

FCC TEST REPORT

Report No.:	ARFR-ESH-P20031102B-3
Product:	Smart Camera
Test Model:	SC031-WNG2-V2
Received:	Mar.11, 2020
Test Date:	Mar.12 to May.28, 2020
ISSUED:	Aug.05, 2020
Applicant:	Hangzhou Tuya Information Technology Co., Ltd
Address:	Room701, Building3, More Center,No.87 GuDun Road, Hangzhou,
	Zhejiang, China
Issued By:	BUREAU VERITAS ADT (Shanghai) Corporation
Lab Location:	No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)



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1. TEST PROGRAM

 PRODUCT: Smart Camera
 TEST MODEL: SC031-WNG2-V2
 APPLICANT: Hangzhou Tuya Information Technology Co., Ltd TESTED: Mar.12 to May.28, 2020
 STANDARDS: 47 CFR FCC Part15, Subpart B, Class B ANSI C63.4:2014

We, BUREAU VERITAS ADT (Shanghai) Corporation, declare that the equipment above has been tested and found compliance with the requirement limits of applicable standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate under the standards herein specified.

PREPARED BY	:, Scott XU Project Engineer	DATE: _	Aug.05, 2020
APPROVED BY	: Daniel Sun ENIC Lab Manager E&E	DATE:	Aug.05, 2020

FCC/IC-ITE V1.1



2. Summary of Test Procedure and Test Results

EMISSION (47 CFR FCC Part15, Subpart B)						
Test Item	Test Result					
Conducted Emission	47 CFR FCC Part15, Subpart B 15.107	Meets the Class B requirements				
Radiated Emission	47 CFR FCC Part15, Subpart B 15.109	Meets the Class B requirements				

Special Comment: All tests were performed on 120Vac 60Hz.



3. Test Configuration of Equipment under Test

3.1 Manufacturer information

Manufacturer : Hangzhou Tuya Information Technology Co., Ltd

Address Room701, Building3, More Center, No.87 GuDun Road, Hangzhou, Zhejiang, China

3.2 Feature of Equipment under Test

Product Name:	Smart Camera
Test Model:	SC031-WNG2-V2
EUT Power Rating:	5VDC/1A with adaptor 100-240Vac~, 50/60Hz

Note: 1.Please refer to user manual.

3.3 Description of support units

NO.	PRODUCT	BRAND	MODEL NO.
1	AC adapter		KA25-0501000US
2	Mobile Phone	Vivo	



3.4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

This listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

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



4 Test of Conducted Emission

4.1 Test Limit

TEST STANDARD:

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

	Class A (dBµV)		Class B (dBµV)	
FREQUENCY (MHz)	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

NOTES: 1. The lower limit shall apply at the transition frequencies.

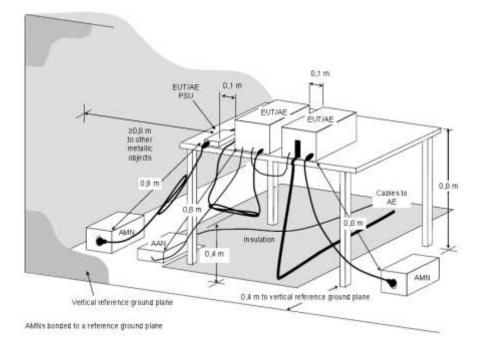
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



4.2 Test Procedures

- 1. The EUT was placed on a desk 0.8 meters height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a Artificial Mains Network (AMN).
- 3. All the support units are connecting to the other AMN.
- 4. The AMN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The CISPR states that a 50 ohm, 50 micro-Henry AMN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched
- 8. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

4.3 Typical Test Setup



NOTE The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be ≥ 0.8 m.

Figure D.2 – Example measurement arrangement for table-top EUT (Conducted emission measurement – alternative 1)



4.4 Measurement Equipment

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1001	Mar.03, 2021
LISN ROHDE & SCHWARZ	ENV216	E1L1011	Jul.16, 2021
Software ADT	ADT_Cond_V7.3.0	N/A	N/A



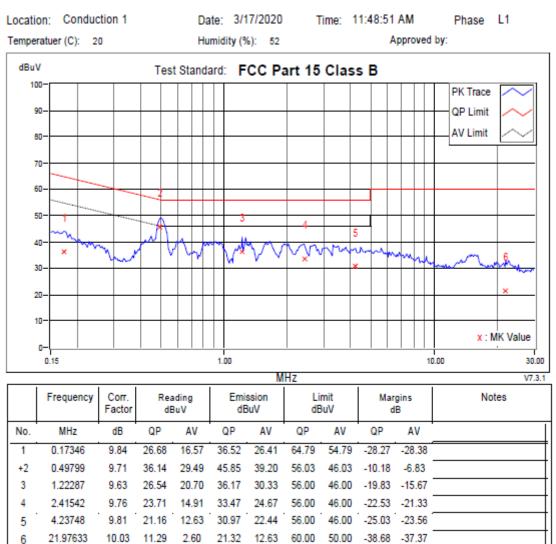
4.5 Test Result and Data

Conducted Emission Test Data a.

