



FCC RADIO TEST REPORT

FCC ID:2ABDB-T8K

Product : Touchpad mini wireless Keyboard

Trade Name : N/A

Model Name : T8

Serial Model : N/A

Report No. : NTEK-2015NT04075052F

Prepared for

SHENZHEN SUNGI TECHNOLOGY CO.,LTD.

4F,20th BLD,Xiaweyuan,Gushu,Bao'an district,Shenzhen,China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : SHENZHEN SUNGI TECHNOLOGY CO.,LTD.

Address : 4F,20th BLD,Xiaweiyuan,Gushu,Bao'an district,Shenzhen,China

Manufacture's Name..... : SHENZHEN SUNGI TECHNOLOGY CO.,LTD.

Address : 4F,20th BLD,Xiaweiyuan,Gushu,Bao'an district,Shenzhen,China

Product description

Product name : Touchpad mini wireless Keyboard

Model and/or type reference : T8

Serial Model : N/A

Rating(s) : DC 3.7V

Standards : FCC Part15.249 April 29. 2016

Test procedure ANSI C63.10-2013

This device described above has been tested by NTEK, 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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Date of Test :

Date (s) of performance of tests : 07 Apr. 2016 ~29 Apr. 2016

Date of Issue..... : 29 Apr. 2016

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

Testing Engineer :



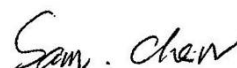
(Susan Su)

Technical Manager :



(Jason Chen)

Authorized Signatory :



(Sam Chen)

Table of Contents	Page
1 . SUMMARY OF TEST RESULTS	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	8
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	9
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	10
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	11
3 . ANTENNA REQUIREMENT	12
3.1 STANDARD REQUIREMENT	12
3.2 EUT ANTENNA	12
3.3 CONDUCTED EMISSION MEASUREMENT	13
3.3.1 POWER LINE CONDUCTED EMISSION LIMITS	13
3.3.2 TEST PROCEDURE	14
3.3.3 DEVIATION FROM TEST STANDARD	14
3.3.4 TEST SETUP	14
3.2.5 TEST RESULT	15
3.4 RADIATED EMISSION MEASUREMENT	16
3.4.1 RADIATED EMISSION LIMITS	16
3.4.2 TEST PROCEDURE	17
3.4.3 DEVIATION FROM TEST STANDARD	17
3.4.4 TEST RESULTS (BLOW 30MHZ)	20
3.4.5 TEST RESULTS (BETWEEN 30 – 1000 MHZ)	21
3.4.6 TEST RESULTS (ABOVE 1000 MHZ)	23
3.4.7 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)	32
4 . BANDWIDTH TEST	36
4.1 TEST PROCEDURE	36
4.2 DEVIATION FROM STANDARD	36
4.3 TEST SETUP	36
4.4 TEST RESULTS	37
5 . EUT TEST PHOTO	39
APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

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

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC FRN Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

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	Touchpad mini wireless Keyboard	
Trade Name	N/A	
Model Name	T8	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Touchpad mini wireless Keyboard	
	Operation Frequency:	2410-2473MHz
	Modulation Type:	GFSK
	Antenna Designation:	PCB Antenna
	Antenna Gain(Peak)	0 dBi
	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.	
Adapter	N/A	
Battery	DC 3.7V,3.8Wh	

Note:

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

2.

1	2410	24	2433	47	2456
2	2411	25	2434	48	2457
3	2412	26	2435	49	2458
4	2413	27	2436	50	2459
5	2414	28	2437	51	2460
6	2415	29	2438	52	2461
7	2416	30	2439	53	2462
8	2417	31	2440	54	2463
9	2418	32	2441	55	2464
10	2419	33	2442	56	2465
11	2420	34	2443	57	2466
12	2421	35	2444	58	2467
13	2422	36	2445	59	2468
14	2423	37	2446	60	2469
15	2424	38	2447	61	2470
16	2425	39	2448	62	2471
17	2426	40	2449	63	2472
18	2427	41	2450	64	2473
19	2428	42	2451		
20	2429	43	2452		
21	2430	44	2453		
22	2431	45	2454		
23	2432	46	2455		

3.
Table for Filed Antenna

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

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base 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 Mode	Description
Mode 1	CH 04
Mode 2	CH 07
Mode 3	CH 11
Mode 4	TX

For Conducted Emission	
Final Test Mode	Description
Mode 4	TX

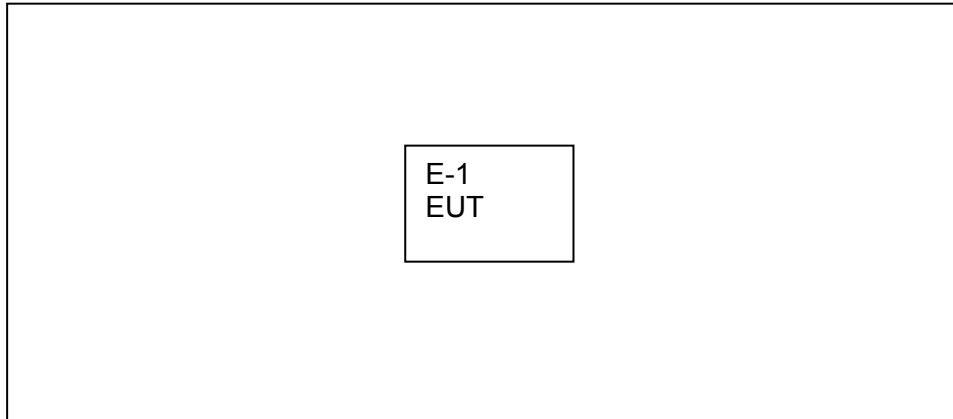
For Radiated Spurious Emission	
Pretest Mode	Description
Mode 1	CH 04
Mode 2	CH 07
Mode 3	CH 11

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



2.4 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	Touchpad mini wireless Keyboard	N/A	T8	N/A	EUT

Item	Cable Type	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.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	E4407B	160400005	Jul. 06. 2016
2	Test Receiver	R&S	ESPI	101318	Jul. 06. 2016
3	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06. 2016
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Jul. 06. 2016
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Jul. 06. 2016
6	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06. 2016
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	Jul. 06. 2016
8	Amplifier	EM	EM-30180	060538	Jul. 06. 2016
9	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06. 2016
10	Power Meter	R&S	NRVS	100696	Jul. 06. 2016

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Receiver	R&S	ESCI	101160	Jul. 06. 2016
2	LISN	R&S	ENV216	101313	Jul. 06. 2016
3	LISN	EMCO	3816/2	00042990	Jul. 06. 2016
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	Jul. 06. 2016
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	Jul. 06. 2016
6	Absorbing clamp	R&S	MOS-21	100423	Jul. 06. 2016

3. ANTENNA REQUIREMENT

3.1 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.

3.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

3.3 CONDUCTED EMISSION MEASUREMENT

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

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

0.15 -0.5			66 - 56 *	56 - 46 *	LP002.
0.50 -5.0			56.00	46.00	LP002.
5.0 -30.0			60.00	50.00	LP002.

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

3.3.2 TEST PROCEDURE

- The EUT was placed 0.4 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.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 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

3.2.5 TEST RESULT

EUT :	Touchpad mini wireless Keyboard	Model Name. :	T8
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode :	N/A

Note:

N/A : means not applicable, Since the EUT's Power supplied from 3.7V battery.

3.4 RADIATED EMISSION MEASUREMENT

3.4.1 Radiated Emission Limits (FCC 15.209)

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
Frequency (MHz)	Limit (dBuV)	
30~88	40	3
88~216	43.5	3
216~960	46	3
960 -10000	54.00	3
*902 - 928	94.00	3

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) *Note: This is the limit for the fundamental frequency.

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.249)

Frequency of Emission (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
902-928	50	500

Notes:

- (1) 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.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

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

3.4.2 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 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. 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 for below 1GHz and 1.5m for above 1GHz; 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.

