

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R01-2100200

FCC REPORT

Applicant: SHENZHEN LOFTYNN INTELLIGENCE CO., LTD.

Address of Applicant: ROOM 812 BLK G PANORAMA, DALANG COMMUNITY

XINAN BAOAN, SHENZHEN, China P.R,C

Equipment Under Test (EUT)

Product Name: Baby Monitor

Model No.: A2HD

FCC ID: 2AJD6-A2HDT

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 25 Apr., 2021

Date of Test: 25 Apr., to 10 Jun., 2021

Date of report issued: 11 Jun., 2021

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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





2 Version

Version No.	Date	Description
00	11 Jun., 2021	Original

Tested by:	Carey Chen	Date:	11 Jun., 2021	
	Test Engineer	_		

Reviewed by:

| Date: 11 Jun., 2021 | Project Engineer | Date: | Date:

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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: The EUT not applicable of the test item.

Test Method: ANSI C63.4:2014

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5 General Information

5.1 Client Information

Applicant:	SHENZHEN LOFTYNN INTELLIGENCE CO., LTD.
Address:	ROOM 812 BLK G PANORAMA, DALANG COMMUNITY XINAN BAOAN, SHENZHEN, China P.R,C
Manufacturer/ Factory:	EXVISION INDUSTRIES LIMITED
Address:	3/F, No. 65, Gongye 6th Road, Longyan, Humen, Dongguan, 523925 China, P.R.C

5.2 General Description of E.U.T.

Product Name:	Baby Monitor	
Model No.:	A2HD	
AC adapter:	Model: GQ07-075050-AU	
	Input: AC100-240V, 50/60Hz, 0.3A	
	Output: DC 7.5V, 500mA	
Test Sample Condition:	The test samples were provided in good working order with no visible defects.	

5.3 Test Mode and test samples plans

Operating mode	Detail description
Working mode	Keep the EUT in Working mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

Test Samples Plans:

Samples Number	Used for Test Items
1#	Conducted Emission
2#	Radiated Emission
3#	EUT constructional details

Remark: Jian Yan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)



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5.5 Description of Support Units

N/A

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

N/A

5.8 Additions to, deviations, or exclusions from the method

No

5.9 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.10 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.





5.11 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2020	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919	b
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-03-2021	03-02-2022
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2020	06-17-2021
Cable	HP	10503A	N/A	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		

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Test results and Measurement Data

6.1 Conducted Emission

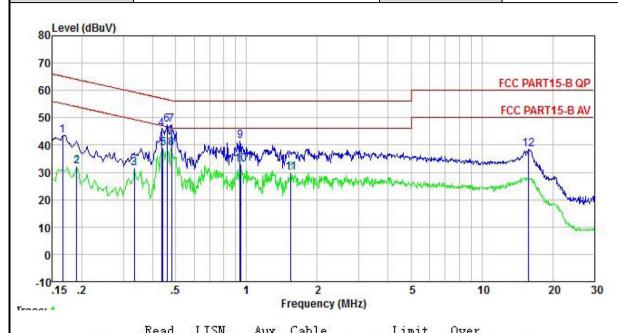
Test Requirement:	FCC Part 15 B Section 15.107				
Test Frequency Range:	150kHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Limit (dRu\/)				
	Frequency range (MHZ) Quasi-peak Average				
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	0.5-30	60	50		
	* Decreases with the logarithm	of the frequency.			
Test setup:	Reference Plane LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane Remark E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4(latest version) on conducted measurement. 				
Test Instruments:	Refer to section 5.11 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				





Measurement data:

Product name:	Baby Monitor	Product model:	A2HD
Test by:	Carey	Test mode:	monitor mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



