

EMC TEST REPORT

According to

47 CFR, Part 15B, CISPR PUB. 22

Applicant : Suzhou Switek Electronics&Technology Co, Ltd.

No.86, South WuSong Road, Luzhi Town, Wuzhong Address

District, Suzhou City.

Equipment: HDMI KVM SWITCH

Model No. : AS-9108HA, AS-9116HA, AS-9104HA

FCC ID ZQXAS-9116HA

I HEREBY CERTIFY THAT:

The sample was received on Apr. 01, 2019 and the testing was carried out on Apr. 09, 2019 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Miro Chueh

EMC/RF B.U. Manager

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EMC TEST REPORT

Issued by:

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The test record, data evaluation & Equipment. Under Test configurations represented herein are true and accurate accounts of the measurements of the samples EMC characteristics under the conditions specified in this report.

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History of this test report

Report No.:SEFD1903072

■ ORIGINAL.

 \square Additional attachment as following record:

Report No	Version	Date	Description
SEFD1903072	Rev 01	Apr. 10, 2019	Initial Issue

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1. Summary of Test Procedure and Test Result

1.1. Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.4 – 2014 and the energy emitted by this equipment was passed 47 CFR, Part 15B, CISPR PUB. 22.

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The energy emitted by this equipment was passed both Radiated and Conducted Emissions Class B limits.

Test Item	Normative References	Test Result
Conducted Emission	ANSI C63.4-2014 FCC Part 15 Subpart B	PASS
Radiated Emission	ANSI C63.4-2014 FCC Part 15 Subpart B	PASS

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2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Product Name:	HDMI KVM SWITCH		
Model Name:	AS-9108HA,AS-9116HA,AS-9104HA		
Remark:	They are similar except for model name and the number of ports.		

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Note: Please refer to user manual.

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2.2. Test Manner

a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.

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- b. Turn on the power of all equipment.
- c. The complete test system included PC, Keyboard, Mouse, Monitor and EUT for EMI test.
- d. The test mode as follow:

Mode 1 Full system for AS-9116HA

The "Test Mode 1" was reported as final data.

e. The maximum operating frequency is above 108MHz, the test frequency range is from 30MHz to 18GHz.

2.3. Description of Test System

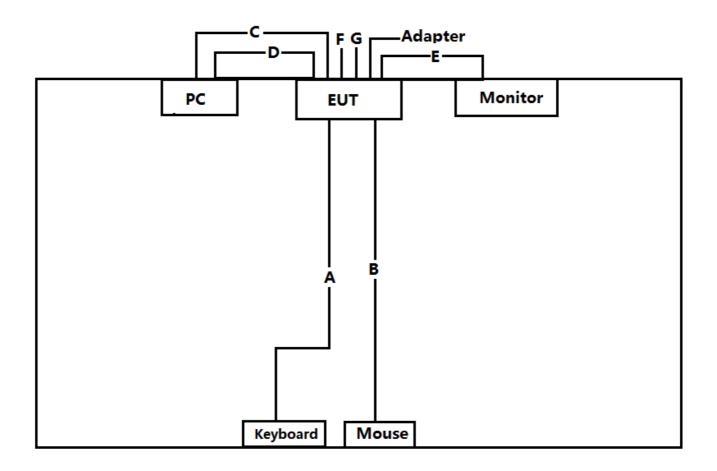
No.	Device	Manufacturer	Model No.	Description
1	PC	HP	HP Compaq Elite 8200	Non-Shielded ,1.8m
'	PC	ПР	MTPC	Non-Sillelaea , r.om
2	Keyboard	DELL	SK-8115	T3A002
3	Mouse	DELL	G0K02XYK	R41108
4	Monitor	Lenovo	L2364wA	R33B65

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2.4. Connection Diagram of Test System



Use Cable:

	70 04.010.						
No	Cable	Quantity	Description				
Α	USB Cable	1	Non-Shielded, 1.5m				
В	USB Cable	1	Non-Shielded, 1.8m				
С	USB Cable	1	Shielded, 1.8m, with two ferrites core bonded				
D	HDMI Cable	1	Shielded,1.5m,with two ferrites core bonded				
Е	HDMI Cable	1	Shielded,1.5m, with two ferrites core bonded				
F	HDMI Cable	15	Shielded,1.5m, with two ferrites core bonded				
G	USB Cable	15	Shielded, 1.8m, with two ferrites core bonded				

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2.5. General Information of Test

