

RADIO TEST REPORT FCC ID: 2ABYN038

Product:	Bi-color LED Video Light, LED Light		
Trade Mark:	Godox		
Model No.:	ML30Bi		
Family Model:	ML30		
Report No.:	S21072000911001		
Issue Date:	Sept 09. 2021		

Prepared for

GODOX PHOTO EQUIPMENT CO.LTD

1st to 4th Floor, Building 2/1st to 4th Floor, Building 4 ,Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, 518103 China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website:http://www.ntek.org.cn





TABLE OF CONTENTS

ACCREDITED

Certificate #4298.01

	EST RESULT CERTIFICATION	
2 SU	UMMARY OF TEST RESULTS	4
3 FA	ACILITIES AND ACCREDITATIONS	5
3.1 3.2 3.3	FACILITIES LABORATORY ACCREDITATIONS AND LISTINGS MEASUREMENT UNCERTAINTY	5
4 G	ENERAL DESCRIPTION OF EUT	6
5 D	ESCRIPTION OF TEST MODES	8
6 SH	ETUP OF EQUIPMENT UNDER TEST	9
6.1 6.2 6.3	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM SUPPORT EQUIPMENT EQUIPMENTS LIST FOR ALL TEST ITEMS	
7 TI	EST REQUIREMENTS	
7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9	CONDUCTED EMISSIONS TEST RADIATED SPURIOUS EMISSION 6DB BANDWIDTH. DUTY CYCLE. PEAK OUTPUT POWER POWER SPECTRAL DENSITY CONDUCTED BAND EDGE MEASUREMENT. SPURIOUS RF CONDUCTED EMISSIONS ANTENNA APPLICATION	16 25 26 28 29 31 32
8 TI	EST RESULTS	
8.1 8.2 8.3 8.4 8.5	MAXIMUM CONDUCTED OUTPUT POWER Occupied Channel Bandwidth Maximum Power Spectral Density Level Band Edge Conducted RF Spurious Emission	



Complied

1 TEST RESULT CERTIFICATION

ODOX PHOTO EQUIPMENT CO.LTD			
1st to 4th Floor, Building 2/1st to 4th Floor, Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, 518103 China			
GODOX Photo Equipment Co.,Ltd.			
4th Floor of Building 1, 1st to 4 th Floor of Building 2, 4th Floor of Building 3,1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103, China			
-color LED Video Light,LED Light			
L30Bi			
L30			

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE TEST RESULT

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

Date of Test	May 15. 2021 ~ Jul 16. 2021	
Testing Engineer	(Mukzi Lee)	
Authorized Signatory	(Alex Li)	

Version.1.3



FCC Part15 (15.247), Subpart C				
Standard Section	Test Item	Verdict	Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)	Peak Output Power	PASS		
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS		
15.247 (e)	Power Spectral Density	PASS		
15.247 (d)	Band Edge Emission	PASS		
15.247 (d)	Spurious RF Conducted Emission	PASS		
15.203	Antenna Requirement	PASS		

Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description		
CNAS-Lab.	: The Certificate Registration Number is L5516.	
IC-Registration	The Certificate Registration Number is 9270A.	
	CAB identifier:CN0074	
FCC- Accredited	Test Firm Registration Number: 463705.	
	Designation Number: CN1184	
A2LA-Lab.	The Certificate Registration Number is 4298.01	
Name of Firm Site Location	 Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China. 	

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification					
Equipment	Bi-color LED Video Light,LED Light				
Trade Mark	Godox				
FCC ID	2ABYN038				
Model No.	ML30Bi				
Family Model	ML30				
Model Difference	All the model are the same circuit and RF module, except the ML30Bi is dual color temperature, ML30 is single color temperature				
Operating Frequency	2402MHz~2480MHz				
Modulation	GFSK				
Number of Channels	40 Channels				
Antenna Type	PCB Antenna				
Antenna Gain	0.54dBi				
Power supply	AC100-240V, 50/60Hz				
HW Version	20210621W02				
SW Version	V1.0				

AC

Certificate #4298.01

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.



Report No.: S21072000911001

Revision History					
Report No.	Version	Description	Issued Date		
S21072000911001	Rev.01	Initial issue of report	Sept 09. 2021		

ACCREDITED

Certificate #4298.01



5 DESCRIPTION OF TEST MODES

NTEK 北测

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2404
19	2440
20	2442
38	2478
39	2480

Note: fc=2402MHz+kx2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases				
Test Item	Data Rate/ Modulation			
	GFSK			
AC Conducted Emission	Mode 1: Tx Ch19_2440MHz_1Mbps			
	Mode 1: Tx Ch19_2440MHz_1Mbps			
Radiated Test	Mode 2: Tx Ch00_2402MHz_1Mbps			
Cases	Mode 3: Tx Ch19_2440MHz_1Mbps			
	Mode 4: Tx Ch39_2480MHz_1Mbps			
Conducted Test	Mode 2: Tx Ch00_2402MHz_1Mbps			
Conducted Test Cases	Mode 3: Tx Ch19_2440MHz_1Mbps			
Cases	Mode 4: Tx Ch39_2480MHz_1Mbps			

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode. (duty cycle =100% during the test)

2. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.



6 SETUP OF EQUIPMENT UNDER TEST	
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	
For AC Conducted Emission Test Cases	
AC PLUG	
EUT	
For Radiated Test Cases	
AC PLUG	
For Conducted Test Cases	
C-2	
Measurement EUT	
Note: The temporary antenna connector is soldered on the PCB board in order	r to perform conducted
tests and this temporary antenna connector is listed in the equipment list.	



