

FCC & IC Radio Test Report

FCC ID: SQK-FTP628WSL220A IC: 337L-FTP628W220A

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

Issued Date : Feb. 19, 2014
Project No. : 1312156
Equipment : Mobile Printer
Model Name : FTP-628WSL220

Applicant : FUJITSU COMPONENT LIMITED **Address** : 1174, Oaza Suzaka, Suzaka-shi,

Nagano 382-0076 Japan

Tested by: Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Dec. 25, 2013

Date of Test: Dec. 25, 2013 ~ Feb. 13, 2014

Testing Engineer:

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Authorized Signatory:

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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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REPORT ISSUED HISTORY

Revised Version No.	Description	Issued Date
NEI-FCCP-1-1312156	Original Issue.	Feb. 19, 2014

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1 CERTIFICATION

Equipment: Mobile Printer

Brand Name: FUJITSU COMPONENT LIMITED

Model Name: FTP-628WSL220

Applicant: FUJITSU COMPONENT LIMITED Date of Test: Dec. 25, 2013 ~ Feb. 13, 2014

Standards: RSS-210, Issue 8, 2010

FCC Part 15, Subpart C: 2012

ANSI C63.4: 2009

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1312156) 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).

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2.SUMMARY OF TEST RESULTS

RSS-210, Issue 8, 2010; FCC Part 15, Subpart C: 2012				
Standard Clause				
RSS-210	FCC Part 15, Subpart C	Test Item	Result	
NOTE (2)	15.207	Conducted Emission	PASS	
A8.5	15.247 (c)	Antenna conducted Spurious Emission	PASS	
A8.1 (b)	15.247 (a)(1)	Hopping Channel Separation	PASS	
A8.4 (2)	15.247 (b)	Maximum Peak Conducted Output Power	PASS	
NOTE (3)	15.247 (c)	Radiated Spurious Emission	PASS	
A8.1 (d)	15.247 (b)(1)	Number of Hopping Frequency	PASS	
A8.1 (d)	15.247 (a)(1)	Average time of occupancy	PASS	
NOTE (4)	15.205	Restricted Bands	PASS	
NOTE (5)	15.203	Antenna Requirement	PASS	

NOTE:

- 1. N/A: denotes test is not applicable in this Test Report
- 2. Reference standerads is RSS-GEN 7.2.4
- 3. Reference standerads is RSS-GEN 7.2.5
- 4. Reference standerads is RSS-GEN 7.2.2
- 5. Reference standerads is RSS-GEN 7.1.2

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C02: (VCCI RN: C-3477; FCC RN: 614388; FCC DN: TW1054)

1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

Radiated emission Test (Below 1 GHz):

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)

1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB08: (VCCI RN: G-91; FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)

1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty is not specified by Industry Canada rules and for reference only.

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

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

A. Conducted emission test:

Test Site	Measurement Frequency Range	U,(dB)	NOTE
C02	150 kHz ~ 30 MHz	2.59	

B. Radiated emission test:

Test Site	Item	Measurement	Measurement Frequency Range		NOTE						
			30 - 200MHz	3.35 dB							
		Horizontal	200 - 1000MHz	3.11 dB							
	Dadiated	Polarization	1 - 18GHz	3.97 dB							
CB08	emission at 3m		emission at	emission at	emission at	emission at			18 - 40GHz	4.01 dB	
CBUO								30 - 200MHz	3.22 dB		
							Vertical 200 - 10	200 - 1000MHz	3.24 dB		
					1 - 18GHz	4.05 dB					
			18 - 40GHz	4.04 dB							

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) - 150 kHz - 30 MHz : 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

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3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Printer			
Brand Name	FUJITSU COMPONENT LIMITED			
Model Name	FTP-628WSL220			
OEM Brand/Model Name	N/A			
Model Difference	N/A			
	The EUT is a Mobile Printer	:		
	Operation Frequency	2402 MHz ~ 2480 MHz		
	Modulation Type	FHSS(GFSK, π/4-DQPSK, 8-DPSK)		
	Bit Rate of Transmitter	1/2/3 Mbps		
	Number Of Channel	Please refer to the Note 2.		
Product Description	Antenna Designation	Please refer to the Note 3.		
	Antenna Gain(Peak)	Please refer to the Note 3.		
	Maximum Peak Conducted	1 Mbps: 0.55 dBm (0.0011 W)		
	Output Power	3 Mbps: 0.53 dBm (0.0011 W)		
	More details of EUT technical specification, please refer to the User's Manual.			
Power Source 1. DC Voltage supplied from External Power Supply.		n External Power Supply.		
	2. Battery supplied.			
Power Rating	1. I/P: AC 100-240V 0.36A-0.2A 50/60Hz / O/P: DC 5V 3A			
	2. 3.7V 1850 mAh 6.9Wh			
Connecting I/O Port(s)	Please refer to the User's M	lanual		
	1 * Bluetooth Module: FUJITSU, MBH7BTZ50			
Products Covered	1 * Li-ion BATTERY: NA02001-L033RS			
110000000000000000000000000000000000000	1 * AC ADAPTER: NaganoJRC, SQ15W5P-04			
1 * USB Cable attached a clamp core.				
EUT Modification(s)	N/A			

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NOTE:

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

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)
1	N/A	N/A	mono-pole (Printed)	N/A	1.30

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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.

Test Items	Mode	Data Rate	Tested Channel/Mode	
Conducted Emission	FHSS(GFSK)	1 Mbps	2441 MHz	
Antenna conducted Spurious Emission	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz, 2441 MHz, 2480 MHz	
Hopping Channel Separation	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz, 2441 MHz, 2480 MHz	
Maximum Peak Conducted Output Power	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz, 2441 MHz, 2480 MHz	
Radiated Spurious Emission (30 MHz to 1 GHz)	FHSS(GFSK)	1 Mbps	2441 MHz	
Radiated Spurious Emission (above 1 GHz)	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz, 2441 MHz, 2480 MHz	
Number of Hopping Frequency	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz - 2480 MHz	
Average time of occupancy	FHSS(GFSK)	1 Mbps 3 Mbps	2402 MHz, 2441 MHz, 2480 MHz	
Restricted Bands	FHSS(GFSK)	1 Mbps 3 Mbps	-2402 MHz, 2480 MHz	
Antenna Requirement	FHSS(GFSK)			

NOTE: The measurements are performed at the highest, middle, lowest available channels.

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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.

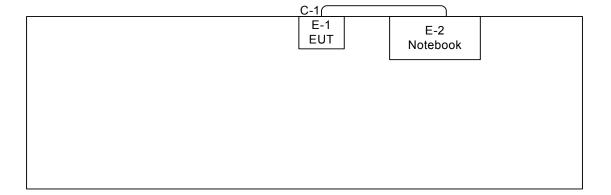
Data Rate	1 Mbps				
Test software Version	BTCLI				
Frequency	2402 MHz	2441 MHz	2480 MHz		
Parameter	Def.	Def.	Def.		

Data Rate	3 Mbps				
Test software Version	BTCLI				
Frequency	2402 MHz 2441 MHz 2480 MHz				
Parameter	Def. Def. Def.				

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



C-1 USB Cable

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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
E-1	Mobile Printer	FUJITSU COMPONENT LIMITED	FTP-628WSL220	FCC ID: SQK-FTP628WSL220A IC: 337L-FTP628W220A	N/A	EUT
E-2	Notebook	HP	HSTNN-105C	DOC	CNU6341WT7	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	YES	0.9m	

NOTE: The support equipment was authorized by Declaration of Conformity (DOC).

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4 CONDUCTED EMISSION

4.1 LIMIT

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

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 test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value Limit Value

4.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	Schwarzbeck	NSLK 8127	8127685	Feb. 24, 2014
2	Test Cable	TIMES	CFD300-NL	C01	Jun. 16, 2014
3	EMI Test Receiver	Agilent	N9038A	MY51210215	Mar. 21, 2014
4	Measurement Software	EZ	EZ_EMC (Version NB-02A)	N/A	N/A

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

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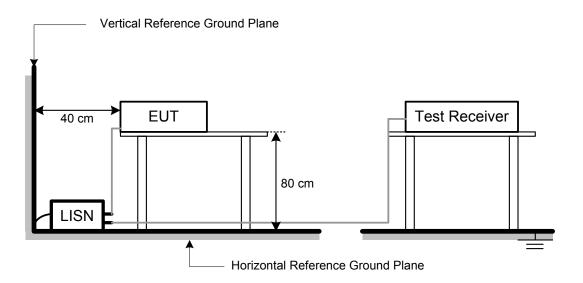
4.3 TEST PROCEDURES

- 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.

NOTE:

- a. Reading in which marked as Peak, QP or AVG means measurements by using are Quasi-Peak or Average Mode with Detector BW=9 kHz (6 dB Bandwidth).
- b. All readings are Peak Mode value unless otherwise stated QP or AVG in column of Note. If the Peak or 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 Peak or QP Mode was measured, but AVG Mode didn't perform.

4.4 TEST SETUP LAYOUT



4.5 DEVIATION FROM TEST STANDARD

No deviation

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4.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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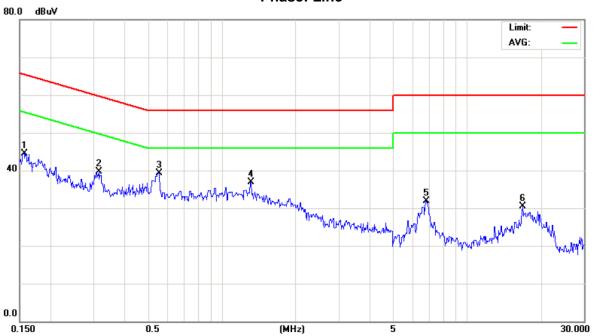


FCC ID: SQK-FTP628WSL220A / I Neutron Engineering Inc._____

4.7 TEST RESULTS

EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2441 MHz		





Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
	0.1562	35.81	8.78	44.59	65.66	-21.07	peak	
	0.3143	31.82	7.82	39.64	59.85	-20.21	peak	
*	0.5540	30.59	8.65	39.24	56.00	-16.76	peak	
	1.3099	27.37	9.57	36.94	56.00	-19.06	peak	
	6.8000	22.45	9.46	31.91	60.00	-28.09	peak	
	16.8000	21.03	9.54	30.57	60.00	-29.43	peak	
		MHz 0.1562 0.3143 * 0.5540 1.3099 6.8000	Mk. Freq. Level MHz dBuV 0.1562 35.81 0.3143 31.82 * 0.5540 30.59 1.3099 27.37 6.8000 22.45	Mk. Freq. Level Factor MHz dBuV dB 0.1562 35.81 8.78 0.3143 31.82 7.82 * 0.5540 30.59 8.65 1.3099 27.37 9.57 6.8000 22.45 9.46	Mk. Freq. Level Factor ment MHz dBuV dB dBuV 0.1562 35.81 8.78 44.59 0.3143 31.82 7.82 39.64 * 0.5540 30.59 8.65 39.24 1.3099 27.37 9.57 36.94 6.8000 22.45 9.46 31.91	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV dBuV 0.1562 35.81 8.78 44.59 65.66 0.3143 31.82 7.82 39.64 59.85 * 0.5540 30.59 8.65 39.24 56.00 1.3099 27.37 9.57 36.94 56.00 6.8000 22.45 9.46 31.91 60.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV dBuV dB 0.1562 35.81 8.78 44.59 65.66 -21.07 0.3143 31.82 7.82 39.64 59.85 -20.21 * 0.5540 30.59 8.65 39.24 56.00 -16.76 1.3099 27.37 9.57 36.94 56.00 -19.06 6.8000 22.45 9.46 31.91 60.00 -28.09	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV dBuV dB Detector 0.1562 35.81 8.78 44.59 65.66 -21.07 peak 0.3143 31.82 7.82 39.64 59.85 -20.21 peak * 0.5540 30.59 8.65 39.24 56.00 -16.76 peak 1.3099 27.37 9.57 36.94 56.00 -19.06 peak 6.8000 22.45 9.46 31.91 60.00 -28.09 peak