120Vac/60Hz

Mode 1:Wireless

Phase : LINE



REMARKS:

6

21.97633

10.03

11.29

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

12.63

60.00

50.00

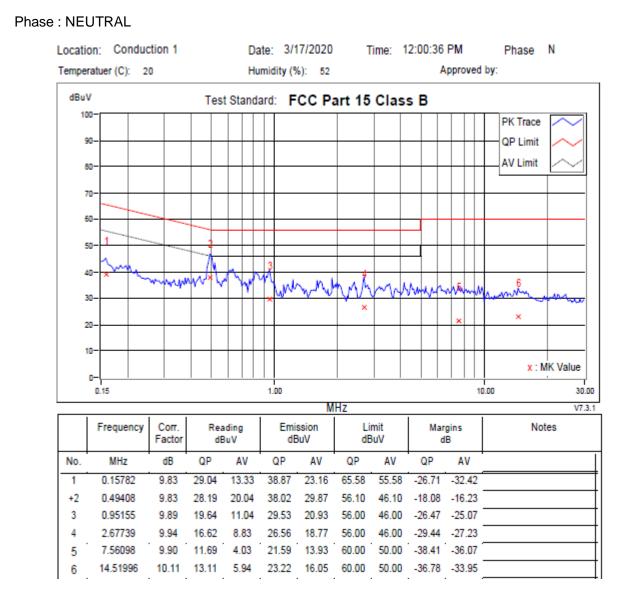
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss

