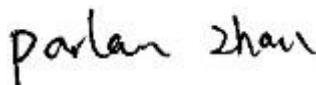


TEST REPORT

Application No.:	SHCR2210002323AT
FCC ID:	2A3IQ-2032G40
Applicant:	Hangzhou HikAuto Technology Co., Ltd.
Address of Applicant:	Room 309, Floor B, Building 2, No. 399, Danfeng Road, Binjiang District, Hangzhou City, Zhejiang, 310052, China
Manufacturer:	Hangzhou HikAuto Technology Co., Ltd.
Address of Manufacturer:	Room 309, Floor B, Building 2, No. 399, Danfeng Road, Binjiang District, Hangzhou City, Zhejiang, 310052, China
Factory:	Hangzhou HikAuto Technology Co., Ltd.
Address of Factory:	1, Room 309, Floor B, Building 2, No. 399, Danfeng Road, Binjiang District, Hangzhou City, Zhejiang, 310052, China 2, No. 188, Dongjia Road, Tonglu County, Hangzhou City, Zhejiang, 311500, China 3, No. 700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang, 310052, China
Equipment Under Test (EUT):	
EUT Name:	DashCam
Model No.:	AE-DI2032-G40, AE-DI2032-G40 Lite, AE-DI2032-G40 Pro, AE-DI2032-G40 AI, AE-DI2032-G40 Base, AE-DI2032-G4, AE-DI2032-G, AE-DI2032-G6, AE-DI2032-G7, AE-DI2032-G8, AE-DI2032-G9, AE-DI2032-G40(XX), AE-DI2032-G40S, AE-DI2032-G40s, AE-DI2032-G40 L, AE-DI2032-G40 P, AE-DI2032-G40 A, AE-DI2032-G40 B, AE-DI2032-G40L, AE-DI2032-G40P, AE-DI2032-G40A, AE-DI2032-G40B, AE-DI2032-XXXXXX (X=0-9 or A-Z or / or - or * or blank) ♣
Remark ♣:	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2022-10-28
Date of Test:	2022-10-29 to 2022-11-03
Date of Issue:	2022-11-04
Test Result:	Pass*

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



Parlam Zhan
Laboratory Manager



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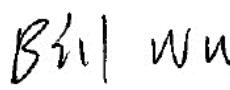
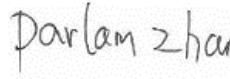
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Revision Record			
Version	Description	Date	Remark
00	Original	2022-11-04	/

Authorized for issue by:			
	 Bill Wu	Bill Wu/Project Engineer	
	 Parlam Zhan	Parlam Zhan/Reviewer	

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.3	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model AE-DI2032-G40 was tested since their differences were the model number and appearance.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12V
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	Chip Antenna
Antenna Gain:	1.72 dBi (Provided by manufacturer)
Date Rate:	802.11b:1/2/5.5./11Mbps 802.11g:6/9/12/18/24/36/48/54Mbps 802.11n:MCS0-MCS7

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	LENOVO	L460	-
SecureCRT	VanDyke	V 6.2.0	-

4.3 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Low	44	54	54	48
Middle	50	56	56	50
High	54	60	60	54

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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
EEC EMC Lab

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4.4 Measurement Uncertainty & Decision Rule

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.9dB
7	Conducted Spurious emissions	0.75dB
8	RF Radiated power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious emission test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

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4.6 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2021-12-20	2022-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2022-07-25	2023-07-24
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2020-04-15	2023-04-14
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2021-12-20	2022-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2021-12-20	2022-12-19
Conducted test Cable	/	RF01~RF04	/	2021-12-20	2022-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2021-12-20	2022-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2021-12-20	2022-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2021-05-07	2023-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022/8/11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2021-12-20	2022-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2022-01-07	2023-01-06
Test software	ESE	E3	Version: 6.111221a	/	/

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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.

EUT Antenna:

The antenna is chip antenna and no consideration of replacement. The best case gain of the antenna is 1.72 dBi.

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

7.1 Conducted Average Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.0 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode _ Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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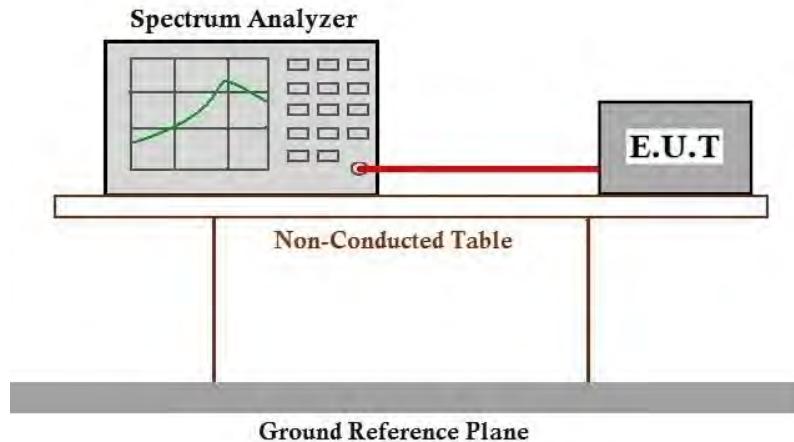
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

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7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

7.2.1 E.U.T. Operation

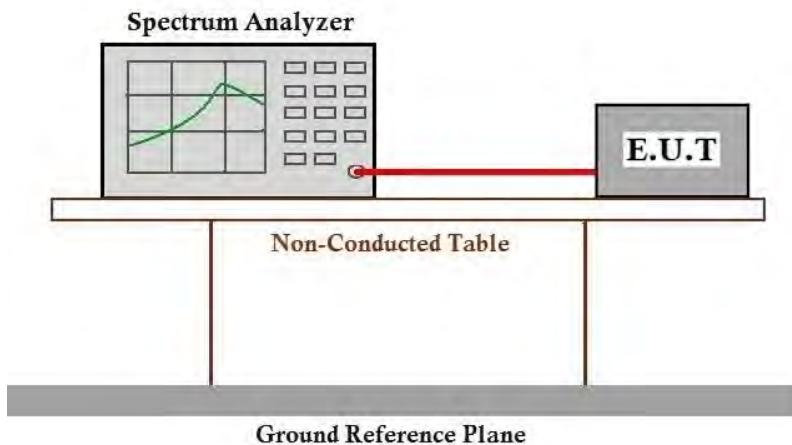
Operating Environment:

Temperature: 22.3 °C Humidity: 52.1 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2013) Section 11.10.3

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

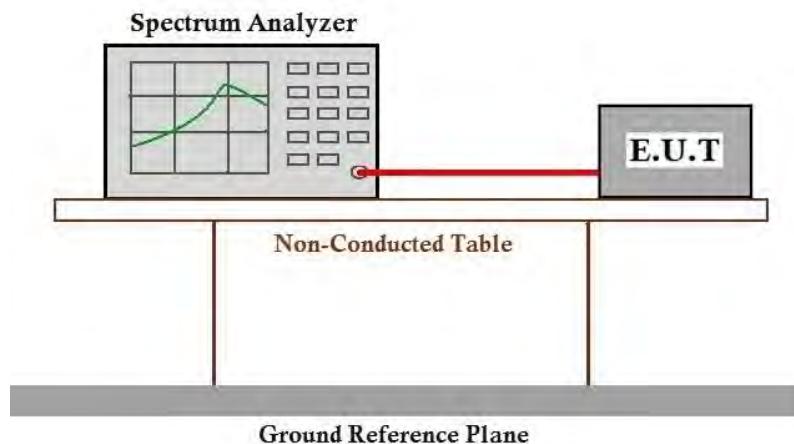
Humidity: 52.3 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.1 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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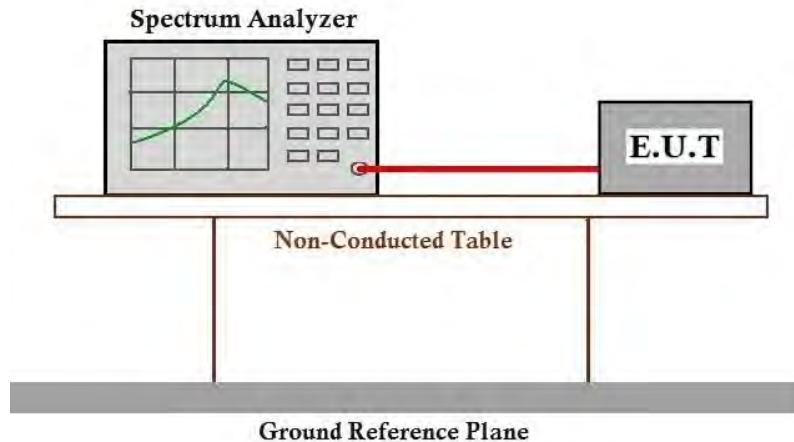
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.1 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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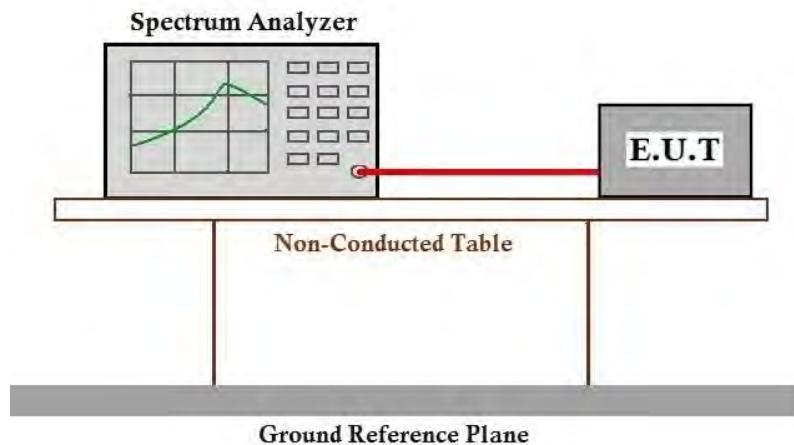
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.1 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

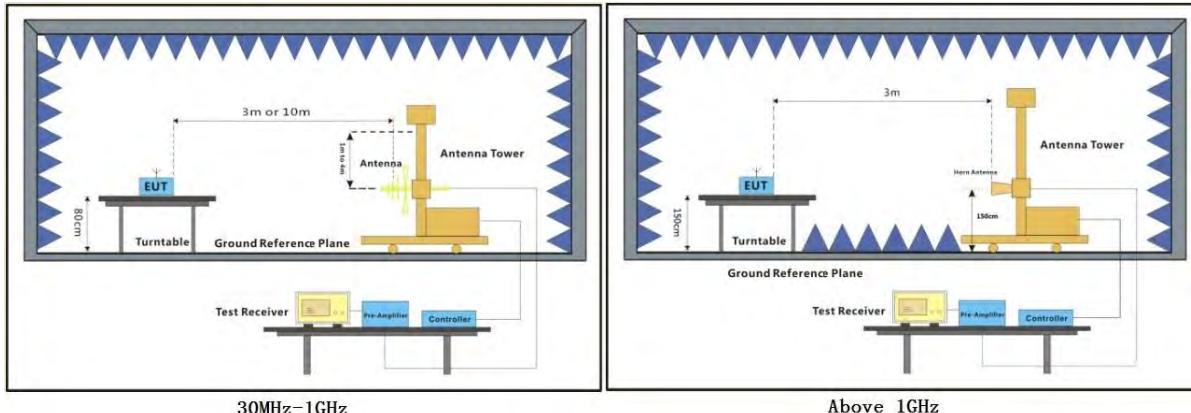
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

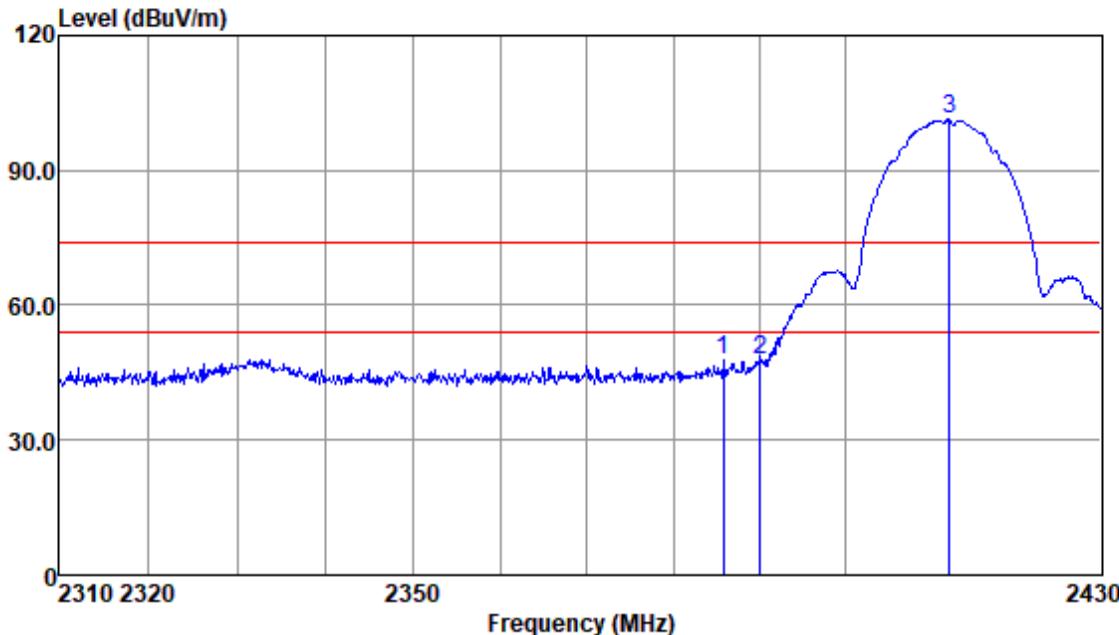
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.74	49.49	28.80	4.60	35.18	47.71	74.00	-26.29	Peak
2390.00	49.50	28.80	4.60	35.18	47.72	74.00	-26.28	Peak
2412.10	103.12	28.90	4.65	35.20	101.47	74.00	27.47	Peak

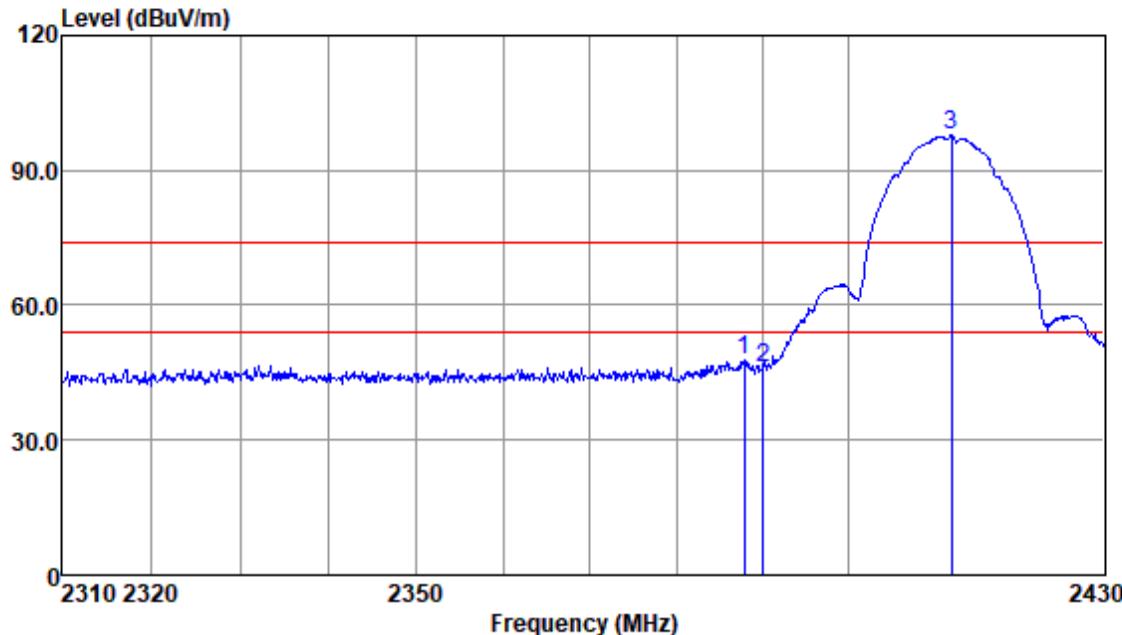
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.79	49.73	28.80	4.60	35.18	47.95	74.00	-26.05	Peak
2390.00	47.97	28.80	4.60	35.18	46.19	74.00	-27.81	Peak
2411.98	99.47	28.90	4.65	35.20	97.82	74.00	23.82	Peak

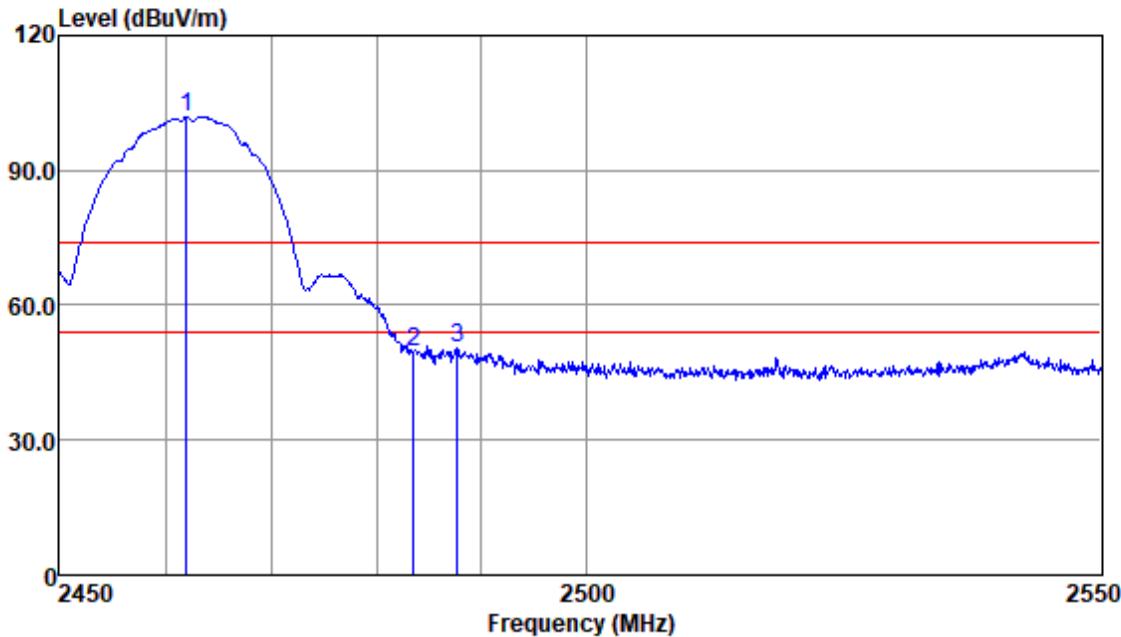
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2461.99	103.45	29.05	4.74	35.24	102.00	74.00	28.00	Peak
2483.50	51.03	29.09	4.78	35.26	49.64	74.00	-24.36	Peak
2487.73	52.03	29.09	4.78	35.26	50.64	74.00	-23.36	Peak

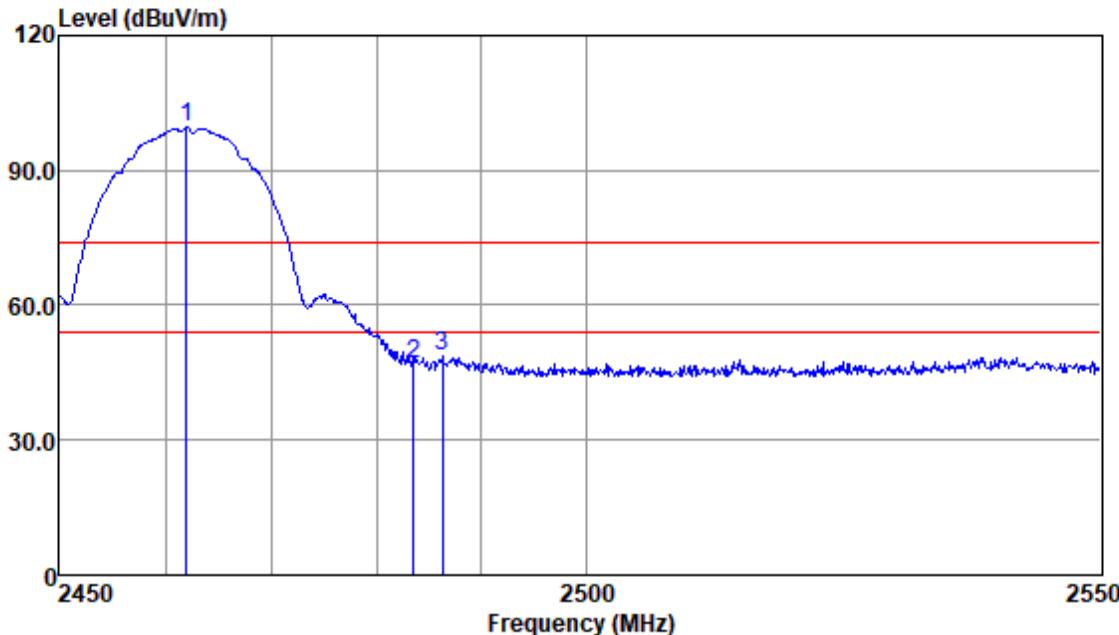
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2461.99	101.11	29.05	4.74	35.24	99.66	74.00	25.66	Peak
2483.50	48.34	29.09	4.78	35.26	46.95	74.00	-27.05	Peak
2486.34	50.18	29.09	4.78	35.26	48.79	74.00	-25.21	Peak

