Radio Test Report

Report No.:STS2312301W01

Issued for

Buddi Limited

Talbot House 17 Church Street Rickmansworth, WD3 1DE United Kingdom

Product Name: Clip

Brand Name: buddi

Model Name: 3530003

Series Model(s): Click

FCC ID: ZDL353C

Test Standards: FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.



TEST REPORT

Applicant's Name	Buddi Limited
Address:	Talbot House 17 Church Street Rickmansworth, WD3 1DE United Kingdom
Manufacturer's Name:	Buddi Limited
Address:	Talbot House 17 Church Street Rickmansworth, WD3 1DE United Kingdom
Product Description	
Product Name:	Clip
Brand Name:	buddi
Model Name	. 3530003
Series Model(s):	Click
Test Standards	FCC Part 15.247
Test Procedure:	ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

Date of Test	
Date of receipt of test item:	01 Dec. 2023
Date (s) of performance of tests:	01 Dec. 2023 ~ 07 Dec. 2023
Date of Issue	07 Dec. 2023
Test Result:	Pass

1

Testing Engineer

Jann Bu

(Aaron Bu)

Technical Manager

Authorized Signatory :

(Chris Chen)

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(Bovey Yang)



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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	07 Dec. 2023	STS2312301W01	ALL	Initial Issue
			9	9





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)(3)	Output Power	PASS	
15.209	Radiated Spurious Emission	PASS	
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	-
15.247 (e)	Power Spectral Density	PASS	
15.205	Restricted Band Edge Emission	PASS	
Part 15.247(d)/ part 15.209(a)	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

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FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

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 %.

No.	Item	Uncertainty
1	RF output power, conducted	±1.197dB
2	Unwanted Emissions, conducted	±2.896dB
3	All emissions, radiated 9K-30MHz	±3.84dB
4	All emissions, radiated 30M-1GHz	±3.94dB
5	All emissions, radiated 1G-6GHz	±4.59dB
6	All emissions, radiated>6G	±5.22dB
7	Conducted Emission (9KHz-150KHz)	±2.14dB
8	Conducted Emission (150KHz-30MHz)	±2.54dB
9	Power Spectral Density, Conducted	±1.25dB
10	Occupied Channel Bandwidth	±3.5%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Clip			
Brand Name	buddi	6 6		
Model Name	3530003			
Series Model(s)	Click			
Model Difference	Only the model name difference.			
Product Description	The EUT is a Clip Operation	802.11b/g/n 20: 2412~2462 MHz		
	Frequency: Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM		
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps		
	Number of Channel:	802.11b/g/n20: 11CH		
	Antenna Type:	SMD		
	Antenna Gain (dBi):	3.5dBi		
Channel List	Please refer to the Note 3.			
Adapter	Charging head: Input: 100-240V~ 50/60Hz 0.3A Output: DC 5V 1.2A Two charging methods: Model: 3630000 Input: DC 5V, 2000mA Output: 5V, 800mA Model: 3510001 Input: 5V, 1000mA Output: 5V, 800mA			
Battery	Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 750mAh			
Rating	Input: DC 5V, 800m	Input: DC 5V, 800mA		
Hardware version number	V14.0			
Software version number	1.41.2			
Connecting I/O Port(s)	Please refer to the Note 1.			



Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

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	802.11b/g/n(20MHz)		
Channel	Frequency		
01	2412		
02	2417		
03	2422		
04	2427		
05	2432		
06	2437		
07	2442		
08	2447	100	
09	2452	1	
10	2457		
11	2462		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, themiddle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)		
Channel	Freq.(MHz)	
01	2412	
06	2437	
11	2462	



2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V /60Hz is shown in the report.
- (3) The battery is fully-charged during the radited and RF conducted test.

2.3 TEST SOFTWARE AND POWER LEVEL

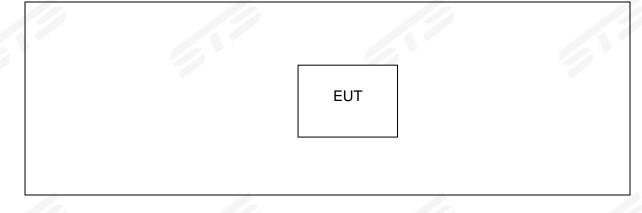
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
		802.11b	3.5	Default	The EUT has signal
 WIFI(2.4G)	2.4G WIFI	802.11g		Default	transmission when it is
		802.11n(HT20)	EV.	Default	powered on



2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A
	2	1			1

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A
	9				

Note:

- (1) For detachable type I/O cable should be specified the length in cm in ^r Length ^a column.
- (2) "YES" is means "with core"; "NO" is means "without core".



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

	RF Radia	tion Test Equipme	nt		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2023.03.03	2024.03.02
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2023.02.28	2024.02.27
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2023.09.26	2024.09.25
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2023.03.06	2024.03.05
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2024.02.27
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2023.09.26	2024.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFENG	DPS-305AF	17064939	2023.09.26	2024.09.25
Test SW	EZ-EMC		Ver.STSLAB-03	A1 RE	×
	RFC	Connected Test			
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2023.03.01	2024.02.28
Power Sensor	Keysight	U2021XA	MY55520005	2023.09.26	2024.09.25
Temperature & Humidity	SW-108	SuWei	N/A	2023.03.03	2024.03.02
Test SW	MW		MTS 8310_2.0	0.0.0	



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)	
FREQUENCT (MIDZ)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	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.

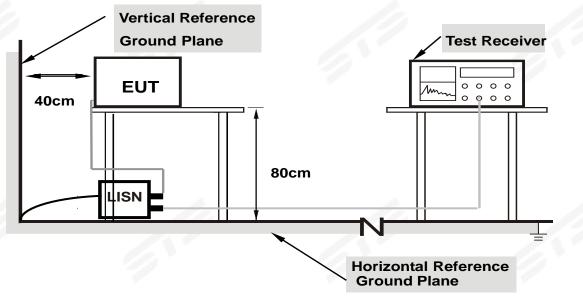
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 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 is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 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 cm from other units and other metal planes support units.

3.1.4EUT 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.

3.1.5 TEST RESULT

Note: Not Applicable.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

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

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			
-	•	•	•



For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
	200Hz (From 9kHz to 0.15MHz)/
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);
band)	200Hz (From 9kHz to 0.15MHz)/
	9KHz (From 0.15MHz to 30MHz)

1.		
Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/QP	
Start Frequency	30 MHz(Peak/QP)	
Stop Frequency	1000 MHz (Peak/QP)	
RB / VB (emission in restricted	120 KHz / 300 KHz	
band)	120 KHZ / 300 KHZ	

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/AV	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)	
band)	1 MHz/1/T MHz(AVG)	
or Restricted band		

	Spectrum Parameter	Setting
	Detector	Peak/AV
ģ	Start/Stop Eroguapay	Lower Band Edge: 2310 to 2430 MHz
	Start/Stop Frequency	Upper Band Edge: 2445 to 2500 MHz
	RB / VB	1 MHz / 3 MHz(Peak)
		1 MHz/1/T MHz(AVG)



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

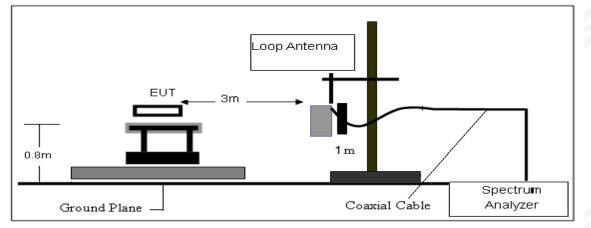
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization 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 QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

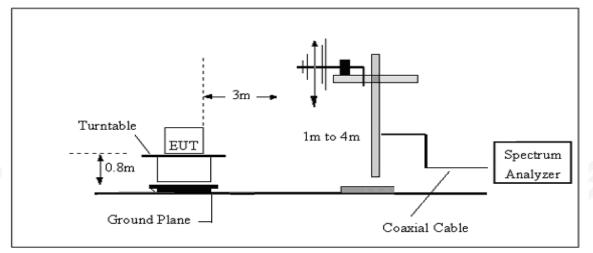


3.2.3 TEST SETUP

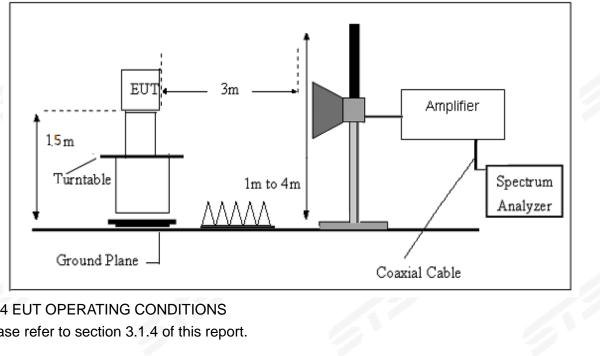
(A) Radiated Emission Test-Up Frequency Below 30MHz

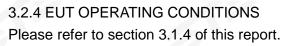


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz







3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AGWhere FS = Field Strength CL = Cable Attenuation Factor (Cable Loss) RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG











3.2.6 TEST RESULT

9KHz-30MHz

Temperature:	23.1(C)	Relative Humidtity:	60%RH
Test Voltage:	DC 3.7V	Polarization:	- 9
Test Mode:	TX Mode	~	

Freq.	Reading	Limit	Margin	State	Test	
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Result	
		+			PASS	
	-	-	-		PASS	

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

permissible value has no need to be reported. Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



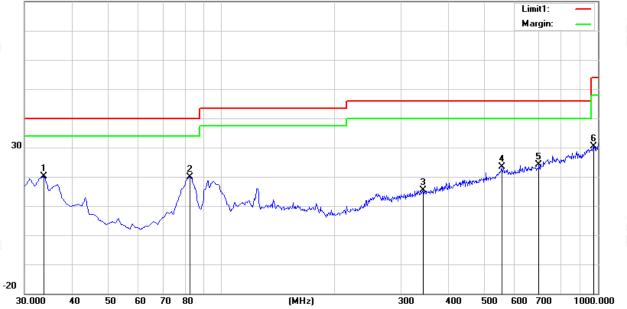
(30MHz - 1000MHz)

Temperature:	23.1(C)	Relative Humidtity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 4 worst r	node)	6

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	34.98	-14.80	20.18	40.00	-19.82	peak
2	82.3800	42.66	-22.68	19.98	40.00	-20.02	peak
3	343.3100	28.74	-13.29	15.45	46.00	-30.55	peak
4	555.7400	29.00	-5.60	23.40	46.00	-22.60	peak
5	699.3000	28.38	-4.18	24.20	46.00	-21.80	peak
6	974.7800	28.17	2.32	30.49	54.00	-23.51	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor)–Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.
- 4. The Fundamental Frequency is filtered by the filter(High-Pass Filte: XBLBQ-GTA18) 80.0 dBuV/m



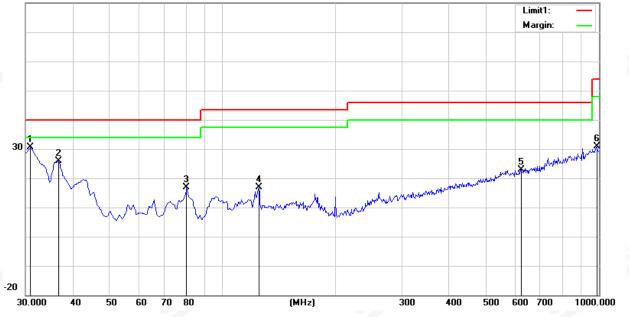


Temperature:	23.1(C)	Relative Humidtity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 4 worst r	node)	19

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	44.00	-13.35	30.65	40.00	-9.35	peak
2	36.7900	42.18	-16.39	25.79	40.00	-14.21	peak
3	80.4400	39.70	-22.93	16.77	40.00	-23.23	peak
4	125.0600	35.09	-18.22	16.87	43.50	-26.63	peak
5	622.6700	28.27	-5.37	22.90	46.00	-23.10	peak
6	986.4200	28.55	2.27	30.82	54.00	-23.18	peak

Remark:.

