Radio Test Report

Report No.:STS2404328W04

Issued for

Buddi Limited

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

Product Name: Buddi Mini

Brand Name: buddi

Model Name: 7600004

Series Model(s): N/A

FCC ID: ZDLST12

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:	Buddi Mini
Brand Name:	buddi
Model Name	7600004
Series Model(s):	N/A
Test Standards	FCC Part 15.247
Test Procedure:	ANSI C63.10-2020

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:	22 Apr. 2024
Date (s) of performance of tests:	22 Apr. 2024 ~ 25 Apr. 2024
Date of Issue:	25 Apr. 2024
Test Result	Pass

÷

Testing Engineer

Aann 13u

(Aaron Bu)

Technical Manager

Authorized Signatory :

(Chris Chen)

hover



61

(Bovey Yang)



	Table of Contents	Page
1	SUMMARY OF TEST RESULTS	6
	1.1 TEST FACTORY	7
	1.2 MEASUREMENT UNCERTAINTY	7
2	GENERAL INFORMATION	8
	2.1 GENERAL DESCRIPTION OF THE EUT	8
	2.2 DESCRIPTION OF THE TEST MODES	10
	2.3 TEST SOFTWARE AND POWER LEVEL	10
	2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	
	2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	11
	2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	12
3	EMC EMISSION TEST	13
	3.1 CONDUCTED EMISSION MEASUREMENT	13
	3.2 RADIATED EMISSION MEASUREMENT	15
4	CONDUCTED SPURIOUS & BAND EDGE EMISSION	27
	4.1 LIMIT 4.2 TEST PROCEDURE	27 27
	4.2 TEST PROCEDURE 4.3 DEVIATION FROM STANDARD	27
	4.4 TEST SETUP	27
	4.5 EUT OPERATION CONDITIONS	27
	4.6 TEST RESULTS	27
5	POWER SPECTRAL DENSITY TEST	28
	5.1 LIMIT	28
	5.2 TEST PROCEDURE	28
	5.3 DEVIATION FROM STANDARD	28
	5.4 TEST SETUP	28
	5.5 EUT OPERATION CONDITIONS	28
	5.6 TEST RESULTS	28
6	BANDWIDTH TEST	29
		29
	6.2 TEST PROCEDURE	29 20
	6.3 DEVIATION FROM STANDARD 6.4 TEST SETUP	29 29
	6.5 EUT OPERATION CONDITIONS	29
		20



Table of Contents	Page
6.6 TEST RESULTS	29
7. PEAK OUTPUT POWER TEST	30
7.1 LIMIT	30
7.2 TEST PROCEDURE	30
7.3 DEVIATION FROM STANDARD	30
7.4 TEST SETUP	31
7.5 EUT OPERATION CONDITIONS	31
7.6 TEST RESULTS	31
8. ANTENNA REQUIREMENT	32
8.1 STANDARD REQUIREMENT	32
8.2 EUT ANTENNA	32
APPENDIX 1-TEST DATA	33
1. DUTY CYCLE	33
2. MAXIMUM AVERAGE CONDUCTED OUTPUT POWER	39
3. MAXIMUM PEAK CONDUCTED OUTPUT POWER	45
46DB BANDWIDTH	46
5. MAXIMUM POWER SPECTRAL DENSITY LEVEL	52
6. BAND EDGE	58
7. CONDUCTED RF SPURIOUS EMISSION	65
APPENDIX 2-PHOTOS OF TEST SETUP	75



Page 5 of 75

Report No.: STS2404328W04

Revision History

ſ	Rev.	Issue Date	Report No.	Effect Page	Contents
	00	25 Apr. 2024	STS2404328W04	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 C63.10-2020.



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

Page 7 of 75

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	±0.755dB
2	Unwanted Emissions, conducted	±2.874dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.18dB
5	All emissions, radiated 1G-6GHz	±4.90dB
6	All emissions, radiated>6G	±5.24dB
7	7 Conducted Emission (9KHz-150KHz)	
8	Conducted Emission (150KHz-30MHz)	±2.53dB
9	Occupied Channel Bandwidth	±3.5%
10	Power Spectral Density, conducted	±1.245dB
11	Duty Cycle	±3.2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Buddi Mini		
Brand Name	buddi	6 6	
Model Name	7600004	T T	
Series Model(s)	N/A		
Model Difference	N/A		
Product Description	The EUT is a Budd Operation Frequency: Modulation Type: Bit Rate of Transmitter: Number of Channel: Antenna Type: Antenna Gain (dBi	802.11b/g/n 20: 2412~2462 MHz 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,6 802.11n(OFDM):BPSK,QPSK,16-QAM,6 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps 802.11b/g/n20: 11CH SMD	
Channel List	Please refer to the	Note 3.	
Adapter	Input: 100-240V~, 50/60Hz, 0.3A Output: DC 5V, 1.2A		
Battery	Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 1200mAh		
Hardware version number	v14.0		
Software version number	1.42.0	6 6	
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.



3.

Operation Frequency of channel				
802.11b/g/n(20MHz)				
Channel	Frequency			
01	2412			
02	2417			
03	2422			
04	2427			
05	2432			
06	2437			
07	2442			
08	2447			
09	2452			
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 avaiable U.S. voltage (DC 3.7V) for which the device is capable of operation, and the worst case of 3.7V 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

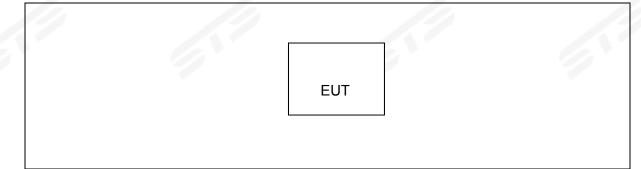
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
$MM = I(2 \Delta (4))$		802.11b	3.5	Default	The EUT has signal transmission
	2.4G WIFI	2.4G 802.11g		Default	
		802.11n(HT20)		Default	when it is 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.

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

Support units

Ite	em	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N	/A	N/A	N/A	N/A	N/A	N/A

Note:

(1) For detachable type I/O cable should be specified the length in cm in $^{\mathbb{F}}$ Length $_{\mathbb{F}}$ column.

(2) "YES" is means "with core"; "NO" is means "without core".





2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2024.02.23	2025.02.22
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2023.09.26	2024.09.25
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2024.02.23	2025.02.22
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2025.02.27
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	2024.09.2
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	2024.02.23	2025.02.22
Power Sensor	Keysight	U2021XA	MY55520005	2023.09.26	2024.09.25
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW	MW		MTS 8310_2.0).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.

	Conducted Emissionlimit (dBuV)		
FREQUENCY (MHz)	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

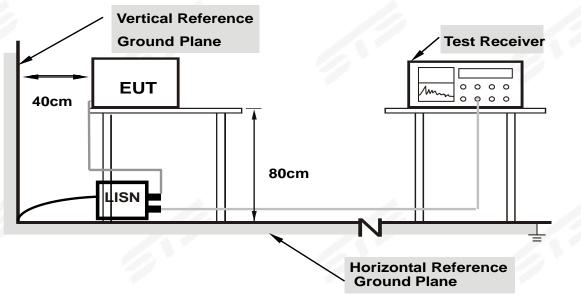
Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	



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: denotes test is not applicable in this test Report.



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 C63.10-2020 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)

FREQUENCY (MHz)	(dBuV/	(dBuV/m) (at 3M)		
FREQUENCT (MITZ)	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)

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)	

	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)		
F	For Restricted band			

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

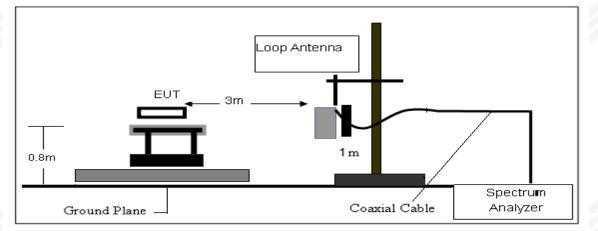
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the 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.

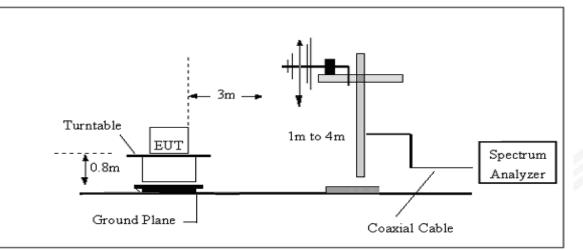


3.2.3 TEST SETUP

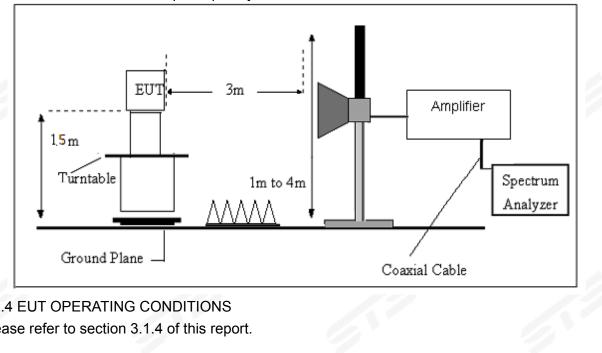
(A) Radiated Emission Test-Up Frequency Below 30MHz

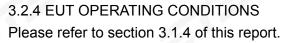


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(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 StrengthCL = Cable Attenuation Factor

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 1~9 (Mode 1worst mode)	2	0

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	35.8200	37.95	-15.91	22.04	40.00	-17.96	peak
2	94.0200	41.82	-20.89	20.93	43.50	-22.57	peak
3	270.5600	32.38	-15.34	17.04	46.00	-28.96	peak
4	434.4900	29.80	-10.12	19.68	46.00	-26.32	peak
5	633.3400	29.82	-4.98	24.84	46.00	-21.16	peak
6	967.0200	28.26	1.93	30.19	54.00	-23.81	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.





Temperature:	23.1(C)	Relative Humidtity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	Mode 1~9 (Mode 1worst mode)	11	

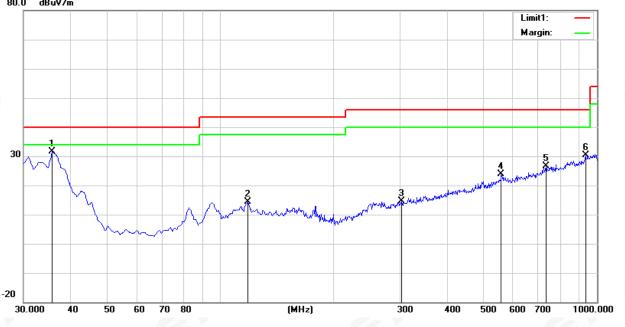
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	35.8200	47.46	-15.91	31.55	40.00	-8.45	peak
2	118.2700	32.69	-18.43	14.26	43.50	-29.24	peak
3	302.5700	29.38	-14.72	14.66	46.00	-31.34	peak
4	558.6500	29.46	-5.52	23.94	46.00	-22.06	peak
5	733.2500	28.90	-2.35	26.55	46.00	-19.45	peak
6	935.0100	29.39	0.96	30.35	46.00	-15.65	peak

Remark:.

