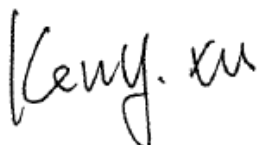


TEST REPORT

Application No.: SZCR2105021138AT
Applicant: SHENZHEN DNS INDUSTRIES CO., LTD.
Address of Applicant: 23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China
Manufacturer: SHENZHEN DNS INDUSTRIES CO., LTD..
Address of Manufacturer: 23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: WIRELESS CHARGER, 3 in 1 Wireless Charging Station
Model No.: WD-255A, B08LL3VCV9, CSQ3N1WT, CSQ3N1, WD-255E ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID: ZBCWD255E
Trade Mark: DNS, omars, mbest, NOVOO, KEYMOX, Scosche
Standard(s) : 47 CFR Part 15, Subpart C
Date of Receipt: 2021-05-21
Date of Test: 2021-05-29 to 2021-06-07
Date of Issue: 2021-06-10

Test Result:	Pass*
---------------------	--------------

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



Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-06-10		Original

Authorized for issue by:				
		Leo Li		
		Leo Li/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass
Restricted Bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass

N/A: No applicable

Declaration of EUT Family Grouping:

Model No.: WD-255A, B08LL3VCV9, CSQ3N1WT, CSQ3N1, WD-255E

Only the model WD-255A and WD-255E were tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model number, software, output power

Details see below:

Trade mark	Model number	Output Power	Software version
DNS,omars,mbest ,NOVOO,KEYMOX	WD-255A	15W	V02
,KEYMOX	B08LL3VCV9	15W	V02
Scosche	CSQ3N1WT	15W	V02
Scosche	CSQ3N1	15W	V02
DNS,omars,mbest ,NOVOO,KEYMOX	WD-255E	17.5W	V03



3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	6
4.1 DETAILS OF E.U.T.	6
4.2 DESCRIPTION OF SUPPORT UNITS	6
4.3 MEASUREMENT UNCERTAINTY	7
4.4 TEST LOCATION	8
4.5 TEST FACILITY	8
4.6 DEVIATION FROM STANDARDS	8
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	8
5 EQUIPMENT LIST	9
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	11
6.1 ANTENNA REQUIREMENT	11
6.1.1 Test Requirement:	11
6.1.2 Conclusion	11
7 RADIO SPECTRUM MATTER TEST RESULTS	12
7.1 CONDUCTED EMISSIONS AT AC MAINS POWER PORT (150kHz-30MHz)	12
7.1.1 E.U.T. Operation	12
7.1.2 Test Mode Description	12
7.1.3 Test Setup Diagram	13
7.1.4 Measurement Procedure and Data	14
7.2 RADIATED EMISSIONS (30MHz-1GHz)	23
7.2.1 E.U.T. Operation	23
7.2.2 Test Mode Description	23
7.2.3 Test Setup Diagram	24
7.2.4 Measurement Procedure and Data	25
7.3 RADIATED EMISSIONS (9kHz-30MHz)	32
7.3.1 E.U.T. Operation	32
7.3.2 Test Mode Description	33
7.3.3 Test Setup Diagram	34
7.3.4 Measurement Procedure and Data	34
7.4 20dB BANDWIDTH	39
7.4.1 E.U.T. Operation	39
7.4.2 Test Mode Description	39
7.4.3 Test Setup Diagram	40
7.4.4 Measurement Procedure and Data	40
7.5 RESTRICTED BANDS	44
7.5.1 E.U.T. Operation	44
7.5.2 Test Mode Description	44
7.5.3 Test Setup Diagram	45



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7.5.4	Measurement Procedure and Data.....	45
8	TEST SETUP PHOTO.....	49
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	49



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4 General Information

4.1 Details of E.U.T.

Power supply:	<p>WD-255A</p> <p>Input: 12V/1.5A</p> <p>Output 1: 5W/7.5W/10W</p> <p>Output 2: 2.5W</p> <p>Output 3: 2.5W</p> <p>Total: 15W</p> <p>WD-255E</p> <p>Input: 12V/1.5A</p> <p>Output 1: 5W/7.5W/10W</p> <p>Output 2: 2.5W</p> <p>Output 3: 5W</p> <p>Total: 17.5W</p>
Operation frequency:	<p>For Output 1: 112.0kHz to 148.2kHz</p> <p>For Output 2: 325.2kHz to 327.6kHz</p> <p>For Output 3: 113.6kHz to 174.8kHz</p>
Modulation type:	Load modulation
Antenna type:	Loop Antenna
Remark:	<p>Test modes 00-14 is for WD-255A; test modes 15-29 is for WD-255E</p> <p>For WD-255A:</p> <p>Output1 port which supports for 5W/7.5W/10W output is charged for client device (e.g. mobile phone).</p> <p>Output2 port which supports for 2.5W output is charged for iWatch.</p> <p>Output3 port which supports for 2.5W output is charged for Earphone.</p> <p>For WD-255E:</p> <p>Output1 port which supports for 5W/7.5W/10W output is charged for client device (e.g. mobile phone).</p> <p>Output2 port which supports for 2.5W output is charged for iWatch.</p> <p>Output3 port which supports for 5W output is charged for Earphone.</p>

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	XIAOMI	MDY-08	REF. No.SEA05M02F
iWatch	Apple	Apple Watch 3	N/A
Type-C Cable	SGS	N/A	REF. No.SEA07B00
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00
Earphone	Lier	TW101	REF. No.SEA05B04D

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
Radiated Emissions (30MHz-1GHz)	$\pm 4.5\text{dB}$
Radiated Emissions (9kHz-30MHz)	$\pm 4.5\text{dB}$
20dB Bandwidth	$\pm 3\%$
Restricted Bands	$\pm 3\%$



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2021-04-08	2022-04-07
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09

Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2020-11-02	2021-11-01
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2021-04-08	2022-04-07
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020-07-10	2021-07-09



20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

Restricted Bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021-03-23	2022-03-22

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard 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 use an 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, 15.221, or § 15.236. 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Refer to internal photos



7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 61.2 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	01	Charge mode_Keep the EUT charging(Output1: 7.5W)
Final test	02	Charge mode_Keep the EUT charging(Output1: 10W)
Pre-scan	03	Charge mode_Keep the EUT charging(Output2: 2.5W)
Pre-scan	04	Charge mode_Keep the EUT charging(Output3: 2.5W)
Pre-scan	05	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W)
Pre-scan	06	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W)
Pre-scan	07	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W)
Pre-scan	08	Charge mode_Keep the EUT charging(Output1: 5W+Output3: 2.5W)
Pre-scan	09	Charge mode_Keep the EUT charging(Output1: 7.5W+Output3: 2.5W)
Pre-scan	10	Charge mode_Keep the EUT charging(Output1: 10W+Output3: 2.5W)
Pre-scan	11	Charge mode_Keep the EUT charging(Output2: 2.5W+Output3: 2.5W)
Pre-scan	12	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	13	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W+Output3: 2.5W)
Final test	14	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	15	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	16	Charge mode_Keep the EUT charging(Output1: 7.5W)



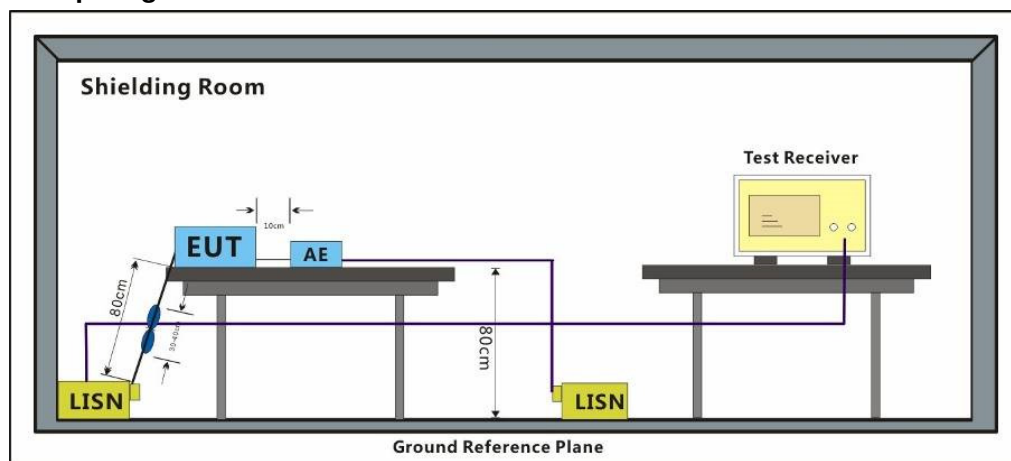
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Final test	17	Charge mode_Keep the EUT charging(Output1: 10W)
Pre-scan	18	Charge mode_Keep the EUT charging(Output2: 2.5W)
Pre-scan	19	Charge mode_Keep the EUT charging(Output3: 5W)
Pre-scan	20	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W)
Pre-scan	21	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W)
Pre-scan	22	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W)
Pre-scan	23	Charge mode_Keep the EUT charging(Output1: 5W+Output3: 5W)
Pre-scan	24	Charge mode_Keep the EUT charging(Output1: 7.5W+Output3: 5W)
Pre-scan	25	Charge mode_Keep the EUT charging(Output1: 10W+Output3: 5W)
Pre-scan	26	Charge mode_Keep the EUT charging(Output2: 2.5W+Output3: 5W)
Pre-scan	27	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W+Output3: 5W)
Pre-scan	28	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W+Output3: 5W)
Final test	29	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W+Output3: 5W)

7.1.3 Test Setup Diagram



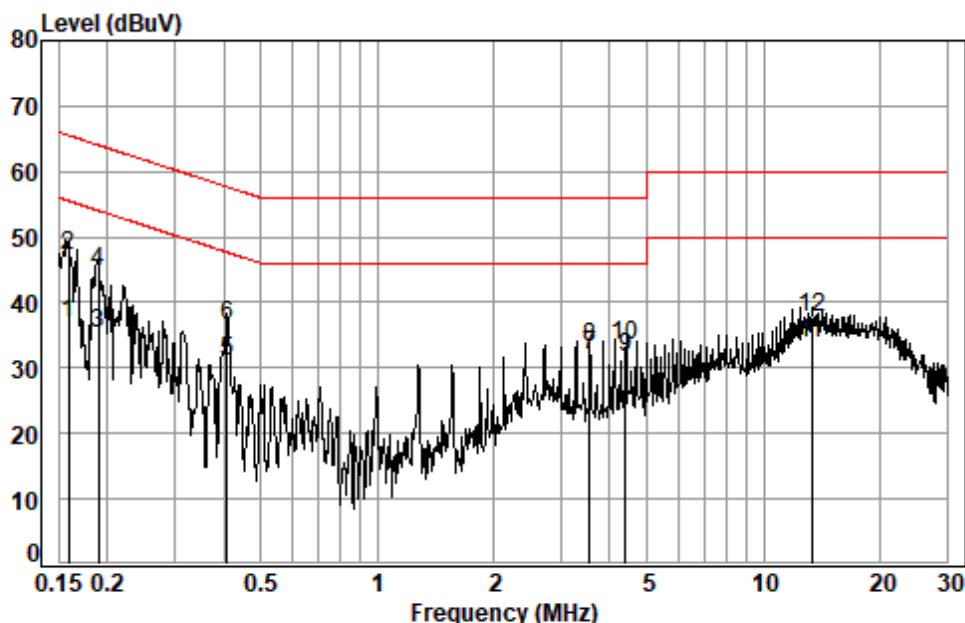
7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



