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# **FCC Radio Test Report**

# FCC ID: WL6-RTL8188CUS

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

Issued Date Project No.	: Mar. 15, 2011 : 1102C032
Equipment	: ElitePad S10
Model Name	(The X means 0-9,A-Z,or blank for any characteristic for marketing purpose)
Applicant	: ELITEGROUP COMPUTER SYSTEMS CO., LTD
Address	: No.239,Sec.2,Ti Ding Blvd., Taipei, Taiwan
Manufacturer Address	: ELITEGROUP COMPUTER SYSTEMS CO., LTD : No.239,Sec.2,Ti Ding Blvd., Taipei, Taiwan

#### Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Feb. 16, 2011

Date of Test:

Feb. 16, 2011 ~ Mar. 11, 2011

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#### Declaration

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

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#### Limitation

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

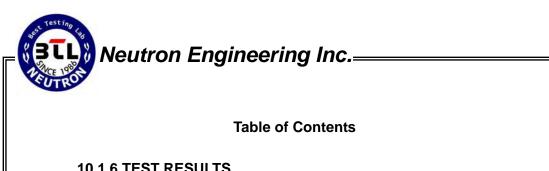


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### **1. CERTIFICATION**

Equipment:	ElitePad S10
Brand Name :	ECS;i-Buddie;olio
Model Name :	S10OT1;S10OTxxxxx;S10OTxxxxx series;S10 series (The X means 0-9,A-Z,or blank for any characteristic for marketing purpose)
Mouel Marie.	blank for any characteristic for marketing purpose)
Applicant:	ELITEGROUP COMPUTER SYSTEMS CO., LTD
Date of Test:	Feb. 16, 2011 ~ Mar. 11, 2011
Test Item:	ENGINEERING SAMPLE
Standards:	FCC Part15, Subpart C(15.247) / ANCI C63.4 : 2003

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-2-1102C032) 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).

Test result included in this report is only for the Bluetooth approval part of the product.

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# 2. SUMMARY OF TEST RESULTS

	FCC Part15 (15.247) , Subpart C					
Standard Section	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				
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS				

NOTE:

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



#### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-CB03/DG-C03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number is 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 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 %  $_{\circ}$ 

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C03	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	
DG-CB03	CISPR	30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISER	200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Н	3.94	

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## **3. GENERAL INFORMATION**

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	ElitePad S10					
Brand Name	ECS;i-Buddie;olio					
Model Name	S10OT1;S10OTxxxxx;S10OTxxxxx series;S10 series (The X means 0-9,A-Z,or blank for any characteristic for marketing purpose)					
OEM Brand/Model Name	N/A					
Model Difference	Appearance with & with	out SIM card slot.				
Product Description	The EUT is a ElitePad S10.Operation Frequency: $2402 \sim 2480 \text{ MHz}$ Modulation Type:GFSK(1Mbps)Bit Rate of Transmitter $\pi$ /4-DQPSK(2Mbps)Bumber of Channel79 CHAntenna Designation:Please see Note 3.Antenna Gain(Peak)Please see Note 3.Peak Conducted Output5.51 dBm (1Mbps)Power:4.30 dBm (3Mbps)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					
Power Source Power Rating	<ul> <li>#1 DC Voltage supplied from AC/DC adapter. Model/Brand: BU24-120 / DARFON</li> <li>#2 DC Voltage supplied from AC/DC adapter. Model/Brand: 3A-242WU12 / ENG</li> <li>#3 DC Voltage supplied from AC/DC adapter. Model/Brand: HKA02412020-2C / Huntkey</li> <li>#4 DC Voltage supplied from Li-ion polymer Battery. Model/Brand: S20-5159B5N-0100 / ATL</li> <li>#1 I/P AC 100-240V ~ 50-60Hz 0.6A O/P DC 12V 2A</li> <li>#2 I/P AC 100-240V ~ 50-60Hz 0.8A O/P DC 12V 2A</li> </ul>					
	#3 I/P AC 100-240V ~ 50/60Hz 0.8A O/P DC 12V 2A #4 DC 7.4V 3800mAh					
Connecting I/O Port(s)	Please refer to the User's Manual					
Products Covered	N/A					

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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
BT	ECS	WB704L	Printed	N/A	0.08	

#### 5. Keyparts

	Vendor	Model
CPU Manufacturer	Intel	Atom Z670 1.5GHz
	HSD	HSD101PFW3-A00
LED Panel Manufacturer	CDT	CLAA101NB03A
LED Panel Manufacturer	СРТ	CLAA101WB03
	AUO	B101AW06 V1
Touch Panel Manufacturer	CPT	CTAB101ZW01B
Touch Panel Manufacturer	CPT	CTAB101ZT81W
		SSDSLA016G-M2
	Asint	SSDSLA032G-M2
00D M ( )		SSDSLA064G-M2
SSD Manufacturer	SanDisk	SDSA4AH-064G
		SDSA4AH-016G
		SDSA4AH-032G
Memory	DDRII	1GB、2GB
	ENG	3A-242WU12
Adapter Manufacturer	Huntkey	HKA02412020-2C
	Darfon	BU24-120
Battery Manufacturer	ATL	GP-S20-5159B5N-0100
WebCam	BISON	BN6FM6YT1-010
webcam	FANGTEC	TS5013B1-D2-2M1-5R
WLAN+BT Combo	Chicony	WB704L

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Mode	CPU	Panel	Touch Panel	SSD	Memory	Battery	Adapter	WebCam	WLAN+B Combo
1	Intel Atom Z870 1.5GHz	HSD HSD101P FW3-A00	CPT CTAB10 1ZT81W	Asint SSDSLA0 18G-M2	DDRII 1GB	ATL GP-S20-515 9B5N-0100 3800mAh	ENG 3A-242WU 12	BISON BN6FM6YT1 -010	Chicony WB704L
2	Intel Atom Z670 1.5GHz	CPT CLAA101 NB03A	CPT CTAB10 1ZW01B	Asint SSDSLA0 32G-M2	DDRII 2GB	ATL GP-S20-515 9B5N-0100 3800mAh	Darfon BU24-120	Fangtec TS5013B1-D 2-2M1-5R	Chicony WB704L
ю	Intel Atom Z870 1.5GHz	CPT CLAA101 NB03A	CPT CTAB10 1ZT81W	Asint SSDSLA0 64G-M2	DDRII 1GB	ATL GP-S20-515 9B5N-0100 3800mAh	ENG 3A-242WU 12	BISON BN6FM6YT1 -010	Chicony WB704L
4	Intel Atom Z870 1.5GHz	CPT CLAA101 WB03	CPT CTAB10 1ZW01B	SanDisk SDSA4AH -032G	DDRII 2GB	ATL GP-S20-515 9B5N-0100 3800mAh	Darfon BU24-120	Fangtec TS5013B1-D 2-2M1-5R	Chicony WB704L
5	Intel Atom Z670 1.5GHz	HSD HSD101P FW3-A00	CPT CTAB10 1ZT81W	SanDisk SDSA4AH -018G	DDRII 1GB	ATL GP-S20-515 9B5N-0100 3800mAh	ENG 3A-242WU 12	BISON BN6FM6YT1 -010	Chicony WB704L
6	Intel Atom 2670 1.5GHz	AUO B101AW0 6 V1	CPT CTAB10 1ZT81W	SanDisk SDSA4AH -064G	DDRII 2GB	ATL GP-S20-515 9B5N-0100 3800mAh	Huntkey HKA02412 020-2C	Fangtec TS5013B1-D 2-2M1-5R	Chicony WB704L

All modes have been evaluated. Mode 4 is found to be the worse case, so Mode 4 test data recording in test report.

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.



#### 3.2 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	Bluetooth Link
Mode 2	TX NOTE (1)/(2)

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 1	Bluetooth Link					

For Radiated Emission					
Final Test Mode	Description				
Mode 2	ТХ NOTE (1)/(2)				

Note:

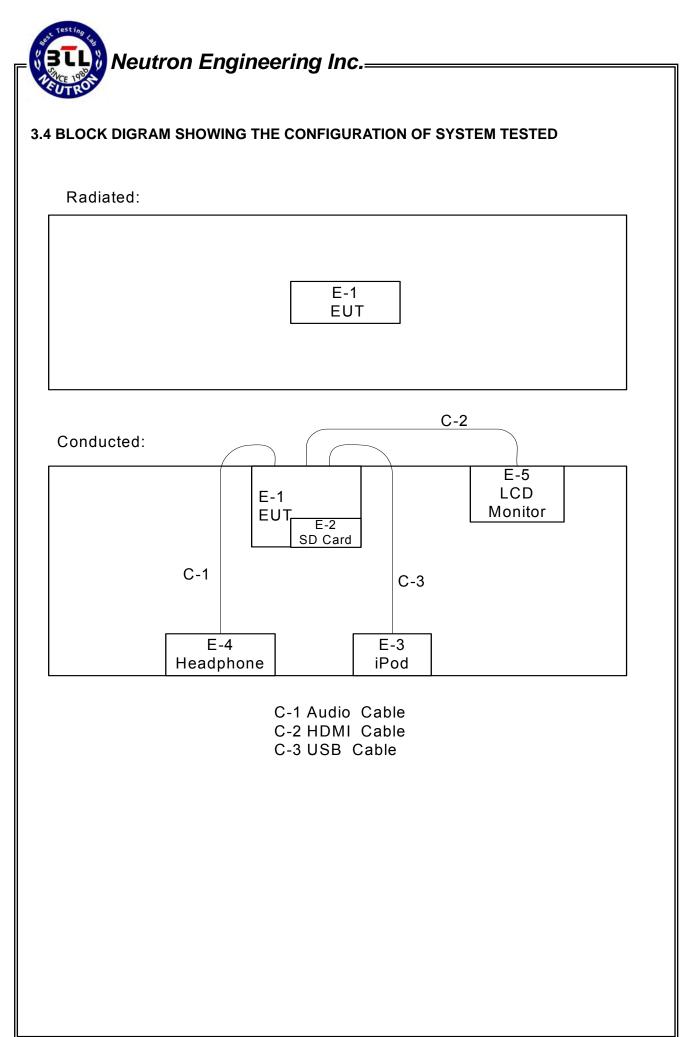
(1) The measurements are performed at the highest, middle, lowest available channels.

(2) 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	Test program: Bluetest 3				
Frequency	2402 MHz	2441 MHz	2480 MHz		
Parameters-1Mbps	63	63	63		
Parameters-3Mbps	100	100	100		





#### **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
E-1	ElitePad S10	ECS;i-Buddie ;olio	S10OT1	WL6-RTL8188C US	N/A	EUT
E-2	SD Card	Kingston	4G	N/A	N/A	
E-3	iPod nano(8G)	Apple	A1320	DOC	YM945ZGJ72A	
E-4	EARPHONE	APPLE	N/A	N/A	N/A	
E-5	LCD Monitor	DELL	U2410	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.1M	
C-2	YES	NO	1.2M	
C-3	YES	NO	1.0M	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in  $\[$ Length $\]$  column.

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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)

FREQUENCY (MHz)	Class A (dBuV)		Class B	Standard	
FREQUENCT (MILZ)	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
5 0 - 30 0 73 00 60 00 60 00 50 00 FC	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	3816/2	00052765	May.26.2011
2	LISN	Rolf Heine	NNB-2-16Z	99044	May.26.2011
3	50Ω Terminator	SHX	TF2-3G-A	08122901	May.26.2011
4	Transient Limiter	Agilent	11947A	3107A03668	May.26.2011
5	Test Cable	N/A	C-06_C03	N/A	Nov.15.2011
6	EMI TEST RECEIVER	R&S	ESCS30	8333641017	May.26.2011

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



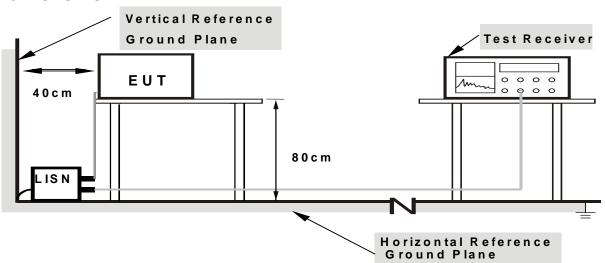
#### 4.1.3 TEST PROCEDURE

- 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

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#### 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 was programmed to be in continuously transmitting/ receiving mode.

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### 4.1.7 TEST RESULTS

					-				
EUT:	EUT : ElitePad S10				Model Nam	Model Name : S10OT1			
Temperatu	ure :	23	°C	Relative Hu	midity:	: 51 %			
Pressure :	Pressure : 1010hPa			Test Power	:	AC 1	20V/60Hz		
Test Mode	e : Bluetooth Link (Adapter : ENG)								
Freq.	Terminal		I Measured(dBuV)		Limits(dBuV)			Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	NULE
0.19	Line		42.88	*	64.02	54.0	2	-21.14	(QP)
0.24	Line		39.84	*	62.22	52.2	2	-22.38	(QP)
0.29	Line		40.15	*	60.51	50.5	1	-20.36	(QP)
0.60	Line		36.58	*	56.00	46.0	0	-19.42	(QP)
2.91	Line		42.60	27.46	56.00	46.0	0	-13.40	(QP)
14.49	Line		44.34	*	60.00	50.0	0	-15.66	(QP)

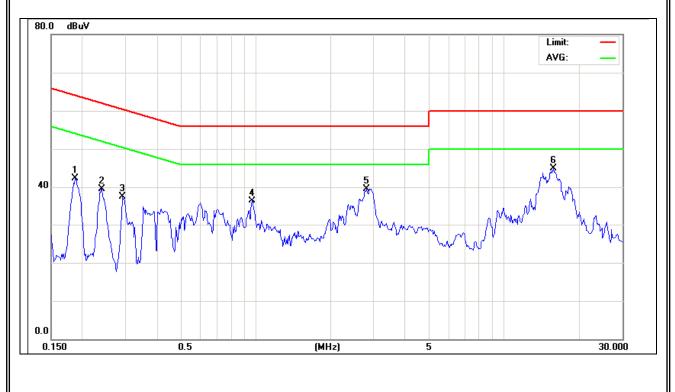
- (1) All readings are QP Mode value unless otherwise stated AVG in column of <sup>ℂ</sup>Note J. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform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





EUT :		ElitePad S10		Model Nam	Model Name : S1		S10OT1		
Temperati	ure :	23	°C		Relative Humidity: 51 %				
Pressure :		101	0hPa		Test Power	:	AC 1	20V/60Hz	
Test Mode	e :	Blu	etooth Link (A	dapter : ENG	i)				
Freq.	Termir	nal	Measure	d(dBuV)	Limits(	(dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	nole
0.19	Neutr	al	42.38	*	64.15	54.1	5	-21.77	(QP)
0.24	Neutr	al	39.49	*	62.10	52.1	0	-22.61	(QP)
0.29	Neutr	al	37.52	*	60.50	50.5	0	-22.98	(QP)
0.97	Neutr	al	36.25	*	56.00	46.0	0	-19.75	(QP)
2.80	Neutr	al	39.56	*	56.00	46.0	0	-16.44	(QP)
15.80	Neutr	al	44.91	*	60.00	50.0	0	-15.09	(QP)

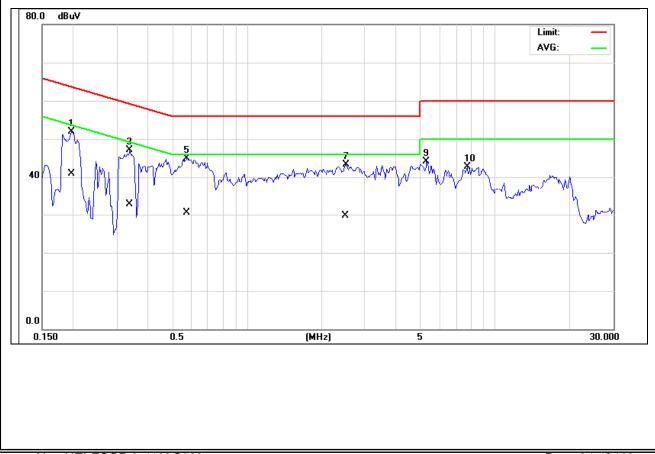
- (1) All readings are QP Mode value unless otherwise stated AVG in column of <sup>ℂ</sup>Note<sub>J</sub>. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't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



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EUT :		Elit	ePad S10	Model Nam	e :	S10	OT1		
Temperatu	ure :	21	°C		Relative Hu	Relative Humidity: 50 %			
Pressure :		101	10hPa		<b>Test Power</b>	:	AC 1	120V/60Hz	
Test Mode	e :	Blu	etooth Link (A	Adapter : DAR	FON)				
Freq.	Termir	nal	Measure	d(dBuV)	Limits(dBuV)			Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	NOLE
0.20	Line		51.89	40.90	63.74	53.7	4	-11.85	(QP)
0.34	Line		47.12	32.71	59.26	49.2	6	-12.14	(QP)
0.58	Line		44.89	30.54	56.00	46.0	0	-11.11	(QP)
2.51	Line		43.33	29.74	56.00	46.0	0	-12.67	(QP)
5.33	Line		44.11	*	60.00	50.0	0	-15.89	(QP)
7.75	Line		42.65	*	60.00	50.0	0	-17.35	(QP)

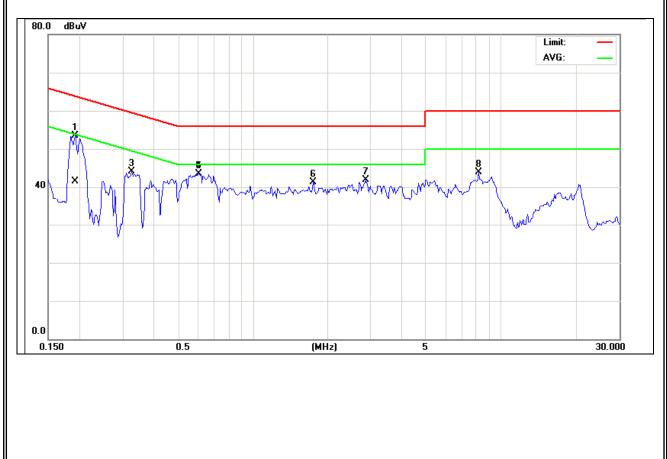
- (1) All readings are QP Mode value unless otherwise stated AVG in column of <sup>r</sup>Note J. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform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



Neutron Engineering Inc.

