



TEST Report

Applicant: Guangdong Xintengda Communication Technology Co., Ltd

Address of Applicant: Suwu Group Leader Wu Dan, Shiwan Town, Boluo County, Huizhou City, Guangdong Province

Manufacturer : Guangdong Xintengda Communication Technology Co., Ltd

Address of Manufacturer : Suwu Group Leader Wu Dan, Shiwan Town, Boluo County, Huizhou City, Guangdong Province

Equipment Under Test (EUT)

Product Name: Repeaters

Model No.: GT300

Series model: KP300, KP300M, KP300T, KP300W, KP450, KP500, KP1600, KP1800, KP3000

Trade Mark: ARZOPA

FCC ID: 2BEH8-GT300

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: Nov. 27, 2023

Date of Test: Nov. 27, 2023~Dec. 06, 2023

Date of report issued: Dec. 06, 2023

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.



Report No.: HTT202311681F01

1. Version

Version No.	Date	Description
00	Dec. 06, 2023	Original

Tested/ Prepared By Heber He Date: Dec. 06, 2023
Project Engineer

Check By: Bruce Zhu Date: Dec. 06, 2023
Reviewer

Approved By : Kevin Yang Date: Dec. 06, 2023
Authorized Signature



2. Contents

Page

1. VERSION	2
2. CONTENTS	3
3. TEST SUMMARY	4
4. GENERAL INFORMATION	5
4.1. GENERAL DESCRIPTION OF EUT	5
4.2. TEST MODE	7
4.3. DESCRIPTION OF SUPPORT UNITS	7
4.4. DEVIATION FROM STANDARDS	7
4.5. ABNORMALITIES FROM STANDARD CONDITIONS	7
4.6. TEST FACILITY	7
4.7. TEST LOCATION	7
4.8. ADDITIONAL INSTRUCTIONS	7
5. TEST INSTRUMENTS LIST	8
6. TEST RESULTS AND MEASUREMENT DATA	9
6.1. CONDUCTED EMISSIONS	9
6.2. CONDUCTED PEAK OUTPUT POWER	12
6.3. CHANNEL BANDWIDTH	13
6.4. POWER SPECTRAL DENSITY	18
6.5. BAND EDGE	23
6.5.1. Conducted Emission Method	23
6.5.2. Radiated Emission Method	28
6.6. SPURIOUS EMISSION	30
6.6.1. Conducted Emission Method	30
6.6.2. Radiated Emission Method	38
6.7. ANTENNA REQUIREMENT	45
7. TEST SETUP PHOTO	46
8. EUT CONSTRUCTIONAL DETAILS	46



3. Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	Pass
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass
6dB Bandwidth	FCC part 15.247 (a)(2)	Pass
Power Spectral Density	FCC part 15.247 (e)	Pass
Band Edge	FCC part 15.247(d)	Pass
Spurious Emission	FCC part 15.205/15.209	Pass

Remark: Test according to ANSI C63.10:2013 and RSS-Gen

Pass: The EUT complies with the essential requirements in the standard.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	3.45 dB	(1)
Radiated Emission	1~6GHz	3.54 dB	(1)
Radiated Emission	6~40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.66 dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.



4. General Information

4.1. General Description of EUT

Product Name:	Repeaters
Model No.:	GT300
Series model:	KP300, KP300M, KP300T, KP300W, KP450, KP500, KP1600, KP1800, KP3000
Test sample(s) ID:	HTT202311681-1(Engineer sample) HTT202311681-2(Normal sample)
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Rubber rod antenna
Antenna gain:	2.14 dBi for Ant 1 and Ant 2(Not support MIMO)
Power supply:	AC 100-240V



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

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

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz



4.2. Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

4.3. Description of Support Units

None.

4.4. Deviation from Standards

None.

4.5. Abnormalities from Standard Conditions

None.

4.6. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 779513 Designation Number: CN1319

Shenzhen HTT Technology Co.,Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6435.01

Shenzhen HTT Technology Co.,Ltd. has been accredited by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

4.7. Test Location

All tests were performed at:

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

Tel: 0755-23595200

Fax: 0755-23595201

4.8. Additional Instructions

Test Software	Special AT test command provided by manufacturer to Keep the EUT in continuously transmitting mode and hopping mode
Power level setup	Default



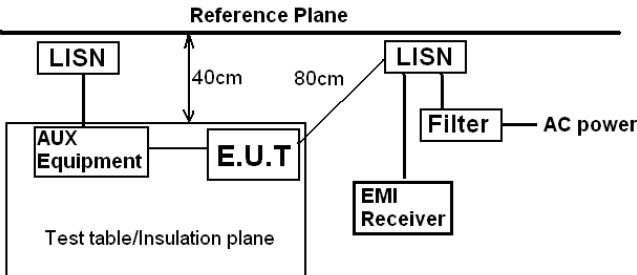
Report No.: HTT202311681F01

5. Test Instruments list

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	Shenzhen C.R.T technology co., LTD	9*6*6	HTT-E028	Aug. 10 2021	Aug. 09 2024
2	Control Room	Shenzhen C.R.T technology co., LTD	4.8*3.5*3.0	HTT-E030	Aug. 10 2021	Aug. 09 2024
3	EMI Test Receiver	Rohde&Schwar	ESCI7	HTT-E022	Apr. 26 2023	Apr. 25 2024
4	Spectrum Analyzer	Rohde&Schwar	FSP	HTT-E037	Apr. 26 2023	Apr. 25 2024
5	Coaxial Cable	ZDecl	ZT26-NJ-NJ-0.6M	HTT-E018	Apr. 26 2023	Apr. 25 2024
6	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-2M	HTT-E019	Apr. 26 2023	Apr. 25 2024
7	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-0.6M	HTT-E020	Apr. 26 2023	Apr. 25 2024
8	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-8.5M	HTT-E021	Apr. 26 2023	Apr. 25 2024
9	Composite logarithmic antenna	Schwarzbeck	VULB 9168	HTT-E017	May. 21 2023	May. 20 2024
10	Horn Antenna	Schwarzbeck	BBHA9120D	HTT-E016	May. 20 2023	May. 19 2024
11	Loop Antenna	Zhinan	ZN30900C	HTT-E039	Apr. 26 2023	Apr. 25 2024
12	Horn Antenna	Beijing Hangwei Dayang	OBH100400	HTT-E040	Apr. 26 2023	Apr. 25 2024
13	low frequency Amplifier	Sonoma Instrument	310	HTT-E015	Apr. 26 2023	Apr. 25 2024
14	high-frequency Amplifier	HP	8449B	HTT-E014	Apr. 26 2023	Apr. 25 2024
15	Variable frequency power supply	Shenzhen Anbiao Instrument Co., Ltd	ANB-10VA	HTT-082	Apr. 26 2023	Apr. 25 2024
16	EMI Test Receiver	Rohde & Schwarz	ESCS30	HTT-E004	Apr. 26 2023	Apr. 25 2024
17	Artificial Mains	Rohde & Schwarz	ESH3-Z5	HTT-E006	May. 23 2023	May. 22 2024
18	Artificial Mains	Rohde & Schwarz	ENV-216	HTT-E038	May. 23 2023	May. 22 2024
19	Cable Line	Robinson	Z302S-NJ-BNCJ-1.5M	HTT-E001	Apr. 26 2023	Apr. 25 2024
20	Attenuator	Robinson	6810.17A	HTT-E007	Apr. 26 2023	Apr. 25 2024
21	Variable frequency power supply	Shenzhen Yanghong Electric Co., Ltd	YF-650 (5KVA)	HTT-E032	Apr. 26 2023	Apr. 25 2024
22	Control Room	Shenzhen C.R.T technology co., LTD	8*4*3.5	HTT-E029	Aug. 10 2021	Aug. 09 2024
23	DC power supply	Agilent	E3632A	HTT-E023	Apr. 26 2023	Apr. 25 2024
24	EMI Test Receiver	Agilent	N9020A	HTT-E024	Apr. 26 2023	Apr. 25 2024
25	Analog signal generator	Agilent	N5181A	HTT-E025	Apr. 26 2023	Apr. 25 2024
26	Vector signal generator	Agilent	N5182A	HTT-E026	Apr. 26 2023	Apr. 25 2024
27	Power sensor	Keysight	U2021XA	HTT-E027	Apr. 26 2023	Apr. 25 2024
28	Temperature and humidity meter	Shenzhen Anbiao Instrument Co., Ltd	TH10R	HTT-074	Apr. 28 2023	Apr. 27 2024
29	Radiated Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A
30	Conducted Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A
31	RF Test Software	panshanrf	TST	N/A	N/A	N/A

6. Test results and Measurement Data

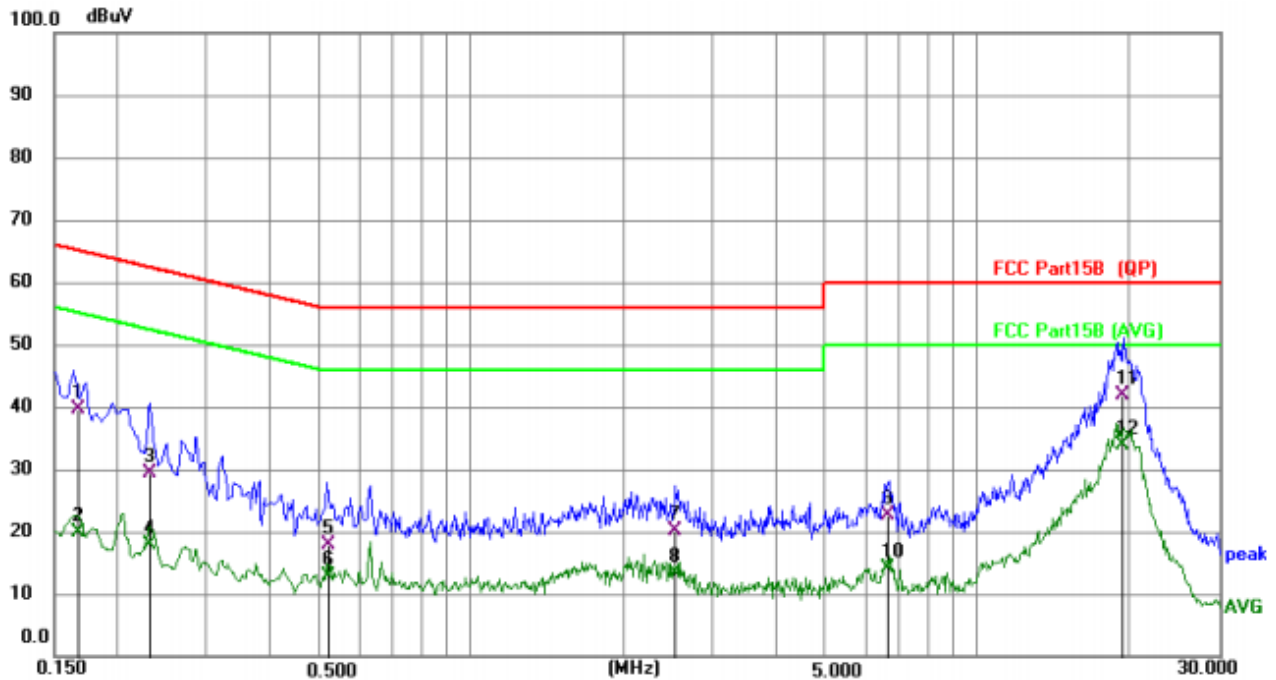
6.1. Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:	Frequency range (MHz)		Limit (dBuV)				
			Quasi-peak		Average		
	0.15-0.5		66 to 56*		56 to 46*		
	0.5-5		56		46		
	5-30		60		50		
* Decreases with the logarithm of the frequency.							
Test setup:	<div><p style="text-align: center;">Reference Plane</p><p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>						
Test procedure:	<div><div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</div><div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</div></div>						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
Test results:	PASS						

