



TEST REPORT

Application No.: SZEM1812010349CR
Applicant: Shenzhen Horn Audio Co., Ltd
Address of Applicant: No.6, 4th Guihua Road, Pingshan District, Shenzhen, 518118 China
Manufacturer: Shenzhen Horn Audio Co., Ltd
Address of Manufacturer: No.6, 4th Guihua Road, Pingshan District, Shenzhen, Guangdong, P.R.China
Factory: Shenzhen Horn Audio Co., Ltd
Address of Factory: No.6, 4th Guihua Road, Pingshan District, Shenzhen, Guangdong, P.R.China
Equipment Under Test (EUT):
EUT Name: Wireless Charger
Model No.: WIC-001
Trade mark: Horn
FCC ID: ZXC-WIC-001
Standard(s) : 47 CFR Part 18
Date of Receipt: 2018-12-03
Date of Test: 2018-12-06 to 2018-12-13
Date of Issue: 2018-12-20

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

Keny Xu

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		2018-12-20		Original

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



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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	47 CFR Part 18.307	Pass
Radiated Emissions (9kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	47 CFR Part 18.305	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V from USB port Input: DC 5V/2A, DC 9V/1.67A Output: WPC: 5W(DC 5V/1A), 7.5W(DC 5V1.5A), 10W(DC 9V/1.1A)
Cable:	USB cable: 100cm shielded
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation
Operation Frequency:	108.65kHz to 148.24kHz
Remark:	1) Tests were conducted in all three load modes and the worst case (DC 9V/1.1A) is reported only. 2) This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	SAMSUNG	EP-TA200	R37J8YA7W71DK3
iPhone 8	Apple	A1863	F4GVQ656JC6D
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 2.84\text{dB}$
6	Conducted Spurious emissions	$\pm 0.75\text{dB}$
7	RF Radiated power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Supply voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$

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:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 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. 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**

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. 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 disturbance					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018-09-25	2019-09-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2018-04-02	2019-04-01
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018-04-02	2019-04-01

Radiated emission					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018-07-12	2019-07-11
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018-04-02	2019-04-01
Trilog-Broadband Antenna (30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2018-04-13	2019-04-12
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07



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6 Radio Spectrum Matter Test Results

6.1 Conducted disturbance

Test Requirement 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
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

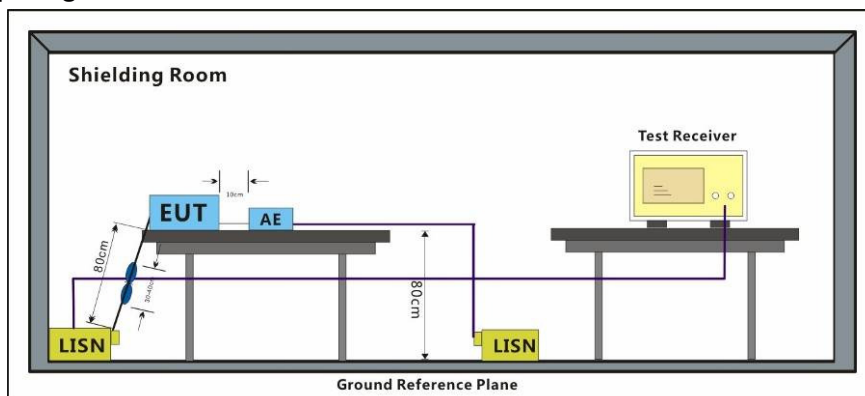
*Decreases with the logarithm of the frequency.

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C Humidity: 51.3 % RH Atmospheric Pressure: 1020 mbar
Test mode a:Charge mode_Keep the EUT charging

