

FCC TEST REPORT

FCC ID:YJW-12300PG

Applicant Name..... : Superior communications .

Address..... : 5027 Irwindale Ave, Suite 900 Irwindale Ave, CA 91706

Manufacturer Name..... : Dongguan Gaoyi Electronic Co.,Ltd

Address..... : Room 401, Building 2, No. 211 Huanchang South Road, Changping Town, Dongguan, Guangdong, China.

Product..... : PureGear Universal Cradle Vent Mount

Model(s)..... : 12300PG

Additional Model(s)..... : /

Trademark..... : PureGear

Model Difference..... : /

Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.

Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Date of Receipt..... : July 7, 2026

Date of Test(s)..... : July 7, 2026-July 17, 2026

Date of Issue..... : July 17, 2026

Test Requested..... : Select test(s) as requested by the client.

Test Standard(s)..... : FCC CFR Title 47 Part 15 Subpart C

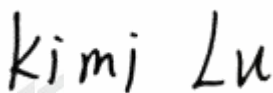
Test procedure..... : ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+ Errata to C63.10a-2024

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

Prepared by:

Reviewed by:

Approved by:



Kimi Lu/ Engineer



Baret Wu/ Director



Levi Lee/ Manager

Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.



TABLE OF CONTENTS

1. TEST SUMMARY	3
2. GENERAL INFORMATION	4
2.1 GENERAL DESCRIPTION OF EUT	4
2.2 TEST MODE	5
2.3 BLOCK DIAGRAM OF EUT CONFIGURATION	7
2.4 TEST CONDITIONS	7
2.5 DESCRIPTION OF SUPPORT UNITS	7
3. TEST FACILITY AND TEST INSTRUMENT USED	8
3.1 TEST FACILITY	8
3.2 INSTRUMENT LIST FOR ALL TEST ITEMS	8
3.3 TESTING SOFTWARE	9
3.4 MEASUREMENT UNCERTAINTY	10
4. CONDUCTED EMISSION TEST	11
4.1 CONDUCTED EMISSION MEASUREMENT	11
4.1.1 POWER LINE CONDUCTED EMISSION Limits	11
4.1.2 TEST PROCEDURE	11
4.1.3 DEVIATION FROM TEST STANDARD	11
4.1.4 TEST SETUP	12
4.1.5 EUT OPERATING CONDITIONS	12
4.1.6 TEST RESULT	13
5. RADIATED EMISSION MEASUREMENT	15
5.1 RADIATED EMISSION LIMITS	15
5.2 ANECHOIC CHAMBER TEST SETUP DIAGRAM	16
5.3 TEST PROCEDURE	16
5.4 DEVIATION FROM TEST STANDARD	16
5.5 TEST RESULT	17
6. BANDWIDTH TEST	21
7. ANTENNA REQUIREMENT	25
8. TEST SETUP PHOTO	26
9. EUT CONSTRUCTIONAL DETAILS	26

1. TEST SUMMARY

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Spurious Emission	15.209(a)(f)	Pass
20dB Bandwidth	15.215	Pass

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	PureGear Universal Cradle Vent Mount
Test Model No:	12300PG
Hardware version:	V1.0
Software version:	V1.0
Operation Frequency:	Phone: 115-205kHz, 360kHz AirPods: 115-205kHz Apple Watch: 320-330kHz
Modulation type:	FSK
Antenna Type:	Inductive loop coil Antenna
Antenna gain:	0dBi
Power supply:	Input: 9V  3A, 12V  3A, 15V  3A Power: 32.5W MAX Phone Output: 5W, 7.5W, 10W, 15W, 25WMAX AirPods Output: 5W Apple Watch Output: 2.5W
Sample Number:	260707129YP001
Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Guangdong Zhonghan Testing Technology Co., Ltd. does not assume any responsibility.	

2.2 TEST MODE

Test Modes:	
Mode 1	AC Mains + Phone charging port(115-205kHz)-5 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:≤1%)
Mode 2	AC Mains + Phone charging port(115-205kHz)-5 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:50%)
Mode 3	AC Mains + Phone charging port(115-205kHz)-5 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:≥98%)
Mode 4	AC Mains + Phone charging port(115-205kHz)-7.5 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:≤1%)
Mode 5	AC Mains + Phone charging port(115-205kHz)-7.5 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:50%)-5 W
Mode 6	AC Mains + Phone charging port(115-205kHz)-7.5 W + AirPods charging port -5W + Apple Watch charging port-2.5W(Battery Status:≥98%)
Mode 7	AC Mains + Phone charging port(115-205kHz)-10 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:≤1%)
Mode 8	AC Mains + Phone charging port(115-205kHz)-10 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:50%)
Mode 9	AC Mains + Phone charging port(115-205kHz)-10 W + AirPods charging port-5W + Watch charging port-2.5W(Battery Status:≥98%)-5 W
Mode 10	AC Mains + Phone charging port(360kHz)-MPP15 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:≤1%)
Mode 11	AC Mains + Phone charging port(360kHz)-MPP15 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:50%)
Mode 12	AC Mains + Phone charging port(360kHz)-MPP15 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:≥98%)
Mode 13	AC Mains + Phone charging port(360kHz)-25 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:≤1%)
Mode 14	AC Mains + Phone charging port(360kHz)-25 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:50%)
Mode 15	AC Mains + Phone charging port(360kHz)-25 W + AirPods charging port-5W + Apple Watch charging port-2.5W(Battery Status:≥98%)
Mode 16	AC Mains + Phone charging port(Battery Status:≤1%)(115-205kHz)-5 W
Mode 17	AC Mains + Phone charging port(Battery Status:50%)(115-205kHz)-5 W
Mode 18	AC Mains + Phone charging port(Battery Status:≥98%)(115-205kHz)-5 W
Mode 19	AC Mains + Phone charging port(Battery Status:≤1%)(115-205kHz)-7.5 W
Mode 20	AC Mains + Phone charging port(Battery Status:50%)(115-205kHz)-7.5 W
Mode 21	AC Mains + Phone charging port(Battery Status:≥98%)(115-205kHz)-7.5 W
Mode 22	AC Mains + Phone charging port(Battery Status:≤1%)(115-205kHz)-10 W
Mode 23	AC Mains + Phone charging port(Battery Status:50%)(115-205kHz)-10 W
Mode 24	AC Mains + Phone charging port(Battery Status:≥98%)(115-205kHz)-10 W
Mode 25	AC Mains + Phone charging port(Battery Status:≤1%)(360kHz)-MPP15 W



