

FCC CERTIFICATION REPORT

Test Report No. : MH/2018/60176
Applicant : Robotelf Technologies Co., Ltd
Address : 8F.-3, No.408, Ruiguang Rd., Neihu Dist., Taipei city 114,
Taiwan (R.O.C)
Manufacturer : Apexis electronic(Hongkong) Limited
Address : F2/Bld No.11, ShaTwo Bluesky technology industry park,
Shajing of BaoAn district, SZ,518104

Equipment Under Test (EUT) :

Product Name : Elf Eye
Brand Name : Robotelf Technologies Co., Ltd
Model No. : EE001
Added Model(s) : N/A

Standards : FCC Part 15, Subpart B, Class B

Date of Receipt : Jun. 29, 2018
Date of Test : Jun. 29 ~ Sep. 11, 2018
Date of Issue : Sep. 21, 2018

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

Remarks :

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. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Tested By:

Thomas Liu

Date

Sep. 21, 2018

Thomas Liu (Engineer)

Approved By

Wisely Huang

Date

Sep. 21, 2018

Wisely Huang (Asst. Supervisor)

Testing Laboratory
0513

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Revision History

Report Number	Revision	Description	Issue Date
MH/2018/60176	Rev.00	Initial creation of document	Sep. 21, 2018

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1. General Information

1.1 Applicant & Manufacturer Information

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Manufacturer : Apexis electronic(Hongkong) Limited
Address of Manufacturer : F2/Bld No.11, ShaTwo Bluesky technology industry
park, Shajing of BaoAn district, SZ,518104

1.2 General Description of EUT

Product Name : Elf Eye
Brand Name : Robotelf Technologies Co., Ltd
Model No. : EE001
Added Model(s) : N/A
Model Difference : N/A

1.3 Details of EUT

Power Supply : From System
Modes/Function : Mode 1. WiFi Link + Camera + SD Card Rec & Play
Worst case : CE / Below_RE / Above_RE _Worst_ case
Mode 1. WiFi Link + Camera + SD Card Rec & Play
Highest operate description : >108MHz
Adapter : N/A

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1.4 Operation Procedure

Test Mode: 1

1. EUT is inserted into the SD Card and then connected to the Micro USB cable to the NB power on.
2. NB open the WiFi link ElfEye_Y32WTM5GRY3K2G72111A. Execute the webpage 192.168.0.1 (account: admin password: admin) to open the Camera image.
3. The phone turn WiFi link ElfEye_Y32WTM5GRY3K2G72111A, and execute the Sumpple IPCam.app to play the video files stored in the SD card.
4. Start testing.

1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Mouse	Logitech	M-U0026	1738HS05FGU8
Printer	HP	VCVRA-1004	CN33K19J3F
Micro SD	Transcend	16G	N/A
Phone	InFocus	M330	N/A
HDD	ADATA	HD650	1T 1F2420043989
Notebook	DELL	Latitude E6440	CYRVQ32

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
Mouse USB Cable-	N/A	1.6M	Non-shielding
Printer USB Cable-	N/A	2.0M	Shielding
HDD USB Cable-	N/A	1.0M	Shielding

1.6 Modification List

No modification was made by SGS Taiwan Electronics & Communication Laboratory.

1.7 Accessories Cable List

Cable Type	Core	Length	Shielding/Non-shielding
USB Cable-	Near EUT	1.5M	Shielding

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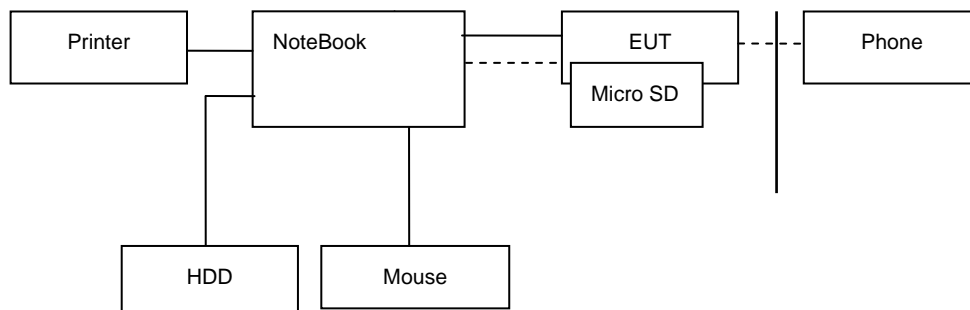
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1.8 Test Set-Up Configuration