2.60

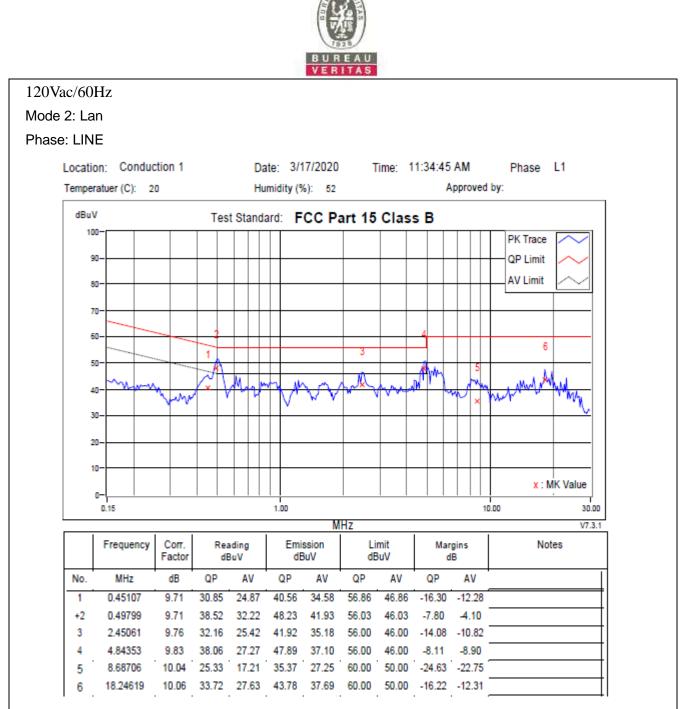
21.32

5. Emission Level = Correction Factor + Reading Value.





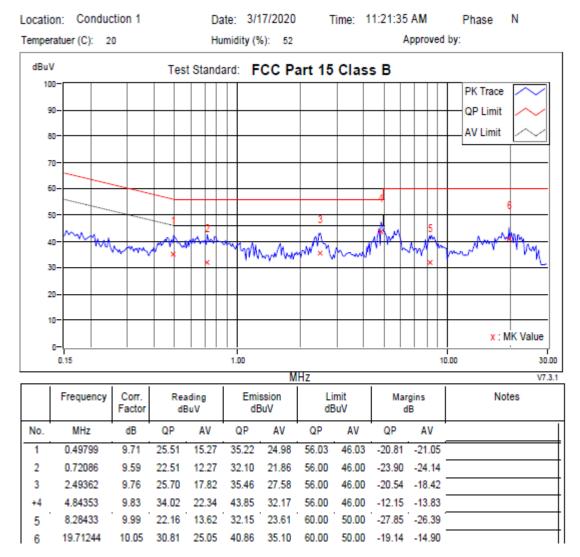
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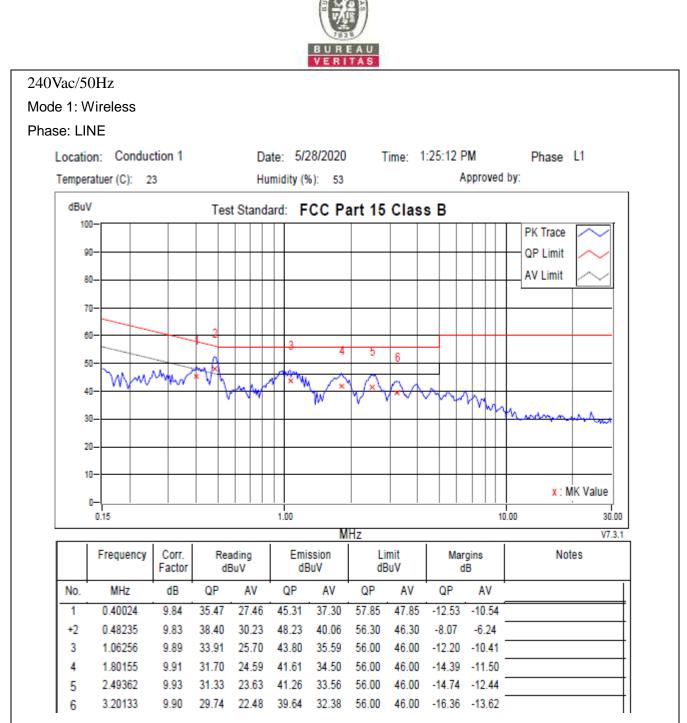
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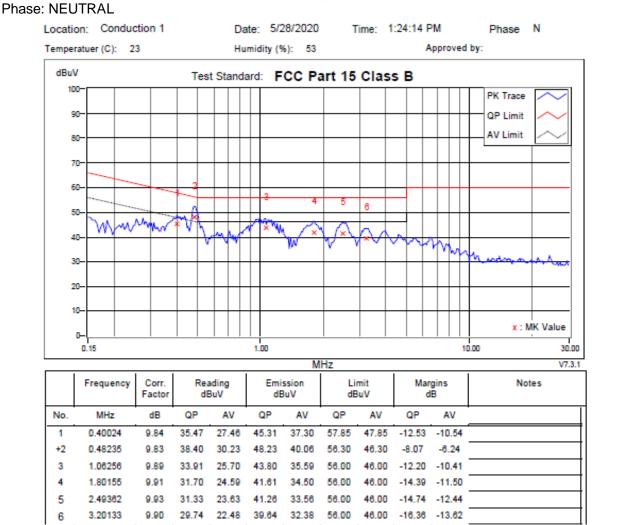


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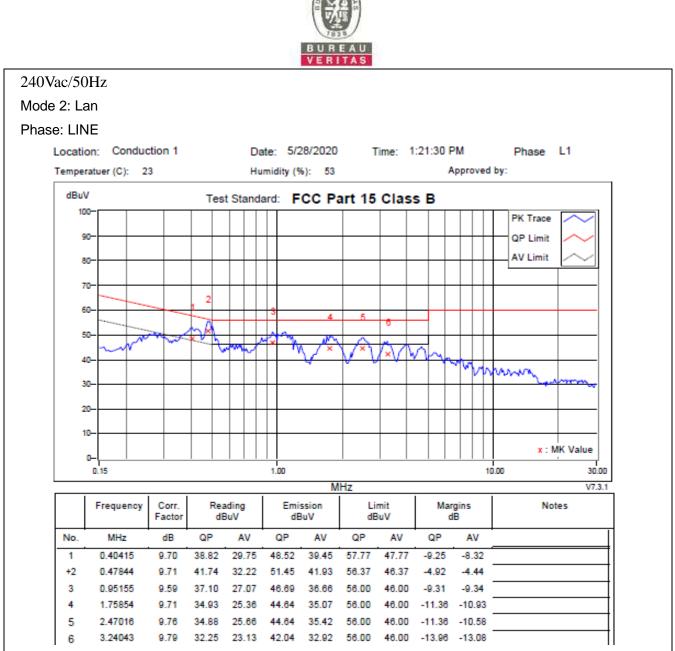


