



FCC Part 15C Test Report

FCC ID: 2AJ7NKT-X1515

Product Name:	Helmet Brake Light
Trademark:	StreetFX
Model Name :	KT-X1515-REM, KT-X1515-REC
Prepared For :	The Bencil Company
Address :	1755 Midwest Boulevard, Indianapolis, IN 46214, USA
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
Address :	No.101,Yousong Road,Longhua New District, Shenzhen,China
Test Date:	Oct. 13 – Oct. 20, 2016
Date of Report :	Oct. 20, 2016
Report No.:	BCTC-FY161004344E



CERTIFICATION

Applicant's name : The Bentcil Company

Address..... : 1755 Midwest Boulevard, Indianapolis, IN 46214, USA

Manufacture's Name : Allegro Electronics Limited

Address..... : Room 11, 8/F, Favor Industrial Centre, 2-6 Kin Hong Street, Kwai Chung, N.T, Hong Kong

Product description

Product name..... : Helmet Brake Light

Trademark: StreetFX

Model Name: KT-X1515-REM

Test Standards: ANSI C63.10:2013
FCC Part15.249:2015

This device described above has been tested by BCTC, 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.

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Test Result.....: **Pass**

Testing Engineer : _____

Eric Yang

Reviewer
(Supervisor) : _____

Jade Yang

Approved &
Authorized
Signer(Manager) : _____



Carson Zhang



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.249) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	
15.249	Fundamental & Radiated Spurious Emission Measurement	PASS	
15.249	Bandwidth	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.: No. 101, Yousong Road, Longhua New District, Shenzhen, China

FCC Registration No.: 187086

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 1.38\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated (<1G)	$\pm 4.68\text{dB}$
5	All emissions, radiated (>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Helmet Brake Light	
Trade Name	StreetFX	
Model Name	KT-X1515-REM	
Serial Model	KT-X1515-REC	
Model Difference	All the same, Only model name is different.	
Product Description	Operation Frequency:	2415~2470 MHz
	Modulation Type:	GFSK
	Bit Rate of Transmitter	5M
	Number Of Channel	12 CH
	Antenna Designation:	Please see Note 3.
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.		
Channel List	Please refer to the Note 2.	
Power Source	DC 12V	
Connecting I/O Port(s)	Please refer to the User's Manual	
hardware version	--	
Software version	--	
Serial number	--	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2415	06	2440	11	2465
02	2420	07	2445	12	2470
03	2425	08	2450		
04	2430	09	2455		
05	2435	10	2460		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
1	N/A	N/A	Internal Antenna	0	



2.2 DESCRIPTION OF TEST MODES

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

For Conducted & Radiated Emission	
Final Test Mode	Description
Mode 1	CH01
Mode 2	CH06
Mode 3	CH12
Mode 4	Link Mode

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test

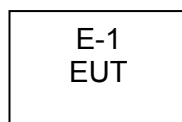
2.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Frequency	2415 MHz	2440 MHz	2470 MHz
Channel	Low	Middle	High

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test





2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Helmet Brake Light	StreetFX	KT-X1515-REM	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (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”.



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	1166.5950K03-101165-ha	2016.06.05	2017.06.04	1 year
2	LISN	R&S	NSLK8126	8126466	2016.08.24	2017.08.23	1 year
3	LISN	R&S	NSLK8126	8126487	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.05	2017.06.04	1 year
5	RF cables	R&S	R204	R20X	2016.06.05	2017.06.04	1 year

Radiation test, Band-edge test and 20db bandwidth test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2016.06.05	2017.06.04	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.05	2017.06.04	1 year
3	Bilog Antenna	R&S	VULB9168	VULB9168-438	2016.06.05	2017.06.04	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.05	2017.06.04	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.05	2017.06.04	1 year
6	Horn Antenna	R&S	HF906	10027	2016.06.05	2017.06.04	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.06.05	2017.06.04	1 year
8	Amplifier	R&S	BBV9743	9743-019	2016.06.05	2017.08.23	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.05	2017.06.04	1 year
10	RF cables	R&S	R203	R20X	2016.06.05	2017.06.04	1 year
11	Antenna connector	Florida RFLabs	Lab-Fle	RF 01#	2016.06.05	2017.06.04	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quas -peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