2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

3. All modes have been tested, only show the worst case.

80.0 dBuV/m



^{1.} Margin = Result (Result = Reading + Factor)–Limit



(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 Ch	annel (802.11g	/2412 MHz)	•			<u>.</u>
3264.63	61.06	44.70	6.70	28.20	-9.80	51.26	74.00	-22.74	PK	Vertical
3264.63	51.51	44.70	6.70	28.20	-9.80	41.71	54.00	-12.29	AV	Vertical
3264.80	62.07	44.70	6.70	28.20	-9.80	52.27	74.00	-21.73	PK	Horizontal
3264.80	50.93	44.70	6.70	28.20	-9.80	41.13	54.00	-12.87	AV	Horizontal
4824.40	59.35	44.20	9.04	31.60	-3.56	55.79	74.00	-18.21	PK	Vertical
4824.40	50.16	44.20	9.04	31.60	-3.56	46.60	54.00	-7.40	AV	Vertical
4824.56	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Horizontal
4824.56	49.68	44.20	9.04	31.60	-3.56	46.12	54.00	-7.88	AV	Horizontal
5359.63	49.41	44.20	9.86	32.00	-2.34	47.07	74.00	-26.93	PK	Vertical
5359.63	39.55	44.20	9.86	32.00	-2.34	37.21	54.00	-16.79	AV	Vertical
5359.58	48.27	44.20	9.86	32.00	-2.34	45.93	74.00	-28.07	PK	Horizontal
5359.58	38.75	44.20	9.86	32.00	-2.34	36.41	54.00	-17.59	AV	Horizontal
7235.76	53.96	43.50	11.40	35.50	3.40	57.36	74.00	-16.64	PK	Vertical
7235.76	43.92	43.50	11.40	35.50	3.40	47.32	54.00	-6.68	AV	Vertical
7235.75	54.27	43.50	11.40	35.50	3.40	57.67	74.00	-16.33	PK	Horizontal
7235.75	44.86	43.50	11.40	35.50	3.40	48.26	54.00	-5.74	AV	Horizontal
		•		Middle C	hannel (802.11	g/2437 MHz)	•		•	
3264.69	61.67	44.70	6.70	28.20	-9.80	51.87	74.00	-22.13	PK	Vertical
3264.69	50.07	44.70	6.70	28.20	-9.80	40.27	54.00	-13.73	AV	Vertical
3264.85	61.49	44.70	6.70	28.20	-9.80	51.69	74.00	-22.31	PK	Horizontal
3264.85	50.54	44.70	6.70	28.20	-9.80	40.74	54.00	-13.26	AV	Horizontal
4874.52	58.11	44.20	9.04	31.60	-3.56	54.55	74.00	-19.45	PK	Vertical
4874.52	49.24	44.20	9.04	31.60	-3.56	45.68	54.00	-8.32	AV	Vertical
4874.32	58.14	44.20	9.04	31.60	-3.56	54.58	74.00	-19.42	PK	Horizontal
4874.32	49.11	44.20	9.04	31.60	-3.56	45.55	54.00	-8.45	AV	Horizontal
5359.70	48.91	44.20	9.86	32.00	-2.34	46.57	74.00	-27.43	PK	Vertical
5359.70	40.06	44.20	9.86	32.00	-2.34	37.72	54.00	-16.28	AV	Vertical
5359.61	47.20	44.20	9.86	32.00	-2.34	44.86	74.00	-29.14	PK	Horizontal
5359.61	38.71	44.20	9.86	32.00	-2.34	36.37	54.00	-17.63	AV	Horizontal
7310.94	54.87	43.50	11.40	35.50	3.40	58.27	74.00	-15.73	PK	Vertical
7310.94	43.78	43.50	11.40	35.50	3.40	47.18	54.00	-6.82	AV	Vertical
7310.69	54.98	43.50	11.40	35.50	3.40	58.38	74.00	-15.62	PK	Horizontal
7310.69	44.85	43.50	11.40	35.50	3.40	48.25	54.00	-5.75	AV	Horizontal

802.11 g



Report No.: STS2404328W04

				High Chan	nel (802.11g	/2462 MHz)				
3264.66	61.14	44.70	6.70	28.20	-9.80	51.34	74.00	-22.66	PK	Vertical
3264.66	50.12	44.70	6.70	28.20	-9.80	40.32	54.00	-13.68	AV	Vertical
3264.66	60.95	44.70	6.70	28.20	-9.80	51.15	74.00	-22.85	PK	Horizontal
3264.66	49.98	44.70	6.70	28.20	-9.80	40.18	54.00	-13.82	AV	Horizontal
4924.52	59.32	44.20	9.04	31.60	-3.56	55.76	74.00	-18.24	PK	Vertical
4924.52	49.19	44.20	9.04	31.60	-3.56	45.63	54.00	-8.37	AV	Vertical
4924.57	58.70	44.20	9.04	31.60	-3.56	55.14	74.00	-18.86	PK	Horizontal
4924.57	50.42	44.20	9.04	31.60	-3.56	46.86	54.00	-7.14	AV	Horizontal
5359.68	48.92	44.20	9.86	32.00	-2.34	46.58	74.00	-27.42	PK	Vertical
5359.68	39.50	44.20	9.86	32.00	-2.34	37.16	54.00	-16.84	AV	Vertical
5359.86	47.36	44.20	9.86	32.00	-2.34	45.02	74.00	-28.98	PK	Horizontal
5359.86	38.80	44.20	9.86	32.00	-2.34	36.46	54.00	-17.54	AV	Horizontal
7385.75	54.05	43.50	11.40	35.50	3.40	57.45	74.00	-16.55	PK	Vertical
7385.75	44.26	43.50	11.40	35.50	3.40	47.66	54.00	-6.34	AV	Vertical
7385.69	53.78	43.50	11.40	35.50	3.40	57.18	74.00	-16.82	PK	Horizontal
7385.69	44.07	43.50	11.40	35.50	3.40	47.47	54.00	-6.53	AV	Horizontal

Remark:

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

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

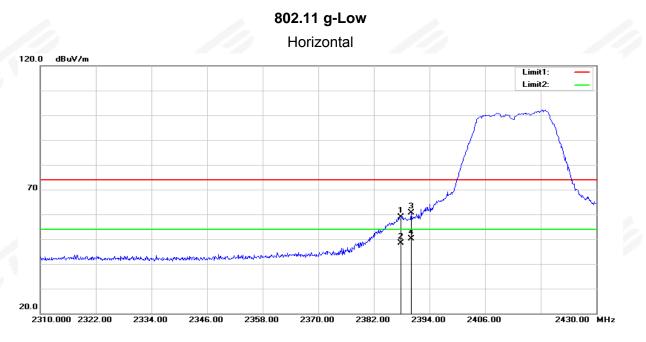
Margin = Emission Level-Limit

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

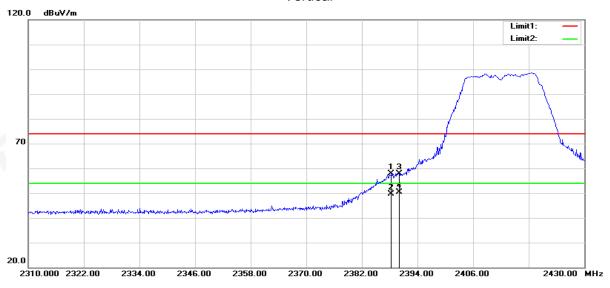
the limit, the frequency emission is mainly from the environment noise.



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	2387.880	54.46	4.31	58.77	74.00	-15.23	peak
2	2387.880	44.14	4.31	48.45	54.00	-5.55	AVG
3	2390.000	56.39	4.34	60.73	74.00	-13.27	peak
4	2390.000	45.67	4.34	50.01	54.00	-3.99	AVG

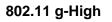


Reading No. Frequency Correct Result Limit Margin Remark (MHz) (dBuV) Factor(dB/m) (dBuV/m) (dBuV/m) (dB) 74.00 1 2388.360 53.55 4.31 57.86 -16.14 peak 2 2388.360 45.41 4.31 49.72 54.00 -4.28 AVG 2390.000 53.50 4.34 57.84 74.00 -16.16 3 peak 4 2390.000 46.15 4.34 50.49 54.00 -3.51 AVG

Vertical



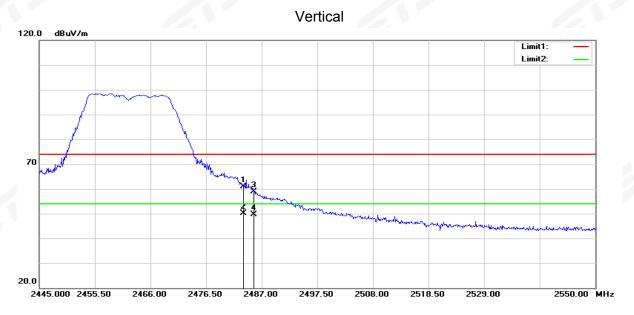








No.	Frequency	Reading	Correct	Result	Result Limit		Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	56.90	4.60	61.50	74.00	-12.50	peak
2	2483.500	45.53	4.60	50.13	54.00	-3.87	AVG
3	2485.635	56.55	4.61	61.16	74.00	-12.84	peak
4	2485.635	43.59	4.61	48.20	54.00	-5.80	AVG



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	56.19	4.60	60.79	74.00	-13.21	peak
2	2483.500	45.43	4.60	50.03	54.00	-3.97	AVG
3	2485.530	54.28	4.61	58.89	74.00	-15.11	peak
4	2485.530	45.01	4.61	49.62	54.00	-4.38	AVG

Note: 802.11b, 802.11g, 802.11n (HT-20), mode all have been tested, the worst case is 802.11g, 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 Deremeter	Satting		
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			
Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	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 Part15.247, 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

i.					11 M
	FCC Part15.247,Subpart 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

FCC Part15.247,Subpart 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 \times 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.

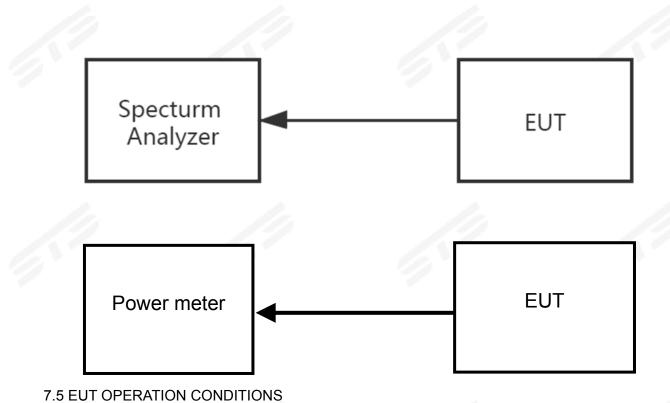
h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear 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	47.98	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	47.68	3.22	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



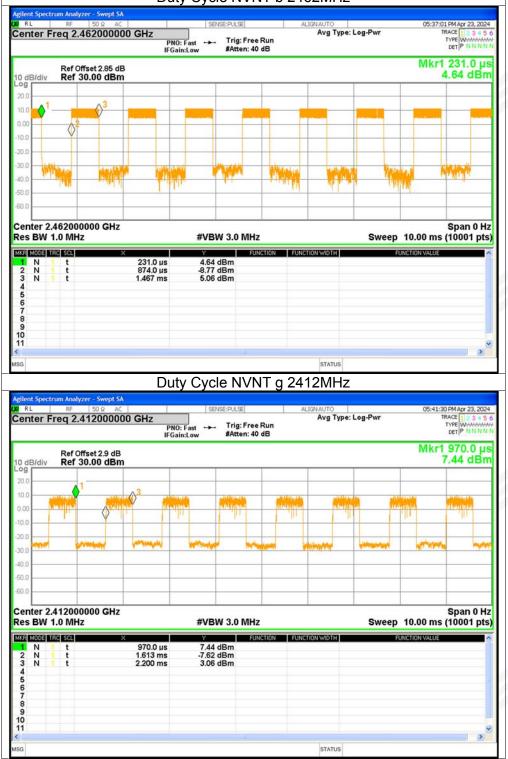
Page 34 of 75

Test Graphs Duty Cycle NVNT b 2412MHz 05:31:35 PM Apr 23, 2024 Center Freq 2.412000000 GHz Avg Type: Log-Pwr RACE Trig: Free Run #Atten: 40 dB PNO: Fast IFGain:Low TYPE W Mkr1 580.0 µs -8.57 dBm Ref Offset 2.9 dB Ref 30.00 dBm 10 dB/div 20 10 20.1 30. 40. 50.1 60. Center 2.412000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 10.00 ms (10001 pts) #VBW 3.0 MHz MKR MODE TRC SCL FUNCTION WIDTH 580.0 µs 1.223 ms 1.816 ms -8.57 dBm 7.61 dBm -3.71 dBm N N N 2 3 4 5 6 7 8 9 10 t > STATUS SG Duty Cycle NVNT b 2437MHz nt Spectrum Analyzer Swept SA 32 PM Apr 23, 2024 Center Freq 2.437000000 GHz Avg Type: Log-Pwr RACE PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 40 dB DET P NNNN Mkr1 550.0 µs 5.23 dBm Ref Offset 2.88 dB Ref 30.00 dBm 0 dB/di 20.0 30. 40.1 50.1 Center 2.437000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 10.00 ms (10001 pts) #VBW 3.0 MHz MKR MODE TRC SCL FUNCTION FUNCTION WIDTH ICTION VALUE 550.0 µs 1.193 ms 1.786 ms 5.23 dBm 5.00 dBm 4.65 dBm N N N **1** 2 3 4 5 6 7 8 9 10 11 t STATUS

