



FCC VERIFICATION TEST REPORT

REPORT NO.: LUZ-16AU0034VNTY

MODEL NO.: LHT-V16S/LHT-V16S-W1

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All the modifications applied in this document are identified by a vertical line on the left at the place where information has been modified regarding to the previous edition of the document.



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2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Remarks
FCC Part 15, Subpart B, Class B	Conducted Test	PASS	Meets Class B Limit
	Radiated Test	PASS	Meets Class B Limit

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2 Ed 1.0.

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

This lab's measurement uncertainty U_{Lab} , is low than U_{Cispr} , Table 1 – Values of U_{Cispr} of CISPR 16-4-2 Ed. 1.0, therefore compliance is deemed to occur if no measured disturbance exceeds the disturbance limit.

Measurement		Value
Conducted emissions		2.55 dB
Radiated emissions	30 MHz ~ 1GHz	3.22 dB
	Above 1GHz	2.89 dB



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LeEco Soundbar/LeEco Subwoofer
MODEL NO.	LHT-V16S/LHT-V16S-W1
POWER SUPPLY	100-240Vac, 50Hz/60Hz, 20W for LHT-V16S、 100-240Vac, 50/60Hz, 30W for LHT-V16S-W1

Notes: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2. The product covered in this report was Sound System, the system consists of soundbar (LHT-V16S) and wireless subwoofer (LHT-V16S-W1).

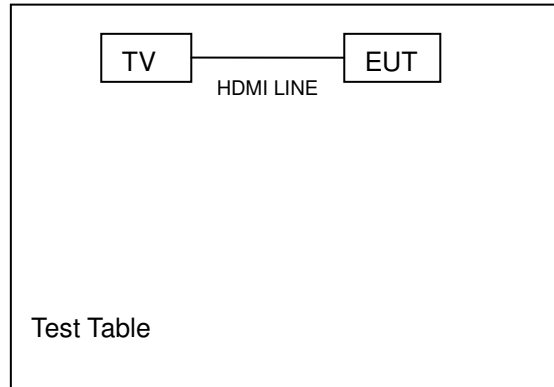
3.2 DESCRIPTION OF TEST MODES

Test Mode	Description
1	HDMI ARC connection mode(the worst test mode)
2	AUX IN connection mode
3	USB connection mode
4	S/PDIF IN connection mode
5	BT connection mode

Special comments: The product have five work modes, respectively for bluetooth connection mode, HDMI ARC connection mode, AUX IN connection mode, USB connection mode, S/PDIF IN connection mode, After test, we list the worst test results in this report.

3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without other necessary accessories or support units.



NO.	Manufacturer	Model Names	Model NO.
1	SONY	LCD colour TV	KLV-20S400A



4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD:

CFR 47 FCC Part 15, Subpart B (Section: 15.107)

FREQUENCY (MHz)	Class B (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66-56	56-46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

- NOTES:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1002	Apr.07, 2017
LISN ROHDE & SCHWARZ	ENV216	E1L1011	Aug.24, 2017
Software ADT	ADT_Cond_V7.3.1	N/A	N/A

4.1.3 TEST PROCEDURE

a. Refer ANSI C63.4 Clause 7.2

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP

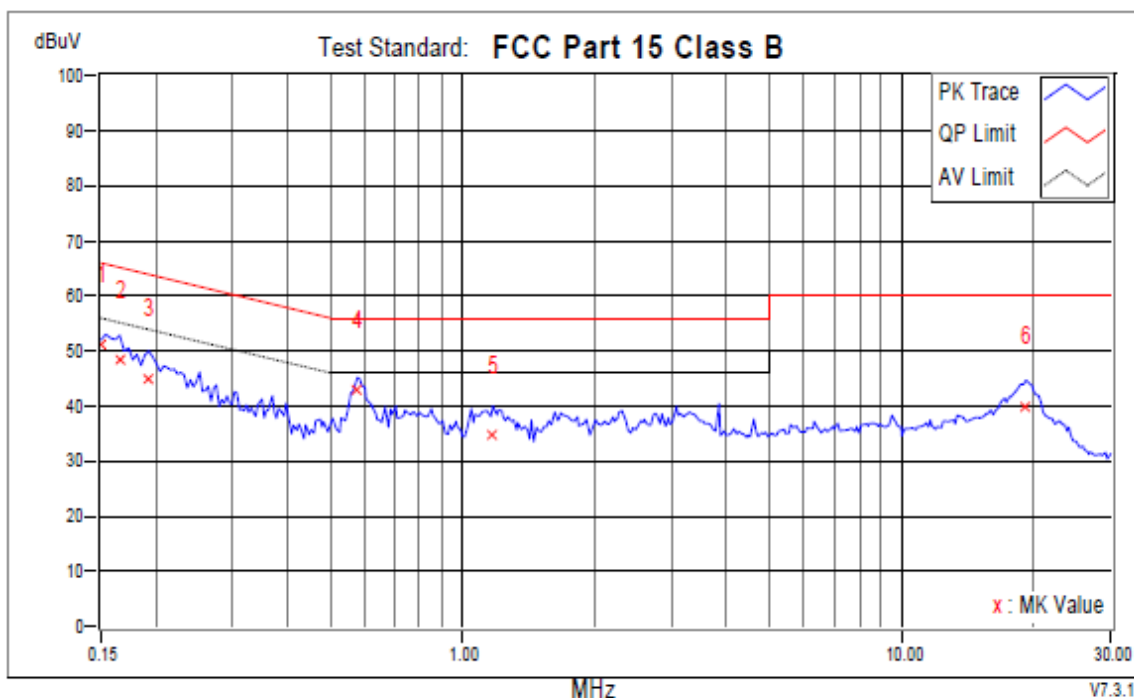
Refer ANSI C63.4 Figure 10a,

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



4.1.6 TEST RESULTS

TEST MODE	Mode 1 for soundbar	6dB BANDWIDTH	9 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	23deg. C, 53 %RH, 101kPa	TESTED BY	Chaojun Shi