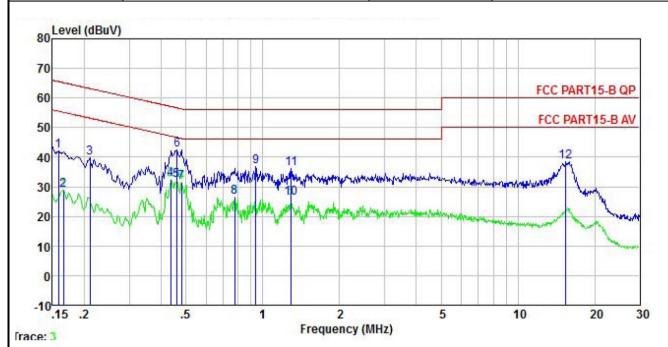
	Freq	Kead Level	Factor	Factor	Loss	Level	Limit	Limit	Remark
=-	MHz	dBu∜	<u>d</u> B	<u>ab</u>		—dBu∀	—dBu∜	<u>d</u> B	
1	0.166	33.47	10.13	0.00	0.01	43.61	65.16	-21.55	QP
2	0.190	22.01	10.14	0.00	0.03	32.18	54.02	-21.84	Average
1 2 3 4 5 6 7 8	0.334	21.12	10.24	0.00	0.02	31.38	49.35	-17.97	Average
4	0.435	35.37	10.30	0.00	0.03	45.70	57.15	-11.45	QP
5	0.442	28.32	10.31	0.00	0.03	38.66	47.02	-8.36	Average
6	0.459	37.11	10.32	0.00	0.03	47.46	56.71	-9.25	QP
7	0.481	37.11	10.33	0.00	0.03	47.47	56.32	-8.85	QP
8	0.481	28.59	10.33	0.00	0.03	38.95	46.32	-7.37	Average
9	0.938	30.89	10.47	0.00	0.04	41.40	56.00	-14.60	QP
10	0.943	22.22	10.47	0.00	0.04	32.73	46.00	-13.27	Average
11	1.544	19.16	10.52	0.00	0.15	29.83	46.00	-16.17	Average
12	15.718	27.21	11.06	0.00	0.15	38.42	60.00	-21.58	QP

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level = Receiver Read level + LISN Factor + Cable Loss.

Project No.: JYTSZE2104101



Product name:	Baby Monitor	Product model:	A2HD
Test by:	Carey	Test mode:	monitor mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level		Aux Factor	Cable Loss		Limit Line	Over Limit	Remark
	MHz	dBu∜	dB	<u>d</u> B		dBu₹	dBu∜	<u>dB</u>	
1	0.158	32.20	9.90	0.00	0.01	42.11	65.56	-23.45	QP
2	0.166	19.03	9.90	0.00	0.01	28.94	55.16	-26.22	Average
3	0.211	29.75	9.93	0.00	0.03	39.71	63.18	-23.47	QP
4	0.435	22.31	10.15	0.00	0.03	32.49	47.15	-14.66	Average
5	0.459	22.05	10.17	0.00	0.03	32.25	46.71	-14.46	Average
6	0.461	32.38	10.17	0.00	0.03	42.58	56.67	-14.09	QP
7	0.481	21.13	10.19	0.00	0.03	31.35	46.32	-14.97	Average
1 2 3 4 5 6 7 8 9	0.775	15.93	10.42	0.00	0.03	26.38			Average
9	0.938	26.32	10.53	0.00	0.04	36.89	56.00	-19.11	QP
10	1.289	15.55	10.65	0.00	0.11	26.31	46.00	-19.69	Average
11	1.296	25.41	10.65	0.00	0.11	36.17		-19.83	
12	15.388	26.97	11.41	0.00	0.15	38.53		-21.47	7 (C. 7)

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.





