

FCC Radio Test Report FCC ID: K7SF9K1009V2

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

Project No. : 1405C012

Equipment: Wireless N150 Router

Model Name : F9K1009V2

Applicant: Belkin International, Inc.

Address : 12045 E. Waterfront Drive, Playa Vista,

CA 90094

Tested by: Neutron Engineering Inc. EMC Laboratory

Date of Receipt: May 05, 2014

Date of Test: May 05, 2014 ~ May 23, 2014

Issued Date: May 26, 2014

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Declaration

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FCCP-1-1405C012	Original Issue.	May 26, 2014

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1. CERTIFICATION

Equipment : Wireless N150 Router

Brand Name: Belkin Model Name: F9K1009V2

Applicant : Belkin International, Inc. Manufacturer : Belkin International, Inc.

Address : 12045 E. Waterfront Drive, Playa Vista, CA 90094

Factory: 1) Shenzhen Gongjin Electronics Co., Ltd.

2) TAICANG T&W Electronics Co., Ltd.

Address : 1) No 2&3 Buildings, Mingwei Factory Area, Songgang Road West, No. A

Building, 1#Songgang Road Songgang Sub-District, Shenzhen,

Guangdong, 518105, P.R.China

2) Jiangnan Road 89, Ludu Town, Taicang, Jiangsu, 215412, P.R. China

Date of Test : May 05, 2014 ~ May 23, 2014 Test Item : ENGINEERING SAMPLE

Standard(s) : FCC Part15, Subpart C(15.247) / 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-1-1405C012) 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

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C Canada RSS-210:2010; RSS-GEN Issue 3, Dec 2010					
Standard	l(s) Section	Test Item	ludament	Remark	
FCC	IC	rest item	Judgment	Remark	
15.207	RSS-GEN 7.2.2	Conducted Emission	PASS		
15.247(d)	RSS-210 Annex 8 (A8.5)	Antenna conducted Spurious Emission	PASS		
15.247(a)(2)	RSS-210 Annex 8 (A8.2(a))	6dB Bandwidth	PASS		
15.247(b)(3)	RSS-210 Annex 8 (A8.4(4))	Peak Output Power	PASS		
15.247(e)	RSS-210 Annex 8 (A8.2(b))	Power Spectral Density	PASS		
15.203	-	Antenna Requirement	PASS		
15.209/15.205	RSS-210 Annex 8 (A8.5)	Transmitter Radiated Emissions	PASS		

NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r01 (Measurement Guidelines of DTS)

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792

Neutron's test firm number for FCC: 319330 Neutron's test firm number for IC: 4428B-1

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

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

B. Radiated Measurement:

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

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless N150 Router			
Brand Name	Belkin			
Model Name	F9K1009V2			
Model Difference	N/A			
	Operation Frequency	2412~2462 MHz		
Product Description	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM		
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 150 Mbps		
	Output Power (Max.)	802.11b: 19.11 dBm 802.11g: 21.67 dBm 802.11n(20MHz): 21.46 dBm 802.11n(40MHz): 21.56 dBm		
Power Source	DC voltage supplied from Adapter. Brand/Model:Gongjin/S06A12-120A050-P4			
Power Rating	I/P: AC 100-240V~50/60Hz max 0.3A O/P: DC12V/0.5A			
Connecting I/O Port(s)	Please refer to the User's Manual			

Note:

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

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2. Channel List:

	CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz) CH 03 – CH 09 for 802.11n(40MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3 Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Dongguan City Xinsheng Electronics Co.,Ltd	80000000005-11-12 -13	Dipole	N/A	3

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	TX MODE

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

For Conducted Test		
Final Test Mode	Description	
Mode 5	TX MODE	

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps) 802.11g mode: OFDM (6Mbps)

802.11n HT20 mode : BPSK (6.5Mbps) 802.11n HT40 mode : BPSK (6.5Mbps)

For radiated emission tests, the highest output powers were set for final test.

(3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.

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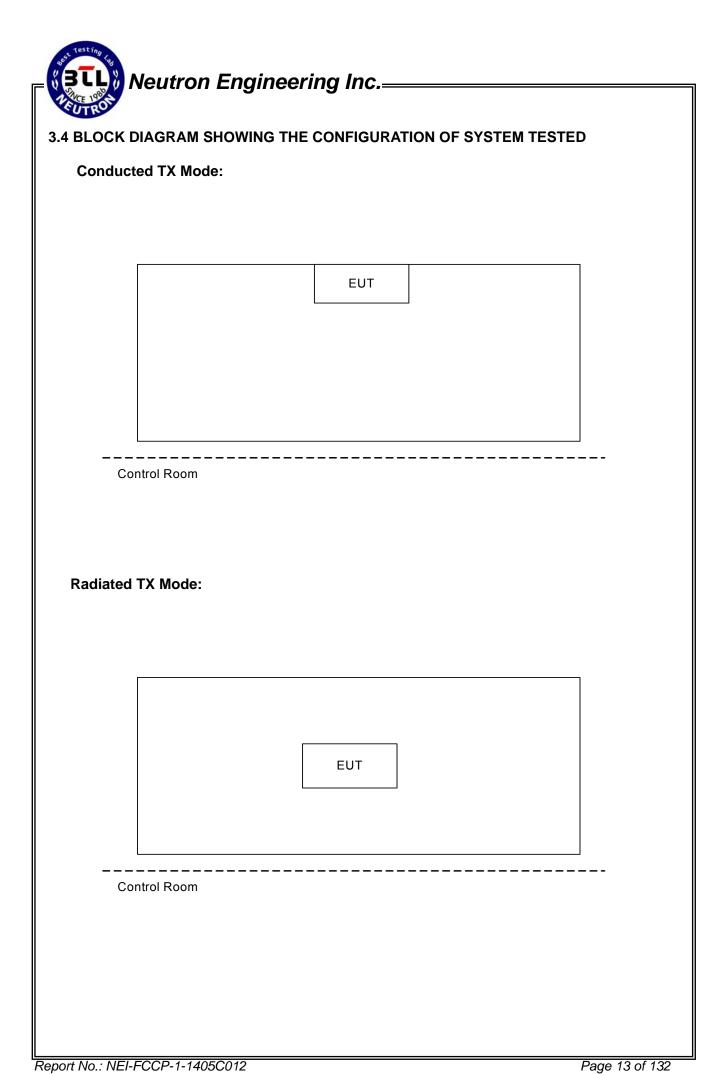


3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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 power parameters of WLAN

Test software version		SmartTools20110629	
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	39	38	38
IEEE 802.11g OFDM	43	44	44
IEEE 802.11n (20MHz)	43	43	43
Frequency	2422 MHz	2437 MHz	2452 MHz
IEEE 802.11n (40MHz)	43	43	44

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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
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

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

The following table is the setting of the receiver

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

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

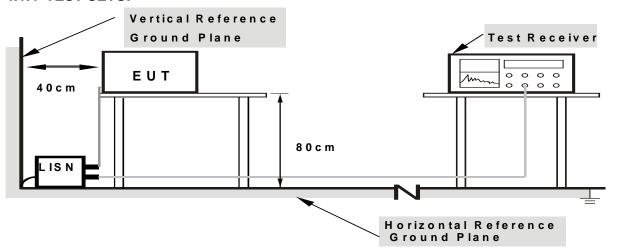
4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 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.

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
Frequency (Wiriz)	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	ANNUE / ANNUE for Dools A MULE / AOUE for Asserting
(Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

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

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4.2.2 TEST PROCEDURE

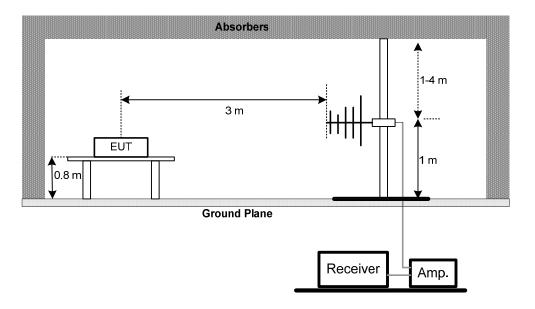
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

4.2.4 TEST SETUP

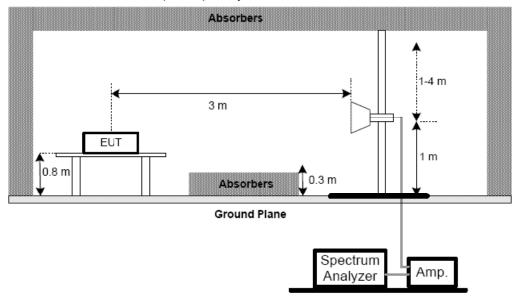
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



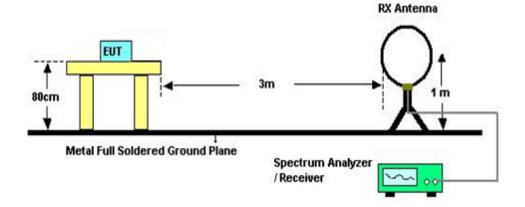
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(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

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

4.2.6 EUT TEST CONDITIONS

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

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4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

Remark:

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

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (4) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (5) 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

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5. BANDWIDTH TEST

5.1 Applied procedures

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2) Bandwidth 2400-2483.5 PASS			

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

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

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS			

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.3 of FCC KDB 558074 D01 DTS Meas Guidance v03r01.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 Girol Motor

6.1.4 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.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

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

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.1.4 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.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

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8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Limit Frequency Range (MHz)			
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 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.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	LISN	EMCO	3816/2	00052765	Mar. 29, 2015			
2	LISN	R&S	ENV216	101447	Mar. 29, 2015			
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015			
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015			
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015			

	Radiated Emission Measurement						
Item	Kind of Equipment	Equipment Manufacturer Type No.		Serial No.	Calibrated until		
1	Antenna	EMCO	3142C	00066462	Mar. 29, 2015		
2	Antenna	EMCO	3142C	00066464	Mar. 29, 2015		
3	Amplifier	Agilent	8447D	2944A11203	Nov. 11, 2014		
4	Amplifier	Agilent	8447D	2944A11204	Nov. 11, 2014		
5	Spectrum Analyzer	Agilent	E4443A	MY48250370	Nov. 11, 2014		
6	RF Pre-selector	Agilent	N9039A	MY46520201	Nov. 11, 2014		
7	Test Cable	N/A	Cable_5m_8m _15m	N/A	Jan. 14, 2015		
8	Test Cable	N/A	Cable_5m_11 m_15m	N/A	Jan. 14, 2015		
9	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014		
10	RF Pre-selector	Agilent	N9039A	MY46520214	Nov. 11, 2014		
11	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A		
12	Horn Antenna	EMCO	3115	9605-4803	Mar. 29, 2015		
13	Amplifier	Agilent	8449B	3008A02584	Nov. 11, 2014		
14	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014		
15	Test Cable	Huber+Suhner	SUCOFLEX_1 5m_4m	N/A	Jan. 14, 2015		

