



TEST REPORT

Application No.: KSCR2204000429AT
FCC ID: 2AC2CDR2072S
Applicant: Ningbo Diya Electric Appliance, Co, LTD
Address of Applicant: #27 Yunhuan Road, Simen Town, Ningbo, Zhejiang Province
Manufacturer: Ningbo Diya Electric Appliance, Co, LTD
Address of Manufacturer: #27 Yunhuan Road, Simen Town, Ningbo, Zhejiang Province
Factory: Ningbo Diya Electric Appliance, Co, LTD
Address of Factory: #27 Yunhuan Road, Simen Town, Ningbo, Zhejiang Province
Equipment Under Test (EUT):
EUT Name: Wireless Charging Pod
Model No.: DR-2072S
Standard(s) : 47 CFR Part 18
Date of Receipt: 2022-04-01
Date of Test: 2022-05-16 to 2022-05-16
Date of Issue: 2022-05-16

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-05-16		Original

Authorized for issue by:				
		Damon Zhou		
		Damon Zhou/Project Engineer		
		Eric Lin		
		Eric Lin/Reviewer		



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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted disturbance	47 CFR Part 18	FCC OST/MP-5:1986	Part 18.307	Pass
Radiated emission	47 CFR Part 18	FCC OST/MP-5:1986	Part 18.305	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 125V/60Hz
Test Voltage:	AC 120V/60Hz
Wired Output:	(USB-A) DC 4.7-5.3V, 2.4A Max. (Type-C) DC 4.7-5.3V, 3.1A Max.
Wireless Output:	10W Max.
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation
Operation Frequency:	115KHz-148KHz

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission at mains port using AMN	2.4dB (9kHz to 150kHz)
		2.2dB (150kHz to 30MHz)
2	Conducted Emission at telecommunication port using AAN	4.0 dB (150kHz to 30MHz)
3	Radiated Power	3.2dB
4	Radiated Emission (10m)	4.1 dB
5	Radiated Emission (3m)	4.6 dB (30MHz-1GHz)
		5.0dB (1GHz-6GHz)
		5.2dB (6GHz-18GHz)
		5.3dB (18GHz-40GHz)

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

4.5 Test Facility

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

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)						
1	EMI Test Receive	R&S	ESCI	100781	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Faratronic	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/15/2022	04/14/2023
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
5	Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023
6	Vector Signal Generator	R&S	SMW200A	110074	10/12/2021	10/11/2022
7	Radio Communication Test Station	Anritsu	MT8000A	6262012849	09/23/2021	09/22/2022
8	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	09/23/2021	09/22/2022
9	Universal Radio Communication Tester	R&S	CMW500	159275	10/12/2021	10/11/2022
10	Universal Radio Communication Tester	R&S	CMW500	167239	04/15/2022	04/14/2023
11	Power Meter	Anritsu	ML2495A	1445010	04/15/2022	04/14/2023
12	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
13	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
14	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
15	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
16	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
17	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
18	Conducted Test Cable	/	RF01-RF04	/	04/15/2022	04/14/2023
19	Software	BST	TST-PASS	N/A	N/A	N/A
20	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2022	04/14/2023
21	Thermometer	Anymetre	TH603	CCS007	10/14/2021	10/13/2022
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Com-Power	AL-130R	10160008	04/13/2021	04/12/2023
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/20/2022	02/19/2023
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2022	04/14/2023
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R



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14	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
15	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
16	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz~1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz~1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz~1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	/	RE01-RE04	/	04/15/2022	04/14/2023
24	Software	Faratronic	EZ EMC	N/A	N/A	N/A



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6 Radio Spectrum Matter Test Results

6.1 Conducted disturbance

Test Requirement Part 18.307

Test Method: FCC MP-5

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.