EUT:		ElitePad S10			Model Nam	e :	S100	OT1	
Temperat	ure:	21	°C		Relative Humidity: 50 %				
Pressure 3		101	0hPa		Test Power	:	AC 1	20V/60Hz	
Test Mode	e :	Blu	etooth Link (A	dapter : DAR	RFON)				
Freq.	Termir	minal Measu		d(dBuV)	Limits(dBuV			Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	NOLE
0.19	Neutra	al	53.53	41.59	63.91	53.9	1	-10.38	(QP)
0.33	Neutra	al	44.07	*	59.56	49.5	6	-15.49	(QP)
0.61	Neutra	al	43.58	*	56.00	46.0	0	-12.42	(QP)
1.74	Neutra	al	41.32	*	56.00	46.0	0	-14.68	(QP)
2.86	Neutra	al	41.84	*	56.00	46.0	0	-14.16	(QP)
8.18	Neutra	al	43.86	*	60.00	50.0	0	-16.14	(QP)

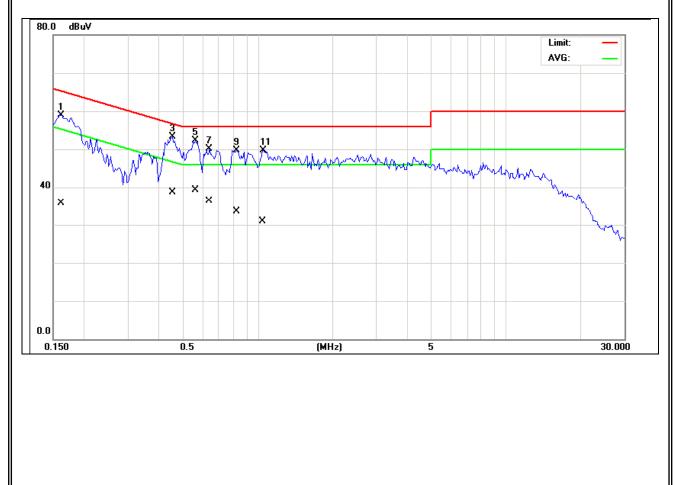
- (1) All readings are QP Mode value unless otherwise stated AVG in column of <sup>ℂ</sup>Note J. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform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





EUT :		ElitePad S10			Model Name : S10OT1				
Temperatu	ure :	21	°C		Relative Hu	Relative Humidity: 50 %			
Pressure :		101	0hPa		Test Power	:	AC 1	20V/60Hz	
Test Mode	e :	Blu	etooth Link (A	dapter : HUN	ITKEY)				
Freq.	Termir	nal	Measure	d(dBuV)	Limits(dBuV)			Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	bde	(dB)	NOLE
0.16	Line		58.99	35.77	65.38	55.3	8	-6.39	(QP)
0.45	Line		53.28	38.73	56.79	46.7	9	-3.51	(QP)
0.56	Line		52.25	39.34	56.00	46.0	0	-3.75	(QP)
0.64	Line		50.11	36.40	56.00	46.0	0	-5.89	(QP)
0.82	Line		49.71	33.55	56.00	46.0	0	-6.29	(QP)
1.05	Line		49.62	30.97	56.00	46.0	0	-6.38	(QP)

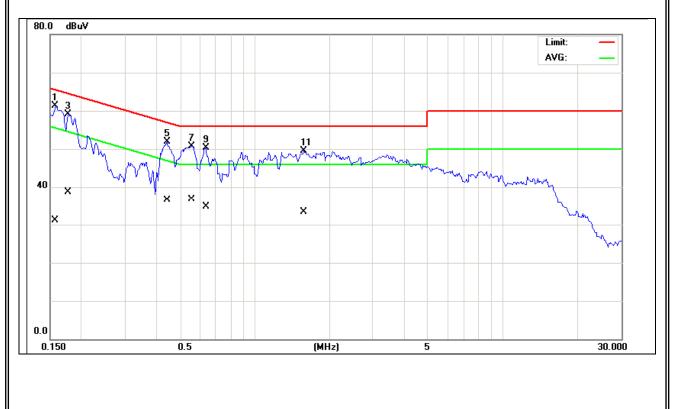
- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case,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



Neutron Engineering Inc.

EUT :		ElitePad S10			Model Nam	e :	S100	OT1	
Temperati	ure :	21	°C		Relative Hu	Relative Humidity: 50 %			
Pressure :		101	0hPa		Test Power	:	AC 1	20V/60Hz	
Test Mode	e :	Blu	etooth Link (A	dapter : HUN	ITKEY)				
Freq.	Termir	nal	Measure	d(dBuV)	Limits(	(dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP-Mode	AV-Mo	ode	(dB)	nole
0.16	Neutr	al	61.39	31.18	65.58	55.5	8	-4.19	(QP)
0.18	Neutr	al	59.20	38.79	64.61	54.6	1	-5.41	(QP)
0.44	Neutr	al	51.81	36.59	57.01	47.0	1	-5.20	(QP)
0.56	Neutr	al	50.69	36.70	56.00	46.0	0	-5.31	(QP)
0.63	Neutr	al	50.31	34.70	56.00	46.0	0	-5.69	(QP)
1.57	Neutr	al	49.47	33.33	56.00	46.0	0	-6.53	(QP)

- (1) All readings are QP Mode value unless otherwise stated AVG in column of <sup>ℂ</sup>Note<sub>J</sub>. 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  $\circ$





#### 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
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/n	n) (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 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower				

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# 4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	ETS	3115	00075789	May.12.2011
2	Amplifier	Agilent	8449B	3008A02274	May.26.2011
3	Spectrum	Agilent	E4408B	US39240143	Nov.15.2011
4	Test Cable	HUBER+SUHNER	CB03 High Fre	N/A	May.03.2011
5	Antenna	Schwarbeck	VULB9160	9160-3232	May.26.2011
6	Amplifier	HP	8447D	2944A09673	May.26.2011
7	Test Receiver	R&S	ESCI	100895	May.26.2011
8	Test Cable	N/A	C-01_CB03	N/A	Jul.05.2011
9	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 band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average			

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



#### 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 semi-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.

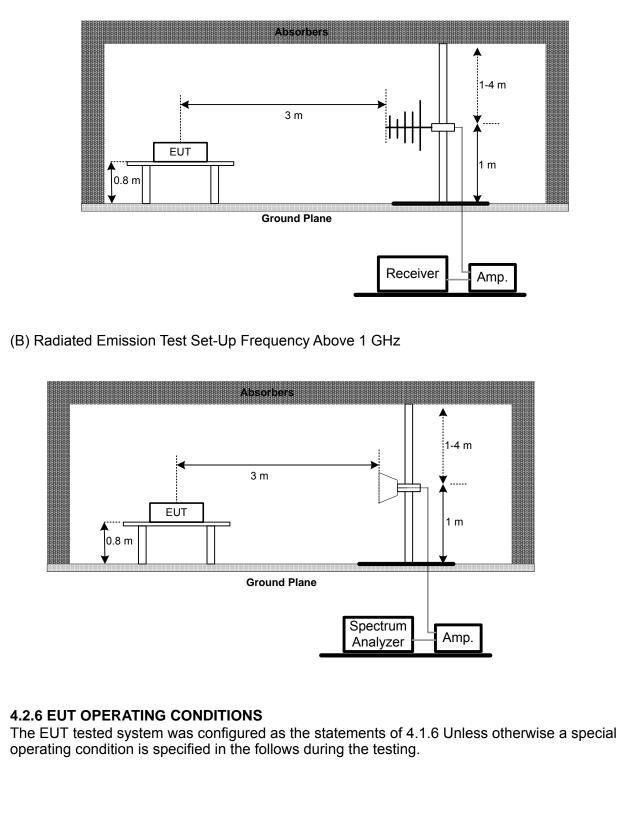
#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation



## 4.2.5 TEST SETUP

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

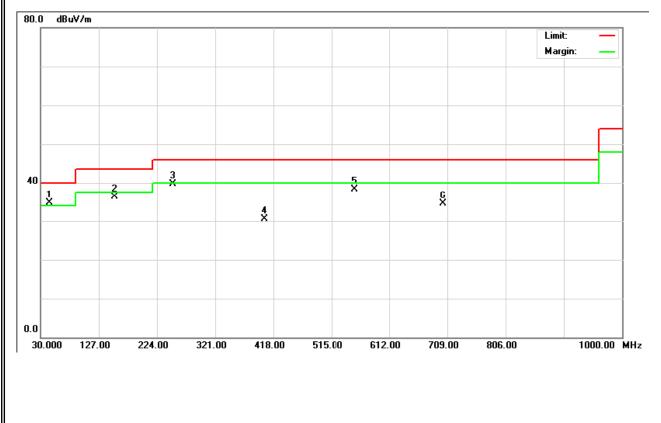


### 4.2.7 TEST RESULTS(BETWEEN 30-1000MHZ)

EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
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
42.14	V	50.59	-15.92	34.67	40.00	- 5.33	
151.29	V	56.62	-20.28	36.34	43.50	- 7.16	
250.68	V	56.46	-16.81	39.65	46.00	- 6.35	
401.03	V	42.54	-12.10	30.44	46.00	- 15.56	
551.43	V	47.11	-8.80	38.31	46.00	- 7.69	
701.73	V	39.76	-5.33	34.43	46.00	- 11.57	

- (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 <code>『Note』</code>. 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  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$

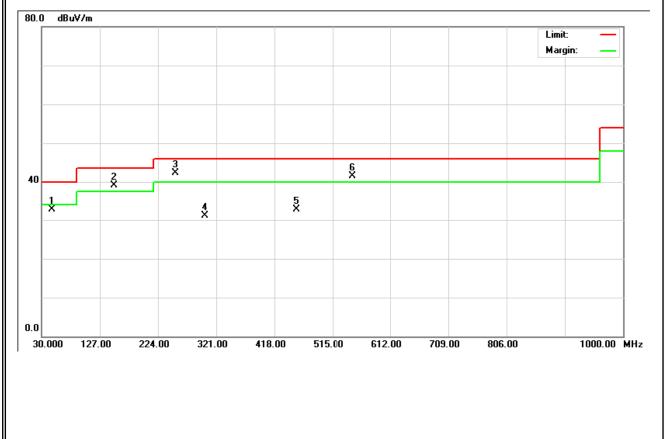




EUT :	ElitePad S10	Model Name :	S100T1
Temperature :	<b>20</b> ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz –CH00-1Mbps		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
44.64	H	50.72	-18.09	32.63	40.00	- 7.37	
148.88	Н	59.70	-20.56	39.14	43.50	- 4.36	
250.77	Н	59.19	-16.80	42.39	46.00	- 3.61	
299.22	Н	46.23	-15.17	31.06	46.00	- 14.94	
454.31	Н	44.72	-11.94	32.78	46.00	- 13.22	
548.95	Н	50.33	-8.84	41.49	46.00	- 4.51	

- (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 <code>『Note』</code>. 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  $\circ$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$

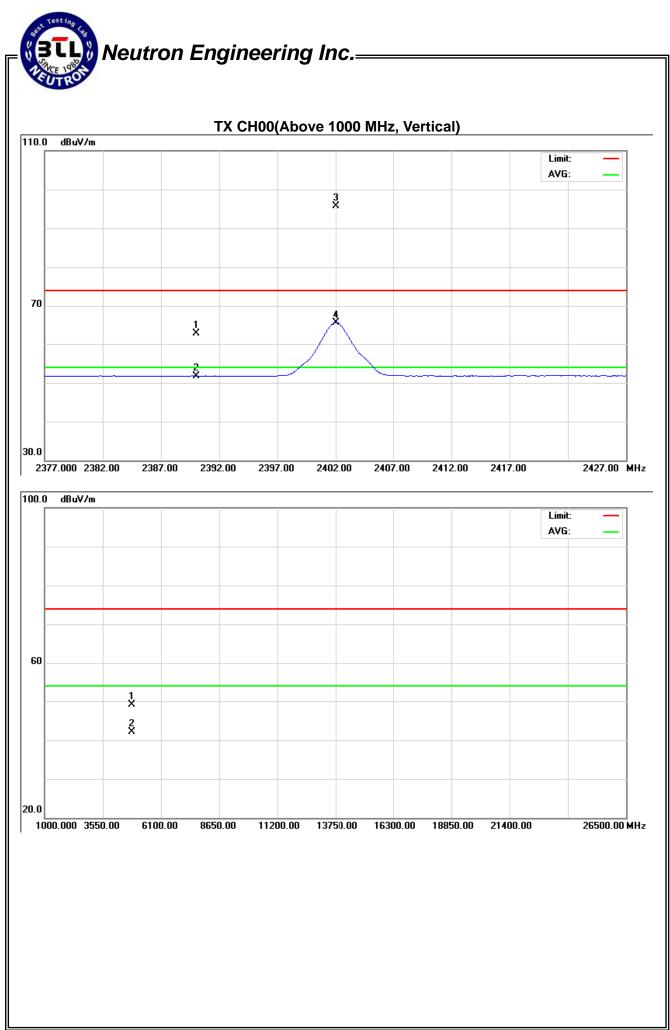


#### 4.2.8 TEST RESULTS(ABOVE 1000 MHZ)

EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> ℃	Relative Humidity:	53 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz – CH 00-1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	A	ct.	Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	31.26	20.26	31.54	62.80	51.80	74.00	54.00	X/E
2402.05	V	64.12	34.01	31.56	95.68	65.57			X/F
4804.16	V	43.23	36.21	5.94	49.17	42.15	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency<sup>o</sup>"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