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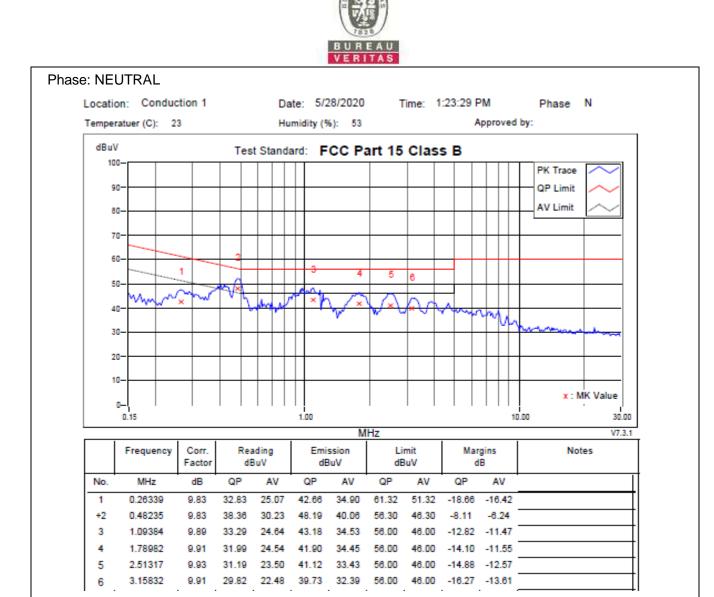




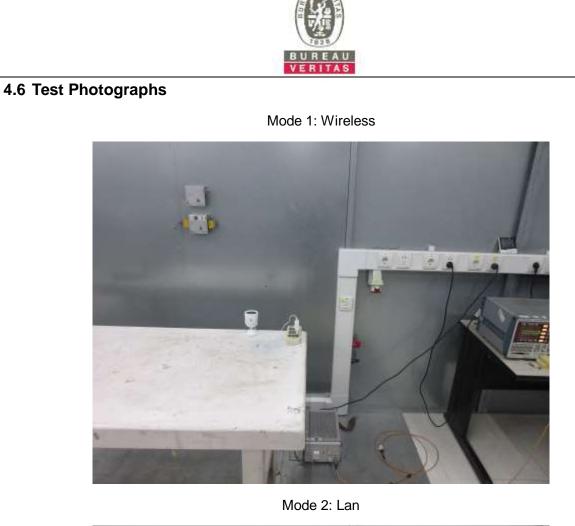
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- 2. The emission levels of other frequencies were very low against the limit.
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5 Test of Radiated Emission

5.1 Test Limit

TEST STANDARD:

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

FOR FREQUENCY BELOW 1000 MHz

	Class A	(at 10m)	Class B	(at 3m)
FREQUENCY (MHz)	μV/m	dBµV/m	μV/m	dBµV/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

	Class A (dBµV/m) (at 3m)		Class B (dBµV/m) (at 3m)	
FREQUENCY (MHz)	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 $(dBuV/m) = 20 \log Emission level (uV/m)$.

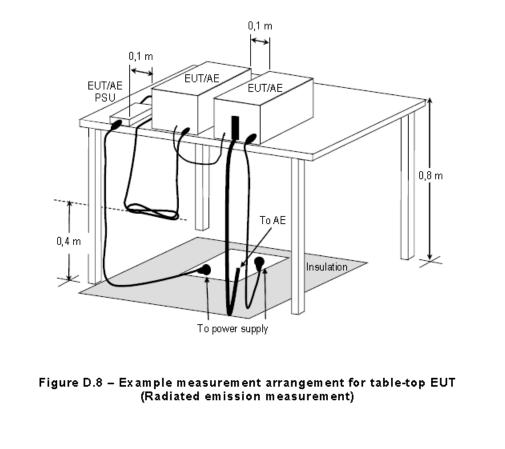
3. All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



5.2 Test Procedures

- 1. The EUT was placed on a rotatable table top 0.8 meter above ground.
- 2. The EUT was set 3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- 5. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

