

Report No.: TW2410053-01E

Applicant: YAU WAI TRADING

Product: EVPAD Player

Model No.: EVPAD-11P, EVPAD-10P, EVPAD-10S, EVPAD-11S, EVPAD-11MAX

Trademark: EVPAD

Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

ierry lone

Terry Tang

Manager

Dated:

N

November 07, 2024

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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1.0 **General Details**

Test Lab Details 1.1

Name:	SHENZHEN TIMEWAY TESTING LABORATORIES.		
Address:	Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le		
	Village, Nanshan District, Shenzhen, China		
Telephone:	(755) 83448688		
Fax:	(755) 83442996		

1.2 Applicant Details

Applicant:	YAU WAI TRADING
Address:	WORKSHOP NO.14,4TH FLOOR LAURELS INDUSTRIAL CENTRE NO.32 TAI YAU
	STREET KOWLOON, HONG KONG, China

1.3 Description of EUT

1	
Product:	EVPAD Player
Manufacturer:	YAU WAI TRADING
Address:	WORKSHOP NO.14,4TH FLOOR LAURELS INDUSTRIAL CENTRE NO.32 TAI
	YAU STREET KOWLOON, HONG KONG, China
Trademark:	EVPAD
Model Number:	EVPAD-11P
Additional Model N	Number: EVPAD-10P, EVPAD-10S, EVPAD-11S, EVPAD-11MAX
Hardware Version:	V.11
Software Version: V	/10
Serial No.: 00226E	39F185
Type of Modulation	GFSK, $\Pi/4DQPSK$, 8DPSK for Bluetooth
Frequency range	2402-2480MHz for Bluetooth
Channel Spacing	1MHz for Bluetooth
Frequency Selection	n By software
Channel Number	79 channels for Bluetooth
Antenna:	FPC Antenna. The gain of the antennas is 2.45dBi (Get from the antenna
	specification provided the manufacturer)
Rating:	Input: DC5.0V, 2A
Power Supply:	Model: MDL010-05020002U
	Input: 100-240V~, 50/60Hz, 0.45A; Output: DC5V, 2A,10W

Submitted Sample: 2 Samples 1.4

1.5 Test Duration

2024-10-15 to 2024-11-07

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer



The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 **Technical Details**

3.1 Summary of test results

ording to the following specif	ications:	
CFR 47 Section	Result	Notes
15.203, 15.247(b)(4)	Pass	Complies
15.247 (b)(1), (4)	Pass	Complies
15.247(a)(1)	Pass	Complies
15.247 (a)(1)	Pass	Complies
15.247(a)(iii), 15.247(b)(1)	Pass	Complies
15.247(a)(iii)	Pass	Complies
15.247(d),15.205(a), 15.209 (a),15.109	Pass	Complies
15.207(a), 15.107	Pass	Complies
15.247(i), 1.1307(b)(1)	Pass	Complies
	CFR 47 Section 15.203, 15.247(b)(4) 15.247 (b)(1), (4) 15.247 (a)(1) 15.247 (a)(1) 15.247 (a)(1) 15.247 (a)(iii), 15.247(b)(1) 15.247(a)(iii) 15.247(a)(5.205(a), 15.209 (a), 15.107	15.203, 15.247(b)(4) Pass 15.203, 15.247(b)(1), (4) Pass 15.247 (b)(1), (4) Pass 15.247 (a)(1) Pass 15.247 (a),15.205 (a), Pass 15.209 (a),15.109 Pass 15.207 (a), 15.107 Pass

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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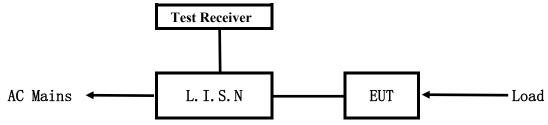
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adopt any other remedies which may be appropriate.



5. **Power Line Conducted Emission Test**

5.1 Schematics of the test

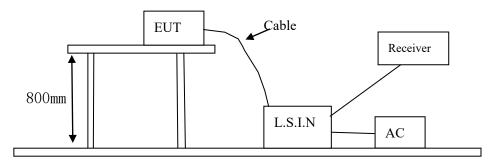


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013. Test Voltage: 120V~ 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

Device	Manufacturer	Model	FCC ID
		EVPAD-11P, EVPAD-10P,	
EVPAD Player	YAU WAI TRADING	EVPAD-10S, EVPAD-11S,	2A4G810P10P
		EVPAD-11MAX	

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B. Internal Device

Device Manufacturer		Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 **EUT Operating Condition**

Operating condition is according to ANSI C63.10-2013.

- А Setup the EUT and simulators as shown on follow
- В Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (d	lBμV)
(MHz)	Quasi-peak Level	Average Level
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*
$0.50~\sim~5.00$	56.0	46.0
$5.00~\sim~30.00$	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

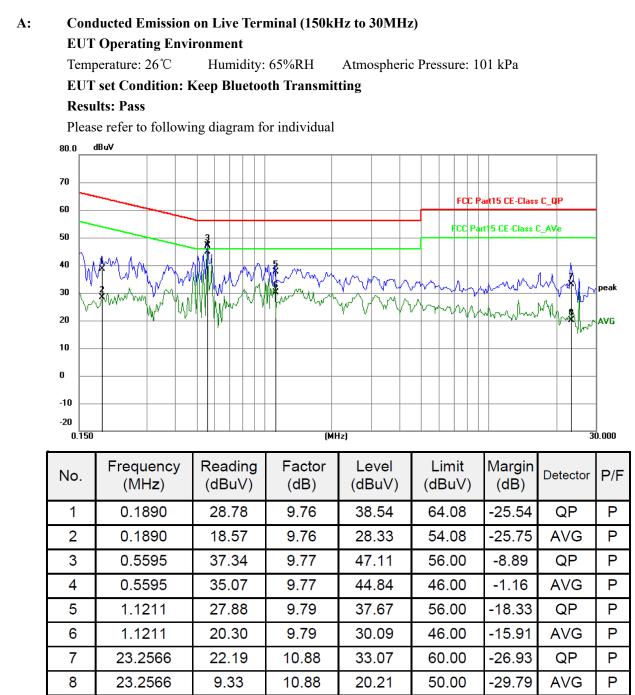
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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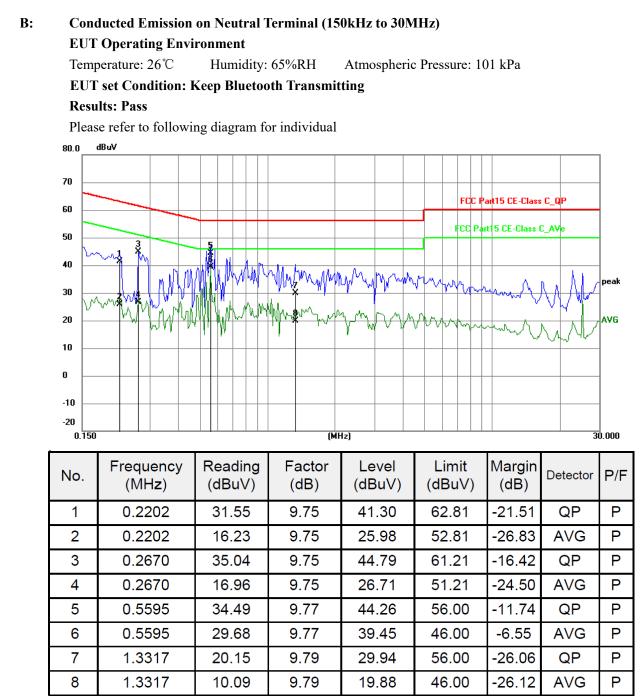




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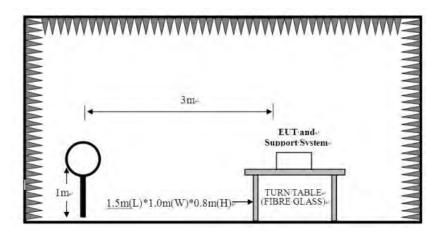


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

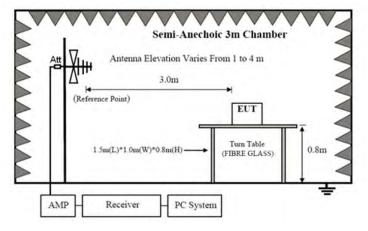


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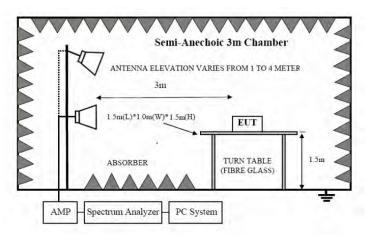
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of the EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

1. RF Voltage (dBuV) = $20 \log RF$ Voltage (uV) Note:

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. 8DPSK was the worst case because it has highest output power

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Test result General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/Vertical (30MHz----1000MHz)

Keep Bluetooth Transmitting EUT set Condition:

Pass

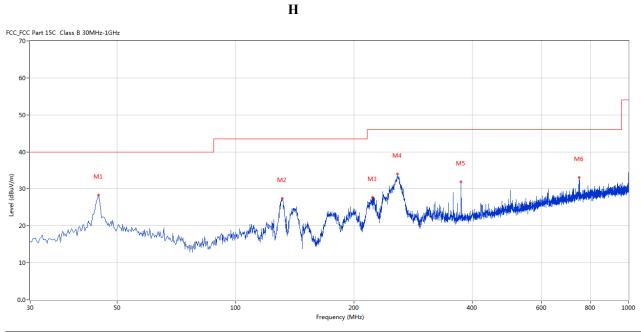
Results:

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Test Figure:

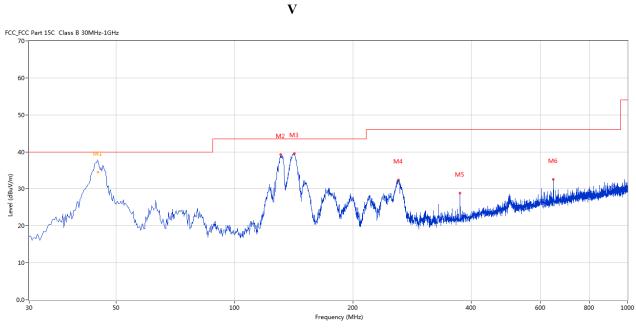


No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	44.789	28.37	-11.42	40.0	11.63	Peak	151.00	100	Horizontal	Pass
2	131.582	27.37	-16.93	43.5	16.13	Peak	159.00	100	Horizontal	Pass
3	222.982	27.74	-13.18	46.0	18.26	Peak	31.00	100	Horizontal	Pass
4	258.135	34.00	-11.85	46.0	12.00	Peak	360.00	100	Horizontal	Pass
5	374.991	31.95	-9.44	46.0	14.05	Peak	311.00	100	Horizontal	Pass
6	749.803	33.07	-3.41	46.0	12.93	Peak	358.00	100	Horizontal	Pass

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Test Figure:



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	44.925	39.83	-11.42	40.0	0.17	Peak	312.00	163	Vertical	Pass
1*	44.925	34.55	-11.42	40.0	5.45	QP	312.00	163	Vertical	Pass
2	131.097	39.30	-16.83	43.5	4.20	Peak	66.00	100	Vertical	Pass
3	141.765	39.61	-17.29	43.5	3.89	Peak	108.00	100	Vertical	Pass
4	261.287	32.40	-11.86	46.0	13.60	Peak	108.00	100	Vertical	Pass
5	374.991	28.92	-9.44	46.0	17.08	Peak	71.00	100	Vertical	Pass
6	647.978	32.57	-4.59	46.0	13.43	Peak	199.00	100	Vertical	Pass

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operation mode.	Transmitting under Low Cl		
Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4804		Н	74(Peak)/ 54(AV)
4804		V	74(Peak)/ 54(AV)
7206		H/V	74(Peak)/ 54(AV)
9608		H/V	74(Peak)/ 54(AV)
12010		H/V	74(Pe k)/ 54(AV)
14412		H/V	74(Peak)/ 54(AV)
16814		H/V	74(Peak)/ 54(AV)
19216		H/V	74(Peak)/ 54(AV)
21618		H/V	74(Peak)/ 54(AV)
24020		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting under Low Channel (2402MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

Frequency (MHz)	Level@3m (dB µ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4882		Н	74(Peak)/ 54(AV)
4882		V	74(Peak)/ 54(AV)
7323		H/V	74(Peak)/ 54(AV)
9764		H/V	74(Peak)/ 54(AV)
12205		H/V	74(Peak)/ 54(AV)
14646		H/V	74(Peak)/ 54(AV)
17087		H/V	74(Peak)/ 54(AV)
19528		H/V	74(Peak)/ 54(AV)
21969		H/V	74(Peak)/ 54(AV)
24410		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting g under Middle Channel (2441MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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Operation wrote.	Transmitting under High C.	nannei (24001/112)	
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4960		Н	74(Peak)/ 54(AV)
4960		V	74(Peak)/ 54(AV)
7440		H/V	74(Peak)/ 54(AV)
9920		H/V	74(Peak)/ 54(AV)
12400		H/V	74(Peak)/ 54(AV)
14880		H/V	74(Peak)/ 54(AV)
17360		H/V	74(Peak)/ 54(AV)
19840		H/V	74(Peak)/ 54(AV)
22320		H/V	74(Peak)/ 54(AV)
24800		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting under High Channel (2480MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit 2. Remark "---" means that the emissions level is too low to be measured

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adopt any other remedies which may be appropriate.



7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span =2MHz, RBW =30 kHz, VBW=100 kHz, Sweep = auto Detector function = peak, Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

Tw		f N/	Indi	ulati	ion:
- y	JU U	1 17.	IUU	ulau	UII.

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
		2402		0.926	0	Pass
	1-DH5	2441		0.975	0	Pass
		2480		0.974	0	Pass
		2402		1.288	0	Pass
NVNT	2-DH5	2441	Ant1	1.263	0	Pass
		2480		1.282	0	Pass
		2402		1.228	0	Pass
	3-DH5	2441		1.259	0	Pass
		2480		1.281	0	Pass