Mode 26	AC Mains + Phone charging port(Battery Status:50%)(360kHz)-MPP15 W
Mode 27	AC Mains + Phone charging port(Battery Status:≥98%)(360kHz)-MPP15 W
Mode 28	AC Mains + Phone charging port(Battery Status:≤1%)(360kHz)-25 W
Mode 29	AC Mains + Phone charging port(Battery Status:50%)(360kHz)-25 W
Mode 30	AC Mains + Phone charging port(Battery Status:≥98%)(360kHz)-25 W
Mode 31	AC Mains + AirPods charging port(Battery Status:≤1%)(115-205kHz)-5W
Mode 32	AC Mains + AirPods charging port(Battery Status:50%)(115-205kHz)--5W
Mode 33	AC Mains + AirPods charging port(Battery Status:≥98%)(115-205kHz)--5W
Mode 34	AC Mains + Apple Watch charging port -(Battery Status:≤1%)(325-330 kHz)-5W
Mode 35	AC Mains + Apple Watch charging port -(Battery Status:50%)(325-330 kHz)-5 W
Mode 36	AC Mains + Apple Watch charging port -(Battery Status:≥98%)(325-330 kHz)-5 W
Mode 37	Standby
Note: All modes were tested, only the worst-case was recorded in the report. Mode 13 is the worst mode.	

2.3 BLOCK DIAGRAM OF EUT CONFIGURATION



2.4 TEST CONDITIONS

Temperature: 25.6℃

Relative Humidity: 54.3%RH

2.5 DESCRIPTION OF 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.	Series No.	Note
1	AC Adapter	vivo	V10091L0E1-CN	/	AE
2	AirPods	Apple Inc.	A2031	/	AE
3	Apple Watch	Apple Inc.	ultra 2	/	AE
4	Mobile phone	Apple Inc.	iPhone 16 PULS	/	AE

Item	Shielded Type	Ferrite Core	Length	Note

Note:	
(1)	The support equipment was authorized by Declaration of Confirmation.
(2)	For detachable type I/O cable should be specified the length in cm in 『Length』 column.
(3)	“YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

3. TEST FACILITY AND TEST INSTRUMENT USED

3.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.
Add. :Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

FCC Registration Number:255941
Designation Number: CN0325
IC Registered No.: 29832
CAB identifier: CN0143

3.2 INSTRUMENT LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Model	Serial No.	Equipment No.	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	100874	ZH-E005	Apr. 24, 2026	Apr. 23, 2027
2	Loop Antenna	TESEQ	HLA6121	58357	ZH-E036	Sept. 8, 2025	Sept. 7, 2026
3	Amplifier	Schwarzbeck	BBV 9743 B	00378	ZH-E019	Apr. 24, 2026	Apr. 23, 2027
4	Amplifier	Schwarzbeck	BBV 9718 B	00040	ZH-E021	May 8, 2026	May 7, 2027
5	Bilog Antenna	Schwarzbeck	VULB9162	00498	ZH-E017	Apr. 25, 2026	Apr. 24, 2027
6	Horn Antenna	Schwarzbeck	BBHA9120D	02623	ZH-E020	Apr. 25, 2026	Apr. 24, 2027
7	Horn Antenna	A.H.SYSTEMS	SAS574	588	ZH-E062	Oct. 20, 2025	Oct. 19, 2026
8	Amplifier	AEROFLEX	100KHz-40GHz	097	ZH-E063	Oct. 20, 2025	Oct. 19, 2026
9	Spectrum Analyzer	R&S	FSV40	101413	ZH-E064	Apr. 24, 2026	Apr. 23, 2027
10	Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	ZH-E032	Apr. 24, 2026	Apr. 23, 2027
11	WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	109863	ZH-E033	Apr. 24, 2026	Apr. 23, 2027
12	Single Generator	Agilent	N5182A	MY48180575	ZH-E034	Apr. 24, 2026	Apr. 23, 2027
13	Power Sensor	MWRFtest	MW100-RFCB	/	ZH-E066	Apr. 24, 2026	Apr. 23, 2027
14	CABLE	EMToni	DA800-NM-NM-11000MM	/	ZH-E018	Apr. 24, 2026	Apr. 23, 2027

Conduction Test equipment

Item	Equipment	Manufacturer	Model	Serial No.	Equipment No.	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	100874	ZH-E005	Apr. 24, 2026	Apr. 23, 2027
2	LISN	R&S	ENV216	102794	ZH-E006	Aug. 22, 2025	Aug. 21, 2026
3	ISN CAT 6	Schwarzbeck	NTFM 8158	00318	ZH-E012	Apr. 24, 2026	Apr. 23, 2027
4	ISN CAT 5	Schwarzbeck	CAT5 8158	00343	ZH-E013	Apr. 24, 2026	Apr. 23, 2027
5	Capacitive Voltage Probe	Schwarzbeck	CVP 9222C	00101	ZH-E014	May 8, 2026	May 7, 2027
6	Current Transformer Clamp	Schwarzbeck	SW 9605	SW9605 #209	ZH-E015	May 8, 2026	May 7, 2027
7	CABLE	EMToni	RG223-NM-BNCM-2000MM	/	ZH-E007	Apr. 24, 2026	Apr. 23, 2027

3.3 TESTING SOFTWARE

Project	Software name	Edition
Conducted Emission	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission	EZ-EMC	FA-03A2 RE+
RF Test	MTS 8310	2.0.0.0

3.4 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	0.92dB
2	RF conducted power	0.16dB
3	Conducted spurious emissions	0.21dB
4	All radiated emissions (9k-30MHz)	4.68dB
5	All radiated emissions (30-1GHz)	5.1dB
6	All radiated emissions (1-6GHz)	3.9dB
7	All radiated emissions (6GHz-18GHz)	4.3dB
8	All radiated emissions (18-40GHz)	4.65dB
9	Temperature	0.5°C
10	Humidity	2%
11	Occupied Bandwidth	4.96%

Decision Rule

- ☒ Uncertainty is not included
☐ Uncertainty is included

4. CONDUCTED EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+ Errata to C63.10a-2024
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	QP	AVG	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