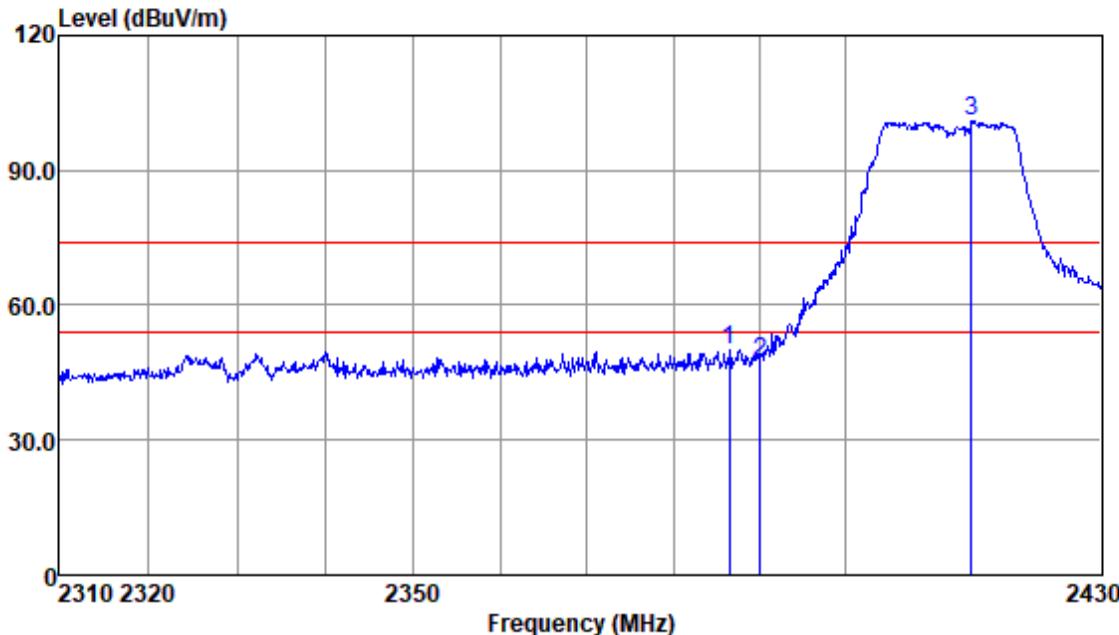
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2386.46	51.97	28.80	4.60	35.18	50.19	74.00	-23.81	Peak
2390.00	49.24	28.80	4.60	35.18	47.46	74.00	-26.54	Peak
2414.67	102.77	28.90	4.65	35.20	101.12	74.00	27.12	Peak

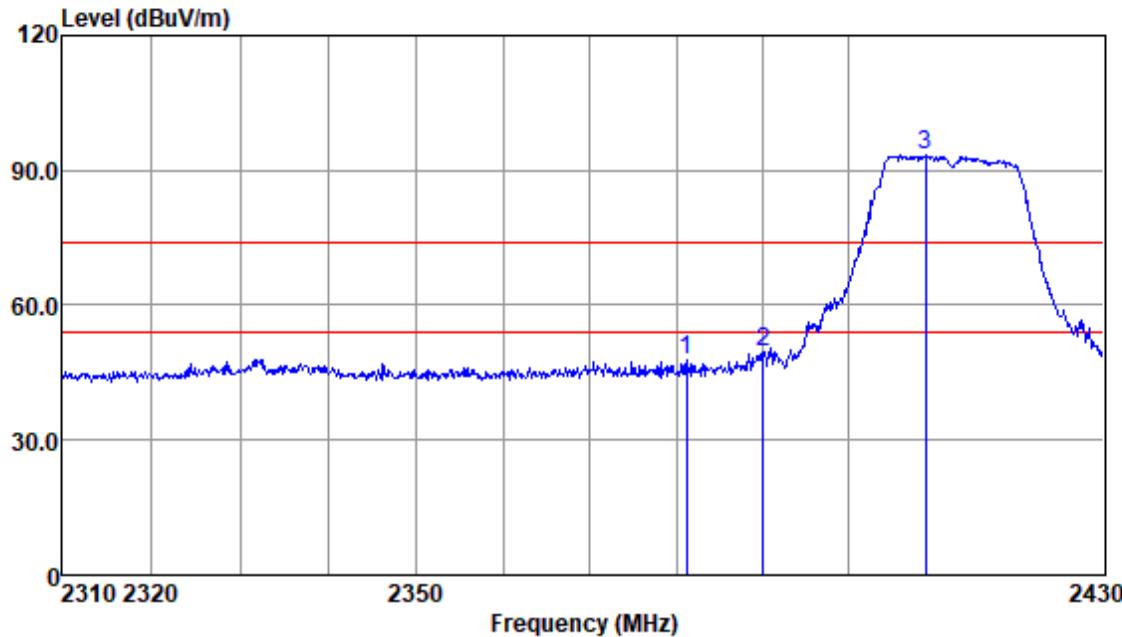
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2381.15	49.60	28.76	4.59	35.17	47.78	74.00	-26.22	Peak
2390.00	51.51	28.80	4.60	35.18	49.73	74.00	-24.27	Peak
2408.93	94.89	28.89	4.64	35.20	93.22	74.00	19.22	Peak

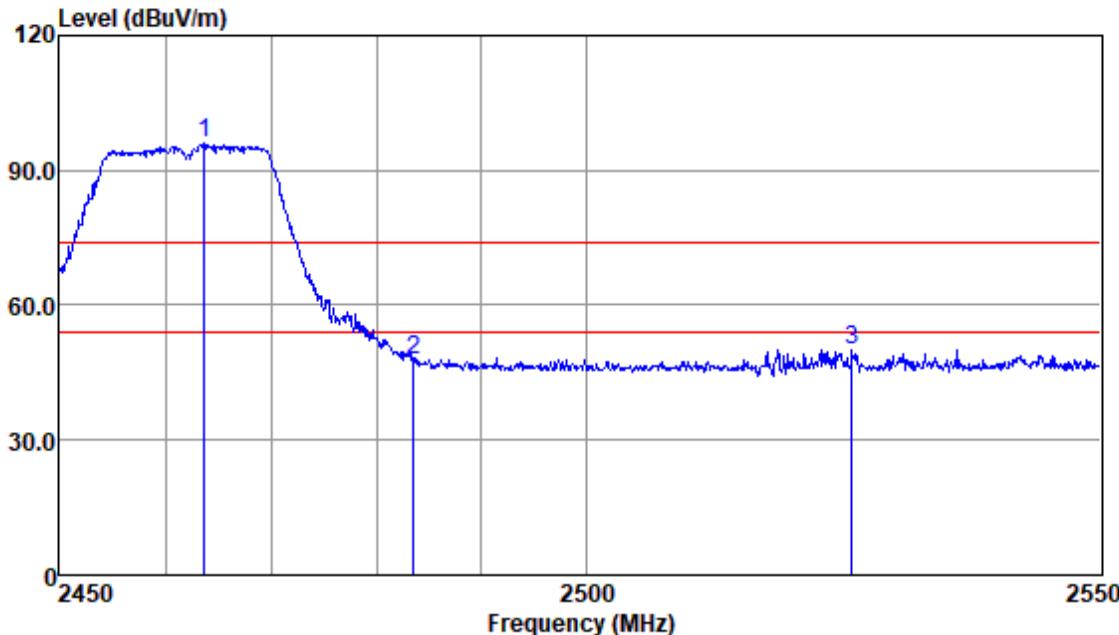
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.66	97.38	29.05	4.74	35.24	95.93	74.00	21.93	Peak
2483.50	49.12	29.09	4.78	35.26	47.73	74.00	-26.27	Peak
2525.74	51.49	29.13	4.85	35.31	50.16	74.00	-23.84	Peak

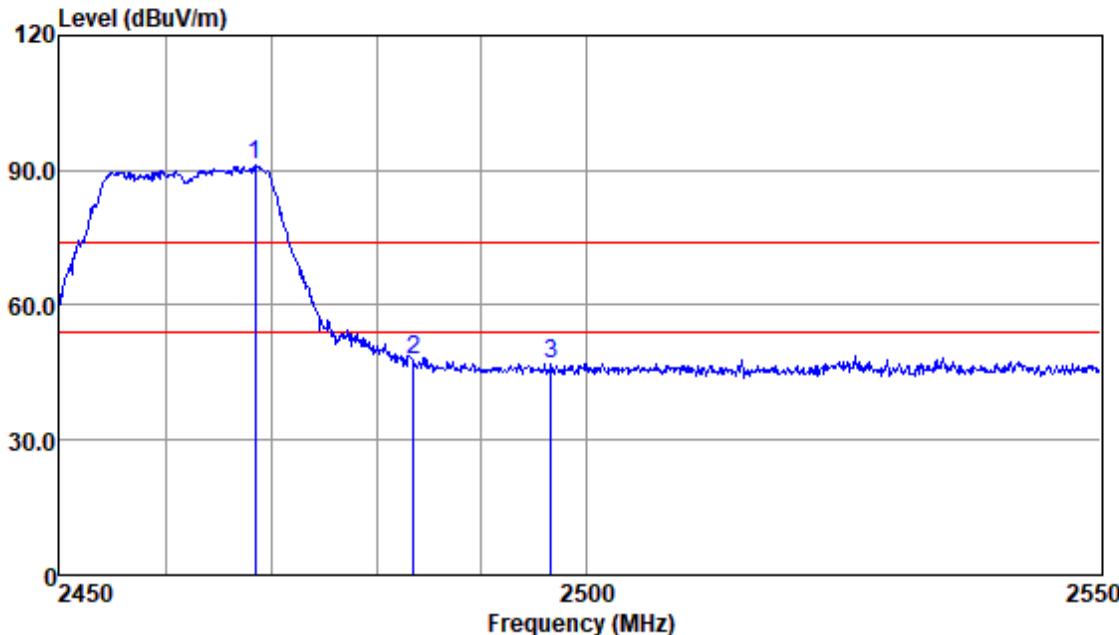
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.50	92.46	29.06	4.75	35.25	91.02	74.00	17.02	Peak
2483.50	49.01	29.09	4.78	35.26	47.62	74.00	-26.38	Peak
2496.70	48.45	29.12	4.80	35.27	47.10	74.00	-26.90	Peak

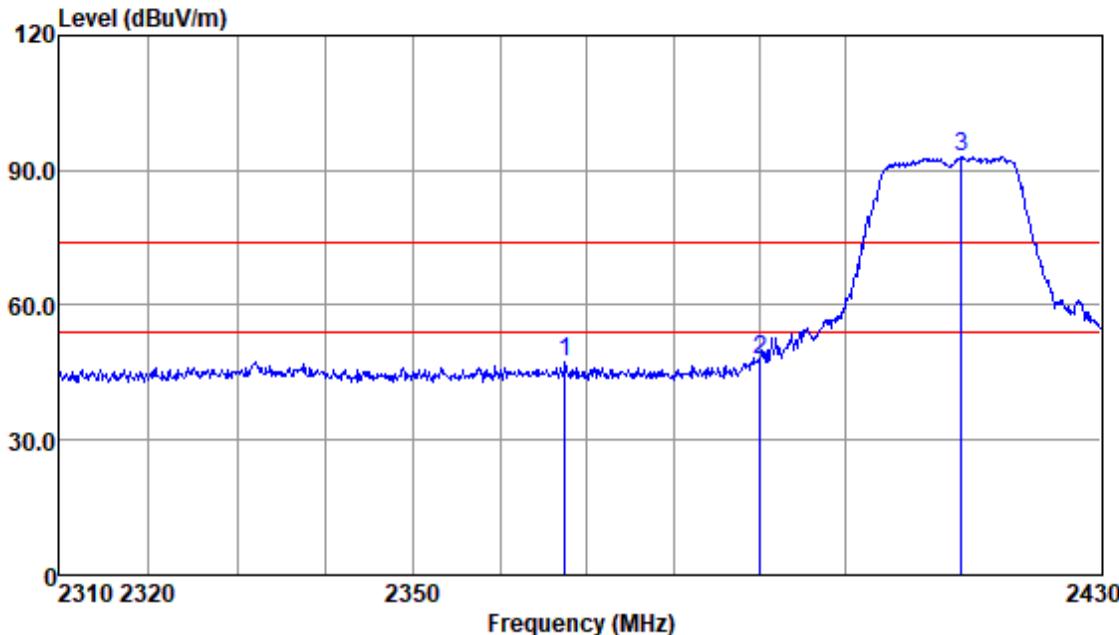
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2367.44	49.09	28.68	4.56	35.16	47.17	74.00	-26.83	Peak
2390.00	49.57	28.80	4.60	35.18	47.79	74.00	-26.21	Peak
2413.57	94.65	28.90	4.65	35.20	93.00	74.00	19.00	Peak

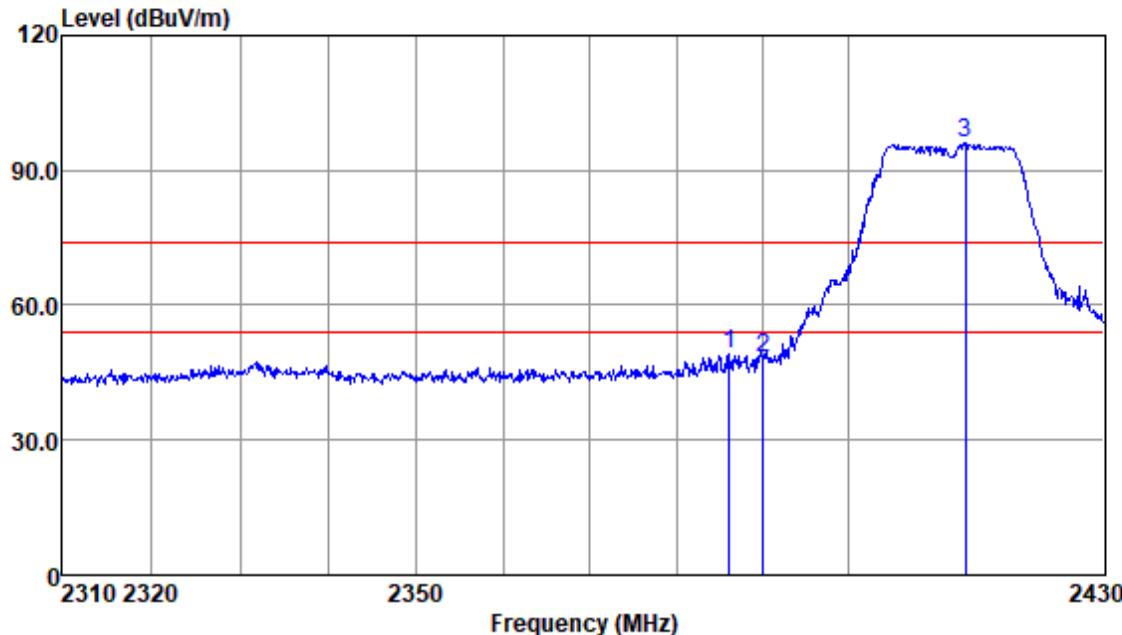
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2386.10	51.03	28.80	4.60	35.18	49.25	74.00	-24.75	Peak
2390.00	49.99	28.80	4.60	35.18	48.21	74.00	-25.79	Peak
2413.69	97.57	28.90	4.65	35.20	95.92	74.00	21.92	Peak

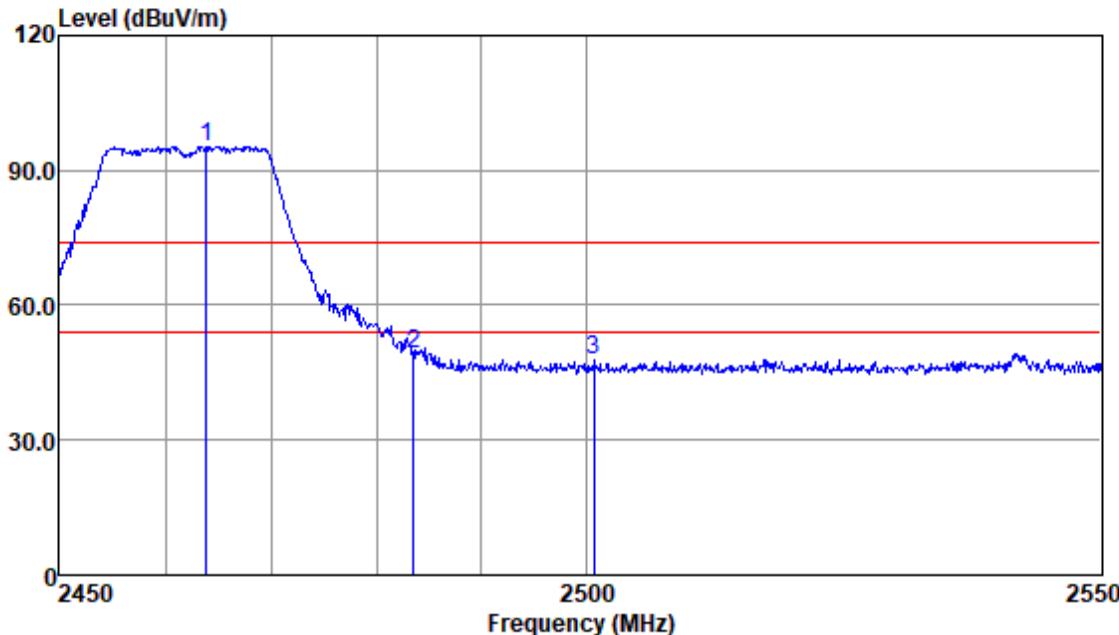
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.86	96.76	29.05	4.74	35.24	95.31	74.00	21.31	Peak
2483.50	50.69	29.09	4.78	35.26	49.30	74.00	-24.70	Peak
2500.80	49.20	29.12	4.80	35.27	47.85	74.00	-26.15	Peak

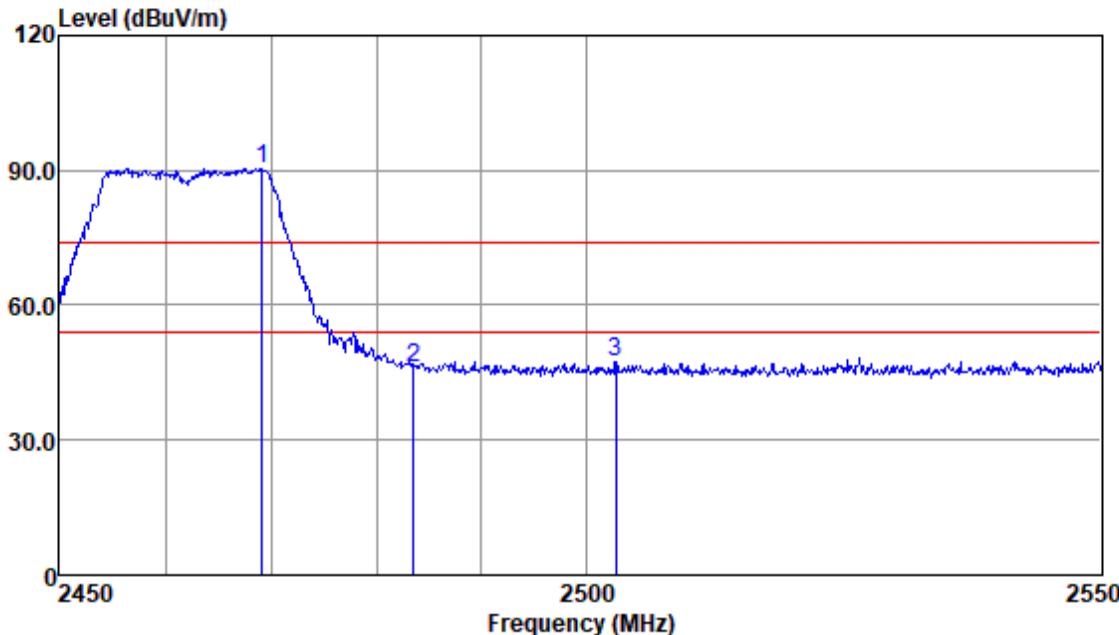
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2469.19	91.98	29.06	4.75	35.25	90.54	74.00	16.54	Peak
2483.50	47.32	29.09	4.78	35.26	45.93	74.00	-28.07	Peak
2502.90	48.70	29.12	4.80	35.27	47.35	74.00	-26.65	Peak

