



FCC TEST REPORT

Product : Beyond Tablet
Trade mark : Beyond Screen

Model/Type reference : BYM001

Serial Number : N/A

 Report Number
 : EED32J00028404

 FCC ID
 : 2AK5X-BM2897

Date of Issue : Mar.30, 2017

Test Standards : 47 CFR Part 15 Subpart C (2015)

Test result : PASS

Prepared for:

Beyond Screen Limited
Suite 307, Building 6, Fulltech Plaza, No. 33 North Guangshun Street,
Beijing, 100102, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Mar. 30, 2017

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Check No.: 1022560588









2 Version

Version No.	Date	Description
00	Mar. 30, 2017	Original

















































































3 Test Summary

Test Item	Test Requirement	Test method	Result
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
Radiated Emission	47 CFR Part 15 Subpart C Section 15.209; 15.225(a)(b)(c)(d)	ANSI C63.10-2013	PASS
Frequency Tolerance	47 CFR Part 15 Subpart C Section 15.225(e)	ANSI C63.10-2013	PASS
Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.215	ANSI C63.10-2013	PASS

Remark:

The tested sample and the sample information are provided by the client.





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-	ATED EMISSIONS						
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5 General Information

5.1 Client Information

Applicant:	Beyond Screen Limited
Address of Applicant:	Suite 307, Building 6, Fulltech Plaza, No. 33 North Guangshun Street, Beijing, 100102, China
Manufacturer:	Beyond Screen Limited
Address of Manufacturer:	Suite 307, Building 6, Fulltech Plaza, No. 33 North Guangshun Street, Beijing, 100102, China
Factory:	Shenzhen Han-Shine Electronic Co., Ltd.
Address of Factory:	No. 2, Lane 3, 2nd Industrial Park, Yulv Village, Gongming Town, Guangming New District, Shenzhen City, Guangdong Province, 518132, China

5.2 General Description of EUT

Product Name:	Beyond Tablet
Mode No.(EUT):	BYM001
Trade Mark:	Beyond Screen
EUT Supports Radios application:	Wlan 2.4GHz 802.11b/g/n(HT20&HT40), Bluetooth V3.0+EDR, BT 4.0 NFC(13.56MHz)
Power Supply:	MODEL: RS-200/120-S336 Adapter: INPUT: 100-240VAC, 50/60Hz, 1.5A Max OUTPUT: DC 12V=2A

5.3 Product Specification subjective to this standard

Carrier Frequency:	13.56MHz	
Modulation Type:	ASK	 -0
Antenna Gain:	0dBi	(A
Antenna Type and Gain:	Loop Antenna	(6)
Test voltage:	AC 120V, 60Hz	
Sample Received Date:	Mar. 02, 2017	
Sample tested Date:	Mar. 02, 2017 to Mar. 30, 2017	

5.4 Test Environment and Mode

Operating Environment:				
Temperature:	24 °C			
Humidity:	54 % RH	(20)		(2)
Atmospheric Pressure:	1010 mbar	6		6
Test mode:				
Transmitter mode:	Keep the EUT	in transmitting mo	de (NFC mode) with modulation	on.

5.5 Description of Support Units

The EUT has been tested independently.













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5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.

5.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 886427

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

IC-Registration No.: 7408A

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A.

IC-Registration No.: 7408B

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096. Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration

No.: C-4563.





Telecommunication Ports Conducted Disturbance Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

5.8 Deviation from Standards

None.