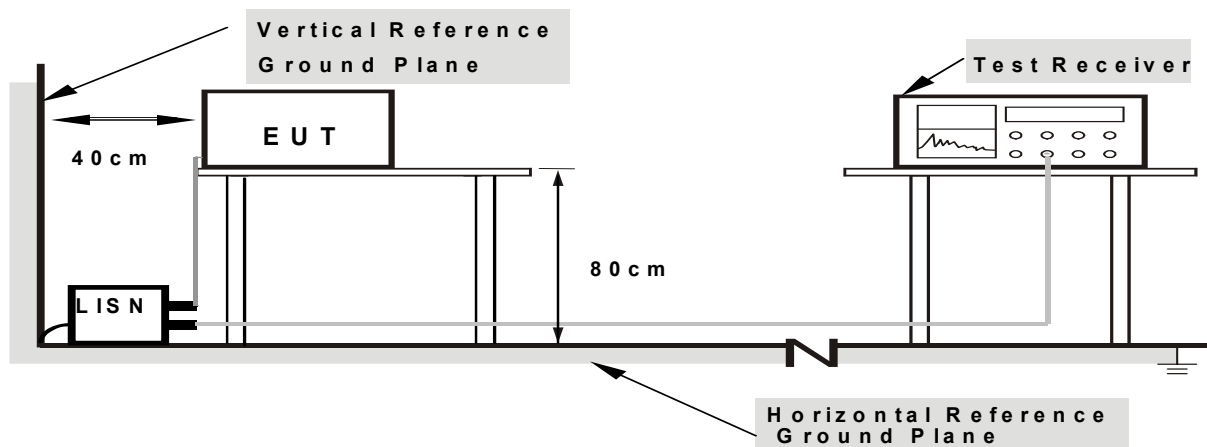
3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected 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.
- 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 40 cm long.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

NOTE: This EUT is powered by the DC only, this test item is not applicable.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

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.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower



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 / 10Hz 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

3.2.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; above 1GHz, the height was 1.5m, 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
- 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.

Note:

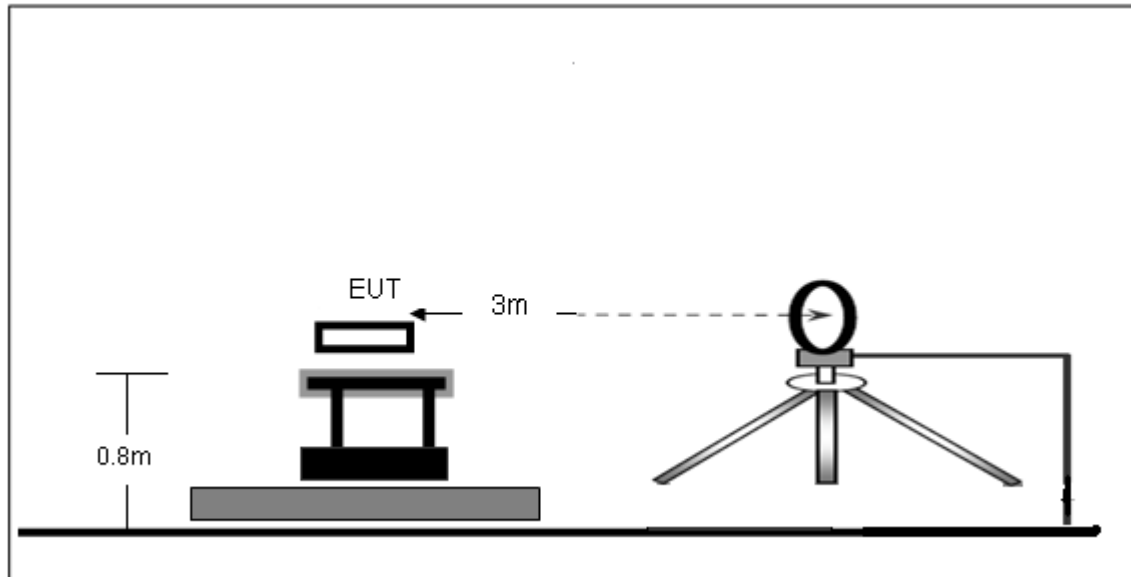
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