- 1. Margin = Result (Result = Reading + Factor)–Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.
- 4. The Fundamental Frequency is filtered by the filter(High-Pass Filte: XBLBQ-GTA18)





(1000MHz-25GHz) Spurious emission Requirements

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
		•		Low Cha	nnel (802.11n4	0/2422 MHz)		•	1	<u>.</u>
3264.88	61.41	44.70	6.70	28.20	-9.80	51.61	74.00	-22.39	PK	Vertical
3264.88	50.45	44.70	6.70	28.20	-9.80	40.65	54.00	-13.35	AV	Vertical
3264.57	61.92	44.70	6.70	28.20	-9.80	52.12	74.00	-21.88	PK	Horizonta
3264.57	50.57	44.70	6.70	28.20	-9.80	40.77	54.00	-13.23	AV	Horizonta
4824.55	58.26	44.20	9.04	31.60	-3.56	54.70	74.00	-19.30	PK	Vertical
4824.55	49.48	44.20	9.04	31.60	-3.56	45.92	54.00	-8.08	AV	Vertical
4824.44	58.31	44.20	9.04	31.60	-3.56	54.75	74.00	-19.25	PK	Horizontal
4824.44	50.38	44.20	9.04	31.60	-3.56	46.82	54.00	-7.18	AV	Horizontal
5359.64	48.25	44.20	9.86	32.00	-2.34	45.91	74.00	-28.09	PK	Vertical
5359.64	39.76	44.20	9.86	32.00	-2.34	37.42	54.00	-16.58	AV	Vertical
5359.79	47.14	44.20	9.86	32.00	-2.34	44.80	74.00	-29.20	PK	Horizonta
5359.79	38.04	44.20	9.86	32.00	-2.34	35.70	54.00	-18.30	AV	Horizonta
7235.84	54.09	43.50	11.40	35.50	3.40	57.49	74.00	-16.51	PK	Vertical
7235.84	44.64	43.50	11.40	35.50	3.40	48.04	54.00	-5.96	AV	Vertical
7235.84	54.42	43.50	11.40	35.50	3.40	57.82	74.00	-16.18	PK	Horizonta
7235.93	43.87	43.50	11.40	35.50	3.40	47.27	54.00	-6.73	AV	Horizonta
			1	Middle C	hannel (802.11	g/2437 MHz)	I			
3264.89	61.88	44.70	6.70	28.20	-9.80	52.08	74.00	-21.92	PK	Vertical
3264.89	50.43	44.70	6.70	28.20	-9.80	40.63	54.00	-13.37	AV	Vertical
3264.67	60.86	44.70	6.70	28.20	-9.80	51.06	74.00	-22.94	PK	Horizonta
3264.67	50.54	44.70	6.70	28.20	-9.80	40.74	54.00	-13.26	AV	Horizonta
4874.28	59.15	44.20	9.04	31.60	-3.56	55.59	74.00	-18.41	PK	Vertical
4874.28	50.13	44.20	9.04	31.60	-3.56	46.57	54.00	-7.43	AV	Vertical
4874.36	58.95	44.20	9.04	31.60	-3.56	55.39	74.00	-18.61	PK	Horizonta
4874.36	49.40	44.20	9.04	31.60	-3.56	45.84	54.00	-8.16	AV	Horizonta
5359.62	49.14	44.20	9.86	32.00	-2.34	46.80	74.00	-27.20	PK	Vertical
5359.62	40.12	44.20	9.86	32.00	-2.34	37.78	54.00	-16.22	AV	Vertical
5359.77	47.34	44.20	9.86	32.00	-2.34	45.00	74.00	-29.00	PK	Horizonta
5359.77	38.67	44.20	9.86	32.00	-2.34	36.33	54.00	-17.67	AV	Horizonta
7310.85	54.30	43.50	11.40	35.50	3.40	57.70	74.00	-16.30	PK	Vertical
7310.85	44.54	43.50	11.40	35.50	3.40	47.94	54.00	-6.06	AV	Vertical
7310.88	54.07	43.50	11.40	35.50	3.40	57.47	74.00	-16.53	PK	Horizonta
7310.88	43.88	43.50	11.40	35.50	3.40	47.28	54.00	-6.72	AV	Horizonta

802.11 g



Report No.: STS2312301W01

High Channel (802.11g/2462 MHz)										
3264.64	61.79	44.70	6.70	28.20	-9.80	51.99	74.00	-22.01	PK	Vertical
3264.64	51.32	44.70	6.70	28.20	-9.80	41.52	54.00	-12.48	AV	Vertical
3264.64	61.52	44.70	6.70	28.20	-9.80	51.72	74.00	-22.28	PK	Horizontal
3264.64	50.24	44.70	6.70	28.20	-9.80	40.44	54.00	-13.56	AV	Horizontal
4924.38	58.38	44.20	9.04	31.60	-3.56	54.82	74.00	-19.18	PK	Vertical
4924.38	49.76	44.20	9.04	31.60	-3.56	46.20	54.00	-7.80	AV	Vertical
4924.42	58.40	44.20	9.04	31.60	-3.56	54.84	74.00	-19.16	PK	Horizontal
4924.42	49.41	44.20	9.04	31.60	-3.56	45.85	54.00	-8.15	AV	Horizontal
5359.78	49.00	44.20	9.86	32.00	-2.34	46.66	74.00	-27.34	PK	Vertical
5359.78	38.95	44.20	9.86	32.00	-2.34	36.61	54.00	-17.39	AV	Vertical
5359.72	48.48	44.20	9.86	32.00	-2.34	46.14	74.00	-27.86	PK	Horizontal
5359.72	38.39	44.20	9.86	32.00	-2.34	36.05	54.00	-17.95	AV	Horizontal
7385.77	53.67	43.50	11.40	35.50	3.40	57.07	74.00	-16.93	PK	Vertical
7385.77	43.73	43.50	11.40	35.50	3.40	47.13	54.00	-6.87	AV	Vertical
7385.79	54.01	43.50	11.40	35.50	3.40	57.41	74.00	-16.59	PK	Horizontal
7385.79	43.72	43.50	11.40	35.50	3.40	47.12	54.00	-6.88	AV	Horizontal

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. Scan with 802.11b, 802.11g, 802.11n (HT-20) the worst case is 802.11 g. Emission Level = Reading + Factor

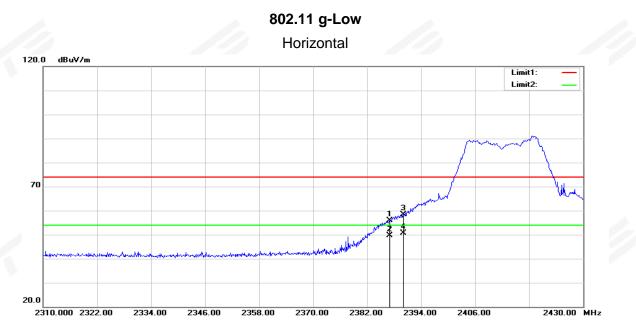
Margin = Emission Level-Limit

3. The frequency emission of peak points that did not show above the forms are at least 20dB below

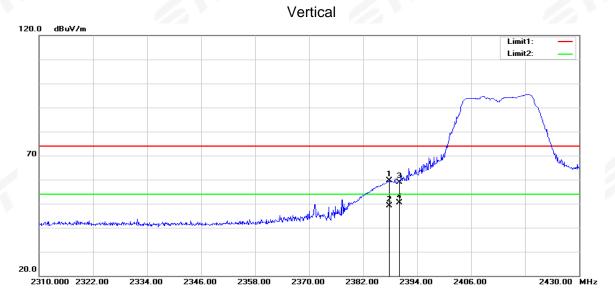
the limit, the frequency emission is mainly from the environment noise.



3.2.6 TEST RESULTS(Band edge Requirements)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.040	51.65	4.30	55.95	74.00	-18.05	peak
2	2387.040	45.45	4.30	49.75	54.00	-4.25	AVG
3	2390.000	54.13	4.34	58.47	74.00	-15.53	peak
4	2390.000	46.26	4.34	50.60	54.00	-3.40	AVG

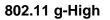


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.760	55.25	4.31	59.56	74.00	-14.44	peak
2	2387.760	44.85	4.31	49.16	54.00	-4.84	AVG
3	2390.000	54.63	4.34	58.97	74.00	-15.03	peak
4	2390.000	45.95	4.34	50.29	54.00	-3.71	AVG

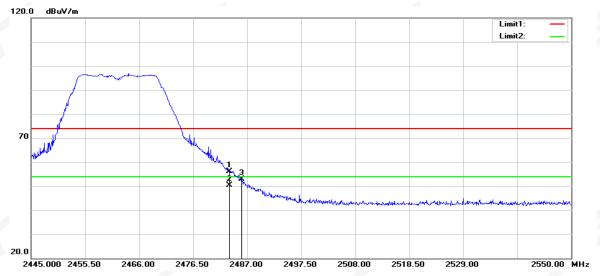




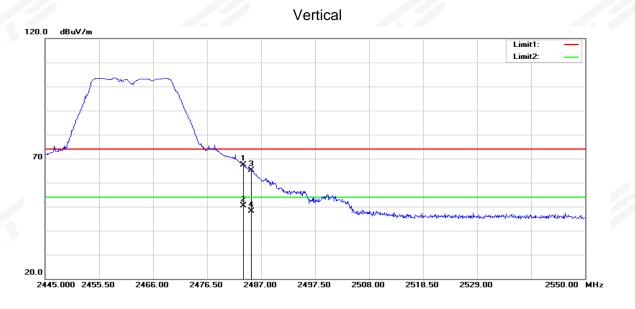
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	51.62	4.60	56.22	74.00	-17.78	peak
2	2483.500	45.89	4.60	50.49	54.00	-3.51	AVG
3	2485.950	48.18	4.61	52.79	74.00	-21.21	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	62.69	4.60	67.29	74.00	-6.71	peak
2	2483.500	45.66	4.60	50.26	54.00	-3.74	AVG
3	2485.110	60.42	4.61	65.03	74.00	-8.97	peak
4	2485.110	43.49	4.61	48.10	54.00	-5.90	AVG

Note: 802.11b, 802.11g, 802.11n (HT-20), mode all have been tested, the worst case is 802.11 g, only show the worst case.



