



FCC TEST REPORT

For

Shenzhen Ling Zun Electronic Technology Co.,Ltd.

Multl-functiona Lamp

Test Model: LZ-S2017

Additional Model No.: LZ-S2017 (A-Z)

Prepared for	:	Shenzhen Ling Zun Electronic Technology Co.,Ltd.
Address	:	Room 609, Xinfu Building, Central Road, Xinqiao street, Baoan District, Shenzhen, China.
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel	:	(+86)755-82591330
Fax	:	(+86)755-82591332
Web	:	www.LCS-cert.com
Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	December 25, 2021
Number of tested samples	:	2
Serial number	:	211221087A-1, 211221087A-2
Date of Test	:	December 25, 2021 ~ January 20, 2022
Date of Report	:	January 21, 2022



Scan code to check authenticity

**FCC TEST REPORT
FCC CFR 47 PART 15C****Report Reference No. : LCS211221087AEB**

Date Of Issue : January 21, 2022

Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park
Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
518000, ChinaTesting Location/ Procedure : Full application of Harmonised standards ☒
Partial application of Harmonised standards ☐
Other standard testing method ☐**Applicant's Name : Shenzhen Ling Zun Electronic Technology Co.,Ltd.**Address : Room 609, Xinfu Building, Central Road, Xinqiao street, Baoan
District, Shenzhen, China.**Test Specification**

Standard : FCC CFR 47 PART 15C

Test Report Form No. : LCSEMC-1.0

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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Test Item Description..... : Multi-functiona Lamp

Trade Mark : N/A

Test Model..... : LZ-S2017

Power Supply : Input: 12.0V $\Rightarrow$ 2.0A

For AC Adapter Input: 100-240V~, 50/60Hz, 0.7A

Adapter Output: 12.0V $\Rightarrow$ 2.0A, 24.0W

Wireless Charging: 5W/7.5W/10W

Result : Positive**Compiled by:**

Jin Wang / Administrator

Supervised by:

Cary Luo / Technique principal

Approved by:

Gavin Liang/ Manager

**FCC TEST REPORT**

Test Report No. : LCS211221087AEB	<u>January 21, 2022</u> Date of issue
---	--

Test Model.....	: LZ-S2017
EUT.....	: Multi-functiona Lamp
Applicant.....	: Shenzhen Ling Zun Electronic Technology Co.,Ltd.
Address.....	: Room 609, Xinfu Building, Central Road, Xinqiao street, Baoan District, Shenzhen, China.
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Shenzhen Ling Zun Electronic Technology Co.,Ltd.
Address.....	: Room 609, Xinfu Building, Central Road, Xinqiao street, Baoan District, Shenzhen, China.
Telephone.....	: /
Fax.....	: /
Factory.....	: Shenzhen Ling Zun Electronic Technology Co.,Ltd.
Address.....	: Room 609, Xinfu Building, Central Road, Xinqiao street, Baoan District, Shenzhen, China.
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



Revision History

Revision	Issue Date	Revisions	Revised By
000	January 21, 2022	Initial Issue	Gavin Liang



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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	: Multl-functiona Lamp
Test Model	: LZ-S2017
Additional Model No.	: LZ-S2017(A-Z)
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested. Input: 12.0V $\rightleftharpoons$ 2.0A
Power Supply	: For AC Adapter Input: 100-240V~, 50/60Hz, 0.7A Adapter Output: 12.0V $\rightleftharpoons$ 2.0A, 24.0W Wireless Charging: 5W/7.5W/10W
Hardware Version	: V0.05
Software Version	: v0.2.0_beta19+P07
Bluetooth	
Frequency Range	: 2402MHz ~ 2480MHz
Channel Number	: 79 channels for Bluetooth V5.0(DSS)
Channel Spacing	: 1MHz for Bluetooth V5.0 (DSS)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0(DSS)
Bluetooth Version	: V5.0
Antenna Description	: PCB Antenna, 2.81dBi(Max.)
Wireless Charging	
Operating Frequency	: 110~205KHz
Modulation Type	: FSK
Antenna Type	: Coil Antenna, 0dBi(Max.)



1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN K-TECH TECHNOLOGY CO., LTD	AC ADAPTOR	GW30W-120200D	--	FCC
---	ADAPTER	THX-120050KB	--	FCC

Note: The mobile phone is supplied by lab and only use tested.

