

FCC Radio Test Report FCC ID: O3L-PT-81L001

This report concerns (check one) : Original Grant Class I Change

Issued Date : May 30, 2008 **Project No.** : R0805002

Equipment: 2.4G Wireless Keyboard(Fiji 2.4G)

Model Name: PT-81L001

Applicant : Paten Wireless Technology Inc.

Address: 8F, No. 407, Rueiguang Road, Neihu,

Taipei 114, Taiwan, R.O.C.

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Test:

May 16, 2008 ~ May 19, 2008

Testing Engineer

(Rush Kao)

Technical Manager

(Jeff Yang)

Authorized Signatory

NEUTRON ENGINEERING

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Lab Code: 200145-0







Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Neutron's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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1. CERTIFICATION

Equipment: 2.4G Wireless Keyboard(Fiji 2.4G)

Brand Name: Paten Model No.: PT-81L001

Applicant: Paten Wireless Technology Inc. Data of Test: May 16, 2008 ~ May 19, 2008 Test Item: ENGINEERING SAMPLE

Standards: FCC Part15, Subpart C(15.249) / RSS-210: 2004/ ANCI C63.4: 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-R0805002) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15, Subpart C					
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	N/A				
15.209 15.249	Radiated Spurious Emission	PASS				

NOTE:

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

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **OS01** at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan.

Neutron's test firm number is 95335

2.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U,(dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range Ant. H / V U, (dB)		NOTE	
OS-01	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Η	3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	Η	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	Н	2.66	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	2.4G Wireless Keyboard(Fiji 2.4G)			
Brand Name	Paten			
Model No.	PT-81L001			
OEM Brand/Model No.	N/A			
Model Difference	N/A			
Product Description	The EUT is a 2.4G Wireless Keyboard(Fiji 2.4G). Operation Frequency: 2402~2470MHz Modulation Type: GFSK Number Of Channel 16CH Antenna Designation: Integral Antenna(Printed) Antenna Gain(Peak) 0.2dBi Average Output Power: 93.27dBuV/m (Max.) 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	Battery supplied			
Power Rating	DC I/P 3V (AAA Battery x 2)			
Connecting I/O Port(s)	Please refer to the User's Manual			
Products Covered	NA			

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)	Channel	Frequency (MHz)
	01	2402	05	2405	09	2408	13	2411
	02	2432	06	2435	10	2439	14	2441
	03	2470	07	2468	11	2465	15	2462
	04	2415	08	2444	12	2418	16	2459

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3.2 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 possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	CH01
Mode 2	CH10
Mode 3	CH03

For Radiated Test				
Final Test Mode	Description			
Mode 1	CH01			
Mode 2	CH10			
Mode 3	CH03			

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MEUTRUM	Neutron Engineering inc.
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION	I OF SYSTEM TESTED
E-1 EUT	

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3.4 DESCRIPTION OF SUPPORT UNITS

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.

Iter	n Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-	2.4G Wireless Keyboard(Fiji 2.4G)	Paten	PT-81L001	O3L-PT-81L001	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
	N/A	N/A	N/A	

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 <code>[Length]</code> column.

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4. EMC EMISSION TEST

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 RADIATED EMISSION LIMITS (FCC 15.209)

requencies (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

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other 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 comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

FREQUENCY (MHz)	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
TINEQUEINOT (IVII IZ)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

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

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC Part 15.249)

FCC Part15 (15.249), Subpart C						
Limit	Frequency Range (MHz)					
Field strength of fundamental 50000 μV/m (94 dBμV/m) @ 3 m	2400-2483.5					
Field strength of harmonics 500 μV/m (54 dBμV/m) @ 3 m	Above 2483.5					

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4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3176	Apr. 11, 2009
2	Test Cable	N/A	10M_OS01	N/A	Oct. 10, 2008
3	Test Cable	N/A	OS01-1/-2	N/A	Oct. 10, 2008
4	Pre-Amplifier	Anritsu	MH648A(OS01)	M09961	Oct. 10, 2008
5	Test Receiver	MEB	SMV41	130	Jun. 21, 2008
6	EMI Test Receiver	R&S	ESCI	100082	Mar. 08, 2009
7	Turn Table	Chance Most	CMTB-1.5	N/A	N/A

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.1.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m 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 0.8 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. 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.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