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30.000

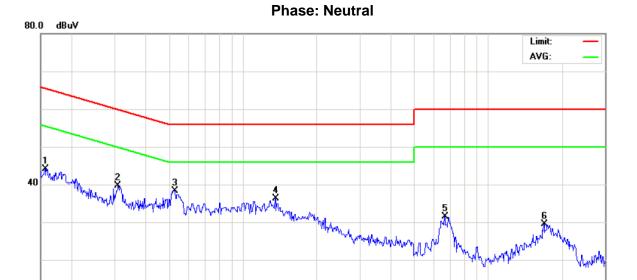


0.0

0.150

0.5

EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2441 MHz		



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	0.1562	35.27	8.91	44.18	65.66	-21.48	peak		
2	0.3095	31.85	7.82	39.67	59.98	-20.31	peak		
3 *	0.5270	29.71	8.58	38.29	56.00	-17.71	peak		
4	1.3550	26.80	9.56	36.36	56.00	-19.64	peak		
5	6.6500	21.99	9.46	31.45	60.00	-28.55	peak		
6	16.8500	19.95	9.54	29.49	60.00	-30.51	peak		

(MHz)

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5 ANTENNA CONDUCTED SPURIOUS EMISSION

5.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Antenna conducted Spurious Emission	1 30-25000	20 dB less than the peak value of fundamental frequency

5.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

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

5.3 TEST PROCEDURES

- 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.

5.4 TEST SETUP LAYOUT

EUT	SPECTRUM
	ANALYZER

5.5 DEVIATION FROM TEST STANDARD

No deviation

5.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.6** Unless otherwise a special operating condition is specified in the follows during the testing.

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FCC ID: SQK-FTP628WSL220A / IC: 337L-F Neutron Engineering Inc.

5.7 TEST RESULTS

EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	26°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps		

Channel of Worst Data					
The max. radio frequency power in any 100kHz bandwidth outside the frequency band The max. radio frequency power in any 100 kH bandwidth within the frequency band.					
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)		
2399.75 -36.88 2484.50 -4					

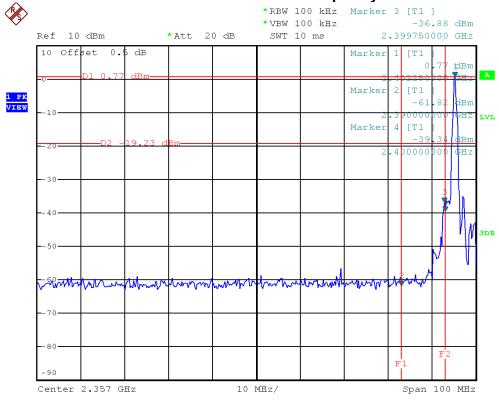
Result

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.

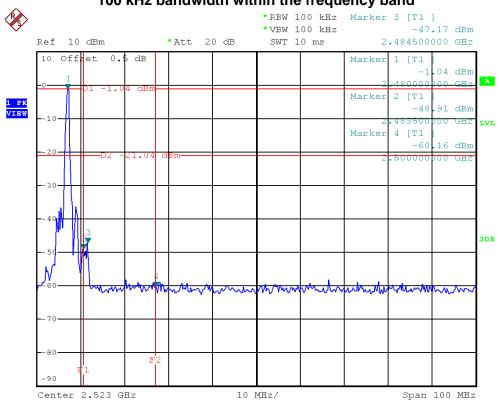
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Bluetooth/1 Mbps/The max. radio frequency power in any 100kHz bandwidth outside the frequency band

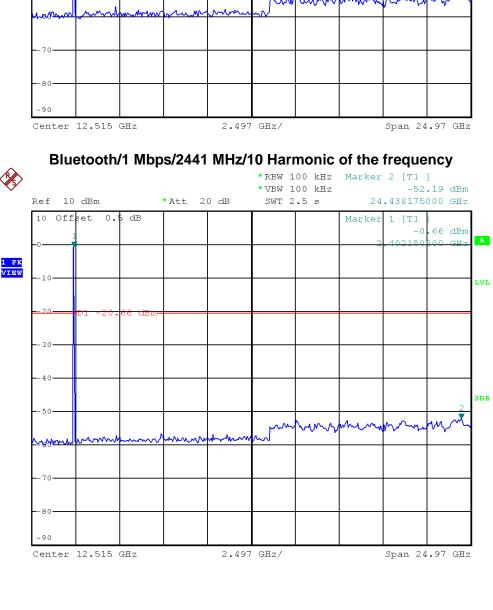


Bluetooth/1 Mbps/The max. radio frequency power in any 100 kHz bandwidth within the frequency band

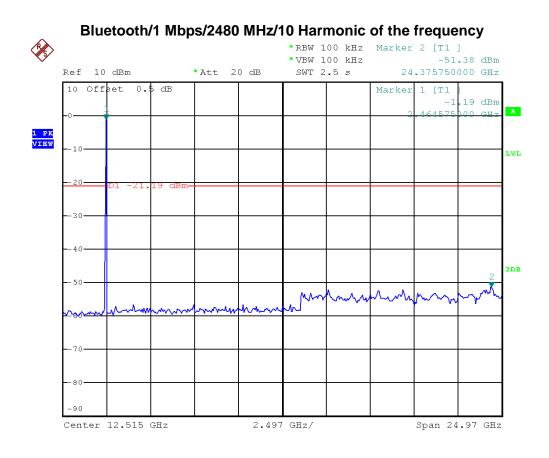


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EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	26°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/3 Mbps		

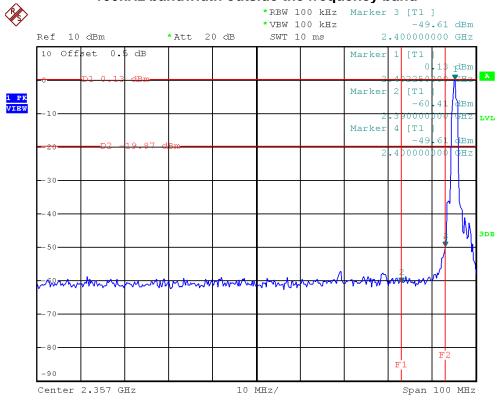
Channel of Worst Data					
The max. radio frequency power in any 100kHz bandwidth outside the frequency band bandwidth within the frequency band.					
FREQUENCY(MHz) POWER(dBm)		FREQUENCY(MHz)	POWER(dBm)		
2400.00	-46.99				

Result

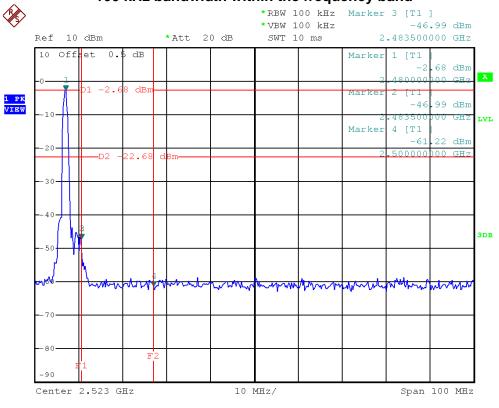
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

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Bluetooth/3 Mbps/The max. radio frequency power in any 100kHz bandwidth outside the frequency band



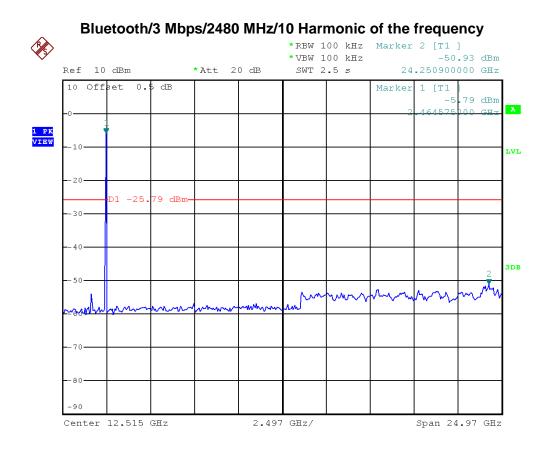
Bluetooth/3 Mbps/The max. radio frequency power in any 100 kHz bandwidth within the frequency band



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Neutron Engineering Inc._____

6 HOPPING CHANNEL SEPARATION

6.1 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.

6.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

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

6.3 MEASURING INSTRUMENTS SETTING

Spectrum Analyzer	Parameter Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.4 TEST PROCEDURES

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 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 300 kHz were utilised for channel separation measurement.

6.5 TEST SETUP LAYOUT

EUT	SPECTRUM
	ANALYZER

6.6 DEVIATION FROM TEST STANDARD

No deviation

6.7 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.6** Unless otherwise a special operating condition is specified in the follows during the testing.

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FCC ID: SQK-FTP628WSL220A / IC: 337L-FTP628W220A Neutron Engineering Inc.

6.8 TEST RESULTS

EUT	Mobile Printer	Model Name	FTP-628WSL220	
Temperature	26°C	Relative Humidity	46%	
Test Voltage	AC 120V/60Hz			
Test Mode	Bluetooth/1 Mbps/2402 MHz, 2441 MHz, 2480 MHz			

Frequency	Channel Separation (MHz)	20 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Two-thirds of the 20 dB Bandwidth	Result
2402 MHz	1.01	0.933	0.875	0.62	PASS
2441 MHz	1.01	0.938	0.875	0.63	PASS
2480 MHz	1.00	0.938	0.875	0.63	PASS

NOTE: Ch. Separation Limits: >25 KHz or >2/3 of 20dB bandwidth

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200 kHz/

Span 2 MHz

Center 2.402 GHz

Neutron Engineering Inc._____ Bluetooth/1 Mbps/2441 MHz/Channel Separation *RBW 30 kHz Delta 1 [T2] *VBW 100 kHz -0.06 dB *SWT 20 ms 1.005000000 MHz Ref 10 dBm *Att 20 dB 10 Offset 0.5 dB Marker 1 [T1 97 dBm 1 PK VIEW LVL 2 PK Center 2.4415 GHz 300 kHz/ Span 3 MHz Bluetooth/1 Mbps/2441 MHz/20dB Bandwidth *RBW 30 kHz Delta 1 [T1] -0.46 dB *VBW 300 kHz *Att 20 dB SWT 2.5 ms 937.655860310 kHz 10 Offset 0.5 dB OBW875.000000000 kHz Marker 1 [T1 440528<mark>578 GHz</mark> 1 PK VIEW [T1 OBW] 440545000 GHz -20441420000 GHz 3DB