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

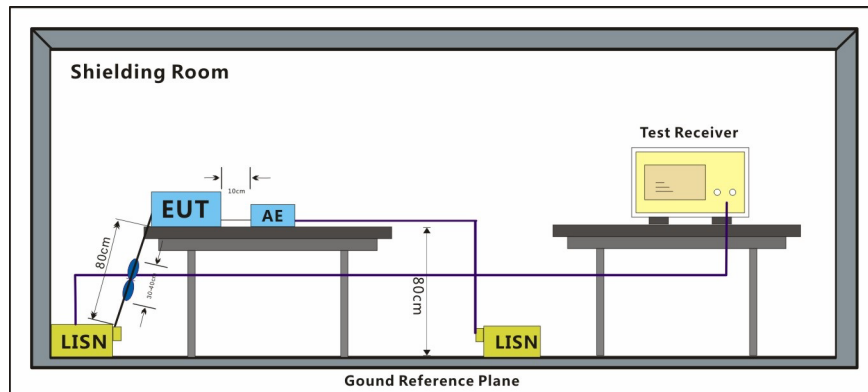
Prescan Mode 00: Wireless Output (The load shall be set at full load (10W)).

01: Wireless Output (The load shall be set at half load (5W)).

02: Wireless Output (The load shall be set at empty load (0W)).

Final Test mode 00: Wireless Output (The load shall be set at full load (10W)).

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

$$1. \text{Result (dBUV)} = \text{Reading (dBUV)} + \text{Correction Factor (dB)}$$
$$2. \text{Correction Factor (dB)} = \text{LISN Factor (dB)} + \text{Cable Loss (dB)}$$


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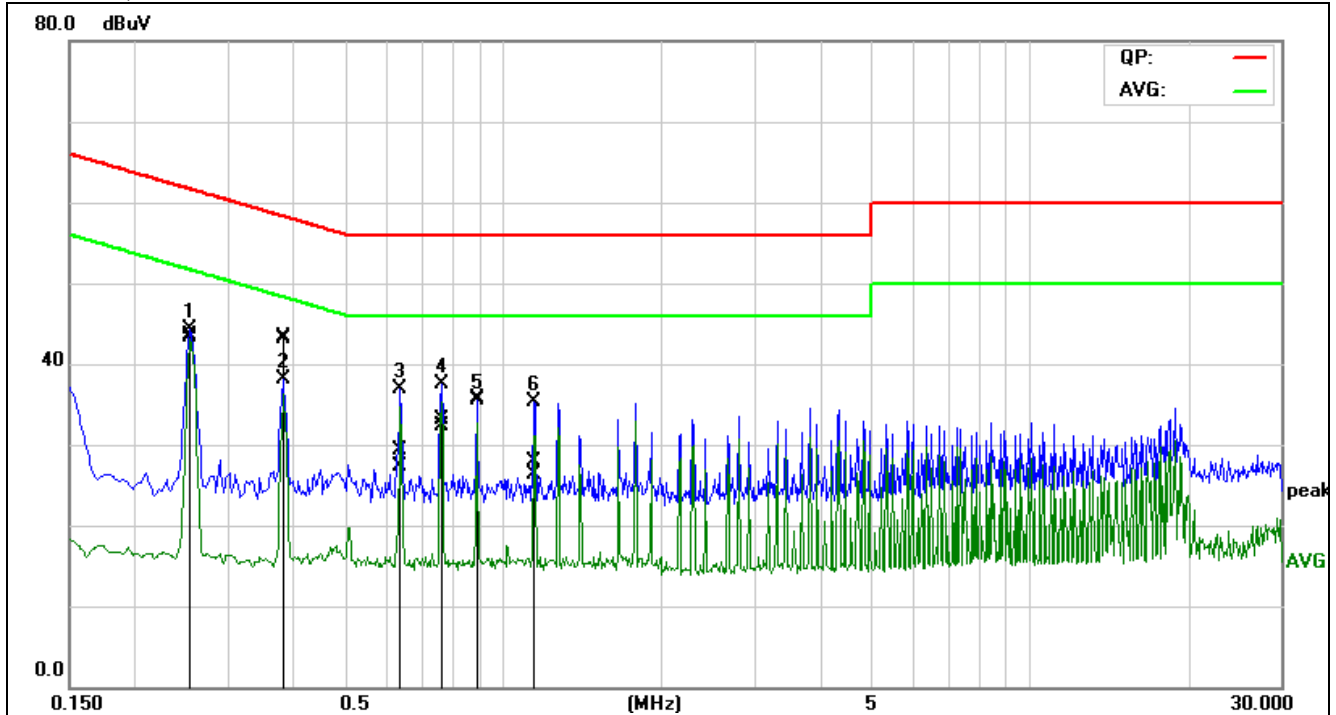
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Mode:00; Line:Live Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.2551	23.97	23.86	19.51	43.48	43.37	61.59	51.59	-18.11	-8.22	Pass
2*	0.3822	23.69	23.51	19.53	43.22	43.04	58.23	48.23	-15.01	-5.19	Pass
3	0.6383	9.73	7.74	19.57	29.30	27.31	56.00	46.00	-26.70	-18.69	Pass
4	0.7651	13.60	12.64	19.58	33.18	32.22	56.00	46.00	-22.82	-13.78	Pass
5	0.8921	16.09	15.97	19.59	35.68	35.56	56.00	46.00	-20.32	-10.44	Pass
6	1.1496	8.29	6.67	19.61	27.90	26.28	56.00	46.00	-28.10	-19.72	Pass