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
Micro USB Port	1	Cable: 1.0m, unshielded

1.4 Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10:2013 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5 Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty	9KHz~30MHz	3.10dB	(1)
	30MHz~200MHz	2.96dB	(1)
	200MHz~1000MHz	3.10dB	(1)
	1GHz~26.5GHz	3.80dB	(1)
	26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	150kHz~30MHz	1.63dB	(1)
Power disturbance	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



1.7 Description of Test Modes

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

Modulation Type: FSK

Test Modes		
Mode 1	AC/DC Adapter (12V/2A) + EUT + Mobile Phone (Battery Status: <1%)	Record
Mode 2	AC/DC Adapter (12V/2A) + EUT + Mobile Phone (Battery Status: <50%)	Pre-tested
Mode 3	AC/DC Adapter (12V/2A) + EUT + Mobile Phone (Battery Status: 100%)	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR PART 15C 15.207 and DA 00-705.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the normal operating mode for Hopping Numbers and Dwell Time test and a continuous transmits mode for other tests.

According to its specifications, the EUT must comply with the requirements of the Section 15.207 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013



3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a normal condition.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

N/A.

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.



4. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2021-06-17	2022-06-16
2	SPECTRUM ANALYZER	R&S	FSP40	100503	2021-11-16	2022-11-15
3	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-09-25	2022-09-24
4	Positioning Controller	MF	MF-7082	/	2021-06-21	2022-06-20
5	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
6	EMI Test Receiver	R&S	ESR 7	101181	2021-06-21	2022-06-20
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-06-30	2024-07-01
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-06-30	2024-07-01
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-06-30	2024-07-01
10	RF Cable-R03m	Jye Bao	RG142	CB021	2021-06-21	2022-06-20
11	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2021-06-21	2022-06-20
12	EMI Test Receiver	R&S	ESPI	101840	2021-06-21	2022-06-20
13	Artificial Mains	R&S	ENV216	101288	2021-06-21	2022-06-20
14	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2021-06-21	2022-06-20
15	Broadband Preamplifier	SCHWARZBECK	BBV9745	9719-025	2021-06-21	2022-06-20



5. SUMMARY OF TEST RESULT

FCC Rules	Description of Test	Result
§15.215	20 dB Bandwidth	Compliant
§15.209	Radiated Spurious Emissions	Compliant
§15.207(a)	AC Conducted Emissions	Compliant

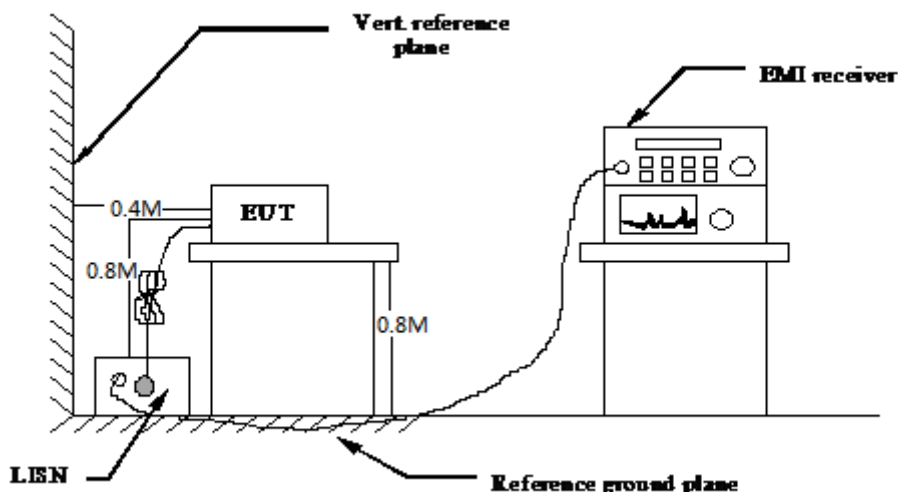
Remark: The measurement uncertainty is not included in the test result.

N/A – Not Applicable!!!



6. POWER LINE CONDUCTED MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. Standard Applicable

According to §15.207: For all the consumer devices which is designed to be connected to the public utility (AC) power line, 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