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200 kHz/

Span 2 MHz

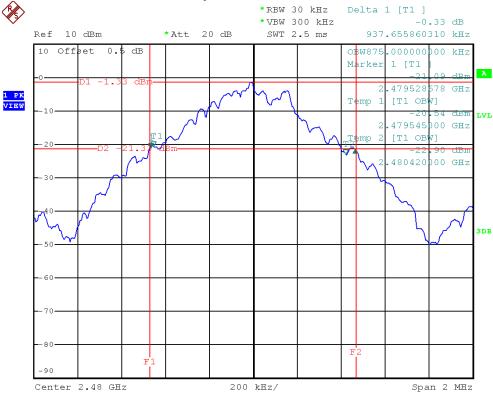
Center 2.441 GHz

-0.03 dB

84 dBm

LVL

3DB Center 2.4795 GHz 300 kHz/ Bluetooth/1 Mbps/2480 MHz/20dB Bandwidth



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EUT	Mobile Printer	Model Name	FTP-628WSL220	
Temperature	26°C	Relative Humidity	46%	
Test Voltage	AC 120V/60Hz			
Test Mode	Bluetooth/3 Mbps/2402 MHz, 2441 MHz, 2480 MHz			

Frequency	Channel Separation (MHz)	20 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Two-thirds of the 20 dB Bandwidth	Result
2402 MHz	1.00	1.267	1.180	0.84	PASS
2441 MHz	1.00	1.262	1.170	0.84	PASS
2480 MHz	0.85	1.262	1.160	0.84	PASS

NOTE: Ch. Separation Limits: >25 KHz or >2/3 of 20dB bandwidth

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Neutron Engineering Inc._____ Bluetooth/3 Mbps/2402 MHz/Channel Separation *RBW 30 kHz Delta 1 [T2] 0.04 dB *VBW 100 kHz *SWT 20 ms 997.500000000 kHz Ref 10 dBm *Att 20 dB 10 Offset 0.5 dB Marker 1 [T1 75 dBm 1 PK VIEW LVL 2 PK 300 kHz/ Bluetooth/3 Mbps/2402 MHz/20dB Bandwidth *RBW 30 kHz Delta 1 [T1] 0.38 dB *VBW 300 kHz *Att 20 dB SWT 2.5 ms 1.266832918 MHz OBW 1.180000000 MHz 10 Offset 0.5 dB Marker 1 [T1 2.401334 .65 GHz 1 PK VIEW Temp 1 [T1 OBW] <u>T</u>2.401380000 GHz [T1 OBW] 02560000 GHz 3DB

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200 kHz/

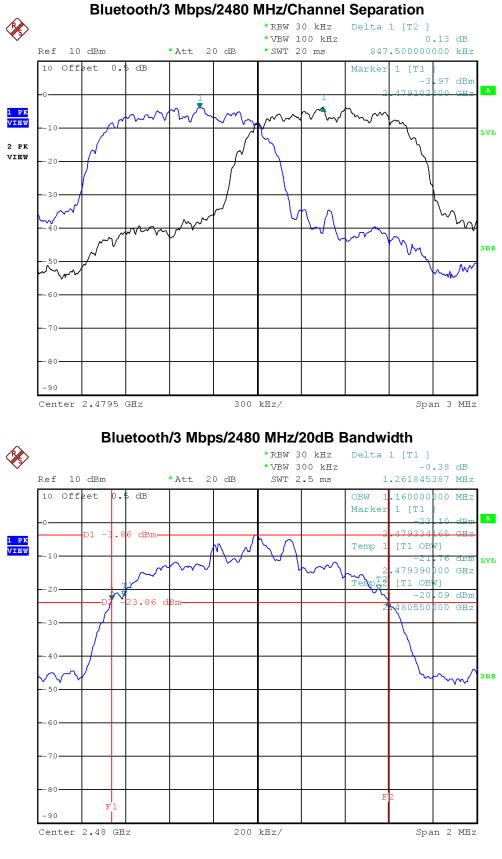
Span 2 MHz

Center 2.402 GHz

200 kHz/

Span 2 MHz

Center 2.441 GHz



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Neutron Engineering Inc._____

7 MAXIMUM PEAK CONDUCTED OUTPUT POWER

7.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Maximum Peak Conducted Output Power	2400-2483.5	1 watt or 30 dBm

7.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

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

7.3 TEST PROCEDURES

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

7.4 TEST SETUP LAYOUT

EUT	SPECTRUM
	ANALYZER

7.5 DEVIATION FROM TEST STANDARD

No deviation

7.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.6** Unless otherwise a special operating condition is specified in the follows during the testing..

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7.7 TEST RESULTS

EUT	Mobile Printer	Model Name	FTP-628WSL220			
Temperature	26°C	Relative Humidity	46%			
Test Voltage	AC 120V/60Hz					
Test Mode	Bluetooth/1 Mbps/2402 MHz, 2441 MHz, 2480 MHz					

Fraguenay	Peak Output Power		Limit		Dogult
Frequency	(dBm)	(W)	(dBm)	(W)	Result
2402 MHz	0.55	0.0011	30	1	PASS
2441 MHz	0.44	0.0011	30	1	PASS
2480 MHz	-1.43	0.0007	30	1	PASS

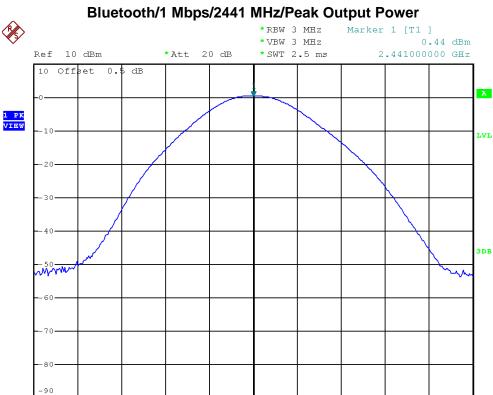
Bluetooth/1 Mbps/2402 MHz/Peak Output Power



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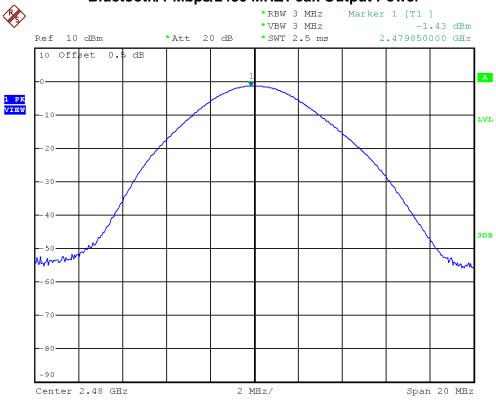
Span 20 MHz

Center 2.441 GHz





2 MHz/



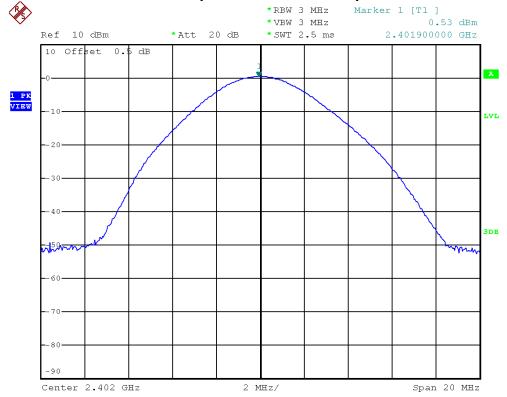
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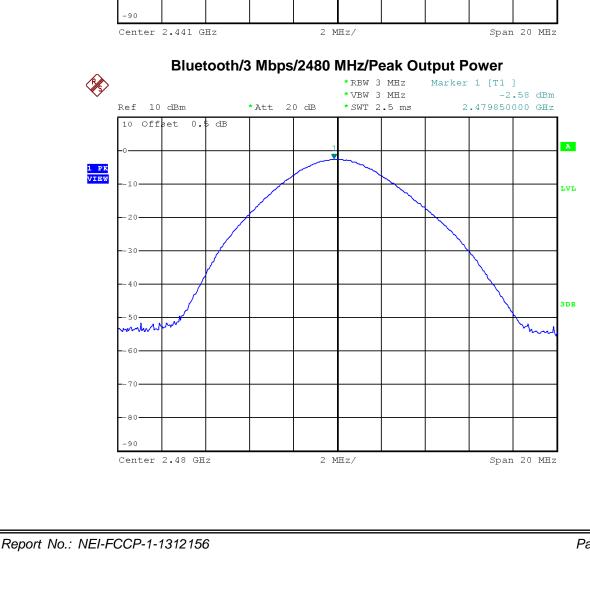
EUT	Mobile Printer	Model Name	FTP-628WSL220			
Temperature	26°C	Relative Humidity	46%			
Test Voltage	AC 120V/60Hz					
Test Mode	Bluetooth/3 Mbps/2402 MHz, 2441 MHz, 2480 MHz					

Глосиопои	Peak Output Power		Limit		Dogult
Frequency	(dBm)	(W)	(dBm)	(W)	Result
2402 MHz	0.53	0.0011	30	1	PASS
2441 MHz	-0.74	0.0008	30	1	PASS
2480 MHz	-2.58	0.0006	30	1	PASS

Bluetooth/3 Mbps/2402 MHz/Peak Output Power



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8 RADIATED SPURIOUS EMISSION (9 KHZ TO 1 GHZ)

8.1 LIMIT

20 dB 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.

Frequency Range: 9 kHz to 1 GHz					
FREQUENCY (MHz)					
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			

Frequency Range: above 1 GHz					
FREQUENCY	Class A (dBu	V/m) (at 3m)	Class B (dBuV/m) (at 3m)		
(MHz)	PEAK	AVERAGE	PEAK	AVERAGE	
above 1 GHz	above 1 GHz 80 60 74 54				

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.(3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

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8.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 15, 2014
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 16, 2014
4	Microflex Cable	Harbour industries	27478LL142	1m	May. 13, 2014
5	Microflex Cable	EMC	S104-SMA	8m	May. 13, 2014
6	Microflex Cable	Harbour industries	27478LL142	3m	May. 13, 2014
7	Test Cable	LMR	LMR-400	12m	May. 14, 2014
8	Test Cable	LMR	LMR-400	3m	May. 14, 2014
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 18, 2014
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 11, 2014
11	Preamplifier With Adaptor	EMC	EMC2654045	980030	Feb. 18, 2014
12	Horn Antenna	Schwarzbeck	BBHA 9170	340	Nov. 14, 2014

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

8.3 MEASURING INSTRUMENTS SETTING

EMI Test 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

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8.4 TEST PROCEDURES

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m 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.
- g. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

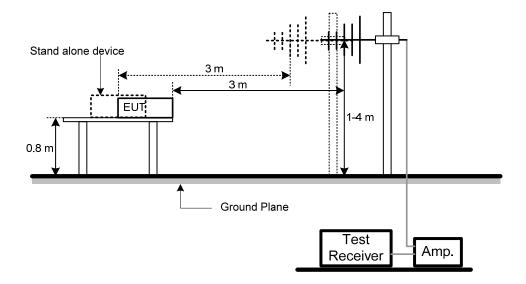
NOTE:

- a. Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode with Detector BW=120 kHz; SPA setting in RBW=100 kHz, VBW =100 kHz, Swp. Time = 0.3 sec./ MHz.
- b. 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.