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

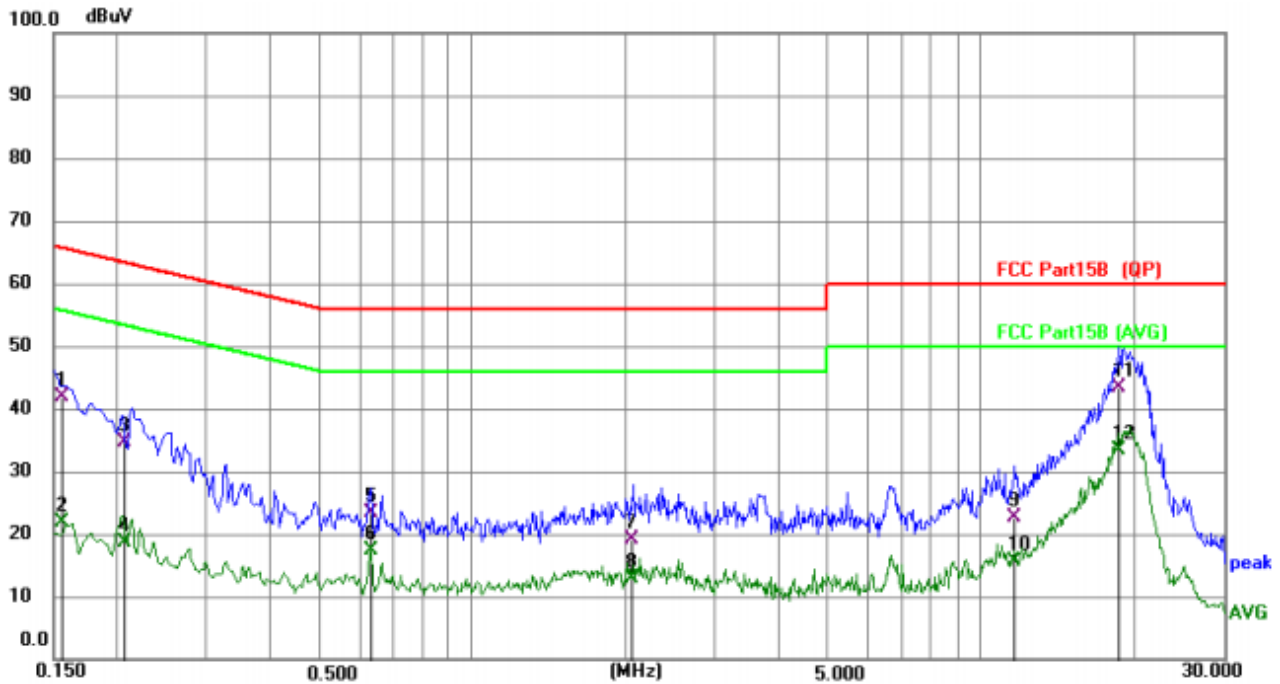
Measurement data:

Line:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
					dBuV	dBuV	dB	
1		0.1668	29.54	10.18	39.72	65.12	-25.40	QP
2		0.1668	9.79	10.18	19.97	55.12	-35.15	AVG
3		0.2316	19.08	10.22	29.30	62.39	-33.09	QP
4		0.2316	7.56	10.22	17.78	52.39	-34.61	AVG
5		0.5215	7.64	10.29	17.93	56.00	-38.07	QP
6		0.5215	2.67	10.29	12.96	46.00	-33.04	AVG
7		2.5297	9.76	10.46	20.22	56.00	-35.78	QP
8		2.5297	3.03	10.46	13.49	46.00	-32.51	AVG
9		6.6568	11.93	10.62	22.55	60.00	-37.45	QP
10		6.6568	3.48	10.62	14.10	50.00	-35.90	AVG
11		19.5042	30.59	11.26	41.85	60.00	-18.15	QP
12	*	19.5042	22.57	11.26	33.83	50.00	-16.17	AVG

Neutral:

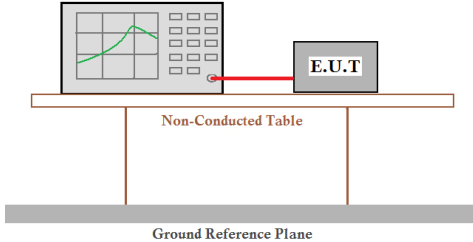


No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1558	31.69	10.16	41.85	65.68	-23.83	QP
2		0.1558	11.63	10.16	21.79	55.68	-33.89	AVG
3		0.2082	24.47	10.21	34.68	63.28	-28.60	QP
4		0.2082	8.33	10.21	18.54	53.28	-34.74	AVG
5		0.6316	13.11	10.35	23.46	56.00	-32.54	QP
6		0.6316	6.93	10.35	17.28	46.00	-28.72	AVG
7		2.0636	8.62	10.40	19.02	56.00	-36.98	QP
8		2.0636	2.50	10.40	12.90	46.00	-33.10	AVG
9		11.6878	11.74	10.98	22.72	60.00	-37.28	QP
10		11.6878	4.71	10.98	15.69	50.00	-34.31	AVG
11	*	18.6970	32.22	11.27	43.49	60.00	-16.51	QP
12		18.6970	22.06	11.27	33.33	50.00	-16.67	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Los

6.2. Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)					
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02					
Limit:	30dBm					
Test setup:	<p>Power sensor and Spectrum analyzer</p>  <p>Non-Conducted Table</p> <p>Ground Reference Plane</p>					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar

Measurement Data

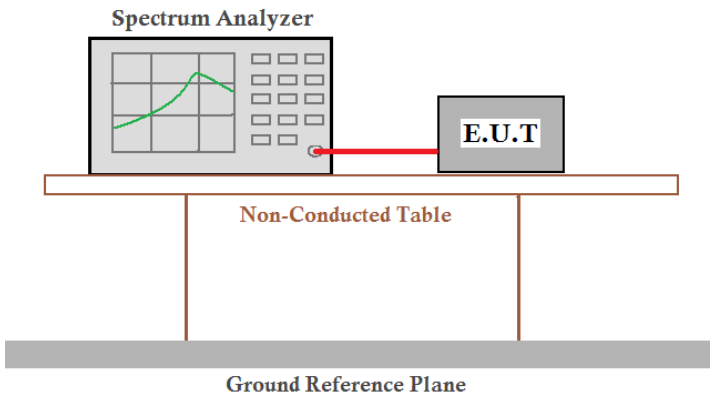
ANT 1

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	9.12	10.66	11.05	9.42	30.00	Pass
Middle	8.76	10.10	10.62	8.52		
Highest	7.54	8.89	9.10	7.74		

ANT 2

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	7.43	8.90	9.48	7.55	30.00	Pass
Middle	7.25	8.19	8.82	6.81		
Highest	6.01	7.08	7.42	5.91		

6.3. Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02					
Limit:	>500KHz					
Test setup:						
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar

Measurement Data

ANT 1

Test CH	Channel Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	11.579	17.291	18.290	35.085	>500	Pass
Middle	11.554	17.248	18.315	33.878		
Highest	11.588	17.212	18.250	35.148		

ANT 2

Test CH	Channel Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	11.094	17.084	18.335	35.101	>500	Pass
Middle	11.558	17.050	18.320	35.124		
Highest	11.093	17.049	18.310	35.161		

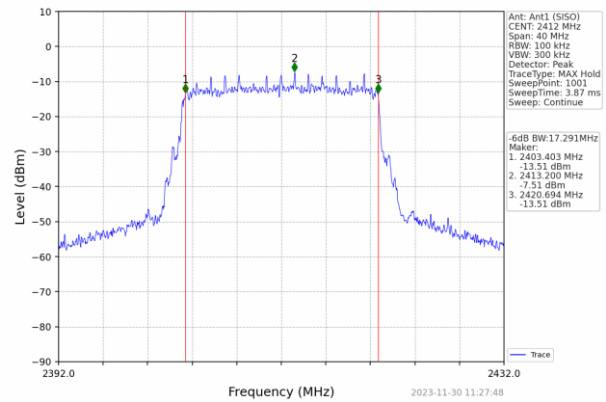
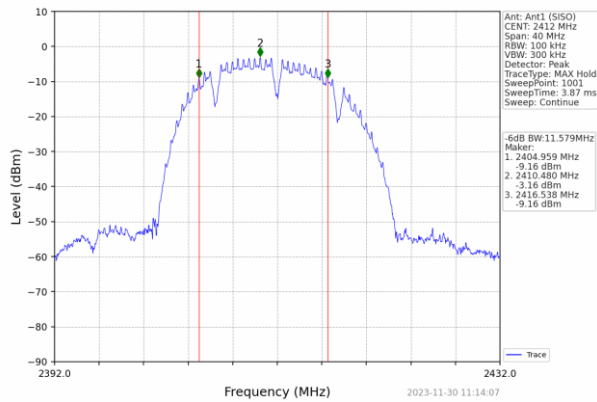