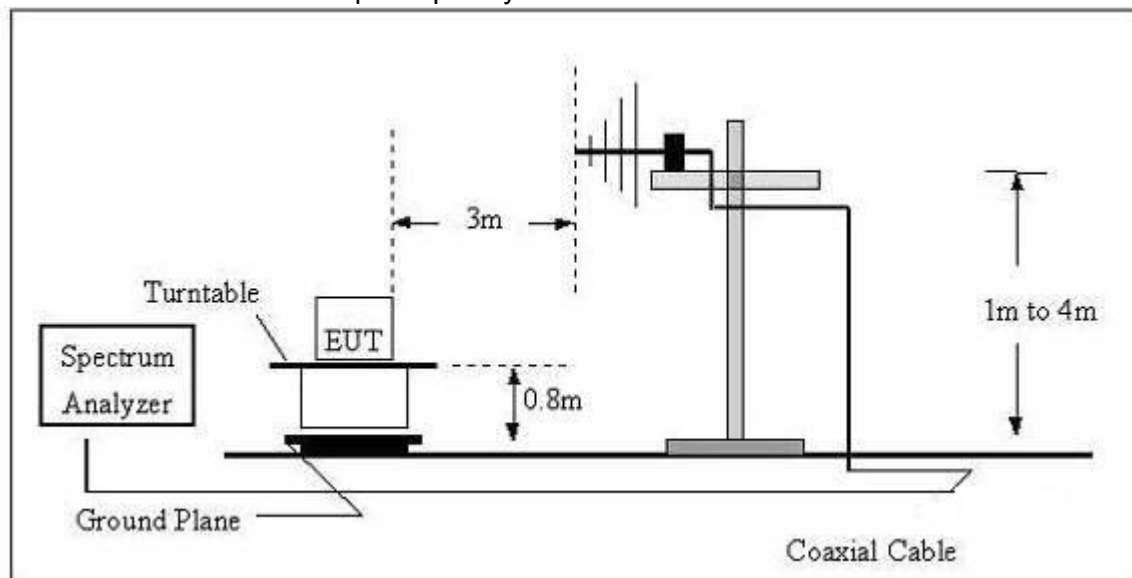
No deviation

3.2.4 TEST SETUP

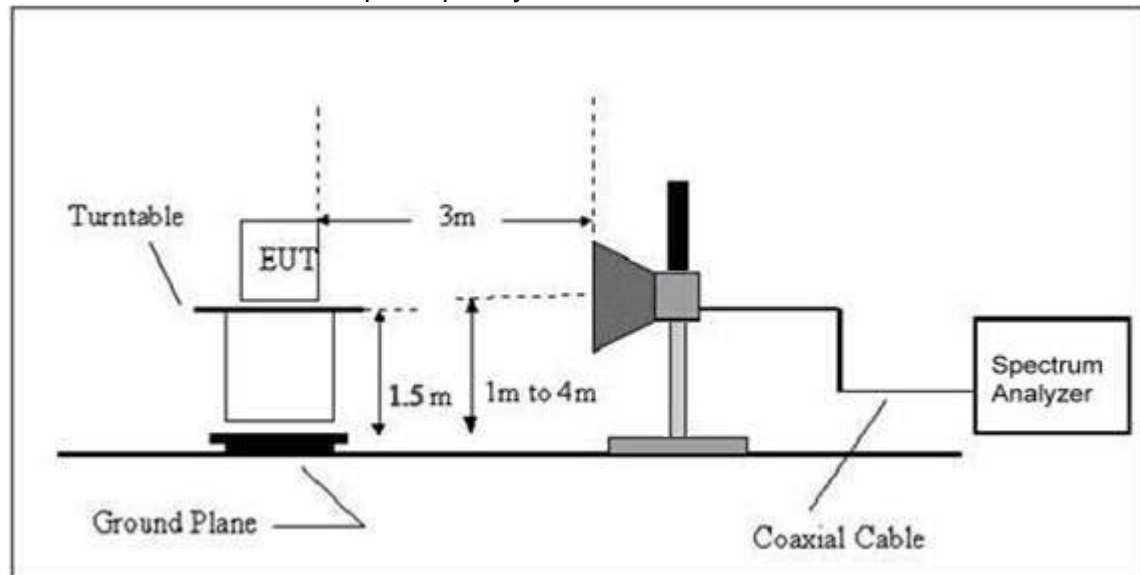
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS

