

Product



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: RGB Speaker BR30 Lamp

	-		
Trade mark	:	N/A	
Medel/Turne reference	:	LED+10DBR30M/SWRGBSPK	
Model/Type reference		LED+10DBR30M/DLRGBSPK	
Serial Number	:	N/A	
Report Number	:	EED32N81004302	
FCC ID	:	PUU-LEDX10DBR30M	
Date of Issue	:	Nov. 16, 2021	
Test Standards	:	47 CFR Part 15 Subpart C	
Test result	:	PASS	

Prepared for:

Savant Technologies LLC dba GE Lighting, a Savant company 1975 Noble Road Cleveland Ohio United States 44112

Prepared by: Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3668 FAX: +86-755-3368 3385 mark chen Reviewed by: Compiled by: MON Mark Chen RNATIO Aaron Ma David Wang Date: Nov. 16, 2021 proved David Wang Check No.:7954121021 **Report Seal** 





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### 2 Version

	Version No.	Date	Q	Description	)
	00	Nov. 16, 2021		Original	
-		100	10	(°))	
2	(6	57)	$(c^{(s)})$	(25)	(65)





## 3 Test Summary



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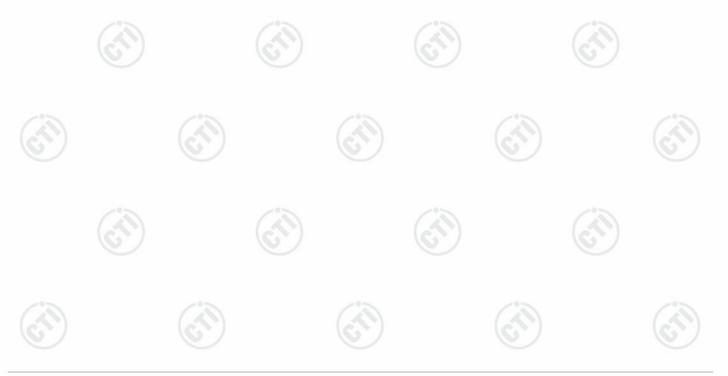
Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS

#### Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model/Type reference:LED+10DBR30M/SWRGBSPK,LED+10DBR30M/DLRGBSPK

Only the model LED+10DBR30M/SWRGBSPK was tested, the difference between each model is only for the model name is different, the color temperature is different, the rest circuit principle, the internal structure, the PCB Layout and the safety key parts are the same, does not affect the EMC and RF test.





# 4 General Information

# 4.1 Client Information

Applicant:	Savant Technologies LLC dba GE Lighting, a Savant company
Address of Applicant:	1975 Noble Road Cleveland Ohio United States 44112
Manufacturer:	Savant Technologies LLC dba GE Lighting, a Savant company
Address of Manufacturer:	1975 Noble Road Cleveland Ohio United States 44112
Factory:	Shenzhen H&T Intelligent Control Co., Ltd.
Address of Factory:	H&T Industrial Park, Tian Liao Community,Guangming New District,Shenzhen,Guangdong ,China. P.R.C 518106

# 4.2 General Description of EUT

· · · · · · · · · · · · · · · · · · ·				
Product Name:	RGB Speaker BR30 Lamp		U	
Model No.(EUT):	LED+10DBR30M/SWRGBSPK			
Trade mark:	N/A	(°>>		0
EUT Supports Radios application:	5731MHz to 5795MHz	$(\mathcal{C})$		6
Power Supply:	120V 60Hz 200mA			
Test Voltage:	120V 60Hz 200mA			
Sample Received Date:	Oct. 13, 2021		$(\mathcal{O})$	
Sample tested Date:	Oct. 13, 2021 to Nov. 5, 2021		$\sim$	

## 4.3 **Product Specification subjective to this standard**

Operation Frequency:	5731MHz to 5795MHz		
Modulation Type:	GFSK	$(\mathcal{O})$	
Number of Channel:	33	$\smile$	$\bigcirc$
Test Power Grade:	Default		
Software Version:	N/A	13	
Antenna Type and Gain:	Type: FPC Antenna Gain: 3.91dBi	S)	(S)



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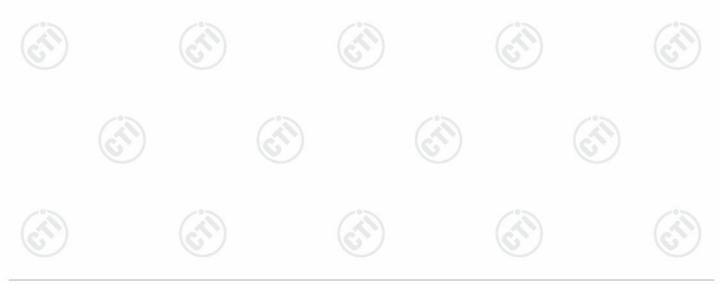


Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	5731MHz	10	5751MHz	20	5771MHz	30	5791MHz
1	5733MHz	11	5753MHz	21	5773MHz	31	5793MHz
2	5735MHz	12	5755MHz	22	5775MHz	32	5795MHz
3	5737MHz	13	5757MHz	23	5777MHz		
4	5739MHz	14	5759MHz	24	5779MHz		
5	5741MHz	15	5761MHz	25	5781MHz	(20	
6	5743MHz	16	5763MHz	26	5783MHz	G	)
7	5745MHz	17	5765MHz	27	5785MHz		
8	5747MHz	18	5767MHz	28	5787MHz		
9	5749MHz	19	5769MHz	29	5789MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency	
The lowest channel (CH0)	5731MHz	
The middle channel (CH18)	5767MHz	
The highest channel (CH32)	5795MHz	