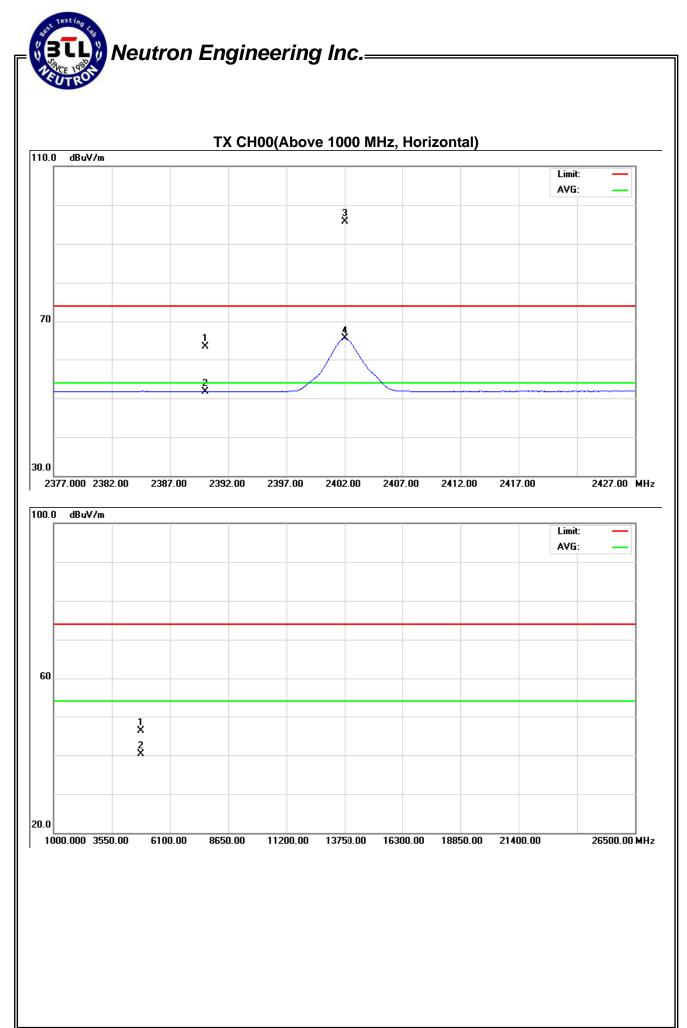




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> °C	Relative Humidity :	53 %
Pressure :	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz – CH 00-1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	31.78	20.22	31.54	63.32	51.76	74.00	54.00	X/E
2402.00	Н	64.11	33.91	31.56	95.67	65.47			X/F
4804.16	Н	40.44	34.35	5.94	46.38	40.29	74.00	54.00	X/H

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

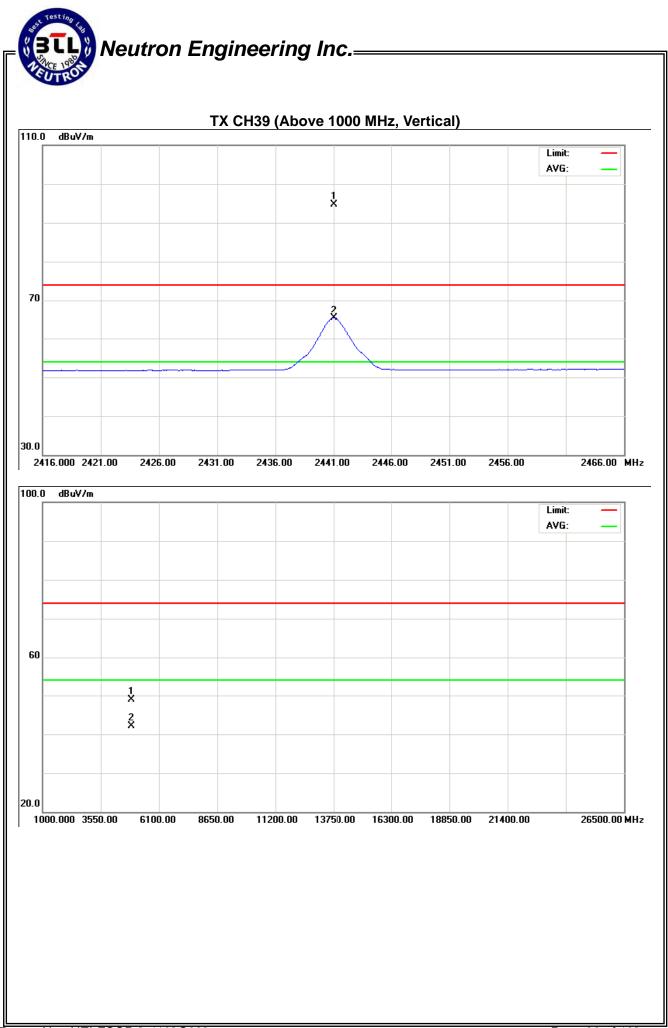




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> ℃	Relative Humidity :	53 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz –CH39-1Mbps		

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)	
2441.05	V	63.15	33.68	31.63	94.78	65.31			X/F
4882.03	V	42.69	35.91	6.17	48.86	42.08	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>"Note\_"</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency.
   "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal 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

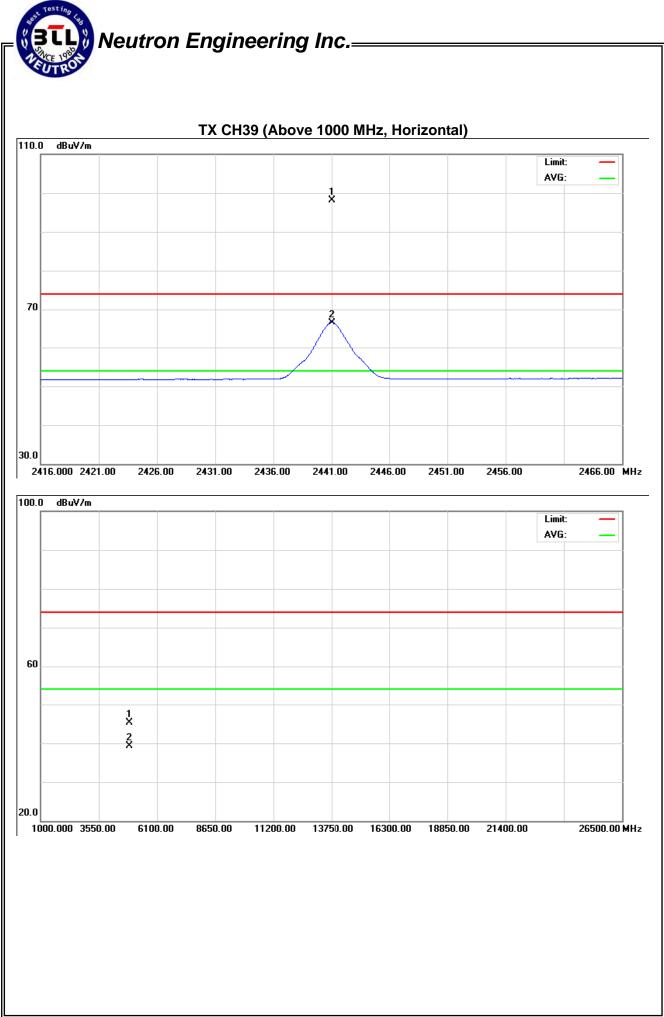




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> ℃	Relative Humidity :	53 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz –CH39-1Mbps		

II								-		
	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)	
	2441.05	Н	66.39	34.84	31.63	98.02	66.47			X/F
	4882.03	Н	39.12	33.11	6.17	45.29	39.28	74.00	54.00	X/H

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

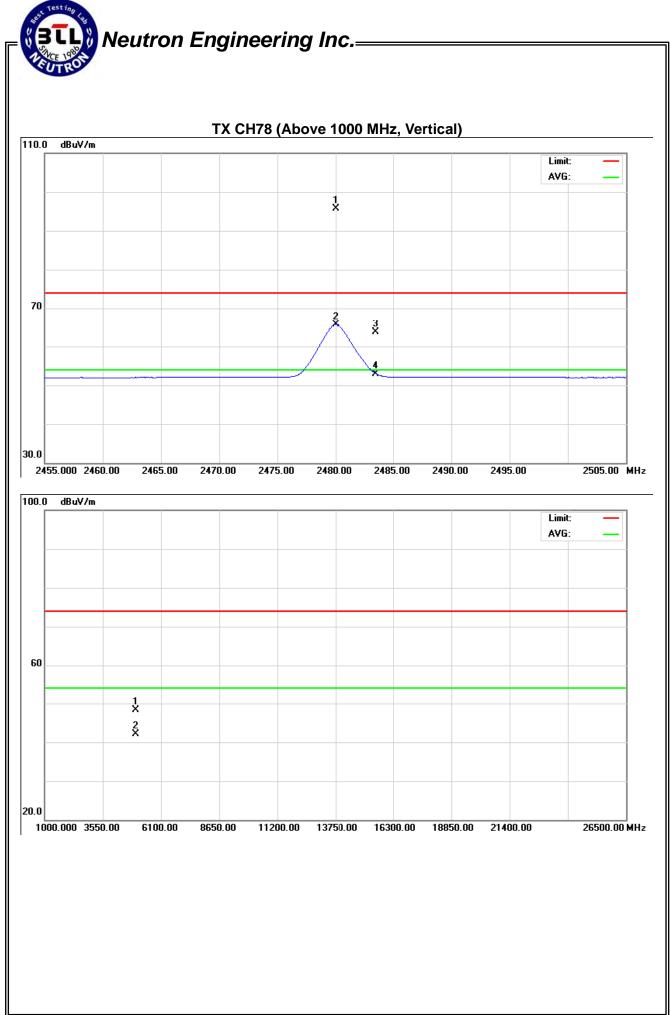




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> ℃	Relative Humidity :	53 %
Pressure :	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz -CH78-1Mbps	-	

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)	
(MHz) 2480.05 2483.50 4960.70	V	63.92	34.02	31.69	95.61	65.71			X/F
2483.50	V	31.92	21.30	31.70	63.62	53.00	74.00	54.00	X/E
4960.70	V	41.86	35.68	6.39	48.25	42.07	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency.
   "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal 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

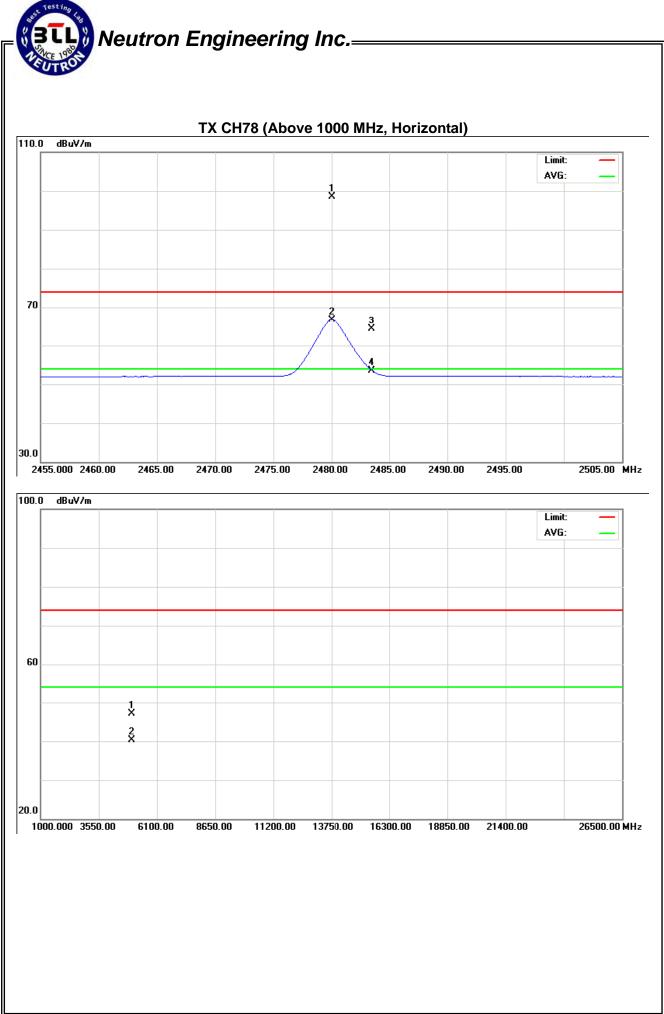




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> ℃	Relative Humidity :	53 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz –CH78-1Mbps		

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)	
(MHz) 2480.05 2483.50 4960.70	Н	66.72	34.99	31.69	98.41	66.68			X/F
2483.50	Н	32.65	21.90	31.70	64.35	53.60	74.00	54.00	X/E
4960.70	Н	40.77	33.88	6.39	47.16	40.27	74.00	54.00	X/H

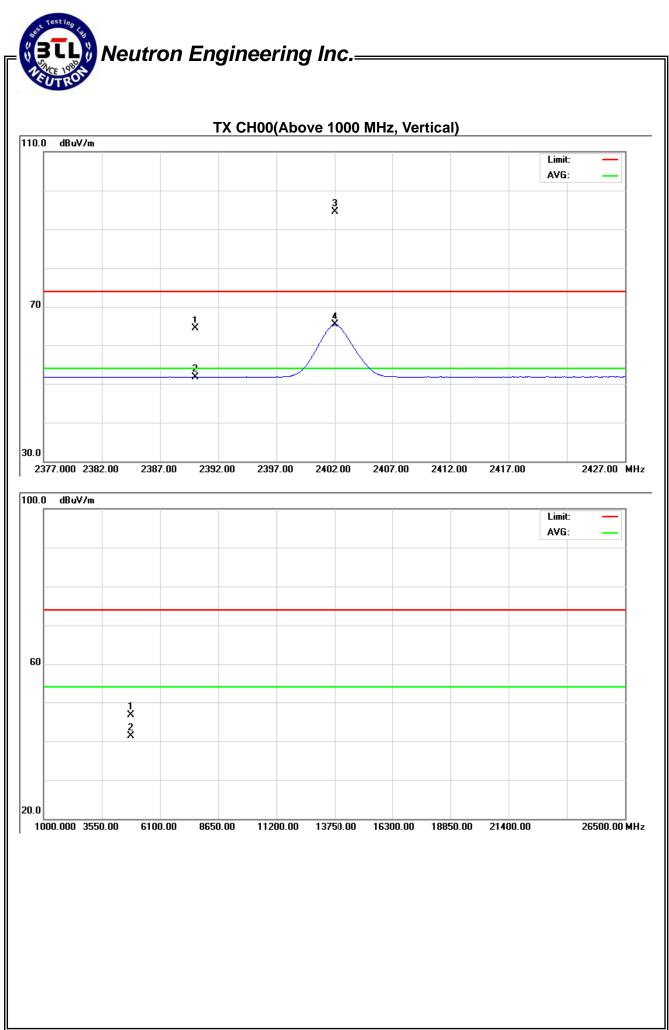
- (1) All readings are Peak unless otherwise stated QP in column of <code>"Note\_"</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental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



EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> °C	Relative Humidity:	53 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz – CH 00-3Mbps		

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)	
2390.00	V	32.77	20.21	31.54	64.31	51.75	74.00	54.00	X/E
2402.05	V	63.04	33.65	31.56	94.60	65.21			X/F
4804.03	V	40.77	35.42	5.94	46.71	41.38	74.00	54.00	X/H

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

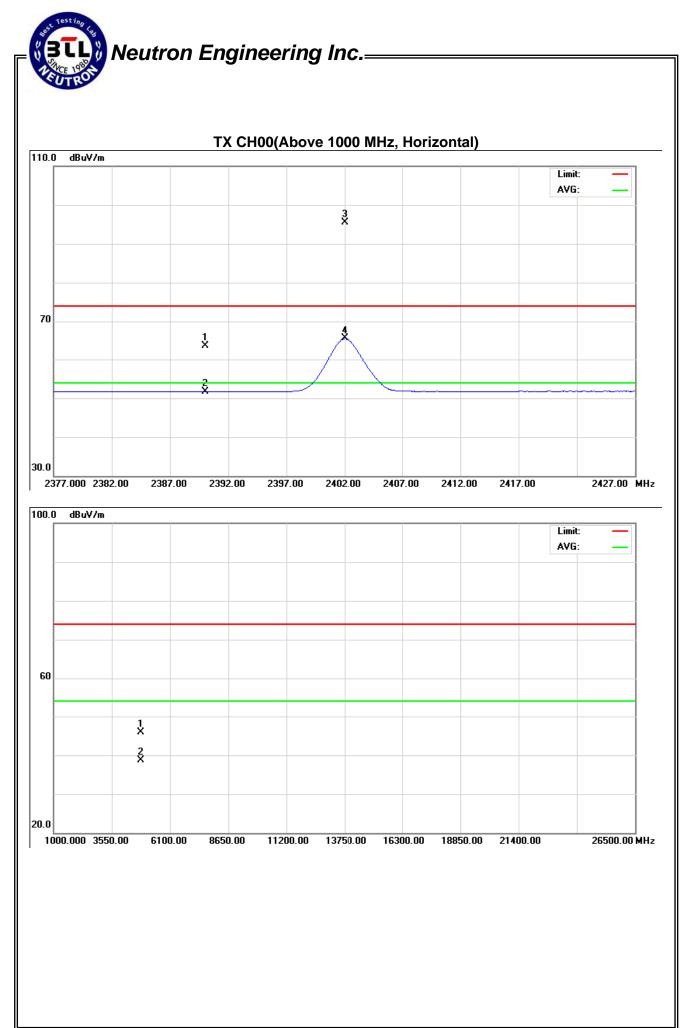




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> ℃	Relative Humidity:	53 %
Pressure :	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz – CH 00-3Mbps		

