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Report Template Version: V03 Report Template Revision Date: Mar.1st, 2017

Test Report

Report No. : CQAS20190500396E-01

Applicant: DongGuan Mae Tay Electronic Co.,Ltd

- Address of Applicant: Beihuanlu Industrial Area, Changping Town Dongguan, Guangdong, China
- Manufacturer: DongGuan Mae Tay Electronic Co.,Ltd
- Address of Beihuanlu Industrial Area, Changping Town Dongguan, Guangdong, China Manufacturer:

Equipment Under Test (EUT):

Product:	Wireless Keyboad
Model No.:	DX-PNC2019
Brand Name:	N/A
FCC ID:	2AAIL-MD007
Standards:	47 CFR Part 15, Subpart C
Date of Test:	2019-05-30 to 2019-06-19
Date of Issue:	2019-06-19
Test Result :	PASS*

Tested By: (Daisy Qin) MM 1a **Reviewed By:** Aaron Ma) PPROV Approved By: ′ Jack Ai)

* In the configuration tested, the EUT complied with the standards specified above.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQAS20190500396E-01	Rev.01	Initial report	2019-06-19



3 Test Summary

Test Item FCC Test Requirement		Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10-2013	N/A
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10-2013	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency	47 CFR Part 15, Subpart C Section 15.249 (d), (e)/15.209	ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10-2013	PASS



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5 General Information

5.1 Client Information

Applicant:	DongGuan Mae Tay Electronic Co.,Ltd
Address of Applicant:	Beihuanlu Industrial Area, Changping Town Dongguan, Guangdong, China
Manufacturer:	DongGuan Mae Tay Electronic Co.,Ltd
Address of Manufacturer:	Beihuanlu Industrial Area, Changping Town Dongguan, Guangdong, China

5.2 General Description of EUT

Name:	Wireless Keyboard
Model No.:	DX-PNC2019
Trade Mark :	N/A
Frequency Range:	2408MHz ~ 2474MHz
Modulation Type:	FSK
Number of Channels:	34 (declared by the client)
Sample Type:	Portable product
Antenna Type:	PCB antenna
Antenna Gain:	3.2dBi
Power Supply:	DC1.5V (AA battery x 1)



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2408MHz	10	2426MHz	19	2444MHz	28	2462MHz
2	2410MHz	11	2428MHz	20	2446MHz	29	2464MHz
3	2412MHz	12	2430MHz	21	2448MHz	30	2466MHz
4	2414MHz	13	2432MHz	22	2450MHz	31	2468MHz
5	2416MHz	14	2434MHz	23	2452MHz	32	2470MHz
6	2418MHz	15	2436MHz	24	2454MHz	33	2472MHz
7	2420MHz	16	2438MHz	25	2456MHz	34	2474MHz
8	2422MHz	17	2440MHz	26	2458MHz	/	/
9	2424MHz	18	2442MHz	27	2460MHz	/	/

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(CH1)	2408MHz
The Middle channel(CH17)	2440MHz
The Highest channel(CH34)	2474MHz



5.3 Test Environment and Mode

Operating Environmen	Operating Environment:		
Temperature:	24.0 °C		
Humidity:	52 % RH		
Atmospheric Pressure:	1008 mbar		
Test Mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.		

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
/	/	/	/	/



5.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

No.	ltem	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	±5.12dB	(1)
2	Radiated Emission (Above 1GHz)	±4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	±3.34dB	(1)
4	Radio Frequency	3×10 ⁻⁸	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8 ℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	time	0.6 %.	(1)
14	Frequency Error	5.5 Hz	(1)

Hereafter the best measurement capability for CQA laboratory is reported:

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



5.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

5.7 Test Facility

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

• CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• ISED No.: 22984

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen 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 No.:522263

5.8 Deviation from Standards

None.

5.9 Abnormalities from Standard Conditions

None.

5.10 Other Information Requested by the Customer

None.