Mode_1



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1.9 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.10 Standards Applicable for Testing

Tests to be carried out under FCC Part 15, Subpart B/CISPR 22

Test Standards	Status
FCC Part 15, Subpart B/ CISPR 22	Applicable
Deviation from Standard	No deviation

1.11 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Pol.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Line	0.3620	-9.18 (AVG)
			Neutral	0.3740	-8.80 (AVG)
	Radiated Emission	PASS	Hor.	3244.000	-6.80 (AVG)

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2. EMISSION

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

FCC Part 15, Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or Upper frequency of measurement
used in the device or on which the range (MHz)
device operates or tunes (MHz)

Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15, Subpart B/CISPR 22:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

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

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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2.3.2 Limits of Radiated Emissions

FCC Part 15, Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000-18000	79.3	59.3	73.9	53.9

CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 Additional provisions may be required for cases where interference occurs.

FREQUENCY (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Average	Peak	Average	Peak
1~3	56	76	50	70
3~6	60	80	54	74

NOTE The lower limit applies at the transition frequency.

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2.4. Test of Conducted Emission

2.4.1 Test Equipments

SGS Conducted_Emission HWAYA Conducted Room No.B_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101300	2017/11/1	2018/10/31
Coaxial Cable	EMC Instruments Corp.	EMC5D-BM-BM-3000	1401004	2018/5/25	2019/5/24
LISN	TESEQ	NNB 51	36061	2018/2/26	2019/2/25
Pulse Limiter	R&S	ESH3Z2	102099	2018/6/8	2019/6/7
LISN	TESEQ	NNB 51	36062	2018/3/30	2019/3/29
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.
SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Measurement Uncertainty of Conducted Emission Expanded uncertainty Ulab (K=2) of conducted emission is 2.25 dB Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of AC mains Conducted Emission is 3.44dB					

2.4.2 Operating Environment

Temperature : 22 degree C

Humidity : 64 %RH

Atmospheric Pressure : 992 mBar

2.4.3 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss + Pulse Limiter Insertion Loss

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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2.4.4 Measurement Data:

Model No.:EE001

Mode_1_L

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Mode_1
Note:

Phase: L1
Power: AC 120V/60Hz

Temperature: 22 °C
Humidity: 64 %

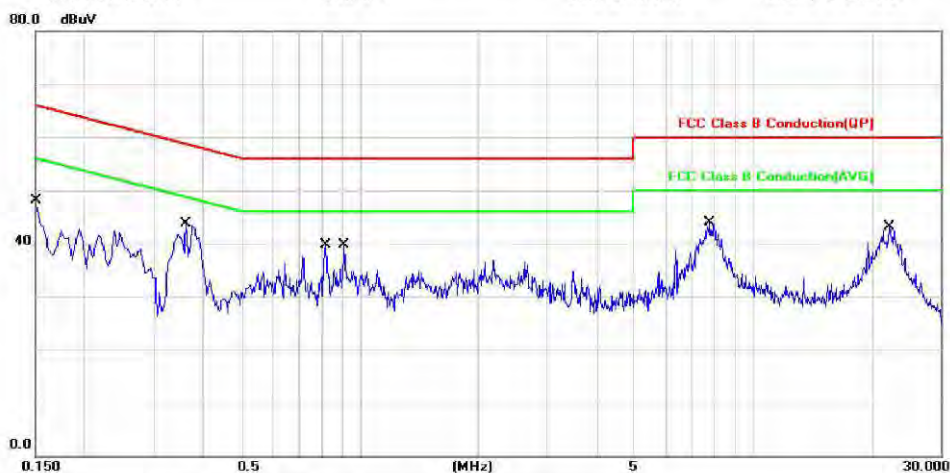
Conducted Emission

File :MH-2018-60176

Data :#1

Date: 2018/9/10

Time: 下午 04:46:51



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	26.20	19.65	45.85	66.00	-20.15	QP	
2		0.1500	12.00	19.65	31.65	56.00	-24.35	AVG	
3		0.3620	21.80	20.00	41.80	58.68	-16.88	QP	
4 *		0.3620	19.50	20.00	39.50	48.68	-9.18	AVG	
5		0.8180	17.40	19.99	37.39	56.00	-18.61	QP	
6		0.8180	13.91	19.99	33.90	46.00	-12.10	AVG	
7		0.9140	16.10	19.91	36.01	56.00	-19.99	QP	
8		0.9140	11.70	19.91	31.61	46.00	-14.39	AVG	
9		7.7700	16.45	19.96	36.41	60.00	-23.59	QP	
10		7.7700	9.85	19.96	29.81	50.00	-20.19	AVG	
11		22.2500	16.70	20.08	36.78	60.00	-23.22	QP	
12		22.2500	9.90	20.08	29.98	50.00	-20.02	AVG	

*:Maximum data x:Over limit !:over margin

File :MH-2018-60176\Data :#1

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Mode_1_N

Site : Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Mode_1
Note:

Phase: **N**
Power: AC 120V/60Hz

Temperature: 22 °C
Humidity: 64 %

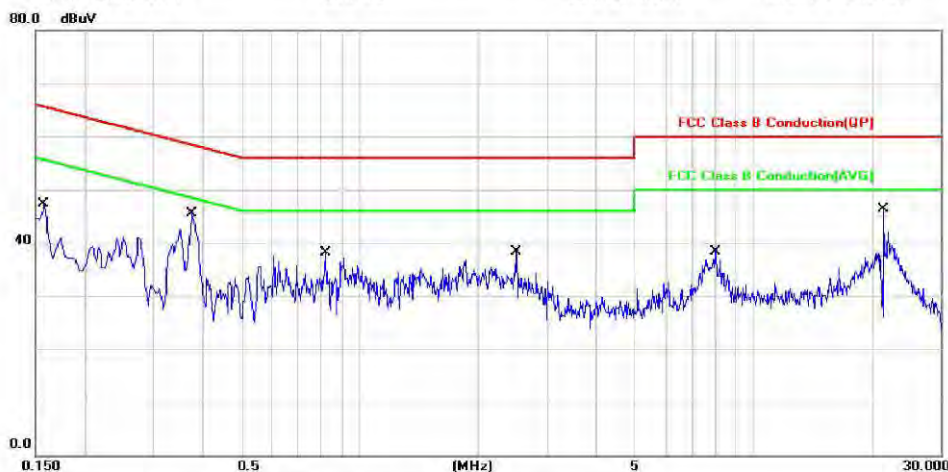
Conducted Emission

File :MH-2018-60176

Data :#2

Date: 2018/9/10

Time: 下午 04:51:30



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1580	19.50	19.66	39.16	65.57	-26.41	QP	
2		0.1580	12.80	19.66	32.46	55.57	-23.11	AVG	
3		0.3740	23.40	20.01	43.41	58.41	-15.00	QP	
4 *		0.3740	19.60	20.01	39.61	48.41	-8.80	AVG	
5		0.8180	17.60	19.98	37.58	56.00	-18.42	QP	
6		0.8180	13.93	19.98	33.91	46.00	-12.09	AVG	
7		2.5060	13.30	20.45	33.75	56.00	-22.25	QP	
8		2.5060	7.00	20.45	27.45	46.00	-18.55	AVG	
9		8.0500	12.56	19.95	32.51	60.00	-27.49	QP	
10		8.0500	6.20	19.95	26.15	50.00	-23.85	AVG	
11		21.5500	16.00	20.10	36.10	60.00	-23.90	QP	
12		21.5500	7.60	20.10	27.70	50.00	-22.30	AVG	