5.3 Typical Test Setup





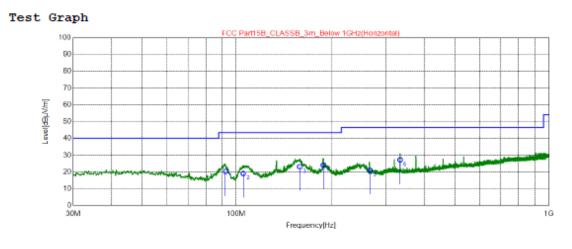
5.4 Measurement Equipment					
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL		
EMI Test Spectrum ROHDE & SCHWARZ	ESR7	E1R1005	Dec.02, 2020		
Spectrum Analyzer Keysight	N9030B	E1S1003	Jul.22, 2020		
Broad-Band Antenna Schwarzbeck	VULB9168	E1A1012	Aug.25, 2020		
Double Riaged Vroadband Horn Antenna Schwarzbeck	BBHA9120D	E1A1017	Jan.25, 2021		
Preamplifier Agilent	8447D	E1A2001	Oct.13, 2020		
Preamplifier Agilent	EMC051845SE	E1A2009	Jul.18, 2020		



5.5 Test Result and Data (30MHz ~ 1GHz)

Mode1: Wireless

Position: Horizontal



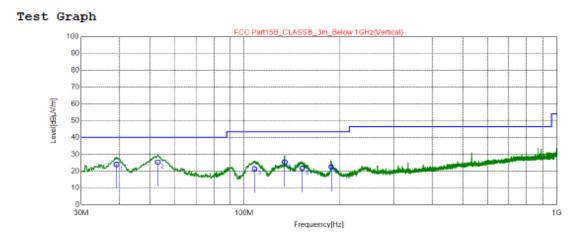
QP Detector

NO.	Freq.	QP Reading	Factor	QP Value	QP Limit	QP Margin	Height	Angle	Delevieu
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	92.46	34.48	-14.25	20.23	43.50	23.27	200	123	Horizontal
2	105.4	31.81	-12.71	19.10	43.50	24.40	200	288	Horizontal
3	159.9	32.09	-8.93	23.16	43.50	20.34	200	291	Horizontal
4	188.8	35.92	-11.88	24.04	43.50	19.46	100	65	Horizontal
5	266.4	31.06	-9.96	21.10	46.50	25.40	100	121	Horizontal
6	333.2	35.99	-8.85	27.14	46.50	19.36	100	74	Horizontal

- 1. Q.P. is abbreviation of quasi-peak individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. QP Margin value = QP Limit value QP value.
- 4. Factor = Antenna Factor + Amplifier Factor + Cable loss.
- 5. QP value = Factor + Reading Value.



Position: Vertical



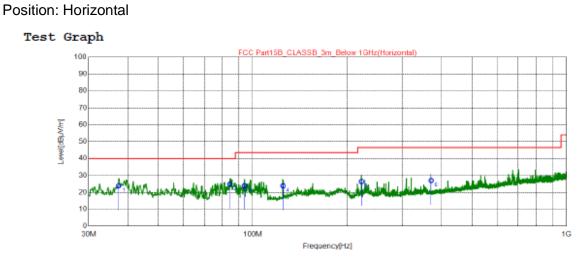
QP Detector

NO.	Freq.	QP Reading	Factor	QP Value	QP Limit	QP Margin	Height	Angle	Deleview
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	38.92	33.59	-9.59	24.00	40.00	16.00	100	106	Vertical
2	52.89	35.37	-9.95	25.42	40.00	14.58	100	1	Vertical
3	107.9	33.78	-12.36	21.42	43.50	22.08	100	25	Vertical
4	134.9	35.89	-10.46	25.43	43.50	18.07	100	200	Vertical
5	153.5	30.91	-9.17	21.74	43.50	21.76	100	1	Vertical
6	188.8	34.34	-11.88	22.46	43.50	21.04	100	147	Vertical

- 1. Q.P. is abbreviation of quasi-peak individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. QP Margin value = QP Limit value QP value
- 4. Factor = Antenna Factor + Amplifier Factor + Cable loss
- 5. QP value = Factor + Reading Value.



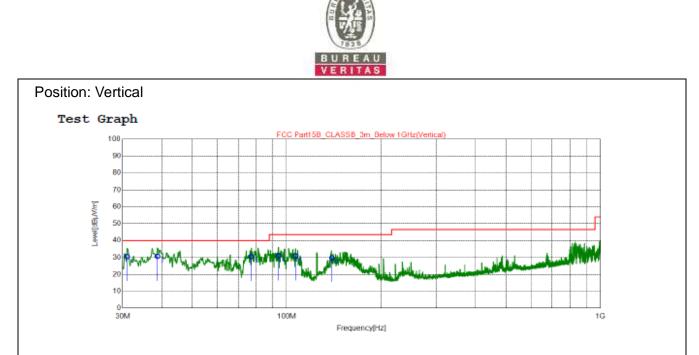
Mode 2: Lan



QP Detector

NO.	Freq.	QP Reading	Factor	QP Value	QP Limit	QP Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	POTATICY
1	37.37	33.72	-9.79	23.93	40.00	16.07	100	336	Horizontal
2	84.51	38.9	-14.10	24.80	40.00	15.20	200	171	Horizontal
3	94.21	38.04	-14.07	23.97	43.50	19.53	100	336	Horizontal
4	124.8	35.14	-11.24	23.90	43.50	19.60	200	189	Horizontal
5	222.0	37.89	-11.40	26.49	46.50	20.01	200	148	Horizontal
6	370.2	35.16	-8.14	27.02	46.50	19.48	100	89	Horizontal