5.9 Abnormalities from Standard ConditionsNone.

5.10 Other Information Requested by the CustomerNone.

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
0	DE source conducted	0.31dB (30MHz-1GHz)
2	RF power, conducted	0.57dB (1GHz-18GHz)
0	Dedicted Couriers against test	4.5dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.8dB (1GHz-12.75GHz)
6	Conduction emission	3.6dB (9kHz to 150kHz)
4	Conduction emission	3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%











6 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	100009	06-16-2016	06-15-2017
Temperature/ Humidity Indicator	TAYLOR	1451	1905	04-27-2016	04-26-2017
LISN	R&S	ENV216	100098	06-16-2016	06-15-2017
LISN	schwarzbeck	NNLK8121	8121-529	06-16-2016	06-15-2017
Current Probe	R&S	EZ17	100106	06-16-2016	06-15-2017
ISN	TESEQ GmbH	ISN T800	30297	02-23-2017	02-22-2018

Conducted RF test					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	R&S	FSP40	100416	06-16-2016	06-15-2017
Receiver	R&S	ESCI	100435	06-16-2016	06-15-2017
Noise generator	Beijing daming jidian	DM1661	126001	04-01-2016	03-31-2017
Attenuator	HuaXiang	INMET64671	INMET64671	04-01-2016	03-31-2017
Signal Generator	Agilent	E4438C	MY45095744	04-01-2016	03-31-2017
Attenuator	HuaXiang	SHX370	15040701	04-01-2016	03-31-2017
Signal Generator	Keysight	E8257D	MY53401106	04-01-2016	03-31-2017
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002		01-11-2017	01-10-2018
High-pass filter	MICRO- TRONICS	SPA-F-63029-4		01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX01CA09C L12-0395-001		01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX01CA08C L12-0393-001		01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX02CA04C L12-0396-002		01-11-2017	01-10-2018































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	3M	Semi/full-anech	oic Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	TTE20130797	06-05-2016	06-05-2019
TRILOG Broadband Antenna	SCHWARZBEC K	VULB9163	9163-484	05-23-2016	05-22-2017
Microwave Preamplifier	Agilent	8449B	3008A02425	02-16-2017	02-15-2018
Horn Antenna	ETS-LINDGREN	3117	00057407	07-20-2015	07-18-2018
Loop Antenna	ETS	6502	00071730	07-30-2015	07-28-2017
Microwave Preamplifier	A.H.SYSTEMS	PAP-1840-60	6041.6042	06-30-2015	06-28-2018
Horn Antenna	A.H.SYSTEMS	SAS-574 374	374	06-30-2015	06-28-2018
Spectrum Analyzer	R&S	FSP40	100416	06-16-2016	06-15-2017
Receiver	R&S	ESCI	100435	06-16-2016	06-15-2017
LISN	schwarzbeck	NNBM8125	81251547	06-16-2016	06-15-2017
LISN	schwarzbeck	NNBM8125	81251548	06-16-2016	06-15-2017
Signal Generator	Agilent	E4438C	MY45095744	04-01-2016	03-31-2017
Signal Generator	Keysight	E8257D	MY53401106	04-01-2016	03-31-2017
Temperature/ Humidity Indicator	TAYLOR	1451	1905	04-27-2016	04-26-2017
Cable line	Fulai(7M)	SF106	5219/6A	01-11-2017	01-10-2018
Cable line	Fulai(6M)	SF106	5220/6A	01-11-2017	01-10-2018
Cable line	Fulai(3M)	SF106	5216/6A	01-11-2017	01-10-2018
Cable line	Fulai(3M)	SF106	5217/6A	01-11-2017	01-10-2018
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	TTF20120439	01-11-2017	01-10-2018
High-pass filter	MICRO- TRONICS	SPA-F-63029-4	003	01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX01CA09 CL12-0395-001	TTF20120434	01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX01CA08 CL12-0393-001	TTF20120435	01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX02CA04 CL12-0396-002	TTF20120436	01-11-2017	01-10-2018
band rejection filter	Sinoscite	FL5CX02CA03 CL12-0394-001	TTF20120437	01-11-2017	01-10-2018