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gilent Spectrum Analyzer - Occupie		dwidth NVNT 1-DH5 2	2402MHz Ant1	
RL RF 50 Ω A Center Freq 2.4020000 Center Freq CenteFreq Center Freq	.⊂ 100 GHz (↔⊷ 1	SENSE:INT Center Freq: 2.402000000 GHz Trig: Free Run Avg Hol #Atten: 30 dB	ALIGN AUTO 02:54:51 PM Radio Std: d: 100/100 Radio Dev	
Ref Offset 2.9			Mkr3 2.4024	63 GHz 01 dBm
0 dB/div Ref 22.92 d .0g		1		
2.92		many	• 3	2.402000000 GHz
7.08	m Promotion		m	
27.1			www.	-
37.1				
57.1				
57.1				
enter 2.402 GHz Res BW 30 kHz		#VBW 100 kHz		an 2 MHz CF Step 2.667 ms 200.000 kHz
Occupied Bandwi	idth	Total Power	15.7 dBm	200.000 kH: <u>Auto</u> Mar
- seepien muldin	864.00 kHz	2		FreqOffse
Transmit Freq Error	-23 H	z OBW Power	99.00 %	0 H:
x dB Bandwidth	925.7 kH	z xdB	-20.00 dB	
		dwidth NVNT 1-DH5 2	status 2441MHz Ant l	
gilent Spectrum Analyzer - Occupi RL RF 50 Ω A	ed BW C DOD GHz (SENSE:INT	2441MHz Ant1 ALIGNAUTO 02:56:32 PM Radio Stei:	
gilent Spectrum Analyzer - Occupi RL RF 50 Ω A	ed BW .c	SENSE:INT	2441MHz Ant1 ALIGNAUTO [02:56:32PP Radio Std; d: 100/100 Radio Dev	None Frequency
glient Spectrum Analyzer - Occupi RL RF 50 Q A Center Freq 2.4410000 Ref Offset 2.9 10 dB/div Ref 22.96 d	ed BW C DOO GHz #IFGain:Low	SENSE:INT Center Freq: 2.441000000 GHz Trig: Free Run Avg Hol	2441MHz Ant1 ALIGNAUTO 102:56:32PF Radio Std: d: 100/100 Radio Dev Mkr3 2.4414	None Frequency
glient Spectrum Analyzer – Occupi	ed BW C DOO GHz #IFGain:Low	SENSE:INT Center Freq: 2.441000000 GHz Trig: Free Run Avg Hol	2441MHz Ant1 ALIGNAUTO 102:56:32PF Radio Std: d: 100/100 Radio Dev Mkr3 2.4414	None Frequency ice: BTS 77 GHz 35 dBm Center Freq
RE RE 2.96 d	ed BW C DOO GHz #IFGain:Low	SENSE:INT Center Freq: 2.441000000 GHz Trig: Free Run Avg Hol	2441MHz Ant1 ALIGNAUTO 102:56:32PF Radio Std: d: 100/100 Radio Dev Mkr3 2.4414	None Frequency ice: BTS 77 GHz 35 dBm Center Freq
gilent Spectrum Analyzer – Occupi RL RF 50 & A center Freq 2.4410000 Ref Offset 2.9 Ref Offset 2.9 Ref 22.96 d 0 dB/div Ref 22.96 d 2.96 7.04 100	ed BW C DOO GHz #IFGain:Low	SENSE:INT Center Freq: 2.441000000 GHz Trig: Free Run Avg Hol	2441MHz Ant1 ALIGNAUTO 102:56:32PF Radio Std: d: 100/100 Radio Dev Mkr3 2.4414	None Frequency ice: BTS 77 GHz 35 dBm Center Freq
gilent Spectrum Analyzer – Occupi RL RF 50 Q A center Freq 2.4410000 Ref Offset 2.9 Q </td <td>ed BW C DOO GHz #IFGain:Low</td> <td>SENSE:INT Center Freq: 2.441000000 GHz Trig: Free Run Avg Hol</td> <td>2441MHz Ant1 ALIGNAUTO 102:56:32PF Radio Std: d: 100/100 Radio Dev Mkr3 2.4414</td> <td>None Frequency ice: BTS 77 GHz 35 dBm Center Freq</td>	ed BW C DOO GHz #IFGain:Low	SENSE:INT Center Freq: 2.441000000 GHz Trig: Free Run Avg Hol	2441MHz Ant1 ALIGNAUTO 102:56:32PF Radio Std: d: 100/100 Radio Dev Mkr3 2.4414	None Frequency ice: BTS 77 GHz 35 dBm Center Freq
gilent Spectrum Analyzer – Occupit RL RF 50 & A center Freq 2.4410000 Ref Offset 2.9 0 dB/div Ref 22.96 d 0 296	ed BW C DOO GHz #IFGain:Low	SENSE:INT Center Freq: 2.441000000 GHz Trig: Free Run Avg Hol	2441MHz Ant1 ALIGNAUTO 102:56:32PF Radio Std: d: 100/100 Radio Dev Mkr3 2.4414	None Frequency ice: BTS 77 GHz 35 dBm Center Freq
gilent Spectrum Analyzer – Occupit RL RF 50 & A center Freq 2.4410000 Ref Offset 2.9 0 dB/div Ref 22.96 d 0 2.96	ed BW C DOO GHz #IFGain:Low	SENSE:INT Center Freq: 2.441000000 GHz Trig: Free Run Avg Hol	2441MHz Ant1 ALIGNAUTO 102:56:32PF Radio Std: d: 100/100 Radio Dev Mkr3 2.4414	None Frequency ice: BTS 77 GHz 35 dBm Center Freq
gilent Spectrum Analyzer - Occupie RL RF 50 & A center Freq 2.4410000 Ref Offset 2.9 O dB/div Ref Offset 2.9 0 dB/div Ref 22.96 d 0 g	ed BW C DOO GHz #IFGain:Low	SENSE:INT Center Freq: 2.441000000 GHz Trig: Free Run Avg Hol	2441MHz Ant1 ALIGNAUTO CO2:56:32PR Radio Std: Radio Dev Mkr3 2.4414 -13.73	None Frequency ice: BTS 77 GHz 35 dBm Center Freq 2.441000000 GH:
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glient Spectrum Analyzer - Occupit RL RF 50 & A center Freq 2.44100000 Ref Offset 2.9 A 0 dB/div Ref 22.96 d A 0 g	ed BW C DOO GHZ #IFGain:Low 6 dB IBM 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT Center Freq: 2.441000000 GHz Trig: Free Run Avg Hol. Avg Hol.	2441MHz Ant1 ALIGNAUTO 2256:32PF Radio Std: a: 100/100 Radio Dev Mkr3 2.4414 -13.7:	None Frequency ice: BTS 77 GHz 35 dBm Center Frec 2.441000000 GHz an 2 MHz 2.667 ms CF Step 200.000 kHz
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glient Spectrum Analyzer - Occupie RL RF 50.2 A Ref Offset 2.9 0 dB/div Ref 22.96 d 0 db/div Ref 20.96 d 0 db/div Ref 20.96 d 0 db/div Ref 20.96 d 0	ed BW C DOO GHz #IFGain:Low 6 dB Bm 2 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT Center Freq: 2.44100000 GHz Irig: Free Run Avg Hol Avg Hol 4tten: 30 dB #VBW 100 kHz Total Power Z Z OBW Power	2441MHz Ant1 ALIGNAUTO ALIGNAUTO Calignation Addio Dev Radio Dev Mkr3 2.4414 -13.73 	None Frequency Frequency Frequency Center Frec 2.441000000 GH; an 2 MHz 2.667 ms CF Step 200.000 kH; Auto Mar
glient Spectrum Analyzer - Occupie RL RF 50.0 A Center Freq 2.4410000 Ref Offset 2.9 A 10 dB/div Ref 22.96 d 130	ed BW C DOO GHz #IFGain:Low 6 dB Bm 2 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT Center Freq: 2.44100000 GHz Irig: Free Run Avg Hol Avg Hol 4tten: 30 dB #VBW 100 kHz Total Power Z Z OBW Power	2441MHz Ant1 ALIGNAUTO 102:56:32FR Radio Std: Radio Dev Mkr3 2.4414 -13.7: -13.7:	None Frequency ice: BTS 77 GHz 35 dBm Center Freq 2.441000000 GHz an 2 MHz 2.667 ms CF Step 200.000 kHz
O dB/div Ref 22.96 d	ed BW C DOO GHz #IFGain:Low 6 dB Bm 2 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT Center Freq: 2.44100000 GHz Irig: Free Run Avg Hol Avg Hol 4tten: 30 dB #VBW 100 kHz Total Power Z Z OBW Power	2441MHz Ant1 ALIGNAUTO ALIGNAUTO Calignation Addio Dev Radio Dev Mkr3 2.4414 -13.73 	None Frequency Frequency Frequency Center Frec 2.441000000 GH; an 2 MHz 2.667 ms CF Step 200.000 kH; Auto Mar

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0 dB/div .0g 2.92 2.92 2.92 2.7.08 2.92 2.7.1 2.7.	Ref Offset 2.92 Ref 22.92 dE	#IFGain:Low dB m	#Atten:		Mkr3	-14.8	vice: BTS 335 GHz 30 dBm an 2 MHz 2.667 ms	Center Fred 2.402000000 GH: 200.000 KH: <u>Auto</u> Mar Freq Offse 0 H:
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0 dB/div .og 2.92 2.92 2.7.08 17.1 27.1 47.1 57.1 57.1 Center 2.4	Ref Offset 2.92 dE	#IFGain:Low	#Atten:			2.4026 -14.8	35 GHz 30 dBm	Center Fred 2.40200000 GH 2.40200000 GH 2.4020000 GH
0 dB/div • og 2.92 2.71 4.	Ref Offset 2.92 Ref 22.92 dE	#IFGain:Low				2.4026 -14.8	35 GHz 30 dBm	Center Free
0 dB/div • g 12.9 2.92 7.08 7.14 7.14 7.14 7.14 7.14 7.14 7.14	Ref Offset 2.92	#IFGain:Low				2.4026	35 GHz	Center Free
0 dB/div og 12.9 2.92 2.92 17.1 17.1 17.1 37.1	Ref Offset 2.92	#IFGain:Low				2.4026	35 GHz	Center Free
0 dB/div .og 12.9 2.92 7.08	Ref Offset 2.92	#IFGain:Low				2.4026	35 GHz	Center Free
0 dB/div -og 12.9 2.92 7.08	Ref Offset 2.92	#IFGain:Low				2.4026	35 GHz	Center Free
0 dB/div .og 12.9	Ref Offset 2.92	#IFGain:Low				2.4026	35 GHz	Center Free
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	-	#IFGain:Low				2.4026	35 GHz	rioquoney
enter Fre						Radio Dev	vice: BTS	requerey
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		-20dB	Bandwidt	th NVNT 2-DH	15 2402MHz	Ant1		
6G					STATU	s		
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T		885.98 k		0014/0		0.00 %		Freq Offse
Occup	ied Bandwid			Total Power	15.	6 dBm		<u>Auto</u> Mar
enter 2.4 Res BW			#V	'BW 100 kHz			an 2 MHz 2.667 ms	CF Step 200.000 kH
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2.98		O2	- America	- month man	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			2.480000000 GH
13.0								Center Free
0 dB/div .og	Ref Offset 2.98 Ref 22.98 dE						97 dBm	
		#IFGain:Low	#Atten:			Radio Dev	vice: BTS	
				Freq:2.48000000000 ee Run Avg	ALIGNAUTO Hz Hold: 100/100	02:58:02P Radio Std		Frequency
	eq 2.4800000	JU GHZ	uenter	Eug				Frequency

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enter Freq		AC	Center	SENSE:INT r Freq: 2.441000 ree Run	ALIGNA 1000 GHz Avg Hold: 100/10	Radio St	PM Oct 16, 2024 d: None	Frequency
		#IFGain:Low		:30 dB	Avginoid: 100/10		evice: BTS	
0 dB/div	Ref Offset 2.9 Ref 22.96 (ſ	/kr3 2.44 -13.8	162 GHz 320 dBm	
-og 13.0	Rei 22.90 (<u>_1</u>				0
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enter 2.44						S	pan 2 MHz	CE Stor
Res BW 30	kHz		#	VBW 100 ki	Ηz	Sweep	2.667 ms	CF Step 200.000 kH
Occupie	d Bandw			Total Po	wer	14.6 dBm		<u>Auto</u> Mar
		1.1639 N	νHz					Freq Offse
Transmit	Freq Error	-11.81	7 kHz	OBW Po	ower	99.00 %		0 H:
x dB Ban	dwidth	1.263	3 MHz	x dB		-20.00 dB		
SG		-20dE	Bandwid	lth NVNT 2	-DH5 2480M	ITATUS Hz Ant 1		
gilent Spectrum A	RF 50Ω	ied BW	Center	SENSE:INT	-DH5 2480M	Hz Ant1 JTO 03:02:58 Radio St	PM Oct 16, 2024 d: None	Frequency
gilent Spectrum A	RF 50Ω	ied BW	Center	SENSE:INT r Freq: 2.480000 ree Run	-DH5 2480M ALIGNA 1000 GHz Avg Hold: 100/10	Hz Ant1 JTO 03:02:58 Radio St Radio De	d: None evice: BTS	Frequency
gilent Spectrum / RL Center Freq	RF 50Ω	ied BW AC 000 GHz #IFGain:Low 98 dB	Center	SENSE:INT r Freq: 2.480000 ree Run	-DH5 2480M ALIGNA 1000 GHz Avg Hold: 100/10	Hz Ant1 JTO 03:02:58 Radio St Radio De kr3 2.480	d: None evice: BTS	Frequency
g <mark>ilent Spectrum /</mark> RL Center Freq 0 dB/div .ºg	Ref Offset 2.5	ied BW AC 000 GHz #IFGain:Low 98 dB	Center	SENSE:INT r Freq: 2.480000 ree Run	-DH5 2480M ALIGNA 1000 GHz Avg Hold: 100/10	Hz Ant1 JTO 03:02:58 Radio St Radio De kr3 2.480	d: None evice: BTS 629 GHZ	
cilent Spectrum / RL Canter Freq O dB/div O dB/div	Ref Offset 2.5	ied BW AC 000 GHz #IFGain:Low 98 dB	Center	SENSE:INT r Freq: 2.480000 ree Run	-DH5 2480M ALIGNA 1000 GHz Avg Hold: 100/10	Hz Ant1 100 03:02:58 Radio 5t Radio De kr3 2.480 -14.5	d: None evice: BTS 629 GHZ	Center Free
odB/div 0 dB/div 0 2.98	Ref Offset 2.5	ied BW AC 000 GHz #IFGain:Low 98 dB	Center	SENSE:INT r Freq: 2.480000 ree Run	-DH5 2480M ALIGNA 1000 GHz Avg Hold: 100/10	Hz Ant1 JTO 03:02:58 Radio St Radio De kr3 2.480	d: None evice: BTS 629 GHZ	Center Free
o dB/div 0 dB/d	Ref Offset 2.5	ied BW AC 000 GHz #IFGain:Low 98 dB	Center	SENSE:INT r Freq: 2.480000 ree Run	-DH5 2480M ALIGNA 1000 GHz Avg Hold: 100/10	Hz Ant1 100 03:02:58 Radio 5t Radio De kr3 2.480 -14.5	d: None evice: BTS 629 GHZ	Center Free
gilent Spectrum / RL enter Freq 0 dB/div og 13.0 2.98 7.0 7.0 7.0 7.0 7.0	Ref Offset 2.5	ied BW AC 000 GHz #IFGain:Low 98 dB	Center	SENSE:INT r Freq: 2.480000 ree Run	-DH5 2480M ALIGNA 1000 GHz Avg Hold: 100/10	Hz Ant1 100 03:02:58 Radio 5t Radio De kr3 2.480 -14.5	d: None evice: BTS 629 GHZ	Center Free
glient Spectrum / RL enter Freq 0 dB/div 0 g 13.0 2.98 7.02 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	Ref Offset 2.5	ied BW AC 000 GHz #IFGain:Low 98 dB	Center	SENSE:INT r Freq: 2.480000 ree Run	-DH5 2480M ALIGNA 1000 GHz Avg Hold: 100/10	Hz Ant1 100 03:02:58 Radio 5t Radio De kr3 2.480 -14.5	d: None evice: BTS 629 GHZ	Center Free
glient Spectrum / RL enter Freq 0 dB/div og 13.0 2.98 7.02 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	Ref Offset 2.5	ied BW AC 000 GHz #IFGain:Low 98 dB	Center	SENSE:INT r Freq: 2.480000 ree Run	-DH5 2480M ALIGNA 1000 GHz Avg Hold: 100/10	Hz Ant1 100 03:02:58 Radio 5t Radio De kr3 2.480 -14.5	d: None evice: BTS 629 GHZ	Center Free
gilent Spectrum / RL enter Freq 0 dB/div 0 g 13.0 2.98 7.02 7.02 7.02 7.02 7.02 7.02 7.02 7.02 7.02 7.02 7.02 7.02 7.02 7.02 7.02 7.03 7.04 7.05 7.0 7.0 7.02 7.03 7.04 7.05 7.05 7.05	Ref Offset 2. 2.4800000	ied BW AC 000 GHz #IFGain:Low 98 dB	Center Trig: F #Atten	SENSE:INT r Freq: 2.480000 ree Run	-DH5 2480M	Hz Ant1	d: None evice: BTS 629 GHZ	Center Fred 2.48000000 GH2 CF Step 200.000 kH2
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gilent Spectrum Analyzer - Occupied B ^V RL RF 50 Ω AC		SENSE:INT	ALIGN AUTO	03:04:57 PM Oct 16, 2024	-	
enter Freq 2.40200000	GHz Cente Trig:F	er Freq: 2.402000000 GHz Free Run Avg Hold:	F : 100/100	adio Std: None	Frequency	
	#IFGain:Low #Atter	n: 30 dB		adio Device: BTS 2.402602 GHz		
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og 12.9		1			Center Fred	
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7.08	ma particular has	- www.	March 3			
27.1				\		
37.1 What was				mm		
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enter 2.402 GHz				Span 2 MHz		
Res BW 30 kHz	#	VBW 100 kHz	S	weep 2.667 ms	200.000 kH	
Occupied Bandwidt		Total Power	13.7 c	IBm	<u>Auto</u> Mar	
1.	1546 MHz				Freq Offse	
Transmit Freq Error	-11.611 kHz	OBW Power	99.0	0 %	он:	
x dB Bandwidth	1.228 MHz	x dB	-20.00	dB		
SG		dth NVNT 3-DH5 24	status 141MHz Ar	ıt1		
gilent Spectrum Analyzer - Occupied B RL RF 50 Q AC	W GHz Cente	SENSE:INT	441MHz Ar Alignauto	t 1 03:06:40 PM Oct 16, 2024 tadio Std: None	Frequency	
g <mark>ilent Spectrum Analyzer - Occupied B</mark> RL RF 50 Ω AC	GHz Cente	SENSE:INT	141 MHz Ar Align Auto 5 : 100/100 F	03:06:40 PM Oct 16, 2024 tadio Std: None tadio Device: BTS	Frequency	
gilent Spectrum Analyzer - Occupied B RL RF 50 Ω AC enter Freq 2.441000000 Ref Offset 2.96 df	W GHz #IFGain:Low 3	SENSE:INT Freq: 2.441000000 GHz Free Run Avg Hold:	141 MHz Ar Align Auto 5 : 100/100 F	03:06:40 PM Oct 16, 2024 adio Std: None	Frequency	
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glient Spectrum Analyzer - Occupied B' RL RF 50 Q AC enter Freq 2.4410000000 Ref Offset 2.96 dB Ref 22.96 dB 0 dB/dlv Ref 22.96 dB Ref 22.96 dB 0 g	W GHz Cente #IFGain:Low #Atter 3	SENSE:INT	ALIGN AUTO F 100/100 F Mkr3 ALIGN AUTO F Mkr3 ALIGN AUTO F ALIGN AUTO ALIGN AUTO F ALIGN AUTO ALI	03:06:40 PM Oct 16, 2024 adio Std: None iadio Device: BTS 2.441622 GHz -13.286 dBm 3 3 Span 2 MHz weep 2.667 ms	Center Freq 2.441000000 GH; 2.00.000 kH; <u>Auto</u> Mar	
glient Spectrum Analyzer - Occupied B' RL RF 50.2 AC center Freq 2.4410000000 Ref Offset 2.96 dB O dB/div Ref 22.96 dB Colspan="2">Ref Offset 2.96 dB O dB/div Ref 22.96 dB Colspan="2">Ref 0ffset 2.96 dB O dB/div Ref 22.96 dB Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2" Colspan="2" <th co<="" td=""><td>W GHz #IFGain:Low #Atter 3 1 M A A A A A A A A A A A A A</td><td>SENSE:INT r Freq: 2.441000000 GHz Free Run Avg Hold: 1 0 dB 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>ALIGNAUTO ALIGNAUTO F 100/100 F Mkr3 2 Mkr3 2 S 13.9 c</td><td>Bin Contraction Co</td><td>Center Freq 2.441000000 GH: 200.000 kH: Auto Mar</td></th>	<td>W GHz #IFGain:Low #Atter 3 1 M A A A A A A A A A A A A A</td> <td>SENSE:INT r Freq: 2.441000000 GHz Free Run Avg Hold: 1 0 dB 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>ALIGNAUTO ALIGNAUTO F 100/100 F Mkr3 2 Mkr3 2 S 13.9 c</td> <td>Bin Contraction Co</td> <td>Center Freq 2.441000000 GH: 200.000 kH: Auto Mar</td>	W GHz #IFGain:Low #Atter 3 1 M A A A A A A A A A A A A A	SENSE:INT r Freq: 2.441000000 GHz Free Run Avg Hold: 1 0 dB 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ALIGNAUTO ALIGNAUTO F 100/100 F Mkr3 2 Mkr3 2 S 13.9 c	Bin Contraction Co	Center Freq 2.441000000 GH: 200.000 kH: Auto Mar
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Frequency	03:08:13PM Oct 16, 2024 Radio Std: None Radio Device: BTS	ALIGN AUTO 2 51d: 100/100	SENSE:INT er Freq: 2.480000000 Free Run Av n: 30 dB		RF 50 Ω AC eq 2.48000000	enter F
	2.480634 GHz -14.246 dBm	Mkr3		dB m	Ref Offset 2.98 Ref 22.98 dB	0 d <u>B/div</u>
Center Fred 2.480000000 GH:	A3	Mmmmm -	Amon m	<u>a</u> mmm		. og 13.0 2.98
	ч <mark>у</mark>					7.0
	- march				MAR N	87.0 ~~~~ 17.0 ——
						57.0 57.0
CF Step 200.000 kH	Span 2 MHz Sweep 2.667 ms		¢VBW 100 kHz			enter 2 Res BW
<u>Auto</u> Mar	dBm	14.0	Total Powe		ied Bandwid	Occu
Freq Offse 0 Hi	.00 %	99	OBW Powe	-6,165 kHz	ך hit Freq Error	Trans
	00 dB		x dB	1.281 MHz	andwidth	

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8. Maximum Output Power

8.1 Regulation

According to \$15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to \$15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm or 21dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW =6MHz, RBW=2MHz; Sweep = 1.333ms; Detector function = PK; Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.