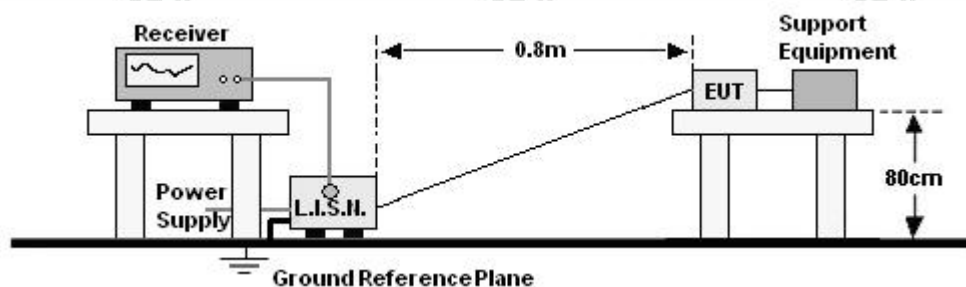
4.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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 at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP

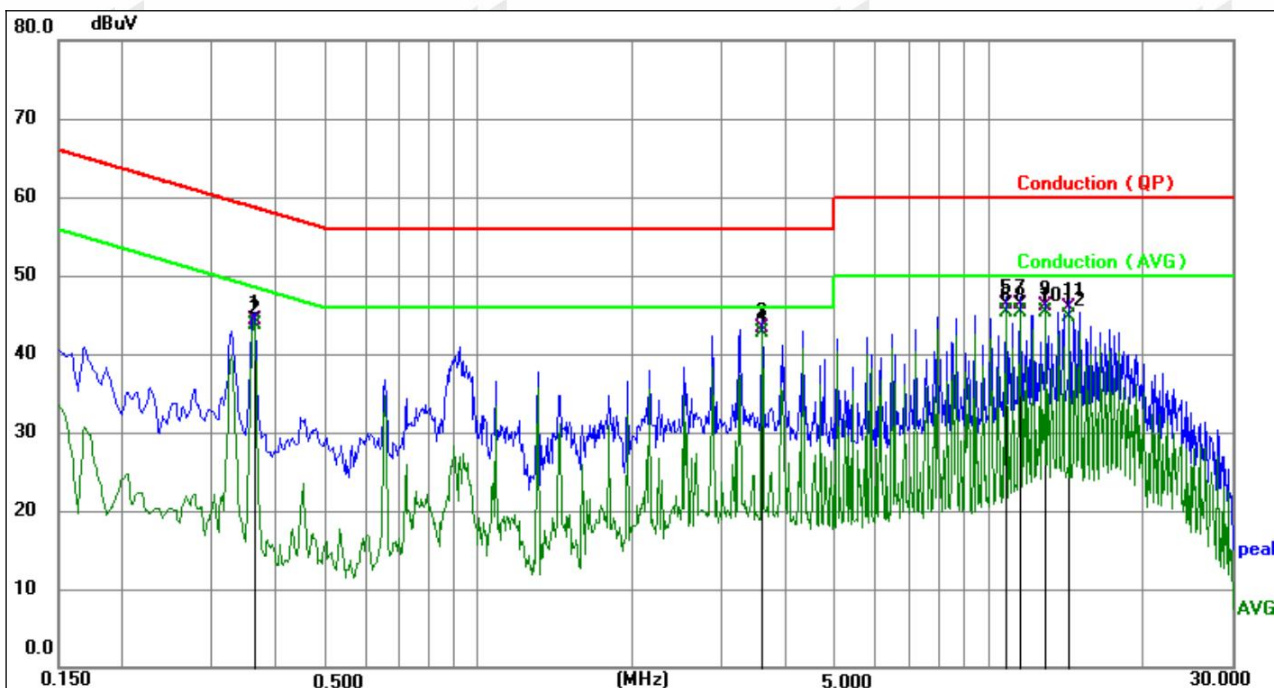


4.1.5 EUT OPERATING CONDITIONS

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.

4.1.6 TEST RESULT

Temperature:	24.6°C	Relative Humidity:	54.8%
Pressure:	101kPa	Phase :	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 13



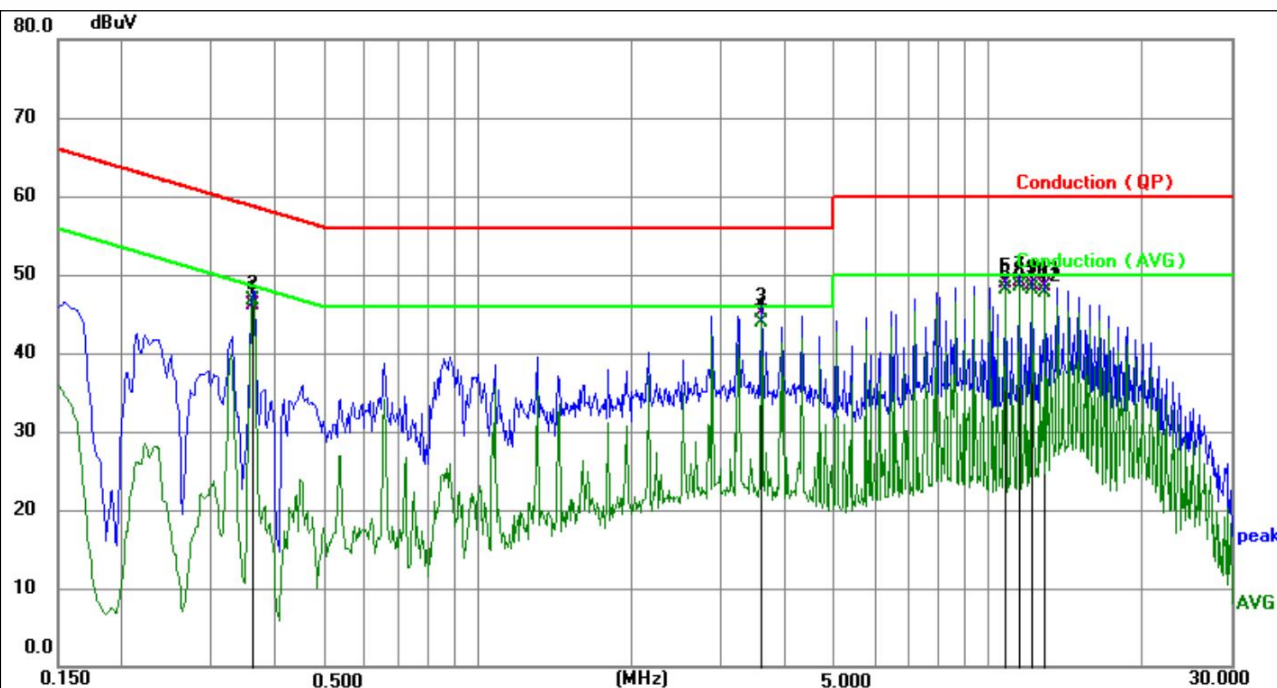
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3615	34.43	9.97	44.40	58.69	-14.29	QP	P	
2	0.3615	33.66	9.97	43.63	48.69	-5.06	AVG	P	
3	3.6015	33.31	10.09	43.40	56.00	-12.60	QP	P	
4 *	3.6015	32.58	10.09	42.67	46.00	-3.33	AVG	P	
5	10.8015	36.26	10.08	46.34	60.00	-13.66	QP	P	
6	10.8015	35.25	10.08	45.33	50.00	-4.67	AVG	P	
7	11.5215	36.24	10.08	46.32	60.00	-13.68	QP	P	
8	11.5215	35.26	10.08	45.34	50.00	-4.66	AVG	P	
9	12.9614	36.01	10.09	46.10	60.00	-13.90	QP	P	
10	12.9614	35.31	10.09	45.40	50.00	-4.60	AVG	P	
11	14.4015	35.91	10.09	46.00	60.00	-14.00	QP	P	
12	14.4015	34.71	10.09	44.80	50.00	-5.20	AVG	P	