Test Mode: 02; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 21138AT

Test mode: 02

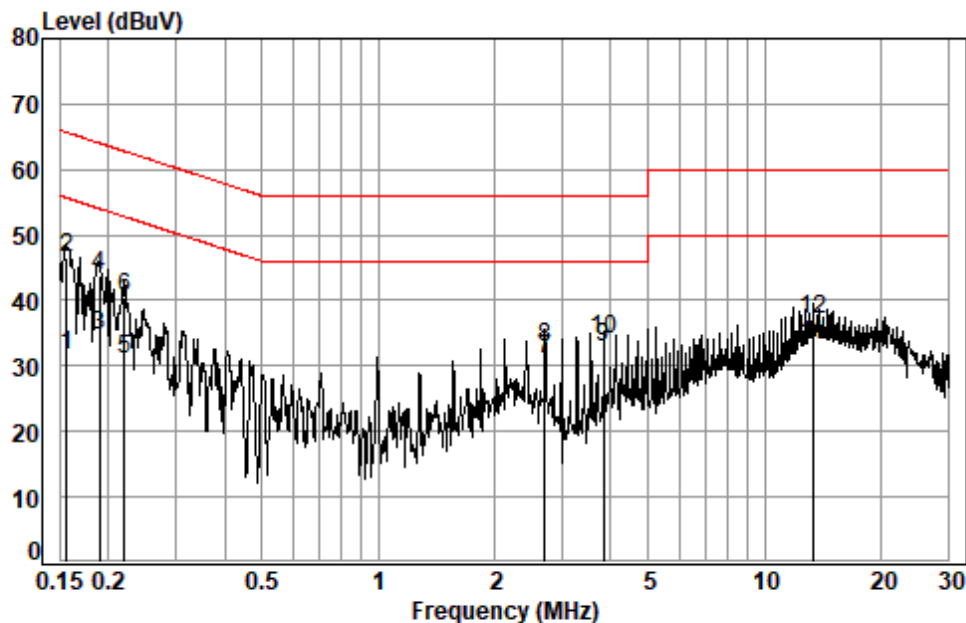
: WD-255A

	Cable	LISN	Read	Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1590	0.03	9.70	27.18	36.91	55.52 -18.61 Average
2	0.1590	0.03	9.70	37.50	47.23	65.52 -18.29 QP
3	0.1894	0.03	9.72	25.54	35.29	54.06 -18.77 Average
4	0.1894	0.03	9.72	34.91	44.66	64.06 -19.40 QP
5	0.4083	0.06	9.76	21.10	30.92	47.68 -16.76 Average
6	0.4083	0.06	9.76	26.63	36.45	57.68 -21.23 QP
7	3.5489	0.15	9.86	21.83	31.84	46.00 -14.16 Average
8	3.5489	0.15	9.86	23.27	33.28	56.00 -22.72 QP
9	4.4014	0.16	9.90	21.54	31.60	46.00 -14.40 Average
10	4.4014	0.16	9.90	23.31	33.37	56.00 -22.63 QP
11	13.3441	0.16	10.42	23.28	33.86	50.00 -16.14 Average
12	13.3441	0.16	10.42	27.02	37.60	60.00 -22.40 QP



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Test Mode: 02; Line: Neutral Line



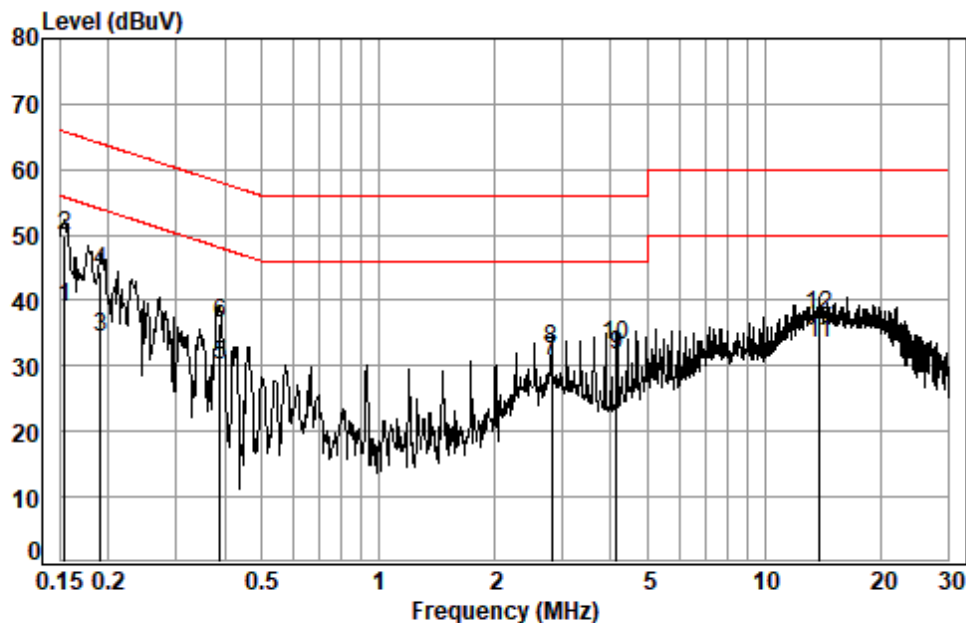
Site : Shielding Room
Condition: Neutral
Job No. : 21138AT
Test mode: 02
: WD-255A

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.03	9.71	21.97	31.71	55.69	-23.98	Average
2	0.1557	0.03	9.71	36.86	46.60	65.69	-19.09	QP
3	0.1894	0.03	9.72	24.81	34.56	54.06	-19.50	Average
4	0.1894	0.03	9.72	34.03	43.78	64.06	-20.28	QP
5	0.2208	0.04	9.72	21.15	30.91	52.79	-21.88	Average
6	0.2208	0.04	9.72	30.80	40.56	62.79	-22.23	QP
7	2.6973	0.14	9.83	21.09	31.06	46.00	-14.94	Average
8	2.6973	0.14	9.83	22.82	32.79	56.00	-23.21	QP
9	3.8325	0.15	9.87	22.92	32.94	46.00	-13.06	Average
10	3.8325	0.15	9.87	24.19	34.21	56.00	-21.79	QP
11	13.3418	0.16	10.43	22.72	33.31	50.00	-16.69	Average
12	13.3418	0.16	10.43	26.41	37.00	60.00	-23.00	QP



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Test Mode: 14; Line: Live line



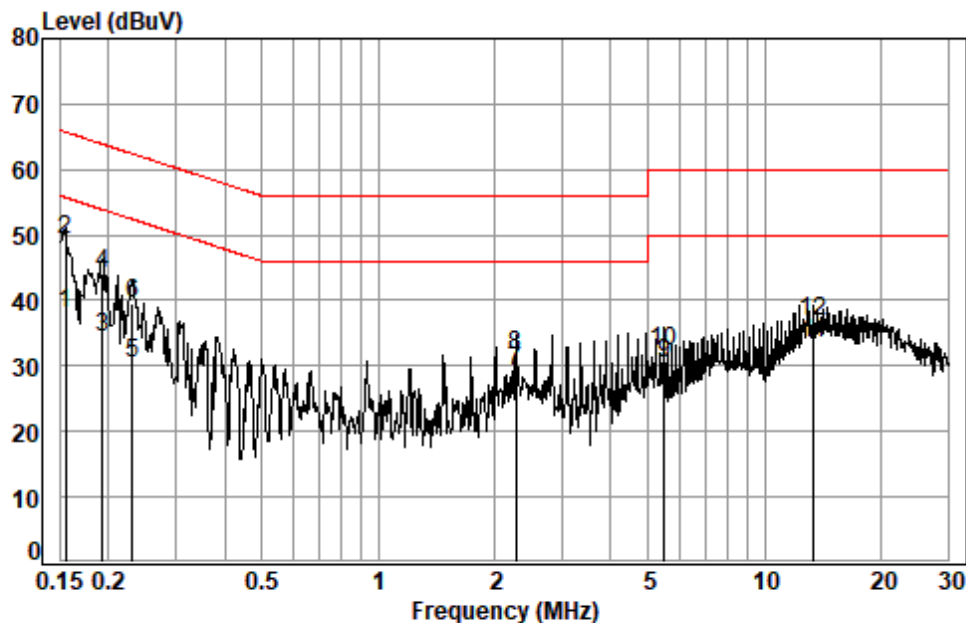
Site : Shielding Room
Condition: Line
Job No. : 21138AT
Test mode: 14
: WD-255A

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1540	0.03	9.70	29.26	38.99	55.78	-16.79 Average
2	0.1540	0.03	9.70	40.13	49.86	65.78	-15.92 QP
3	0.1914	0.04	9.72	24.50	34.26	53.98	-19.72 Average
4	0.1914	0.04	9.72	34.63	44.39	63.98	-19.59 QP
5	0.3893	0.06	9.76	20.22	30.04	48.08	-18.04 Average
6	0.3893	0.06	9.76	26.58	36.40	58.08	-21.68 QP
7	2.8126	0.14	9.83	20.89	30.86	46.00	-15.14 Average
8	2.8126	0.14	9.83	22.45	32.42	56.00	-23.58 QP
9	4.1417	0.15	9.89	21.55	31.59	46.00	-14.41 Average
10	4.1417	0.15	9.89	23.14	33.18	56.00	-22.82 QP
11	13.9291	0.16	10.46	22.93	33.55	50.00	-16.45 Average
12	13.9291	0.16	10.46	27.23	37.85	60.00	-22.15 QP



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Test Mode: 14; Line: Neutral Line