4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	30 MHz to 10th carrier harmonic		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		
For Band edge	7 7		
Spectrum Parameter	Setting		
Detector	Peak		
	Lower Band Edge: 2300 to 2432 MHz		
Start/Stop Frequency	Upper Band Edge: 2442 to 2500 MHz		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

4.3 DEVIATION FROM STANDARD No deviation.

4.4 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONSPlease refer to section 3.1.4 of this report.4.6 TEST RESULTS



5. POWER SPECTRAL DENSITY TEST

5.1 LIMIT

	FCC Pa	rt15.247 , Subpart C		
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤8 dBm (RBW ≥3KHz)	2400-2483.5	PASS

5.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the 100 kHz \geq RBW \geq 3 kHz.
- 4. Set the VBW \ge 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS Please refer to section 3.1.4 of this report.

5.6 TEST RESULTS



6. BANDWIDTH TEST

6.1 LIMIT

		14 A		
	F	CC Part15.247,Subpar	t C	
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	≥500KHz (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

6.3 DEVIATION FROM STANDARD No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS Please refer to section 3.1.4 of this report.

6.6 TEST RESULTS



7. PEAK OUTPUT POWER TEST

7.1 LIMIT

	F	CC Part15.247,Subpa	rt C	
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

One of the following procedures may be used to determine the averaging conducted output powe r of a DTS EUT.

Method AVGSA-2 uses trace averaging across ON and OFF times of the EUT transmissions, foll owed by duty cycle correction. The procedure for this method is as follows:

a) Measure the duty cycle D of the transmitter output signal as described in 11.6.

b) Set span to at least 1.5 times the OBW.

c) Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.

d) Set VBW \geq [3 × RBW].

e) Number of points in sweep \geq [2 × span / RBW]. (This gives bin-to-bin spacing \leq RBW / 2, so th at narrowband signals are not lost between frequency bins.)

f) Sweep time = auto.

g) Detector = RMS (i.e., power averaging), if available. Otherwise, use the sample detector mode
 h) Do not use sweep triggering. Allow the sweep to "free run."

i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of trac es to be averaged shall be increased above 100 as needed such that the average accurately re presents the true average over the ON and OFF periods of the transmitter.

j) Compute power by integrating the spectrum across the OBW of the signal using the instrument 's band power measurement function with band limits set equal to the OBW band edges. If the in strument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

k) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average o ver both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

a) Set the RBW = 1 MHz.

b) Set the VBW \geq [3 × RBW].

c) Set the span \geq [1.5 \times DTS bandwidth].

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

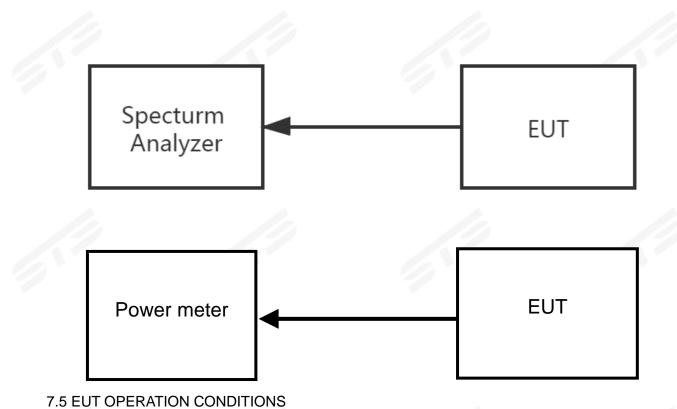
h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

7.3 DEVIATION FROM STANDARD No deviation.





Please refer to section 3.1.4 of this report.

7.6 TEST RESULTS



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device.

8.2 EUT ANTENNA

The EUT antenna is SMD Antenna. It comply with the standard requirement.



1. Duty Cycle

	-, -,				
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	47.94	3.19	1.69
NVNT	b	2437	47.98	3.19	1.69
NVNT	b	2462	47.98	3.19	1.69
NVNT	g	2412	47.72	3.21	1.7
NVNT	g	2437	47.76	3.21	1.7
NVNT	g	2462	47.72	3.21	1.7
NVNT	n20	2412	46.64	3.31	1.78
NVNT	n20	2437	46.64	3.31	1.78
NVNT	n20	2462	46.64	3.31	1.78



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Test Graphs Duty Cycle NVNT b 2412MHz Spectrum Analyzer RL :11:46 PM Dec 06 Center Freq 2.412000000 GHz Avg Type: Log-Pwr Trig: Free Run Atten: 30 dB PNO: Fast IFGain:Low Mkr1 894.0 µs 3.31 dBm Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div Log 0.00 10.0 20.0 30.0 40.0 -50.0 60.0 Center 2.412000000 GHz Res BW 1.0 MHz Span 0 Hz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) FUNCTION VALU MKR MODE TRC SCL FUNCTION FUNCTION WIDTH Т 894.0 μs (Δ) 1.538 ms 2.131 ms (Δ) 3.31 dBm -7.55 dBm 3.37 dBm (Δ) N N t (Δ) t t (Δ) 2 3 4 5 6 7 8 9 10 11 12 STATUS MSG Duty Cycle NVNT b 2437MHz Spectrum Analyzer - Swept SA 04 RL RF 50 Ω AC Center Freq 2.437000000 GHz 07:17:05 PM Dec 06, 202 Avg Type: Log-Pwr TRACE PNO: Fast +++ IFGain:Low Trig: Free Run #Atten: 30 dB TYPE WWWWWWWW Mkr1 243.0 µs Ref Offset 0.5 dB Ref 20.00 dBm -9.68 dḃm 10 dB/div Log 0.00 -20.0 30.0 .40 r -50.0 60.0 Center 2.437000000 GHz Res BW 1.0 MHz Span 0 Hz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION V -9.68 dBm 6.44 dBm -4.93 dBm 243.0 μs (Δ) 886.0 μs 1.479 ms (Δ) (Δ) N N N 1 2 3 4 5 6 7 8 9 10 11 12 t (Δ) t t (Δ) STATUS ISG

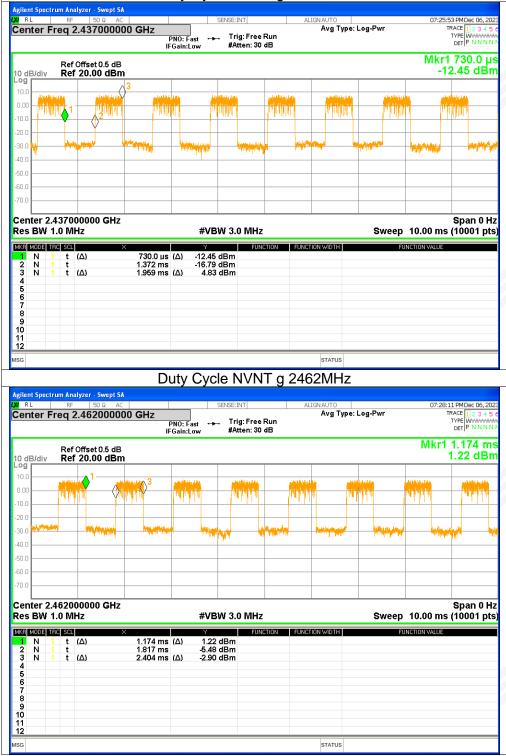


Duty Cycle NVNT b 2462MHz

pectrum Analyzer - Swept SA			
RF 50 Ω AC	00 GHz	ALIGNAUTO Avg Type: Log-Pwr	07:19:32 PM Dec 06, 2023 TRACE 1 2 3 4 5 6
	PNO: Fast ↔ Trig: Free F IFGain:Low #Atten: 30 c		DET P N N N N
Ref Offset 0.5 dB	1		Mkr1 242.0 µs 1.57 dBm
$1 - 0^2$			
)			
	and an and a start of the start		warmen and the second
2.462000000 GHz 1.0 MHz	#VBW 3.0 MHz	S114	Span 0 Hz eep 10.00 ms (10001 pts)
TRC SOL	X Y FUNC	TION FUNCTION WIDTH	FUNCTION VALUE
1 t (Δ) 1 t	242.0 μs (Δ) 1.57 dBm 885.0 μs 6.23 dBm		
1 t (Δ)	1.478 ms (∆) -0.75 dBm		
		STATUS	
	Duty Cycle NVN	Г g 2412MHz	
<mark>ctrum Analyzer - Swept SA</mark> RF 50 Ω AC		ALIGNAUTO	07:23:09 PM Dec 06, 2023
Freq 2.4120000	DO GHZ PNO: Fast +++ Trig: Free F	Avg Type: Log-Pwr lun	TRACE 1 2 3 4 5 6 TYPE WANADAAA
	IFGain:Low #Atten: 30 c	В	DET ^P ΝΝΝΝΝ Mkr1 464.0 μs
Ref Offset 0.5 dB Ref 20.00 dBm	1		0.25 dBm
	aliana ana ana ana ana ana ana ana ana ana	utana atau atau	and a state of the state
	analatan katanakan kan	- Internet internet	
2.412000000 GHz / 1.0 MHz	#VBW 3.0 MHz	Sw	Span 0 Hz eep 10.00 ms (10001 pts)
TRC SCL	X Y FUNC	TION FUNCTION WIDTH	FUNCTION VALUE
1 t (Δ) 1 t 1 t (Δ)	464.0 μs (Δ) 0.25 dBm 1.107 ms -6.20 dBm 1.694 ms (Δ) -6.27 dBm		
, (1)	1.034 ms (<u>a)</u> -0.27 ubm		



Duty Cycle NVNT g 2437MHz





Duty Cycle NVNT n20 2412MHz





Duty Cycle NVNT n20 2462MHz

	RF 50 Ω A	AC		SENSE:INT	ALIGN AUTO			7 PM Dec 06, 2023
ter Fre	eq 2.462000		PNO: Fast 🔸	. Trig: Free Ru #Atten: 30 dB		pe: Log-Pwr		RACE 123456 TYPE WWWWWWW DET PNNNNN
	Ref Offset 0.5 dl Ref 20.00 dB						Mkr1	136.0 µs 5.27 dBm
		alara din di Tili Tili Afia						
-	fend terseligi	nad bonquartys	Waye Palya		uninggy Will			••••
.0								
0								
nter 2.46	62000000 GH2 0 MHz	Z	#VB	W 3.0 MHz		Sweep) 10.00 ms	Span 0 Hz (10001 pts)
nter 2.46 s BW 1.0 MODE 166 N 1 N 1	0 MHz	Z 136.0 μs 780.0 μs 1.343 ms	 Υ (Δ) 5.27 -7.16 	dBm dBm	N FUNCTION WIDTH		0 10.00 ms	
SBW 1.0	0 MHz 50 π	× 136.0 µs 780.0 µs	 Υ (Δ) 5.27 -7.16 	dBm dBm	N FUNCTION WIDTH			
BW 1.0	0 MHz 50 π	× 136.0 µs 780.0 µs	 Υ (Δ) 5.27 -7.16 	dBm dBm	N FUNCTION WIDTH			