1



Duty Cycle NVNT b 2462MHz











Duty Cycle NVNT n20 2412MHz





Duty Cycle NVNT n20 2462MHz



















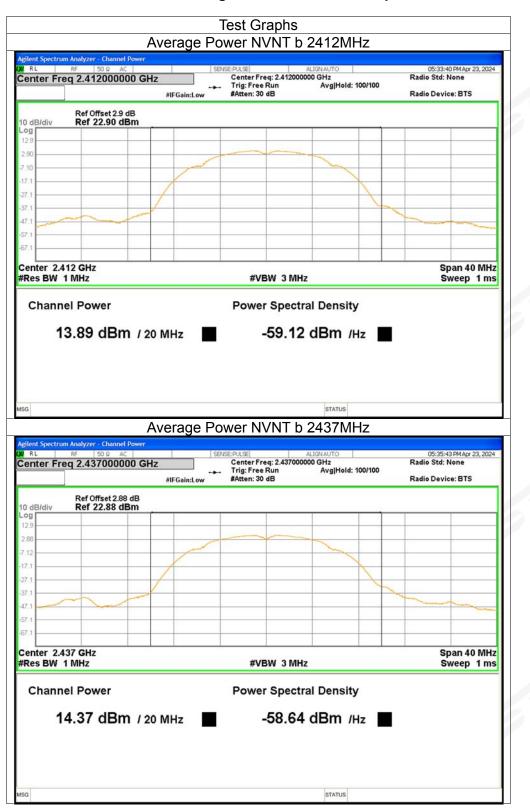


2. Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	13.89	3.19	17.08	<=30	Pass
NVNT	b	2437	14.37	3.19	17.56	<=30	Pass
NVNT	b	2462	13.67	3.19	16.86	<=30	Pass
NVNT	g	2412	12.52	3.21	15.73	<=30	Pass
NVNT	g	2437	12.26	3.22	15.48	<=30	Pass
NVNT	g	2462	12.28	3.21	15.49	<=30	Pass
NVNT	n20	2412	11.43	3.31	14.74	<=30	Pass
NVNT	n20	2437	11.8	3.31	15.11	<=30	Pass
NVNT	n20	2462	12.8	3.31	16.11	<=30	Pass



Page 40 of 75





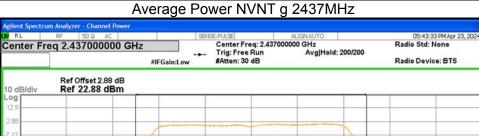


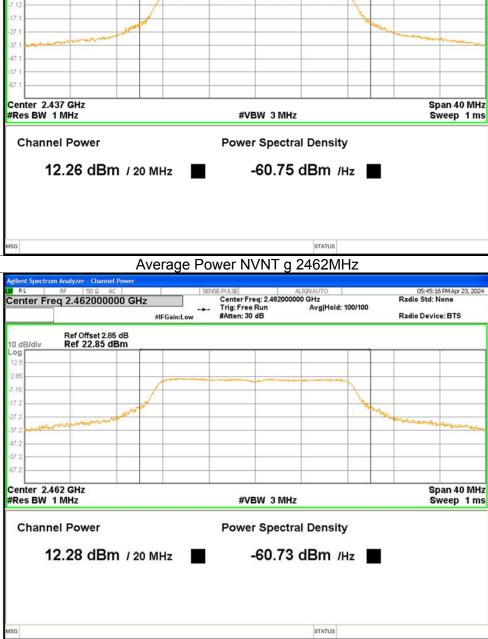
STATUS



RL

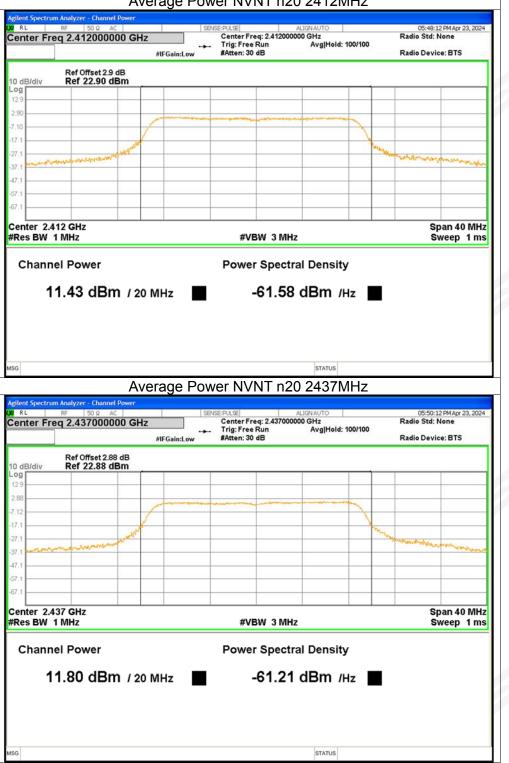
10 dB/div po.







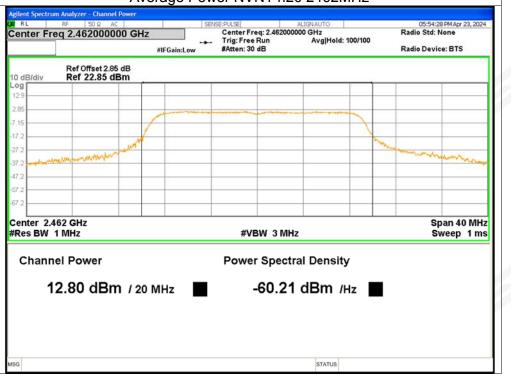






Page 44 of 75

Average Power NVNT n20 2462MHz





3. Maximum Peak Conducted Output Power

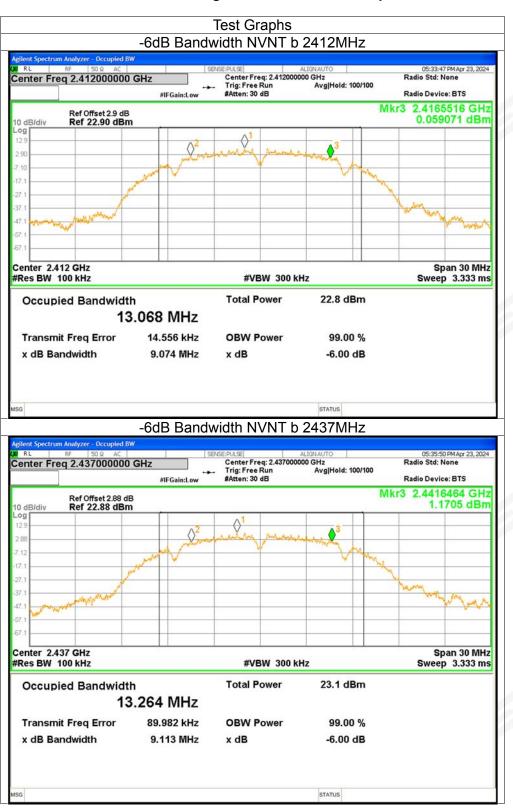
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	19.9	<=30	Pass
NVNT	b	2437	20.26	<=30	Pass
NVNT	b	2462	19.89	<=30	Pass
NVNT	g	2412	22.41	<=30	Pass
NVNT	g	2437	21.86	<=30	Pass
NVNT	g	2462	21.7	<=30	Pass
NVNT	n20	2412	22.33	<=30	Pass
NVNT	n20	2437	21.61	<=30	Pass
NVNT	n20	2462	21.68	<=30	Pass



4. -6dB Bandwidth

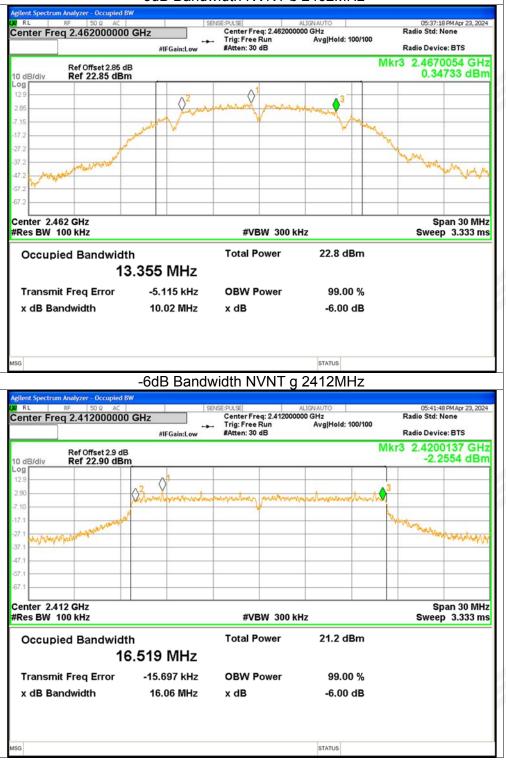
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	9.0741	>=0.5	Pass
NVNT	b	2437	9.1128	>=0.5	Pass
NVNT	b	2462	10.021	>=0.5	Pass
NVNT	g	2412	16.0588	>=0.5	Pass
NVNT	g	2437	15.9338	>=0.5	Pass
NVNT	g	2462	16.2979	>=0.5	Pass
NVNT	n20	2412	17.5349	>=0.5	Pass
NVNT	n20	2437	16.9182	>=0.5	Pass
NVNT	n20	2462	17.5454	>=0.5	Pass





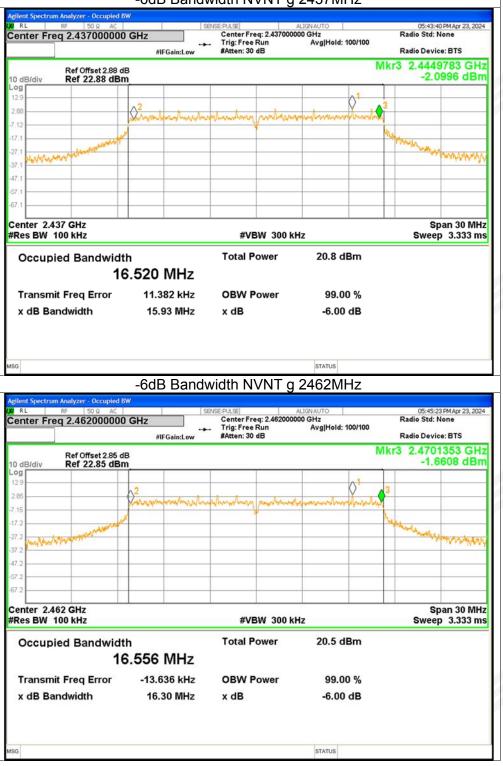


-6dB Bandwidth NVNT b 2462MHz



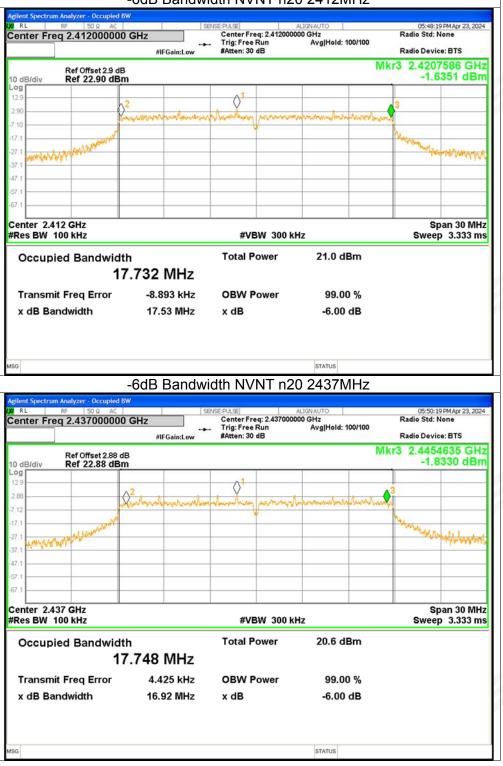


-6dB Bandwidth NVNT g 2437MHz



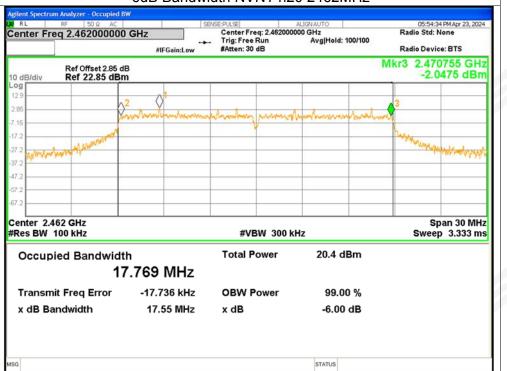


-6dB Bandwidth NVNT n20 2412MHz



















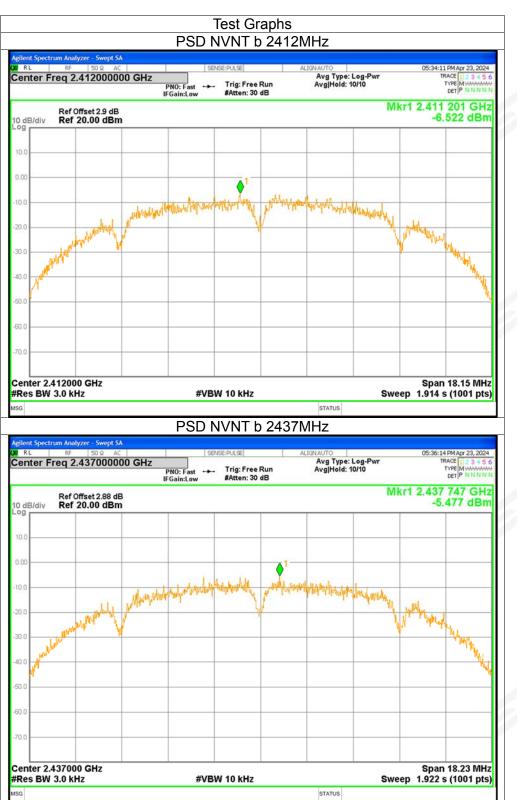


5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-6.52	<=8	Pass
NVNT	b	2437	-5.48	<=8	Pass
NVNT	b	2462	-6.69	<=8	Pass
NVNT	g	2412	-9.65	<=8	Pass
NVNT	g	2437	-9.84	<=8	Pass
NVNT	g	2462	-11.16	<=8	Pass
NVNT	n20	2412	-10.21	<=8	Pass
NVNT	n20	2437	-10.38	<=8	Pass
NVNT	n20	2462	-10.75	<=8	Pass



