



Declaration

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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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12. EUT TEST PHOTO

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FICP-1-1403C085	Original Issue.	Mar. 26, 2014



1. CERTIFICATION

- · ·	
Equipment :	nadi ladiet
Brand Name :	nabi
Model Name :	SNB02-NV7A
Applicant	Foxconn International Inc.
Manufacturer :	FUHU INC
Address :	909 N SEPULVEDA BLVD STE 540 EL SEGUNDO, CA 90245-2733
Factory :	Hongfujin precision industry(wuhan) Co.,Ltd.
Address :	1#,2nd GUANG GU ROAD,DONGHU NEW TECHNOLOGY DEVELOPMENT DISTRICT,WUHAN CITY,HUBEI PROVINCE,CHINA
	Mar. 13, 2014 ~ Mar. 25, 2014
Test Item :	ENGINEERING SAMPLE
Standard(s) :	FCC Part15, Subpart C : 2012 (15.247) / ANSI C63.4 : 2009 /
	FCC Public Notice DA 00-705, March 30, 2000.
	Canada RSS-210: 2010
	RSS-GEN Issue 3, Dec 2010

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-FICP-1-1403C085) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s). Neutron Engineering Inc.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): 47 CFR Part 15, Subpart C: 2012; Canada RSS-210:2010; RSS-GEN Issue 3, Dec 2010						
Standa	rd(s) Section	Test Item	ludamont	Demerk		
FCC	IC	Test Item	Judgment	Remark		
15.207	RSS-GEN Issue 3, Dec 2010 7.2.4	Conducted Emission	PASS			
15.247(d)	RSS-210, Issue 8, Annex 8, A8.5	Antenna conducted Spurious Emission	PASS			
15.247 (a)(1)	RSS-210, Issue 8, Annex 8, A8.1(b)	Hopping Channel Separation	PASS			
15.247 (b)(1)	RSS-210, Issue 8, Annex 8, A8.1(b)	Peak Output Power	PASS			
15.247(d) 15.209	RSS-210, Issue 8, Annex 8, Section 8.5	Radiated Spurious Emission	PASS			
15.247 (a)(1)(iii)	RSS-210, Issue 8, Annex 8, A8.1(d)	Number of Hopping Frequency	PASS			
15.247 (a)(1)(iii)	RSS-210, Issue 8, Annex 8, A8.1(d)	Dwell Time	PASS			
15.205	RSS-GEN Issue 3, Dec 2010 7.2.2	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.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/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

Neutron's test firm number for IC: 4428B-1

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 $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	Note
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	Note
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
	CB03 CISPR	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03		200MHz ~ 1,000MHz	V	3.86	
DG-CB03		200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	nabi Tablet				
Brand Name	nabi				
Model Name For FCC	SNB02-NV7A				
Model Difference	A model for multiple appear	ance, only differ in the color.			
	Operation Frequency	2402~2480 MHz			
	Modulation Technology	GFSK(1Mbps)			
Output Power (Max.)	Bit Rate of Transmitter	π /4-DQPSK(2Mbps) 8-DPSK(3Mbps)			
	Output Power Max.	0.07 dBm(1Mbps) 2.97 dBm(3Mbps)			
Power Source	#1 DC voltage supplied from AC adapter. Brand / Model: Chicony / W12-010N3A #2 Supplied from rechargeable Li-ion polymer battery. Brand / Model: McNair / MLP4566111				
Power Rating	0Hz 0.3A O/P: DC 5V 2A 0Wh				
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.

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2.

	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					

3 Table for Filed Antenna

	Group 1								
Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)				
1	晶鈦	AH-JT-0214N0304	PIFA	N/A	2.88				

.

Group 2

_								
	Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)		
	1	Cortec	NB0309-N2S	PIFA	N/A	1.70		

Note: Group 1 and Group 2 are same type antenna, Group 1 is recorded as the worst case since which gain is higher than Group 2.

Report No.: NEI-FICP-1-1403C085

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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	Bluetooth	

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 Bluetooth			

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

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Peak Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.
- (3) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

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	BT_TEST_FCC		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters-1Mbps	N/A	N/A	N/A
Parameters-3Mbps	N/A	N/A	N/A

	OWING THE CONFIGURATION OF SYST	EMIESTED
Conducted TX Mode:		
	EUT	
Control Room		
adiated TX Mode:	EUT	
	EUT	



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/IC	Series No.	Note
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

	Class A (dBuV)		Class B (dBuV)		Standard
Frequency (MHz)	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
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.

The following table is the setting of the receiver

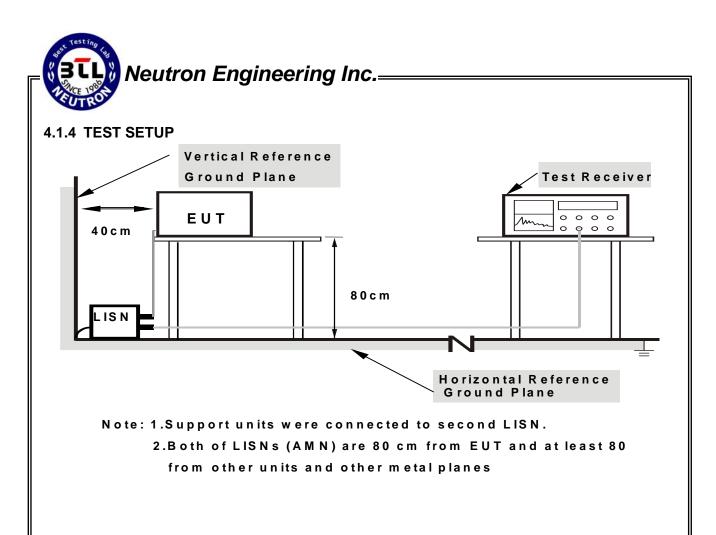
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.1.2 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.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

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 in this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.



4.3828

22.68

9.90

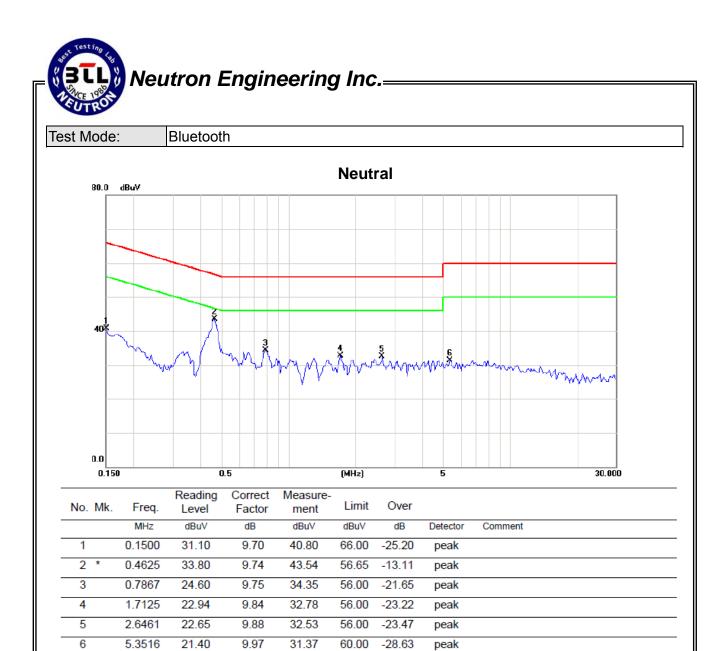
32.58

56.00

-23.42

peak

7



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4.2 RADIATED EMISSION MEASUREMENT

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

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a) & RSS-210 section 2.2& Annex 8 (A8.5), then the 15.209(a) & RSS-Gen limit in the table below has to be followed.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/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)

	dB(uV/m) (at 3 meters)	
Frequency (MHz)	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).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1 Mile / 1 Mile for Dook 1 Mile / 101/e for Average
(emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Spectrum 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		



4.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- 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.

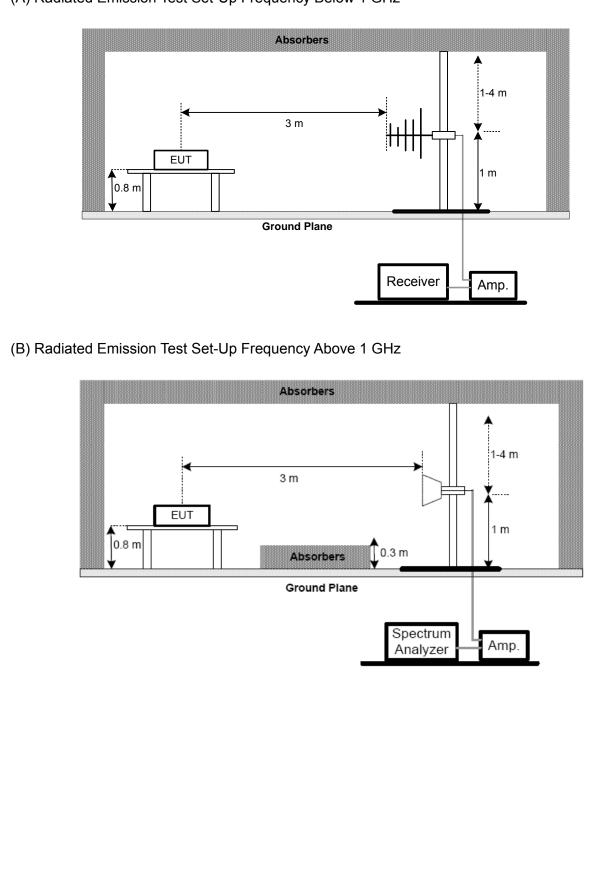
4.2.3 DEVIATION FROM TEST STANDARD

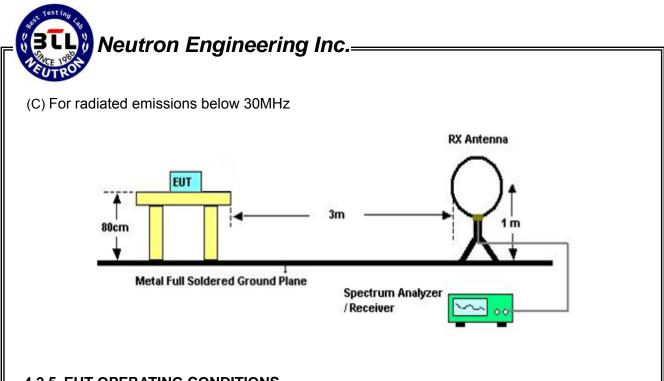
No deviation



4.2.4 TEST SETUP

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





4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5** Unless otherwise a special operating condition is specified in the follows during the testing

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 3.7V

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4.2.7 TEST RESULTS (BELOW 30MHZ)

Test Mode:	T	X Mode 2402	MHz				
Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOIC
0.0095	0°	68.38	24.30	92.68	128.08	-35.40	AV
0.0095	0°	72.32	24.30	96.62	148.08	-51.46	PK
0.0133	0°	70.38	24.30	94.68	125.13	-30.45	AV
0.0133	0°	79.34	24.30	103.64	145.13	-41.49	PK
0.0242	0°	56.32	24.03	80.35	119.93	-39.57	AV
0.0242	0°	60.15	24.03	84.18	139.93	-55.74	PK
0.0325	0°	61.32	23.51	84.83	117.37	-32.54	AV
0.0325	0°	65.34	23.51	88.85	137.37	-48.52	PK
0.5630	0°	18.75	20.00	38.75	72.59	-33.84	QP
1.7552	0°	18.91	19.52	38.43	69.54	-31.11	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
0.0094	90°	76.33	24.30	100.63	128.19	-27.56	AVG
0.0094	90°	82.38	24.30	106.68	148.19	-41.51	PK
0.0235	90°	56.33	24.08	80.41	120.18	-39.77	AVG
0.0235	90°	59.31	24.08	83.39	140.18	-56.79	PK
0.0314	90°	57.39	23.58	80.97	117.67	-36.70	AVG
0.0314	90°	58.23	23.58	81.81	137.67	-55.86	PK
0.0421	90°	59.64	22.90	82.54	115.12	-32.58	AVG
0.0421	90°	63.75	22.90	86.65	135.12	-48.47	PK
0.4917	90°	17.64	19.82	37.46	73.77	-36.31	QP
1.7158	90°	18.72	19.53	38.25	69.54	-31.29	QP

Remark:

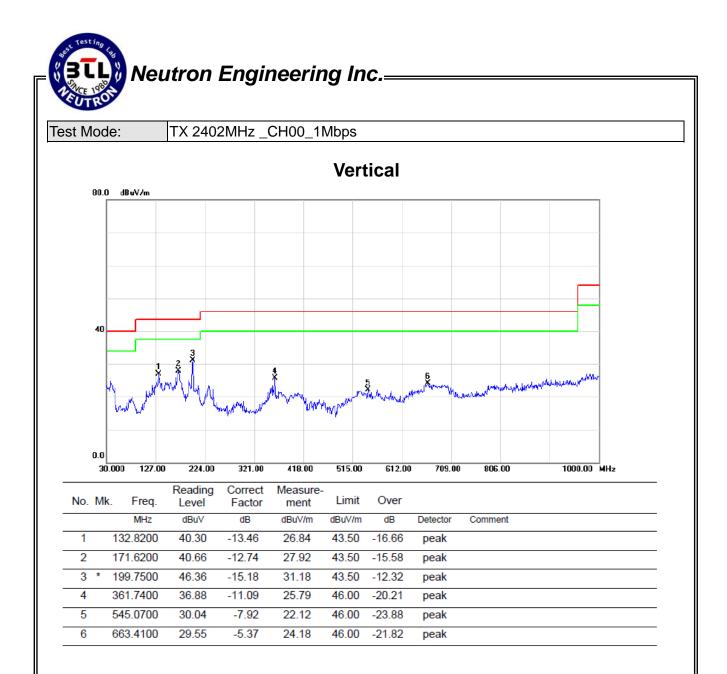
- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

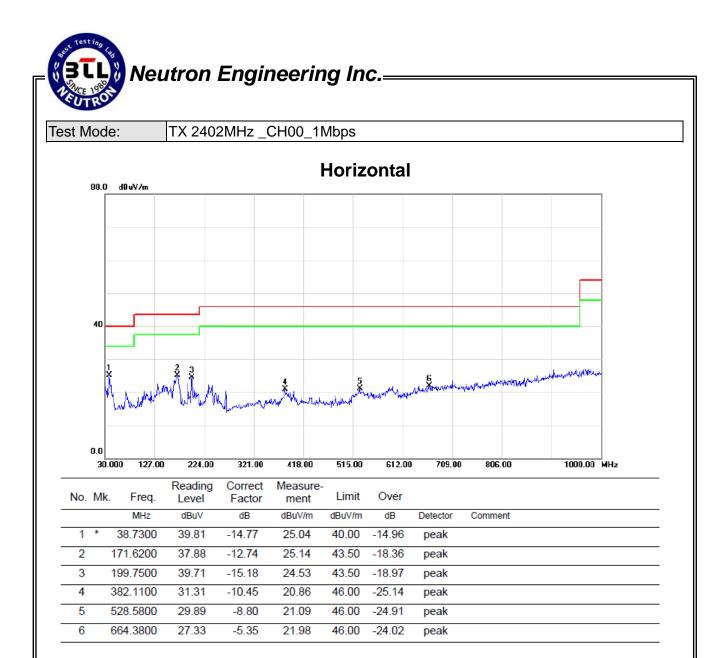


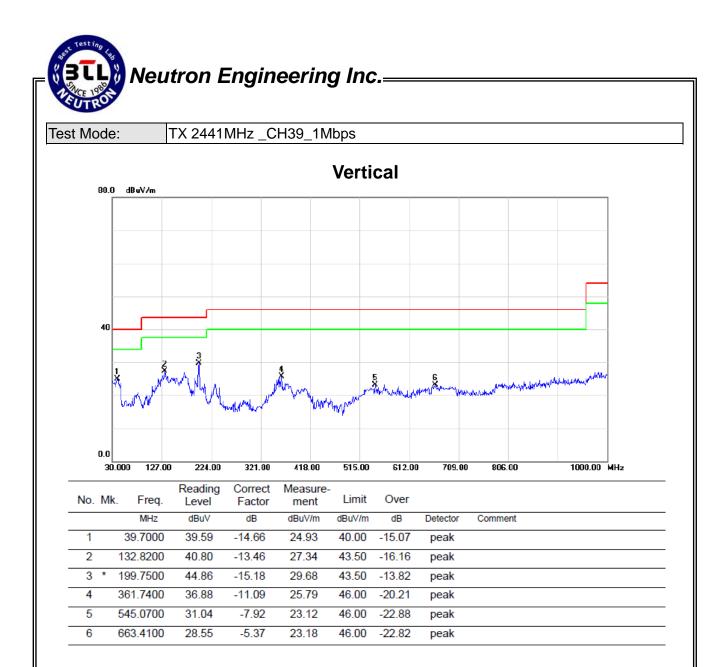
4.2.8 TEST RESULTS: 30MHZ - 1000MHZ

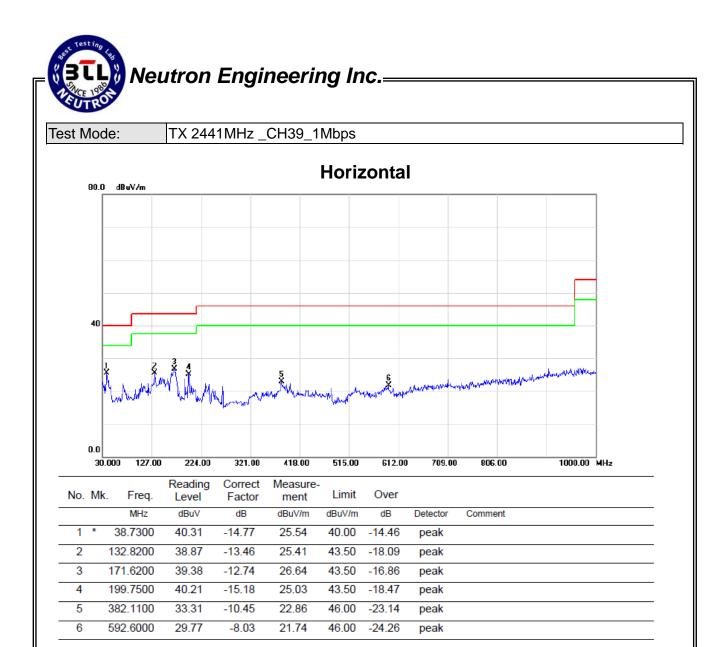
Remark:

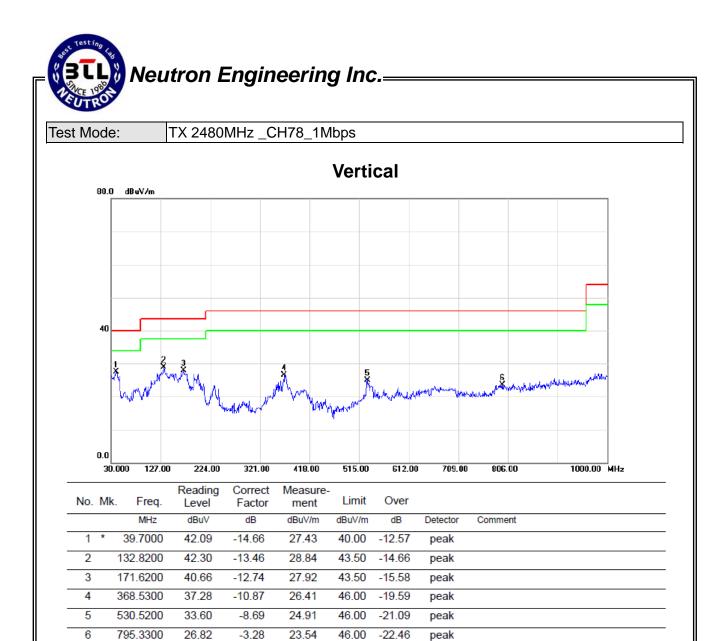
- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of "Note". Peak denotes that the Peak reading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

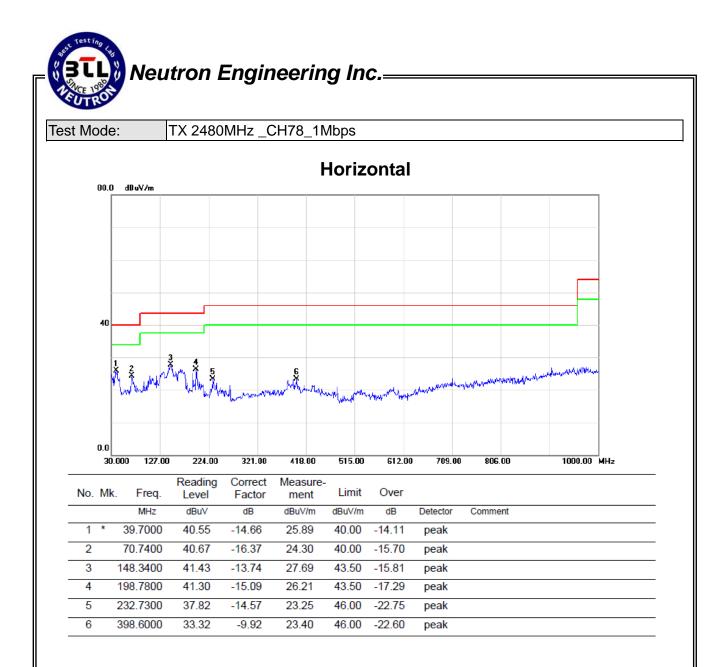














4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Remark:

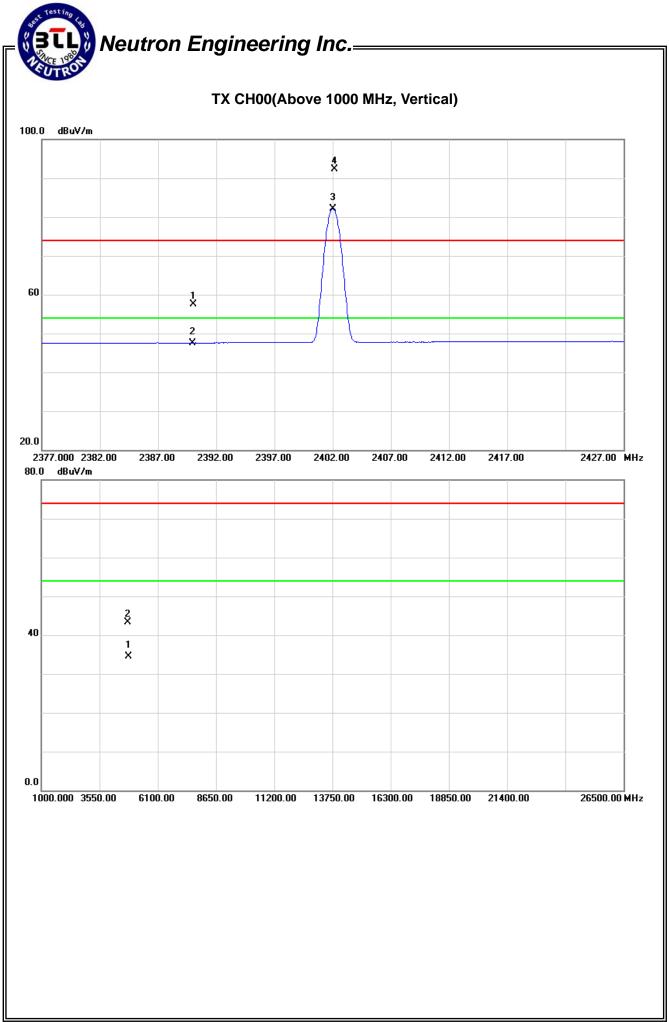
- (1) All readings are Peak unless otherwise stated QP in column of "Note". Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes 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:

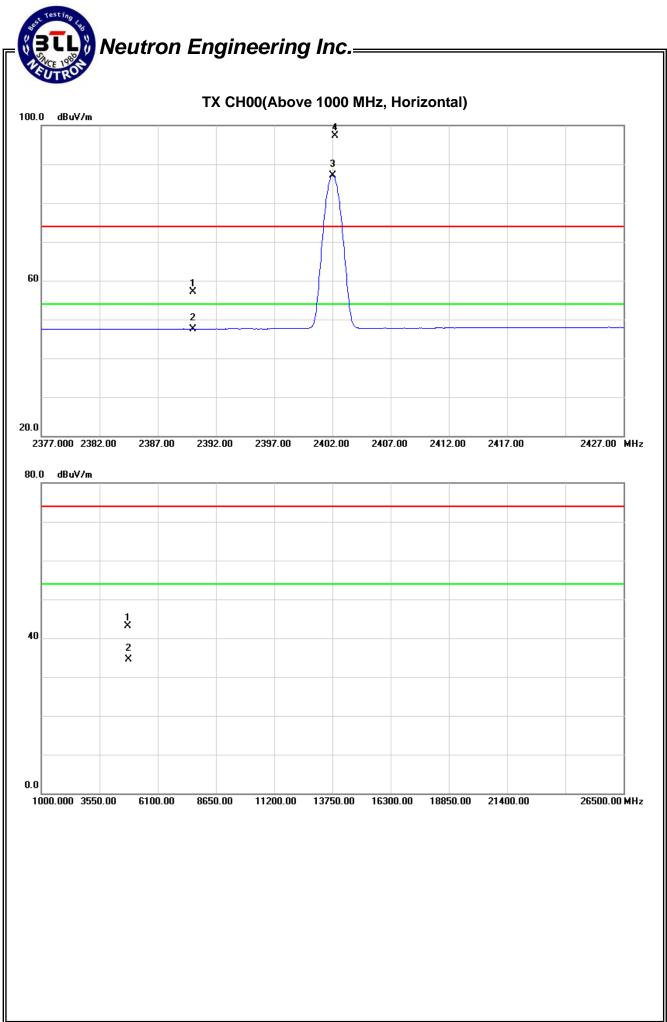
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

(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

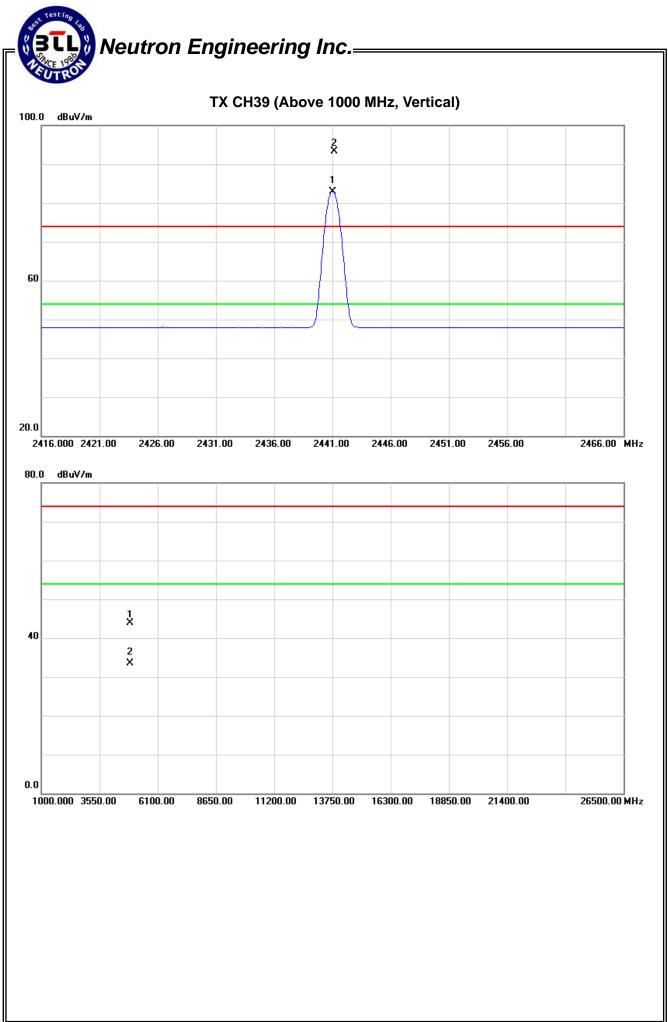
Neutron Engineering Inc.

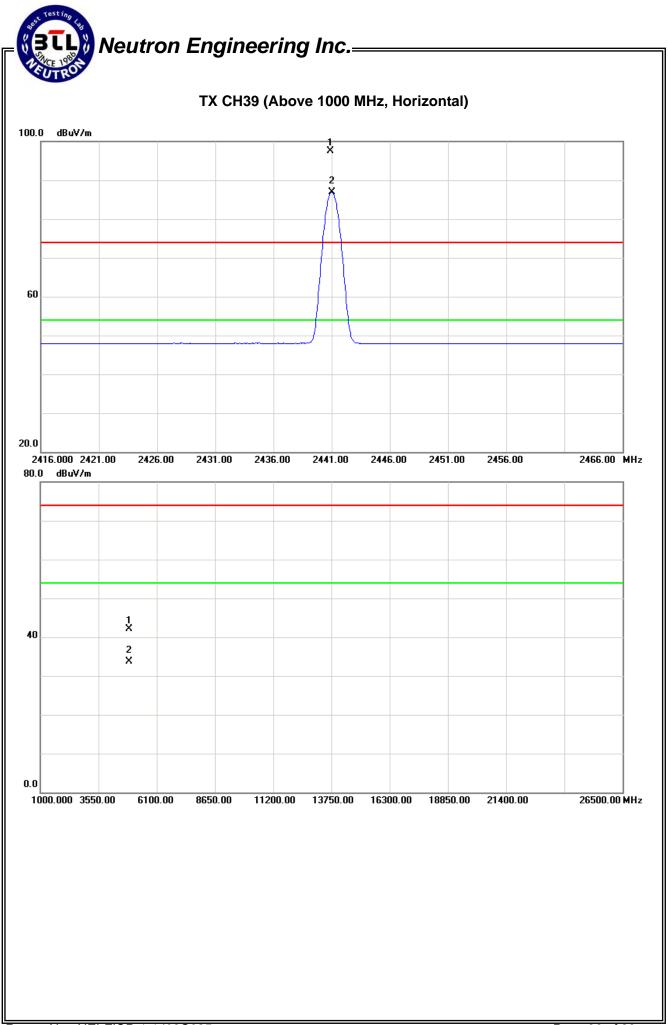
FUTRO										
Test Mode:	: T)	X 2402MH	Hz_CH0	0_1Mbps						
F		Rea	ding		A	ct.	Lir	nit		
Freq.	Ant.Pol.	Peak	ĀV	Ant./CF	Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2390.00	V	23.51	13.47	34.09	57.60	47.56	74.00	54.00	X/E	
2402.15	V	58.26	47.95	34.12	92.38	82.07			X/F	
4804.00	V	36.95	28.15	6.38	43.33	34.53	74.00	54.00	X/H	
		4				•				
_		Reading			Act.		Limit			
Freq.	Ant.Pol.	Peak	AV	Ant./CF	Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2390.00	Н	22.97	13.48	34.09	57.06	47.57	74.00	54.00	X/E	
2402.20	н	63.18	52.94	34.12	97.30	87.06			X/F	
4804.00	Н	36.77	28.19	6.38	43.15	34.57	74.00	54.00	X/H	
Test Mode:	1//	_		9_1Mbps	A	ot	Lie	it	[
Freq.	Ant.Pol.		ding	Ant./CF		ct.		nit	Not	
•	1107	Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	V/F	
2441.15	V V	59.06	48.75	34.25	93.31	83.00	74.00	54.00	X/F	
4882.00	V	37.34	26.99	6.61	43.95	33.60	74.00	54.00	X/H	
		Rea	ding		Act.		Limit			
Freq.	Ant.Pol.	Peak	AV	Ant./CF	Peak	AV	Peak AV		Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	NOU	
2440.90	H	63.18	52.66	34.25	97.43	86.91	(ubu v/m)		X/F	
4882.00	H				57.45	00.31		F 4 00		
		35.41	21.00	6.61	42.02	33.61	74.00	54.00		
		35.41	27.00	6.61	42.02	33.61	74.00	54.00		
Test Mode:	Т) Т			6.61 8_1Mbps	42.02	33.61				
		X 2480MI		8_1Mbps	42.02 A			nit	X/H	
Freq.	Ant.Pol.	X 2480MI	Hz_CH7				Lir Peak	nit AV	X/H	
Freq. (MHz)	Ant.Pol. H/V	X 2480MI Rea Peak (dBuV)	Hz _CH73 ding AV (dBuV)	8_1Mbps Ant./CF CF(dB)	Ad Peak (dBuV/m)	ct. AV (dBuV/m)	Lir	nit	X/H	
Freq. (MHz) 2479.85	Ant.Pol. H/V V	X 2480MH Rea Peak (dBuV) 57.80	Hz _CH73 ding AV (dBuV) 47.55	8_1Mbps Ant./CF CF(dB) 34.36	Ad Peak (dBuV/m) 92.16	ct. AV (dBuV/m) 81.91	Lir Peak (dBuV/m)	mit AV (dBuV/m)	X/H Note	
Freq. (MHz) 2479.85 2483.50	Ant.Pol. H/V V V	X 2480Mł Rea Peak (dBuV) 57.80 22.59	Hz _CH73 ding AV (dBuV) 47.55 13.51	8_1Mbps Ant./CF CF(dB) 34.36 34.37	Ad Peak (dBuV/m) 92.16 56.96	ct. AV (dBuV/m) 81.91 47.88	Lir Peak (dBuV/m) 74.00	mit AV (dBuV/m) 54.00	X/H Note X/F X/E	
Freq. (MHz) 2479.85	Ant.Pol. H/V V	X 2480MH Rea Peak (dBuV) 57.80	Hz _CH73 ding AV (dBuV) 47.55	8_1Mbps Ant./CF CF(dB) 34.36	Ad Peak (dBuV/m) 92.16	ct. AV (dBuV/m) 81.91	Lir Peak (dBuV/m)	mit AV (dBuV/m)	X/H Note X/F X/E	
Freq. (MHz) 2479.85 2483.50	Ant.Pol. H/V V V	X 2480Mł Rea Peak (dBuV) 57.80 22.59 35.69	Hz _CH73 ding AV (dBuV) 47.55 13.51 26.70	8_1Mbps Ant./CF CF(dB) 34.36 34.37	Ac Peak (dBuV/m) 92.16 56.96 42.52	ct. AV (dBuV/m) 81.91 47.88 33.53	Lir Peak (dBuV/m) 74.00 74.00	nit AV (dBuV/m) 54.00 54.00	X/H Note X/F	
Freq. (MHz) 2479.85 2483.50 4960.00	Ant.Pol. H/V V V	X 2480Mł Rea Peak (dBuV) 57.80 22.59 35.69	Hz _CH73 ding AV (dBuV) 47.55 13.51 26.70 ding	8_1Mbps Ant./CF CF(dB) 34.36 34.37 6.83	Ac Peak (dBuV/m) 92.16 56.96 42.52 Ac	ct. AV (dBuV/m) 81.91 47.88 33.53 ct.	Lir Peak (dBuV/m) 74.00 74.00 Lir	mit AV (dBuV/m) 54.00 54.00 mit	X/H Note X/F X/E X/H	
Freq. (MHz) 2479.85 2483.50 4960.00 Freq.	Ant.Pol. H/V V V V Ant.Pol.	X 2480MH Rea Peak (dBuV) 57.80 22.59 35.69 Rea Peak	Hz _CH78 ding AV (dBuV) 47.55 13.51 26.70 ding AV	8_1Mbps Ant./CF CF(dB) 34.36 34.37 6.83	Ac Peak (dBuV/m) 92.16 56.96 42.52 Ac Peak	ct. AV (dBuV/m) 81.91 47.88 33.53 ct. AV	Lir Peak (dBuV/m) 74.00 74.00 Lir Peak	mit AV (dBuV/m) 54.00 54.00 mit AV	X/H Note X/F X/E X/H	
Freq. (MHz) 2479.85 2483.50 4960.00 Freq. (MHz)	Ant.Pol. H/V V V Ant.Pol. H/V	X 2480MI Rea Peak (dBuV) 57.80 22.59 35.69 Rea Peak (dBuV)	Hz _CH73 ding AV (dBuV) 47.55 13.51 26.70 ding AV (dBuV)	8_1Mbps Ant./CF CF(dB) 34.36 34.37 6.83 Ant./CF CF(dB)	Ad Peak (dBuV/m) 92.16 56.96 42.52 Ad Peak (dBuV/m)	ct. AV (dBuV/m) 81.91 47.88 33.53 ct. AV (dBuV/m)	Lir Peak (dBuV/m) 74.00 74.00 Lir	mit AV (dBuV/m) 54.00 54.00 mit	X/H Note X/F X/E X/H	
Freq. (MHz) 2479.85 2483.50 4960.00 Freq. (MHz) 2479.90	Ant.Pol. H/V V V Ant.Pol. H/V H	X 2480MH Rea Peak (dBuV) 57.80 22.59 35.69 Rea Peak (dBuV) 62.08	Hz _CH73 ding AV (dBuV) 47.55 13.51 26.70 ding AV (dBuV) 51.76	8_1Mbps Ant./CF CF(dB) 34.36 34.37 6.83 Ant./CF CF(dB) 34.36	Ac Peak (dBuV/m) 92.16 56.96 42.52 Ac Peak (dBuV/m) 96.44	ct. AV (dBuV/m) 81.91 47.88 33.53 ct. AV (dBuV/m) 86.12	Lir Peak (dBuV/m) 74.00 74.00 Lir Peak (dBuV/m)	mit AV (dBuV/m) 54.00 54.00 mit AV (dBuV/m)	X/H Note X/F X/H Note	
Freq. (MHz) 2479.85 2483.50 4960.00 Freq. (MHz)	Ant.Pol. H/V V V Ant.Pol. H/V	X 2480MI Rea Peak (dBuV) 57.80 22.59 35.69 Rea Peak (dBuV)	Hz _CH73 ding AV (dBuV) 47.55 13.51 26.70 ding AV (dBuV)	8_1Mbps Ant./CF CF(dB) 34.36 34.37 6.83 Ant./CF CF(dB)	Ad Peak (dBuV/m) 92.16 56.96 42.52 Ad Peak (dBuV/m)	ct. AV (dBuV/m) 81.91 47.88 33.53 ct. AV (dBuV/m)	Lir Peak (dBuV/m) 74.00 74.00 Lir Peak	mit AV (dBuV/m) 54.00 54.00 mit AV	X/H Note X/F X/H Note X/F X/E X/F	