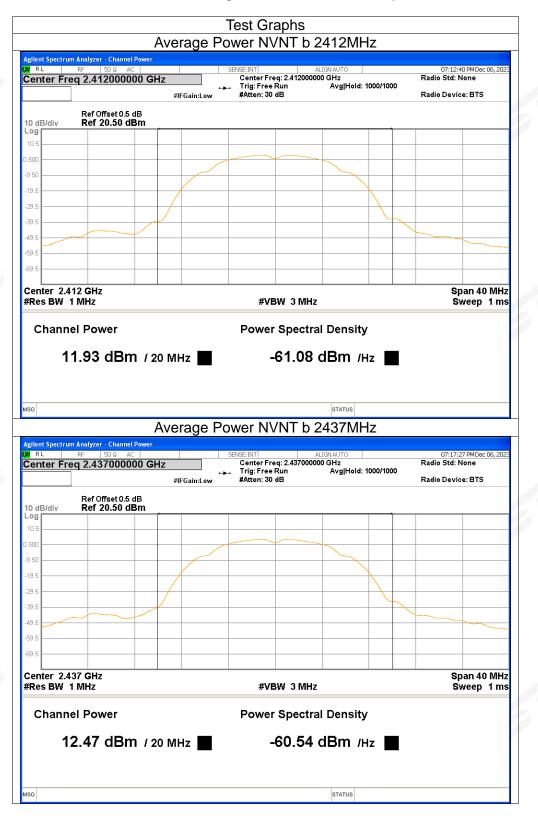




2. Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	11.93	3.19	15.12	<=30	Pass
NVNT	b	2437	12.47	3.19	15.66	<=30	Pass
NVNT	b	2462	12.79	3.19	15.98	<=30	Pass
NVNT	g	2412	10.91	3.21	14.12	<=30	Pass
NVNT	g	2437	10.55	3.21	13.76	<=30	Pass
NVNT	g	2462	10.72	3.21	13.93	<=30	Pass
NVNT	n20	2412	10.62	3.31	13.93	<=30	Pass
NVNT	n20	2437	10.51	3.31	13.82	<=30	Pass
NVNT	n20	2462	10.55	3.31	13.86	<=30	Pass





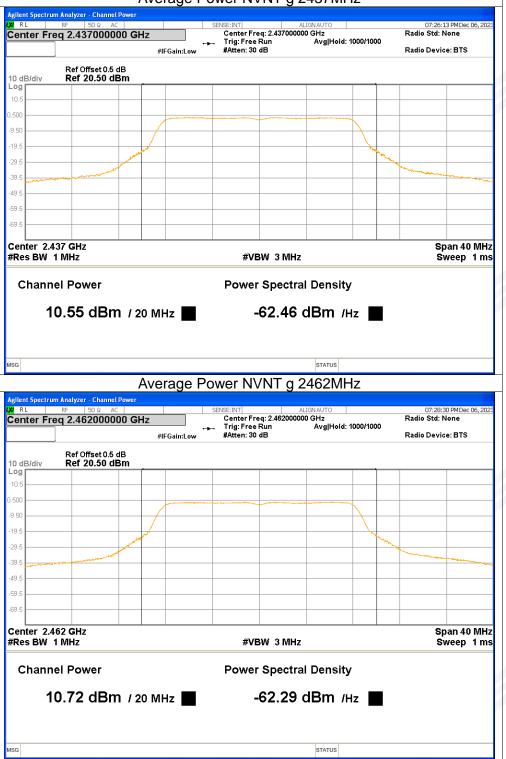








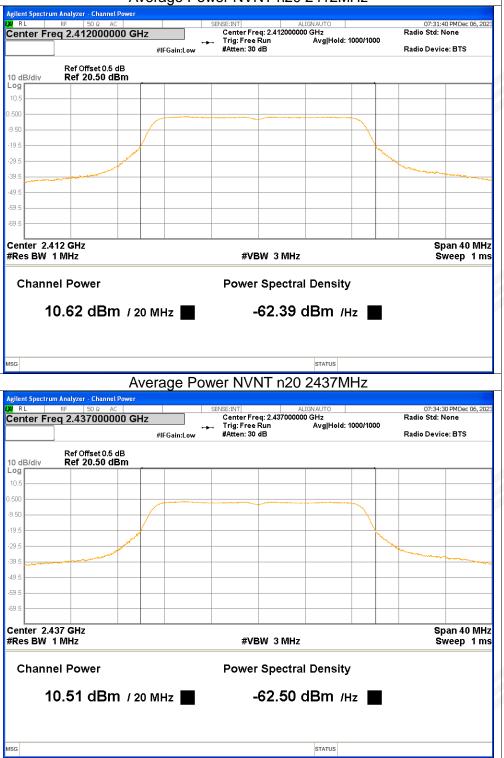




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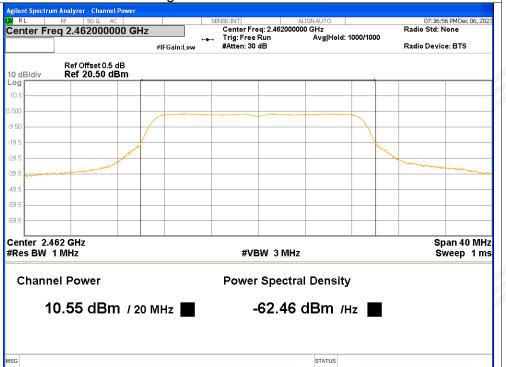








Average Power NVNT n20 2462MHz





















3. Maximum Peak Conducted Output Power

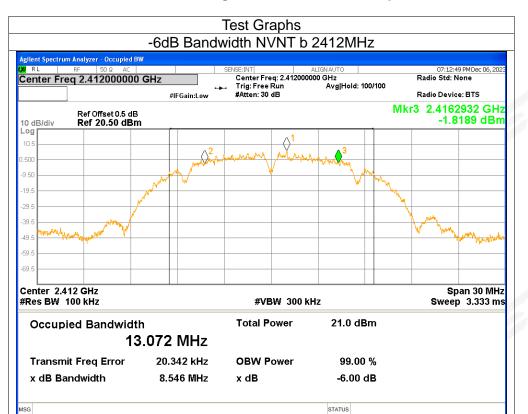
•					
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	18.23	<=30	Pass
NVNT	b	2437	18.73	<=30	Pass
NVNT	b	2462	18.91	<=30	Pass
NVNT	g	2412	21.82	<=30	Pass
NVNT	g	2437	21.52	<=30	Pass
NVNT	g	2462	21.64	<=30	Pass
NVNT	n20	2412	21.71	<=30	Pass
NVNT	n20	2437	21.5	<=30	Pass
NVNT	n20	2462	21.59	<=30	Pass



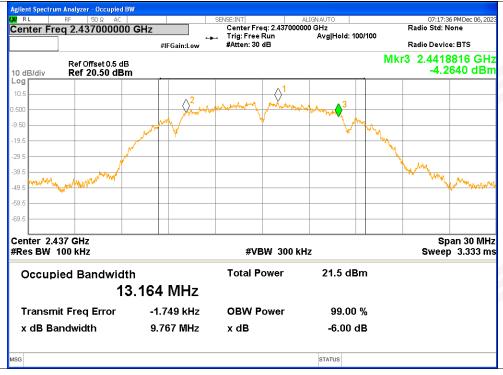
4. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	8.5457	>=0.5	Pass
NVNT	b	2437	9.7666	>=0.5	Pass
NVNT	b	2462	9.0775	>=0.5	Pass
NVNT	g	2412	16.3309	>=0.5	Pass
NVNT	g	2437	16.2805	>=0.5	Pass
NVNT	g	2462	16.3237	>=0.5	Pass
NVNT	n20	2412	17.0125	>=0.5	Pass
NVNT	n20	2437	17.5292	>=0.5	Pass
NVNT	n20	2462	17.3939	>=0.5	Pass

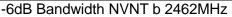


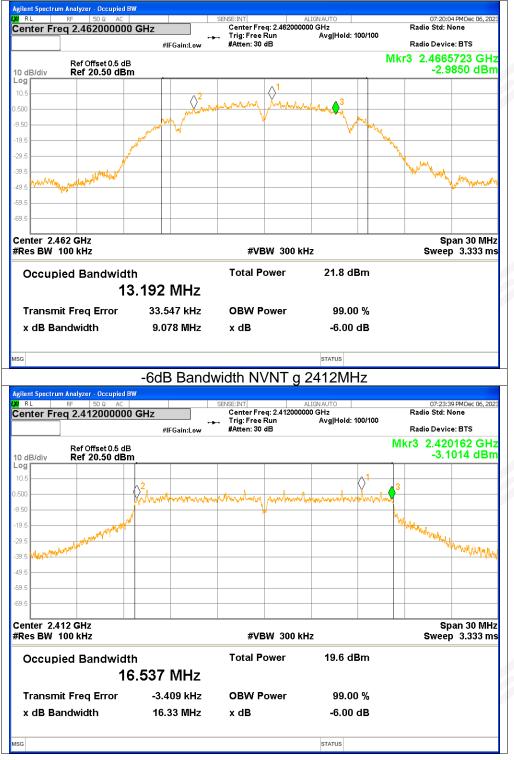


-6dB Bandwidth NVNT b 2437MHz



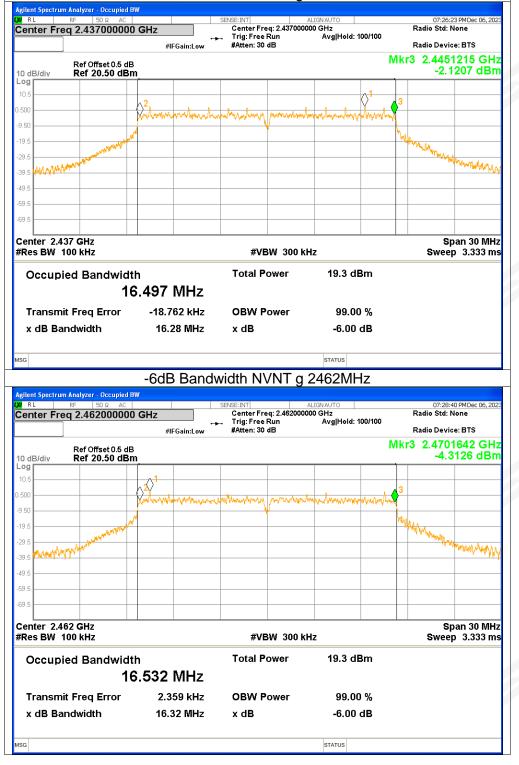








-6dB Bandwidth NVNT g 2437MHz

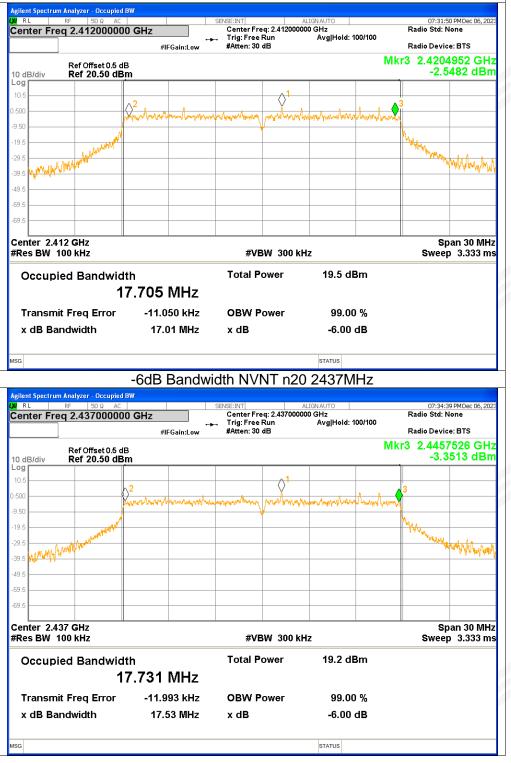


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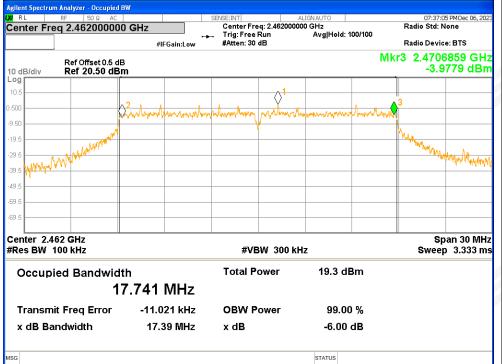


