

FCC ID: YZTBT15012012

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

Issued Date : May. 08, 2012 **Project No.** : 1204C117

Equipment: Bluetooth Foldable Keyboard

Model Name: BT1501

Applicant: Donar Electronics Technology CO.,LTD

Address : D Building,No.2,Zhentou Road,Huangbu Industrial

Zone, Shajing Town, Bao' an District, Shenzhen,

China

Manufacturer: Donar Electronics Technology CO.,LTD

Address: D Building,No.2,Zhentou Road,Huangbu Industrial

Zone, Shajing Town, Bao' an District, Shenzhen,

China

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Apr. 24, 2012

Date of Test:

Apr. 24, 2012 ~ May. 07, 2012

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Report No.: NEI-FCCP-1-1204C117 Page 1 of 67



Declaration

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Report No.: NEI-FCCP-1-1204C117 Page 2 of 67

Table of Contents P	age
1. CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3. GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	11
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	11
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	D 12
3.5 DESCRIPTION OF SUPPORT UNITS	13
4 . EMC EMISSION TEST	14
4.1 CONDUCTED EMISSION MEASUREMENT	14
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	14
4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING 4.1.3 TEST PROCEDURE	14 15
4.1.4 DEVIATION FROM TEST STANDARD	15
4.1.5 TEST SETUP	15
4.1.6 EUT OPERATING CONDITIONS	15
4.1.7 TEST RESULTS	16
4.2 RADIATED EMISSION MEASUREMENT 4.2.1 RADIATED EMISSION LIMITS	18 18
4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING	19
4.2.3 TEST PROCEDURE	20
4.2.4 DEVIATION FROM TEST STANDARD	20
4.2.5 TEST SETUP	21
4.2.6 EUT OPERATING CONDITIONS 4.2.7 TEST RESULTS (BELOW 30MHZ)	22 23
4.2.8 TEST RESULTS (BETWEEN30 – 1000 MHZ)	24
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)	26
5 . NUMBER OF HOPPING CHANNEL	38
5.1 APPLIED PROCEDURES / LIMIT	38
5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	38
5.1.2 TEST PROCEDURE 5.1.3 DEVIATION FROM STANDARD	38 38
5.1.4 TEST SETUP	38
5.1.5 EUT OPERATION CONDITIONS	38

Report No.: NEI-FCCP-1-1204C117 Page 3 of 67

Table of Contents	Page
5.1.6 TEST RESULTS	39
6 . AVERAGE TIME OF OCCUPANCY	40
6.1 APPLIED PROCEDURES / LIMIT	40
6.1.1 MEASUREMENT INSTRUMENTS LIST	40
6.1.2 TEST PROCEDURE 6.1.3 DEVIATION FROM STANDARD	40 40
6.1.4 TEST SETUP	41
6.1.5 EUT OPERATION CONDITIONS	41
6.1.6 TEST RESULTS	42
7 . HOPPING CHANNEL SEPARATION MEASUREMENT	48
7.1 APPLIED PROCEDURES / LIMIT	48
7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING 7.1.2 TEST PROCEDURE	48 48
7.1.3 DEVIATION FROM STANDARD	48
7.1.4 TEST SETUP	48
7.1.5 EUT OPERATION CONDITIONS 7.1.6 TEST RESULTS	48 49
8 . BANDWIDTH TEST	51
8.1 APPLIED PROCEDURES / LIMIT 8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	51 51
8.1.2 TEST PROCEDURE	51
8.1.3 DEVIATION FROM STANDARD	51
8.1.4 TEST SETUP 8.1.5 EUT OPERATION CONDITIONS	51 51
8.1.6 TEST RESULTS	52
9 . PEAK OUTPUT POWER TEST	54
9.1 APPLIED PROCEDURES / LIMIT	54
9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	54
9.1.2 TEST PROCEDURE	54
9.1.3 DEVIATION FROM STANDARD	54
9.1.4 TEST SETUP	54
9.1.5 EUT OPERATION CONDITIONS	54
9.1.6 TEST RESULTS	55
10 . ANTENNA CONDUCTED SPURIOUS EMISSION	57
10.1 APPLIED PROCEDURES / LIMIT	57
10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING 10.1.2 TEST PROCEDURE	57 57

Report No.: NEI-FCCP-1-1204C117 Page 4 of 67



Table of Contents	Page
10.1.3 DEVIATION FROM STANDARD	57
10.1.4 TEST SETUP	57
10.1.5 EUT OPERATION CONDITIONS	57
10.1.6 TEST RESULTS	58
11 . EUT TEST PHOTO	64

Report No.: NEI-FCCP-1-1204C117 Page 5 of 67

1. CERTIFICATION

Equipment: Bluetooth Foldable Keyboard

Brand Name: N/A Model Name: BT1501

Applicant: Donar Electronics Technology CO.,LTD F a c t o r y: Donar Electronics Technology CO.,LTD

A d d r e s s: D Building, No.2, Zhentou Road, Huangbu Industrial Zone, Shajing Town, Bao'

an District, Shenzhen, China

Date of Test: Apr. 24, 2012 ~ May. 07, 2012 Test Item: ENGINEERING SAMPLE

Standards: FCC Part15, Subpart C(15.247) / ANSI C63.4: 2009 / ANSI C63.10:2003 / FCC Public Notice DA 00-705, March 30, 2000.

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-1-1204C117) 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).

Report No.: NEI-FCCP-1-1204C117 Page 6 of 67

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

APPLIED STANDARD: 47 CFR Part 15, Subpart C				
Standard Section 47 CFR Part 15	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247(d)	Antenna conducted Spurious Emission	PASS		
15.247 (a)(1)	Hopping Channel Separation	PASS		
15.247 (b)(1)	Peak Output Power	PASS		
15.247(d) 15.209	Radiated Spurious Emission	PASS		
15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS		
15.247 (a)(1)(iii)	Dwell Time	PASS		
15.205	Restricted Bands	PASS		
15.203	Antenna Requirement	PASS		

NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) According to FCC Public Notice DA 00-705, March 30, 2000.

Report No.: NEI-FCCP-1-1204C117 Page 7 of 67

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C01/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number for FCC 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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
DG-C01	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CB03	CISER	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	

Report No.: NEI-FCCP-1-1204C117 Page 8 of 67



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Bluetooth Foldable Keyb	ooard		
Brand Name	N/A			
Model Name	BT1501	BT1501		
OEM Brand/Model Name	N/A			
Model Difference	N/A			
	The EUT is a Bluetooth	Foldable Keyboard		
	Operation Frequency:	2402~2480 MHz		
	Modulation Technology Bit Rate of Transmitter	-GFSK(1Mbps)		
	Number of Channel	79 CH		
	Antenna Designation:	Please see Note 3.		
Product Description	Antenna Gain(Peak)	Please see Note 3.		
	Output Power:	-2.56 dBm		
	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.			
Power Source	#1 DC Voltage supplied from Lithium Battery. #2 DC Voltage supplied from Host System.			
Power Rating	#1 DC 3.7V #2 I/P AC120V/60Hz			
Connecting I/O Port(s)	Please refer to the User	s Manual		

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. Only 1Mbps (without higher data rate).

Report No.: NEI-FCCP-1-1204C117 Page 9 of 67



2.

		Ol	-1 1!-4		
	Channel List				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	-0.41

Report No.: NEI-FCCP-1-1204C117 Page 10 of 67

3.2 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	TX Mode NOTE (1)
Mode 2	Normal Link

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

	For Conducted Emission
Final Test Mode	Description
Mode 2	Normal Link

	For Radiated Emission
Final Test Mode	Description
Mode 1	TX Mode NOTE (1)

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

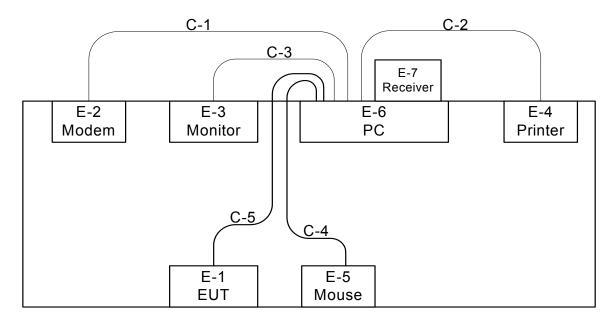
Test software Version	Test program: Bluetooth			
Frequency	2402 MHz	2441 MHz	2480 MHz	
Parameters-1Mbps	N/A	N//A	N/A	

Report No.: NEI-FCCP-1-1204C117 Page 11 of 67



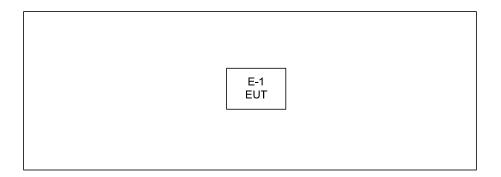
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted



C-1: RS232 Cable C-2: Parallel Cable C-3: D-Sub Cable C-4: USB Cable C-5: USB Cable

Radiated



Report No.: NEI-FCCP-1-1204C117 Page 12 of 67

3.5 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.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
	Bluetooth					
E-1	Foldable	N/A	BT1501	YZTBT15012012	N/A	EUT
	Keyboard					
E-2	Modem	ACEEX	DM-1414V	IFAXDm1414	0603002131	
E-3	Printer	SII	DPU-414	N/A	3018507 B	
E-4	LCD monitor	Dell	E177FPc	N/A	CNOFJ179-64180-6AG-1WNS	
E-5	PC	Dell 745	DCSM	N/A	J8K832X	
E-6	USB Mouse	Dell	MO56UOA	N/A	FQJ000BS	
E-7	Dongle	TRENDnet	TBW-106UB	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.5m	
C-2	YES	NO	1.5m	
C-3	YES	YES	1.5m	
C-4	YES	NO	1.8m	
C-5	NO	NO	0.6m	

Note:

- (1) The support equipment was authorized by Declaration of Conformity.
- (2) For detachable type I/O cable should be specified the length in m in <code>"Length_"</code> column.

Report No.: NEI-FCCP-1-1204C117 Page 13 of 67

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

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

Note:

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

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2SH	00052766	May.25.2012
2	LISN	R&S	ENV216	100526	May.25.2012
3	Test Cable	N/A	C_19	N/A	Apr.25.2013
4	EMI TEST RECEIVER	R&S	ESCI	100895	May.26.2012
5	50Ω Terminator	SHX	TF2-3G-A	08122901	May.26.2012

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

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

Report No.: NEI-FCCP-1-1204C117 Page 14 of 67

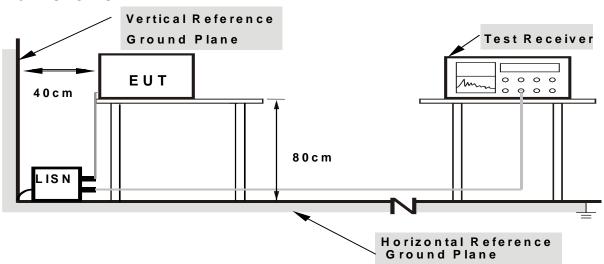
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 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

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.

The EUT is continue Transmitter/Receive data or Hopping on mode.

Report No.: NEI-FCCP-1-1204C117 Page 15 of 67

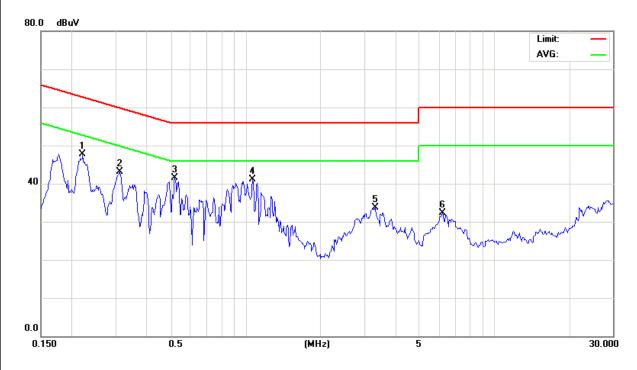
4.1.7 TEST RESULTS

EUT:	Bluetooth Foldable Keyboard	Model Name. :	BT1501		
Temperature:	25° C	Relative Humidity :	66 %		
Test Voltage:	AC 120V/60Hz				
Test Mode :	Normal Link				

Freq.	Terminal	Measure	ed(dBuV)	Limits((dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.22	Line	47.71	*	62.79	52.79	-15.08	(QP)
0.31	Line	43.04	*	59.94	49.94	-16.90	(QP)
0.52	Line	41.59	*	56.00	46.00	-14.41	(QP)
1.07	Line	41.11	*	56.00	46.00	-14.89	(QP)
3.31	Line	33.68	*	56.00	46.00	-22.32	(QP)
6.19	Line	32.40	*	60.00	50.00	-27.60	(QP)

Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform on this case, a " * " marked in AVG Mode column of Interference Voltage Measured on the North Research AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measu
- (2) Measuring frequency range from 150KHz to 30MHz.

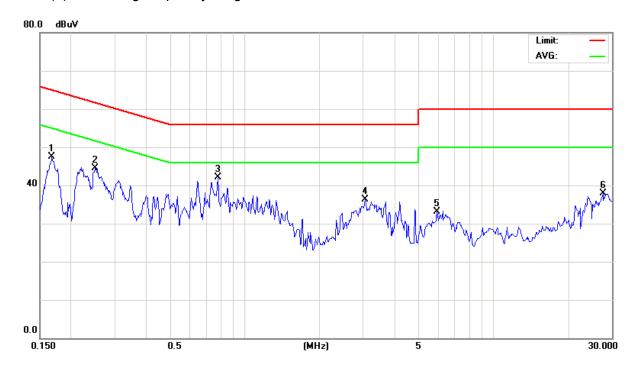


Report No.: NEI-FCCP-1-1204C117 Page 16 of 67

EUT:	Bluetooth Foldable Keyboard	Model Name. :	BT1501		
Temperature:	25° C	Relative Humidity:	66 %		
Test Voltage:	AC 120V/60Hz				
Test Mode :	Normal Link				

Freq.	Terminal	Measure	d(dBuV)	Limits((dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.17	Neutral	47.46	*	65.08	55.08	-17.62	(QP)
0.25	Neutral	44.58	*	61.73	51.73	-17.15	(QP)
0.78	Neutral	42.19	*	56.00	46.00	-13.81	(QP)
3.04	Neutral	36.38	*	56.00	46.00	-19.62	(QP)
5.93	Neutral	33.16	*	60.00	50.00	-26.84	(QP)
27.56	Neutral	37.88	*	60.00	50.00	-22.12	(QP)

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform on this case, a " * " marked in AVG Mode column of Interference Voltage Measured on the Note of
- (2) Measuring frequency range from 150KHz to 30MHz.



Report No.: NEI-FCCP-1-1204C117 Page 17 of 67



4.2 RADIATED EMISSION MEASUREMENT

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

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

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

Report No.: NEI-FCCP-1-1204C117 Page 18 of 67

4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	R&S	HFH2-Z2	830749/020	May.26.2012
2	Bi-log Antenna	Schwarbeck	VULB9160	9160-3232	May.25.2012
3	Horn Antenna	ETS	3115	00075789	May.11.2013
4	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170340	Dec.14.2012
5	Amplifier	HP	8447D	2944A09673	May.25.2012
6	Amplifier	Agilent	8449B	3008A02274	May.25.2012
7	Amplifier	EMC	EMC2654045	980039	Aug.11.2012
8	Test Receiver	R&S	ESCI	100895	May.25.2012
9	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012
10	Test Cable	N/A	C-01_CB03	N/A	May.04.2013
11	Test Cable	HUBER+SUHNER	SUCOFLEX_8 m	313794/4	Apr.11.2013
12	Controller	СТ	SC100	N/A	N/A

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

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RB / VB (emission in restricted	4 MHz /4 MHz for Dook 4 MHz /40Hz for Average	
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector
Start ~ Stop Frequency	90kHz~110kHz for QP detector
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector
Start ~ Stop Frequency	490kHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

Report No.: NEI-FCCP-1-1204C117 Page 19 of 67



4.2.3 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 3 meter fully-anechoic chamber. 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.