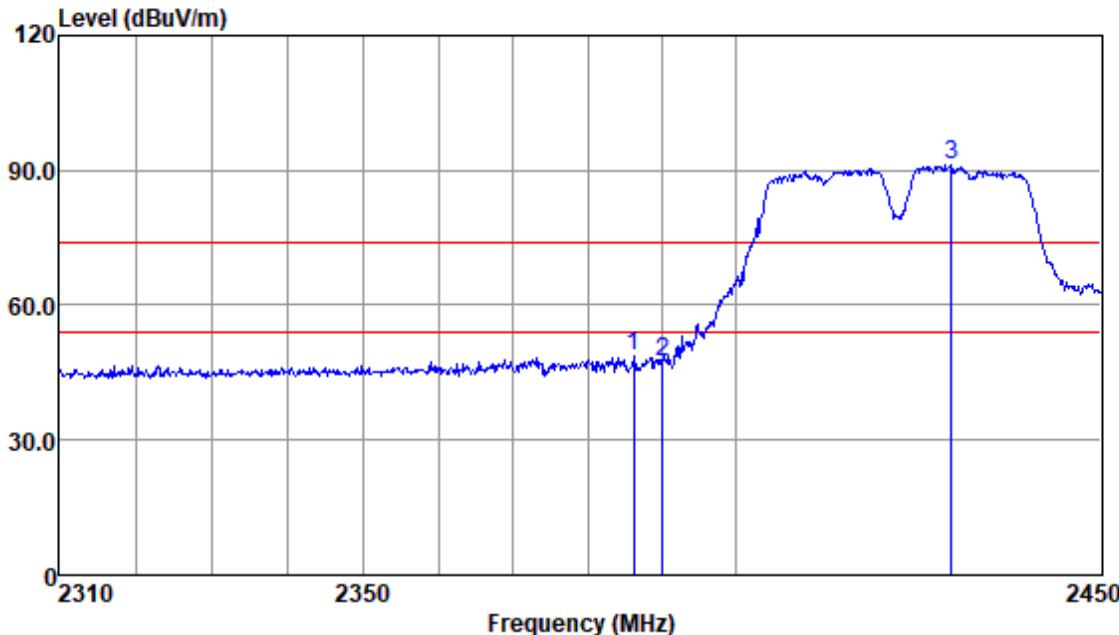
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2386.12	50.39	28.80	4.60	35.18	48.61	74.00	-25.39	Peak
2390.00	49.20	28.80	4.60	35.18	47.42	74.00	-26.58	Peak
2429.33	92.67	28.96	4.67	35.21	91.09	74.00	17.09	Peak

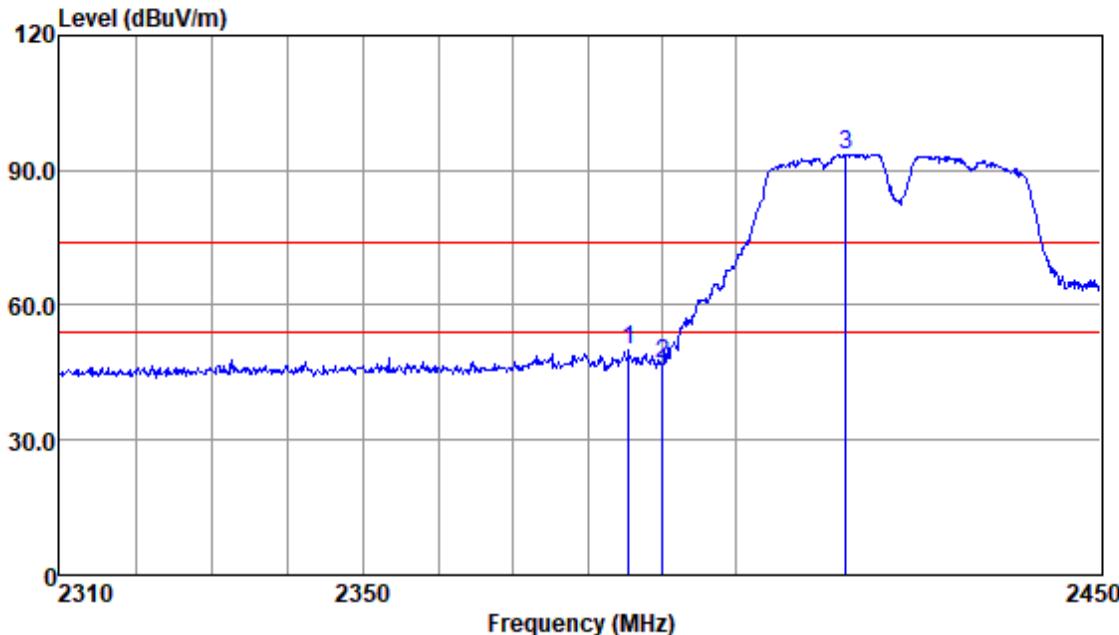
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.42	51.65	28.80	4.60	35.18	49.87	74.00	-24.13	Peak
2390.00	48.77	28.80	4.60	35.18	46.99	74.00	-27.01	Peak
2414.93	95.29	28.90	4.65	35.20	93.64	74.00	19.64	Peak

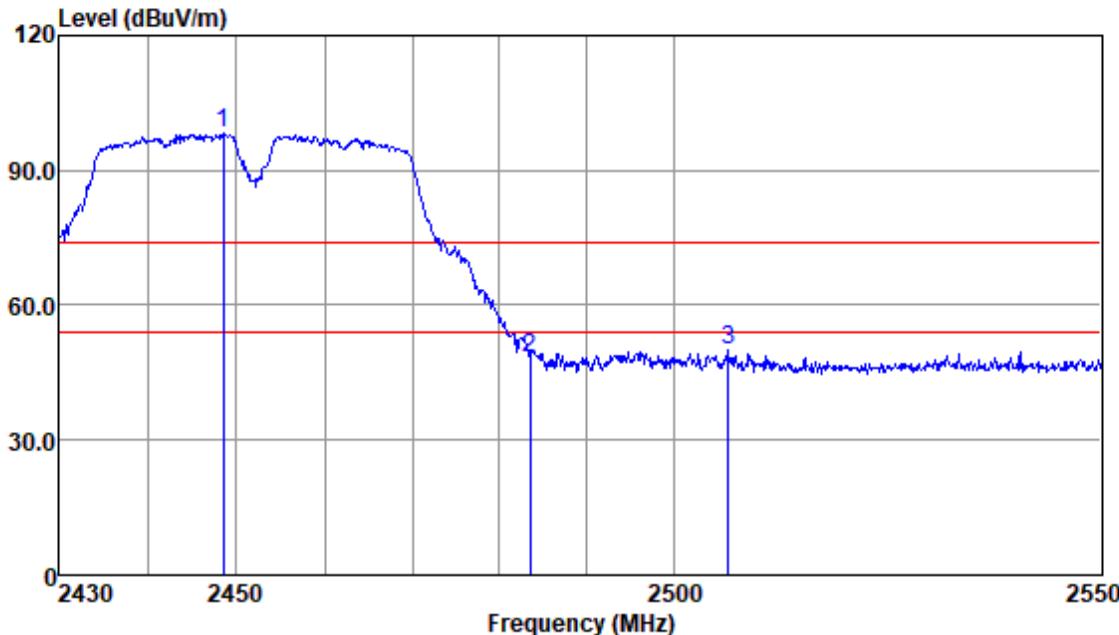
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2448.46	99.85	29.02	4.71	35.23	98.35	74.00	24.35	Peak
2483.50	49.87	29.09	4.78	35.26	48.48	74.00	-25.52	Peak
2506.37	51.27	29.13	4.81	35.28	49.93	74.00	-24.07	Peak

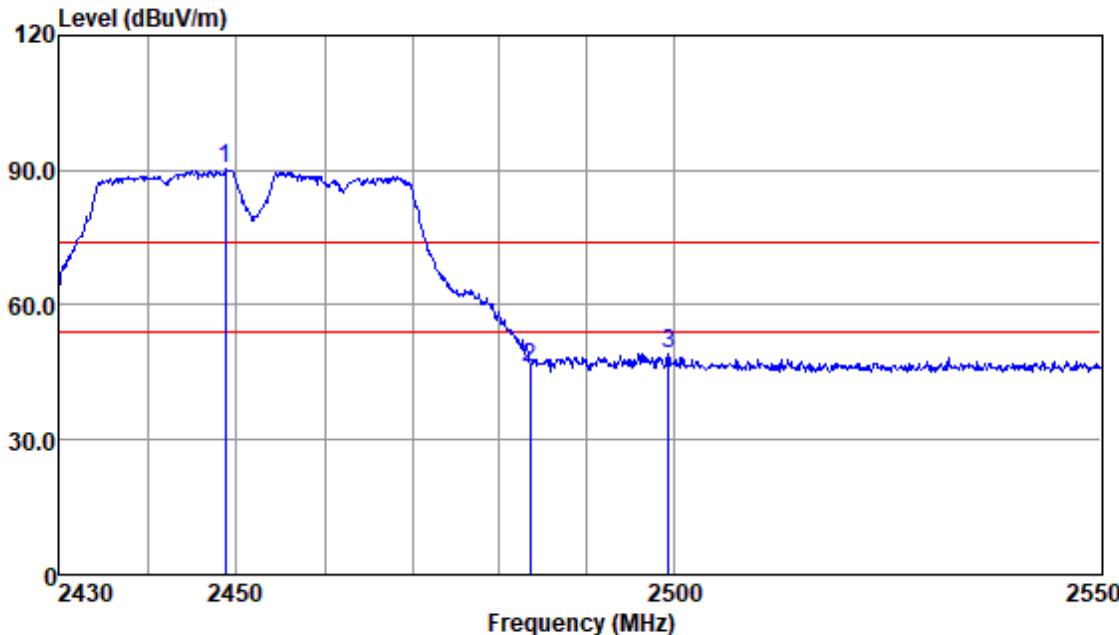
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2448.70	91.64	29.02	4.71	35.23	90.14	74.00	16.14	Peak
2483.50	47.62	29.09	4.78	35.26	46.23	74.00	-27.77	Peak
2499.50	50.65	29.12	4.80	35.27	49.30	74.00	-24.70	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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7.7 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

Humidity: 52.0 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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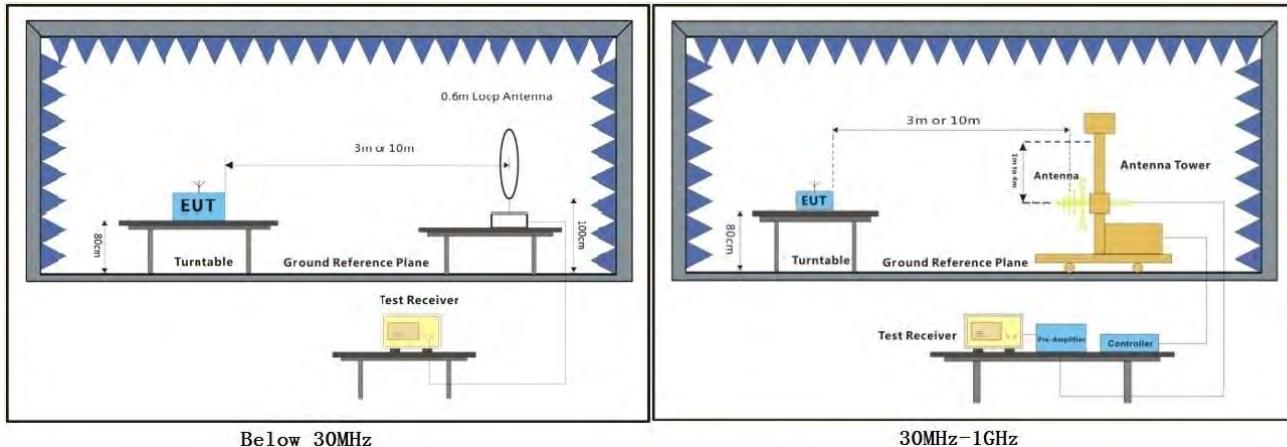
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

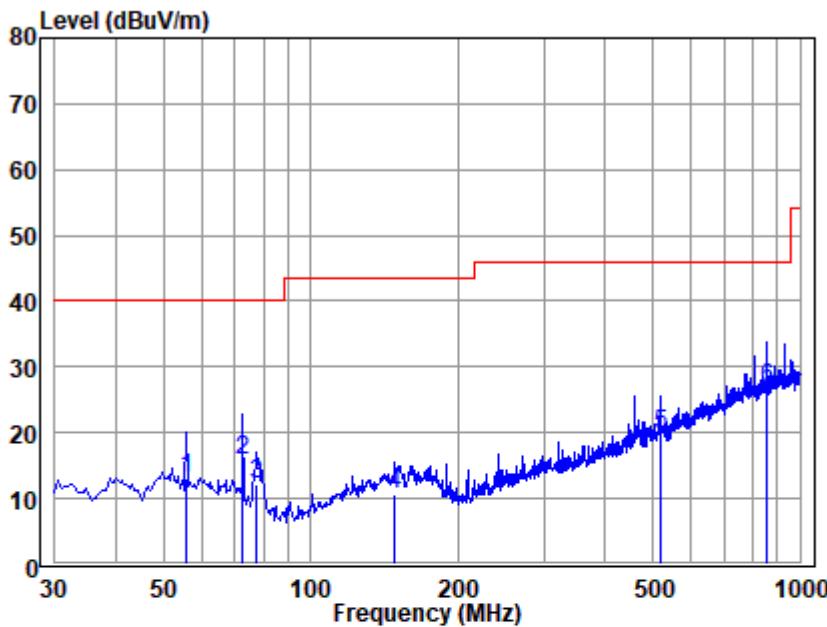
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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Test Mode: 00; Polarity: Horizontal



Antenna Polarity :Horizontal
EUT/Project :2322AT
Test mode :00

Freq	Read	Antenna	Cable	Preamp	Emission	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	55.72	29.92	13.50	1.78	32.00	13.20	40.00	-26.80 QP
2	72.70	34.59	10.94	2.05	31.79	15.79	40.00	-24.21 QP
3	77.55	32.00	9.63	2.13	31.70	12.06	40.00	-27.94 QP
4	148.88	26.37	13.41	2.95	32.07	10.66	43.50	-32.84 QP
5	519.61	29.37	18.15	5.79	33.68	19.63	46.00	-26.37 QP
6	853.94	26.80	22.86	7.28	30.20	26.74	46.00	-19.26 QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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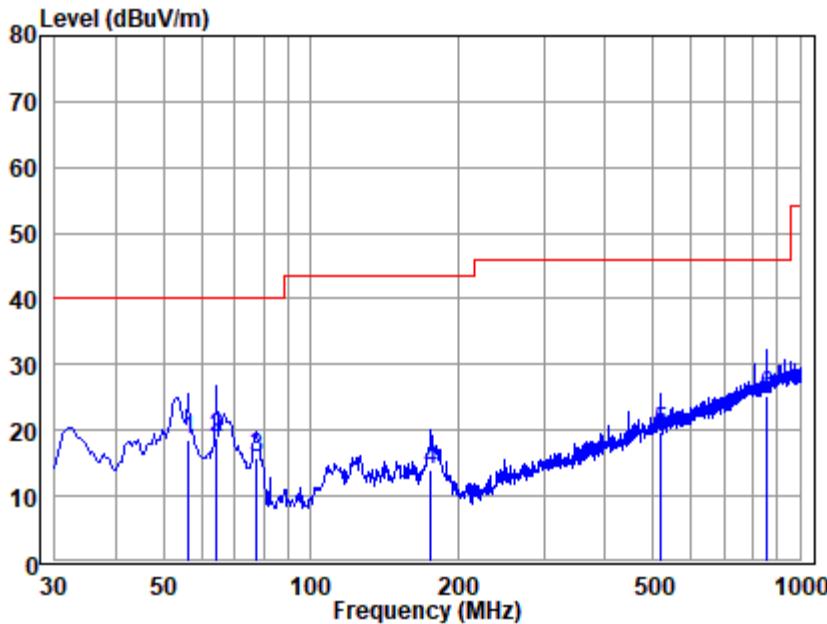
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Test Mode: 00; Polarity: Vertical



Antenna Polarity :Vertical
EUT/Project :2322AT
Test mode :00

Freq	Read	Antenna	Cable	Preamp	Emission	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	56.20	35.26	13.46	1.77	32.00	18.49	40.00	-21.51 QP
2	63.97	36.09	12.65	1.95	31.90	18.79	40.00	-21.21 QP
3	77.07	35.68	9.81	2.11	31.70	15.90	40.00	-24.10 QP
4	176.06	31.01	12.06	3.22	32.17	14.12	43.50	-29.38 QP
5	519.61	29.40	18.15	5.79	33.68	19.66	46.00	-26.34 QP
6	853.94	25.35	22.86	7.28	30.20	25.29	46.00	-20.71 QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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7.8 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.8.1 E.U.T. Operation

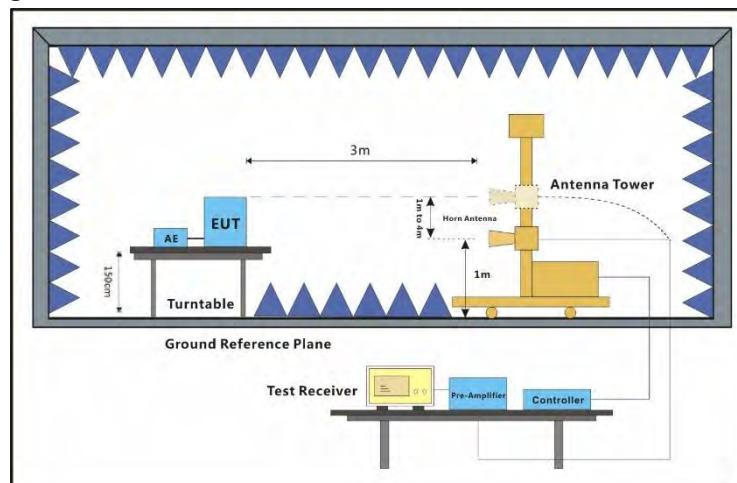
Operating Environment:

Temperature: 22.3 °C Humidity: 52.2 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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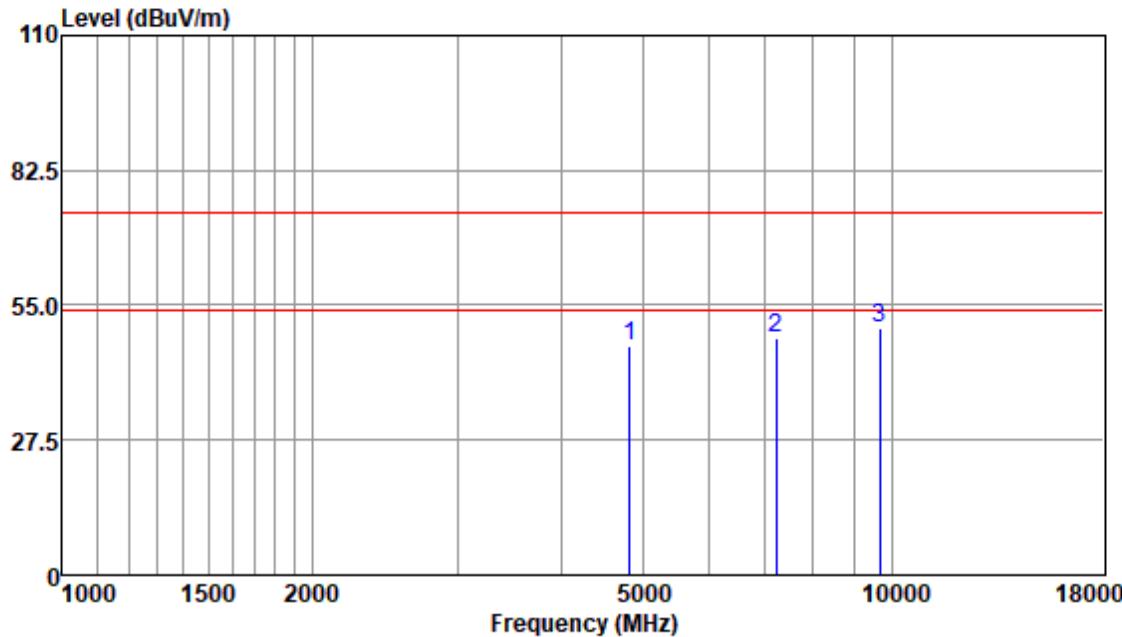
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	42.10	33.78	7.46	36.79	46.55	74.00	-27.45	Peak
7236.00	39.59	36.35	7.80	35.50	48.24	74.00	-25.76	Peak
9648.00	37.58	37.69	8.57	33.56	50.28	74.00	-23.72	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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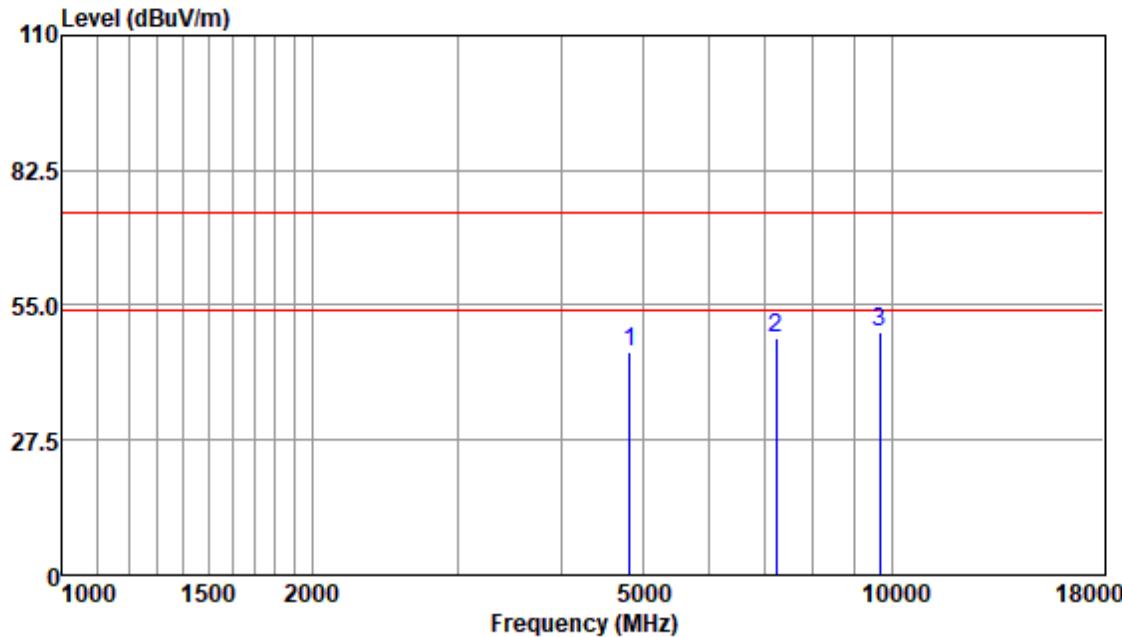
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4824.00	40.81	33.78	7.46	36.79	45.26	74.00	-28.74	Peak
7236.00	39.57	36.35	7.80	35.50	48.22	74.00	-25.78	Peak
9648.00	36.67	37.69	8.57	33.56	49.37	74.00	-24.63	Peak