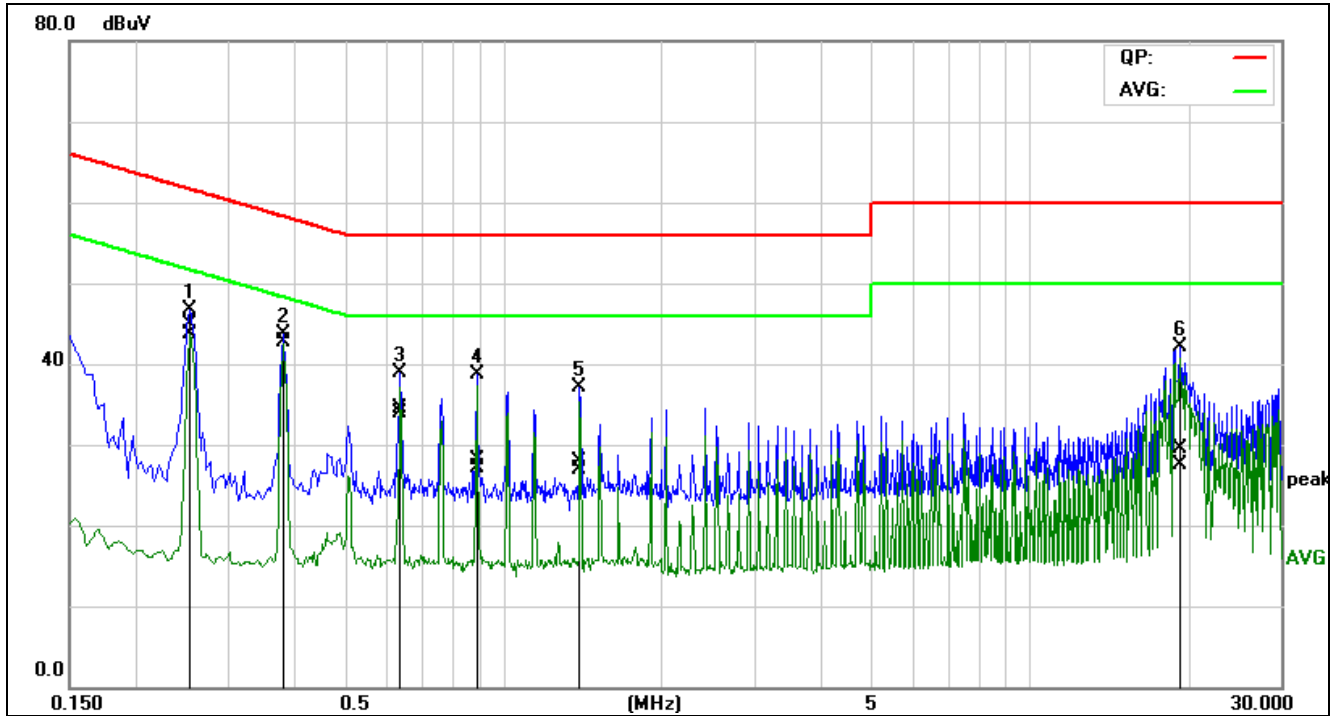
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Mode:00; Line:Neutral Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.2547	25.33	24.29	19.50	44.83	43.79	61.60	51.60	-16.77	-7.81	Pass
2*	0.3825	23.11	23.21	19.52	42.63	42.73	58.22	48.22	-15.59	-5.49	Pass
3	0.6385	14.89	14.34	19.56	34.45	33.90	56.00	46.00	-21.55	-12.10	Pass
4	0.8908	8.49	7.54	19.59	28.08	27.13	56.00	46.00	-27.92	-18.87	Pass
5	1.4007	8.24	7.24	19.62	27.86	26.86	56.00	46.00	-28.14	-19.14	Pass
6	19.2569	9.13	7.12	20.33	29.46	27.45	60.00	50.00	-30.54	-22.55	Pass