6.2 Padiated Emission

T. (D. '	E00 De 4 45 D 0	4 = 40					
Test Requirement:	FCC Part 15 B Se		19				
Test Frequency Range:	30MHz to 6000M	Hz					
Test site:	Measurement Dis	stance: 3m (Sem	i-Anechoic (Chamber)		
Receiver setup:	Frequency	Detecto	r	RBW	VBW	Remark	
	30MHz-1GHz	Quasi-pe	ak	120kHz	300kHz	Quasi-peak Value	
	Above 1GHz	Peak		1MHz	3MHz	Peak Value	
	RMS 1MHZ 3MHZ Average valu						
Limit:	Frequency Limit (dBuV/m @3m) Remark 30MHz-88MHz 40.0 Quasi-peak Va						
	88MHz-216I			43.5		Quasi-peak Value	
	216MHz-960			46.0		Quasi-peak Value	
	960MHz-10			54.0		Quasi-peak Value	
				54.0		Average Value	
	Above 1G	HZ		74.0		Peak Value	
Test setup:	Below 1GHz Turn Table Ground Plane Above 1GHz	4m		RFR			
	AE (Turnt	W V V	3m		Antenna Tower		
Test Procedure:	ground at a 3 r degrees to dete 2. The EUT was s which was mou 3. The antenna he ground to dete	meter semi- ermine the p set 3 meters unted on the eight is vari rmine the m	anech positions awa top ed from axim	noic camber on of the hig ly from the i of a variable om one mete um value of	The table The table	e-receiving antenna, ntenna tower. neters above the	





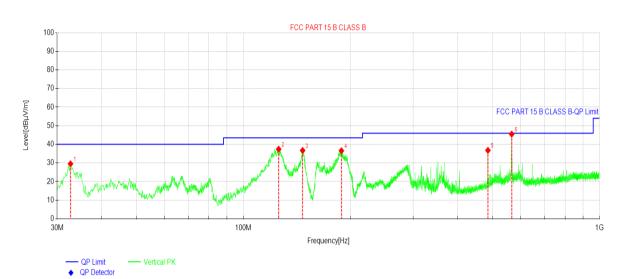
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. 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.
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded



Measurement Data:

Below 1GHz:

Product Name:	Baby Monitor	Product Model:	A2HD
Test By:	Carey	Test mode:	monitor mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.₽	Freq.⊬ [MHz]∂	Reading[d BµV/m]∂	Level⊬ [dBµV/m]⊬	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Polarity∂
1₽	32.7163	47.40₽	29.55₽	-17.85₽	40.00₽	10.45₽	Vertical₽
2₽	125.651	56.23₽	37.40₽	-18.83₽	43.50₽	6.10₽	Vertical₽
3₽	146.702	56.99₽	36.71₽	-20.28₽	43.50₽	6.79₽	Vertical₽
4 0	188.513	54.32₽	36.57₽	-17.75₽	43.50₽	6.93₽	Vertical₽
5₽	486.042	46.72₽	36.76₽	-9.96₽	46.00₽	9.24₽	Vertical₽
6₽	566.948	54.69₽	45.50₽	-9.19₽	46.00₽	0.50₽	Vertical₽

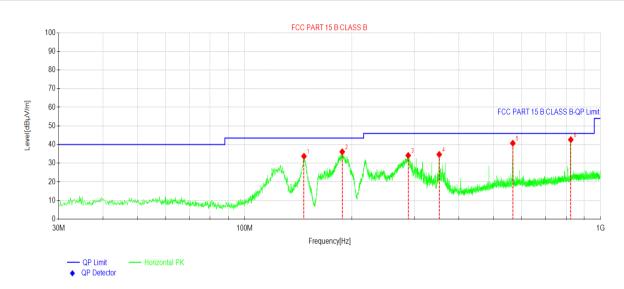
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- The Aux Factor is a notch filter switch box loss, this item is not used.

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Product Name:	Baby Monitor	Product Model:	A2HD
Test By:	Carey	Test mode:	monitor mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq.∉ [MHz]∂	Reading[d BµV/m]∂	Level⊬ [dBµV/m]∂	Factor⊌ [dB]⊌	Limit⊬ [dBµV/m]⊬	Margin⊲ [dB]⊬	Polarity∂
1₽	146.799	53.98₽	33.72₽	-20.26₽	43.50₽	9.78₽	Horizontal₽
2↩	188.028	53.93₽	36.13₽	-17.80₽	43.50₽	7.37₽	Horizontal₽
3₽	288.142	48.46₽	34.15₽	-14.31₽	46.00₽	11.85₽	Horizontal₽
4 🕫	352.169	47.64₽	34.69₽	-12.95₽	46.00₽	11.31₽	Horizontal₽
5₽	566.948	49.92₽	40.73₽	-9.19₽	46.00₽	5.27₽	Horizontal₽
6₽	824.994	47.47₽	42.63₽	-4.84₽	46.00₽	3.37₽	Horizontal₽