Radiated Spurious Emission (Below 30MHz)

Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Polarization :	---
Test Voltage :	DC 12V		
Test Mode :	Link Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

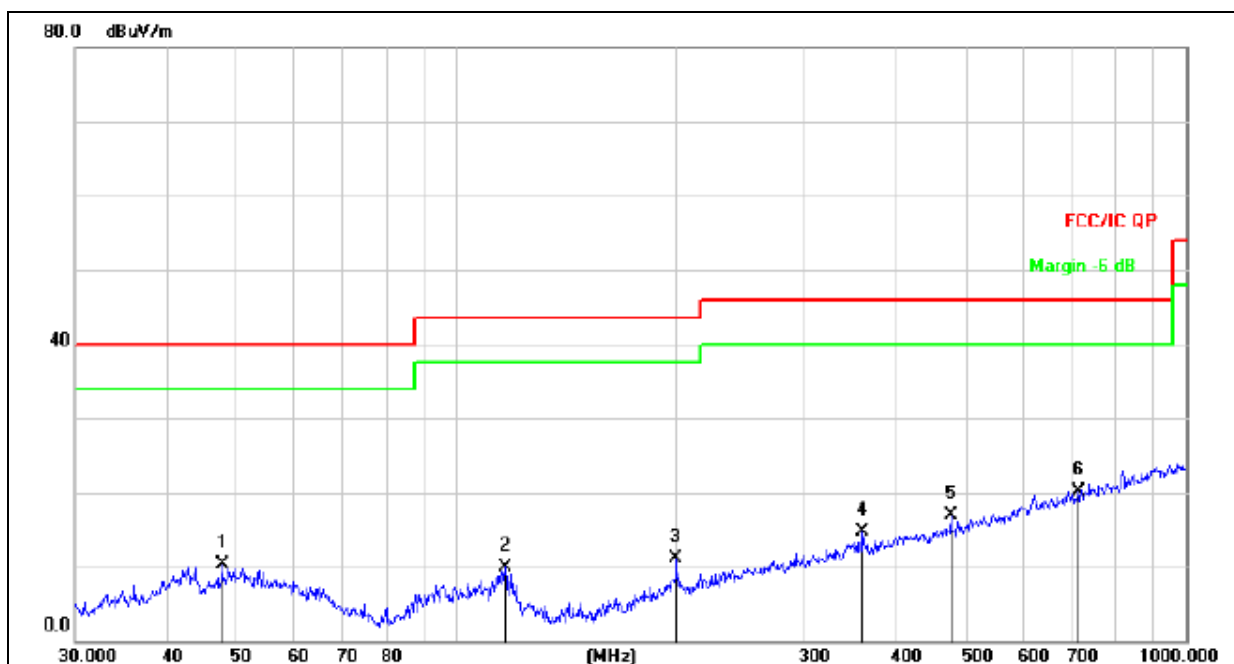
Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.



Radiated Spurious Emission (Between 30MHz – 1GHz)

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 12V		
Test Mode : (Worst)	Link Mode		