8.5 DEVIATION FROM TEST STANDARD

No deviation

8.6 TEST SETUP LAYOUT



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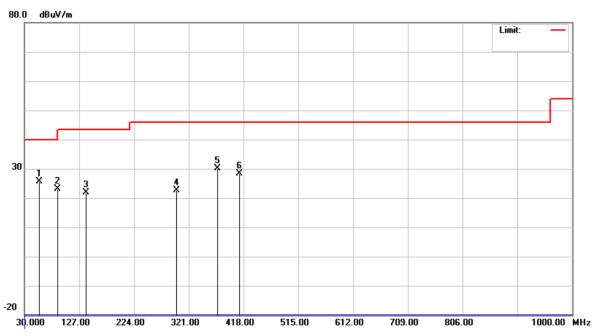


FCC ID: SQK-FTP628WSL220A / IC: 3 Neutron Engineering Inc._____

8.8 TEST RESULTS

EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	62%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2441 MHz		

Polarization: Vertical

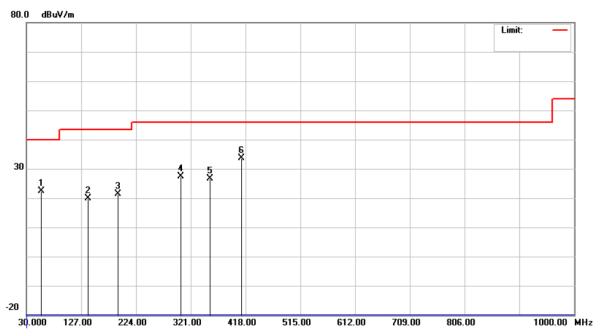


No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	56.6750	39.48	-13.94	25.54	40.00	-14.46	peak	
2		88.2000	43.26	-20.01	23.25	43.50	-20.25	peak	
3		139.1250	36.66	-14.75	21.91	43.50	-21.59	peak	
4		299.1750	36.70	-13.97	22.73	46.00	-23.27	peak	
5		371.9250	42.34	-12.09	30.25	46.00	-15.75	peak	
6		410.7250	39.26	-10.88	28.38	46.00	-17.62	peak	

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EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	62%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2441 MHz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		56.6750	36.41	-13.94	22.47	40.00	-17.53	peak	
2		139.1250	34.70	-14.75	19.95	43.50	-23.55	peak	
3		192.4750	38.23	-16.78	21.45	43.50	-22.05	peak	
4		304.0250	41.28	-13.78	27.50	46.00	-18.50	peak	
5		354.9500	38.97	-12.43	26.54	46.00	-19.46	peak	
6	*	410.7250	44.48	-10.88	33.60	46.00	-12.40	peak	

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Neutron Engineering Inc._____

9 RADIATED SPURIOUS EMISSION (ABOVE 1 GHZ)

9.1 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.

Frequency Range: 9 kHz to 1 GHz								
FREQUENCY (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						

Frequency Range: above 1 GHz								
FREQUENCY	Class A (dBu	V/m) (at 3m)	Class B (dBuV/m) (at 3m)					
(MHz)	PEAK	AVERAGE	PEAK	AVERAGE				
above 1 GHz	80	60	74	54				

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use) Margin Level = Measurement Value – Limit Value

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9.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 15, 2014
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 16, 2014
4	Microflex Cable	Harbour industries	27478LL142	1m	May. 13, 2014
5	Microflex Cable	EMC	S104-SMA	8m	May. 13, 2014
6	Microflex Cable	Harbour industries	27478LL142	3m	May. 13, 2014
7	Test Cable	LMR	LMR-400	12m	May. 14, 2014
8	Test Cable	LMR	LMR-400	3m	May. 14, 2014
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 18, 2014
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 11, 2014
11	Preamplifier With Adaptor	EMC	EMC2654045	980030	Feb. 18, 2014
12	Horn Antenna	Schwarzbeck	BBHA 9170	340	Nov. 14, 2014

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

9.3 MEASURING INSTRUMENTS SETTING

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

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9.4 TEST PROCEDURES

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m 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.
- g. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

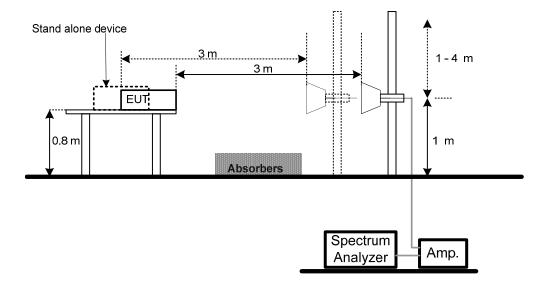
NOTE:

- a. Reading in which marked as Peak means measurements by using are Peak Mode with instrument setting in RBW= 1 MHz, VBW= 1 MHz, Swp. Time = Auto. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW= 1 MHz, VBW= 10 Hz, Swp. Time = Auto.
- b. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.

9.5 DEVIATION FROM TEST STANDARD

No deviation

9.6 TEST SETUP LAYOUT



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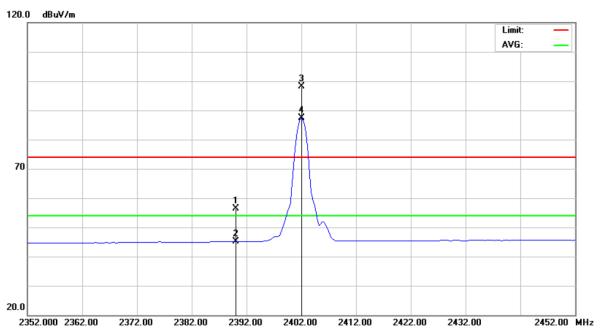


FCC ID: SQK-FTP628WSL220A / IC: 3 Neutron Engineering Inc._____

9.8 TEST RESULTS

EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	62%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2402 MHz		

Polarization: Vertical

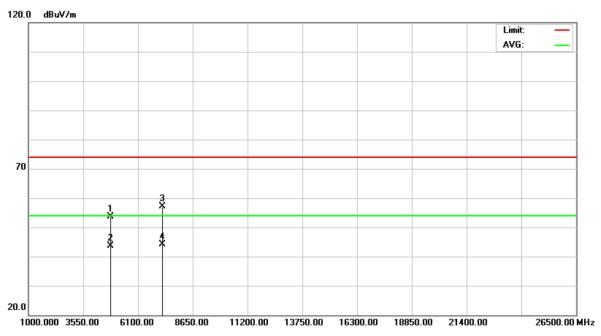


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.63	31.81	56.44	74.00	-17.56	peak	
2		2390.000	13.27	31.81	45.08	54.00	-8.92	AVG	
3	Χ	2402.000	66.31	31.86	98.17	74.00	24.17	peak	
4	*	2402.000	55.49	31.86	87.35	54.00	33.35	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	62%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2402 MHz		

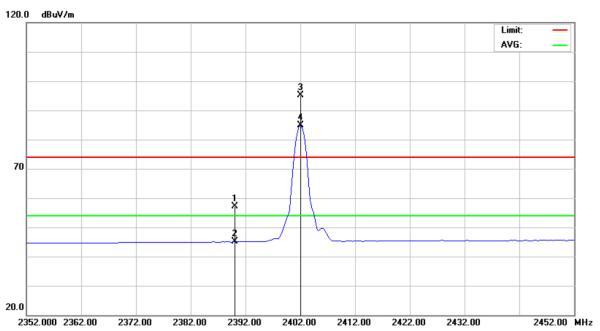


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4803.995	47.41	6.19	53.60	74.00	-20.40	peak	
2		4803.995	37.46	6.19	43.65	54.00	-10.35	AVG	
3		7205.750	44.77	12.38	57.15	74.00	-16.85	peak	
4	*	7205.750	31.77	12.38	44.15	54.00	-9.85	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	62%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2402 MHz		

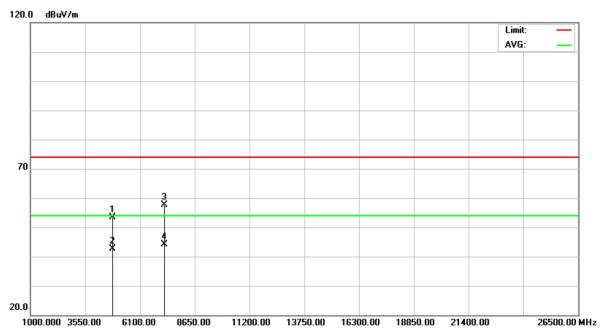


No.	Mk	ι. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	25.22	31.81	57.03	74.00	-16.97	peak	
2		2390.000	13.20	31.81	45.01	54.00	-8.99	AVG	
3	Χ	2402.000	63.20	31.86	95.06	74.00	21.06	peak	
4	*	2402.000	52.91	31.86	84.77	54.00	30.77	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	25°C	Relative Humidity	62%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/1 Mbps/2402 MHz							

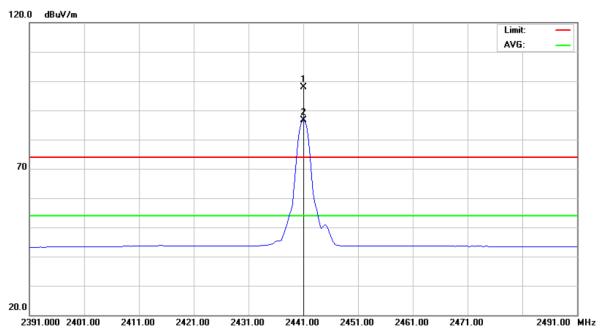


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4803.975	47.17	6.19	53.36	74.00	-20.64	peak	
2		4803.975	36.56	6.19	42.75	54.00	-11.25	AVG	
3		7206.385	45.14	12.38	57.52	74.00	-16.48	peak	
4	*	7206.385	31.69	12.38	44.07	54.00	-9.93	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220						
Temperature	25°C	Relative Humidity	62%						
Test Voltage	AC 120V/60Hz								
Test Mode	Bluetooth/1 Mbps/2441 MHz								

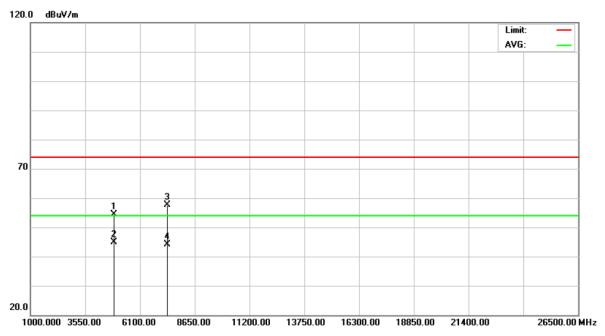


	No.	Mk	. Freq.	Reading Level		ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	Х	2441.000	65.78	32.02	97.80	74.00	23.80	peak	
_	2	*	2441.000	54.69	32.02	86.71	54.00	32.71	AVG	
_										

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EUT	Mobile Printer	Model Name	FTP-628WSL220						
Temperature	25°C	Relative Humidity	62%						
Test Voltage	AC 120V/60Hz								
Test Mode	Bluetooth/1 Mbps/2441 MHz								