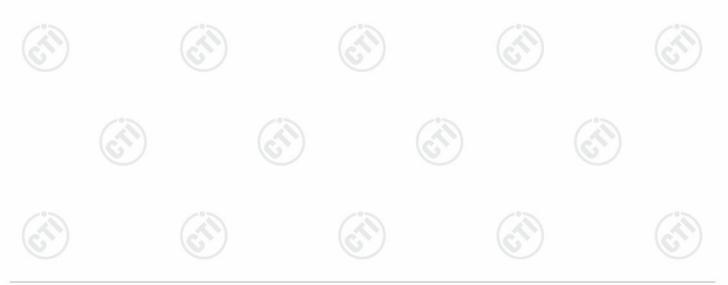


# 4.4 Test Configuration

Software:	Settings: N/A			
Soltware.	N/A	-0-	-0-	154
EUT Power Grade:	Class2 (Pov selected)	wer level is built-in s	set parameters and c	annot be changed and
Use test software to transmitting of the E	set the lowest frequency UT.	, the middle frequer	ncy and the highest f	frequency keep
Test Mode	Modulation	Rate	Channel	Frequency(MHz)
Mode a	GFSK	1Mbps	СН0	5731
woue a				
Mode b	GFSK	1Mbps	CH18	5767

# 4.5 Test Environment

	Operating Environment	::					
	Radiated Spurious Emi	ssions:					
	Temperature:	22~25.0 °C					
	Humidity:	50~55 % RH					
	Atmospheric Pressure:	1010mbar		$(\mathcal{C})$		$(\mathcal{O})$	
	RF Conducted:	·					
	Temperature:	22~25.0 °C					
1	Humidity:	50~55 % RH	20		13		13
2)	Atmospheric Pressure:	1010mbar	<u>(</u> 2)		$(\sim)$		(2)
	Conducted Emissions:						
	Temperature:	22~25.0 °C					
	Humidity:	50~55 % RH		-		-	
-	Atmospheric Pressure:	1010mbar					
	6	67		67		67	







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Report No.: EED32N81004302

## 4.6 Description of Support Units

The EUT has been tested with associated equipment below.

### 4.7 Test Location

(3)

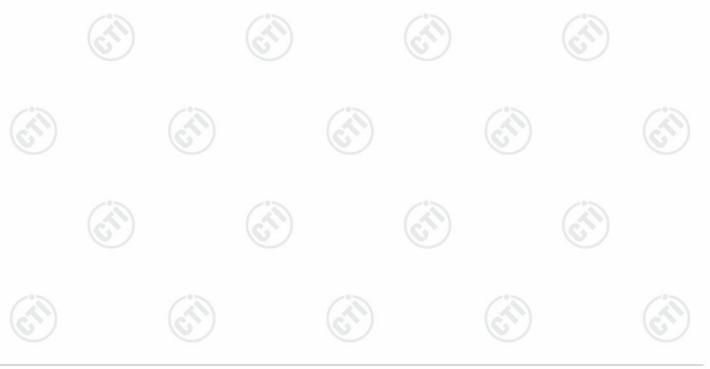
All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385 No tests were sub-contracted. FCC Designation No.: CN1164

# 4.8 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 <sup>-8</sup>
2		0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-18GHz)
		3.3dB (9kHz-30MHz)
3	Dedicted Sourious emission test	4.3dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
5)		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
4	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%







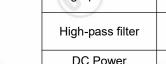


# **5 Equipment List**

Conducted disturbance Test									
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)				
Receiver	R&S	ESCI	100435	04-15-2021	04-14-2022				
Temperature/ Humidity Indicator	Defu	TH128	/		(6				
LISN	R&S	ENV216	100098	03-04-2021	03-03-2022				
Barometer	changchun	DYM3	1188						

ZOAN									
RF test system									
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)				
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-28-2020	12-27-2021				
Signal Generator	Keysight	N5182B	MY53051549	12-28-2020	12-27-2021				
Spectrum Analyzer	R&S	FSV40	101200	08-26-2021	08-25-2022				
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-24-2021	06-23-2022				
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	( <u>~</u> )	(	s)				
High-pass filter	MICRO- TRONICS	SPA-F-63029-4							
DC Power	Keysight	E3642A	MY56376072	12-28-2020	12-27-2021				
Power unit	R&S	OSP120	101374	12-28-2020	12-27-2021				
RF control unit	JS Tonscend	JS0806-2	158060006	12-28-2020	12-27-2021				
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3							
	(3)	6		(	105				

3M Semi/full-anechoic Chamber									
Equipment	Chamber & Chambe		Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)				
3M Chamber & Accessory Equipment				05-24-2019	05-23-2022				
TRILOG Broadband Antenna	Schwarzbeck	VULB9163 9163-618		05-16-2021	05-15-2022				
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024 10-15-2021 10-13-2022				
Receiver	R&S	ESCI7	100938-003	10-17-2020 10-14-2021					
Multi device Controller	maturo	NCD/070/10711 112	(A)	(	5)				
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-24-2021	06-23-2022				
Cable line	Fulai(7M)	SF106	5219/6A						
Cable line	Fulai(6M)	SF106	5220/6A						
Cable line	Fulai(3M)	SF106	5216/6A		(				
Cable line	Fulai(3M)	SF106	5217/6A		(6)				











