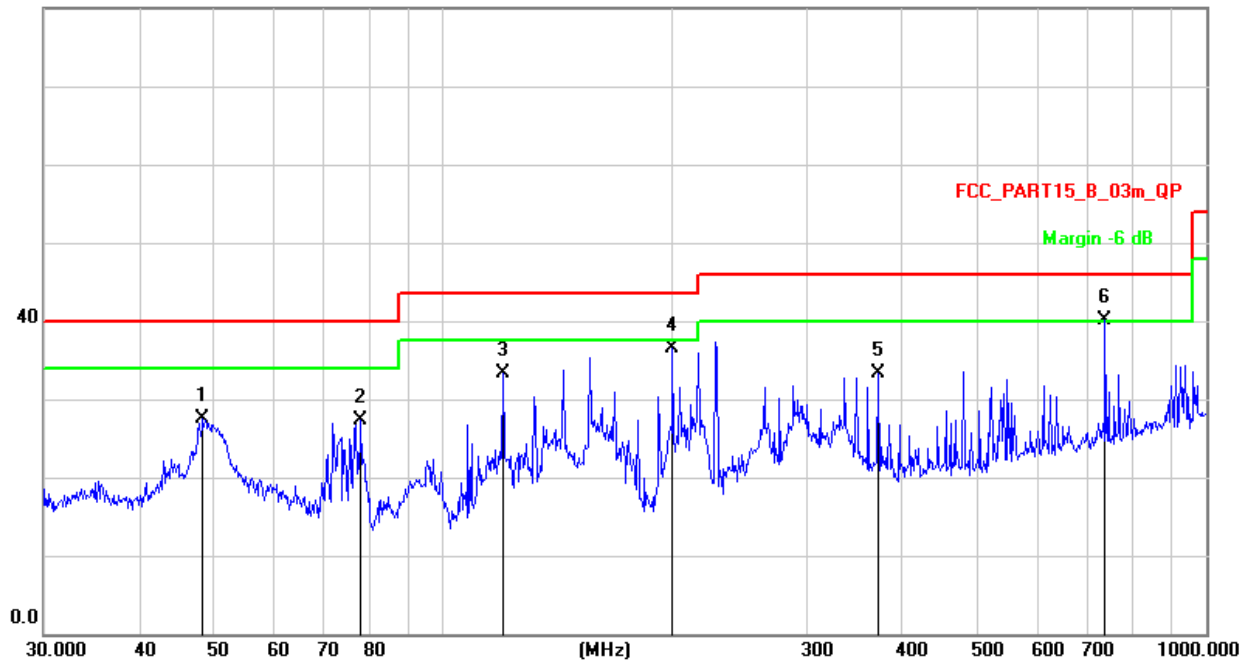
1. Margin = Result (Result = Reading + Factor) - Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		45.5347	26.27	-8.13	18.14	40.00	-21.86	QP
2		72.8465	32.66	-11.91	20.75	40.00	-19.25	QP
3		143.8294	42.11	-12.90	29.21	43.50	-14.29	QP
4	*	227.6905	48.04	-9.17	38.87	46.00	-7.13	QP
5		348.0274	37.44	-6.28	31.16	46.00	-14.84	QP
6		625.0779	36.38	-1.63	34.75	46.00	-11.25	QP



Temperature:	26 °C	Relative Humidity:	54%
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(Worst mode)

80.0 dBuV/m



Remark:

1. Margin = Result (Result = Reading + Factor) - Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dB/m	dB	
1		48.5016	35.44	-7.95	27.49	40.00	-12.51	QP
2		78.1389	40.50	-13.13	27.37	40.00	-12.63	QP
3		119.8555	44.17	-10.82	33.35	43.50	-10.15	QP
4		199.9856	45.85	-9.43	36.42	43.50	-7.08	QP
5		372.0045	38.85	-5.56	33.29	46.00	-12.71	QP
6	*	737.0714	40.67	-0.62	40.05	46.00	-5.95	QP



5. 20 DB BANDWIDTH TEST

5.1 Limit

FCC Part 2.1049, Only applicable to report.

5.2 TEST SETUP

1. Set RBW = 1%~5% OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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 20 dB relative to the maximum level measured in the fundamental emission.