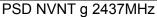
Page 53 of 75

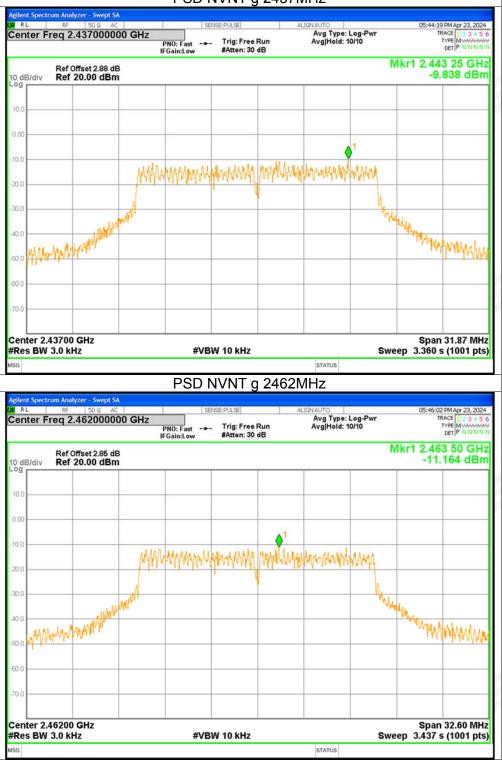




PSD NVNT b 2462MHz 05:37:44 PMApr 23, 2024 TRACE 12 3 4 5 6 TYPE MMMMMM DET P NNNN RL SENSE:PULSE Center Freq 2.462000000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10 + Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Low Mkr1 2.460 958 GHz Ref Offset 2.85 dB Ref 20.00 dBm -6.690 dBm 10 dB/div 0.0 0 him have been a haya 20.0 will 30.0 40.0 50.0 60. Center 2.46200 GHz Span 20.04 MHz #VBW 10 kHz #Res BW 3.0 kHz Sweep 2.113 s (1001 pts) STATUS 0.21 PSD NVNT g 2412MHz Spectrum Analyzer - Sv RL 05:42:27 PM Apr 23, 2024 Center Freg 2.412000000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10 DET P NNNN PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.418 26 GHz Ref Offset 2.9 dB Ref 20.00 dBm -9.645 dBm 10 dB/div 0.0 MANAMMANAMAMMAM mollimiteriality 20. 30.0 MANNAM MANNAM ed in 40.0 MWWWWWW 50.0 60.0 Center 2.41200 GHz Span 32.12 MHz #VBW 10 kHz #Res BW 3.0 kHz Sweep 3.387 s (1001 pts) STATUS SG

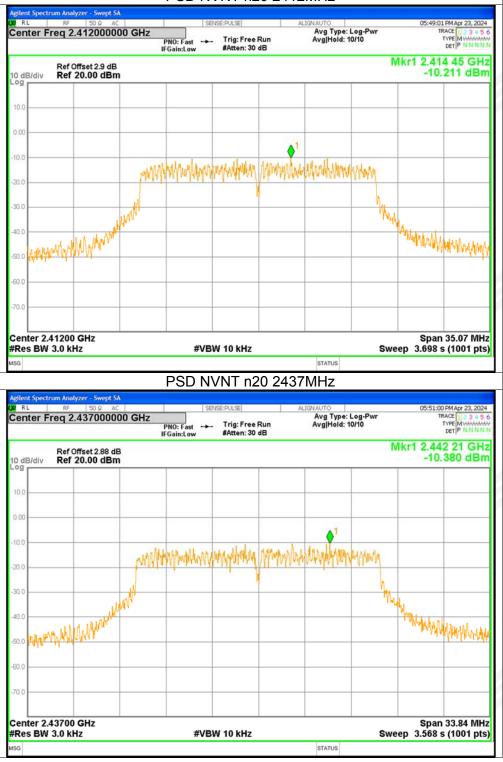








PSD NVNT n20 2412MHz





Page 57 of 75

RL	rum Analyzer - Swept SA RF 50 Ω AC		s	ENSE:PULSE	A	LIGNAUTO	Les Der		6 PM Apr 23, 2024
enter F	req 2.46200000	P	NO: Fast ++ Gain:Low	. Trig: Free #Atten: 30	Run dB	Avg Type: Avg Hold: 1	0/10	2	TYPE MWWWWW DET P NNNNN
0 dB/div	Ref Offset 2.85 dB Ref 20.00 dBm						ľ		61 02 GHz .749 dBm
0.0									
00									
0.0		wind	Whither	hindra wilden an	1. Muturlas	Hadden	a handow		
0.0		N 19191	11 olasi.	And a think and	Int	Ao Ka kili su uk	A 1 mpor		
10.0	- Mult	A.C.					"hydrewed a start with the start wit	4au	
0.0 MM	MAN WWW							- manageth	halland
0.0									
0.0									
enter 2. Res BW	46200 GHz 3.0 kHz		#\/F	3W 10 kHz			Sw	Spar	n 35.09 MHz s (1001 pts)
SG	5.0 KH2		#VL	NY IO KHZ		STATUS	SW	5ch 21100	5 (1001 pts)



6. Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-46.87	<=-20	Pass
NVNT	b	2462	-52.84	<=-20	Pass
NVNT	g	2412	-30.83	<=-20	Pass
NVNT	g	2462	-40.72	<=-20	Pass
NVNT	n20	2412	-31.14	<=-20	Pass
NVNT	n20	2462	-38.15	<=-20	Pass



















Page 59 of 75





Band Edge NVNT b 2462MHz Ref 05:37:49 PM Apr 23, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNN RL NSE:PULSE Center Freq 2.462000000 GHz Avg Type: Log-Pwi Avg|Hold: 100/100 + Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Low Mkr1 2.460 98 GHz Ref Offset 2.85 dB Ref 20.00 dBm 7.064 dBm 10 dB/div mann 0.0 20.0 30. 40.0 M 50.0 60. Center 2.46200 GHz Span 30.00 MHz #VBW 300 kHz Sweep 2.933 ms (1001 pts) #Res BW 100 kHz 0.21 STATUS Band Edge NVNT b 2462MHz Emission I Sp RL 05:37:52 PM Apr 23, 2024 Center Freq 2.497000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 DET P NNNN + Trig: Free Run #Atten: 30 dB PNO: Fast Mkr1 2.460 5 GHz 7.600 dBm Ref Offset 2.85 dB Ref 20.00 dBm 10 dB/div Log ۵ 10.0 20. 30.1 02 40.1 0 $()^{3}$ Stop 2.54700 GHz Start 2.44700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) MKR MODE TRC SCL INCTION FUNCTION WIDTH 7.600 dBm -46.358 dBm -54.884 dBm -45.782 dBm 2.460 5 GHz 2.483 5 GHz 2.500 0 GHz 2.488 0 GHz ZZZZ 2 3 4 5 6 7 8 9 10 11 STATUS SG



nt Spectrum Analyzer IL RF 50 nter Freq 2.412	0000000 GHz): Fast Trig: Free in:Low #Atten: 30		DET P NNNN
B/div Ref 20.00				Mkr1 2.414 49 GHz 4.957 dBm
			1	
	1.1.	And	and the second	6
	MA TO A TO A	and a second	A Martinetic	
	with			mylan
my my profession	N. W.			Model white and
WARAN WIT				a states fills
ter 2.41200 GHz				Span 30.00 MHz
s BW 100 kHz		#VBW 300 kHz	S	weep 2.933 ms (1001 pts)
s BW 100 kHz			STATUS	weep 2.933 ms (1001 pts)
				weep 2.933 ms (1001 pts)
nt Spectrum Analyzer - : L RF 50	Swept SA	Ige NVNT g 2	STATUS 2412MHz Emission ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 ms (1001 pts)
nt Spectrum Analyzer - : L RF 50	Swept SA) Q AC 0 0000000 GHz PN0	lge NVNT g 2	ALIGNAUTO Avg Type: Log-Pwr Run AvgHold: 100/100	05:42:34 PM Apr 23, 2024 TRACE 10 3 4 5 6
nt Spectrum Analyzer - 1 L RF Sc tter Freq 2.377 Ref Offset B/div Ref 20.0	Swept SA D & AC 0000000 GHz PNC IFGa 2.9 dB	Ige NVNT g 2	ALIGNAUTO Avg Type: Log-Pwr Run AvgHold: 100/100	weep 2.933 ms (1001 pts)
It Spectrum Analyzer - L RF SC Iter Freq 2.377 Ref Offset B/div Ref 20.00	Swept SA D & AC 0000000 GHz PNC IFGa 2.9 dB	Ige NVNT g 2	ALIGNAUTO Avg Type: Log-Pwr Run AvgHold: 100/100	05:42:34 PM Apr 23, 2024 10:42:34 PM Apr 23, 2024 10:42:42 PM Apr 24, 2025 10:42:42 PM Apr 24, 2025 10:42:42 PM Apr 24, 2025 10:42:42 PM Apr 24, 2025 10:42:42 PM Apr 24, 2025 10:42:42
nter Freq 2.377 Ref Offset	Swept SA D & AC 0000000 GHz PNC IFGa 2.9 dB	Ige NVNT g 2	ALIGNAUTO Avg Type: Log-Pwr Run AvgHold: 100/100	05:42:34 PM Apr 23, 2024 TRACE 12:3 4 5 TRACE 12:3 4 5 TYPE DET P NNNN Mkr1 2.405 7 GHz 5.089 dBm
nt Spectrum Analyzer - L RF S tter Freq 2.377 Ref Offset IB/div Ref 20.00	Swept SA DR AC PRO PRO IFGa 2.9 dB	Ige NVNT g 2	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100 dB	05:42:34 PM Apr 23, 2024 10:42:34 PM Apr 23, 2024 10:42:42 PM Apr 24, 2025 10:42:42 PM Apr 24, 2025 10:42:42 PM Apr 24, 2025 10:42:42 PM Apr 24, 2025 10:42:42 PM Apr 24, 2025 10:42:42
nt Spectrum Analyzer - St L RF St Iter Freq 2.377 B/div Ref Offset	Swept SA DR AC PRO PRO IFGa 2.9 dB	Ige NVNT g 2	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100 dB	05:42:34 PM Apr 23, 2024 TRACE 12:3 4 5 TRACE 12:3 4 5 TYPE DET P NNNN Mkr1 2.405 7 GHz 5.089 dBm
nt Spectrum Analyzer - St L RF St Iter Freq 2.377 B/div Ref Offset	Swept SA DR AC PRO PRO IFGa 2.9 dB	Ige NVNT g 2	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100 dB	05:42:34 PM Apr 23, 2024 TRACE 12:3 4 5 TRACE 12:3 4 5 TYPE DET P NNNN Mkr1 2.405 7 GHz 5.089 dBm
nt Spectrum Analyzer - St L RF St tter Freq 2.377 B/div Ref Offset	Swept SA DR AC PRO PRO IFGa 2.9 dB	Ige NVNT g 2	ALIGNAUTO AVIG Type: Log-Pwr AvigHold: 100/100	05:42:34 PM Apr 23, 2024 TRACE 12:3 4 5 TRACE 12:3 4 5 TYPE DET P NNNN Mkr1 2.405 7 GHz 5.089 dBm
nt Spectrum Analyzer - 50 tter Freq 2.377 Ref Offset B/div Ref 20.00 	Swept SA DR AC PRO PRO IFGa 2.9 dB	Ige NVNT g 2	ALIGNAUTO ALIGNAUTO Run Avg Hold: 100/100 B	2.933 ms (1001 pts)
nt Spectrum Analyzer - St L RF St tter Freq 2.377 B/div Ref Offset B/div Ref 20.00 C Ref 20	Swept SA DR AC 000000 GHz PNG IFGa 2.9 dB 0 dBm	Ige NVNT g 2	ALIGNAUTO ALIGNAUTO Run Avg Hold: 100/100 B	05:42:34 PMApr 23, 2024
Ref Offset B/div Ref 2.377	Swept SA P 000000 GHz PNC PRO PNC 2.9 dB 0 0 dBm 0 2.405 7 GHz 2.400 0 GHz 2.400 0 GHz 2.400 0 GHz	Ige NVNT g 2 SENSE:PUSE : Fast Trig: Free #Atten: 30 #Atten: 30 #VBW 300 kHz *VBW 300 kHz \$ 5.089 dBm -29.257 dBm	STATUS 2412MHz Emission Avg Type: Log-Pwr Avg Hold: 100/100 dB	05:42:34 PM Apr 23, 2024 TRACE 12:3:3:5 Mkr1 2.405 T GHz 5.089 dBm 10:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:
nt Spectrum Analyzer - St L RF SC Iter Freq 2.377 B/div Ref Offset B/div Ref 20.00 	Swept SA 20 AC 0 PNC IFGa 2.9 dB 0 dBm 	Ige NVNT g 2	STATUS 2412MHz Emission Avg Type: Log-Pwr Avg Hold: 100/100 dB	05:42:34 PM Apr 23, 2024 TRACE 12:3:3:5 Mkr1 2.405 T GHz 5.089 dBm 10:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:
Ref Offset B/div Ref 2.377	Swept SA P 000000 GHz PNC PRO PNC 2.9 dB 0 0 dBm 0 2.405 7 GHz 2.400 0 GHz 2.400 0 GHz 2.400 0 GHz	Ige NVNT g 2 SENSE:PUSE : Fast Trig: Free #Atten: 30 #Atten: 30 #VBW 300 kHz *VBW 300 kHz \$ 5.089 dBm -29.257 dBm	STATUS 2412MHz Emission Avg Type: Log-Pwr Avg Hold: 100/100 dB	05:42:34 PM Apr 23, 2024 TRACE 12:3:3:5 Mkr1 2.405 T GHz 5.089 dBm 10:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:



Band Edge NVNT g 2462MHz Ref 05:46:07 PM Apr 23, 2024 TRACE 12 3 4 5 6 TYPE MWWWWW DET P NNNN RL NSE:PULSE Center Freq 2.462000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 + Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Low Mkr1 2.455 73 GHz Ref Offset 2.85 dB Ref 20.00 dBm 4.553 dBm 10 dB/div 0.0 20.0 w 30.0 40.0 50.0 60.0 Center 2.46200 GHz Span 30.00 MHz #VBW 300 kHz Sweep 2.933 ms (1001 pts) #Res BW 100 kHz STATUS 0.21 Band Edge NVNT g 2462MHz Emission I Sp RL 15:46:10 PM Apr 23, 2024 Center Freg 2.497000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 TYPE MWWWW DET P NNNN PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.469 5 GHz Ref Offset 2.85 dB Ref 20.00 dBm 4.109 dBm 10 dB/div Log 10.0 WO2 30.1 40.1 O^3 80 Stop 2.54700 GHz Start 2.44700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) MKR MODE TRC SCL UNCTION FUNCTION WIDTH 4.109 dBm -36.171 dBm -53.568 dBm -36.171 dBm 2.469 5 GHz 2.483 5 GHz 2.500 0 GHz 2.483 5 GHz ZZZZ 2 3 4 5 6 7 8 9 10 11 STATUS SG



Band Edge NVNT n20 2412MHz Ref



10



Band Edge NVNT n20 2462MHz Ref



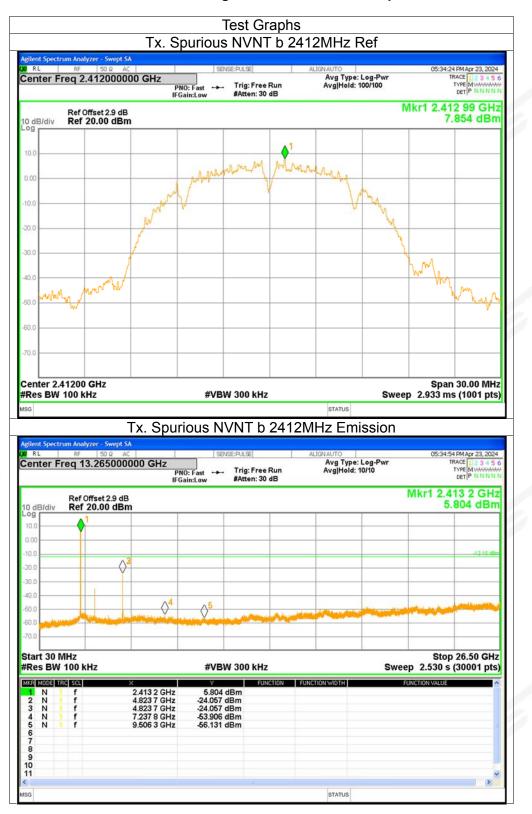


7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-31.9	<=-20	Pass
NVNT	b	2437	-27.64	<=-20	Pass
NVNT	b	2462	-29.03	<=-20	Pass
NVNT	g	2412	-40.21	<=-20	Pass
NVNT	g	2437	-33.37	<=-20	Pass
NVNT	g	2462	-38.61	<=-20	Pass
NVNT	n20	2412	-37.75	<=-20	Pass
NVNT	n20	2437	-35.87	<=-20	Pass
NVNT	n20	2462	-40.21	<=-20	Pass



Page 66 of 75





RL RF	r - Swept SA 50 Ω AC 37000000 GHz	PNO: Fast	NSE:PULSE Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Lo Avg[Hold: 100	g-Pwr /100	05:36:19 PMApr 23, 2024 TRACE 1 2 3 4 5 6 TYPE MUMUMU DET P NNNN
B/div Ref 20	et 2.88 dB .00 dBm				Mkr	1 2.436 49 GHz 7.105 dBm
j						
		how	warman man	munhang		
		mi	W	VA	6	
	when	V			N.	
	10				7	
)					hu	M
	- pure				· · · · · · · · · · · · · · · · · · ·	hord way
Mr why	A ROW					M. Awly
,						
nter 2.43700 G						Span 30.00 MHz
es BW 100 kHz						
		#VD	W 300 kHz	STATUS	Sweep 2	.933 ms (1001 pts)
				status 7MHz Emis		.933 ms (1001 pts)
	Tx. S			status 7MHz Emis		
RL RF	Tx. S	purious N	IVNT b 243	7MHz Emis Alignauto Avg Type: Lo	sion	05:36:49 PM Apr 23, 2024 TRACE 12 3 4 5 6
RF RF	Тх. S r - Swept SA 50 ж АС	purious N	IVNT b 243	7MHz Emis	sion g-Pwr	05:36:49 PMApr 23, 2024 TRACE 2 3 4 5 6 TYPE MUNICIPAL DET P NUMBER
nter Freq 13.2	Tx. S 50 x AC 265000000 GH set 2.88 dB	purious N	IVNT b 243	7MHz Emis Alignauto Avg Type: Lo	sion g-Pwr	05:36:49 PMApr 23, 2024 TRACE 23 + 5 6 TYPE MUMUNU DET P NUNNN r1 2.438 8 GHz
RL RF nter Freq 13.2 B/div Ref 20	Tx. S <u>r - Swept SA</u> <u>50 Q AC</u> 265000000 GH2	purious N	IVNT b 243	7MHz Emis Alignauto Avg Type: Lo	sion g-Pwr	05:36:49 PMApr 23, 2024 TRACE 2 3 4 5 6 TYPE MUNICIPAL DET P NUMBER
RL RF Ref Offs IB/div Ref 20	Tx. S 50 x AC 265000000 GH set 2.88 dB	purious N	IVNT b 243	7MHz Emis Alignauto Avg Type: Lo	sion g-Pwr	05:36:49 PMApr 23, 2024 TRACE 23 + 5 6 TYPE MUMUNU DET P NUNNN r1 2.438 8 GHz
Ref Office AB/div Ref Office AB/div Ref 20	Tx. S 50 x AC 265000000 GH set 2.88 dB	purious N	IVNT b 243	7MHz Emis Alignauto Avg Type: Lo	sion g-Pwr	05:36:49 PMApr 23, 2024 TRACE 23 + 5 6 TYPE MUMUNU DET P NUNNN r1 2.438 8 GHz
Ref Office Bib/div Ref 20	Tx. S 50 x AC 265000000 GH set 2.88 dB	purious N	IVNT b 243	7MHz Emis Alignauto Avg Type: Lo	sion g-Pwr	05:36:49 PMApr 23, 2024 TRACE 23 + 5 6 TYPE MUMUNU DET P NUNNN r1 2.438 8 GHz
Ref Officer Ref Officer Ref Officer Ref Officer Ref 20	Tx. S 50 x AC 265000000 GH set 2.88 dB	purious N	IVNT b 243	7MHz Emis Alignauto Avg Type: Lo	sion g-Pwr	05:36:49 PMApr 23, 2024 TRACE 23 + 5 6 TYPE MUMUNU DET P NUNNN r1 2.438 8 GHz
Ref Offs B/div Ref 20	Tx. S 50 x AC 265000000 GH set 2.88 dB	purious N	IVNT b 243	7MHz Emis Alignauto Avg Type: Lo	sion g-Pwr	05:36:49 PMApr 23, 2024 TRACE 23 + 5 6 TYPE MUMUNU DET P NUNNN r1 2.438 8 GHz
Ref Offs BJ/div Ref 20	Tx. S 50 x AC 265000000 GH set 2.88 dB	purious N	IVNT b 243	7MHz Emis Alignauto Avg Type: Lo	sion g-Pwr	05:36:49 PMApr 23, 2024 TRACE 23 + 5 6 TYPE MUMUNU DET P NUNNN r1 2.438 8 GHz
Ref Offs	Tx. S 50 x AC 265000000 GH set 2.88 dB	purious N	IVNT b 243	7MHz Emis Alignauto Avg Type: Lo	sion g-Pwr	05:36:49 PMApr 23, 2024 TRACE 23, 45 c TYPE MUMARY 171 2.438 8 GHz 6.657 dBm
Ref Offs B/div Ref 20	Tx. S)	PHO: Fast IFGain:Low	IVNT b 243	7MHz Emis Alignauto Avg Type: Lo	sion g-Pwr Mk	05:36:49 PMApr 23, 2024 TRACE 2 3 4 5 6 TYPE M WWWWW r1 2.438 8 GHz 6.657 dBm -1230 dbm
Ref Offs Ref 20 Ref 20 rt 30 MHz es BW 100 kHz	Tx. S)	PHO: Fast IFGain:Low ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	WNT b 243 NSE-PUSE Trig: Free Run #Atten: 30 dB	7MHz Emis Alignauto Avg Type: Lo	sion g-Pwr Mk	05:36:49 PMApr 23, 2024 TRACE 23 + 5 6 TYPE MUMUNU DET P NUNNN r1 2.438 8 GHz
Ref Offs B/div Ref 20	Tx. S)	PHO: Fast IFGain:Low ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	WNT b 243 NSE-PUSE Trig: Free Run #Atten: 30 dB	7MHz Emis	sion g-Pwr Mk	05:36:49 PMApr 23, 2024 TRACE 2 3 4 5 c TYPE MUNICIPAL TYPE MUNICIPAL 171 2.438 8 GHz 6.657 dBm 1230 dbm 1330
Ref Offs B/div Ref 20	Tx. S)	PN0: Fast PN0: Fast IFGain:Low #VB #VB #VB SHz 6.667 SHz -20.531 SHz -20.531 SHz -20.531 SHz -20.531	VNT b 243 NSE:PULSE Trig: Free Run #Atten: 30 dB W 300 kHz W 300 kHz CBm dBm dBm dBm dBm	7MHz Emis	sion g-Pwr Mk	05:36:49 PMApr 23, 2024 TRACE 2 3 4 5 c TYPE MUNICIPAL TYPE MUNICIPAL 171 2.438 8 GHz 6.657 dBm 1230 dbm 1330
Ref Office BI-Jdiv Ref 20 Ref	Tx. S 50 a AC 50 a AC 50 C	PN0: Fast PN0: Fast IFGain:Low #VB #VB #VB	VNT b 243 NSE:PULSE Trig: Free Run #Atten: 30 dB W 300 kHz W 300 kHz CBm dBm dBm dBm dBm	7MHz Emis	sion g-Pwr Mk	05:36:49 PMApr 23, 2024 TRACE 2 3 4 5 c TYPE MUNICIPAL TYPE MUNICIPAL 171 2.438 8 GHz 6.657 dBm 1230 dbm 1330
Ref Offs Ref Offs Ref Offs Ref 20 Ref 20	Tx. S 50 a AC 50 a AC 50 C	PN0: Fast PN0: Fast IFGain:Low #VB #VB #VB	VNT b 243 NSE:PULSE Trig: Free Run #Atten: 30 dB W 300 kHz CIBm dBm dBm dBm dBm	7MHz Emis	sion g-Pwr Mk	05:36:49 PMApr 23, 2024 TRACE 2 3 4 5 c TYPE MUNICIPAL TYPE MUNICIPAL 171 2.438 8 GHz 6.657 dBm 1230 dbm 1330