-6dB Bandwidth NVNT n20 2412MHz









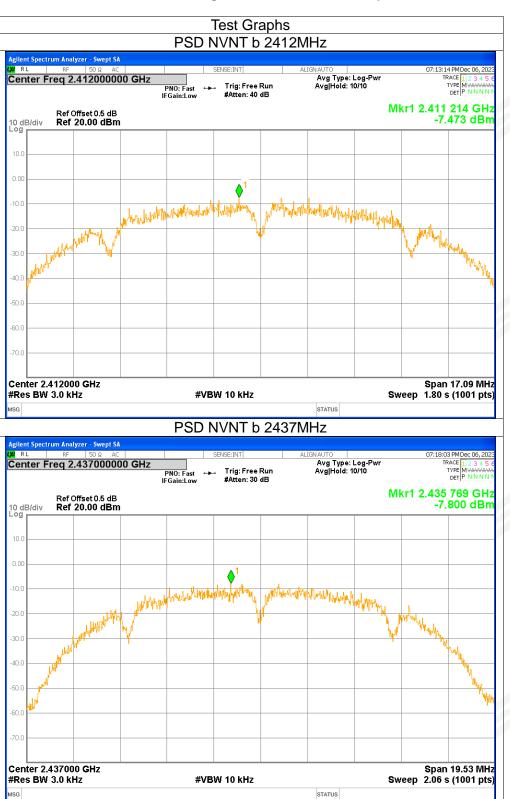


5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-7.47	<=8	Pass
NVNT	b	2437	-7.8	<=8	Pass
NVNT	b	2462	-6.87	<=8	Pass
NVNT	g	2412	-10.8	<=8	Pass
NVNT	g	2437	-11.13	<=8	Pass
NVNT	g	2462	-10.81	<=8	Pass
NVNT	n20	2412	-11.87	<=8	Pass
NVNT	n20	2437	-11.58	<=8	Pass
NVNT	n20	2462	-11.87	<=8	Pass



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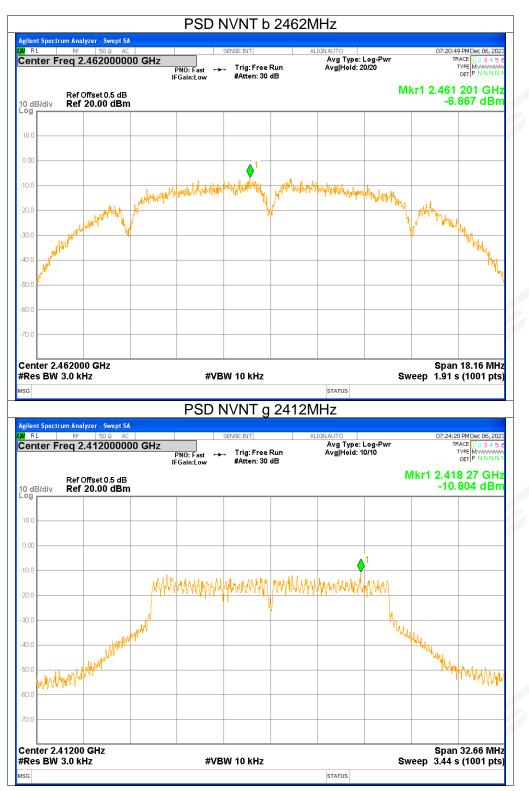


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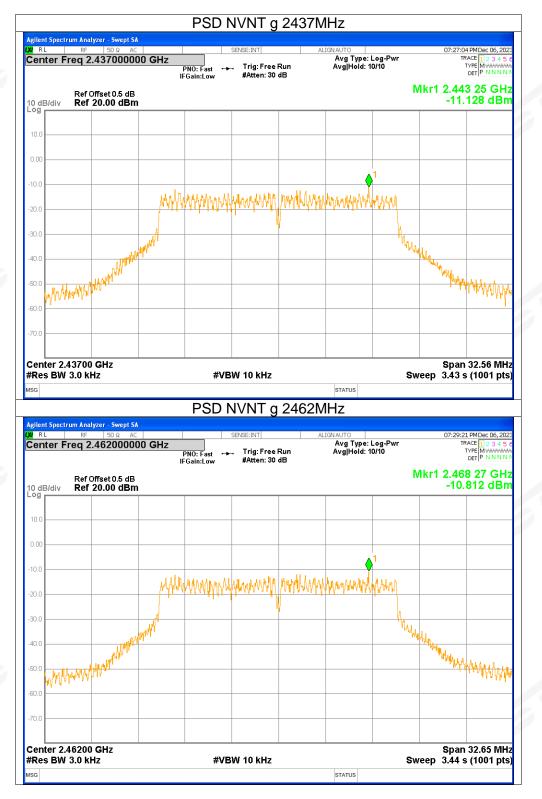
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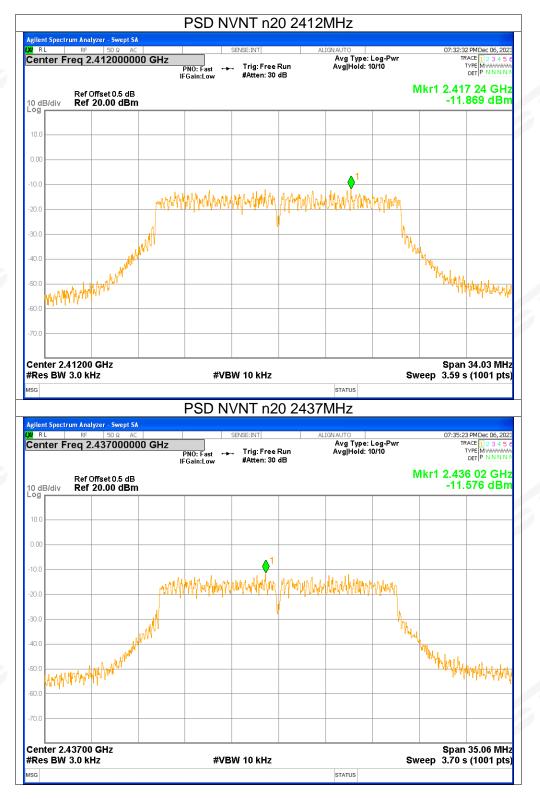
Report No.: STS2312301W01





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Report No.: STS2312301W01

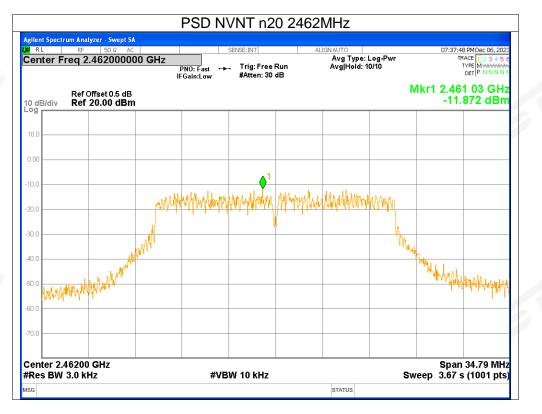






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Report No.: STS2312301W01





6. Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-48.76	<=-20	Pass
NVNT	b	2462	-56.31	<=-20	Pass
NVNT	g	2412	-32.8	<=-20	Pass
NVNT	g	2462	-42.86	<=-20	Pass
NVNT	n20	2412	-32.24	<=-20	Pass
NVNT	n20	2462	-38.5	<=-20	Pass



















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Band Edge NVNT g 2412MHz Ref ectrum Analyzer - Swept SA 07:24:27 PMD TRACE 1 TYPE M DET P RL SENSE:INT ec 06, 20 Center Freq 2.412000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 Trig: Free Run PNO: Fast IFGain:Low #Atten: 30 dB Mkr1 2.413 23 GHz Ref Offset 0.5 dB Ref 20.00 dBm 3.368 dBm 10 dB/div 10. ٥ 0.00 with when a property of the hhim -20.0 30. MMM MM www. -40 r -50.0 -60.0 Center 2.41200 GHz Span 30.00 MHz Sweep 2.93 ms (1001 pts) #VBW 300 kHz #Res BW 100 kHz STATUS MSG Band Edge NVNT g 2412MHz Emission t Spectrum Analyzer - Swept SA RL 17:24:45 PM Dec 06, TRACE 1 2 3 Center Freq 2.377000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB TYPE MWAAAAAA DET P N N N N Mkr1 2.405 7 GHz Ref Offset 0.5 dB Ref 20.00 dBm 3.384 dBm 10 dB/div Log ۰ 0.00 J.A.I 10.0 20.0 $\langle \rangle$ 30.0 ANN 40.0 -50.0 -60.0 -70.0 Start 2.32700 GHz #Res BW 100 kHz Stop 2.42700 GHz #VBW 300 kHz Sweep 9.60 ms (1001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH
 2.405 7 GHz
 (Δ)
 3.384 dBm