6.3 Test Results

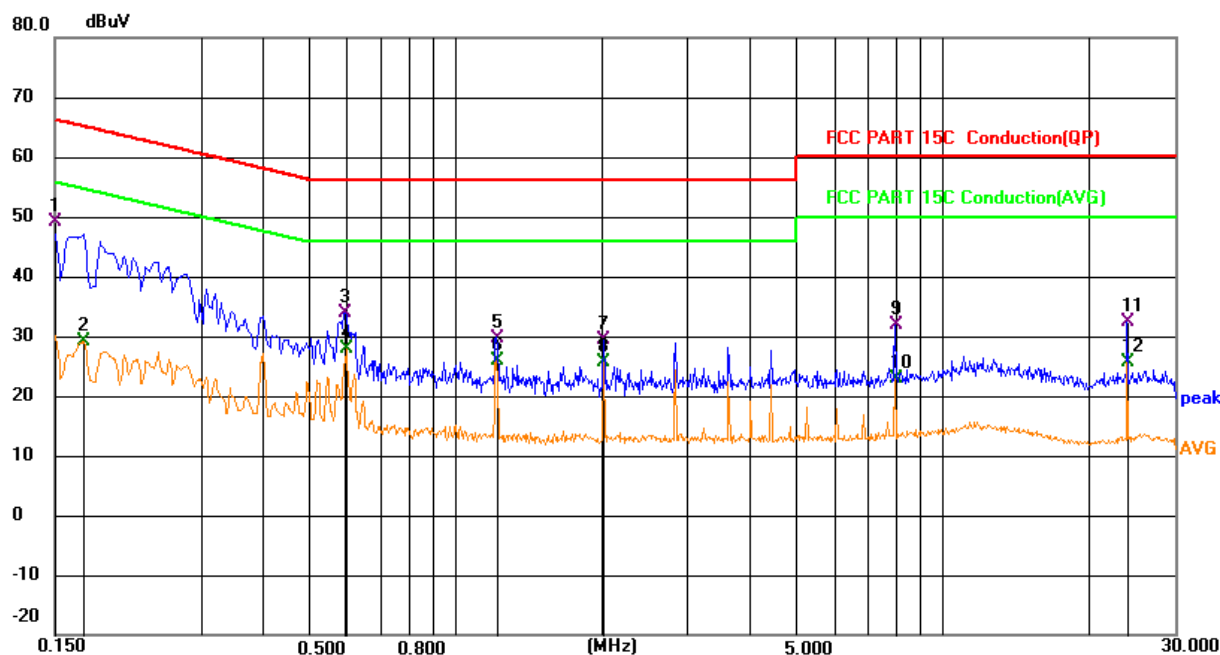
PASS

The test data please refer to following page.