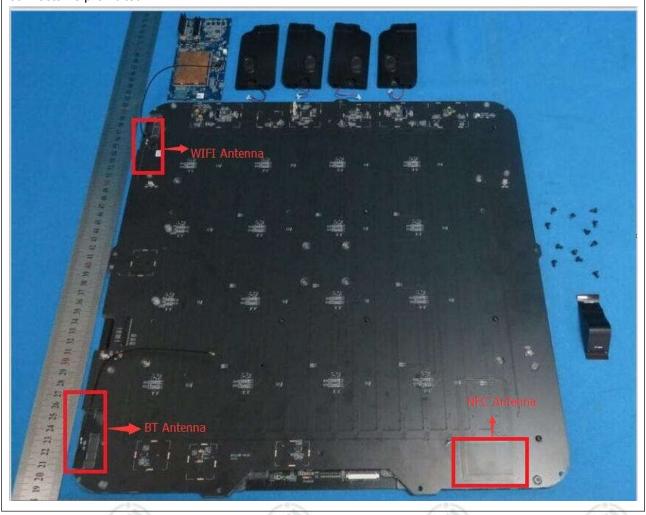
7 Test Result & Measurement Data

7.1 Antenna Requirement

Standard Requirement: 47 CFR Part 15C Section 15.203

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.





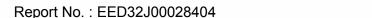












7.2 Conducted Emissions

Test Requirement: 47 CFR Part 15C Section 15.207

Test Method: ANSI C63.10-2013
Test Frequency Range: 150kHz to 30MHz



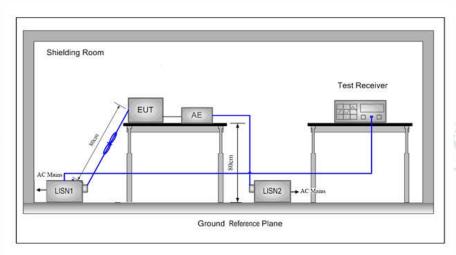
Test Procedure:

Fraguency range (MUT)	Limit (dBµV)			
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		

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- The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.





Test Mode:

Test Setup:

Transmitting mode

Instruments Used:

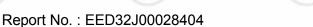
Refer to section 6 for details

Test Results:

Pass

^{*} Decreases with the logarithm of the frequency.





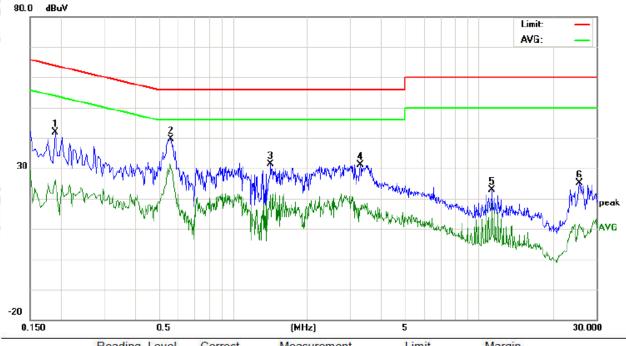
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Test Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



No.	Freq.	Freq. (dBuV)		evei	Factor	(dBuV)		(dBuV)		(dB)				
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1900	32.11	27.86	12.23	9.72	41.83	37.58	21.95	64.03	54.03	-26.45	-32.08	P	
2	0.5620	29.98	29.38	20.39	9.73	39.71	39.11	30.12	56.00	46.00	-16.89	-15.88	P	
3	1.4299	21.60	16.53	7.95	9.66	31.26	26.19	17.61	56.00	46.00	-29.81	-28.39	P	
4	3.2980	21.38	17.51	5.58	9.68	31.06	27.19	15.26	56.00	46.00	-28.81	-30.74	P	
5	11.2980	12.96	11.65	8.63	9.92	22.88	21.57	18.55	60.00	50.00	-38.43	-31.45	P	
6	25.7260	14.98	7.07	-3.00	10.18	25.16	17.25	7.18	60.00	50.00	-42.75	-42.82	Р	A





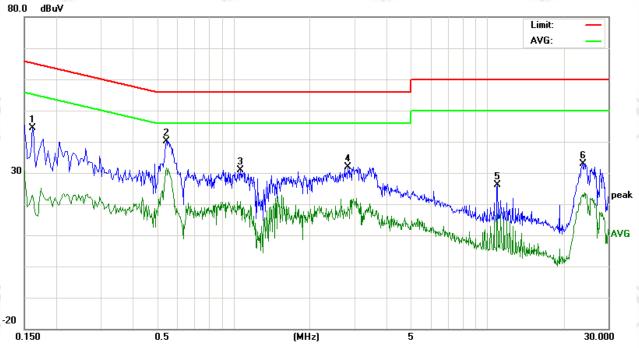






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Neutral Line:



No.	Freq.		ding_Le dBuV)	vel	Correct Factor	M	leasuren (dBuV)		0.725	nit uV)		rgin dB)		
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1620	34.59	30.81	13.96	9.75	44.34	40.56	23.71	65.36	55.36	-24.80	-31.65	P	
2	0.5460	30.48	28.71	20.56	9.73	40.21	38.44	30.29	56.00	46.00	-17.56	-15.71	Р	
3	1.0660	21.23	18.22	7.86	9.63	30.86	27.85	17.49	56.00	46.00	-28.15	-28.51	Р	
4	2.8340	22.27	17.49	7.49	9.69	31.96	27.18	17.18	56.00	46.00	-28.82	-28.82	Р	
5	10.9660	16.19	11.15	4.41	9.91	26.10	21.06	14.32	60.00	50.00	-38.94	-35.68	P	
6	23.7900	22.79	16.81	10.70	10.18	32.97	26.99	20.88	60.00	50.00	-33.01	-29.12	Р	

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. 13.56MHz is the Fundamental field strength of NFC. According to the 15.207, the limit is not apply.











7.3 Radiated Emissions

Test Requirement: 47 CFR Part 15 Subpart C Section 15.209; 15.225(a)(b)(c)(d)

Test Method: ANSI C63.10-2013

Test Site: 3m (Semi-Anechoic Chamber)

Requirements: (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not

exceed

15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength

of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength

of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz

band shall not exceed the general radiated emission limits in § 15.209.

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Quasi-peak	10kHz	30kHz	Peak
0.009MHz-0.090MHz	Quasi-peak	10kHz	30kHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Quasi-peak	10kHz	30kHz	Peak
0.110MHz-0.490MHz	Quasi-peak	10kHz	30kHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120 kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
Above 1GHZ	Peak	1MHz	10Hz	Average

Test Setup:

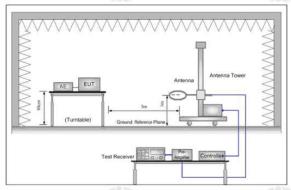


Figure 1. Below 30MHz

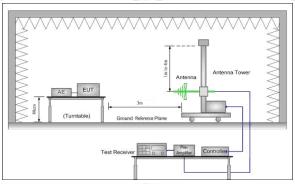


Figure 2. 30MHz to 1GHz













Test Procedure:







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1. The EUT is placed on a turntable, which is 0.8m above ground plane.

- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The limit 1.705MHz to 30MHz in clause 4.3 are specified at 30 meters, and measurements were made at 3 meters, the limit is translated to 3 meters by using a formula as follows:

Limit3m = Limit30m + 40log(30m/3)

8. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode: Transmitting mode

Instruments Used: Refer to section 6 for details

Test Result: Pass

1.705-30MHz

Mode

Test Procedure: For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.4: 2014, section 8.2.1. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.





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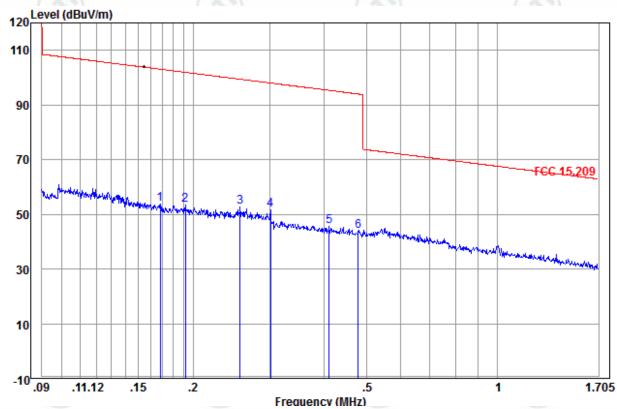