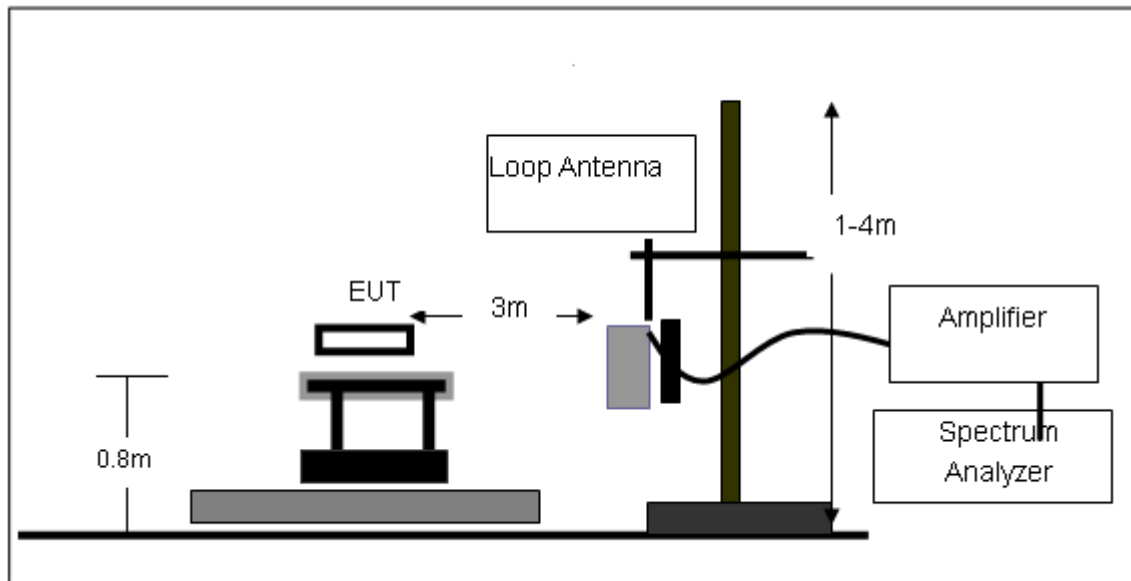
Note:

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

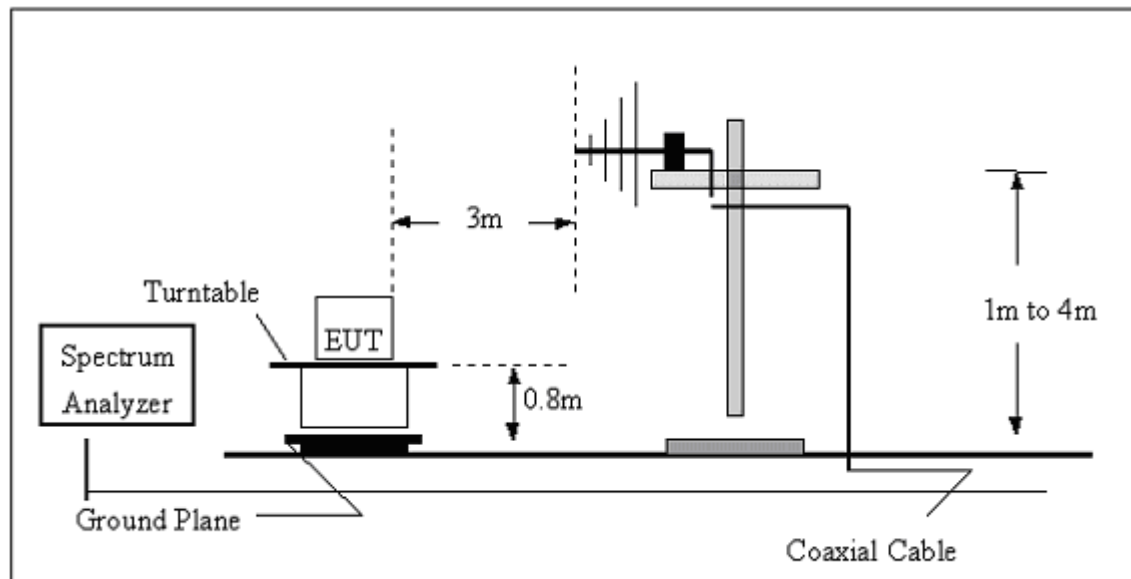
3.4.3 DEVIATION FROM TEST STANDARD

No deviation

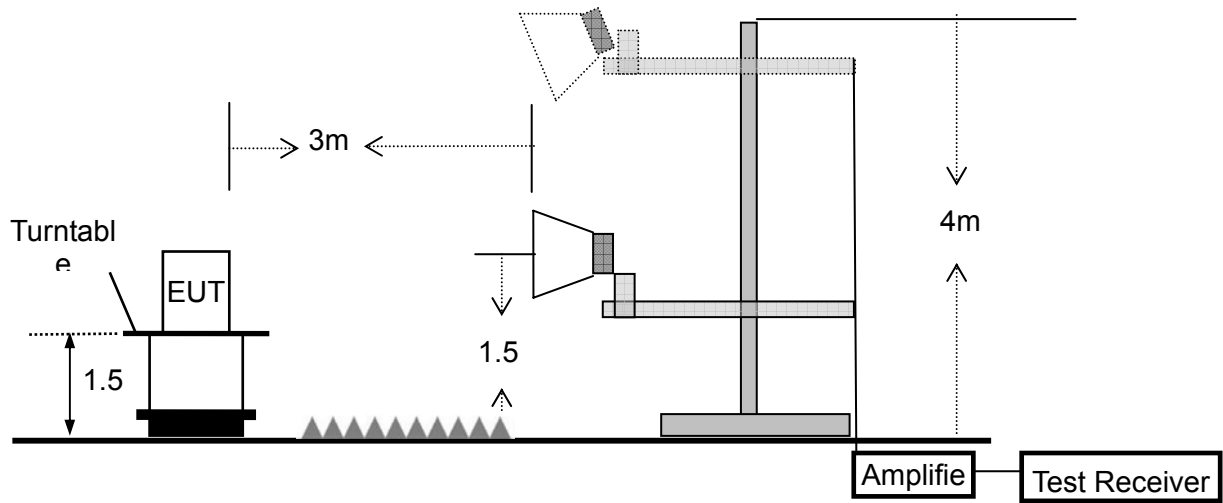
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.4.4 TEST RESULTS (BLOW 30MHz)

EUT :	Touchpad mini wireless Keyboard	Model Name. :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	--

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 = $20 \log (\text{specific distance/test distance})(\text{dB})$;