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	Cerpass Techi	nology (Suzhou) Co.,Ltd			
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	China				
	Tel: +86-512-69	917-5888			
	Fax: +86-512-6	917-5666			
M	CNAS	L5515			
⊠Test Site	FCC	CN1243			
	A2LA	4981.01			
	IC	7920A-1, 7920A-2			
		T-1945 for Telecommunication Test			
	VCCI	C-2919 for Conducted emission test			
	VCCI	R-2670 for Radiated emission test			
		G-227 for radiated disturbance above 1GHz			

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2.6. 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:

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Measurement	Frequency	Uncertainty
Conducted emissions(LINE)	9KHz-30MHz	+/- 0.6847dB
Conducted emissions(NEUTRAL)	9KHz-30MHz	+/- 0.6763dB

Measurement	Polarity	Frequency	Uncertainty
	11	30MHz ~ 200MHz	+/- 4.0702dB
Radiated emissions	Н	200MHz ~1000MHz	+/- 3.9158dB
(below 1GHz)	V	30MHz ~ 200MHz	+/- 4.0704dB
		200MHz ~1000MHz	+/- 3.9167dB
	11	1000MHz ~18000MHz	+/- 3.8864dB
Radiated emissions	Н	18000MHz ~40000MHz	+/-3.9314dB
(above 1GHz)	V	1000MHz ~18000MHz	+/- 3.8896dB
	V	18000MHz ~40000MHz	+/- 3.8766dB

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

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3. Test of Conducted Emission

3.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2014. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in ANSI C63.4-2014. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

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Conducted Emission Limits:

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

3.2. Test Procedures

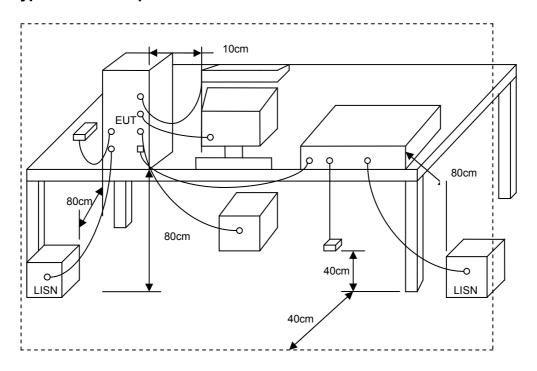
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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3.3. Typical test Setup



3.4. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Test Receiver	R&S	ESCI	100565	2018.07.18	2019.07.17
AMN	R&S	ESH2-Z5	100182	2018.08.25	2019.08.24
ISN	FCC	FCC-TLISN-T2-02	20379	2019.03.11	2020.03.10
ISN	FCC	FCC-TLISN-T4-02	20380	2018.06.14	2019.06.13
ISN	SCHWARZBECK	T8 CAT6	173	2018.07.18	2019.07.17
ISN	TESEQ	ISN ST08	30175	2018.08.25	2019.08.24
ISN	TESEQ	ISN S751	31531	2018.08.25	2019.08.24
LISN	FCC	FCC-LISN-50-200-2-02	112087	2018.08.25	2019.08.24
LISN	SCHWARZBECK	NSLK 8127	8127-920	2018.08.25	2019.08.24
LISN	R&S	ENV216	100325	2018.08.25	2019.08.24
Current Probe	R&S	EZ-17	100303	2019.03.17	2020.03.16
Passive Voltage Probe	R&S	ESH2-Z3	100026	2019.03.17	2020.03.16
Pulse Limiter	R&S	ESH3-Z2	100529	2019.03.11	2020.03.10
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2019.03.17	2020.03.16
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A

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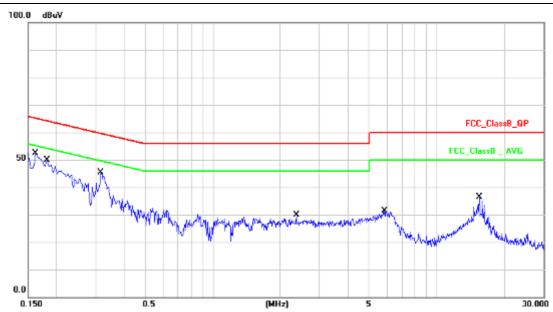
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3.5. Test Result and Data