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

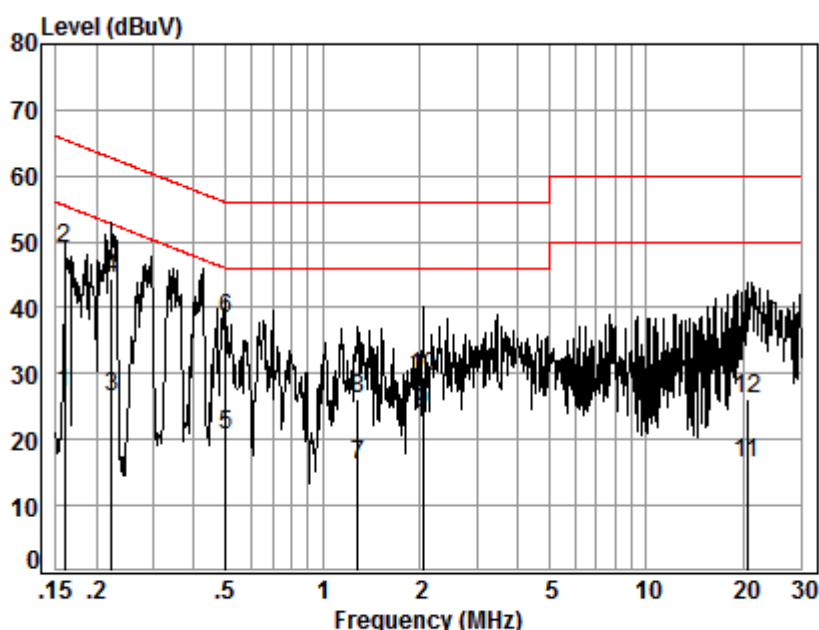


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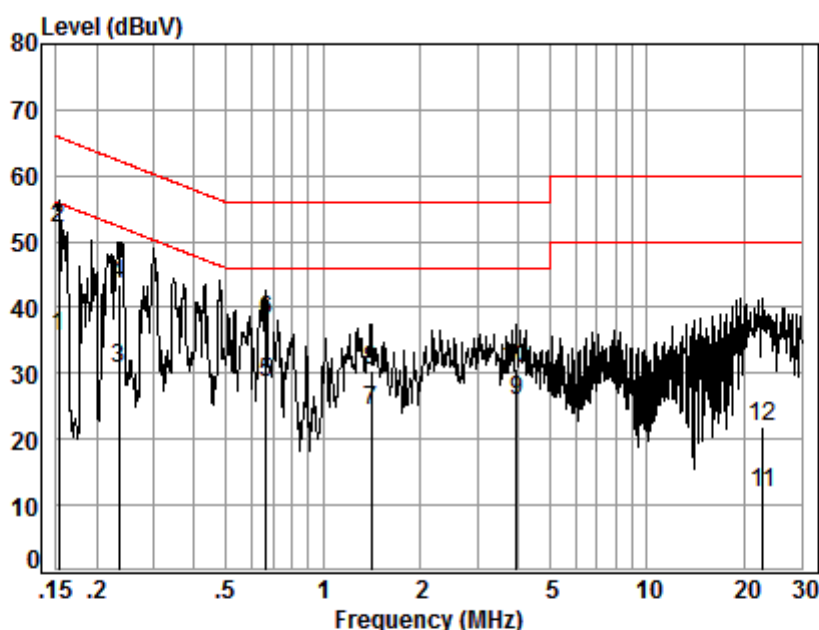
Mode:a; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 10349CR
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	17.42	27.09	55.47	-28.38	Average
2	0.16	0.01	9.66	39.32	48.99	65.47	-16.48	QP
3	0.22	0.03	9.66	16.75	26.44	52.70	-26.26	Average
4	0.22	0.03	9.66	34.72	44.41	62.70	-18.29	QP
5	0.50	0.06	9.67	10.93	20.66	46.00	-25.34	Average
6	0.50	0.06	9.67	28.50	38.23	56.00	-17.77	QP
7	1.28	0.11	9.73	6.29	16.13	46.00	-29.87	Average
8	1.28	0.11	9.73	16.42	26.26	56.00	-29.74	QP
9	2.04	0.16	9.72	14.28	24.16	46.00	-21.84	Average
10	2.04	0.16	9.72	19.52	29.40	56.00	-26.60	QP
11	20.49	0.24	10.08	6.16	16.48	50.00	-33.52	Average
12	20.49	0.24	10.08	15.79	26.11	60.00	-33.89	QP

Mode:a; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 10349CR
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.63	25.85	35.49	55.87	-20.38	Average
2	0.15	0.01	9.63	42.51	52.15	65.87	-13.72	QP
3	0.23	0.03	9.64	20.91	30.58	52.30	-21.72	Average
4	0.23	0.03	9.64	33.85	43.52	62.30	-18.78	QP
5	0.66	0.07	9.65	18.73	28.45	46.00	-17.55	Average
6	0.66	0.07	9.65	28.27	37.99	56.00	-18.01	QP
7	1.41	0.12	9.70	14.49	24.31	46.00	-21.69	Average
8	1.41	0.12	9.70	20.68	30.50	56.00	-25.50	QP
9	3.94	0.16	9.69	16.15	26.00	46.00	-20.00	Average
10	3.94	0.16	9.69	20.78	30.63	56.00	-25.37	QP
11	22.78	0.25	10.21	1.47	11.93	50.00	-38.07	Average
12	22.78	0.25	10.21	11.29	21.75	60.00	-38.25	QP

6.2 Radiated emission

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Test Distance: 3m
Frequency Range: 9kHz-30MHz
Limit:

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 $25 \times \text{SQRT}(\text{power}/500)$	300 ¹ 300
	Any non-ISM frequency	Below 500 500 or more	15 $15 \times \text{SQRT}(\text{power}/500)$	300 ¹ 300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (²)	1,600 (²)
Medical diathermy	Any ISM frequency	Any	25	300
	Any non-ISM frequency	Any	15	300
Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) $2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	300 ³ 300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	24,000/F(kHz) 15	30 30
Induction cooking ranges	Below 90 kHz	Any	1,500	⁴ 30
	On or above 90 kHz	Any	300	⁴ 30

¹Field strength may not exceed 10 µV/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.