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

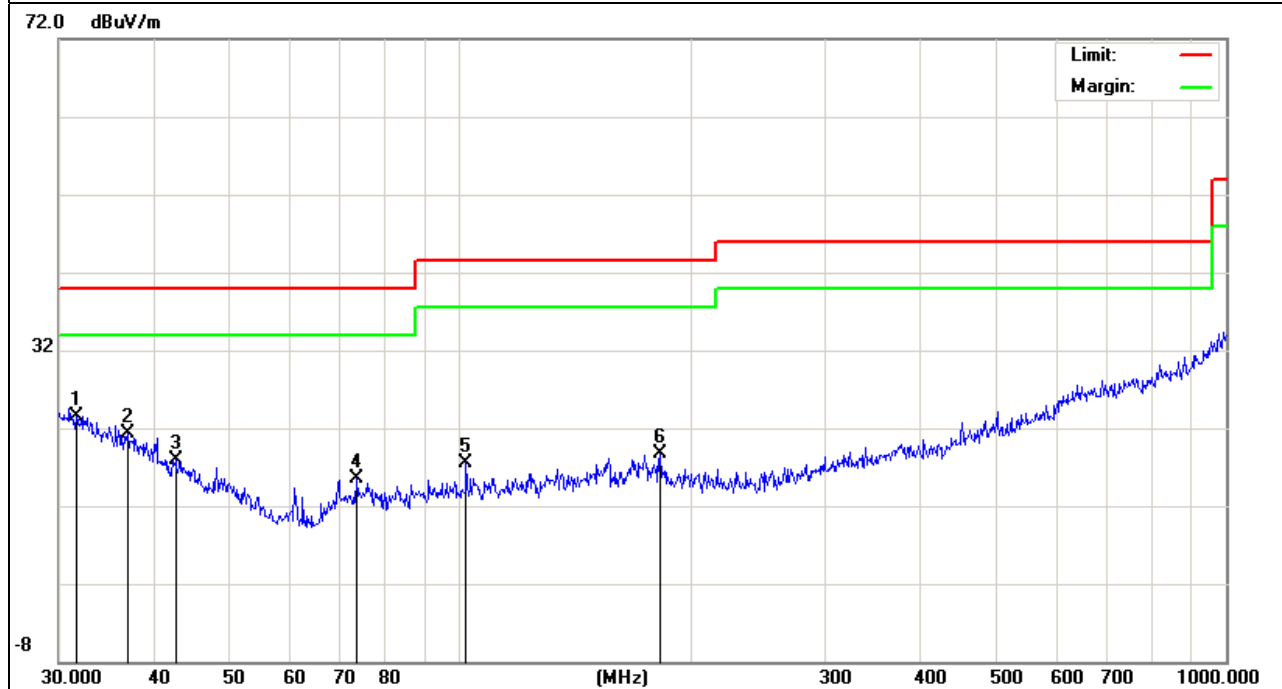
3.4.5 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
31.6202	4.57	18.99	23.56	40.00	-16.44	QP
36.8952	4.83	16.41	21.24	40.00	-18.76	QP
42.6000	4.67	13.22	17.89	40.00	-22.11	QP
73.3593	5.70	9.76	15.46	40.00	-24.54	QP
102.0014	7.15	10.27	17.42	43.50	-26.08	QP
182.5592	6.79	11.86	18.65	43.50	-24.85	QP

Remark:

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

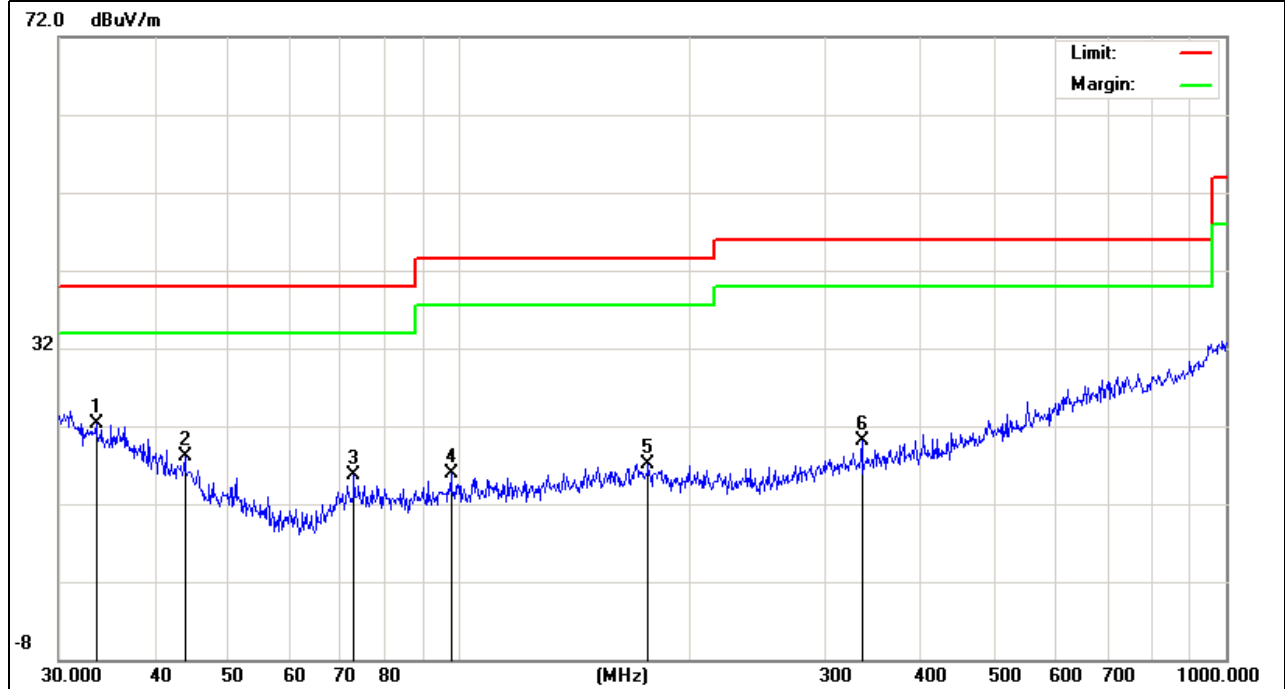


EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
33.5623	4.45	17.82	22.27	40.00	-17.73	QP
43.8119	5.27	12.74	18.01	40.00	-21.99	QP
72.8465	5.91	9.72	15.63	40.00	-24.37	QP
97.4560	5.60	10.37	15.97	43.50	-27.53	QP
176.2684	4.88	12.21	17.09	43.50	-26.41	QP
334.8589	6.27	13.78	20.05	46.00	-25.95	QP

Remark:

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



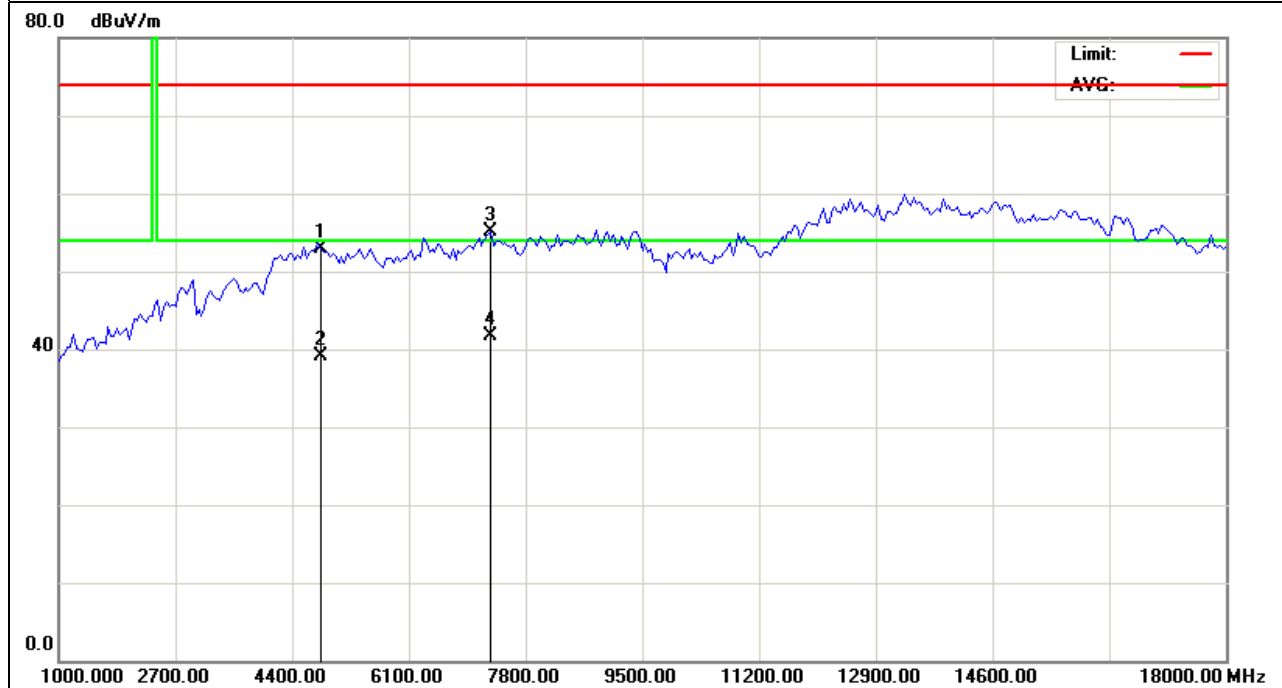
3.4.6 TEST RESULTS (BETWEEN 1000MHZ~ 18000 MHZ)

EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2410MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4825.000	51.64	1.34	52.98	74.00	-21.02	peak
4825.000	37.72	1.34	39.06	54.00	-14.94	AVG
7290.000	50.87	4.27	55.14	74.00	-18.86	peak
7290.000	37.49	4.27	41.76	54.00	-12.24	AVG

Remark:

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

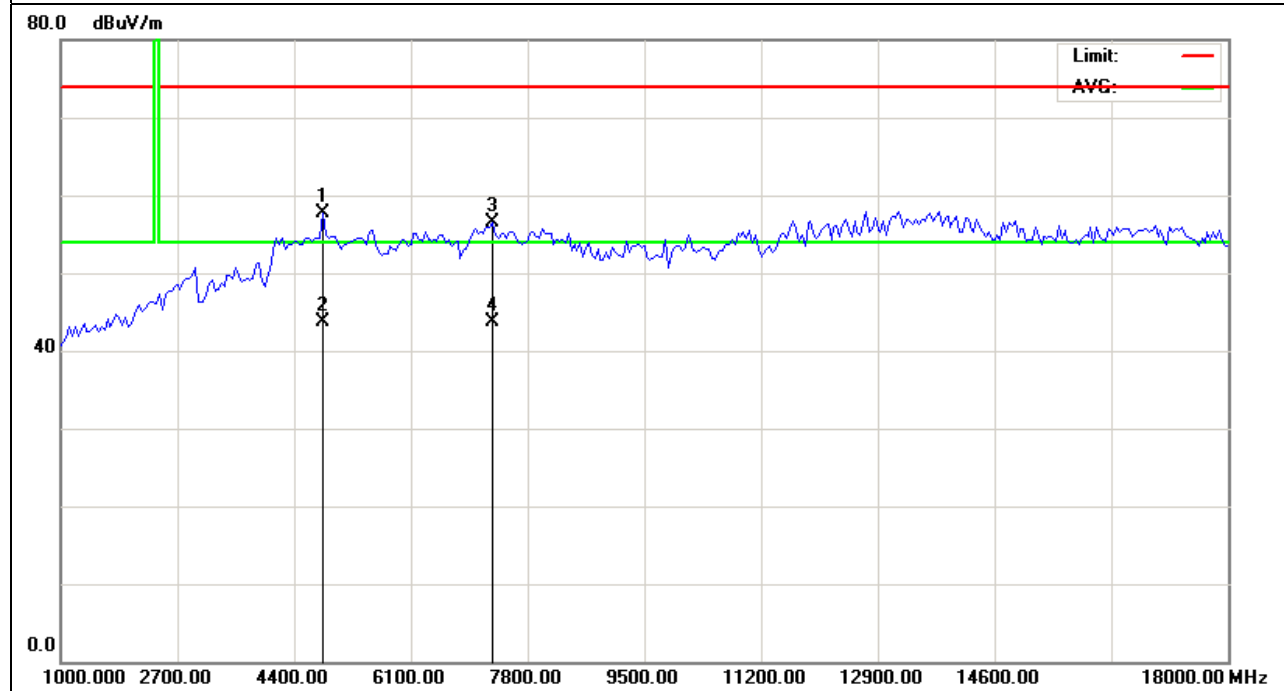


EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2410MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4825.000	56.34	1.34	57.68	74.00	-16.32	peak
4825.000	42.28	1.34	43.62	54.00	-10.38	AVG
7290.000	52.24	4.27	56.51	74.00	-17.49	peak
7290.000	39.49	4.27	43.76	54.00	-10.24	AVG

Remark:

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

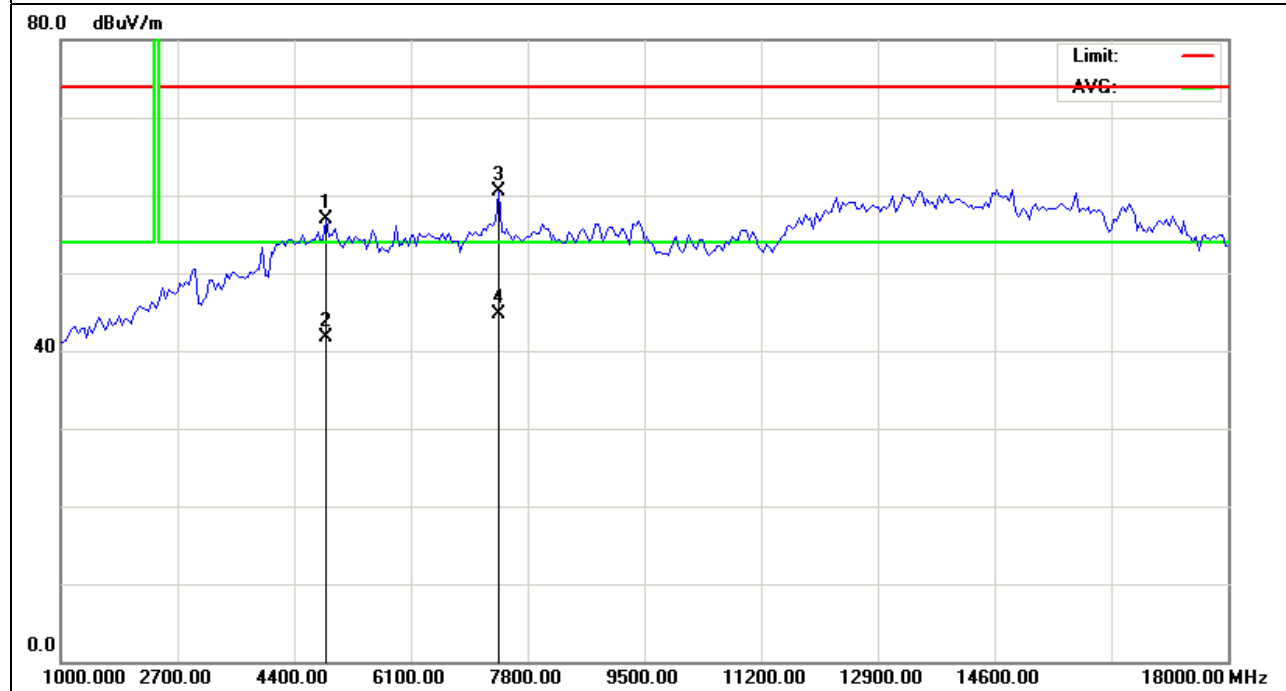


EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2442MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4867.500	55.47	1.53	57.00	74.00	-17.00	peak
4867.500	40.21	1.53	41.74	54.00	-12.26	AVG
7375.000	56.13	4.37	60.50	74.00	-13.50	peak
7375.000	40.26	4.37	44.63	54.00	-9.37	AVG

Remark:

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

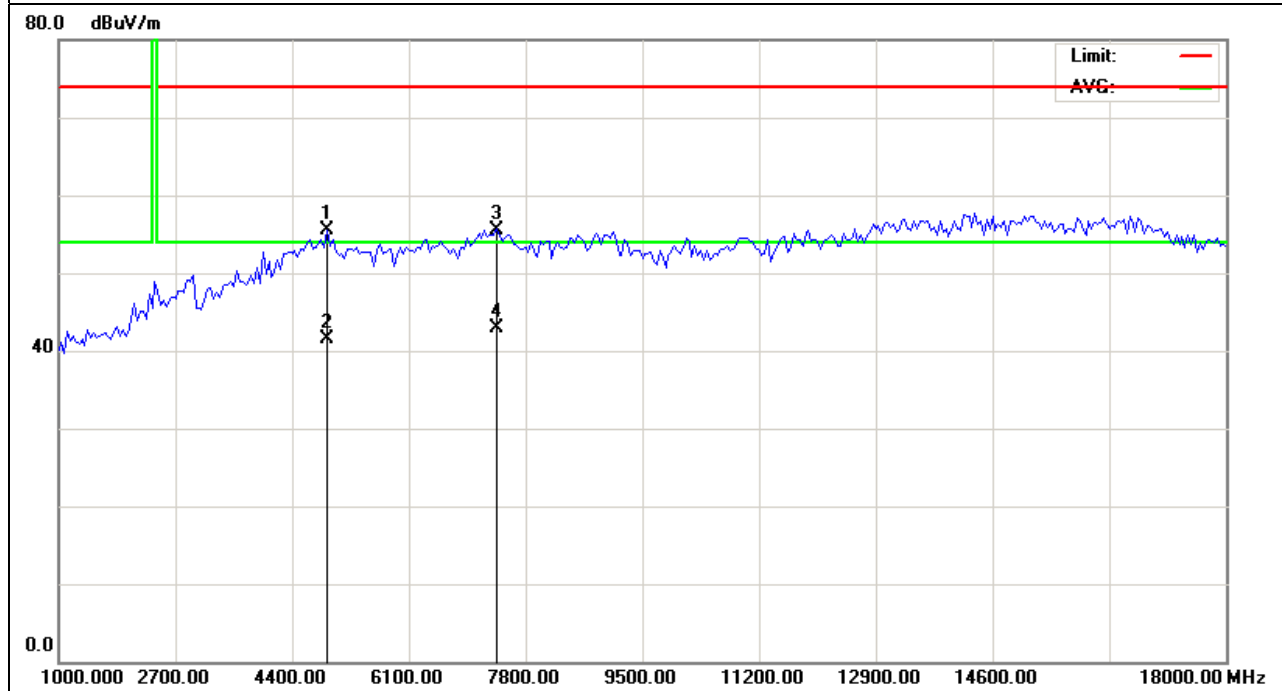


EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2442MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4910.000	53.90	1.70	55.60	74.00	-18.40	peak
4910.000	39.85	1.70	41.55	54.00	-12.45	AVG
7375.000	51.23	4.37	55.60	74.00	-18.40	peak
7375.000	38.58	4.37	42.95	54.00	-11.05	AVG

Remark:

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

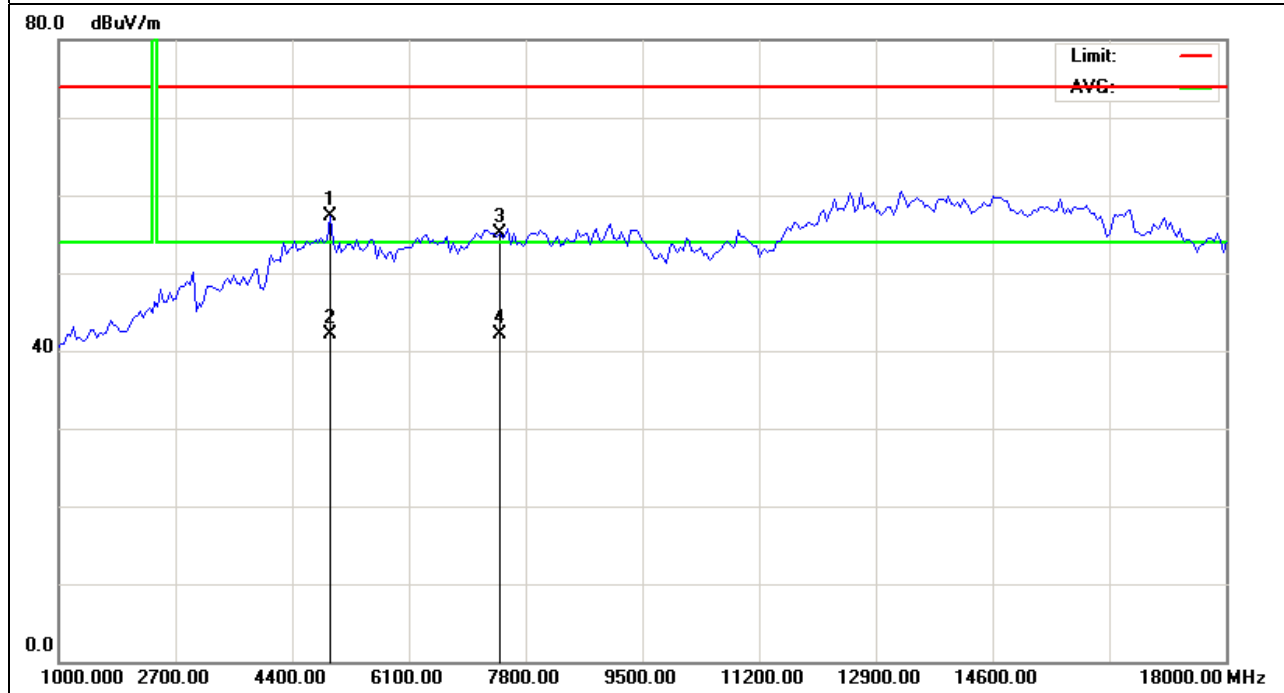


EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2473MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4952.500	55.58	1.82	57.40	74.00	-16.60	peak
4952.500	40.35	1.82	42.17	54.00	-11.83	AVG
7417.500	50.71	4.36	55.07	74.00	-18.93	peak
7417.500	37.69	4.36	42.05	54.00	-11.95	AVG

Remark:

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

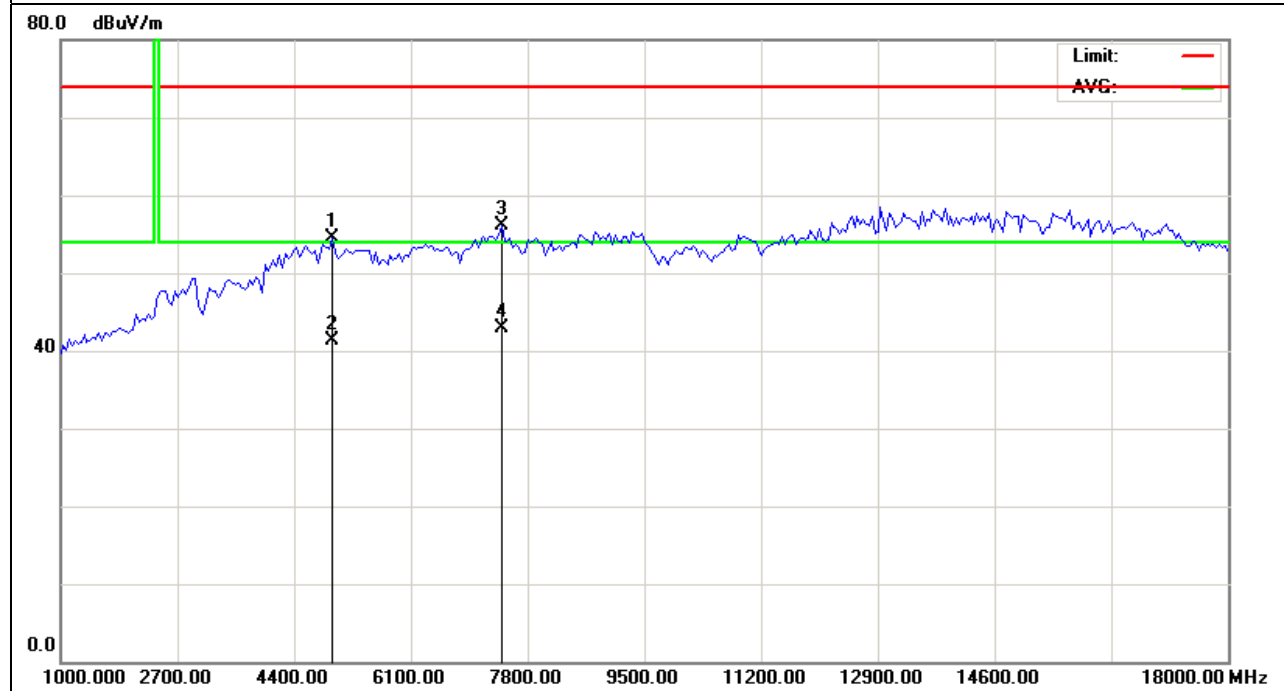


EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2473MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4952.500	52.68	1.82	54.50	74.00	-19.50	peak
4952.500	39.57	1.82	41.39	54.00	-12.61	AVG
7417.500	51.74	4.36	56.10	74.00	-17.90	peak
7417.500	38.46	4.36	42.82	54.00	-11.18	AVG

Remark:

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



Note: EUT Pre-scan X/Y/Z orientation, only worst case is presented in the report(X orientation).