6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power cable	NO	NO	1.0m
C-2	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

uululle	na conducted i	est equipment	-				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.11.20	2021.11.19	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2021.07.01	2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.11.20	2021.11.19	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2021.07.01	2022.06.30	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2020.05.11	2023.05.10	1 year
16	Filter	TRILTHIC	2400MHz	29	2020.04.07	2023.04.06	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



Report No.: S21072000911001

AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2021.04.27	2022.04.26	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

	Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

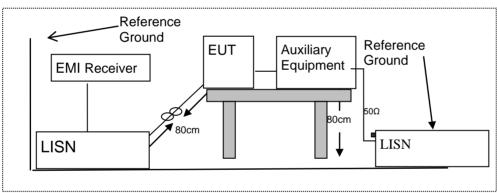
Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
 - 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.

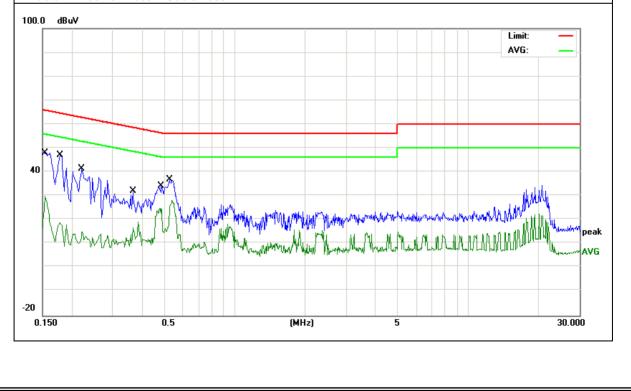


7.1.6 Test Results

EUT: Bi-color LED Video Light,LED Light		Model Name	e : ML30Bi				
Temperature:	24.5 ℃		Relative Hum	nidity:	59%		
Pressure:	1010hPa		Phase :		L		
Test Voltage :	AC 120V	/60Hz	Test Mode:		Mode 1		
Frequency	Reading Level	Correct I Factor	Measure-men t	Limi	ts	Margin	Remar
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµ	V)	(dB)	k
0.1539	38.27	9.72	47.99	65.7	'8	-17.79	QP
0.1539	20.09	9.72	29.81	55.7	'8	-25.97	AVG
0.1780	37.39	9.67	47.06	64.5	57	-17.51	QP
0.1780	9.18	9.67	18.85	54.5	57	-35.72	AVG
0.2220	31.87	9.63	41.50	62.7	' 4	-21.24	QP
0.2220	5.29	9.63	14.92	52.7	' 4	-37.82	AVG
0.3660	22.30	9.64	31.94	58.5	59	-26.65	QP
0.3660	9.38	9.64	19.02	48.5	59	-29.57	AVG
0.4860	24.63	9.64	34.27	56.2	24	-21.97	QP
0.4860	15.19	9.64	24.83	46.2	24	-21.41	AVG
0.5260	27.20	9.65	36.85	56.0	00	-19.15	QP
0.5260	18.39	9.65	28.04	46.0	00	-17.96	AVG

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



Version.1.3



Report No.: S21072000911001

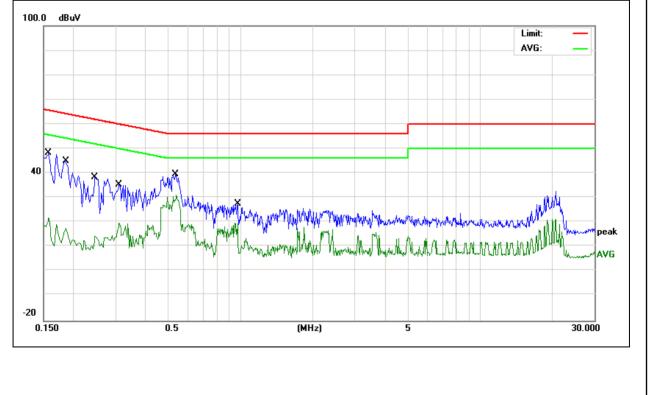
EUT:	Bi-color LED Video	Model Name :	ML30Bi
Temperature:	24.5 ℃	Relative Humidity:	59%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	38.54	9.63	48.17	65.56	-17.39	QP
0.1580	12.31	9.63	21.94	55.56	-33.62	AVG
0.1860	35.31	9.63	44.94	64.21	-19.27	QP
0.1860	7.88	9.63	17.51	54.21	-36.70	AVG
0.2460	28.74	9.65	38.39	61.89	-23.50	QP
0.2460	4.83	9.65	14.48	51.89	-37.41	AVG
0.3100	25.66	9.67	35.33	59.97	-24.64	QP
0.3100	10.20	9.67	19.87	49.97	-30.10	AVG
0.5340	29.68	9.72	39.40	56.00	-16.60	QP
0.5340	21.57	9.72	31.29	46.00	-14.71	AVG
0.9700	17.67	9.74	27.41	56.00	-28.59	QP
0.9700	9.86	9.74	19.60	46.00	-26.40	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.



Version.1.3



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

According to FOC Part 15.205, Restricted bands			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.