²Reduced to the greatest extent possible.

³Field strength may not exceed 10 µV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.

⁴Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

Remark:

1 This product belongs to non-ISM equipment, the field strength limit is 15uV/m at 300 meter distance.

2 Limit: $20\log(15\text{uV/m}) + 20\log(300/3) = 23.52 + 40 = 63.52\text{dBuV/m}$ at 3 meters distance



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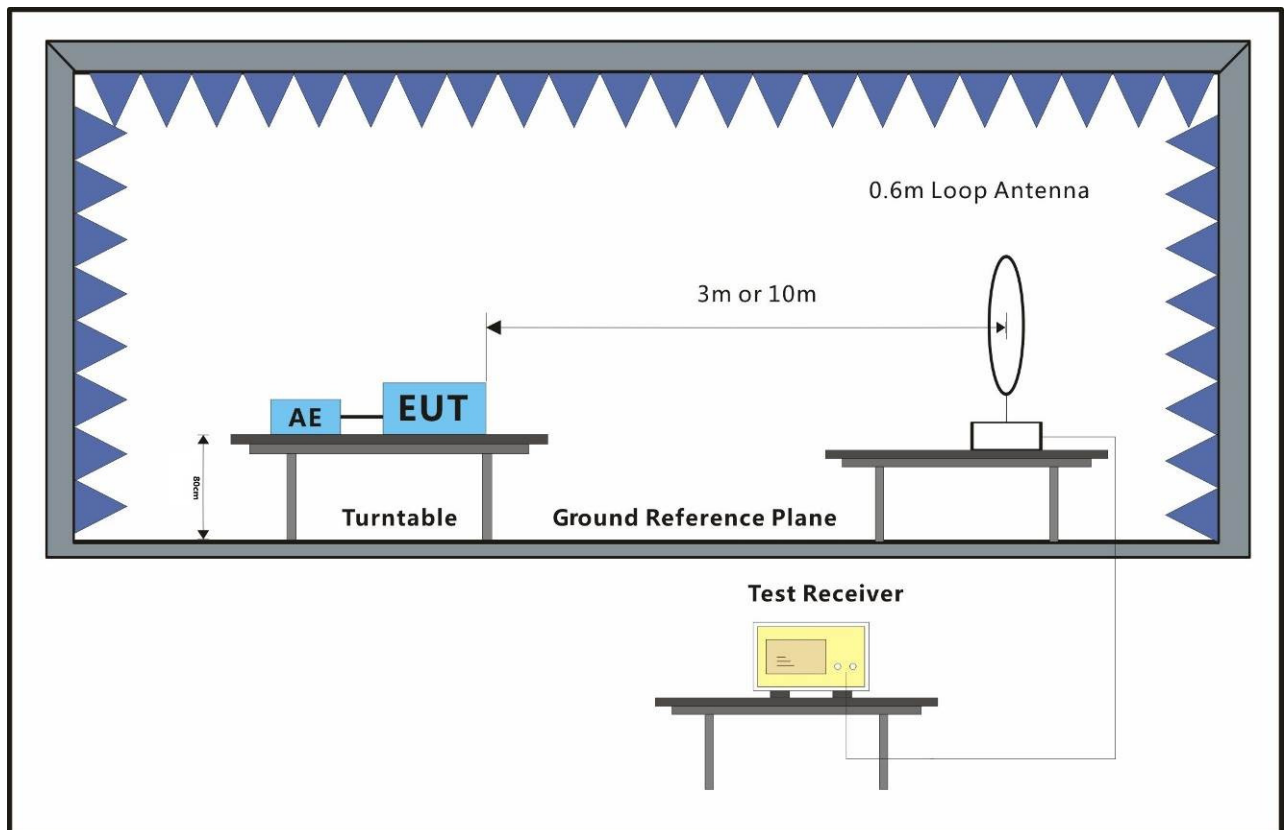
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