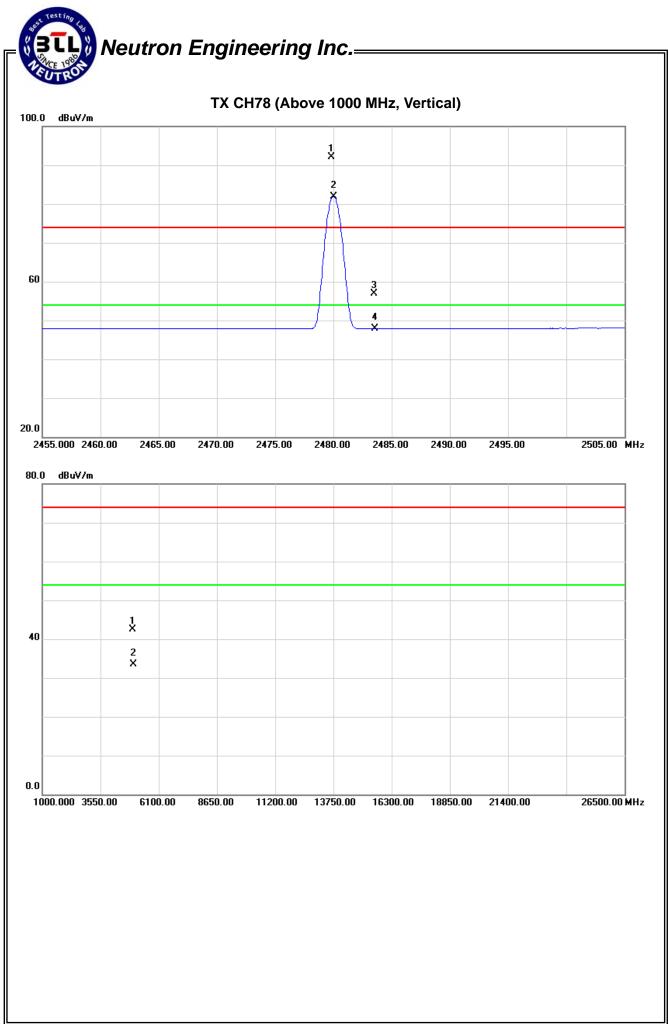


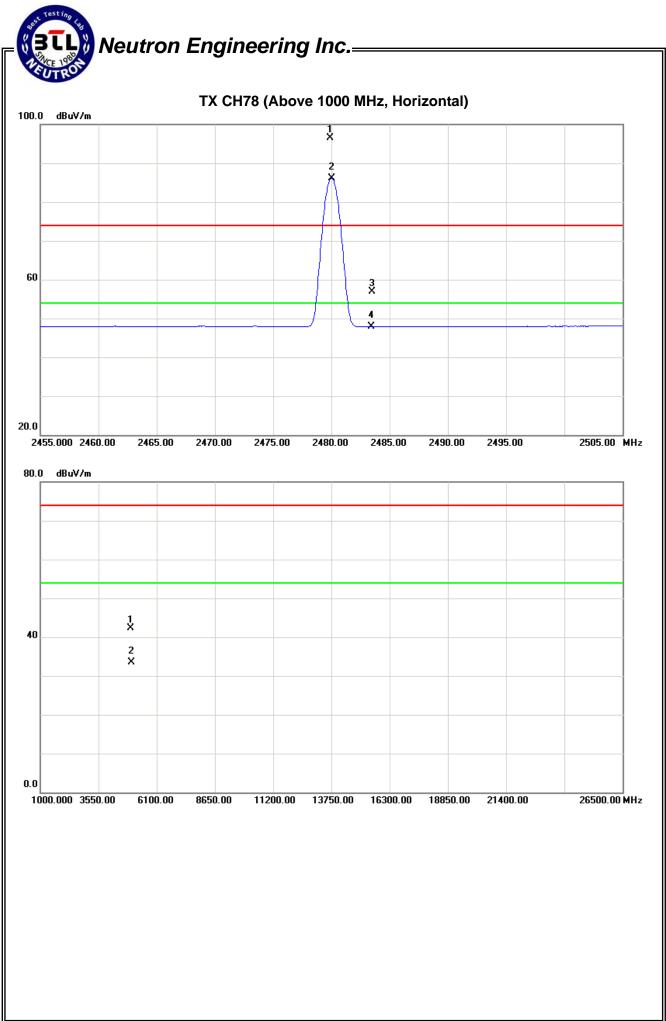


Report No.: NEI-FICP-1-1403C085

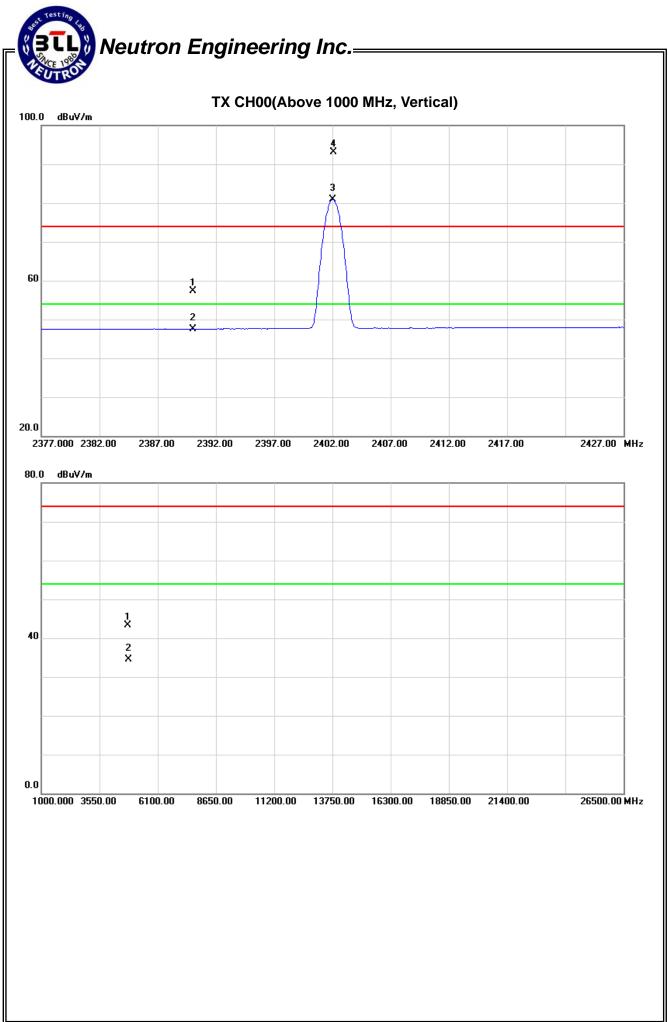


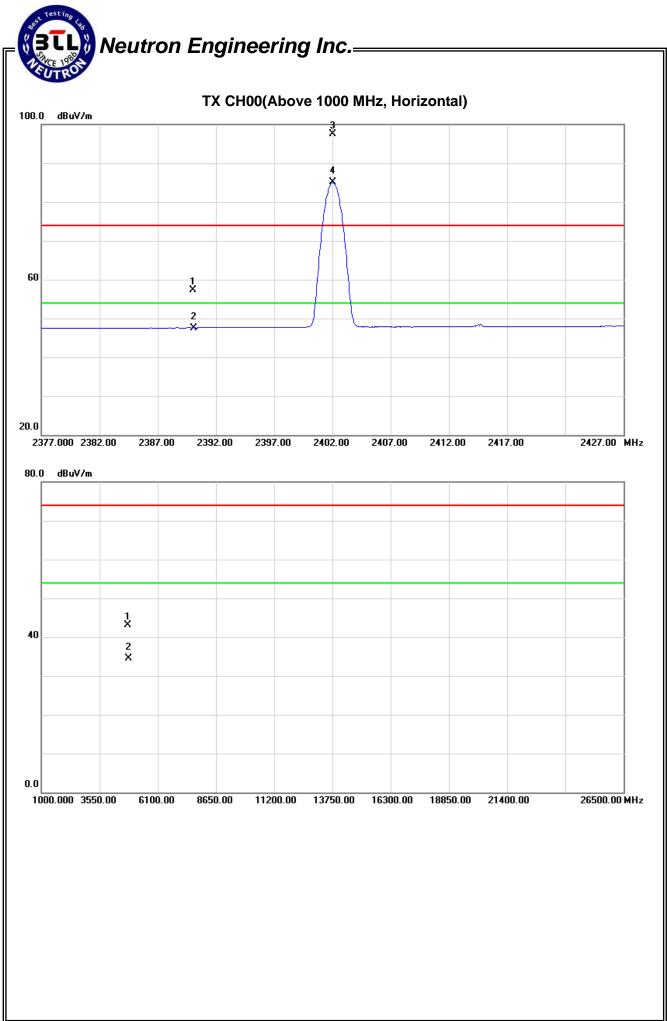


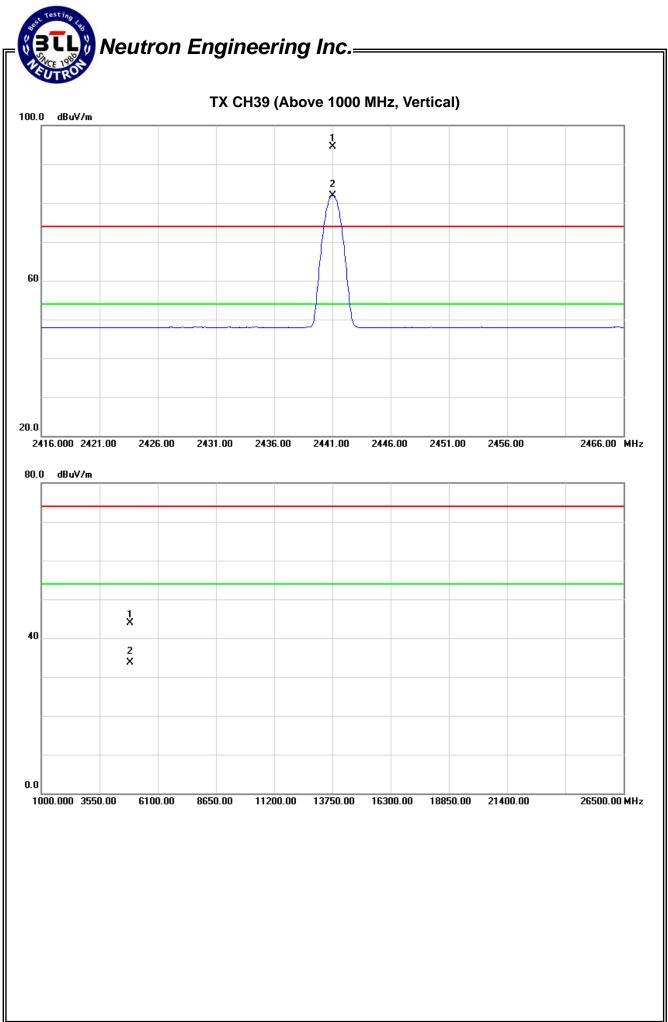


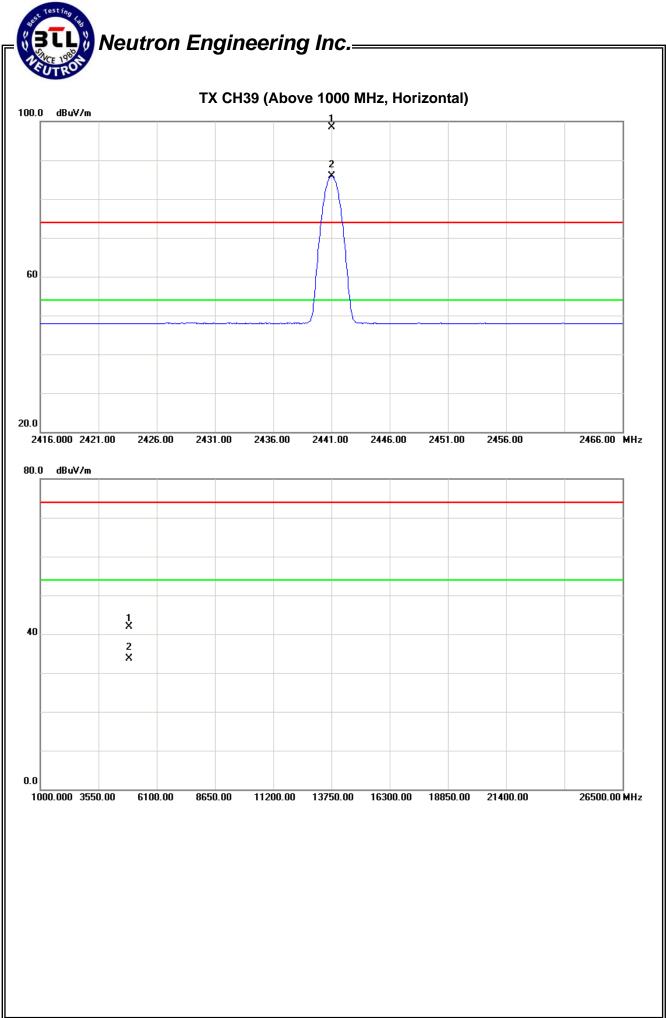


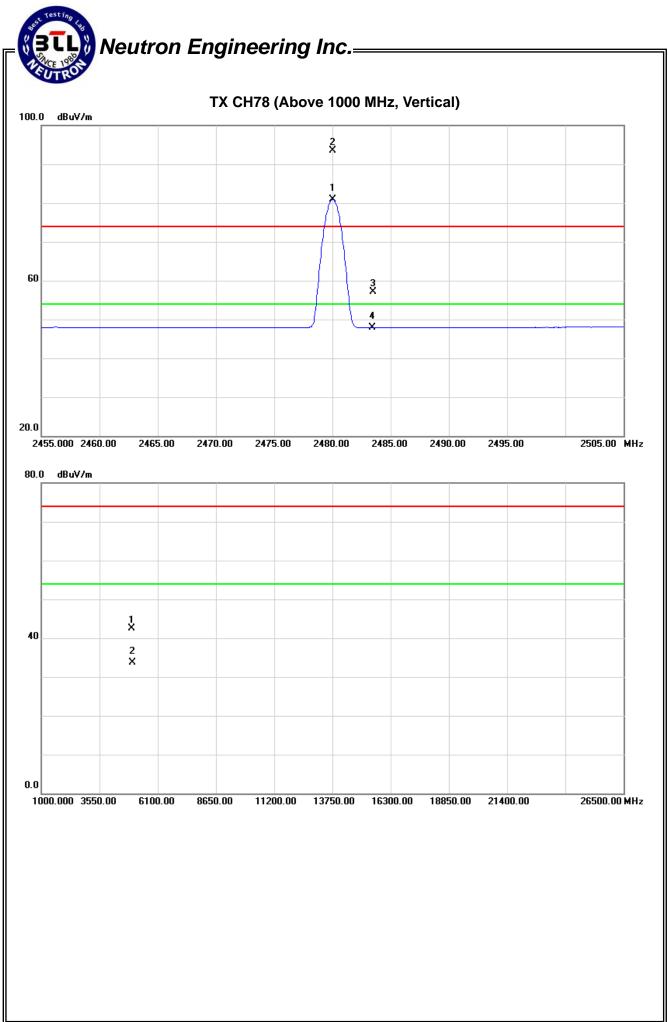
Test Mode:	ТУ	< 2402MH	Hz_CH0	0_3Mbps					
_		Rea	dina		Ad	ct.	Lir	mit	
Freq.	Ant.Pol.	Peak	AV	Ant./CF	Peak	AV	Peak	AV	Not
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	23.17	13.46	34.09	57.26	47.55	(dBd V/III) 74.00	54.00	X/E
	v			34.09 34.12	93.18	80.95	74.00	04.00	
2402.10		59.06	46.83				74.00	54.00	X/F
4804.00	V	36.97	28.18	6.38	43.35	34.56	74.00	54.00	X/⊦
	1	Rea	dina		Ad	ot	Lir	mit	
Freq.	Ant.Pol.	Peak	AV	Ant./CF	Peak	AV	Peak	AV	Not
	H/V	(dBuV)	(dBuV)			dBuV/m)		dBuV/m)	NUU
(MHz)		· · · /	<u>``</u>	CF(dB)	(dBuV/m)	· · · · · · · · · · · · · · · · · · ·	(dBuV/m)		V/E
2390.00	н	23.12	13.50	34.09	57.21	47.59	74.00	54.00	X/E
2402.00	н	63.29	50.90	34.12	97.41	85.02		- :	X/F
4804.00	Н	36.73	28.19	6.38	43.11	34.57	74.00	54.00	X/H
Test Mada	T\	/ 0 / / / N/I		0.01/hpg					
Test Mode:	17	(24411/1		9_3Mbps					
		·							
Freq.	Ant.Pol.	Rea		Ant./CF	Ac			mit	
Fieq.	Ant.r oi.	Peak	AV	Ant./Or	Peak	AV	Peak	AV	Not
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.00	V	60.19	47.73	34.25	94.44	81.98			X/F
4882.00	V	37.36	27.05	6.61	43.97	33.66	74.00	54.00	X/F
4002.00	<u> </u>	01.00	21.00	0.01	-0.07	00.00	77.00	04.00	7.11
							1		
	T	Rea	dina	I	Δ	~ t	Lir	nit	
Freq.	Ant.Pol.	Rea	-	Ant./CF	Ac		Lir		Not
•		Peak	AV		Peak	AV	Peak	AV	Not
(MHz)	H/V	Peak (dBuV)	AV (dBuV)	CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
(MHz) 2441.00	H/V H	Peak (dBuV) 64.18	AV (dBuV) 51.67	CF(dB) 34.25	Peak (dBuV/m) 98.43	AV (dBuV/m) 85.92	Peak (dBuV/m)	AV (dBuV/m)	Not
(MHz)	H/V	Peak (dBuV)	AV (dBuV)	CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Peak	AV	
(MHz) 2441.00	H/V H	Peak (dBuV) 64.18	AV (dBuV) 51.67	CF(dB) 34.25	Peak (dBuV/m) 98.43	AV (dBuV/m) 85.92	Peak (dBuV/m)	AV (dBuV/m)	X/F
(MHz) 2441.00 4882.00	H/V H H	Peak (dBuV) 64.18 35.35	AV (dBuV) 51.67 27.00	CF(dB) 34.25 6.61	Peak (dBuV/m) 98.43	AV (dBuV/m) 85.92	Peak (dBuV/m)	AV (dBuV/m)	X/F
(MHz) 2441.00	H/V H H	Peak (dBuV) 64.18 35.35	AV (dBuV) 51.67 27.00	CF(dB) 34.25	Peak (dBuV/m) 98.43	AV (dBuV/m) 85.92	Peak (dBuV/m)	AV (dBuV/m)	X/F
(MHz) 2441.00 4882.00	H/V H H	Peak (dBuV) 64.18 35.35	AV (dBuV) 51.67 27.00	CF(dB) 34.25 6.61	Peak (dBuV/m) 98.43	AV (dBuV/m) 85.92	Peak (dBuV/m)	AV (dBuV/m)	X/F
(MHz) 2441.00 4882.00 Test Mode:	H/V H H T>	Peak (dBuV) 64.18 35.35	AV (dBuV) 51.67 27.00 Hz _CH7	CF(dB) 34.25 6.61 8_3Mbps	Peak (dBuV/m) 98.43 41.96	AV (dBuV/m) 85.92	Peak (dBuV/m) 74.00	AV (dBuV/m)	X/F
(MHz) 2441.00 4882.00	H/V H H	Peak (dBuV) 64.18 35.35 (2480MH Rea	AV (dBuV) 51.67 27.00 Hz _CH73 ding	CF(dB) 34.25 6.61	Peak (dBuV/m) 98.43 41.96	AV (dBuV/m) 85.92 33.61	Peak (dBuV/m) 74.00 Lir	AV (dBuV/m) 54.00	X/F X/F
(MHz) 2441.00 4882.00 Test Mode: Freq.	H/V H H	Peak (dBuV) 64.18 35.35 (2480MH Rea Peak	AV (dBuV) 51.67 27.00 Hz _CH73 ding AV	CF(dB) 34.25 6.61 8_3Mbps Ant./CF	Peak (dBuV/m) 98.43 41.96 Ac Peak	AV (dBuV/m) 85.92 33.61	Peak (dBuV/m) 74.00 Lir Peak	AV (dBuV/m) 54.00 mit AV	X/F X/F
(MHz) 2441.00 4882.00 Test Mode: Freq. (MHz)	H/V H H T> Ant.Pol. H/V	Peak (dBuV) 64.18 35.35 (2480MH Rea Peak (dBuV)	AV (dBuV) 51.67 27.00 Hz _CH73 ding AV (dBuV)	CF(dB) 34.25 6.61 8_3Mbps Ant./CF CF(dB)	Peak (dBuV/m) 98.43 41.96 Ad Peak (dBuV/m)	AV (dBuV/m) 85.92 33.61 ct. AV (dBuV/m)	Peak (dBuV/m) 74.00 Lir	AV (dBuV/m) 54.00	X/F X/F
(MHz) 2441.00 4882.00 Test Mode: Freq. (MHz) 2480.00	H/V H H T> Ant.Pol. H/V V	Peak (dBuV) 64.18 35.35 (2480MH Rea Peak (dBuV) 59.05	AV (dBuV) 51.67 27.00 Hz _CH73 ding AV (dBuV) 46.58	CF(dB) 34.25 6.61 8_3Mbps Ant./CF CF(dB) 34.36	Peak (dBuV/m) 98.43 41.96 Ad Peak (dBuV/m) 93.41	AV (dBuV/m) 85.92 33.61 ct. AV (dBuV/m) 80.94	Peak (dBuV/m) 74.00 Lir Peak (dBuV/m)	AV (dBuV/m) 54.00 mit AV (dBuV/m)	X/F
(MHz) 2441.00 4882.00 Test Mode: Freq. (MHz) 2480.00 2483.50	H/V H H Ant.Pol. H/V V	Peak (dBuV) 64.18 35.35 (2480MH Rea Peak (dBuV) 59.05 22.76	AV (dBuV) 51.67 27.00 Hz _CH73 ding AV (dBuV) 46.58 13.48	CF(dB) 34.25 6.61 8_3Mbps Ant./CF CF(dB) 34.36 34.37	Peak (dBuV/m) 98.43 41.96 Ac Peak (dBuV/m) 93.41 57.13	AV (dBuV/m) 85.92 33.61 ct. AV (dBuV/m) 80.94 47.85	Peak (dBuV/m) 74.00 Lir Peak (dBuV/m) 74.00	AV (dBuV/m) 54.00 mit AV (dBuV/m) 54.00	X/F X/F Not X/F X/E
(MHz) 2441.00 4882.00 Test Mode: Freq. (MHz) 2480.00	H/V H H T> Ant.Pol. H/V V	Peak (dBuV) 64.18 35.35 (2480MH Rea Peak (dBuV) 59.05	AV (dBuV) 51.67 27.00 Hz _CH73 ding AV (dBuV) 46.58	CF(dB) 34.25 6.61 8_3Mbps Ant./CF CF(dB) 34.36	Peak (dBuV/m) 98.43 41.96 Ad Peak (dBuV/m) 93.41	AV (dBuV/m) 85.92 33.61 ct. AV (dBuV/m) 80.94	Peak (dBuV/m) 74.00 Lir Peak (dBuV/m)	AV (dBuV/m) 54.00 mit AV (dBuV/m)	X/F