 2.400 0 GHz
 -31.783 dBm

 2.400 0 GHz
 (Δ)
 -31.783 dBm

 2.399 8 GHz
 -29.432 dBm
 1 2 3 4 5 6 7 8 9 10 11 12 NNNN f (Δ) f f (Δ) f (Δ) STATUS ISG



e <mark>nt Spect</mark> R L	rum Analyzer - Swept	SA	d Edge		-				
	RF 50 Ω / Freq 2.4620000	000 GHz	PNO: Fast ++	SENSE:INT Trig: Free F #Atten: 30 c	Run	IGNAUTO Avg Type: Avg Hold: 1			27 PM Dec 06, 2023 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N
B/div	Ref Offset 0.5 dl Ref 20.00 dB	3 m							54 50 GHz .025 dBm
0		1							
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	and we have							WWW WWW	
	al an Water								Anna Indiana anta a
	WYINW								7 90
	46200 GHz								n 30.00 MHz
nt Spect	rum Analyzer - Swept		Edge N∖	w 300 кнz /NT g 2	462M⊦	status Iz Emis		eep 2.35 m	is (1001 pts)
L	rum Analyzer - Swept RF 50 Ω / ireq 2.4970000	SA AC DOO GHz			AL		SiON	07:29:	45 PMDec 06, 2023 TRACE 1 2 3 4 5 6
IL	RF 50 Ω / Freq 2.4970000	sa ac DOO GHz I		'NT g 2 Eense:int	AL Run	IZ Emis	SiON	07:29: Mkr1 2.4	45 PM Dec 06, 2023 TRACE 1 2 3 4 5 6 TYPE M WARMAN DET P N N N N I63 2 GHz
nter F	RF 50Ω /	sa ac DOO GHz I 3	PNO: Fast	/NT g 2 SENSE: INT . Trig: Free F	AL Run	IZ Emis	SiON	07:29: Mkr1 2.4	45 PM Dec 06, 2023 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P N N N N N
dB/div	RF 50Ω A	sa ac DOO GHz I 3	PNO: Fast	/NT g 2 SENSE: INT . Trig: Free F	AL Run	IZ Emis	SiON	07:29: Mkr1 2.4	45 PM Dec 06, 2023 TRACE 1 2 3 4 5 6 TYPE M WARMAN DET P N N N N I63 2 GHz
nter F	RF 50Ω A	sa ac DOO GHz I 3	PNO: Fast	/NT g 2 SENSE: INT . Trig: Free F	AL Run	IZ Emis	SiON	07:29: Mkr1 2.4	45 PMDec 06, 2023 TRACE 11 2 3 4 5 6 TYPE MWWWW DET P NNNN 163 2 GHz .551 dBm
dB/div	RF 50Ω A	sa ac DOO GHz I 3	PNO: Fast FGain:Low	/NT g 2 SENSE: INT . Trig: Free F	AL Run	IZ Emis	SiON	07:29: Mkr1 2.4	45 PM Dec 06, 2023 TRACE 1 2 3 4 5 6 TYPE M WARMAN DET P N N N N I63 2 GHz
IB/div	RF 50Ω A	sa ac DOO GHz I 3	PNO: Fast FGain:Low	'NT g 2 SENSE:INT Trig: Free F #Atten: 30 c	AL Run	IZ Emis	SiON	07:29: Mkr1 2.4	45 PMDec 06, 2023 TRACE 11 2 3 4 5 6 TYPE MWWWW DET P NNNN 163 2 GHz .551 dBm
dB/div	RF 50Ω A	sa ac DOO GHz I 3	PNO: Fast FGain:Low	/NT g 2 SENSE: INT . Trig: Free F	AL Run	IZ Emis	SiON	07:29: Mkr1 2.4	45 PMDec 06, 2023 TRACE 11 2 3 4 5 6 TYPE MWWWW DET P NNNN 163 2 GHz .551 dBm
	RF 50Ω A	sa ac DOO GHz I 3	PNO: Fast FGain:Low	'NT g 2 SENSE:INT Trig: Free F #Atten: 30 c	AL Run	IZ Emis	SiON	07:29: Mkr1 2.4	45 PMDec 06, 2023 TRACE 11 2 3 4 5 6 TYPE MWWWW DET P NNNN 163 2 GHz .551 dBm
B/div	Ref Offset 0.5 dl Ref 20.00 dB	sa ac DOO GHz I 3	PNO: Fast FGain:Low	'NT g 2 SENSE:INT Trig: Free F #Atten: 30 c	AL Run	IZ Emis	SiON	07:29: Mkr1 2.4 3	45 PM Dec 06, 2022 IRACE 12345 c TYPE MUMANNAN 1632 C GHz 551 d Bm -16 90 dBm
art 2.44	RF 50Ω A	sa ac DOO GHz I 3	PNO: Fast FGain:Low	'NT g 2 SENSE:INT Trig: Free F #Atten: 30 c	AL Run	IZ Emis	SiON Log-Pwr 1000/1000	07:29: Mkr1 2.4 3	45 PMDec 06, 2023 TRACE 11 2 3 4 5 6 TYPE MWWWW DET P NNNN 163 2 GHz .551 dBm
dB/div a a a a a a a a a a a a a a a a a a a	Ref Offset 0.5 dl Ref 20.00 dB	5A 3C 33 m 44 44 4 44	PNO: Fast FGain:Low #VBI	/NT g 2 SENSE:INT Trig: Free F #Atten: 30 c	AL Run	IZ EMIS	SiON Log-Pwr 1000/1000	07:29: Mkr1 2.4 3	45 PMDec 06, 2023 TRACE 12 3 4 5 6 TYPE MANNANA 163 2 GHz .551 dBm .16.99 dBm .16.99 dBm .354700 GHz
AB/div AB/div	Ref Offset 0.5 dl Ref 20.00 dB Λ 1	54 5000 GHz 1 3 m 2.463 2 GHz 2.463 2 GHz 2.463 2 GHz 2.463 0 GHz	PNO: Fast FGain:Low #VB #VB (△) 3.551 -39.840 (△) 5.1968	VNT g 2		IZ EMIS	SiON Log-Pwr 1000/1000	07:29: Mkr1 2.4 3 	45 PMDec 06, 2023 TRACE 12 3 4 5 6 TYPE MANNANA 163 2 GHz .551 dBm .16.99 dBm .16.99 dBm .354700 GHz
IB/div IB/div	RF 50 Ω / req 2.4970000 Ref 0ffset 0.5 dl Ref 20.00 dB Med 20.00 dB 1 1 Med 20.00 dB 1 1	SA CC 000 GHz 1 3 m 4 4 4 2.463 2 GHz 2.463 2 GHz 2.463 2 GHz	PNO: Fast FGain:Low #VB #VB (△) 3.551 -39.840 (△) 5.1968	VNT g 2		IZ EMIS	SiON Log-Pwr 1000/1000	07:29: Mkr1 2.4 3 	45 PMDec 06, 2023 TRACE 12 3 4 5 6 TYPE MANNANA 163 2 GHz .551 dBm .16.99 dBm .16.99 dBm .354700 GHz
dB/div nter F	Ref Offset 0.5 dl Ref 20.00 dB Λ 1	54 5000 GHz 1 3 m 2.463 2 GHz 2.463 2 GHz 2.463 2 GHz 2.463 0 GHz	PNO: Fast FGain:Low #VB #VB (△) 3.551 -39.840 (△) 5.1968	VNT g 2		IZ EMIS	SiON Log-Pwr 1000/1000	07:29: Mkr1 2.4 3 	45 PMDec 06, 2023 TRACE 12 3 4 5 6 TYPE MANNANA 163 2 GHz .551 dBm .16.99 dBm .16.99 dBm .354700 GHz
alb/div nter F	Ref Offset 0.5 dl Ref 20.00 dB Λ 1	54 5000 GHz 1 3 m 2.463 2 GHz 2.463 2 GHz 2.463 2 GHz 2.463 0 GHz	PNO: Fast FGain:Low #VB #VB (△) 3.551 -39.840 (△) 5.1968	VNT g 2		IZ EMIS	SiON Log-Pwr 1000/1000	07:29: Mkr1 2.4 3 	45 PMDec 06, 2023 TRACE 12 3 4 5 6 TYPE MANNANA 163 2 GHz .551 dBm .16.99 dBm .16.99 dBm .354700 GHz
B/div B/div L L L L L L L L L L L L L L L L L L L	Ref Offset 0.5 dl Ref 20.00 dB Λ 1	54 5000 GHz 1 3 m 2.463 2 GHz 2.463 2 GHz 2.463 2 GHz 2.463 0 GHz	PNO: Fast FGain:Low #VB #VB (△) 3.551 -39.840 (△) 5.1968	VNT g 2		IZ EMIS	SiON Log-Pwr 1000/1000	07:29: Mkr1 2.4 3 	45 PMDec 06, 2023 TRACE 12 3 4 5 6 TYPE MANNANA 163 2 GHz .551 dBm .16.99 dBm .16.99 dBm .354700 GHz



Band Edge NVNT n20 2412MHz Ref ectrum Analyzer - Swept SA RI 07:32:38 PM D TRACE 1 TYPE M DET P ec 06, 20 Center Freq 2.412000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 Trig: Free Run PNO: Fast IFGain:Low #Atten: 30 dB Mkr1 2.418 24 GHz 3.085 dBm Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div 10. 0.00 and have been borrer mound from have been - horrow brown word -20.0 Wyully 30. MARAM hMM -40 r -50.0 -60.0 Center 2.41200 GHz Span 30.00 MHz #VBW 300 kHz Sweep 2.93 ms (1001 pts) #Res BW 100 kHz STATUS MSG Band Edge NVNT n20 2412MHz Emission - Swept SA t Spectrum Analyzer -RL 17:32:57 PM Dec 06, TRACE 1 2 3 Center Freq 2.377000000 GHz Avg Type: Log-Pwr Avg|Hold: 1000/1000 RACE 1 2 3 4 5 TYPE MWMMM DET P N N N N PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.413 3 GHz Ref Offset 0.5 dB Ref 20.00 dBm 3.436 dBm 10 dB/div Log ₀¹ 0.00 10.0 20.1 $\langle \rangle$ 30.0 40.0 -50.0 -60.0 -70.0 Start 2.32700 GHz #Res BW 100 kHz Stop 2.42700 GHz #VBW 300 kHz Sweep 9.60 ms (1001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH 2.413 3 GHz (Δ) 3.436 dBm 2.400 0 GHz -31.577 dBm 2.400 0 GHz (Δ) -31.577 dBm 2.399 7 GHz -29.166 dBm 1 2 3 4 5 6 7 8 9 10 11 12 NNNN f (Δ) f f (Δ) f (Δ) STATUS ISG



Band Edge NVNT n20 2462MHz Ref





7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-34.94	<=-20	Pass
NVNT	b	2437	-35.5	<=-20	Pass
NVNT	b	2462	-34.87	<=-20	Pass
NVNT	g	2412	-40.58	<=-20	Pass
NVNT	g	2437	-40.64	<=-20	Pass
NVNT	g	2462	-42.27	<=-20	Pass
NVNT	n20	2412	-39.89	<=-20	Pass
NVNT	n20	2437	-40.39	<=-20	Pass
NVNT	n20	2462	-40.79	<=-20	Pass