Temperature	22.5°C	Humidity	53.7%
Test Engineer	Kay Hu	Configurations	Transmit

**AC Power Line Conducted Emission (Power input to adapter @ AC 120V/60Hz (Worst Case))**

Line

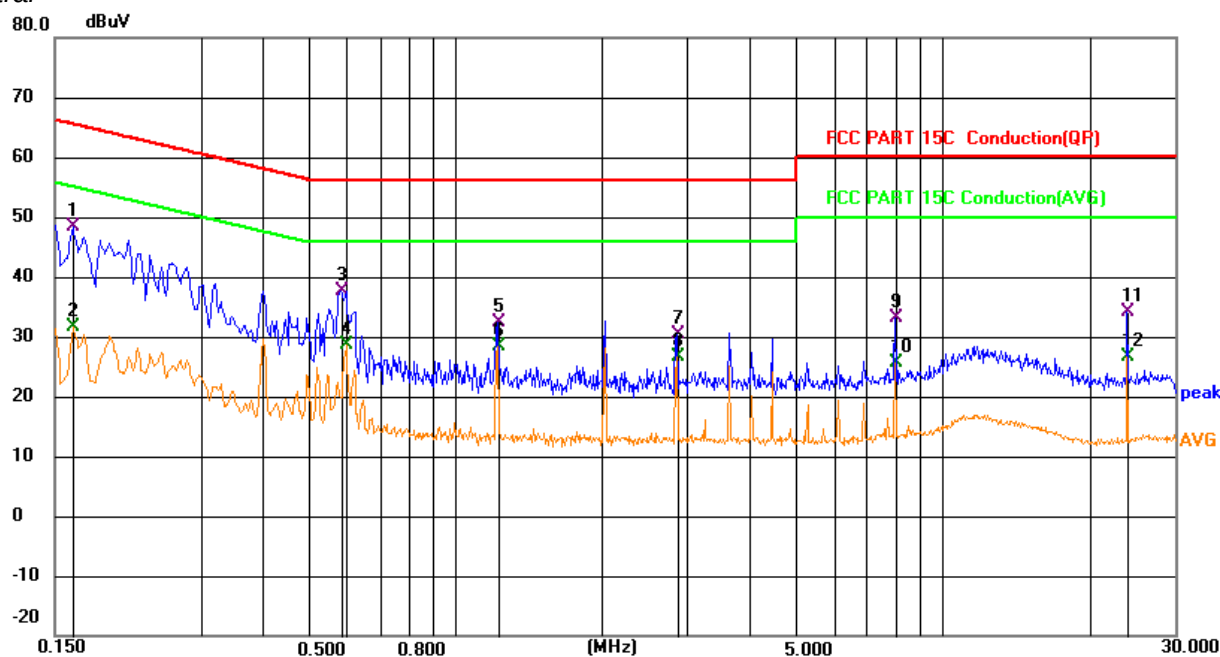


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector
		MHz	Level	Factor	ment	dBuV	dB	
1	*	0.1500	29.38	19.76	49.14	66.00	-16.86	QP
2		0.1726	9.46	19.76	29.22	54.83	-25.61	AVG
3		0.5910	14.07	19.81	33.88	56.00	-22.12	QP
4		0.5955	8.01	19.81	27.82	46.00	-18.18	AVG
5		1.2120	9.95	19.80	29.75	56.00	-26.25	QP
6		1.2120	6.11	19.80	25.91	46.00	-20.09	AVG
7		2.0175	9.66	19.84	29.50	56.00	-26.50	QP
8		2.0175	5.77	19.84	25.61	46.00	-20.39	AVG
9		7.9936	11.81	20.03	31.84	60.00	-28.16	QP
10		7.9936	2.95	20.03	22.98	50.00	-27.02	AVG
11		23.9911	11.61	20.78	32.39	60.00	-27.61	QP
12		23.9911	4.84	20.78	25.62	50.00	-24.38	AVG

*:Maximum data x:Over limit !:over margin



Neutral



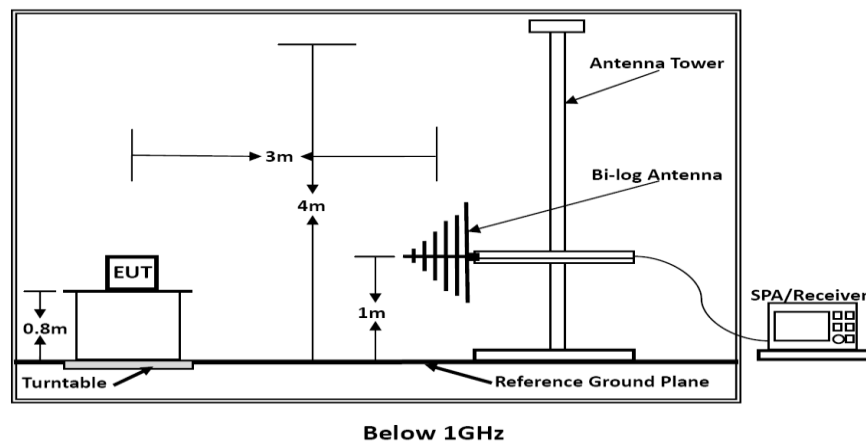
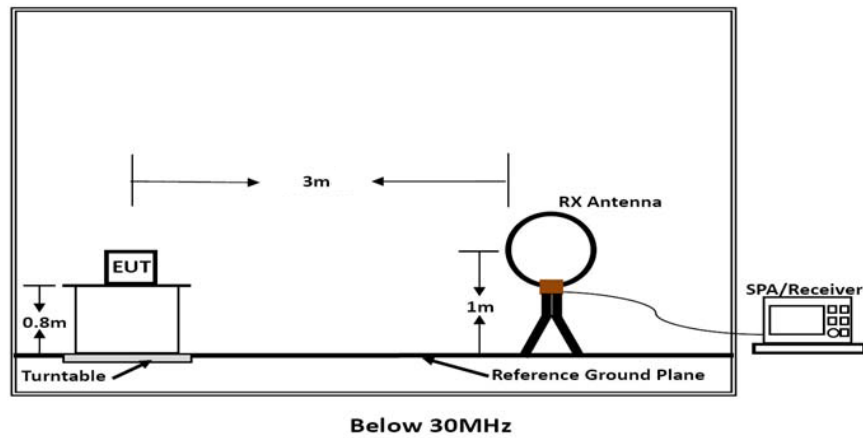
No.	Mk.	Freq.	Reading	Correct	Measurement	Limit	Margin	Detector
		MHz	dBuV	Factor	dBuV	dBuV	dB	
1	*	0.1636	28.69	19.76	48.45	65.28	-16.83	QP
2		0.1636	11.86	19.76	31.62	55.28	-23.66	AVG
3		0.5821	17.91	19.79	37.70	56.00	-18.30	QP
4		0.5955	8.78	19.79	28.57	46.00	-17.43	AVG
5		1.2166	12.65	19.79	32.44	56.00	-23.56	QP
6		1.2166	8.49	19.79	28.28	46.00	-17.72	AVG
7		2.8411	10.63	19.86	30.49	56.00	-25.51	QP
8		2.8411	6.81	19.86	26.67	46.00	-19.33	AVG
9		7.9936	13.10	20.02	33.12	60.00	-26.88	QP
10		7.9936	5.72	20.02	25.74	50.00	-24.26	AVG
11		23.9956	13.48	20.64	34.12	60.00	-25.88	QP
12		23.9956	5.95	20.64	26.59	50.00	-23.41	AVG

*:Maximum data x:Over limit !:over margin

***Note: Margin=Reading level + Correct - Limit

7. RADIATED EMISSION MEASUREMENT

7.1. Block Diagram of Test Setup





7.2. Radiated Emission Limit

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 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	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	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	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			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. 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.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

7.3. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

Setup the EUT as shown in Section 7.1.