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	6dB Bandwidth Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014		

	Peak Output Power Measurement						
Item	em Kind of Equipment Manufacturer Type No. Serial No. Calibrated						
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 29, 2015		
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015		

	Antenna Conducted Spurious Emission Measurement						
Item	Kind of Equipment Manufacturer		Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014		

	Power Spectral Density Measurement						
Item	Kind of Equipment	Calibrated until					
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014		

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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10. EUT TEST PHOTO

Conducted Measurement Photos





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Radiated Measurement Photos 9KHz to 30MHz





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Radiated Measurement Photos 30MHz to 1000MHz





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Radiated Measurement Photos Above 1000MHz





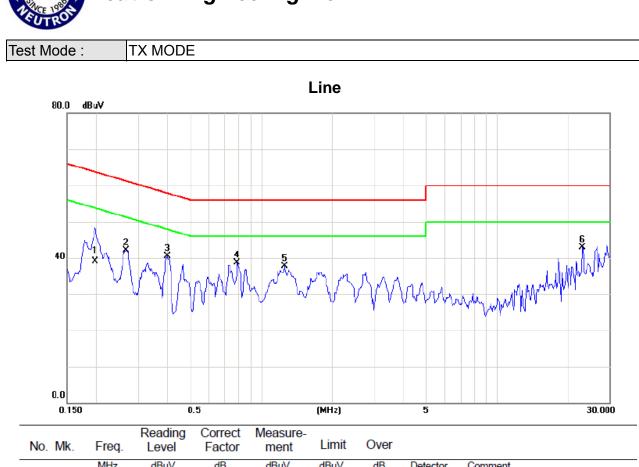
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ATTACHMENT A - CONDUCTED EMISSION

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Neutron Engineering Inc.

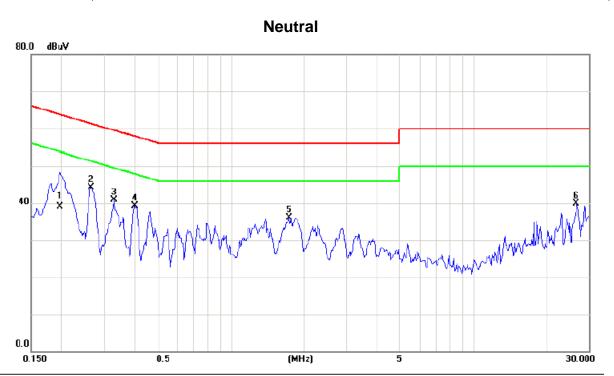


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1968	29.55	9.65	39.20	53.74	-14.54	AVG	
2	0.2671	32.38	9.66	42.04	61.21	-19.17	peak	
3	0.3976	30.91	9.68	40.59	57.90	-17.31	peak	
4	0.7903	29.07	9.72	38.79	56.00	-17.21	peak	
5	1.2515	27.90	9.77	37.67	56.00	-18.33	peak	
6	23.1290	32.64	10.29	42.93	60.00	-17.07	peak	

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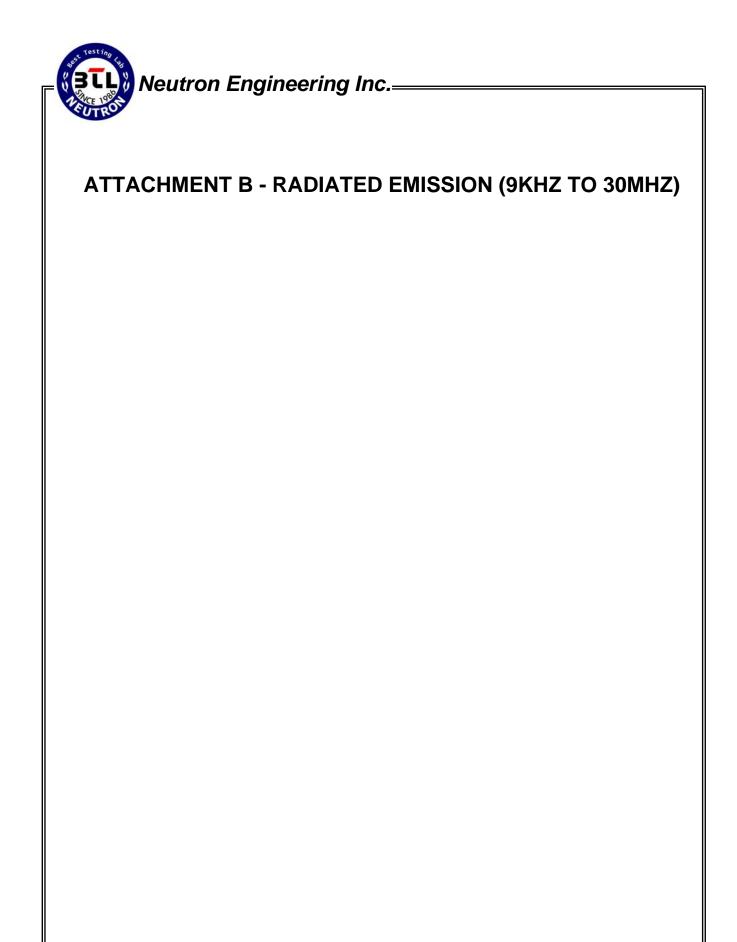






No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1968	29.40	9.71	39.11	53.74	-14.63	AVG	
2	0.2631	34.59	9.72	44.31	61.33	-17.02	peak	
3	0.3296	31.11	9.72	40.83	59.46	-18.63	peak	
4	0.4000	29.50	9.73	39.23	57.85	-18.62	peak	
5	1.7360	26.18	9.84	36.02	56.00	-19.98	peak	
6	26.6718	29.28	10.62	39.90	60.00	-20.10	peak	

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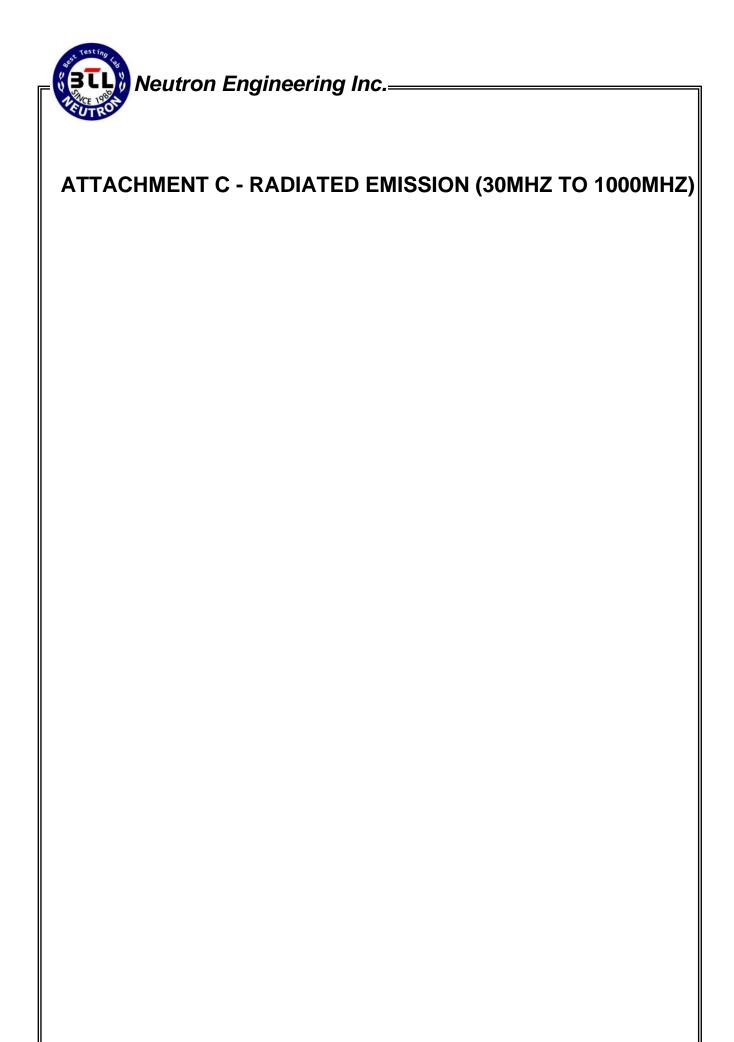
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Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOIC
0.0095	0°	68.35	24.30	92.65	128.07	-35.42	AV
0.0095	0°	72.35	24.30	96.65	148.07	-51.42	PK
0.0141	0°	70.35	24.30	94.65	124.62	-29.97	AV
0.0141	0°	79.35	24.30	103.65	144.62	-40.97	PK
0.0253	0°	56.36	23.96	80.32	119.54	-39.22	AV
0.0253	0°	60.12	23.96	84.08	139.54	-55.46	PK
0.0336	0°	61.36	23.44	84.80	117.08	-32.28	AV
0.0336	0°	65.38	23.44	88.82	137.08	-48.26	PK
0.5720	0°	18.72	20.03	38.75	72.46	-33.71	QP
1.7547	0°	18.95	19.52	38.47	96.54	-58.07	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOIC
0.0095	90°	76.35	24.30	100.65	128.04	-27.39	AVG
0.0095	90°	82.36	24.30	106.66	148.04	-41.38	PK
0.0245	90°	56.38	24.02	80.40	119.82	-39.42	AVG
0.0245	90°	59.35	24.02	83.37	139.82	-56.45	PK
0.0324	90°	57.35	23.51	80.86	117.39	-36.53	AVG
0.0324	90°	58.35	23.51	81.86	137.39	-55.53	PK
0.0432	90°	59.35	22.83	82.18	114.89	-32.71	AVG
0.0432	90°	63.35	22.83	86.18	134.89	-48.71	PK
0.4921	90°	17.45	19.82	37.27	73.76	-36.49	QP
1.7164	90°	18.63	19.53	38.16	69.54	-31.38	QP

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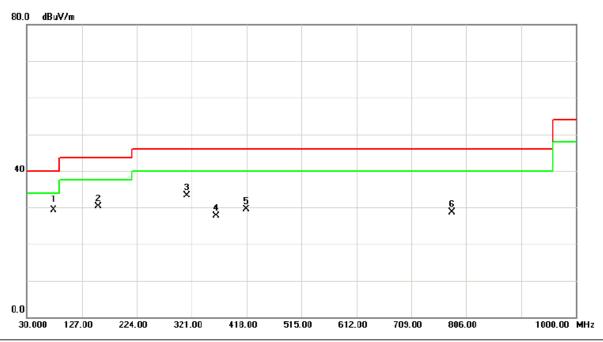