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RL RF enter Freq		c 100 GHz	PNO: Fast ↔ IFGain:Low	SENSE:INT . Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Avg Hold: "			18:09 PM Dec 06, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N
	f Offset 0.5 dB f 20.00 dBr						Mkr1 2.4	437 51 GH 6.760 dBn
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.00			mhyhul	WLICOW T	marchara			
0.0		N	\ /			M		
		w	W		ν <u>γ</u>	N.		
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0.0		1					N.	
0.0	- John ph	/					W	<u>_</u>
WM	What What Y						v	M Manun
0.0								
0.0								
0.0								
			urious N	VNT b 243	status 7MHz Emi			
ilent Spectrum Ar RL RF	a <mark>lyzer - Swept S</mark> = 50 Ω A	GA C		VNT b 243		ssion		18:47 PM Dec 06, 20 TRACE 1 2 3 4 5
ilent Spectrum Ar RL RF	a <mark>lyzer - Swept S</mark> = 50 Ω A	64 C 1000 GHz			7MHz Emi	SSION		18:47 PM Dec 05, 200 TRACE 1 2 3 4 5 TYPE M WWWWW
ilent Spectrum An RL RF enter Freq Rei	nalyzer - Swept S 50 Ω A 13.265000 f Offset 0.5 dE	6A C 1000 GHz 13	PNO: Fast	SENSE:INT	7MHz Emi Alignauto Avg Type:	SSION	07:	18:47 PMDec 06, 203 TRACE 1 2 3 4 5 TYPE MWWWW DET P.N.N.N 2.435 2 GH
ilent Spectrum An RL RF enter Freq OdB/div Re	nalyzer - Swept S - 50 Ω A 13.265000	6A C 1000 GHz 13	PNO: Fast	SENSE:INT	7MHz Emi Alignauto Avg Type:	SSION	07:	18:47 PMDec 06, 203 TRACE 1 2 3 4 5 TYPE MWWWW DET P.N.N.N 2.435 2 GH
ilent Spectrum Ar RL RF enter Freq Ref B dB/div Re O dB/div Re O dB/div Re	nalyzer - Swept S 50 Ω A 13.265000 f Offset 0.5 dE	6A C 1000 GHz 13	PNO: Fast	SENSE:INT	7MHz Emi Alignauto Avg Type:	SSION	07:	18:47 PMDec 06, 203 TRACE 1 2 3 4 5 TYPE MWWWW DET P.N.N.N 2.435 2 GH
Ilent Spectrum Ar RL RF enter Freq 0 dB/div Re 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	nalyzer - Swept S 50 Ω A 13.265000 f Offset 0.5 dE	6A C 1000 GHz 13	PNO: Fast	SENSE:INT	7MHz Emi Alignauto Avg Type:	SSION	07:	18:47 PMDec 06, 203 TRACE 1 2 3 4 5 TYPE MWWWW DET P.N.N.N 2.435 2 GH
ilent Spectrum Ar RL RF enter Freq 0 dB/div Re 9 9 0.0 0.0 0.0 0.0	nalyzer - Swept S 50 Ω A 13.265000 f Offset 0.5 dE	6A C 1000 GHz 13	PNO: Fast	SENSE:INT	7MHz Emi Alignauto Avg Type:	SSION	07:	18:47 PM Dec 06, 202 TRACE 12:34 5 TYPE MWWWW DET IP NNNN 2,435 2 GH 4.961 dBn
ilent Spectrum Ar RL RF enter Freq 0 dB/div Re 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	nalyzer - Swept S 50 Ω A 13.265000 f Offset 0.5 dE	6A C 1000 GHz 13	PNO: Fast	SENSE:INT	7MHz Emi Alignauto Avg Type:	SSION	07:	18:47 PMDec 06, 202 TRACE 12:34 5 TYPE MWWWWW ber IP NNNN 2.435 2 GH; 4.961 dBn
Ilent Spectrum Ar RL RF enter Freq Reiter Freq 0 dB/div Re 0 dD.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	nalyzer - Swept S 50 Ω A 13.265000 f Offset 0.5 dE	6A C 1000 GHz 13	PNO: Fast	SENSE:INT	7MHz Emi Alignauto Avg Type:	SSION	07:	18:47 PM Dec 06, 202 TRACE 12:34 5 TYPE MWWWW DET IP NNNN 2,435 2 GH 4.961 dBn
Ilent Spectrum Ar RL RF enter Freq Reiter Freq 0 dB/div Reiter Reiter Reiter 0 d.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	nalyzer - Swept S 50 Ω A 13.265000 f Offset 0.5 dE	6A C 1000 GHz 13	PNO: Fast	SENSE:INT	7MHz Emi Alignauto Avg Type:	SSION	07:	18:47 PM Dec 06, 202 TRACE 12:34 5 TYPE MWWWW DET IP NNNN 2,435 2 GH 4.961 dBn
ilent Spectrum Ar RL RF enter Freq 0 dB/div Re 0 dB/div Re 0 d 0 d 0 d 0 d 0 d 0 d 0 d 0 d	nalyzer - Swept S 50 Ω A 13.265000 f Offset 0.5 dE	6A C 1000 GHz 13	PNO: Fast	SENSE:INT	7MHz Emi Alignauto Avg Type:	SSION	07: Mkr1 2	18:47 PM Dec 06, 200 TRACE 12:34 5 TYPE M WWWW DET IP NNNN 4.435 2 GH 4.961 dBn 1324 ub
Sectum Ar RL RF enter Freq Rei 0 dB/div Rei 0 d 0 dB/div Rei 0 dB/div Rei 0 d </td <td>Alyzer - Swept S 50 2 A 13.265000 f Offset 0.5 dE f 20.00 dBr 1</td> <td>6A C 1000 GHz 13</td> <td>PNO: Fast IFGain:Low</td> <td>SENSE:INT</td> <td>7MHz Emi Alignauto Avg Type:</td> <td>SSION</td> <td>07: Mkr1 2</td> <td>18:47 PMDec 06, 202 TRACE 12:34 5 TYPE MWWWW ber IP NNNN 2.435 2 GH</td>	Alyzer - Swept S 50 2 A 13.265000 f Offset 0.5 dE f 20.00 dBr 1	6A C 1000 GHz 13	PNO: Fast IFGain:Low	SENSE:INT	7MHz Emi Alignauto Avg Type:	SSION	07: Mkr1 2	18:47 PMDec 06, 202 TRACE 12:34 5 TYPE MWWWW ber IP NNNN 2.435 2 GH
Spectrum Ar RL RF enter Freq Ref 0 dB/div Re 0 div Rev	Alyzer - Swept S 50 2 A 13.265000 f Offset 0.5 dE f 20.00 dBr 1	2,435 2 GHz	PNO: Fast IFGain:Low → 4 ↓ 5 #VB	SENSE:INT	7MHz Emi Alignauto Avg Type:	SSION	07: Mkr1 2	1324 dB
Sector of the sector	alyzer - Swept S = 50 R A 13.265000 F Offset 0.5 dE f 20.00 dBr 1 kHz	x 2.435 2 GHz 4.874 0 GHz	PNO: Fast IFGain:Low 4 4 5 #VB #VB 2 (Δ) 4.961 2 (Δ) 2.8749	SENSE:INT		SSION	07: Mkr1 2	18:47 PMDec 06, 202 TRACE 12:34 5 TYPE M WWWW cer P NNN N .435 2 GH; 4.961 dBn 1324 dB 1324 dB
enter Freq Rel 0 dB/div Re 0 dB/div Re 0 d	Alyzer - Swept S 50 Ω A 13.265000 f Offset 0.5 dE f 20.00 dBr 1 1 kHz (Δ)	A C ↓ 0000 GHz 3 m 2 4 2.435 2 GHz 4.874 0 GHz	PNO: Fast IFGain:Low 4 4 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	SENSE:INT		SSION	07: Mkr1 2	18:47 PMDec 06, 202 TRACE 12:34 5 TYPE M WWWW cer P NNN N .435 2 GH; 4.961 dBn 1324 dB 1324 dB
Sector of the sector	Alyzer - Swept S 50 Ω A 13.265000 f Offset 0.5 dE f 20.00 dBr 1 1 kHz (Δ)	A C C C C C C C C C C C C C	PNO: Fast IFGain:Low 4 4 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	SENSE:INT		SSION	07: Mkr1 2	18:47 PM Dec 06, 202 TRACE 12:34 5 TYPE M WHAT 0ET IP NNNN 4.435 2 GH 4.961 dBn 1324 dB 1324 dB 0 0 0 0 0 0 0 0 0 0 0 0 0



t Spectrum Analyzer		Spurious	s NVNT b 24			
RF		PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	07:21:20 PM Dec 06, 202 TRACE 1 2 3 4 5 TYPE MWWWWM DET P N N N N	e
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Spectrum Analyzer	- Swept SA					
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ilent Spectrum / RL enter Freq	rf 50Ω A 2.4620000	00 GHz	PNO: Fast 🔸	SENSE:INT	n Avgj	Type: Log-Pwr Hold: 100/100		07:29:52 PM De TRACE 1 TYPE M	2 3 4 5
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a RL enter Freq a	Analyzer Swept S RF 50 A 13.265000 ef Offset 0.5 dE ef 20.00 dBr 20 dBr	5A C 0000 GHz II 3 m 3 3 2.458 2 GHz 3.282 3 GHz	PNO: Fast FGain:Low #VB (Δ) 2.161 -38.832	VNT g 24	AligNAUT AligNAUT Avg	US Emission Type: Log-Pwr Hold: 10/10	Mkr	93 ms (100	06,202 2 3 4 5 NNNN GH: dBn
a RL RL enter Freg odB/div R 29 0.0 0.0 <td>Analyzer Swept S RF 50 Ω A 13.265000 ef Offset 0.5 dE ef 20.00 dBr 1 2 0 kHz 2 0 kHz 2 (Δ) 7 (Δ)</td> <td>5A C 0000 GHz II 3 m 2.458 2 GHz 3.282 3 GHz 4.922 5 GHz 4.922 5 GHz 7.549 2 GHz</td> <td>PNO: Fast FGain:Low</td> <td>VNT g 24 SENSE:INT SENSE:INT Trig: Free Ru #Atten: 30 dB</td> <td>AligNAUT AligNAUT Avg</td> <td>US Emission Type: Log-Pwr Hold: 10/10</td> <td>Mkr</td> <td>93 ms (100</td> <td>06,202 2 3 4 5 NNNN GH: dBn</td>	Analyzer Swept S RF 50 Ω A 13.265000 ef Offset 0.5 dE ef 20.00 dBr 1 2 0 kHz 2 0 kHz 2 (Δ) 7 (Δ)	5A C 0000 GHz II 3 m 2.458 2 GHz 3.282 3 GHz 4.922 5 GHz 4.922 5 GHz 7.549 2 GHz	PNO: Fast FGain:Low	VNT g 24 SENSE:INT SENSE:INT Trig: Free Ru #Atten: 30 dB	AligNAUT AligNAUT Avg	US Emission Type: Log-Pwr Hold: 10/10	Mkr	93 ms (100	06,202 2 3 4 5 NNNN GH: dBn
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RL R enter Freq R odB/div R 0	Analyzer Swept S RF 50 Ω A 13.265000 ef Offset 0.5 dE ef 20.00 dBr 1 2 0 kHz 2 0 kHz 2 (Δ) 7 (Δ)	5A C 0000 GHz II 3 m 2.458 2 GHz 3.282 3 GHz 4.922 5 GHz 4.922 5 GHz 7.549 2 GHz	PNO: Fast FGain:Low	VNT g 24 SENSE:INT SENSE:INT Trig: Free Ru #Atten: 30 dB	AligNAUT AligNAUT Avg	US Emission Type: Log-Pwr Hold: 10/10	Mkr	93 ms (100	06,202 2 3 4 5 NNNN GH: dBn