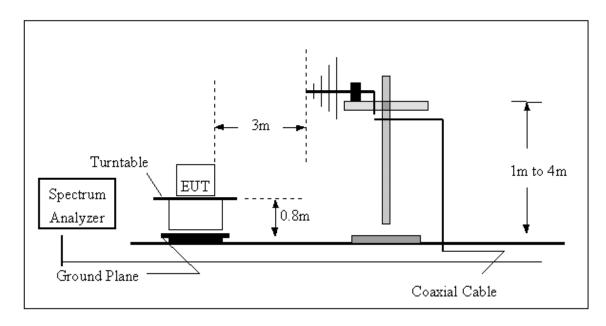
No deviation

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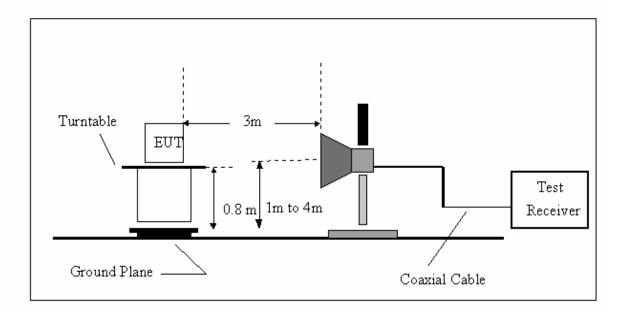


4.1.5 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.1.6 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.

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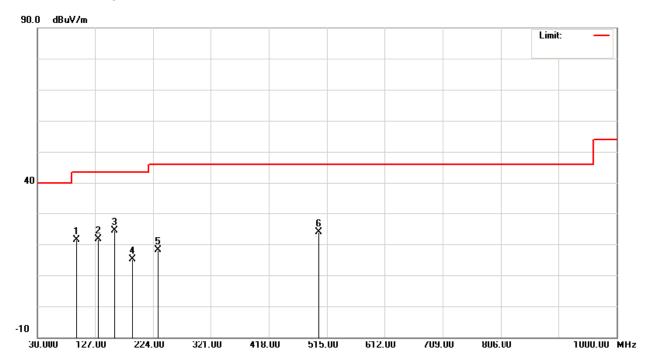
4.1.7 TEST RESULTS (Between 30 - 1000 MHz)

EUT:	2.4G Wireless Keyboard(Fiji 2.4G)	Model No. :	PT-81L001
Temperature:	24 ℃	Relative Humidity:	58%
Pressure:	1016hPa	Test Power :	DC 3V
Test Mode :	CH10		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
95.96	V	33.47	-12.10	21.37	43.50	- 22.13	
132.82	V	30.61	-8.99	21.62	43.50	- 21.88	
159.98	V	32.08	-7.71	24.37	43.50	- 19.13	
189.08	V	25.25	-10.22	15.03	43.50	- 28.47	
231.76	V	28.19	-9.94	18.25	46.00	- 27.75	
501.42	V	26.78	-2.94	23.84	46.00	- 22.16	

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m l}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m o}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission •
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



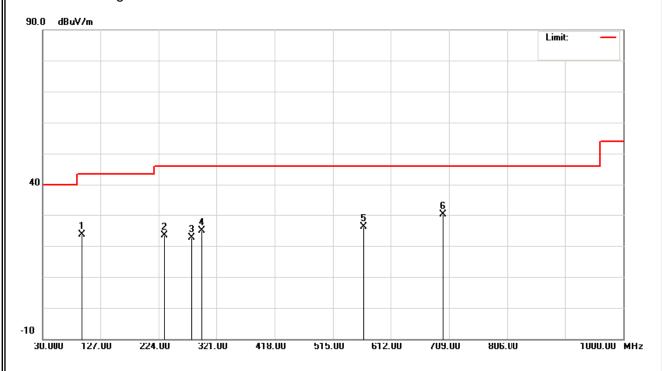
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	2.4G Wireless Keyboard(Fiji 2.4G)	Model No. :	PT-81L001
Temperature:	24 ℃	Relative Humidity:	58%
Pressure:	1016hPa	Test Power :	DC 3V
Test Mode :	CH10		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	14010
95.96	Ι	35.72	-12.10	23.62	43.50	- 19.88	
233.70	Ι	33.18	-9.84	23.34	46.00	- 22.66	
278.32	Ι	31.10	-8.35	22.75	46.00	- 23.25	
295.78	Ι	32.81	-7.88	24.93	46.00	- 21.07	
567.38	Ι	27.59	-1.39	26.20	46.00	- 19.80	
699.30	Ι	29.05	1.19	30.24	46.00	- 15.76	