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		3M full-anecho	c Chamber			
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
RSE Automatic test software	JS Tonscend	JS36-RSE	10166			
Receiver	Keysight	N9038A	MY57290136	03-04-2021	03-03-2022	
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021	03-03-2022	
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021	03-03-2022	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024	
Horn Antenna	ETS- LINDGREN	3117	00057407	07-04-2021	07-03-2024	
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022	
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022	
Preamplifier	JS Tonscend	980380	EMC051845 SE	12-31-2020	12-30-2021	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022	
Fully Anechoic Chamber	ТДК	FAC-3	(A)	01-09-2021	01-08-2024	
Cable line	Times	SFT205-NMSM- 2.50M	394812-0001	(	I)	
Cable line	Times	SFT205-NMSM- 2.50M	394812-0002			
Cable line	Times	SFT205-NMSM- 2.50M	394812-0003	<'>	- /	
Cable line	Times	SFT205-NMSM- 2.50M	393495-0001		(ć	
Cable line	Times	EMC104-NMNM- 1000	SN160710			
Cable line	Times	SFT205-NMSM- 3.00M	394813-0001			
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001	(	- (2)	
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001		9	
Cable line	Times	HF160-KMKM- 3.00M	393493-0001			







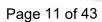






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## 6 Test results and Measurement Data

## 6.1 Antenna Requirement

#### Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

#### 15.203 requirement:

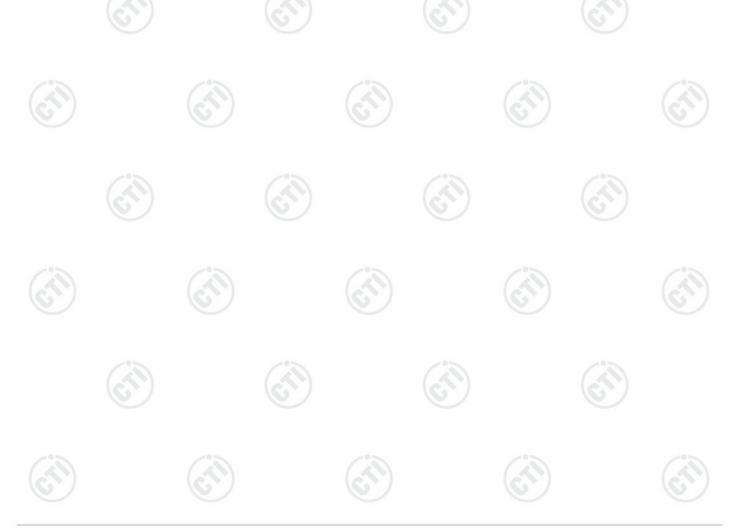
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:	Please see Internal photos	_
The antenna is EPC Antenn	a. The best case gain of the antenna is 3 01dRi	

The antenna is FPC Antenna. The best case gain of the antenna is 3.91dBi.









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# 6.2 AC Power Line Conducted Emission

	Test Requirement:	47 CFR Part 15C Section 15	.207						
	Test Method:	ANSI C63.10: 2013							
10	Test Frequency Range:	150kHz to 30MHz							
	Receiver setup:	RBW=9 kHz, VBW=30 kHz,	Sweep time=auto						
2	Limit:		Limit (	dBuV)					
		Frequency range (MHz)	Quasi-peak	Average					
		0.15-0.5	66 to 56*	56 to 46*					
		0.5-5	56	46					
		5-30	60	50					
		* Decreases with the logarith							
	Test Setup:		· ·						
Ś		Shielding Room		Test Receiver					
		AC Mains	AE E E S Ground Reference Plane						
63									
	Test Procedure:	<ul> <li>room.</li> <li>2) The EUT was connected Impedance Stabilization M impedance. The power cat connected to a second LI reference plane in the sat measured. A multiple soc power cables to a single M exceeded.</li> <li>3) The tabletop EUT was plat ground reference plane. A placed on the horizontal g</li> <li>4) The test was performed w of the EUT shall be 0.4 m</li> </ul>	to AC power source the Network) which provide ables of all other units of SN 2, which was bonde me way as the LISN 1 f ket outlet strip was use LISN provided the ratin aced upon a non-metall And for floor-standing a ground reference plane with a vertical ground re	s a $50\Omega/50\mu$ H + $5\Omega$ linear of the EUT were ed to the ground for the unit being ed to connect multiple g of the LISN was not lic table 0.8m above the rrangement, the EUT was ,					
(X)		vertical ground reference reference plane. The LISI unit under test and bonde mounted on top of the gro between the closest point the EUT and associated e 5) In order to find the maxim	N 1 was placed 0.8 m f ed to a ground referenc ound reference plane. T is of the LISN 1 and the equipment was at least	rom the boundary of the e plane for LISNs This distance was e EUT. All other units of 0.8 m from the LISN 2.					