4. Repeat above procedures until all frequencies measured were complete.

Note: The Peak power were measured

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8.4Test Results

Type of Modulation:

Condition	Mode	Frequency	Antenna	Conducted Power	Duty Factor	Total Power	Limit	Verdict
		(MHz)		(dBm)	(dB)	(dBm)	(dBm)	
		2402		8.51	0	8.51	30	Pass
	1-DH5	2441	-	9.24	0	9.24	30	Pass
		2480	-	9.16	0	9.16	30	Pass
		2402	-	8.49	0	8.49	21	Pass
NVNT	2-DH5	2441	Ant1	9.28	0	9.28	21	Pass
		2480	-	9.1	0	9.1	21	Pass
		2402	-	8.66	0	8.66	21	Pass
	3-DH5	2441		9.31	0	9.31	21	Pass
		2480		9.28	0	9.28	21	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

2. The worse case was recorded

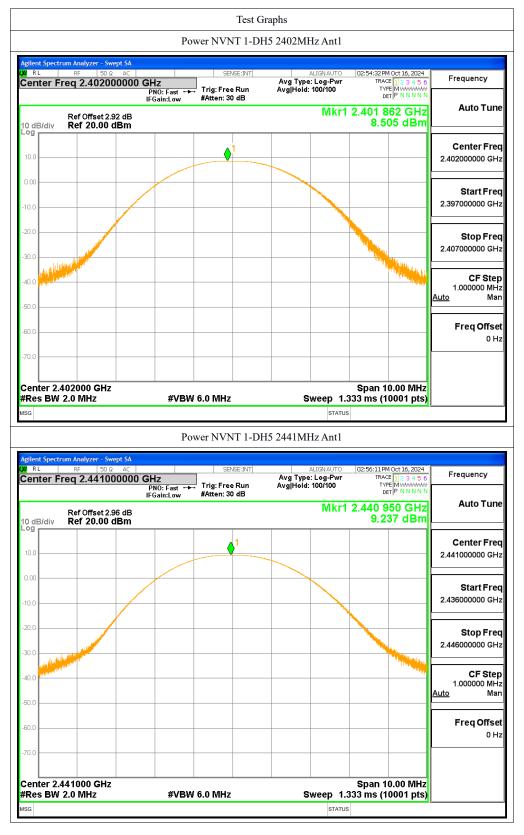
3. The Peak power was measured

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adopt any other remedies which may be appropriate.

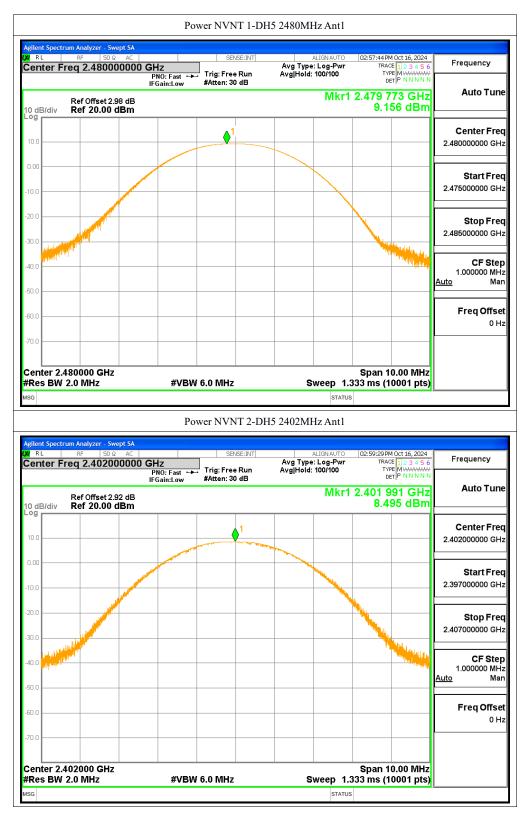




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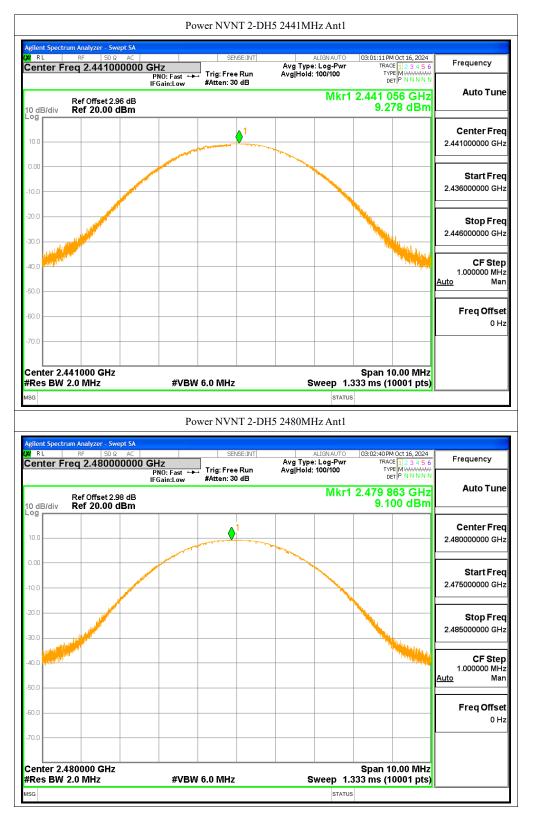




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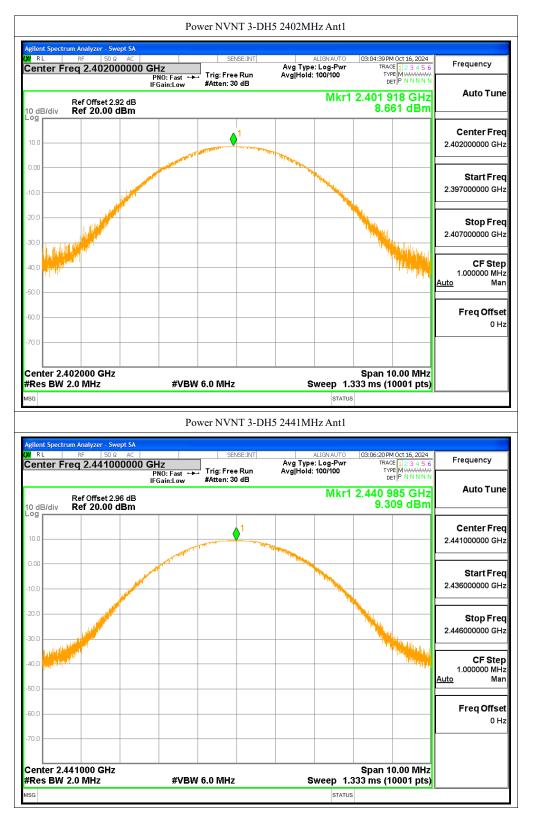




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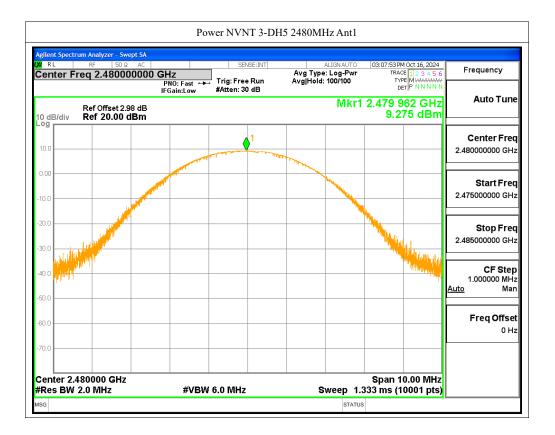




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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span; Video (or Average) Bandwidth (VBW) $\geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold

3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

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9.4Test Result

Type of Modulation:

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
			2401.992	2402.972	0.98	0.025	Pass
	1-DH5		2441.052	2441.99	0.938	0.025	Pass
			2479.032	2479.954	0.922	0.025	Pass
			2401.998	2403.156	1.158	0.025	Pass
NVNT	2-DH5	Ant1	2440.994	2442.014	1.02	0.025	Pass
			2478.988	2479.988	1	0.025	Pass
			2401.98	2403.156	1.176	0.025	Pass
	3-DH5		2441.002	2441.988	0.986	0.025	Pass
			2479.148	2480.154	1.006	0.025	Pass

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		Test G	iraphs		
	(CFS NVNT 1-DH	5 2402MHz Ant1		
Agilent Spectrum Analyze	r - Swept SA				
RL RF Center Freq 2.40		SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	02:12:28 PM Oct 16, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
	PNO: Wide ⊂ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>100/100	DET P N N N N N	Auto Tuno
	et 2.92 dB		Mkr1 2	2.401 992 GHz 6.566 dBm	Auto Tune
Log	.00 dBm		^2		
0.00	m		mont	m	Center Fred 2.402500000 GHz
-10.0	· · · · · · · · · · · · · · · · · · ·	man	- mark	- month	
-20.0					Start Fred
-40.0					2.401500000 GHz
-50.0					Stop Freq
-60.0					2.403500000 GHz
Center 2.402500 (<u> </u>			Span 2.000 MHz	
#Res BW 30 kHz		N 100 kHz	Sweep 2.1	33 ms (1001 pts)	CF Step 200.000 kHz
MKR MODE TRC SCL	× 2.401 992 GHz	Y FU 6.566 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
2 N 1 f 3	2.402 972 GHz	6.388 dBm			Freq Offset
4 5 6 7 8 9					0 Hz
6					
9 10					
10					
11					
			STATUS	×	
11		CES NVNIT 1 DH			
11 «		CFS NVNT 1-DH			
11 KING Agilent Spectrum Analyzer		CFS NVNT 1-DH	5 2441MHz Ant1	02:16:44PM Oct 16, 2024	Frequency
Agilent Spectrum Analyzer	r - Swept SA 50 Ω AC 1500000 GHz PNO: Wide C	SENSE:INT	5 2441MHz Ant1	02:16:44PM Oct 16, 2024 TRACE 12 3 4 5 6	Frequency
Agilent Spectrum Analyze	r - Swept SA 50 Ω AC I1500000 GHz PNO: Wide C IFGain:Low	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:15:44 PM Oct 16, 2024 IRACE 12 2 3 5 6 TYPE MWWWWW DET P N N N N	Frequency Auto Tune
Agilent Spectrum Analyze X RL RF Center Freq 2.44 Ref Offs 10 dB/div Ref 20	r - Swept SA 50 Ω AC 1500000 GHz PNO: Wide C	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:16:44PM Oct 16, 2024 TRACE 12 3 4 5 6	
Agilent Spectrum Analyzer	r - Swept SA 50 Ω AC 11500000 GHz PN0: Wide C IFGain:Low et 2.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:16:44PM Oct 16, 2024 TRACE 12 23 45 6 TYPE MWWWWW DET P N N N N 2.441 052 GHz	
Applent Spectrum Analyzee RL RF Center Freq 2.44 10 dB/div Ref Offs 10 dB/div Ref 20 0.00	r - Swept SA 50 Ω AC 11500000 GHz PN0: Wide C IFGain:Low et 2.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:16:44PM Oct 16, 2024 TRACE 12 23 45 6 TYPE MWWWWW DET P N N N N 2.441 052 GHz	Auto Tune
Agilent Spectrum Analyze X RL RF Center Freq 2.44 Ref Offs 10 dB/div Ref 20 10.0	r - Swept SA 50 Ω AC 11500000 GHz PN0: Wide C IFGain:Low et 2.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:16:44PM Oct 16, 2024 TRACE 12 23 45 6 TYPE MWWWWW DET P N N N N 2.441 052 GHz	Auto Tune Center Freq 2.44150000 GHz
Aglent Spectrum Analyze Aglent Spectrum Analyze RL RF Center Freq 2.44 10 dB/div Ref Offs 10 dB/div Ref 20 10 0 10 0 10 0 10 0	r - Swept SA 50 Ω AC 11500000 GHz PN0: Wide C IFGain:Low et 2.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:16:44PM Oct 16, 2024 TRACE 12 23 45 6 TYPE MWWWWW DET P N N N N 2.441 052 GHz	Auto Tune Center Freq 2.44150000 GHz Start Freq
11 Agilent Spectrum Analyzer 21 RL RF Center Freq 2.44 10 dB/div Ref Offs 10 dB/div Ref 20 0.00 -0.0	r - Swept SA 50 Ω AC 11500000 GHz PN0: Wide C IFGain:Low et 2.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:16:44PM Oct 16, 2024 TRACE 12 23 45 6 TYPE MWWWWW DET P N N N N 2.441 052 GHz	Auto Tune Center Freq 2.44150000 GHz
11 Agilent Spectrum Analyzer 21 RL RF Center Freq 2.44 10 dB/div Ref Offs 10 0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0	r - Swept SA 50 Ω AC 11500000 GHz PN0: Wide C IFGain:Low et 2.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:16:44PM Oct 16, 2024 TRACE 12 23 45 6 TYPE MWWWWW DET P N N N N 2.441 052 GHz	Auto Tune Center Freq 2.44150000 GHz Start Freq
11 Agilent Spectrum Analyzer 21 RL RF Center Freq 2.44 10 dB/div Ref Offs 10 dB/div Ref 20 0.00 -0.0	r - Swept SA 50 Ω AC 11500000 GHz PN0: Wide C IFGain:Low et 2.96 dB	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:16:44PM Oct 16, 2024 TRACE 12 23 45 6 TYPE MWWWWW DET P N N N N 2.441 052 GHz	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz
11 Agilent Spectrum Analyzee X RL RF Center Freq 2.44 Center Freq 2.44 Conter Freq 2.44 Con	r - Swept SA 50 Ω AC PNO: Wide C IFGain:Low iet 2.96 dB .00 dBm	SENSE:INT	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:15:44PM Oct 16, 2024 TRACE 12:3:45 6 TYPE MWWWWW DET P NNNN 2.441 052 GHz 6.840 dBm	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz Stop Freq 2.442500000 GHz
I1 Ref Applent Spectrum Analyzee Ref Offs X RL Center Freq 2.44 I0 Ref Offs 10.0 Ref Offs -20.0	r - Swept SA I150000 GHz PN0: Wide C IFGain:Low iet 2.96 dB .00 dBm .00 dBm .00 dBm	SENSE:INT	5 2441MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2 Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2	D2:16:44PMOct 16, 2024 TRACE 12 2 3 4 5 6 TYPE MWWWW 2.441 052 GHz 6.840 dBm 000000000000000000000000000000000000	Auto Tune Center Freq 2.441500000 GHz 2.440500000 GHz 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz 2.65 Step 200.000 kHz
11 Agilent Spectrum Analyzer 20 RE 21 RE Center Freq 2.44 10 dB/div 10 dB/div 10 dB/div 10 dB/div 10 dB/div 10.0 Agilent Spectrum Analyzer 10.0 Ref Offs 10.0 Agilent Spectrum Analyzer 10.0 Ref Offs 10.0 Agilent Spectrum Analyzer 10.0 Agilent Spectrum Analyzer 10.0 Agilent Spectrum Analyzer 10.0 Agilent Spectrum Analyzer 1 Agilent Spectrum Analyzer 1 Agilent Spectrum Analyzer	r - Swept SA 50 Ω AC PNO: Wide C IFGain:Low set 2.96 dB .00 dBm .00 d	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2 Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2	02:16:44PM Oct 16, 2024 TRACE 12 2 3 4 5 6 TYPE MWWWWW DET P NNNN 2.441 052 GHz 6.840 dBm 000000000000000000000000000000000000	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz
11 Aglient Spectrum Analyze 21 RL RF Center Freq 2.44 Ref Offs 10 dB/div Ref 20 10.0 .000	r - Swept SA I150000 GHz PN0: Wide C IFGain:Low iet 2.96 dB .00 dBm .00 dBm .00 dBm	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2 Mkr1 2 Mkr1 2 Mkr2 2	D2:16:44PMOct 16, 2024 TRACE 12 2 3 4 5 6 TYPE MWWWW 2.441 052 GHz 6.840 dBm 000000000000000000000000000000000000	Auto Tune Center Freq 2.441500000 GHz 2.440500000 GHz 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz 2.65 Step 200.000 kHz
11 Aglient Spectrum Analyze 21 RL RF Center Freq 2.44 Ref Offs 10 dB/div Ref 20 10.0 .000	r - Swept SA 50 Q AC 1/1500000 GHz PN0: Wide C IFGain:Low et 2.96 dB .00 dBm 1 .00 dBm 1 .00 dBm 1 .00 dBm 4 .00 dBm 1 .00 dBm 1 .00 dBm 4 .00 dBm 4 .00 dBm 1 .00 dBm 4 .00 dBm .00	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2 Mkr1 2 Mkr1 2 Mkr2 2	D2:16:44PMOct 16, 2024 TRACE 12 2 3 4 5 6 TYPE MWWWW 2.441 052 GHz 6.840 dBm 000000000000000000000000000000000000	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz 2.442500000 GHz 2.00.000 kHz 200.000 kHz Auto Mar
11 Aglient Spectrum Analyze 21 RL RF Center Freq 2.44 Ref Offs 10 dB/div Ref 20 10.0 .000	r - Swept SA 50 Q AC 1/1500000 GHz PN0: Wide C IFGain:Low et 2.96 dB .00 dBm 1 .00 dBm 1 .00 dBm 1 .00 dBm 4 .00 dBm 1 .00 dBm 1 .00 dBm 4 .00 dBm 4 .00 dBm 1 .00 dBm 4 .00 dBm .00	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2 Mkr1 2 Mkr1 2 Mkr2 2	D2:16:44PMOct 16, 2024 TRACE 12 2 3 4 5 6 TYPE MWWWW 2.441 052 GHz 6.840 dBm 000000000000000000000000000000000000	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz 2.442500000 GHz 2.442500000 GHz CF Step 200.000 kHz Auto Man
I1 Ref Applent Spectrum Analyze Ref Offs Center Freq 2.44 Ref I0 dB/div Ref Offs I0 dB/div Ref 20 0.0 Ref 0ffs 10.0 Ref 0ffs 0.00 Ref 0ffs 10.0 Ref 0ffs 0.00 Ref 0ffs 10.0 Ref 0ffs 0.00 Ref 0ffs -20.0 Ref 0ffs -30.0 Ref 0ffs -40.0 Ref 0ffs -60.0 Ref 0ffs -70.0 Ref 0ffs Center 2.441500 (#Res BW 30 kHz Miss Model Field Scie 1 f 2 N 3 S 4 S <tr td=""></tr>	r - Swept SA 50 Q AC 1/1500000 GHz PN0: Wide C IFGain:Low et 2.96 dB .00 dBm 1 .00 dBm 1 .00 dBm 1 .00 dBm 4 .00 dBm 1 .00 dBm 1 .00 dBm 4 .00 dBm 4 .00 dBm 1 .00 dBm 4 .00 dBm .00	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2 Mkr1 2 Mkr1 2 Mkr2 2	D2:16:44PMOct 16, 2024 TRACE 12 2 3 4 5 6 TYPE MWWWW 2.441 052 GHz 6.840 dBm 000000000000000000000000000000000000	Auto Tune Center Frec 2.441500000 GHz Start Frec 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz 2.442500000 GHz 2.00.000 kHz Auto Mar
11 Aglient Spectrum Analyze 21 RL RF Center Freq 2.44 Ref Offs 10 dB/div Ref 20 10.0 .000	r - Swept SA 50 Q AC 1/1500000 GHz PN0: Wide C IFGain:Low et 2.96 dB .00 dBm 1 .00 dBm 1 .00 dBm 1 .00 dBm 4 .00 dBm 1 .00 dBm 1 .00 dBm 4 .00 dBm 4 .00 dBm 1 .00 dBm 4 .00 dBm .00	SENSE:INT Trig: Free Run #Atten: 30 dB	5 2441MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2 Mkr1 2 Mkr1 2 Mkr2 2	D2:16:44PMOct 16, 2024 TRACE 12 2 3 4 5 6 TYPE MWWWW 2.441 052 GHz 6.840 dBm 000000000000000000000000000000000000	Auto Tune Center Freq 2.441500000 GHz Start Freq 2.440500000 GHz 2.442500000 GHz 2.442500000 GHz 2.442500000 GHz 2.442500000 GHz CF Step 200.000 kHz Auto Man