Report No.: HTT202311681F01

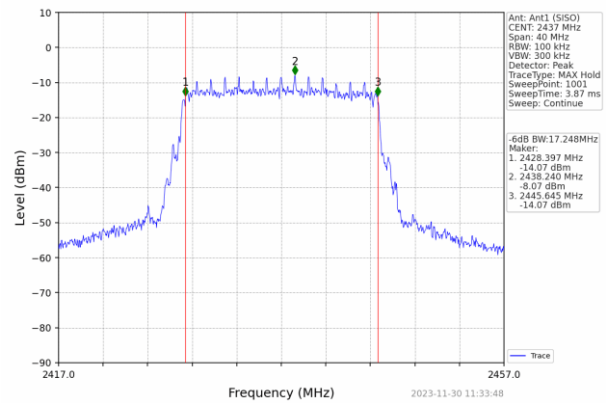
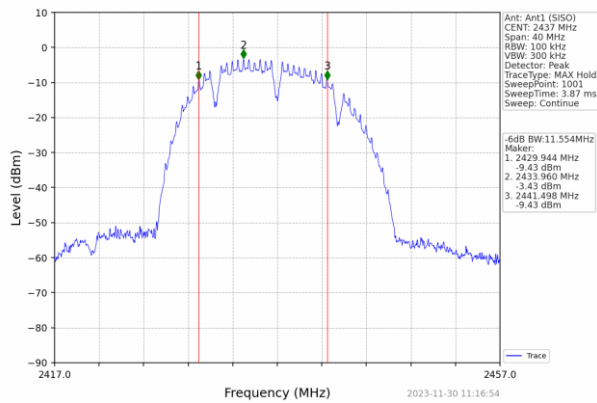
Test plot as follows:

ANT 1

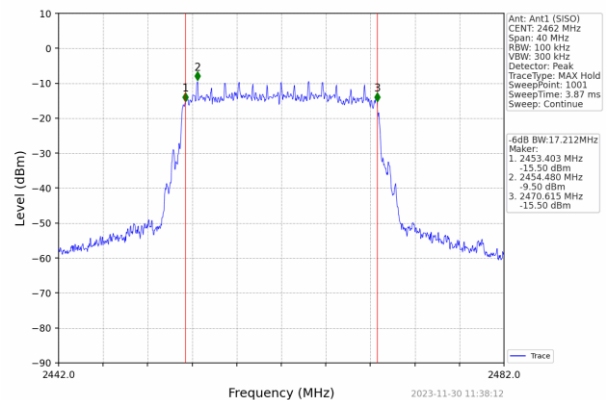
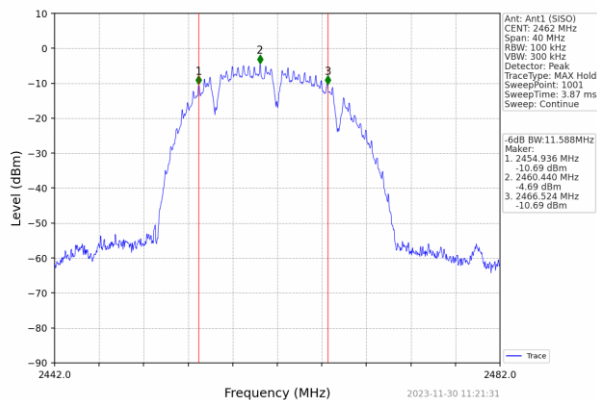
802.11b		802.11g	
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Lowest channel



Middle channel

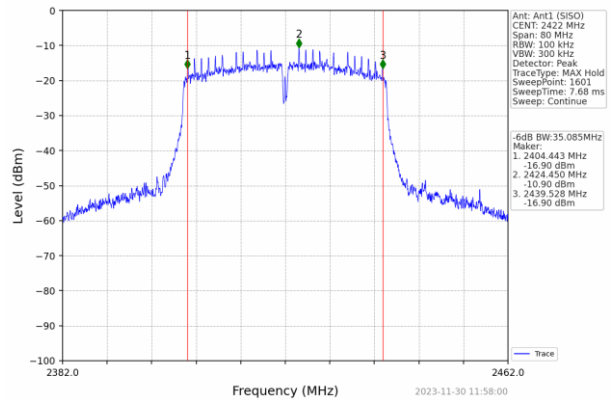
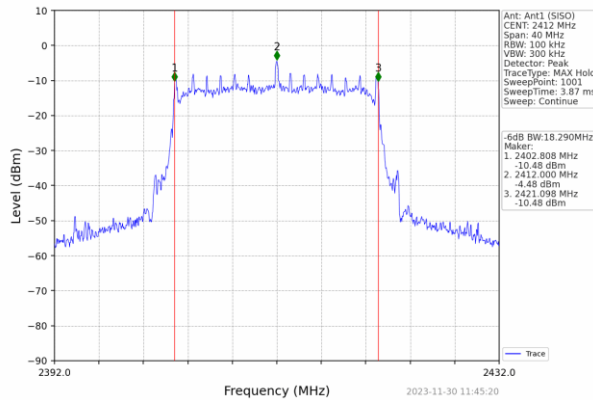


Highest channel

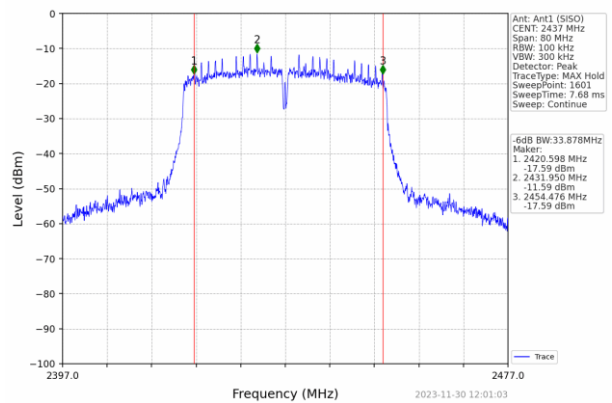
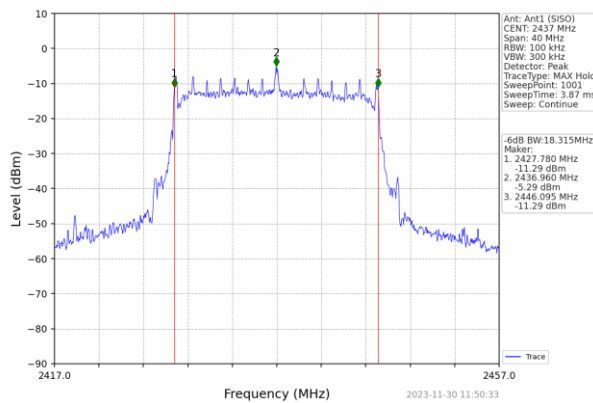


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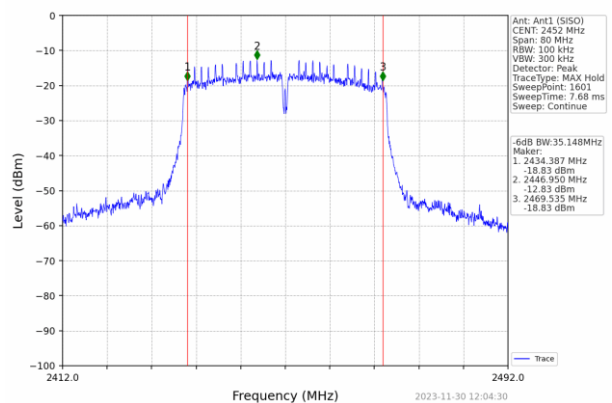
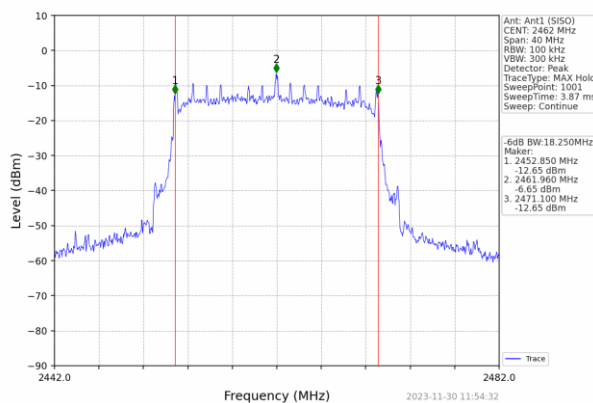
802.11n(HT20)	802.11n(HT40)
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Lowest channel



Middle channel



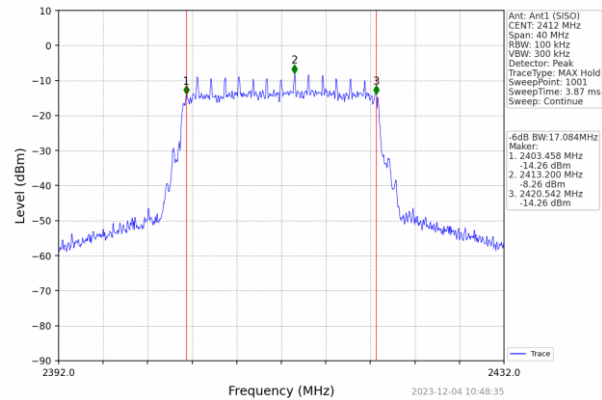
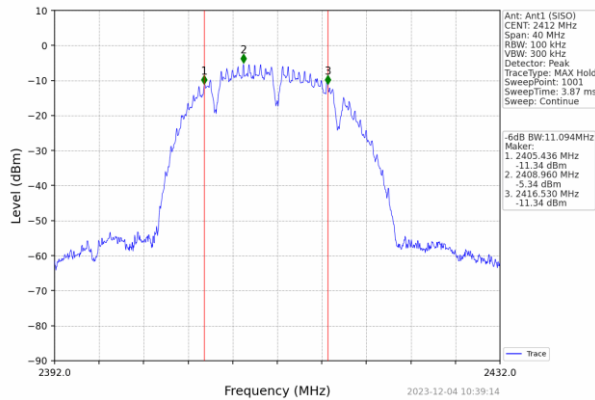
Highest channel