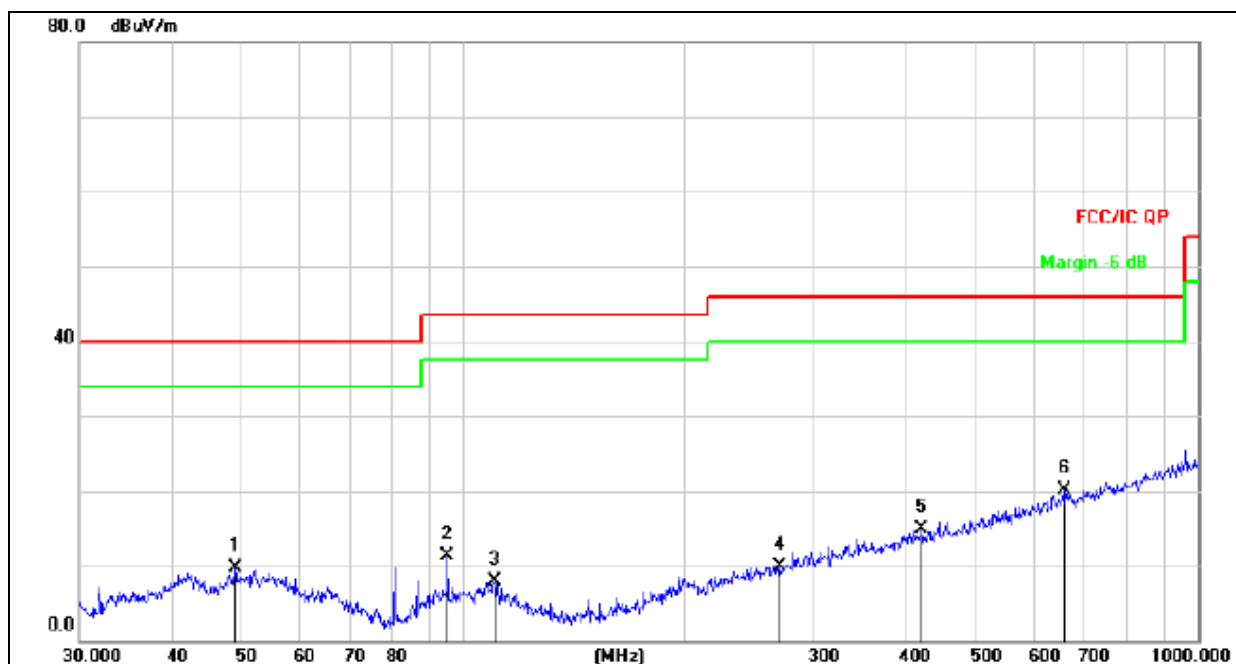


Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		47.6586	25.12	-14.73	10.39	40.00	-29.61	QP
2		116.5401	27.49	-17.49	10.00	43.50	-33.50	QP
3		199.9856	26.64	-15.63	11.01	43.50	-32.49	QP
4		360.4476	25.11	-10.40	14.71	46.00	-31.29	QP
5		475.4991	24.64	-7.83	16.81	46.00	-29.19	QP
6	*	711.6734	22.91	-2.75	20.16	46.00	-25.84	QP

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 12V		
Test Mode : (Worst)	Link Mode		



Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dB/m	dB	
1		48.8429	24.29	-14.66	9.63	40.00	-30.37	QP
2		95.0930	28.59	-17.20	11.39	43.50	-32.11	QP
3		110.1816	24.46	-16.50	7.96	43.50	-35.54	QP
4		269.4284	23.12	-13.12	10.00	46.00	-36.00	QP
5		420.5803	23.81	-8.83	14.98	46.00	-31.02	QP
6	*	656.5300	23.87	-3.69	20.18	46.00	-25.82	QP


Radiated Spurious Emission (1GHz to 10th harmonics)