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6.2 Radiated emission

Test Requirement Part 18.305

Test Method: FCC MP-5

Limit:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any non-ISM frequency	Below 500 500 or more	15 $15 \times \text{SQRT}(\text{power}/500)$	300 1300

¹Field strength may not exceed 10 $\mu\text{V/m}$ at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz	30 MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz	400 MHz.
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower	Tenth harmonic or 1,000 MHz, whichever is higher.
500 to 1,000	Lowest frequency generated in the device or 100 MHz, whichever is lower	Tenth harmonic.
Above 1,000	do	Tenth harmonic or highest detectable emission.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Prescan Mode 00: Wireless Output (The load shall be set at full load (10W).

01: Wireless Output (The load shall be set at half load (5W).

02: Wireless Output (The load shall be set at empty load (0W).

Final Test mode 00: Wireless Output (The load shall be set at full load (10W).



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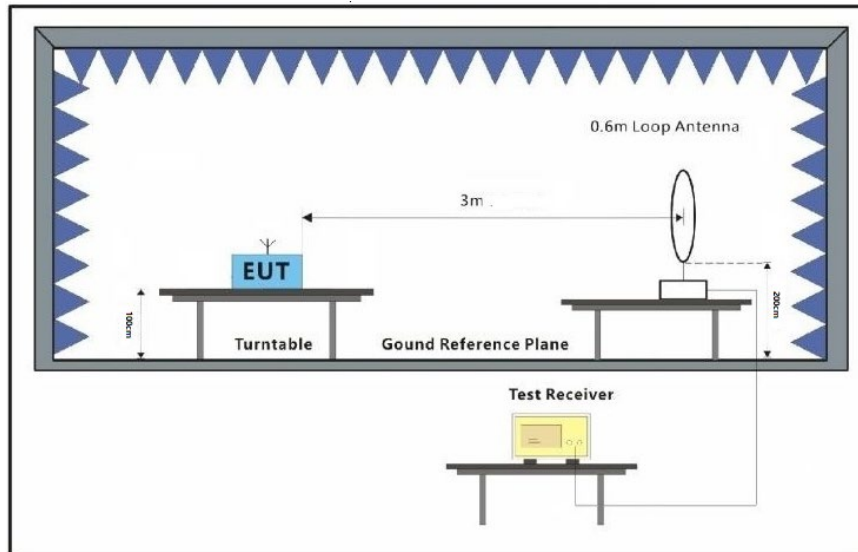
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6.2.2 Test Setup Diagram