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Test data:

9 kHz-1.705MHz



Frequency (MHz)	Antenna_Factor (dB/m)	Cable_Loss (dB)	Read_Level (dBuV)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Polarization	Remark
0.127	20.26	0.11	33.45	53.82	103.07	-49.25	Х	QP
0.154	20.26	0.11	33.09	53.46	101.92	-48.46	X	QP
0.218	20.24	0.11	32.49	52.84	99.42	-46.58	Х	QP
0.254	20.24	0.11	31.19	51.54	98.02	-46.48	Х	QP
0.360	20.22	0.12	25.44	45.78	95.33	-49.55	X	QP
0.478	20.22	0.12	23.37	43.71	94.01	-50.30	Х	QP





















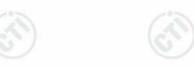






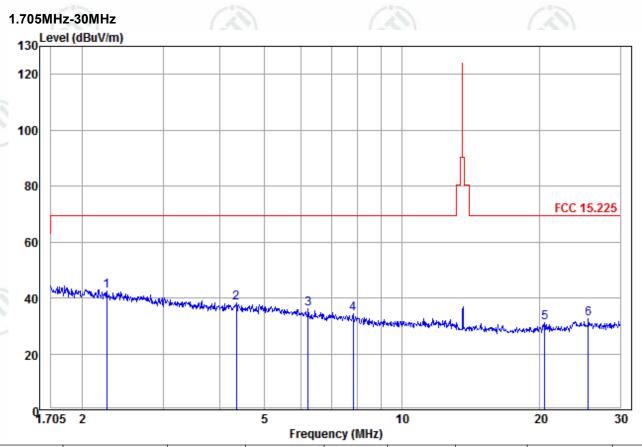








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Frequency (MHz)	Antenna_Factor (dB/m)	Cable_Loss (dB)	Read_Level (dBuV)	Level (dBuV/m)	Limit_Line (dBuV/m)	Over_Limit (dB)	Polarization	Remark
2.258	20.16	0.19	21.99	42.34	69.5	-27.16	X	QP
4.342	20.13	0.18	17.95	38.26	69.5	-31.24	Х	QP
6.232	20.11	0.30	15.71	36.12	69.5	-33.38	Х	QP
7.817	20.10	0.46	13.78	34.34	69.5	-35.16	X	QP
20.487	20.07	0.80	10.38	31.25	69.5	-38.25	X	QP
25.549	20.06	1.00	11.68	32.74	69.5	-36.76	Х	QP





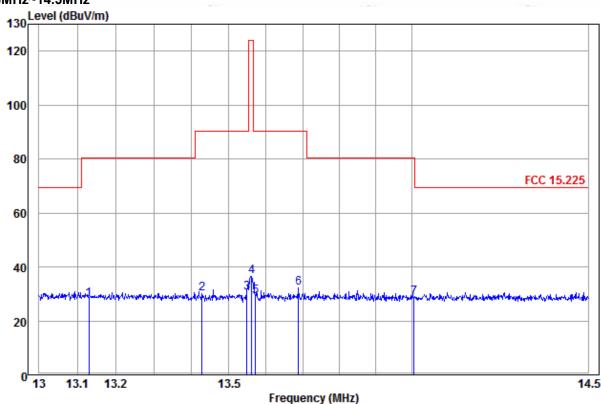






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13MHz~14.5MHz



						•				
		Ant	Cable	Read		Limit	0ver			
	Freq	Factor	Loss	Level	Level	Line	Limit	Pol/Phase	Remark	
-	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB			
		-			-					
1	13.130	10.77	0.68	16.70	28.15	80.50	-52.35	Vertical	QP	
2	13.429	10.75	0.68	18.58	30.01	90.40	-60.39	Vertical	QP	
3	13.549	10.75	0.68	18.99	30.42	90.40	-59.98	Vertical	QP	
4	13.561	10.75	0.69	24.93	36.37	123.90	-87.53	Vertical	QP	
5	13.572	10.75	0.69	17.67	29.11	90.40	-61.29	Vertical	QP	
6	13.689	10.75	0.69	20.62	32.06	90.40	-58.34	Vertical	QP	
7 рр	14.007	10.73	0.69	17.11	28.53	80.50	-51.97	Vertical	QP	

Remark: The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case X axis is shown in the report.





