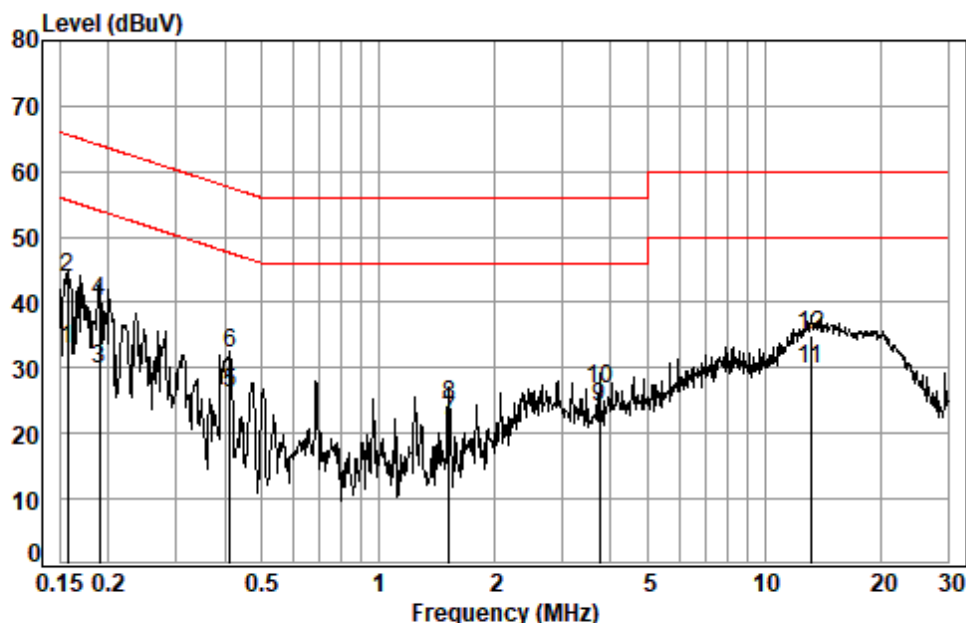


Site : Shielding Room
Condition: Neutral
Job No. : 21138AT
Test mode: 14
: WD-255A

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1548	0.03	9.71	28.43	38.17	55.74	-17.57	Average
2	0.1548	0.03	9.71	39.47	49.21	65.74	-16.53	QP
3	0.1934	0.04	9.72	24.57	34.33	53.89	-19.56	Average
4	0.1934	0.04	9.72	34.41	44.17	63.89	-19.72	QP
5	0.2304	0.04	9.73	20.56	30.33	52.44	-22.11	Average
6	0.2304	0.04	9.73	29.82	39.59	62.44	-22.85	QP
7	2.2767	0.13	9.82	19.39	29.34	46.00	-16.66	Average
8	2.2767	0.13	9.82	21.56	31.51	56.00	-24.49	QP
9	5.4903	0.16	9.96	20.37	30.49	50.00	-19.51	Average
10	5.4903	0.16	9.96	22.14	32.26	60.00	-27.74	QP
11	13.3882	0.16	10.43	22.80	33.39	50.00	-16.61	Average
12	13.3882	0.16	10.43	26.16	36.75	60.00	-23.25	QP



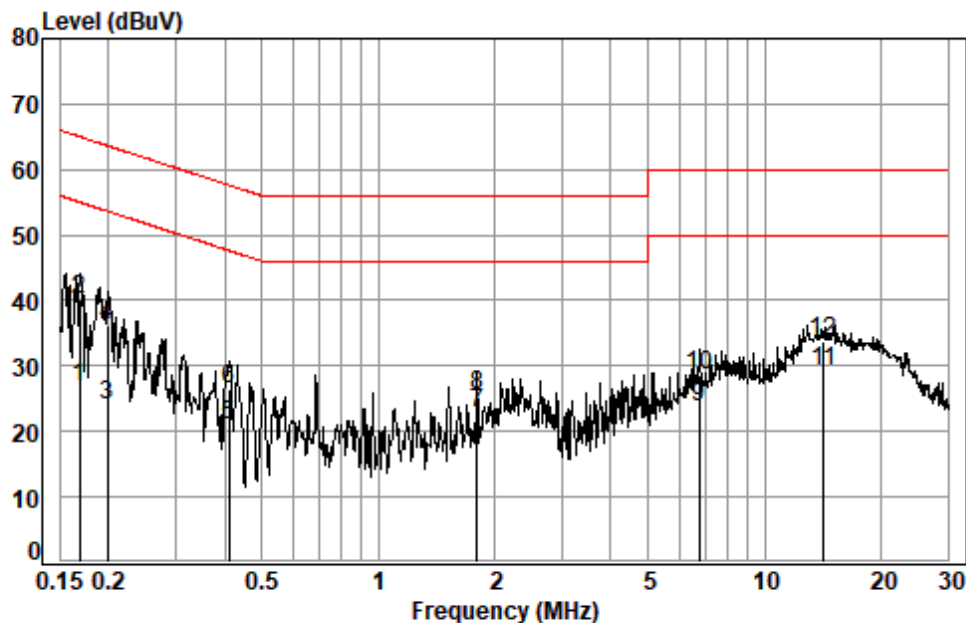
Test Mode: 17; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 21138AT
Test mode: 17
: WD-255E

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.03	9.70	22.99	32.72	55.60	-22.88	Average
2	0.1573	0.03	9.70	34.06	43.79	65.60	-21.81	QP
3	0.1894	0.03	9.72	20.04	29.79	54.06	-24.27	Average
4	0.1894	0.03	9.72	30.38	40.13	64.06	-23.93	QP
5	0.4127	0.07	9.76	16.37	26.20	47.59	-21.39	Average
6	0.4127	0.07	9.76	22.35	32.18	57.59	-25.41	QP
7	1.5217	0.12	9.80	11.95	21.87	46.00	-24.13	Average
8	1.5217	0.12	9.80	14.51	24.43	56.00	-31.57	QP
9	3.7338	0.15	9.87	13.98	24.00	46.00	-22.00	Average
10	3.7338	0.15	9.87	16.90	26.92	56.00	-29.08	QP
11	13.1402	0.16	10.41	19.35	29.92	50.00	-20.08	Average
12	13.1402	0.16	10.41	24.30	34.87	60.00	-25.13	QP

Test Mode: 17; Line: Neutral Line



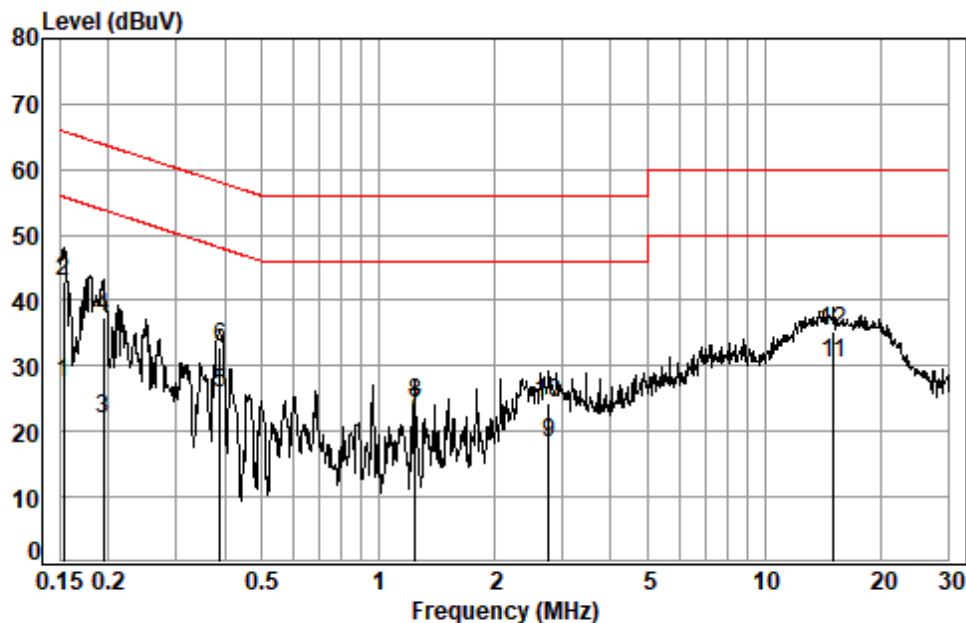
Site : Shielding Room
Condition: Neutral
Job No. : 21138AT
Test mode: 17
: WD-255E

	Cable	LISN	Read	Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit
MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1685	0.03	9.71	17.01	26.75	55.03
2	0.1685	0.03	9.71	30.42	40.16	65.03
3	0.1986	0.04	9.72	14.25	24.01	53.67
4	0.1986	0.04	9.72	26.57	36.33	63.67
5	0.4105	0.07	9.75	11.05	20.87	47.64
6	0.4105	0.07	9.75	16.56	26.38	57.64
7	1.7977	0.12	9.80	12.87	22.79	46.00
8	1.7977	0.12	9.80	15.56	25.48	56.00
9	6.7772	0.16	10.03	13.66	23.85	50.00
10	6.7772	0.16	10.03	18.30	28.49	60.00
11	14.2437	0.16	10.48	18.47	29.11	50.00
12	14.2437	0.16	10.48	23.00	33.64	60.00



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Test Mode: 29; Line: Live line

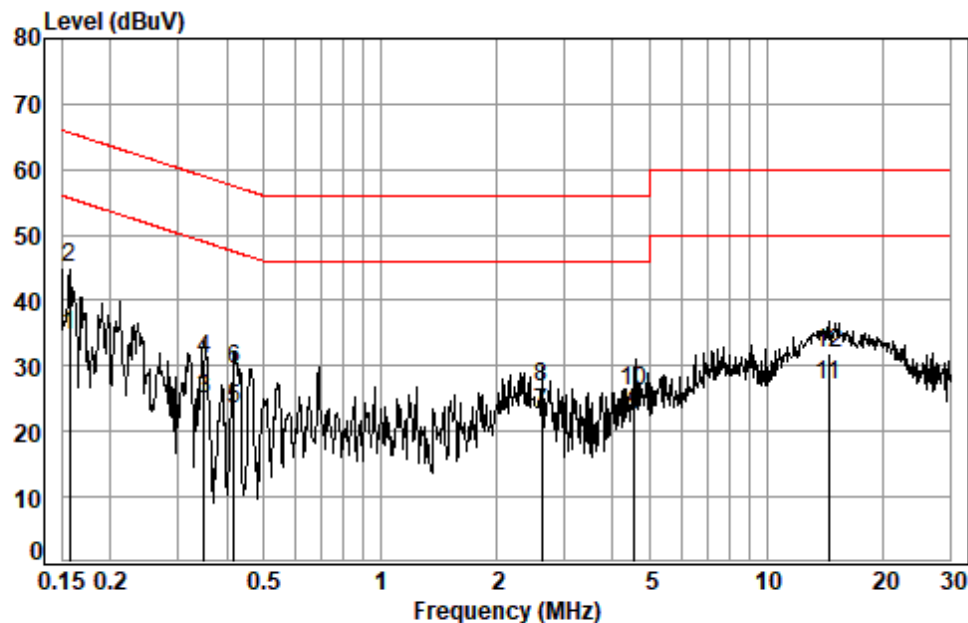


Site : Shielding Room
Condition: Line
Job No. : 21138AT
Test mode: 29
: WD-255E

	Cable	LISN	Read	Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1532	0.03	9.70	17.56	27.29	55.82 -28.53 Average
2	0.1532	0.03	9.70	33.09	42.82	65.82 -23.00 QP
3	0.1945	0.04	9.72	12.06	21.82	53.84 -32.02 Average
4	0.1945	0.04	9.72	27.55	37.31	63.84 -26.53 QP
5	0.3893	0.06	9.76	15.98	25.80	48.08 -22.28 Average
6	0.3893	0.06	9.76	23.13	32.95	58.08 -25.13 QP
7	1.2437	0.11	9.79	12.83	22.73	46.00 -23.27 Average
8	1.2437	0.11	9.79	14.39	24.29	56.00 -31.71 QP
9	2.7635	0.14	9.83	8.25	18.22	46.00 -27.78 Average
10	2.7635	0.14	9.83	14.31	24.28	56.00 -31.72 QP
11	15.0666	0.16	10.53	19.66	30.35	50.00 -19.65 Average
12	15.0666	0.16	10.53	24.73	35.42	60.00 -24.58 QP