3.4.7 TEST RESULTS (BETWEEN 18000MHZ~ 26000 MHZ)

All the modulation modes have been tested, and the worst result was report as below:

EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2410MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
18827.000	62.59	-13.06	49.53	74	-24.47	peak
18827.000	52.16	-13.06	39.1	54	-14.9	AVG
25572.000	60.97	-13.06	47.91	74	-26.09	peak
25572.000	51.54	-13.06	38.48	54	-15.52	AVG

EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2410MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
18954.000	60.72	-12.78	47.94	74	-26.06	peak
18954.000	52.6	-12.78	39.82	54	-14.18	AVG
25751.000	61.89	-12.78	49.11	74	-24.89	peak
25751.000	50.32	-12.78	37.54	54	-16.46	AVG

EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2442MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19479.000	64.11	-12.24	51.87	74	-22.13	peak
19479.000	52.45	-12.24	40.21	54	-13.79	AVG
26000.000	63.75	-12.24	51.51	74	-22.49	peak
26000.000	52.81	-12.24	40.57	54	-13.43	AVG

EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2442MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19894.000	63.63	-13.06	50.57	74	-23.43	peak
19894.000	53.2	-13.06	40.14	54	-13.86	AVG
26000.000	62.01	-13.06	48.95	74	-25.05	peak
26000.000	52.58	-13.06	39.52	54	-14.48	AVG

EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2473MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
18752.000	61.76	-12.78	48.98	74	-25.02	peak
18752.000	53.64	-12.78	40.86	54	-13.14	AVG
25471.000	62.93	-12.78	50.15	74	-23.85	peak
25471.000	51.36	-12.78	38.58	54	-15.42	AVG

EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2473MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
18215.000	65.15	-12.24	52.91	74	-21.09	peak
18215.000	53.49	-12.24	41.25	54	-12.75	AVG
25418.000	64.79	-12.24	52.55	74	-21.45	peak
25418.000	53.85	-12.24	41.61	54	-12.39	AVG

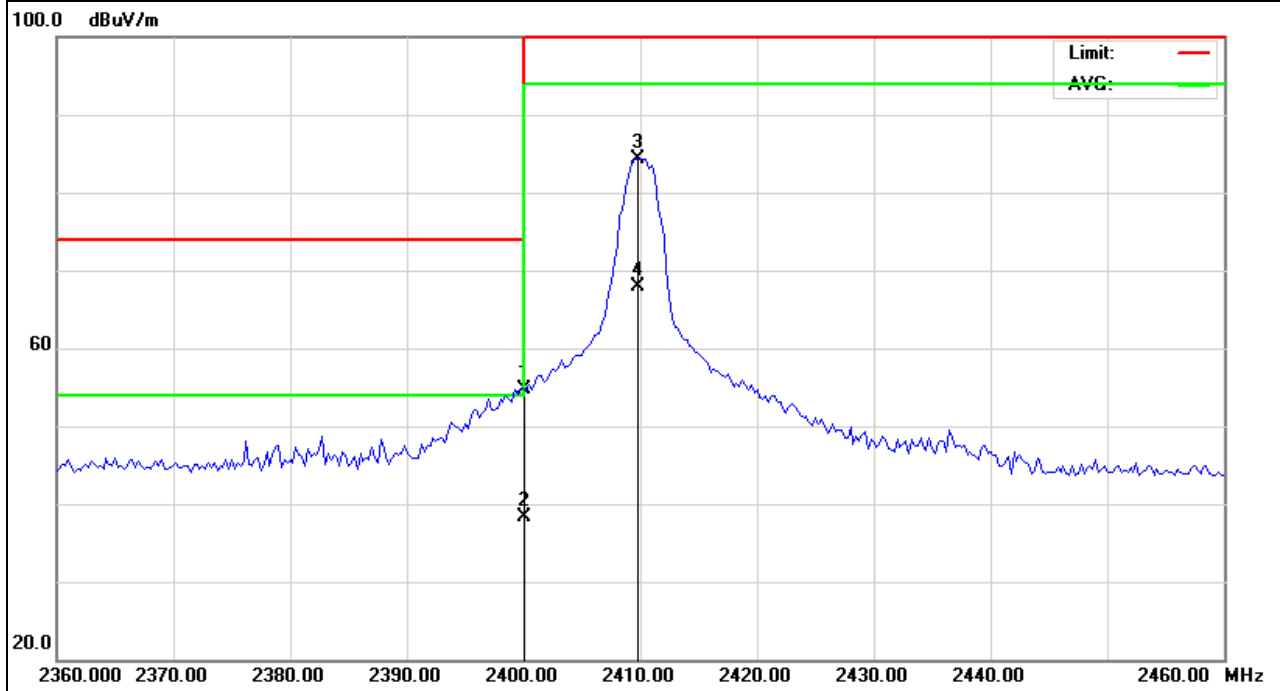
3.4.8 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2410MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400.000	65.47	-10.69	54.78	74.00	-19.22	peak
2400.000	48.94	-10.69	38.25	54.00	-15.75	AVG
2409.750	95.24	-10.88	84.36	114.00	-29.64	peak
2409.750	78.71	-10.88	67.83	94.00	-26.17	AVG

Remark:

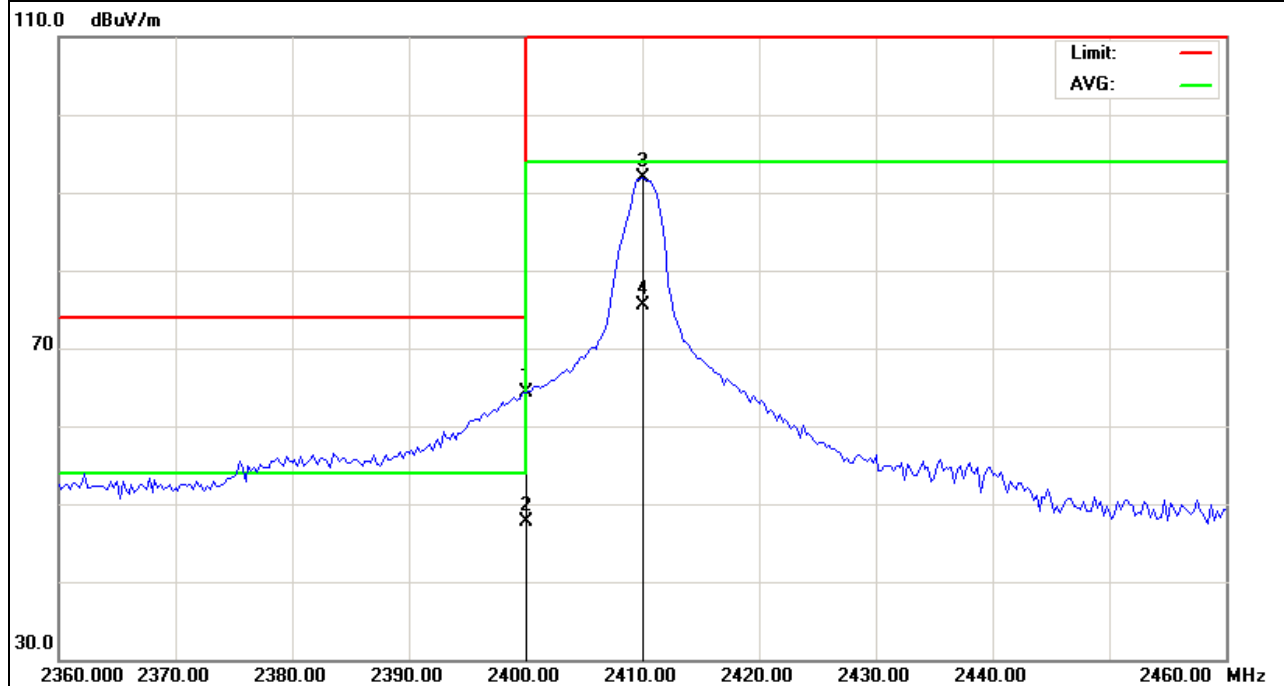
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2410MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400.000	75.00	-10.69	64.31	74.00	-9.69	peak
2400.000	58.47	-10.69	47.78	54.00	-6.22	AVG
2410.000	102.84	-10.88	91.96	114.0 0	-22.04	peak
2410.000	86.31	-10.88	75.43	94.00	-18.57	AVG