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				e interface ca conducted me		changed acco	ording to
Exploratory Te	est Mode:	Non-hopping	transmitting	mode with all ddle, high cha	kind of modu	lation and all I	kind of
Test Results:		Pass					

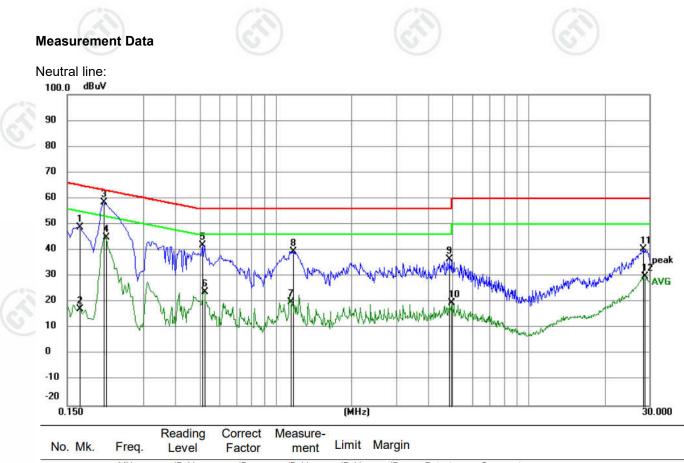
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NO. WIN.	Ticy.	Level	Factor	ment		ind gin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1680	38.95	9.87	48.82	65.06	-16.24	peak	
2	0.1680	7.62	9.87	17.49	55.06	-37.57	AVG	
3 *	0.2085	48.43	9.89	58.32	63.26	-4.94	peak	
4	0.2130	34.94	9.90	44.84	53.09	-8.25	AVG	
5	0.5144	32.06	9.97	42.03	56.00	-13.97	peak	
6	0.5234	14.08	9.98	24.06	46.00	-21.94	AVG	
7	1.1444	10.30	9.82	20.12	46.00	-25.88	AVG	
8	1.1713	29.68	9.82	39.50	56.00	-16.50	peak	
9	4.8525	26.89	9.78	36.67	56.00	-19.33	peak	
10	4.9560	9.95	9.78	19.73	46.00	-26.27	AVG	
11	28.3515	30.53	10.02	40.55	60.00	-19.45	peak	
12	28.7340	19.91	10.02	29.93	50.00	-20.07	AVG	

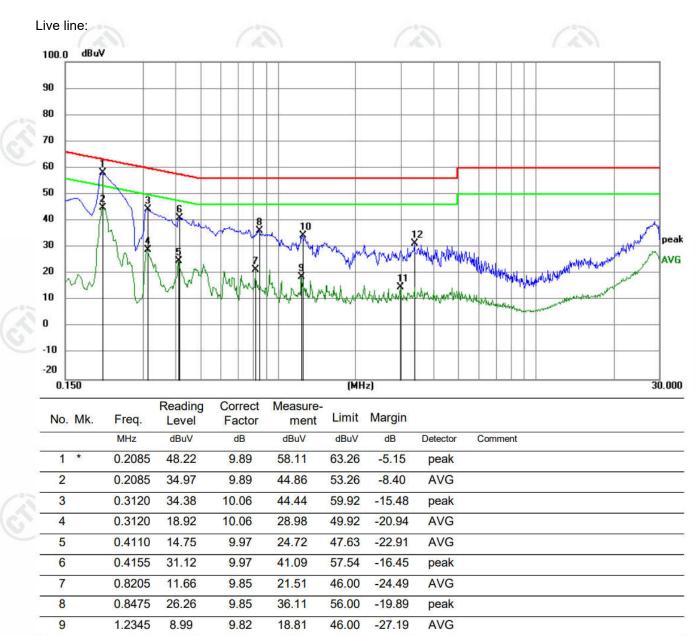
#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.





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-21.53

-30.94

-24.63

peak

AVG

peak

56.00

46.00

56.00

Remark:

10

11

12

1. The following Quasi-Peak and Average measurements were performed on the EUT:

34.47

15.06

31.37

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

9.82

9.79

9.79

24.65

5.27

21.58

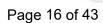
1.2480

2.9849

3.3990

3. If the Peak value under Average limit, the Average value is not recorded in the report.





# 6.3 Maximum Conducted Output Power

	Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)	
	Test Method:	ANSI C63.10 2013	
Ś	Test Setup:		(S)
		Control Computer Power Suppy TemPerature CABINET Table	
		Remark: Offset=Cable loss+ attenuation factor.	
	Test Procedure:	<ul> <li>a) Set the RBW ≥ DTS bandwidth.</li> <li>b) Set VBW ≥ 3 × RBW.</li> <li>c) Set span ≥ 3 x RBW</li> <li>d) Sweep time = auto couple.</li> <li>e) Detector = peak.</li> <li>f) Trace mode = max hold.</li> <li>g) Allow trace to fully stabilize.</li> <li>h) Use peak marker function to determine the peak amplitude level.</li> </ul>	
	Limit:	30dBm	
6	Test Mode:	Refer to clause 5.3	67
	Test Results:	Refer to Appendix C	







## 6.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)	)(2)	J
Test Method:	ANSI C63.10 2013		
Test Setup:	-02		
	Control Computer Power Supply TemPERATURE CABINET	RF test System Instrument	
	Remark: Offset=Cable loss+ attenua	ation factor.	
Test Procedure:	<ul> <li>a) Set RBW = 100 kHz.</li> <li>b) Set the VBW ≥[3 × RBW].</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max hold.</li> <li>e) Sweep = auto couple.</li> <li>f) Allow the trace to stabilize.</li> <li>g) Measure the maximum width of frequencies associated with the two lower frequencies) that are attenuat measured in the fundamental emiss</li> </ul>	o outermost amplitude ed by 6 dB relative to	e points (upper and
Limit:	≥ 500 kHz	$(\mathcal{A})$	(2)
Test Mode:	Refer to clause 5.3		V
Test Results:	Refer to Appendix A		