Test Mode: 29; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 21138AT
Test mode: 29
: WD-255E

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.03	9.71	24.94	34.68	55.60	-20.92	Average
2	0.1573	0.03	9.71	35.22	44.96	65.60	-20.64	QP
3	0.3502	0.06	9.75	15.01	24.82	48.96	-24.14	Average
4	0.3502	0.06	9.75	21.08	30.89	58.96	-28.07	QP
5	0.4193	0.07	9.75	13.66	23.48	47.46	-23.98	Average
6	0.4193	0.07	9.75	19.63	29.45	57.46	-28.01	QP
7	2.6256	0.14	9.83	12.96	22.93	46.00	-23.07	Average
8	2.6256	0.14	9.83	16.86	26.83	56.00	-29.17	QP
9	4.5607	0.16	9.91	12.43	22.50	46.00	-23.50	Average
10	4.5607	0.16	9.91	16.22	26.29	56.00	-29.71	QP
11	14.5175	0.16	10.50	16.51	27.17	50.00	-22.83	Average
12	14.5175	0.16	10.50	21.28	31.94	60.00	-28.06	QP



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7.2 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.5

Measurement Distance: 10m

Limit:

Frequency(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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 49.9 % RH

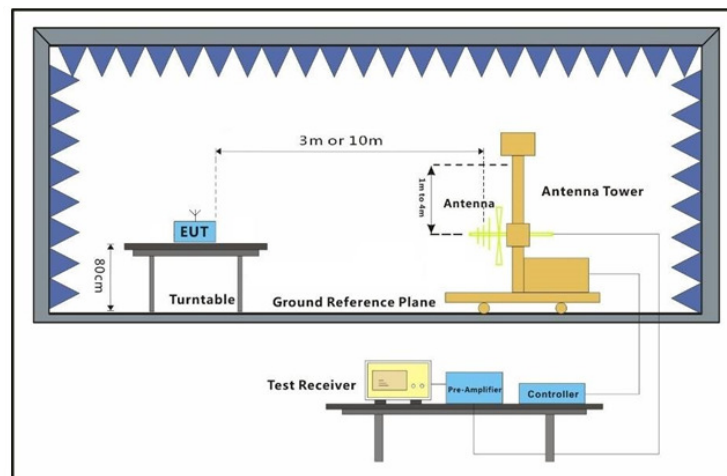
Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	01	Charge mode_Keep the EUT charging(Output1: 7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(Output1: 10W)
Pre-scan	03	Charge mode_Keep the EUT charging(Output2: 2.5W)
Pre-scan	04	Charge mode_Keep the EUT charging(Output3: 2.5W)
Pre-scan	05	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W)
Pre-scan	06	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W)
Pre-scan	07	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W)
Pre-scan	08	Charge mode_Keep the EUT charging(Output1: 5W+Output3: 2.5W)
Pre-scan	09	Charge mode_Keep the EUT charging(Output1: 7.5W+Output3: 2.5W)
Pre-scan	10	Charge mode_Keep the EUT charging(Output1: 10W+Output3: 2.5W)
Pre-scan	11	Charge mode_Keep the EUT charging(Output2: 2.5W+Output3: 2.5W)
Pre-scan	12	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	13	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W+Output3: 2.5W)

		2.5W)
Final test	14	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	15	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	16	Charge mode_Keep the EUT charging(Output1: 7.5W)
Pre-scan	17	Charge mode_Keep the EUT charging(Output1: 10W)
Pre-scan	18	Charge mode_Keep the EUT charging(Output2: 2.5W)
Pre-scan	19	Charge mode_Keep the EUT charging(Output3: 5W)
Pre-scan	20	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W)
Pre-scan	21	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W)
Pre-scan	22	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W)
Pre-scan	23	Charge mode_Keep the EUT charging(Output1: 5W+Output3: 5W)
Pre-scan	24	Charge mode_Keep the EUT charging(Output1: 7.5W+Output3: 5W)
Pre-scan	25	Charge mode_Keep the EUT charging(Output1: 10W+Output3: 5W)
Pre-scan	26	Charge mode_Keep the EUT charging(Output2: 2.5W+Output3: 5W)
Pre-scan	27	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W+Output3: 5W)
Pre-scan	28	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W+Output3: 5W)
Final test	29	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W+Output3: 5W)

7.2.3 Test Setup Diagram

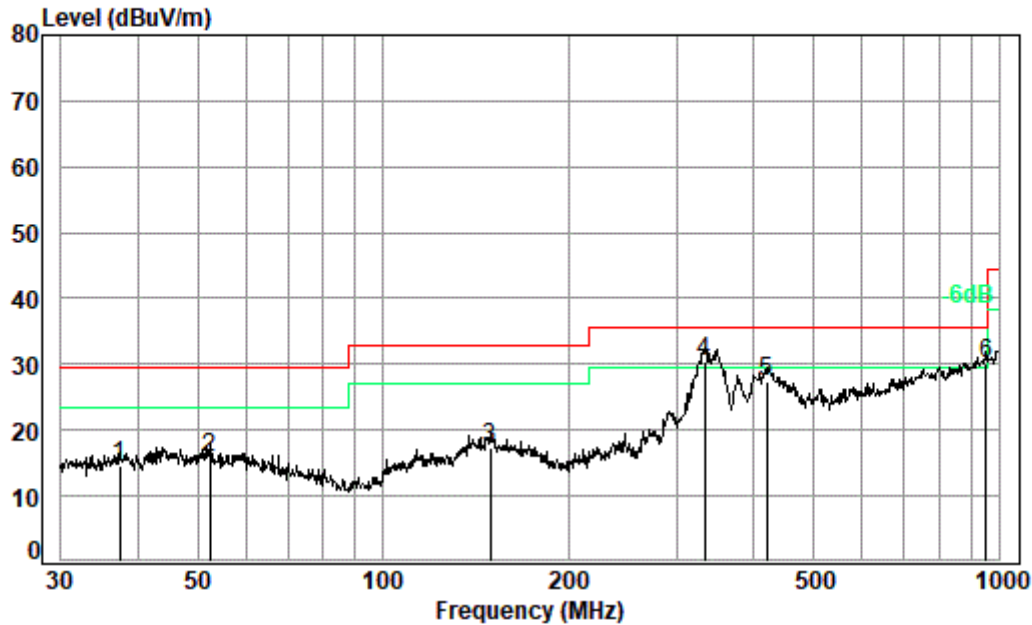


7.2.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
 - d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
 - g. Test the EUT in the lowest channel, the middle channel, the Highest channel
 - h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
 - i. Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 14; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 21138AT

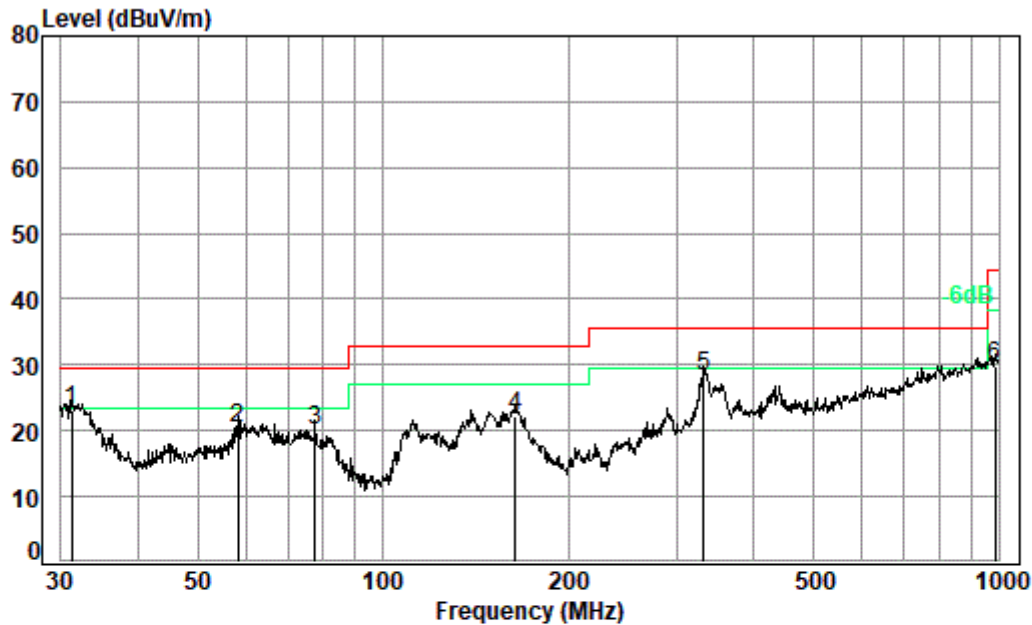
Test Mode: 14

: WD-255A

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	37.416	26.39	19.86	0.92	32.50	14.67	29.50	-14.83	QP
2	52.391	27.38	19.94	0.98	32.50	15.80	29.50	-13.70	QP
3	149.486	28.02	20.18	1.48	32.42	17.26	33.00	-15.74	QP
4 pp	332.519	40.11	20.50	2.26	32.36	30.51	35.60	-5.09	QP
5	419.108	34.90	22.27	2.45	32.30	27.32	35.60	-8.28	QP
6	952.094	27.66	29.86	3.56	31.12	29.96	35.60	-5.64	QP



Test Mode: 14; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 21138AT

Test Mode: 14

: WD-255A

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	pp	31.289	36.06	18.67	0.88	32.50	23.11	29.50	-6.39 QP
2		58.203	32.23	19.64	1.03	32.49	20.41	29.50	-9.09 QP
3		77.593	35.82	15.50	1.15	32.47	20.00	29.50	-9.50 QP
4		164.330	33.60	19.58	1.52	32.41	22.29	33.00	-10.71 QP
5		331.355	37.90	20.50	2.25	32.37	28.28	35.60	-7.32 QP
6		986.072	26.76	30.26	3.67	30.82	29.87	44.40	-14.53 QP



The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L_3 : Level @ 3m distance. Unit: $\mu\text{V/m}$;

L_{10} : Level @ 10m distance. Unit: $\mu\text{V/m}$;