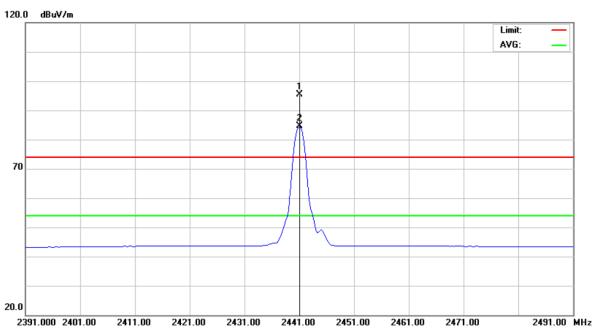


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4881.995	48.16	6.29	54.45	74.00	-19.55	peak	
2	*	4881.995	38.47	6.29	44.76	54.00	-9.24	AVG	
3		7323.640	44.89	12.81	57.70	74.00	-16.30	peak	
4		7323.640	31.26	12.81	44.07	54.00	-9.93	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	25°C	Relative Humidity	62%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/1 Mbps/2441 MHz							

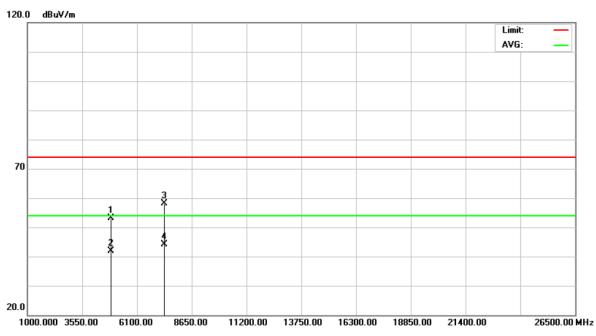


N	o. Mł	k. Freq.		Factor	ment	Limit	O∨er		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1 X	2441.000	63.37	32.02	95.39	74.00	21.39	peak	
	2 *	2441.000	52.52	32.02	84.54	54.00	30.54	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220						
Temperature	25°C	Relative Humidity	62%						
Test Voltage	AC 120V/60Hz								
Test Mode	Bluetooth/1 Mbps/2441 MHz								

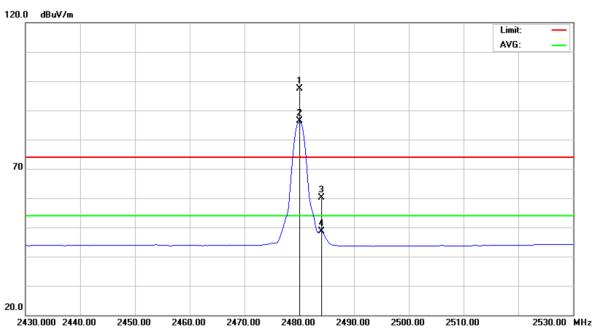


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
Ī			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		4882.010	46.94	6.29	53.23	74.00	-20.77	peak	
	2		4882.010	35.59	6.29	41.88	54.00	-12.12	AVG	
	3		7322.885	45.28	12.81	58.09	74.00	-15.91	peak	
	4	*	7322.885	31.32	12.81	44.13	54.00	-9.87	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	25°C	Relative Humidity	62%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/1 Mbps/2480 MHz							

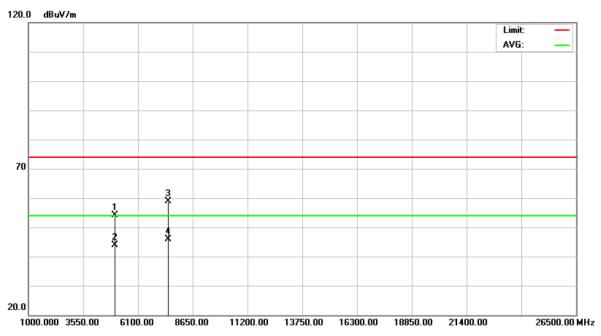


No.	MŁ	κ. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Χ	2480.000	65.21	32.18	97.39	74.00	23.39	peak	
2	*	2480.000	54.11	32.18	86.29	54.00	32.29	AVG	
3		2484.000	27.98	32.19	60.17	74.00	-13.83	peak	
4		2484.000	16.41	32.19	48.60	54.00	-5.40	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	25°C	Relative Humidity	62%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/1 Mbps/2480 MHz							

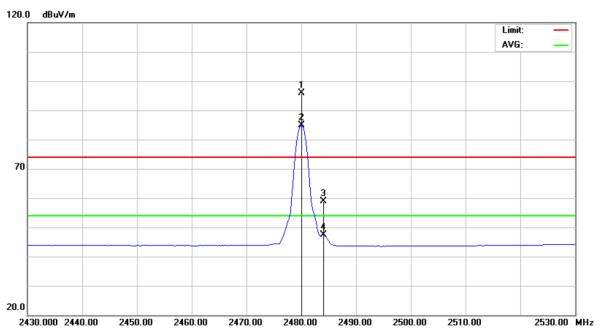


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4959.985	47.68	6.39	54.07	74.00	-19.93	peak	
2		4959.985	37.48	6.39	43.87	54.00	-10.13	AVG	
3		7439.500	45.68	13.24	58.92	74.00	-15.08	peak	
4	*	7439.500	32.57	13.24	45.81	54.00	-8.19	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	25°C	Relative Humidity	62%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/1 Mbps/2480 MHz							

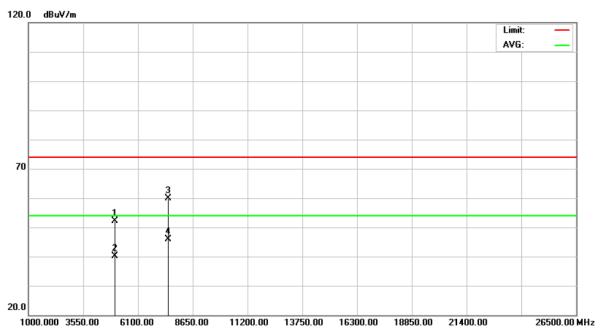


No.	Mŀ	κ. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Χ	2480.000	63.67	32.18	95.85	74.00	21.85	peak	
2	*	2480.000	52.72	32.18	84.90	54.00	30.90	AVG	
3		2484.000	26.57	32.19	58.76	74.00	-15.24	peak	
4		2484.000	15.28	32.19	47.47	54.00	-6.53	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	25°C	Relative Humidity	62%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/1 Mbps/2480 MHz							

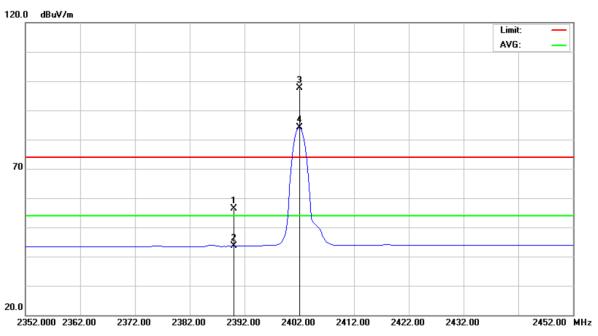


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4959.870	45.78	6.39	52.17	74.00	-21.83	peak	
2		4959.870	33.75	6.39	40.14	54.00	-13.86	AVG	
3		7439.975	46.69	13.25	59.94	74.00	-14.06	peak	
4	*	7439.975	32.54	13.25	45.79	54.00	-8.21	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	25°C	Relative Humidity	62%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/3 Mbps/2402 MHz							

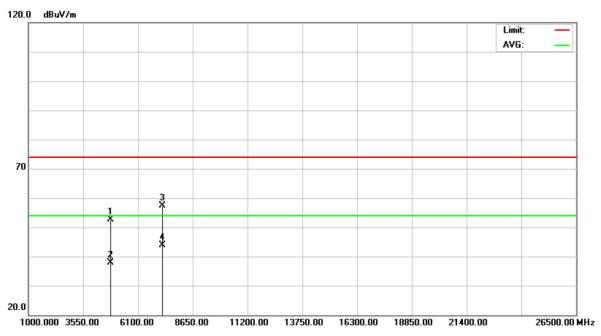


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.58	31.81	56.39	74.00	-17.61	peak	
2		2390.000	11.75	31.81	43.56	54.00	-10.44	AVG	
3	Χ	2402.000	65.67	31.86	97.53	74.00	23.53	peak	
4	*	2402.000	52.27	31.86	84.13	54.00	30.13	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	25°C	Relative Humidity	62%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/3 Mbps/2402 MHz							

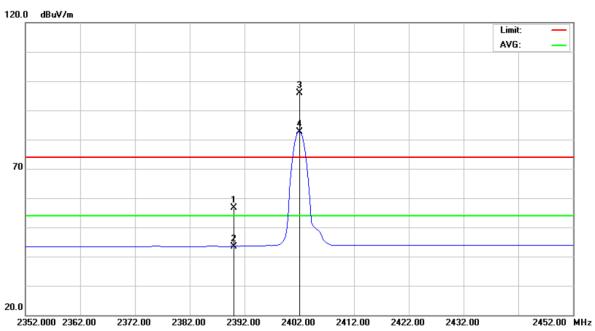


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4803.975	46.44	6.19	52.63	74.00	-21.37	peak	
2		4803.975	31.63	6.19	37.82	54.00	-16.18	AVG	
3		7205.605	44.91	12.37	57.28	74.00	-16.72	peak	
4	*	7205.605	31.60	12.37	43.97	54.00	-10.03	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	25°C	Relative Humidity	62%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/3 Mbps/2402 MHz							

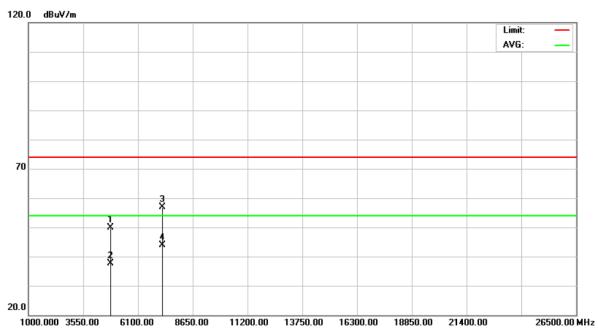


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
Ī			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		2390.000	24.75	31.81	56.56	74.00	-17.44	peak	
	2		2390.000	11.69	31.81	43.50	54.00	-10.50	AVG	
	3	Χ	2402.000	63.96	31.86	95.82	74.00	21.82	peak	
	4	*	2402.000	50.88	31.86	82.74	54.00	28.74	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	25°C	Relative Humidity	62%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/3 Mbps/2402 MHz							

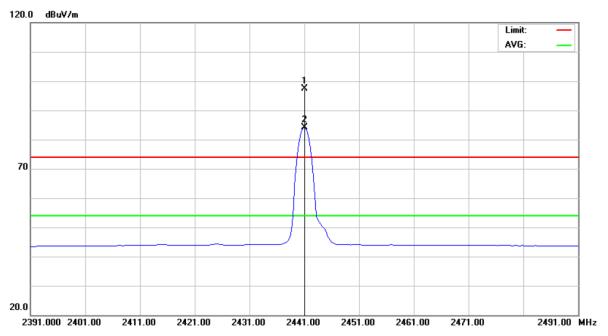


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4803.660	43.78	6.19	49.97	74.00	-24.03	peak	
2		4803.660	31.45	6.19	37.64	54.00	-16.36	AVG	
3		7206.155	44.42	12.38	56.80	74.00	-17.20	peak	
4	*	7206.155	31.57	12.38	43.95	54.00	-10.05	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	62%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/3 Mbps/2441 MHz		