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# 6.5 Maximum Power Spectral Density

	Test Requirement:	47 CFR Part 15C Section 15.247 (e)
	Test Method:	ANSI C63.10 2013
3	Test Setup:	
		Control Computer Power Supply Table RF test System Instrument
		Remark: Offset=Cable loss+ attenuation factor.
	Test Procedure:	<ul> <li>a) Set analyzer center frequency to DTS channel center frequency.</li> <li>b) Set the span to 1.5 times the DTS bandwidth.</li> <li>c) Set the RBW to 3 kHz &lt; RBW &lt; 100 kHz.</li> <li>d) Set the VBW &gt; [3 × RBW].</li> <li>e) Detector = peak.</li> <li>f) Sweep time = auto couple.</li> <li>g) Trace mode = max hold.</li> <li>h) Allow trace to fully stabilize.</li> <li>i) Use the peak marker function to determine the maximum amplitude level within the RBW.</li> <li>j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.</li> </ul>
	Limit:	≤8.00dBm/3kHz
	Test Mode:	Refer to clause 5.3
	Test Results:	Refer to Appendix D



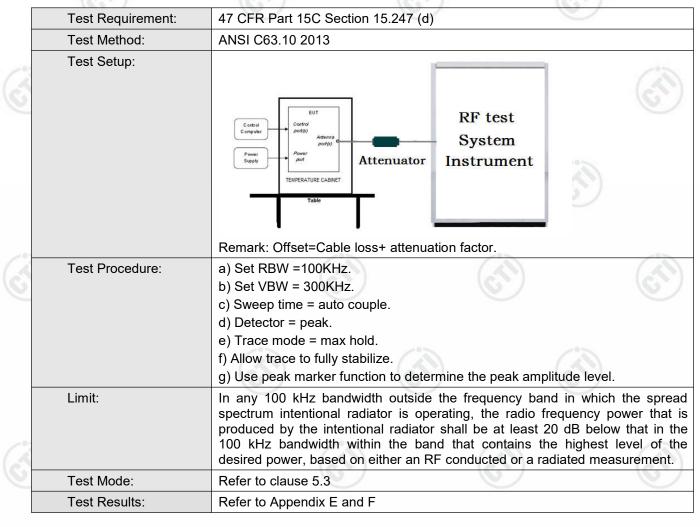






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## 6.6 Band Edge measurements and Conducted Spurious Emission









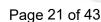
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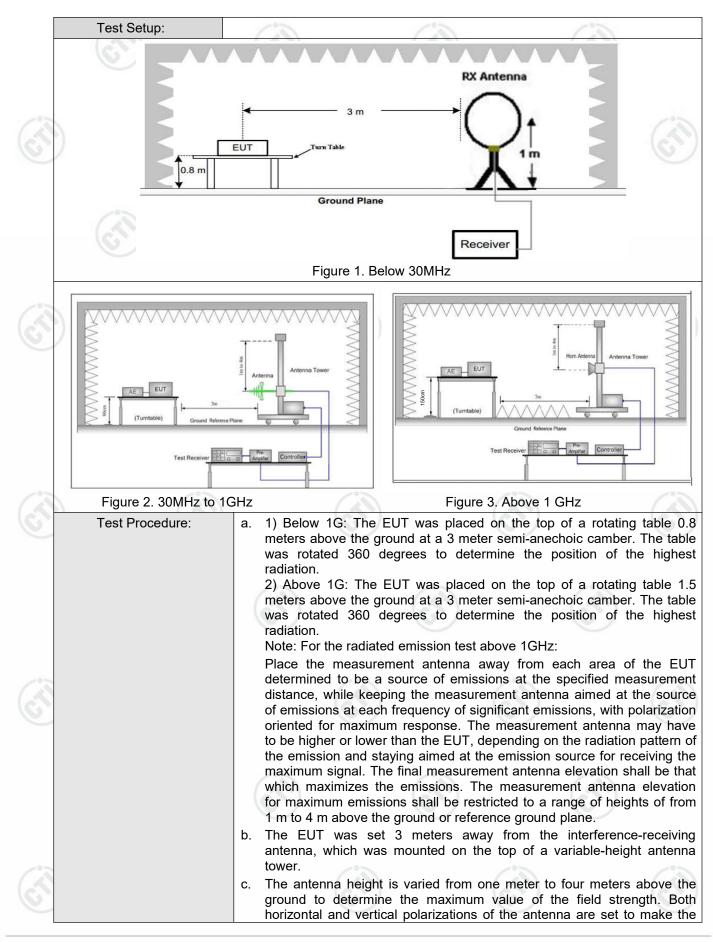
# 6.7 Radiated Spurious Emission & Restricted bands