(MHz) 2441.00 4882.00 Test Mode: Freq. (MHz) 2480.00 2483.50	H/V H H Ant.Pol. H/V V	Peak (dBuV) 64.18 35.35 (2480MH Rea Peak (dBuV) 59.05 22.76 35.72	AV (dBuV) 51.67 27.00 Hz _CH73 ding AV (dBuV) 46.58 13.48 26.78	CF(dB) 34.25 6.61 8_3Mbps Ant./CF CF(dB) 34.36 34.37	Peak (dBuV/m) 98.43 41.96 Ac Peak (dBuV/m) 93.41 57.13 42.55	AV (dBuV/m) 85.92 33.61 ct. AV (dBuV/m) 80.94 47.85 33.61	Peak (dBuV/m) 74.00 Lir Peak (dBuV/m) 74.00 74.00	AV (dBuV/m) 54.00 mit AV (dBuV/m) 54.00 54.00	X/I X/I Not
(MHz) 2441.00 4882.00 Test Mode: Freq. (MHz) 2480.00 2483.50	H/V H H Ant.Pol. H/V V	Peak (dBuV) 64.18 35.35 (2480MH Rea Peak (dBuV) 59.05 22.76 35.72 Rea	AV (dBuV) 51.67 27.00 Hz _CH73 ding AV (dBuV) 46.58 13.48 26.78 ding	CF(dB) 34.25 6.61 8_3Mbps Ant./CF CF(dB) 34.36 34.37	Peak (dBuV/m) 98.43 41.96 Ac Peak (dBuV/m) 93.41 57.13 42.55 Ac	AV (dBuV/m) 85.92 33.61 ct. AV (dBuV/m) 80.94 47.85 33.61 ct.	Peak (dBuV/m) 74.00 Lir Peak (dBuV/m) 74.00 74.00	AV (dBuV/m) 54.00 mit AV (dBuV/m) 54.00 54.00	X/I X/I Not X/I X/I
(MHz) 2441.00 4882.00 Test Mode: Freq. (MHz) 2480.00 2483.50 4960.00 Freq.	H/V H H Ant.Pol. H/V V V V Ant.Pol.	Peak (dBuV) 64.18 35.35 (2480MH Rea Peak (dBuV) 59.05 22.76 35.72 Rea Peak	AV (dBuV) 51.67 27.00 Hz _CH73 ding AV (dBuV) 46.58 13.48 26.78 ding AV	CF(dB) 34.25 6.61 8_3Mbps Ant./CF CF(dB) 34.36 34.37 6.83	Peak (dBuV/m) 98.43 41.96 Ac Peak (dBuV/m) 93.41 57.13 42.55 Ac Peak	AV (dBuV/m) 85.92 33.61 ct. AV (dBuV/m) 80.94 47.85 33.61 ct. AV	Peak (dBuV/m) 74.00 Lir Peak (dBuV/m) 74.00 74.00 Lir Peak	AV (dBuV/m) 54.00 mit AV (dBuV/m) 54.00 54.00 mit AV	X/I X/I Not X/I X/I
(MHz) 2441.00 4882.00 Test Mode: Freq. (MHz) 2480.00 2483.50 4960.00 Freq. (MHz)	H/V H H Ant.Pol. H/V V V V V Ant.Pol. H/V	Peak (dBuV) 64.18 35.35 (2480MH Rea Peak (dBuV) 59.05 22.76 35.72 Rea Peak (dBuV)	AV (dBuV) 51.67 27.00 Hz _CH73 ding AV (dBuV) 46.58 13.48 26.78 ding AV (dBuV)	CF(dB) 34.25 6.61 8_3Mbps Ant./CF CF(dB) 34.36 34.37 6.83 Ant./CF CF(dB)	Peak (dBuV/m) 98.43 41.96 Ac Peak (dBuV/m) 93.41 57.13 42.55 Ac Peak (dBuV/m)	AV (dBuV/m) 85.92 33.61 ct. AV (dBuV/m) 80.94 47.85 33.61 ct. AV (dBuV/m)	Peak (dBuV/m) 74.00 Lir Peak (dBuV/m) 74.00 74.00	AV (dBuV/m) 54.00 mit AV (dBuV/m) 54.00 54.00	X/I X/I Not X/I X/I
(MHz) 2441.00 4882.00 Test Mode: Freq. (MHz) 2483.50 4960.00 Freq. (MHz) 2480.00	H/V H H Ant.Pol. H/V V V V Ant.Pol. H/V H	Peak (dBuV) 64.18 35.35 (2480MH Rea Peak (dBuV) 59.05 22.76 35.72 Rea Peak (dBuV) 63.26	AV (dBuV) 51.67 27.00 Hz _CH73 ding AV (dBuV) 46.58 13.48 26.78 ding AV (dBuV) 50.76	CF(dB) 34.25 6.61 8_3Mbps Ant./CF CF(dB) 34.36 34.37 6.83 Ant./CF CF(dB) 34.36	Peak (dBuV/m) 98.43 41.96 Ac Peak (dBuV/m) 93.41 57.13 42.55 Ac Peak (dBuV/m) 97.62	AV (dBuV/m) 85.92 33.61 ct. AV (dBuV/m) 80.94 47.85 33.61 ct. AV (dBuV/m) 85.12	Peak (dBuV/m) 74.00 Lir Peak (dBuV/m) 74.00 74.00 74.00 Lir Peak (dBuV/m)	AV (dBuV/m) 54.00 mit AV (dBuV/m) 54.00 54.00 mit AV (dBuV/m)	X/F X/F Not X/F X/F X/F
(MHz) 2441.00 4882.00 Test Mode: Freq. (MHz) 2480.00 2483.50 4960.00 Freq. (MHz)	H/V H H Ant.Pol. H/V V V V V Ant.Pol. H/V	Peak (dBuV) 64.18 35.35 (2480MH Rea Peak (dBuV) 59.05 22.76 35.72 Rea Peak (dBuV)	AV (dBuV) 51.67 27.00 Hz _CH73 ding AV (dBuV) 46.58 13.48 26.78 ding AV (dBuV)	CF(dB) 34.25 6.61 8_3Mbps Ant./CF CF(dB) 34.36 34.37 6.83 Ant./CF CF(dB)	Peak (dBuV/m) 98.43 41.96 Ac Peak (dBuV/m) 93.41 57.13 42.55 Ac Peak (dBuV/m)	AV (dBuV/m) 85.92 33.61 ct. AV (dBuV/m) 80.94 47.85 33.61 ct. AV (dBuV/m)	Peak (dBuV/m) 74.00 Lir Peak (dBuV/m) 74.00 74.00 Lir Peak	AV (dBuV/m) 54.00 mit AV (dBuV/m) 54.00 54.00 mit AV	X/F X/F Not X/F X/E

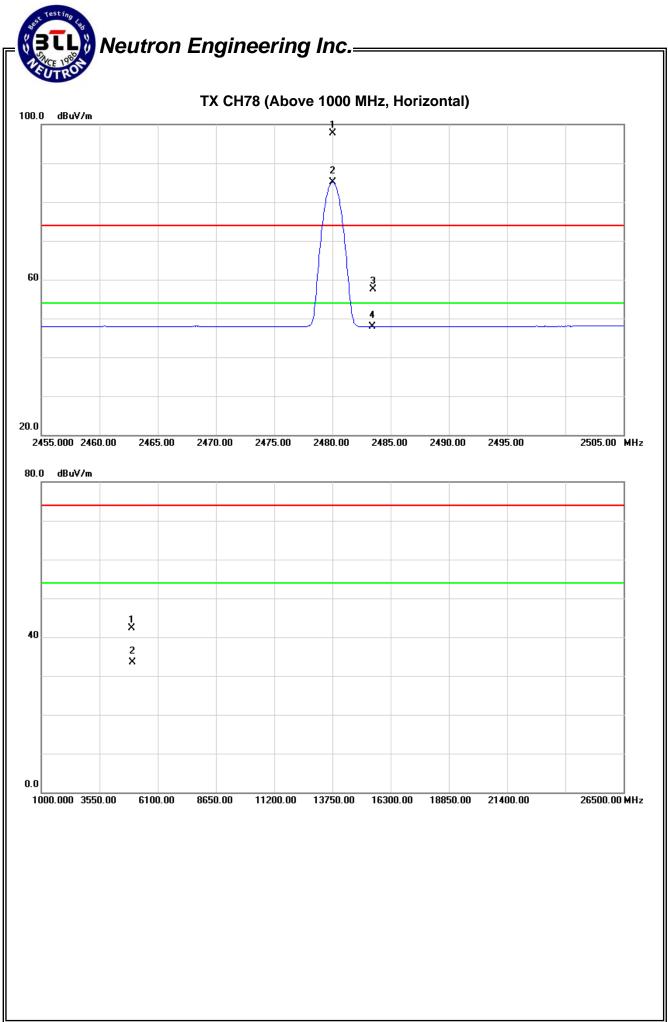












5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES

FCC Part15 (15.247), Subpart C/ RSS-GEN and RSS-210				
Section	Test Item	Frequency Range (MHz)	Result	
15.247(a)(1)(iii) RSS-210, Issue 8, Annex 8, A8.1(d)	Number of Hopping Channel	2400-2483.5	PASS	

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RBW	100 KHz
VBW	100 KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.1 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=100KHz, Sweep time = Auto.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	

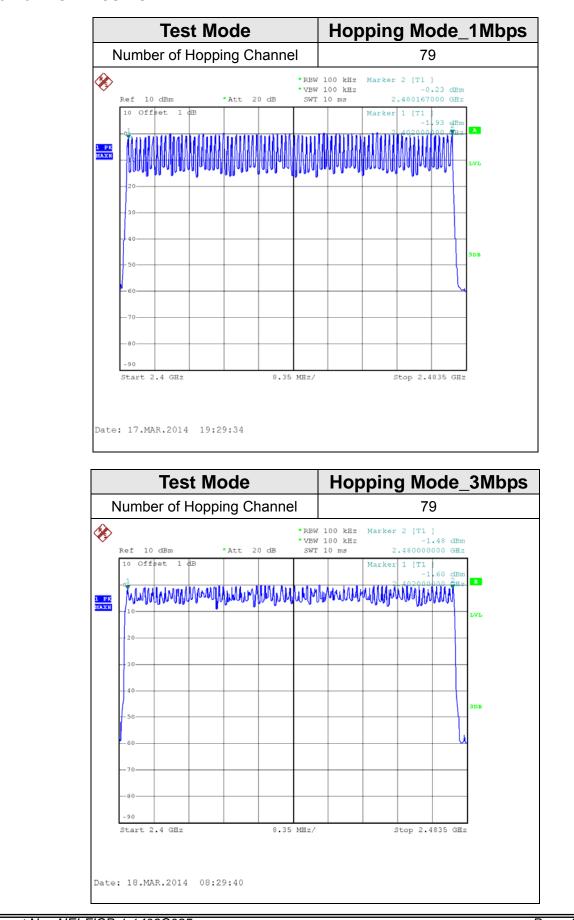
SPECTRUM ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

5.1.6 TEST RESULTS



6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C/ RSS-GEN and RSS-210				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(1)(iii) RSS-210, Issue 8, Annex 8, A8.1(d)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