*:Maximum data x:Over limit !:over margin

File :MH-2018-60176\Data :#2

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

SGS Radiated_Below_1GHz HWAYA 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100950	2017/12/12	2018/12/11
EMI Test Receiver	R&S	ESCI 3	101343	2018/1/31	2019/1/30
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2018/9/7	2019/9/6
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2018/9/7	2019/9/6
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	2018/3/31	2019/3/30
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2018/3/31	2019/3/30
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150917	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2017/9/18	2018/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2017/9/18	2018/9/17
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site NSA	Chance Most	10M Chamber	10M SAC	2017/12/31	2018/12/30
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

SGS Taiwan LTD. Electronics & Communication Laboratory

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Measurement Uncertainty of Radiated Emission

Expanded uncertainty U_{lab} (K=2) of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)

Theory values uncertainty U_{cispr} 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)

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Above 1GHz

SGS Radiated_Above_1GHz HWAYA 966A_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101419	2018/5/15	2019/5/14
EMI Test Receiver	R&S	ESR 7	101459	2018/2/21	2019/2/20
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D673	2017/10/16	2018/10/15
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	2017/10/27	2018/10/26
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2018/4/23	2019/4/22
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	2018/4/23	2019/4/22
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2018/4/23	2019/4/22
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2651/2	2018/6/5	2019/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2018/6/5	2019/6/4
Controller	MF	MF-7802	N.C.R.	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site VSWR	SGS	966 Chamber A	SAC-A	2018/1/12	2019/1/11
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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Measurement Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of radiated emission measurement is 5.05 dB. (1-6GHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.07 dB. (6-18GHz)

Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.19 dB. (18-26GHz)

Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.14 dB. (26-40GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.18 dB.(1-6GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.48 dB.(6-18GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(18-26GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(26-40GHz)

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2.5.2 Operating Environment

Temperature : 24 degree C

Humidity : 66 %RH

Atmospheric Pressure : 996 mBar

2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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2.5.4 Measurement Data

Below 1GHz

Model No.:EE001

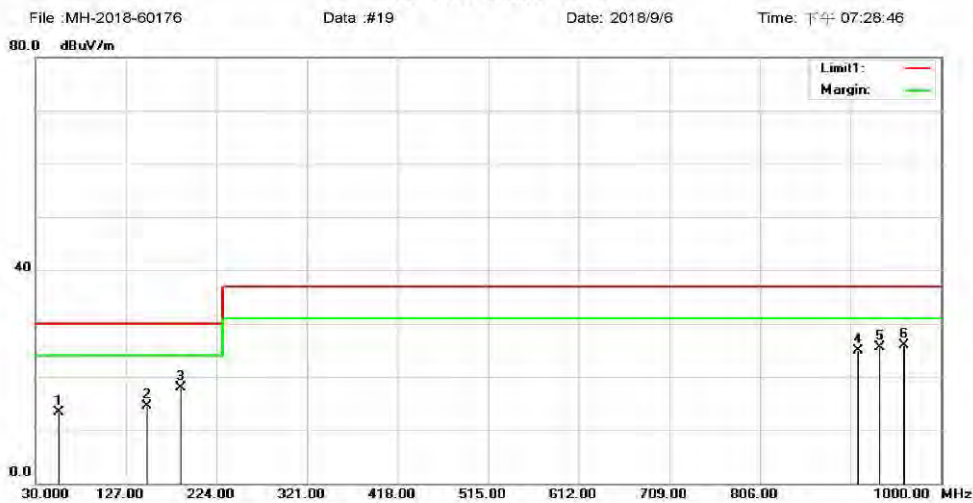
Mode_1_H

Site: SGS 10m Chamber
 Limit: CISPR22 Class B 10M Radiation
 Mode: Mode_1
 Note: USB-Cable add core near EUT