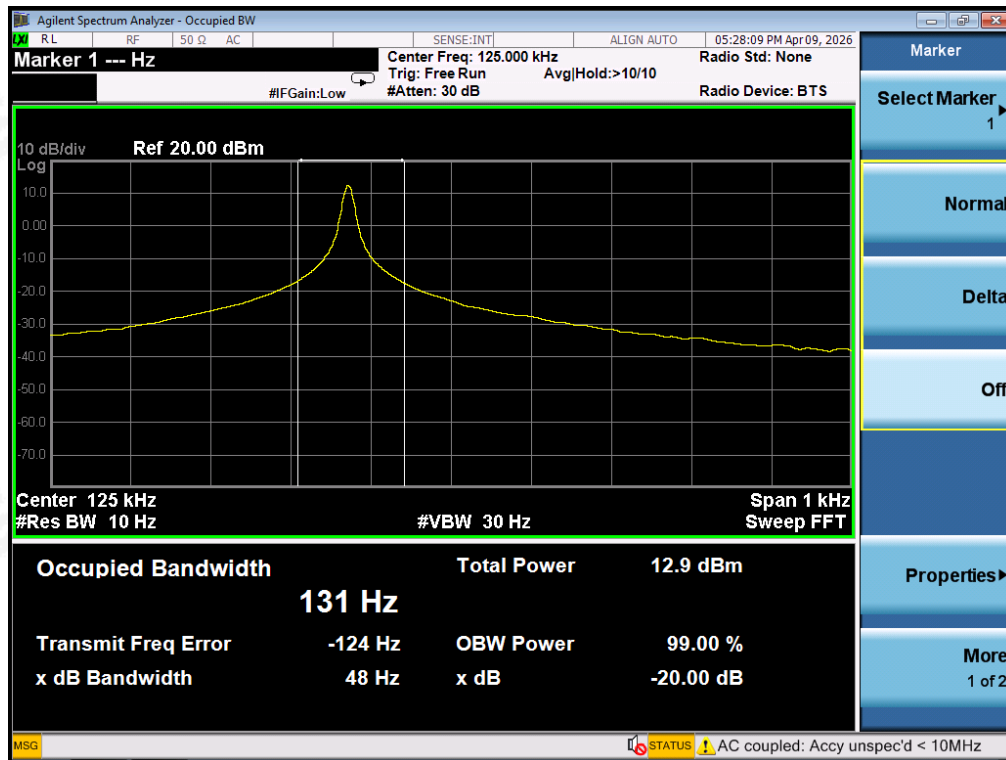




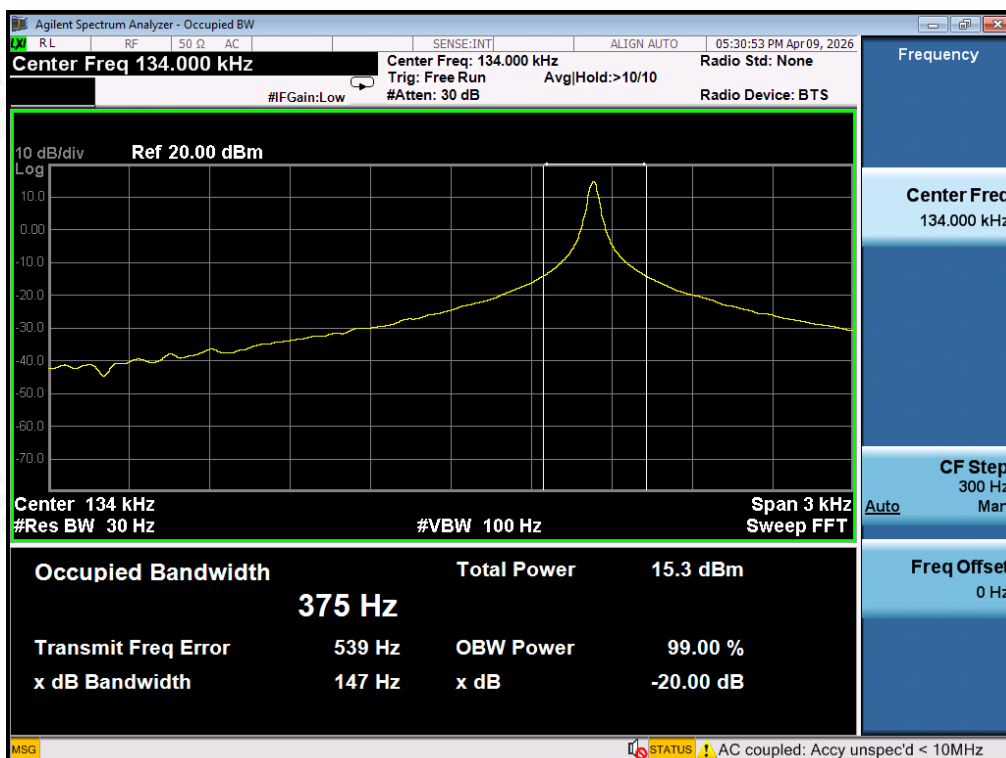
5.3 TEST RESULTS

Operating Frequency (kHz)	20 dB Bandwidth (Hz)
125	131
134	375

125kHz



134kHz





APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

*****END OF THE REPORT*****