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)	
2390.00	Н	32.04	20.24	31.54	63.58	51.78	74.00	54.00	X/E
2402.05	Н	63.85	33.88	31.56	95.41	65.44			X/F
4804.03	Н	40.02	32.80	5.94	45.96	38.74	74.00	54.00	X/H

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

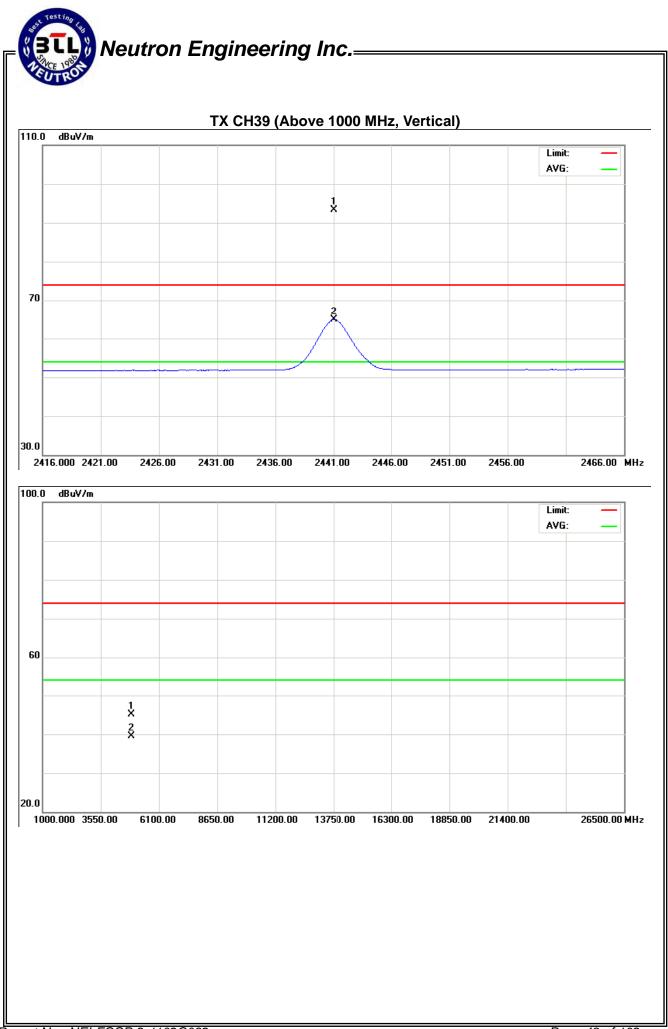




EUT:	ElitePad S10	Model Name :	S100T1
Temperature :	<b>20</b> ℃	Relative Humidity :	53 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz –CH39-3Mbps		

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)	
2441.05	V	61.76	33.35	31.63	93.39	64.98			X/F
4881.69	V	39.00	33.39	6.17	45.17	39.56	74.00	54.00	X/H

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

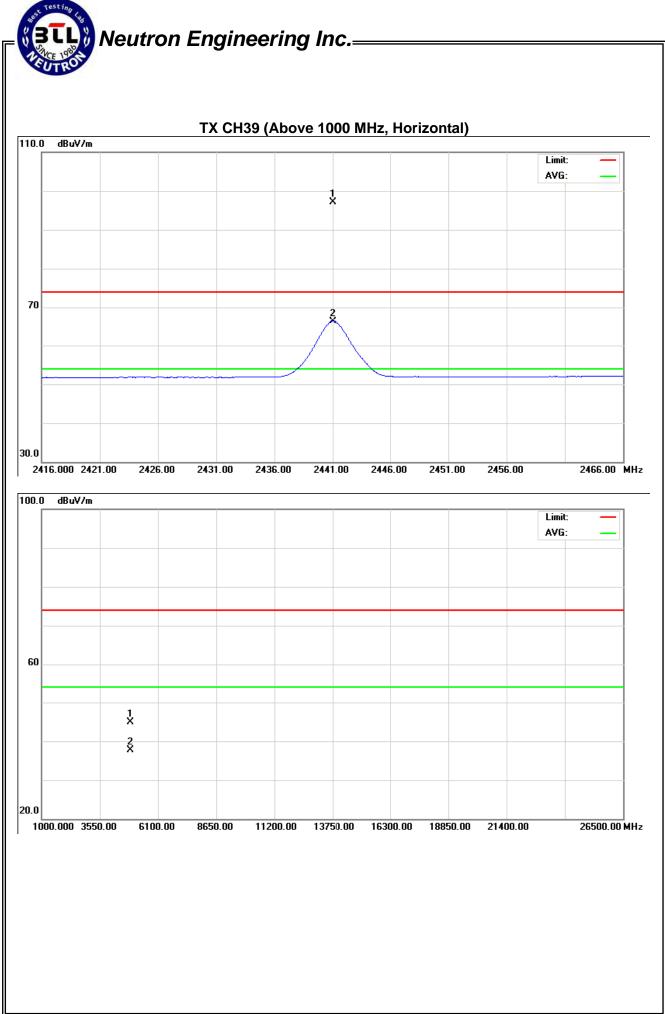




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> °C	Relative Humidity :	53 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz –CH39-3Mbps		

Freq.	Ant.Pol.	Read	ling	Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.05	Н	65.52	34.63	31.63	97.15	66.26			X/F
4881.69	Н	38.69	31.46	6.17	44.86	37.63	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency<sup>o</sup>"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

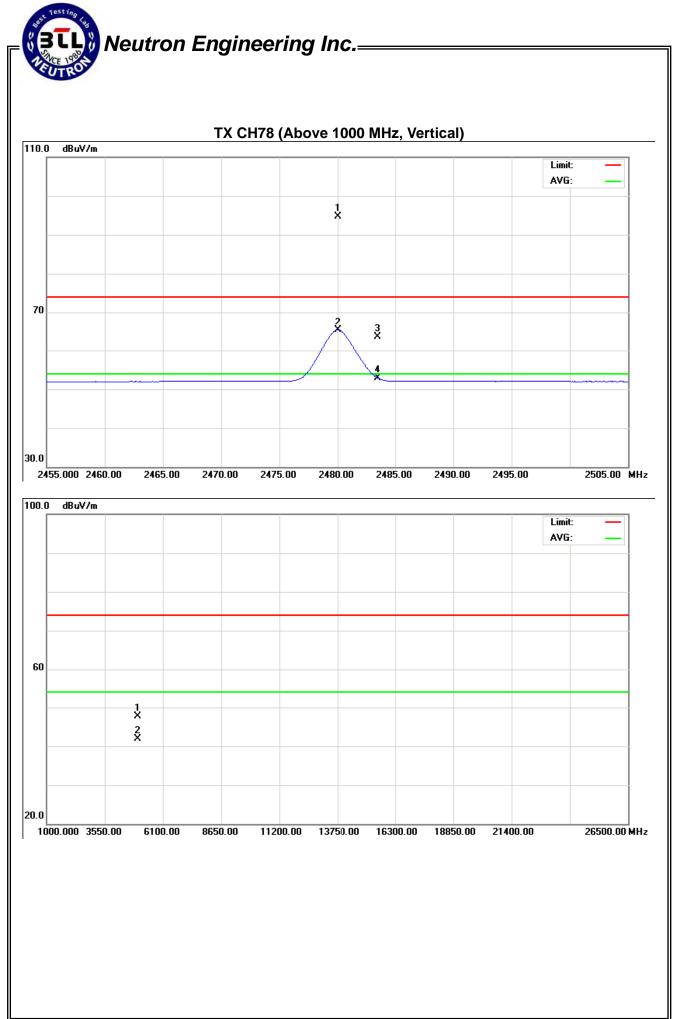




EUT :	ElitePad S10	Model Name :	S100T1
Temperature :	<b>20</b> ℃	Relative Humidity :	53 %
Pressure :	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz –CH78-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.05	V	63.05	33.62	31.69	94.74	65.31			X/F
2483.50	V	31.87	21.19	31.70	63.57	52.89	74.00	54.00	X/E
4960.19	V	41.29	35.46	6.40	47.69	41.86	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency<sup>o</sup>"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

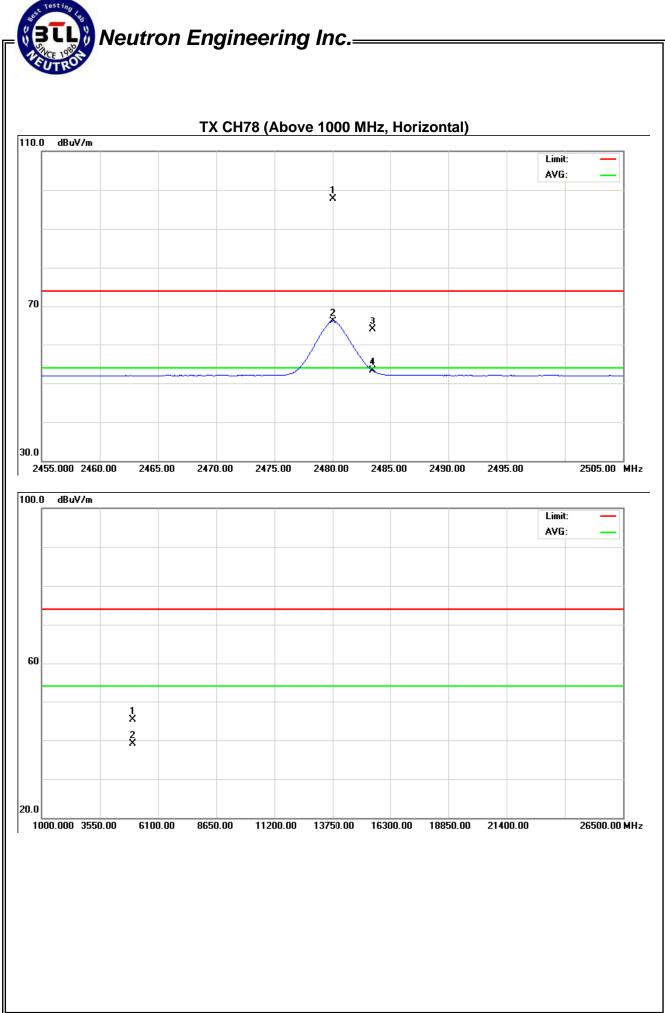




EUT:	ElitePad S10	Model Name :	S100T1
Temperature :	<b>20</b> ℃	Relative Humidity :	53 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz –CH78-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.05	Н	65.94	34.33	31.69	97.63	66.02			X/F
2483.50	Н	32.17	21.51	31.70	63.87	53.21	74.00	54.00	X/E
4960.27	Н	38.89	32.66	6.39	45.28	39.05	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency<sup>o</sup>"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



#### 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.26.2011

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

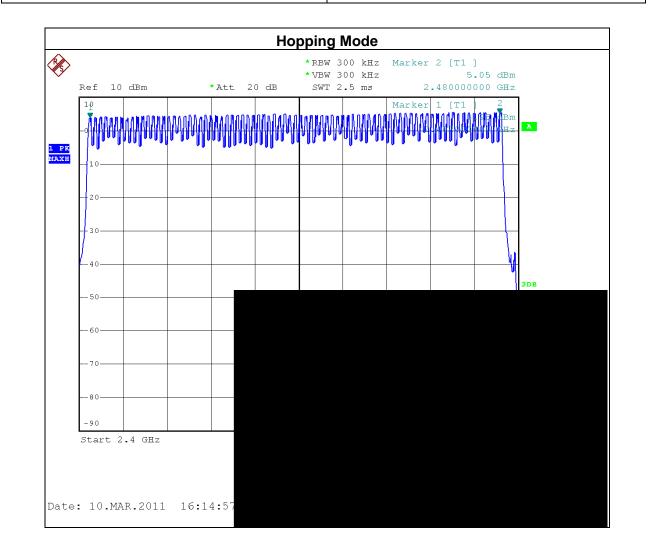
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 5.1.6 TEST RESULTS

Temperature :   20 °C   Relative Humidity :   60 %	-1umidity : 60.0/	
		Temperature: 20 °C
Pressure : 1010 hPa Test Voltage : AC 120V/60Hz	age : AC 120V/60Hz	Pressure : 1010 hPa
Test Mode : Hopping Mode-1Mbps		Test Mode : Hopping Mode-1Mbps

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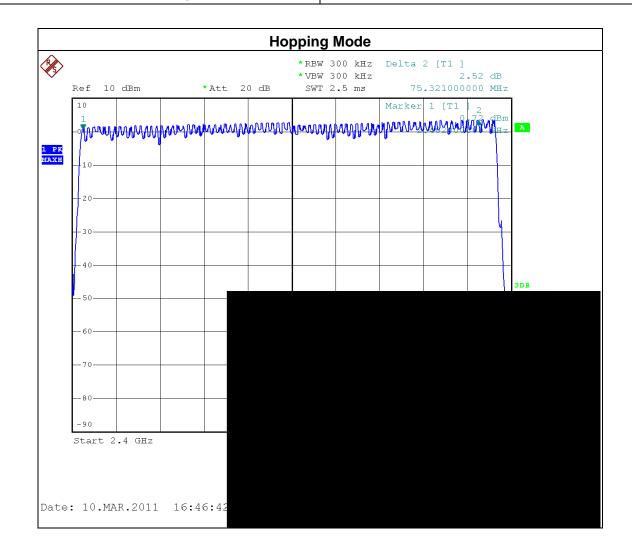
### Number of Hopping Channel



EUT:	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> ℃	Relative Humidity:	60 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Hopping Mode-3Mbps		

Number of Hopping Channel





#### 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

I	tem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

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.
- $\tilde{h}$ . 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 RX, 1 time slot TX). 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 RX, 1 time slot TX). 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 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.

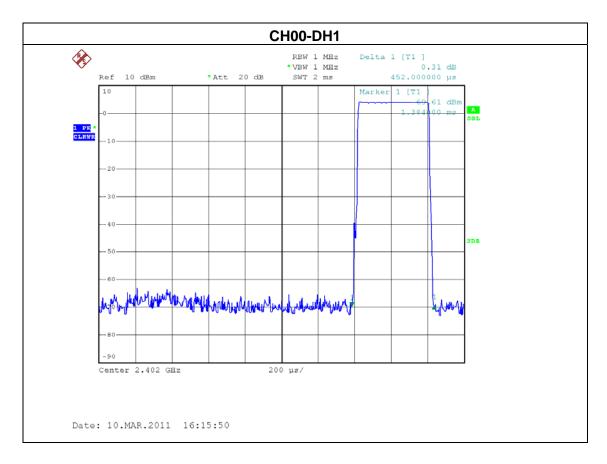
6.1.4 TEST SETUP	
EUT	SPECTRUM
	ANALYZER
6.1.5 EUT OPERATION CONDITIONS The EUT tested system was configured as the statements of operating condition is specified in the follows during the testir	4.1.6 Unless otherwise a special ng.