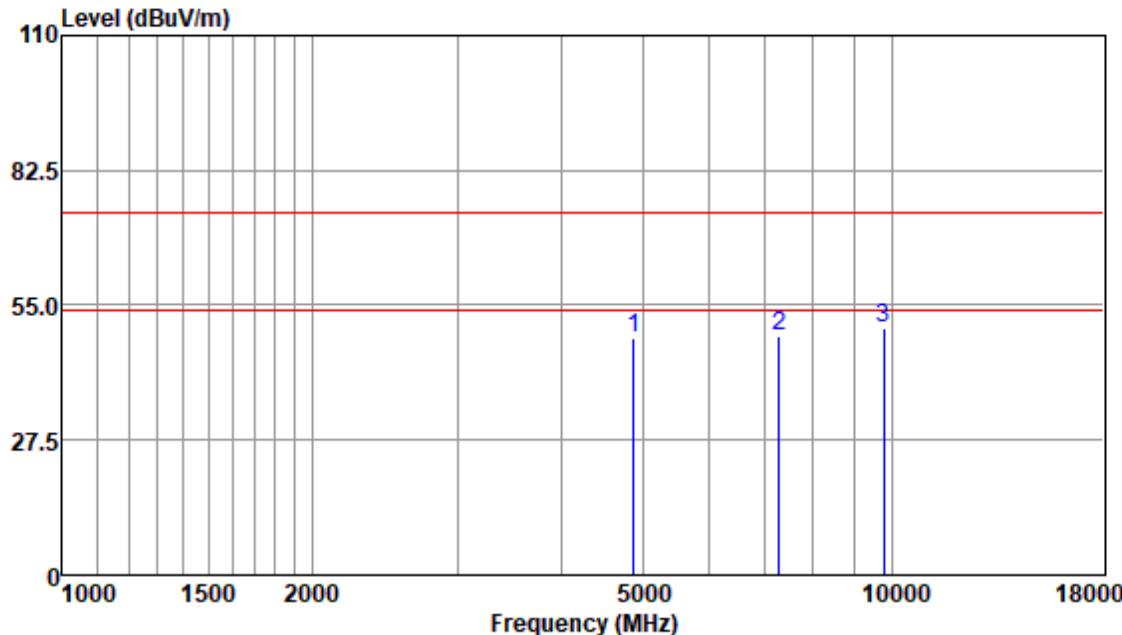
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	43.57	33.93	7.46	36.81	48.15	74.00	-25.85	Peak
7311.00	39.70	36.47	7.82	35.44	48.55	74.00	-25.45	Peak
9748.00	37.42	37.68	8.57	33.50	50.17	74.00	-23.83	Peak

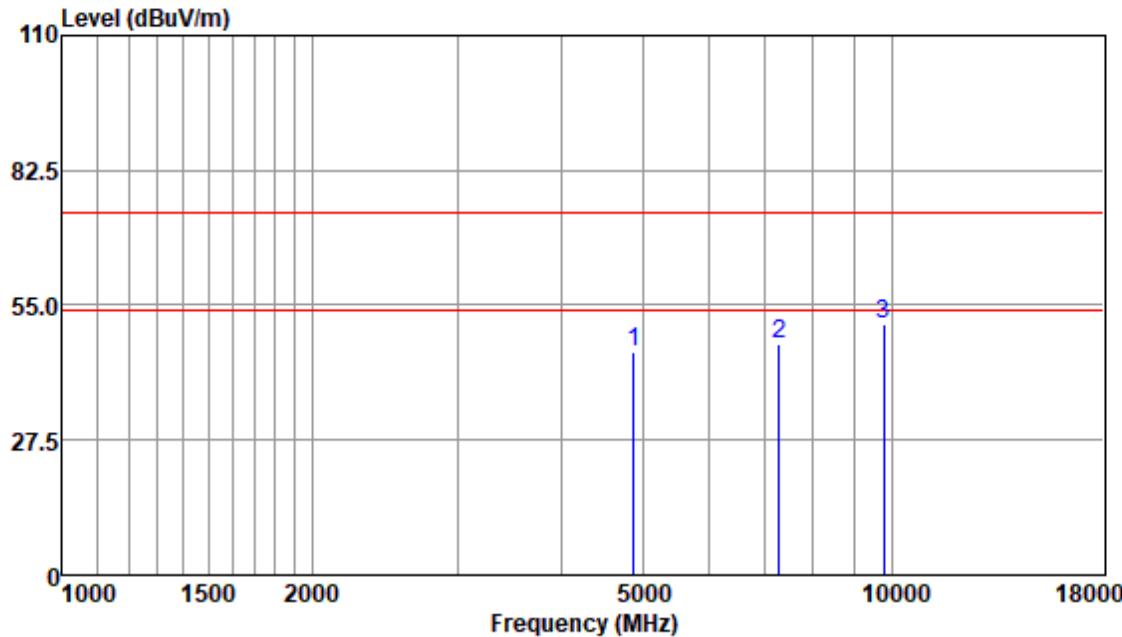
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4874.00	40.68	33.93	7.46	36.81	45.26	74.00	-28.74	Peak
7311.00	38.29	36.47	7.82	35.44	47.14	74.00	-26.86	Peak
9748.00	38.23	37.68	8.57	33.50	50.98	74.00	-23.02	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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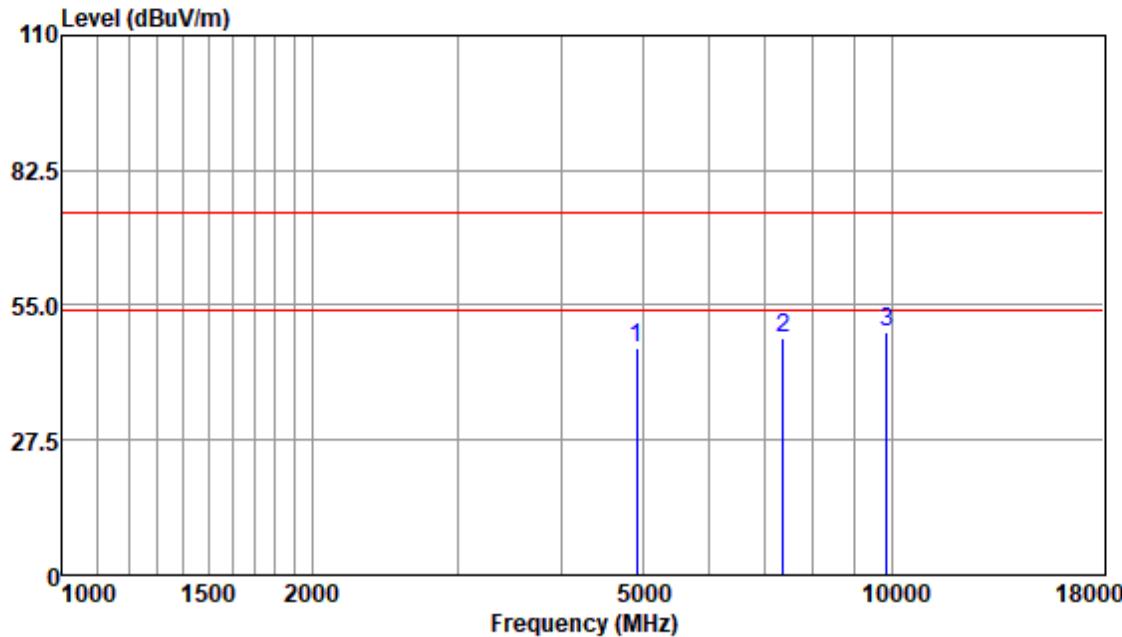
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	41.70	33.98	7.46	36.82	46.32	74.00	-27.68	Peak
7386.00	39.17	36.48	7.86	35.37	48.14	74.00	-25.86	Peak
9848.00	36.89	37.56	8.58	33.45	49.58	74.00	-24.42	Peak

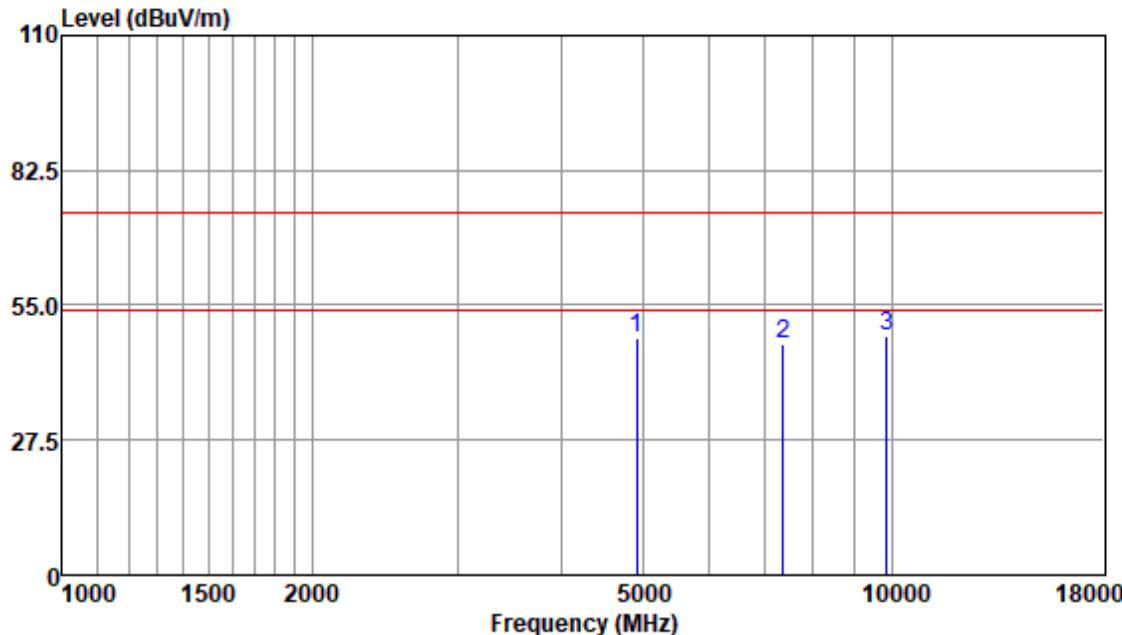
Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4924.00	43.63	33.98	7.46	36.82	48.25	74.00	-25.75	Peak
7386.00	38.14	36.48	7.86	35.37	47.11	74.00	-26.89	Peak
9848.00	35.96	37.56	8.58	33.45	48.65	74.00	-25.35	Peak

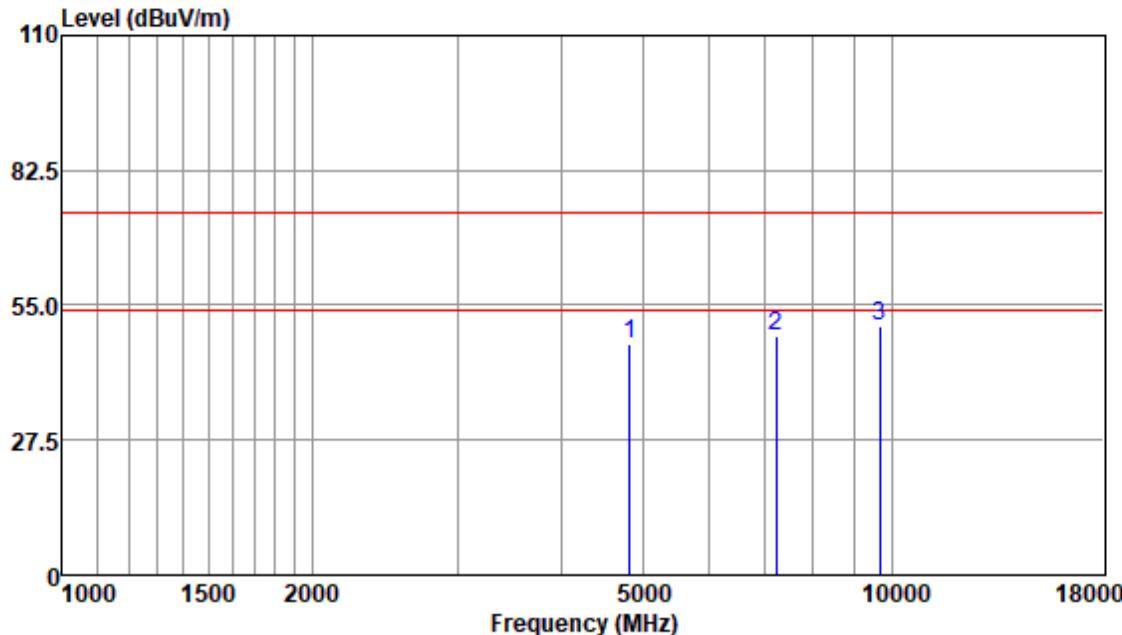
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4824.00	42.66	33.78	7.46	36.79	47.11	74.00	-26.89	Peak
7236.00	39.91	36.35	7.80	35.50	48.56	74.00	-25.44	Peak
9648.00	38.04	37.69	8.57	33.56	50.74	74.00	-23.26	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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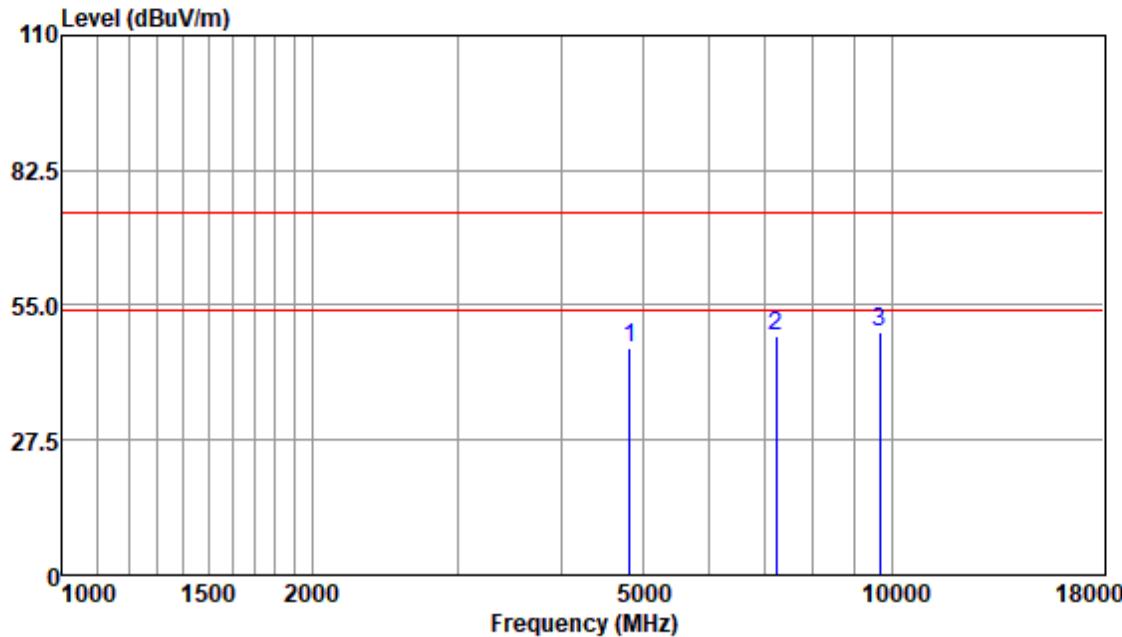
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4824.00	41.77	33.78	7.46	36.79	46.22	74.00	-27.78	Peak
7236.00	39.86	36.35	7.80	35.50	48.51	74.00	-25.49	Peak
9648.00	36.83	37.69	8.57	33.56	49.53	74.00	-24.47	Peak

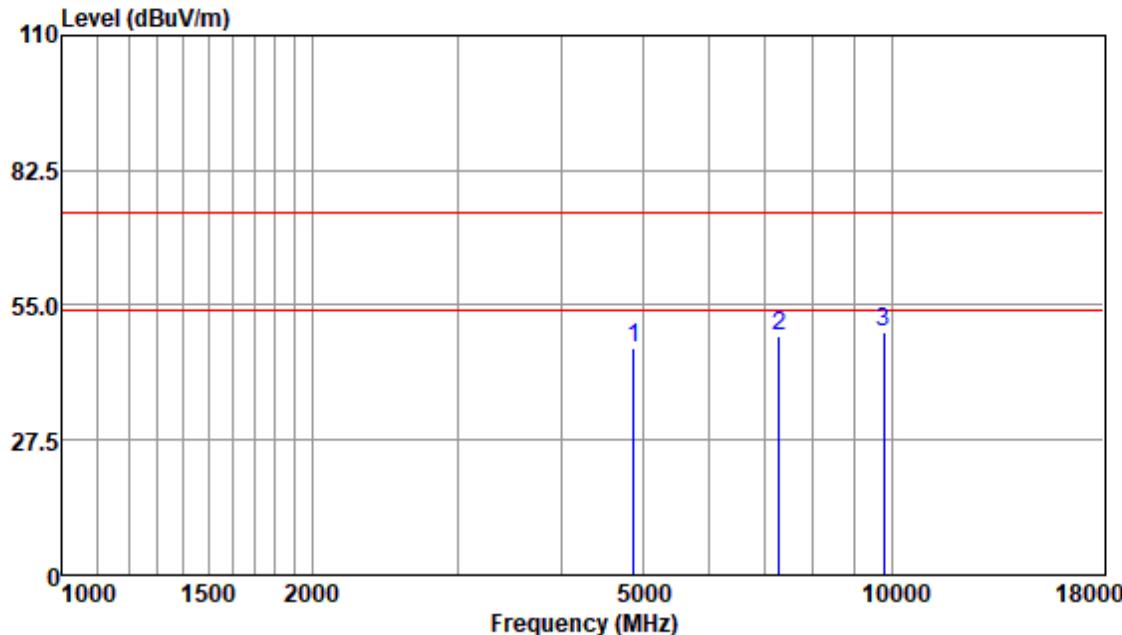
Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4874.00	41.56	33.93	7.46	36.81	46.14	74.00	-27.86	Peak
7311.00	39.71	36.47	7.82	35.44	48.56	74.00	-25.44	Peak
9748.00	36.58	37.68	8.57	33.50	49.33	74.00	-24.67	Peak