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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4.1.8 TEST RESULTS (Above 1000 MHz)

	2.4G Wireless Keyboard(Fiji 2.4G)	Model No. :	PT-81L001
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Power :	DC 3V
Test Mode :	CH01		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	21.21	12.56	32.24	53.45	44.80	74.00	54.00	X/E
2402.10	V								X/F
4804.04	V	49.61	46.31	3.39	53.00	49.70	74.00	54.00	X/H
7206.12	V	47.81	42.84	8.92	56.73	51.76	74.00	54.00	X/H

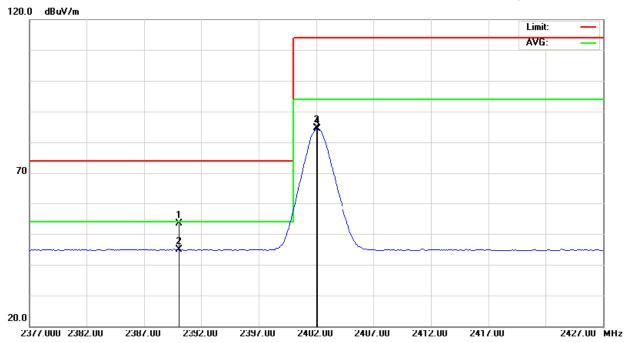
Remark:

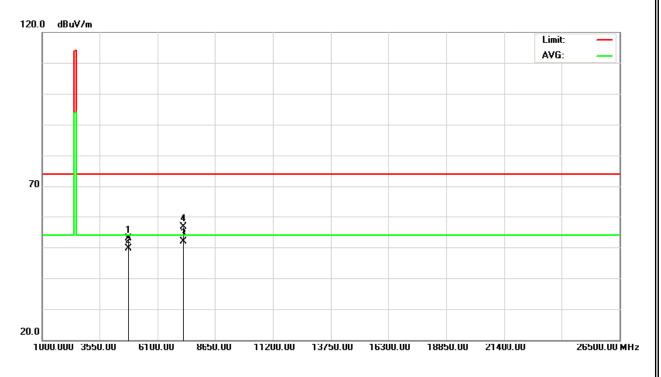
- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

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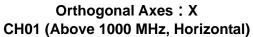
	2.4G Wireless Keyboard(Fiji 2.4G)	Model No. :	PT-81L001
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Power :	DC 3V
Test Mode :	CH01		

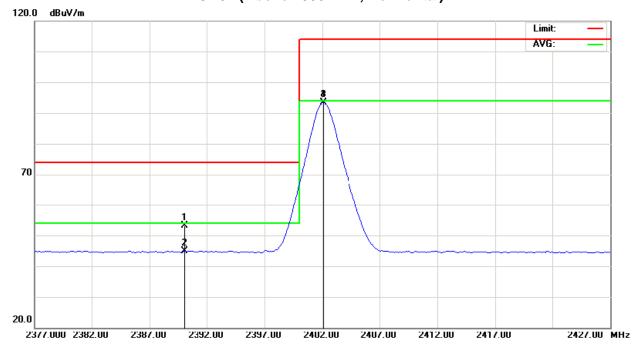
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	20.78	12.65	32.24	53.02	44.89	74.00	54.00	X/E
2402.00	Н								X/F
4804.04	Н	50.19	47.39	3.39	53.58	50.78	74.00	54.00	X/H
7206.20	Н	48.06	42.76	8.92	56.98	51.68	74.00	54.00	X/H

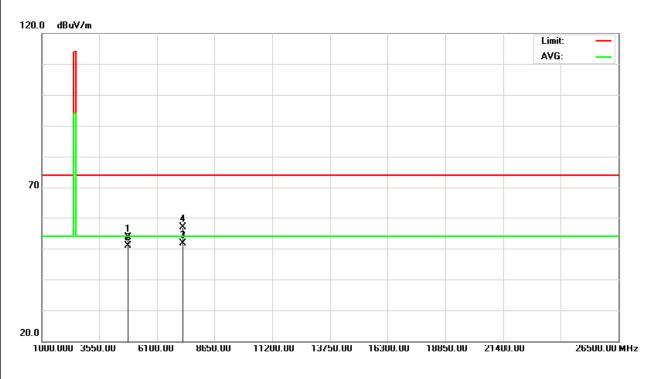
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