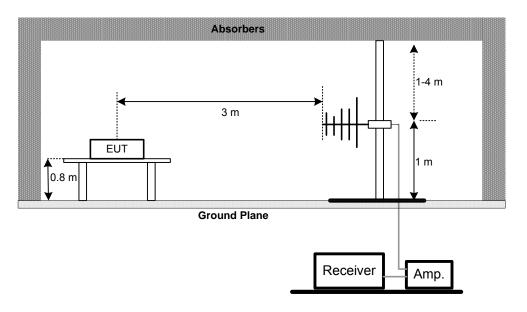
4.2.4 DEVIATION FROM TEST STANDARD No deviation

Report No.: NEI-FCCP-1-1204C117 Page 20 of 67

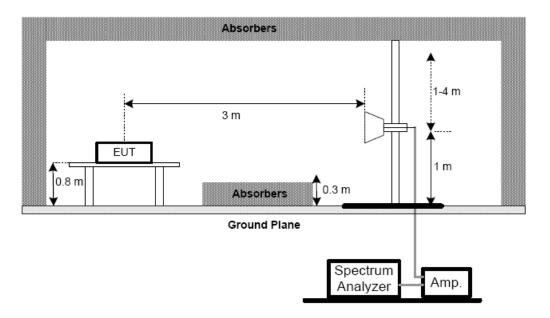


4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



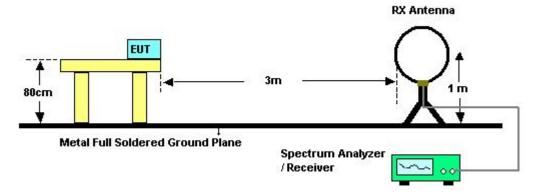
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



Report No.: NEI-FCCP-1-1204C117 Page 21 of 67



(C) For radiated emissions below 30MHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FCCP-1-1204C117 Page 22 of 67

4.2.7 TEST RESULTS (BELOW 30MHZ)

EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX Mode		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	14010
0.009	0°	17.25	24.30	41.55	128.12	-86.57	AV
0.009	0°	20.36	24.30	44.66	148.12	-103.46	PK
0.018	0°	18.27	24.30	42.57	122.74	-80.17	AV
0.018	0°	21.65	24.30	45.95	142.74	-96.79	PK
0.035	0°	18.07	23.36	41.43	116.77	-75.34	AV
0.035	0°	21.59	23.36	44.95	136.77	-91.82	PK
0.06	0°	18.14	22.11	40.25	111.41	-71.16	AV
0.06	0°	21.79	22.11	43.90	131.41	-87.51	PK
0.25	0°	18.51	20.40	38.91	99.73	-60.81	AVG
0.25	0°	21.74	20.40	42.14	119.73	-77.58	PK
1.37	0°	21.45	19.56	41.01	64.86	-23.84	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
0.010	90°	18.26	24.30	42.56	127.74	-85.18	AVG
0.010	90°	20.71	24.30	45.01	147.74	-102.73	PK
0.026	90°	17.50	23.93	41.43	119.37	-77.94	AVG
0.026	90°	20.84	23.93	44.77	139.37	-94.60	PK
0.047	90°	18.37	22.58	40.95	114.13	-73.18	AVG
0.047	90°	22.59	22.58	45.17	134.13	-88.96	PK
0.08	90°	17.57	21.86	39.43	109.90	-70.46	AVG
0.08	90°	22.07	21.86	43.93	129.90	-85.96	PK
0.25	90°	19.09	20.39	39.48	99.56	-60.08	AVG
0.25	90°	22.82	20.39	43.21	119.56	-76.35	PK
1.35	90°	20.88	19.56	40.44	64.97	-24.53	QP

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported \circ
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB); •
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor. •

Report No.: NEI-FCCP-1-1204C117 Page 23 of 67

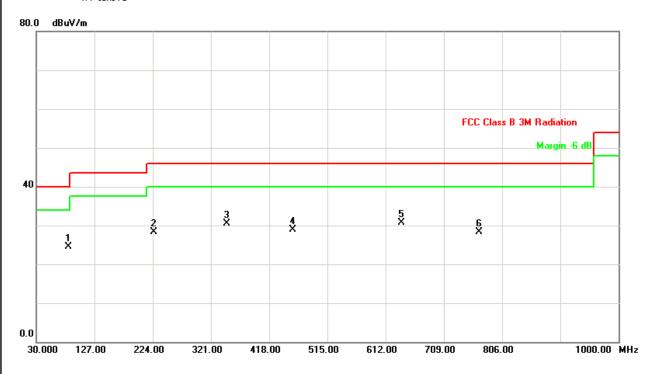
4.2.8 TEST RESULTS (BETWEEN30 - 1000 MHZ)

EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz -CH00-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
83.35	V	43.65	-19.10	24.55	40.00	- 15.45	
226.43	V	44.01	-15.69	28.32	46.00	- 17.68	
347.68	V	41.37	-10.90	30.47	46.00	- 15.53	
456.80	V	36.94	-8.01	28.93	46.00	- 17.07	
638.68	V	34.30	-3.55	30.75	46.00	- 15.25	
767.20	V	30.68	-2.33	28.35	46.00	- 17.65	

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of \lceil Note \rceil . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ

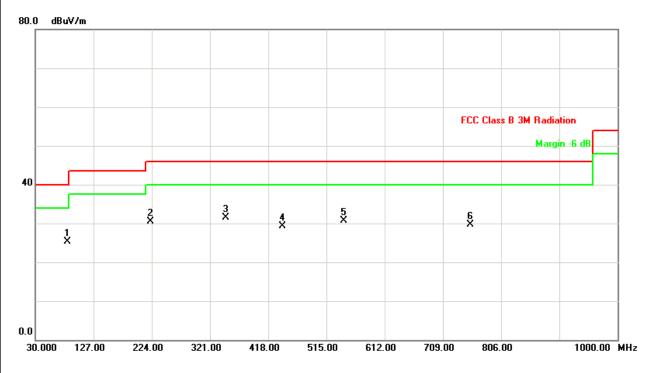


Report No.: NEI-FCCP-1-1204C117 Page 24 of 67

EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz -CH00-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
83.35	Н	44.42	-19.10	25.32	40.00	- 14.68	
221.58	Η	46.39	-15.82	30.57	46.00	- 15.43	
347.68	Ι	42.35	-10.90	31.45	46.00	- 14.55	
442.25	Ι	37.52	-8.26	29.26	46.00	- 16.74	
544.10	Ι	36.35	-5.71	30.64	46.00	- 15.36	
755.08	Ι	32.18	-2.49	29.69	46.00	- 16.31	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = $0.3 \text{ sec./MHz} \circ$
- (2) All readings are Peak unless otherwise stated QP in column of \lceil Note \rceil . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ



4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

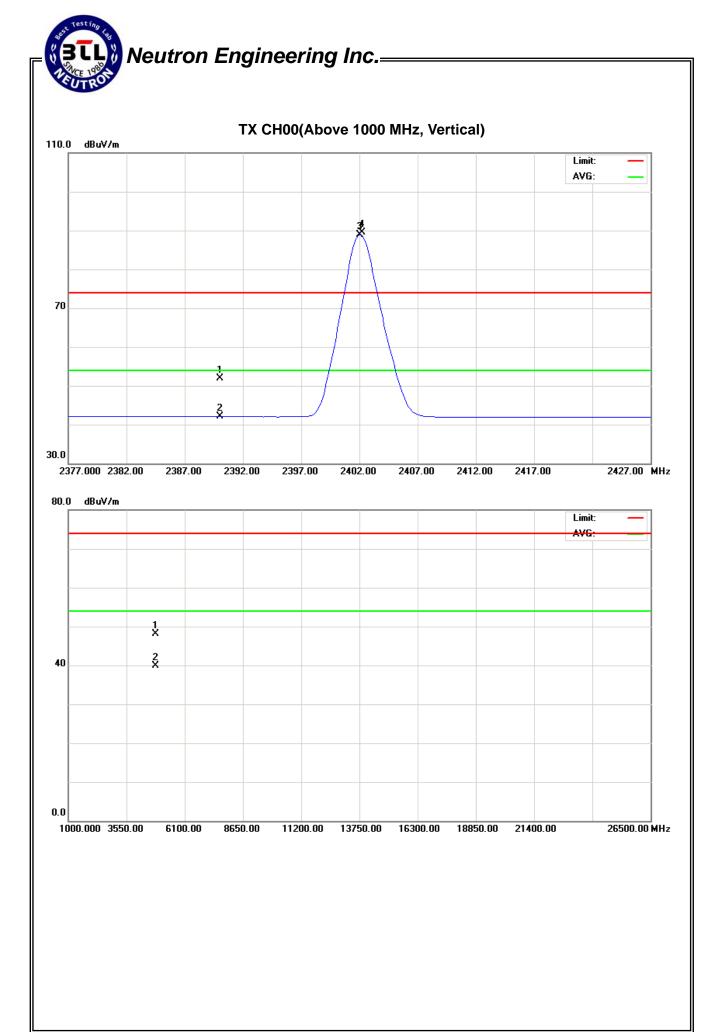
EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH 00-1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		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	19.94	10.15	31.91	51.85	42.06	74.00	54.00	X/E
2402.00	٧	57.53	57.05	31.90	89.43	88.95			X/F
4803.96	V	42.91	34.79	5.21	48.12	40.00	74.00	54.00	X/H

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) 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 Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1204C117 Page 26 of 67