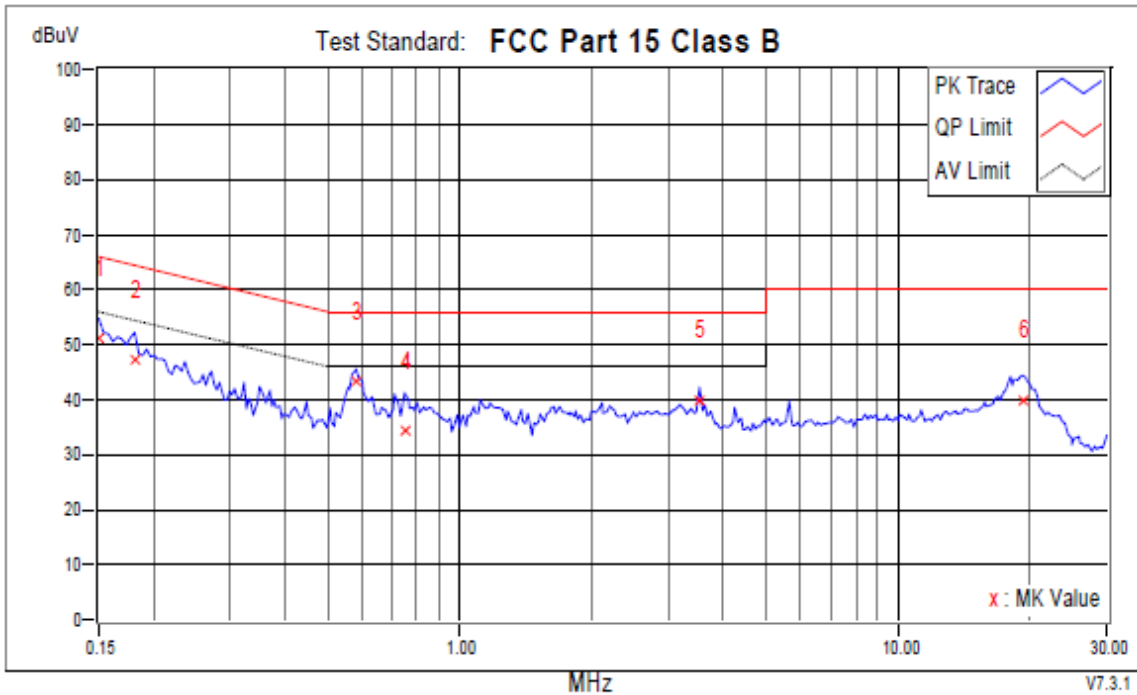


No.	Frequency	Corr. Factor	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
	MHz		QP	AV	QP	AV	QP	AV	QP	AV	
1	0.15000	9.78	41.26	25.16	51.04	34.94	66.00	56.00	-14.96	-21.06	
2	0.16564	9.77	38.60	20.91	48.37	30.68	65.18	55.18	-16.81	-24.50	
3	0.19301	9.75	35.18	21.39	44.93	31.14	63.91	53.91	-18.97	-22.76	
+4	0.57619	9.71	33.12	26.38	42.83	36.09	56.00	46.00	-13.17	-9.91	
5	1.17204	9.63	25.14	17.27	34.77	26.90	56.00	46.00	-21.23	-19.10	
6	19.20805	10.44	29.48	22.63	39.92	33.07	60.00	50.00	-20.08	-16.93	

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



TEST MODE	Mode 1 for soundbar	6dB BANDWIDTH	9 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23deg. C, 53 %RH, 101kPa	TESTED BY	Chaojun Shi