- 1. Q.P. is abbreviation of quasi-peak individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. QP Margin value = QP Limit value QP value.
- 4. Factor = Antenna Factor + Amplifier Factor + Cable loss.
- 5. QP value = Factor + Reading Value.



o QP Detector

NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.97	41.08	-10.59	30.49	40.00	9.51	100	197	Vertical
2	38.73	40.25	-9.62	30.63	40.00	9.37	100	202	Vertical
3	77.14	43.85	-13.28	30.57	40.00	9.43	100	14	Vertical
4	94.21	45.07	-14.07	31.00	43.50	12.50	100	114	Vertical
5	106.6	43.49	-12.55	30.94	43.50	12.56	100	82	Vertical
6	139.2	40.11	-10.22	29.89	43.50	13.61	100	207	Vertical

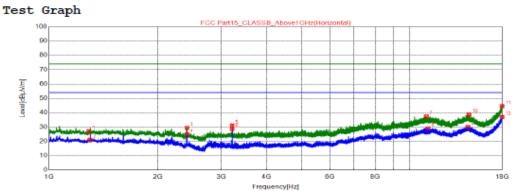
- 1. Q.P. is abbreviation of quasi-peak individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. QP Margin value = QP Limit value QP value
- 4. Factor = Antenna Factor + Amplifier Factor + Cable loss
- 5. QP value = Factor + Reading Value.



5.6 Test Result and Data (1GHz ~ 18GHz)

Mode 1:Wireless

Position: Horizontal



* AV Detector

	Freq.	Reading	Level	Limit	Margin	Height	Angle		-
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	Detector
1	1288.1500	45.59	27.02	74.00	46.98	100	185	Horizontal	PK
2	1297.5000	39.50	20.96	54.00	33.04	100	147	Horizontal	AV
3	2410.1500	45.25	29.33	74.00	44.67	100	340	Horizontal	PK
4	2411.0000	40.90	24.98	54.00	29.02	100	340	Horizontal	AV
5	3215.9500	44.77	31.06	74.00	42.94	100	107	Horizontal	PK
6	3216.8000	42.22	28.51	54.00	25.49	100	107	Horizontal	AV
7	11090.3500	35.93	37.45	74.00	36.55	100	301	Horizontal	PK
8	11222.9500	27.38	29.04	54.00	24.96	100	224	Horizontal	AV
9	14450.4000	26.31	30.05	54.00	23.95	100	107	Horizontal	AV
10	14537.1000	34.98	38.72	74.00	35.28	100	147	Horizontal	PK
11	17971.9500	32.76	44.47	74.00	29.53	100	224	Horizontal	PK
12	17972.8000	25.23	36.95	54.00	17.05	100	262	Horizontal	AV

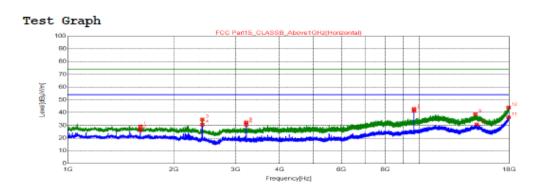
- 1. The emission levels of other frequencies were very low against the limit.
- 2. Margin = Limit –Level