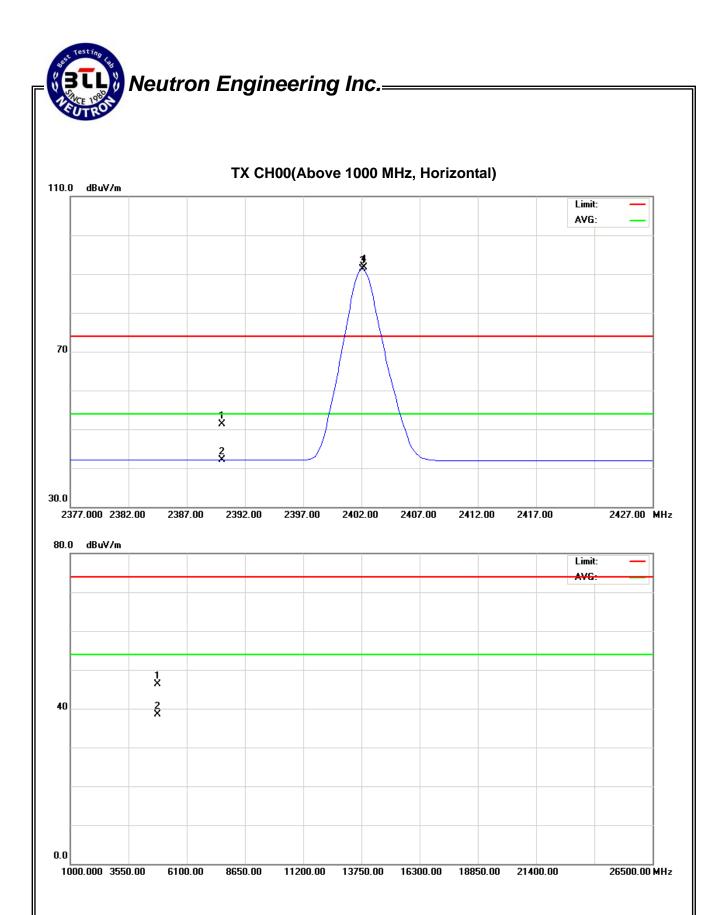


EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1010hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH 00-1Mbps		

Freq.	Ant.Pol.	Rea	Reading		Ad	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	19.32	10.16	31.91	51.23	42.07	74.00	54.00	X/E
2402.13	Н	59.84	59.39	31.90	91.74	91.29			X/F
4804.02	Н	41.09	33.25	5.21	46.30	38.46	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 Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1204C117 Page 28 of 67

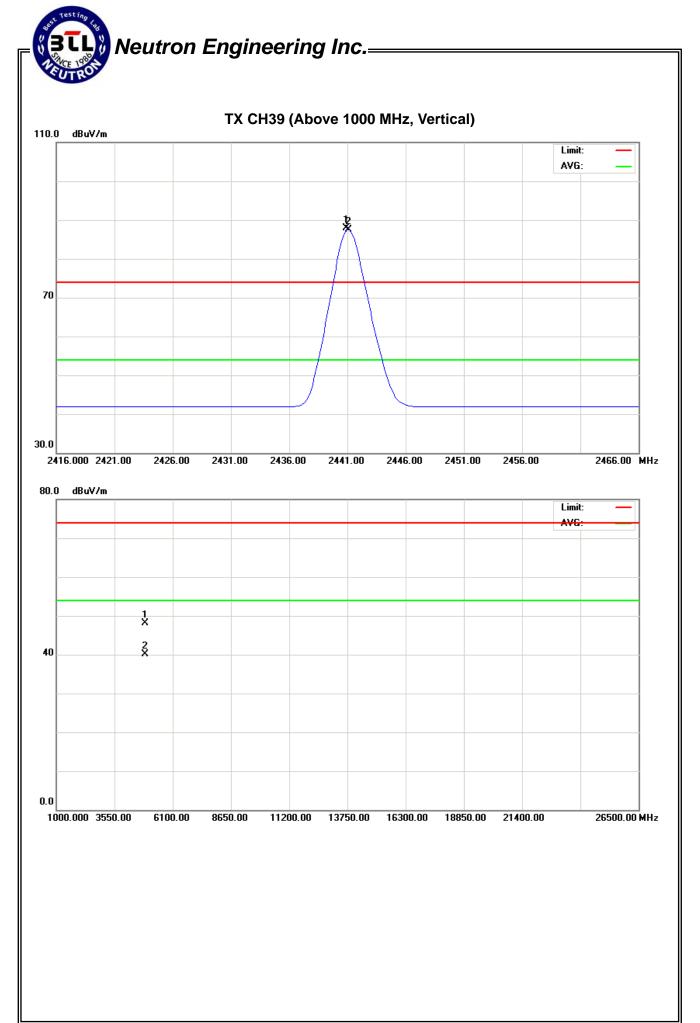


EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz –CH39-1Mbps		

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)	
2441.13	٧	56.14	55.66	31.85	87.99	87.51			X/F
4882.08	٧	42.67	34.52	5.50	48.17	40.02	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 o
- (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 Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1204C117 Page 30 of 67

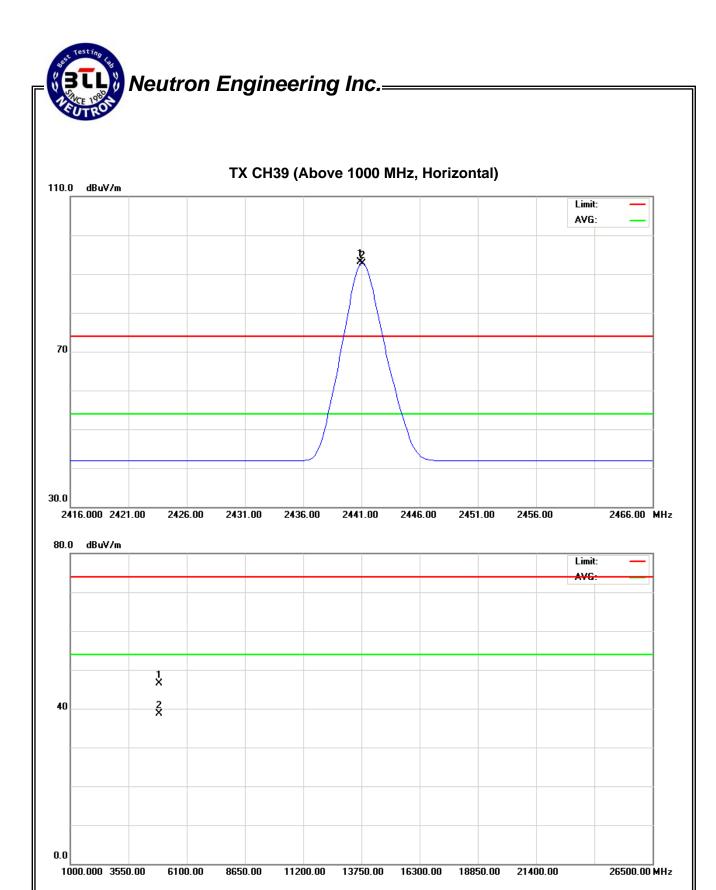


EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz –CH39-1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.13	Н	61.34	60.86	31.85	93.19	92.71			X/F
4882.12	Н	41.07	33.28	5.50	46.57	38.78	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 Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1204C117 Page 32 of 67

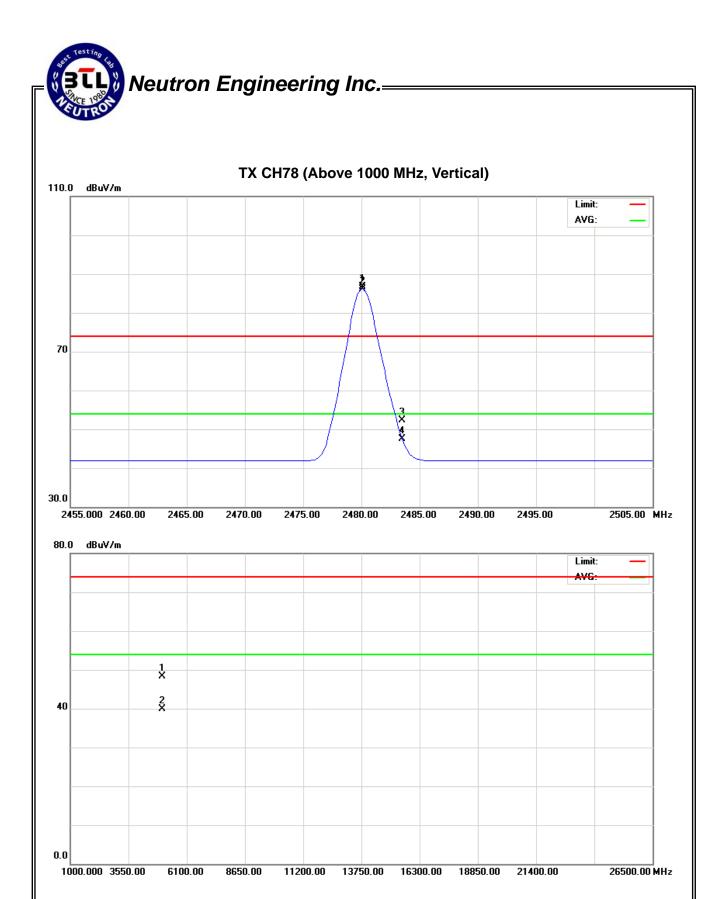


EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1010hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz -CH78-1Mbps		