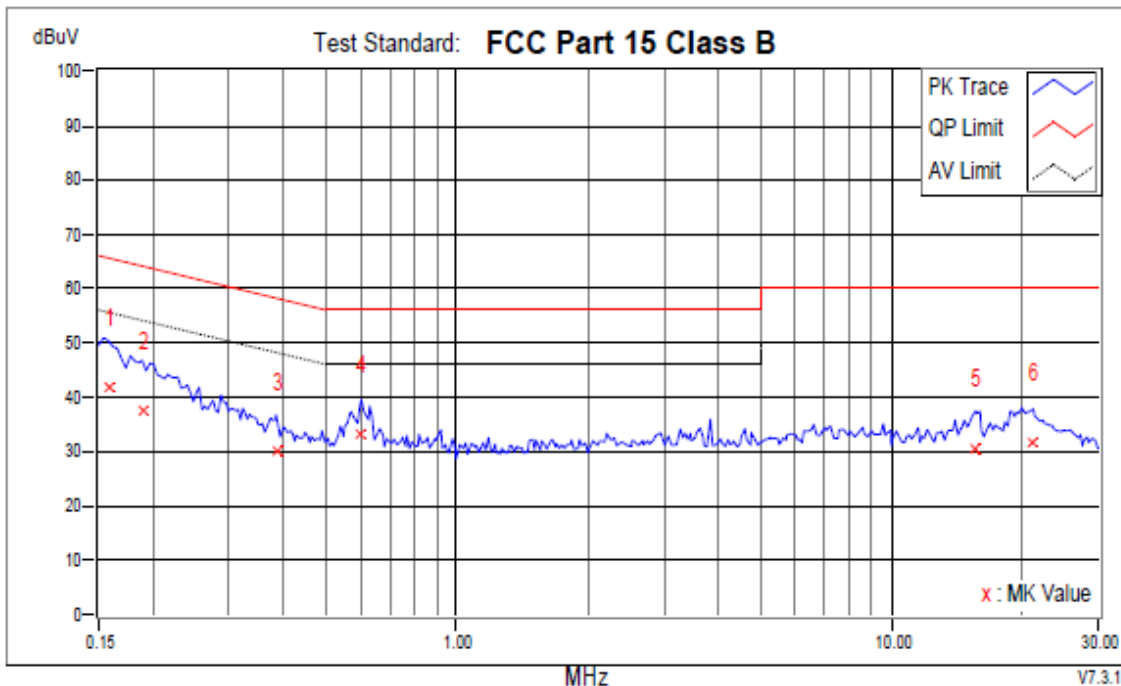


No.	Frequency MHz	Corr. Factor dB	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
			QP	AV	QP	AV	QP	AV	QP	AV	
1	0.15000	9.76	41.26	25.43	51.02	35.19	66.00	56.00	-14.98	-20.81	
2	0.18128	9.70	37.44	22.53	47.14	32.23	64.43	54.43	-17.28	-22.19	
+3	0.58010	9.70	33.70	26.91	43.40	36.61	56.00	46.00	-12.60	-9.39	
4	0.74823	9.63	24.84	18.28	34.47	27.91	56.00	46.00	-21.53	-18.09	
5	3.52586	9.90	29.86	25.36	39.76	35.26	56.00	46.00	-16.24	-10.74	
6	19.22760	10.19	29.54	23.09	39.73	33.28	60.00	50.00	-20.27	-16.72	

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



TEST MODE	Mode 1 for subwoofer	6dB BANDWIDTH	9 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	23deg. C, 53 %RH, 101kPa	TESTED BY	Chaojun Shi

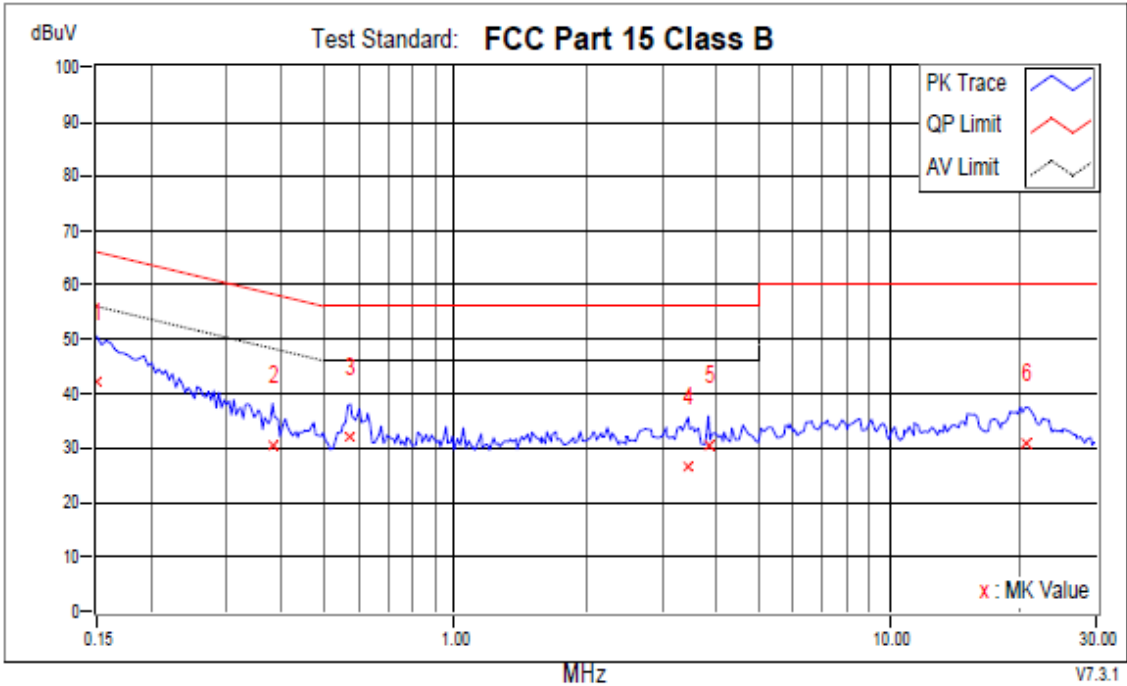


No.	Frequency MHz	Corr. Factor dB	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
			QP	AV	QP	AV	QP	AV	QP	AV	
1	0.15782	10.06	31.70	14.17	41.76	24.23	65.58	55.58	-23.82	-31.35	
2	0.18910	10.03	27.64	12.26	37.67	22.29	64.08	54.08	-26.41	-31.79	
3	0.38460	10.06	20.00	16.66	30.06	26.72	58.18	48.18	-28.12	-21.46	
+4	0.60356	10.10	22.96	18.37	33.06	28.47	56.00	46.00	-22.94	-17.53	
5	15.66559	10.41	19.96	14.20	30.37	24.61	60.00	50.00	-29.63	-25.39	
6	21.23734	10.32	21.22	15.06	31.54	25.38	60.00	50.00	-28.46	-24.62	