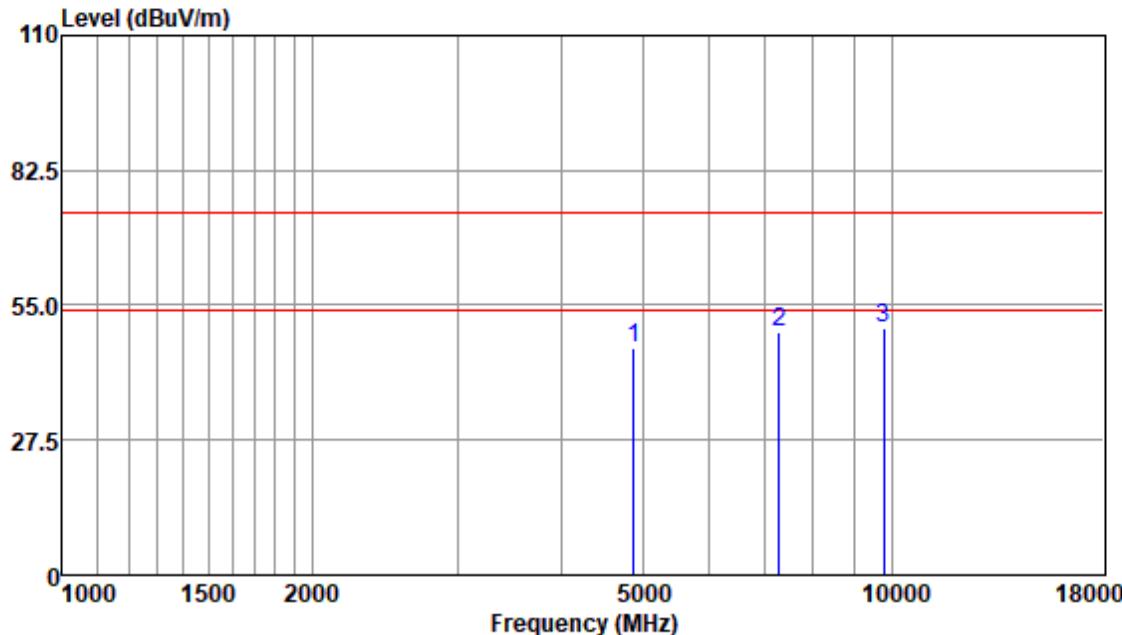
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	41.67	33.93	7.46	36.81	46.25	74.00	-27.75	Peak
7311.00	40.62	36.47	7.82	35.44	49.47	74.00	-24.53	Peak
9748.00	37.58	37.68	8.57	33.50	50.33	74.00	-23.67	Peak

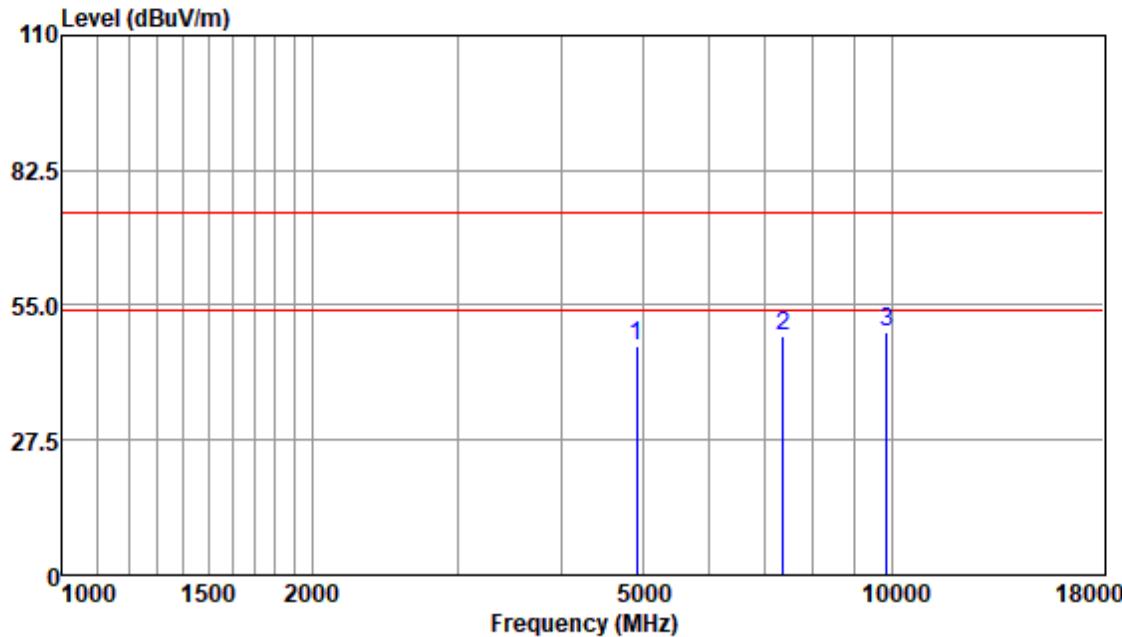
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4924.00	41.96	33.98	7.46	36.82	46.58	74.00	-27.42	Peak
7386.00	39.69	36.48	7.86	35.37	48.66	74.00	-25.34	Peak
9848.00	36.96	37.56	8.58	33.45	49.65	74.00	-24.35	Peak

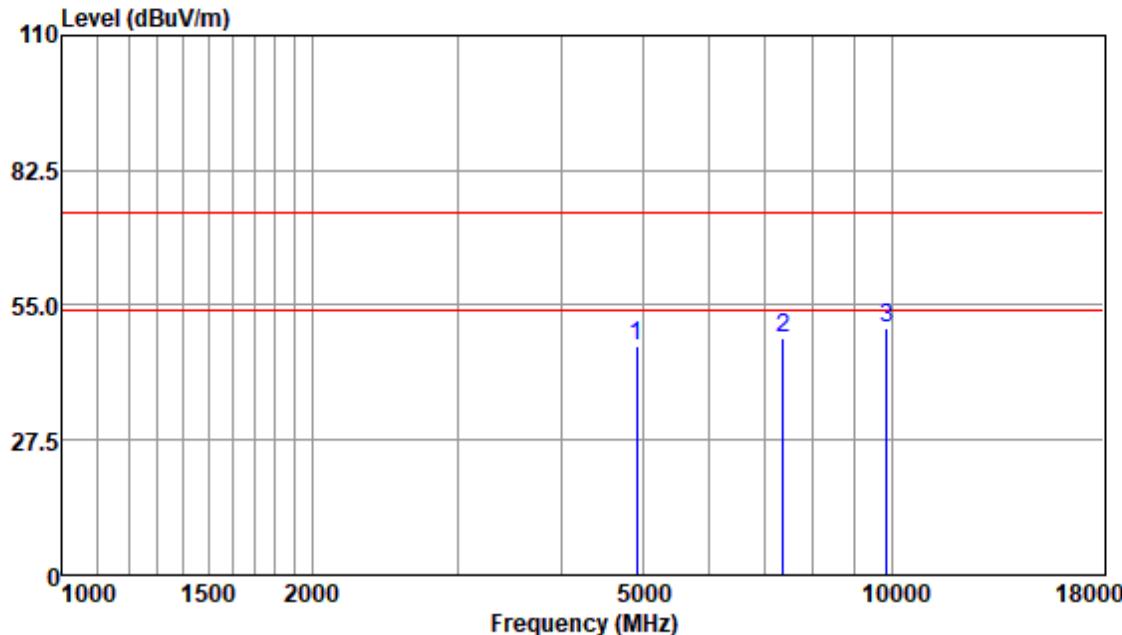
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	41.96	33.98	7.46	36.82	46.58	74.00	-27.42	Peak
7386.00	39.36	36.48	7.86	35.37	48.33	74.00	-25.67	Peak
9848.00	37.64	37.56	8.58	33.45	50.33	74.00	-23.67	Peak

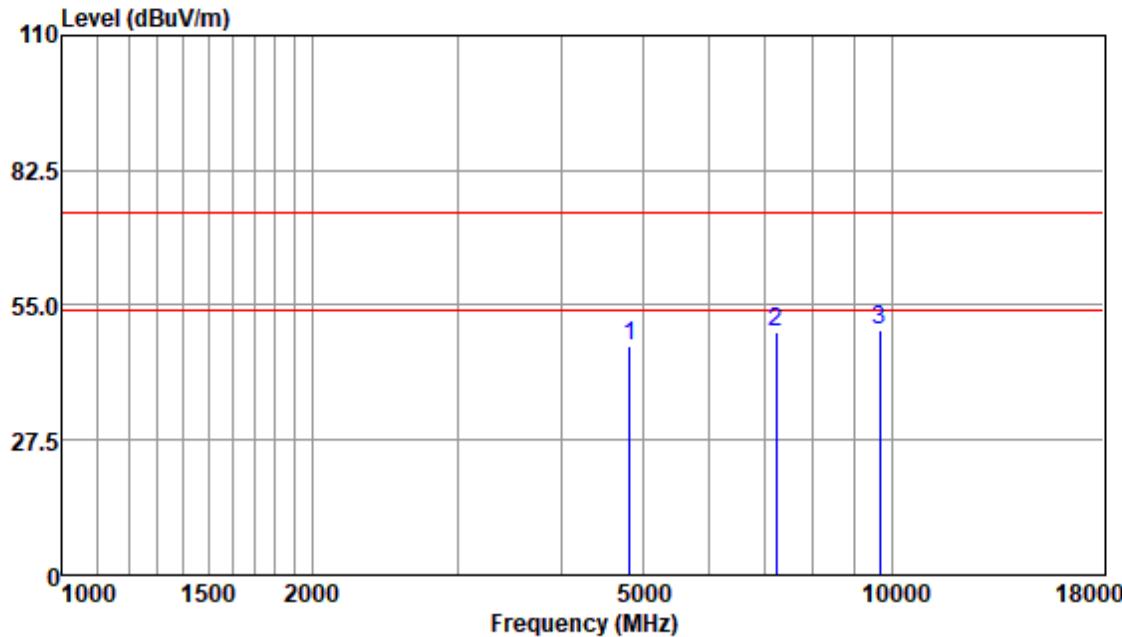
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	42.13	33.78	7.46	36.79	46.58	74.00	-27.42	Peak
7236.00	41.00	36.35	7.80	35.50	49.65	74.00	-24.35	Peak
9648.00	37.18	37.69	8.57	33.56	49.88	74.00	-24.12	Peak

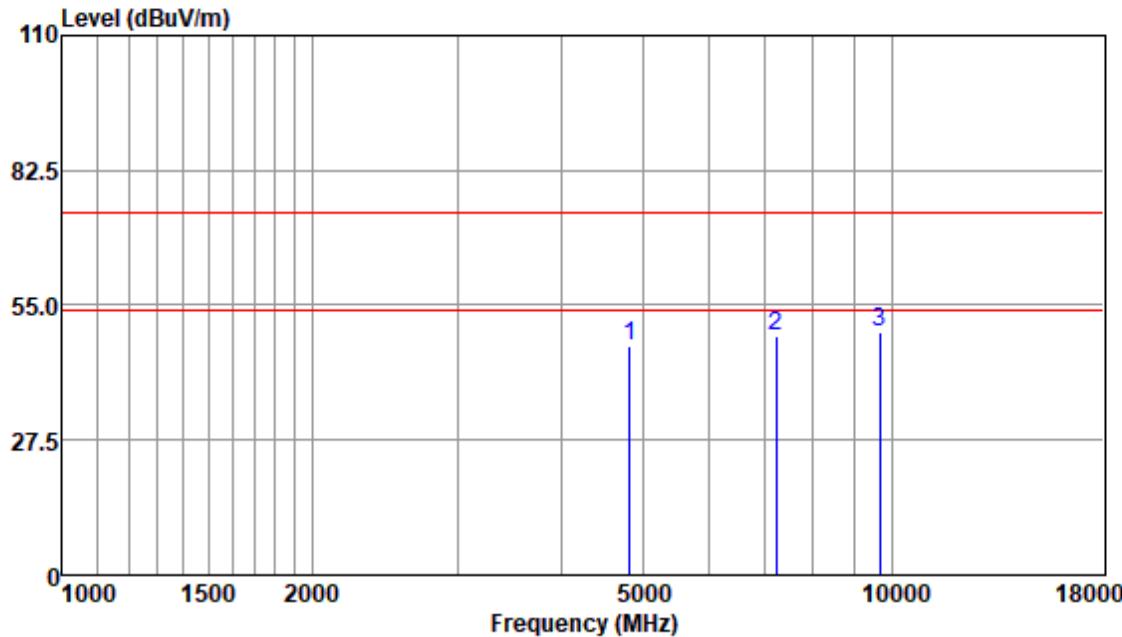
Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4824.00	42.39	33.78	7.46	36.79	46.84	74.00	-27.16	Peak
7236.00	40.01	36.35	7.80	35.50	48.66	74.00	-25.34	Peak
9648.00	36.96	37.69	8.57	33.56	49.66	74.00	-24.34	Peak

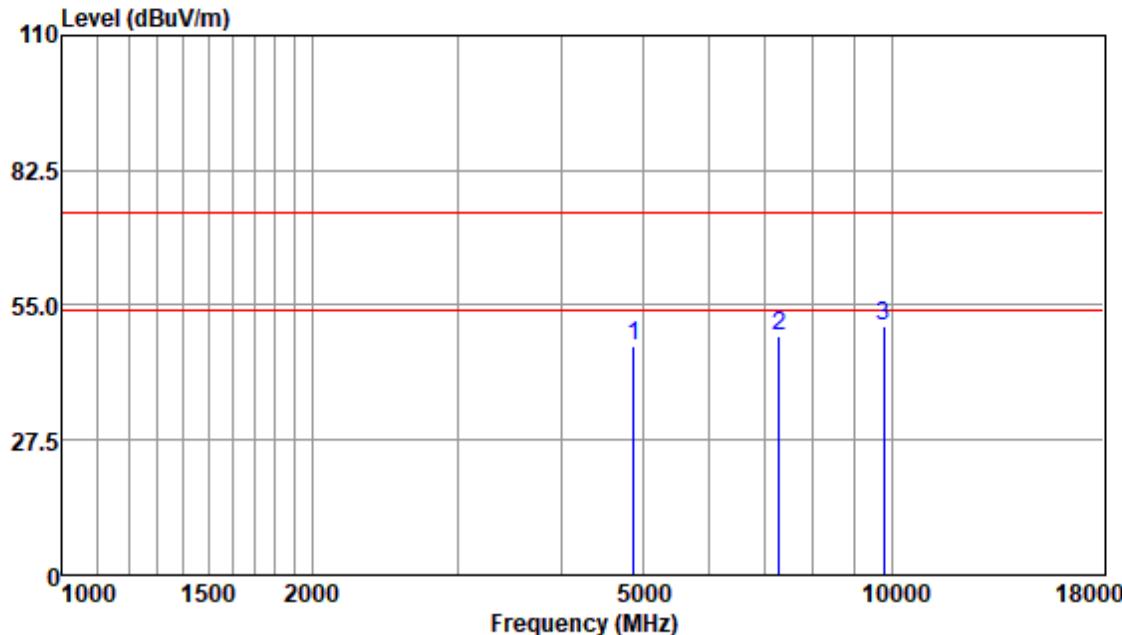
Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4874.00	42.08	33.93	7.46	36.81	46.66	74.00	-27.34	Peak
7311.00	39.66	36.47	7.82	35.44	48.51	74.00	-25.49	Peak
9748.00	37.90	37.68	8.57	33.50	50.65	74.00	-23.35	Peak

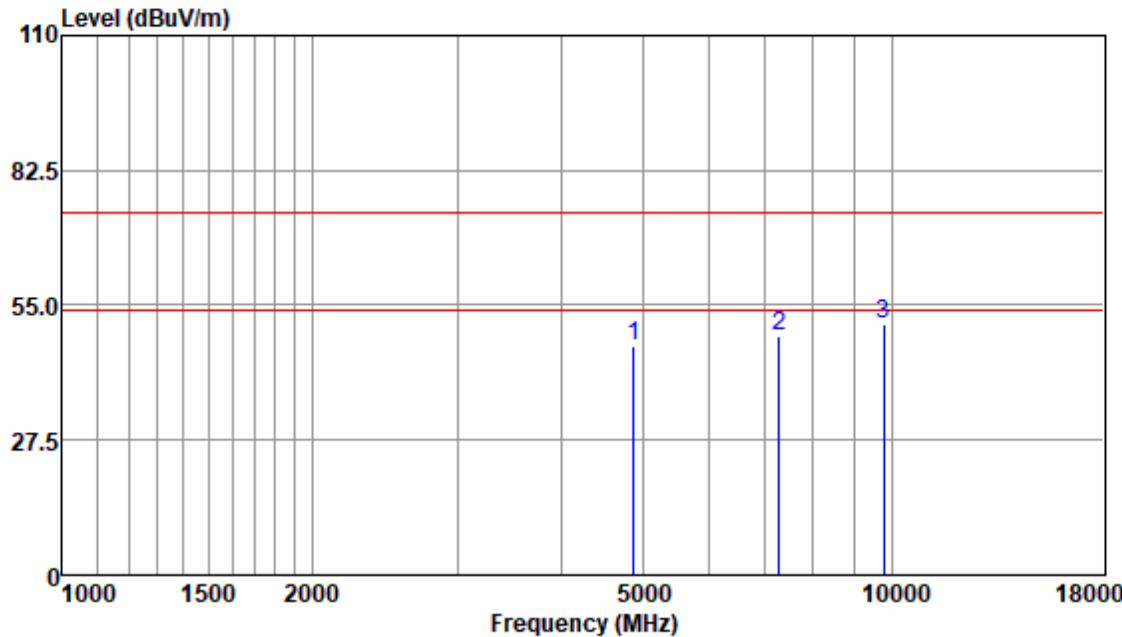
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4874.00	42.27	33.93	7.46	36.81	46.85	74.00	-27.15	Peak
7311.00	39.70	36.47	7.82	35.44	48.55	74.00	-25.45	Peak
9748.00	38.49	37.68	8.57	33.50	51.24	74.00	-22.76	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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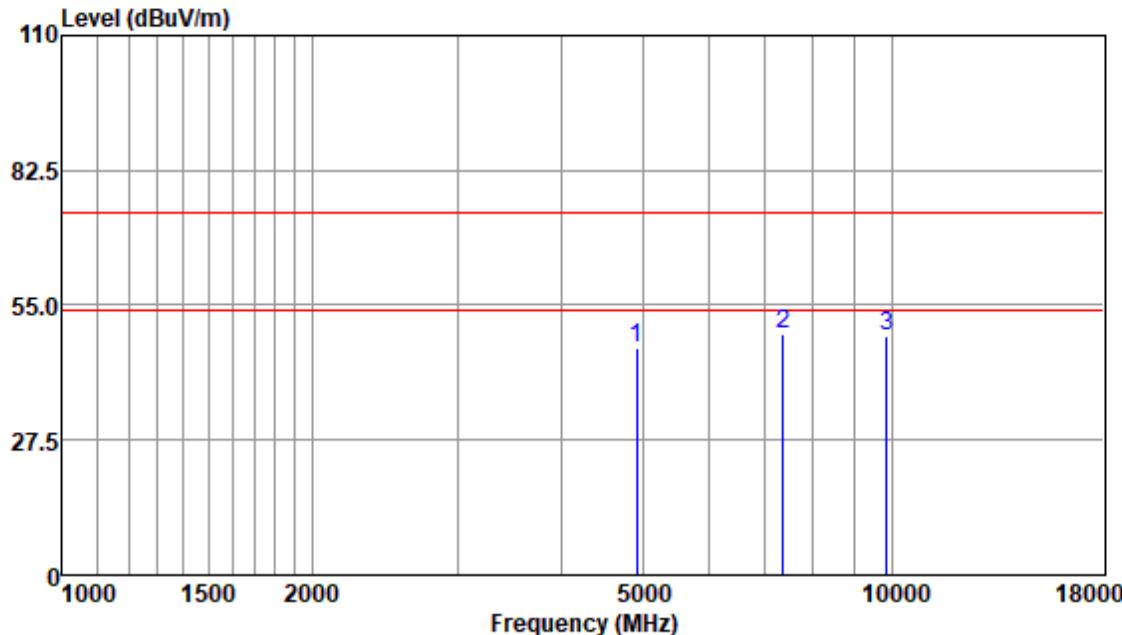
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4924.00	41.71	33.98	7.46	36.82	46.33	74.00	-27.67	Peak
7386.00	40.02	36.48	7.86	35.37	48.99	74.00	-25.01	Peak
9848.00	35.96	37.56	8.58	33.45	48.65	74.00	-25.35	Peak