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Neutron Engineering Inc.=



Vertical



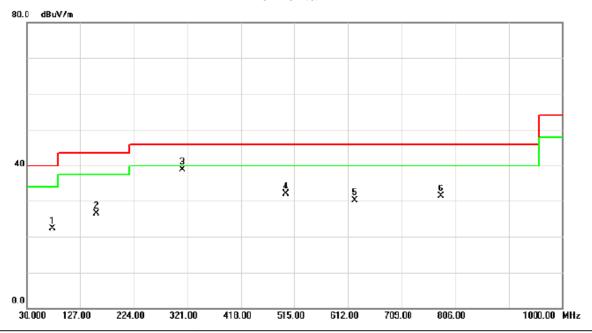
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1	*	77.5300	46.37	-17.13	29.24	40.00	-10.76	QP	
_	2	1	156.1000	44.00	-13.69	30.31	43.50	-13.19	peak	
_	3	3	312.2700	44.61	-11.30	33.31	46.00	-12.69	peak	
-	4	3	363.6800	38.73	-11.02	27.71	46.00	-18.29	peak	
-	5	4	117.0300	39.14	-9.56	29.58	46.00	-16.42	peak	
_	6	7	780.7800	32.51	-3.81	28.70	46.00	-17.30	peak	
_										

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Neutron Engineering Inc.

Test Mode: TX B MODE CHANNEL 01

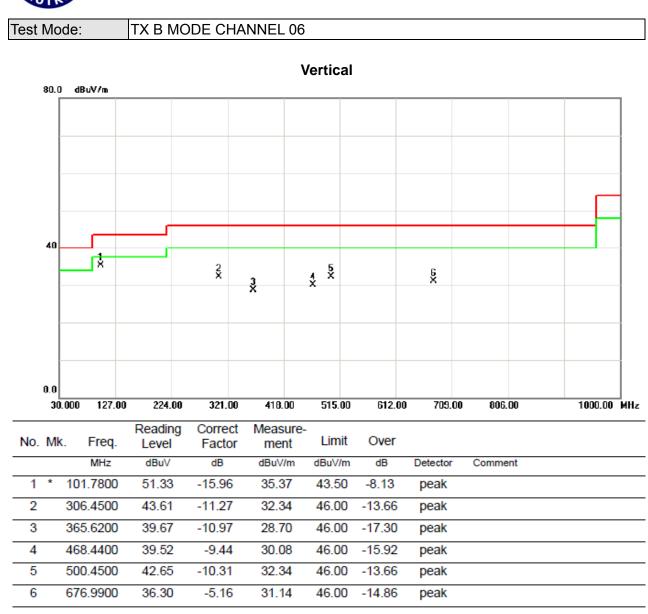
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		77.5300	39.47	-17.13	22.34	40.00	-17.66	peak	
2		156.1000	40.18	-13.69	26.49	43.50	-17.01	peak	
3	*	312.2700	50.12	-11.30	38.82	46.00	-7.18	peak	
4		500.4500	42.20	-10.31	31.89	46.00	-14.11	peak	
5		624.6100	37.02	-6.86	30.16	46.00	-15.84	peak	
6		780.7800	35.11	-3.81	31.30	46.00	-14.70	peak	

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0.0 30.000

127.00

224.00

321.00

418.00

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		77.5300	40.72	-17.13	23.59	40.00	-16.41	peak	
2		156.1000	38.43	-13.69	24.74	43.50	-18.76	peak	
3	*	312.2700	47.37	-11.30	36.07	46.00	-9.93	peak	
4		500.4500	42.45	-10.31	32.14	46.00	-13.86	peak	
5		624.6100	36.27	-6.86	29.41	46.00	-16.59	peak	
6		788.5400	34.46	-3.53	30.93	46.00	-15.07	peak	

515.00

612.00

709.00

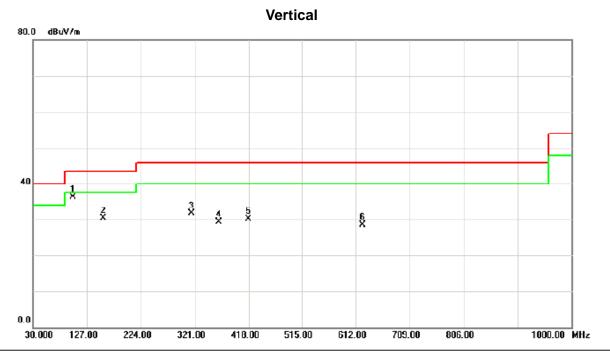
806.00

1000.00 MHz

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Neutron Engineering Inc.=





No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	101.7800	52.33	-15.96	36.37	43.50	-7.13	peak	
2		156.1000	44.00	-13.69	30.31	43.50	-13.19	peak	
3		315.1800	42.98	-11.32	31.66	46.00	-14.34	peak	
4		363.6800	40.23	-11.02	29.21	46.00	-16.79	peak	
5		417.0300	39.64	-9.56	30.08	46.00	-15.92	peak	
6		624.6100	35.33	-6.86	28.47	46.00	-17.53	peak	

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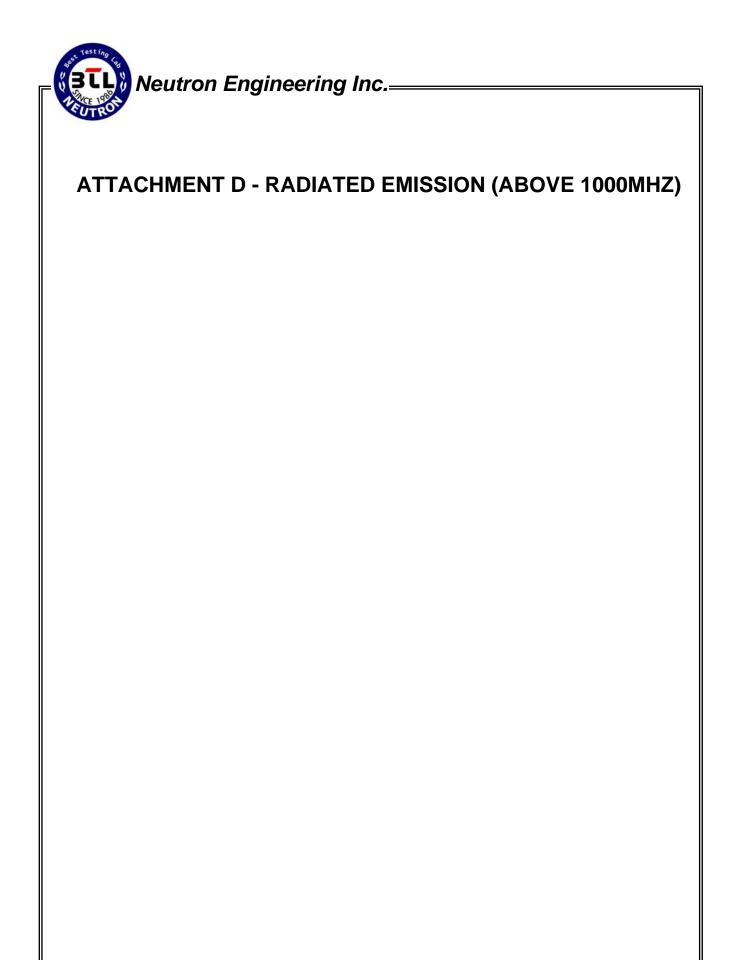
6

Test Mode: TX B MODE CHANNEL 11 Horizontal 80.0 dBuV/m 40 ž 5 X Š X X 2 X 0.0 321.00 515.00 612.00 709.00 1000.00 MHz 30.000 127.00 224.00 418.00 806.00 Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBu∀ dΒ dBuV/m dBuV/m dB Detector Comment 77.5300 26.84 43.97 -17.1340.00 1 -13.16 peak 156.1000 37.18 -13.69 23.49 43.50 -20.01 2 peak -11.81 3 311.3000 45.49 -11.30 34.19 46.00 peak 4 360.7700 38.79 -11.11 27.68 46.00 -18.32 peak 5 468.4400 40.73 -9.44 31.29 46.00 -14.71 peak 30.16 624.6100 37.02 -6.86 46.00

-15.84

peak

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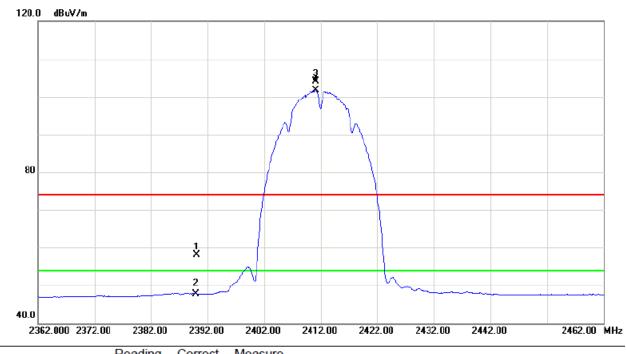


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Neutron Engineering Inc.=

Orthogonal Axis: X
Test Mode: TX B MODE 2412MHz

Vertical



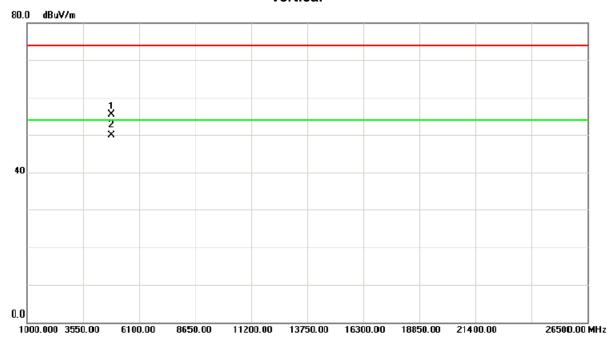
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2	2390.000	24.73	33.38	58.11	74.00	-15.89	peak	
2	2	2390.000	14.41	33.38	47.79	54.00	-6.21	AVG	
3	X 2	2411.100	70.68	33.44	104.12	74.00	30.12	peak	Fundamental frequency, no limit
4	* 2	2411.100	68.22	33.44	101.66	54.00	47.66	AVG	Fundamental frequency, no limit
						·			•

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Orthogonal Axis: X
Test Mode: TX B MODE 2412MHz