7.5. Measuring Setting

The following table is the setting of spectrum analyzer and receiver.

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/Average
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/Average
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

7.6. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

7.7. Test Results

PASS.

Only report the worst test data (Mode 1) in test report;

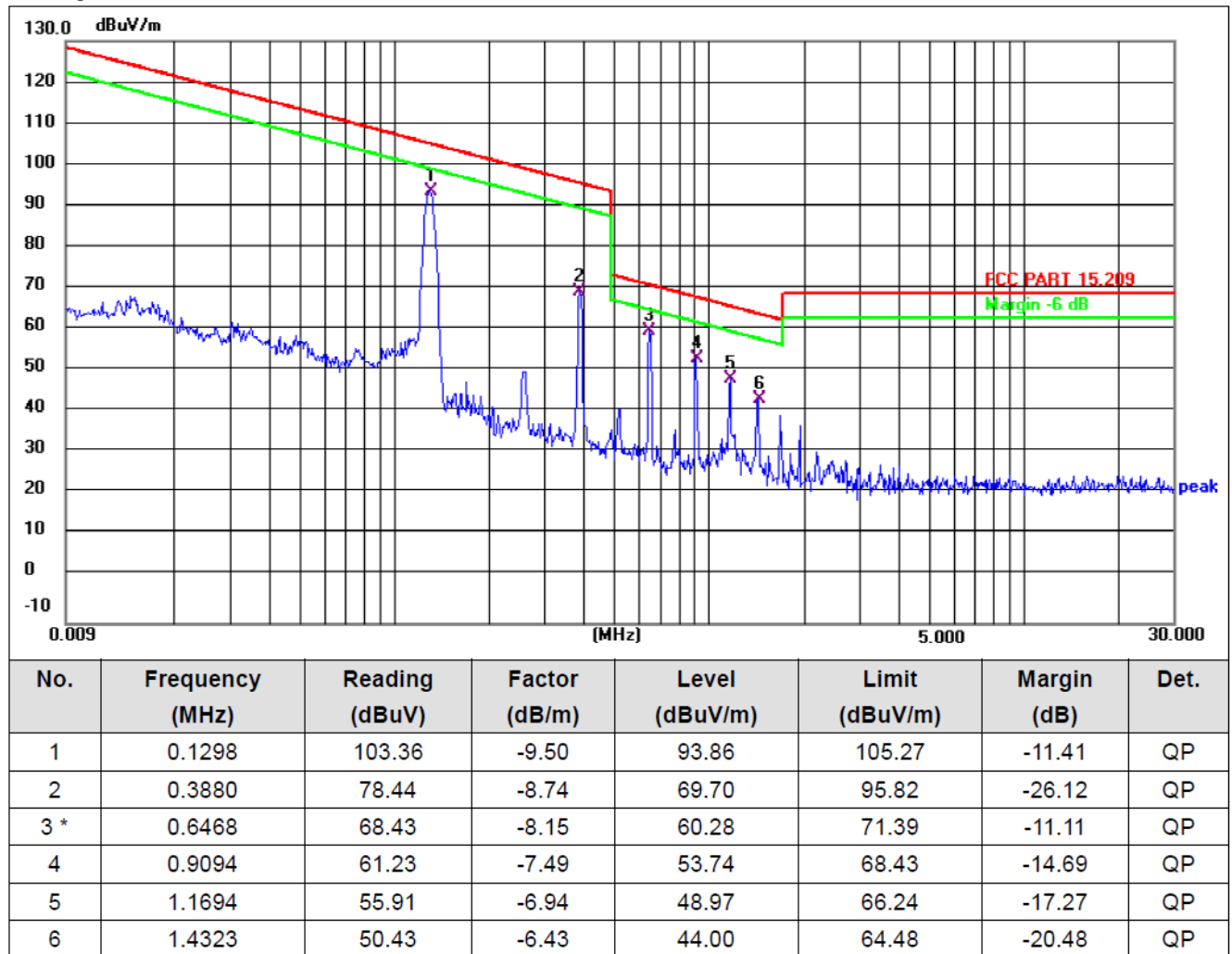
The test data please refer to following page:

Temperature	23.6°C	Humidity	52.2%
Test Engineer	Kay Hu	Configurations	Transmit



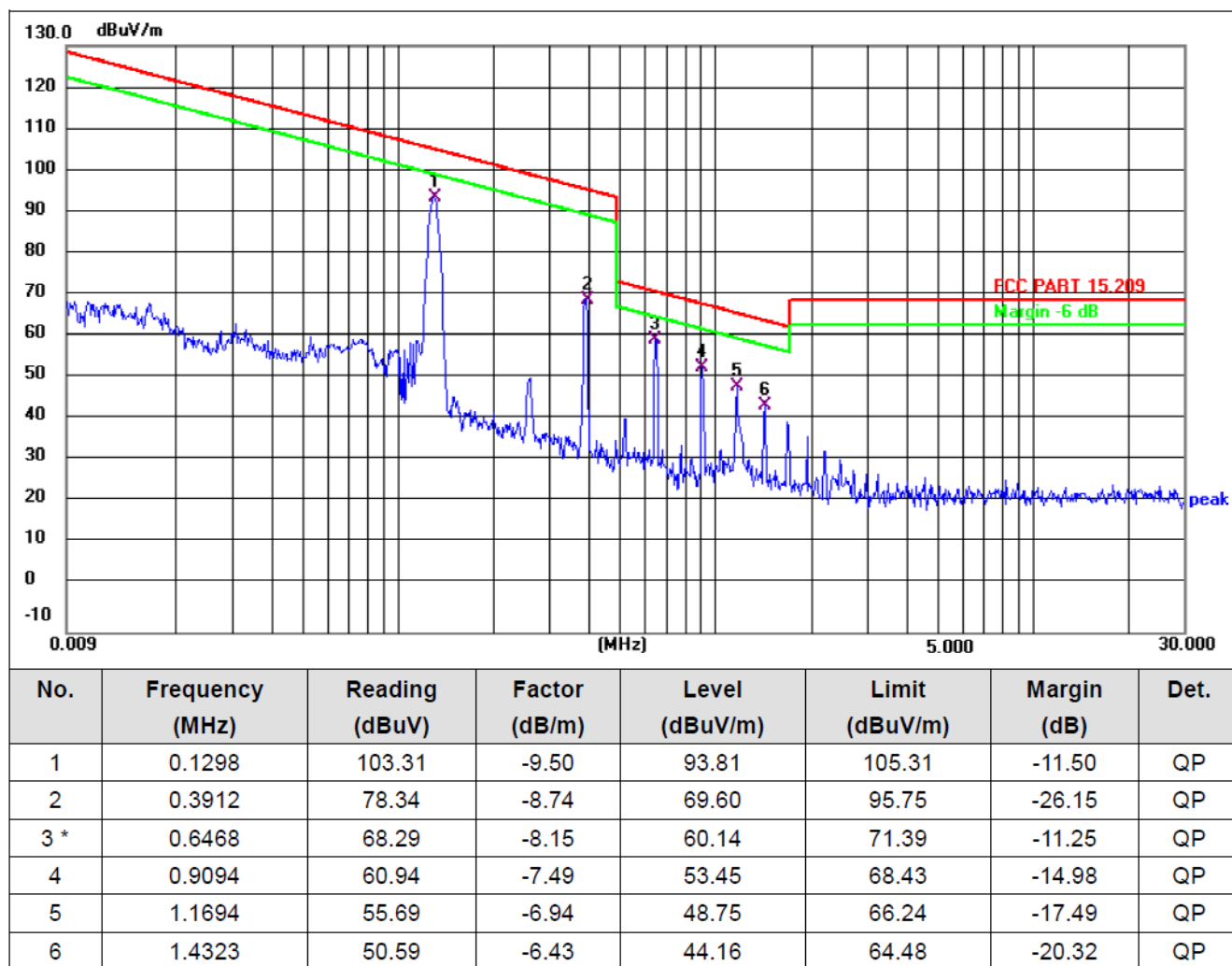
0.009 MHz – 30 MHz

0 degree

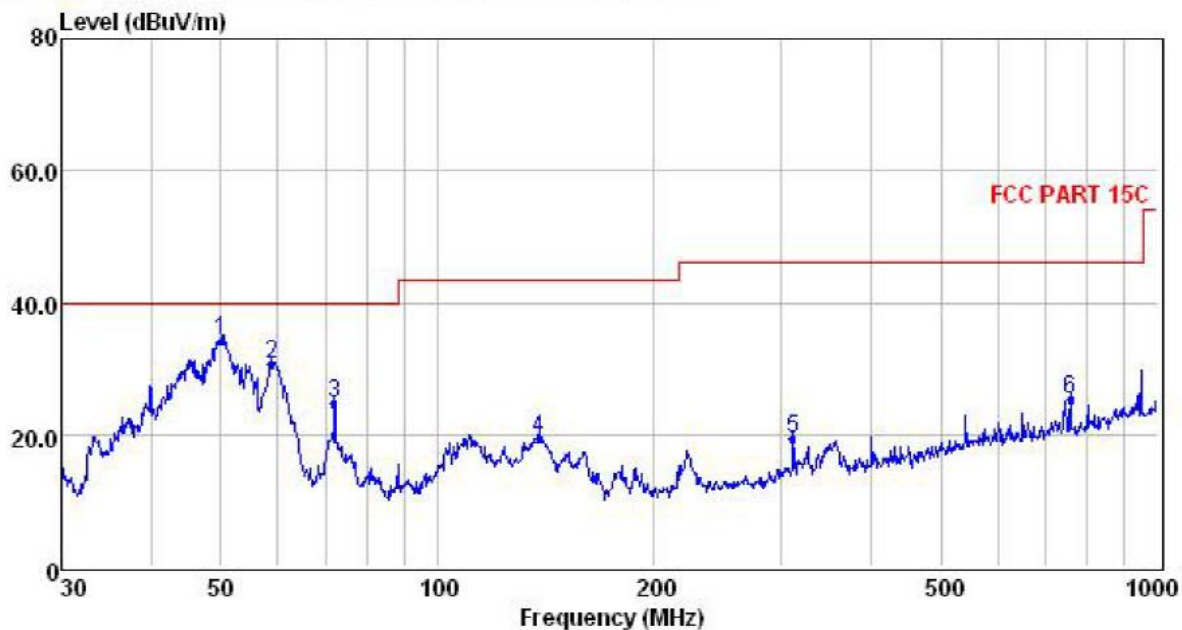




90 degree



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

**Below 1GHz****Horizontal**

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	50.06	20.34	0.54	13.25	34.13	40.00	-5.87	QP
2	58.82	17.41	0.49	12.77	30.67	40.00	-9.33	QP
3	71.83	15.87	0.55	8.34	24.76	40.00	-15.24	QP
4	138.39	10.37	0.70	8.31	19.38	43.50	-24.12	QP
5	312.18	5.07	1.09	13.22	19.38	46.00	-26.62	QP
6	758.04	3.90	1.69	19.54	25.13	46.00	-20.87	QP