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		CFS NVNT 1-DF	15 2 1000011274111		
Agilent Spectrum Analyzer K/ RL RF	- Swept SA 50 Ω AC	SENSE:INT	ALIGN AUTO	02:19:51 PM Oct 16, 2024	Fr
Center Freq 2.47			Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
	et 2.98 dB	#Atten: 30 dB	Mkr1	2.479 032 GHz 7.291 dBm	Auto Tune
Log	.00 dBm		<u>\</u> 2	7.291 UBIII	
0.00	mont				Center Free 2.479500000 GH
-10.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Mar and and a second se	~~~	- martin	
-20.0					Start Free
-40.0					2.478500000 GH
-50.0					Stop Free
-70.0					2.480500000 GH
Center 2.479500 C				Span 2.000 MHz	CF Step
#Res BW 30 kHz	#VE	W 100 kHz	Sweep 2.	133 ms (1001 pts)	200.000 kH <u>Auto</u> Mai
1 N 1 f 2 N 1 f 3	2.479 032 GHz 2.479 954 GHz	7.291 dBm 8.248 dBm			F O ff
3 4 5					Freq Offse 0 H
4 5 6 7 8 9					
8 9 10					
10					
				×	
< J		CFS NVNT 2-DF	status 15 2402MHz Antl	×	
Kilent Spectrum Analyzer	- Swept SA 50 Ω AC	SENSE:INT		02:24:06 PM Oct 16, 2024 TRACE 2 3 4 5 6 TYPE MANNAN DET P N N N N	Frequency
Aglient Spectrum Analyzer	- Swept SA 50 Ω AC 2500000 GHz PNO: Wide (SENSE:INT	H5 2402MHz Antl ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:24:06 PM Oct 16, 2024 TRACE 12 23 4 5 6	Frequency Auto Tune
Aglient Spectrum Analyzer	Swept SA 50 Ω AC 25500000 GHz PN0: Wide (IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Antl ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:24:06 PM Oct 16, 2024 TRACE 12:34:5.6 TYPE MANNANNA DET P N N N N 2.401 998 GHZ	
Agilent Spectrum Analyzer	Swept SA 50 Ω AC 25500000 GHz PN0: Wide (IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Antl ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:24:06 PM Oct 16, 2024 TRACE 12:34:5.6 TYPE MANNANNA DET P N N N N 2.401 998 GHZ	Auto Tune
Agilent Spectrum Analyzer	Swept SA 50 Ω AC 25500000 GHz PN0: Wide (IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Antl ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:24:06 PM Oct 16, 2024 TRACE 12:34:5.6 TYPE MANNANNA DET P N N N N 2.401 998 GHZ	Auto Tuno Center Free 2.402500000 GH
Agilent Spectrum Analyzer	Swept SA 50 Ω AC 25500000 GHz PN0: Wide (IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Antl ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:24:06 PM Oct 16, 2024 TRACE 12:34:5.6 TYPE MANNANNA DET P N N N N 2.401 998 GHZ	Auto Tuno Center Free
Agilent Spectrum Analyzer RL RF Center Freq 2.40 0 Ref Offs 10 Ref 20. 0 0.00 -0.0	Swept SA 50 Ω AC 25500000 GHz PN0: Wide (IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Antl ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:24:06 PM Oct 16, 2024 TRACE 12:34:5.6 TYPE MANNANNA DET P N N N N 2.401 998 GHZ	Auto Tuno Center Free 2.402500000 GH
Agilent Spectrum Analyzer Agilent Spectrum Analyzer R R RF Center Freq 2.40 Ref Offs 10 dB/div Ref 20. 10.0 -0.0	Swept SA 50 Ω AC 25500000 GHz PN0: Wide (IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Antl ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:24:06 PM Oct 16, 2024 TRACE 12:34:5.6 TYPE MANNANNA DET P N N N N 2.401 998 GHZ	Auto Tune Center Free 2.402500000 GH Start Free 2.401500000 GH Stop Free
Agilent Spectrum Analyzer Agilent Spectrum Analyzer Center Freq 2.40 Ref Offs 10 dB/div Ref 20. 10.0 .000	Swept SA 50 Ω AC 25500000 GHz PN0: Wide (IFGain:Low et 2.92 dB	SENSE:INT	H5 2402MHz Antl ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:24:06 PM Oct 16, 2024 TRACE 12:34:5.6 TYPE MANNANNA DET P N N N N 2.401 998 GHZ	Auto Tune Center Free 2.402500000 GH Start Free 2.401500000 GH
Ref Offs 10 dB/div Ref Offs 10 dB/div Ref 20. 00	- Swept SA 30 Ω AC PNO: Wide (IFGain:Low et 2.92 dB .00 dBm .00 dBm .00 dBm .00 dBm .00 dBm	SENSE:INT	IS 2402MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	02:24:06 PM Oct 16, 2024 TRACE 2.34 5.6 TYPE P.N.N.N.N 2.401 998 GHz 5.833 dBm 2.401 998 GHz 5.833 dBm 2.401 998 GHz 5.833 dBm 1.101 998 GHz 1.101	Auto Tune Center Free 2.402500000 GH Start Free 2.401500000 GH Stop Free
Ref Offs 10 dB/div Ref Offs 10 dB/div Ref 20. 9	- Swept SA 30 Ω AC PNO: Wide (IFGain:Low et 2.92 dB .00 dBm .00 dBm .00 dBm .00 dBm .00 dBm	SENSE:INT	IS 2402MHz Ant1 ALIGNAUTO Avg Type: Log-Pvr Avg Hold>100/100 Mkr1	02:24:06 PM Oct 16, 2024 TRACE 2 34 5 6 TYPE 2 34 5 6 TYPE P NNNN 2.401 998 GHz 5.833 dBm 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Start Free 2.402500000 GH Start Free 2.401500000 GH Stop Free 2.403500000 GH CF Step 200.000 kH Auto Mar
Agilent Spectrum Analyzer Agilent Spectrum Analyzer X RL Z Ref Offs Center Freq 2.400 10 dB/div Ref 20. -0 db/div Ref 20. -20 db/div Ref 20. -30 db/div Ref 20. -40 db/div Ref 20. -50 db/div Ref 20. -60 db/div Ref 20. -70 db/div Ref 20.	- Swept SA 50 Ω AC 2250000 GHz PH0: Wide (IFGain:Low et 2.92 dB 00 dBm 1 1 3Hz #VE 2.401 998 GHz	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2402MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	02:24:06 PM Oct 16, 2024 TRACE 2.34 5.6 TYPE P.N.N.N.N 2.401 998 GHz 5.833 dBm 2.401 998 GHz 5.833 dBm 2.401 998 GHz 5.833 dBm 1.101 998 GHz 1.101	Auto Tuno Center Free 2.402500000 GH Start Free 2.401500000 GH Stop Free 2.403500000 GH
Agilent Spectrum Analyzer Agilent Spectrum Analyzer X RL Z Ref Offs Center Freq 2.400 10 dB/div Ref 20. -0 db/div Ref 20. -20 db/div Ref 20. -30 db/div Ref 20. -40 db/div Ref 20. -50 db/div Ref 20. -60 db/div Ref 20. -70 db/div Ref 20.	- Swept SA 50 Ω AC 2250000 GHz PH0: Wide (IFGain:Low et 2.92 dB 00 dBm 1 1 3Hz #VE 2.401 998 GHz	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2402MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	02:24:06 PM Oct 16, 2024 TRACE 2.34 5.6 TYPE P.N.N.N.N 2.401 998 GHz 5.833 dBm 2.401 998 GHz 5.833 dBm 2.401 998 GHz 5.833 dBm 1.101 998 GHz 1.101	Auto Tune Center Free 2.402500000 GH Start Free 2.401500000 GH Stop Free 2.403500000 GH CF Step 200.000 kH Auto Freq Offsee
Ref Offs 10 dB/div Ref Offs 10 dB/div Ref 20. 9	- Swept SA 50 Ω AC 2250000 GHz PH0: Wide (IFGain:Low et 2.92 dB 00 dBm 1 1 3Hz #VE 2.401 998 GHz	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2402MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	02:24:06 PM Oct 16, 2024 TRACE 2.34 5.6 TYPE P.N.N.N.N 2.401 998 GHz 5.833 dBm 2.401 998 GHz 5.833 dBm 2.401 998 GHz 5.833 dBm 1.101 998 GHz 1.101	Auto Tune Center Free 2.402500000 GH Start Free 2.401500000 GH Stop Free 2.403500000 GH CF Step 200.000 kH Auto Freq Offsee
Agilent Spectrum Analyzer ISG Agilent Spectrum Analyzer RL RF Center Freq 2.40 Ref Offs 10.0 .00	- Swept SA 50 Ω AC 2250000 GHz PH0: Wide (IFGain:Low et 2.92 dB 00 dBm 1 1 3Hz #VE 2.401 998 GHz	SENSE:INT Trig: Free Run #Atten: 30 dB	IS 2402MHz Ant1 Autonauto Avg Type: Log-Pwr Avg Hold>100/100 Mkr1	02:24:06 PM Oct 16, 2024 TRACE 2.34 5.6 TYPE P.N.N.N.N 2.401 998 GHz 5.833 dBm 2.401 998 GHz 5.833 dBm 2.401 998 GHz 5.833 dBm 1.101 998 GHz 1.101	Auto Tune Center Free 2.402500000 GH Start Free 2.401500000 GH Stop Free 2.403500000 GH CF Step 200.000 kH Auto Freq Offsee

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			CFS NVNT 2-DF			
Agilent Spectrun X/ RL	n Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	ALIGN AUTO	02:29:21 PM Oct 16, 2024	
	q 2.44150000		Trig: Free Run	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWMMMM	Frequency
		IFGain:Low	#Atten: 30 dB	Mkrt	DET P NNNNN 2.440 994 GHz	Auto Tun
10 dB/div	Ref Offset 2.96 dB Ref 20.00 dBm				4.924 dBm	
10.0)1		2		Center Free
0.00	mm	monton	m	- Martin	American	2.441500000 GH
-10.0						Start Free
-30.0						2.440500000 GH
-40.0						
-60.0						Stop Free 2.442500000 GH
-70.0						
Center 2.44 #Res BW 3		#VB	W 100 kHz	Sweep 2.	Span 2.000 MHz 133 ms (1001 pts)	CF Ste 200.000 kH
MKR MODE TRC	SCL X		Y F	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
1 N 1 2 N 1 3		40 994 GHz 42 014 GHz	4.924 dBm 4.878 dBm			Freq Offse
4 5						0 Н
6						
8 9 10						
11					_	
					~	
ISG			CFS NVNT 2-DF	status 15 2480MHz Ant 1		
Agilent Spectrun XI R L	n Analyzer - Swept SA RF 50 Q AC 2 Q 2.479500000	0 GHz	SENSE:INT		02:34:01 PM Oct 16, 2024	Frequency
agilent Spectrun V RL Center Fre	RF 50 Ω AC eq 2.479500000		SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:34:01 PM Oct 16, 2024 TRACE [] 2:3:4:5 6 TYPE M WWWWW DET [P N N N N	
Agilent Spectrum	RF 50 Ω AC	D GHz PNO: Wide (SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:34:01 PM Oct 16, 2024	Frequency Auto Tun
Agilent Spectrum	RF 50 Ω AC 2 q 2.47950000(Ref Offset 2.98 dB	D GHz PNO: Wide (SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:34:01 PM Oct 16, 2024 TRACE [] 2 3 4 5 6 TYPE MANNANA DEF P NN N N 2.478 988 GHZ	Auto Tun
Agilent Spectrun X RL Center Fre	RF 50 Ω AC 2 q 2.47950000(Ref Offset 2.98 dB	D GHz PNO: Wide (SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:34:01 PM Oct 16, 2024 TRACE [] 2 3 4 5 6 TYPE MANNANA DEF P NN N N 2.478 988 GHZ	Auto Tun Center Free
Agilent Spectrun X RL Center Fre	RF 50 Ω AC 2 q 2.47950000(Ref Offset 2.98 dB	D GHz PNO: Wide (SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:34:01 PM Oct 16, 2024 TRACE [] 2 3 4 5 6 TYPE MANNANA DEF P NN N N 2.478 988 GHZ	Auto Tun Center Free 2.479500000 GH
Agilent Spectrun X RL Center Fre 10 dB/div Log 10.0 .0.0 .20.0 .30.0	RF 50 Ω AC 2 q 2.47950000(Ref Offset 2.98 dB	D GHz PNO: Wide (SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:34:01 PM Oct 16, 2024 TRACE [] 2 3 4 5 6 TYPE MANNANA DEF P NN N N 2.478 988 GHZ	Auto Tun Center Free
Agilent Spectrun X RL Center Fre 10 dB/div og 10.0 .0.0 .20.0 .30.0 .40.0	RF 50 Ω AC 2 q 2.47950000(Ref Offset 2.98 dB	D GHz PNO: Wide (SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:34:01 PM Oct 16, 2024 TRACE [] 2 3 4 5 6 TYPE MANNANA DEF P NN N N 2.478 988 GHZ	Auto Tun Center Free 2.47950000 GH
Agilent Spectrun X RL Center Fre 10 dB/div Log 10.0 .0.0 .20.0 .30.0	RF 50 Ω AC 2 q 2.47950000(Ref Offset 2.98 dB	D GHz PNO: Wide (SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:34:01 PM Oct 16, 2024 TRACE [] 2 3 4 5 6 TYPE MANNANA DEF P NN N N 2.478 988 GHZ	Auto Tun Center Free 2.479500000 GH Start Free 2.478500000 GH
Agilent Spectrun X RL Center Fre 10 dB/div og 10.0 .0.0 .20.0 .30.0 .40.0 .50.0	RF 50 Ω AC 2 q 2.47950000(Ref Offset 2.98 dB	D GHz PNO: Wide (SENSE:INT	15 2480MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	02:34:01 PM Oct 16, 2024 TRACE [] 2 3 4 5 6 TYPE MANNANA DEF P NN N N 2.478 988 GHZ	Auto Tun Center Free 2.47950000 GH Start Free 2.478500000 GH
Agilent Spectrun X RL Center Fre 10 dB/div Log 10.0 .0	Ref Offset 2.98 dB Ref 20.00 dBm	1 Market Construction of the second	SENSE:INT	IS 2480MHz Ant1 ALISNAUTO Avg Type: Log-Pvr Avg Hold>100/100 Mkr1	02:34:01 PM Oct 16, 2024 TRACE [] 2:3 4 5 6 TYPE [] 2:3 4 5 6 TYPE [] 2:3 4 5 6 TYPE [] 2:0 4 5 TYPE [] 2:000 MHz	Auto Tun Center Free 2.479500000 GH Start Free 2.478500000 GH Stop Free 2.480500000 GH
Agilent Spectrum X RL Center Fre 10 dB/div Log 10.0 .0	Ref Offset 2.98 dB Ref 20.00 dBm	D GHz PRO: Wide IFGain:Low 1 4 4 WB	SENSE:INT	IS 2480MHz Ant1 ALISNAUTO Avg Type: Log-Pvr Avg Hold>100/100 Mkr1	02:34:01 PM Oct 16, 2024 TRACE 2 3 4 5.6 TYPE MAXMMODE PP NNNN 2.478 988 GHz 4.848 dBm	Auto Tun Center Free 2.47950000 GH 2.47850000 GH 2.47850000 GH Stop Free 2.48050000 GH
Agilent Spectrun X RL Center Fre 10 dB/div Log 10.0 .0	RF 50 Ω AC Iq 2.479500000 AC AC Ref Offset 2.98 dB AC AC Ref 20.00 dBm AC AC 79500 GHz 0 kHz XA AC SQL XA XA XA f 2.4 XA XA	1 Market Construction of the second	SENSE:INT	IS 2480MHz Ant1	02:34:01 PM Oct 16, 2024 TRACE 12:34:56 TYPE MAXMON DEF P NNNN 2.478 988 GHz 4.848 dBm 4.848 dBm 5 pan 2.000 MHz 133 ms (1001 pts)	Start Free 2.479500000 GH Start Free 2.478500000 GH Stop Free 2.480500000 GH CF Step 200.000 kH Auto
X RL Center Fre 10 dB/div 0g	Ref Offset 2.98 dB Ref 20.00 dBm	PNO: Wide O IFGain:Low #VB	SENSE:INT → Trig: Free Run #Atten: 30 dB	IS 2480MHz Ant1	02:34:01 PM Oct 16, 2024 TRACE 12:34:56 TYPE MAXMON DEF P NNNN 2.478 988 GHz 4.848 dBm 4.848 dBm 5 pan 2.000 MHz 133 ms (1001 pts)	Auto Tun Center Free 2.479500000 GH Start Free 2.478500000 GH Stop Free 2.480500000 GH
Agilent Spectrun X RL Center Fre 10 dB/div Log 10.0 .0000 .000 .000	Ref Offset 2.98 dB Ref 20.00 dBm	PNO: Wide O IFGain:Low #VB	SENSE:INT → Trig: Free Run #Atten: 30 dB	IS 2480MHz Ant1	02:34:01 PM Oct 16, 2024 TRACE 12:34:56 TYPE MAXMON DEF P NNNN 2.478 988 GHz 4.848 dBm 4.848 dBm 5 pan 2.000 MHz 133 ms (1001 pts)	Auto Tun Center Free 2.479500000 GH Start Free 2.478500000 GH Stop Free 2.480500000 GH CF Step 200.000 kH Auto Auto Freq Offsee
Agilent Spectrun X RL Center Fre 10 dB/div Log 10.0 .0	Ref Offset 2.98 dB Ref 20.00 dBm	PNO: Wide O IFGain:Low #VB	SENSE:INT → Trig: Free Run #Atten: 30 dB	IS 2480MHz Ant1	02:34:01 PM Oct 16, 2024 TRACE 12:34:56 TYPE MAXMON DEF P NNNN 2.478 988 GHz 4.848 dBm 4.848 dBm 5 pan 2.000 MHz 133 ms (1001 pts)	Auto Tun Center Free 2.479500000 GH Start Free 2.478500000 GH Stop Free 2.480500000 GH CF Step 200.000 kH Auto Auto Freq Offsee
Agilent Spectrum X RL Center Free 10 dB/div Log 10.0 .0.0	Ref Offset 2.98 dB Ref 20.00 dBm	PNO: Wide O IFGain:Low #VB	SENSE:INT → Trig: Free Run #Atten: 30 dB	IS 2480MHz Ant1	02:34:01 PM Oct 16, 2024 TRACE 12:34:56 TYPE MAXMON DEF P NNNN 2.478 988 GHz 4.848 dBm 4.848 dBm 5 pan 2.000 MHz 133 ms (1001 pts)	Auto Tun Center Free 2.479500000 GH Start Free 2.478500000 GH Stop Free 2.480500000 GH CF Step 200.000 kH Auto Auto Freq Offsee