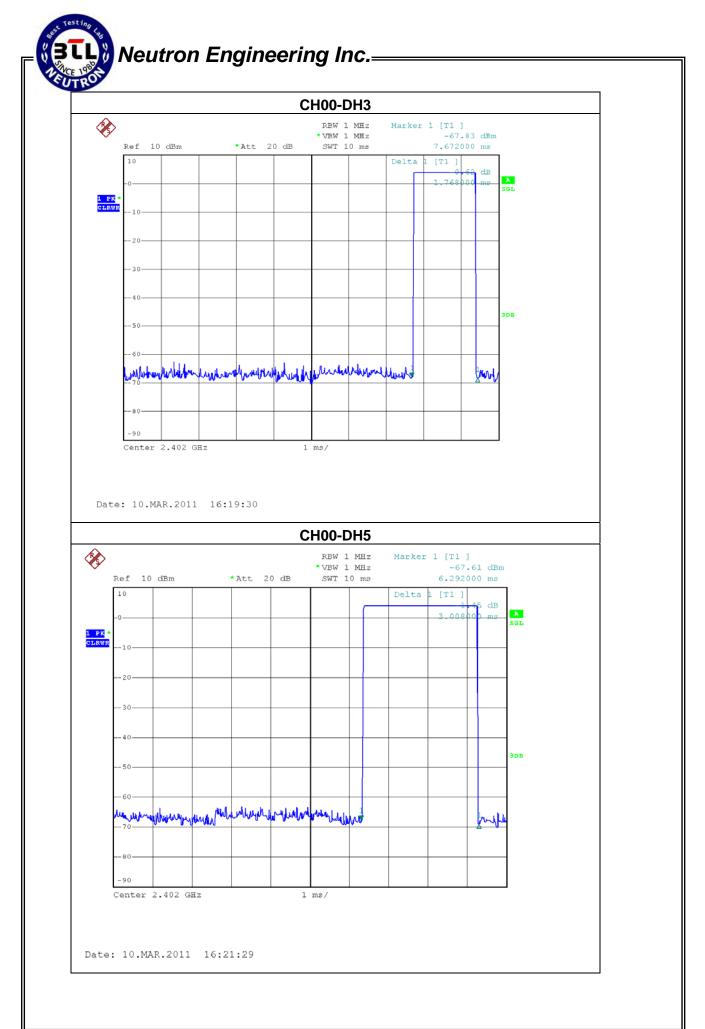
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#### 6.1.6 TEST RESULTS

EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> °C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00-DH1/DH3/DH5-1Mbps		

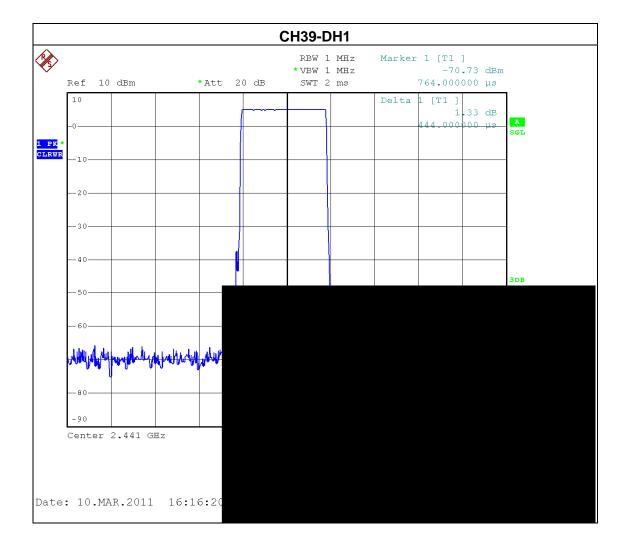
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	3.0080	0.3209	0.4000
DH3	2402 MHz	1.7680	0.2829	0.4000
DH1	2402 MHz	0.4520	0.1446	0.4000

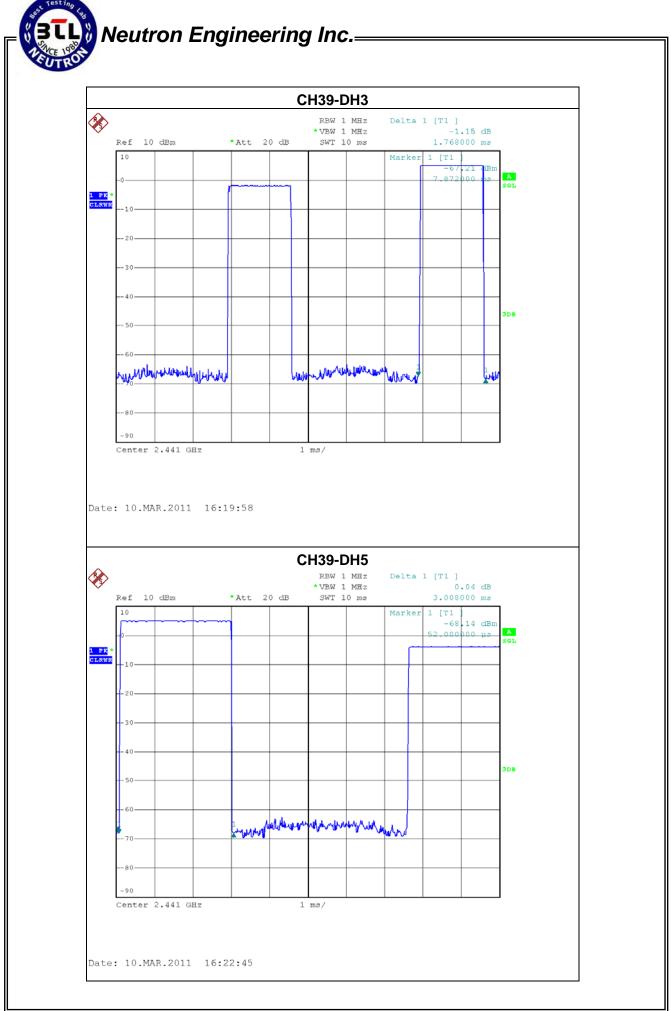




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> ℃	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH39 -DH1/DH3/DH5-1Mbps		

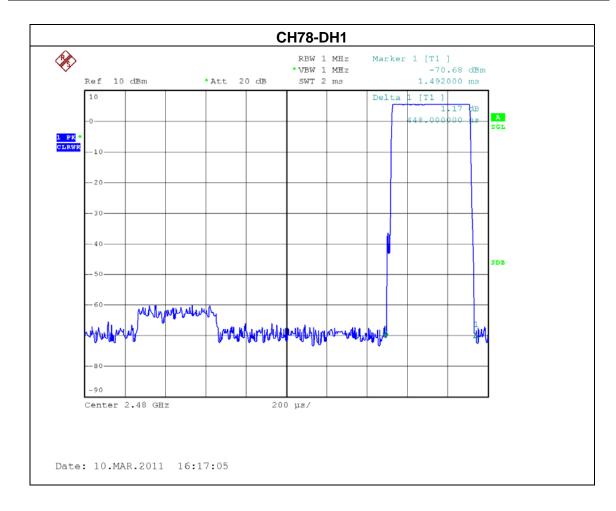
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.0080	0.3209	0.4000
DH3	2441 MHz	1.7680	0.2829	0.4000
DH1	2441 MHz	0.4440	0.1421	0.4000

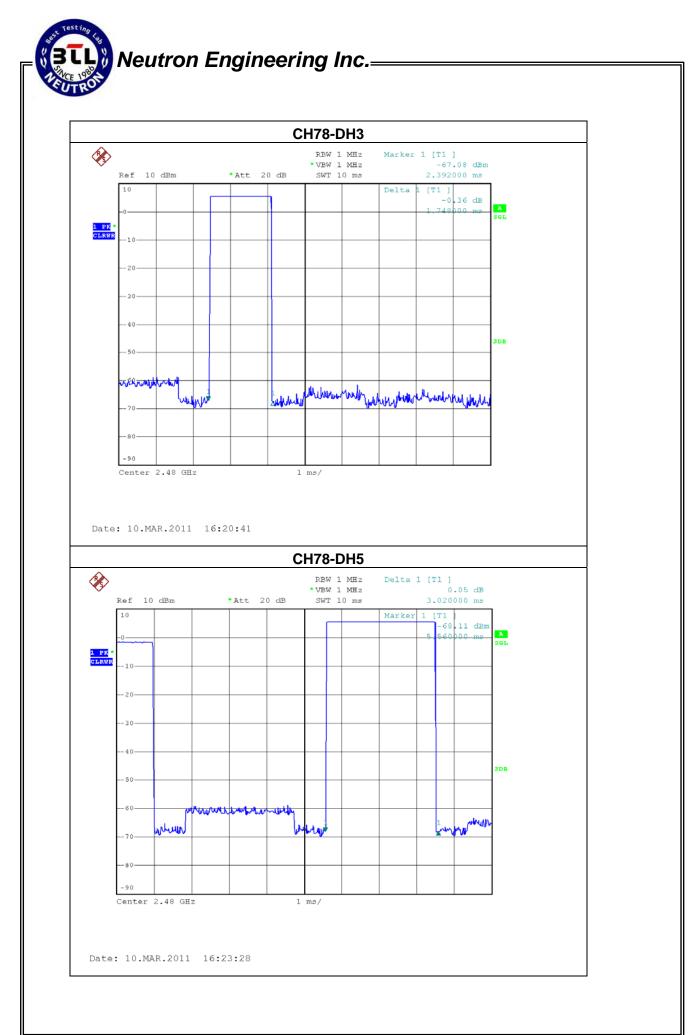




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> °C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH78 -DH1/DH3/DH5-1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	3.0200	0.3221	0.4000
DH3	2480 MHz	1.7480	0.2797	0.4000
DH1	2480 MHz	0.4480	0.1434	0.4000

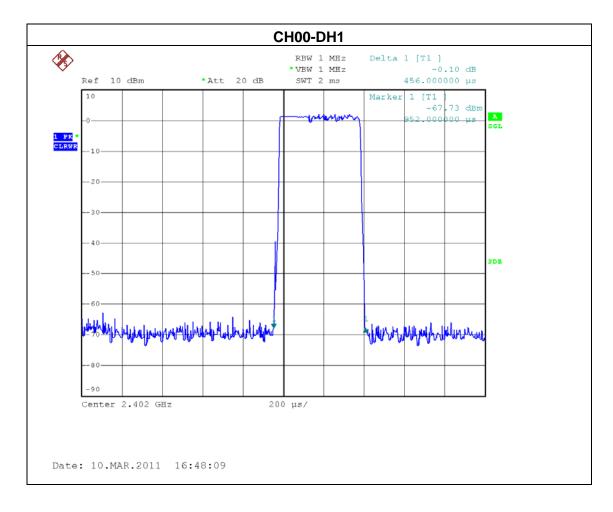


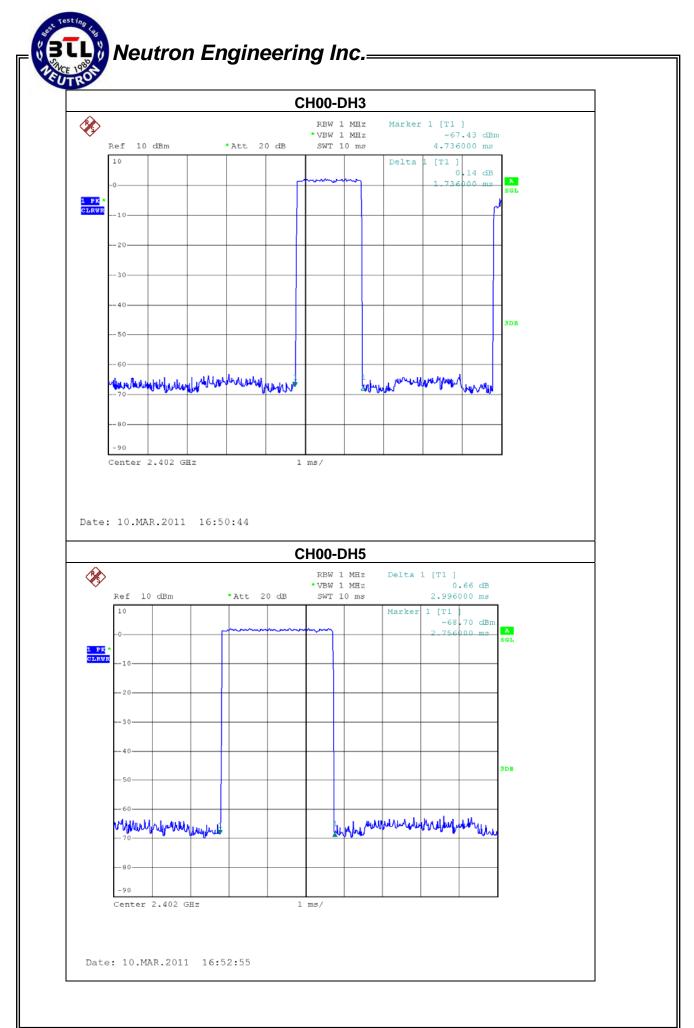




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> ℃	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00-DH1/DH3/DH5-3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	2.9960	0.3196	0.4000
DH3	2402 MHz	1.7360	0.2778	0.4000
DH1	2402 MHz	0.4560	0.1459	0.4000

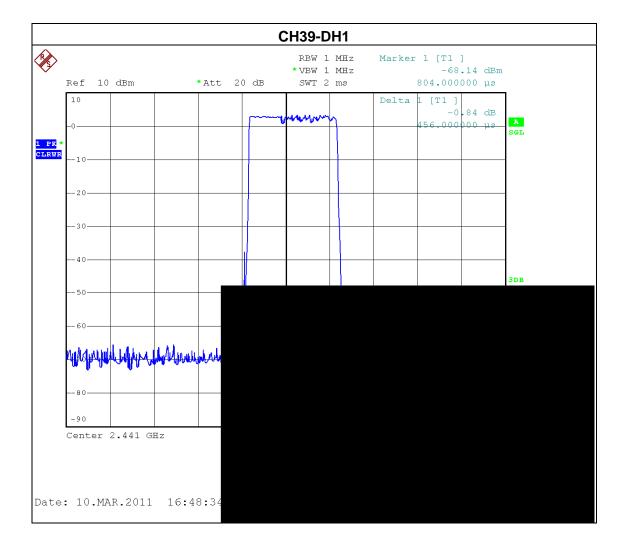


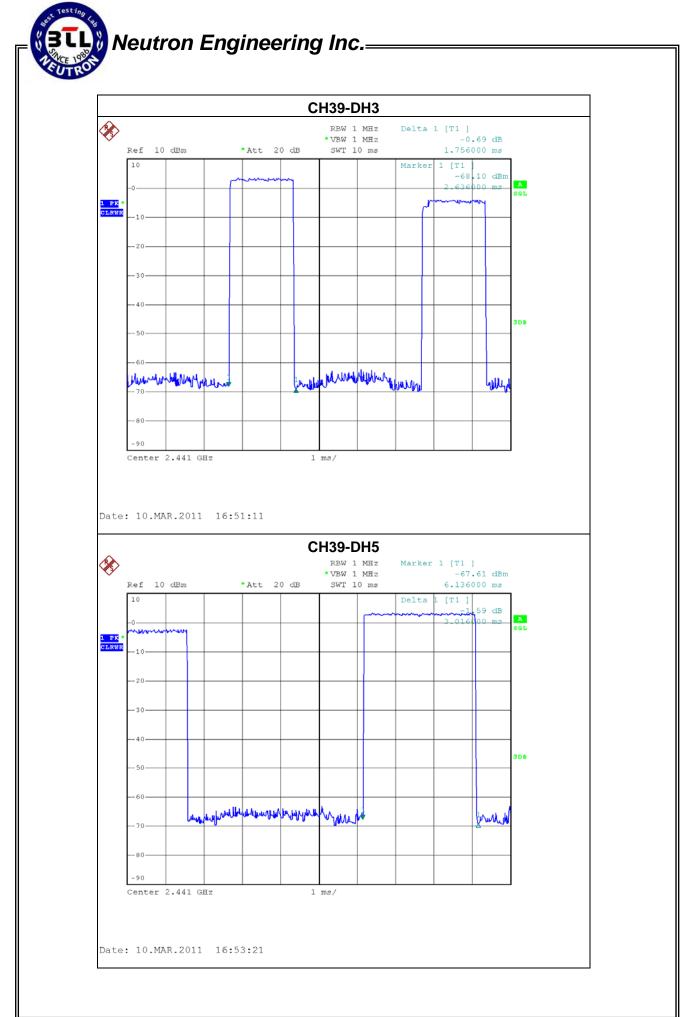


Report No.: NEI-FCCP-2-1102C032

EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> ℃	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH39 -DH1/DH3/DH5-3Mbps		

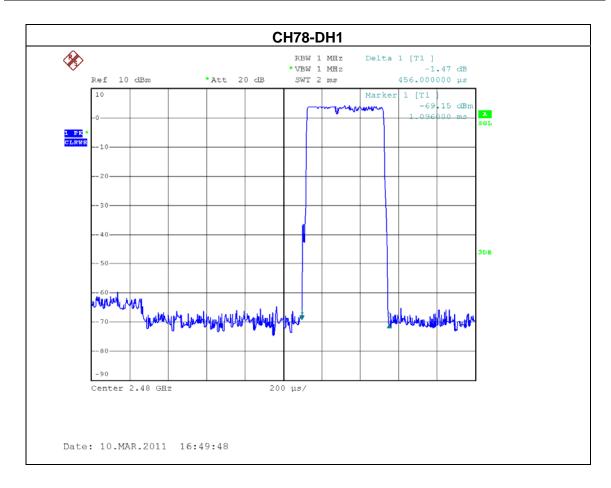
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.0160	0.3217	0.4000
DH3	2441 MHz	1.7560	0.2810	0.4000
DH1	2441 MHz	0.4560	0.1459	0.4000