GFSK

	Freq.	Receiver Reading	Detector	Polar	Corrected Factor	Emission Level	Limit	Result
	(MHz)	(dBμV)	(PK/QP/Ave)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	
Lower Channel 2415MHz	2415.00	90.53	PK	H	13.85	104.38	114.00	Pass
	2415.00	70.71	Ave	H	13.85	84.56	94.00	Pass
	4830.00	47.42	PK	H	19.33	66.75	74.00	Pass
	4830.00	28.27	Ave	H	19.33	47.60	54.00	Pass
	12355.00	24.68	PK	H	17.81	42.49	74.00	Pass
	17850.00	18.34	PK	H	25.39	43.73	74.00	Pass
	2415.00	91.06	PK	V	13.85	104.91	114.00	Pass
	2415.00	71.45	Ave	V	13.85	85.30	94.00	Pass
	4830.00	47.25	PK	V	19.33	66.58	74.00	Pass
	4830.00	27.96	Ave	V	19.33	47.29	54.00	Pass
	12355.00	25.43	PK	V	17.81	43.24	74.00	Pass
	17850.00	18.84	PK	V	25.39	44.23	74.00	Pass
Middle Channel 2440MHz	2440.00	89.65	PK	H	13.94	103.59	114.00	Pass
	2440.00	71.65	Ave	H	13.94	85.59	94.00	Pass
	4880.00	47.94	PK	H	19.43	67.37	74.00	Pass
	4880.00	29.79	Ave	H	19.43	49.22	54.00	Pass
	12355.00	26.96	PK	H	17.81	44.77	74.00	Pass
	17850.00	19.84	PK	H	25.39	45.23	74.00	Pass
	2440.00	90.57	PK	V	13.94	104.51	114.00	Pass
	2440.00	72.86	Ave	V	13.94	86.80	94.00	Pass
	4880.00	48.34	PK	V	19.43	67.77	74.00	Pass
	4880.00	28.55	Ave	V	19.43	47.98	54.00	Pass
	12355.00	26.54	PK	V	17.81	44.35	74.00	Pass
	17850.00	19.43	PK	V	25.39	44.82	74.00	Pass
Upper Channel 2470MHz	2470.00	90.36	PK	H	14.02	104.38	114.00	Pass
	2470.00	71.79	Ave	H	14.02	85.81	94.00	Pass
	4940.00	46.57	PK	H	19.51	66.08	74.00	Pass



	4940.00	27.93	Ave	H	19.51	47.44	54.00	Pass
	12355.00	25.78	PK	H	17.81	43.59	74.00	Pass
	17850.00	19.45	PK	H	25.39	44.84	74.00	Pass
	2470.00	89.37	PK	V	14.02	103.39	114.00	Pass
	2470.00	72.81	Ave	V	14.02	86.83	94.00	Pass
	4940.00	45.74	PK	V	19.51	65.25	74.00	Pass
	4940.00	27.25	Ave	V	19.51	46.76	54.00	Pass
	12355.00	26.39	PK	V	17.81	44.20	74.00	Pass
	17850.00	19.46	PK	V	25.39	44.85	74.00	Pass

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Meter Reading + Factor

Margin = Emission Level - Limit

Other harmonics emissions are lower than 20dB below the allowable limit.



4. BANDWIDTH TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.249) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.249	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	100KHz
VB	\geq RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW \geq RBW, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