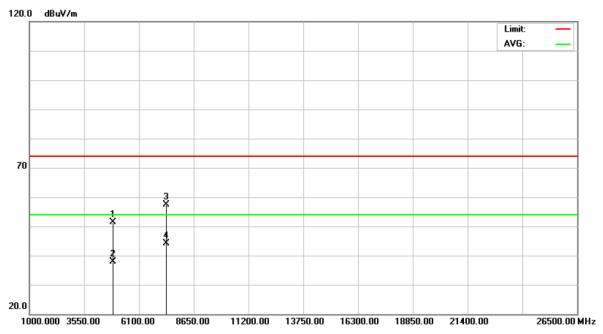


No.	. MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Χ	244	11.000	65.33	32.02	97.35	74.00	23.35	peak	
2	*	244	11.000	52.03	32.02	84.05	54.00	30.05	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	62%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/3 Mbps/2441 MHz		

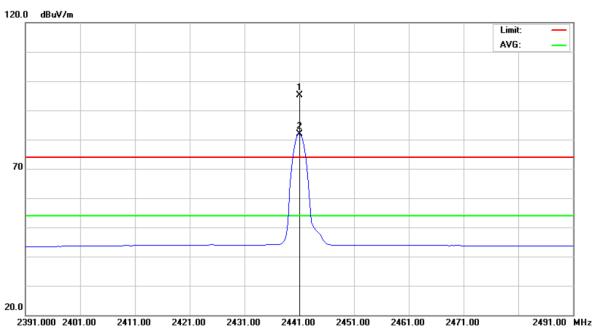


	No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		4882.160	45.15	6.29	51.44	74.00	-22.56	peak	
	2		4882.160	31.65	6.29	37.94	54.00	-16.06	AVG	
	3		7323.060	44.45	12.81	57.26	74.00	-16.74	peak	
	4	*	7323.060	31.29	12.81	44.10	54.00	-9.90	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220				
Temperature	25°C	Relative Humidity	62%				
Test Voltage	AC 120V/60Hz						
Test Mode	Bluetooth/3 Mbps/2441 MHz						

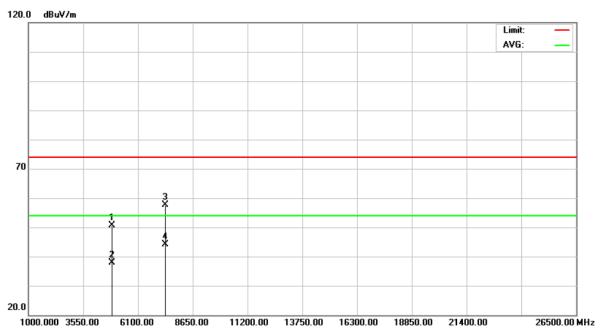


No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 X 2	2441.000	63.00	32.02	95.02	74.00	21.02	peak	
2 * 2	2441.000	49.89	32.02	81.91	54.00	27.91	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220							
Temperature	25°C	Relative Humidity	62%							
Test Voltage	AC 120V/60Hz	AC 120V/60Hz								
Test Mode	Bluetooth/3 Mbps/2441 MHz									



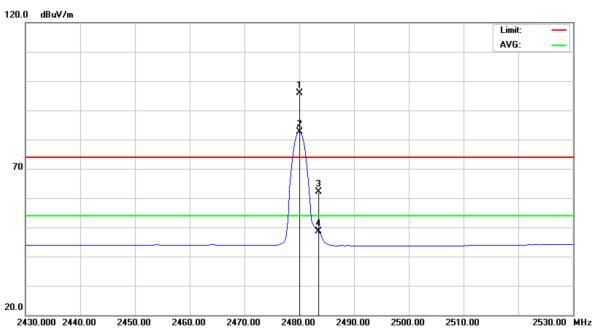
	No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
Ī			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		4881.925	44.23	6.29	50.52	74.00	-23.48	peak	
	2		4881.925	31.71	6.29	38.00	54.00	-16.00	AVG	
	3		7323.335	44.72	12.81	57.53	74.00	-16.47	peak	
	4	*	7323.335	31.25	12.81	44.06	54.00	-9.94	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	25°C	Relative Humidity	62%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/3 Mbps/2480 MHz							

Polarization: Vertical



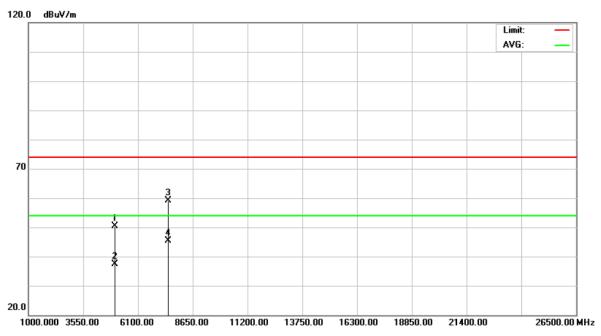
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Х	2480.000	63.61	32.18	95.79	74.00	21.79	peak	
2	*	2480.000	50.51	32.18	82.69	54.00	28.69	AVG	
3		2483.500	29.86	32.19	62.05	74.00	-11.95	peak	
4		2483.500	16.37	32.19	48.56	54.00	-5.44	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220							
Temperature	25°C	Relative Humidity	62%							
Test Voltage	AC 120V/60Hz	AC 120V/60Hz								
Test Mode	Bluetooth/3 Mbps/2480 MHz									

Polarization: Vertical

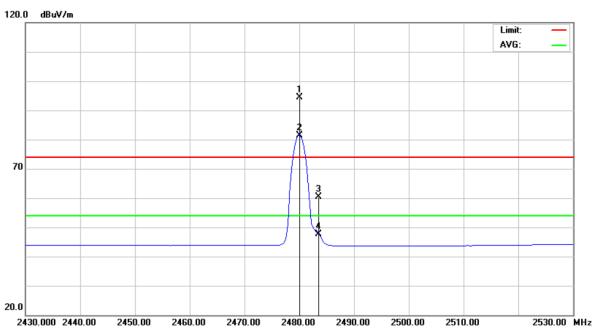


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4959.930	44.10	6.39	50.49	74.00	-23.51	peak	
2		4959.930	30.92	6.39	37.31	54.00	-16.69	AVG	
3		7440.430	45.79	13.25	59.04	74.00	-14.96	peak	
4	*	7440.430	32.11	13.25	45.36	54.00	-8.64	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220							
Temperature	25°C	Relative Humidity	62%							
Test Voltage	AC 120V/60Hz	AC 120V/60Hz								
Test Mode	Bluetooth/3 Mbps/2480 MHz									

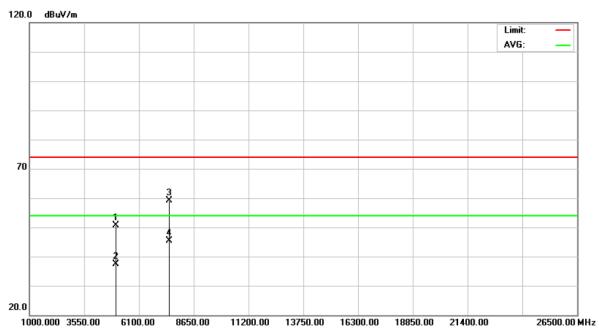


No.	MI	κ. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Χ	2480.000	62.10	32.18	94.28	74.00	20.28	peak	
2	*	2480.000	49.29	32.18	81.47	54.00	27.47	AVG	
3		2483.500	28.24	32.19	60.43	74.00	-13.57	peak	
4		2483.500	15.44	32.19	47.63	54.00	-6.37	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220							
Temperature	25°C	Relative Humidity	62%							
Test Voltage	AC 120V/60Hz	AC 120V/60Hz								
Test Mode	Bluetooth/3 Mbps/2480 MHz									



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
Ī			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	•	4960.050	44.13	6.39	50.52	74.00	-23.48	peak	
	2		4960.050	30.92	6.39	37.31	54.00	-16.69	AVG	
	3	•	7439.430	45.81	13.24	59.05	74.00	-14.95	peak	
	4	* .	7439.430	32.07	13.24	45.31	54.00	-8.69	AVG	

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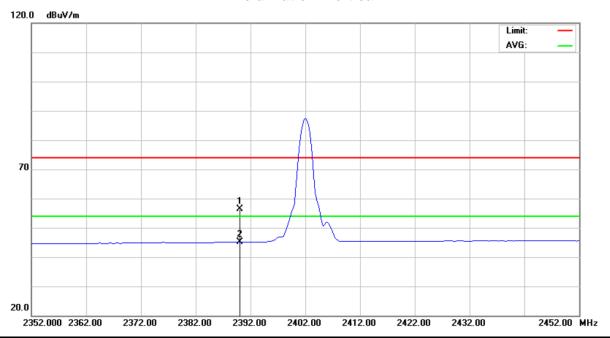


FCC ID: SQK-FTP628WSL220A / IC Neutron Engineering Inc._____

9.9 TEST RESULTS (RESTRICTED BANDS)

EUT	Mobile Printer	Model Name	FTP-628WSL220						
Temperature	24°C Relative Humidity 46%								
Test Voltage	AC 120V/60Hz								
Test Mode	Bluetooth/1 Mbps/2402 MHz								
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.								

Polarization: Vertical

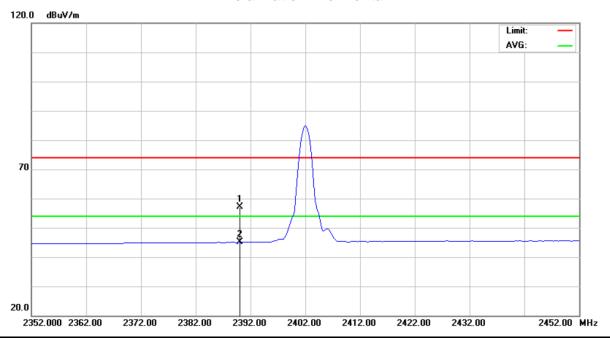


	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	O∨er		
_			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	2	390.000	24.63	31.81	56.44	74.00	-17.56	peak	
_	2	* 2	390.000	13.27	31.81	45.08	54.00	-8.92	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220						
Temperature	24°C	Relative Humidity	46%						
Test Voltage	AC 120V/60Hz								
Test Mode	Bluetooth/1 Mbps/2402 MHz								
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.								



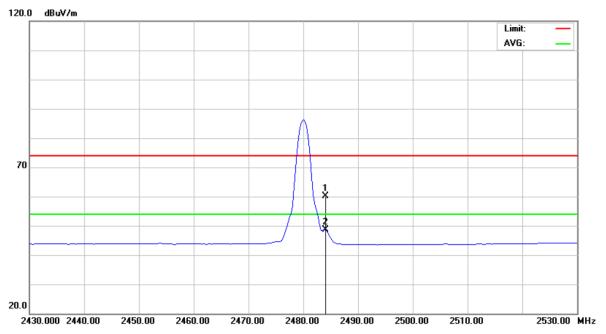
No.	Mk	c. Freq.	Reading Level		Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	25.22	31.81	57.03	74.00	-16.97	peak	
2	*	2390.000	13.20	31.81	45.01	54.00	-8.99	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220					
Temperature	24°C	Relative Humidity	46%					
Test Voltage	AC 120V/60Hz							
Test Mode	Bluetooth/1 Mbps/2480 MHz							
	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.							