D_3 : 3m distance. Unit: m

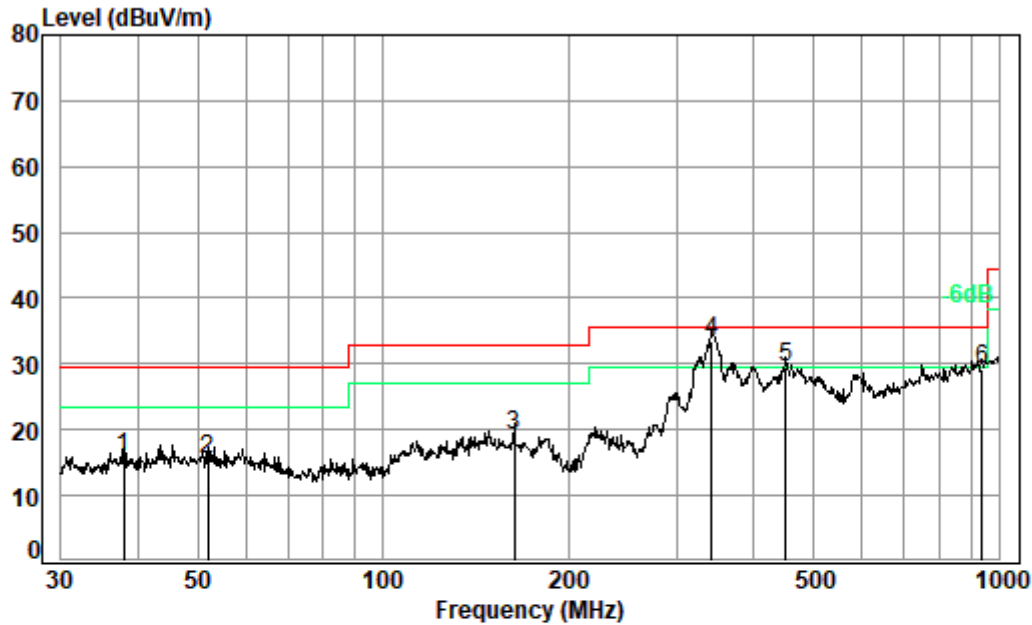
D_{10} : 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m ($\mu\text{V/m}$)	Level @ 3m ($\mu\text{V/m}$)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
31.289	23.11	14.31	47.68	33.57	40.00	-6.43	V
58.203	20.41	10.48	34.94	30.87	40.00	-9.13	V
77.593	20	10.00	33.33	30.46	40.00	-9.54	V
164.33	22.29	13.02	43.39	32.75	43.50	-10.75	V
331.355	28.28	25.94	86.47	38.74	46.00	-7.26	V
986.072	29.87	31.15	103.84	40.33	54.00	-13.67	V
37.416	14.67	5.41	18.05	25.13	40.00	-14.87	H
52.391	15.8	6.17	20.55	26.26	40.00	-13.74	H
149.486	17.26	7.29	24.32	27.72	43.50	-15.78	H
332.519	30.51	33.54	111.78	40.97	46.00	-5.03	H
419.108	27.32	23.23	77.42	37.78	46.00	-8.22	H
952.094	29.96	31.48	104.92	40.42	46.00	-5.58	H



Test Mode: 29; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 21139AT

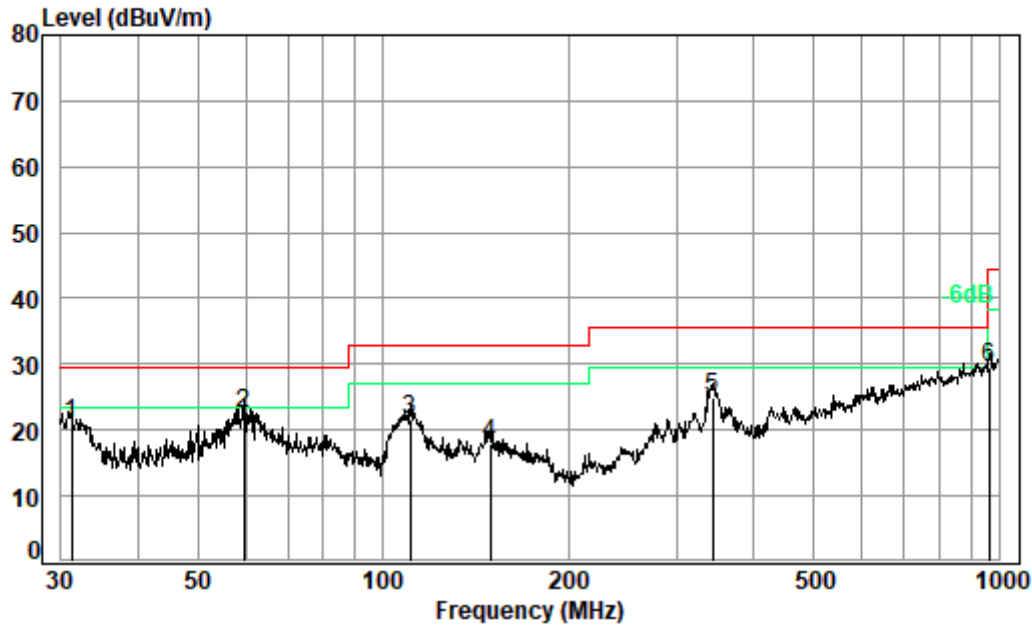
Test Mode: 29

: WD-255E

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	37.945	27.32	19.99	0.92	32.50	15.73	29.50	-13.77	QP
2	52.025	27.23	19.90	0.98	32.50	15.61	29.50	-13.89	QP
3	163.182	30.49	19.64	1.52	32.41	19.24	33.00	-13.76	QP
4 pp	341.979	42.99	20.50	2.31	32.35	33.45	35.60	-2.15	QP
5	451.135	35.61	23.51	2.61	32.30	29.43	35.60	-6.17	QP
6	938.833	26.96	29.80	3.53	31.24	29.05	35.60	-6.55	QP



Test Mode: 29; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 21139AT

Test Mode: 29

: WD-255E

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	31.289	33.85	18.67	0.88	32.50	20.90	29.50	-8.60	QP
2	pp 59.441	34.66	19.27	1.05	32.49	22.49	29.50	-7.01	QP
3	110.569	36.37	16.35	1.30	32.44	21.58	33.00	-11.42	QP
4	149.486	28.82	20.18	1.48	32.42	18.06	33.00	-14.94	QP
5	343.180	34.43	20.50	2.32	32.35	24.90	35.60	-10.70	QP
6	965.542	27.04	29.98	3.60	31.00	29.62	44.40	-14.78	QP



The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L_3 : Level @ 3m distance. Unit: $\mu\text{V/m}$;

L_{10} : Level @ 10m distance. Unit: $\mu\text{V/m}$;

D_3 : 3m distance. Unit: m

D_{10} : 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level 10m (dBuV/m) @	Level @ 10m ($\mu\text{V/m}$)	Level @ 3m ($\mu\text{V/m}$)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
31.29	20.90	11.09	36.97	31.36	40.00	-8.64	V
59.44	22.49	13.32	44.40	32.95	40.00	-7.05	V
110.57	21.58	11.99	39.98	32.04	43.50	-11.46	V
149.49	18.06	8.00	26.66	28.52	43.50	-14.98	V
343.18	24.90	17.58	58.60	35.36	46.00	-10.64	V
965.54	29.62	30.27	100.90	40.08	54.00	-13.92	V
37.95	15.73	6.12	20.39	26.19	40.00	-13.81	H
52.03	15.61	6.03	20.11	26.07	40.00	-13.93	H
163.18	19.24	9.16	30.54	29.70	43.50	-13.80	H
341.98	33.45	47.04	156.81	43.91	46.00	-2.09	H
451.14	29.43	29.61	98.71	39.89	46.00	-6.11	H
938.83	29.05	28.35	94.49	39.51	46.00	-6.49	H



7.3 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4

Measurement Distance: 3m

Limit:

Frequency(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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\} \quad (4)$$

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where f_{MHz} is the frequency of the emission being measured in MHz.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 49.9 % RH

Atmospheric Pressure: 1010 mbar



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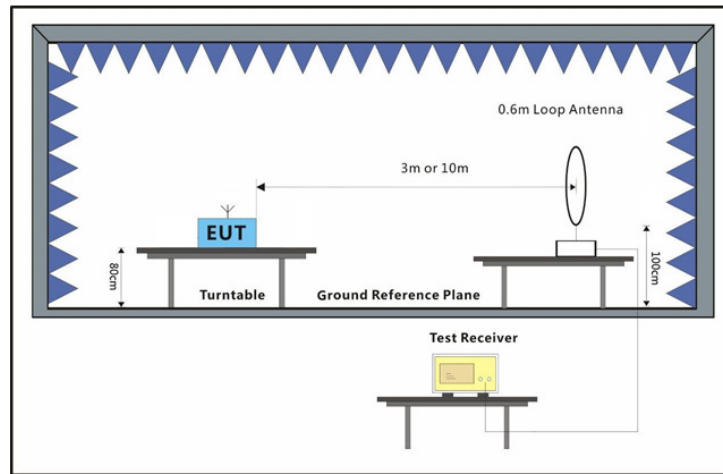
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7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	01	Charge mode_Keep the EUT charging(Output1: 7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(Output1: 10W)
Pre-scan	03	Charge mode_Keep the EUT charging(Output2: 2.5W)
Pre-scan	04	Charge mode_Keep the EUT charging(Output3: 2.5W)
Pre-scan	05	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W)
Pre-scan	06	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W)
Pre-scan	07	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W)
Pre-scan	08	Charge mode_Keep the EUT charging(Output1: 5W+Output3: 2.5W)
Pre-scan	09	Charge mode_Keep the EUT charging(Output1: 7.5W+Output3: 2.5W)
Pre-scan	10	Charge mode_Keep the EUT charging(Output1: 10W+Output3: 2.5W)
Pre-scan	11	Charge mode_Keep the EUT charging(Output2: 2.5W+Output3: 2.5W)
Pre-scan	12	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	13	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W+Output3: 2.5W)
Final test	14	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	15	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	16	Charge mode_Keep the EUT charging(Output1: 7.5W)
Pre-scan	17	Charge mode_Keep the EUT charging(Output1: 10W)
Pre-scan	18	Charge mode_Keep the EUT charging(Output2: 2.5W)
Pre-scan	19	Charge mode_Keep the EUT charging(Output3: 5W)
Pre-scan	20	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W)
Pre-scan	21	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W)
Pre-scan	22	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W)
Pre-scan	23	Charge mode_Keep the EUT charging(Output1: 5W+Output3: 5W)
Pre-scan	24	Charge mode_Keep the EUT charging(Output1: 7.5W+Output3: 5W)
Pre-scan	25	Charge mode_Keep the EUT charging(Output1: 10W+Output3: 5W)
Pre-scan	26	Charge mode_Keep the EUT charging(Output2: 2.5W+Output3: 5W)
Pre-scan	27	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W+Output3: 5W)
Pre-scan	28	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W+Output3: 5W)
Final test	29	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W+Output3: 5W)