6.2.3 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



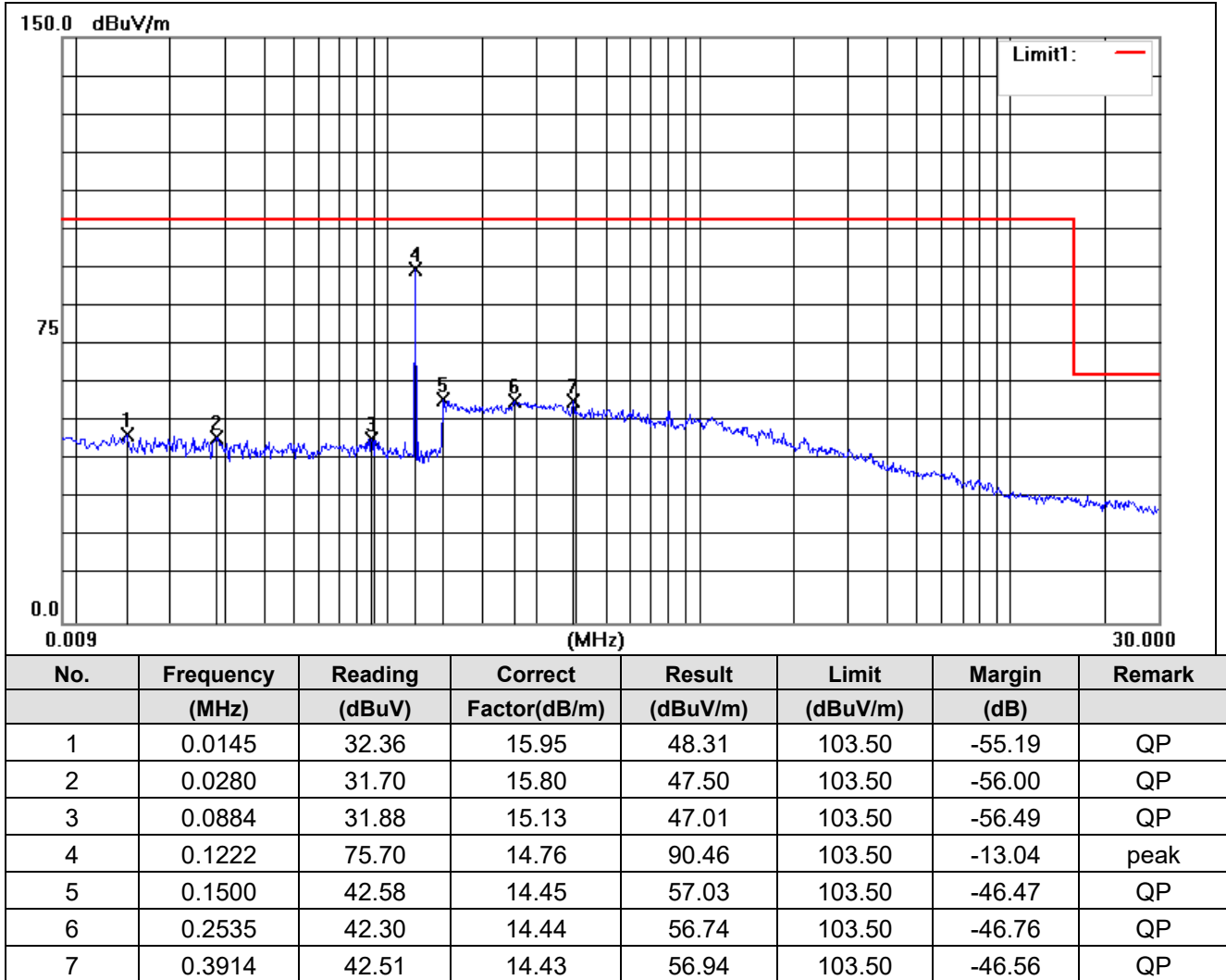
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Below 30MHz