	Test Requirement:	47 CFR Part 15C Secti	on 1	15.209 and 15	.205		C			
	Test Method:	ANSI C63.10 2013								
	Test Site:	Measurement Distance	Measurement Distance: 3m (Semi-Anechoic Chamber)							
	Receiver Setup:	Frequency	1	Detector	RBW	6	VBW	Remark		
S.		0.009MHz-0.090MH	z	Peak	10kH:	z	30kHz	Peak		
		0.009MHz-0.090MH	z	Average	10kH:	z	30kHz	Average		
		0.090MHz-0.110MH	z	Quasi-peak	10kH	z	30kHz	Quasi-peak		
		0.110MHz-0.490MH	z	Peak	10kH	z	30kHz	Peak		
		0.110MHz-0.490MH	z	Average	10kH:	z	30kHz	Average		
		0.490MHz -30MHz		Quasi-peak	10kH	z	30kHz	Quasi-peak		
		30MHz-1GHz		Quasi-peak	100 kH	lz 300kHz		Quasi-peak		
1		Above 10Hz	2	Peak	1MHz	2	3MHz	Peak		
6		Above 1GHz		Peak	1MHz	<u>z</u> )	10kHz	Average		
	Limit:	Frequency	Frequency (mic		Limit (dBuV/m)		Remark	Measureme distance (m		
		0.009MHz-0.490MHz	2	400/F(kHz)	-		- / 2	300		
		0.490MHz-1.705MHz	24	4000/F(kHz)	-		- (2)	30		
		1.705MHz-30MHz		30	-		<u>e</u>	30		
		30MHz-88MHz		100	40.0	Q	uasi-peak	3		
		88MHz-216MHz		150	43.5	Q	uasi-peak	3		
		216MHz-960MHz	3	200	46.0	Q	uasi-peak	3		
9		960MHz-1GHz	)	500	54.0	Q	uasi-peak	3		
		Above 1GHz		500	54.0		Average	3		
		Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rac	20c equip	dB above the pment under t	maximum est. This p	ре	rmitted ave	erage emissior		







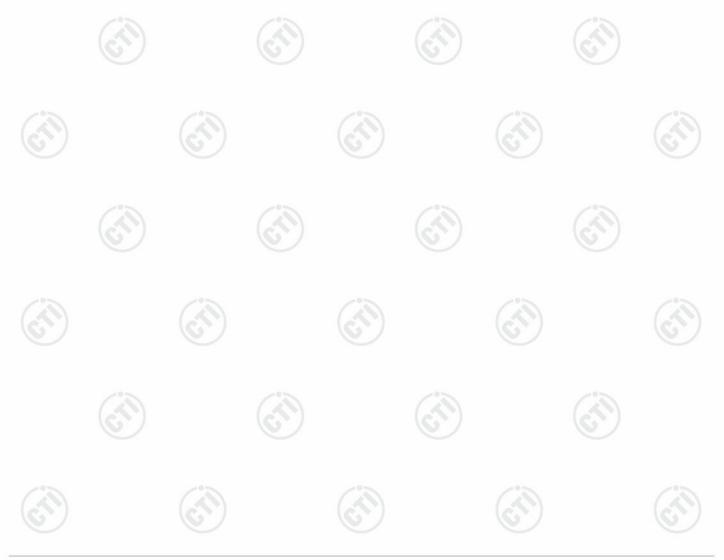






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		measurement.
		d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
a		e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
0		f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
		g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
		h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
		i. Repeat above procedures until all frequencies measured was complete.
6	Test Mode:	Refer to clause 5.3
	Test Results:	Pass



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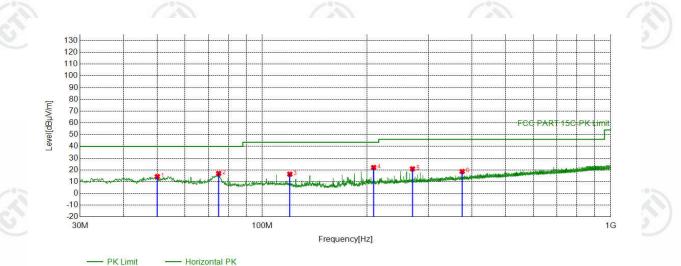
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#### Report No.: EED32N81004302

#### **Radiated Spurious Emission below 1GHz:**

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case highest channel of 5.8G was recorded in the report.

#### Test Graph



FIX LITIN	- HUHZUHIAI FK
QP Detector	AV Detector

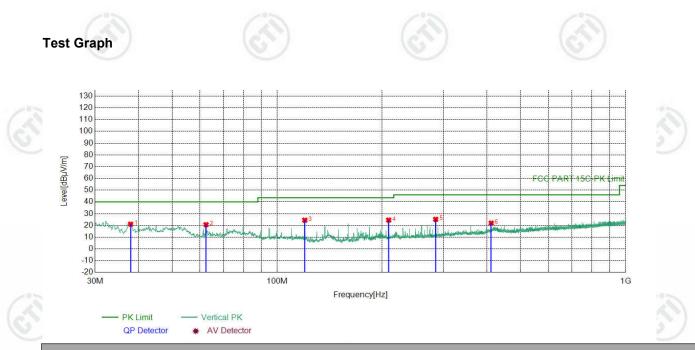
	Suspecte	d List								
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Decult	Delerity	Dement
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
-07	1	49.9840	-17.18	31.52	14.34	40.00	25.66	PASS	Horizontal	PK
3	2	75.0125	-21.68	38.69	17.01	40.00	22.99	PASS	Horizontal	PK
	3	120.0250	-20.08	36.49	16.41	43.50	27.09	PASS	Horizontal	PK
	4	208.8859	-17.63	39.70	22.07	43.50	21.43	PASS	Horizontal	PK
	5	270.0020	-16.15	37.07	20.92	46.00	25.08	PASS	Horizontal	PK
	6	375.0635	-13.45	32.10	18.65	46.00	27.35	PASS	Horizontal	PK
	( 6	(2)		$(\sim)$		$(\sim)$		3	$(\mathcal{A})$	