Vertical



No.	Mk	c. Freq.			Measure- ment		Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	49.05	6.43	55.48	74.00	-18.52	peak	
2	*	4824.000	43.49	6.43	49.92	54.00	-4.08	AVG	

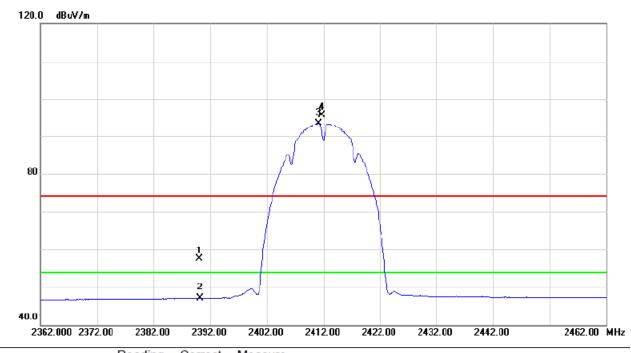
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Orthogonal Axis: X

Test Mode: TX B MODE 2412MHz

Horizontal



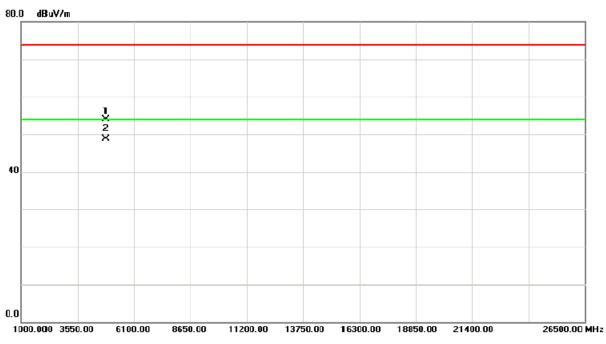
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.18	33.38	57.56	74.00	-16.44	peak	
2		2390.000	13.69	33.38	47.07	54.00	-6.93	AVG	
3	*	2411.100	60.11	33.44	93.55	54.00	39.55	AVG	Fundamental frequency, no limit
4	Χ	2411.600	62.29	33.44	95.73	74.00	21.73	peak	Fundamental frequency, no limit

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Orthogonal Axis: X
Test Mode: TX B MODE 2412MHz

Horizontal



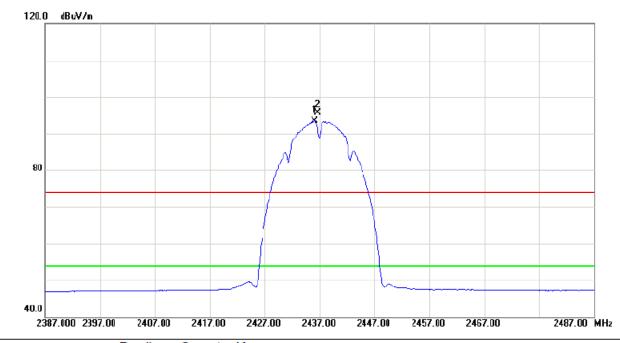
No	. M	1k.	Freq.			Measure- ment		Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		48	24.000	47.65	6.43	54.08	74.00	-19.92	peak		
2	*	48	24.000	42.24	6.43	48.67	54.00	-5.33	AVG		

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Orthogonal Axis:	X
Test Mode:	TX B MODE 2437MHz

Vertical



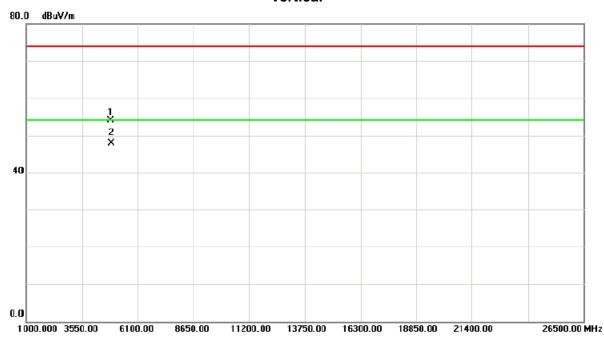
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	*	2436.100	59.99	33.50	93.49	54.00	39.49	AVG Fundamental frequency, no limit
2	X	2436.700	62.15	33.50	95.65	74.00	21.65	peak Fundamental frequency, no limit

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Orthogonal Axis: X
Test Mode: TX B MODE 2437MHz

Vertical



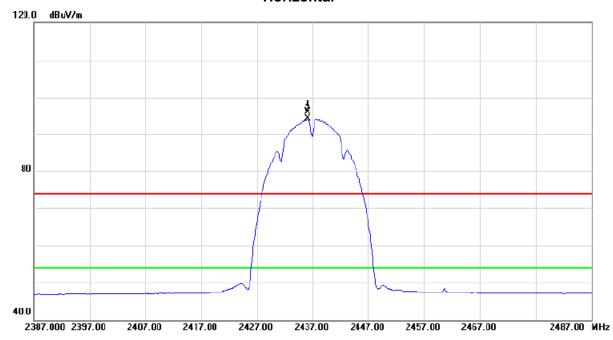
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	47.27	6.58	53.85	74.00	-20.15	peak	
2	*	4874.000	41.36	6.58	47.94	54.00	-6.06	AVG	

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Neutron Engineering Inc.=

Orthogonal Axis: X
Test Mode: TX B MODE 2437MHz

Horizontal



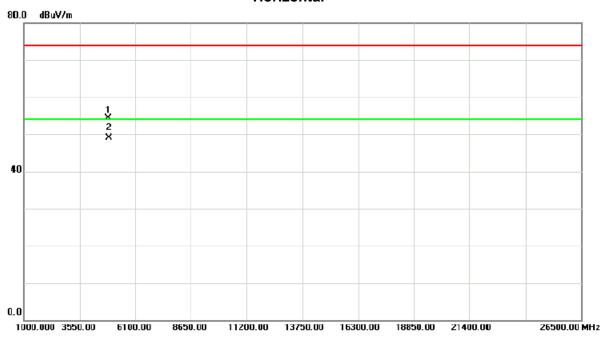
N	lo.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
	1	X	2436.100	62.64	33.50	96.14	74.00	22.14	peak Fundamental frequency, no limit
	2	*	2436.100	60.60	33.50	94.10	54.00	40.10	AVG Fundamental frequency, no limit

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Orthogonal Axis:	X
Test Mode :	TX B MODE 2437MHz

Horizontal



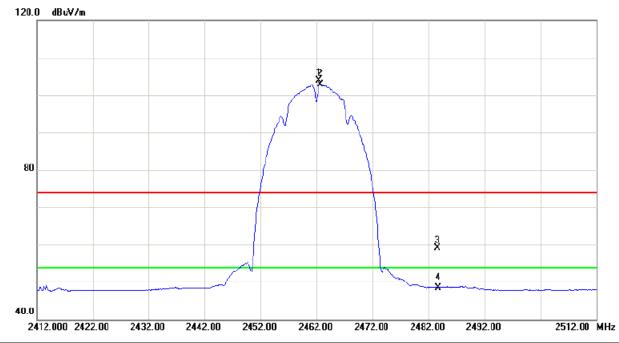
No.	M	c. Fr	eq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		M	Ηz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4874.0	000	47.78	6.58	54.36	74.00	-19.64	peak		
2	*	4874.0	000	42.25	6.58	48.83	54.00	-5.17	AVG		

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Orthogonal Axis: X
Test Mode: TX B MODE 2462MHz

Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	Χ	2462.400	70.27	33.57	103.84	74.00	29.84	peak Fundamental frequency, no limit
2	*	2462.700	69.24	33.57	102.81	54.00	48.81	AVG Fundamental frequency, no limit
3		2483.500	25.45	33.62	59.07	74.00	-14.93	peak
4		2483.500	14.78	33.62	48.40	54.00	-5.60	AVG

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Orthogonal Axis: X
Test Mode: TX B MODE 2462MHz

Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	49.57	6.72	56.29	74.00	-17.71	peak	
2	*	4924.000	43.33	6.72	50.05	54.00	-3.95	AVG	

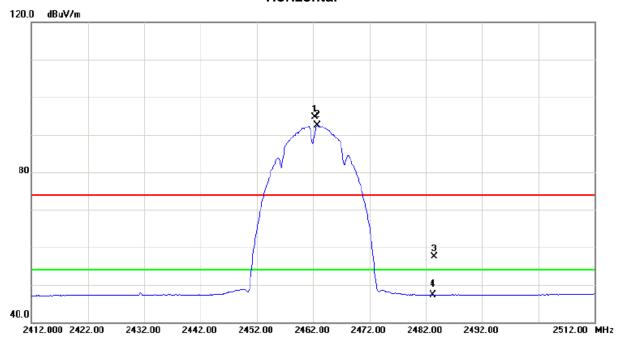
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Neutron Engineering Inc.

Orthogonal Axis: X

Test Mode: TX B MODE 2462MHz

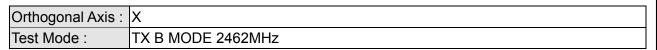
Horizontal

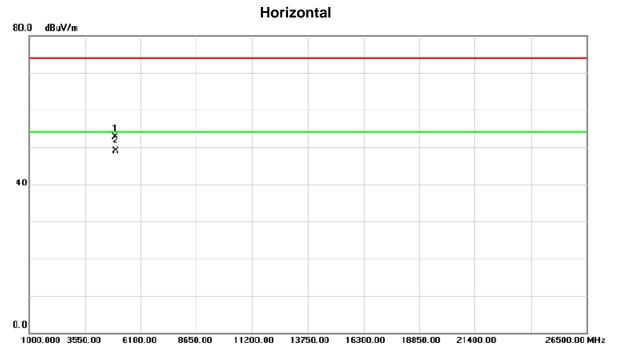


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	X	2462.300	61.14	33.57	94.71	74.00	20.71	peak Fundamental frequency, no limit
2	*	2462.700	58.91	33.57	92.48	54.00	38.48	AVG Fundamental frequency, no limit
3		2483.500	23.91	33.62	57.53	74.00	-16.47	peak
4		2483.500	13.75	33.62	47.37	54.00	-6.63	AVG

Report No.: NEI-FCCP-1-1405C012 Page 54 of 132







_	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1		4924.000	45.96	6.72	52.68	74.00	-21.32	peak		
_	2	×	4924.000	42.17	6.72	48.89	54.00	-5.11	AVG		