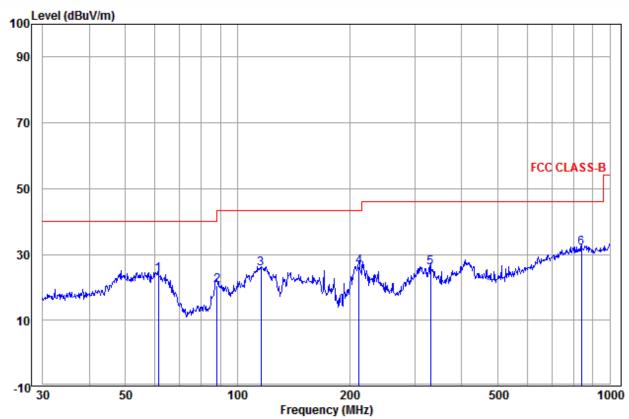








30MHz-1000MHz



		Ant	Cable	Read		Limit	Over		
	Freq	Factor	Loss	Level	Level	Line	Limit	Pol/Phase	Remark
								•	
-	MHz	dB/m	dB	dRuV	dRuV/m	dRuV/m	dB		
	11112	ub/ III	u D	abav	abav, iii	abav/ iii	u D		
4	64 346	42.24	4 43	0.44	22 05	40.00	46.45		OD.
1	61.346	13.31	1.43	9.11	23.85	40.00	-16.15	Horizontal	Q٢
2	88.033	10.71	1.59	8.23	20.53	43.50	-22.97	Horizontal	QP
3	115.726	11.94	1.57	12.12	25.63	43.50	-17.87	Horizontal	QP
4	212.270	11.81	2.25	12.12	26.18	43.50	-17.32	Horizontal	QP
5	330.195	14.31	2.59	9.20	26.10	46.00	-19.90	Horizontal	QP
6 рр	839.182	21.84	4.11	6.00	31.95	46.00	-14.05	Horizontal	QP







































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-	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	34.882	13.39	0.84	11.88	26.11	40.00	-13.89	Vertical	QP
2	47.326	14.88	1.19	12.09	28.16	40.00	-11.84	Vertical	QP
3	63.759	12.46	1.44	15.21	29.11	40.00	-10.89	Vertical	QP
4 pp	85.298	10.02	1.58	20.70	32.30	40.00	-7.70	Vertical	QP
5	117.773	11.79	1.57	21.10	34.46	43.50	-9.04	Vertical	QP
6	210.786	11.79	2.24	12.55	26.58	43.50	-16.92	Vertical	QP

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 + Antenna Factor + Cable Factor – Preamplifier Factor























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7.4 Frequency Tolerance

Test Requirement: 47 CFR Part 15 Subpart C Section 15.225(e)

Test Method: ANSI C63.10-2013

Operation within the band 13.110-14.010 MHz Frequency range:

The frequency tolerance of the carrier signal shall be maintained within +/-

0.01% of the operating frequency over a temperature variation of

-20 degrees to +50 degrees C at normal supply voltage, and for a variation Requirement:

in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the

equipment tests shall be performed using a new battery.

Test Mode: Transmitter mode

The EUT was placed in an environmental test chamber and powered such **Method of measurement:**

that control element received normal voltage and the transmitter provided

maximum RF output.