Test Mode: Mode 1: Full system for AS-9116HA

AC Power: AC 120V/60Hz Phase: LINE Temperature: 25°C Humidity: 52%

Pressure(mbar): 1002 Date: 2019/04/08



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.1620	10.15	39.40	49.55	65.36	-15.81	QP
2	0.1620	10.15	21.39	31.54	55.36	-23.82	AVG
3	0.1819	10.13	36.42	46.55	64.39	-17.84	QP
4	0.1819	10.13	19.11	29.24	54.39	-25.15	AVG
5	0.3180	10.14	31.90	42.04	59.76	-17.72	QP
6	0.3180	10.14	24.74	34.88	49.76	-14.88	AVG
7	2.3699	10.20	13.66	23.86	56.00	-32.14	QP
8	2.3699	10.20	6.68	16.88	46.00	-29.12	AVG
9	5.8460	10.27	16.54	26.81	60.00	-33.19	QP
10	5.8460	10.27	9.45	19.72	50.00	-30.28	AVG
11	15.4980	10.55	21.69	32.24	60.00	-27.76	QP
12	15.4980	10.55	16.98	27.53	50.00	-22.47	AVG

Note: Measurement Level = Reading Level + Correct Factor



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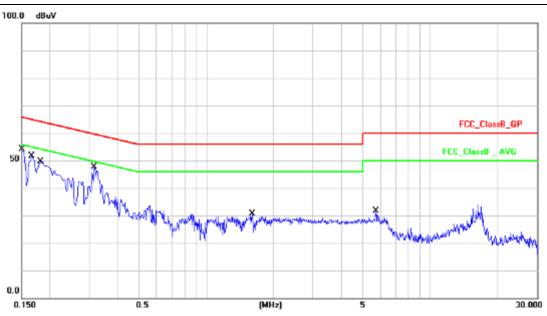
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Test Mode: Mode 1: Full system for AS-9116HA

AC Power: AC 120V/60Hz Phase: NEUTRAL

Temperature: 25°C Humidity: 52%

Pressure(mbar): 1002 Date: 2019/04/08



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.1500	10.15	41.14	51.29	65.99	-14.70	QP
2	0.1500	10.15	23.83	33.98	55.99	-22.01	AVG
3	0.1660	10.15	38.28	48.43	65.15	-16.72	QP
4	0.1660	10.15	20.78	30.93	55.15	-24.22	AVG
5	0.1819	10.14	36.63	46.77	64.39	-17.62	QP
6	0.1819	10.14	19.31	29.45	54.39	-24.94	AVG
7	0.3180	10.14	33.00	43.14	59.76	-16.62	QP
8	0.3180	10.14	25.07	35.21	49.76	-14.55	AVG
9	1.6060	10.19	14.63	24.82	56.00	-31.18	QP
10	1.6060	10.19	9.78	19.97	46.00	-26.03	AVG
11	5.7260	10.28	15.13	25.41	60.00	-34.59	QP
12	5.7260	10.28	9.62	19.90	50.00	-30.10	AVG

Note: Measurement Level = Reading Level + Correct Factor

Test engineer:	Vane	Xta	
rest crigirieer.			

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4. Test of Radiated Emission

4.1. Test Limit

Below 1GHz (for digital device)

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

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EDECHENCY (MU-)	dBuV/m (At 10m)			
FREQUENCY (MHz)	Class A	Class B		
30 ~ 230	40	30		
230 ~ 1000	47	37		

Limit tables for non-digital device:

Class A Radiated Emission limit at 10m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	90	39
88 - 216	150	43.5
216 – 960	210	46.4
Above 960	300	49.5

Class B Radiated Emission limit at 3m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	100	40
88 - 216	150	43.5
216 – 960	200	46
Above 960	500	54

Above 1GHz(for all device)

	Class A (dBu	V/m) (At 10m)	Class B (dBuV/m) (At 3m)		
Frequency (MHZ)	Average	Peak	Average	Peak	
Above 1000	49.5	69.5	54	74	

NOTE: (1) The lower limit shall apply at the transition frequencies.

- (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
- (3) The measurement above 1GHz is at close-in distances 3m,and determine the limit L2 corresponding to the close-in distance d2 by applying the following relation: L2 = L1 (d1/d2), where L1 is the specified limit in microvolts per metre (uV/m) at the distance d1 (10m), L2 is the new limit for distance d2 (3m).

So the new Class A limit above 1GHz at 3m is as following table:

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	Class A (dBuV/m) (At 3m)		
Frequency (MHZ)	Average	Peak	
Above 1000	60	80	

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According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)		
Below 1.75	30		
1.75-108	1000		
108-500	2000		
500-1000	5000		
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower		

4.2. Test Procedures

Procedure of Preliminary Test

- The EUT was set up as per the test configuration to simulate typical usage per the user's manual. The EUT was placed on a Turn table top 0.8 meter above ground.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC 120VAC/60Hz power source from the outlet socket under the turntable.
 All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The
 antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be
 used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Set the spectrum analyzer/ Receiver in the following setting as:

Below 1GHz:

RBW=120KHz / VBW=300KHz / Sweep=AUTO

Above 1GHz:

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Peak: RBW=1MHz, VBW=3MHz / Sweep=AUTO Average: RBW=1MHz / VBW=1.6Hz / Sweep=AUTO

• The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

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Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. Below 1GHz the Q.P. reading and above 1GHz the Peak and Average reading are presented.
- The test data of the worst-case condition(s) was recorded.