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



TEST MODE	Mode 1 for subwoofer	6dB BANDWIDTH	9 kHz
INPUT POWER	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23deg. C, 53 %RH, 101kPa	TESTED BY	Chaojun Shi



No.	Frequency MHz	Corr. Factor dB	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
			QP	AV	QP	AV	QP	AV	QP	AV	
1	0.15000	9.97	32.30	11.92	42.27	21.89	66.00	56.00	-23.73	-34.11	
2	0.38069	10.05	20.58	16.56	30.63	26.61	58.26	48.26	-27.64	-21.66	
3	0.57619	10.06	21.92	15.12	31.98	25.18	56.00	46.00	-24.02	-20.82	
4	3.45157	10.24	16.32	10.90	26.56	21.14	56.00	46.00	-29.44	-24.86	
+5	3.83866	10.27	20.30	15.43	30.57	25.70	56.00	46.00	-25.43	-20.30	
6	20.59610	10.46	20.42	14.06	30.88	24.52	60.00	50.00	-29.12	-25.48	

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD:

CFR 47 FCC Part 15, Subpart B (Section: 15.109)

FOR FREQUENCY BELOW 1000 MHz

FREQUENCY (MHz)	Class A (at 10m)		Class B (at 3m)	
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 – 88	90	39.1	100	40.0
88 – 216	150	43.5	150	43.5
216 – 960	210	46.4	200	46.0
960 – 1000	300	49.5	500	54.0

LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (MHz)	Class A ($\text{dB}\mu\text{V/m}$) (at 3m)		Class B ($\text{dB}\mu\text{V/m}$) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

- Note:** (1) The lower limit shall apply at the transition frequencies.
 (2) Emission level ($\text{dB}\mu\text{V/m}$) = $20 \log$ Emission level ($\mu\text{V/m}$).
 (2) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower.

As the highest frequency inside the EUT is 135MHz, so radiated emission were performed up to frequency 2000 MHz.



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Spectrum Analyzer Agilent	E4403B	E1S1001	Aug. 24, 2017
Receiver R&S	ESCS30	E1R1001	Apr. 09, 2017
Broadband Antenna Schwarzbeck	VULB 9168	E1A1001	Apr. 09, 2017
Preamplifier Agilent	8447D	E1A2001	Nov. 06, 2016
Software ADT	ADT_Radiated_V7.5	N/A	N/A

4.2.3 TEST PROCEDURE

Refer to ANSI C 63.4 Clause 8.3

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP

Refer to ANSI C 63.4 Figure 11a

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



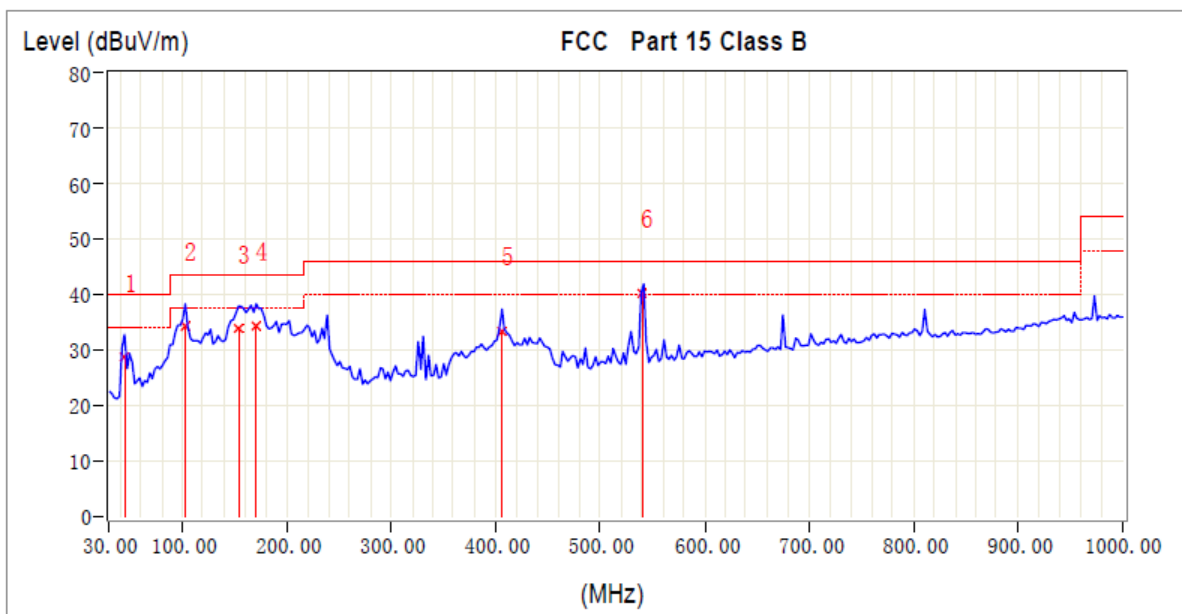
4.2.6 TEST RESULTS

INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ANTENNA POLARITY	Horizontal	TEST MODE	Mode 1
ENVIRONMENTAL CONDITIONS	25deg. C, 48 %RH, 101kPa	TESTED BY: Wenbin Qiao	