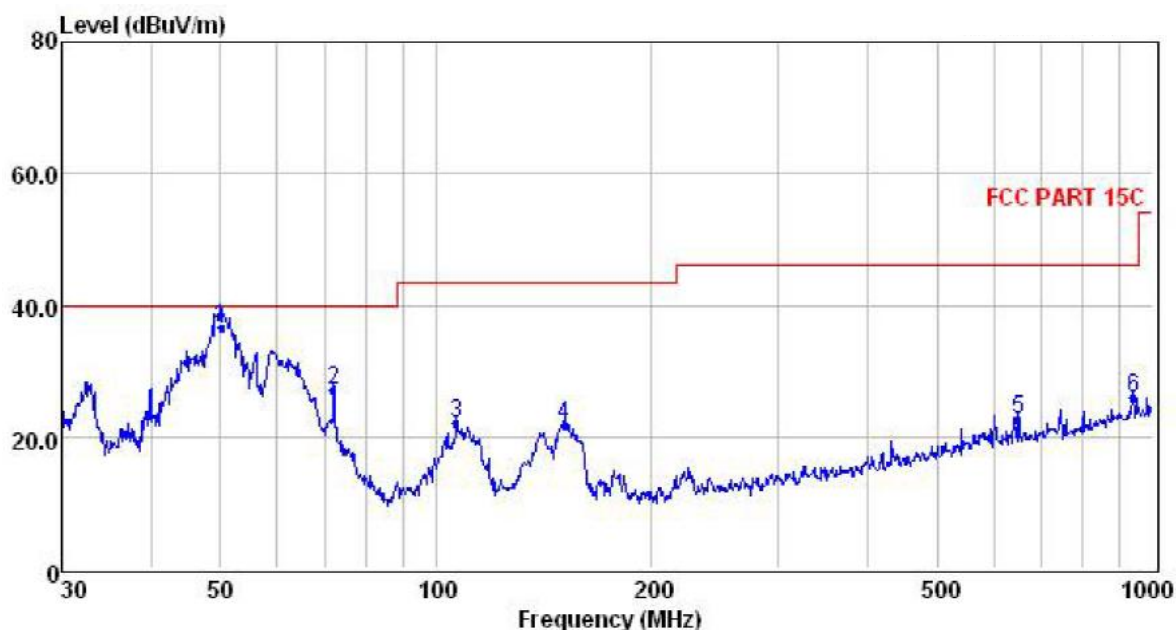
Note: 1. All readings are Quasi-peak values.

2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that are 20db below the official limit are not reported



Vertical



	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	50.06	22.80	0.54	13.25	36.59	40.00	-3.41	QP
2	71.83	18.22	0.55	8.34	27.11	40.00	-12.89	QP
3	106.76	8.76	0.68	12.54	21.98	43.50	-21.52	QP
4	151.07	12.65	0.73	8.30	21.68	43.50	-21.82	QP
5	649.66	2.44	1.58	18.63	22.65	46.00	-23.35	QP
6	942.13	2.69	1.94	21.36	25.99	46.00	-20.01	QP

Note: 1. All readings are Quasi-peak values.