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Frequency	02:40:04 PM Oct 16, 2024 TRACE 1 2 3 4 5 6	ALIGNAUTO Avg Type: Log-Pwr	SENSE:INT	2 AC		RL
+	TYPE MWWWWW DET P N N N N N	Avg Hold:>100/100	Trig: Free Run #Atten: 30 dB	00000 GHz PNO: Wide G IFGain:Low	•req 2.402	nter F
Auto Tu	2.401 980 GHz 4.902 dBm	Mkr1			Ref Offset Ref 20.0	dB/div
Contor Er	2				1101 20.0	
Center Fr 2.402500000 G	-A	m		- Marine	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	<u></u>				V - 14	.0
Start Fr						.0
2.401500000 G						.0
Stop Fr						.0
2.403500000 G						.0
	Span 2.000 MHz 133 ms (1001 pts)	Sween 2	N 100 kHz		.402500 GI / 30 kHz	
Auto M		NOTION FUNCTION WIDTH		× *		r mode t
Eron Offe			4.902 dBm 5.524 dBm	2.401 980 GHz 2.403 156 GHz	1 f 1 f	N [•]
Freq Offs 0						
	×	status 5 2441MHz Ant1	CFS NVNT 3-DH	(1
Frequency	02:44:46 PM Oct 16, 2024	5 2441MHz Ant1 Alignauto Avg Type: Log-Pwr	SENSE:INT	vept SA 2 AC 00000 GHz		ent Specti R L
	02:44:46 PM Oct 16, 2024 TRACE 12, 24, 56 TYPE MWWWWW DET IP N N N N	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	-	vept SA 2 AC	RF 5	ent Specti R L
Auto Tu	02:44:46PM Oct 16, 2024 TRACE 12:3:4:5:6 TYPE MWWWWW	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	SENSE:INT	vept SA 2 AC 000000 GHz PN0: Wide C IFGain:Low .96 dB	RF 5	ent Spect RL Inter F
Auto Tu	02:44:46PM Oct 16, 2024 TRACE 12 23 4 5 6 TYPE MMWWWW DET P N N N N 2.441 002 GHZ	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	SENSE:INT	vept SA 2 AC 000000 GHz PN0: Wide C IFGain:Low .96 dB	RF 5	ent Spect RL Inter F
Auto Tu	02:44:46PM Oct 16, 2024 TRACE 12 23 4 5 6 TYPE MMWWWW DET P N N N N 2.441 002 GHZ	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	SENSE:INT	vept SA 2 AC 000000 GHz PN0: Wide C IFGain:Low .96 dB	RF 5	ent Spect RL inter F
Auto Tu Center Fr 2.441500000 G	02:44:46PM Oct 16, 2024 TRACE 12 23 4 5 6 TYPE MMWWWW DET P N N N N 2.441 002 GHZ	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	SENSE:INT	vept SA 2 AC 000000 GHz PN0: Wide C IFGain:Low .96 dB	RF 5	ent Spect RL nter F
Auto Tu Center Fr	02:44:46PM Oct 16, 2024 TRACE 12 23 4 5 6 TYPE MMWWWW DET P N N N N 2.441 002 GHZ	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	SENSE:INT	vept SA 2 AC 000000 GHz PN0: Wide C IFGain:Low .96 dB	RF 5	ent Spect RL mter F
Auto Tu Center Fr 2.441500000 G Start Fr	02:44:46PM Oct 16, 2024 TRACE 12 23 4 5 6 TYPE MMWWWW DET P N N N N 2.441 002 GHZ	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	SENSE:INT	vept SA 2 AC 000000 GHz PN0: Wide C IFGain:Low .96 dB	RF 5	dB/div g a a a b a a b a a b a a b a a b a a a a b a a a a a b a a a a a a a a a a a a a
Auto Tu Center Fr 2.441500000 G Start Fr 2.440500000 G Stop Fr	02:44:46PM Oct 16, 2024 TRACE 12 23 4 5 6 TYPE MMWWWW DET P N N N N 2.441 002 GHZ	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	SENSE:INT	vept SA 2 AC 000000 GHz PN0: Wide C IFGain:Low .96 dB	RF 5	dB/div g a a a b a a b a b a a b a a a a b a a a a a a a a a a a a a
Center Fr 2.441500000 G Start Fr 2.440500000 G	02:44:46PM Oct 16, 2024 TRACE 12 23 4 5 6 TYPE MMWWWW DET P N N N N 2.441 002 GHZ	5 2441MHz Ant1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	SENSE:INT	vept SA 2 AC 000000 GHz PN0: Wide C IFGain:Low .96 dB	RF 5	dB/div g o o o o o o o o o o o o o
Center Fr 2.441500000 G Start Fr 2.440500000 G Stop Fr 2.442500000 G CF Sto	02:44:46 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE MMWWWW DET P NNNN 2.441 002 GHz 6.356 dBm	5 2441MHz Ant1	SENSE:INT Trig: Free Run #Atten: 30 dB	vept SA 2 AC PNO: Wide G IFGain:Low .96 dB dBm 1 	Ref Offset Ref 20.0	dB/div g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Center Fr 2.441500000 G Start Fr 2.440500000 G Stop Fr 2.442500000 G	02:44:46 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE 12 5	5 2441MHz Ant1	SENSE:INT Trig: Free Run #Atten: 30 dB	vept SA 2 AC PNO: Wide G IFGain:Low .96 dB dBm 1 	Ref Offset Ref 20.0	dB/div g g dB/div g g dB/div g g g dB/div g g dB/div g g g dB/div g g dB/div g g g dB/div g g dB/div g g g dB/div g g dB/div g g g dB/div g g g dB/div g g g g g g g g g g g g g g g g g g g
Center Fr 2.441500000 G Start Fr 2.440500000 G Stop Fr 2.442500000 G CF St 200.000 k Auto	02:44:46 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE 12 3 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5 2441MHz Ant1	SENSE:INT Trig: Free Run #Atten: 30 dB	vept SA 2 AC PNO: Wide G IFGain:Low .96 dB dBm 1 	Ref Offset Ref 20.0	ent Spect RL enter F
Center Fr 2.441500000 G Start Fr 2.440500000 G Stop Fr 2.442500000 G CF Sto 2.00.00 k	02:44:46 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE 12 3 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5 2441MHz Ant1	SENSE:INT Trig: Free Run #Atten: 30 dB	wept SA 2 AC O0000 GHz PN0: Wide G PN0: Wide G IFGain:Low .96 dB	Ref Offset Ref 20.0	ent Spect RL inter F
Center Fr 2.441500000 G Start Fr 2.440500000 G Stop Fr 2.442500000 G CF St 200.000 k Auto Freq Offs	02:44:46 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE 12 3 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5 2441MHz Ant1	SENSE:INT Trig: Free Run #Atten: 30 dB	wept SA 2 AC O0000 GHz PN0: Wide G PN0: Wide G IFGain:Low .96 dB	Ref Offset Ref 20.0	ent Spect RL inter F dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0
Center Fr 2.441500000 G Start Fr 2.440500000 G Stop Fr 2.442500000 G CF St 200.000 k Auto Freq Offs	02:44:46 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE 12 3 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5 2441MHz Ant1	SENSE:INT Trig: Free Run #Atten: 30 dB	wept SA 2 AC O0000 GHz PN0: Wide G PN0: Wide G IFGain:Low .96 dB	Ref Offset Ref 20.0	ent Spect RL inter F 00 00 00 00 00 00 00 00 00 00 00 00 00
Center Fr 2.441500000 G Start Fr 2.440500000 G Stop Fr 2.442500000 G CF St 200.000 k Auto Freq Offs	02:44:46 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE 12 3 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5 2441MHz Ant1	SENSE:INT Trig: Free Run #Atten: 30 dB	wept SA 2 AC O0000 GHz PN0: Wide G PN0: Wide G IFGain:Low .96 dB	Ref Offset Ref 20.0	ent Spect RL inter F dB/div 9 0 0 0 0 0 0 0 0 0 0 0 0 0

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gilent Spectrum Analyzer - Sv RL RF 50 g enter Freq 2.4795	R AC	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	02:49:26 PM Oct 16, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
Ref Offset 2 0 dB/div Ref 20.00	.98 dB	#Atten: 30 dB	Mkr1	2.479 148 GHz 6.376 dBm	Auto Tun
og 10.0 0.00			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2 ²	Center Fre 2.479500000 GH
0.0					Start Fre 2.478500000 G⊢
50.0 50.0 70.0					Stop Fre 2.480500000 GH
enter 2.479500 GHz Res BW 30 kHz		N 100 kHz	•	Span 2.000 MHz .133 ms (1001 pts)	CF Ste 200.000 kH Auto Ma
INF INO IF 1 N 1 F 2 N 1 F 3 4 5 6 5 6 7 7 8 9 1 1	× 2.479 148 GHz 2.480 154 GHz	Y F 6.376 dBm 6.252 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offse 0 H

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10. Number of Hopping Channels 10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold

3. Record the number of hopping channels.

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10.4Test Result Type of Modulation:

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
	1-DH5			15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
	3-DH5			15	Pass

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		st Graphs		
	Hopping No. NVN	T 1-DH5 2402MHz Ant1		
	Ω AC SENSE:IN	T ALIGNAUTO (Avg Type: Log-Pwr	12:13:25 PM Oct 16, 2024	requency
Center Freq 2.4417	750000 GHZ PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	
Ref Offset 2 10 dB/div Ref 20.00		Mkr1 2.40	02 004 0 GHz 8.190 dBm	Auto Tune
			2.4	Center Fred 41750000 GH:
-10.0 -20.0 -30.0 -40.0			2.4	Start Fred
-50.0 -60.0 -70.0			2.4	Stop Fred 83500000 GH;
Start 2.40000 GHz #Res BW 100 kHz	#VBW 300 kHz		op 2.48350 GHz 0 ms (1001 pts) FUNCTION VALUE	CF Step 8.350000 MH Mar
1 N 1 f 2 N 1 f 3 - - - 4 - - - 5 - - - 6 - - - 7 - - - 8 - - - 9 - - -	2.402 004 0 GHz 8.190 dBm 2.480 076 5 GHz 8.566 dBm			Freq Offse 0 Ha
< ISG		074710		
KRL RF 50	Swept SA		12:17:48PM Oct 16, 2024	requency
RL RF 50 Center Freq 2.4417 Ref Offset	Swept SA Q AC SENSE:IN 750000 GHz PNO: Wide Hatten: 30 dB 2.96 dB	T 1-DH5 2441MHz Ant1 T Aug Type: Log-Pwr Avg Type: Log-Pwr AvgHoid>100/100	12:17:49PM Oct 16, 2024 TRACE 12:34:5.6 TYPE P NNNN DET P NNNN 02:004:0 GHz 8.042 dBm	Frequency Auto Tune
RL RF 50 Center Freq 2.4417 Ref Offset 2 Ref 2.000 P0 1 Ref 20.00	Swept SA Q AC SENSE:IN 750000 GHz PNO: Wide Hatten: 30 dB 2.96 dB	T 1-DH5 2441MHz Ant1 T Aug Type: Log-Pwr Avg Type: Log-Pwr AvgHoid>100/100		Auto Tuno
RL RF 50 Center Freq 2.4417 Ref Offset 3 Ref 20.00 PS 1 Ref 20.00 PS 1 Ref 20.00 PS 1 Ref 20.00 PS 1 Ref 20.00 PS 1 Ref 20.00 PS 1 Ref 20.00 PS 1 PS 1	Swept SA Q AC SENSE:IN 750000 GHz PNO: Wide Hatten: 30 dB 2.96 dB	T 1-DH5 2441MHz Ant1 T Aug Type: Log-Pwr Avg Type: Log-Pwr AvgHoid>100/100	123456 TYPE WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	Auto Tune Center Free 41750000 GH Start Free
Ref Offset 20.00	Swept SA Q AC SENSE:IN 750000 GHz PNO: Wide Hatten: 30 dB 2.96 dB	T 1-DH5 2441MHz Ant1 T Aug Type: Log-Pwr Avg Type: Log-Pwr AvgHoid>100/100	TRACE 12.3.4.5.6 P TYPEE BWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	Auto Tune Center Free 41750000 GH: Start Free 000000000 GH: Stop Free
RL RF 50 Center Freq 2.4411 Ref Offset 3 Ref 20.00 -09 -1 -1 10.0 -1 -1 -1 10.0 -1 -1 -1 10.0 -1 -1 -1 10.0 -1 -1 -1 -0.0 -1 -1 -1 -0.0 -1 -1 -1 -0.0 -1 -1 -1 -0.0 -1 -1 -1 -0.0 -1 -1 -1 -0.0 -1 -1 -1 -0.0 -1 -1 -1 -0.0 -1 -1 -1 -0.0 -1 -1 -1 -1 -0.0 -1 -1 -1 -1 -0.0 -1 -1 -1 -1 -0.0 -1 -1 -1 -1 -0.0 -1 -1	Swept SA 750000 GHz PN0: Wide IFGain:Low #Atten: 30 dB 2.96 dB 0 dBm A A A A A A A A A A A A A A A A A A A	T 1-DH5 2441MHz Ant1 T ALIGNAUTO C Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2.40	TRACE 12.3.4.5.6 F TYPEE B 9 D2 004 0 GHz 8.042 dBm 2 2 2.4 2.4 2 2.4 2.4 2 2.4 2.4	Auto Tune Center Free 41750000 GH: Start Free 000000000 GH: Stop Free 83500000 GH: CF Step 8.350000 MH:
RL RF 50 Center Freq 2.4411 Ref Offset: S0 10 dB/div Ref 20.00 100 9 1 100 100 10.00 1 100 100 100 10.00 1 100 100 100 10.00 1 100 100 100 -20.00 1 100 100 100 -20.00 1 1 1 1 1 -20.00 1 1 1 1 1 1 1 3 1	Swept SA Ω AC SENSE:IN 750000 GHz PN0: Wide IFGain:Low #Atten: 30 dB 2.96 dB 0 dBm 4.10 #Atten: 30 dB 1.10 #Atten: 30 dB 1.10 #Atten: 40 dB 1.10 #VBW 300 kHz	T 1-DH5 2441MHz Ant1 T ALIGNAUTO IC Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2.40 Mkr140 Mkr1 2.40 Mkr140 Mkr140 Mkr140 Mkr140 Mkr140 Mkr140 Mkr140	D2 004 0 GHz 8.042 dBm 22.4 2.4 00 2.48350 GHz 0 ms (1001 pts)	Auto Tune Center Free 41750000 GH: Start Free 00000000 GH: Stop Free 83500000 GH: CF Step 8.350000 MH: Mar Free Offse
RL RF 50 Center Freq 2.4411 Ref Offset: Ref 20.00 10 dB/div Ref 20.00 10.0 1 1 10.0 1 1 10.0 1 1 10.0 1 1 10.0 1 1 10.0 1 1 10.0 1 1 10.0 1 1	Swept SA SENSE:IN Q2 AC SENSE:IN 750000 GHz Trig: Free Run IFGain:Low Trig: Free Run #Atten: 30 dB 2.96 dB 0 0 0 dBm 0 0 <t< td=""><td>T 1-DH5 2441MHz Ant1 T ALIGNAUTO IC Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2.40 Mkr140 Mkr1 2.40 Mkr140 Mkr140 Mkr140 Mkr140 Mkr140 Mkr140 Mkr140</td><td>D2 004 0 GHz 8.042 dBm 22.4 2.4 00 2.48350 GHz 0 ms (1001 pts)</td><td>Center Frec 41750000 GH2 Start Frec 00000000 GH2 Stop Frec B3500000 GH2 CF Step 8.350000 MH2 Mar Freq Offset 0 H2</td></t<>	T 1-DH5 2441MHz Ant1 T ALIGNAUTO IC Avg Type: Log-Pwr Avg Hold>100/100 Mkr1 2.40 Mkr140 Mkr1 2.40 Mkr140 Mkr140 Mkr140 Mkr140 Mkr140 Mkr140 Mkr140	D2 004 0 GHz 8.042 dBm 22.4 2.4 00 2.48350 GHz 0 ms (1001 pts)	Center Frec 41750000 GH2 Start Frec 00000000 GH2 Stop Frec B3500000 GH2 CF Step 8.350000 MH2 Mar Freq Offset 0 H2