Temperature (C): 25.0

Humidity (%): 48

Polarity: Horizontal



No.	Frequency MHz	Factor dB	Reading dBuV/m	Emission dBuV/m	Limit dBuV/m	Margin dB	Tower / Table cm deg	
1	44.55	13.82	14.94	28.76	40.00	-11.24	200	131
2	102.75	10.88	23.40	34.28	43.50	-9.22	200	284
3	153.68	14.51	19.38	33.89	43.50	-9.61	200	235
4	170.65	14.47	19.82	34.29	43.50	-9.21	200	204
5	405.87	17.45	15.88	33.33	46.00	-12.67	100	343
* 6	539.98	20.87	19.34	40.21	46.00	-5.79	200	262

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

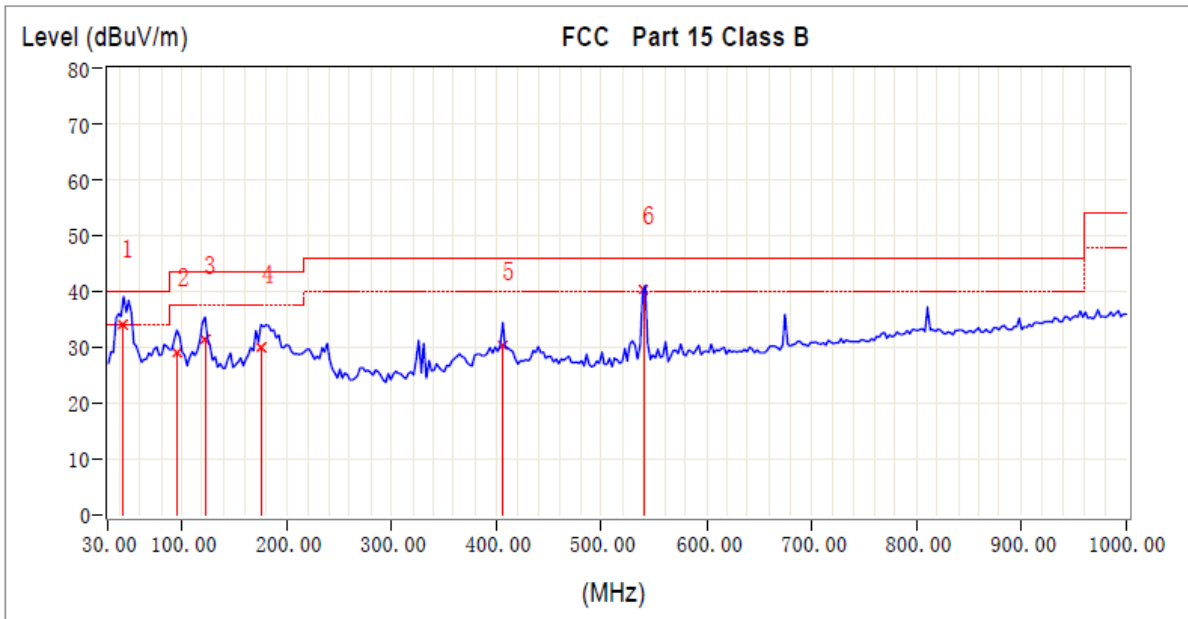


INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ANTENNA POLARITY	Vertical	TEST MODE	Mode 1
ENVIRONMENTAL CONDITIONS	25deg. C, 48 %RH, 101kPa	TESTED BY: Wenbin Qiao	