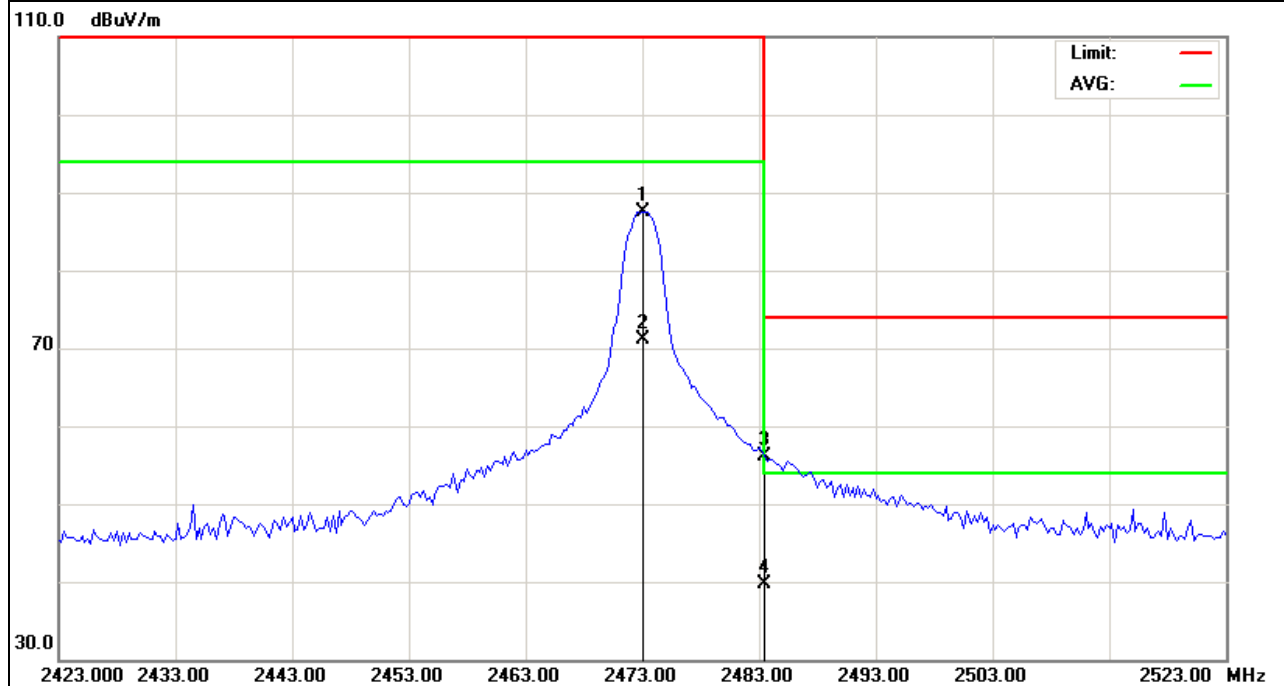
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2473MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2473.000	99.16	-11.60	87.56	114.0 0	-26.44	peak
2473.000	82.63	-11.60	71.03	94.00	-22.97	AVG
2483.500	67.78	-11.58	56.20	74.00	-17.80	peak
2483.500	51.25	-11.58	39.67	54.00	-14.33	AVG

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

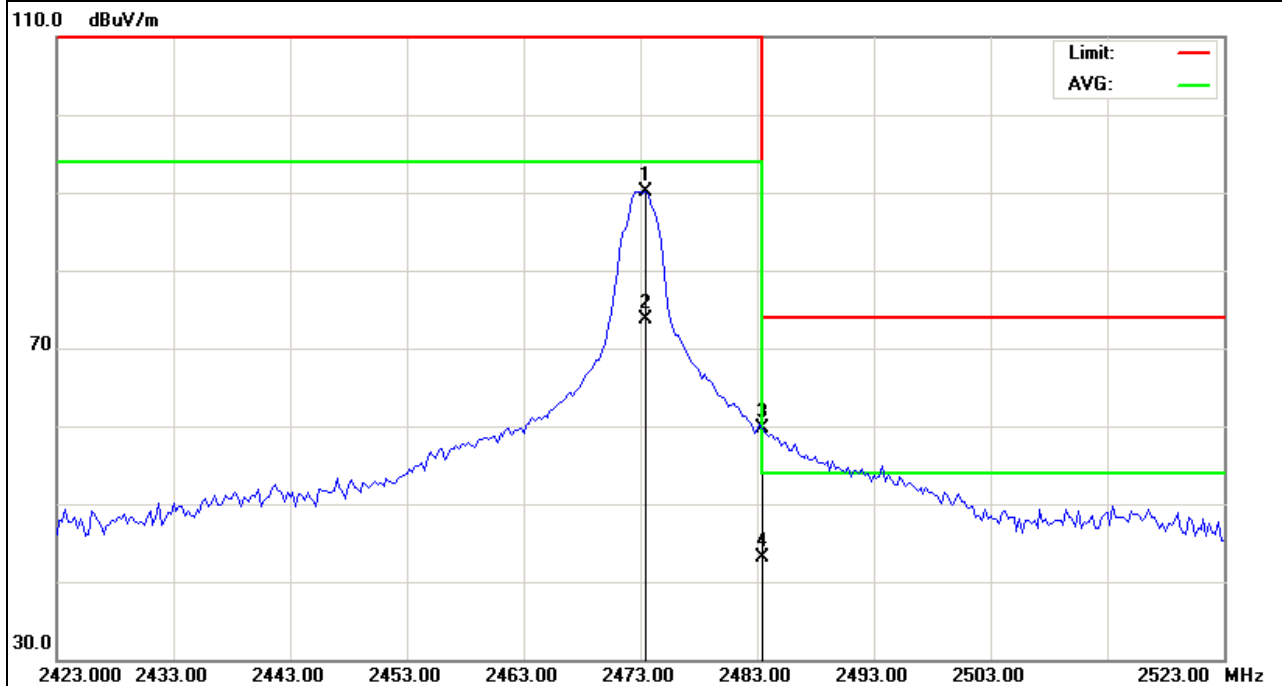


EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX-2473MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2473.500	101.74	-11.60	90.14	114.0 0	-23.86	peak
2473.500	85.21	-11.60	73.61	94.00	-20.39	AVG
2483.500	71.21	-11.58	59.63	74.00	-14.37	peak
2483.500	54.68	-11.58	43.10	54.00	-10.90	AVG

Remark:

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



4. BANDWIDTH TEST

4.1 TEST PROCEDURE

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

4.2 DEVIATION FROM STANDARD

No deviation.