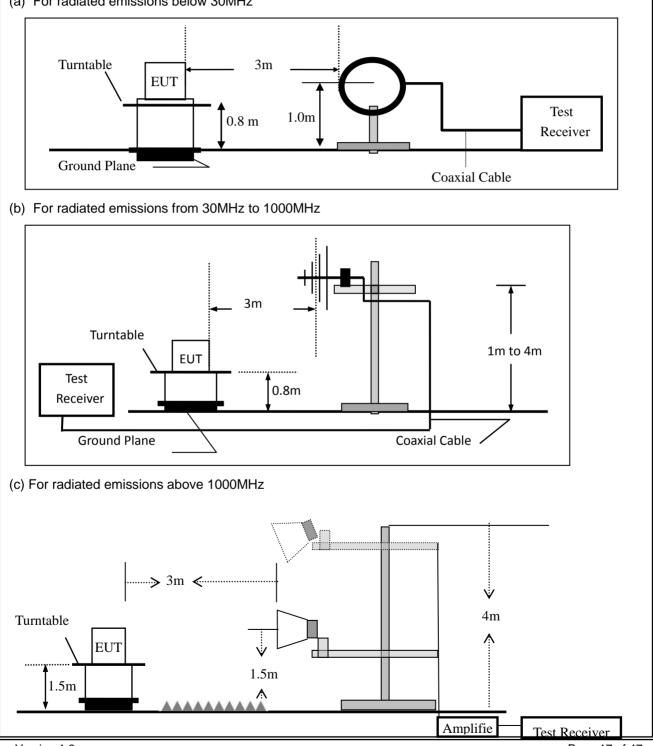
7.2.3 Measuring Instruments

N

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting			
Attenuation	Auto			
Start Frequency	1000 MHz			
Stop Frequency	10th carrier harmonic			
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average			

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



During the radiated emission test, the Spectrum Analyzer was set with the following configurations:									
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth						
30 to 1000	30 to 1000 QP		300 kHz						
Above 1000	Peak		1 MHz						
Above 1000	Average	1 MHz	1 MHz						

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

|--|

EUT:	Bi-color LED Video Light,LED Light	Model No.:	ML30Bi
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Over(dB)		
(MHz)	H/V	PK ÀV Í		PK	AV	PK	AV	

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



Spurious Emission below 1GHz (30MHz to 1GHz)

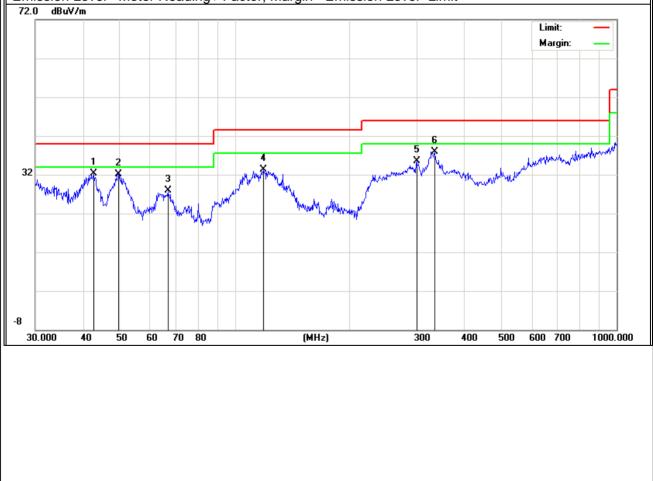
All the modulation	modes have been t	tested, and the worst	result was report as	below:

	Bi-color LED Video Light,LED Light	Model Name :	ML30Bi
Temperature:	25.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	AC 120V/60Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	. comaint	
V	42.6000	14.74	17.57	32.31	40.00	-7.69	QP	
V	49.5328	17.29	14.90	32.19	40.00	-7.81	QP	
V	66.7325	15.68	12.18	27.86	40.00	-12.14	QP	
V	118.6012	15.19	18.10	33.29	43.50	-10.21	QP	
V	299.3158	14.34	21.16	35.50	46.00	-10.50	QP	
V	333.6865	15.79	22.20	37.99	46.00	-8.01	QP	

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit





Report No.: S21072000911001

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remar
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Reman
Н	31.0703	7.45	24.11	31.56	40.00	-8.44	QP
H	41.4215	9.07	18.20	27.27	40.00	-12.73	QP
H	104.5361	13.02	17.11	30.13	43.50	-13.37	QP
Н	317.7010	13.98	21.59	35.57	46.00	-10.43	QP
Н	369.4045	12.18	22.95	35.13	46.00	-10.87	QP
H Remark	691.9867	7.96	29.58	37.54	46.00	-8.46	QP
	n Level= Meter F uv/m		or, margin=			Limit: Margin:	
32	The second se	million and a start of the star	Hundler of a stread of the	Whether whether and the	4 5 X X	annut un abran tour	
8							