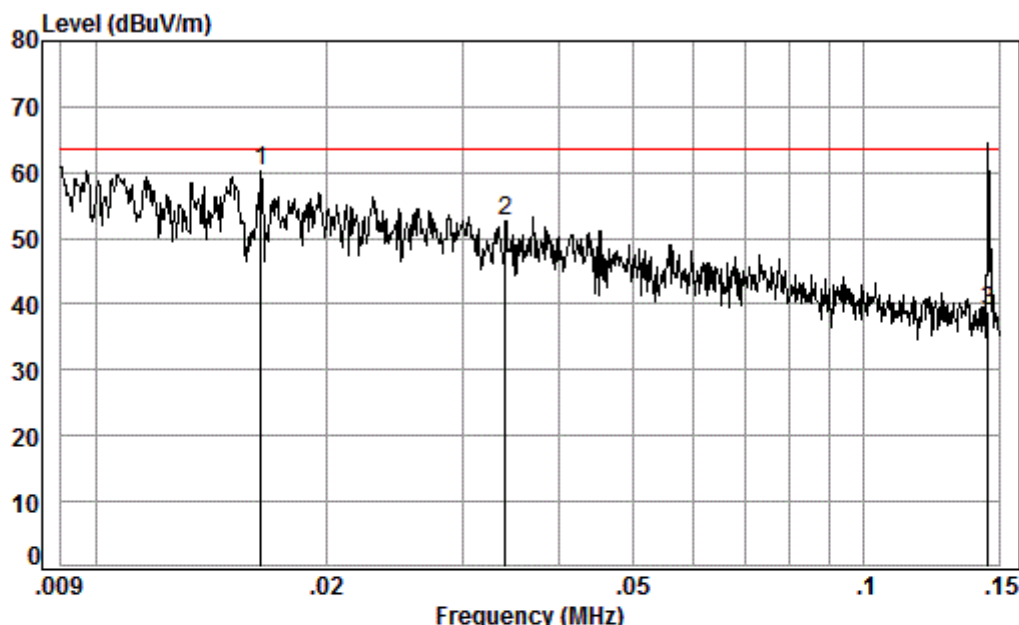
Test mode a: Charge mode_Keep the EUT charging

6.2.2 Test Setup Diagram



6.2.3 Measurement Procedure and Data

a 0.009-0.15MHz



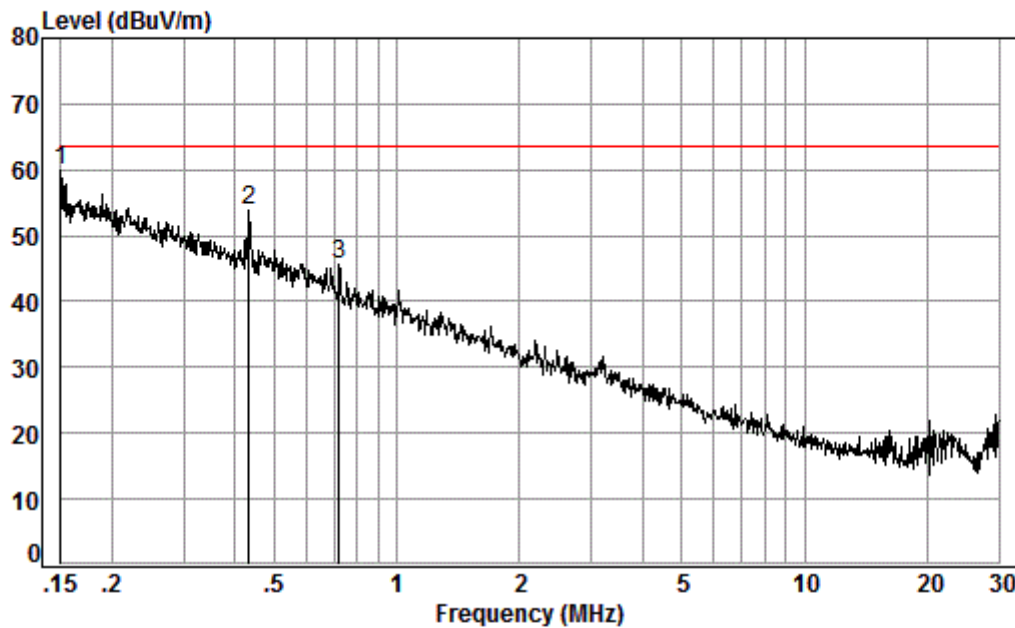
Condition: 3m

Job No. : 10349CR

Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	0.02	0.24	16.24	31.67	75.39	60.20	63.52	-3.32	Peak
2	0.03	0.16	13.48	32.08	71.14	52.70	63.52	-10.82	Peak
3 av	0.15	0.06	11.72	32.67	59.81	38.92	63.52	-24.60	Average

a 0.15-30MHz



Condition: 3m
Job No. : 10349CR
Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	0.15	0.07	11.70	32.67	80.90	60.00	63.52	-3.52	Peak
2	0.44	0.10	11.76	32.66	74.77	53.97	63.52	-9.55	Peak
3	0.72	0.17	11.97	32.65	66.20	45.69	63.52	-17.83	Peak





7 Photographs

7.1 Test Setup

Please refer to setup photos.

7.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos.

- End of the Report -



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