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EUT:	2.4G Wireless Keyboard(Fiji 2.4G)	Model No. :	PT-81L001
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Power :	DC 3V
Test Mode :	CH10		

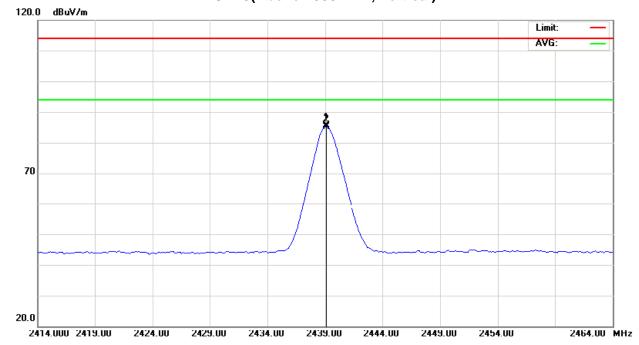
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2439.10	٧								X/F
4878.04	V	50.23	46.56	3.68	53.91	50.24	74.00	54.00	X/H
7317.16	V	48.52	43.21	9.18	57.70	52.39	74.00	54.00	X/H

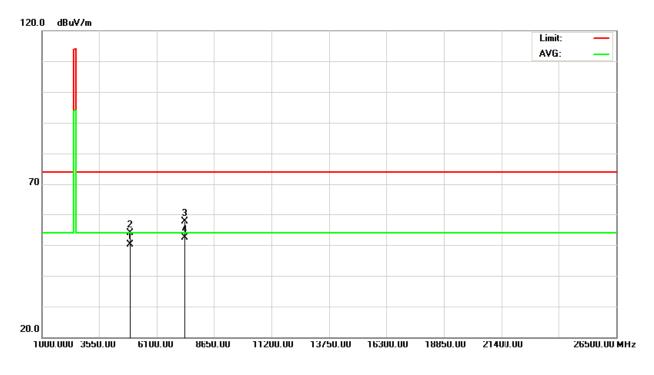
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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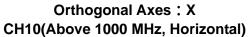
EUT:	2.4G Wireless Keyboard(Fiji 2.4G)	Model No. :	PT-81L001
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Power :	DC 3V
Test Mode :	CH10		

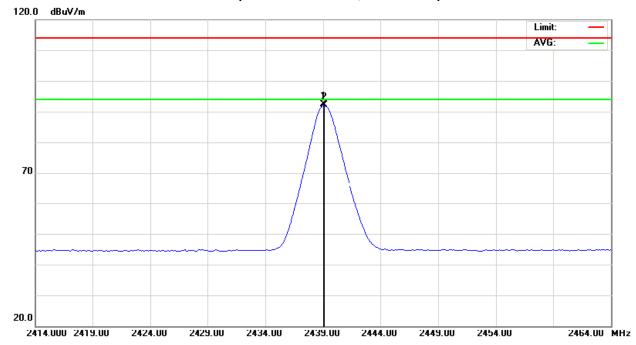
Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2439.10	Н								X/F
4878.06	Н	51.06	48.00	3.68	54.74	51.68	74.00	54.00	X/H
7317.18	Н	48.88	43.78	9.18	58.06	52.96	74.00	54.00	X/H

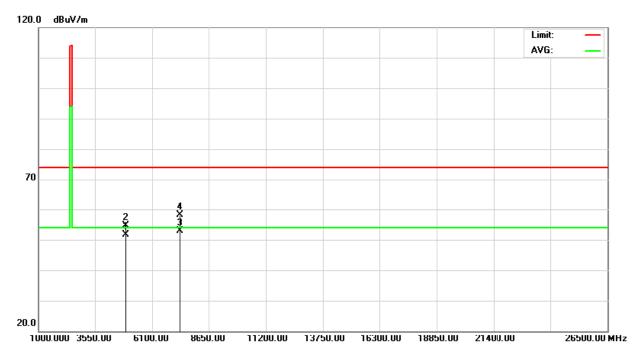
- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}^{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