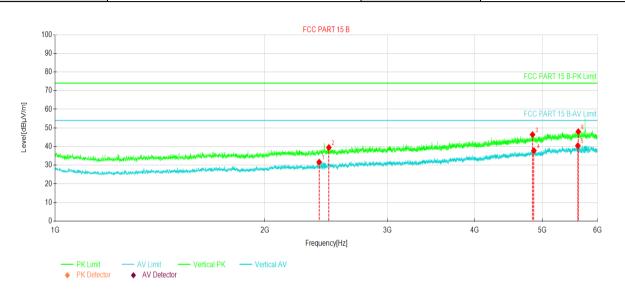
Remark.

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Above 1GHz:

Product Name:	Baby Monitor	Product Model:	A2HD
Test By:	Carey	Test mode:	monitor mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



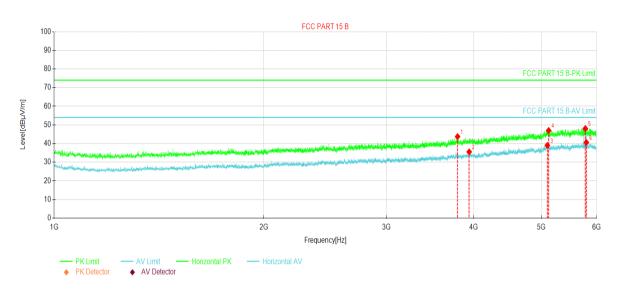
Suspe	Suspected Data List												
NO :	Freq.⊌	Reading⊎	Level⊬	Factor⊎	Limit⊬	Margin⊎	T	Delegitor					
NO.₽	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]₽	[dBµV/m]∂	[dB]∂	Trace₽	Polarity∂					
1₽	2392.63	51.43₽	31.62₽	-19.81₽	54.00₽	22.38₽	AV₽	Vertical₽					
24□	2470.14	59.07₽	39.49₽	-19.58₽	74.00₽	34.51₽	PK₽	Vertical₽					
3₽	4840.88	57.01₽	46.39₽	-10.62₽	74.00₽	27.61₽	PK₽	Vertical₽					
4.₽	4863.38	48.31₽	37.80₽	-10.51₽	54.00₽	16.20₽	AV₽	Vertical₽					
5₊∍	5622.96	48.81₽	40.48₽	-8.33₽	54.00₽	13.52₽	AV₽	Vertical₽					
64□	5631.46	56.28₽	47.99₽	-8.29₽	74.00₽	26.01₽	PK₽	Vertical₽					

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	Baby Monitor	Product Model:	A2HD		
Test By:	Carey	Test mode:	monitor mode		
Test Frequency:	1 GHz ~ 6 GHz	Polarization: Horizontal			
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



Suspected Data List₽										
NO.₽	Freq.⊌	Reading⊎	Level⊬	Factor⊎	Limit∉	Margin⊎	Trace₽	Polarity₽		
	[MHz]∂	[dBµV/m]∂	[dBµV/m]∂	[dB]∂	[dBµV/m]∂	[dB]∂				
1₽	3791.77	58.82₽	43.75₽	-15.07₽	74.00₽	30.25₽	PK₽	Horizontal₽		
2↩	3939.79	50.24₽	35.54₽	-14.70₽	54.00₽	18.46₽	AV₽	Horizontal@		
3↩	5100.91	47.88₽	39.02₽	-8.86↩	54.00₽	14.98₽	AV₽	Horizontal₽		
4 42	5122.91	55.99₽	47.01₽	-8.98₽	74.00₽	26.99₽	PK₽	Horizontal₽		
5↔	5782.97	56.42₽	48.03₽	-8.39₽	74.00₽	25.97₽	PK₽	Horizontal@		
6↩	5801.98	49.07₽	40.61₽	-8.46↩	54.00₽	13.39₽	AV₽	Horizontal₽		

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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