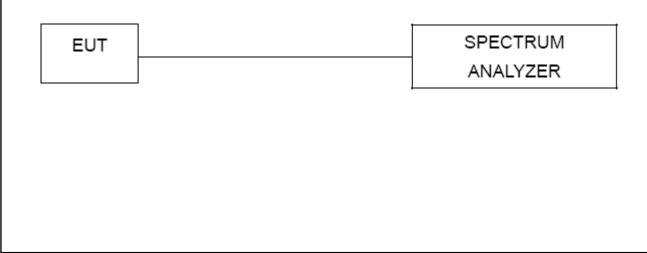
6.1.1 TEST PROCEDURE

- 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.
- \tilde{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 TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 3.37 x 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 TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 5.06 x 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 TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP





6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

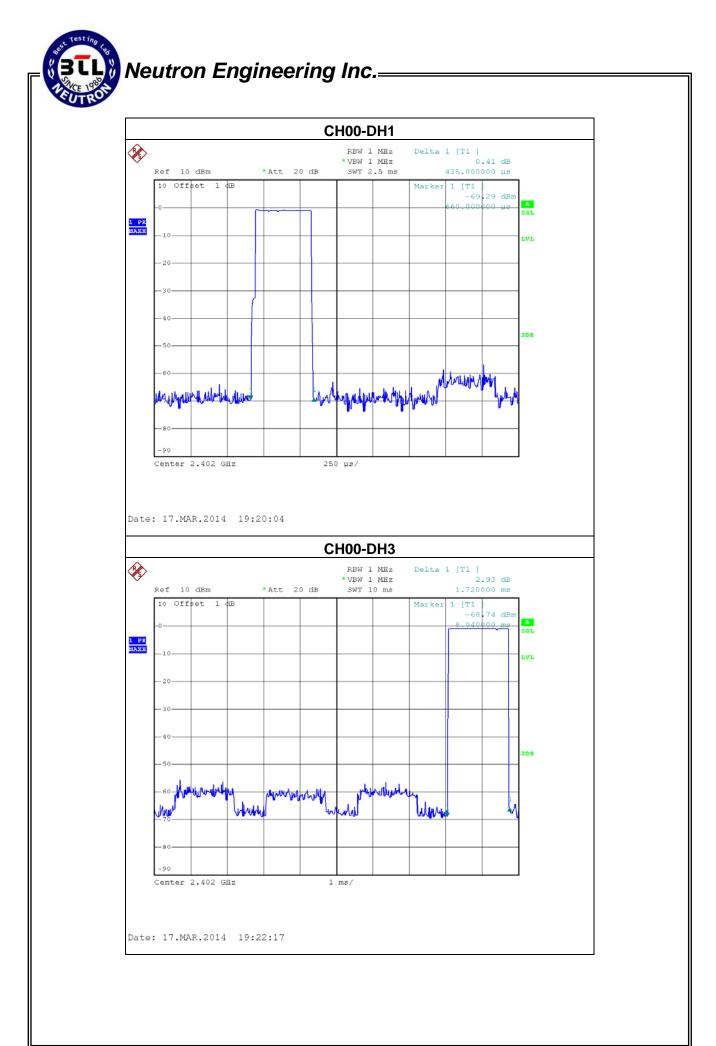
6.1.6 TEST RESULTS

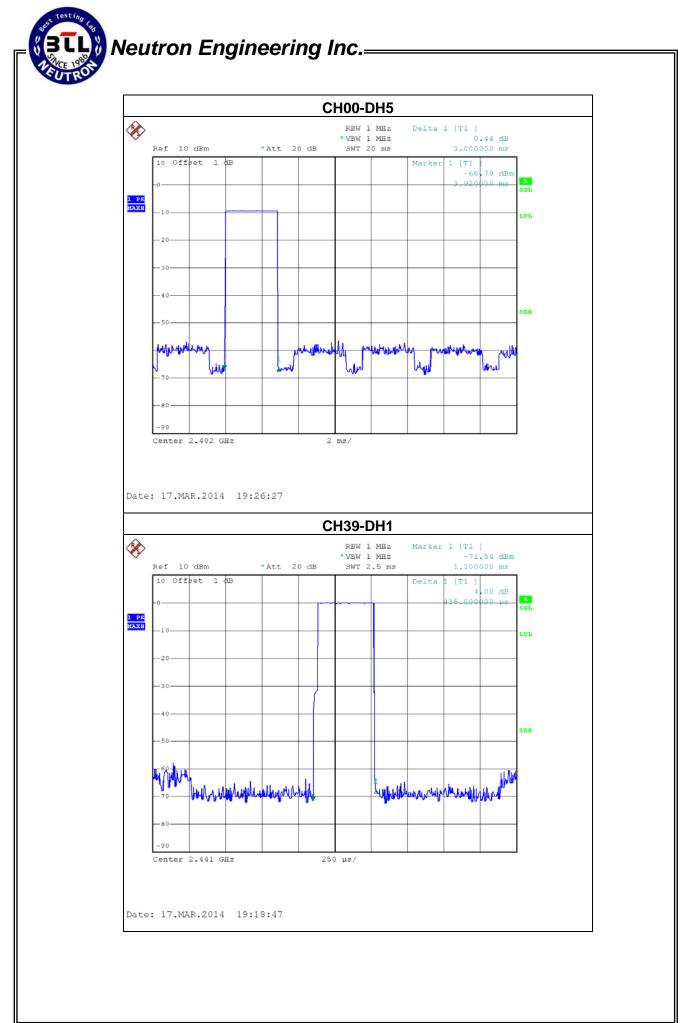
Test Mode: CH00_1Mbps				
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402	3.0000	0.3200	0.4000
DH3	2402	1.7200	0.2752	0.4000
DH1	2402	0.4350	0.1392	0.4000

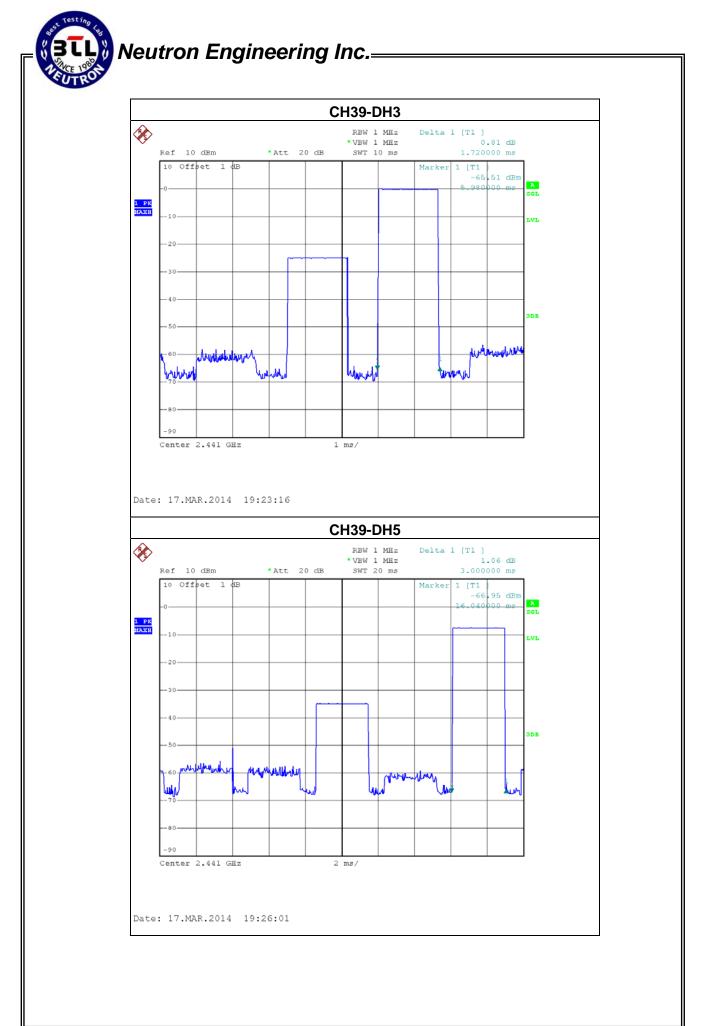
Test Mode: CH39_1Mbps

Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441	3.0000	0.3200	0.4000
DH3	2441	1.7200	0.2752	0.4000
DH1	2441	0.4350	0.1392	0.4000

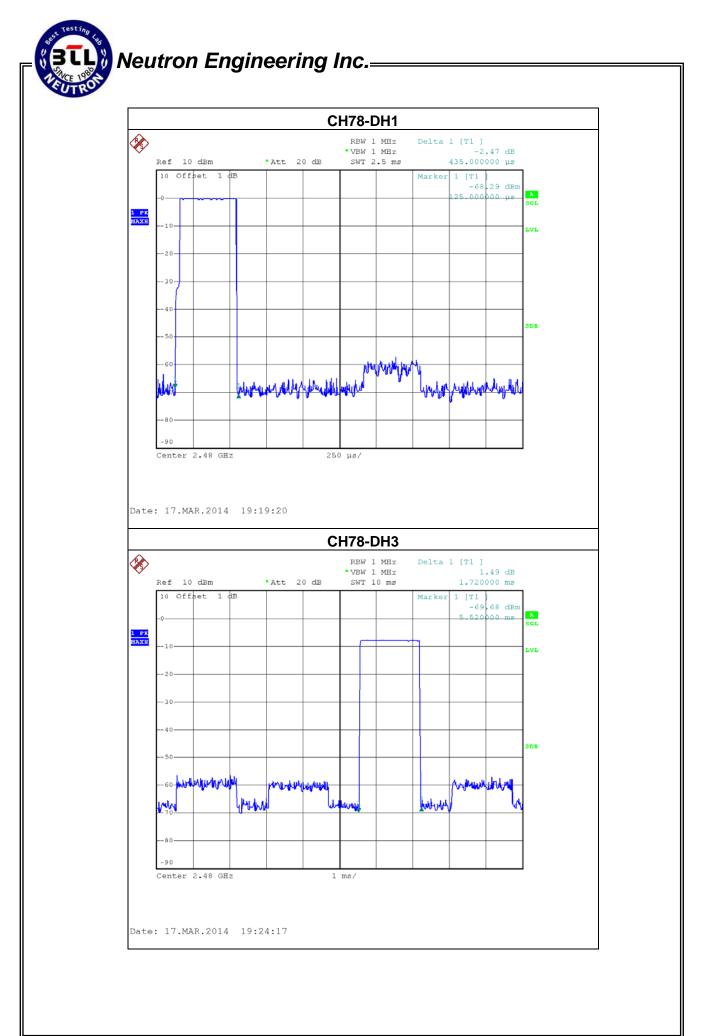
Test Mode: CH78_1Mbps				
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480	3.0000	0.3200	0.4000
DH3	2480	1.7200	0.2752	0.4000
DH1	2480	0.4350	0.1392	0.4000



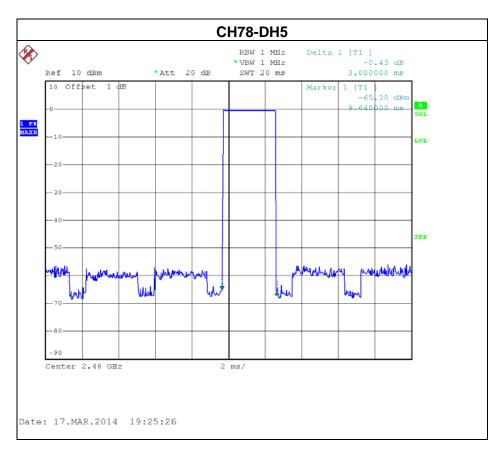




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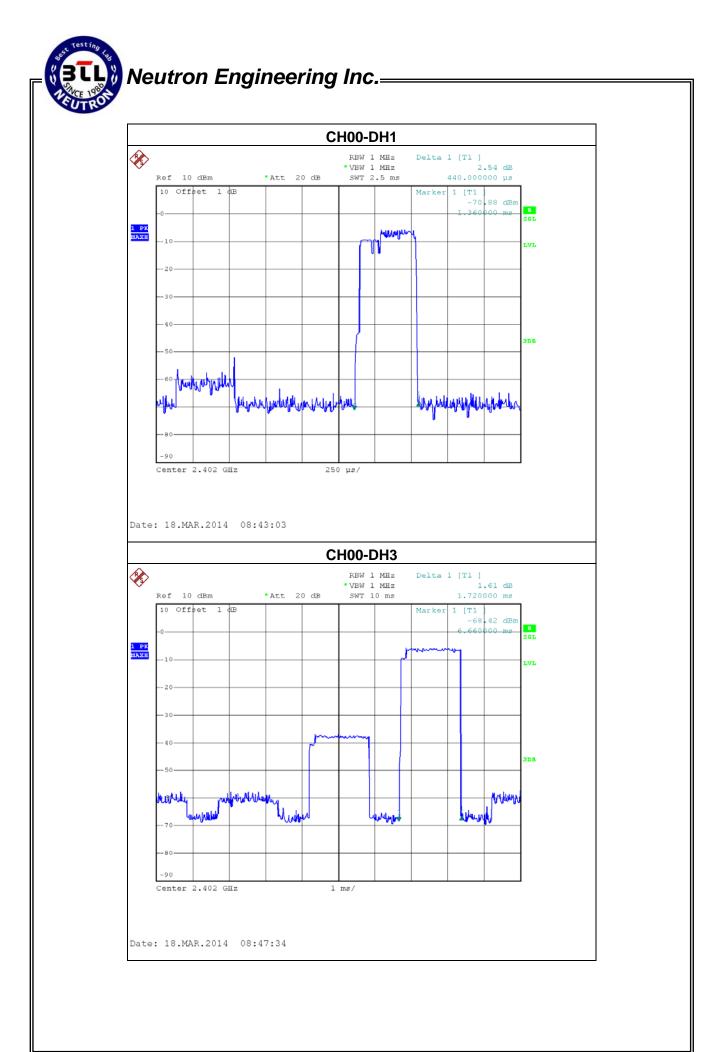
Test Mode: CH00_3Mbps				
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402	3.0200	0.3221	0.4000
DH3	2402	1.7200	0.2752	0.4000
DH1	2402	0.4400	0.1408	0.4000

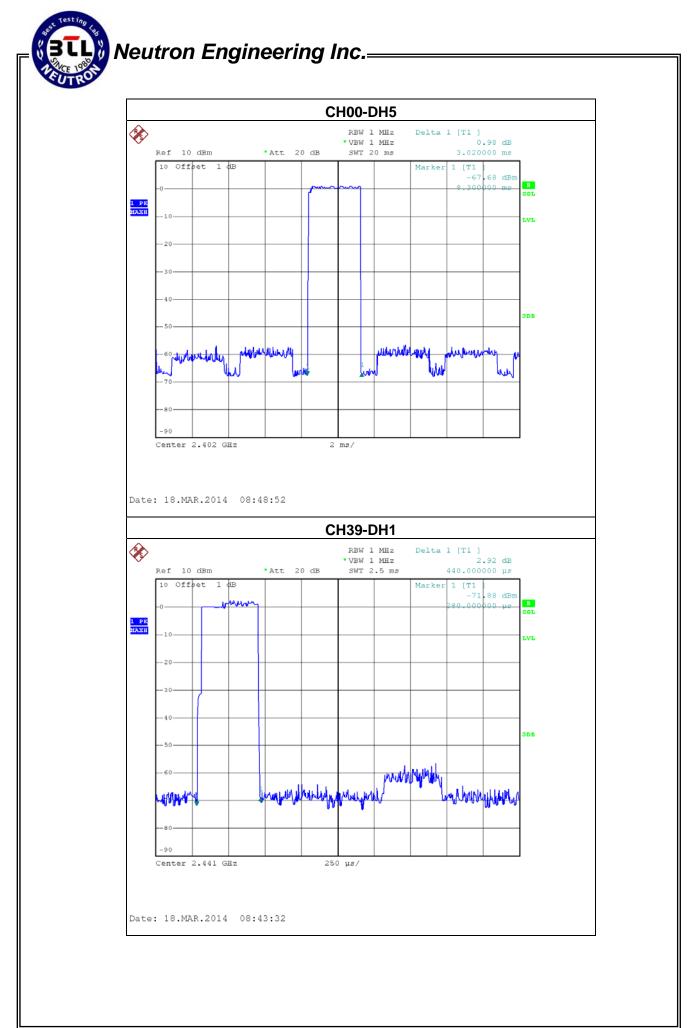
Test Mode: CH39_3Mbps

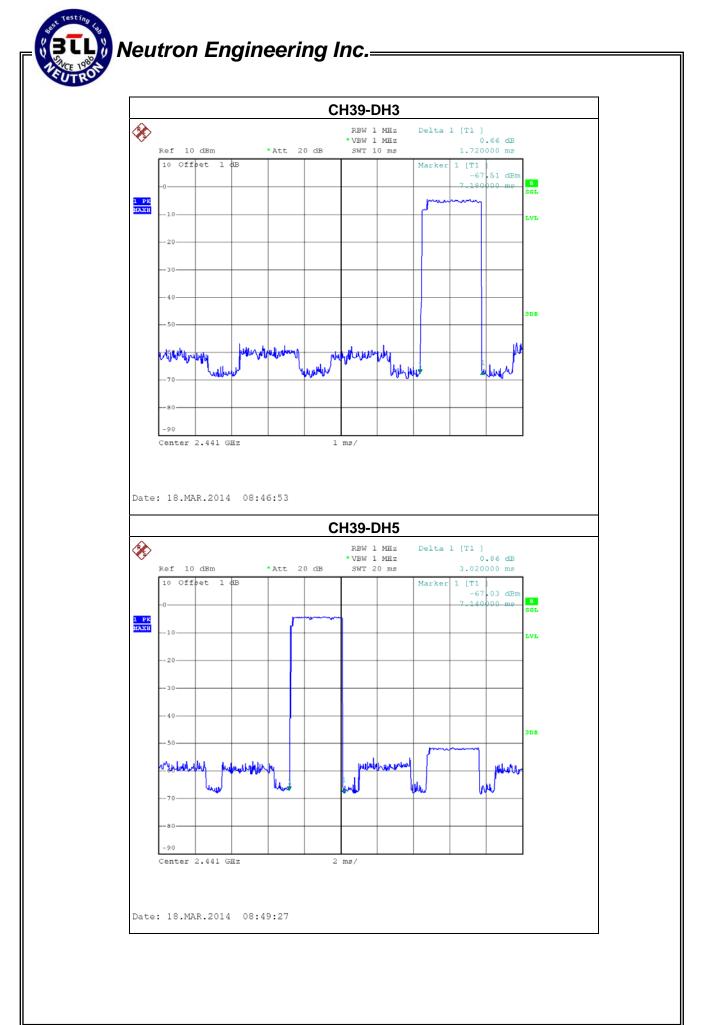
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441	3.0200	0.3221	0.4000
DH3	2441	1.7200	0.2752	0.4000
DH1	2441	0.4400	0.1408	0.4000