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#### Suspected List

	Suspecie		-							
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
		[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
	1	37.9548	-18.67	39.75	21.08	40.00	18.92	PASS	Vertical	PK
	2	62.4983	-19.07	39.71	20.64	40.00	19.36	PASS	Vertical	PK
	3	120.0250	-20.08	44.54	24.46	43.50	19.04	PASS	Vertical	PK
3	4	208.8859	-17.63	42.20	24.57	43.50	18.93	PASS	Vertical	PK
	5	285.0385	-15.83	41.03	25.20	46.00	20.80	PASS	Vertical	PK
-	6	411.4421	-12.69	34.68	21.99	46.00	24.01	PASS	Vertical	PK





## Radiated Spurious Emission above 1GHz:

	Mode NO 1 2 3 4	:		5.8G transmitti	ng		Channel:		5731 MHz	<u>z</u>
3	NO	Freq. [MHz]	Facto [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1422.9923	1.84	43.08	44.92	68.20	23.28	Pass	Н	PK
Ī	2	2440.5941	5.10	41.19	46.29	68.20	21.91	Pass	Н	PK
ĺ	3	3926.2926	9.88	39.65	49.53	68.20	18.67	Pass	Н	PK
	4	9007.1671	-8.42	52.97	44.55	68.20	23.65	Pass	Н	PK
	5	11460.6640	-5.97	61.21	55.24	68.20	12.96	Pass	Н	PK
ĺ	6	11461.4308	-5.97	51.27	45.30	54.00	8.70	Pass	Н	AV
Ī	7	14359.6240	0.20	50.39	50.59	68.20	17.61	Pass	Н	PK
3	8	1663.3663	3.26	41.98	45.24	68.20	22.96	Pass	V	PK
	9	2536.3036	5.53	41.15	46.68	68.20	21.52	Pass	V	PK
-	10	3733.2233	8.64	40.02	48.66	68.20	19.54	Pass	V	PK
Ī	11	9161.2774	-8.08	53.21	45.13	68.20	23.07	Pass	V	PK
Ī	12	11460.6640	-5.97	57.24	51.27	68.20	16.93	Pass	V	PK
Ī	13	14404.0936	0.58	49.60	50.18	68.20	18.02	Pass	V	PK
		10.3		10.21		10.3		10		

Mode	e:		5.8G transmittir	ng		Channel:		5767 MHz	<u>z</u>
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1134.2134	1.09	44.08	45.17	68.20	23.03	Pass	н	PK
2	2041.8042	5.31	42.25	47.56	68.20	20.64	Pass	н	PK
3	3310.2310	8.30	40.32	48.62	68.20	19.58	Pass	н	PK
4	8307.9205	-10.99	54.55	43.56	68.20	24.64	Pass	Н	PK
5	11788.0525	-6.15	55.01	48.86	68.20	19.34	Pass	Н	PK
6	15881.5588	-0.15	50.98	50.83	68.20	17.37	Pass	Н	PK
7	1375.1375	1.78	43.30	45.08	68.20	23.12	Pass	V	PK
8	2102.8603	5.59	40.98	46.57	68.20	21.63	Pass	V	PK
9	3296.4796	8.30	40.20	48.50	68.20	19.70	Pass	V	PK
10	8797.8532	-9.11	53.27	44.16	68.20	24.04	Pass	V	PK
11	11532.7355	-6.02	60.54	54.52	68.20	13.68	Pass	V	PK
12	11533.5022	-6.03	50.32	44.29	54.00	9.71	Pass	V	AV
13	14309.0206	-0.34	50.79	50.45	68.20	17.75	Pass	V	PK
			19.5		197		/	-	



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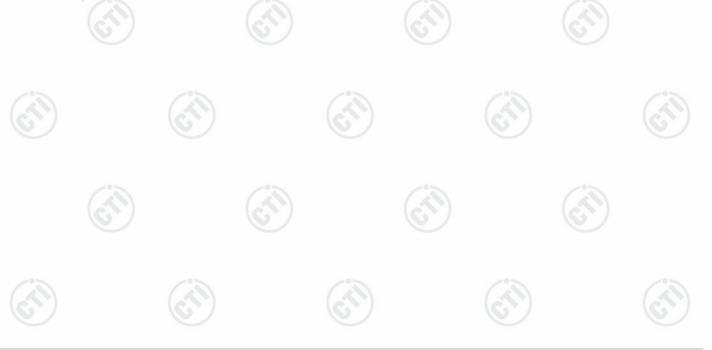
	200		127		197			0	
Mode	e:		5.8G transmittir	ng		Channel:		5795 MHz	2
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1432.3432	1.85	42.89	44.74	68.20	23.46	Pass	н	PK
2	2556.1056	5.59	41.95	47.54	68.20	20.66	Pass	Н	PK
3	3200.7701	7.82	41.24	49.06	68.20	19.14	Pass	Н	PK
4	7699.9133	-11.19	54.34	43.15	68.20	25.05	Pass	Н	PK
5	11589.4726	-6.41	59.83	53.42	68.20	14.78	Pass	Н	PK
6	15460.6307	-0.05	50.55	50.50	68.20	17.70	Pass	Н	PK
7	1509.9010	2.00	42.31	44.31	68.20	23.89	Pass	V	PK
8	2815.1815	6.56	41.47	48.03	68.20	20.17	Pass	V	PK
9	3875.6876	9.62	40.16	49.78	68.20	18.42	Pass	V	PK
10	9019.4346	-8.45	53.33	44.88	68.20	23.32	Pass	V	PK
11	11588.7059	-6.40	56.79	50.39	68.20	17.81	Pass	V	PK
12	14399.4933	0.63	49.62	50.25	68.20	17.95	Pass	V	PK