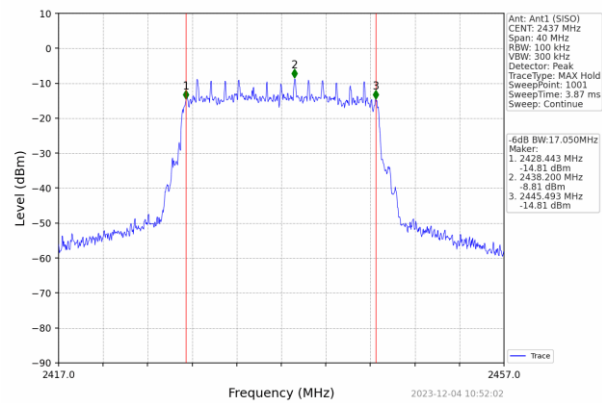
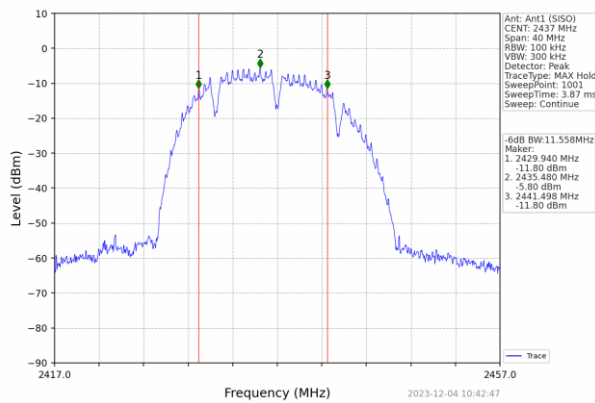
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ANT 2

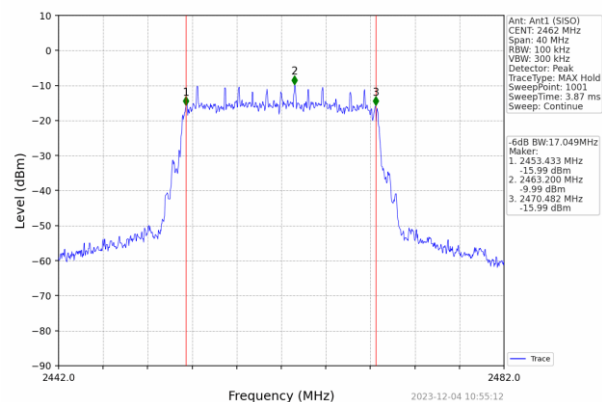
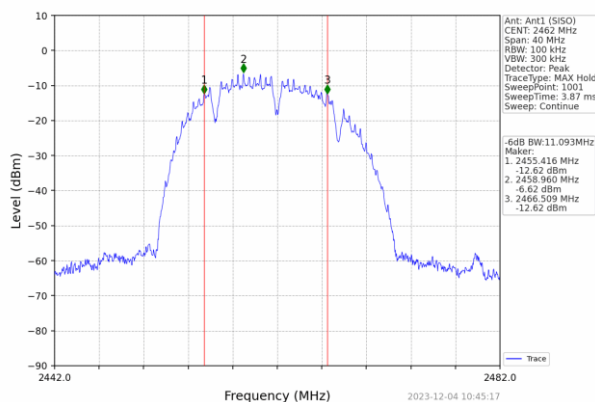
802.11b		802.11g	
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Lowest channel



Middle channel

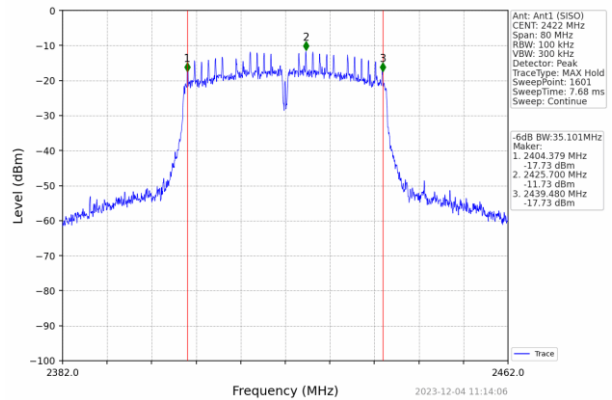
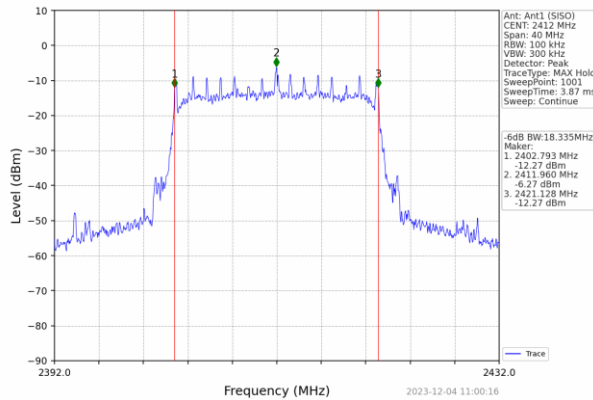


Highest channel

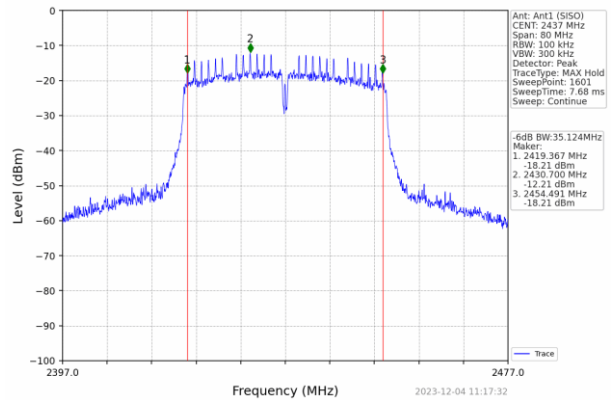
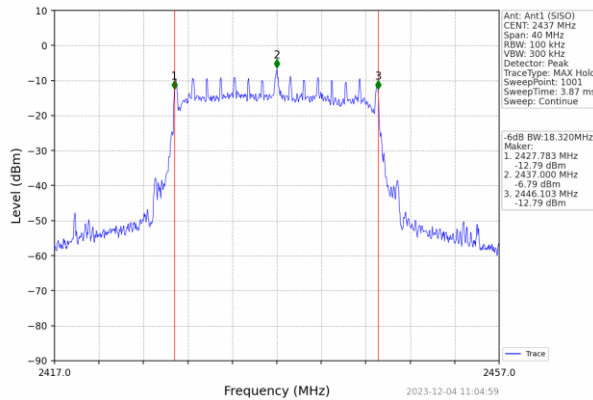


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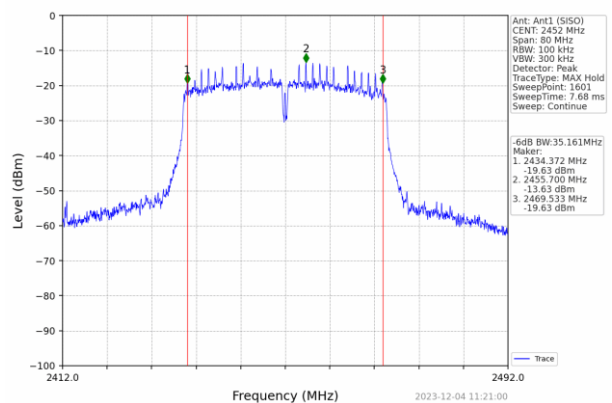
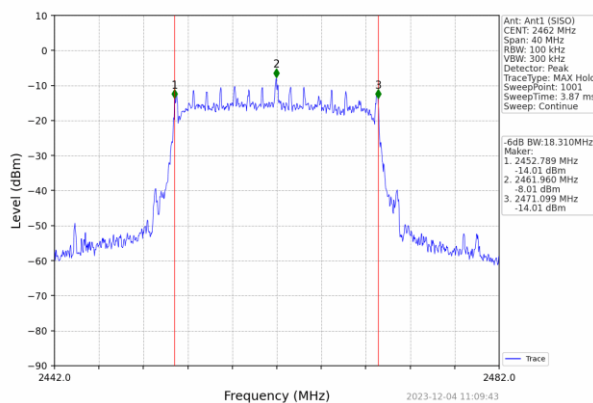
802.11n(HT20)	802.11n(HT40)
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Lowest channel

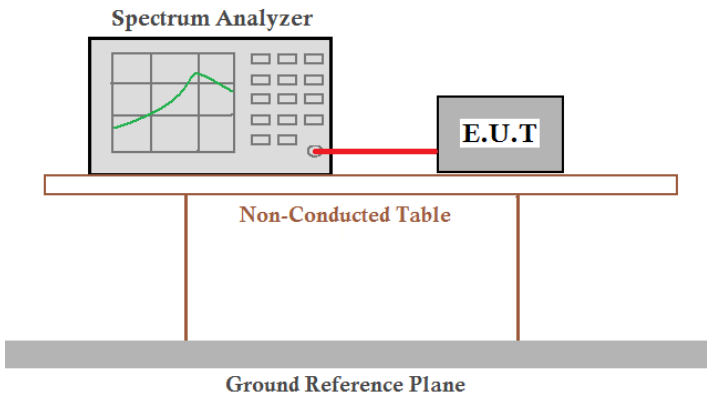


Middle channel



Highest channel

6.4. Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)					
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02					
Limit:	8dBm/3kHz					
Test setup:						
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar

Measurement Data

ANT 1

Test CH	Power Spectral Density (dBm/3kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-17.76	-21.45	-21.51	-25.93	8.00	Pass
Middle	-17.54	-22.76	-20.54	-23.55		
Highest	-18.69	-23.73	-20.94	-25.77		

ANT 2

Test CH	Power Spectral Density (dBm/3kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-19.91	-24.95	-21.77	-25.38	8.00	Pass
Middle	-19.83	-23.45	-21.97	-27.79		
Highest	-21.76	-24.10	-25.40	-26.09		

Remark: We have tested all mode at high, middle and low channel, and recorded worst case at middle