Mode 00: Polarization: Horizontal



Remark Result Level= Reading Level+ Correct Factor

Correct Factor= Cable Loss+ Antenna Factor- Preamp Factor



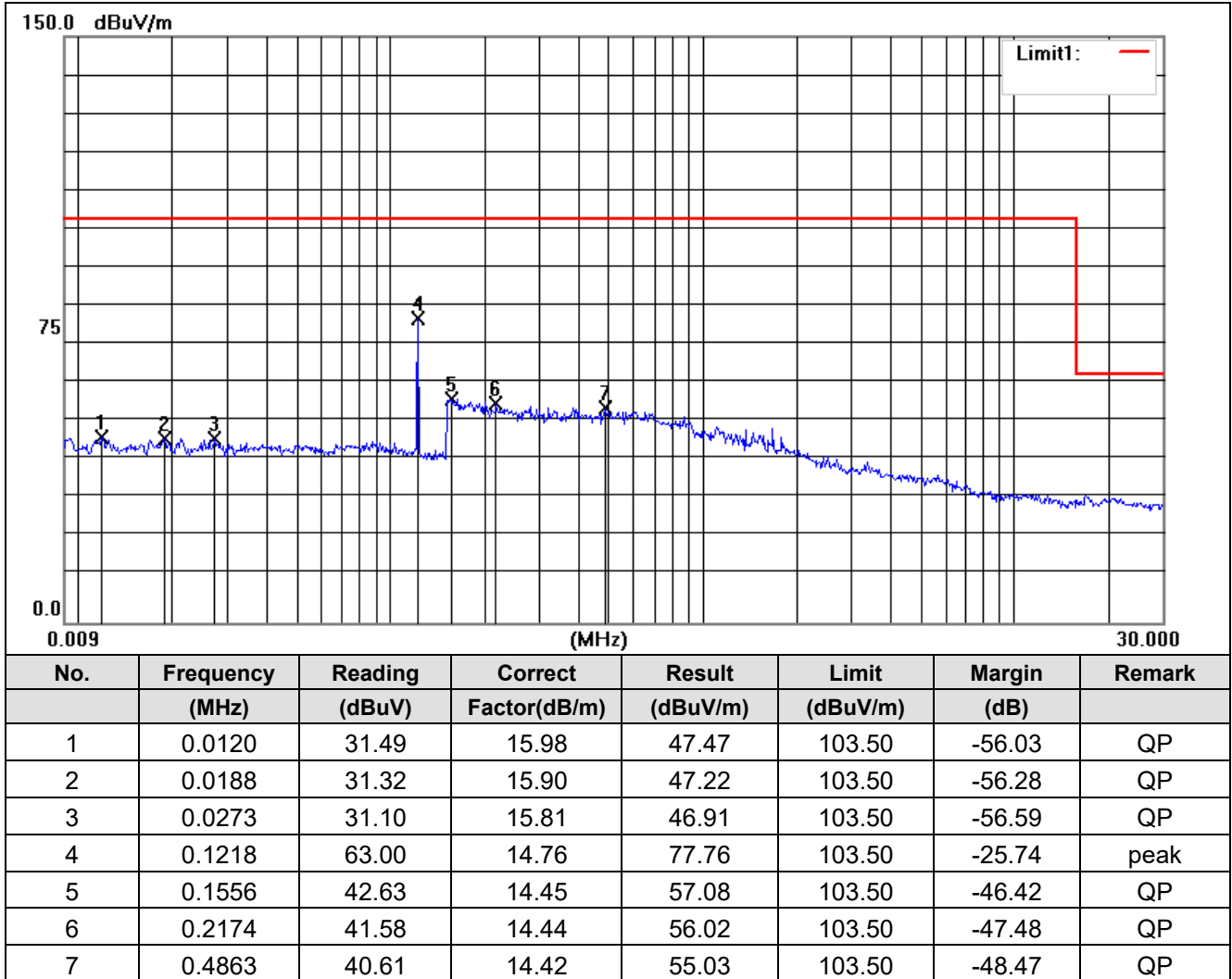
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Mode 00:Polarization: Vertical



Remark Result Level= Reading Level+ Correct Factor

Correct Factor= Cable Loss+ Antenna Factor- Preamp Factor



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2204000429AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2204000429AT

- End of the Report -



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