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. Measurement Level = Reading level + Correct Factor



Temperature:	24.6°C	Relative Humidity:	54.8%
Pressure:	101kPa	Phase :	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 13



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3614	36.23	9.97	46.20	58.70	-12.50	QP	P	
2	0.3614	36.71	9.97	46.68	48.70	-2.02	AVG	P	
3	3.6015	34.96	10.09	45.05	56.00	-10.95	QP	P	
4	3.6015	33.89	10.09	43.98	46.00	-2.02	AVG	P	
5	10.8015	38.82	10.08	48.90	60.00	-11.10	QP	P	
6	10.8015	38.08	10.08	48.16	50.00	-1.84	AVG	P	
7	11.5214	39.12	10.08	49.20	60.00	-10.80	QP	P	
8 *	11.5214	38.50	10.08	48.58	50.00	-1.42	AVG	P	
9	12.2415	38.71	10.09	48.80	60.00	-11.20	QP	P	
10	12.2415	38.09	10.09	48.18	50.00	-1.82	AVG	P	
11	12.9614	38.41	10.09	48.50	60.00	-11.50	QP	P	
12	12.9614	37.63	10.09	47.72	50.00	-2.28	AVG	P	

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. Measurement Level = Reading level + Correct Factor

5. RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+ Errata to C63.10a-2024				
Test Frequency Range:	9kHz to 1GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

5.1 RADIATED EMISSION LIMITS

Limits for frequency below 30MHz

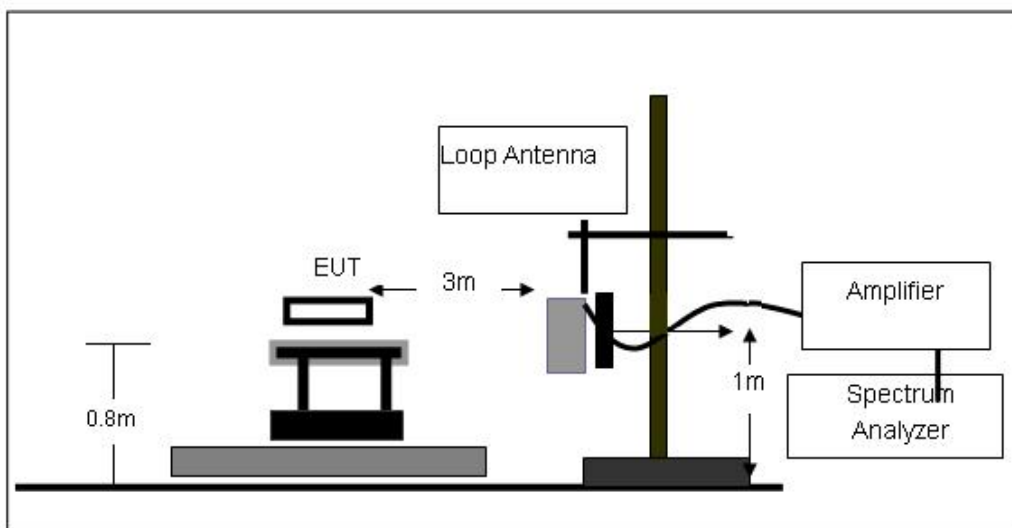
Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	300	Peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

Limits for frequency Above 30MHz

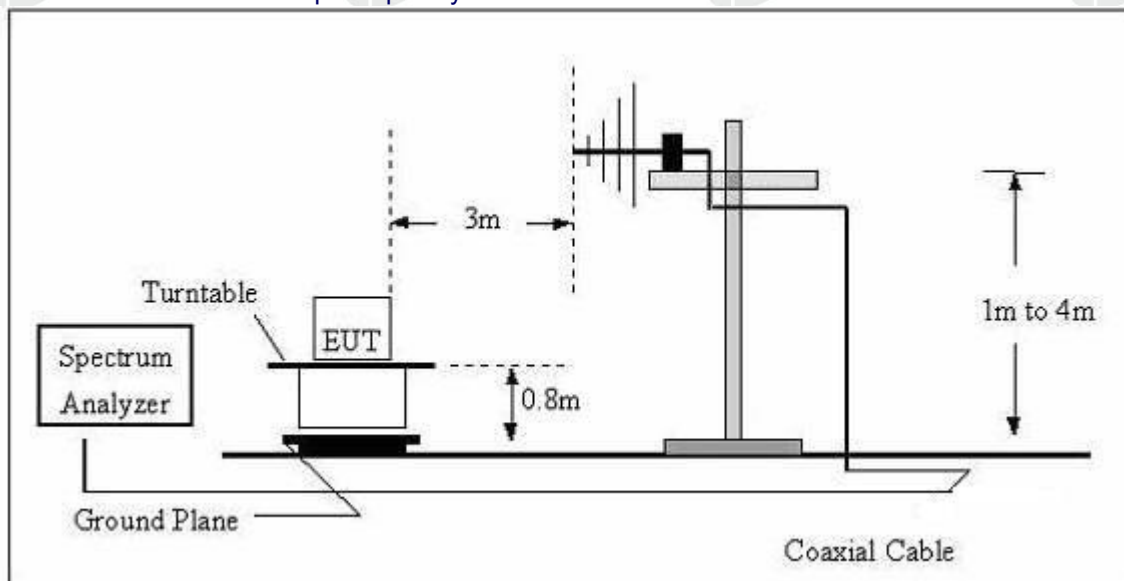
Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
Above 1GHz	54.00	Average Value
	74.00	Peak Value

5.2 ANECHOIC CHAMBER TEST SETUP DIAGRAM

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



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



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+ Errata to C63.10a-2024. The specification used was the FCC 15.209 and FCC 15.205 limits.