Spurious											
EUT:	UT: Bi-color LED Video Model No.:					ML30Bi					
Temperature		20 ℃	Ŭ		Relative Humidity: 48%				8%		
Test Mode:		Mode2/M	lode3/Mode	4	Tes	st By:		Alle	en Liu		
Frequency	Read Leve		e Antenna Factor	Prea Fac		Emission Level	Limit	s	Margin	Remark	Comment
(MHz)	(dBµ∖	/) (dB)	dB/m	(dE	3)	(dBµV/m)	(dBµV/	/m)	(dB)		
			Low Ch	nannel	(240	2 MHz)(GFS	K)Abo	ve 1	G		
4804	70.36	5.21	35.59	44.3	30	66.86	74.00	0	-7.14	Pk	Vertical
4804	48.79	9 5.21	35.59	44.:	30	45.29	54.00	0	-8.71	AV	Vertical
7206	68.6	5 6.48	36.27	44.6	50	66.80	74.00	0	-7.20	Pk	Vertical
7206	50.85	5 6.48	36.27	44.6	50	49.00	54.00	0	-5.00	AV	Vertical
4804	68.5	5 5.21	35.55	44.:	30	65.01	74.00	0	-8.99	Pk	Horizontal
4804	49.2	5 5.21	35.55	44.3	30	45.71	54.00	0	-8.29	AV	Horizontal
7206	70.73	3 6.48	36.27	44.	52	68.96	74.00	0	-5.04	Pk	Horizontal
7206	46.1	5 6.48	36.27	44.	52	44.38	54.00	0	-9.62	AV	Horizontal
			Mid Ch	annel	244	0 MHz)(GFS	K)Abov	ve 1	G		
4880	70.26	5.21	35.66	44.2	20	66.93	74.0	0	-7.07	Pk	Vertical
4880	45.22	2 5.21	35.66	44.2	20	41.89	54.00	0	-12.11	AV	Vertical
7320	70.36	5 7.10	36.50	44.4	43	69.53	74.0	0	-4.47	Pk	Vertical
7320	48.67	7 7.10	36.50	44.4	13	47.84	54.00	0	-6.16	AV	Vertical
4880	69.02	2 5.21	35.66	44.2	20	65.69	74.00	0	-8.31	Pk	Horizontal
4880	45.09	9 5.21	35.66	44.2	20	41.76	54.00	0	-12.24	AV	Horizontal
7320	70.39	9 7.10	36.50	44.4	43	69.56	74.00	0	-4.44	Pk	Horizontal
7320	45.19	9 7.10	36.50	44.4	43	44.36	54.00	0	-9.64	AV	Horizontal
			High Ch	annel	(248	0 MHz)(GFS	K) Abc	ove 1	IG		
4960	69.2 ⁻	1 5.21	35.52	44.2	21	65.73	74.0	0	-8.27	Pk	Vertical
4960	46.98	5 5.21	35.52	44.2	21	43.47	54.00	0	-10.53	AV	Vertical
7440	68.05	5 7.10	36.53	44.6	50	67.08	74.0	0	-6.92	Pk	Vertical
7440	48.54	4 7.10	36.53	44.6	50	47.57	54.00	0	-6.43	AV	Vertical
4960	68.2 ⁻	1 5.21	35.52	44.2	21	64.73	74.00	0	-9.27	Pk	Horizontal
4960	46.79	9 5.21	35.52	44.2	21	43.31	54.00	0	-10.69	AV	Horizontal
7440	70.13	3 7.10	36.53	44.6	50	69.16	74.00	0	-4.84	Pk	Horizontal
7440	49.63	3 7.10	36.53	44.6	50	48.66	54.00	0	-5.34	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz								
EUT:	Bi-color LED Video Light, LED Light	Model No.:	ML30Bi					
Temperature:	20 ℃	Relative Humidity:	48%					
Test Mode:	Mode2/ Mode4	Test By:	Allen Liu					

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
1Mbps(GFSK)									
2310.00	68.16	2.97	27.80	43.80	55.13	74	-18.87	Pk	Horizontal
2310.00	46.02	2.97	27.80	43.80	32.99	54	-21.01	AV	Horizontal
2310.00	69.08	2.97	27.80	43.80	56.05	74	-17.95	Pk	Vertical
2310.00	46.34	2.97	27.80	43.80	33.31	54	-20.69	AV	Vertical
2390.00	69.41	3.14	27.21	43.80	55.96	74	-18.04	Pk	Vertical
2390.00	49.22	3.14	27.21	43.80	35.77	54	-18.23	AV	Vertical
2390.00	68.65	3.14	27.21	43.80	55.20	74	-18.80	Pk	Horizontal
2390.00	47.38	3.14	27.21	43.80	33.93	54	-20.07	AV	Horizontal
2483.50	69.23	3.58	27.70	44.00	56.51	74	-17.49	Pk	Vertical
2483.50	50.09	3.58	27.70	44.00	37.37	54	-16.63	AV	Vertical
2483.50	68.36	3.58	27.70	44.00	55.64	74	-18.36	Pk	Horizontal
2483.50	46.22	3.58	27.70	44.00	33.50	54	-20.50	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



.	Spurious E				1	0MHz	-18000MHz	z				
EUT	:	Bi-colo Light,L	r Ll ED Ligh		deo	Mode	l No.:		ML30	Bi		
Tem	perature:	20 ℃				Relat	ive Humidit	y:	48%			
Test	Mode:	Mode2	/ Mode4	ŀ		Test I	By:		Allen	Liu		
F	requency	Reading Level	Cable Loss	Antenna Factor		eamp Ictor	Emission Level	Lir	nits	Margin	Detector	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(0	dB)	(dBµV/m)	(dBµ	ıV/m)	(dB)	Туре	
	3260	68.42	4.04	29.57	44	1.70	57.33	7	' 4	-16.67	Pk	Vertical
	3260	47.86	4.04	29.57	44	1.70	36.77	5	54	-17.23	AV	Vertical
	3260	68.77	4.04	29.57	44	1.70	57.68	7	' 4	-16.32	Pk	Horizontal
	3260	45.07	4.04	29.57	44	1.70	33.98	5	54	-20.02	AV	Horizontal
	3332	69.12	4.26	29.87	44	1.40	58.85	7	' 4	-15.15	Pk	Vertical
	3332	50.75	4.26	29.87	44	1.40	40.48	5	54	-13.52	AV	Vertical
	3332	69.37	4.26	29.87	44	1.40	59.10	7	' 4	-14.90	Pk	Horizontal
	3332	46.77	4.26	29.87	44	1.40	36.50	5	54	-17.50	AV	Horizontal
	17797	50.71	10.99	43.95	43	3.50	62.15	7	' 4	-11.85	Pk	Vertical
	17797	39.2	10.99	43.95	43	3.50	50.64	5	54	-3.36	AV	Vertical
	17788	49.49	11.81	43.69	44	1.60	60.39	7	' 4	-13.61	Pk	Horizontal
	17788	31.12	11.81	43.69	44	1.60	42.02	5	54	-11.98	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit. (2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \ge 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

EUT:	Bi-color LED Video Light,LED Light	Model No.:	ML30Bi
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}



7.4.6 Test Results

	Bi-color LED Video Light,LED Light	Model No.:	ML30Bi
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

Note: Not Applicable



7.5 **PEAK OUTPUT POWER**

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

	Bi-color LED Video Light,LED Light	Model No.:	ML30Bi
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.6 **POWER SPECTRAL DENSITY**

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5*DTS bandwidth.

- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- \hat{g}) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



7.6.6 Test Results

EUT:	Bi-color LED Video Light,LED Light	Model No.:	ML30Bi
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Bi-color LED Video Light,LED Light	Model No.:	ML30Bi
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Allen Liu



7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.



7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.9.2 Result

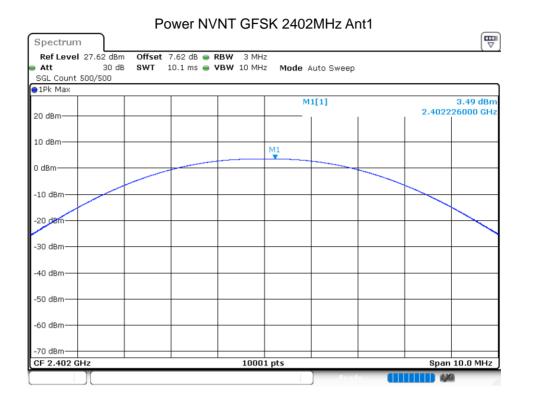
The EUT antenna is permanent attached PCB antenna (Gain: 0.54dBi). It comply with the standard requirement.



8 TEST RESULTS

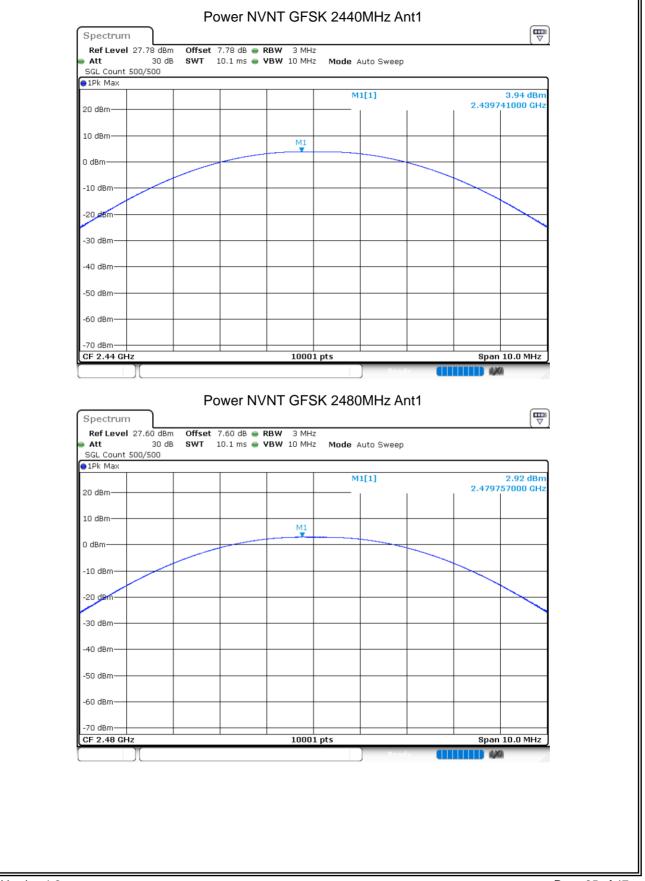
8.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2402	Ant 1	3.494	30	Pass
NVNT	GFSK	2440	Ant 1	3.944	30	Pass
NVNT	GFSK	2480	Ant 1	2.919	30	Pass