Polarization: Vertical

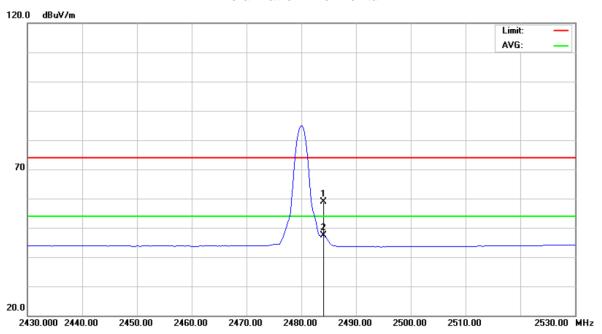


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1	24	484.000	27.98	32.19	60.17	74.00	-13.83	peak	
	2	* 24	484.000	16.41	32.19	48.60	54.00	-5.40	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220						
Temperature	24°C	Relative Humidity	46%						
Test Voltage	AC 120V/60Hz								
Test Mode	Bluetooth/1 Mbps/2480 MHz								
11/11) 1 1	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.								



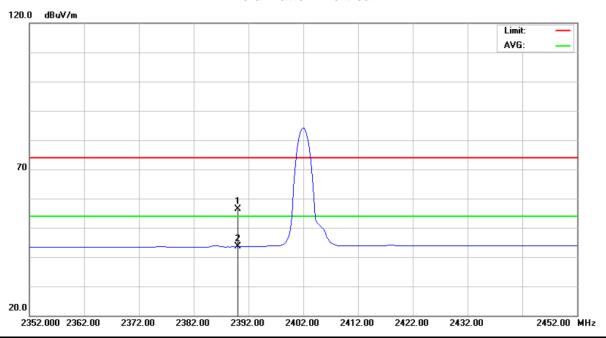
No.	Mk	c. Freq.	Reading Level		Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2484.000	26.57	32.19	58.76	74.00	-15.24	peak	
2	*	2484.000	15.28	32.19	47.47	54.00	-6.53	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220						
Temperature	24°C	Relative Humidity	46%						
Test Voltage	AC 120V/60Hz								
Test Mode	Bluetooth/3 Mbps/2402 MHz								
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.								

Polarization: Vertical

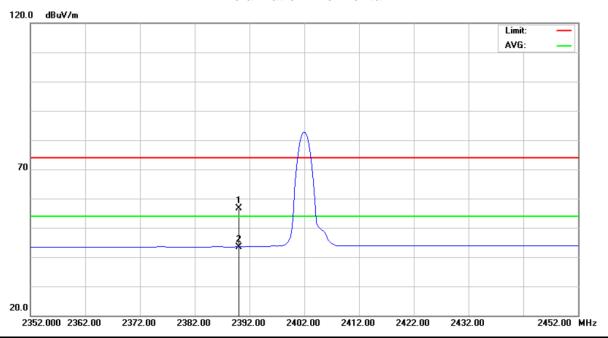


	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	O∨er		
_			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	23	390.000	24.58	31.81	56.39	74.00	-17.61	peak	
_	2	* 23	390.000	11.75	31.81	43.56	54.00	-10.44	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220						
Temperature	24°C Relative Humidity 46%								
Test Voltage	AC 120V/60Hz								
Test Mode	Bluetooth/3 Mbps/2402 MHz								
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength w measured at 2310-2390 MHz.								



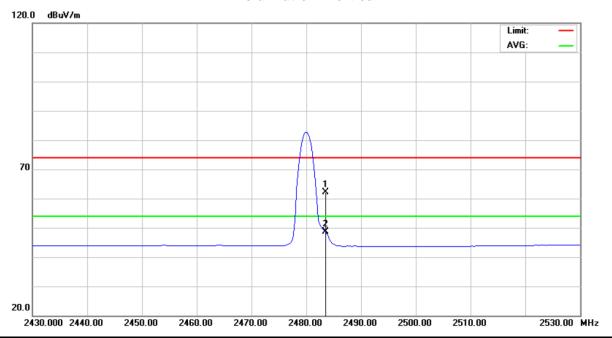
No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	O∨er		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.75	31.81	56.56	74.00	-17.44	peak	
2	*	2390.000	11.69	31.81	43.50	54.00	-10.50	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220						
Temperature	24°C	Relative Humidity	46%						
Test Voltage	AC 120V/60Hz								
Test Mode	Bluetooth/3 Mbps/2480 MHz								
	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.								

Polarization: Vertical

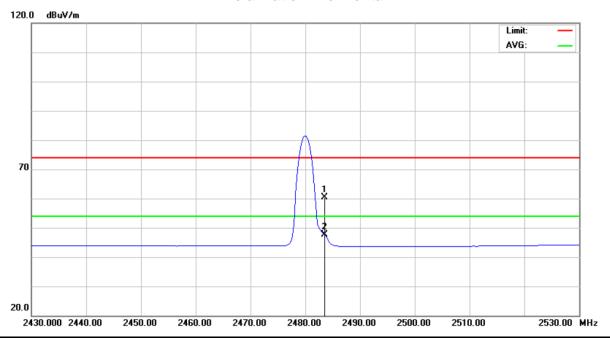


	No.	Mk	. Freq.			Measure- ment	Limit	O∨er		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1		2483.500	29.86	32.19	62.05	74.00	-11.95	peak	
_	2	*	2483.500	16.37	32.19	48.56	54.00	-5.44	AVG	

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EUT	Mobile Printer	Model Name	FTP-628WSL220		
Temperature	24°C	Relative Humidity	46%		
Test Voltage	AC 120V/60Hz				
Test Mode	Bluetooth/3 Mbps/2480 MHz				
	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.				



	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over		
-			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	2	483.500	28.24	32.19	60.43	74.00	-13.57	peak	
_	2	* 2	483.500	15.44	32.19	47.63	54.00	-6.37	AVG	

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10 NUMBER OF HOPPING FREQUENCY

10.1LIMIT

Test Item	Frequency Range (MHz)	Limit
Number of Hopping Channel	2400-2483.5	shall use at least 15 channels

10.2MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

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

10.3MEASURING INSTRUMENTS SETTING

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

10.4TEST PROCEDURES

- 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= 100 kHz, VBW=100 kHz, Sweep time = Auto.

10.5TEST SETUP LAYOUT



10.6 DEVIATION FROM TEST STANDARD

No deviation

10.7EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 5.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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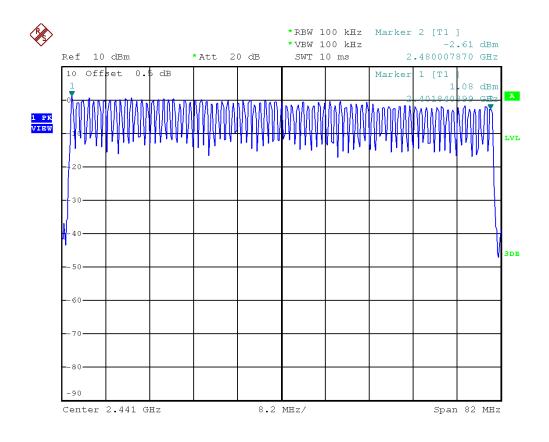


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10.8TEST RESULTS

EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	62%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps		

Number of Hopping Channel	Limit	Result
79	15	Pass

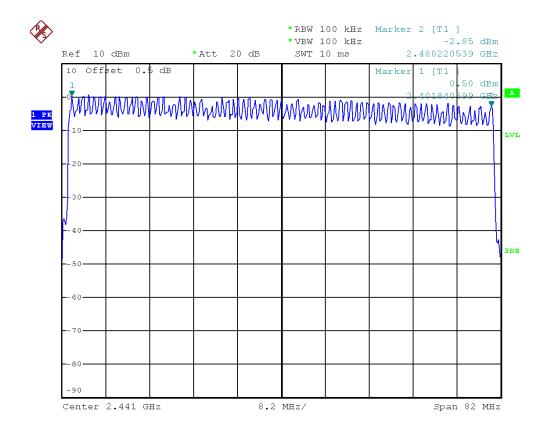


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EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	62%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/3 Mbps		

Number of Hopping Channel	Limit	Result
79	15	Pass



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11 AVERAGE TIME OF OCCUPANCY

11.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Average time of occupancy	2400-2483 5	shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

11.2MEASUREMENT INSTRUMENTS LIST

I	tem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

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

11.3TEST PROCEDURES

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 100 kHz and VBW to 100 kHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/79/6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 5.06 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 $10.12 \times 31.6 = 320$ within 31.6 seconds.

11.4TEST SETUP LAYOUT

EUT	SPECTRUM
	ANALYZER

11.5 DEVIATION FROM TEST STANDARD

No deviation

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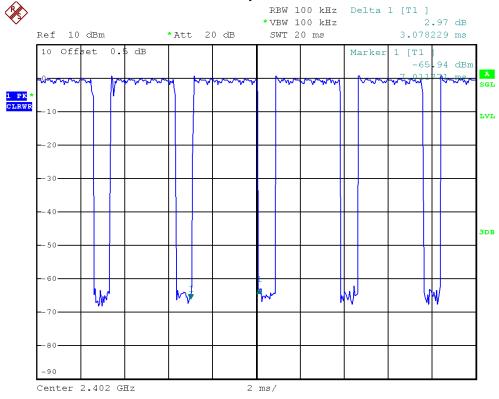
Neutron Engineering Inc.

11.7TEST RESULTS

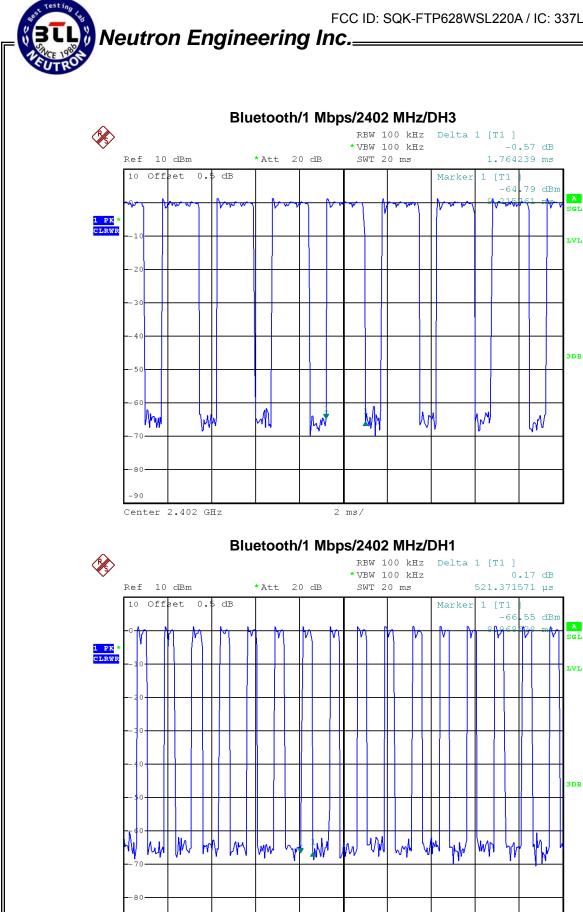
EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2402 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2402 MHz	3.0782	0.3283	0.4	PASS
DH3	2402 MHz	1.7642	0.2823	0.4	PASS
DH1	2402 MHz	0.5214	0.1668	0.4	PASS