5.3 TEST PROCEDURE

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

5.4 DEVIATION FROM TEST STANDARD

No deviation



5.5 TEST RESULT

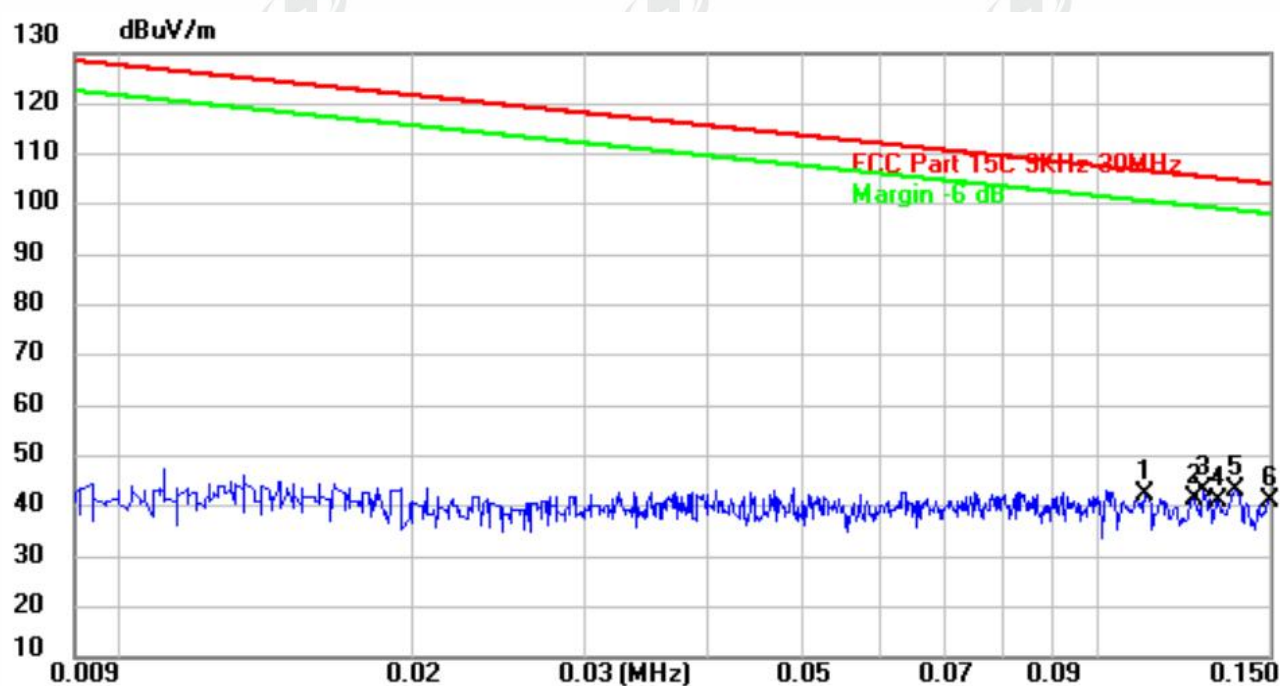
Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~150 kHz

Temperature:	24.2℃	Relative Humidity:	54.5%
Pressure:	101.4kPa	Polarization:	coaxial
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 13