Report No.: S21072000911001



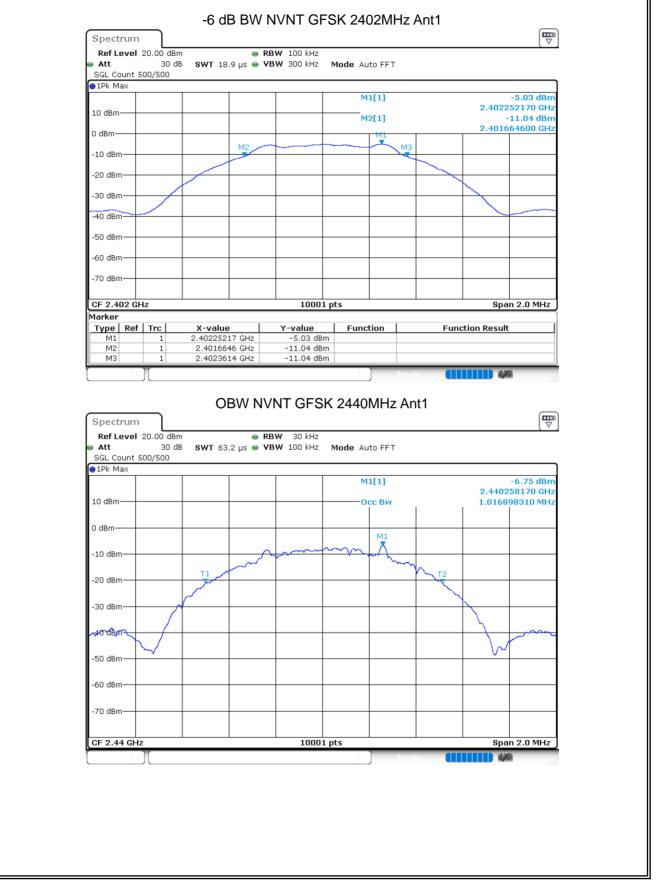
Version.1.3



Report No.: S21072000911001

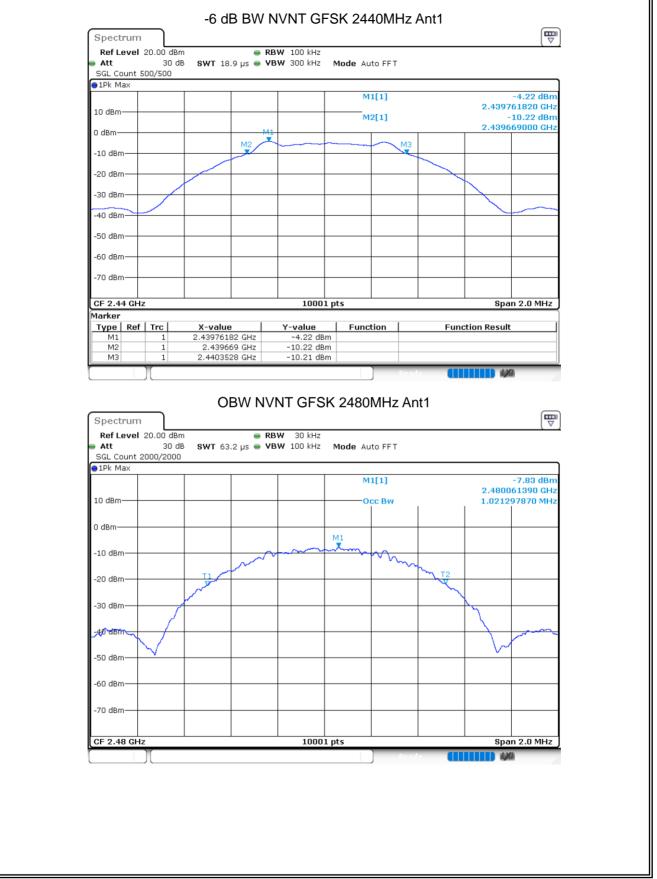
3.2 Occ	UPIED CH	ANNEL BANDWID	DTH				
		Frequency		99%	-6 dB	Limit -6 dB	
Condition	Mode	(MHz)	Antenna	OBW	Bandwidth	Bandwidth	Verdic
				(MHz)	(MHz)	(MHz)	
NVNT	GFSK	2402	Ant 1	1.0219	0.6968	0.5	Pass
NVNT	GFSK	2440	Ant 1	1.0169	0.6838	0.5	Pass
NVNT	GFSK	2480	Ant 1	1.0213	0.6712	0.5	Pass
	Spectrum Ref Leve Att SGL Coun 1Pk Max 10 dBm	m	e RBW	LOO KHZ Mode A		-6.65 dBm 2.402025000 GHz 1.021897810 MHz	