	trum Analyzer - Swe RF 50 Ω Freq 2.41200	AC 0000 GHz			ALIGNAUTO Avg Type: L		T	3 PM Dec 06, 20 RACE 1 2 3 4 5 TYPE MWANNA
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ilent Spec	trum Analyzer - Swe	pt SA	ious NVN	v 300 kHz NT n20 24′	status 12MHz Em		p 2.95 m	s (1001 pt
ilent Spect	trum Analyzer - Swe RF 50 ລ Freq 13.2650	pt SA AC 00000 GHz	SE	NT n20 24	12MHz Em Alignauto Avg Type: I	ission	о7:33:4 т	11 PM Dec 06, 20 RACE 1 2 3 4 5 TYPE Michael
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RL	Analyzer - Swe RF 50 Ω q 2.43700	AC		SENSE:INT	ALIGNAUTO Avg Type: Lo	og-Pwr	Т	29 PM Dec 06, 202 RACE 1 2 3 4 5
Filler Fre	y 2.43700		PNO: Fast ↔ IFGain:Low	. Trig: Free Run #Atten: 30 dB	Avg Hold: 100			TYPE MWWWWW DET P N N N N
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tes BW 11	DO KHZ Analyzer - Swe RF 50 Ω	pt SA	rious NV	'NT n20 24 SENSE:INT . Trig: Free Run		SSION	ep 2.93 m 07:36:0	s (1001 pts
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lent Spectrun RL anter Fre dB/div 9	00 kHz	pt SA AC 000000 GHz dB	rious NV	'NT n20 24 SENSE:INT . Trig: Free Run	37MHz Emi alignauto Avg Type: Lo	SSION	ep 2.93 m 07:36:0 ™ Mkr1 2.4	s (1001 pts 6 PMDec 06, 202 RACE 1 2 3 4 5 TYPE M WANNA DET P N N N 42 3 GH:
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dB/div 9 00 00 00 00 00 00 00 00 00 00	00 kHz Analyzer - Swe RF 50 ♀ q 13.2650 Ref Offset 0.5 Ref 20.00 d	pt SA AC 000000 GHz dB	rious NV	'NT n20 24 SENSE:INT . Trig: Free Run	37MHz Emi ALIGNAUTO Avg Type: Lo Avg Hold: 10/	SSION	ep 2.93 m 07:36:0 ™ Mkr1 2.4	s (1001 pts 56 PM Dec 06, 202 RACE 1 2 3 4 5 TYPE M WARMAN DET P N N N 42 3 GH: 449 dBn
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dB/div 9 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0	00 kHz RF 50 Q Q 13.2650 Ref 0ffset 0.5 Ref 20.00 d	pt SA AC 000000 GHz dB	PNO: Fast IFGain:Low	'NT n20 24 SENSE:INT . Trig: Free Run		ssion og-Pwr Mo	o7:36:0 T Mkr1 2.4 0.	s (1001 pts 16 PMDec 06,200 RACE 11 2 3 4 5 DET P N N N 42 3 GH 449 dBn -16.88 dB
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Ient Spectrum RL enter Spectrum RL enter Free 000 000 000	200 kHz RF 50 Ω q 13.26500 Ref Offset 0.5 Ref 20.00 d 1 2 2 1 2 00 kHz SCL f (Δ)	pt SA AC 000000 GHz dB Bm ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	rious NV PNO: Fast IFGain:Low	'NT n20 24. SENSE:INT - Trig: Free Run #Atten: 30 dB - W 300 kHz		SSION og-Pwr /10	ep 2.93 m 07:36: Mkr1 2.4 0	s (1001 pts 56 PMDec 06, 202 RACE 1 2 3 4 5 TYPE MWMMM DET P N N N 42 3 GH: 449 dBn
Ient Spectrum RL enter Spectrum RL enter Free 000 000 000	200 kHz RF 50 Ω q 13.2650 Ref Offset 0.5 Ref 20.00 d 0 4 1 2 2 12 00 kHz SCL	pt SA AC 000000 GHz dB Bm	rious NV PNO: Fast IFGain:Low 4 5 #VB 2 (Δ) 0.449 (Δ) 0.449 (Δ) 24.2630	VNT n20 244	37MHz Emi	SSION og-Pwr /10	ep 2.93 m 07:36:0 Mkr1 2.4 0. 0. 5top ep 2.53 s	s (1001 pts D6 PMDec 06,202 RACE 1 2 3 4 5 TYPE MWWWWW 42 3 GH; 449 dBn 16.00 dB
Ient Spectrum RL enter Spectrum RL enter Free 000 000 000	00 kHz RF 50 Ω q 13.2650 Ref Offset 0.5 Ref 20.00 d 1 2 2 1 2 00 kHz 5 6 (Δ) f (Δ) f (Δ)	Pt SA AC O00000 GHz dB Bm 3 3 2.442 3 GH 3.249 6 GH 4.867 8 GH	rious NV PNO: Fast IFGain:Low 4 5 #VB (Δ) 0.449 z (Δ) 0.449 z (Δ) -42.630 z (Δ) -42.630	VNT n20 24: SENSE:INT	37MHz Emi	SSION og-Pwr /10	ep 2.93 m 07:36:0 Mkr1 2.4 0. 0. 5top ep 2.53 s	s (1001 pts D6 PMDec 06,202 RACE 1 2 3 4 5 TYPE MWWWWW 42 3 GH; 449 dBn 16.00 dB
Ient Spectrum RL Bardin Ient Spectrum RL Ient Spectrum Ie	00 kHz	pt SA AC 000000 GHz dB Bm 2.442 3 GH 3.249 6 GH 3.249 6 GH 3.249 6 GH 3.249 7 8 GH	rious NV PNO: Fast IFGain:Low 4 5 #VB (Δ) 0.449 z (Δ) 0.449 z (Δ) -42.630 z (Δ) -42.630	VNT n20 24: SENSE:INT	37MHz Emi	SSION og-Pwr /10	ep 2.93 m 07:36:0 Mkr1 2.4 0. 0. 5top ep 2.53 s	s (1001 pts D6 PMDec 06,202 RACE 1 2 3 4 5 TYPE MWWWWW 42 3 GH; 449 dBn 16.00 dB



	RF 50 Ω /			SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr		07:38:20 PM Dec 06, 20 TRACE 1 2 3 4 5
	104 2.402000		PNO: Fast 🔸	. Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100		DET P N N N
dB/div	Ref Offset 0.5 dl Ref 20.00 dB					Mkr1	2.455 73 GH 3.073 dBr
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les BW	46200 GHz 100 kHz	Tx. Spuri		w 300 кнz NT n20 246	STATUS	•	Span 30.00 MH 93 ms (1001 pt
tes BW	100 kHz	SA	ious NV			•	93 ms (1001 pt: 07:38:57 PMDec 06, 20
es BW	100 kHz Tum Analyzer - Swept	SA AC DOOO GHz	ious NV	NT n20 246	STATUS 62MHz Emissio	on	93 ms (1001 pt: 07:38:57 PMDec 06, 20 TRACE 12 3 4 5 TYPE MWWWW
Res BW	100 kHz rum Analyzer - Swept RF 50 Ω 7 Freq 13.265000 Ref Offset 0.5 dl	sa ac D000 GHz B	OUS NV	NT n20 246	STATUS 62MHz Emissic Alignauto Avg Type: Log-Pwr	n	93 ms (1001 pt: 07:38:57 PMDec 06, 20 TRACE 12 3 4 5 TRACE 12 3 4 5 TRACE 12 3 4 5 TRACE 12 3 4 5
lent Spect RL Panter F	100 kHz Tum Analyzer - Swept RF 50 Ω 7 Freq 13.265000	sa ac D000 GHz B	OUS NV	NT n20 246	STATUS 62MHz Emissic Alignauto Avg Type: Log-Pwr	n	93 ms (1001 pt: 07:38:57 PMDec 06, 20 TRACE 12 3 4 5 TRACE 12 3 4 5 TRACE 12 3 4 5 TRACE 12 3 4 5
dB/div dB/div dB/div dB/div	100 kHz rum Analyzer - Swept RF 50 Ω 7 Freq 13.265000 Ref Offset 0.5 dl	sa ac D000 GHz B	OUS NV	NT n20 246	STATUS 62MHz Emissic Alignauto Avg Type: Log-Pwr	n	93 ms (1001 pt: 07:38:57 PMDec 06, 20 TRACE 12 3 4 5 TRACE 12 3 4 5 TRACE 12 3 4 5 TRACE 12 3 4 5
dB/div g 0.0	100 kHz rum Analyzer - Swept RF 50 Ω 7 Freq 13.265000 Ref Offset 0.5 dl	sa ac D000 GHz B	OUS NV	NT n20 246	STATUS 62MHz Emissic Alignauto Avg Type: Log-Pwr	n	93 ms (1001 pt: 07:38:57 PMDec 06, 20 TRACE 12 3 4 5 TRACE 12 3 5 TRACE 12 5 TRACE
dB/div g dB/div g 0.0	100 kHz rum Analyzer - Swept RF 50 Ω 7 Freq 13.265000 Ref Offset 0.5 dl	sa ac D000 GHz B	OUS NV	NT n20 246	STATUS 62MHz Emissic Alignauto Avg Type: Log-Pwr	n	93 ms (1001 pts 07:38:57 PMDec 05, 20 TRACE 12:34:5 TYPE PNNN 12:456 4 GH -0.901 dBr
dB/div g dB/div g g g g g <	100 kHz rum Analyzer - Swept RF 50 Ω 7 Freq 13.265000 Ref Offset 0.5 dl	sa ac D000 GHz B	OUS NV	NT n20 246	STATUS 62MHz Emissic Alignauto Avg Type: Log-Pwr	Mkr	93 ms (1001 pts 07:38:57 PMDec 05, 20 TRACE 12:34:5 TYPE PNNN 12:456 4 GH -0.901 dBr
dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dB/div g dD d0 g d0 g	100 kHz rum Analyzer - Swept RF 50 Ω 7 Freq 13.265000 Ref Offset 0.5 dl	sa ac D000 GHz B	PNO: Fast	NT n20 246	STATUS 52MHz Emissic Avg Type: Log-Pwr Avg Hold: 10/10	Mkr	Span 30.00 MH 93 ms (1001 pts 07:38:57 PMDec 06, 20 TRACE 1 2 3 45 TYPE P NNNN 1 2.456 4 GH -0.901 dBr
dB/div g a a a b b a a b b a b a a b b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a b a	100 kHz Tum Analyzer - Swept RF 50 Ω → Ref Offset 0.5 dl Ref Offset 0.5 dl Ref 20.00 dB	sa ac D000 GHz B	PNO: Fast	NT n20 246	STATUS 52MHz Emissic Avg Type: Log-Pwr Avg Hold: 10/10	Mkr	93 ms (1001 pt: 07:38:57 PMDec 06, 20 TRACE 1 2 3 4 5 TYPE WWWW DET P NNNN 1 2.456 4 GH -0.901 dBr -16 93 dE
dent Spect a dB/div g anter F anter Spect g 0.0 <td>100 kHz rum Analyzer - Swept RF 50 Ω → Ref Offset 0.5 dl Ref 20.00 dB 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>sa ac D000 GHz B</td> <td>PNC: Fast FGain:Low</td> <td>NT n20 246</td> <td>STATUS</td> <td>Mkr</td> <td>93 ms (1001 pt: 07:38:57 PMDec 06, 20 TRACE 1 2 3 4 5 TYPE WWWW DET P NNNN 1 2.456 4 GH -0.901 dBr -16 93 dE -16 93 dE 5top 26.50 GH .53 s (30001 pt:</td>	100 kHz rum Analyzer - Swept RF 50 Ω → Ref Offset 0.5 dl Ref 20.00 dB 0 0 0 0 0 0 0 0 0 0 0 0 0	sa ac D000 GHz B	PNC: Fast FGain:Low	NT n20 246	STATUS	Mkr	93 ms (1001 pt: 07:38:57 PMDec 06, 20 TRACE 1 2 3 4 5 TYPE WWWW DET P NNNN 1 2.456 4 GH -0.901 dBr -16 93 dE -16 93 dE 5top 26.50 GH .53 s (30001 pt:
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APPENDIX 2-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

******END OF THE REPORT****