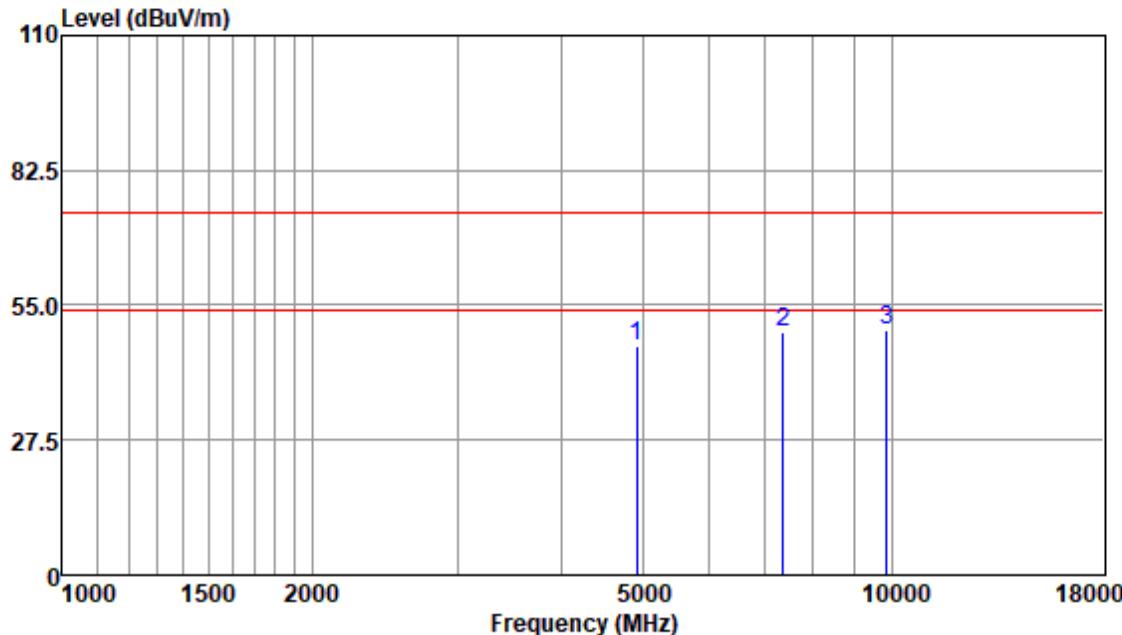
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	42.22	33.98	7.46	36.82	46.84	74.00	-27.16	Peak
7386.00	40.61	36.48	7.86	35.37	49.58	74.00	-24.42	Peak
9848.00	37.18	37.56	8.58	33.45	49.87	74.00	-24.13	Peak

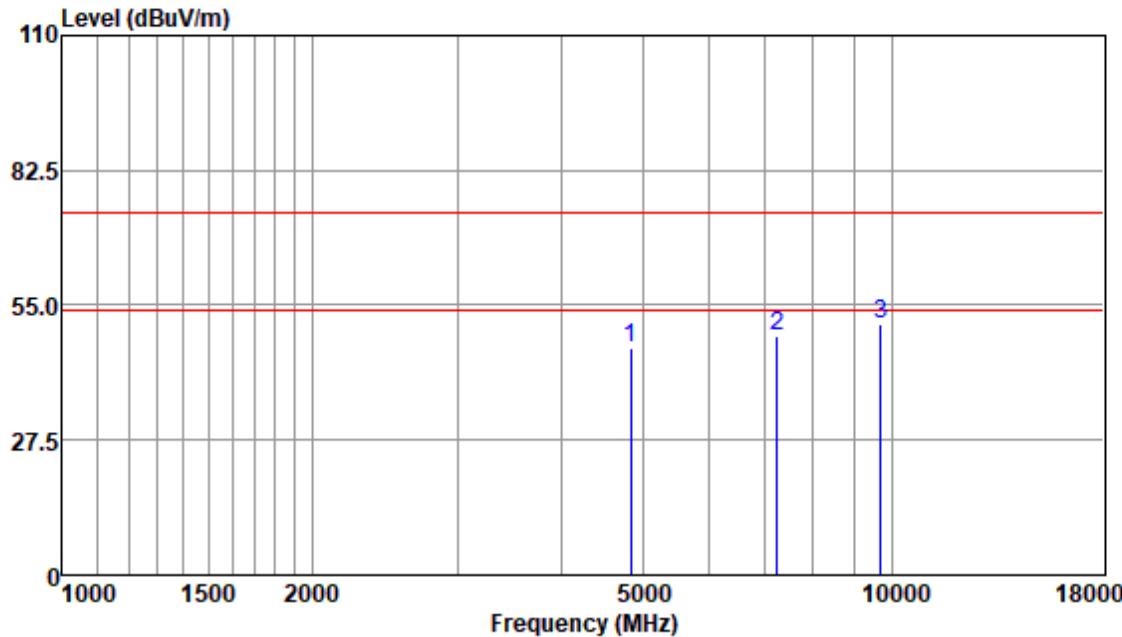
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4844.00	41.62	33.89	7.46	36.80	46.17	74.00	-27.83	Peak
7266.00	39.81	36.39	7.80	35.48	48.52	74.00	-25.48	Peak
9688.00	38.39	37.79	8.57	33.53	51.22	74.00	-22.78	Peak

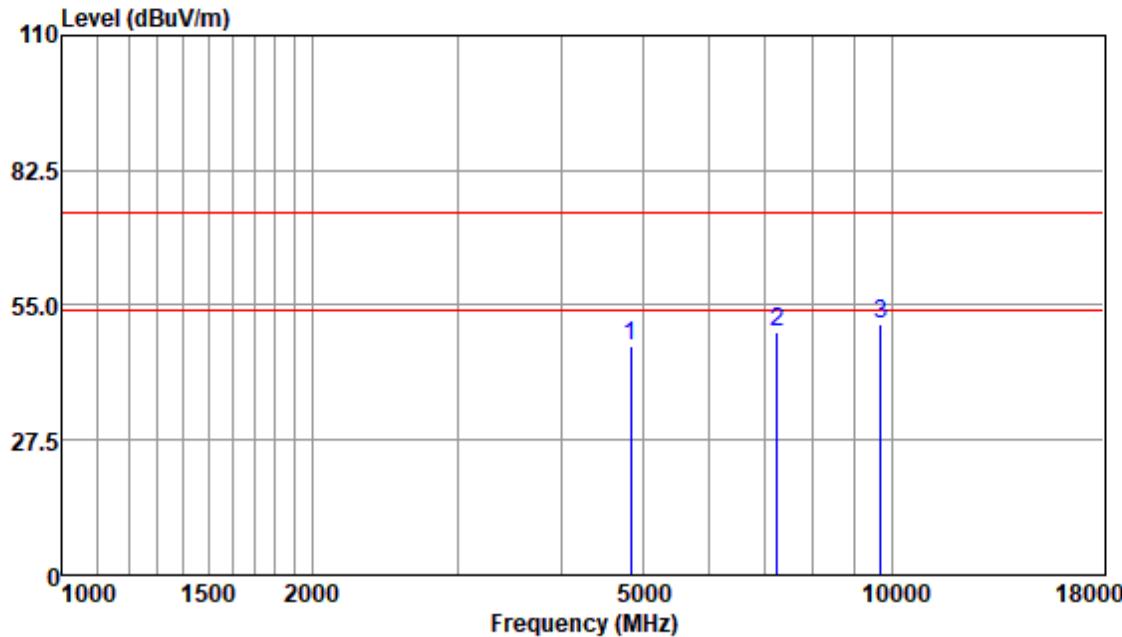
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4844.00	42.03	33.89	7.46	36.80	46.58	74.00	-27.42	Peak
7266.00	40.83	36.39	7.80	35.48	49.54	74.00	-24.46	Peak
9688.00	38.40	37.79	8.57	33.53	51.23	74.00	-22.77	Peak

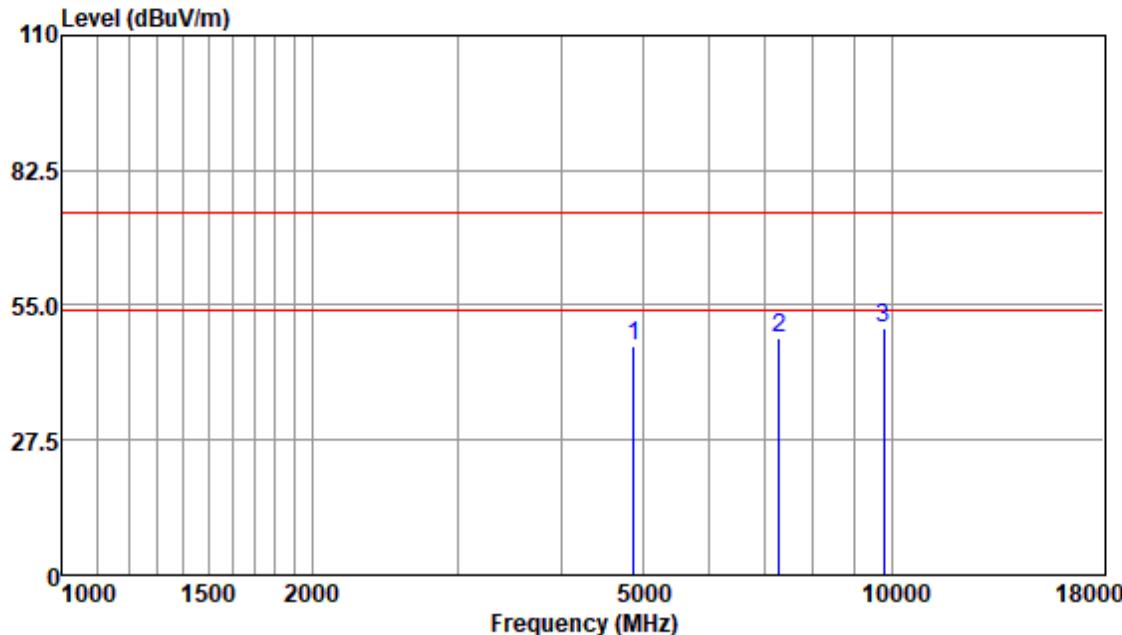
Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	42.29	33.93	7.46	36.81	46.87	74.00	-27.13	Peak
7311.00	39.26	36.47	7.82	35.44	48.11	74.00	-25.89	Peak
9748.00	37.50	37.68	8.57	33.50	50.25	74.00	-23.75	Peak

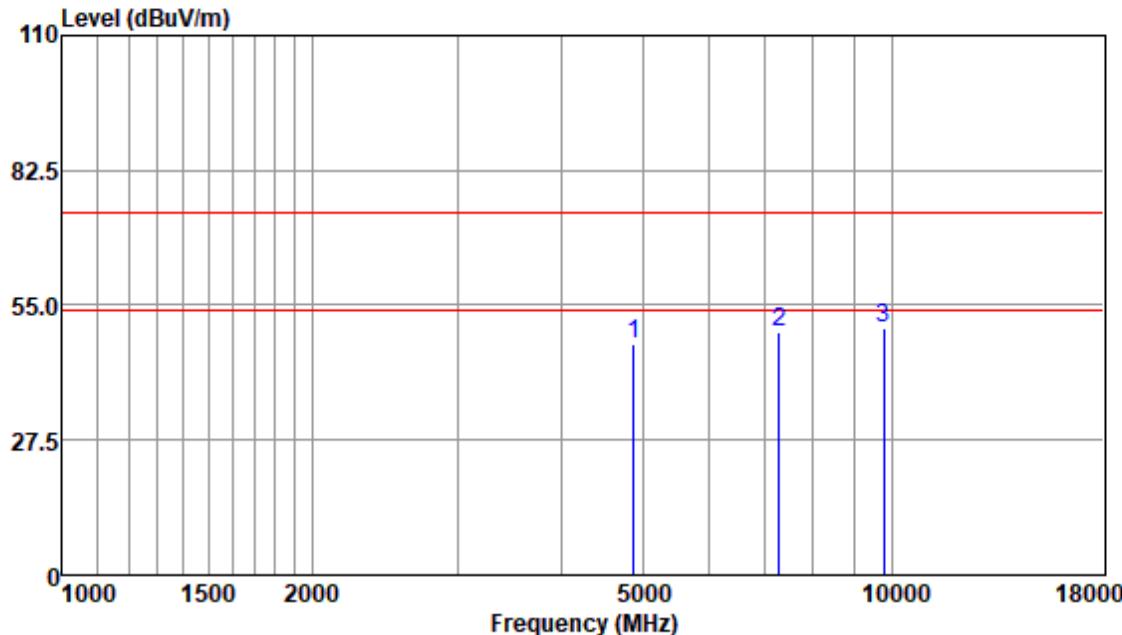
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4874.00	42.66	33.93	7.46	36.81	47.24	74.00	-26.76	Peak
7311.00	40.66	36.47	7.82	35.44	49.51	74.00	-24.49	Peak
9748.00	37.50	37.68	8.57	33.50	50.25	74.00	-23.75	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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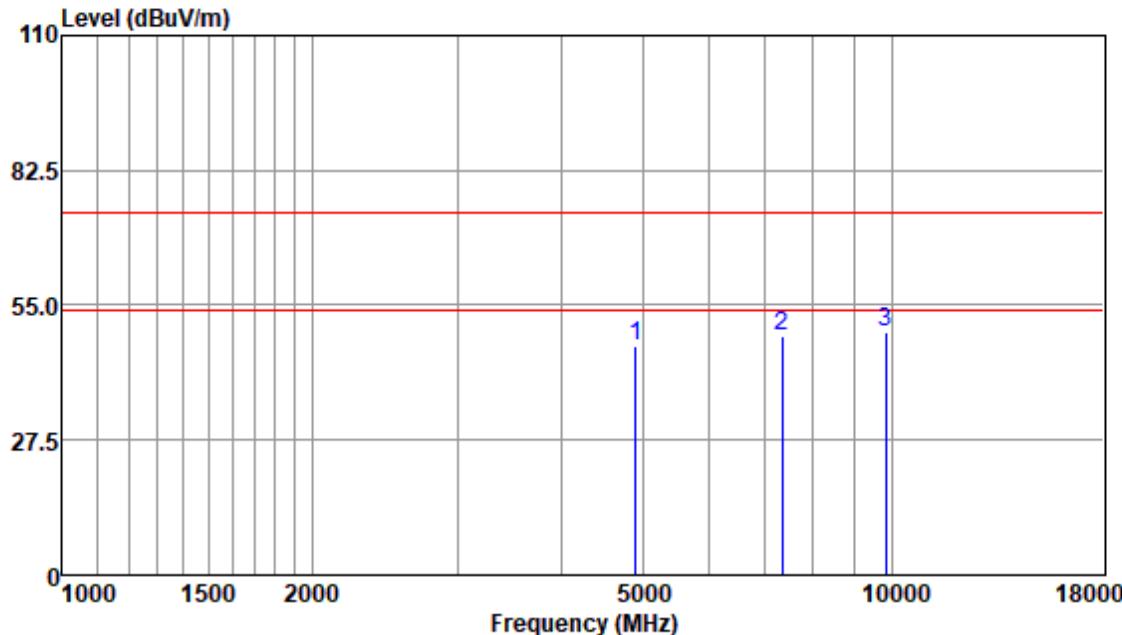
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4904.00	42.25	33.97	7.46	36.81	46.87	74.00	-27.13	Peak
7356.00	39.61	36.47	7.84	35.41	48.51	74.00	-25.49	Peak
9808.00	36.90	37.55	8.57	33.47	49.55	74.00	-24.45	Peak

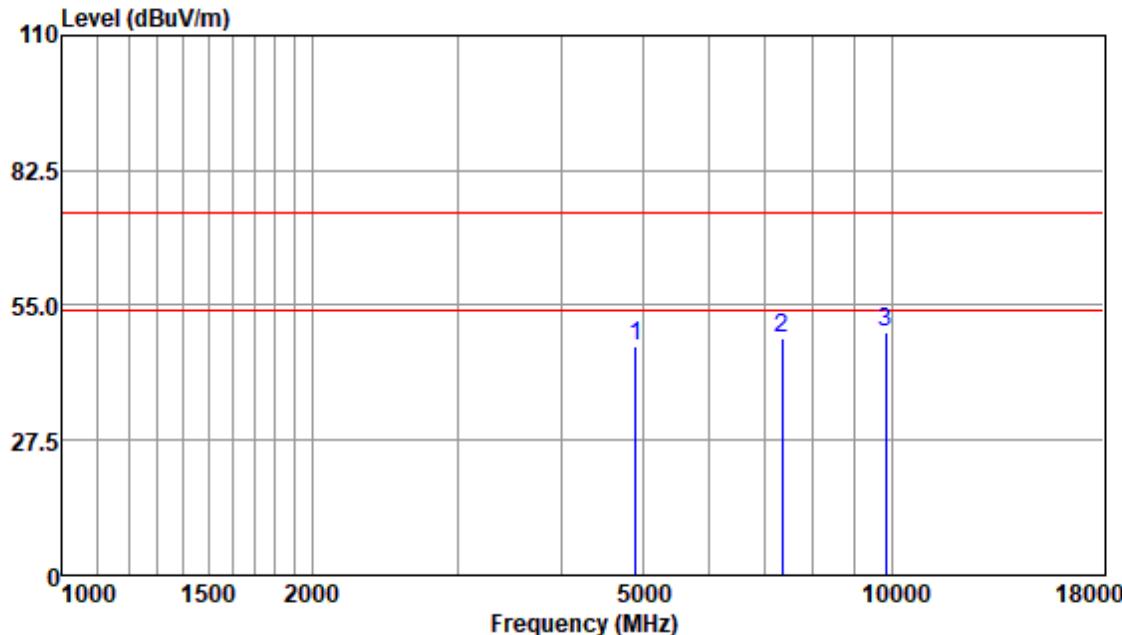
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Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4904.00	41.96	33.97	7.46	36.81	46.58	74.00	-27.42	Peak
7356.00	39.57	36.47	7.84	35.41	48.47	74.00	-25.53	Peak
9808.00	36.92	37.55	8.57	33.47	49.57	74.00	-24.43	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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8 Test Setup Photographs

Refer to the < Test Setup photos >.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

10 Appendix

10.1 Appendix A: DTS Bandwidth

10.1.1 Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	≥ 0.5	PASS
		2437	9.040	2432.480	2441.520	≥ 0.5	PASS
		2462	8.600	2457.480	2466.080	≥ 0.5	PASS
11G	Ant1	2412	16.520	2403.760	2420.280	≥ 0.5	PASS
		2437	16.560	2428.720	2445.280	≥ 0.5	PASS
		2462	16.480	2453.760	2470.240	≥ 0.5	PASS
11N20SISO	Ant1	2412	17.760	2403.120	2420.880	≥ 0.5	PASS
		2437	17.800	2428.120	2445.920	≥ 0.5	PASS
		2462	17.720	2453.120	2470.840	≥ 0.5	PASS
11N40SISO	Ant1	2422	36.480	2403.760	2440.240	0.5	PASS
		2437	36.480	2418.760	2455.240	0.5	PASS
		2452	36.400	2433.760	2470.160	0.5	PASS

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10.1.2 Test Graphs



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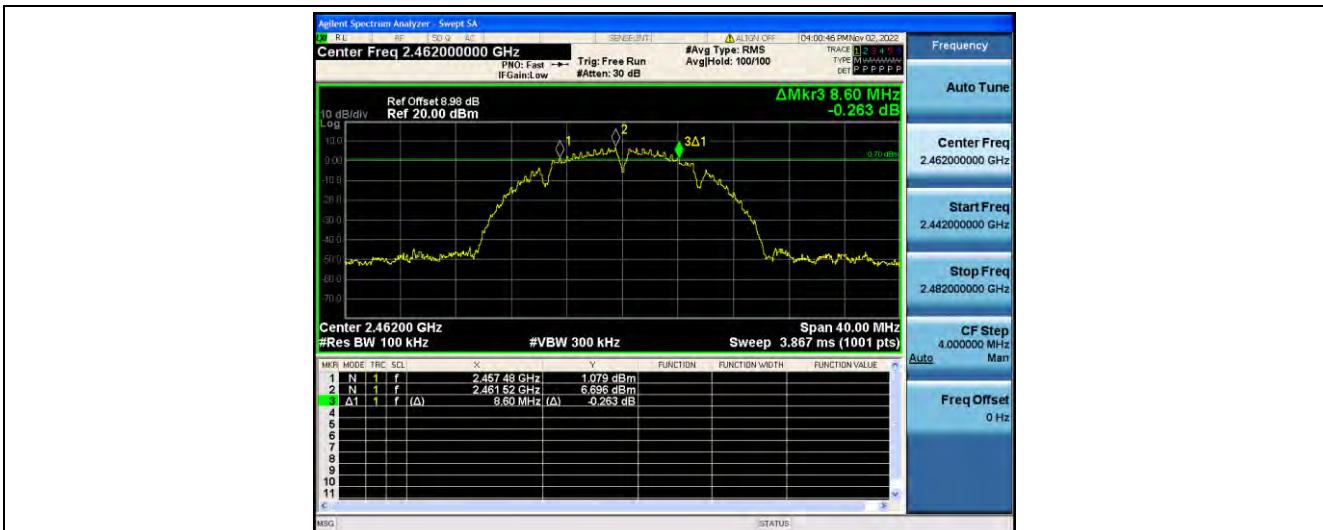