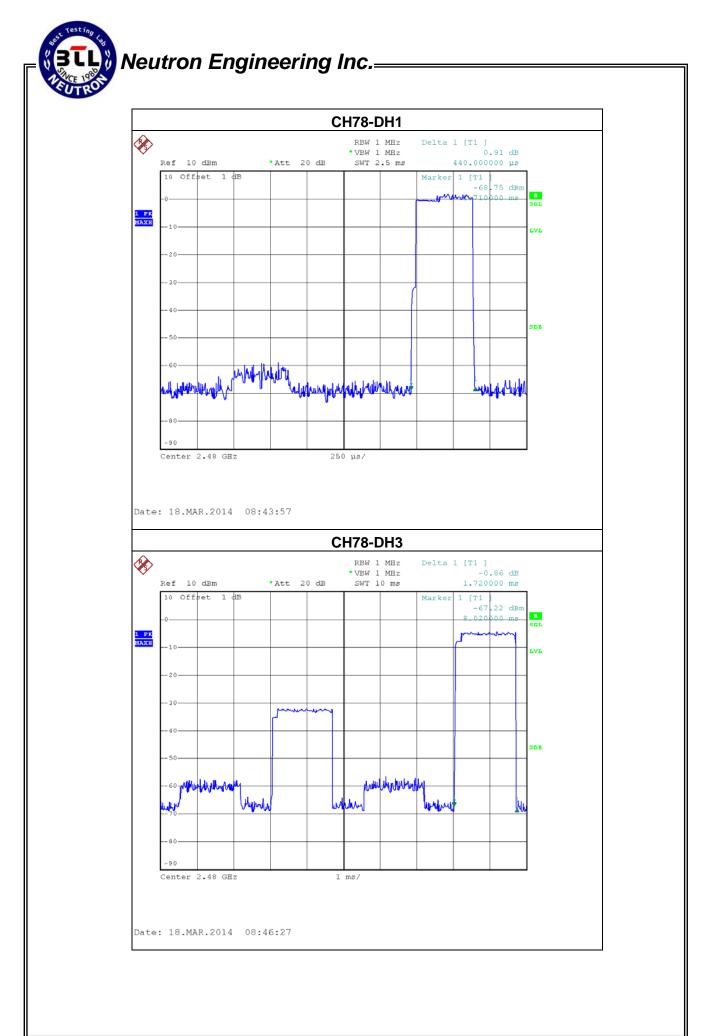
Test Mode: CH78_3Mbps

Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480	3.0200	0.3221	0.4000
DH3	2480	1.7200	0.2752	0.4000
DH1	2480	0.4400	0.1408	0.4000



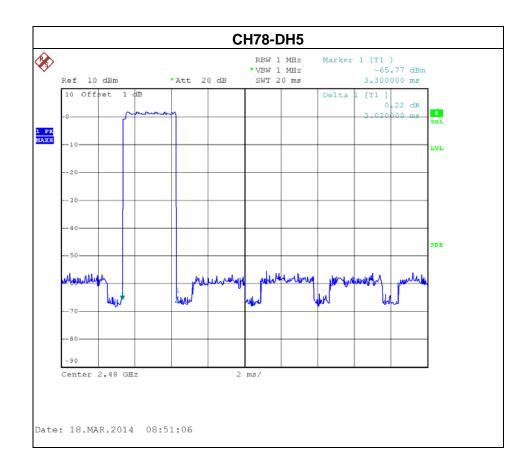






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7. HOPPING CHANNEL SEPARATION MEASUREMENT

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.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	30 KHz
VBW	100 KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.1.1 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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

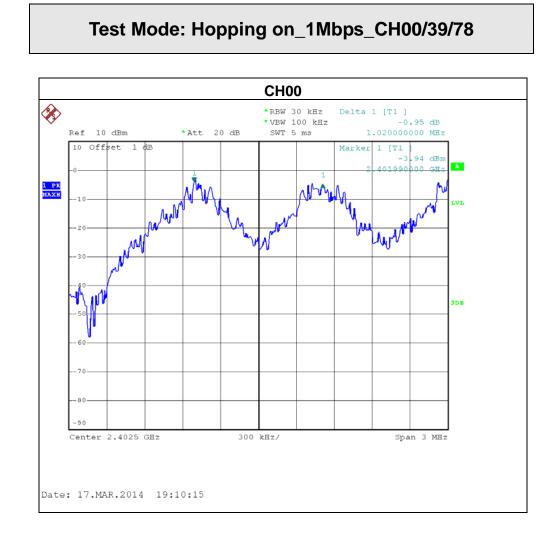


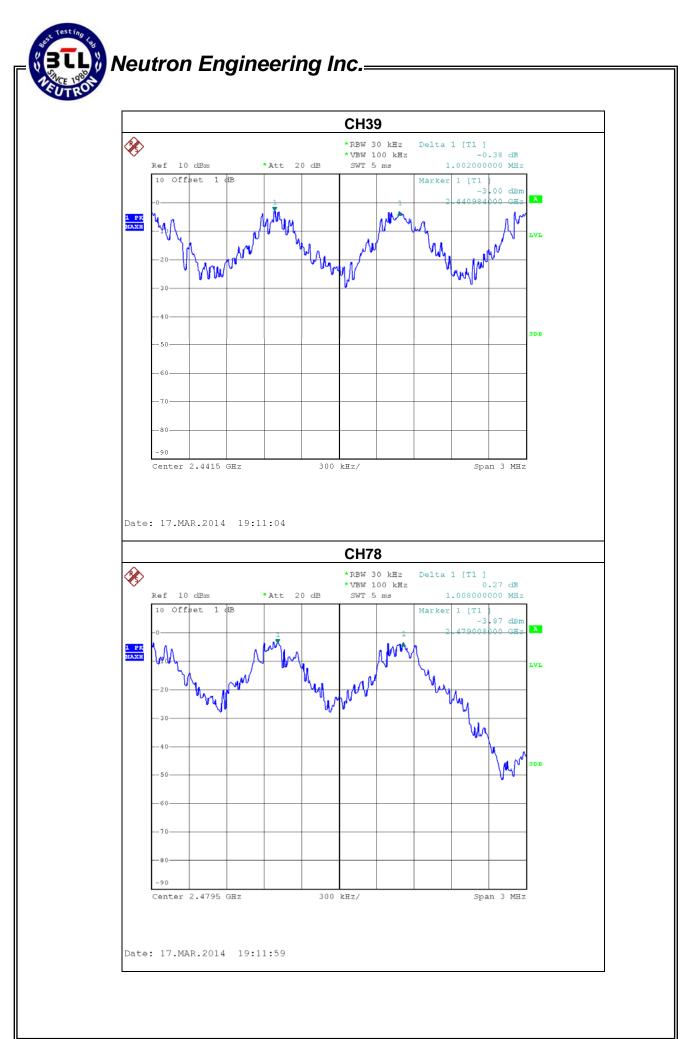
Spectrum Analayzer

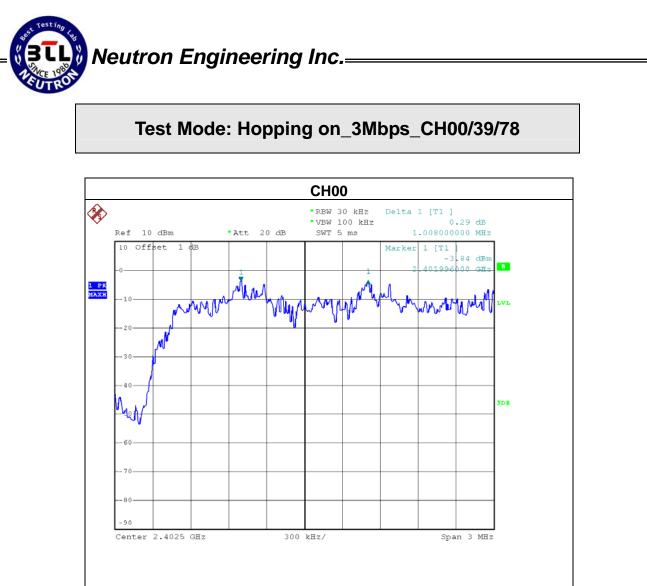
EUT

7.1.4 EUT TEST CONDITIONS

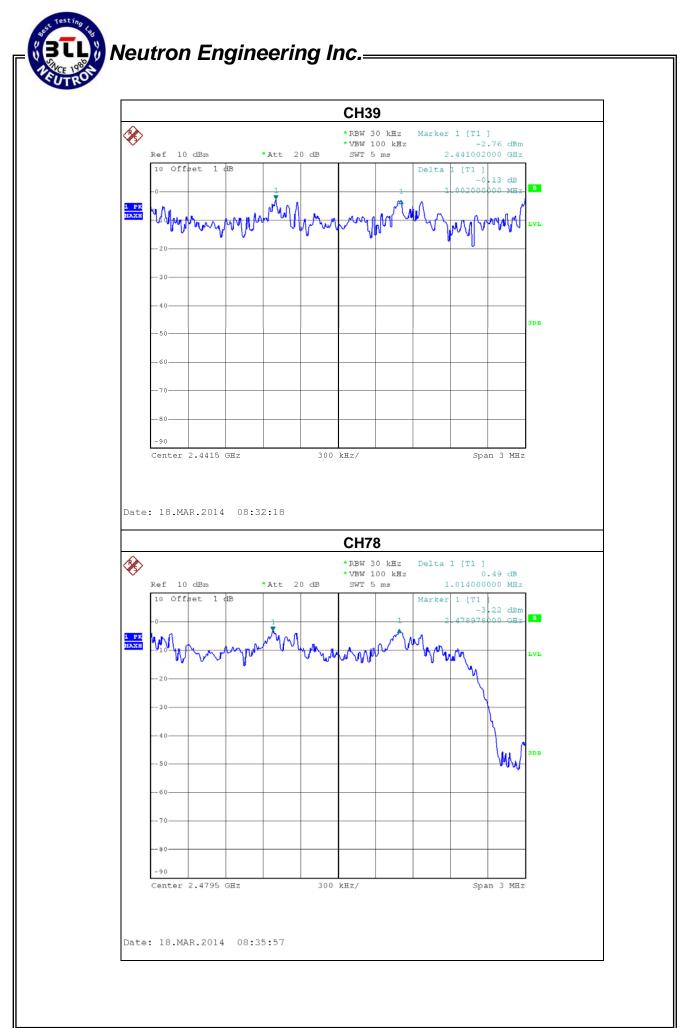
7.1.5 TEST RESULTS







Date: 18.MAR.2014 08:31:17



8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES

~						
	FCC Part15 (15.247) , Subpart C/ RSS-GEN and RSS-210					
	Section	Test Item	Frequency Range (MHz)			
	15.247(a)(2)					
	RSS-GEN section 4.6.1	Bandwidth	2400-2483.5			
	RSS-210, Issue 8, Annex 8, A8.1(b)					

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

8.1.1 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= 30KHz, VBW=100KHz, Sweep Time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

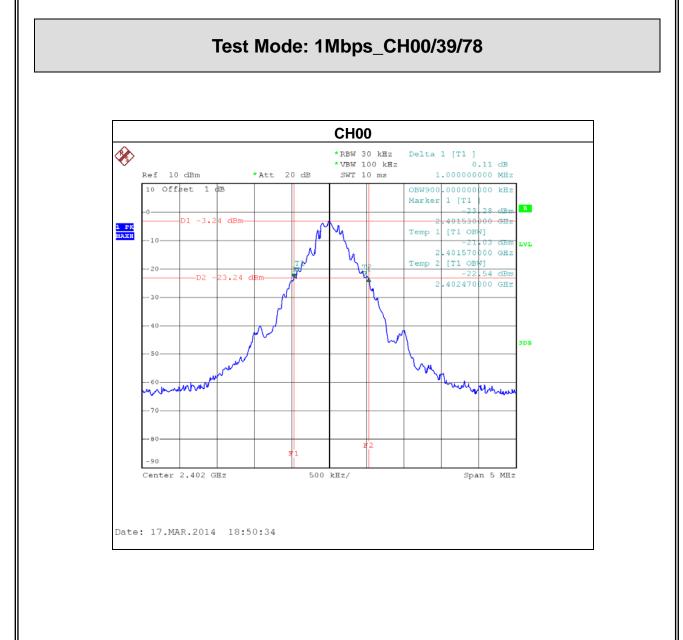


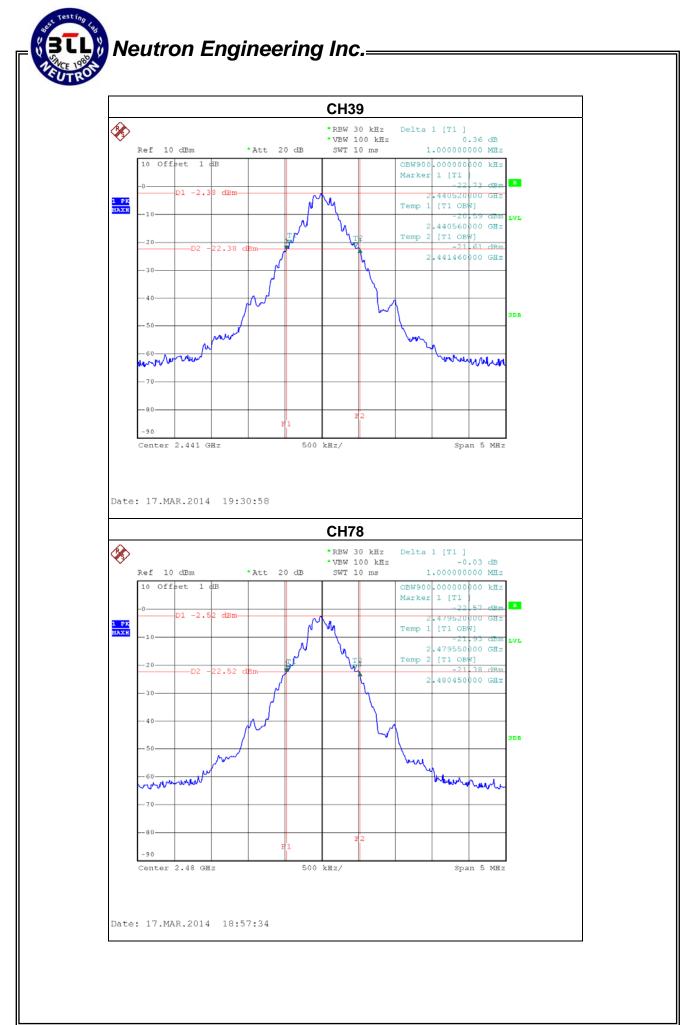
8.1.4 EUT OPERATION CONDITIONS

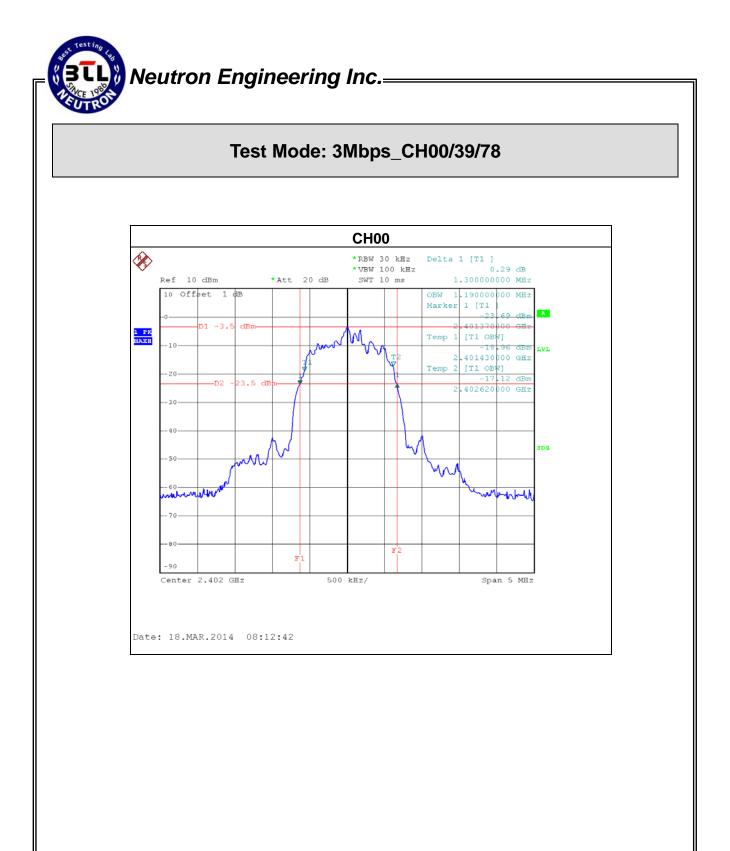
The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

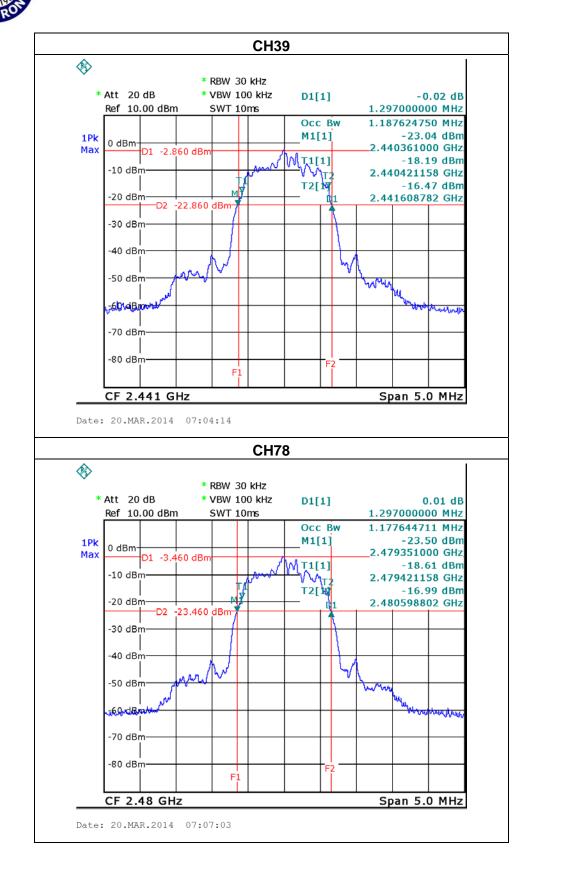
8.1.5 EUT TEST CONDITIONS

8.1.6 TEST RESULTS









9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C/ RSS-GEN and RSS-210						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(1) RSS-GEN section 4.8 RSS-210, Issue 8, Annex 8, A8.1(b)	Peak Output Power	0.125 Watt or 21dBm	2400-2483.5	PASS		

9.1.1 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= 1MHz/3MHz, VBW= 1MHz/3MHz, Sweep time = Auto.