Freq.	Ant.Pol.	Rea	Reading		Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.13	V	54.82	54.40	31.80	86.62	86.20			X/F
2483.50	V	20.54	15.77	31.80	52.34	47.57	74.00	54.00	X/E
4960.28	V	42.50	34.17	5.78	48.28	39.95	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 \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 Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1204C117 Page 34 of 67

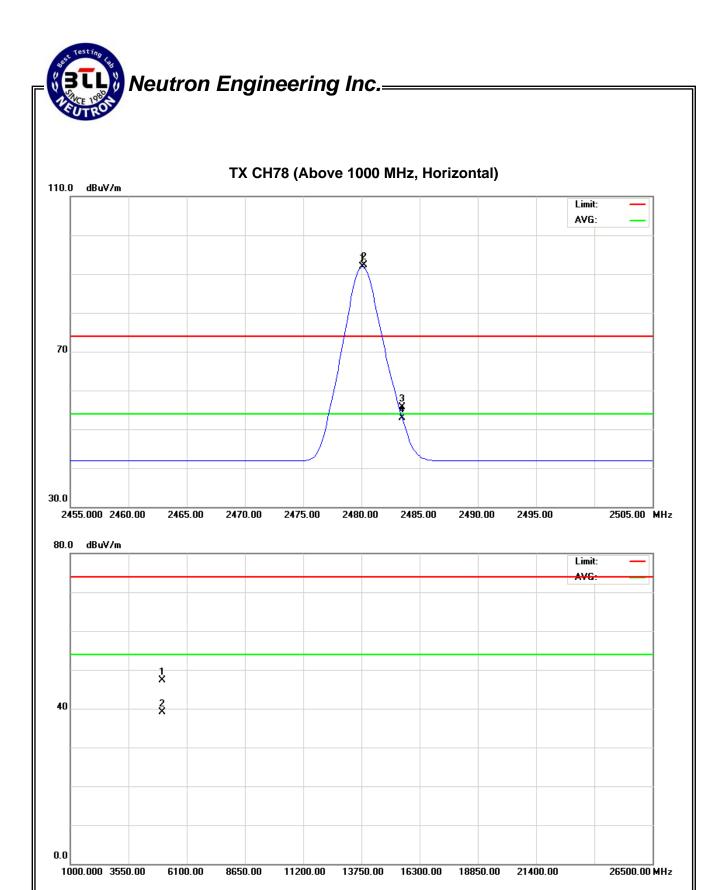


EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz -CH78-1Mbps		

Freq.	Ant.Pol.	Rea	Reading		Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.13	Н	60.56	60.13	31.80	92.36	91.93			X/F
2483.50	Н	23.96	21.07	31.80	55.76	52.87	74.00	54.00	X/E
4960.80	Н	41.48	33.34	5.79	47.27	39.13	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 Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FCCP-1-1204C117 Page 36 of 67



5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Frequency Range (MHz)	Result		
15.247 (a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS		

5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.2 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=100KHz, Sweep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

5.1.5 EUT OPERATION CONDITIONS

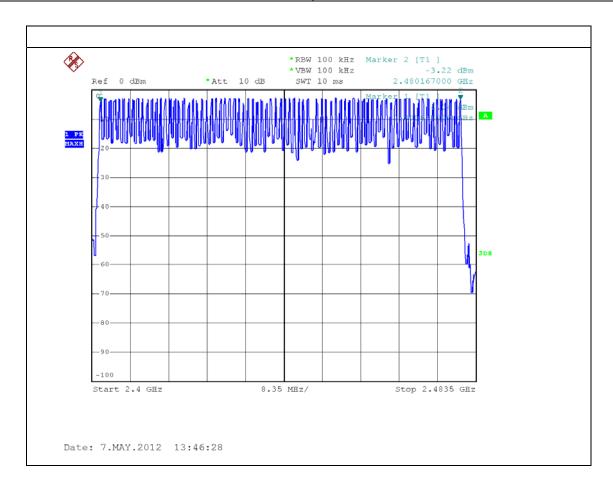
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FCCP-1-1204C117 Page 38 of 67



EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode -1Mbps		

Number of Hopping Channel	79
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Report No.: NEI-FCCP-1-1204C117 Page 39 of 67

6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS	

6.1.1 MEASUREMENT INSTRUMENTS LIST

It	em	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

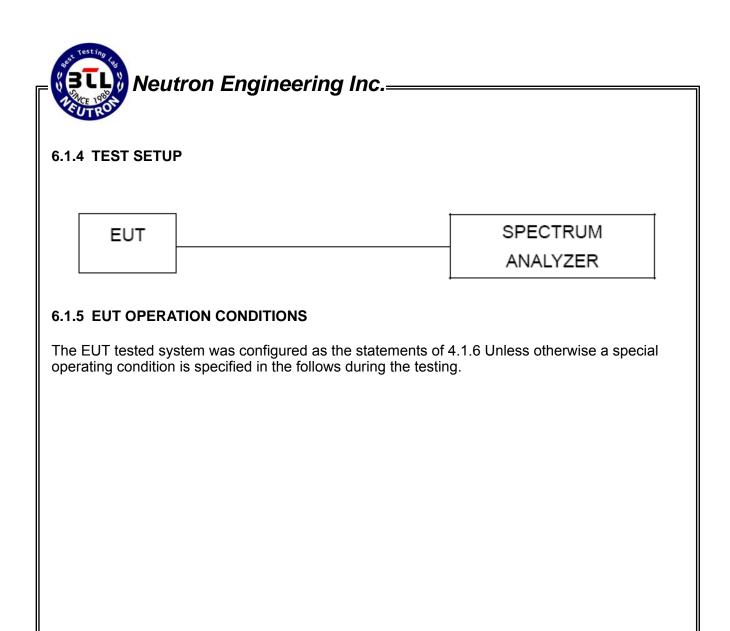
6.1.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/79/6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds.
- k. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds.

6.1.3 DEVIATION FROM STANDARD

No deviation.

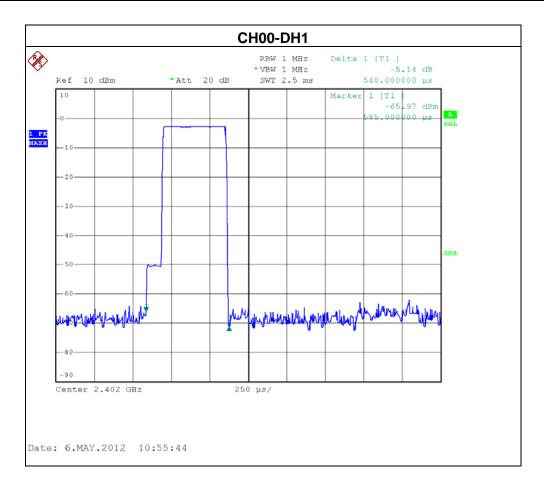
Report No.: NEI-FCCP-1-1204C117 Page 40 of 67



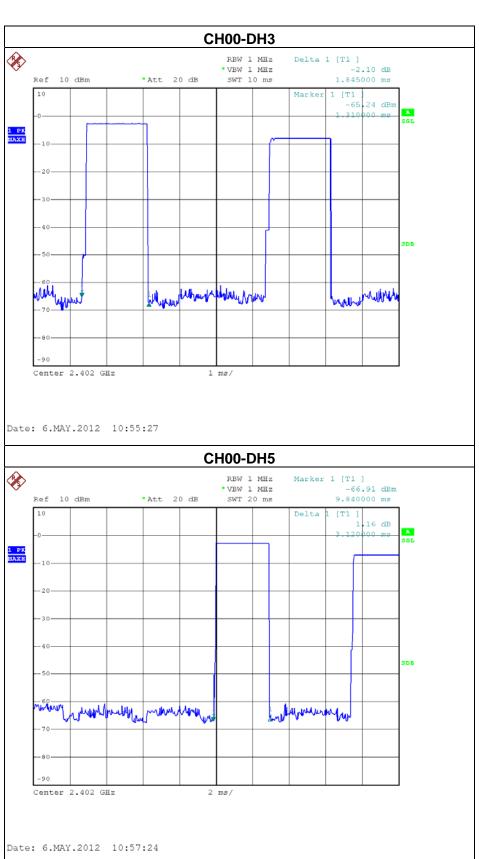
Report No.: NEI-FCCP-1-1204C117 Page 41 of 67

EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00-DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	3.1200	0.3328	0.4000
DH3	2402 MHz	1.8450	0.2952	0.4000
DH1	2402 MHz	0.5400	0.1728	0.4000

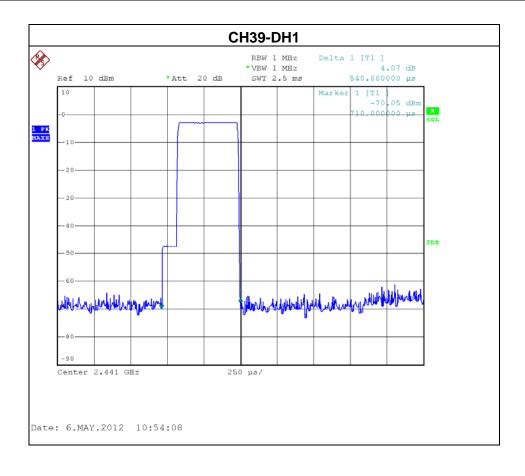


Report No.: NEI-FCCP-1-1204C117 Page 42 of 67

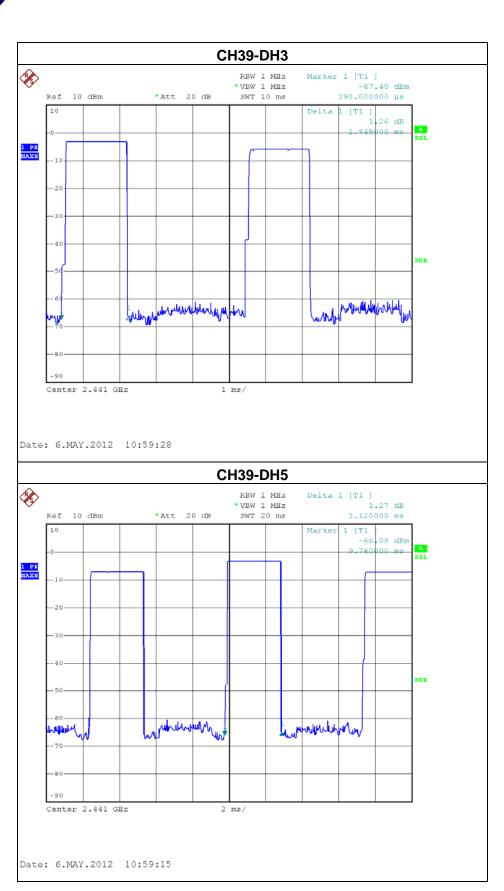


EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	25 ℃	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39 -DH1/DH3/DH5-1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.1200	0.3328	0.4000
DH3	2441 MHz	1.8450	0.2952	0.4000
DH1	2441 MHz	0.5400	0.1728	0.4000

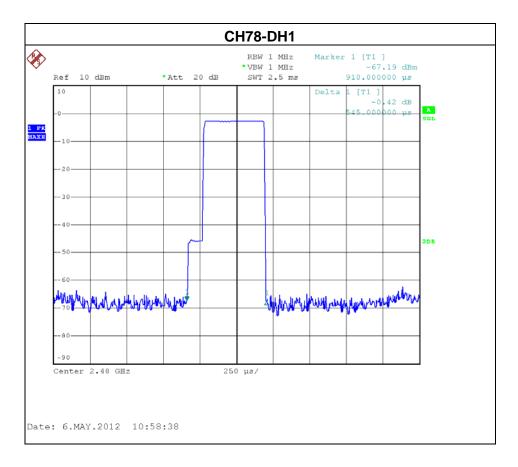


Report No.: NEI-FCCP-1-1204C117 Page 44 of 67

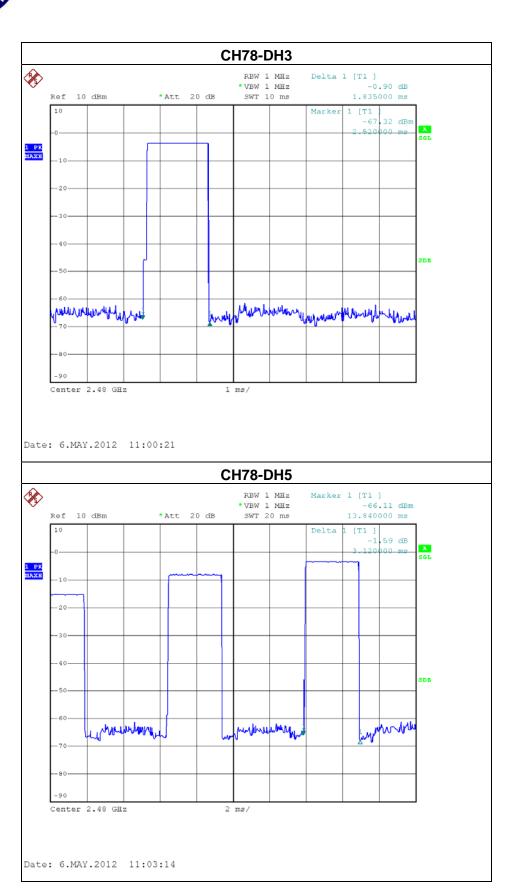


EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	25 ℃	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH78 -DH1/DH3/DH5-1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	3.1200	0.3328	0.4000
DH3	2480 MHz	1.8350	0.2936	0.4000
DH1	2480 MHz	0.5450	0.1744	0.4000



Report No.: NEI-FCCP-1-1204C117 Page 46 of 67



7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: " N/A" denotes No Model Name, Serial No. or No Calibration specified.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency > Measurement Bandwidth or Channel Separation	
RB	30 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

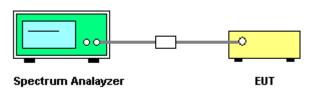
7.1.2 TEST PROCEDURE

- a. The EUT must have its hopping function enabled
- b. Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = auto Detector function = peak Trace = max hold

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

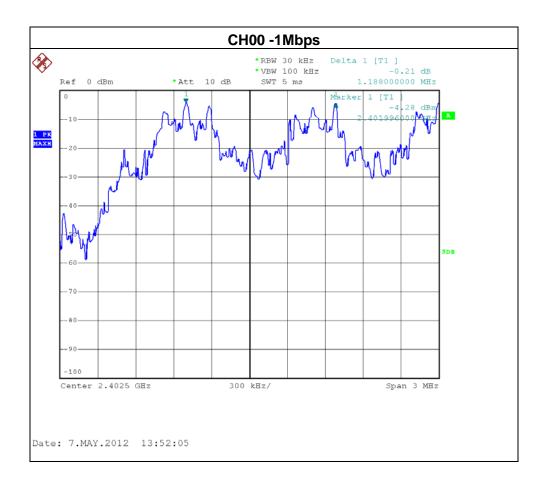
The EUT was programmed to be in hopping mode.

Report No.: NEI-FCCP-1-1204C117 Page 48 of 67

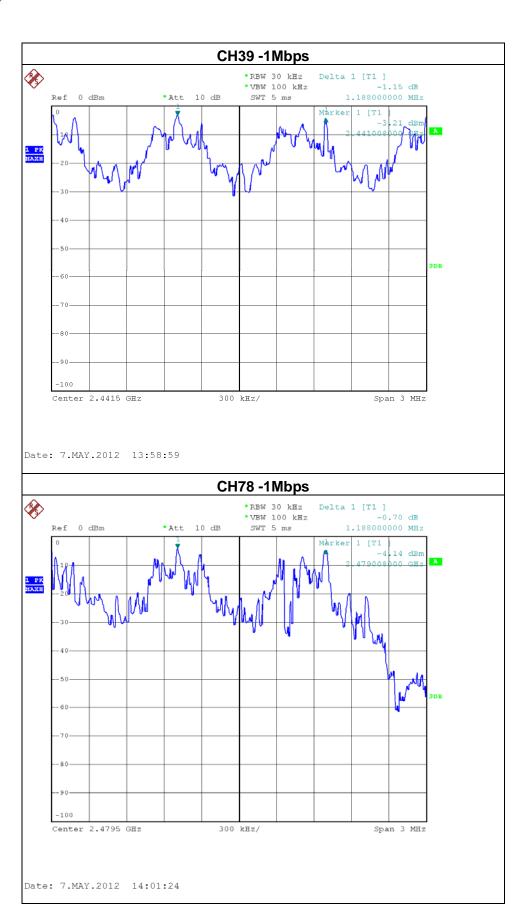
EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure :	1009 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	Ch. Separation (MHz)	20dB Bandwidth (MHz)	2/3 of 20dB bandwidth (MHz)	Result
2402 MHz	1.188	1.10	0.73	Complies
2441 MHz	1.188	1.09	0.73	Complies
2480 MHz	1.188	1.02	0.68	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth



Report No.: NEI-FCCP-1-1204C117 Page 49 of 67



8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C						
Section Test Item Limit Frequency Range (MHz) Resu							
15.247	Bandwidth	<= 1 MHz	2400-2483.5	PASS			
(a)(2)	Danuwiutii	(20dB bandwidth)	2400-2403.3	FASS			

8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

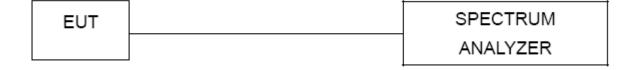
8.1.2 TEST PROCEDURE

- 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= 30KHz, VBW=100KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



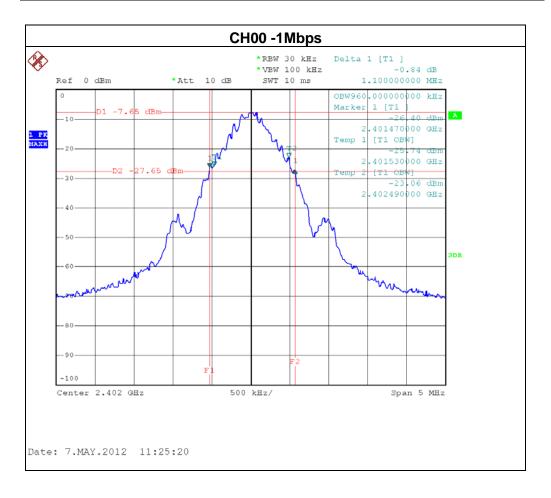
8.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

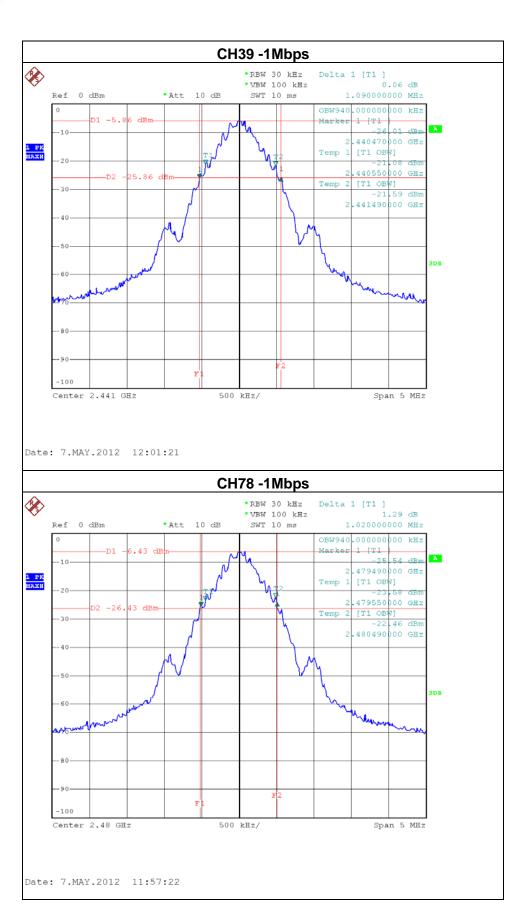
Report No.: NEI-FCCP-1-1204C117 Page 51 of 67

EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	20dB Bandwidth (KHz)	Channel Separation (MHz)	Result
2402 MHz	1100.00	<= 1MHz	PASS
2441 MHz	1090.00	<= 1MHz	PASS
2480 MHz	1020.00	<= 1MHz	PASS



Report No.: NEI-FCCP-1-1204C117 Page 52 of 67



9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247 (b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS			

9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

9.1.2 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= 3MHz, VBW= 3MHz, Sweep time = Auto.

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

9.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

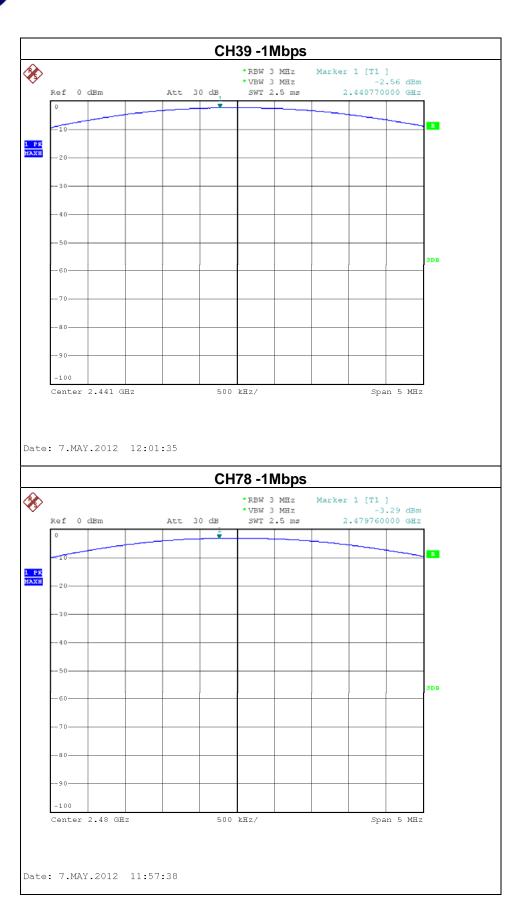
Report No.: NEI-FCCP-1-1204C117 Page 54 of 67

EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501
Temperature:	23 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH39 /CH78 -1Mbps		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	-4.31	21	0.125
CH39	2441	-2.56	21	0.125
CH78	2480	-3.29	21	0.125



Report No.: NEI-FCCP-1-1204C117 Page 55 of 67



10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

ĺ	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.25.2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

10.1.2 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=100KHz, Sweep time = Auto.

10.1.3 DEVIATION FROM STANDARD

No deviation.

10.1.4 TEST SETUP



10.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

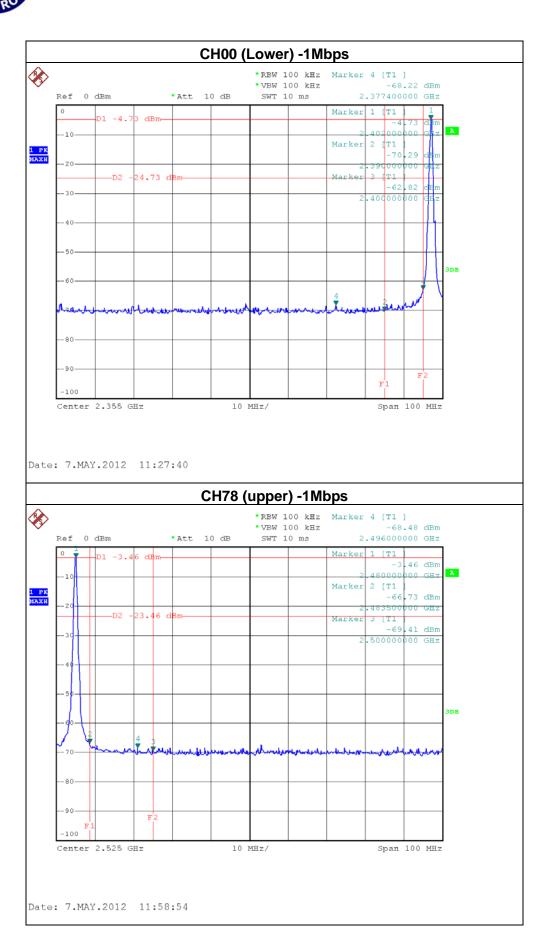
Report No.: NEI-FCCP-1-1204C117 Page 57 of 67

EUT:	Bluetooth Foldable Keyboard	Model Name :	BT1501	
Temperature:	23 ℃	Relative Humidity:	58 %	
Pressure:	1009 hPa	Test Voltage :	DC 3.7V	
Test Mode :	CH00 / CH39/ CH78-1Mbps & Hopping on mode (1Mbps)			