Bluetooth/1 Mbps/2402 MHz/DH5



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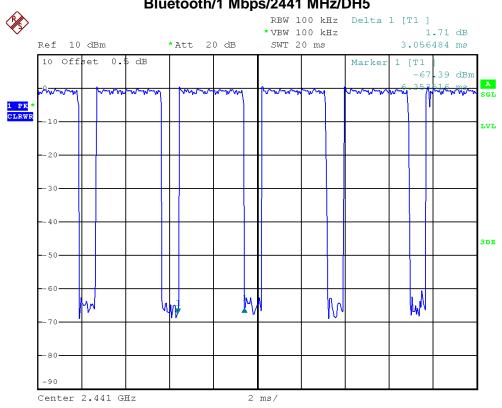
Center 2.402 GHz



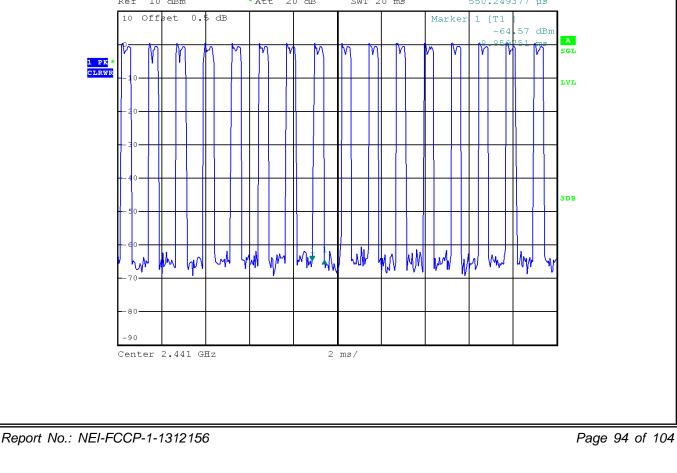
EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2441 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2441 MHz	3.0565	0.3260	0.4	PASS
DH3	2441 MHz	1.7605	0.2817	0.4	PASS
DH1	2441 MHz	0.5502	0.1761	0.4	PASS

Bluetooth/1 Mbps/2441 MHz/DH5



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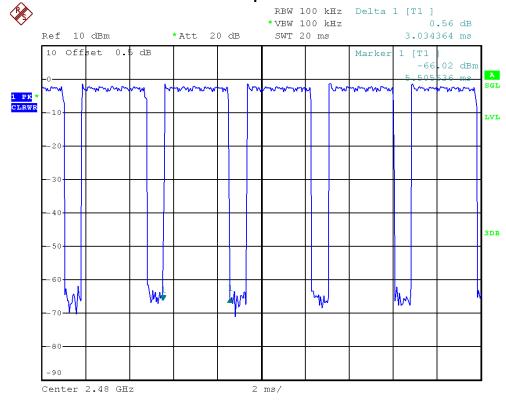




EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps/2480 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2480 MHz	3.0344	0.3237	0.4	PASS
DH3	2480 MHz	1.7434	0.2789	0.4	PASS
DH1	2480 MHz	0.5309	0.1699	0.4	PASS

Bluetooth/1 Mbps/2480 MHz/DH5



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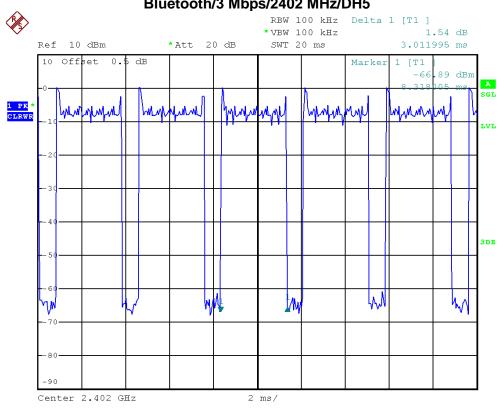
Center 2.48 GHz



EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/3 Mbps/2402 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2402 MHz	3.0120	0.3213	0.4	PASS
DH3	2402 MHz	1.7632	0.2821	0.4	PASS
DH1	2402 MHz	0.5621	0.1799	0.4	PASS

Bluetooth/3 Mbps/2402 MHz/DH5



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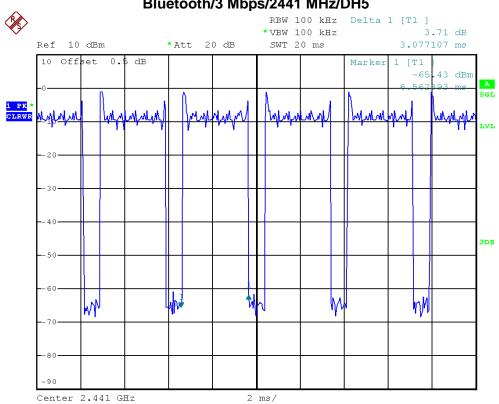
Center 2.402 GHz



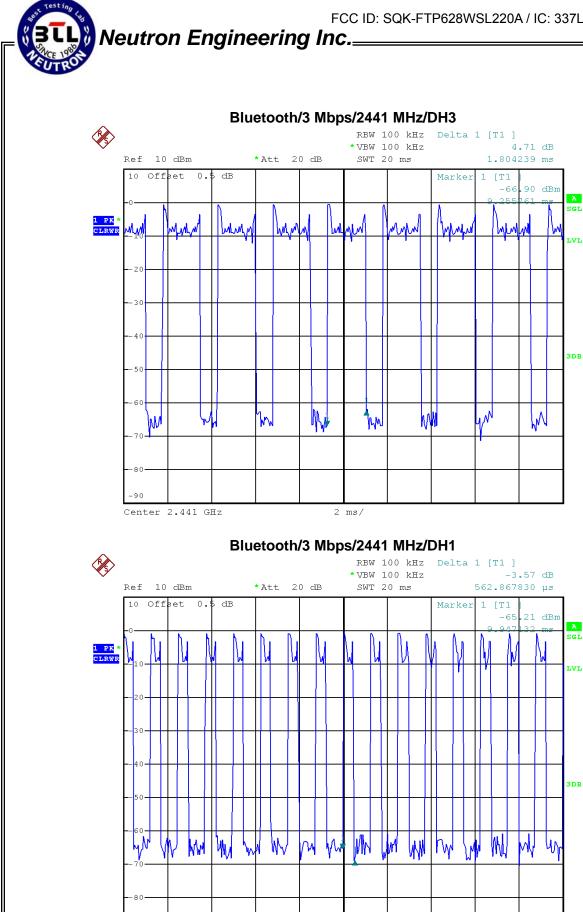
EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/3 Mbps/2441 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2441 MHz	3.0771	0.3282	0.4	PASS
DH3	2441 MHz	1.8042	0.2887	0.4	PASS
DH1	2441 MHz	0.5629	0.1801	0.4	PASS

Bluetooth/3 Mbps/2441 MHz/DH5



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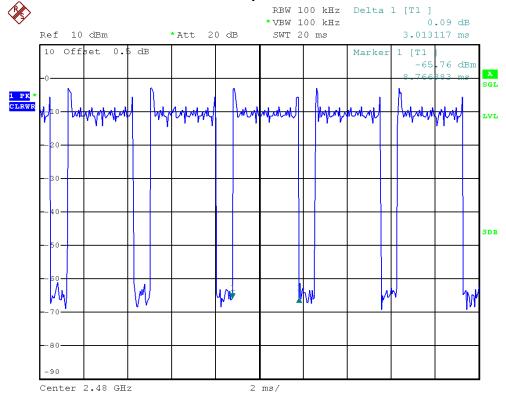
Center 2.441 GHz



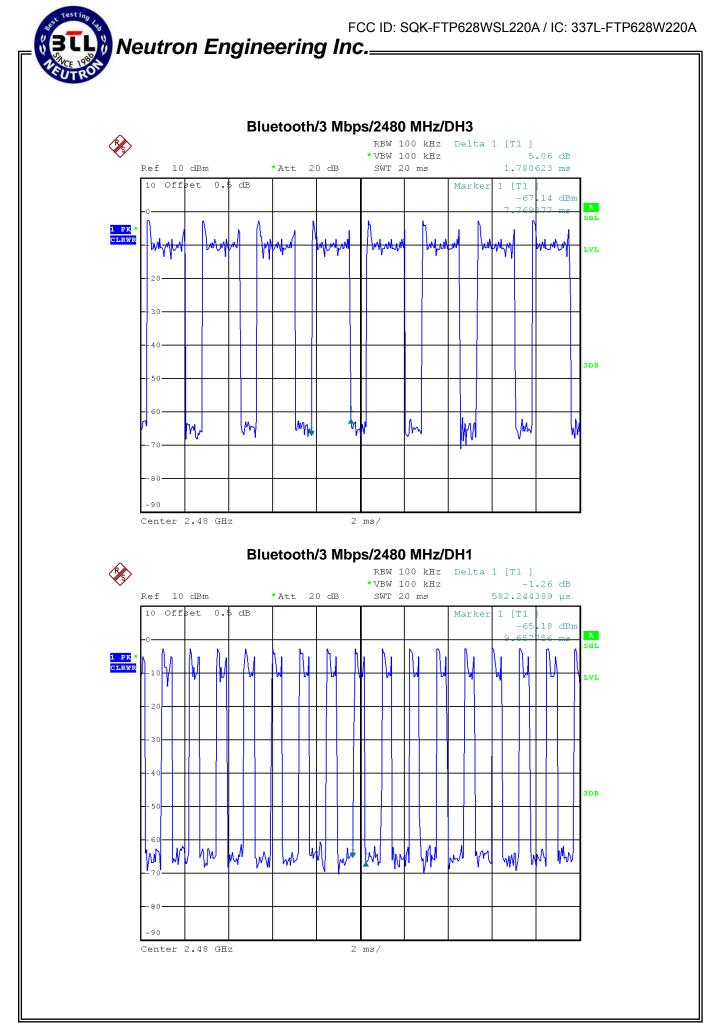
EUT	Mobile Printer	Model Name	FTP-628WSL220
Temperature	25°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/3 Mbps/2480 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH5	2480 MHz	3.0131	0.3214	0.4	PASS
DH3	2480 MHz	1.7806	0.2849	0.4	PASS
DH1	2480 MHz	0.5822	0.1863	0.4	PASS

Bluetooth/3 Mbps/2480 MHz/DH5



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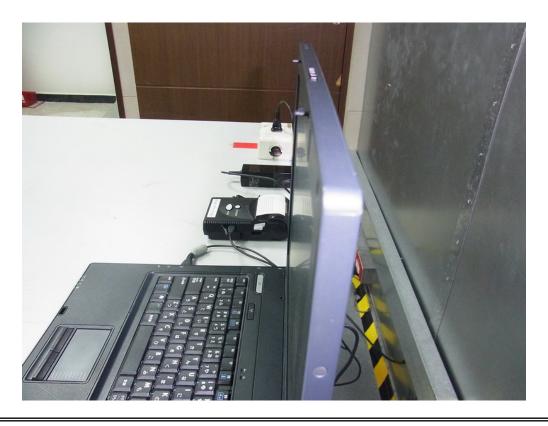


FCC ID: SQK-FTP628WSL220A / IC Neutron Engineering Inc._____

12 EUT TEST PHOTO

Conducted emission test photos





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Radiated spurious emission test photos





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