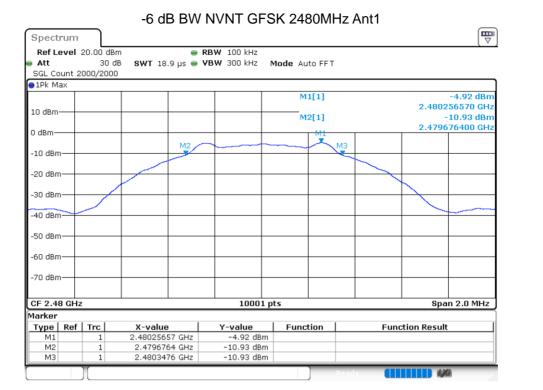
Version.1.3





Version.1.3

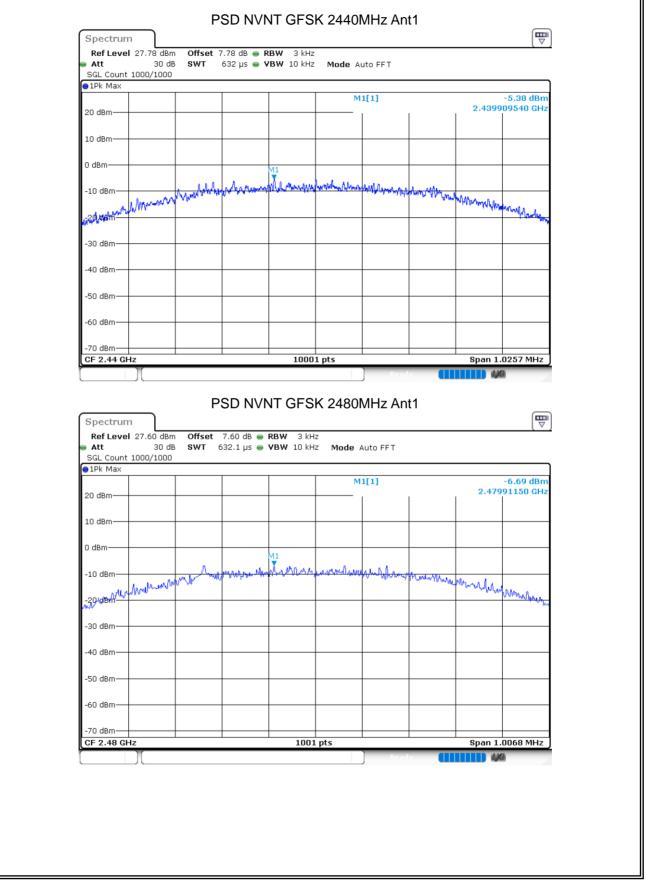




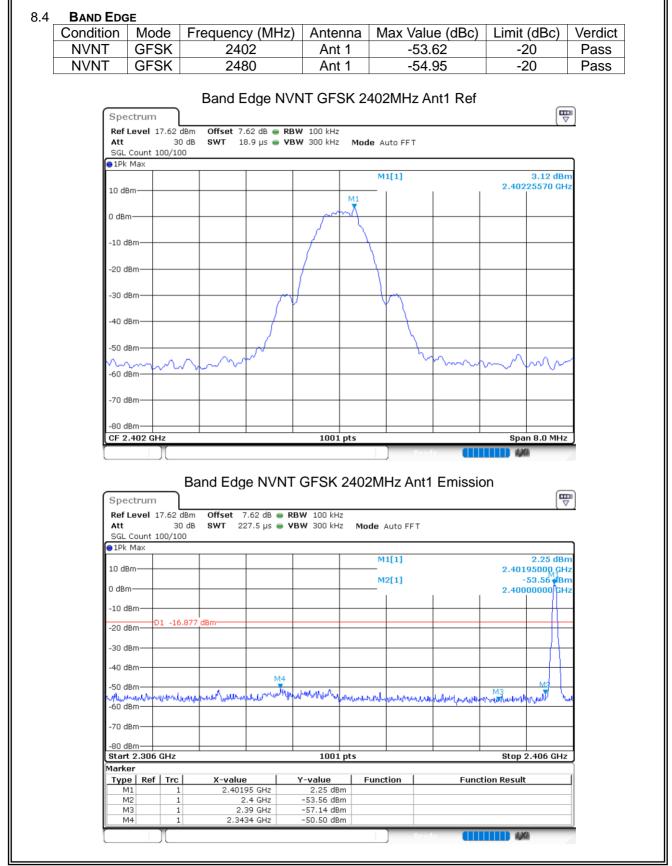


ondition	Mode		Antenna	Max F			mit /3kHz)	Verdio
NVNT	GFSK	(MHz) 2402	Ant 1	Ant 1 64				Pass
NVNT	GFSK		2402 Ant 1 -5.462 8 2440 Ant 1 -5.381 8			Pass		
NVNT	GFSK	2480	Ant 1	-6.6			<u>5</u> 8	Pass
	Att SGL Count 1Pk Max 20 dBm 10 dBm	n I 27.62 dBm Offset 7.62	2 dB • RBW 3 kH 9 μs • VBW 10 kH	Mode Auto FF	т ————————————————————————————————————	-5 2.402102		
	-30 dBm -40 dBm -50 dBm -60 dBm							
	-70 dBm-		1000)1 pts		Span 1.04	EO MUN	
	(CF 2.402 (1000	11 pts	Ready	3pan 1.04	32 MH2 J	