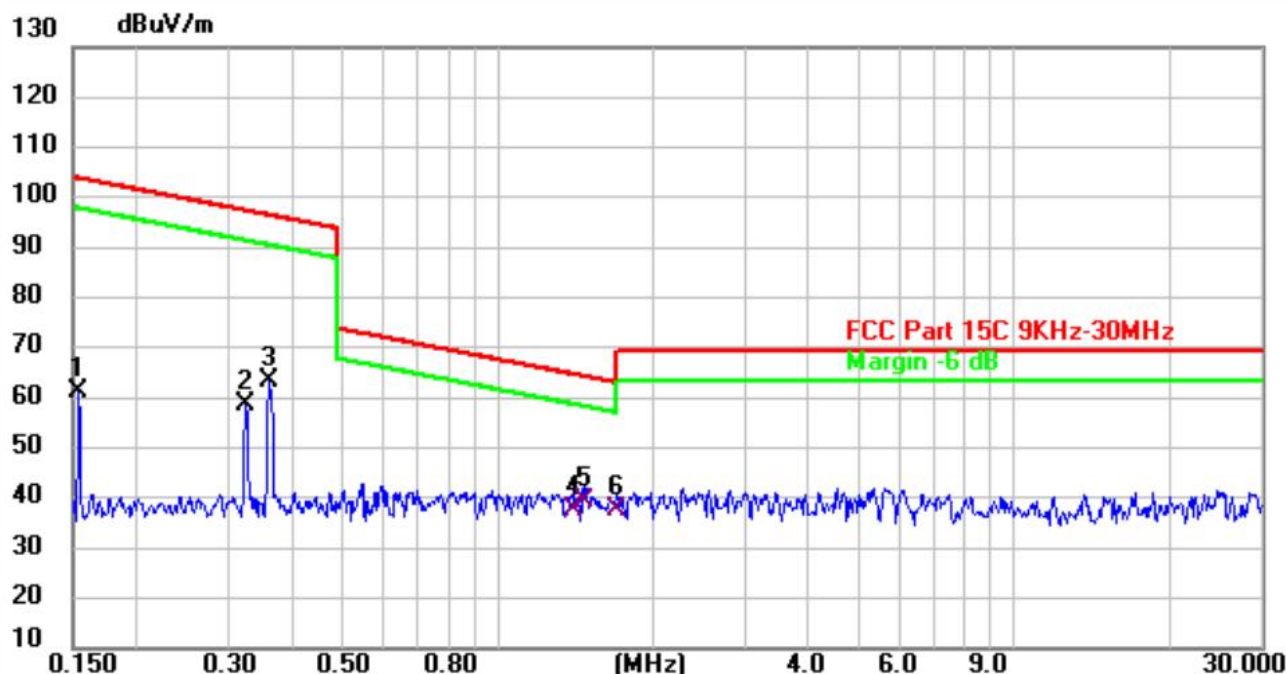


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	0.1121	22.02	20.20	42.22	106.61	-64.39	peak	-	-	P
2	0.1259	21.25	20.21	41.46	105.60	-64.14	peak	-	-	P
3	0.1282	22.85	20.21	43.06	105.45	-62.39	peak	-	-	P
4	0.1330	20.99	20.22	41.21	105.13	-63.92	peak	-	-	P
5 *	0.1386	22.86	20.22	43.08	104.77	-61.69	peak	-	-	P
6	0.1500	20.98	20.23	41.21	104.08	-62.87	peak	-	-	P



150 kHz~30 MHz

Temperature:	24.2℃	Relative Humidity:	54.5%
Pressure:	101.4kPa	Polarization:	coaxial
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 13



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	0.1541	40.86	20.23	61.09	103.85	-42.76	peak	-	-	P
2	0.3261	38.19	20.29	58.48	97.34	-38.86	peak	-	-	P
3	0.3600	43.02	20.30	63.32	96.48	-33.16	peak	-	-	P
4	1.4032	17.24	20.50	37.74	64.66	-26.92	QP	-	-	P
5 *	1.4640	18.96	20.50	39.46	64.29	-24.83	QP	-	-	P
6	1.6980	17.24	20.51	37.75	63.01	-25.26	QP	-	-	P

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Emission Level = Meter Reading - Factor

Margin = Emission Level- Limit.

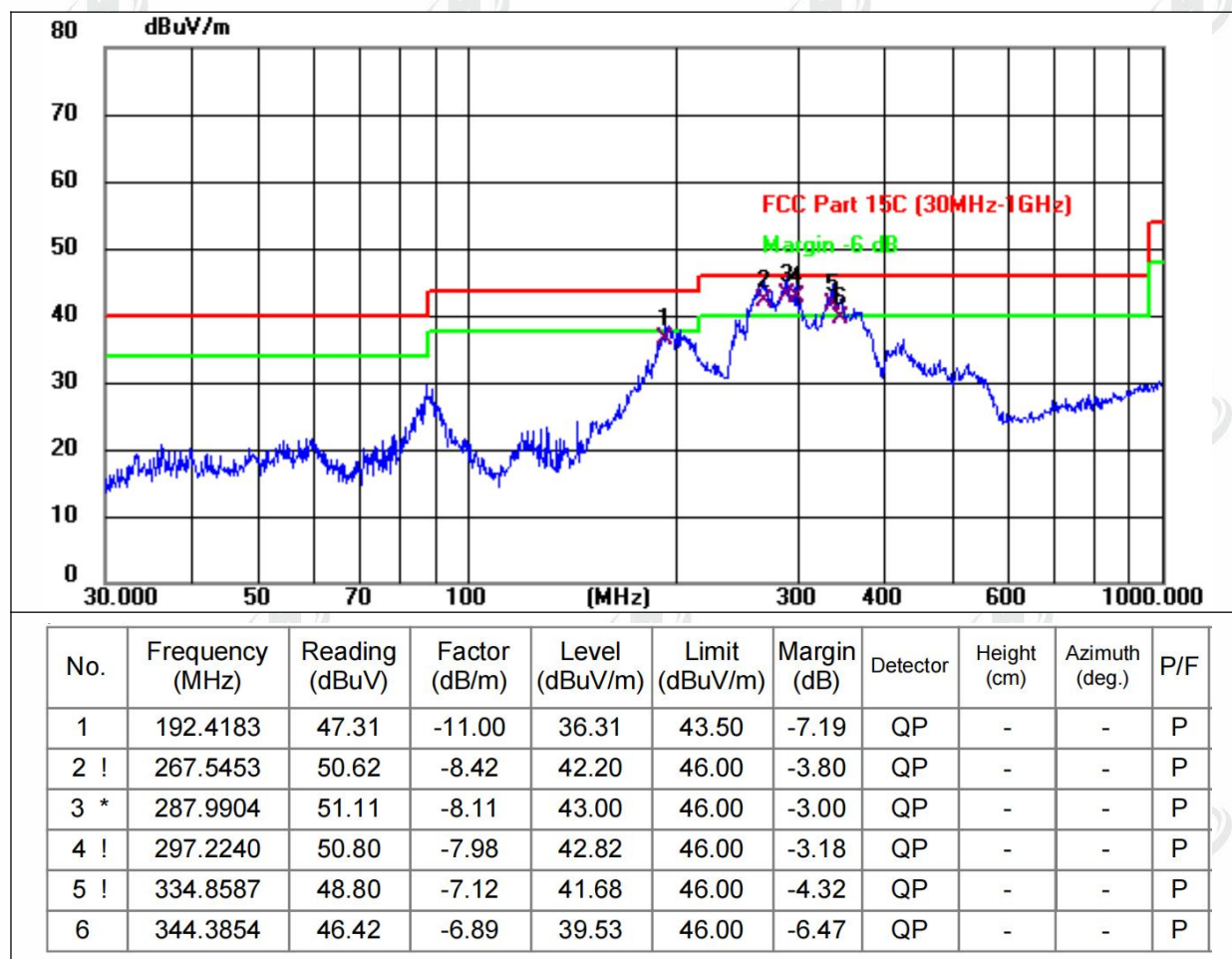
The amplitude of emissions which are attenuated by more than 20db below the permissible value has no need to be reported.

'-'Means the test Degree and Height are not recorded by the test software and only show the worstcase in the test report.