9.1.2 DEVIATION FROM STANDARD

No deviation.

9.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

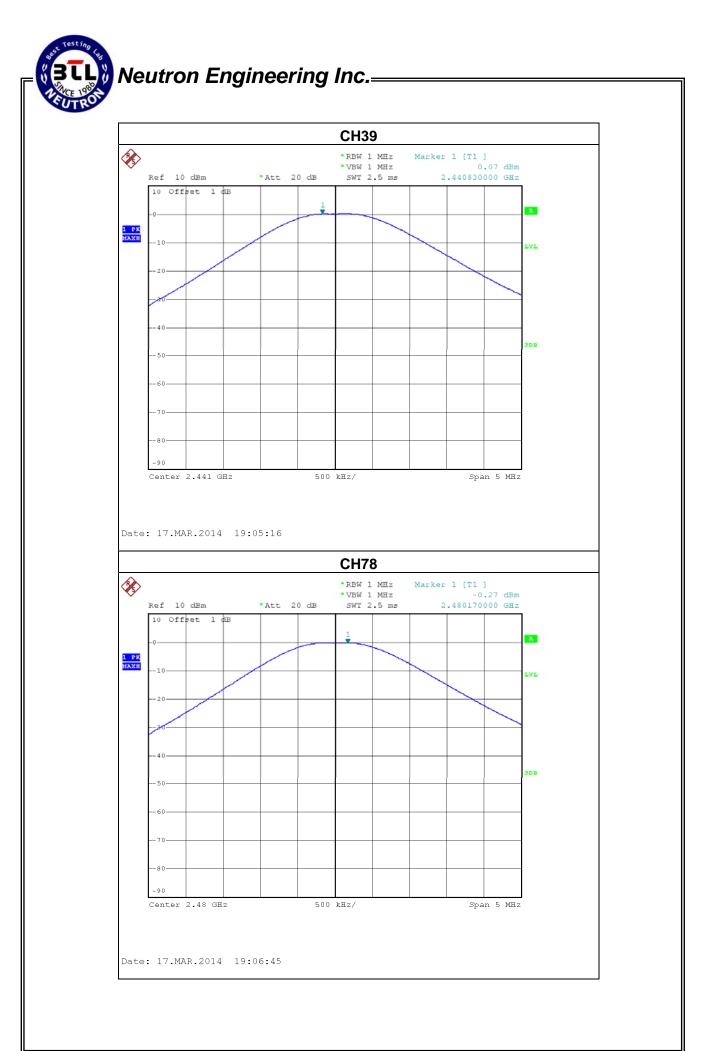
9.1.5 EUT TEST CONDITIONS

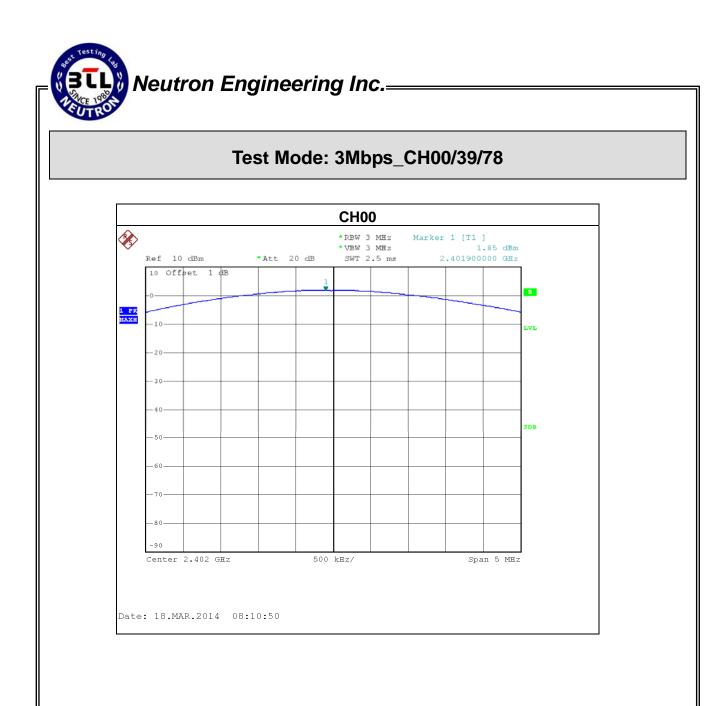
Neutron Engineering Inc.=

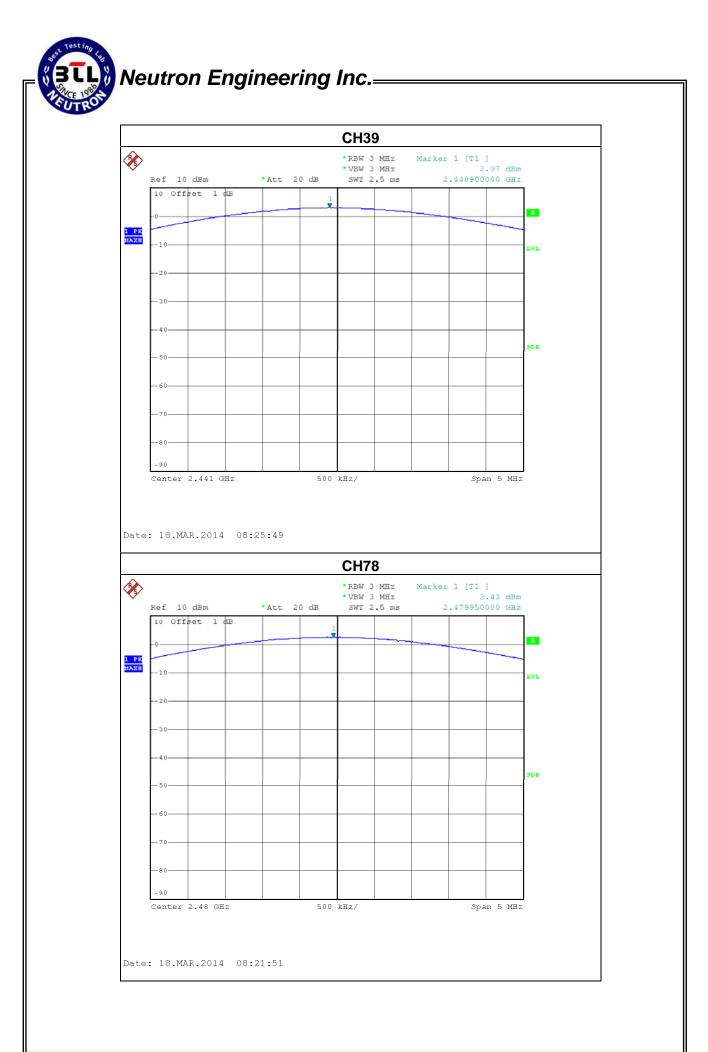
9.1.6 TEST RESULTS



Test Mode: 1Mbps_CH00/39/78







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10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

10.1.1 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=100KHz, Sweep time = Auto.

10.1.2 DEVIATION FROM STANDARD

No deviation.

10.1.3 TEST SETUP



10.1.4 EUT OPERATION CONDITIONS

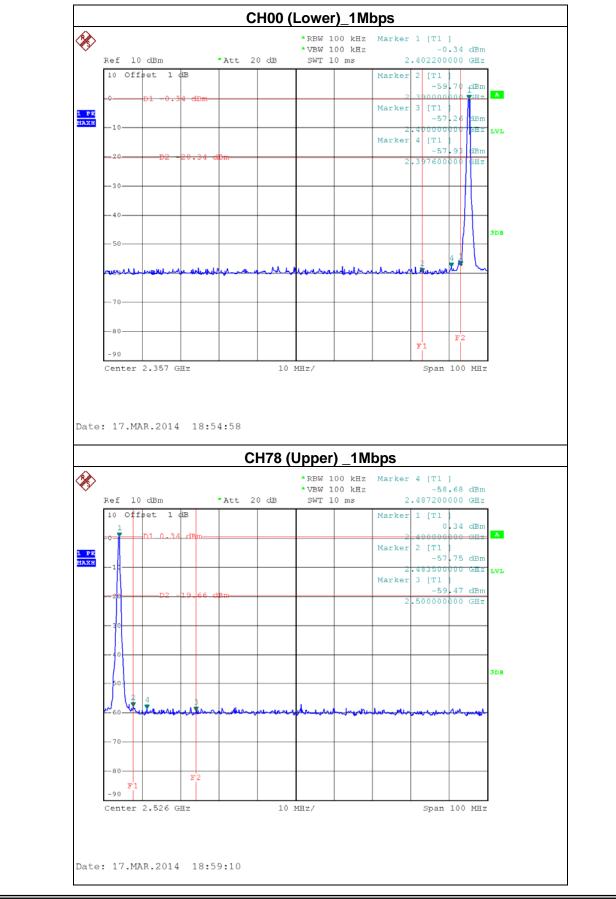
The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

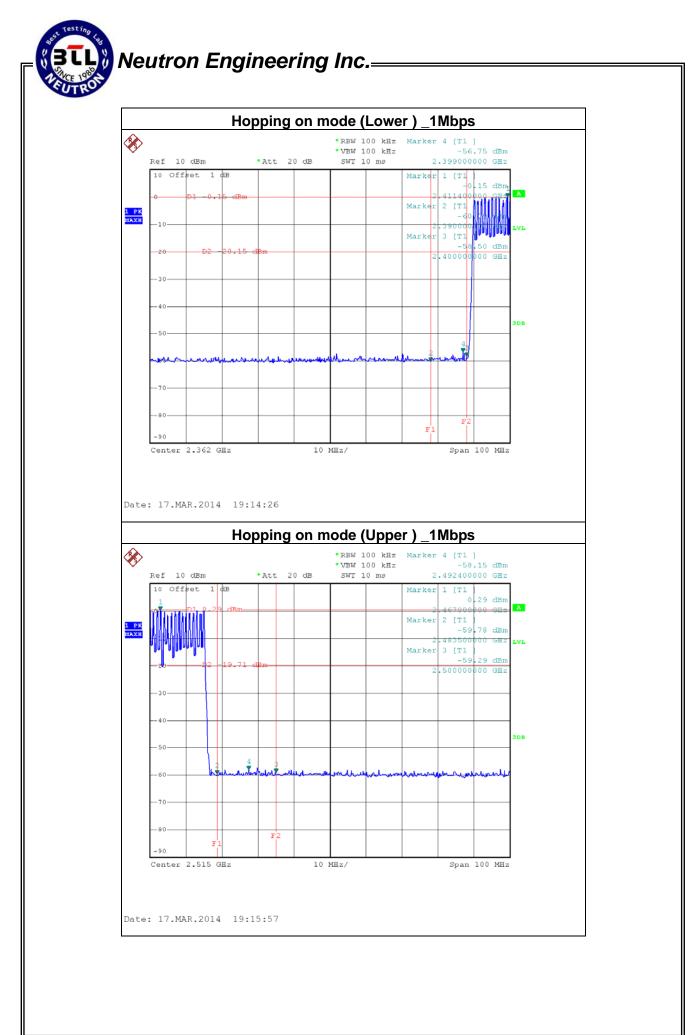
10.1.5 EUT TEST CONDITIONS

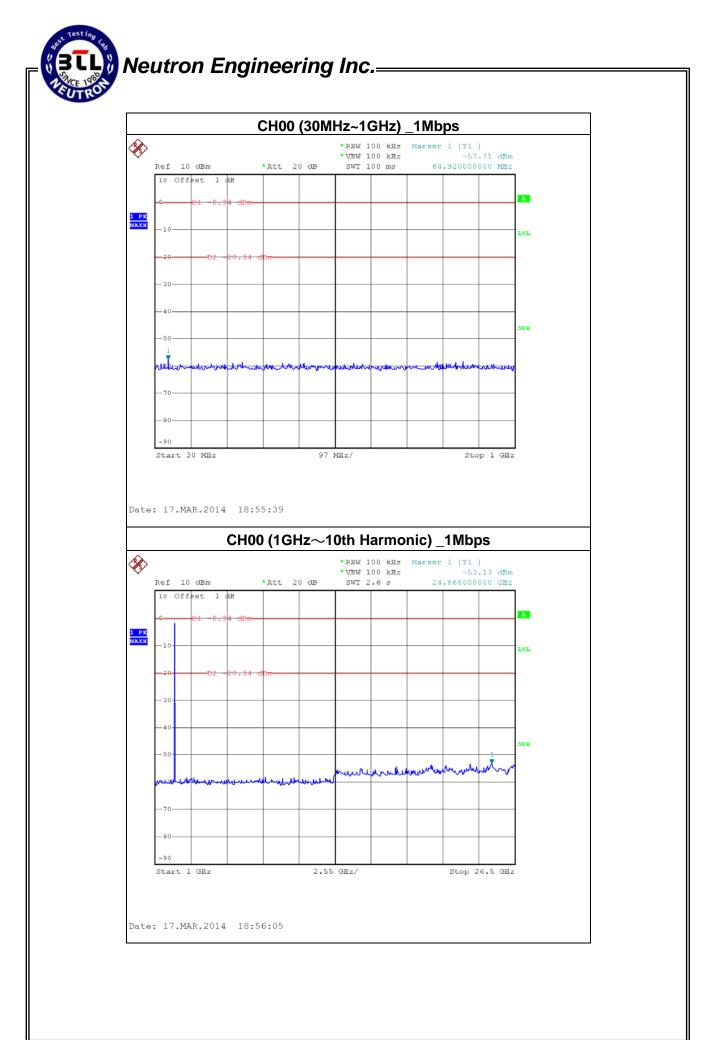
Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 3.7V

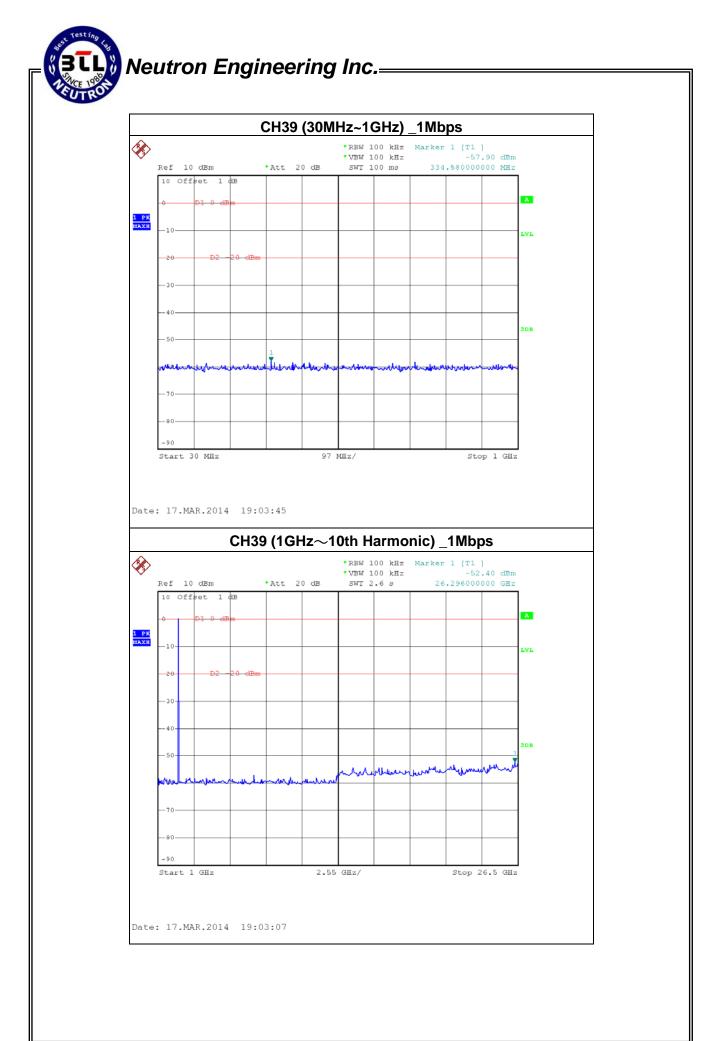
Neutron Engineering Inc.