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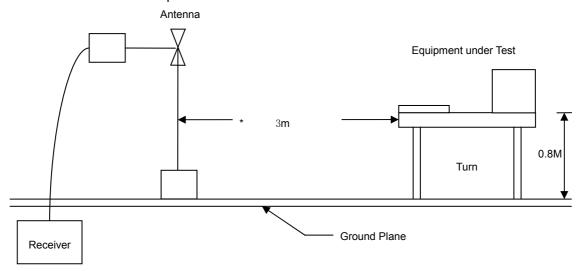
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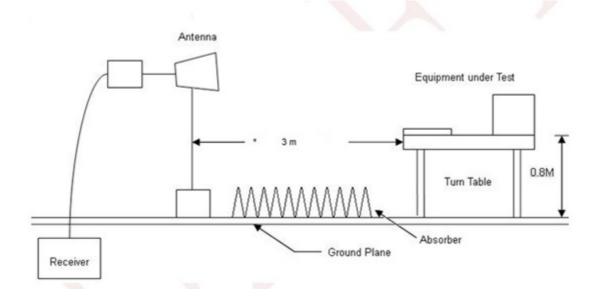
4.3. Typical test Setup

Below 1GHz Test Setup

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Above 1GHz Test Setup



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4.4. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.	
EMI Test Receiver	R&S	ESCI7	100968	2018.08.25	2019.08.24	
Preamplifier	EMCI	EMCI030-00-3230	SN016723	2019.03.11	2020.03.10	
Preamplifier	Agilent	8449B	3008A02342	2019.03.11	2020.03.10	
Bilog Antenna	Sunol Science	JB1	A072414-2	2018.07.20	2019.07.19	
Broad-Band Horn	Schwarzbeck	BBHA9120D	9120D-618	2018.04.21	2019.04.20	
Antenna	Scriwarzbeck	BBHA9120D	91200-010	2010.04.21	2019.04.20	
Spectrum Analyzer	R&S	FSP40	100324	2018.08.23	2019.08.22	
Temperature/ Humidity	Zhiahana	ZC1-11	CED TH 001	2019.03.17	2020 02 46	
Meter	Zhicheng	201-11	CEP-TH-001	2019.03.17	2020.03.16	
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A	

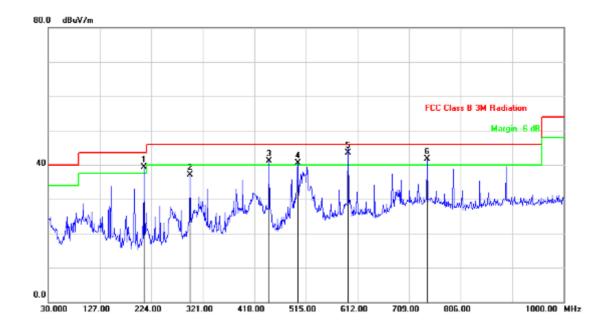
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4.5. Test Result and Data (30MHz~1GHz)

Test Mode :	Mode 1: Full system for AS-9116HA					
AC Power :	AC 120V/60HZ Ant. Polarization: Horizontal					
Temp :	25°C Humidity: 52° C					
Pressure(mbar) :	1002	Date:	2019/04/08			

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No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg)
1	210.4199	-12.30	51.59	39.29	43.50	-4.21	peak	200	203
2	296.7500	-8.39	45.56	37.17	46.00	-8.83	peak	200	302
3	445.1600	-5.95	47.12	41.17	46.00	-4.83	peak	100	62
4	499.4800	-4.89	45.41	40.52	46.00	-5.48	peak	200	312
5	594.5400	-2.13	45.61	43.48	46.00	-2.52	QP	100	115
6	742.9500	1.57	40.17	41.74	46.00	-4.26	peak	200	22