				BUR VERI					
ositi	on: Vertical								
T	est Graph								
	100		FCC Pr	et15_CLASSB_Abov	e1GHz(Vertical)				
	80								
	70								
	LUX/187								
	· · · · · · · · · · · · · · · · · · ·	*	1						
	30 20								
	10								
	0L 1G	20	30	4G Frequency(H	6G	8G		18G	
					-				
	 AV Dete 	sctor							
	Freq.	Reading	Level	Limit	Margin	Height	Angle		
NO.							[°]	Polarity	Detector
	[MHz]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]			
						1			
1	1066.3000	55.01	35.74	74.00	38.26	100	59	Vertical	PK
1 2	1066.3000 1067.1500	55.01 47.58	35.74 28.31	74.00 54.00	38.26 25.69	100 100	59 290	Vertical Vertical	PK AV
-									
2	1067.1500	47.58	28.31	54.00	25.69	100	290	Vertical	AV
2	1067.1500 1607.7500	47.58 54.24	28.31 36.60	54.00 74.00	25.69 37.40	100 100	290 136	Vertical Vertical	AV
2 3 4	1067.1500 1607.7500 1608.6000	47.58 54.24 52.64	28.31 36.60 35.00	54.00 74.00 54.00	25.69 37.40 19.00	100 100 100	290 136 98	Vertical Vertical Vertical	AV PK AV
2 3 4 5	1067.1500 1607.7500 1608.6000 2280.1000	47.58 54.24 52.64 52.68	28.31 36.60 35.00 36.48	54.00 74.00 54.00 74.00	25.69 37.40 19.00 37.52	100 100 100 100	290 136 98 252	Vertical Vertical Vertical Vertical	AV PK AV PK
2 3 4 5 6	1067.1500 1607.7500 1608.6000 2280.1000 2284.3500	47.58 54.24 52.64 52.68 47.89	28.31 36.60 35.00 36.48 31.70	54.00 74.00 54.00 74.00 54.00	25.69 37.40 19.00 37.52 22.30	100 100 100 100 100	290 136 98 252 252	Vertical Vertical Vertical Vertical Vertical	AV PK AV PK AV
2 3 4 5 6 7	1067.1500 1607.7500 1608.6000 2280.1000 2284.3500 10915.2500	47.58 54.24 52.64 52.68 47.89 37.43	28.31 36.60 35.00 36.48 31.70 38.61	54.00 74.00 54.00 74.00 54.00 74.00	25.69 37.40 19.00 37.52 22.30 35.39	100 100 100 100 100 100	290 136 98 252 252 175	Vertical Vertical Vertical Vertical Vertical	AV PK AV PK AV PK
2 3 4 5 6 7 8	1067.1500 1607.7500 1608.6000 2280.1000 2284.3500 10915.2500 11090.3500	47.58 54.24 52.64 52.68 47.89 37.43 28.47	28.31 36.60 35.00 36.48 31.70 38.61 29.99	54.00 74.00 54.00 74.00 54.00 74.00 54.00	25.69 37.40 19.00 37.52 22.30 35.39 24.01	100 100 100 100 100 100 100	290 136 98 252 252 175 213	Vertical Vertical Vertical Vertical Vertical Vertical	AV PK AV PK AV PK AV
2 3 4 5 6 7 8 9	1067.1500 1607.7500 2280.1000 2284.3500 10915.2500 11090.3500 14413.0000	47.58 54.24 52.64 52.68 47.89 37.43 28.47 34.63	28.31 36.60 35.00 36.48 31.70 38.61 29.99 38.30	54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00	25.69 37.40 19.00 37.52 22.30 35.39 24.01 35.70	100 100 100 100 100 100 100 100	290 136 98 252 252 175 213 252	Vertical Vertical Vertical Vertical Vertical Vertical Vertical	AV PK AV PK AV PK AV PK

- 1. The emission levels of other frequencies were very low against the limit.
- 2. Margin = Limit –Level



Mode 2: Lan Position: Horizontal



AV Detector

	Freq.	Reading	Level	Limit	Margin	Height	Angle		
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	Detector
1	1607.7500	46.65	29.01	74.00	44.99	100	15	Horizontal	PK
2	1608.6000	44.12	26.48	54.00	27.52	100	61	Horizontal	AV
3	2413.5500	50.46	34.54	74.00	39.46	100	199	Horizontal	PK
4	2414.4000	46.50	30.59	54.00	23.41	100	244	Horizontal	AV
5	3215.9500	46.15	32.44	74.00	41.56	100	199	Horizontal	PK
6	3216.8000	44.33	30.62	54.00	23.38	100	199	Horizontal	AV
7	9647.9000	44.56	42.90	74.00	31.10	100	15	Horizontal	PK
8	9648.7500	42.93	41.28	54.00	12.72	100	15	Horizontal	AV
9	14432.5500	34.99	38.70	74.00	35.30	100	15	Horizontal	PK
10	14553.2500	26.92	30.62	54.00	23.38	100	15	Horizontal	AV
11	17911.6000	24.94	36.13	54.00	17.87	100	107	Horizontal	AV
12	17913.3000	32.78	43.98	74.00	30.02	100	61	Horizontal	PK

- 1. The emission levels of other frequencies were very low against the limit.
- 2. Margin = Limit –Level