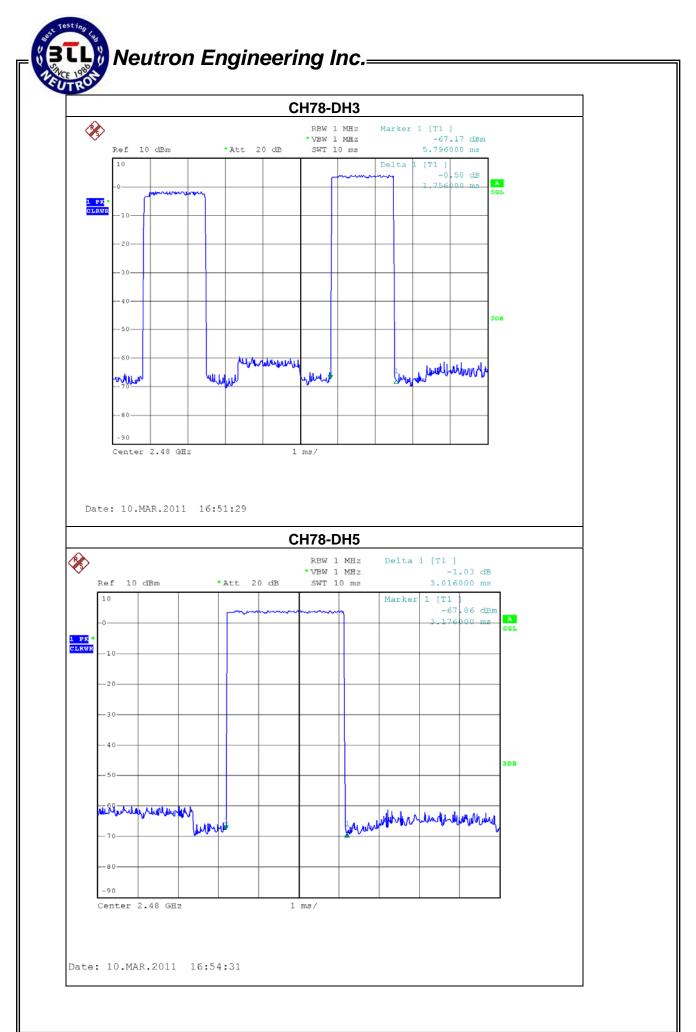




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	20 °C	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH78 -DH1/DH3/DH5-3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	3.0160	0.3217	0.4000
DH3	2480 MHz	1.7560	0.2810	0.4000
DH1	2480 MHz	0.4560	0.1459	0.4000





Report No.: NEI-FCCP-2-1102C032



#### 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.26.2011

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	10 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

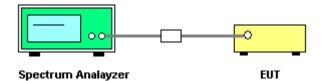
#### 7.1.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 10 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- c. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

#### 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 on mode.

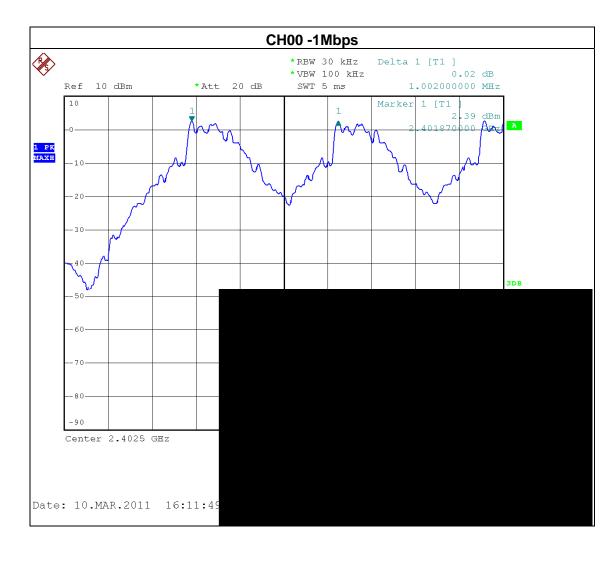


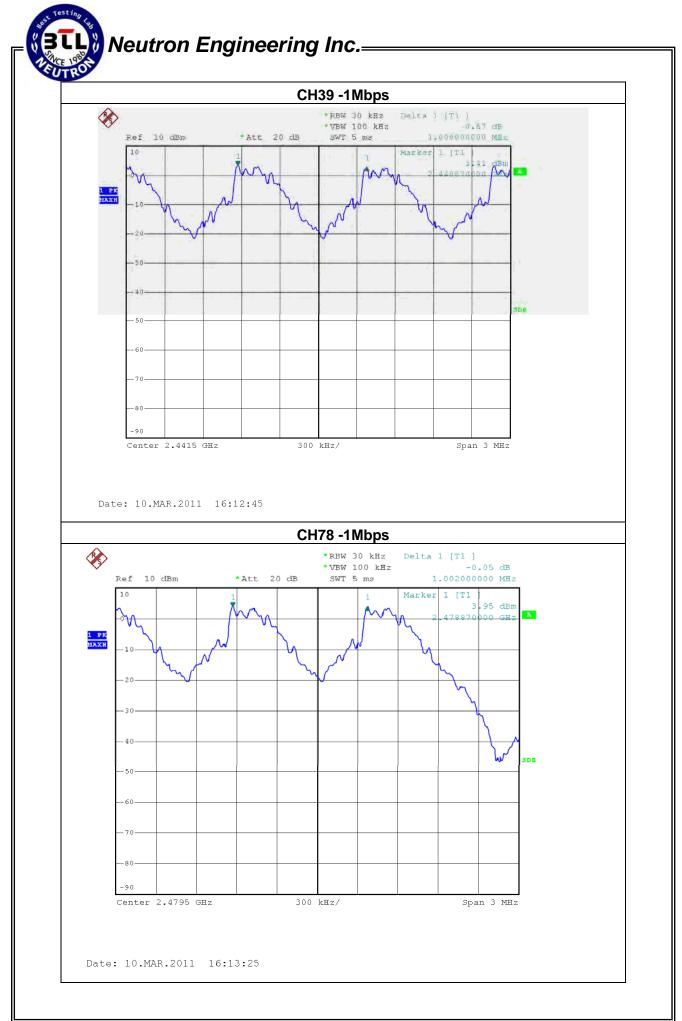
#### 7.1.6 TEST RESULTS

EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>20</b> °C	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Hopping on -CH00 / CH39 /CH78-1Mbps		

Frequency	Ch. Separation (MHz)	20dB Bandwidth (kHz)	Result
2402 MHz	1	858.00	Complies
2441 MHz	1	848.00	Complies
2480 MHz	1	848.00	Complies

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



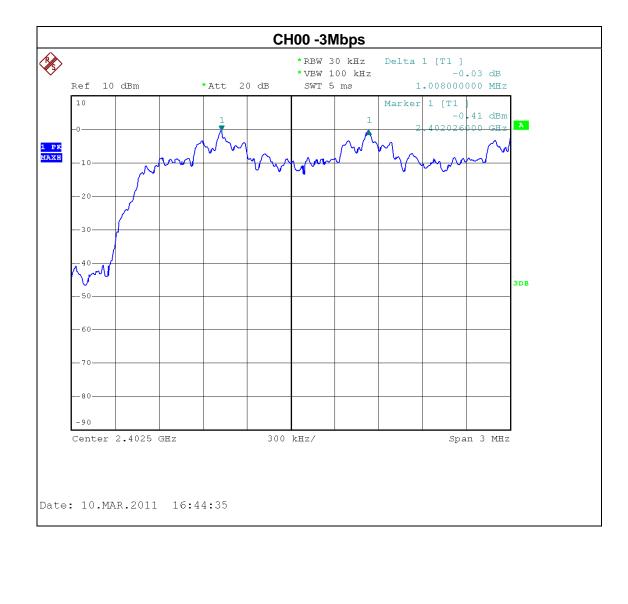


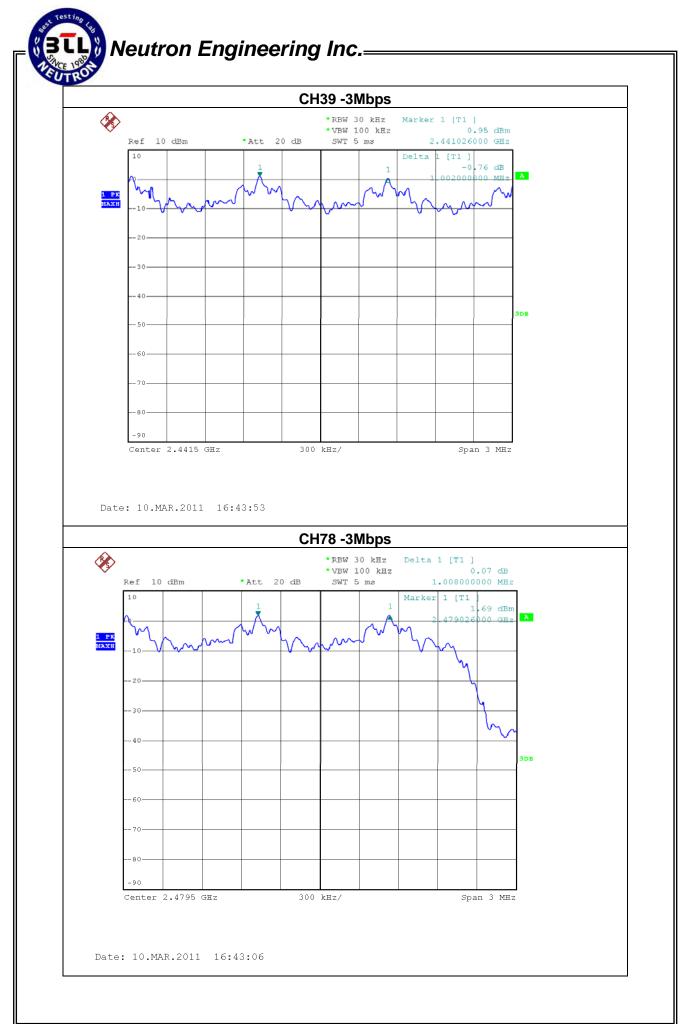
Report No.: NEI-FCCP-2-1102C032

EUT:	ElitePad S10	Model Name :	S10OT1	
Temperature :	<b>20</b> °C	Relative Humidity:	60 %	
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	Hopping on -CH00 / CH39 /CH78-3Mbps			

Frequency	Ch. Separation (MHz)	20dB Bandwidth (MHz)	Result
2402 MHz	1	1.228	Complies
2441 MHz	1	1.228	Complies
2480 MHz	1	1.267	Complies

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





#### 8. BANDWIDTH TEST

#### 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(2)	Bandwidth	None	2400-2483.5	PASS

#### 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.26.2011

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	10 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= 10KHz, VBW=100KHz, Sweep time = Auto.

#### **8.1.3 DEVIATION FROM STANDARD**

No deviation.

#### 8.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

#### 8.1.5 EUT OPERATION CONDITIONS

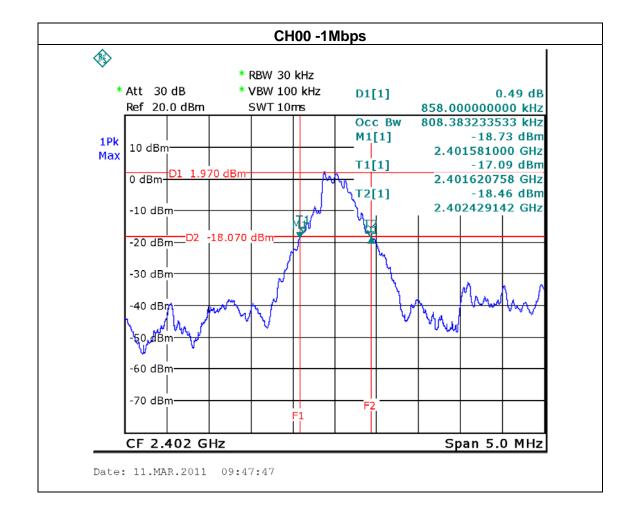
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

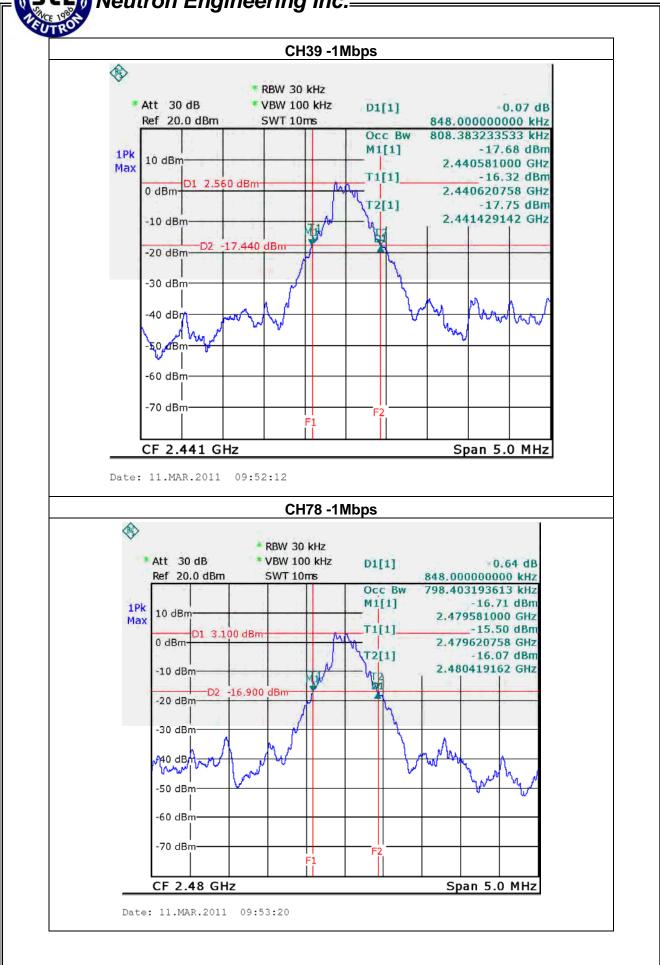


#### 8.1.6 TEST RESULTS

EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>25</b> ℃	Relative Humidity :	51 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	20dB Bandwidth (KHz)	Channel Separation (MHz)	Result
2402 MHz	858.00	<= 1MHz	PASS
2441 MHz	848.00	<= 1MHz	PASS
2480 MHz	848.00	<= 1MHz	PASS

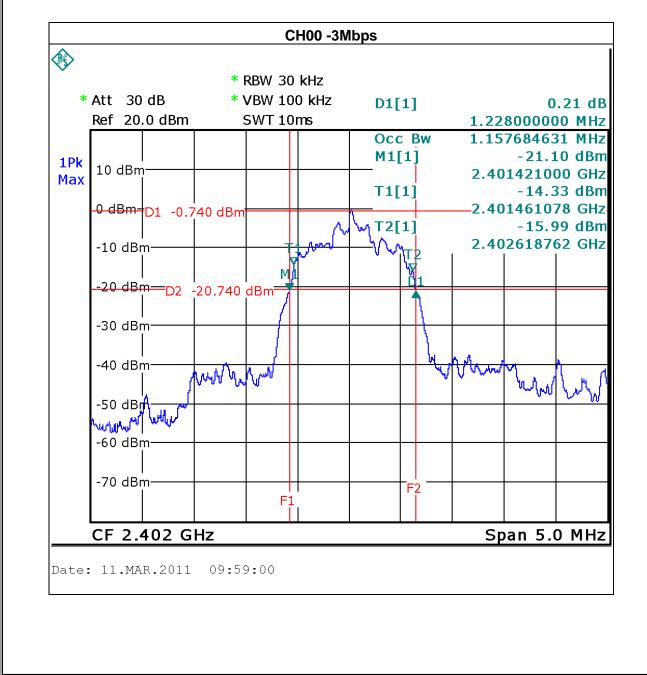


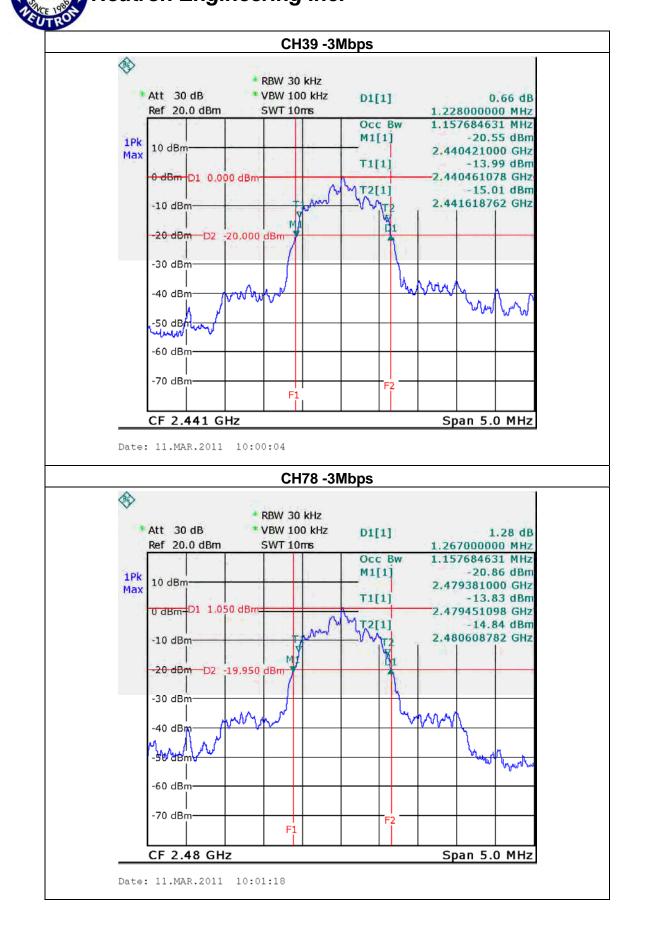




EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>25</b> ℃	Relative Humidity :	51 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 /CH78-3Mbps		