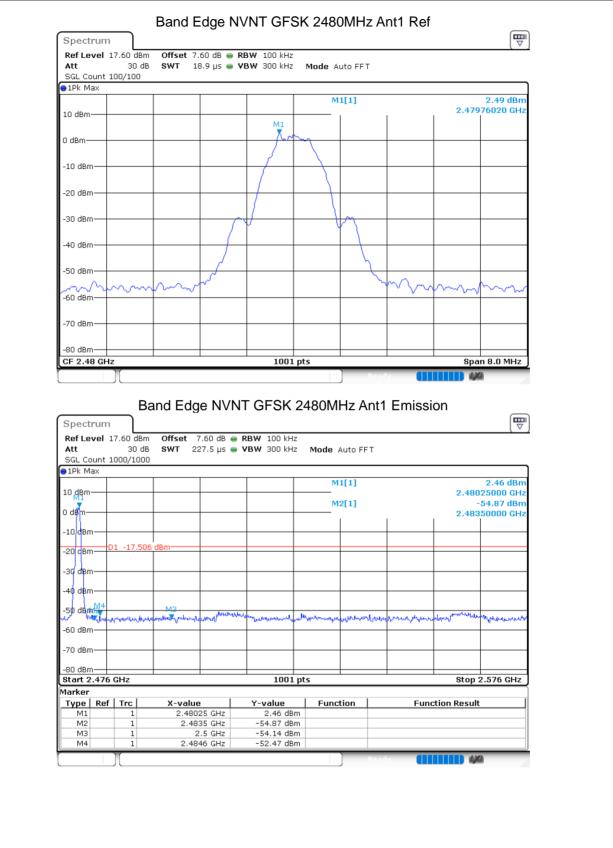






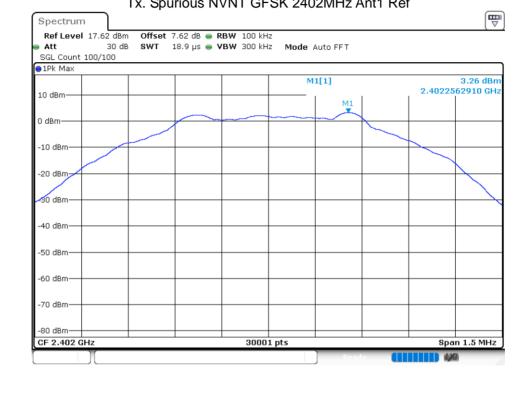




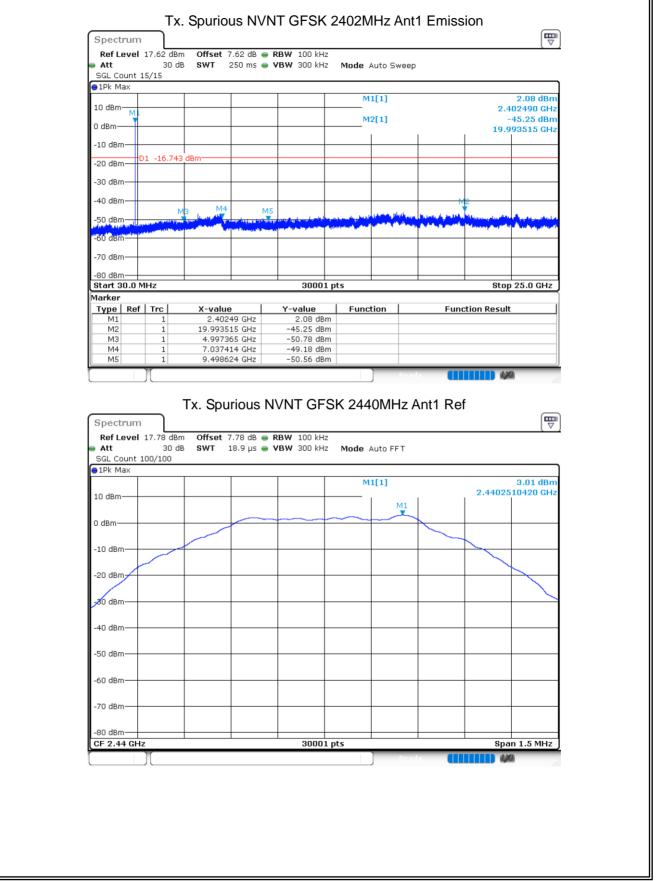




8.5 **CONDUCTED RF SPURIOUS EMISSION** Mode Frequency (MHz) Condition Antenna Max Value (dBc) Limit (dBc) Verdict NVNT GFSK 2402 Ant 1 -48.5 -20 Pass -20 **NVNT** GFSK 2440 -48.97 Pass Ant 1 NVNT GFSK 2480 Ant 1 -47.94 -20 Pass Tx. Spurious NVNT GFSK 2402MHz Ant1 Ref

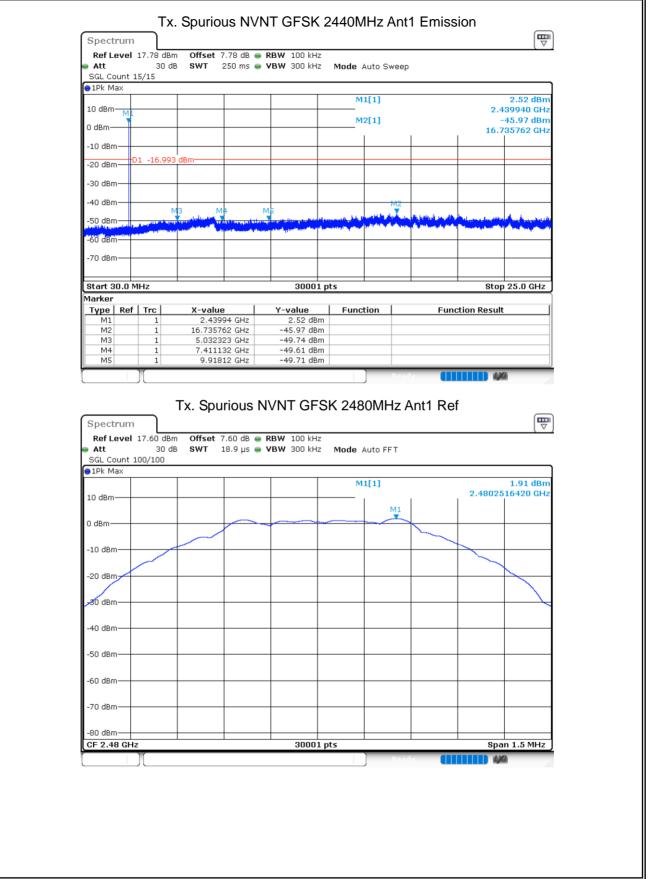






Version.1.3







Ref Level Att SGL Count :	3			 RBW 100 kHz VBW 300 kHz 	Mode /	uto Swee	эp		
1Pk Max					M	1[1]			2.37 dBm
0 dBm Mi								2.4	179890 GHz
1					M	2[1]			-46.04 dBm
dBm —								16.7	764894 GHz
0 dBm—	01 -18.	089 dBm							
0 dBm									
0 dBm									
o ubiii		МЗ М4		M5		17/2			
0 dBm	A		and the sustained	the state of the s	الدائدة والاردام ومراجع		الإلغال ومادحا وليما	Manual and a second star	A Company of the second se
	المادة مرب ورو	Connector Card Control of Connector Connector	and the second second	a provide la principal de la compañe de l	All and a state of the part of the	*****		Mangle endines	a hardenskerigeli
u asm									
0 dBm									
o abiii									
0 dBm									
art 30.0 M	MHz			30001	pts			Stop	25.0 GHz
arker									
「ype Ref	Trc	X-value		Y-value	Funct	ion	Fund	tion Result	t
M1	1		39 GHz	2.37 dBm					
M2	1	16.76489		-46.04 dBm					
MЗ	1	5.07976		-49.71 dBm					
M4 M5	1		09 GHz	-49.78 dBm					
	1	10.078	76 CH2	-50.17 dBm	1				

END OF REPORT