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	:1	I-DH5 2480MHz Ant	ping No. NVNI	Нор	
Frequency	02:20:47 PM Oct 16, 2024 TRACE 1 2 3 4 5 6	ALIGNAUTO Avg Type: Log-Pwr	SENSE:INT	- Swept SA 50 Ω AC	
Auto Tune	DET P N N N N	Avg Hold:>100/100	 Trig: Free Run #Atten: 30 dB 	PNO: Wide (IFGain:Low	
Auto Tune	402 004 0 GHz 7.897 dBm	Mkr1 2.		et 2.98 dB 00 dBm	
Center Fred 2.441750000 GHz					
Start Free 2.400000000 GH:	\				0.0 0.0 0.0
Stop Fred 2.483500000 GH:					0.0
CF Step 8.350000 MH	Stop 2.48350 GHz 000 ms (1001 pts)		W 300 kHz		tart 2.40000 Res BW 100
<u>Auto</u> Mar	FUNCTION VALUE	UNCTION FUNCTION WIDTH	7.897 dBm	× 2.402 004 0 GHz	KR MODE TRC S
Freq Offse 0 Ha			8.922 dBm	2.480 160 0 GHz	2 N 1 1 3 4 5 6 7 8 9
					5 7 8
					9
	×				9 0 1
	×	STATUS			0
		status 2-DH5 2402MHz Ant	ping No. NVNT 2	Нор	0
Frequency	02:25:30 PM Oct 16, 2024	2-DH5 2402MHz Ant	ping No. NVNT	- Swept SA 50 Ω AC	0 1 3 ilent Spectrum A R L f
	:1	2-DH5 2402MHz Ant	SENSE:INT	- Swept SA	0 1 3 ilent Spectrum A R L f
Frequency Auto Tune	02:25:30 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE	2-DH5 2402MHz Ani Alignauto Avg Type: Log-Pwr Avg Hold>100/100	SENSE:INT	- Swept SA 50 Ω AC 1750000 GHz PNO: Wide (ilent Spectrum / RL f enter Freq
	02:25:30 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE MMMMMMM 0ET P N N N N 402 004 0 GHz	2-DH5 2402MHz Ani Alignauto Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1 2.	SENSE:INT	- Swept SA 50 Ω AC 1750000 GHz PN0: Wide (IFGain:Low et 2.92 dB 00 dBm	o 1 1 1 1 1 1 1 1 1 1 1 1 1
Auto Tune Center Free	02:25:30 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE MMMMMMM 0ET P N N N N 402 004 0 GHz	2-DH5 2402MHz Ani Alignauto Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1 2.	SENSE:INT	- Swept SA 50 Ω AC 1750000 GHz PN0: Wide (IFGain:Low et 2.92 dB 00 dBm	a ilent Spectrum / RL F enter Freq 0 dB/div R 1 0 dB/div R 1 0 dB/div R 0 dB/div R 1 0 dB/div R
Auto Tune Center Free 2.441750000 GH: Start Free	02:25:30 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE MMMMMMM 0ET P N N N N 402 004 0 GHz	2-DH5 2402MHz Ani Alignauto Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1 2.	SENSE:INT	- Swept SA 50 Ω AC 1750000 GHz PN0: Wide (IFGain:Low et 2.92 dB 00 dBm	o 1 1 1 1 1 1 1 1 1 1 1 1 1
Auto Tune Center Free 2.441750000 GH: Start Free 2.400000000 GH: Stop Free	02:25:30 PM Oct 16, 2024 TRACE 12 3 4 5 6 TYPE MMMMMMM 0ET P N N N N 402 004 0 GHz	2-DH5 2402MHz Ani Avg Type: Log-Pwr AvgHold>100/100 Mkr1 2.	SENSE:INT	- Swept SA 50 Ω AC 1750000 GHz PNO: Wide (IFGain:Low et 2.92 dB .00 dBm	ient Spectrum / RL F enter Freq dB/div R 9 0 0 0 0 0 0 0 0 0 0 0 0 0
Auto Tune Center Free 2.441750000 GH: Start Free 2.400000000 GH: Stop Free 2.483500000 GH: CF Step 8.350000 MH:	1 1 1 1 1 1 1 1 1 1 1 1 2 3 5 1 1 2 3 5 5 1 2 3 5 6 1 2 3 5 6 1 2 3 5 6 1 2 3 5 6 1 7 7 7 7 8 1 2 3 5 6 7 7 7 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	2-DH5 2402MHz Ani Avg Type: Log-Pwr AvgHold>100/100 Mkr1 2.	SENSE:INT	- Swept SA 50 Ω AC 1750000 GHz PNO: Wide (IFGain:Low et 2.92 dB .00 dBm	Itent Spectrum A RL r renter Freq 0 dB/div R 0 dB/div
Auto Tune Center Freq 2.441750000 GH; Start Freq 2.400000000 GH; Stop Freq 2.483500000 GH; 8.350000 GH; 8.350000 MH; Auto Mar Freq Offset	1 1 1 1 1 1 1 1 1 1 1 1 2 3 5 1 1 2 3 5 5 1 2 3 5 6 1 2 3 5 6 1 2 3 5 6 1 2 3 5 6 1 7 7 7 7 8 1 2 3 5 6 7 7 7 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	2-DH5 2402MHz Ani Avg Type: Log-Pwr AvgHold>100/100 Mkr1 2.	SENSE:INT → Trig: Free Run #Atten: 30 dB	- Swept SA 50 Ω AC 175000 GHZ PN0: Wide (IFGain:Low et 2.92 dB 00 dBm 400 d	Itent Spectrum A RL r renter Freq 0 dB/div R 0 dB/div
Auto Tune Center Freq 2.441750000 GH; Start Freq 2.400000000 GH; Stop Freq 2.483500000 GH; 8.350000 GH; 8.350000 MH; Auto Mar Freq Offset	1 1 1 1 1 1 1 1 1 1 1 1 2 3 5 1 1 2 3 5 5 1 2 3 5 6 1 2 3 5 6 1 2 3 5 6 1 2 3 5 6 1 7 7 7 7 8 1 2 3 5 6 7 7 7 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	2-DH5 2402MHz Ani Avg Type: Log-Pwr AvgHold>100/100 Mkr1 2.	SENSE:INT → Trig: Free Run #Atten: 30 dB	- Swept SA 50 Ω AC 175000 GHZ PN0: Wide (IFGain:Low et 2.92 dB 00 dBm 400 d	0 0 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0

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										_	
A <mark>gilent Spectru</mark> K <mark>/</mark> R L	<mark>m Analyzer - Swept</mark> RF 50 Ω			SENS	E:INT		ALIGN AUTO		PM Oct 16, 20		Fraguese
Center Fre	eq 2.441750	PNO:	Wide 🖵 n:Low	Trig: Free #Atten: 30		Avg Type Avg Hold:	:: Log-Pwr ≻100/100	Т	ACE 1 2 3 4 YPE MWWW DET P N N N	ww.	Frequency
10 dB/div	Ref Offset 2.96 Ref 20.00 dB	dB					Mkr1 2.		37 0 GH		Auto Tun
10.0			9							2	Center Fre
0.00	WWWWW		WWWW	mm	NWWW.	MMM	nmm	ŶŴŴŴŴ	MANNY		2.441750000 GH
-10.0											Stort Fro
-30.0										Y.	Start Free 2.400000000 GH
-40.0										ĥ	
-60.0											Stop Free 2.483500000 GH
-70.0	00 647							Stop 2 /	18350 GI		
#Res BW 1	100 kHz		#VBW	300 kHz			Sweep 8.	000 ms	(1001 pt	ts)	CF Stej 8.350000 MH uto Ma
MKR MODE TRO	f 2.	× 401 837 0 G		Y 7.507 dB	m	CTION FUN	ICTION WIDTH	FUNCT	TION VALUE		<u>uto</u> Mai
2 N 1 3 4 5 6 7 8 9	f 2.	480 160 0 G	HZ	6.130 dB	m						Freq Offse 0 H
5 6										=	UH
7 8 9										_	
11										 ■ 	
10 11 (Hoppir	ng No. N	VNT 2-I	DH5 2480	status)MHz Ant	t1			
SG sgilent Spectru g RL	m Analyzer - Swept RF 50 Ω eq 2.441750	AC 000 GHz PNO:	Hoppir Wide 🖵		e:int Run)MHz Ant alignauto :: Log-Pwr	02:36:15 TR. T	PM Oct 16, 20 ACE 1234 YPE MWWW DET P N N N	124 5 6	Frequency
glient Spectru RL Center Fre	RF 50Ω.	AC 000 GHz PNO: IFGair	Wide 😱	SENS	e:int Run	Avg Type)MHz Ant alignauto :: Log-Pwr	02:36:15 TR. T	PM Oct 16, 20 ACE 1 2 3 4 YPE MWWW DET P N N N	124 56 NN 12	Frequency Auto Tun
11 sisg gilent Spectru RL Center Fre 10 dB/div	Ref Offset 2.98 Ref 20.00 dB	AC DOO GHz PNO: IFGain dB m	Wide 🖵	SENS Trig: Free #Atten: 30	SE:INT Run dB	Avg Type Avg Hold:	DMHz Ant ALIGNAUTO 2: Log-Pwr >100/100 Mkr1 2.	02:36:15 TR 401 75 3.6	PM Oct 16, 20 ACE 1 2 3 4 YPE MWWW DET P NNN 53 5 GH 522 dB	124 56 NN 12	
11 sisce RL Center From O dB/div O dB/div	Ref Offset 2.98 Ref 20.00 dB	AC DOO GHz PNO: IFGain dB m	Wide 🖵	SENS	SE:INT Run dB	Avg Type Avg Hold:)MHz Ant alignauto :: Log-Pwr > 100/100	02:36:15 TR 401 75 3.6	PM Oct 16, 20 ACE 1 2 3 4 YPE MWWW DET P NNN 53 5 GH 522 dB	024 5 6 N N 1z m 2	Auto Tun
11 ssc sc nt ssc nt nt nt nt nt nt nt nt nt nt	Ref Offset 2.98 Ref 20.00 dB	AC DOO GHz PNO: IFGain dB m	Wide 🖵	SENS Trig: Free #Atten: 30	SE:INT Run dB	Avg Type Avg Hold:	DMHz Ant ALIGNAUTO 2: Log-Pwr >100/100 Mkr1 2.	02:36:15 TR 401 75 3.6	PM Oct 16, 20 ACE 1 2 3 4 YPE MWWW DET P NNN 53 5 GH 522 dB	024 5 6 N N 1z m 2	Auto Tun Center Free 2.441750000 GH
11 Sigent Spectru RL Center From 10 dB/div Og 10.0 -20.0 -30.0	Ref Offset 2.98 Ref 20.00 dB	AC DOO GHz PNO: IFGain dB m	Wide 🖵	SENS Trig: Free #Atten: 30	SE:INT Run dB	Avg Type Avg Hold:	DMHz Ant ALIGNAUTO 2: Log-Pwr >100/100 Mkr1 2.	02:36:15 TR 401 75 3.6	PM Oct 16, 20 ACE 1 2 3 4 YPE MWWW DET P NNN 53 5 GH 522 dB	024 5 6 N N 1z m 2	Auto Tun Center Free
Agilent Spectru RL Center From 10 dB/div Og 10.0 	Ref Offset 2.98 Ref 20.00 dB	AC DOO GHz PNO: IFGain dB m	Wide 🖵	SENS Trig: Free #Atten: 30	SE:INT Run dB	Avg Type Avg Hold:	DMHz Ant ALIGNAUTO 2: Log-Pwr >100/100 Mkr1 2.	02:36:15 TR 401 75 3.6	PM Oct 16, 20 ACE 1 2 3 4 YPE MWWW DET P NNN 53 5 GH 522 dB	024 5 6 N N 1z m 2	Auto Tun Center Free 2.441750000 GH Start Free 2.400000000 GH
11 sige Agilent Spectru ar RL Center Fro 0 dB/div 0 dB/div	Ref Offset 2.98 Ref 20.00 dB	AC DOO GHz PNO: IFGain dB m	Wide 🖵	SENS Trig: Free #Atten: 30	SE:INT Run dB	Avg Type Avg Hold:	DMHz Ant ALIGNAUTO 2: Log-Pwr >100/100 Mkr1 2.	02:36:15 TR 401 75 3.6	PM Oct 16, 20 ACE 1 2 3 4 YPE MWWW DET P NNN 53 5 GH 522 dB	224 5 6 N N 2 2	Auto Tun Center Free 2.441750000 GH Start Free
11 Agilent Spectru RL Center Fre 10.0 -1.00 -20.0 -30.0 -50.0 -60.0 -70.0	Ref Offset 2.98 Ref 20.00 dB	AC DOO GHz PNO: IFGain dB m	Wide 🖵	SENS Trig: Free #Atten: 30	SE:INT Run dB	Avg Type Avg Hold:	ALIGNAUTO : Log-Pwr > 100/100 Mkr1 2.	02:36:15 TR T 401 75 3.6	PM Oct 16, 20 ACE 12 3 4 VPE MWWWM DET P NNN 33 5 GH 522 dB	224 56 WW N N 12 2	Auto Tun Center Fre 2.441750000 GH Start Fre 2.400000000 GH Stop Fre 2.483500000 GH
11 Iss Agilent Spectru & RL Center Fra 10 dB/div -00 -10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 2.400 #Res BW 1	Ref Offset 2.98 Ref 20.00 dB	AC DOO GHz PNO: IFGain dB m		SENS Trig: Free #Atten: 30	se:INT	Avg Type AvgHold:	MHz Ant ALIGNAUTO : Log-Pwr > 100/100 Mkr1 2. AMMMMM Sweep 8.	02:36:15 TR 7 3.0 WWWW Stop 2.4 000 ms	PM Oct 16, 20 ACE 1/2 3 4 VPE MWWW DET P NNN 33 5 GH 522 dB	224 5 6 NN 12 M 2 14 12 15 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	Auto Tun Center Free 2.441750000 GH Start Free 2.400000000 GH Stop Free 2.483500000 GH CF Steg 8.350000 MH
11 Isse Agilent Spectru RL Center Fre 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -50.0 -660.0 -70.0 Start 2.4000 #RE BW 1 1 1 1 1 1 1 1	Ref Offset 2.98 Ref 2.441750 Ref 20.00 dB	AC 000 GHz PNC: PNC: IFGain dB m 	#VBW	SENS Trig: Free #Atten: 30		Avg Type Avg Hold:	MHz Ant ALIGNAUTO : Log-Pwr > 100/100 Mkr1 2. AMMMMM Sweep 8.	02:36:15 TR 7 3.0 WWWW Stop 2.4 000 ms	PM Oct 16, 20 ACE 112 3 4 VPE MWWW DET P NNN 33 5 GH 322 dB	224 5 6 NN 12 M 2 14 12 15 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	Auto Tun Center Free 2.441750000 GH Start Free 2.400000000 GH Stop Free 2.483500000 GH CF Step 8.350000 MH uto Ma
11 ssg Agilent Spectru RL Center Fra 10 dB/div 0 g 10.0 -0 g 10.0 -0 g -10.0 -20.0 -30.0 -60.0 -60.0 -70.0 Start 2.400 #Res BW 1 MKR MODE TEE 1 N 2 N 3	Ref Offset 2.98 Ref 20.00 dB	AC 000 GHz PNO: PNO: IFGail	#VBW	SENS Trig: Free #Atten: 30		Avg Type AvgHold:	MHz Ant ALIGNAUTO : Log-Pwr > 100/100 Mkr1 2. AMMMMM Sweep 8.	02:36:15 TR 7 3.0 WWWW Stop 2.4 000 ms	PM Oct 16, 20 ACE 1/2 3 4 VPE MWWW DET P NNN 33 5 GH 522 dB	224 5 6 NN 12 M 2 14 12 15 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	Auto Tun Center Free 2.441750000 GH Start Free 2.400000000 GH Stop Free 2.483500000 GH 8.350000 MH uto Freq Offsee
11 sgient Spectru RL Center Fra 10 dB/div - og 10.0 - og 10.0 - og 10.0 - og - og <td< td=""><td>Ref Offset 2.98 Ref 2.441750 Ref 20.00 dB</td><td>AC 000 GHz PNC: PNC: IFGain dB m </td><td>#VBW</td><td>SENS Trig: Free #Atten: 30</td><td></td><td>Avg Type AvgHold:</td><td>MHz Ant ALIGNAUTO : Log-Pwr > 100/100 Mkr1 2. AMMMMM Sweep 8.</td><td>02:36:15 TR 7 3.0 WWWW Stop 2.4 000 ms</td><td>PM Oct 16, 20 ACE 1/2 3 4 VPE MWWW DET P NNN 33 5 GH 522 dB</td><td>224 5 6 NN 12 M 2 14 12 15 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14</td><td>Auto Tun Center Free 2.441750000 GH Start Free 2.400000000 GH Stop Free 2.483500000 GH CF Step 8.350000 MH uto Ma</td></td<>	Ref Offset 2.98 Ref 2.441750 Ref 20.00 dB	AC 000 GHz PNC: PNC: IFGain dB m 	#VBW	SENS Trig: Free #Atten: 30		Avg Type AvgHold:	MHz Ant ALIGNAUTO : Log-Pwr > 100/100 Mkr1 2. AMMMMM Sweep 8.	02:36:15 TR 7 3.0 WWWW Stop 2.4 000 ms	PM Oct 16, 20 ACE 1/2 3 4 VPE MWWW DET P NNN 33 5 GH 522 dB	224 5 6 NN 12 M 2 14 12 15 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	Auto Tun Center Free 2.441750000 GH Start Free 2.400000000 GH Stop Free 2.483500000 GH CF Step 8.350000 MH uto Ma
11 Image: Sector of the sector o	Ref Offset 2.98 Ref 2.441750 Ref 20.00 dB	AC 000 GHz PNC: PNC: IFGain dB m 	#VBW	SENS Trig: Free #Atten: 30		Avg Type AvgHold:	MHz Ant ALIGNAUTO : Log-Pwr > 100/100 Mkr1 2. AMMMMM Sweep 8.	02:36:15 TR 7 3.0 WWWW Stop 2.4 000 ms	PM Oct 16, 20 ACE 1/2 3 4 VPE MWWW DET P NNN 33 5 GH 522 dB	224 5 6 NN 12 M 2 14 12 15 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	Auto Tun Center Free 2.441750000 GH Start Free 2.400000000 GH Stop Free 2.483500000 GH 8.350000 MH uto Freq Offsee
11 sgient Spectru RL Center Fra 10 dB/div - og 10.0 - og 10.0 - og 10.0 - og - og <td< td=""><td>Ref Offset 2.98 Ref 2.441750 Ref 20.00 dB</td><td>AC 000 GHz PNC: PNC: IFGain dB m </td><td>#VBW</td><td>SENS Trig: Free #Atten: 30</td><td></td><td>Avg Type AvgHold:</td><td>MHz Ant ALIGNAUTO : Log-Pwr > 100/100 Mkr1 2. AMMMMM Sweep 8.</td><td>02:36:15 TR 7 3.0 WWWW Stop 2.4 000 ms</td><td>PM Oct 16, 20 ACE 1/2 3 4 VPE MWWW DET P NNN 33 5 GH 522 dB</td><td>124 5 5 6 NNN 12 m 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1</td><td>Auto Tun Center Free 2.441750000 GH Start Free 2.400000000 GH Stop Free 2.483500000 GH 8.350000 MH uto Freq Offsee</td></td<>	Ref Offset 2.98 Ref 2.441750 Ref 20.00 dB	AC 000 GHz PNC: PNC: IFGain dB m 	#VBW	SENS Trig: Free #Atten: 30		Avg Type AvgHold:	MHz Ant ALIGNAUTO : Log-Pwr > 100/100 Mkr1 2. AMMMMM Sweep 8.	02:36:15 TR 7 3.0 WWWW Stop 2.4 000 ms	PM Oct 16, 20 ACE 1/2 3 4 VPE MWWW DET P NNN 33 5 GH 522 dB	124 5 5 6 NNN 12 m 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Auto Tun Center Free 2.441750000 GH Start Free 2.400000000 GH Stop Free 2.483500000 GH 8.350000 MH uto Freq Offsee