Instruments Used: Refer to section 6 for details

Test Result: Pass

Test Frequency: 13.	56MHz	(0,1)	Temp	perature:22℃
Supply Voltage (V)	Test Result (MHz)	Deviation (kHz)	Limit (kHz)	Result
12	13.56016	0.16	1.356	Pass

Test Frequency: 13.	Temp	erature:20℃		
Supply Voltage (V)	Test Result (MHz)	Deviation (kHz)	Limit (kHz)	Result
10.2	13.5602	0.2	1.356	Pass
11.1	13.5601	0.1	1.356	Pass
12.0	13.5601	0.1	1.356	Pass
12.9	13.5602	0.2	1.356	Pass
13.8	13.5602	0.2	1.356	Pass

est Frequency: 13	3.56MHz		Vo	ltage: 12V
Temperature (°C)	Test Result (MHz)	Deviation (kHz)	Limit (kHz)	Result
-20	13.5601	0.1	1.356	(8)
-10	13.5602	0.2	1.356	(e)
0	13.5601	0.1	1.356	
10	13.5605	0.5	1.356	Desc
20	13.5602	0.2	1.356	Pass
30	13.5601	0.1	1.356	8
40	13.5605	0.5	1.356	
50	13.5601	0.1	1.356	

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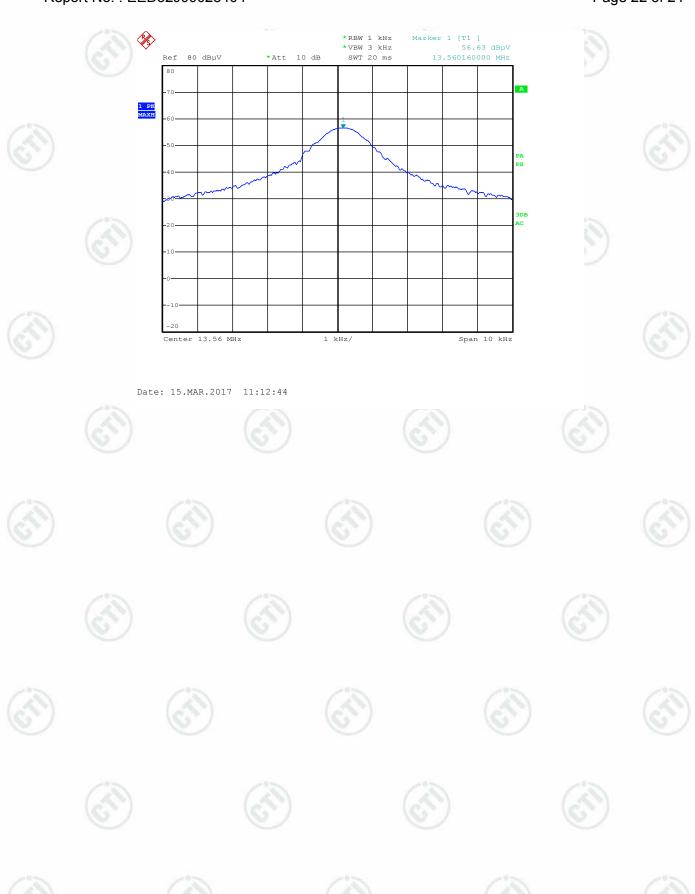








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7.5 Occupied Bandwidth

47 CFR Part 15C Section 15.215 (C) **Test Requirement:**

ANSI C63.10-2013 **Test Method:**

Frequency range: Operation within the band 13.110 - 14.010 MHz

> Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall

be.deomonstrated by measuring the radiated emissions.

Test Setup:

Requirement:

Spectrum Analyzer 888 ___ E.U.T Non-Conducted Table

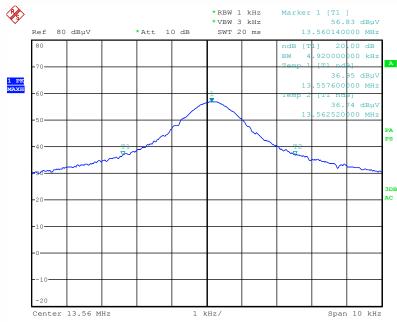
Ground Reference Plane

Test Mode: Transmitter mode

Refer to section 6 for details Instruments Used:

Test Result: Pass

The graph as below: represents the emissions take for this device.



Date: 15.MAR.2017 11:13:09

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*** End of Report ***

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