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11G_Ant1_2412



11G_Ant1_2437

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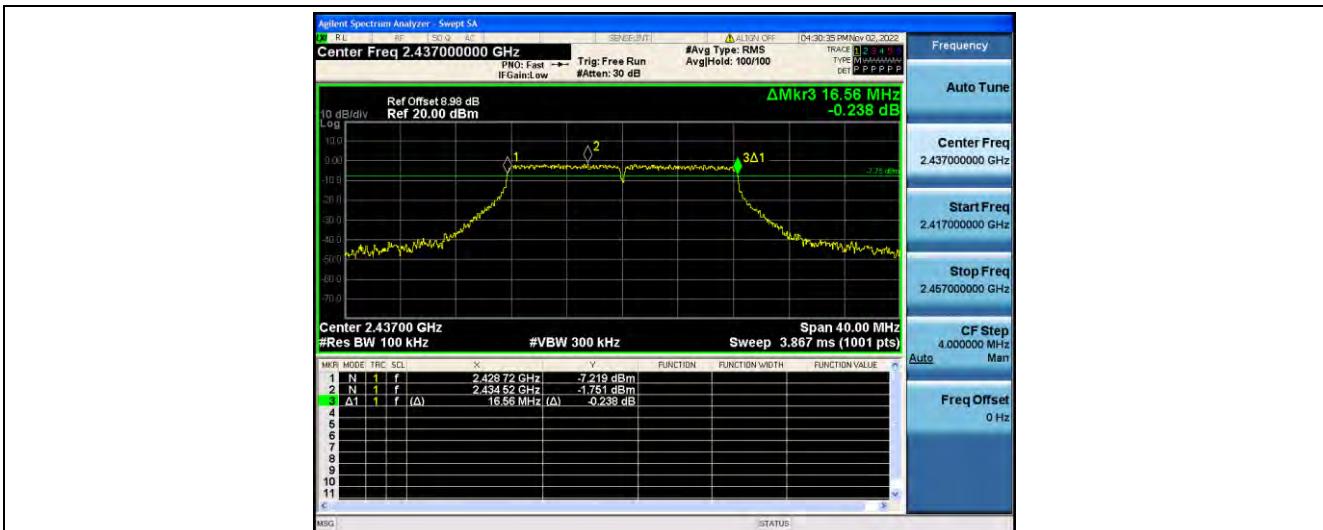


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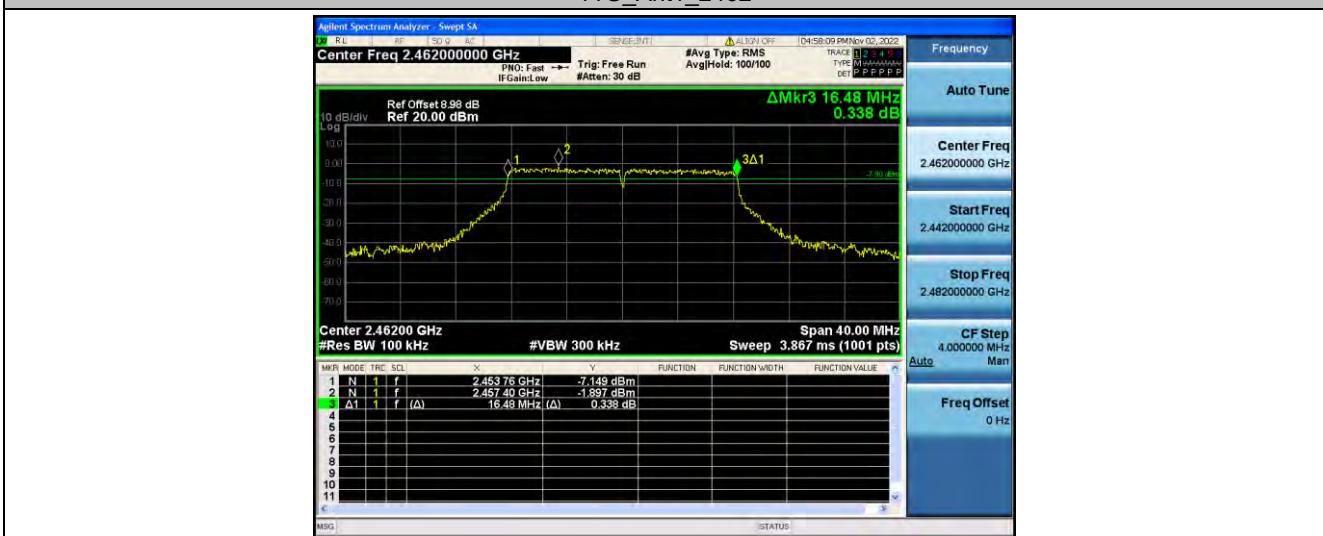
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11G_Ant1_2462



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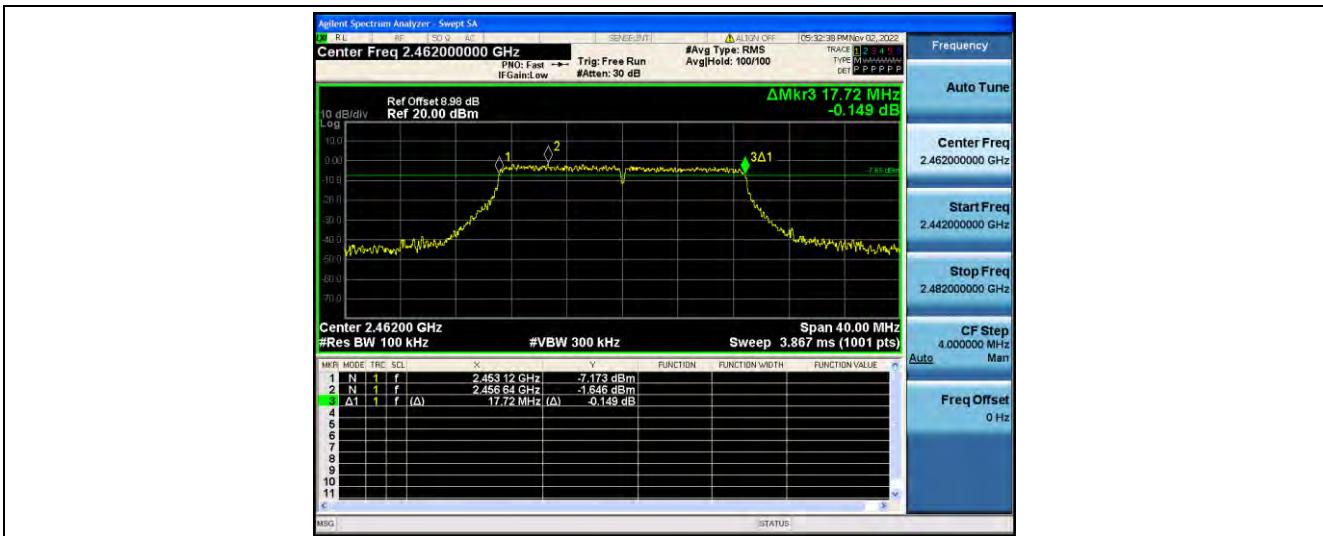


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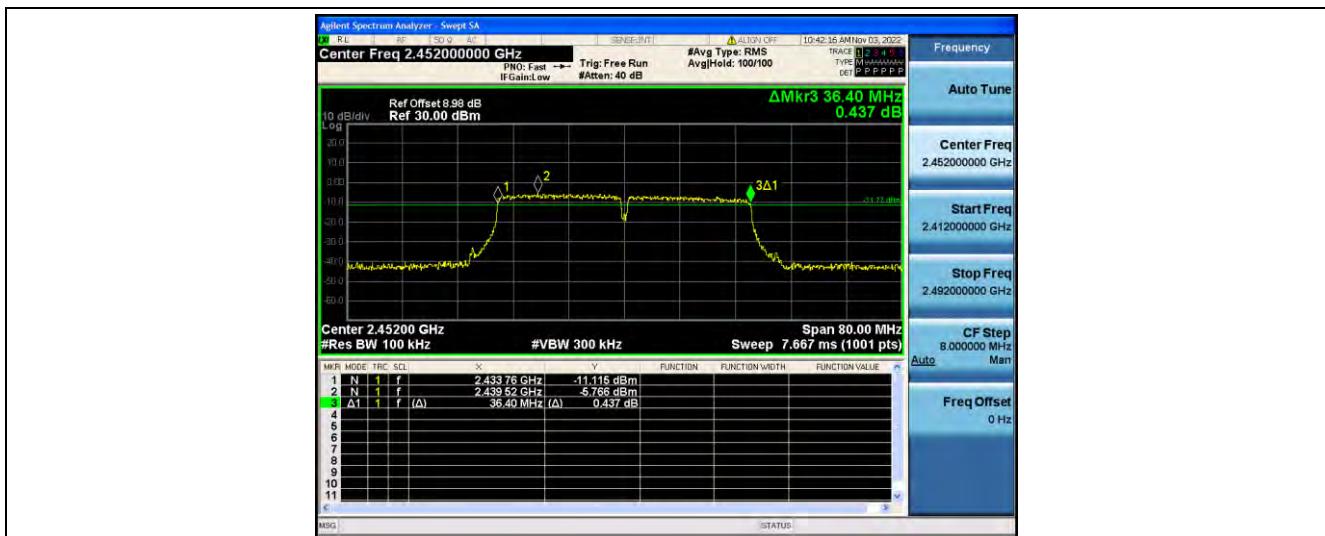
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10.2 Appendix B: Occupied Channel Bandwidth**10.2.1 Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.402	2405.2930	2418.6950	---	---
		2437	13.615	2430.1673	2443.7823	---	---
		2462	13.386	2455.1516	2468.5376	---	---
11G	Ant1	2412	16.811	2403.5106	2420.3216	---	---
		2437	16.741	2428.5956	2445.3366	---	---
		2462	16.783	2453.5152	2470.2982	---	---
11N20SISO	Ant1	2412	17.858	2403.0449	2420.9029	---	---
		2437	17.827	2428.0886	2445.9156	---	---
		2462	17.866	2453.0223	2470.8883	---	---
11N40SISO	Ant1	2422	36.559	2403.6533	2440.2123	---	---
		2437	36.515	2418.7004	2455.2154	---	---
		2452	36.495	2433.6451	2470.1401	---	---

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10.2.2 Test Graphs



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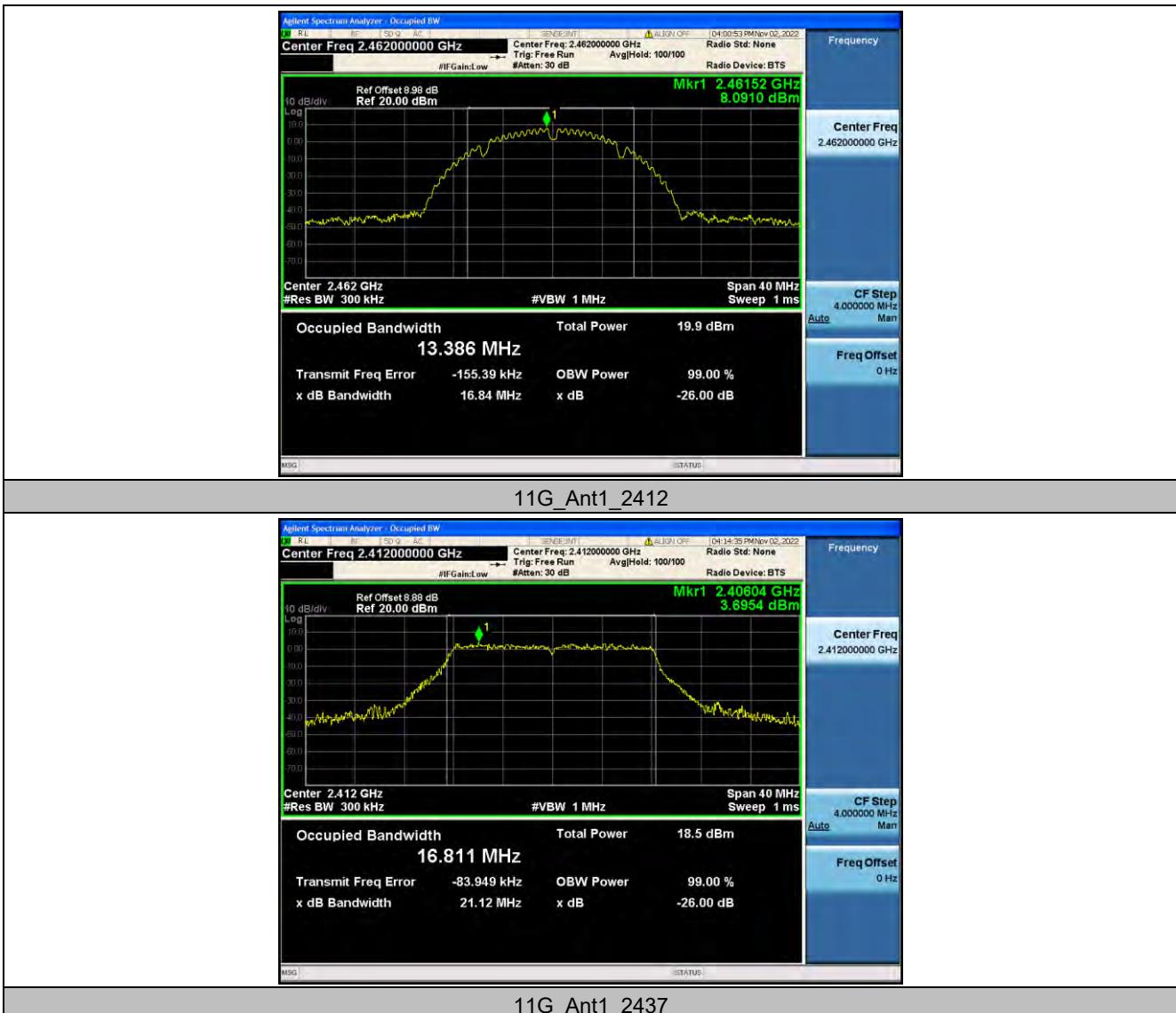


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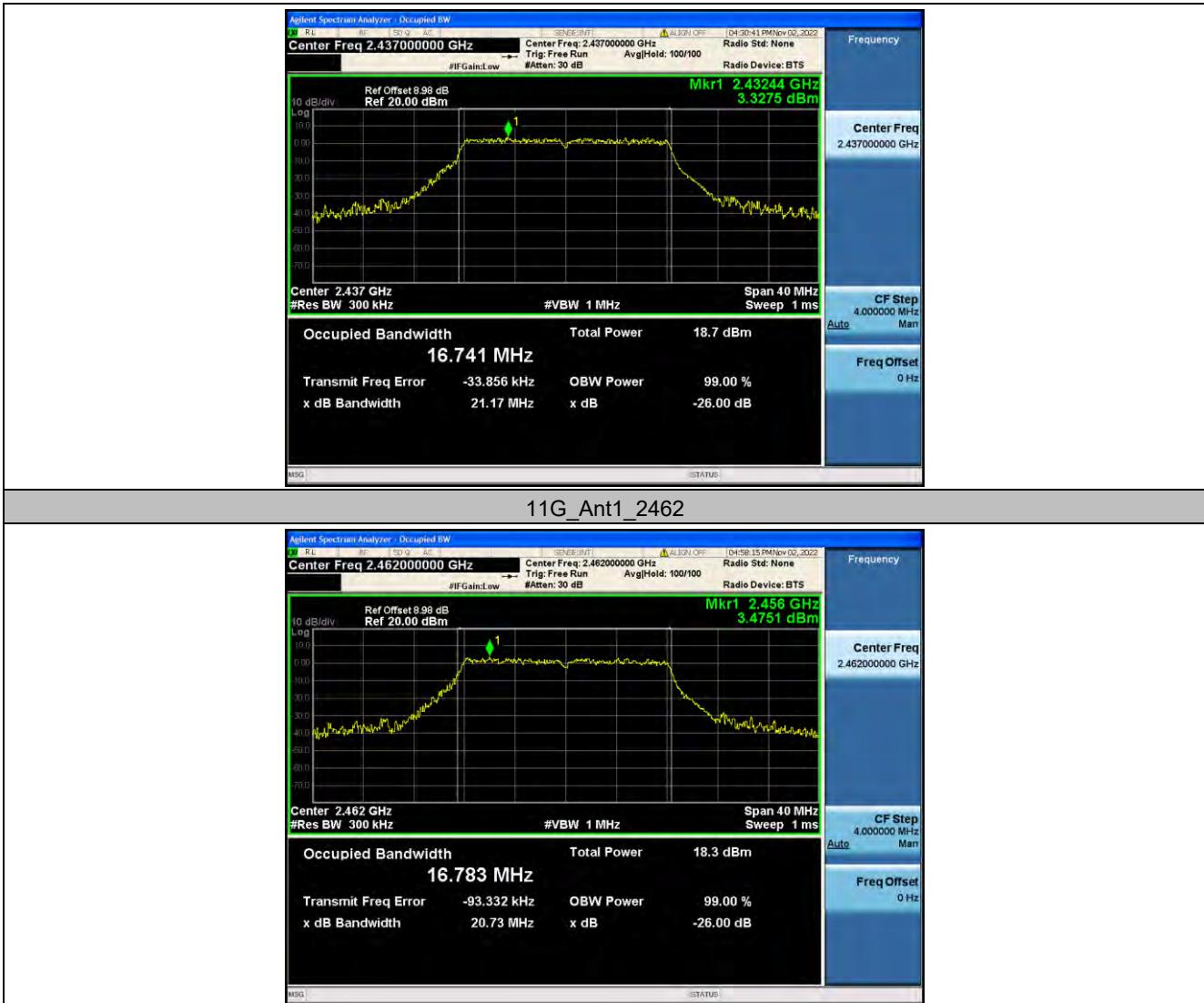
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10.3 Appendix C: Maximum conducted output power

10.3.1 Test Result

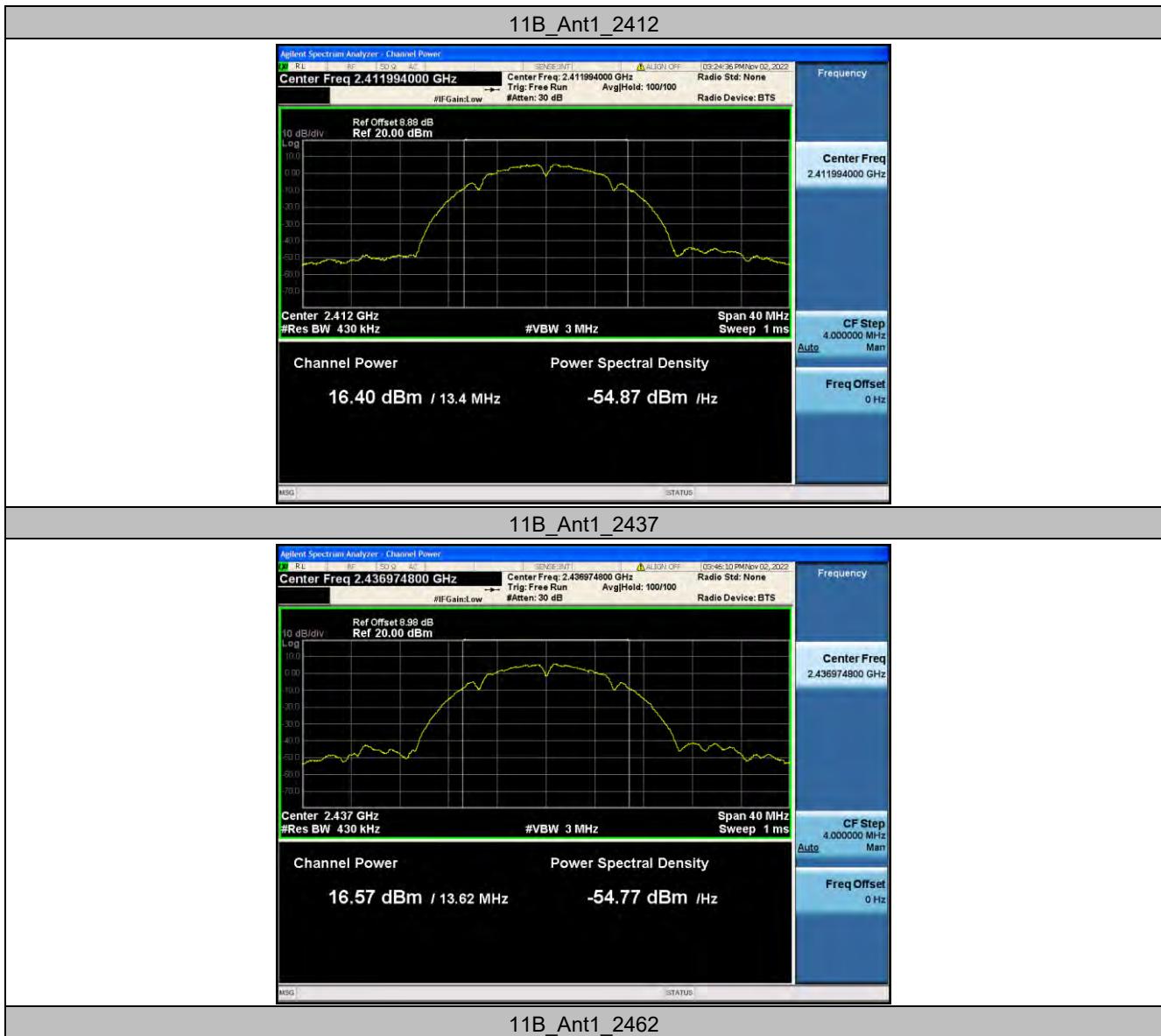
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.40	≤30.00	PASS
		2437	16.57	≤30.00	PASS
		2462	15.93	≤30.00	PASS
11G	Ant1	2412	12.54	≤30.00	PASS
		2437	12.73	≤30.00	PASS
		2462	12.24	≤30.00	PASS
11N20SISO	Ant1	2412	12.49	≤30.00	PASS
		2437	12.77	≤30.00	PASS
		2462	12.26	≤30.00	PASS
11N40SISO	Ant1	2422	11.05	≤30.00	PASS
		2437	11.22	≤30.00	PASS
		2452	11.31	≤30.00	PASS