7.3.3 Test Setup Diagram



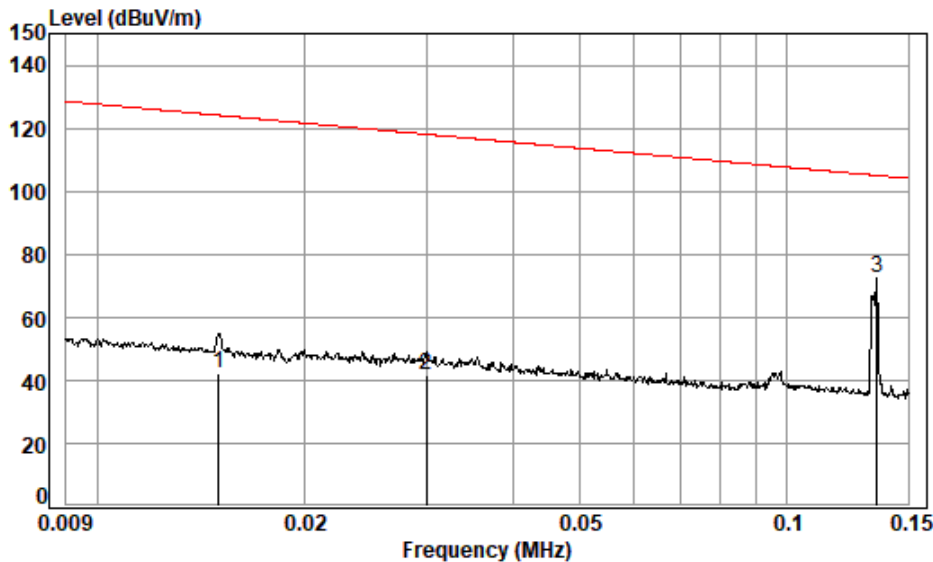
7.3.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



For WD-255A:

9kHz-150kHz



Condition: 3m

Job No. : 21138AT

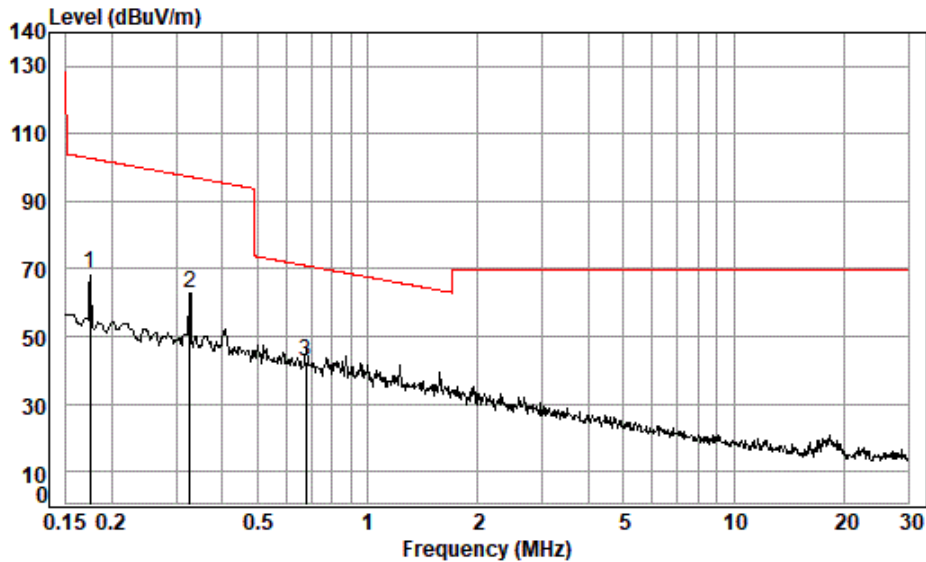
Test Mode: 29

: WD-255A

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.015	57.73	16.00	0.01	31.73	42.01	124.10	-82.09	Average
2	0.030	61.37	12.65	0.01	32.17	41.86	118.06	-76.20	Average
3 pp	0.135	94.02	11.01	0.02	32.50	72.55	104.99	-32.44	Average



150kHz-30MHz



Condition: 3m

Job No. : 21138AT

Test Mode: 14

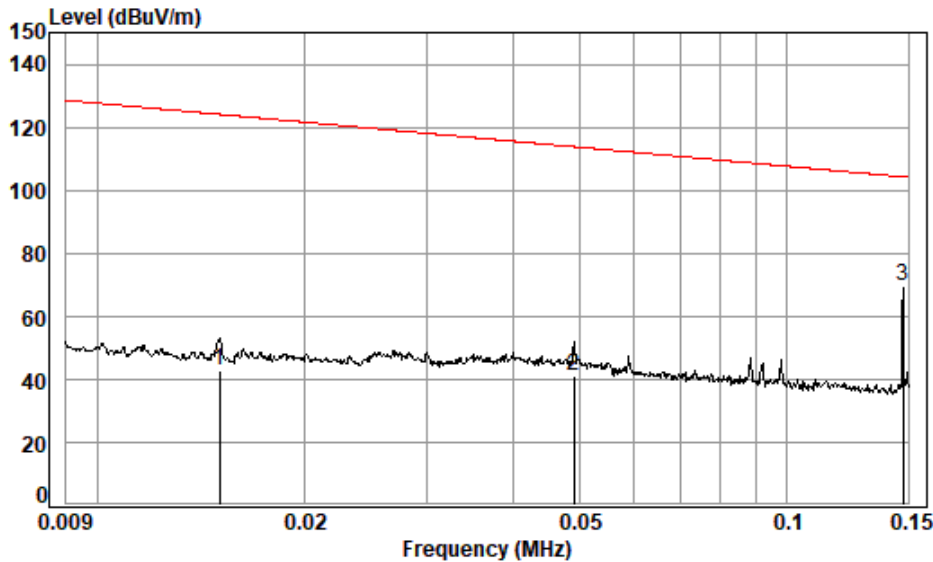
: WD-255A

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.175	90.03	10.97	0.08	32.50	68.58	102.75	-34.17	Average
2	0.327	84.28	10.88	0.29	32.50	62.95	97.32	-34.37	Average
3 pp	0.679	63.49	10.83	0.60	32.50	42.42	70.97	-28.55	QP



For WD-255E:

9kHz-150kHz



Condition: 3m

Job No. : 21138AT

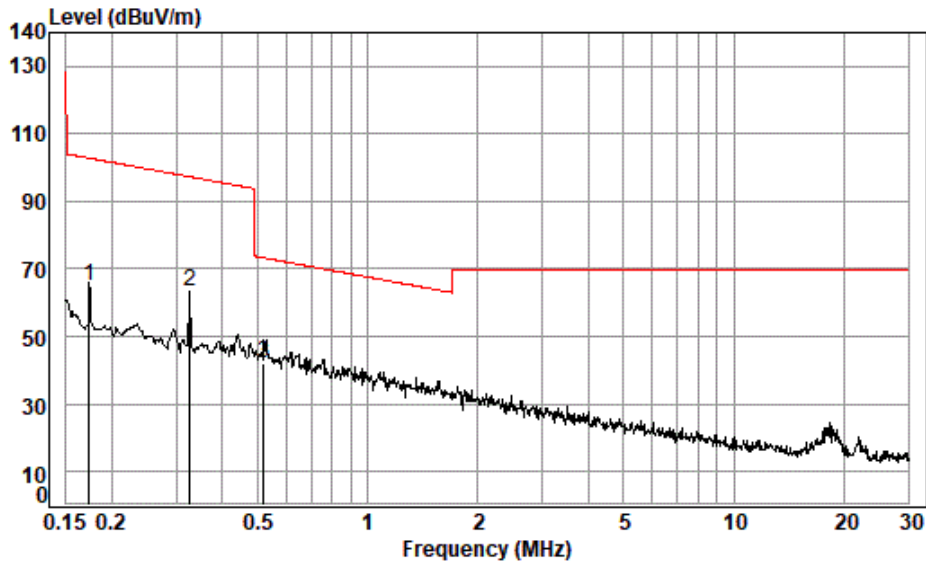
Test Mode: 29

: WD-255E

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.015	58.52	15.98	0.01	31.73	42.78	124.07	-81.29	Average
2	0.049	61.86	11.60	0.01	32.49	40.98	113.78	-72.80	Average
3 pp	0.147	90.86	10.99	0.02	32.50	69.37	104.23	-34.86	Average



150kHz-30MHz



Condition: 3m

Job No. : 21138AT

Test Mode: 29

: WD-225E

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.174	86.63	10.97	0.08	32.50	65.18	102.79	-37.61	Average
2	0.327	84.74	10.88	0.29	32.50	63.41	97.32	-33.91	Average
3 pp	0.521	63.16	10.85	0.49	32.50	42.00	73.27	-31.27	QP



7.4 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2013) Section 6.9.2
Limit: For report reference only

7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 22.9 °C Humidity: 43.4 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	01	Charge mode_Keep the EUT charging(Output1: 7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(Output1: 10W)
Pre-scan	03	Charge mode_Keep the EUT charging(Output2: 2.5W)
Pre-scan	04	Charge mode_Keep the EUT charging(Output3: 2.5W)
Pre-scan	05	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W)
Pre-scan	06	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W)
Pre-scan	07	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W)
Pre-scan	08	Charge mode_Keep the EUT charging(Output1: 5W+Output3: 2.5W)
Pre-scan	09	Charge mode_Keep the EUT charging(Output1: 7.5W+Output3: 2.5W)
Pre-scan	10	Charge mode_Keep the EUT charging(Output1: 10W+Output3: 2.5W)
Pre-scan	11	Charge mode_Keep the EUT charging(Output2: 2.5W+Output3: 2.5W)
Pre-scan	12	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	13	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	14	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	15	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	16	Charge mode_Keep the EUT charging(Output1: 7.5W)
Final test	17	Charge mode_Keep the EUT charging(Output1: 10W)
Final test	18	Charge mode_Keep the EUT charging(Output2: 2.5W)
Final test	19	Charge mode_Keep the EUT charging(Output3: 5W)
Pre-scan	20	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W)
Pre-scan	21	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W)
Pre-scan	22	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W)
Pre-scan	23	Charge mode_Keep the EUT charging(Output1: 5W+Output3: 5W)
Pre-scan	24	Charge mode_Keep the EUT charging(Output1: 7.5W+Output3: 5W)
Pre-scan	25	Charge mode_Keep the EUT charging(Output1: 10W+Output3: 5W)
Pre-scan	26	Charge mode_Keep the EUT charging(Output2: 2.5W+Output3: 5W)

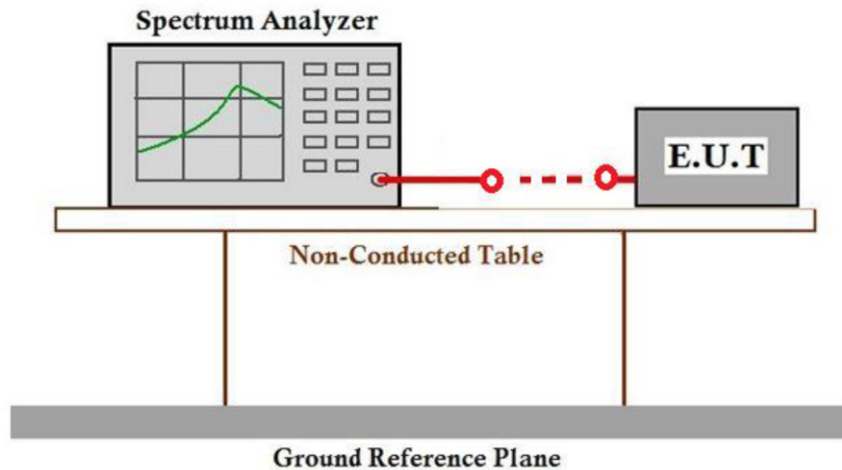


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Pre-scan	27	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W+Output3: 5W)
Pre-scan	28	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W+Output3: 5W)
Pre-scan	29	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W+Output3: 5W)