5.11 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2018/9/26	2019/9/25
Spectrum analyzer	R&S	FSU26	CQA-038	2018/10/28	2019/10/27
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2018/9/26	2019/9/25
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2018/11/2	2019/11/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2018/10/28	2020/10/27
Bilog Antenna	R&S	HL562	CQA-011	2018/9/26	2020/9/25
Horn Antenna	R&S	HF906	CQA-012	2018/9/26	2020/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2018/9/26	2020/9/25
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2018/9/26	2019/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2018/9/26	2019/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2018/9/26	2019/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2018/9/26	2019/9/25
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2018/9/26	2019/9/25

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



Test results and Measurement Data 6

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203;					
15.203 requirement:						
An intentional radiator sha	Il be designed to ensure that no antenna other than that furnished by the					
responsible party shall be an	used with the device. The use of a permanently attached antenna or of					
antenna that uses a uniqu unit	antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit					
so that a broken antenna	so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or					
electrical connector is pro	hibited.					
EUT Antenna:						
The antenna is integrated on the the antenna is 3.2dBi.	main PCB and no consideration of replacement. The best case gain of					

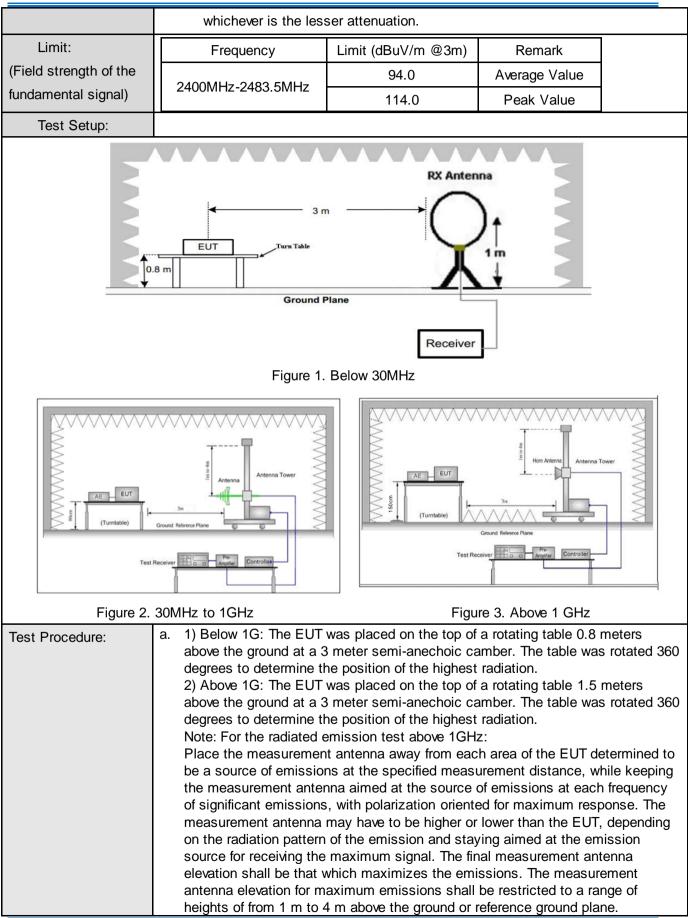


6.2 Radiated Spurious Emission & Field strength of fundamental

Test Requirement:	47 CFR Part 15C Section 15.249 (a), (d), (e) and 15.209						
Test Method:	ANSI C63.10						
Test Site:	Measurement Distance	: 3m (Semi-Anecł	noic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark		
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak		
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average		
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak		
	0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak		
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average		
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak		
	30MHz-1GHz	Quasi-peak	100 kHz	300KHz	Quasi-peak		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
		Peak	1MHz	10Hz	Average		
	Note: For fundamental PK value, RMS d	frequency, RBW= etector is for Aver		=5MHz, Pea	ak detector is	s for	
Limit: (Spurious Emissions and band edge)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurem t distance (
	0.009MHz- 0.490MHz	2400/F(kHz)	-	-	300		
	0.490MHz- 1.705MHz	24000/F(kHz)	-	-	30		
	1.705MHz-30MHz	30	-	-	30		
	30MHz-88MHz	100	40.0	Quasi-pea	k 3		
	88MHz-216MHz	150	43.5	Quasi-pea	k 3		
	216MHz-960MHz	200	46.0	Quasi-pea	k 3		
	960MHz-1GHz 500 54.0 Quasi-peak 3						
	Above 1GHz 500 54.0 Average 3						
	Note: 1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.						
	2) 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 te	o the general radia	ated emission	limits in See	ction 15.209,		



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	 b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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, the middle channel, the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Te Mode:	st Transmitting with FSK at lowest, middle and highest channel.
Final Test Mode:	Pretest the EUT at Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the highest channel. Only the worst case is recorded in the report.
Test Voltage:	DC1.5V
Test Results:	Pass