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EUT:	2.4G Wireless Keyboard(Fiji 2.4G)	Model No. :	PT-81L001
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Power :	DC 3V
Test Mode :	CH03		

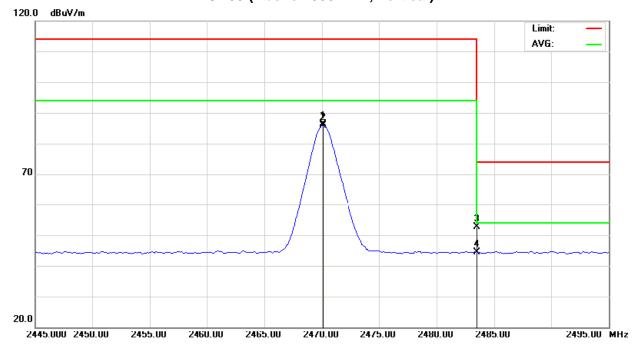
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2470.10	V								X/F
2483.50	V	20.13	11.87	32.59	52.72	44.46	74.00	54.00	X/E
4940.00	V	49.34	45.81	3.93	53.27	49.74	74.00	54.00	X/H
7410.00	V	48.92	43.15	9.39	58.31	52.54	74.00	54.00	X/H

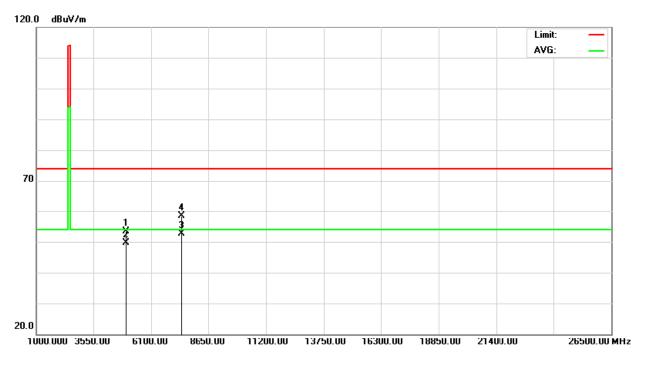
- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

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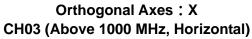
EUT:	2.4G Wireless Keyboard(Fiji 2.4G)	Model No. :	PT-81L001
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Power :	DC 3V
Test Mode :	CH03		

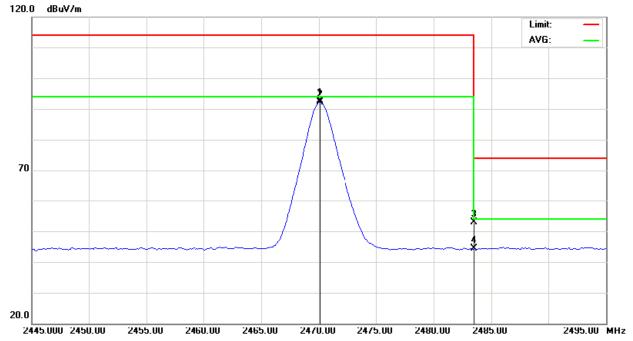
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2470.10	Н								X/F
2483.50	Н	20.18	11.67	32.59	52.77	44.26	74.00	54.00	X/E
4940.11	Н	50.03	47.13	3.93	53.96	51.06	74.00	54.00	X/H
7410.01	Н	49.36	42.74	9.39	58.75	52.13	74.00	54.00	X/H

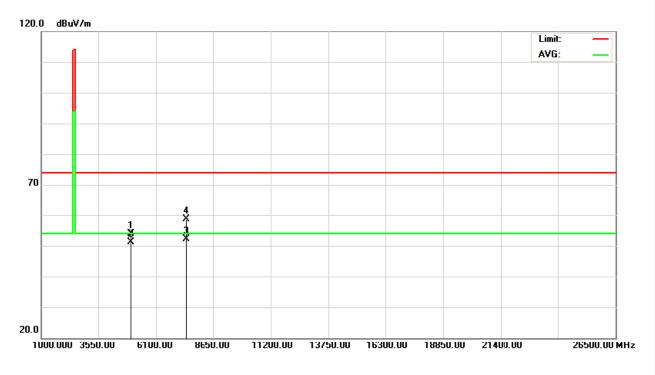
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

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4.1.9 TEST RESULTS (2400 - 2483.5 MHz)