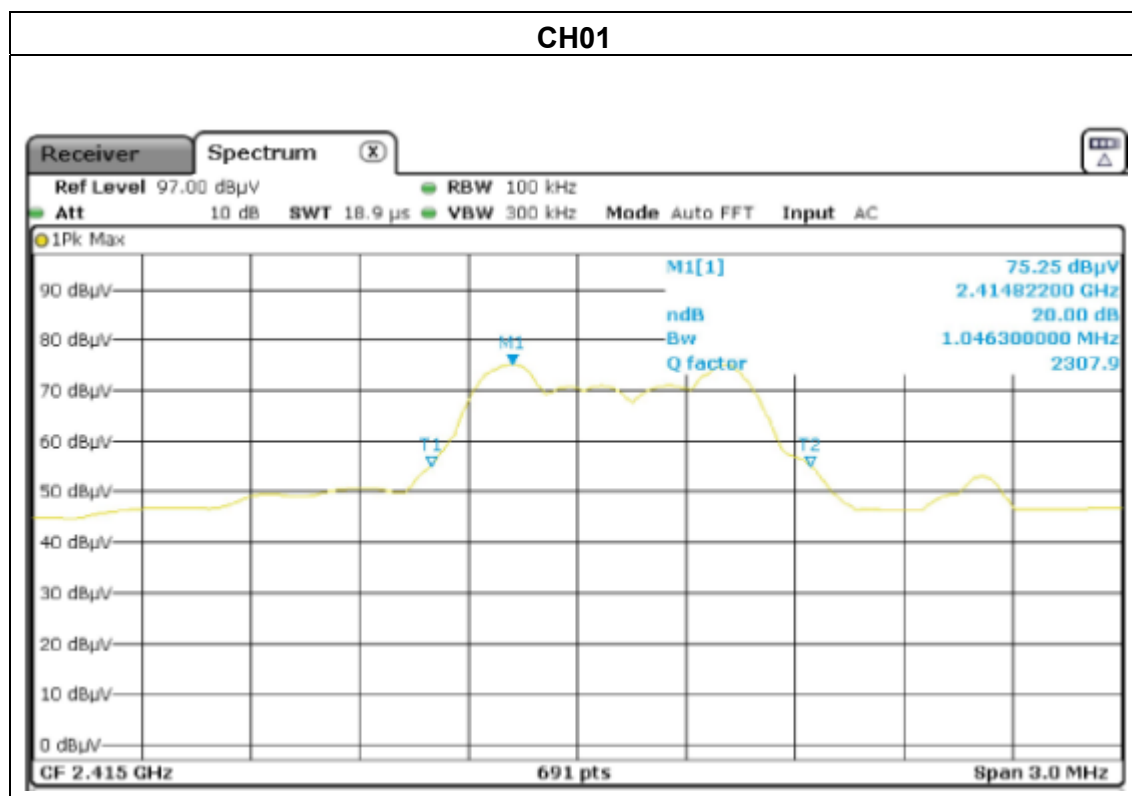


4.1.5 TEST RESULTS

Temperature :	25 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 12V
Test Mode :	CH01 / CH06 /CH12		

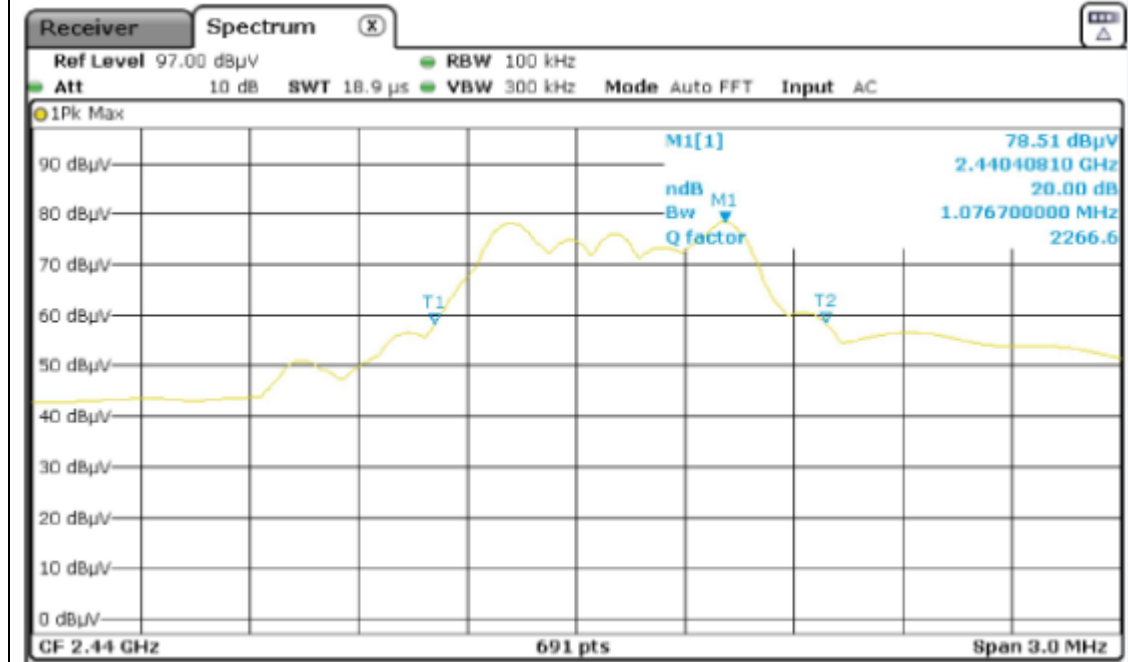
	Frequency	20dB Bandwidth (MHz)	Result
GFSK	2415 MHz	1.046	PASS
	2440 MHz	1.077	PASS
	2470 MHz	1.068	PASS