Note: Measurement Level = Reading Level + Correct Factor

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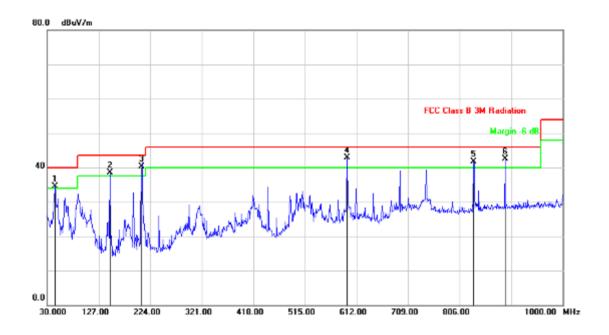


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Test Mode :	Mode 1: Full system for AS-9116HA					
AC Power :	AC 120V/60HZ	Ant. Polarization:	Vertical			
Temp :	25°C	Humidity:	52° C			
Pressure(mbar) :	1002	Date:	2019/04/08			



No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg)
1	44.5500	-8.40	42.99	34.59	40.00	-5.41	peak	200	218
2	148.3400	-12.68	51.22	38.54	43.50	-4.96	peak	200	357
3	208.4798	-12.33	52.62	40.29	43.50	-3.21	QP	200	343
4	594.5400	-2.13	45.07	42.94	46.00	-3.06	peak	200	29
5	832.1900	1.26	40.48	41.74	46.00	-4.26	peak	200	354
6	891.3600	2.17	40.37	42.54	46.00	-3.46	peak	200	20

Note: Measurement Level = Reading Level + Correct Factor

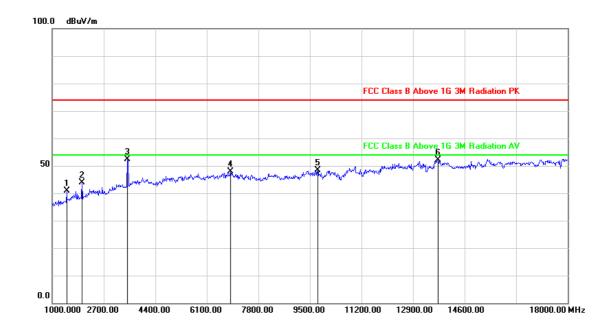
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4.6. Test Result and Data (1GHz ~18GHz)

Test Mode :	Mode 1: Full system for AS-9116HA						
AC Power :	AC 120V/60HZ	Ant. Polarization:	Horizontal				
Temp :	25°C	Humidity :	52° C				
Pressure(mbar) :	1002	Date:	2019/04/08				

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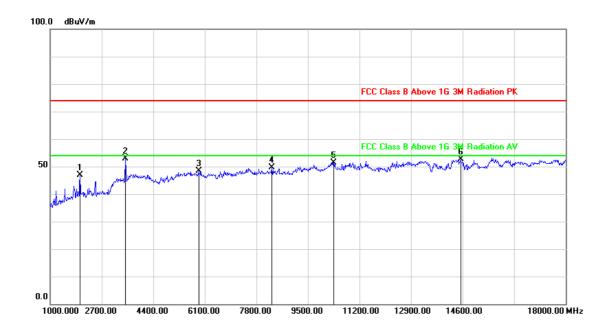


No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg)
1	1476.000	-5.96	46.79	40.83	74.00	-33.17	peak	200	218
2	1986.000	-3.76	47.76	44.00	74.00	-30.00	peak	100	118
3	3482.000	1.45	50.98	52.43	74.00	-21.57	peak	200	213
4	6882.000	7.71	40.26	47.97	74.00	-26.03	peak	100	0
5	9755.000	10.18	38.23	48.41	74.00	-25.59	peak	100	196
6	13733.000	20.36	31.84	52.20	74.00	-21.80	peak	100	202

Note: Measurement Level = Reading Level + Correct Factor

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Test Mode :	Mode 1: Full system for AS-9116HA					
AC Power :	AC 120V/60HZ	Ant. Polarization:	Vertical			
Temp :	25°C	Humidity :	52° C			
Pressure(mbar) :	1002	Date:	2019/04/08			



No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg)
1	1986.000	-3.76	50.65	46.89	74.00	-27.11	peak	200	15
2	3482.000	1.45	51.48	52.93	74.00	-21.07	peak	200	168
3	5896.000	5.37	43.01	48.38	74.00	-25.62	peak	200	184
4	8310.000	9.09	40.54	49.63	74.00	-24.37	peak	200	22
5	10350.000	11.63	39.84	51.47	74.00	-22.53	peak	200	164
6	14532.000	20.03	32.71	52.74	74.00	-21.26	peak	200	89

Note: Measurement Level = Reading Level + Correct Factor

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Test engineer:	1 111 111 111	1111 1111 1111	

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