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ailant Coosterum to the		Hopping No. NVNT :			1.00
gilent Spectrum Analy RL RF Center Freg 2.4	2er - Swept SA 50 Ω AC 441750000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:41:49 PM Oct 16, 2024 TRACE 1 2 3 4 5 6	Frequency
	PNO: W IFGain:		Avg Hold:>100/100	TYPE MWWWWW DET PNNNNN	Auto Tun
10 dB/div Ref 2	ffset 2.92 dB 2 0.00 dBm		Mkr1 2.4	102 004 0 GHz 7.140 dBm	
	14447 AMMA	LANANANANANANANANA	ANA ANA ANA ANA	1.5m/1.1.1.1.2	Center Free
0.00 //////////////////////////////////	11444444444444444444444444444444444444				2.441750000 GH
-20.0				~	Start Free
-40.0					2.400000000 GH
60.0					Stop Fre
70.0					2.483500000 GH
Start 2.40000 G #Res BW 100 kH		#VBW 300 kHz		top 2.48350 GHz 000 ms (1001 pts)	CF Step 8.350000 MH
MKR MODE TRC SCL	× 2.402 004 0 GH		FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
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enter Fre	RF 50 Ω eq 2.441750	AC 0000 GHz PNO: Wide C IFGain:Low	Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	02:51:23 PM Oct 16, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
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tart 2.400 Res BW 1		#VB	W 300 kHz		Stop 2.48350 GHz .000 ms (1001 pts)	CF Ste 8.350000 M⊢
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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW

RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold

3. Measure the dwell time using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

Type of Modulation:

Condition	Mode	Frequency	Antenna	Pulse Time	Total Dwell	Burst	Period Time	Limit	Verdict
		(MHz)		(ms)	Time (ms)	Count	(ms)	(ms)	
		2402		2.872	287.2	100	31600	400	Pass
	1-DH5	2441		2.872	310.176	108	31600	400	Pass
		2480		2.872	287.2	100	31600	400	Pass
		2402		2.875	310.5	108	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.535	266.175	105	31600	400	Pass
		2480		2.879	313.811	109	31600	400	Pass
		2402		2.88	305.28	106	31600	400	Pass
	3-DH5	2441		2.88	342.72	119	31600	400	Pass
		2480	1	2.883	302.715	105	31600	400	Pass

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

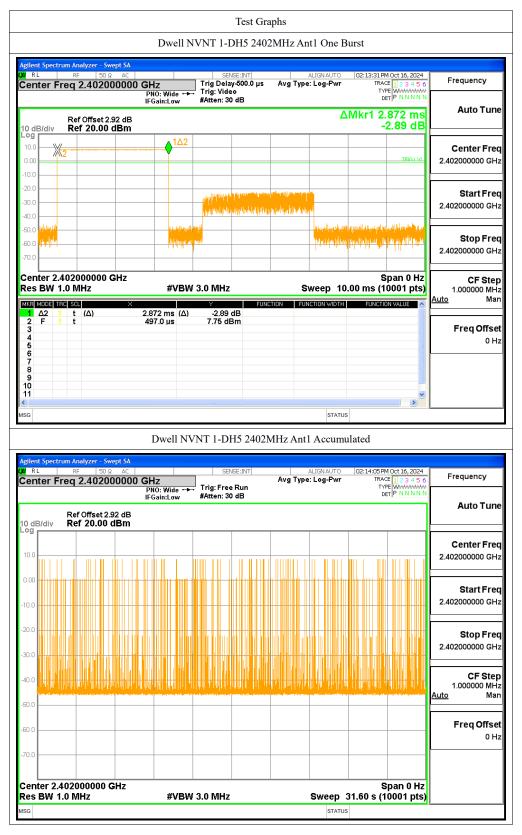
A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

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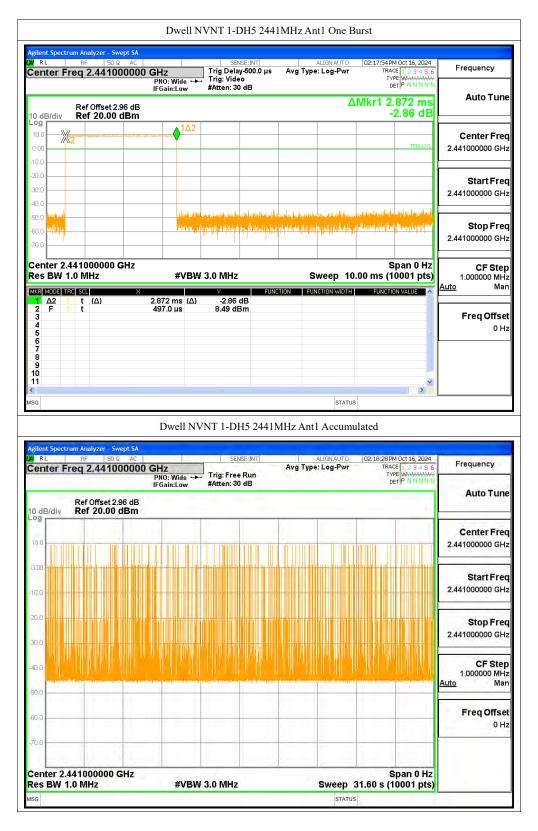




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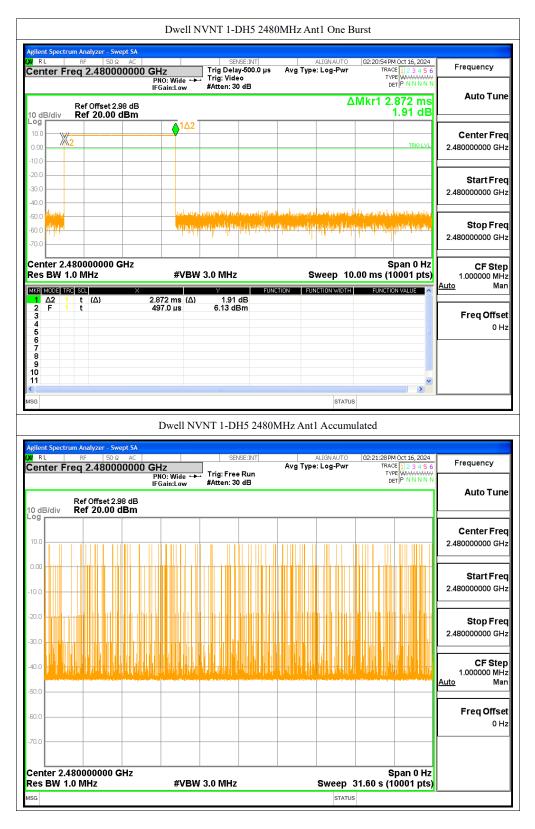




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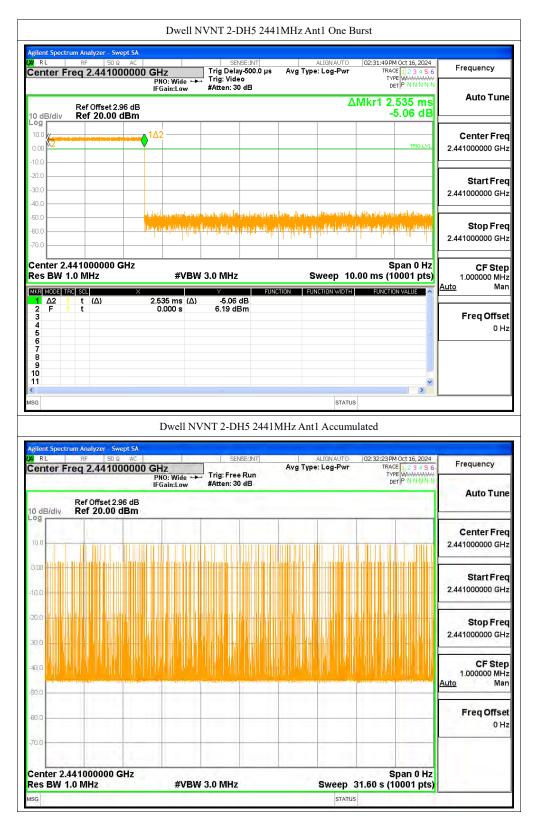




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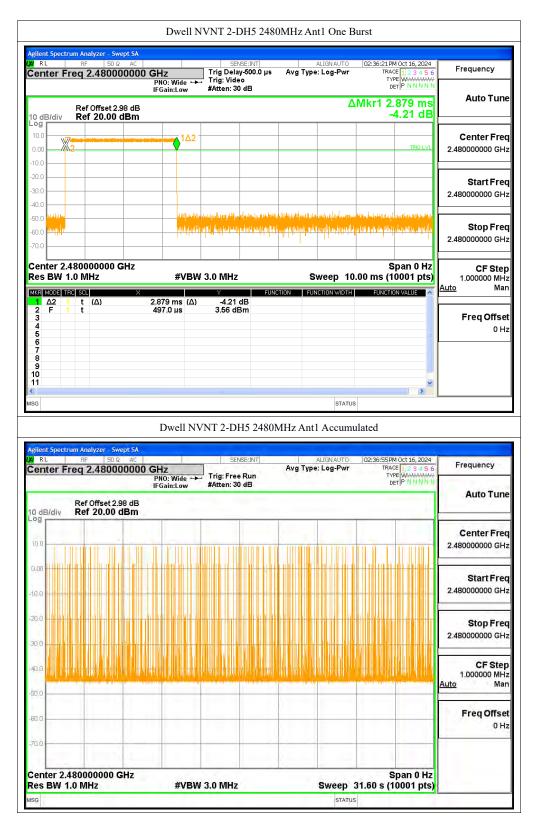




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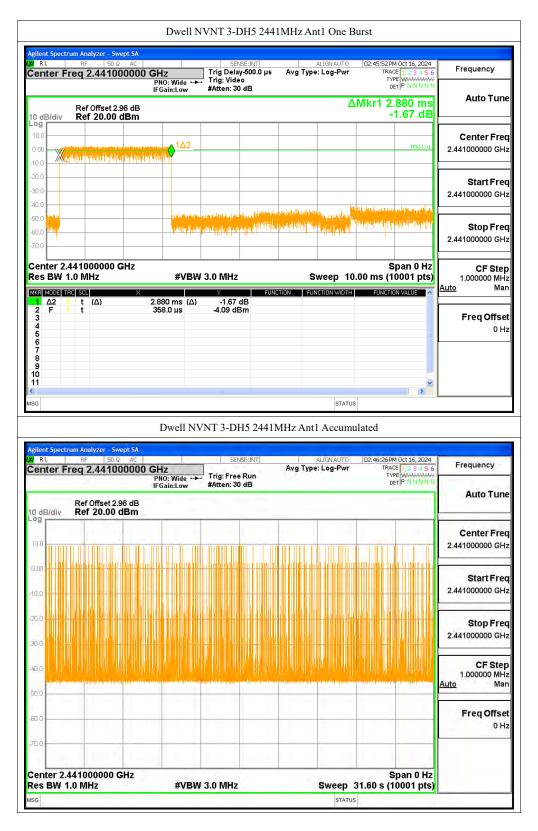




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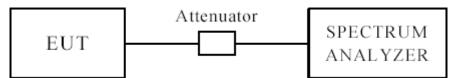
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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. Peak values with RBW=VBW=1MHz and PK detector.

For bandage test, the spectrum set as follows: RBW=100kHz, VBW=300 kHz. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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Type of Modulation:

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
	1-DH5	2402		No-Hopping	-43.63	-20	Pass
	1-005	2480		No-Hopping	-53.47	-20	Pass
		2402	A nt1	No-Hopping	-43.12	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.89	-20	Pass
		2402		No-Hopping	-38.13	-20	Pass
	3-DH5	2480		No-Hopping	-55.16	-20	Pass

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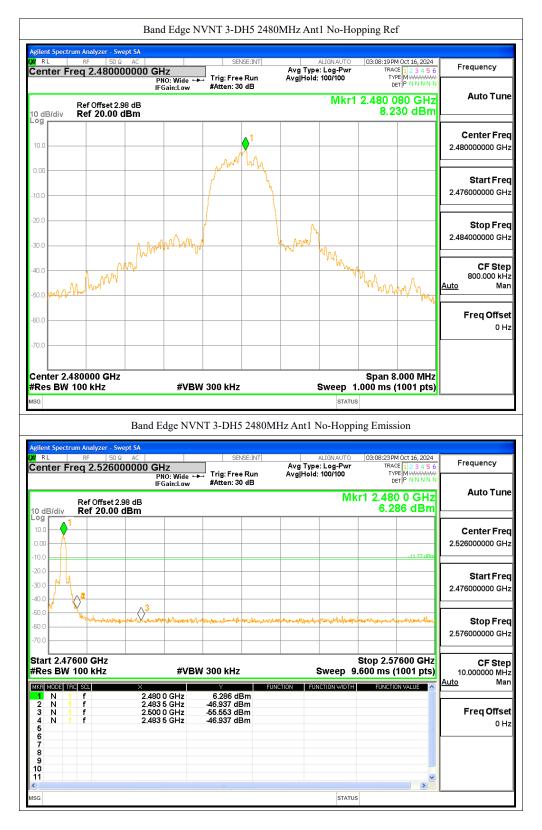




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Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
	1-DH5	2402		Hopping	-45.73	-20	Pass
		2480		Hopping	-53.32	-20	Pass
NVNT	2-DH5	2402	A nt1	Hopping	-46.14	-20	Pass
INVINI	2-005	2480	Ant1	Hopping	-57.9	-20	Pass
		2402		Hopping	-39.15	-20	Pass
	3-DH5	2480		Hopping	-55.39	-20	Pass