GFSK

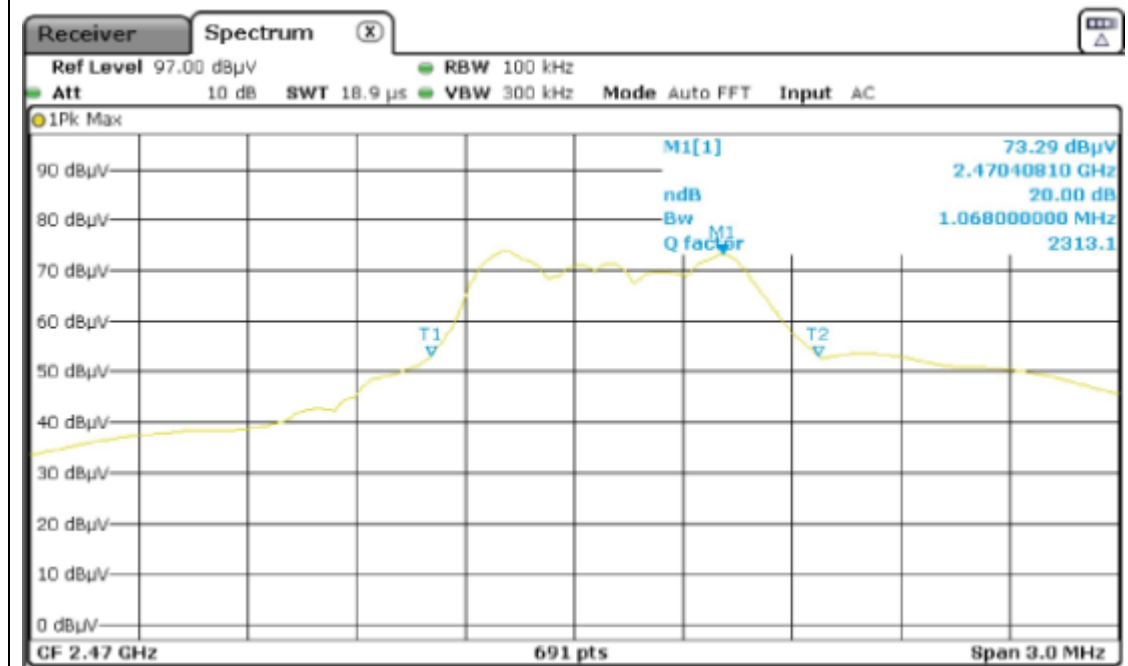




CH20



CH40





5. BAND EDGE EMISSION

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter open area test site. 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 1.5 m; 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. 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.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- f. 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.
- g Spectrum Setting : RBW= 1MHz, VBW=3MHz, Sweep time = Auto for peak
RBW= 1MHz, VBW=10Hz, Sweep time = Auto for average

Note:

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

5.1 DEVIATION FROM STANDARD

No deviation.

5.2 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.3 TEST RESULTS

Temperature :	25 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 12V
Test Mode :	CH01/CH12	Polarization :	Horizontal

	Frequency (MHz)	Antenna polarization (H/V)	Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission (dBuV/m)	Band edge Limit (dBuV/m)		Result
						PK	PK	AV	
GFSK	<2400	H	2390.00	34.15	13.83	47.98	74.00	54.00	Pass
	<2400	V	2390.00	34.22	13.83	48.05	74.00	54.00	Pass
	<2400	H	2400.00	33.75	13.85	47.60	74.00	54.00	Pass
	<2400	V	2400.00	34.06	13.85	47.91	74.00	54.00	Pass
	>2483.5	H	2483.50	34.24	14.02	48.26	74.00	54.00	Pass
	>2483.5	V	2483.50	34.50	14.02	48.52	74.00	54.00	Pass
	>2483.5	H	2485.50	34.43	14.04	48.47	74.00	54.00	Pass
	>2483.5	V	2485.50	34.31	14.04	48.35	74.00	54.00	Pass

If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



6. ANTENNA REQUIREMENT

6.1 STANDARD 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.

6.2 EUT ANTENNA

The EUT antenna is Internal Antenna. It complies with the standard requirement.

7. EUT TEST PHOTO

Radiated Measurement Photos



8. PHOTOS OF THE EUT