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data



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Mode 19:

Test Frequency(KHz)	20dB bandwidth (KHz)	Limit (KHz)	Results
173.5	0.026	N/A	Pass

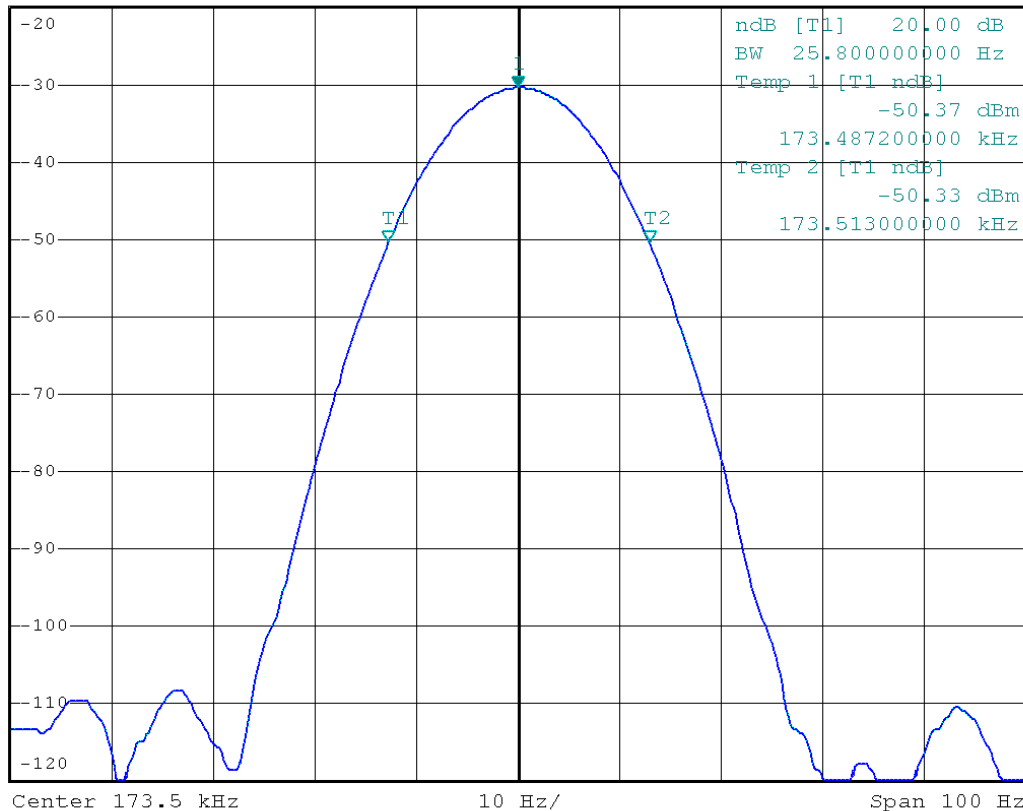


*RBW 10 Hz Marker 1 [T1]
*VBW 30 Hz -30.46 dBm
SWT 1 s 173.50000000 kHz

Ref -20 dBm

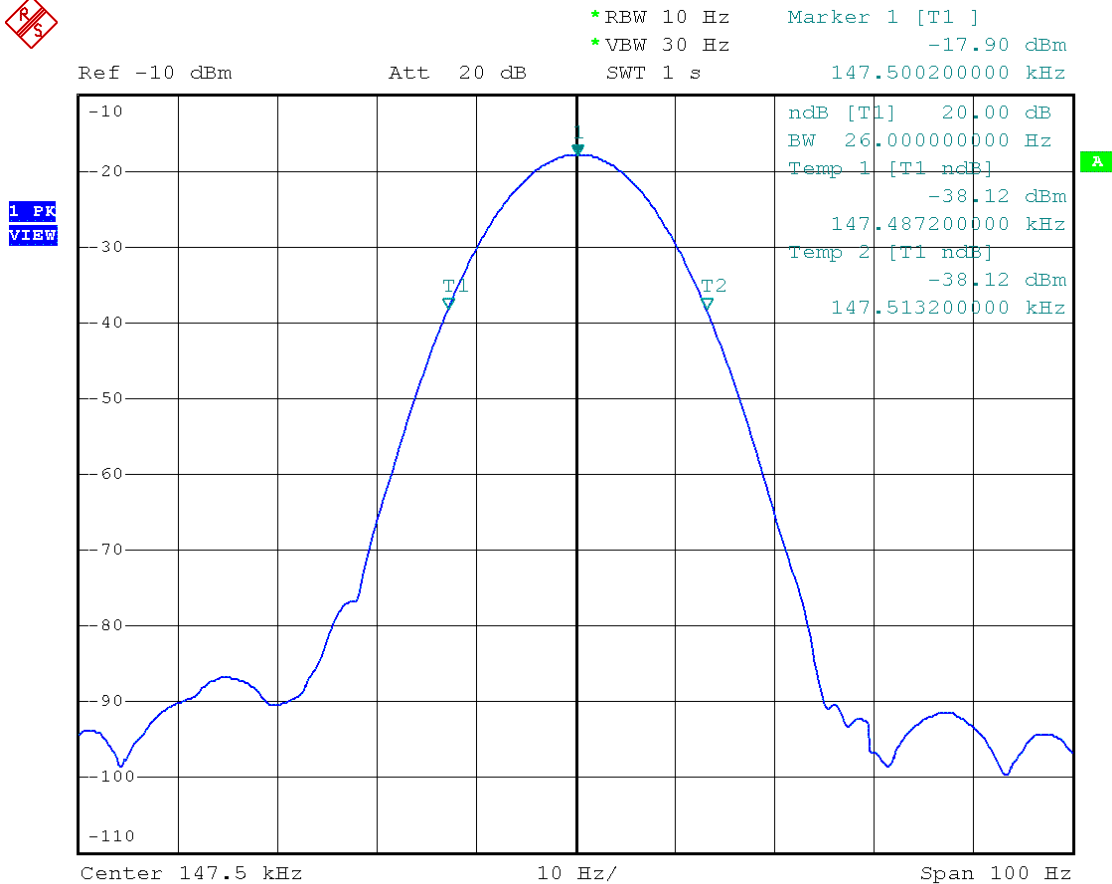
Att 10 dB

1 PK
VIEW



Mode 17:

Test Frequency(KHz)	20dB bandwidth (KHz)	Limit (KHz)	Results
147.5	0.026	N/A	Pass



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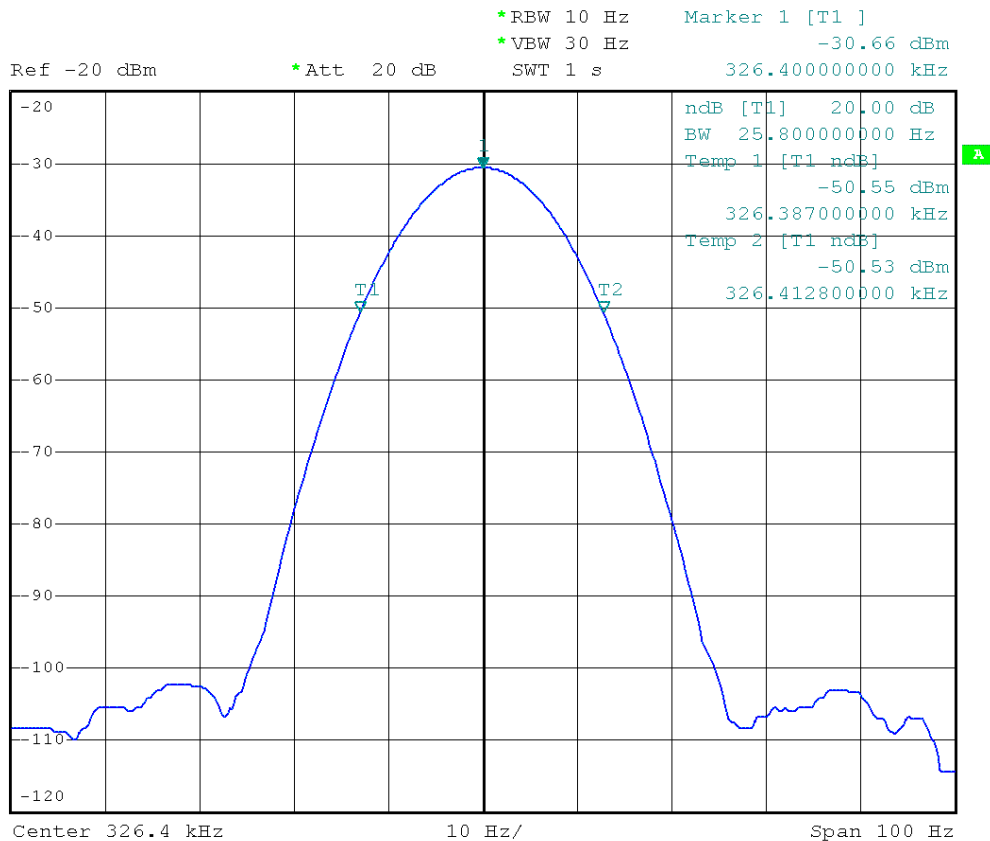
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Mode 18:

Test Frequency(KHz)	20dB bandwidth (KHz)	Limit (KHz)	Results
326.4	0.026	N/A	Pass



1. PK
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7.5 Restricted Bands

Test Requirement 47 CFR Part 15, Subpart C 15.205
Test Method: ANSI C63.10 (2013) Section 6.10.5
Limit: The fundamental wave could not fall in the restricted band 90KHz-110KHz and 0.495-0.505 MHz