Report No.: NEI-FCCP-1-1405C012 Page 55 of 132



40.0

2362.000 2372.00

2382.00

2392.00

2402.00

Orthogonal Axis:	X
Test Mode :	TX G MODE 2412MHz

Vertical 120.0 dBuV/m A X 3 X 80 2 X

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	25.35	33.38	58.73	74.00	-15.27	peak	
2		2390.000	14.43	33.38	47.81	54.00	-6.19	AVG	
3	*	2410.700	61.37	33.44	94.81	54.00	40.81	AVG	Fundamental frequency, no limit
4	Χ	2412.700	69.90	33.44	103.34	74.00	29.34	peak	Fundamental frequency, no limit

2412.00

2422.00

2432.00

2442.00

2462.00 MHz

Report No.: NEI-FCCP-1-1405C012 Page 56 of 132



Orthogonal Axis: X
Test Mode: TX G MODE 2412MHz

Vertical



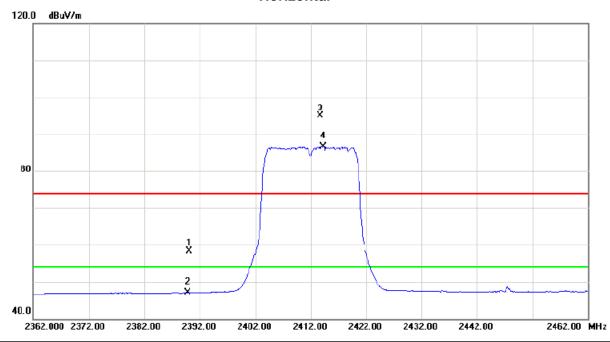
N	lo.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1		4824.000	48.25	6.43	54.68	74.00	-19.32	peak		
	2	*	4824.000	37.98	6.43	44.41	54.00	-9.59	AVG		

Report No.: NEI-FCCP-1-1405C012 Page 57 of 132



Orthogonal Axis: X
Test Mode: TX G MODE 2412MHz

Horizontal



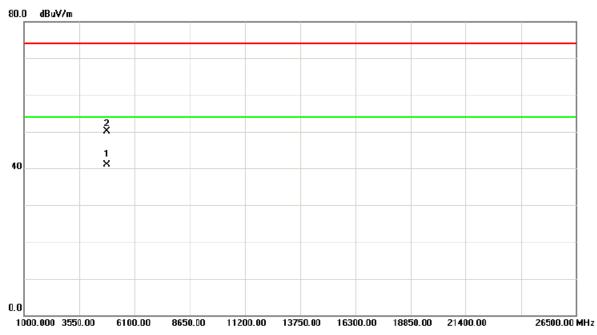
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		2390.000	24.89	33.38	58.27	74.00	-15.73	peak
2		2390.000	13.67	33.38	47.05	54.00	-6.95	ΛVG
3	X	2413.700	61.56	33.44	95.00	74.00	21.00	peak Fundamental frequency, no limit
4	×	2414.200	52.98	33.44	86.42	54.00	32.42	AVG Fundamental frequency, no limit

Report No.: NEI-FCCP-1-1405C012 Page 58 of 132



Orthogonal Axis: X
Test Mode: TX G MODE 2412MHz

Horizontal



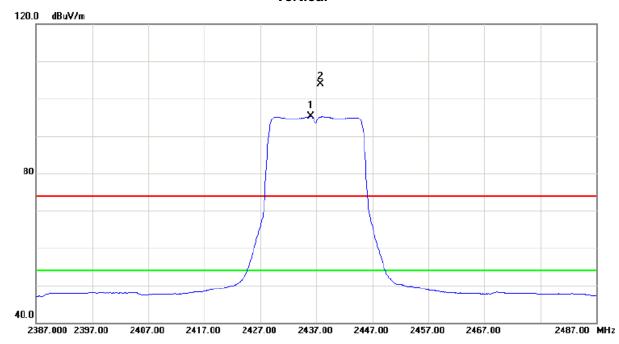
No.	Mk	c. Freq.			Measure- ment		Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.000	34.47	6.43	40.90	54.00	-13.10	AVG	
2		4824.000	43.76	6.43	50.19	74.00	-23.81	peak	

Report No.: NEI-FCCP-1-1405C012 Page 59 of 132

Neutron Engineering Inc.

Orthogonal Axis: X
Test Mode: TX G MODE 2437MHz

Vertical



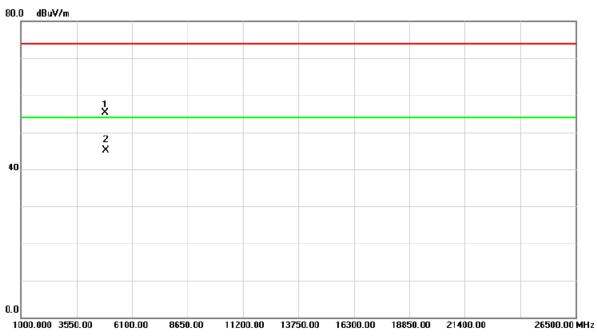
No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2436.000	61.77	33.50	95.27	54.00	41.27	AVG	Fundamental frequency, no limit
2	X	2437.700	70.48	33.50	103.98	74.00	29.98	peak	Fundamental frequency, no limit

Report No.: NEI-FCCP-1-1405C012 Page 60 of 132



Orthogonal Axis: X
Test Mode: TX G MODE 2437MHz

Vertical



N	0.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1		4874.000	48.77	6.58	55.35	74.00	-18.65	peak		
	2	*	4874.000	38.53	6.58	45.11	54.00	-8.89	AVG		

Report No.: NEI-FCCP-1-1405C012 Page 61 of 132



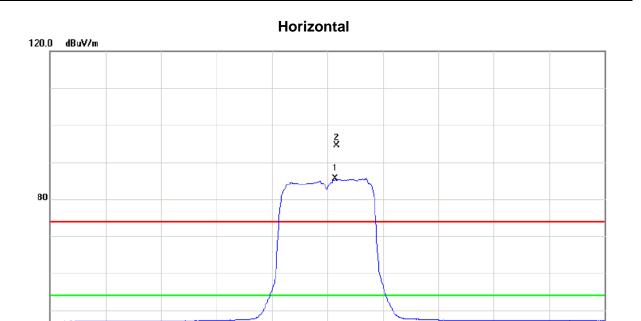
40.0

2387.000 2397.00

2407.00

2417.00

Orthogonal Axis: X
Test Mode: TX G MODE 2437MHz



No.	Mk	c. Freq.	_	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2438.200	52.04	33.50	85.54	54.00	31.54	AVG	Fundamental frequency, no limit
2	X	2438.700	61.04	33.50	94.54	74.00	20.54	peak	Fundamental frequency, no limit

2437.00

2447.00

2457.00

2467.00

2487.00 MHz

2427.00

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0.0

Orthogonal Axis: X
Test Mode: TX G MODE 2437MHz

	100	0.000 3550.00	6100.00	8650.00	11200.00	13750.00	16300.	.00 18850.0	00 21400.00	26500.00 MHz
No.	Mk.	Freq.		Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4874.000	44.72	6.58	51.30	74.00	-22.70	peak		
2	*	4874.000	33.56	6.58	40.14	54.00	-13.86	AVG		

Report No.: NEI-FCCP-1-1405C012 Page 63 of 132

Neutron Engineering Inc.=

40.0

2412.000 2422.00

2432.00

2442.00

2452.00

Orthogonal Axis: X
Test Mode: TX G MODE 2462MHz

Vertical 120.0 dBuV/m \$\frac{2}{x}\$ 80 80

No. N	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1 *	1	2463.100	62.51	33.57	96.08	54.00	42.08	AVG Fundamental frequency, no limit
2)	X 2	2463.700	71.30	33.57	104.87	74.00	30.87	peak Fundamental frequency, no limit
3	2	2483.500	24.11	33.62	57.73	74.00	-16.27	peak
4	2	2483.500	15.03	33.62	48.65	54.00	-5.35	AVG

2462.00

2472.00

2482.00

2492.00

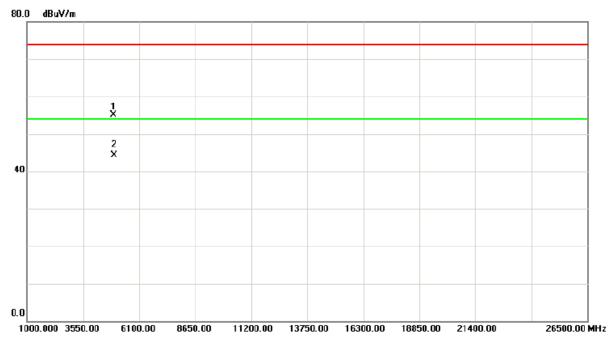
2512.00 MHz

Report No.: NEI-FCCP-1-1405C012 Page 64 of 132



Orthogonal Axis: X
Test Mode: TX G MODE 2462MHz

Vertical



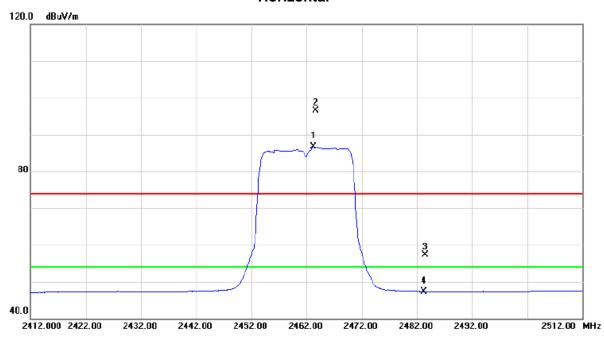
No.	M	K.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		492	24.000	48.45	6.72	55.17	74.00	-18.83	peak		
2	*	492	24.000	37.56	6.72	44.28	54.00	-9.72	AVG		

Report No.: NEI-FCCP-1-1405C012 Page 65 of 132



Orthogonal Axis: X
Test Mode: TX G MODE 2462MHz

Horizontal



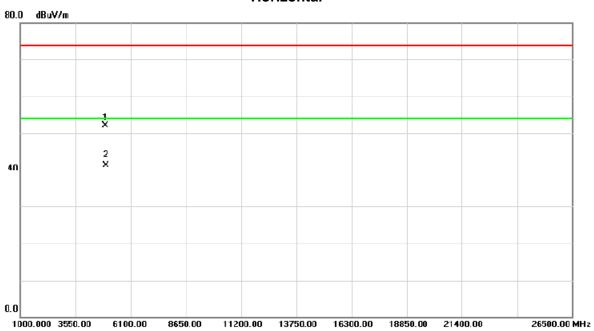
No. N	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1 *	2	2463.100	53.10	33.57	86.67	54.00	32.67	AVG Fundamental frequency, no limit
2)	X 2	2463.700	62.93	33.57	96.50	74.00	22.50	peak Fundamental frequency, no limit
3	2	2483.500	23.63	33.62	57.25	74.00	-16.75	peak
4	2	2483.500	13.73	33.62	47.35	54.00	-6.65	AVG