Frequency	20dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2402 MHz	1.23	<= 1MHz	PASS
2441 MHz	1.23	<= 1MHz	PASS
2480 MHz	1.27	<= 1MH	PASS





#### 9. PEAK OUTPUT POWER TEST

#### 9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C					
Section         Test Item         Limit         Frequency Range (MHz)         Result				Result	
15.247 (b)(1)	Peak Output Power	0.125 watt or 21 dBm	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.26.2011

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= 1MHz, VBW= 1MHz, 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

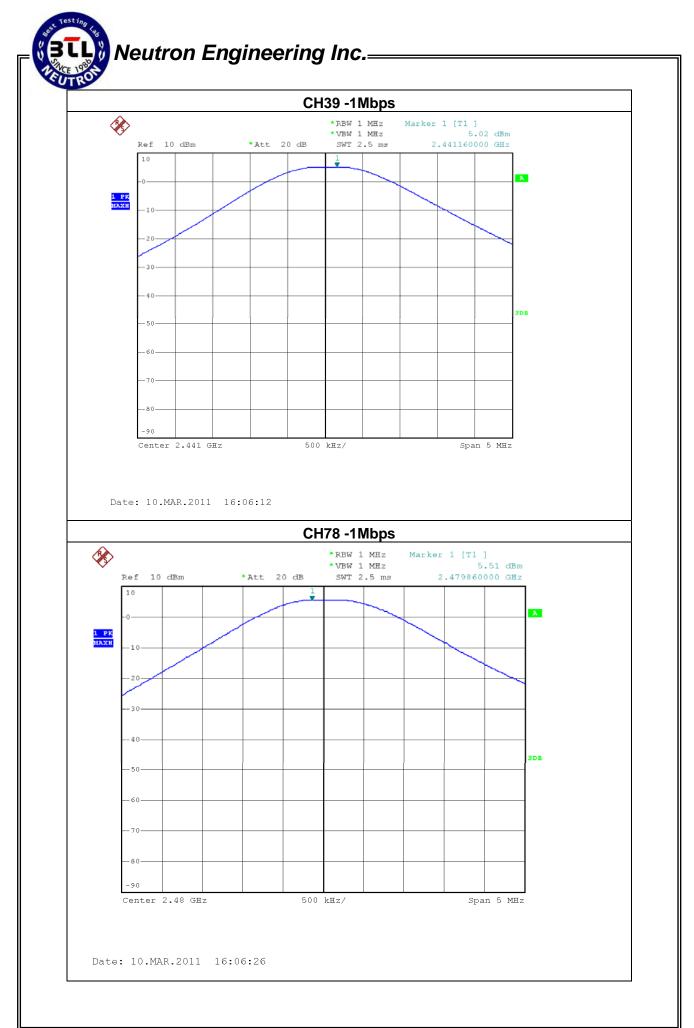
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 9.1.6 TEST RESULTS

EUT :	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>25</b> ℃	Relative Humidity :	51 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -1Mbps		

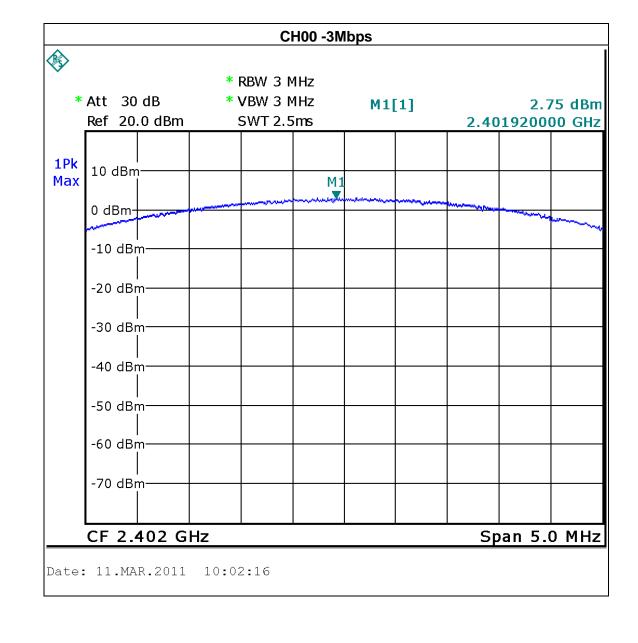
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	4.12	21	0.125
CH39	2441	5.02	21	0.125
CH78	2480	5.51	21	0.125

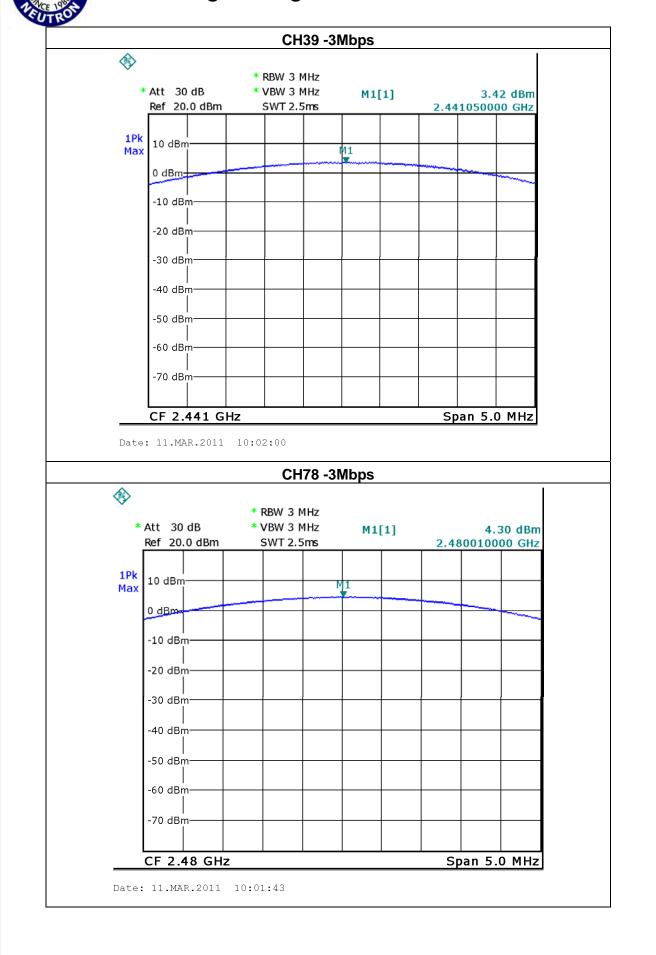




EUT:	ElitePad S10	Model Name :	S100T1
Temperature :	<b>25</b> ℃	Relative Humidity :	51 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -3Mbps		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	2.75	21	0.125
CH39	2441	3.42	21	0.125
CH78	2480	4.30	21	0.125





#### **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

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

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

EUT	SPECTRUM
	ANALYZER

#### **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.

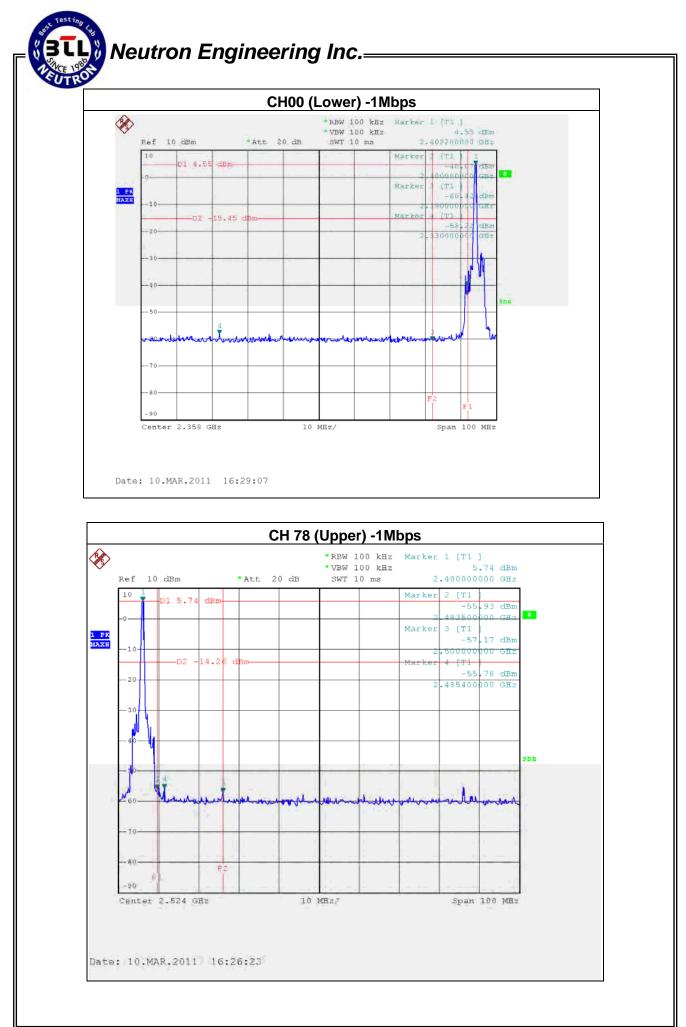


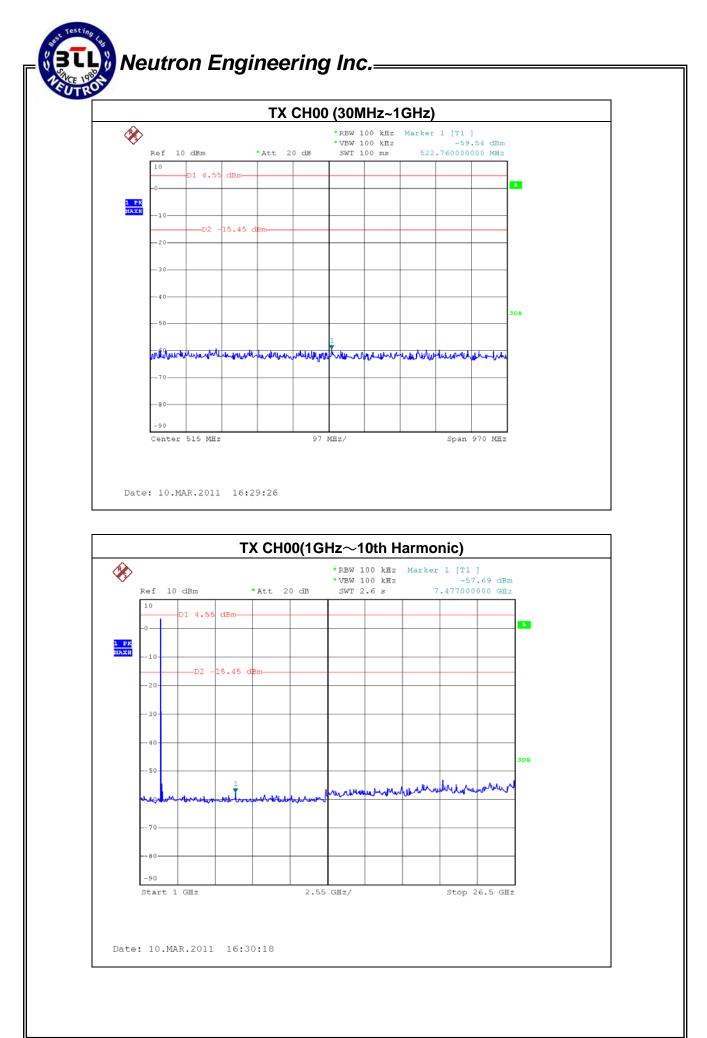
#### 10.1.6 TEST RESULTS

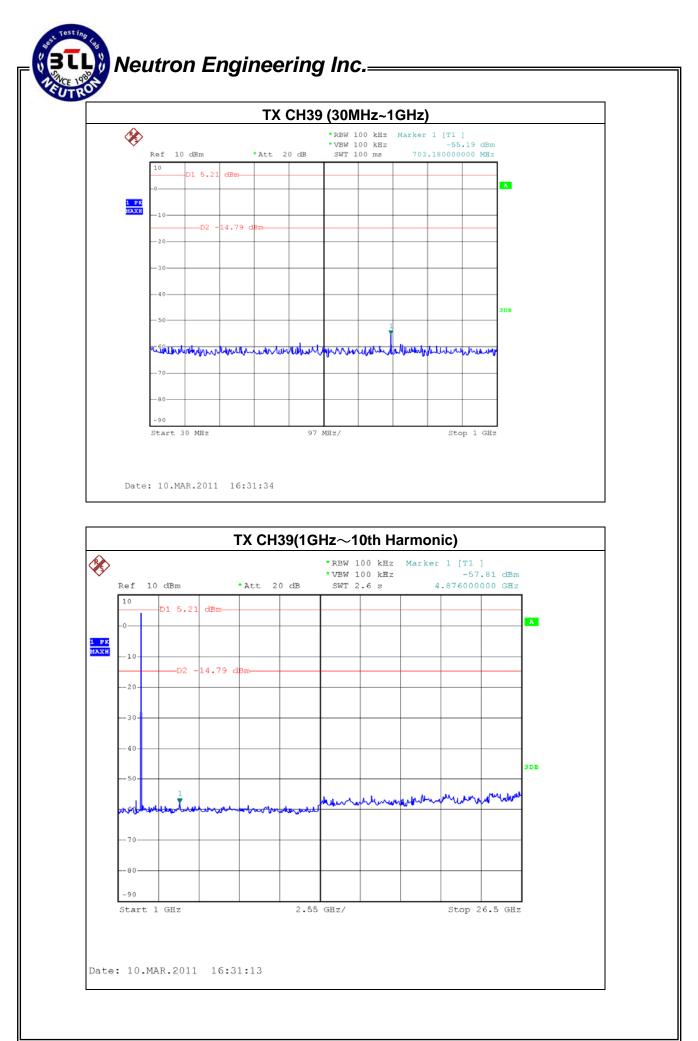
EUT:	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>25</b> ℃	Relative Humidity:	51 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 / CH78-1Mbps & Hopping on mode		