Polarization: **Horizontal**
 Power: From System
 Distance: 10m

Temperature: 24 °C
 Humidity: 66 %

Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		54.4100	24.89	-11.50	13.39	30.00	-16.61	QP	
2		149.3100	25.70	-11.24	14.46	30.00	-15.54	QP	
3		184.3500	31.02	-13.02	18.00	30.00	-12.00	QP	
4		909.8300	23.91	1.04	24.95	37.00	-12.05	QP	
5		934.0400	23.94	1.62	25.56	37.00	-11.44	QP	
6 *		960.1100	24.06	1.90	25.96	37.00	-11.04	QP	

*:Maximum data x:Over limit !:over margin

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Mode_1_V

Site: SGS 10m Chamber
Limit: CISPR22 Class B 10M Radiation
Mode: Mode_1
Note: USB-Cable add core near EUT

Polarization: **Vertical**
Power: From System
Distance: 10m

Temperature: 24 °C
Humidity: 66 %

Radiated Emission

File : MH-2018-60176

Data : #18

Date: 2018/9/6

Time: 下午 07:28:44



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	33.0700	33.20	-12.15	21.05	30.00	-8.95	QP	
2		62.0500	27.06	-11.95	15.11	30.00	-14.89	QP	
3		99.1500	32.58	-16.10	16.48	30.00	-13.52	QP	
4		127.5700	29.80	-12.64	17.16	30.00	-12.84	QP	
5		148.6600	27.22	-10.88	16.34	30.00	-13.66	QP	
6		933.0700	23.31	1.37	24.68	37.00	-12.32	QP	

*: Maximum data x: Over limit !: over margin

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Above 1GHz

Model No.:EE001

Mode_1_H

Site: SGS 966 Chamber A

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Power: AC 120V/60Hz

Humidity: 69 %

Mode: Mode 1

Distance:

Note:

Radiated Emission

File :60176

Date: 2018/9/10

Time: 下午 08:21:54

100.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
		MHz	Level	Factor	ment				
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2513.000	58.86	-11.22	47.64	74.00	-26.36	peak	
2		3244.000	65.05	-11.36	53.69	74.00	-20.31	peak	
3 *		3244.000	58.56	-11.36	47.20	54.00	-6.80	AVG	
4		4332.000	58.25	-7.91	50.34	74.00	-23.66	peak	
5		5369.000	57.67	-6.36	51.31	74.00	-22.69	peak	
6		5369.000	44.94	-6.36	38.58	54.00	-15.42	AVG	
7		5777.000	56.93	-5.26	51.67	74.00	-22.33	peak	
8		5777.000	44.37	-5.26	39.11	54.00	-14.89	AVG	
9		6066.000	55.59	-4.11	51.48	74.00	-22.52	peak	
10		6066.000	42.78	-4.11	38.67	54.00	-15.33	AVG	

*:Maximum data x:Over limit !:over margin

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Mode_1_V

Site: SGS 966 Chamber A

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Power: AC 120V/60Hz

Humidity: 69 %

Mode: Mode 1

Distance:

Note:

Radiated Emission

File :60176

Date: 2018/9/10

Time: 下午 08:18:23

100.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
1		2309.000	64.32	-13.68	50.64	74.00	-23.36	peak	
2		2989.000	64.21	-12.08	52.13	74.00	-21.87	peak	
3 *		2989.000	52.95	-12.08	40.87	54.00	-13.13	AVG	
4		3193.000	62.96	-11.52	51.44	74.00	-22.56	peak	
5		4893.000	57.63	-7.22	50.41	74.00	-23.59	peak	
6		5437.000	56.98	-6.23	50.75	74.00	-23.25	peak	
7		6083.000	55.77	-4.01	51.76	74.00	-22.24	peak	
8		6083.000	43.55	-4.01	39.54	54.00	-14.46	AVG	

*:Maximum data x:Over limit !:over margin

File :60176

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**** End of Report ****

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