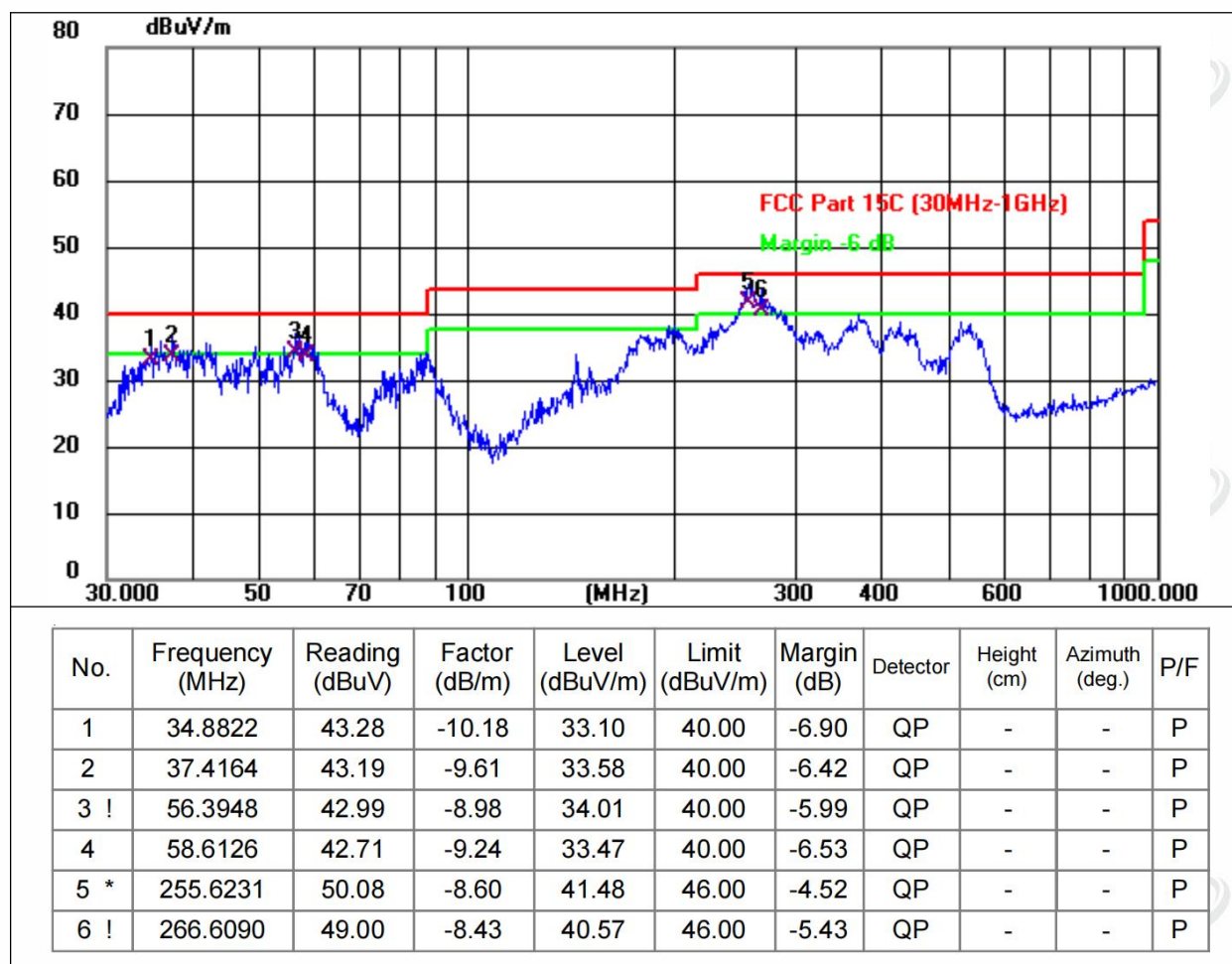
30MHz-1GHz

Temperature:	24.2℃	Relative Humidity:	54.5%
Pressure:	101.4kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 13





Temperature:	24.2°C	Relative Humidity:	54.5%
Pressure:	101.4kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Modes:	Mode 13



Remarks:

- Factor = Antenna Factor + Cable Loss – Preamplifier Factor
- Level = Reading + Factor
- Margin = Emission Level- Limit.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- !-Means the test Degree and Height are not recorded by the test software and only show the worstcase in the test report.



6. BANDWIDTH TEST

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.