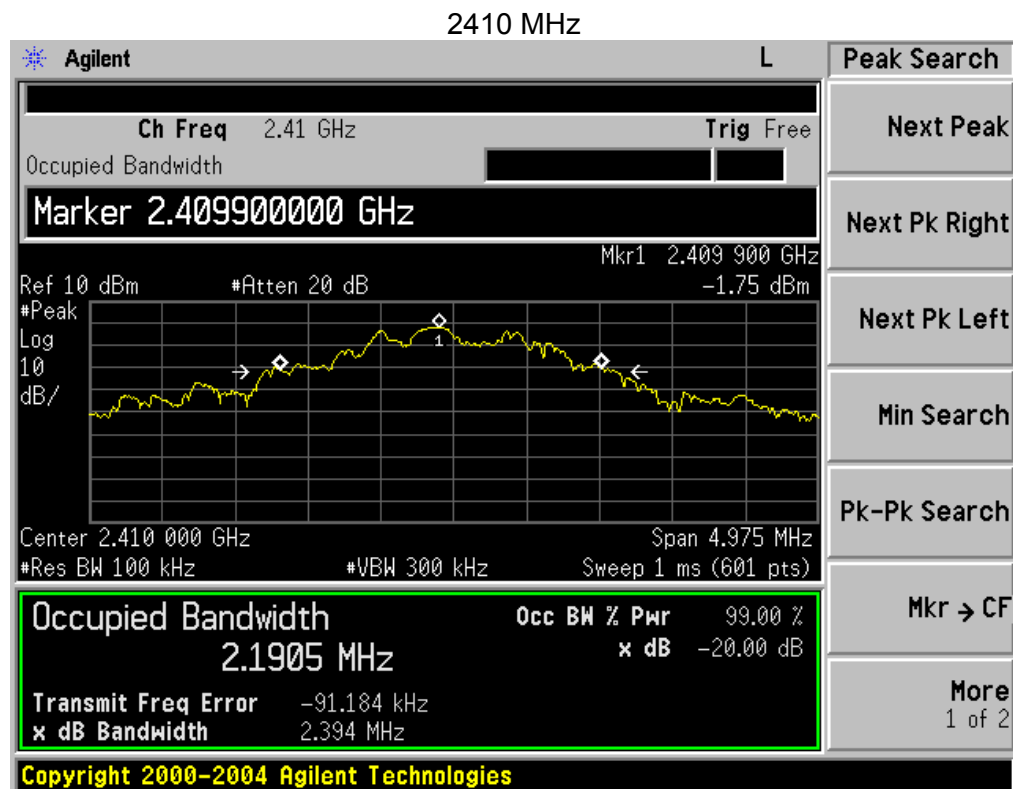
4.3 TEST SETUP



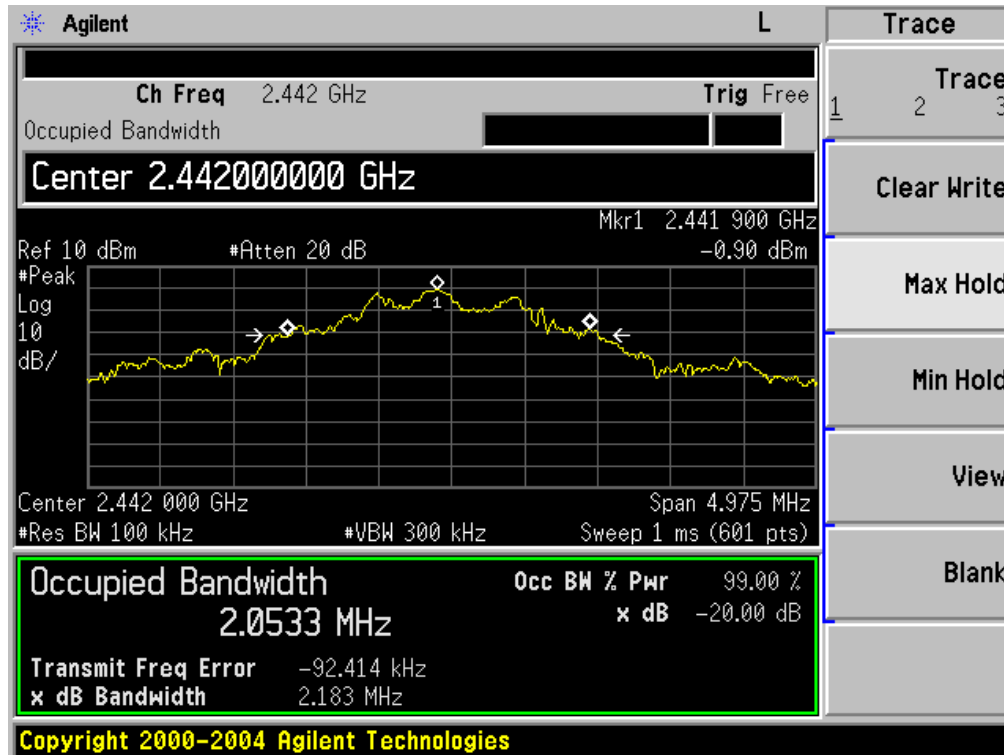
4.4 TEST RESULTS

EUT :	Touchpad mini wireless Keyboard	Model Name :	T8
Temperature :	26 °C	Relative Humidity :	53%
Pressure :	1020 hPa	Test Power :	DC 3.7V
Test Mode :	TX		

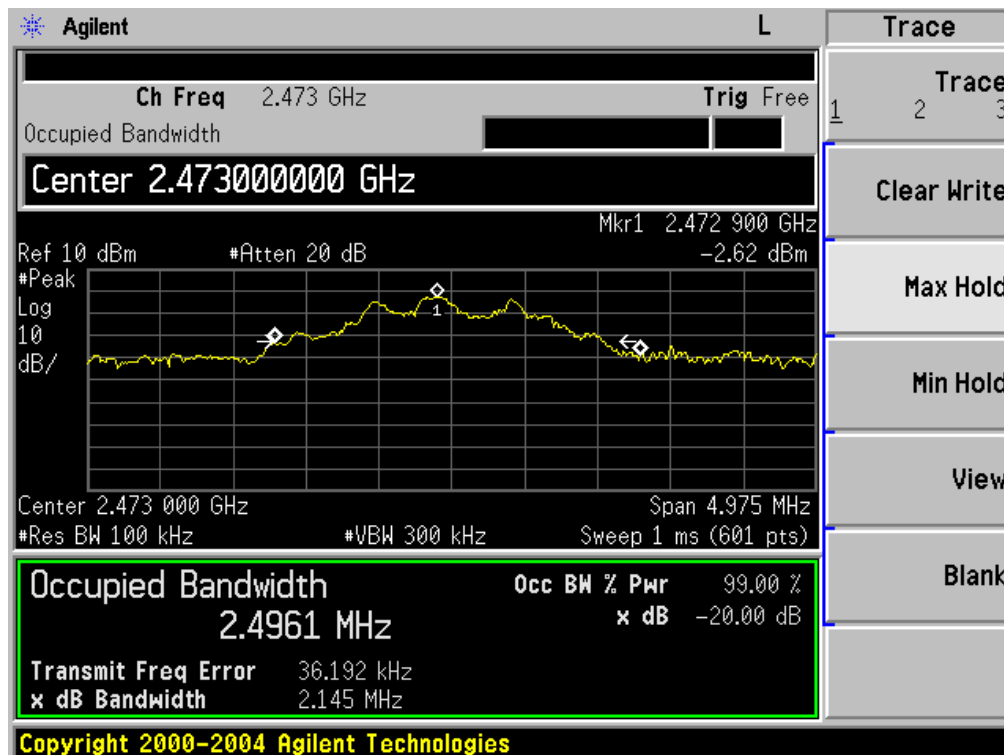
Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)
CH04	2410	2.394
CH07	2442	2.183
CH11	2473	2.145



2442 MHz



2473 MHz



5. EUT TEST PHOTO

Radiated Measurement Photos