Temperature (C): 25.0

Humidity (%): 48

Polarity: Vertical

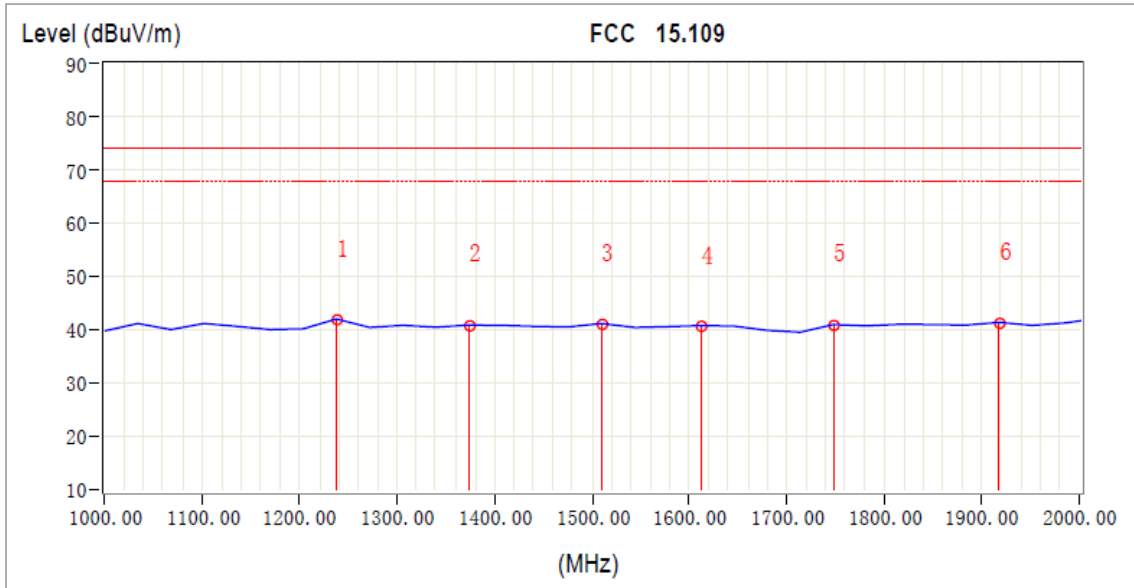


No.	Frequency MHz	Factor dB	Reading dBuV/m	Emission dBuV/m	Limit dBuV/m	Margin dB	Tower / Table cm deg	
1	43.52	13.88	20.18	34.06	40.00	-5.94	100	340
2	95.47	10.25	18.80	29.05	43.50	-14.45	100	106
3	122.15	12.38	19.04	31.42	43.50	-12.08	100	162
4	175.50	13.76	16.24	30.00	43.50	-13.50	100	135
5	405.87	17.45	12.94	30.39	46.00	-15.61	200	192
*	539.98	20.87	19.48	40.35	46.00	-5.65	100	213

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak
ANTENNA POLARITY	Horizontal	TEST MODE	Mode 1
ENVIRONMENTAL CONDITIONS	25deg. C, 48%RH, 101kPa	TESTED BY: Wenbin Qiao	

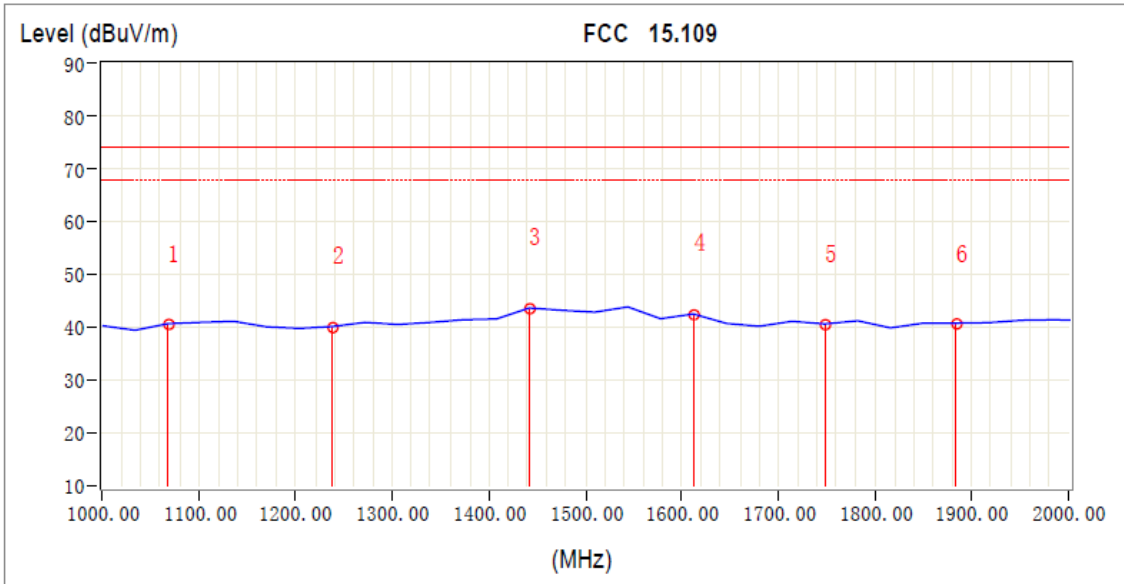


No.	Frequency MHz	Factor dB	Reading dBuV/m	Emission dBuV/m	Limit dBuV/m	Margin dB	Tower / Table cm deg		
*	1	1238.00	29.55	12.45	41.99	74.00	-32.01	99	0
	2	1374.00	30.11	10.74	40.85	74.00	-33.15	99	0
	3	1510.00	29.95	11.20	41.15	74.00	-32.85	100	345
	4	1612.00	29.94	10.81	40.75	74.00	-33.25	99	0
	5	1748.00	29.98	10.99	40.97	74.00	-33.03	99	0
	6	1918.00	30.67	10.65	41.32	74.00	-32.68	99	0

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak
ANTENNA POLARITY	Vertical	TEST MODE	Mode 1
ENVIRONMENTAL CONDITIONS	25deg. C, 48 %RH, 101kPa	TESTED BY: Wenbin Qiao	