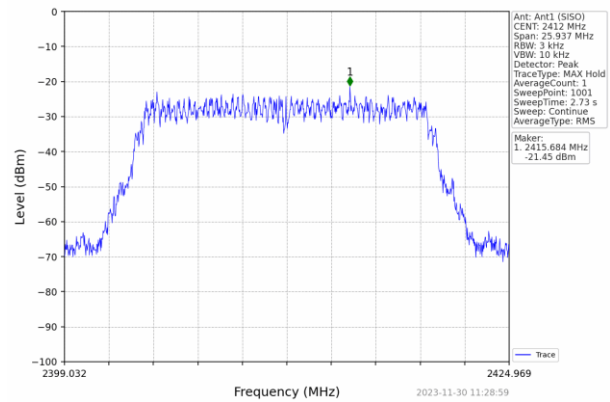
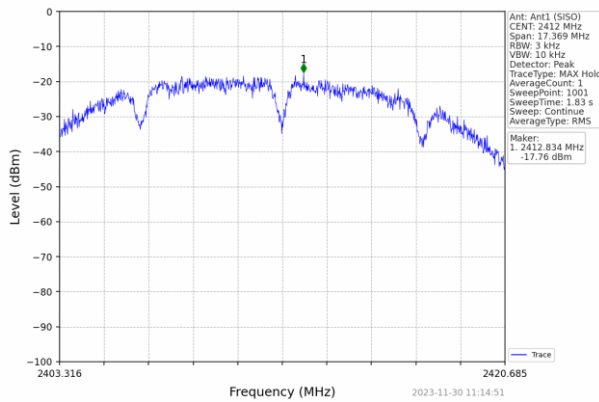


Report No.: HTT202311681F01

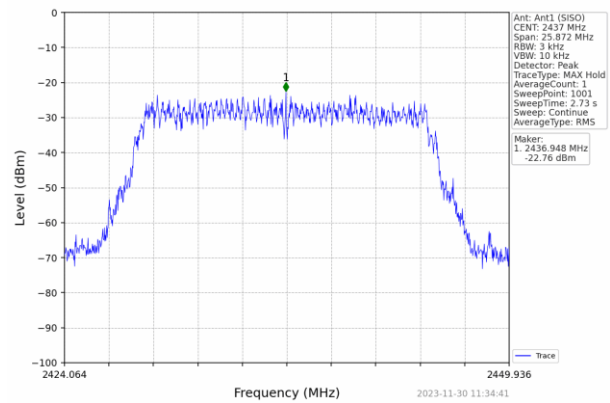
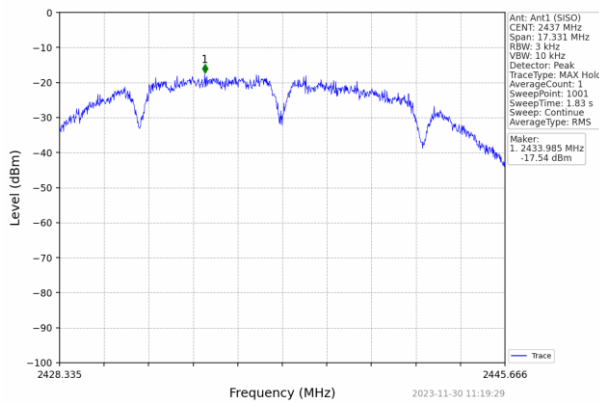
Test plot as follows:

ANT 1

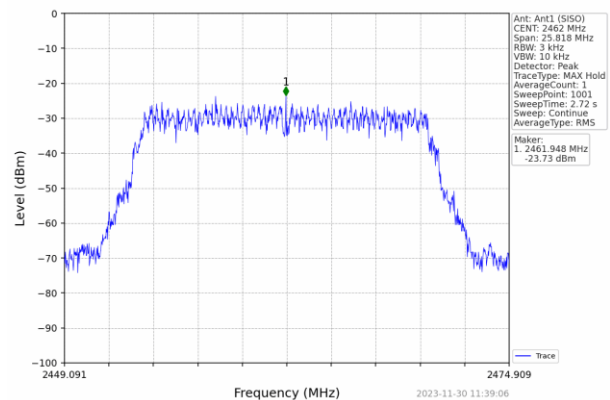
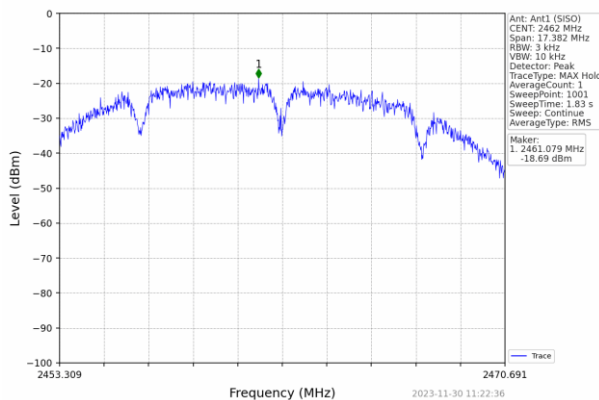
802.11b		802.11b	
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Lowest channel



Middle channel



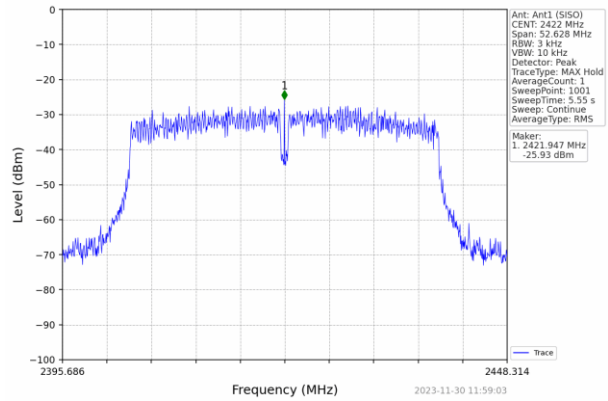
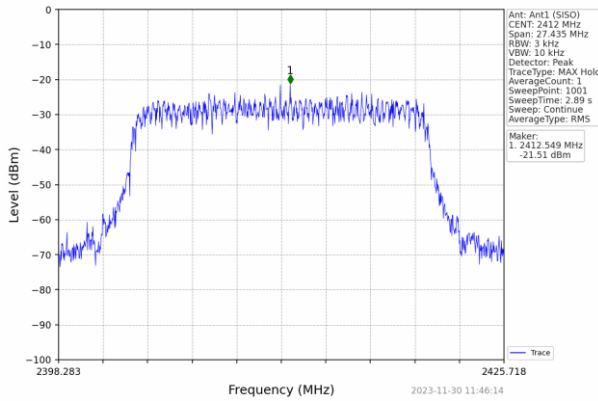
Highest channel



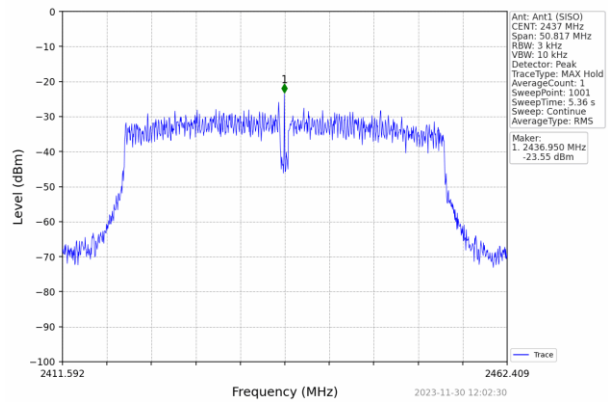
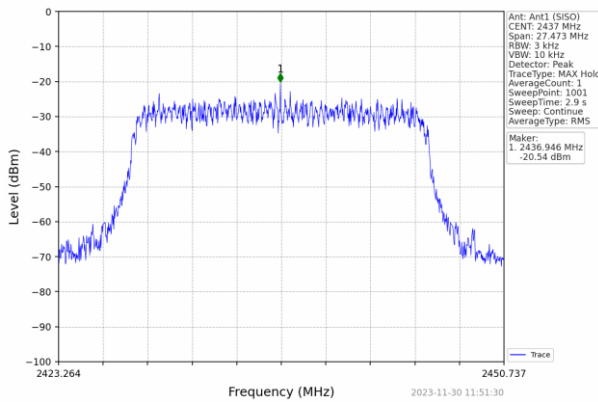
Report No.: HTT202311681F01

802.11n(HT20)

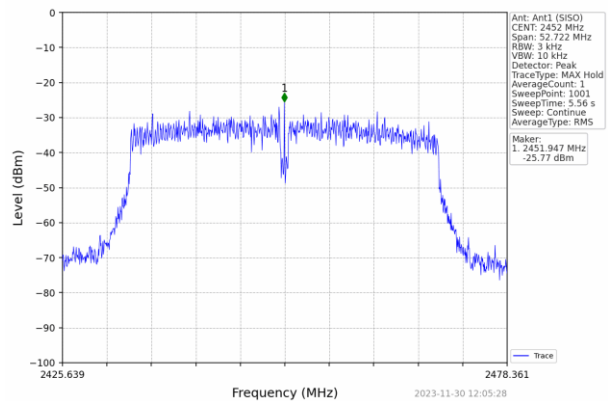
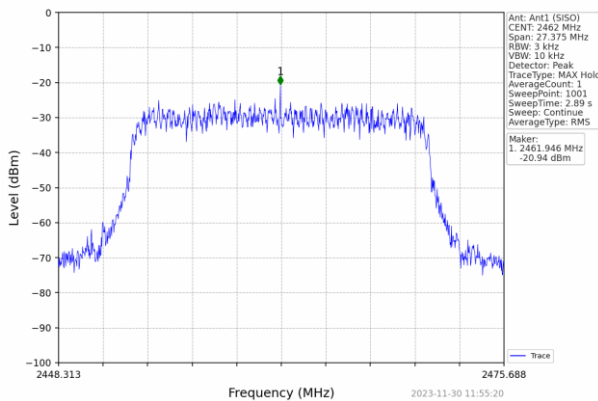
802.11n(HT40)



Lowest channel



Middle channel



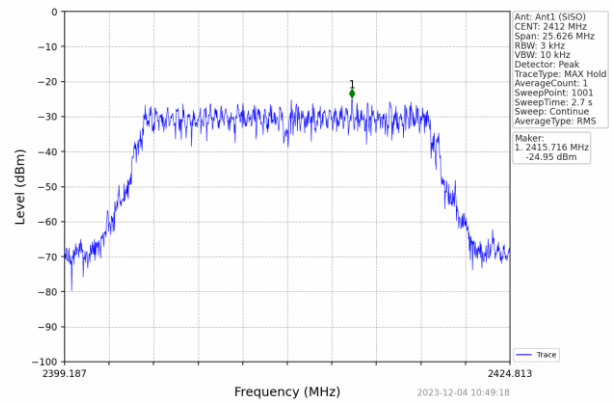
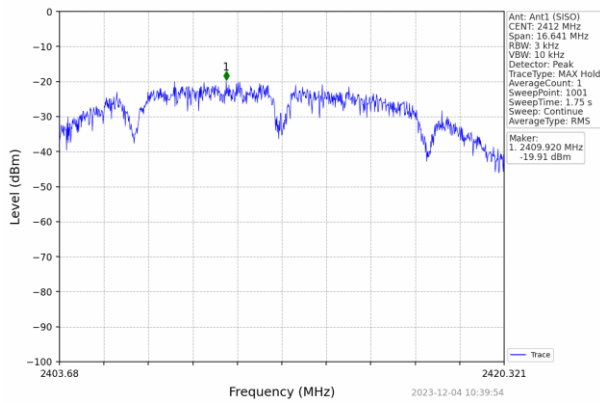
Highest channel