ent Spectrum Analyzer RL RF nter Freq 2.462	50 Q AC		Free Run n: 30 dB	LIGNAUTO Avg Type: Log-Pw Avg Hold: 100/100		5:37:57 PM Apr 23, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNN
Ref Offse					Mkr1 2	2.462 48 GHz 6.880 dBm
3						
0			A Made			
0		nomber	mon	Muly		
0	N	wV		M		
	J.	22 I		24) X	M	
D	1ª				N.	
0					hanny	
·	M					Mr. M.
Mm						" vym
N						
0						
	z	#VBW 300	kHz	ş		
	Z	#VBW 300	kHz	STATUS		
nter 2.46200 GH es BW 100 kHz		#vew 300		STATUS	Sweep 2.93	pan 30.00 MHz 3 ms (1001 pts)
es BW 100 kHz	Tx. Sp	urious NVNT	b 2462M	status Hz Emissic	Sweep 2.93	3 ms (1001 pts)
es BW 100 kHz ent Spectrum Analyzer RL RF	Tx. Sp		b 2462M	STATUS	sweep 2.93	3 ms (1001 pts)
es BW 100 kHz ent Spectrum Analyzer RL RF nter Freq 13.20	Tx. Sp Swept SA 55000000 GHz		b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts)
es BW 100 kHz	Tx. Sp - Swept SA 50 000000 GHz t2.85 dB		b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts) 5:39:27 PMApr 23, 2024 TRACE 1 3 3 4 5 6 TYPE MUMANN N DET P NNN N
es BW 100 kHz	Tx. Sp - Swept SA 50 000000 GHz t2.85 dB		b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts) 5:38:27 PMApr 23, 2024 TRACE 12 3 4 5 6 TYPE MINNIN DET PINNINN 2.462 6 GHz
es BW 100 kHz	Tx. Sp - Swept SA 50 000000 GHz t2.85 dB		b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts) 5:38:27 PMApr 23, 2024 TRACE 12 3 4 5 6 TYPE MINNIN DET PINNINN 2.462 6 GHz
es BW 100 kHz	Tx. Sp - Swept SA 50 000000 GHz t2.85 dB		b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts) 5:38:27 PMApr 23, 2024 TRACE 12 3 4 5 6 TYPE MINNIN DET PINNINN 2.462 6 GHz
es BW 100 kHz	Tx. Sp - Swept SA 50 000000 GHz t2.85 dB		b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts) 5:38:27 PMApr 23, 2024 TRACE 12 3 4 5 6 TYPE MINNIN DET PINNINN 2.462 6 GHz
es BW 100 kHz	Tx. Sp - Swept SA 50 000000 GHz t2.85 dB		b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts) 5:38:27 PMApr 23, 2024 TRACE 12 3 4 5 6 TYPE MINNIN DET PINNINN 2.462 6 GHz
es BW 100 kHz	Tx. Sp - Swept SA 50 000000 GHz t2.85 dB		b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts) 5:38:27 PMApr 23, 2024 TRACE 12 3 4 5 6 TYPE MINNIN DET PINNINN 2.462 6 GHz
es BW 100 kHz	Tx. Sp - Swept SA 50 000000 GHz t2.85 dB		b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts) 5:38:27 PMApr 23, 2024 TRACE 12 3 4 5 6 TYPE MINNIN DET PINNINN 2.462 6 GHz
es BW 100 kHz	Tx. Sp - Swept SA 50 000000 GHz t2.85 dB	Urious NVNT	b 2462M	STATUS	Sweep 2.93	3 ms (1001 pts)
es BW 100 kHz	Tx. Sp swept SA 35000000 GHz t 2.85 dB 00 dBm	Urious NVNT SENSE PUSE PRO: Fast IFGain:Low → Trig: #Atte	b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts)
Ref Offse Ref Offse BB/div Ref 20.0 Ref Offse BB/div Ref 20.0 Ref Offse Ref Offse BB/div Ref 20.0 Ref Offse Ref Offse Sector Ref 20.0 Ref Offse Sector Ref 20.0 Ref Offse Sector Ref Sector	Tx. Sp Swept SA S5000000 GHz t2.85 dB 00 dBm	Urious NVNT	b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts)
Ref Offse Ref Offse dB/div Ref 20.0 Ref 20.0 Ref Offse dB/div Ref 20.0 Ref Offse dB/div Ref 20.0 Ref Offse Ref Offse Ref Offse Ref Offse Ref Offse Ref Offse Ref Offse Ref Offse Ref 20.0 Ref	Tx. Sp Swept SA 55000000 GHz t 2.85 dB 00 dBm 2.462 6 GH 4.924 3 GH	URIOUS NVNT	b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts)
Ref Offse Ref Offse dB/div Ref 20.0 Ref 20.0 Ref Offse dB/div Ref 20.0 Ref Offse dB/div Ref 20.0 Ref Offse Ref Offse Ref Offse Ref Offse Ref Offse Ref Offse Ref Offse Ref Offse Ref 20.0 Ref	Tx. Sp Swept SA S5000000 GHz t2.85 dB 00 dBm	URIOUS NVNT	b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts)
es BW 100 kHz	Tx. Sp Swept SA 55000000 GHz t 2.85 dB 00 dBm 2.462 6 GH 4.924 3 GH	URIOUS NVNT	b 2462M	STATUS Hz Emissic	Sweep 2.93	3 ms (1001 pts)



nter Freq 2.412	P	SENSE:PULSE NO: Fast Trig: Free Run Gain:Low #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	05:42:39 PM Apr 23, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P NNNN
Ref Offse B/div Ref 20.0				4 Mkr1 2.413 26 GHz 5.463 dBm
			1	
	mitmint	malangaraparapara ha	and the second second	
	3			
	and and Mar			May
1 Marmalan	۰ ل <u>ر</u>			mynamana
APO WAAA II IA				
ter 2.41200 GH				Span 30.00 MHz
		#VBW 300 kHz	Swee	p 2.933 ms (1001 pts)
	Tx. Spu		status 112MHz Emission	p 2.933 ms (1001 pts)
nt Spectrum Analyzer - L RF !	Swept SA		status 112MHz Emission alignauto	05:43:10 PM Apr 23, 2024
nt Spectrum Analyzer - L RF !	Swept SA 50 g AC 55000000 GHz	rious NVNT g 24	STATUS 412MHz Emission AUGNAUTO Avg Type: Log-Pwr	05:43:10 PM Apr 23, 2024
nt Spectrum Analyzer	Swept SA 50 Q AC 55000000 GHz P IFI t 2.9 dB	rious NVNT g 24	STATUS 412MHz Emission ALIGNAUTO Avg Type: Log-Pwr	05:43:10 PMApr 23,2024 TRACE 23 4 5 6 TYPE [MUNUMUM DET P NNNNN Mkr1 2.407 0 GHz
Ref Offse IB/div Ref 20.0	Swept SA 50 Q AC 55000000 GHz P IFI t 2.9 dB	rious NVNT g 24	STATUS 412MHz Emission ALIGNAUTO Avg Type: Log-Pwr	05:43:10 PM.Apr 23, 2024 TRACE 12 3 4 5 6 TYPE MANNAN DET P NN NN N
nt Spectrum Analyzer L RF 15 Iter Freq 13.20 B/div Ref 20.0	Swept SA 50 Q AC 55000000 GHz P IFI t 2.9 dB	rious NVNT g 24	STATUS 412MHz Emission ALIGNAUTO Avg Type: Log-Pwr	05:43:10 PMApr 23,2024 TRACE 23 4 5 6 TYPE [MUNUMUM DET P NNNNN Mkr1 2.407 0 GHz
nt Spectrum Analyzer	Swept SA 50 Q AC 55000000 GHz P IFI t 2.9 dB	rious NVNT g 24	STATUS 412MHz Emission ALIGNAUTO Avg Type: Log-Pwr	05:43:10 PMApr 23,2024 TRACE 23 4 5 6 TYPE [MUNUMUM DET P NNNNN Mkr1 2.407 0 GHz
nt Spectrum Analyzer	Swept SA 50 Q AC 55000000 GHz P IFI t 2.9 dB	rious NVNT g 24	STATUS 412MHz Emission ALIGNAUTO Avg Type: Log-Pwr	05:43:10 PMApr 23, 2024 IRACE 12 3 4 5 c TYPE MANNING DET P NANNA Mkr1 2.407 0 GHz 4.205 dBm
nt Spectrum Analyzer L RF 1 hter Freq 13.20 Ref Offse IB/div Ref 20.0	Swept SA 50 Q AC 55000000 GHz P IFI t 2.9 dB	rious NVNT g 24	STATUS 412MHz Emission ALIGNAUTO Avg Type: Log-Pwr	05:43:10 PMApr 23, 2024 IRACE 12 3 4 5 c TYPE MANNING DET P NANNA Mkr1 2.407 0 GHz 4.205 dBm
nt Spectrum Analyzer	Swept SA 50 Q AC 55000000 GHz P IFI t 2.9 dB	rious NVNT g 24	STATUS 412MHz Emission ALIGNAUTO Avg Type: Log-Pwr	05:43:10 PMApr 23, 2024 IRACE 12 3 4 5 c TYPE MANNING DET P NANNA Mkr1 2.407 0 GHz 4.205 dBm
nt Spectrum Analyzer	Swept SA 50 Q AC 55000000 GHz P IFI t 2.9 dB	rious NVNT g 24	ALIGNAUTO AUGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:43:10 PMAgr 23, 2024 TRACE 12 3 4 5 d TYPE MANNUM Mkr1 2.407 0 GHz 4.205 dBm
nt Spectrum Analyzer ter Freq 13.26 B/div Ref 20.0 Trian and the second seco	Swept SA 50 Q AC 55000000 GHz P IFI t 2.9 dB	rious NVNT g 24	STATUS	05:43:10 PMApr 23, 2024 TRACE 12 3 4 5 G TYPE MANNUM Mkr1 2.407 0 GHz 4.205 dBm
nt Spectrum Analyzer	Swept SA 50 Q AC 55000000 GHz P IFI t 2.9 dB	rious NVNT g 24	STATUS	05:43:10 PMApr 23, 2024 IRACE 12 3 4 5 c TYPE MANNANA Mkr1 2.407 0 GHz 4.205 dBm



Spectrum Analyzer - Swe RF 50 Ω ter Freq 2.43700	AC 0000 GHz PNC	SENSE:PULSE D: Fast →→ Trig: Free Run in:Low #Atten: 30 dB		05:44:24 PM Apr 23, 2024 TRACE 12:34 5 TYPE MWWWW DET P NNNN
Ref Offset 2.8 Vdiv Ref 20.00 d			n	4.273 dBn 4.273 dBn
	A . J	A		
	Marthalimber	Aprophy and a log	where and my and property of the	
	Å			141
In North	galig			When M.
Why the way				Mangunghang
			STATUS	p 2.955 ms (1001 pts
Spectrum Analyzer - Swe 8F 50 ຊ ter Freq 13.2650	AC 00000 GHz	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr	05:44:54 PM Apr 23, 2024
RF 50 Q	AC A		ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:44:54 PMAor 23, 202 TRACE 1 3 4 5 TYPE MWWWW DEI P NNNN Mkr1 2.444 1 GH2
ter Freq 13.2650	Pt SA AC 000000 GHz PNC IFGa 18 dB	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:44:54 PM Apr 23, 202 TRACE 10:3 4 5 TYPE MWWWW DET P NNNN Mkr1 2.444 1 GH2
Ref Offset 2.8	Pt SA AC 000000 GHz PNC IFGa 18 dB	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:44:54 PM Apr 23, 202 TRACE 10:3 4 5 TYPE MWWWW DET P NNNN Mkr1 2.444 1 GH2
Ref Offset 2.8	Pt SA AC D00000 GHz IFGa IB dB IB m	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:44:54 PM Apr 23, 202 TRACE 10:3 4 5 TYPE MWWWW DET P NNNN Mkr1 2.444 1 GH2
Ref Offset 2.8	Pt SA AC 000000 GHz PNC IFGa 18 dB	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:44:54 PMApr 23, 202 TRACE 12 3 4 5 TYPE M MANNA OFT P N N N N Mkr1 2.444 1 GH2 4.554 dBm
Ref Offset 2.8	Pt SA AC D00000 GHz IFGa IB dB IB m	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:44:54 PMApr 23, 202 TRACE TYPE MMMMM DET P NNNN DET P NNNN Mkr1 2.444 1 GH: 4.554 dBn
Ref Offset 2.8	Pt SA AC D00000 GHz IFGa IB dB IB m	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	2.933 ms (1001 pts 05:44:54 PM Apr 23, 2024 TRACE [12:3:4:5 TYPE [M NNN DET P NNNN Mkr1 2.444 1 GH2 4.554 dBm
Ref Offset 2.8	Pt SA AC D00000 GHz IFGa IB dB IB m	SENSE:PULSE	ALIGNAUTO AUGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:44:54 PMApr 23, 202 TRACE 12 3 4 5 TYPE MMMMM Mkr1 2.444 1 GH: 4.554 dBn
Ref Offset 2.8 Mdiv Ref 20.00 d	Pt SA AC 000000 GHz PNC IFGa 88 dB IBm	SENSE PULSE : Fast → Trig: Free Run #Atten: 30 dB	ALIGNAUTO AVIG Type: Log-Pwr AvigHold: 10/10	06:44:54 PMApr 23, 202 TRACE 12 3 4 5 TYPE MMMMM Mkr1 2.444 1 GH: 4.554 dBn
Ref Offset 2.8 Mdiv Ref 20.00 d	pt SA AC DO0000 GHz PKG BB BB AC PRG BB AC PRG ACO PRG AC PRG AC PRG AC PRG AC PRG AC PRG AC PRG AC PRG AC PRG AC PRG AC PRO AC PRO AC PRO AC PRO AC PRO AC PRO AC PRO AC PRO AC PRO AC PRO AC PRO AC PRO AC PRO AC PRO AC PRO AC PC PRO AC PC AC PC AC PC AC PC AC PC AC PC AC PC AC PC AC AC PC AC AC PC AC AC AC AC AC AC AC AC AC AC AC AC AC	SENSE PUSE : Fast → Trig: Free Rur #Atten: 30 dB	ALIGNAUTO AVIG Type: Log-Pwr AvigHold: 10/10	05:44:54 PMAgr 23, 2024 TRACE 112:3 4 5 Type MMMMM Mkr1 2.444 1 GH2 4.554 dBm -4:573 db -4:573 d



		SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr n Avg Hold: 100/100	05:46:15 PM Apr 23, 2024 TRACE 1 2 3 4 5 6 TYPE M
		NO: Fast Trig: Free Ru Gain:Low #Atten: 30 dB		DET P NNNN
Ref Offset	2.85 dB			Mkr1 2.455 73 GHz 4.697 dBm
dB/div Ref 20.00	Jabm			4.007 0.011
0				
0		1.000		
0	mante	when have made a	man and an and and and and and and and an	
	1			
0	1			h
	they war			W Among
O ANNA MARAMAN				Mar Mun Mar
And the and the second				
0				
0				
nter 2.46200 GHz es BW 100 kHz		#VBW 300 kHz	Swo	Span 30.00 MHz ep 2.933 ms (1001 pts)
CO DVV TOO KITZ		#4 D44 300 KHZ	Ower	Cp 2.3333 m3 (1001 pts)
			STATUS	
ont Spectrum Analyzer - 0		rious NVNT g 2	status 462MHz Emission	
RL RF 50	Swept SA	rious NVNT g 2	462MHz Emission	05:46:45 PM Apr 23, 2024
RL RF 50	Swept SA	SENSE:PULSE	462MHz Emission	05:46:45 PM Apr 23, 2024 TRACE 12.3.4 5 6 TYPE MUSALAW
nter Freq 13.26	Swept SA D & AC 5000000 GHz IFC	SENSE:PULSE	462MHz Emission	05:46:45 PM Apr 23, 2024 TRACE 3 3 4 5 6 TYPE MINNINN DET P NINNIN
RL RF 50 nter Freq 13.26 Ref Offset dB/div Ref 20.00	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE:PULSE	462MHz Emission	05:46:45 PM Apr 23, 2024 TRACE 12.3.4 5 6 TYPE MUSALAW
RL RF SC nter Freq 13.26 Ref Offset dB/div Ref 20.00	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE:PULSE	462MHz Emission	05:46:45 PMApr 23, 2024 TRACE 3 4 5 6 TYPE DET P NNNN Mkr1 2.467 0 GHz
RL RF SC nter Freq 13.26 Ref Offset dB/div Ref 20.00	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE:PULSE	462MHz Emission	05:46:45 PMApr 23, 2024 TRACE 3 4 5 6 TYPE DET P NNNN Mkr1 2.467 0 GHz
RL RF SC nter Freq 13.26 Bl/div Ref Offset Ref 20.00	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE:PULSE	462MHz Emission	05:46:45 PMApr 23, 2024 TRACE 13 3 4 5 6 TYPE MWWWWW ct IP NNNNN Mkr1 2.467 0 GHz 1.009 dBm
RL RF SC nter Freq 13.26 Bl/div Ref Offset	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE:PULSE	462MHz Emission	05:46:45 PMApr 23, 2024 TRACE 3 4 5 6 TYPE DET P NNNN Mkr1 2.467 0 GHz
RL RF SC nter Freq 13.26 dB/div Ref Offset dB/div Ref 20.00	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE:PULSE	462MHz Emission	05:46:45 PMApr 23, 2024 TRACE 13 3 4 5 6 TYPE MWWWWW ct IP NNNNN Mkr1 2.467 0 GHz 1.009 dBm
Ref Offset dB/div Ref 20.00	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE:PULSE	462MHz Emission	05:46:45 PMApr 23, 2024 TRACE 13 3 4 5 6 TYPE MWWWWW ct IP NNNNN Mkr1 2.467 0 GHz 1.009 dBm
RE Ref Offset	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE:PULSE	462MHz Emission	05:46:45 PMApr 23, 2024 TRACE 13 3 4 5 6 TYPE MWWWWW ct IP NNNNN Mkr1 2.467 0 GHz 1.009 dBm
RL RF SC nter Freq 13.26: dB/div Ref Offset 0 0 0 0 0 0 0 0 0 0 0 0 0	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE:PULSE	462MHz Emission	05:46:45 PMApr 23, 2024 TRACE 13 3 4 5 6 TYPE MWWWWW ct IP NNNNN Mkr1 2.467 0 GHz 1.009 dBm
RL RF SC nter Freq 13.26: Ref Offset B/div Ref 20.00	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE:PULSE	462MHz Emission	05:46:45 PMApr 23, 2024 TRACE 12:3 4 5 6 TYPE MWWWWWW Det P NNNNN Mkr1 2.467 0 GHz 1.009 dBm
Ref Offset BB/div Ref 20.00	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE-PLLSE NO: Fast Trig: Free Ru #Atten: 30 dB	462MHz Emission	05:46:45 PMAor 23, 2024 TRACE 12:3 4 5 6 TYPE MANNIN Mkr1 2.467 0 GHz 1.009 dBm
Ref Offset B/div Ref 20.00	Swept SA 10 AC 50000000 GHz PI IFC 2.85 dB	SENSE-PULSE NO: Fast Trig: Free Ru #Atten: 30 dB	462MHz Emission	05:46:45 PMAor 23, 2024 TRACE 12:3 4 5 6 Type MAINING Mkr1 2.467 0 GHz 1.009 dBm
Ref Offset Ref Offset Ref 20.00	Swept SA 22 AC 5000000 GHz P P FC 2.85 dB 0 dBm	ISENSE-PULSE	462MHz Emission	05:46:45 PMApr 23, 2024 TRACE 12:3 4 5 6 TYPE MANNIN Mkr1 2.467 0 GHz 1.009 dBm
Ref Offset Ref Offset Ref 20.00	Swept SA 192 AC 5000000 GHz P IFC 2.85 dB 0 dBm 2.85 dB 0 dBm	SENSE-PULSE 10: Fast → Trig: Free Ru Jain:Low → #Atten: 30 dB #VBW 300 kHz ¥ EUNEI 1.009 dBm -33.918 dBm -33.918 dBm	462MHz Emission	05:46:45 PMAor 23, 2024 TRACE 12:3 4 5 6 TYPE MANNAN Mkr1 2.467 0 GHz 1.009 dBm -15:30 dBm -15:30 dBm Stop 26.50 GHz ep 2.530 s (30001 pts)
Ref Offset Ref Offset Ref 20.00	Swept SA 22 AC 5000000 GHz P P P P P P P P P P P P P	SENSE-PLLSE NO: Fast Trig: Free Ru #Atten: 30 dB #Atten: 30 dB #VBW 300 kHz * RUNEII 1.009 dBm 	462MHz Emission	05:46:45 PMAor 23, 2024 TRACE 12:3 4 5 6 TYPE MANNAN Mkr1 2.467 0 GHz 1.009 dBm -15:30 dBm -15:30 dBm Stop 26.50 GHz ep 2.530 s (30001 pts)
Ref Offset Ref Offset Ref 20.00	Swept SA 192 AC 5000000 GHz IFC 2.85 dB 0 dBm 2.467 0 GHz 4.931 4 GHz 4.931 4 GHz 7.535 1 GHz	SENSE-PULSE NO: Fast	462MHz Emission	05:46:45 PMAor 23, 2024 TRACE 12:3 4 5 6 TYPE MANNAN Mkr1 2.467 0 GHz 1.009 dBm -15:30 dBm -15:30 dBm Stop 26.50 GHz ep 2.530 s (30001 pts)
Ref Offset BJ/div Ref 20.00	Swept SA 192 AC 5000000 GHz IFC 2.85 dB 0 dBm 2.467 0 GHz 4.931 4 GHz 4.931 4 GHz 7.535 1 GHz	SENSE-PULSE NO: Fast	462MHz Emission	05:46:45 PMAor 23, 2024 TRACE 12:3 4 5 6 Type MAINING Mkr1 2.467 0 GHz 1.009 dBm



RL RF nter Freq 2.41	50 Q AC		FOLSE Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100		4 PM Apr 23, 2024 RACE 1 2 3 4 5 6 TYPE M
Ref Offse					Mkr1 2.41	16 98 GHz .974 dBm
0				1		
0		Mundunturn	metul and	whichours		-
	No. 11		at the		m m	
0	N				Ne.	
	N ^D				why we	1
MAMMAN					· · •	MANNA
nter 2.41200 GH es BW 100 kHz			300 кнz IT n20 24	status 12MHz Emissi	weep 2.933 m	
es BW 100 kHz ent Spectrum Analyzer RL RF	Tx. Spu		IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 m ON	s (1001 pts)
es BW 100 kHz	Tx. Spu - Swept SA 500 AC 55000000 GHz		IT n20 24	status 12MHz Emissi alignauto	weep 2.933 m ON 05:49:4 Mkr1 2.4	4 PMApr 23, 2024 IRACE 2 3 4 5 6 TYPE MANNE DET P NNNH 06 1 GHz
es BW 100 kHz ent Spectrum Analyzer Rt RF nter Freq 13.2 Ref Offse dB/div Ref 20.	Tx. Spu - Swept SA 500 AC 65000000 GHz et 2.9 dB		IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 m ON 05:49:4 Mkr1 2.4	4 PMApr 23, 2024 IRACE 2 3 4 5 6 TYPE MANNE DET P NNNH 06 1 GHz
es BW 100 kHz	Tx. Spu - Swept SA 500 AC 65000000 GHz et 2.9 dB		IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 m ON 05:49:4 Mkr1 2.4	4 PMApr 23, 2024 IRACE 2 3 4 5 6 TYPE MANNE DET P NNNH 06 1 GHz
es BW 100 kHz	Tx. Spu - Swept SA 500 AC 65000000 GHz et 2.9 dB		IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 m ON 05:49:4 Mkr1 2.4	s (1001 pts)
es BW 100 kHz	Tx. Spu - Swept SA 500 AC 65000000 GHz et 2.9 dB		IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 m ON 05:49:4 Mkr1 2.4	s (1001 pts)
es BW 100 kHz	Tx. Spu - Swept SA 500 AC 65000000 GHz et 2.9 dB		IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 m ON 05:49:4 Mkr1 2.4	s (1001 pts)
Ref Offse	Tx. Spu - Swept SA 500 AC 65000000 GHz et 2.9 dB		IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 m ON 05:49:4 Mkr1 2.4	s (1001 pts)
es BW 100 kHz	Tx. Spu - Swept SA 500 AC 65000000 GHz et 2.9 dB		IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 m ON 05:49:4 Mkr1 2.4	s (1001 pts)
es BW 100 kHz	Tx. Spu - Swept SA 500 AC 65000000 GHz et 2.9 dB		IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 m ON 05:49:4 Mkr1 2.4 4	s (1001 pts)
es BW 100 kHz	Tx. Spu - Swept SA 500 AC 65000000 GHz et 2.9 dB	PNO: Fast	IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	weep 2.933 m ON 05:49:4 Mkr1 2.4 4	s (1001 pts)
Ref Offse Ref Offse Bldlv Ref 20. Ref Offse Ref 20.	Tx. Spu	PNO: Fast ++ IFGain:Low #VBW	IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	weep 2.933 m ON 05:49:4 Mkr1 2.4 4	s (1001 pts)
es BW 100 kHz	Tx. Spu - Swept SA 500 AC 65000000 GHz at 2.9 dB 00 dBm 3 2.406 1 Gi 4.822 8 Gi 4.822 8 Gi 4.822 8 Gi	PNO: Fast ++ IFGain:Low #VBW	IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	weep 2.933 m ON 05:49- Mkr1 2.4 4	14 PMAge 23, 2024 IRACE 12 3 4 5 c TYPE MANNANA 006 1 GHz 762 dBm -15 03 dbm
es BW 100 kHz	Tx. Spu - Swept SA 65000000 GHz et 2.9 dB 00 dBm 00 dBm	Irious NVN	IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	weep 2.933 m ON 05:49- Mkr1 2.4 4	s (1001 pts)
Ref Offse BW 100 kHz Ref Offse B/div Ref 20.	Tx. Spu - Swept SA 65000000 GHz 65000000 GHz et 2.9 dB 00 dBm 00 dBm 2.406 1 Gi 4.822 8 Gi 4.822 8 Gi 4.822 8 Gi 4.822 8 Gi 7.225 4 Gi	Irious NVN Isense PNO: Fast IFGain:Low # 4 5 #VBW Hz 4762 df Hz -32.785 df Hz -32.785 df Hz -32.785 df	IT n20 24	STATUS 12MHz Emissi ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	weep 2.933 m ON 05:49- Mkr1 2.4 4	s (1001 pts)