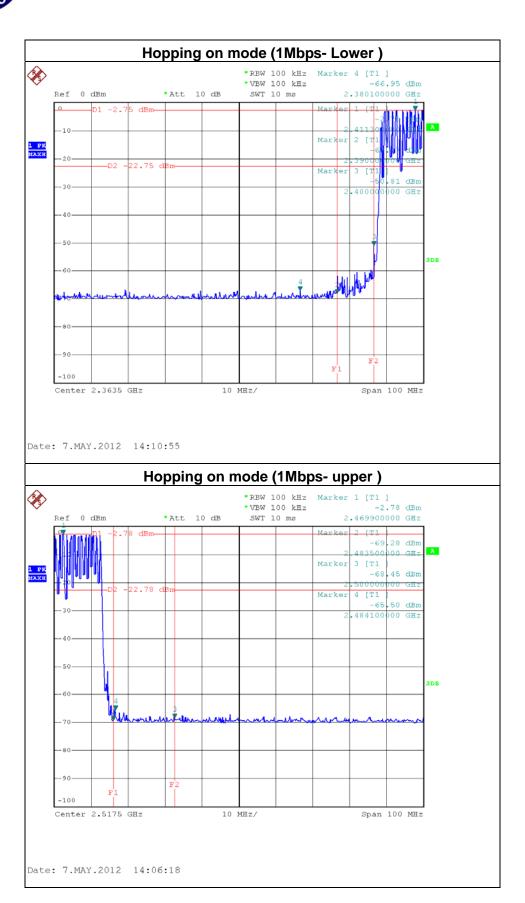
The max. radio frequency power in any 100kHz bandwidth within the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-62.82	2483.50	-66.73
	Re	sult	

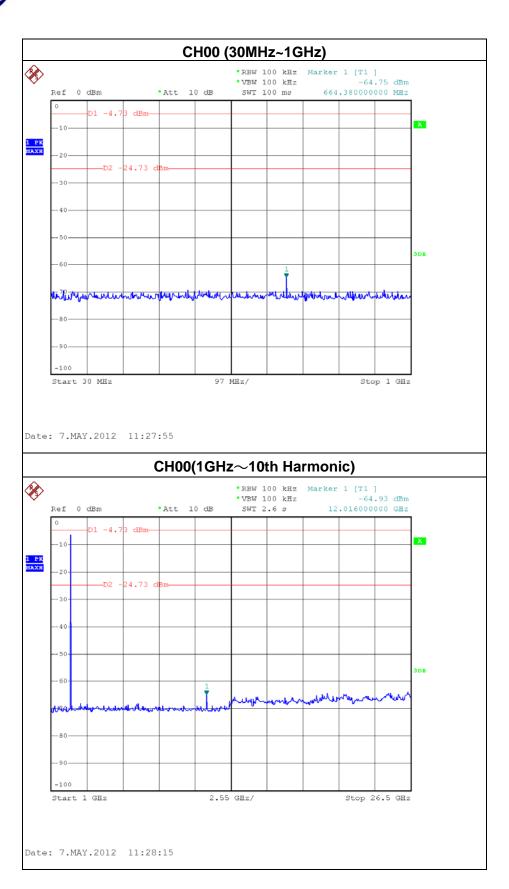
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

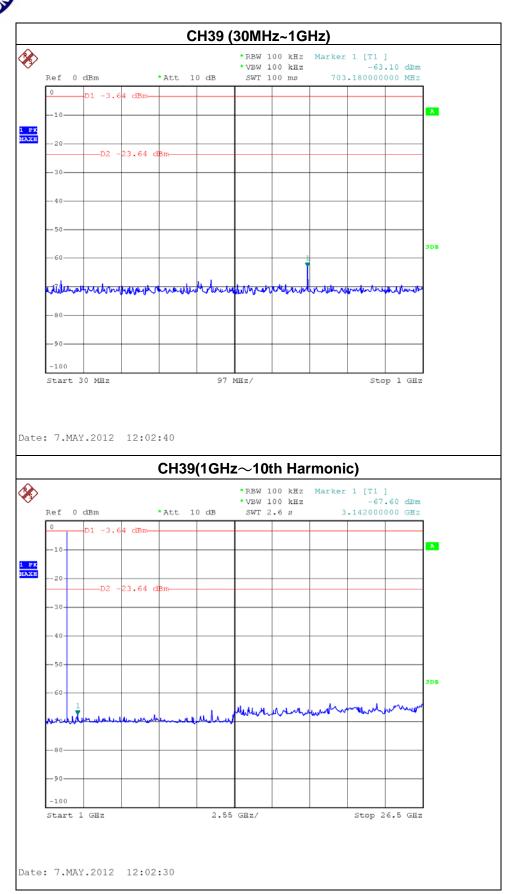
Report No.: NEI-FCCP-1-1204C117 Page 58 of 67

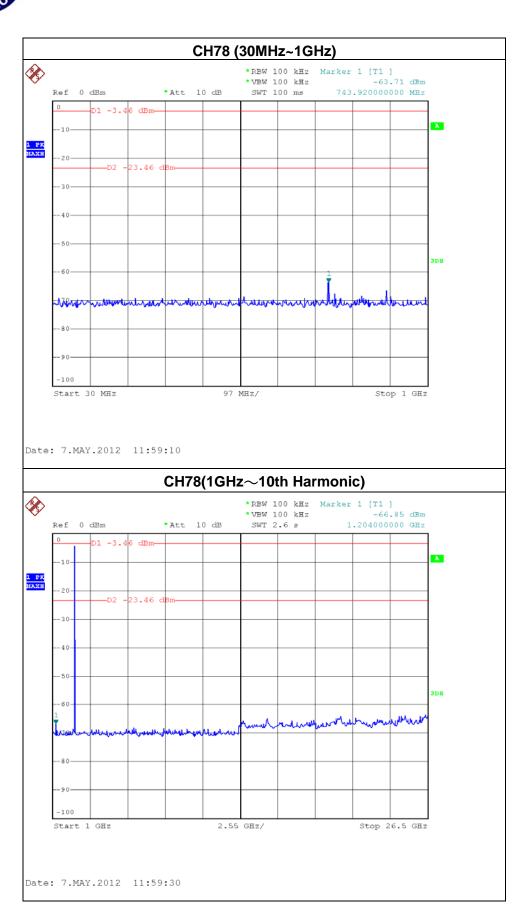


Report No.: NEI-FCCP-1-1204C117 Page 59 of 67











11. EUT TEST PHOTO

Conducted Measurement Photos Normal Link

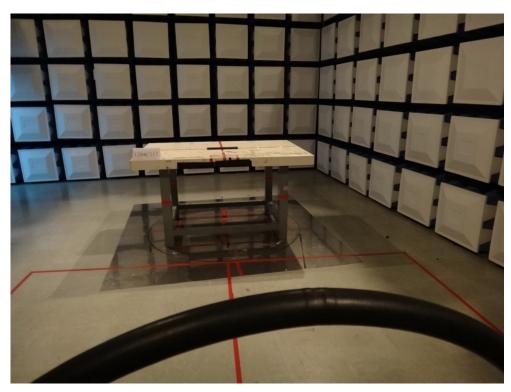




Report No.: NEI-FCCP-1-1204C117 Page 64 of 67

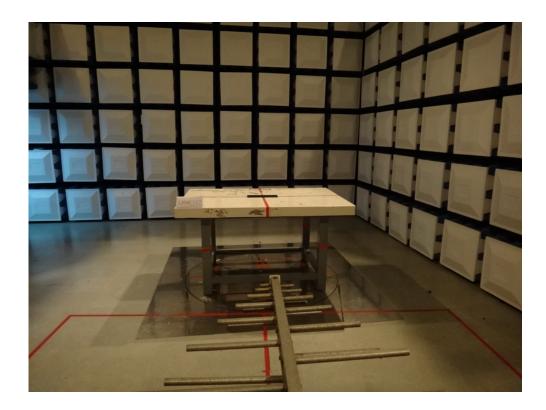
Radiated Measurement Photos 9K~30MHz

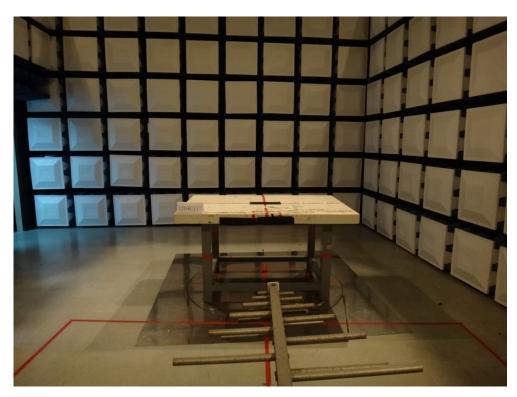




Report No.: NEI-FCCP-1-1204C117 Page 65 of 67

Radiated Measurement Photos 30MHz~1000MHz





Report No.: NEI-FCCP-1-1204C117 Page 66 of 67



Radiated Measurement Photos Above 1000MHz





Report No.: NEI-FCCP-1-1204C117 Page 67 of 67