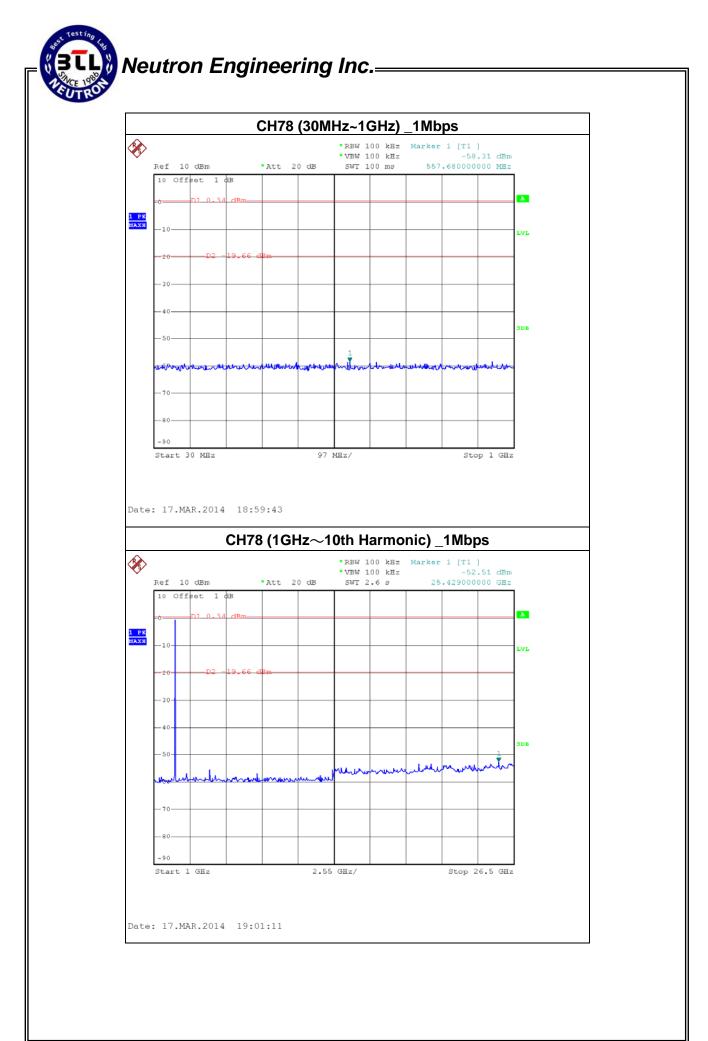
10.1.6 TEST RESULTS

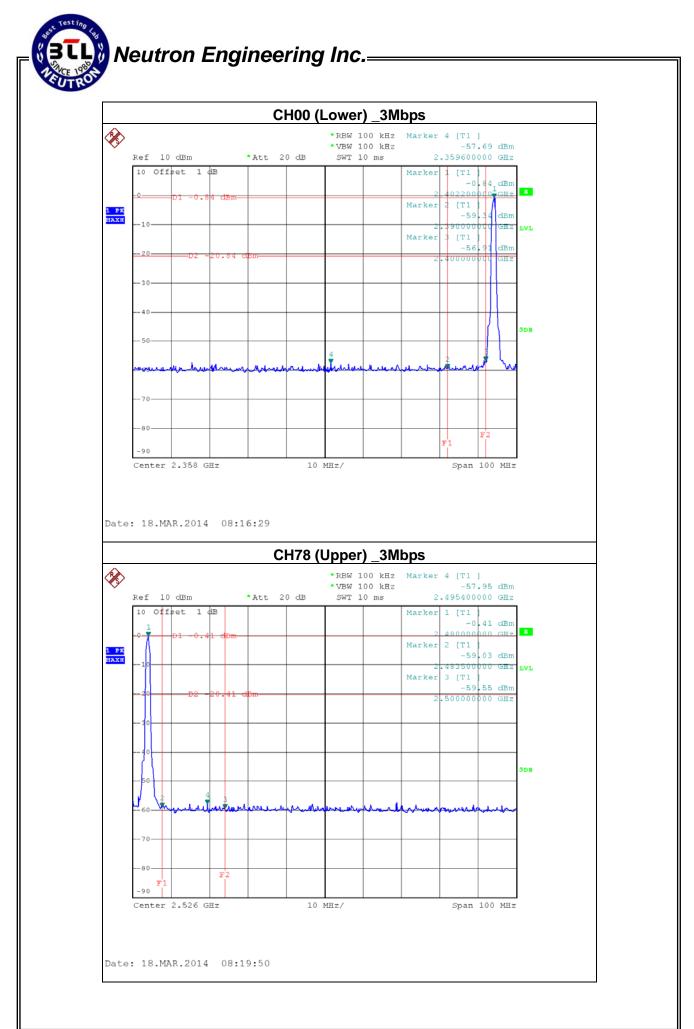


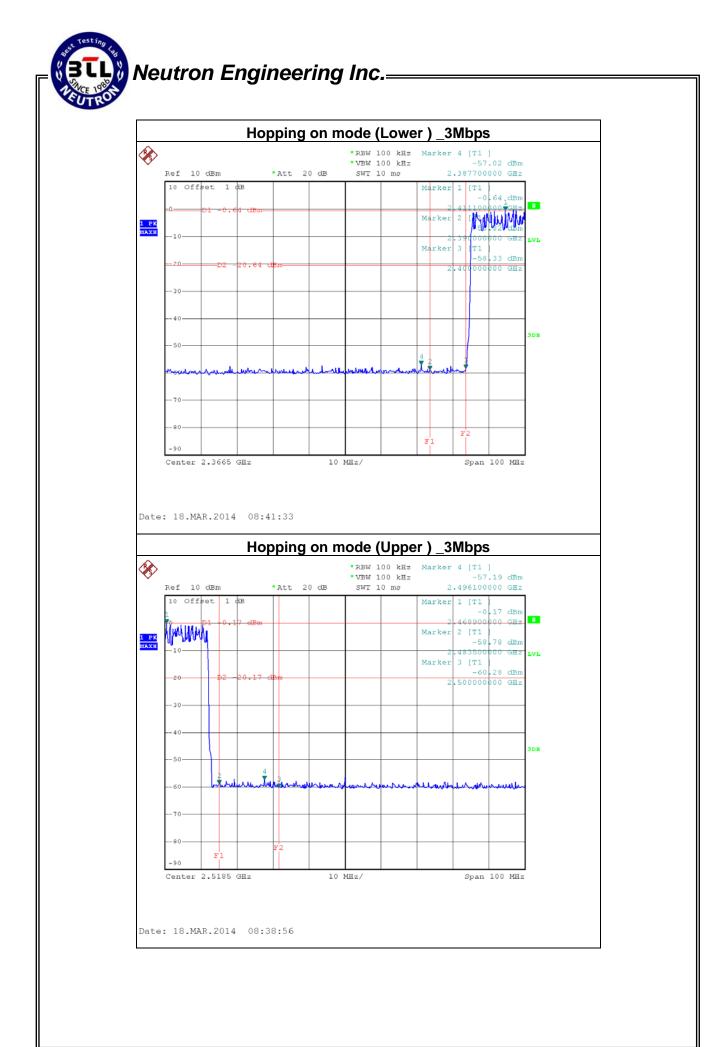


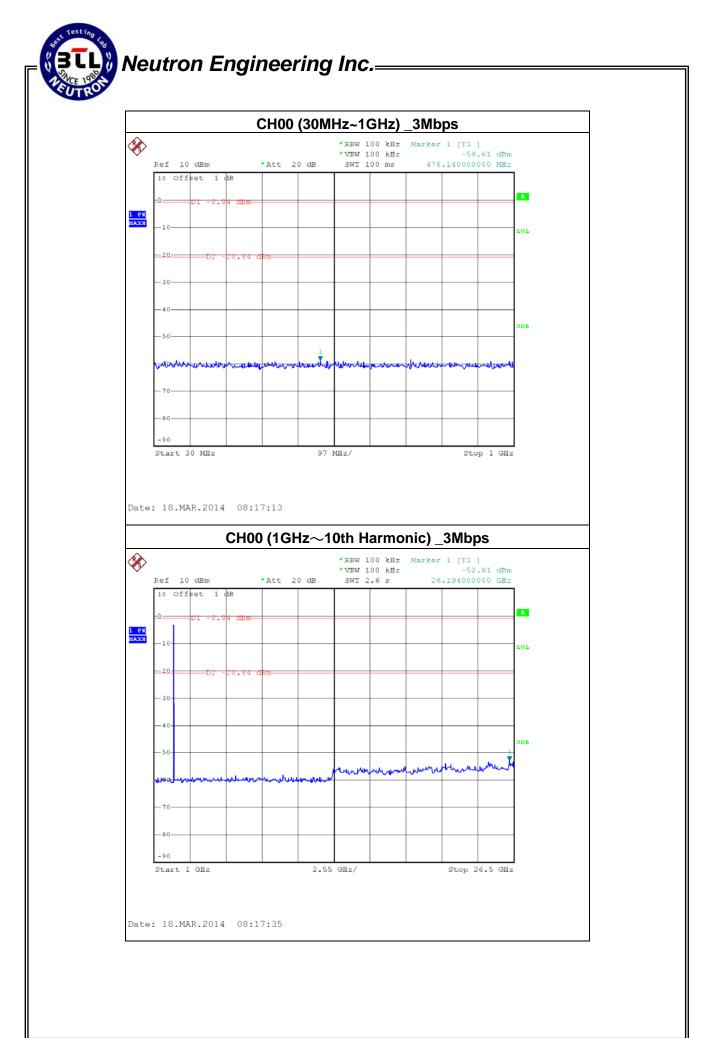


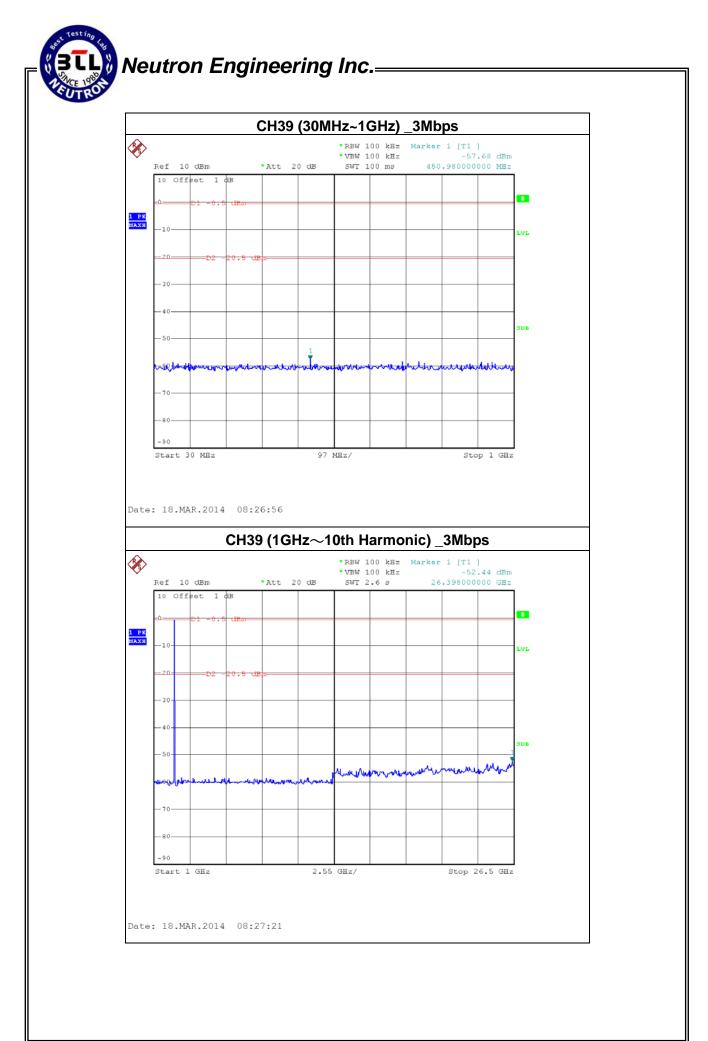


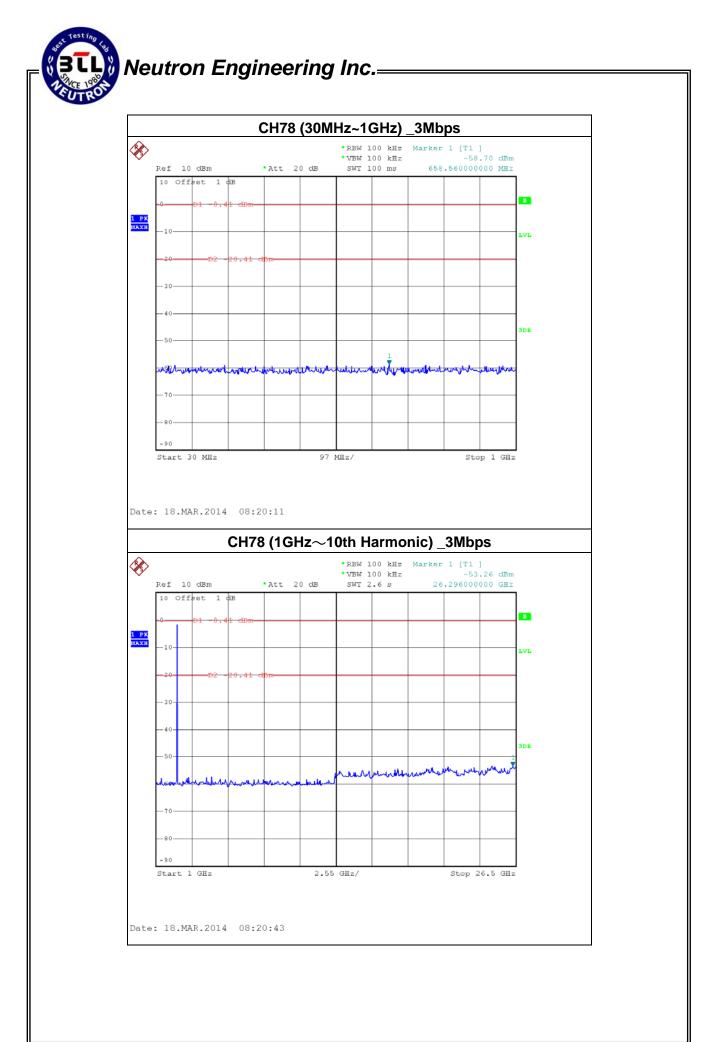












Neutron Engineering Inc.

	Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	LISN	EMCO	3816/2	00052765	Apr. 25, 2014	
2	LISN	R&S	ENV216	100087	Nov.09, 2014	
3	Test Cable	N/A	C_17	N/A	Mar.14, 2015	
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Apr. 25, 2014	
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Apr. 25, 2014	

11. MEASUREMENT INSTRUMENTS LIST AND SETTING

Radiated Emission Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Apr. 25, 2014
2	Amplifier	HP	8447D	2944A09673	Apr. 25, 2014
3	Test Receiver	R&S	ESCI	100382	Apr. 25, 2014
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 02, 2014
5	Antenna	ETS	3115	00075789	Apr. 25, 2014
6	Amplifier	Agilent	8449B	3008A02274	Apr. 25, 2014
7	Spectrum	Agilent	E4408B	US39240143	Nov. 09, 2014
8	Test Cable	HUBER+SUHNER	C-45	N/A	Apr. 30, 2014
9	Controller	СТ	SC100	N/A	N/A
10	Horn Antenna	EMCO	3115	9605-4803	Apr. 25, 2014
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Apr. 25, 2014
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct. 22, 2014

Number of Hopping Channel

			-		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014

Average Time of Occupancy

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014

Neutron Engineering Inc.

Hopping Channel Separation Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014
Bandwidth					
		Bar	ndwidth		
				.	
Item	Kind of Equipment	Bar Manufacturer	ndwidth Type No.	Serial No.	Calibrated until
Item 1	Kind of Equipment Spectrum Analyzer			Serial No. 100185	Calibrated until Nov. 09, 2014

Peak Output F	Power
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-						
	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014

	Antenna Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014	

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.



12. EUT TEST PHOTO

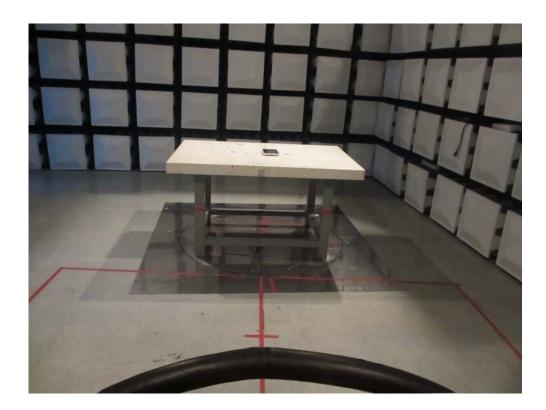
Conducted Measurement Photos



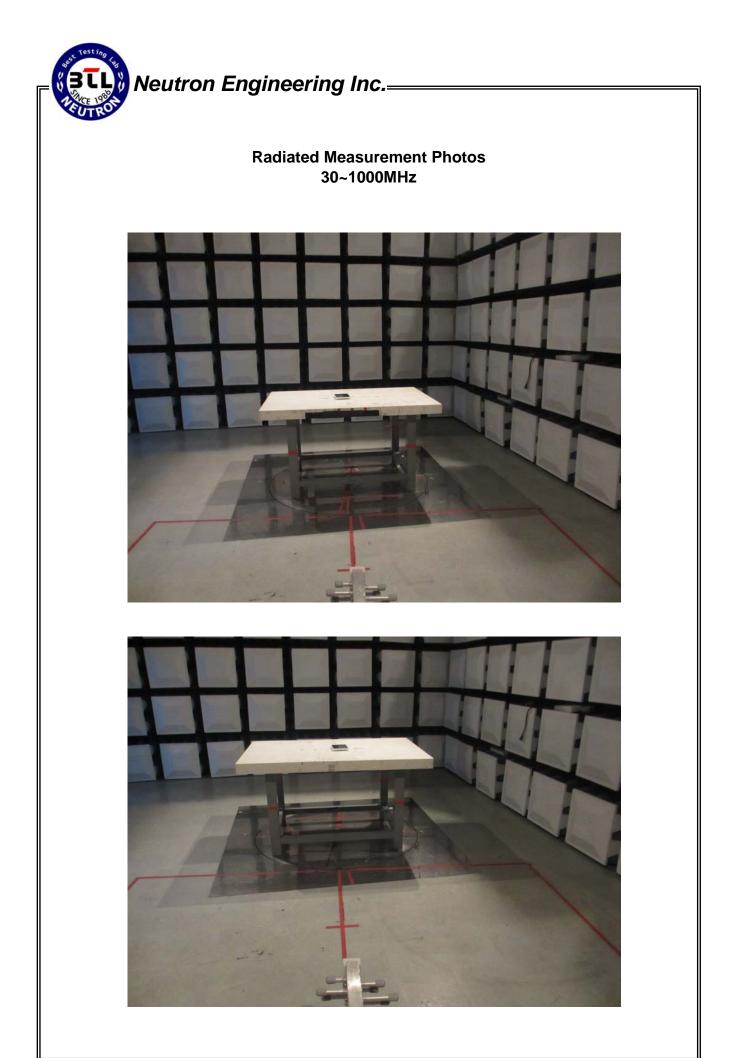




Radiated Measurement Photos 9K~30MHz







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Radiated Measurement Photos Above 1000MHz