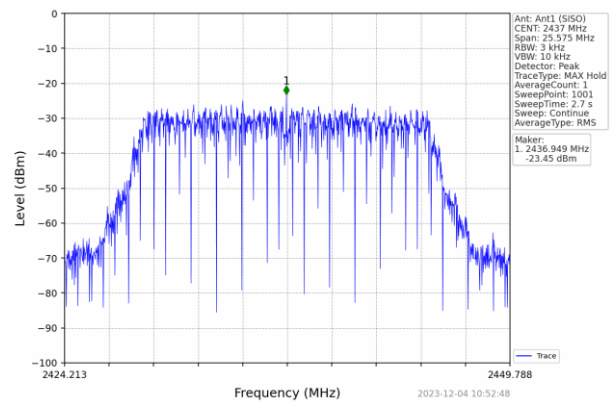
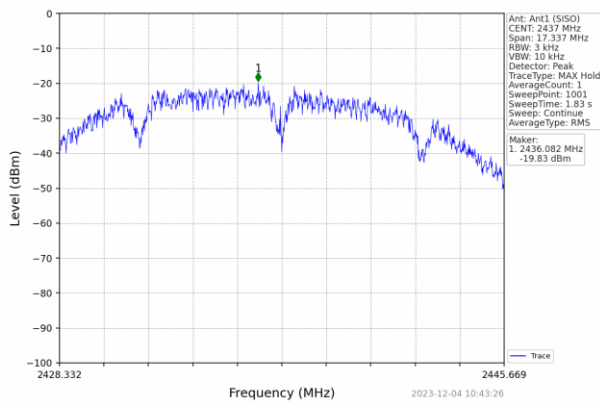
Report No.: HTT202311681F01

ANT 2

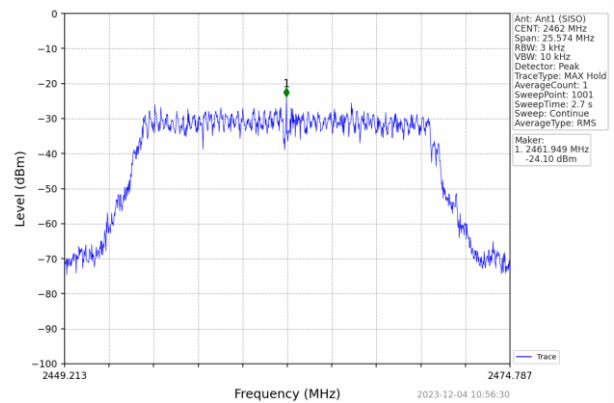
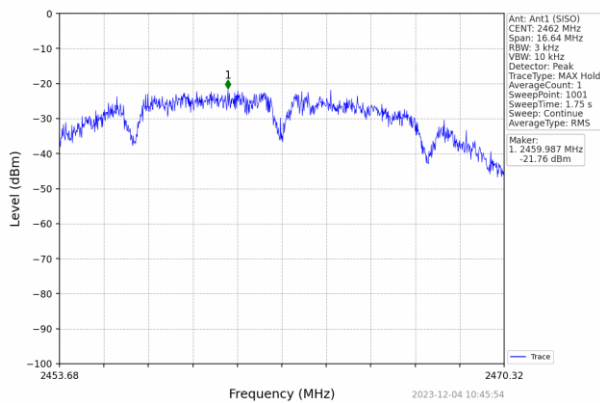
802.11b		802.11b	
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Lowest channel



Middle channel



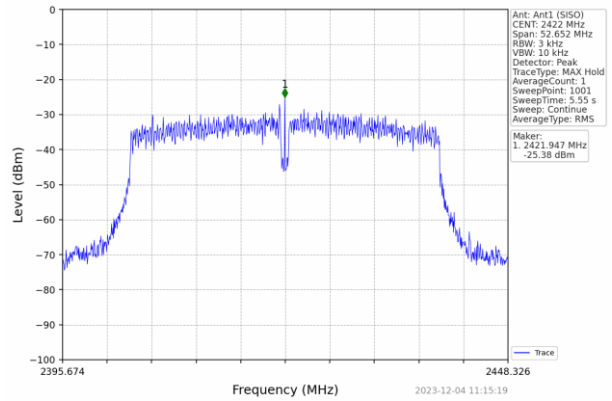
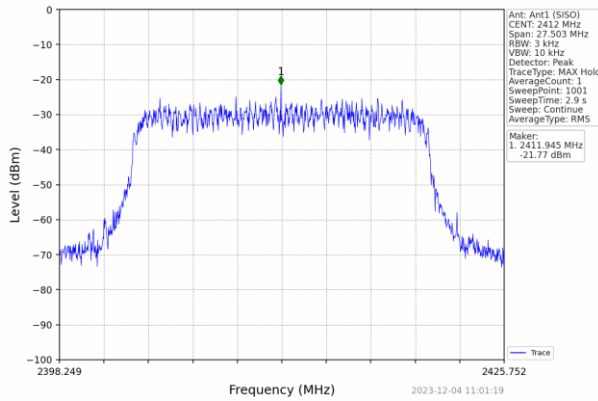
Highest channel



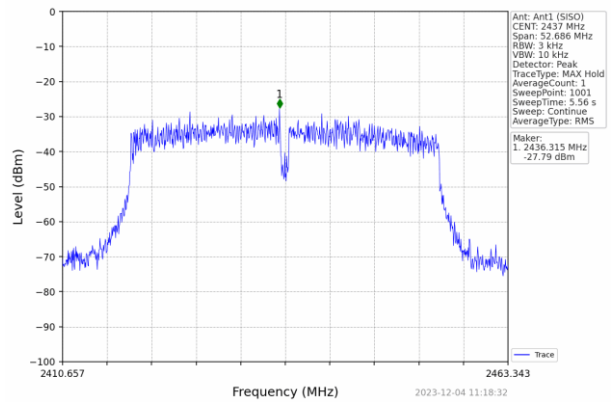
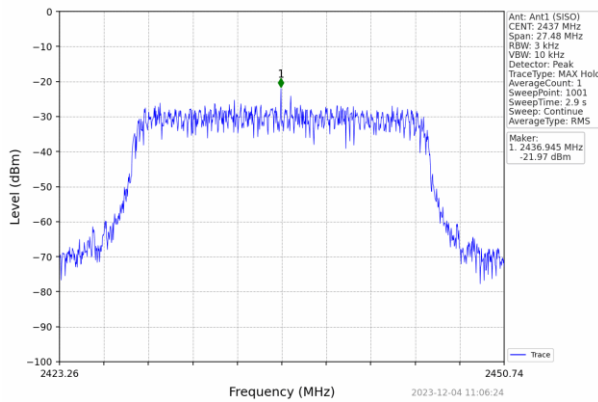
Report No.: HTT202311681F01

802.11n(HT20)

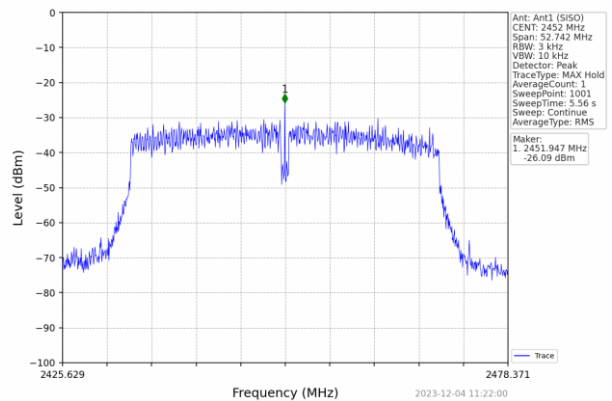
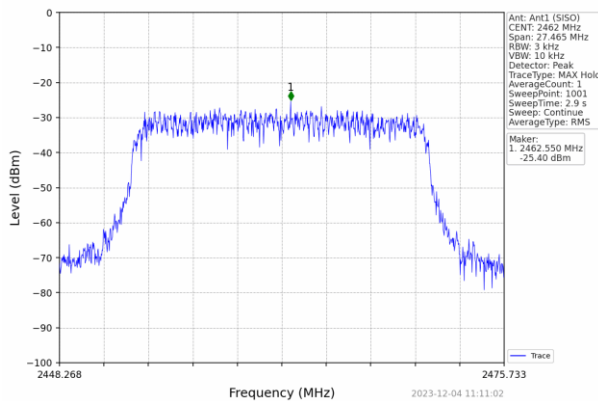
802.11n(HT40)



Lowest channel



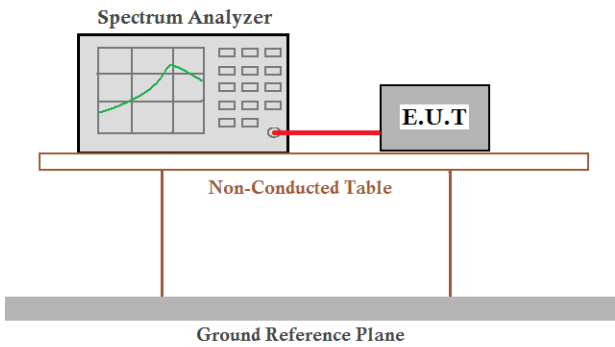
Middle channel



Highest channel

6.5. Band Edge

6.5.1. Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:						
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar

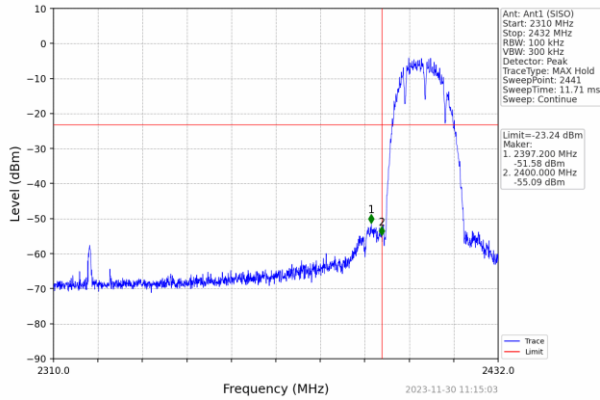


Report No.: HTT202311681F01

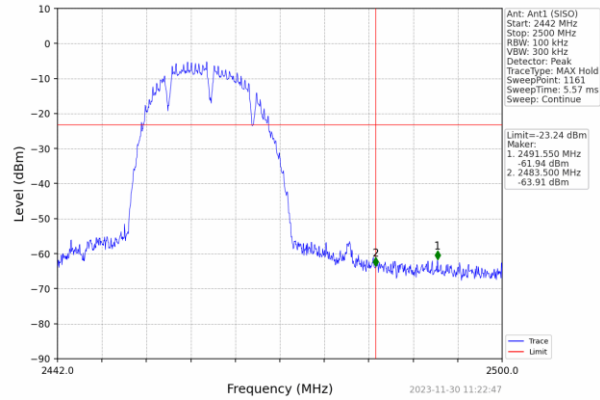
Test plot as follows:

ANT 1

Test mode:	802.11b
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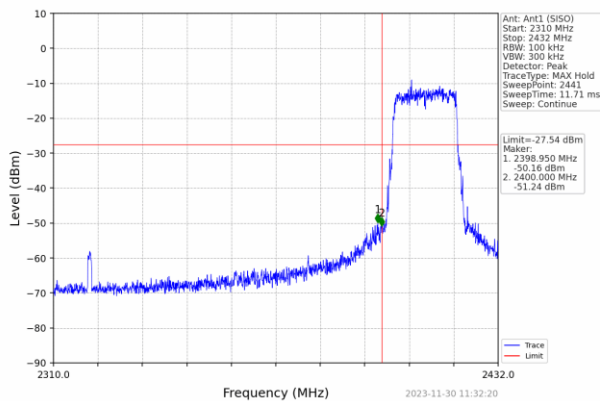


Lowest channel

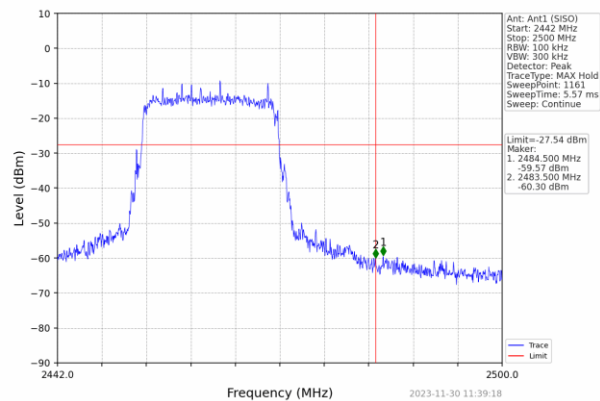


Highest channel

Test mode:	802.11g
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Lowest channel

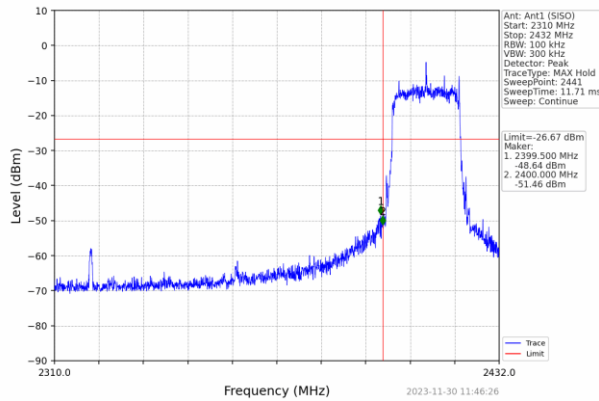


Highest channel

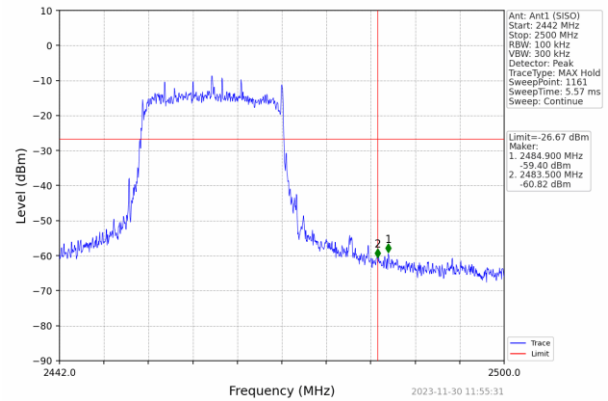


Report No.: HTT202311681F01

Test mode:	802.11n(HT20)
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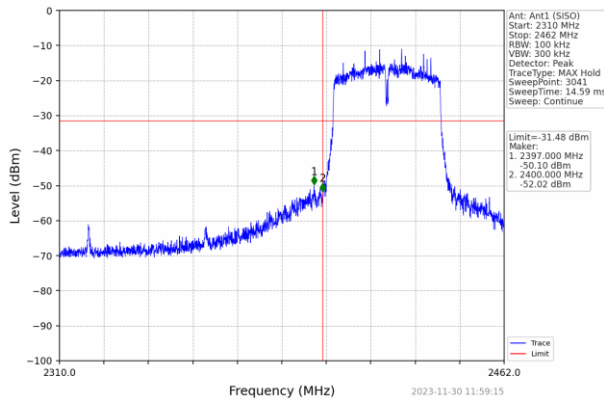


Lowest channel

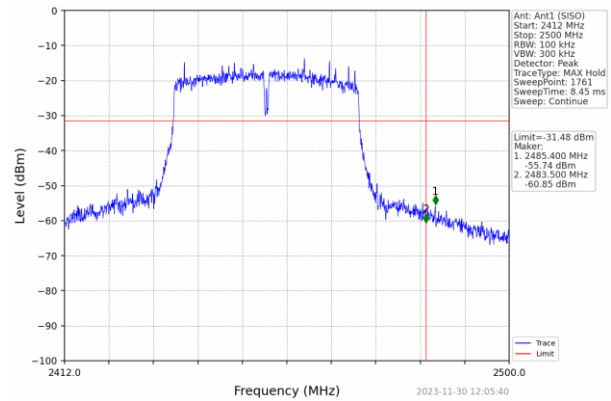


Highest channel

Test mode:	802.11n(HT40)
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Lowest channel



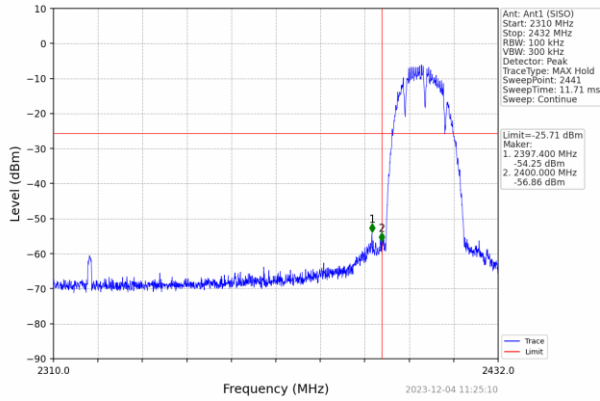
Highest channel



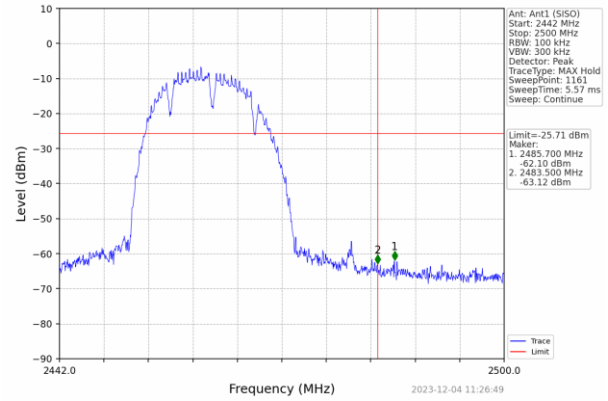
Report No.: HTT202311681F01

ANT 2

Test mode:	802.11b
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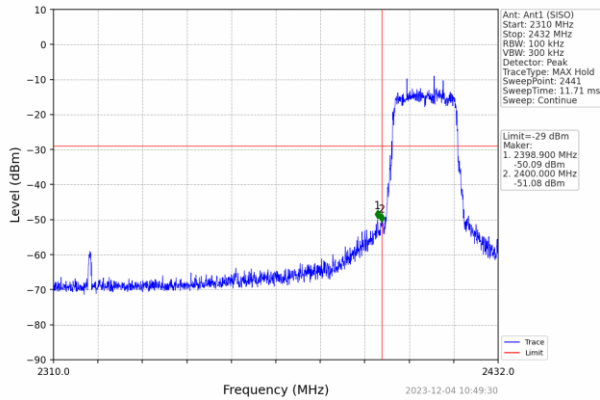


Lowest channel

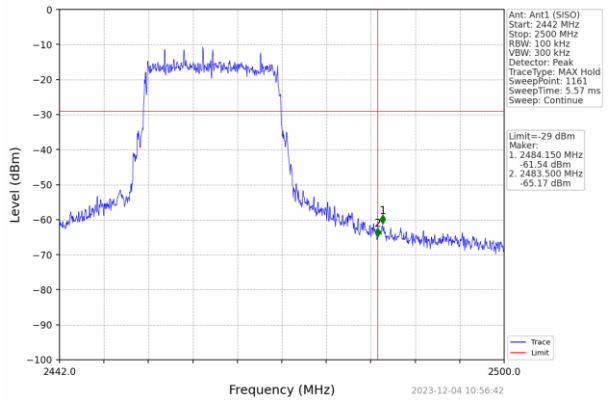


Highest channel

Test mode:	802.11g
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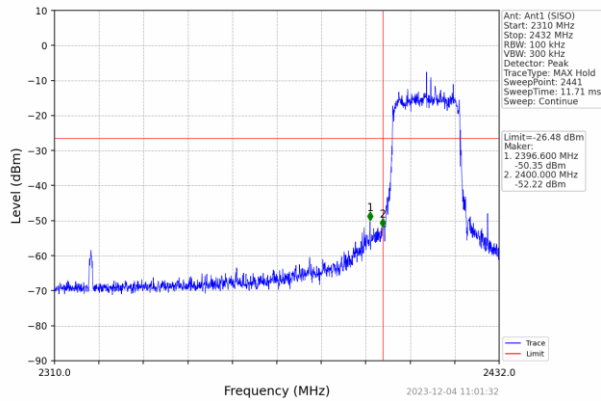
Lowest channel