Report No.: NEI-FCCP-1-1405C012 Page 66 of 132



Orthogonal Axis: X
Test Mode: TX G MODE 2462MHz

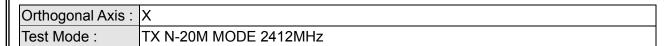
Horizontal

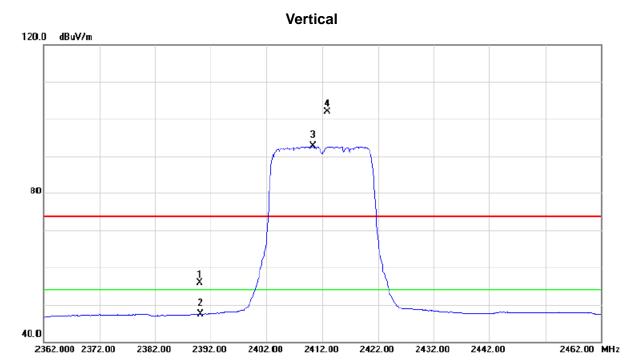


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4924.000	45.32	6.72	52.04	74.00	-21.96	peak		
2	×	4924.000	34.52	6.72	41.24	54.00	-12./6	AVG		

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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	22.50	33.38	55.88	74.00	-18.12	peak	
2		2390.000	14.13	33.38	47.51	54.00	-6.49	AVG	
3	*	2410.300	59.19	33.44	92.63	54.00	38.63	AVG	Fundamental frequency, no limit
4	X	2412.800	68.46	33.44	101.90	74.00	27.90	peak	Fundamental frequency, no limit

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Orthogonal Axis: X
Test Mode: TX N-20M MODE 2412MHz

Vertical



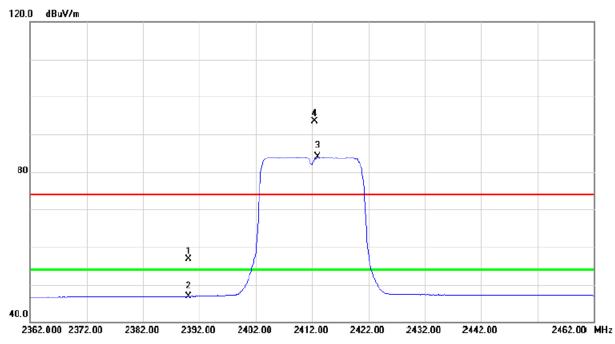
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	46.54	6.43	52.97	74.00	-21.03	peak	
2	*	4824.000	35.47	6.43	41.90	54.00	-12.10	AVG	

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Neutron Engineering Inc.=

Orthogonal Axis: X
Test Mode: TX N-20M MODE 2412MHz

Horizontal



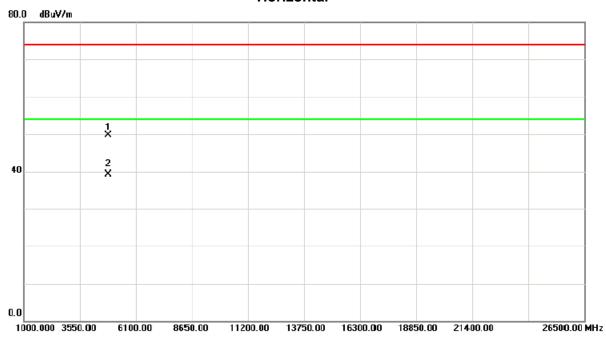
No	o. MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	d₿	dBuV/m	dBuV/m	dB	Detector	Comment
	1	2390.000	23.23	33.38	56.61	74.00	-17.39	peak	
	2	2390.000	13.60	33.38	46.98	54.00	-7.02	AVG	
- ;	3 *	2412.800	50.66	33.44	84.10	54.00	30.10	AVG	Fundamental frequency, no limit
-	4 X	2412.400	60.02	33.44	93.46	74.00	19.46	peak	Fundamental frequency, no limit

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Orthogonal Axis: X
Test Mode: TX N-20M MODE 2412MHz

Horizontal



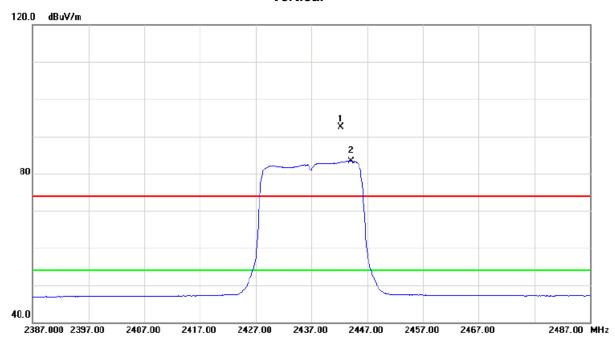
No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	43.36	6.43	49.79	74.00	-24.21	peak	
2	*	4824.000	32.82	6.43	39.25	54.00	-14.75	AVG	

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Neutron Engineering Inc.=

Orthogonal Axis: X
Test Mode: TX N-20M MODE 2437MHz

Vertical



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1 X :	2442.200	58.91	33.51	92.42	74.00	18.42	peak Fundamental frequency, no limit
2 * :	2444.100	49.84	33.52	83.36	54.00	29.36	AVG Fundamental frequency, no limit

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Orthogonal Axis: X
Test Mode: TX N-20M MODE 2437MHz

Vertical



No.	Mk	c. Freq.			Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4874.000			55.64	74.00	-18.36	peak		
2	*	4874.000	38.85	6.58	45.43	54.00	-8.57	AVG		

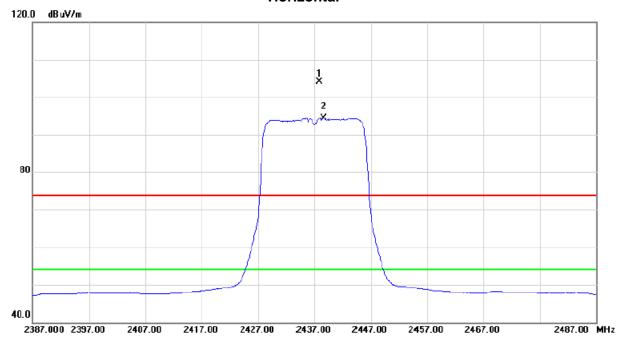
Report No.: NEI-FCCP-1-1405C012 Page 73 of 132

Neutron Engineering Inc.=

Orthogonal Axis: X

Test Mode: TX N-20M MODE 2437MHz

Horizontal



No	. 1	Иk.	Freq.	Reading Level		Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1)	X 24	137.800	70.60	33.50	104.10	74.00	30.10	peak	Fundamental frequency, no limit
2	*	24	138.400	61.07	33.50	94.57	54.00	40.57	AVG	Fundamental frequency, no limit

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Orthogonal Axis: X
Test Mode: TX N-20M MODE 2437MHz

Horizontal



No.	Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	43.46	6.58	50.04	74.00	-23.96	peak	
2	*	4874.000	33.57	6.58	40.15	54.00	-13.85	AVG	

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Neutron Engineering Inc.=

Orthogonal Axis: X
Test Mode: TX N-20M MODE 2462MHz

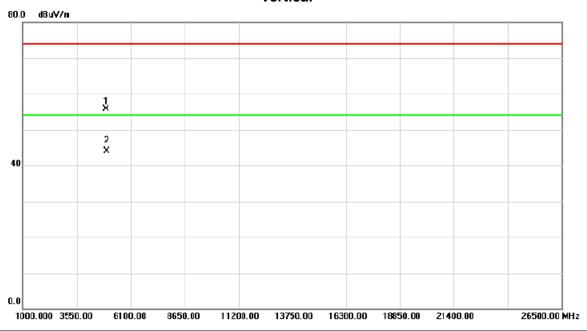
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	X	2462.900	70.53	33.57	104.10	74.00	30.10	peak Fundamental frequency, no limit
2	*	2463.100	61.36	33.57	94.93	54.00	40.93	AVG Fundamental frequency, no limit
3		2483.500	25.18	33.62	58.80	74.00	-15.20	peak
4		2483.500	14.83	33.62	48.45	54.00	-5.55	AVG

Report No.: NEI-FCCP-1-1405C012 Page 76 of 132



Orthogonal Axis: X
Test Mode: TX N-20M MODE 2462MHz

Vertical



	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1		1921.000	48.95	6.72	55.67	71.00	18.33	peak	
_	2	*	4924 000	37 32	6 72	44 04	54 00	-9 96	AVG	

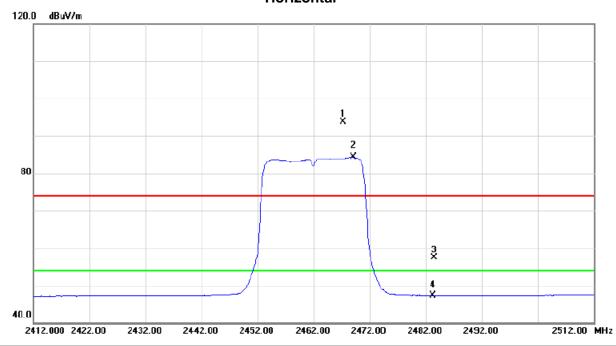
Report No.: NEI-FCCP-1-1405C012 Page 77 of 132

Neutron Engineering Inc.