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Factor

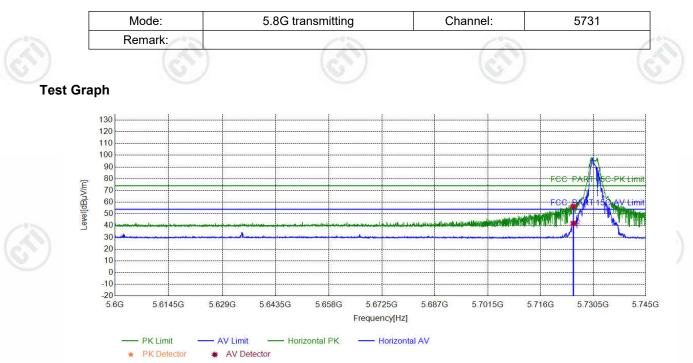
- Factor=Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.











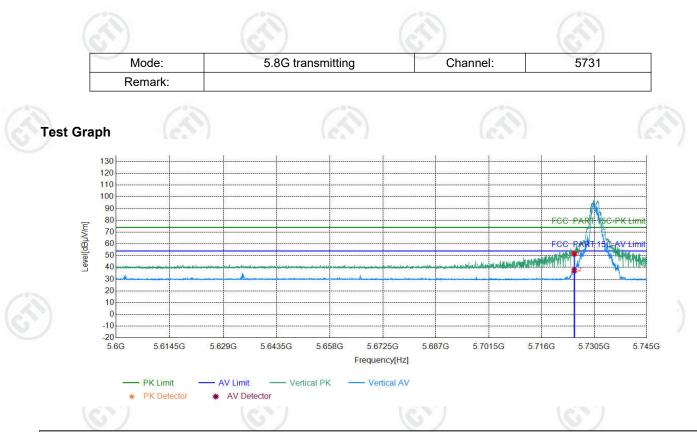
	Suspec	ted List								
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Decult	Delority	Domork
-	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
	1	5725.0000	-13.83	70.27	56.44	68.20	11.76	PASS	Horizontal	PK
	2	5725.0000	-13.83	55.73	41.90	54.00	12.10	PASS	Horizontal	AV
-	1	2								



# CTI华测检测

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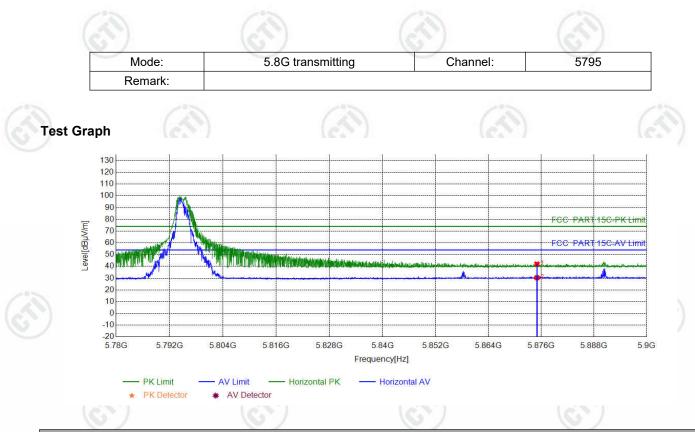
	Suspec	cted List								
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Folding	Remark
6	1	5725.0000	-13.83	65.45	51.62	68.20	16.58	PASS	Vertical	PK
	2	5725.0000	-13.83	51.16	37.33	54.00	16.67	PASS	Vertical	AV



# CTI华测检测

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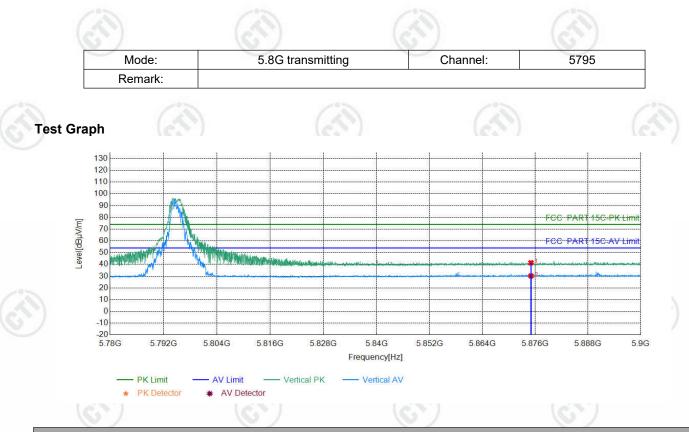
	Suspect	ted List								
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
		[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Folanty	Remark
6	1	5875.0000	-13.60	55.58	41.98	74.00	32.02	PASS	Horizontal	PK
	2	5875.0000	-13.60	43.98	30.38	54.00	23.62	PASS	Horizontal	AV



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	Suspect	ed List								
A	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	5875.0000	-13.60	55.04	41.44	74.00	32.56	PASS	Vertical	PK
	2	5875.0000	-13.60	43.81	30.21	54.00	23.79	PASS	Vertical	AV

#### Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Factor

Factor=Antenna Factor + Cable Factor – Preamplifier Factor