Measurement Data

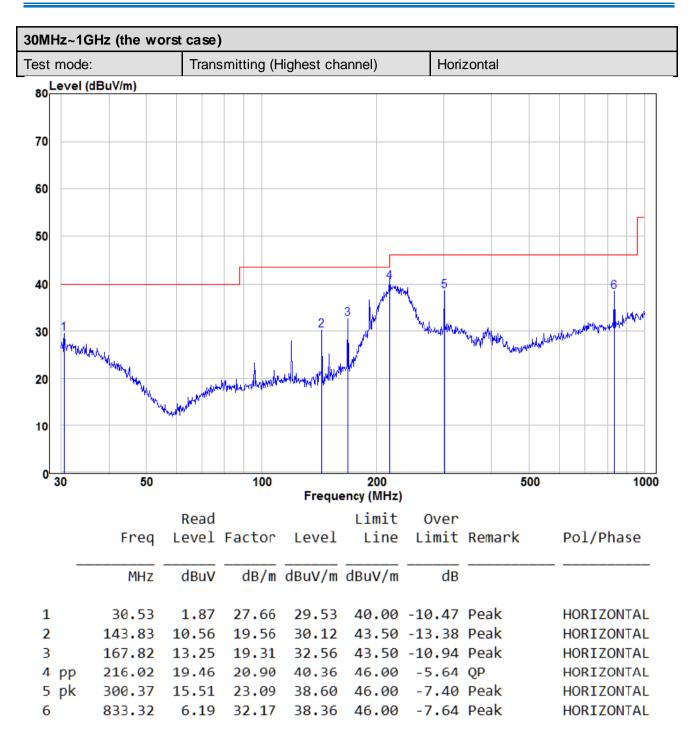
_	Meter	- <i>i</i>	Emission	1.1.14	0		Ant. Pol.
Frequency	Reading	Factor	Level	Limits	Over	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2408	94.71	-9.02	85.69	114	-28.31	Peak	н
2408	93.83	-9.02	84.81	94	-9.19	AVG	н
2408	84.05	-9.02	75.03	114	-38.97	Peak	V
2408	83.24	-9.02	74.22	94	-19.78	AVG	V
2440	95.91	-8.96	86.95	114	-27.05	Peak	н
2440	95.05	-8.96	86.09	94	-7.91	AVG	Н
2440	85.34	-8.96	76.38	114	-37.62	Peak	V
2440	84.57	-8.96	75.61	94	-18.39	AVG	V
2474	97.51	-8.74	88.77	114	-25.23	Peak	Н
2474	96.65	-8.74	87.91	94	-6.09	AVG	н
2474	83.53	-8.74	74.79	114	-39.21	Peak	V
2474	92.69	-8.74	83.95	94	-10.05	AVG	V

Field Strength Of The Fundamental Signal



Spurious Emissions 30MHz~1GHz (the worst case) Transmitting (Highest channel) Vertical Test mode: 80 Level (dBuV/m) 70 60 50 40 5 30 Wint 20 10 0 30 50 100 200 500 1000 Frequency (MHz) Limit Read **Over** Pol/Phase Level Factor Level Limit Remark Freq Line dB/m dBuV/m dBuV/m MHZ dBuV dB 1 31.51 1.91 27.56 29.47 40.00 -10.53 Peak HORIZONTAL 2 52.76 9.23 17.04 26.27 40.00 -13.73 Peak HORIZONTAL 21.21 27.22 46.00 -18.78 Peak 3 224.52 6.01 HORIZONTAL 4 300.37 3.03 23.09 26.12 46.00 -19.88 Peak HORIZONTAL 5 580.70 1.49 29.25 30.74 46.00 -15.26 Peak HORIZONTAL 38.61 46.00 -7.39 Peak 6 pp 833.32 6.44 32.17 HORIZONTAL