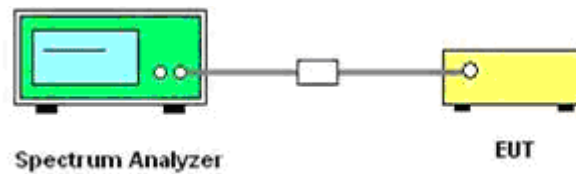
2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that are 20db below the official limit are not reported



8. 20 DB BANDWIDTH MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. Test Procedure

Use the following spectrum analyzer settings:

Span = 500Hz

RBW = 100Hz

VBW = 300Hz

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

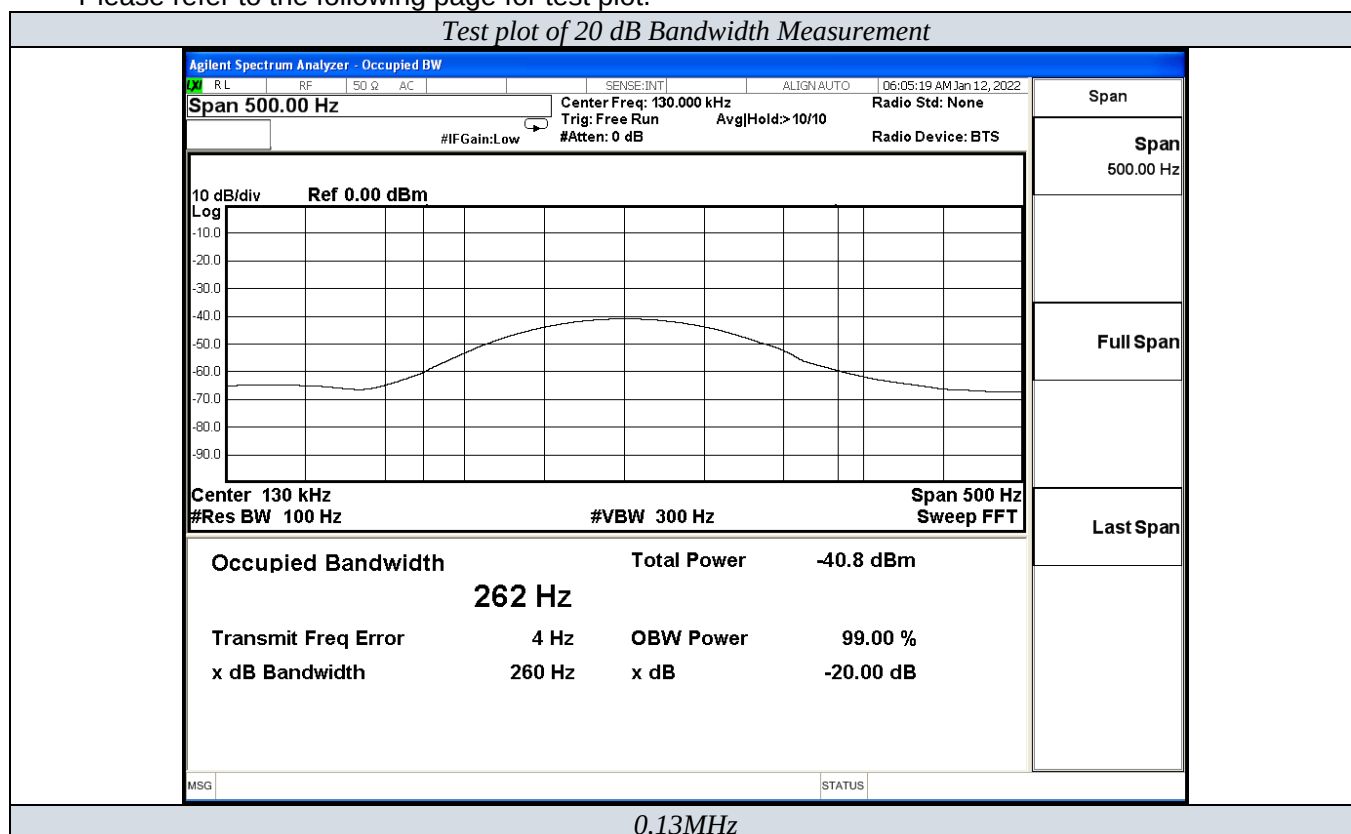


8.3. Test Results

Test Result Of 20dB Bandwidth Measurement		
Test Frequency (MHz)	20dB Bandwidth (kHz)	Limit (KHz)
0.13	0.26	Non-Specified

Result: Pass

Please refer to the following page for test plot.





9. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files for Test Setup Photos of the EUT.

10. EXTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

11. INTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----