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gilent Spec	r <mark>trum Analyzer - S</mark> RF 50	wept SA Ω AC		SENS	EINT	1	ALIGN AUTO	02/26/202	M Oct 16, 2024	1
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G		Band Edge(2-DH5 24		STATUS	.000 ms	(1001 pts)	
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g <mark>ilent Spec</mark> RL eenter I	trum Analyzer - S	Band Edge(wept SA Ω AC 000000 GHz PN0 IFGa 2.92 dB	Hoppin Z S: Wide ↔	g) NVNT 2 SENS	e:INT Run	402MHz Avg Type	STATUS 2 Ant1 Ho ALIGNAUTO 2 Log-Pwr 2000/2000	000 ms	(1001 pts) nission ^{MOCt 16, 2024} ^{CE} 1 2 3 4 5 6 PE M W N N N PF P N N N N N	Frequency Auto Tur
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Silent Spec RL enter I 0 dB/div 9 10.0 0 dB/div 9 10.0 0 dB/div 9 10.0 9 10.0 9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 11.0 12.0 12.0 13.0 14.0 15.0 16.0 17.0	International state State Ref 50 Freq 2.3561 Ref 0ffset: Ref 20.00 Autor 2000000000000000000000000000000000000	Band Edge(wept SA Q AC PHO FGa 2.92 dB 0 dBm C A C A C A C A C A C A C A C A	Hoppin z y:Wide ↔ in:Low #VBM GHz GHz GHz GHz GHz	g) NVNT 2	E:INT Run dB	402MHz Avg Type AvgjHold:	ALIGNAUTO ALIGNAUTO 2000/2000 Mk	000 ms (pping Er 02:27:35P rra TRA TRA TRA TRA TRA TRA TRA TRA TRA TRA	(1001 pts)	Auto Tun Center Fre 2.356000000 GF 2.306000000 GF 2.406000000 GF 2.406000000 GF CF Ste 10.000000 MF Auto Ma
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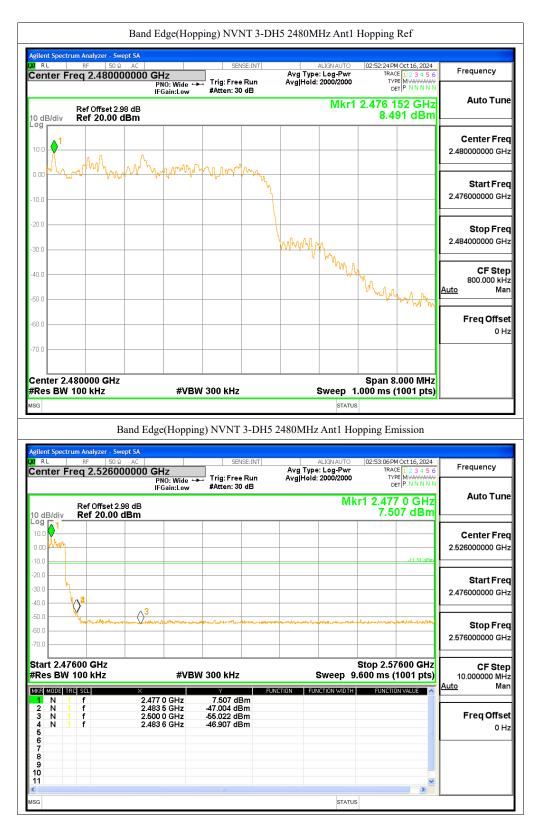
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Ref Offset 2.92 dB Ref 20.00 dBm	PRO: Wide → IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 2000/2000 Mkr1	1744E	Auto Tune Center Free	
Ref 20.00 dBm		- Marine Ma Marine Marine Mari	Mkr1		Center Free	
		- And Make	Mary Mary Mary	1 Arroformar Vinner	Center Fred 2.402000000 GH:	
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Mary Marine	how water water	2.402000000 GH:	
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		+ +		- · · · · · · · · · · · · · · · · · · ·	Start Fred 2.398000000 GH:	
	A ARY MY	4			<b>Stop Fred</b> 2.406000000 GH;	
, When	<i>nw</i>				CF Step	
M WWW					800.000 kH <u>Auto</u> Mar	
					Freq Offset 0 Hz	
2000 GHz 10 kHz	#VBV	V 300 kHz	Sweep 1			
STATUS						
		SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	02:43:54 PM Oct 16, 2024 TRACE 1 2 3 4 5 6	- Frequency	
		#Atten: 30 dB		DET P NNNN	Auto Tune	
Ref Offset 2.92 dB Ref 20.00 dBm				8.488 dBm		
					Center Fred	
	_			12,32 dBm	2.356000000 GH;	
					Start Free	
				Y	2.306000000 GH:	
In marked to marked and stores of	monengulado	warkertystyresenseres latter	al the fail of the state of the	monorman	Stop Fred	
					2.406000000 GHz	
				Stop 2.40600 GHz	CF Step	
00 GHz 00 kHz	#VBV	V 300 kHz	•	.600 ms (1001 pts)	10.000000 MH	
00 kHz	4 1 GHz	Y FU 8.488 dBm	Sweep 9.	· · · /	10.000000 MH; <u>Auto</u> Mar	
00 kHz f 2.40 f 2.40 f 2.40		Y FL	•	· · · /		
00 kHz f 2.40 f 2.40 f 2.40	4 1 GHz 0 0 GHz 0 0 GHz	Y FU 8.488 dBm -31.477 dBm -31.477 dBm	•	· · · /	Auto Mar Freq Offse	
	20000 GHz 2000 GHz 10 kHz Band Edg Analyzer - Swept SA RF   50 Q AC   q 2.356000000 G	Band Edge(Hoppin Analyzer - Swept SA RF 50Ω AC Q 2.356000000 GHz PNO: Wide ↔ IFGain:Low Ref Offset 2.92 dB	2000 GHz 2000 GHz 10 kHz #VBW 300 kHz Band Edge(Hopping) NVNT 3-DH5 Analyzer - Swept SA RF 50 Q AC SENSE:INT Q 2.356000000 GHz PH0: Wide ↔ Trig: Free Run IFGain:Low #Atten: 30 dB Ref Offset 2.92 dB	2000 GHz 10 kHz #VBW 300 kHz Sweep 1 200 kHz #VBW 300 kHz Sweep 1 status Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Ho Analyzer - Swept SA RF 50 @ AC SENSE:INT ALIONAUTO Q 2.356000000 GHz PN0: Wide → Trig: Free Run IFGain:Low Atten: 30 dB Avg Type: Log-Pwr Avg Type: Log-Pwr	2000 GHz 10 kHz #VBW 300 kHz Span 8.000 MHz 10 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) status Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission Analyzer - Swept SA RF 50 Q AC SENSE:INT ALIGNAUTO 102:43:54PM Oct 16, 2024 PHO: Wide → Trig: Free Run PHO: Wide → Trig: Free Run PHO: Wide → Trig: Free Run #Atten: 30 dB Mkr1 2.404 1 GHz Ref 20.00 dBm 8.488 dBm	

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### 12.5 Restricted band Measurement

EUT	EVPAD Player			Model	EVPAD-11P				
Mode	Keeping Transmitting			Test Voltage	120V~				
Temperature	24 deg. C,			Humidity	56% RH				
Test Result:		Pass		Detector	PK				
	GFSK, Low Channel, Horizontal								
2390	PK (dBµV/m)	40.12		Limit	74(dBµV/m)				
	AV ( $dB\mu V/m$ )			Limit	54(dBµV/m)				
	GFSK, Low Channel Vertical								
2390	PK (dBµV/m)	39.96		T :	74(dBµV/m)				
	AV ( $dB\mu V/m$ )			Limit	54(dBµV/m)				

### Restricted band Measurement 12.5

EUT	EVPAD Player			Model		EVPAD-11P	
Mode	Keeping Transmitting			Test Voltage		120V~	
Temperature	24 deg. C,			Humidity		56% RH	
Test Result:	Pass			De	etector	РК	
GFSK, High Channel, Horizontal							
2483.5	PK (dBµV/m)	49.38	T · · ·	•,	74(dBµV/m)		
	AV ( $dB\mu V/m$ )		Limit		54(dBµV/m)		
GFSK, High Channel, Vertical							
2483.5	PK ( $dB\mu V/m$ )	45.05	Limit		74(dBµV/m)		
	AV ( $dB\mu V/m$ )					54(dBµV/m)	

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### 12.5 Restricted band Measurement

EUT	EVPAD Player			Model		EVPAD-11P	
Mode	Keeping Transmitting			Test Voltage		120V~	
Temperature	24 deg. C,			Humidity		56% RH	
Test Result:	Pass			Detector		РК	
Л/4DQPSK, Low Channel, Horizontal							
2390	PK (dBµV/m)	40.33	T:	:+	74(dBµV/m)		
	AV ( $dB\mu V/m$ )		Limit		54(dBµV/m)		
Л/4DQPSK, Low Channel Vertical							
2390	PK (dBµV/m)	39.21	Limit		74(dBµV/m)		
	AV ( $dB\mu V/m$ )			mı		54(dBµV/m)	

### Restricted band Measurement 12.5

EUT	EVPAD Player			Model		EVPAD-11P	
Mode	Keeping Transmitting			Test Voltage		120V~	
Temperature	24 deg. C,			Humidity		56% RH	
Test Result:	Pass			De	etector	РК	
Л/4DQPSK, High Channel, Horizontal							
2483.5	PK (dBµV/m)	48.68	T	•,	74(dBµV/m)		
	AV ( $dB\mu V/m$ )		Limit		54(dBµV/m)		
Л/4DQPSK, High Channel, Vertical							
2483.5	PK (dBµV/m)	44.67	Limit		74(dBµV/m)		
	AV ( $dB\mu V/m$ )		Lim	It		54(dBµV/m)	

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#### 12.5 Restricted band Measurement

EUT	EVPAD Player			Model		EVPAD-11P		
Mode	Keeping Transmitting			Test Voltage		120V~		
Temperature	24 deg. C,			Humidity		56% RH		
Test Result:	Pass			Detector		РК		
8DPSK, Low Channel, Horizontal								
2390	PK (dBµV/m)	40.41	T:	:+	74(dBµV/m)			
	AV ( $dB\mu V/m$ )		Limit		54(dBµV/m)			
Л/4DQPSK, Low Channel Vertical								
2390	PK (dBµV/m)	39.93	Limit		74(dBµV/m)			
	AV ( $dB\mu V/m$ )					54(dBµV/m)		

### Restricted band Measurement 12.5

EUT	EVPAD Player			Model		EVPAD-11P	
Mode	Ke	Keeping Transmitting			Voltage	120V~	
Temperature	24 deg. C,			Humidity		56% RH	
Test Result:		Pass			etector	РК	
8DPSK, High Channel, Horizontal							
2483.5	PK (dBµV/m)	47.36	т.	• ,		$74(dB\mu V/m)$	
	AV ( $dB\mu V/m$ )		Limit		54(dBµV/m)		
Л/4DQPSK, High Channel, Vertical							
2483.5	PK (dBµV/m)	44.70	Limit		74(dBµV/m)		
	AV ( $dB\mu V/m$ )				54(dBµV/m)		

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## 13.0 Antenna Requirement

### 13.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

## 13.2 Antenna Connected constructions

FPC antenna used. The gain of the antennas is 2.45dBi (Get from the antenna specification provided the manufacturer)

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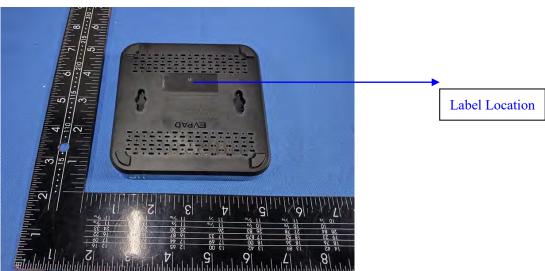
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## 14.0 FCC ID Label

## **FCC ID: 2A4G810P10P**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

## **Mark Location:**



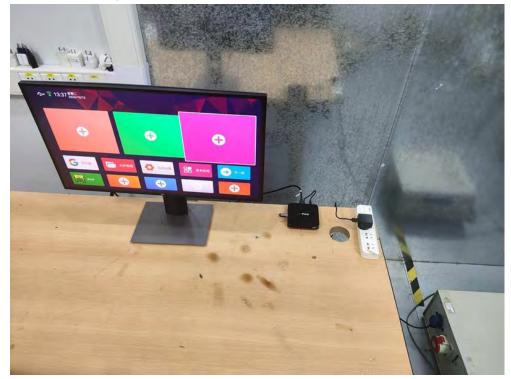
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### 15.0 Photo of testing

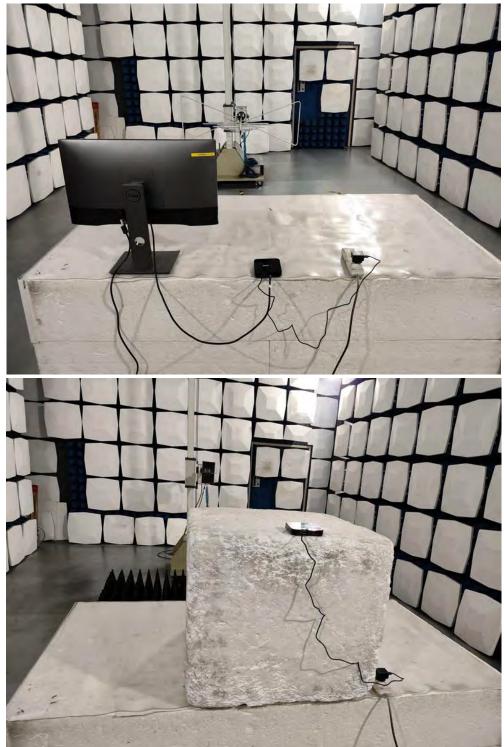
Conducted Emission Test Setup:



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Radiated Emission Test Setup:



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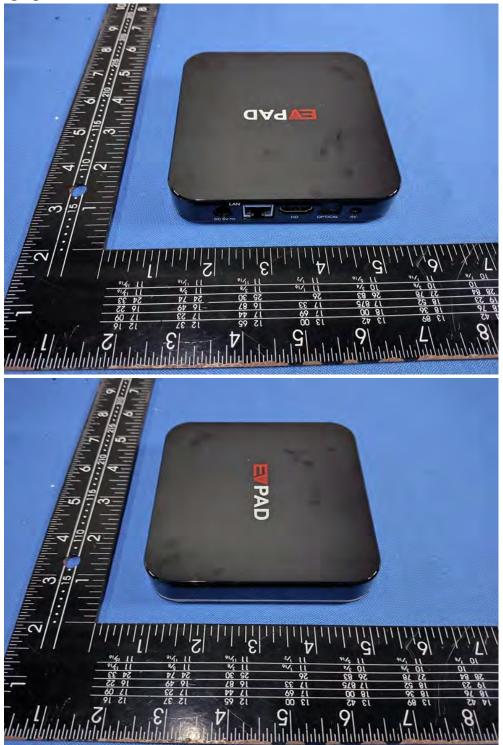
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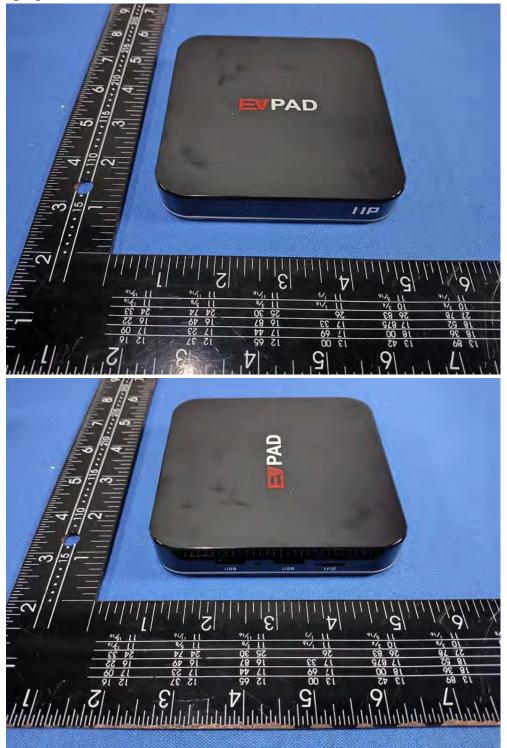
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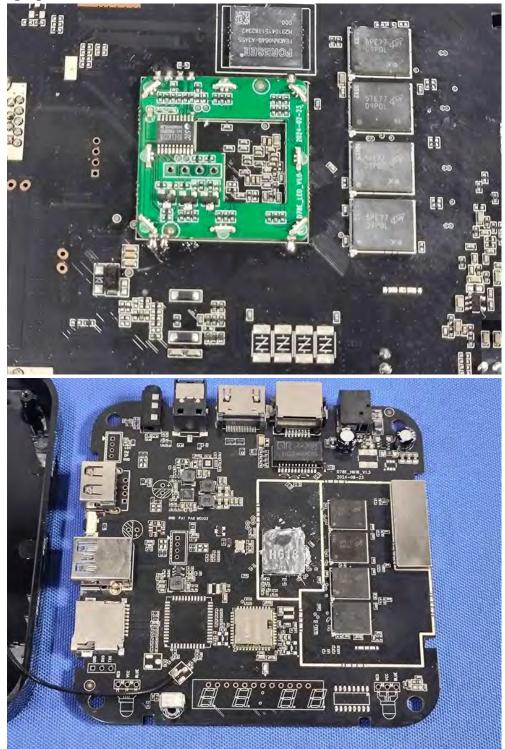


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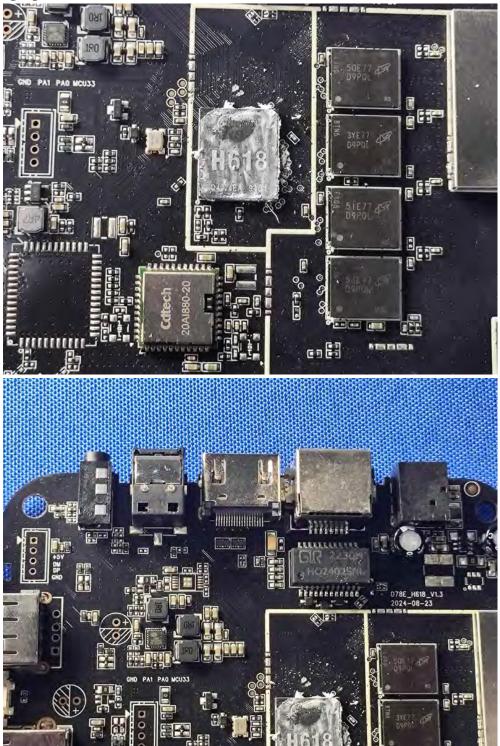
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