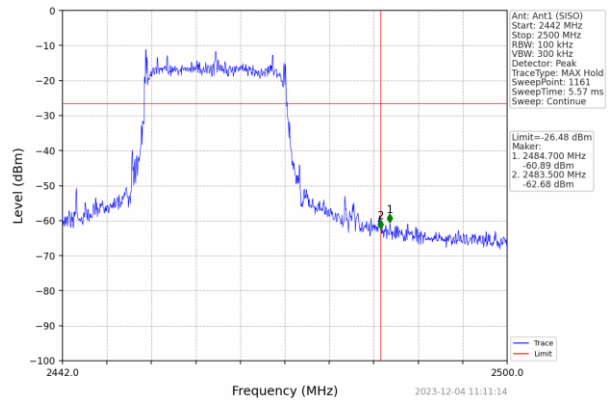
Highest channel



Test mode:	802.11n(HT20)
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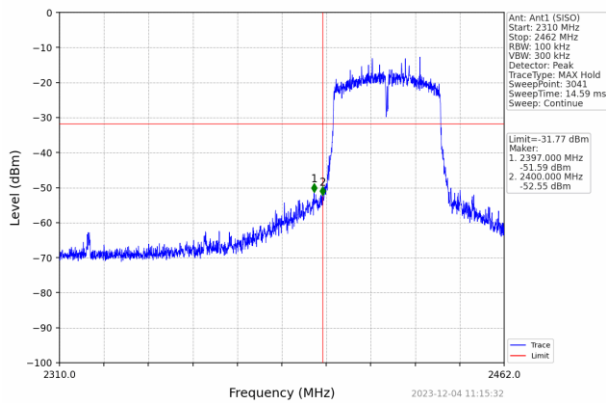


Lowest channel

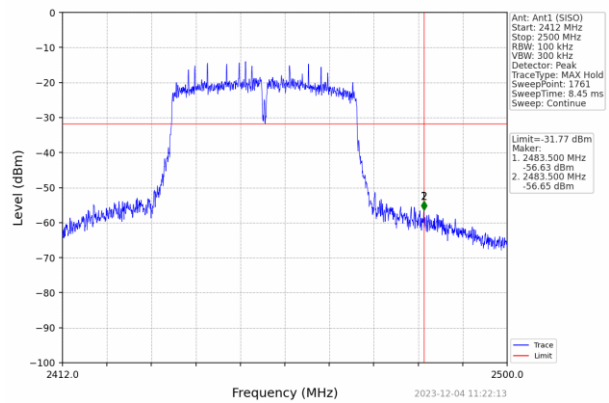


Highest channel

Test mode:	802.11n(HT40)
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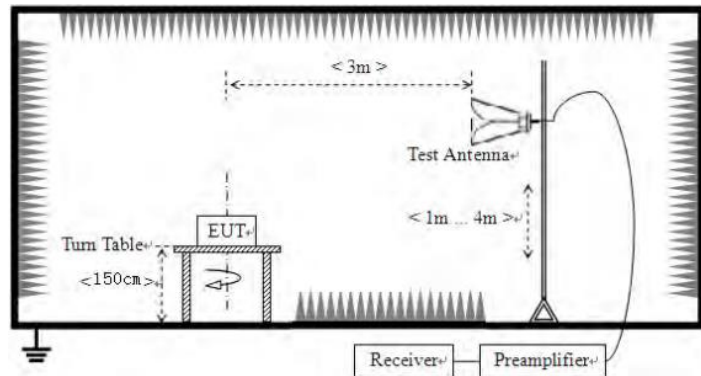


Lowest channel



Highest channel

6.5.2. Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.					
Test site:	Measurement Distance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Remark	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		Peak	1MHz	10Hz	Average Value	
Limit:	Frequency		Limit (dBuV/m @3m)		Remark	
	Above 1GHz		54.00		Average Value	
			74.00		Peak Value	
Test setup:						
Test Procedure:	<div>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div>					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar

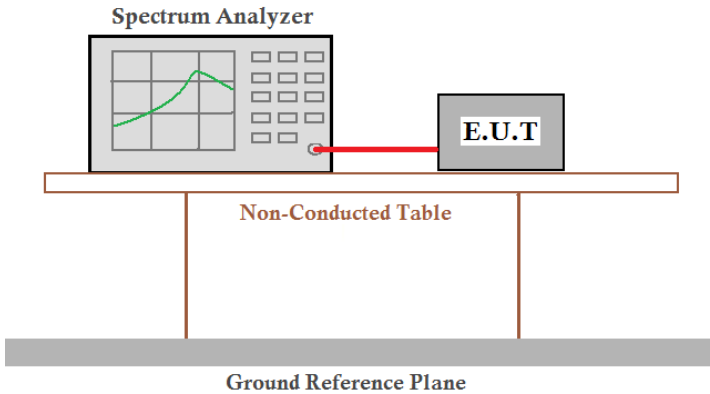
**Measurement Data**

Remark: During the test, pre-scan the 802.11b/802.11g/802.11n (H20)/802.11n (H40) modulation, and found the 802.11b modulation which it is worse case.

Frequency(MHz):			2412		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	61.32	PK	74	12.68	62.71	27.2	4.31	32.9	-1.39
2390.00	44.01	AV	54	9.99	45.40	27.2	4.31	32.9	-1.39
Frequency(MHz):			2412		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	59.07	PK	74	14.93	60.46	27.2	4.31	32.9	-1.39
2390.00	46.60	AV	54	7.40	47.99	27.2	4.31	32.9	-1.39
Frequency(MHz):			2462		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	56.47	PK	74	17.53	57.40	27.4	4.47	32.8	-0.93
2483.50	43.73	AV	54	10.27	44.66	27.4	4.47	32.8	-0.93
Frequency(MHz):			2462		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	55.36	PK	74	18.64	56.29	27.4	4.47	32.8	-0.93
2483.50	45.14	AV	54	8.86	46.07	27.4	4.47	32.8	-0.93

6.6. Spurious Emission

6.6.1. Conducted Emission Method

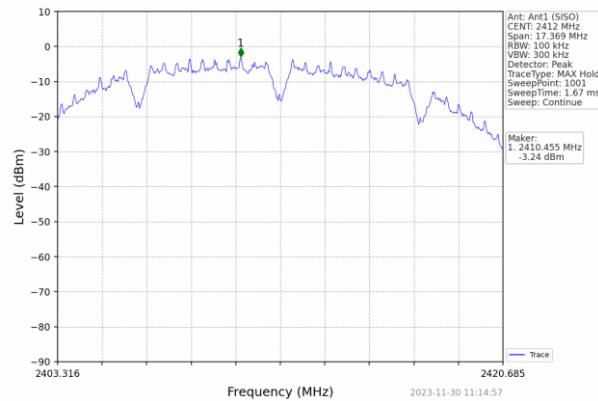
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	 <p>The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar



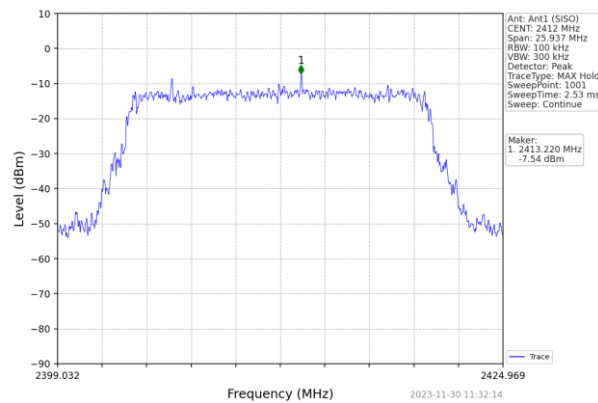
Report No.: HTT202311681F01

Measurement Data:
ANT 1

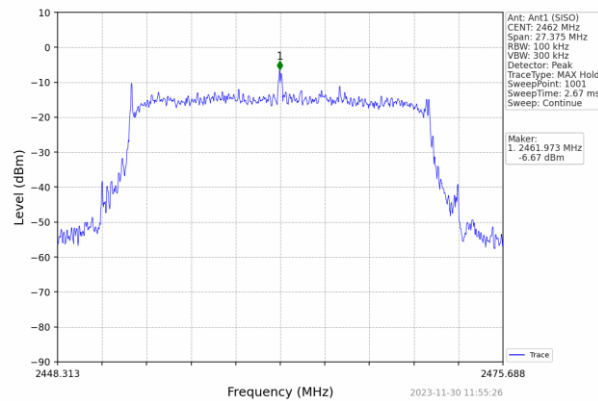
Reference



802.11b



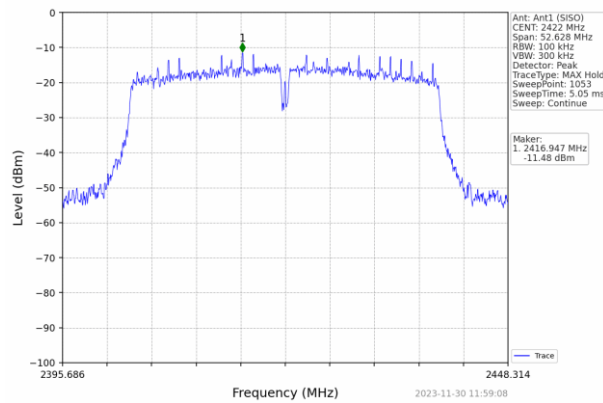
802.11g



802.11n(HT20)



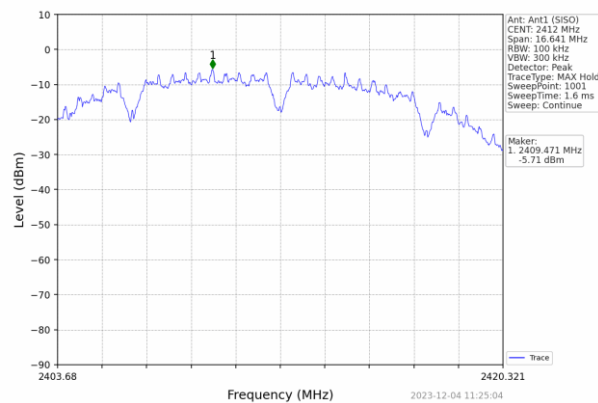
Report No.: HTT202311681F01



802.11n(HT40)

ANT 2

Reference



802.11b