IP [] [2.4G Wireless Keyboard(Fiji 2.4G)	Model No. :	PT-81L001
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Power :	DC 3V
Test Mode :	TX CH01/CH10/CH03		

Freq.	Ant.Pol.	Reading		Ant./CF	Actual FS		Lim	it3m	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	(H/V)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2402.10	V	52.47	52.14	32.28	84.75	84.42	114.00	94.00	CH01
2402.10	Н	61.19	60.99	32.28	93.47	93.27	114.00	94.00	CH01
2439.10	V	53.18	52.83	32.42	85.60	85.25	114.00	94.00	CH10
2439.10	Н	59.89	59.69	32.42	92.31	92.11	114.00	94.00	CH10
2470.10	V	53.95	53.31	32.54	86.49	85.85	114.00	94.00	CH03
2470.10	Н	59.97	59.66	32.54	92.51	92.20	114.00	94.00	CH03

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (3) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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4.1.10 TEST RESULTS (Restricted Bands Requirements)

EUT:	2.4G Wireless Keyboard(Fiji 2.4G)	Model No. :	PT-81L001
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Power :	DC 3V
Test Mode :	TX CH01/CH03(Vertical)		
Note:	The emission of the carrier radial AV) as following: 1. The transmitter was then conto transmit at the lowest chain measured at 2310-2390 MH: 2. The transmitter was configur transmit at the highest channessured at 2483.5-2500 M 3. The band edge emission plobetween carrier maximum por the emission of carrier strendum 4.1. is 83.31dBuV/m(Peak) astrength in 2400MHz is 83.3 dBuV/m limit, and 82.21-41.6	nfigured with the wornnel (CH01). Then the case of the content of	st case antenna and setup ne field strength was se antenna and setup to field strength was ge 34 shows 41.66dB delta num emission in 2400MHz. sult of channel 1 at the item /), so the maximum field /m which is under 74

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	21.21	12.56	32.24	53.45	44.80	74.00	54.00	CH01
2483.50	V	20.13	11.87	32.59	52.72	44.46	74.00	54.00	CH03

Remark:

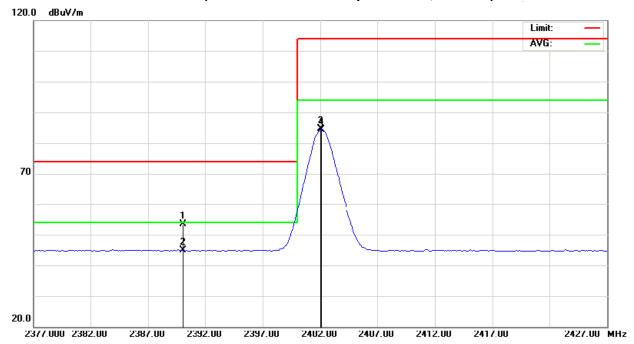
- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (2) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

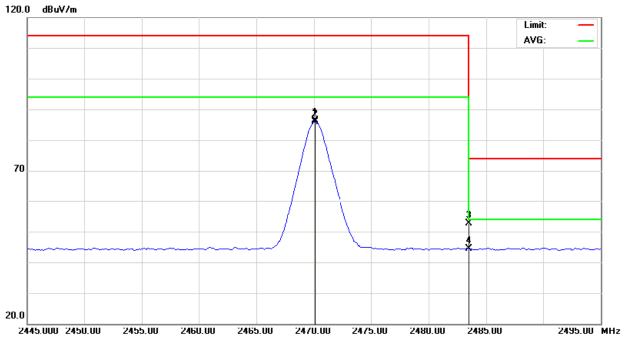
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TX CH03 (Restricted Bands Requirements, Vertical)



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EUT:	2.4G Wireless Keyboard(Fiji 2.4G)	Model No. :	PT-81L001
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Power :	DC 3V
Test Mode :	TX CH01/CH03 (Horizontal)		
Note:	The emission of the carrier radial AV) as following: 1. The transmitter was then conto transmit at the lowest charmeasured at 2310-2390 MH: 2. The transmitter was configur transmit at the highest charmeasured at 2483.5-2500 M 3. The band edge emission plobetween carrier maximum por The emission of carrier strends. 1 is 87.54dBuV/m(Peak) astrength in 2400MHz is 87.54dBuV/m limit, and 86.53-42.	nfigured with the wornnel (CH01). Then the case with the worst case let (CH03). Then the Hz. It on the following page ower and local maxing the list in the test researed 86.43dBuV/m(AV4-42.11=45.43dBuV/m(AV4-42.11=45.43dBuV/m)	st case antenna and setup ne field strength was se antenna and setup to field strength was ge 34 shows 42.11dB delta num emission in 2400MHz. sult of channel 1 at the item //), so the maximum field m which is under 74