Above 1GHz							
Test mode:	Test mode: Transmitting			Test chann	nel:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4816	60.3	-1.24	59.06	74	-14.94	Peak	Н
4816	45.09	-1.24	43.85	54	-10.15	AVG	Н
7224	47.55	5.98	53.53	74	-20.47	Peak	Н
7224	36.72	5.98	42.70	54	-11.30	AVG	Н
4816	52.89	-1.24	51.65	74	-22.35	peak	V
4816	38.05	-1.24	36.81	54	-17.19	AVG	V
7224	47.19	5.98	53.17	74	-20.83	peak	V
7224	36.64	5.98	42.62	54	-11.38	AVG	V
Test mode:		Transmitti	ng	Test chann	nel:	Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4880	60.31	-0.82	59.49	74	-14.51	peak	Н
4880	45.77	-0.82	44.95	54	-9.05	AVG	Н
7320	47.75	5.91	53.66	74	-20.34	peak	Н
7320	36.68	5.91	42.59	54	-11.41	AVG	Н
4880	53.09	-0.82	52.27	74	-21.73	peak	V
4880	40.49	-0.82	39.67	54	-14.33	AVG	V
7320	47.2	5.91	53.11	74	-20.89	peak	V
7320	36.87	5.91	42.78	54	-11.22	AVG	V
Test mode:		Transmitti	ng	Test chann	nel:	Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4948	60.08	-0.49	59.59	74	-14.41	peak	Н
4948	47.21	-0.49	46.72	54	-7.28	AVG	Н
7422	47.19	5.74	52.93	74	-21.07	peak	Н
7422	36.54	5.74	42.28	54	-11.72	AVG	Н
4948	49.69	-0.49	49.20	74	-24.80	peak	V
4948	37.51	-0.49	37.02	54	-16.98	AVG	V
7422	47.01	5.74	52.75	74	-21.25	peak	V
7422	36.03	5.74	41.77	54	-12.23	AVG	V



Remark:

- 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
- 2) Scan from 9kHz to 25GHz, The disturbance above 10GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



6.3 Restricted bands around fundamental frequency

Test Requirement: Test Method: Test Site:

Limit(Band Edge):

47 CFR Part 15C Section 15.249 (d), 15.209 and 15.205; ANSI C63.10 :2013 Measurement Distance: 3m (Semi-Anechoic Chamber) 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 Section 15.209, whichever is the lesser attenuation.

Frequency	Limit (dBµV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
ADOVE IGHZ	74.0	Peak Value

Test Setup:

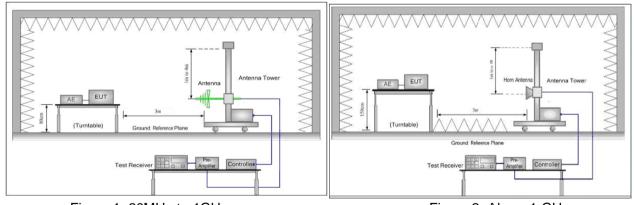


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

Below 1GHz test procedure as below:

- . The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- k. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- I. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- m. 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.

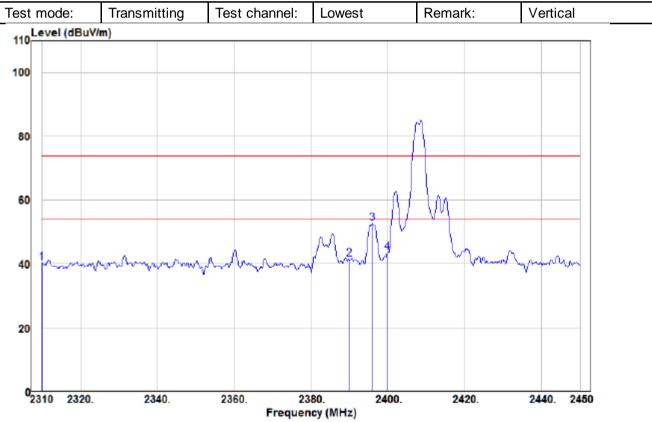


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	 The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	o. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values 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.
	Above 1GHz test procedure as below:
	p. Different between above is the test site, change from Semi-Anechoic
	Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
	q. Test the EUT in the lowest channel, the Highest channel
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
	s. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting with FSK at lowest, middle and highest channel.
Test Voltage:	DC1.5V
Test Results:	Pass

Test plot as follows:

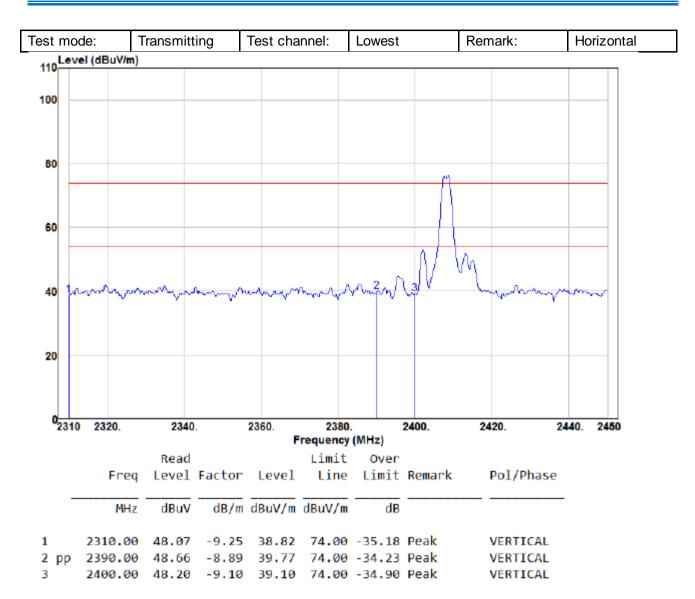




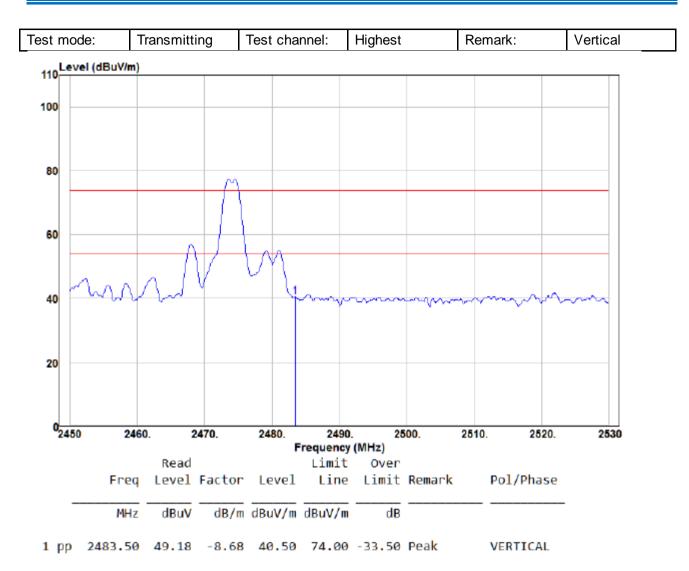
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	Freq	Read Level	Factor	Level	Limit Line		Remark	Pol/Phase
-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 2	2310.00 2390.00	50.35	-8.89	41.46	74.00	-32.54	Peak	HORIZONTAL HORIZONTAL
зрр 4	2395.96 2400.00							HORIZONTAL HORIZONTAL

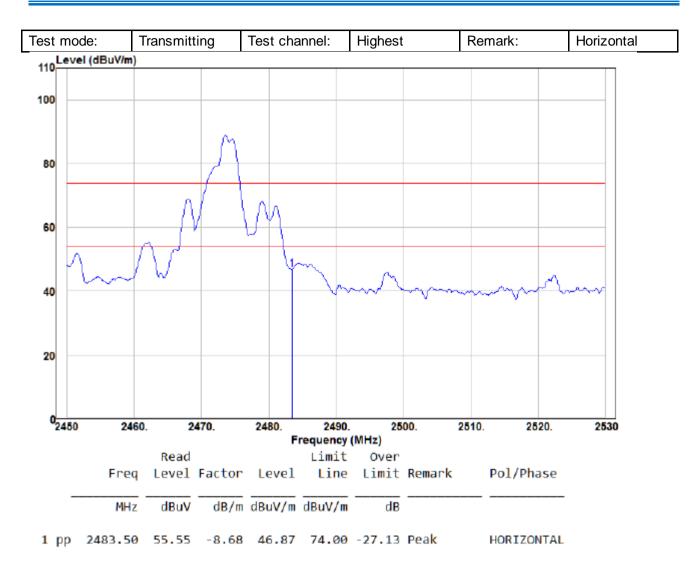












Remark:

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 - Correct Factor

Correct Factor = Preamplifier Factor-Antenna Factor-Cable Factor



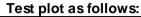
6.4 20dB Bandwidth

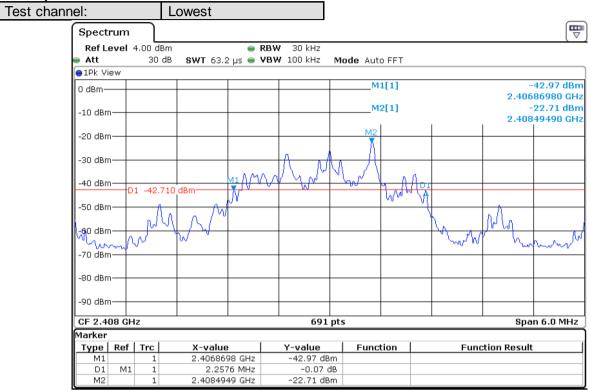
Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Mode:	Transmitting with FSK at lowest, middle and highest channel.
Limit:	N/A
Test Results:	Pass

Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	2.2576	Pass
Middle	2.2489	Pass
Highest	2.2489	Pass









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