ent Spectrum Analyzer - RL RF 5 nter Freq 2.437	0 9 AC 0000000 GHz	PNO: Fast Tri IFGain:Low #At	g: Free Run ten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	TYPE N	r 23, 2024 2 3 4 5 6 NNNN
Ref Offset	2.88 dB				Mkr1 2.440 7	
	U UDIII					
0				1		
0		1	A. A.	A A . R. a . A		
	mannen	MMMM MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	what have at	and held of advant without have a	m	
0	1				1	
0	www				With Marian	_
M MM	<u> </u>				Mayner	WWW
alls a no had .						1.11
0						
0						
		#vew 30		status 37MHz Emissio	Span 30.0 weep 2.933 ms (10 ON	
es BW 100 kHz ent Spectrum Analyzer - RL RF 5	Tx. Spui Swept SA ସନ୍ନ ନଣ	rious NVNT	n20 243	STATUS 37MHz Emissio ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 ms (10 DN 05:51:35 PMAC TRACE TYPE	01 pts
es BW 100 kHz ent Spectrum Analyzer - RL RF S nter Freq 13.26	Tx. Spui swept SA 0 Q AC 50000000 GHz		n20 243	status 37MHz Emissio alignauto	weep 2.933 ms (10 ON 05:51:35 PMag 05:51:35 PMag 05:51:35 PMag Treet Treet Nkr1 2.442 3	01 pts)
es BW 100 kHz ent Spectrum Analyzer - RL RF S nter Freq 13.26 Ref Offset dB/div Ref 20.0	Tx. Spui		n20 243	STATUS 37MHz Emissio ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 ms (10 DN 05:51:35 PM Ap TRACE VPE 05:71:35 PM TRACE VPE 05:71:35 PM TRACE	01 pts)
es BW 100 kHz ent Spectrum Analyzer - RL RF S nter Freq 13.26 Ref Offset aB/div Ref 20.0	Tx. Spui		n20 243	STATUS 37MHz Emissio ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 ms (10 ON 05:51:35 PMag 05:51:35 PMag 05:51:35 PMag Treet Treet Nkr1 2.442 3	01 pts)
es BW 100 kHz ent Spectrum Analyzer - RL 8F 5 nter Freq 13.26 Ref Offset dB/div Ref 20.0	Tx. Spui		n20 243	STATUS 37MHz Emissio ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 ms (10 ON 05:51:35 PMag 05:51:35 PMag 05:51:35 PMag Treet Treet Nkr1 2.442 3	23,2024 2 3 4 5 6 NNNN 3 GHz dBm
es BW 100 kHz est Spectrum Analyzer - Rt 8F 5 nter Freq 13.26 Ref Offset dB/div Ref 20.0	Tx. Spui		n20 243	STATUS 37MHz Emissio ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 ms (10 ON 05:51:35 PMag 05:51:35 PMag 05:51:35 PMag Treet Treet Nkr1 2.442 3	01 pts)
es BW 100 kHz ent Spectrum Analyzer - Rt 8F 5 nter Freq 13.26 Ref Offset aB/div Ref 20.0	Tx. Spui		n20 243	STATUS 37MHz Emissio ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 ms (10 ON 05:51:35 PMag 05:51:35 PMag 05:51:35 PMag Treet Treet Nkr1 2.442 3	23,2024 2 3 4 5 6 NNNN 3 GHz dBm
Ref Offset	Tx. Spui		n20 243	STATUS 37MHz Emissio ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 ms (10 ON 05:51:35 PMag 05:51:35 PMag 05:51:35 PMag Treet Treet Nkr1 2.442 3	23,2024 2 3 4 5 6 NNNN 3 GHz dBm
es BW 100 kHz ent Spectrum Analyzer - Rt 8F 5 nter Freq 13.26 Ref Offset aB/div Ref 20.0	Tx. Spui		n20 243	STATUS 37MHz Emissio ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 ms (10 ON 05:51:35 PMag 05:51:35 PMag 05:51:35 PMag Treet Treet Nkr1 2.442 3	23,2024 2 3 4 5 6 NNNN 3 GHz dBm
es BW 100 kHz ent Spectrum Analyzer - Rt 8F 5 nter Freq 13.26 Ref Offset aB/div Ref 20.0	Tx. Spui		n20 243	STATUS 37MHz Emissio ALIGNAUTO Avg Type: Log-Pwr	weep 2.933 ms (10 ON 05:51:35 PMag 05:51:35 PMag 05:51:35 PMag Treet Treet Nkr1 2.442 3	23,2024 2 3 4 5 6 NNNN 3 GHz dBm
Ref Offset	Tx. Spui		T n20 243	STATUS	weep 2.933 ms (10 ON 05:51:35 PMag 05:51:35 PMag 05:51:35 PMag Treet Treet Nkr1 2.442 3	15 72 dec
Ref Offset ab/div Ref 20.0 Ref 20.0 ab/div Ref 20.0 ab/di Ref 20.0 ab/di Ref 20.0 ab/	Tx. Spui	rious NVNT	© n20 243	STATUS	weep 2.933 ms (10	15 72 dec
es BW 100 kHz	Tx. Spui Swept SA 0 0 A AC 22.88 dB 0 dBm 22.88 dB 0 dBm 48749 GH	rious NVNT	© n20 243	STMHZ Emission	weep 2.933 ms (10 ON 05:51:35 PMAD TRACE TYPE 0ET Mkr1 2.442 3 2.649 Mkr1 2.442 3 2.649 Stop 26.5 weep 2.530 s (300	15 72 dec
es BW 100 kHz	Tx. Spui	rious NVNT	© n20 243	STMHZ Emission	weep 2.933 ms (10 ON 05:51:35 PMAD TRACE TYPE 0ET Mkr1 2.442 3 2.649 Mkr1 2.442 3 2.649 Stop 26.5 weep 2.530 s (300	15 72 dec
Ref Offset dB/div Ref 20.0 Ref	Tx. Spui	rious NVNT	© n20 243	STMHZ Emission	weep 2.933 ms (10 ON 05:51:35 PMAD TRACE TYPE 0ET Mkr1 2.442 3 2.649 Mkr1 2.442 3 2.649 Stop 26.5 weep 2.530 s (300	15 72 dec



ent Spectrum Analyzer - RL RF 5 Inter Freq 2.462	0 9 AC 0000000 GHz	SENSE:P PNO: Fast T FGain:Low #	ulse rig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log Avg Hold: 100/	g-Pwr 100	05:55:29 PM Apr 23, 2024 TRACE 1 2 3 4 5 6 TYPE MUMMUM DET P N N N N
Ref Offset dB/div Ref 20.0					Mkr1	2.455 76 GHz 4.368 dBm
0						
			1 1			
0	manne	montum	and my month	ntontant	runner	
0	. AN		1		ter	
o Mr	AM				M	monaline
MANA						' MARANY (MARAN
0						
D						
0						
0						
nter 2.46200 GHz	Z					0
es BW 100 kHz		#vew 3		status 62MHz Emis		
ent Spectrum Analyzer - R L RF 5	Swept SA 0 © AC 5000000 GHz		T n20 24		ssion	33 ms (1001 pts) 05:55:59 PMApr 23, 2024 TRACE 12:34 5 6 TYPE MARK 23, 2024
ent Spectrum Analyzer - RL RF 5 nter Freq 13.26 Ref Offset	Swept SA 0 & AC 5000000 GHz 1 2.85 dB		T n20 24	62MHz Emis	SSION 3-Pwr 0	33 ms (1001 pts) 05:55:59 PMApr 23, 2024 TRACE 12:34 5 6 TRACE 12:34 5 6
ent Spectrum Analyzer RL RF 5 nter Freq 13.26	Swept SA 0 & AC 5000000 GHz 1 2.85 dB		T n20 24	62MHz Emis	SSION 3-Pwr 0	33 ms (1001 pts) 05:55:59 PM Apr 23, 2024 TRACE 12:3 4 5 6 TYPE MUMUMU DET P NNNN N
RL Spectrum Analyzer - RL RF 5 nter Freq 13.26 B/div Ref 0ffset	Swept SA 0 & AC 5000000 GHz 1 2.85 dB		T n20 24	62MHz Emis	SSION 3-Pwr 0	33 ms (1001 pts) 05:55:59 PMApr 23, 2024 TRACE 12:34 5 6 TRACE 12:34 5 6
RL RF 5 RL RF 5 nter Freq 13.26 Ref Offset dB/div Ref 20.0 0 0	Swept SA 0 & AC 5000000 GHz 1 2.85 dB		T n20 24	62MHz Emis	SSION 3-Pwr 0	33 ms (1001 pts) 05:55:59 PMApr 23, 2024 TRACE 123 4 5 6 TVRCE 123 4 5 6
RL Spectrum Analyzer - RL RF 5 nter Freq 13.26 Ref Offset dB/div Ref 20.0	Swept SA 0 & AC 5000000 GHz 1 2.85 dB		T n20 24	62MHz Emis	SSION 3-Pwr 0	33 ms (1001 pts) 05:55:59 PMApr 23, 2024 TRACE 123 4 5 6 TVPC 123
RL Spectrum Analyzer S RL RF 5 nter Freq 13.26 Ref Offset dB/div Ref 20.0	Swept SA 0 & AC 5000000 GHz 1 2.85 dB		T n20 24	62MHz Emis	SSION 3-Pwr 0	33 ms (1001 pts) 05:55:59 PMApr 23, 2024 TRACE 123 4 5 6 TVPC 123
RL RF 5 RL RF 5 nter Freq 13.26 Ref Offset dB/div Ref 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0	Swept SA 0 & AC 5000000 GHz 1 2.85 dB		T n20 24	62MHz Emis	SSION 3-Pwr 0	33 ms (1001 pts) 05:55:59 PMApr 23, 2024 TRACE 123 4 5 6 TVPC 123
RL RF 5 RL RF 5 nter Freq 13.26 Ref Offset dB/div Ref 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0	Swept SA 0 & AC 5000000 GHz 1 2.85 dB		T n20 24	62MHz Emis	3-Pwr 0 Mkr	33 ms (1001 pts)
Ref Offset RE Ref Offset BJdiv Ref 20.0	Swept SA 0.8 AC 5000000 GHz 1 1 1 2.85 dB 0 dBm 4 4 2.455 5 GHz	IOUS NVN SENSEP PNO: Fast → T FGain:Low → T #VBW 3 #VBW 3	T n20 24	62MHz Emis	3-Pwr 0 Mkr	12.455 5 GHz 4.313 dBm
Ref Offset RE Ref Offset BJdiv Ref 20.0	Swept SA 0 R AC 5000000 GHz 12.85 dB 0 dBm 0 dBm 0 dBm	ious NVN SENSE → T Foain:Low → T	T n20 24	32MHz Emis	SSION -Pwr Mkr Sweep 2.4	33 ms (1001 pts) 05:55:59 PMApr 23, 2024 TRACE 1234 5 6 TVPE 1234 5 6 TV
Ref Offset RE Ref Offset BJdiv Ref 20.0	Swept SA 0.8 AC 5000000 GHz 1 1 1 2.85 dB 0 dBm 4 2.455 5 GHz 4.925 2 GHz 4.925 2 GHz 4.925 2 GHz	ious NVN	T n20 24	32MHz Emis	SSION -Pwr Mkr Sweep 2.4	33 ms (1001 pts) 05:55:59 PMApr 23, 2024 TRACE 1234 5 6 TVPE 1234 5 6 TV
Ref Offset B/div Ref Offset B/div Ref 20.0 B/div Ref 20.0 Comparison Comp	Swept SA 0 8 AC 5000000 GHz 1 1 1 2.85 dB 0 dBm 4 2.455 5 GHz 4.925 2 GHz 4.925 2 GHz 4.925 2 GHz 7.298 8 GHz	ious NVN	T n20 24	32MHz Emis	SSION -Pwr Mkr Sweep 2.4	33 ms (1001 pts) 05:55:59 PMApr 23, 2024 TRACE 1234 5 6 TVPE 1234 5 6 TV



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 * * * *