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	20.78	12.65	32.24	53.02	44.89	74.00	54.00	CH01
2483.50	Н	20.18	11.67	32.59	52.77	44.26	74.00	54.00	CH03

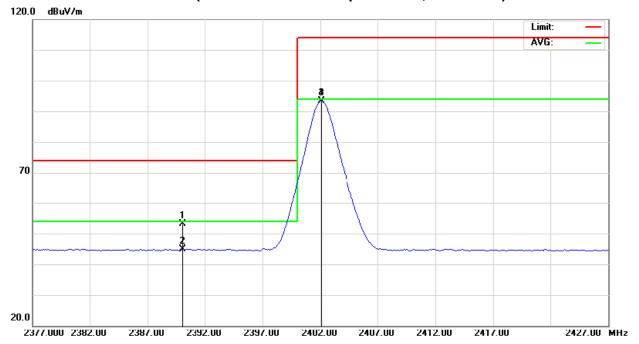
- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission $\,^\circ$
- (2) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

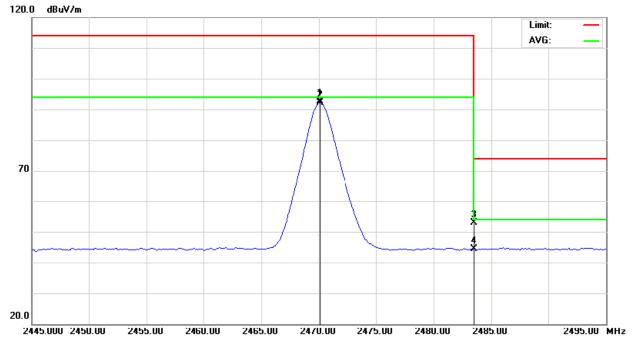
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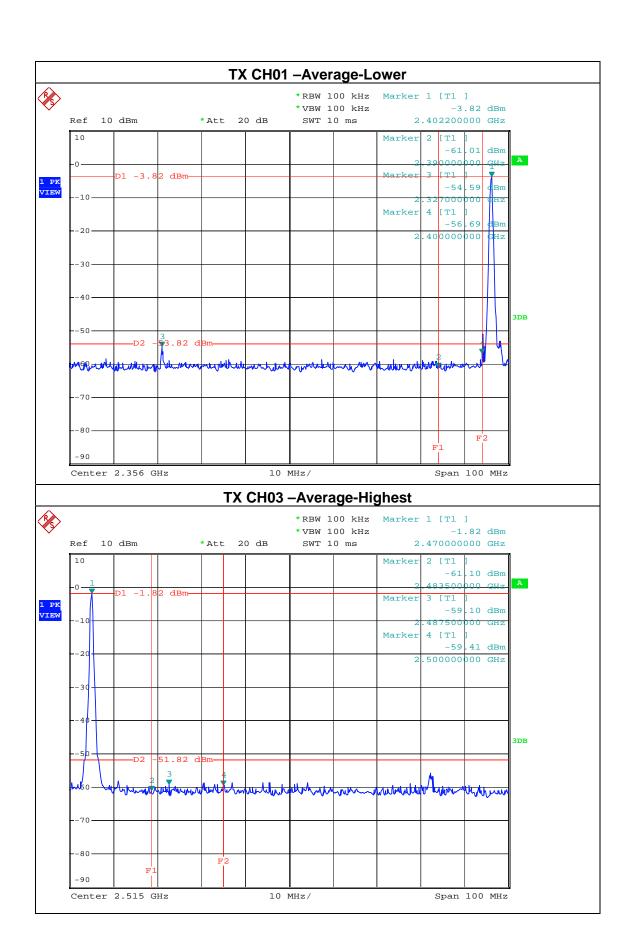


TX CH03 (Restricted Bands Requirements, Horizontal)



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5. EUT TEST PHOTO

Radiated Measurement Photos





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