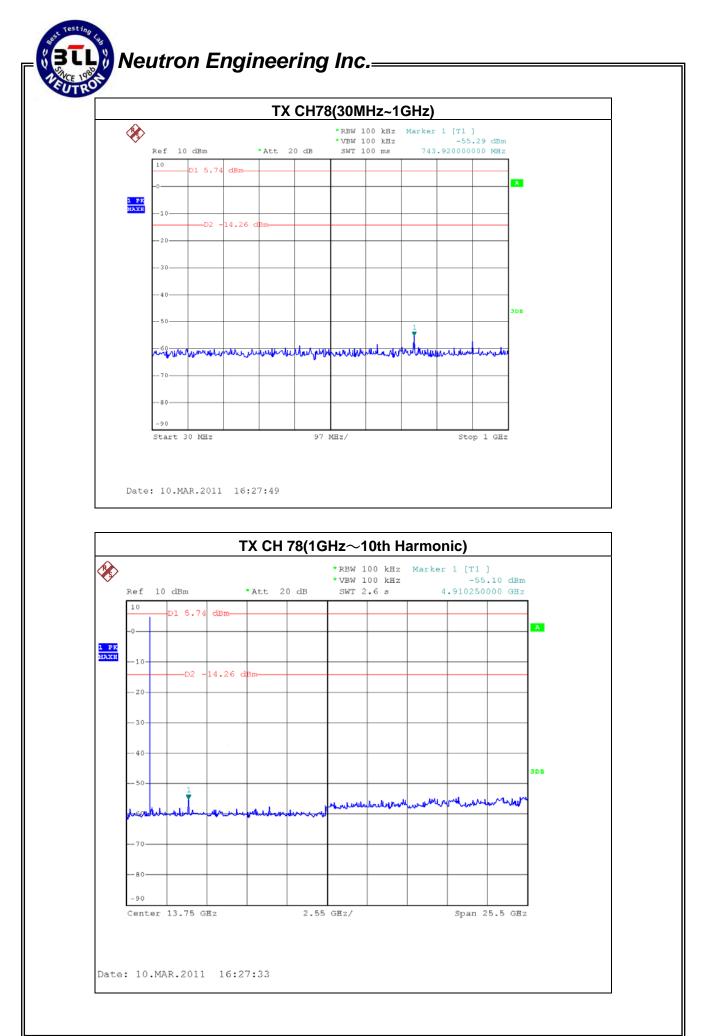
The max. radio frequend bandwidth outside f		The max. radio frequend bandwidth within th	cy power in any 100 kHz ne frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2330.00	-58.22	2485.40	-55.78	
Result				

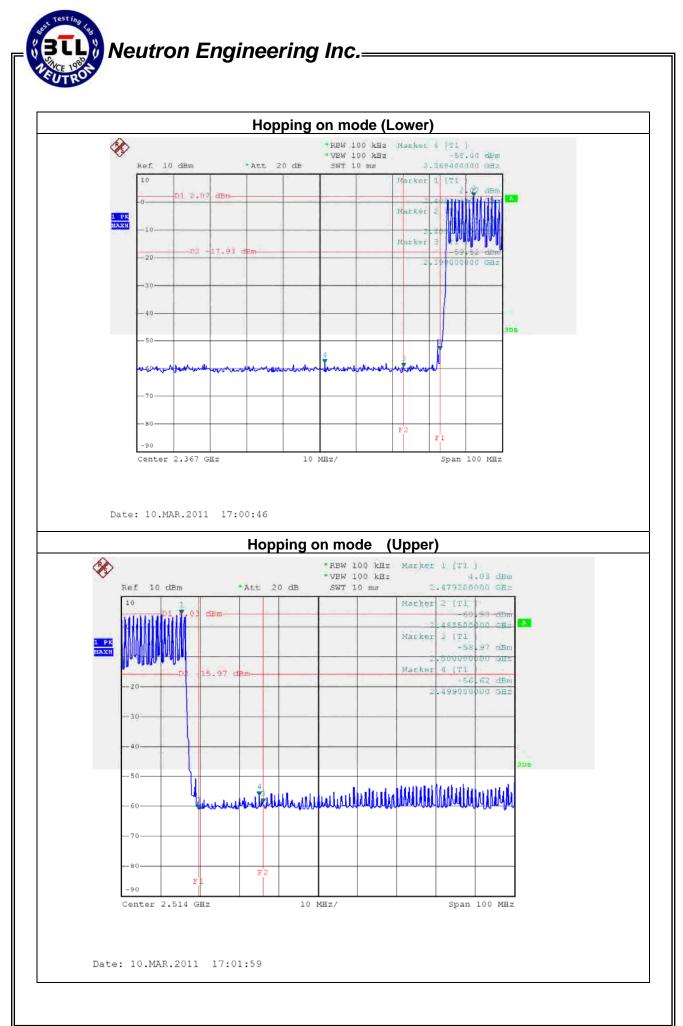
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.









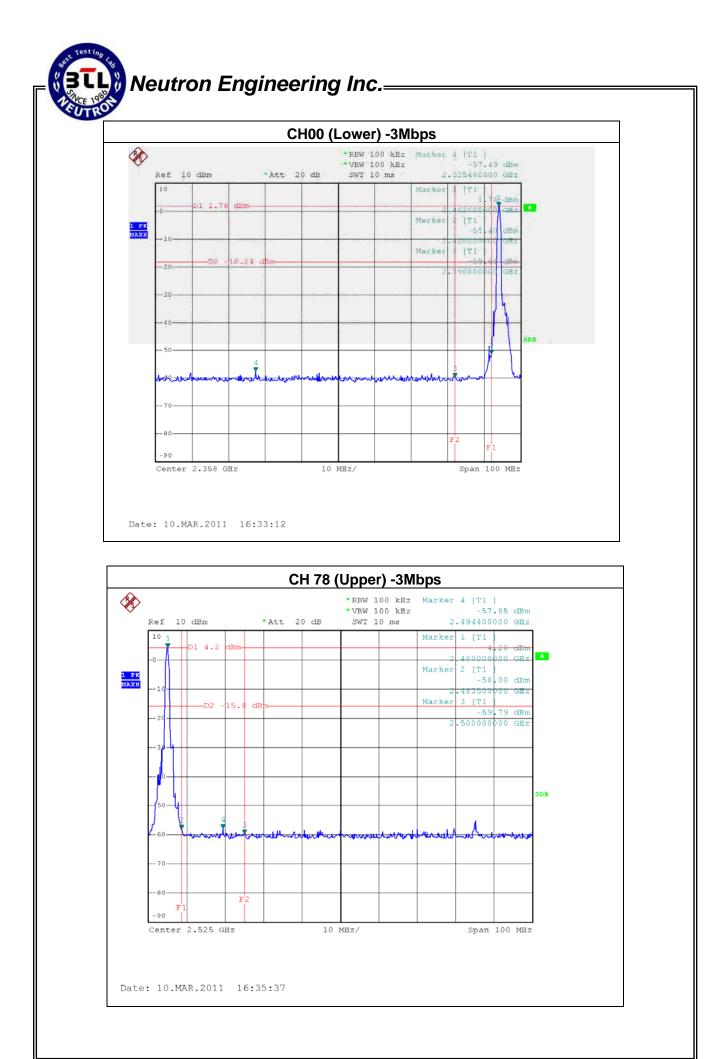


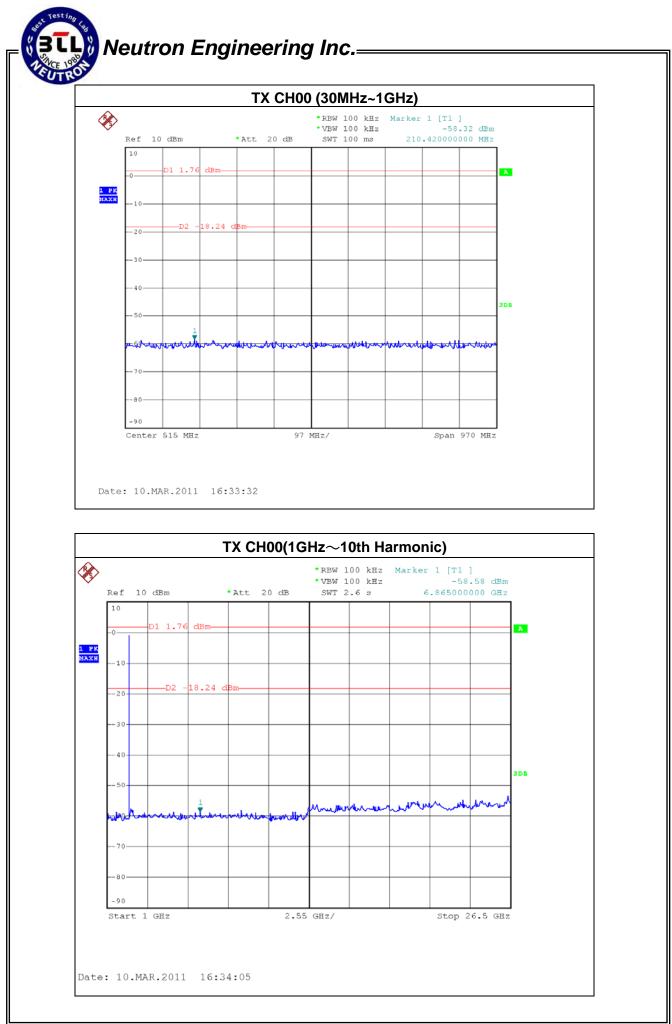


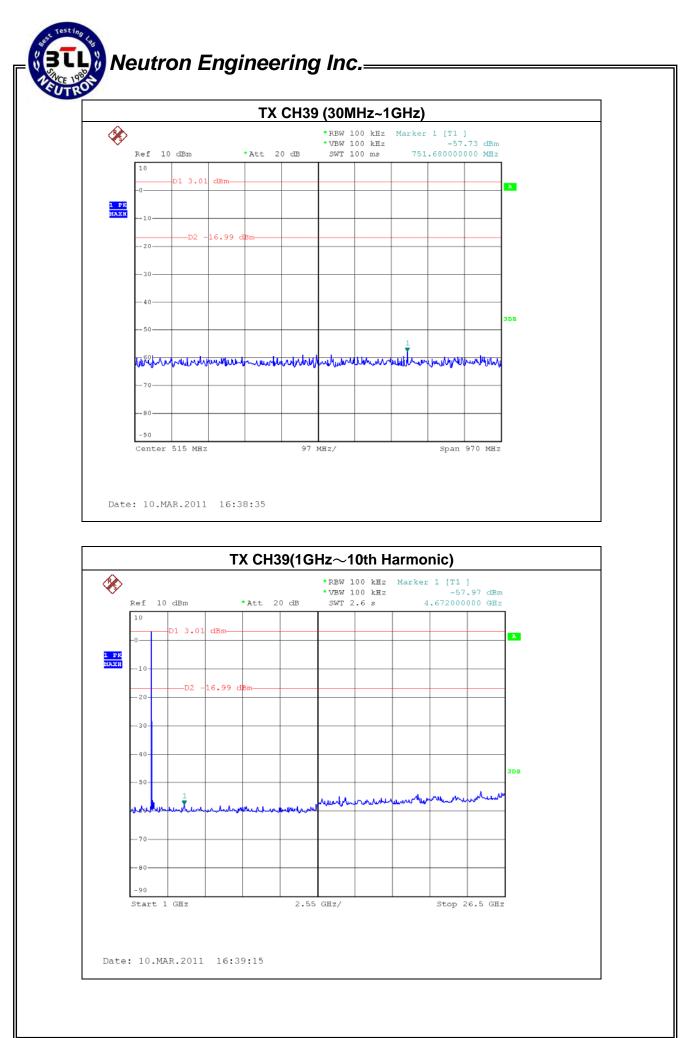
EUT:	ElitePad S10	Model Name :	S10OT1
Temperature :	<b>25</b> ℃	Relative Humidity :	51 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00 / CH39 / CH78-3Mbps & Hopping on mode		

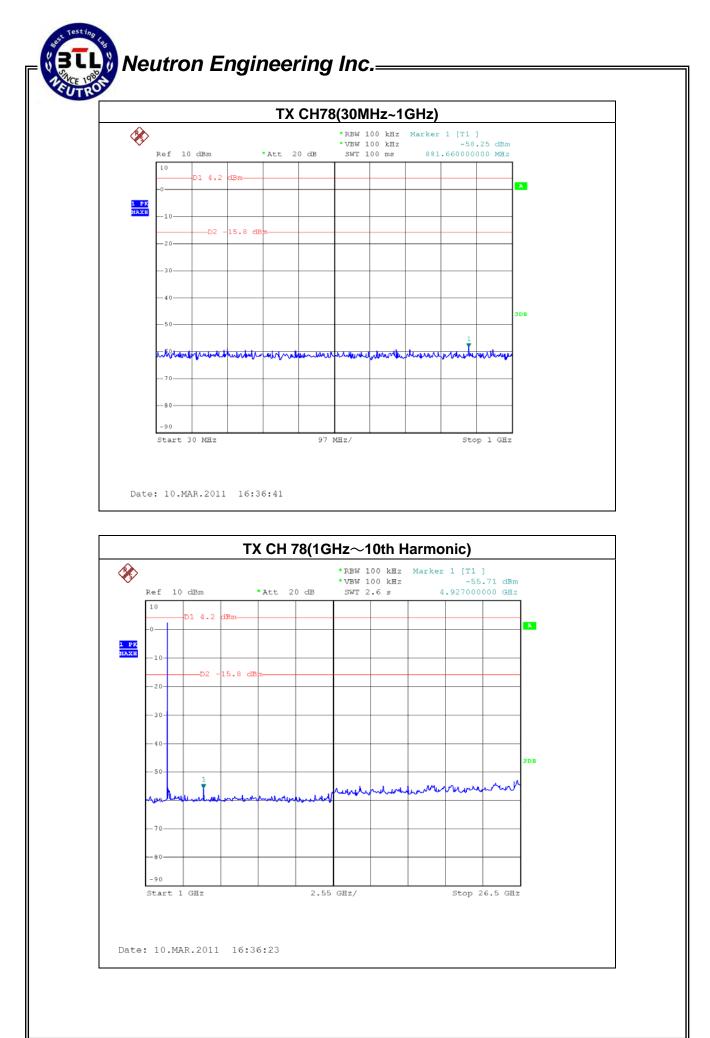
The max. radio frequent bandwidth outside	<b>J</b>	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.			
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2335.40	-57.49	2494.40	-57.85		
Result					

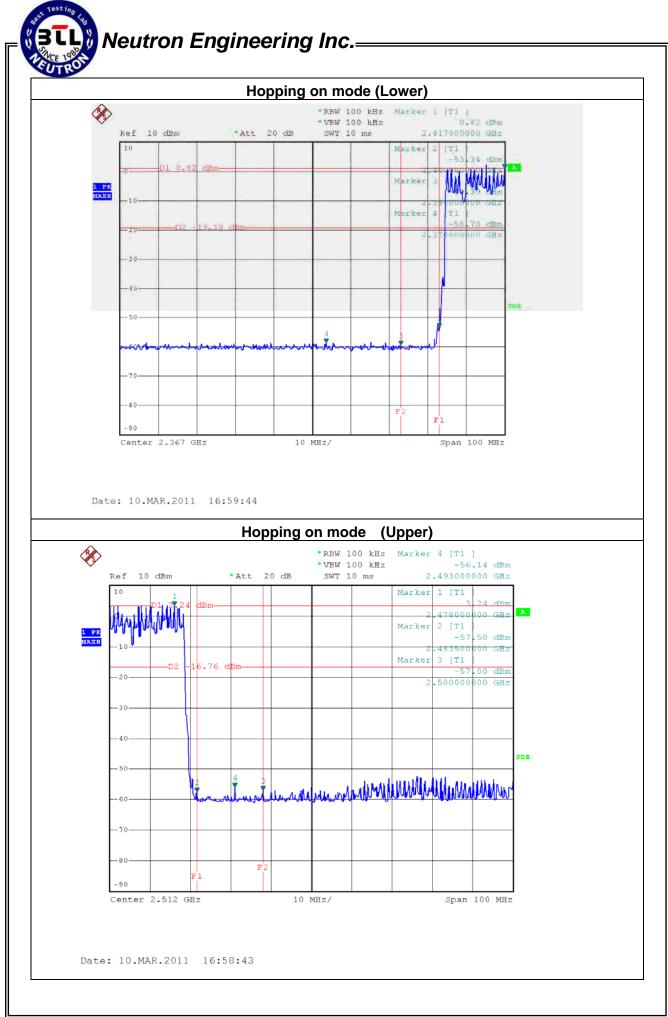
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.













#### **11. RF EXPOSURE TEST**

#### GENERAL CONCULUSION:

No evaluation required if power is below this threshold:

F(GHz)		P(mW)
Low	2.402	24.58
High	2.480	24.00

Maximum measured transmitter power:

Peak Output Power (dBm)		Prak Output Power (mW)	
Conducted Power	5.51	3.5563	

#### Note: Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	ECS	WB704L	Printed	N/A	0.08

Threshold for no SAR evaluation is 24.58mW.

Transmitter power is 3.5563 mW.

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold



### **12. EUT TEST PHOTO**

#### Conducted Measurement Photos WIFI Link Mode