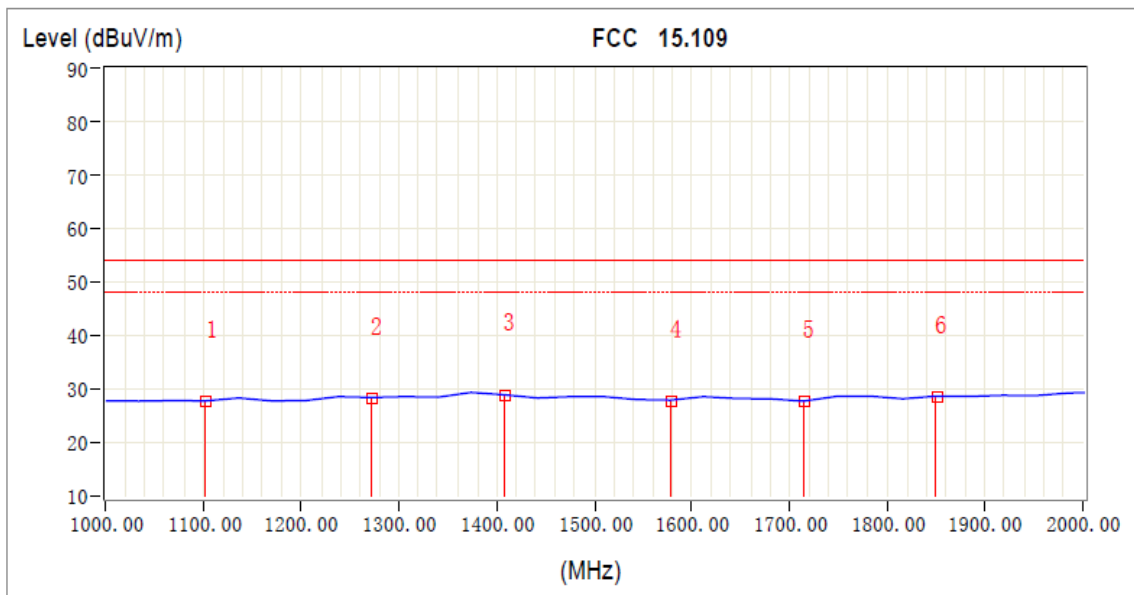


No.	Frequency MHz	Factor dB	Reading dBuV/m	Emission dBuV/m	Limit dBuV/m	Margin dB	Tower / Table cm deg	
1	1068.00	29.06	11.63	40.69	74.00	-33.31	99	0
2	1238.00	29.55	10.53	40.08	74.00	-33.92	99	0
*	1442.00	30.06	13.56	43.62	74.00	-30.38	100	4
4	1612.00	29.94	12.57	42.51	74.00	-31.49	99	0
5	1748.00	29.98	10.64	40.62	74.00	-33.38	99	0
6	1884.00	30.50	10.28	40.78	74.00	-33.22	99	0

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Average
ANTENNA POLARITY	Horizontal	TEST MODE	Mode 1
ENVIRONMENTAL CONDITIONS	25deg. C, 48 %RH, 101kPa	TESTED BY: Wenbin Qiao	

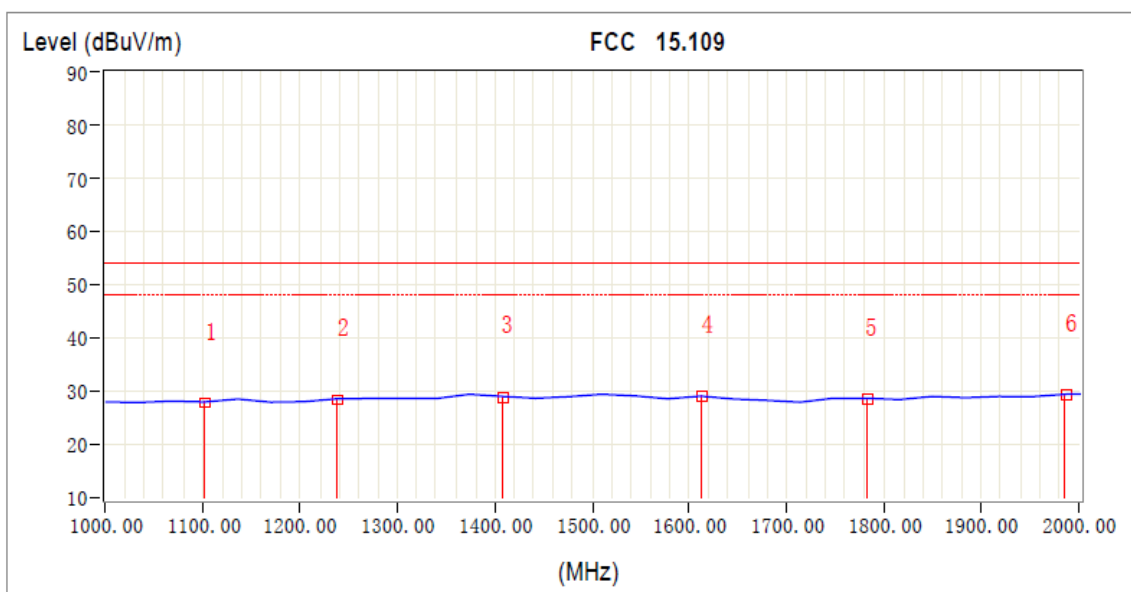


No.	Frequency MHz	Factor dB	Reading dBuV/m	Emission dBuV/m	Limit dBuV/m	Margin dB	Tower / Table cm deg	
1	1102.00	29.05	-1.31	27.73	54.00	-26.27	99	0
2	1272.00	29.79	-1.41	28.38	54.00	-25.62	99	0
*	1408.00	30.13	-1.22	28.91	54.00	-25.09	100	35
4	1578.00	29.95	-2.07	27.88	54.00	-26.12	99	0
5	1714.00	29.87	-2.14	27.73	54.00	-26.27	99	0
6	1850.00	30.36	-1.68	28.68	54.00	-25.32	99	0