Orthogonal Axis: X

Test Mode: TX N-20M MODE 2462MHz

Horizontal



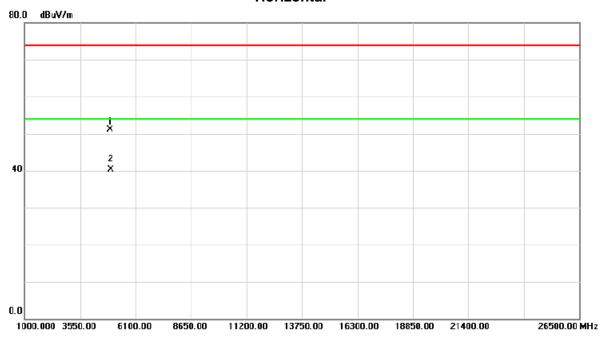
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2467.300	60.16	33.57	93.73	74.00	19.73	peak	Fundamental frequency, no limit
2	*	2469.300	50.98	33.59	84.57	54.00	30.57	AVG	Fundamental frequency, no limit
3		2483.500	23.94	33.62	57.56	74.00	-16.44	peak	
4		2483.500	13.72	33.62	47.34	54.00	-6.66	AVG	

Report No.: NEI-FCCP-1-1405C012 Page 78 of 132



Orthogonal Axis: X
Test Mode: TX N-20M MODE 2462MHz

Horizontal



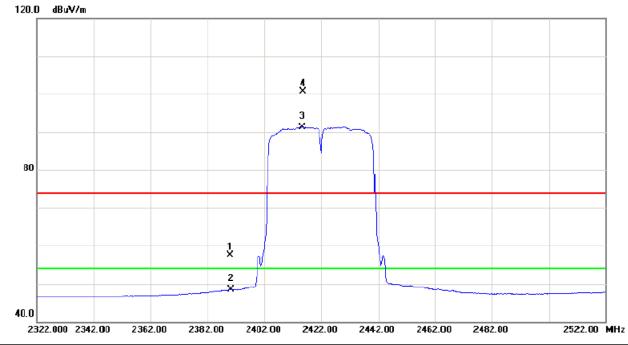
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4924.000	44.37	6.72	51.09	74.00	-22.91	peak		
2	*	4924.000	33.49	6.72	40.21	54.00	-13.79	AVG		

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Neutron Engineering Inc.=

Orthogonal Axis: X
Test Mode: TX N-40M MODE 2422MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.18	33.38	57.56	74.00	-16.44	peak	
2		2390.000	15.09	33.38	48.47	54.00	-5.53	AVG	
3	*	2415.400	57.88	33.44	91.32	54.00	37.32	AVG	Fundamental frequency, no limit
4	X	2415.800	67.30	33.45	100.75	74.00	26.75	peak	Fundamental frequency, no limit

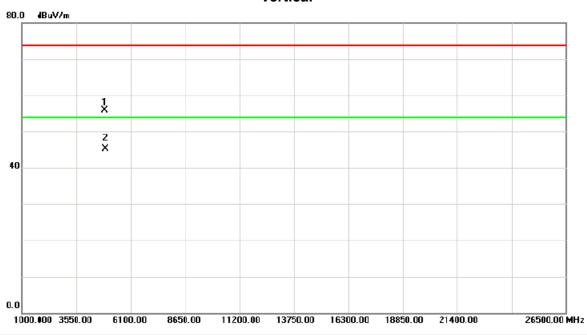
Report No.: NEI-FCCP-1-1405C012 Page 80 of 132



Orthogonal Axis: X

Test Mode: TX N-40M MODE 2422MHz

Vertical



	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over		
_			MH∠	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	4	4844.000	49.35	6.50	55.85	74.00	-18.15	peak	
	2	* 4	4844.000	38.83	6.50	45.33	54.00	-8.67	AVG	

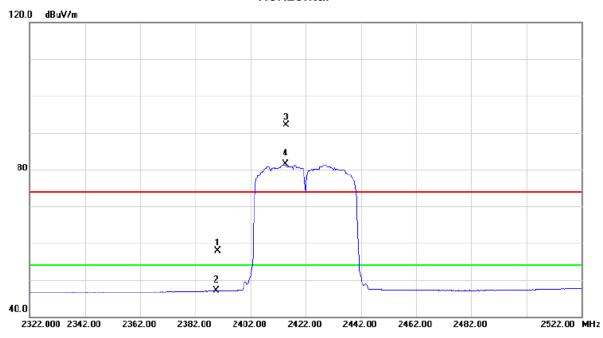
Report No.: NEI-FCCP-1-1405C012 Page 81 of 132



Orthogonal Axis: X

Test Mode: TX N-40M MODE 2422MHz

Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.58	33.38	57.96	74.00	-16.04	peak	
2		2390.000	13.65	33.38	47.03	54.00	-6.97	AVG	
3	Χ	2414.800	58.70	33.44	92.14	74.00	18.14	peak	Fundamental frequency, no limit
4	*	2414.600	48.07	33.44	81.51	54.00	27.51	AVG	Fundamental frequency, no limit

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Orthogonal Axis: X
Test Mode: TX N-40M MODE 2422MHz

Horizontal



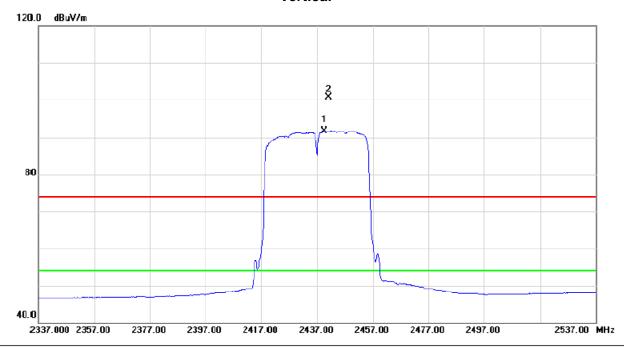
No.	Mk	c. F	req.			Measure- ment	Limit	Over			
		N	ИHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4844.	.000	43.12	6.50	49.62	74.00	-24.38	peak		
2	*	4844.	.000	32.09	6.50	38.59	54.00	-15.41	AVG		

Report No.: NEI-FCCP-1-1405C012 Page 83 of 132



Orthogonal Axis:	X
Test Mode :	TX N-40M MODE 2437MHz

Vertical



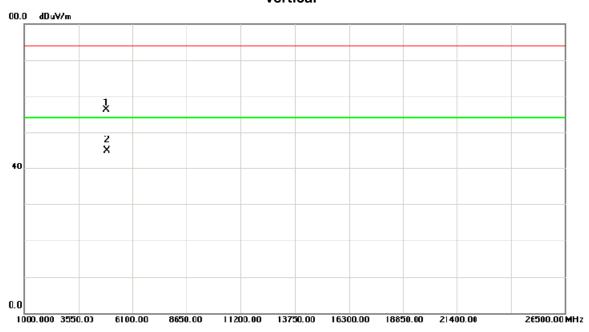
N	0.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	2439.400	58.17	33.51	91.68	54.00	37.68	AVG	Fundamental frequency, no limit
	2	Х	2441.200	67.21	33.51	100.72	74.00	26.72	peak	Fundamental frequency, no limit

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Orthogonal Axis: X
Test Mode: TX N-40M MODE 2437MHz

Vertical



No.	Mk	k. Freq.			Measure- ment		Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	49.57	6.58	56.15	74.00	-17.85	peak	
2	*	4874.000	38.33	6.58	44.91	54.00	-9.09	AVG	

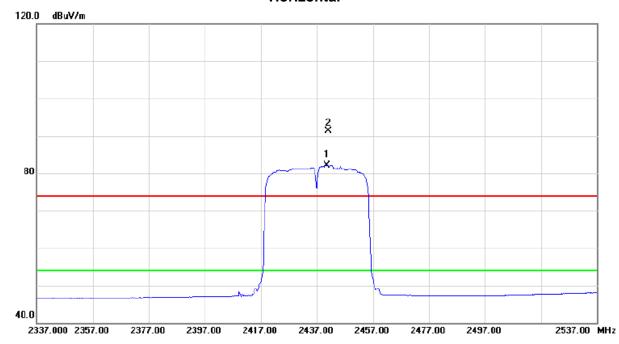
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Neutron Engineering Inc.=

Orthogonal Axis: X

Test Mode: TX N-40M MODE 2437MHz

Horizontal

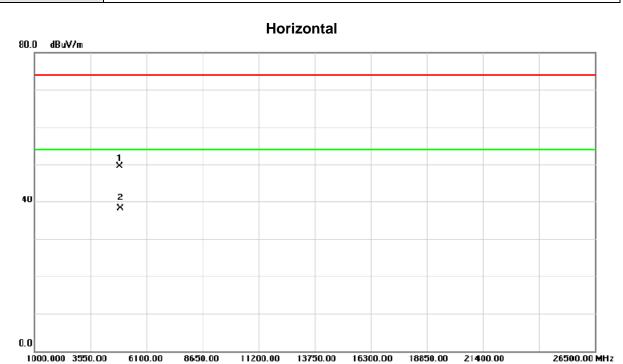


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2440.600	48.65	33.51	82.16	54.00	28.16	AVG	Fundamental frequency, no limit
2	X	2441.000	57.75	33.51	91.26	74.00	17.26	peak	Fundamental frequency, no limit

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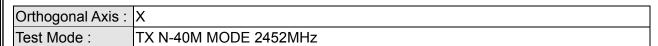
Orthogonal Axis: X
Test Mode: TX N-40M MODE 2437MHz

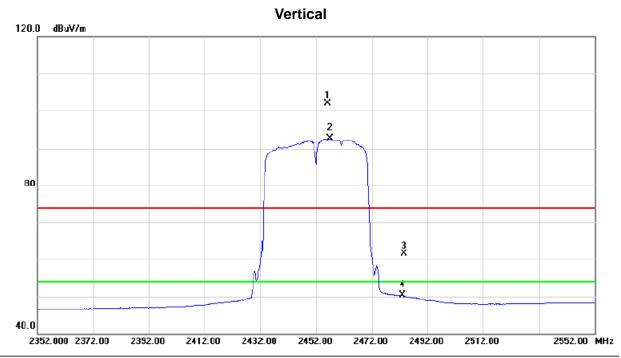


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4874.000	42.85	6.58	49.43	74.00	-24.57	peak		
2	*	4874.000	31.59	6.58	38.17	54.00	-15.83	AVG		

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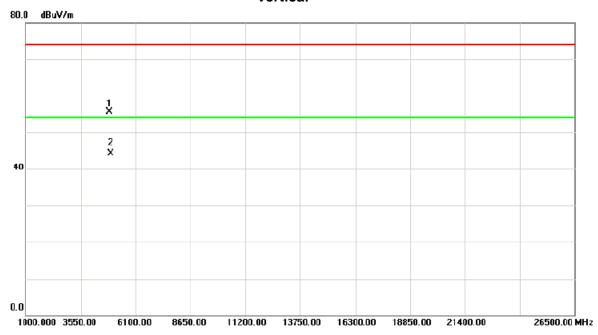
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Χ	2456.200	68.43	33.54	101.97	74.00	27.97	peak	Fundamental frequency, no limit
2	*	2456.800	58.91	33.56	92.47	54.00	38.47	AVG	Fundamental frequency, no limit
3		2483.500	27.81	33.62	61.43	74.00	-12.57	peak	
4		2483.500	16.64	33.62	50.26	54.00	-3.74	AVG	

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Orthogonal Axis: X
Test Mode: TX N-40M MODE 2452MHz