TEST SETUP

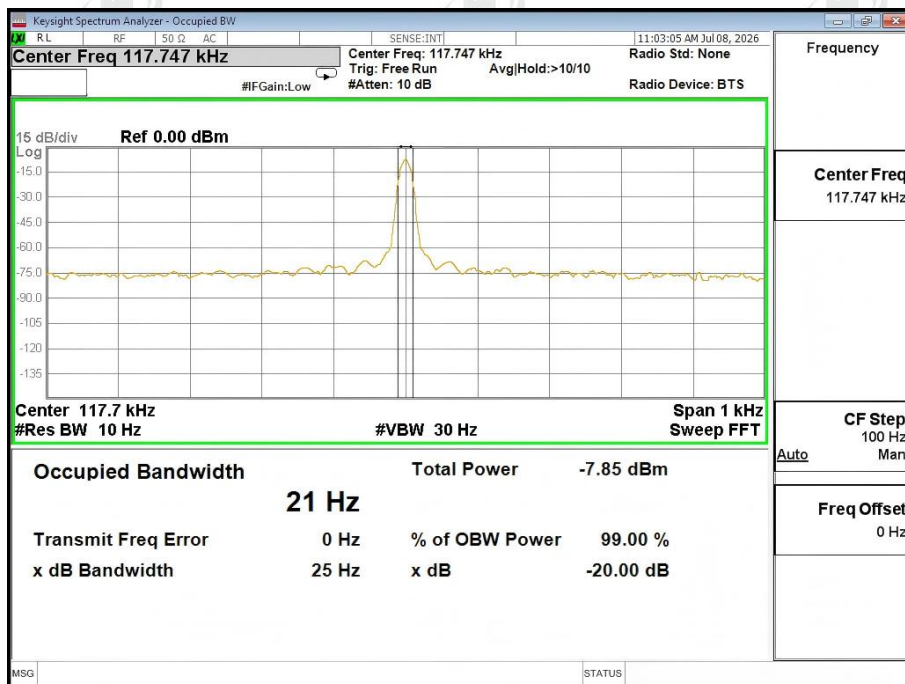




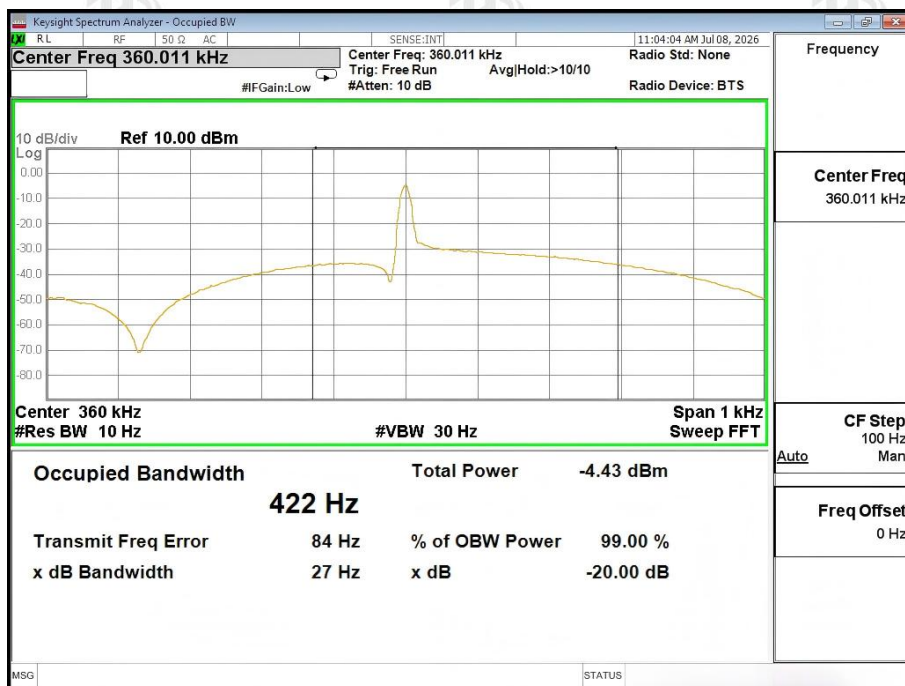
Temperature:	23.9°C	Relative Humidity:	54.2%
Pressure:	101.4kPa		

Coil	Frequency (kHz)	20dB bandwidth (kHz)	Result
Phone coil	117.7	0.025	Pass
	360	0.027	Pass
AirPods	154.1	0.098	Pass
Apple Watch	326.1	0.345	Pass

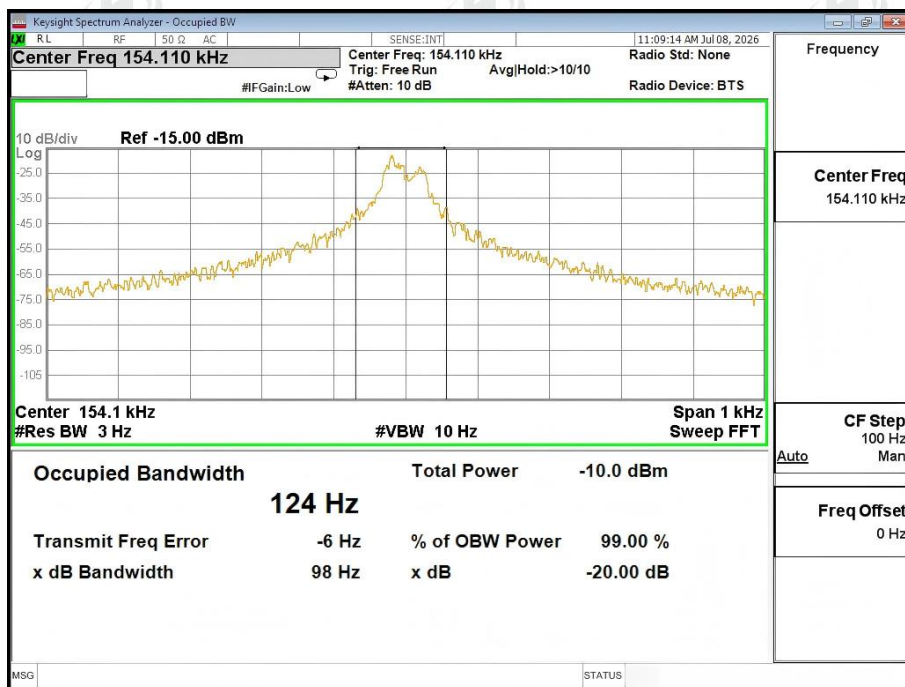
Phone coil



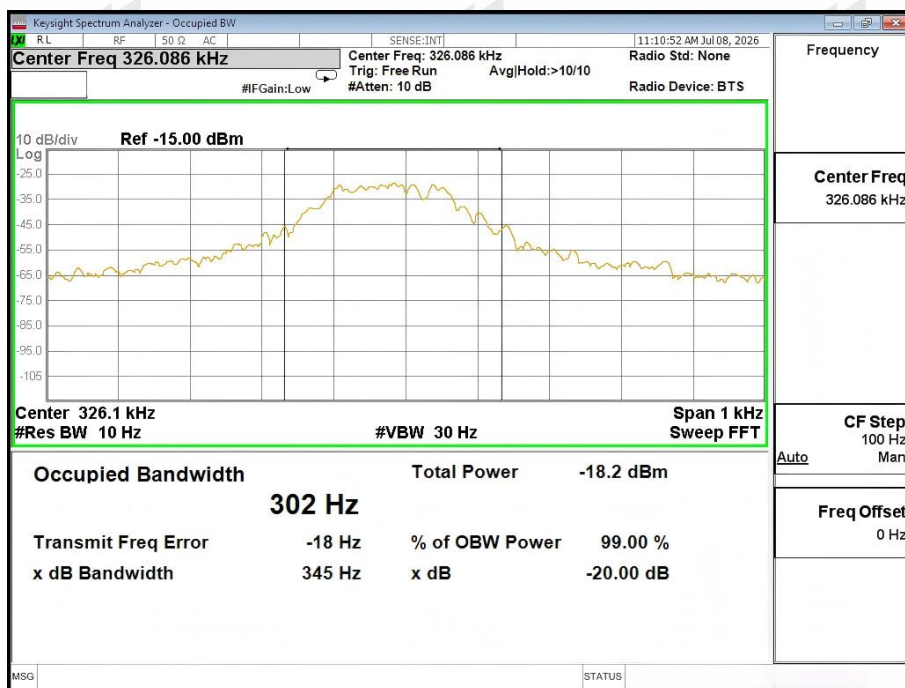
Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 10 Hz to perform the 20dB bandwidth test.



AirPods coil



Watch coil



7. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
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.	
EUT Antenna:	
The antenna is Inductive loop coil Antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details	

8. TEST SETUP PHOTO

Reference to the appendix I for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

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