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



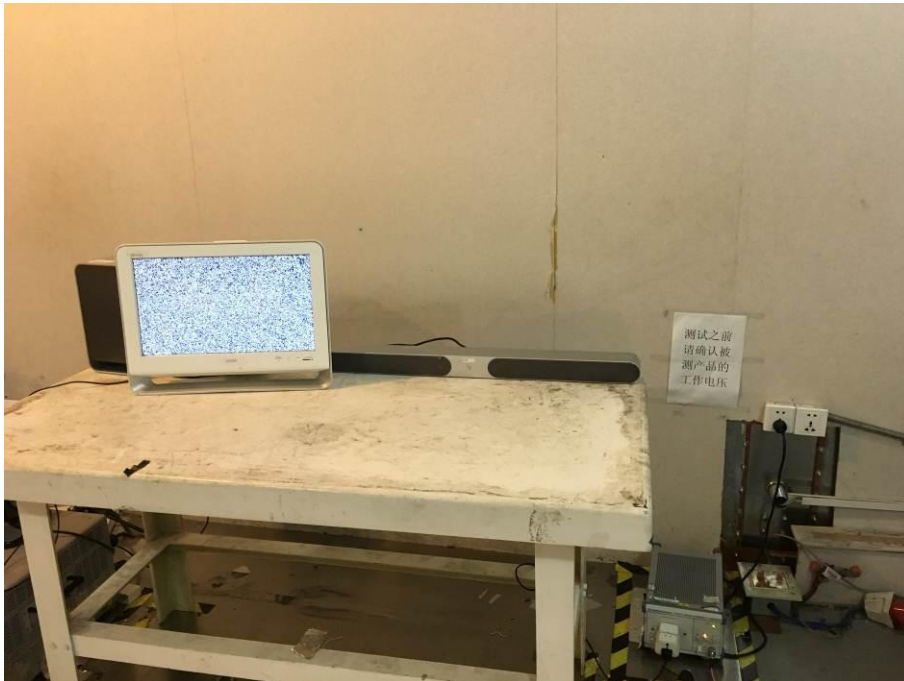
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Average
ANTENNA POLARITY	Vertical	TEST MODE	Mode 1
ENVIRONMENTAL CONDITIONS	25deg. C, 48 %RH, 101kPa	TESTED BY: Wenbin Qiao	



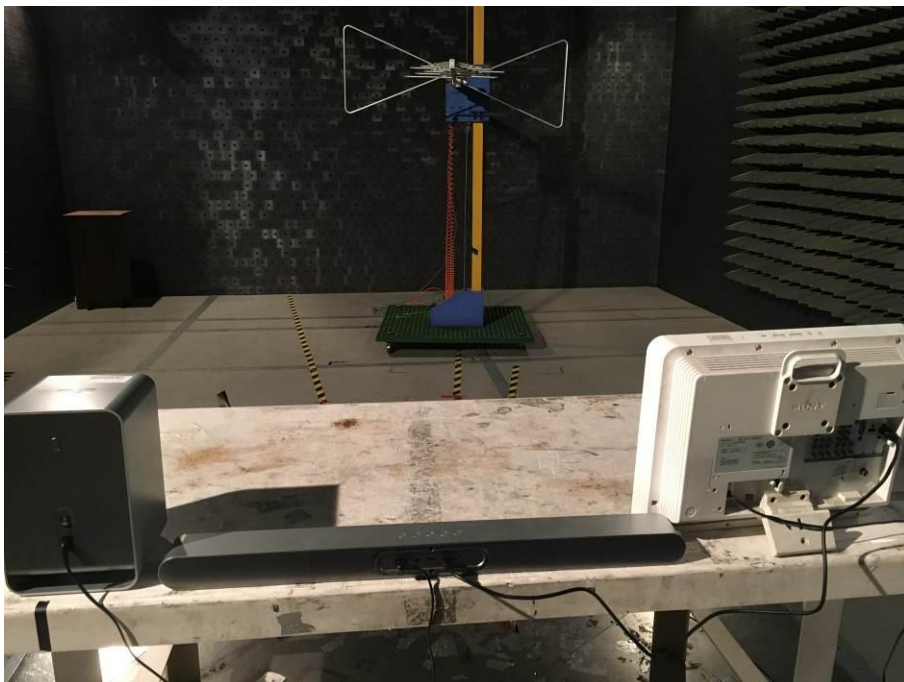
No.	Frequency MHz	Factor dB	Reading dBuV/m	Emission dBuV/m	Limit dBuV/m	Margin dB	Tower / Table cm deg	
1	1102.00	29.05	-1.09	27.95	54.00	-26.05	99	0
2	1238.00	29.55	-1.04	28.51	54.00	-25.49	100	0
3	1408.00	30.13	-1.14	28.99	54.00	-25.01	99	0
4	1612.00	29.94	-0.90	29.04	54.00	-24.96	99	0
5	1782.00	30.09	-1.41	28.68	54.00	-25.32	99	0
* 6	1986.00	31.07	-1.70	29.37	54.00	-24.63	100	0

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





6 PHOTOGRAPHS OF THE EUT













7 APPENDIX - INFORMATION ON THE TESTING LABORATORIES

We, BUREAU VERITAS ADT (Shanghai) Corporation, were founded in 2004 to provide our best service in EMC, Radio and Vehicle consultation. Our laboratories are accredited by the following accreditation bodies according to ISO/IEC 17025 (2005) .

USA	A2LA Certificate No.: 2343.01
China	CNAS Certificate No.: L2810

Copies of accreditation certificates could be inquired from our office. If you have any comments, please feel free to contact us at the following:

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