Vertical



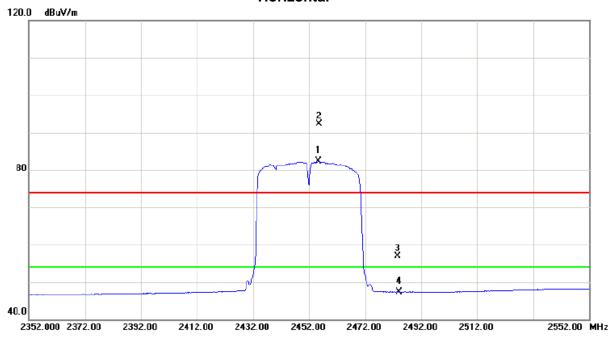
MHz dBuV dB dBuV/m dB Detector Comment 1 4904.000 48.86 6.67 55.53 74.00 -18.47 peak 2 * 4904.000 37.54 6.67 44.21 54.00 -9.79 AVG		No. I	Mk.	Freq.			Measure- ment	Limit	Over			
· · · · · · · · · · · · · · · · · · ·				MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
2 * 4904.000 37.54 6.67 44.21 54.00 -9.79 AVG	-	1	4	904.000	48.86	6.67	55.53	74.00	-18.47	peak		
		2 '	* 4	904.000	37.54	6.67	44.21	54.00	-9.79	AVG		

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Neutron Engineering Inc.=

Orthogonal Axis: X
Test Mode: TX N-40M MODE 2452MHz

Horizontal



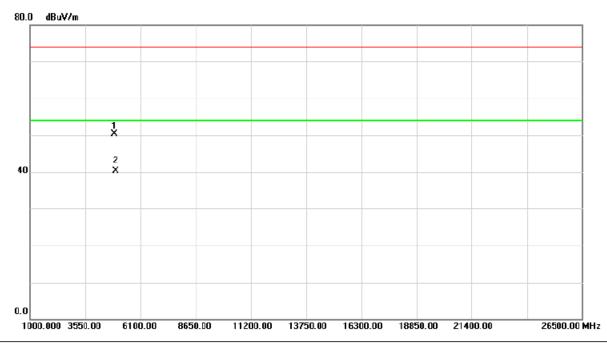
	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
	1	*	2455.400	48.79	33.54	82.33	54.00	28.33	AVG Fundamental frequency, no limit
Ī	2	Χ	2455.600	58.78	33.54	92.32	74.00	18.32	peak Fundamental frequency, no limit
	3		2483.500	23.28	33.62	56.90	74.00	-17.10	peak
-	4		2483.500	13.75	33.62	47.37	54.00	-6.63	AVG
_									

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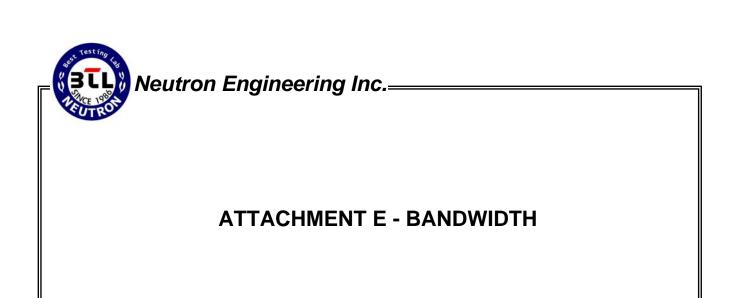
Orthogonal Axis: X
Test Mode: TX N-40M MODE 2452MHz

Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	43.62	6.67	50.29	74.00	-23.71	peak	
2	*	4904.000	33.58	6.67	40.25	54.00	-13.75	AVG	

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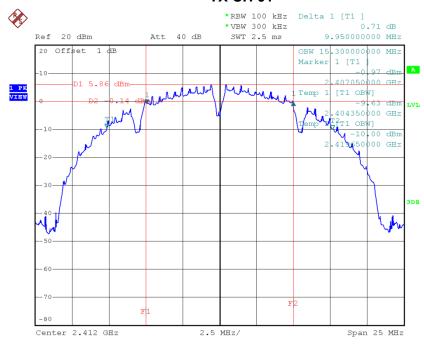


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Test Mode: TX B Mode_CH01/06/11

TX CH 01

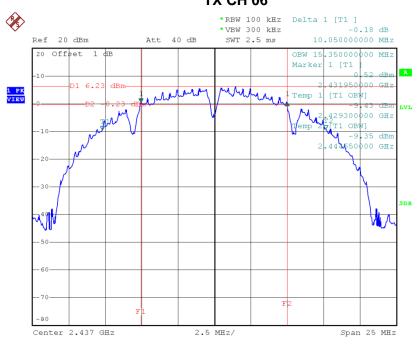


Date: 21.MAY.2014 20:02:33

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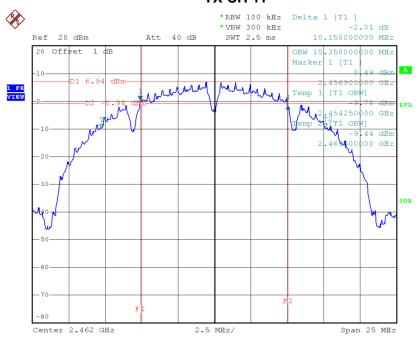
Neutron Engineering Inc.

TX CH 06



Date: 21.MAY.2014 20:03:59

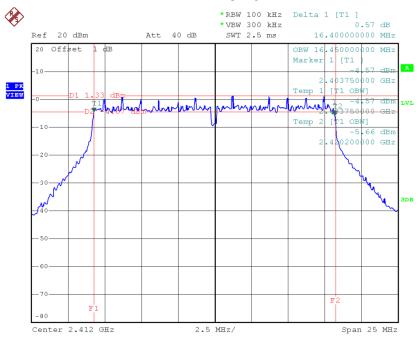
TX CH 11



Date: 21.MAY.2014 20:04:59

Test Mode: TX G Mode_CH01/06/11

TX CH 01

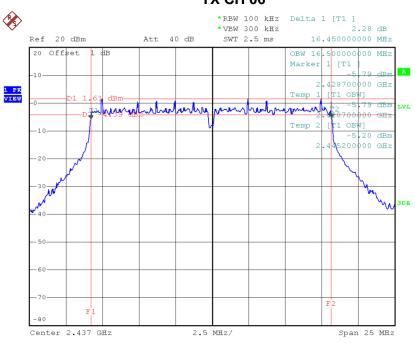


Date: 21.MAY.2014 20:00:00

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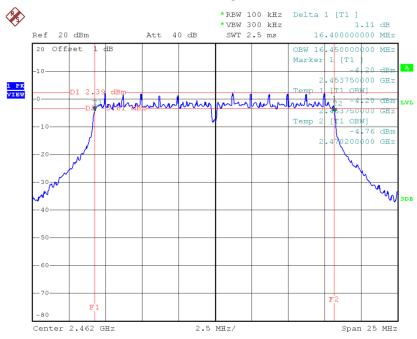
Neutron Engineering Inc.





Date: 21.MAY.2014 19:58:33

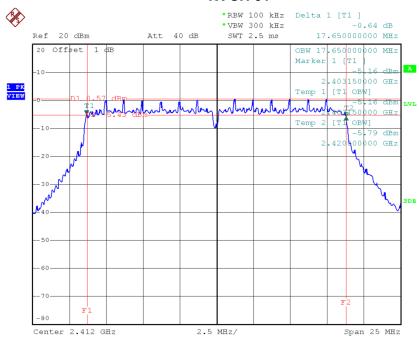
TX CH 11



Date: 21.MAY.2014 19:57:11

Test Mode: TX N-20MHz Mode_CH01/06/11

TX CH 01

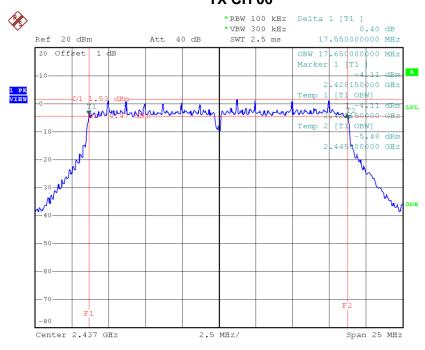


Date: 21.MAY.2014 19:52:33

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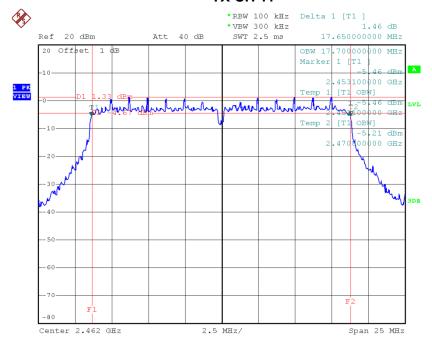
Neutron Engineering Inc.

TX CH 06



Date: 21.MAY.2014 19:54:07

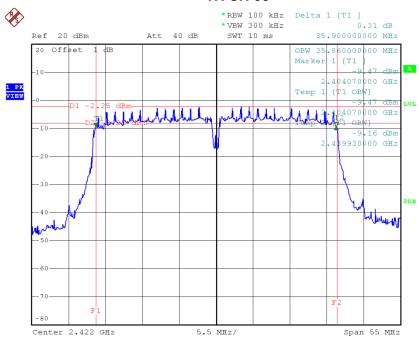
TX CH 11



Date: 21.MAY.2014 19:55:53

Test Mode: TX N-40MHz Mode_CH03/06/09

TX CH 03

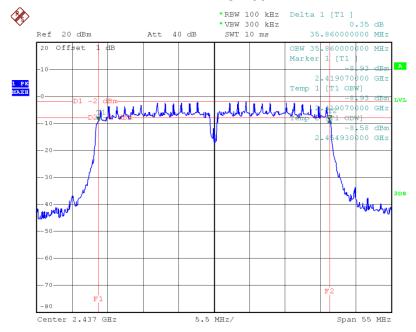


Date: 21.MAY.2014 19:50:45

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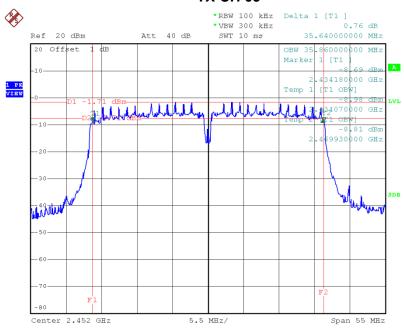
Neutron Engineering Inc.

TX CH 06



Date: 21.MAY.2014 19:48:53

TX CH 09



Date: 21.MAY.2014 19:47:07

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