T	Est Graph		FCC Part1	5 CLASSB Above10	GHz(Vertical)				
1	100 90 80 70		FCC Part1	5 CLASSB Above10	3Hz(Vertical)				
	80								
	70								
	EUVIER 60			1 1					
	9 40								
	9 40							······································	
	30 10 444 10 444	and a strength of the							
	20	and and the second second	V.						
	19	26	36	4G	6G	8G		18G	
				Frequency[Hz]	~				
	 AV Detect 	tor							
	-								1
NO.	Freq.	Reading	Level	Limit	Margin	Height	Angle	Polarity	Detector
1.0.	[MHz]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	roidilog	DC0C0001
	-			1					
1	1607.7500	53.55	35.91	74.00	38.09	100	31	Vertical	PK
2	1608.6000	51.41	33.77	54.00	20.23	100	31	Vertical	AV
		46.22	29.95	54.00	24.05	100	91	Vertical	AV
3	2242.7000				00.00	100	152	Vertical	PK
3	2242.7000 2253.7500	51.65	35.40	74.00	38.60	100			
-			35.40 39.63	74.00 74.00	38.60	100	91	Vertical	PK
4	2253.7500	51.65						Vertical Vertical	PK AV
4 5	2253.7500 2409.3000	51.65 55.55	39.63	74.00	34.37	100	91		
4 5 6	2253.7500 2409.3000 2410.1500	51.65 55.55 52.83	39.63 36.91	74.00 54.00	34.37 17.09	100 100	91 31	Vertical	AV
4 5 6 7	2253.7500 2409.3000 2410.1500 11202.5500	51.65 55.55 52.83 28.23	39.63 36.91 29.89	74.00 54.00 54.00	34.37 17.09 24.11	100 100 100	91 31 91	Vertical Vertical	AV AV
4 5 6 7 8	2253.7500 2409.3000 2410.1500 11202.5500 11325.8000	51.65 55.55 52.83 28.23 35.78	39.63 36.91 29.89 37.45	74.00 54.00 54.00 74.00	34.37 17.09 24.11 36.55	100 100 100 100	91 31 91 211	Vertical Vertical Vertical	AV AV PK
4 5 6 7 8 9	2253.7500 2409.3000 2410.1500 11202.5500 11325.8000 14482.7000	51.65 55.55 52.83 28.23 35.78 34.52	39.63 36.91 29.89 37.45 38.31	74.00 54.00 54.00 74.00 74.00	34.37 17.09 24.11 36.55 35.69	100 100 100 100 100	91 31 91 211 152	Vertical Vertical Vertical Vertical	AV AV PK PK

- 1. The emission levels of other frequencies were very low against the limit.
- 2. Margin = Limit –Level



5.7 Test Photographs (30MHz ~ 1000MHz)

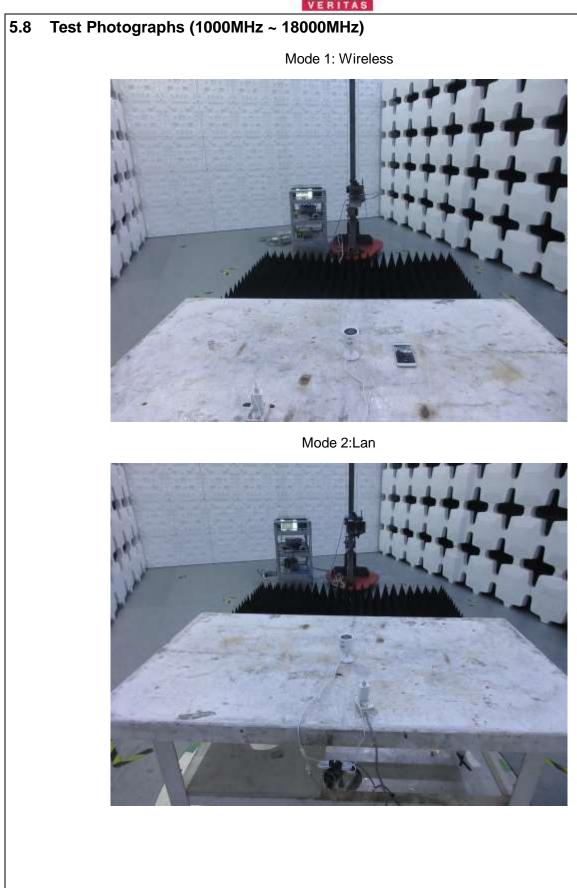
Mode 1:Wireless



Mode 2:Lan













Model: KA25-0501000US

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