7.5.1 E.U.T. Operation

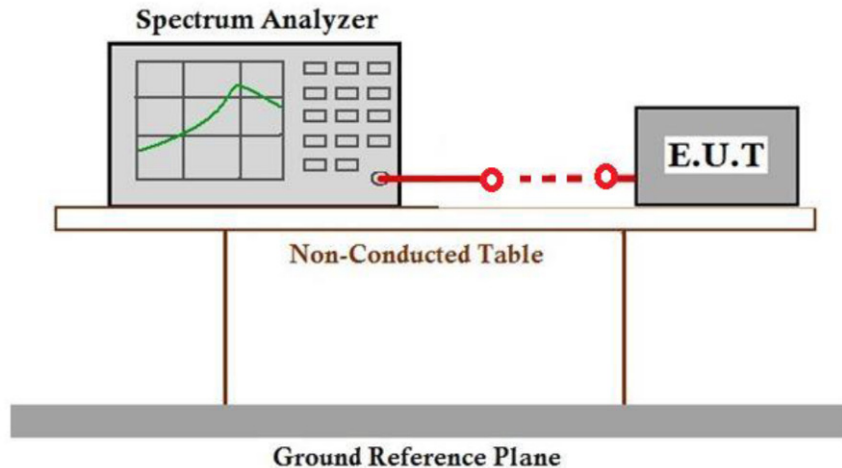
Operating Environment:
Temperature: 22.9 °C Humidity: 43.4 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	01	Charge mode_Keep the EUT charging(Output1: 7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(Output1: 10W)
Pre-scan	03	Charge mode_Keep the EUT charging(Output2: 2.5W)
Pre-scan	04	Charge mode_Keep the EUT charging(Output3: 2.5W)
Pre-scan	05	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W)
Pre-scan	06	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W)
Pre-scan	07	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W)
Pre-scan	08	Charge mode_Keep the EUT charging(Output1: 5W+Output3: 2.5W)
Pre-scan	09	Charge mode_Keep the EUT charging(Output1: 7.5W+Output3: 2.5W)
Pre-scan	10	Charge mode_Keep the EUT charging(Output1: 10W+Output3: 2.5W)
Pre-scan	11	Charge mode_Keep the EUT charging(Output2: 2.5W+Output3: 2.5W)
Pre-scan	12	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	13	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	14	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W+Output3: 2.5W)
Pre-scan	15	Charge mode_Keep the EUT charging(Output1: 5W)
Pre-scan	16	Charge mode_Keep the EUT charging(Output1: 7.5W)
Final test	17	Charge mode_Keep the EUT charging(Output1: 10W)
Final test	18	Charge mode_Keep the EUT charging(Output2: 2.5W)
Final test	19	Charge mode_Keep the EUT charging(Output3: 5W)
Pre-scan	20	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W)
Pre-scan	21	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W)
Pre-scan	22	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W)
Pre-scan	23	Charge mode_Keep the EUT charging(Output1: 5W+Output3: 5W)
Pre-scan	24	Charge mode_Keep the EUT charging(Output1: 7.5W+Output3: 5W)
Pre-scan	25	Charge mode_Keep the EUT charging(Output1: 10W+Output3: 5W)

Pre-scan	26	Charge mode_Keep the EUT charging(Output2: 2.5W+Output3: 5W)
Pre-scan	27	Charge mode_Keep the EUT charging(Output1: 5W+Output2: 2.5W+Output3: 5W)
Pre-scan	28	Charge mode_Keep the EUT charging(Output1: 7.5W+Output2: 2.5W+Output3: 5W)
Pre-scan	29	Charge mode_Keep the EUT charging(Output1: 10W+Output2: 2.5W+Output3: 5W)

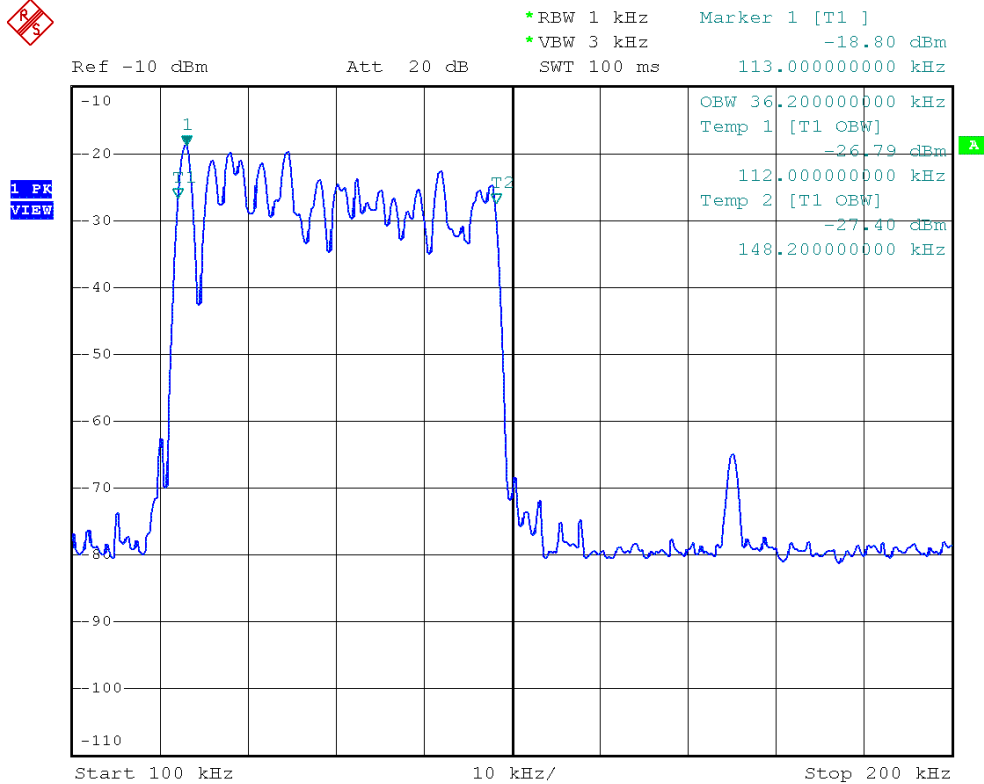
7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data



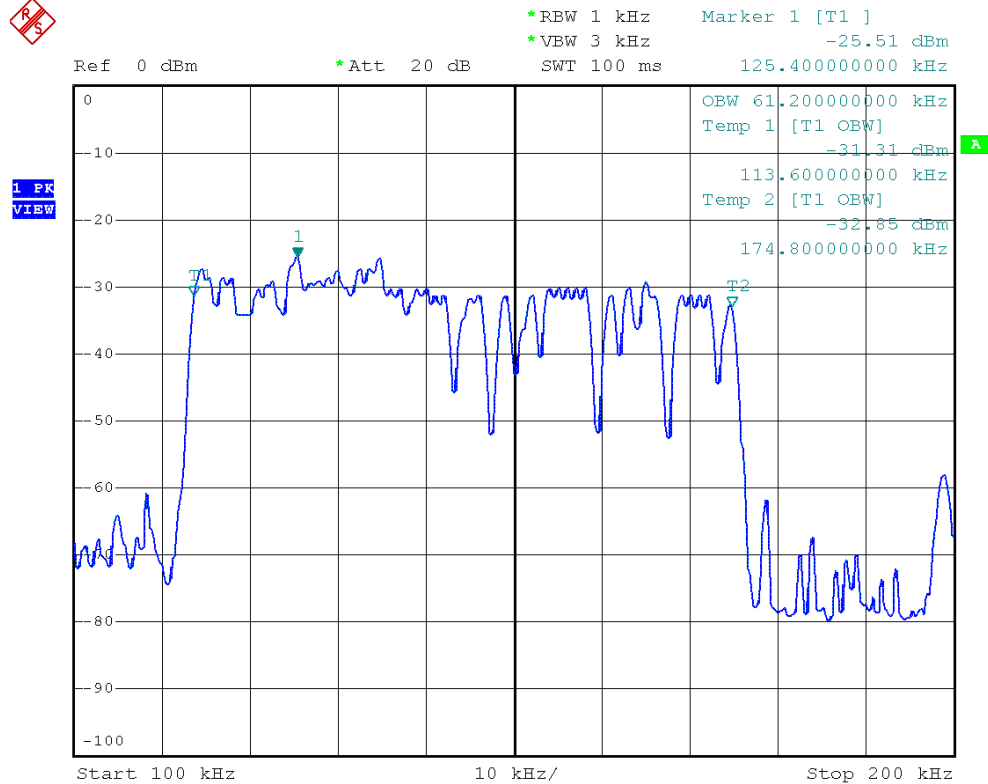
Mode 17



According the test data above, the fundamental wave is not fall in the restricted band 90KHz-110KHz and 0.495-0.505 MHz, the field strength also meets the 15.209 requirement, please refer to clause 7.3.



Mode 19



According the test data above, the fundamental wave is not fall in the restricted band 90KHz-110KHz and 0.495-0.505 MHz, the field strength also meets the 15.209 requirement, please refer to clause 7.3.

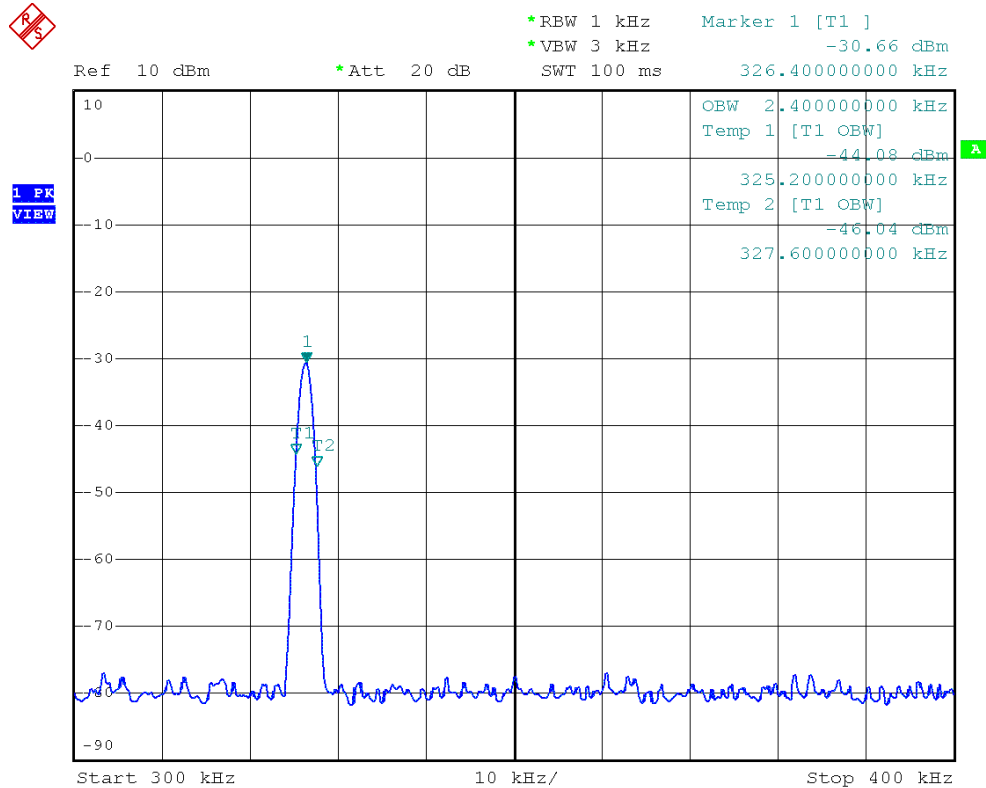


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Mode 18:



According the test data above, the fundamental wave is not fall in the restricted band 90KHz-110KHz and 0.495-0.505 MHz, the field strength also meets the 15.209 requirement, please refer to clause 7.3.

8 Test Setup Photo

Refer to test setup Photos for SZCR2105021138AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2105021138AT

- End of the Report -