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10.3.2 Test Graphs



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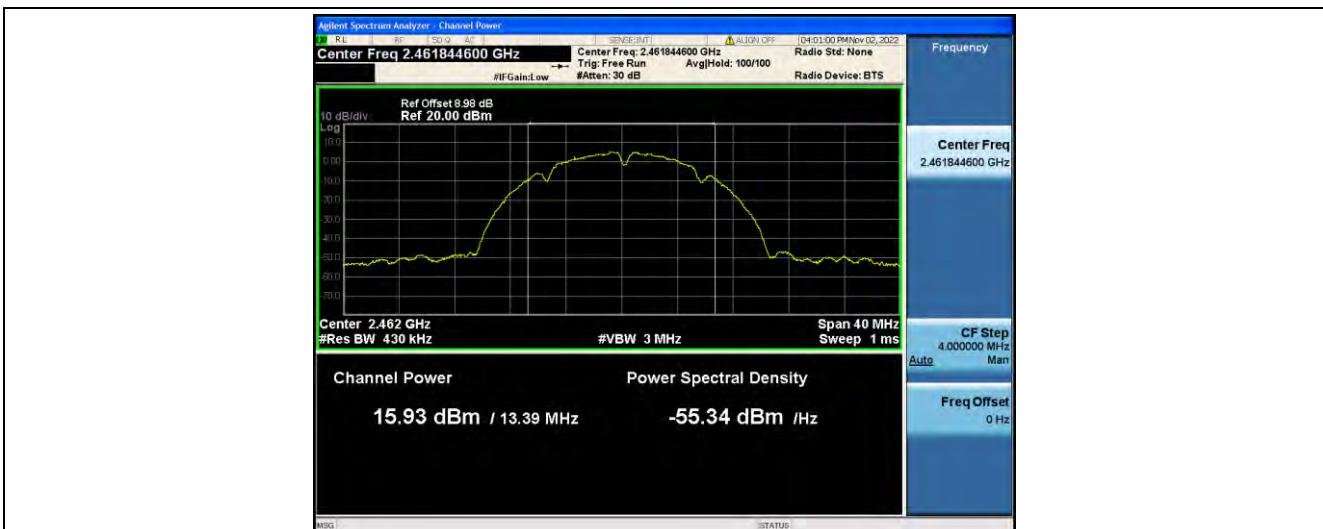


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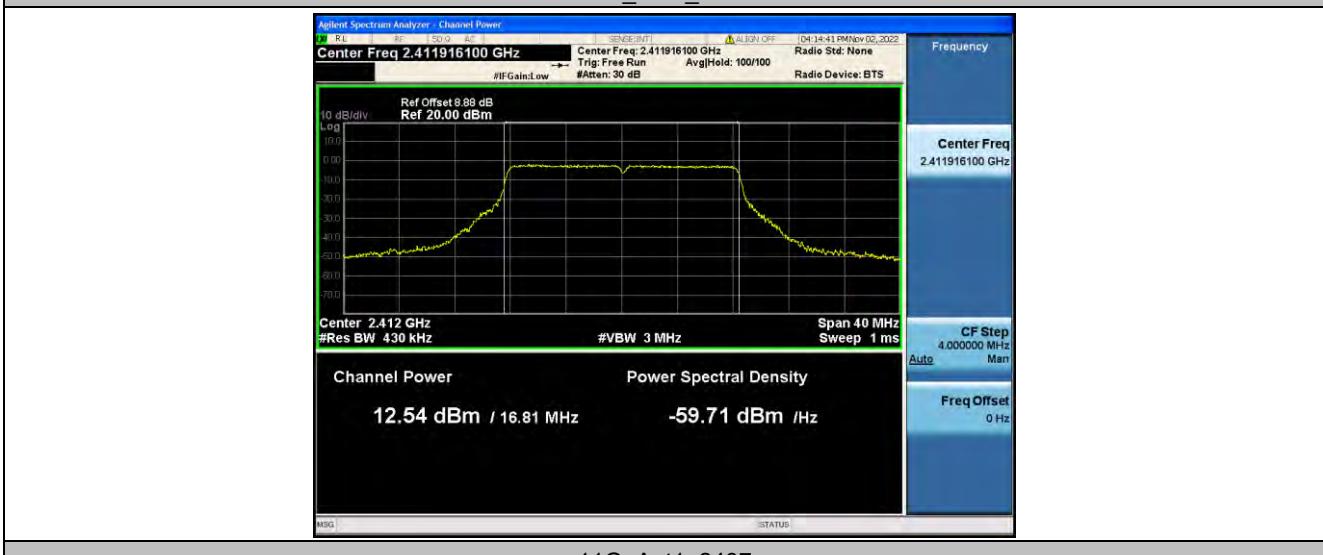
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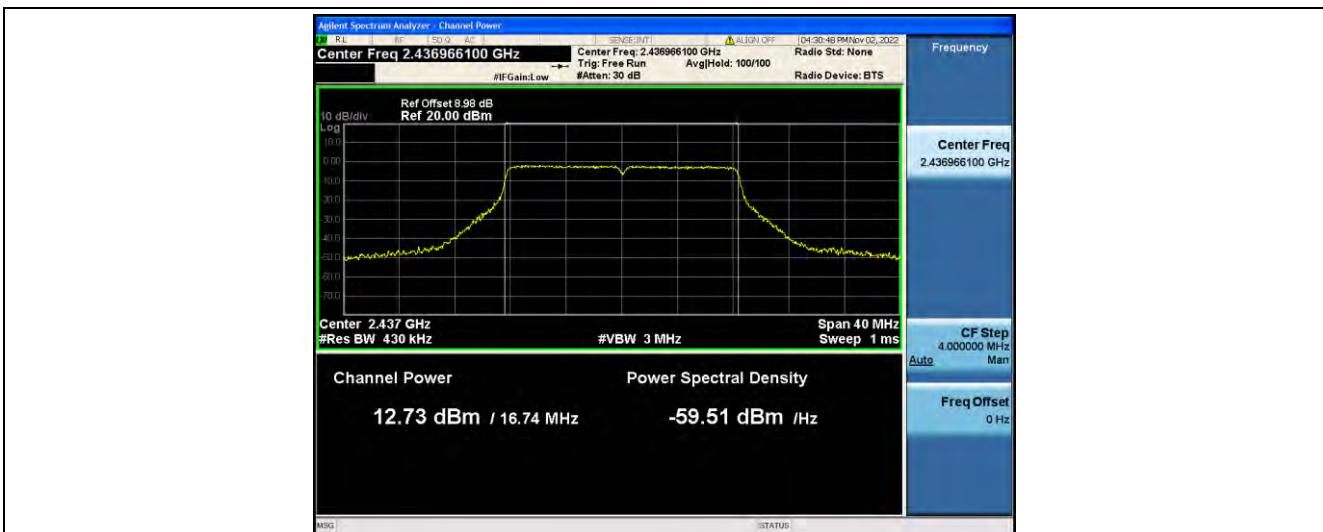
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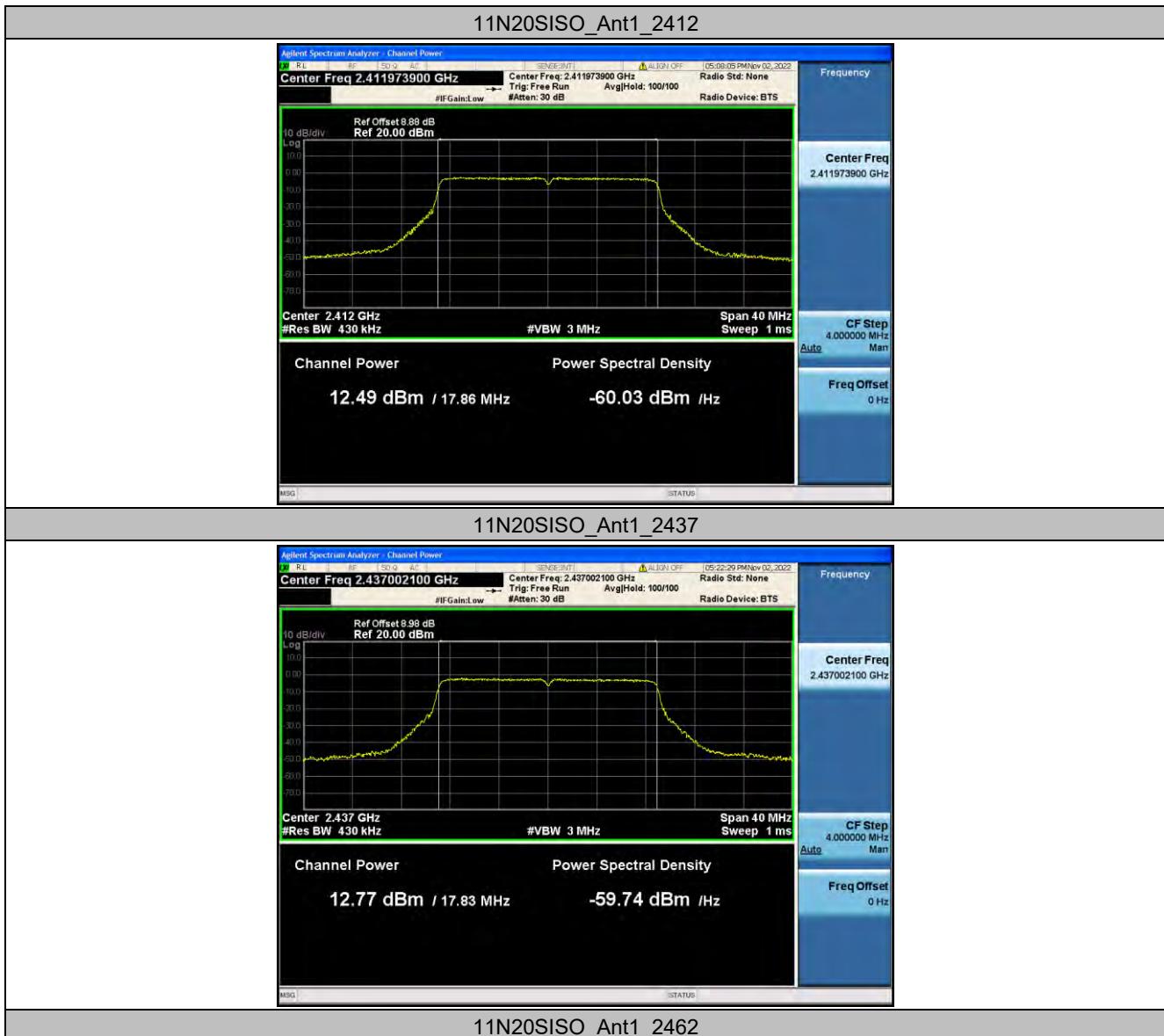
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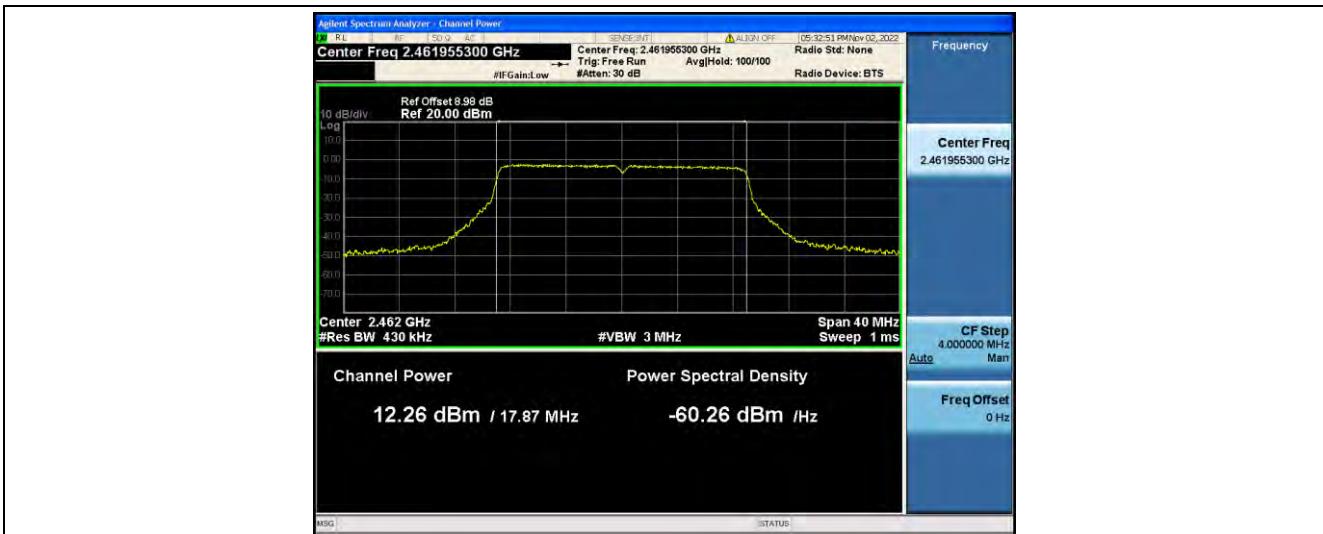
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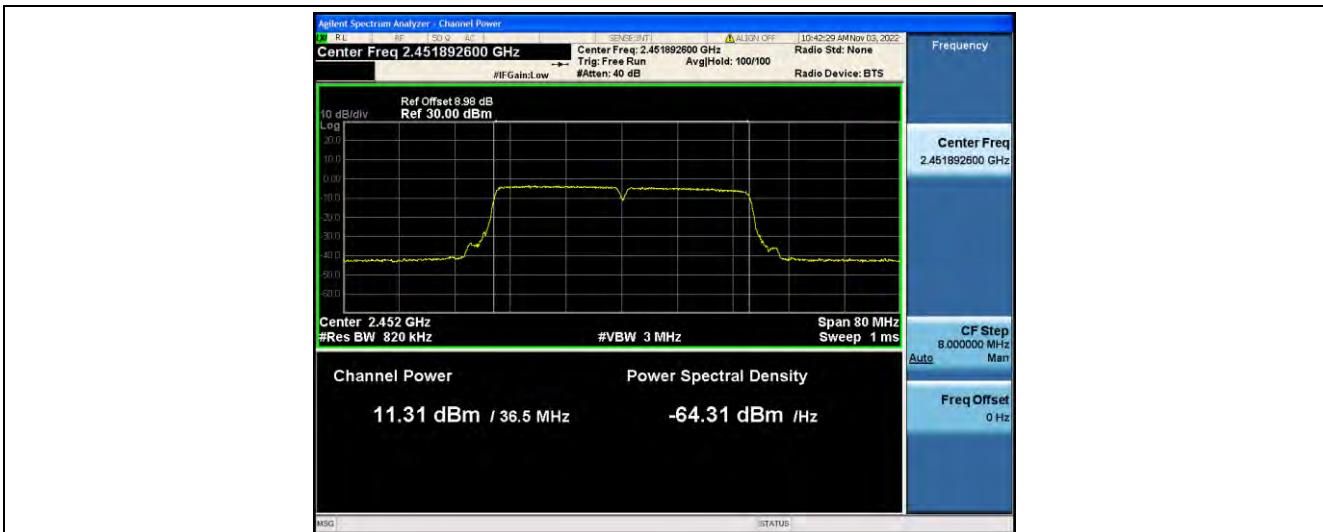


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10.4 Appendix D: Maximum power spectral density

10.4.1 Test Result

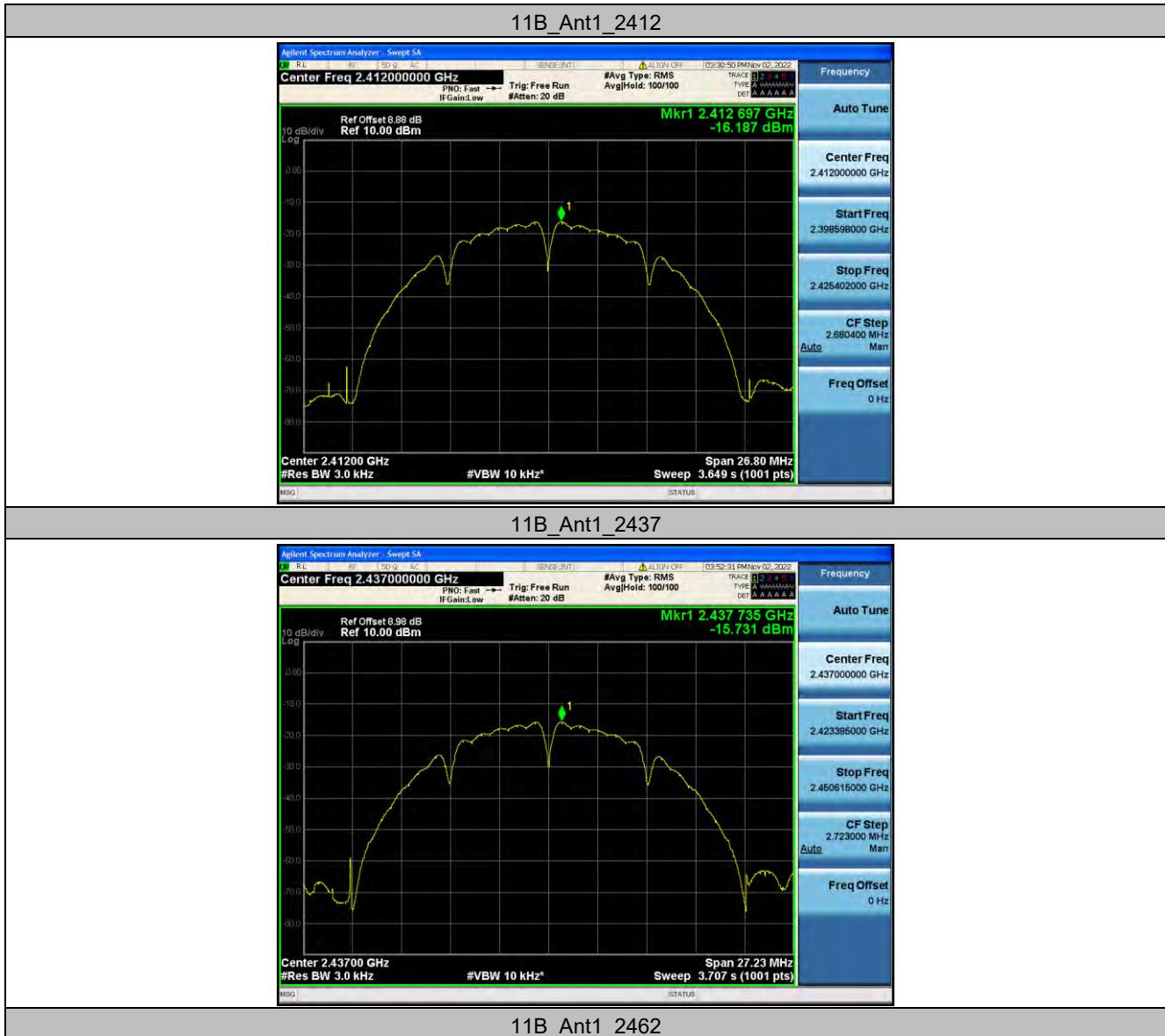
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.19	≤8.00	PASS
		2437	-15.73	≤8.00	PASS
		2462	-16.21	≤8.00	PASS
11G	Ant1	2412	-22.11	≤8.00	PASS
		2437	-22.03	≤8.00	PASS
		2462	-22.31	≤8.00	PASS
11N20SISO	Ant1	2412	-22.43	≤8.00	PASS
		2437	-22.31	≤8.00	PASS
		2462	-22.54	≤8.00	PASS
11N40SISO	Ant1	2422	-27.38	≤8.00	PASS
		2437	-27.12	≤8.00	PASS
		2452	-26.67	≤8.00	PASS

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10.4.2 Test Graphs



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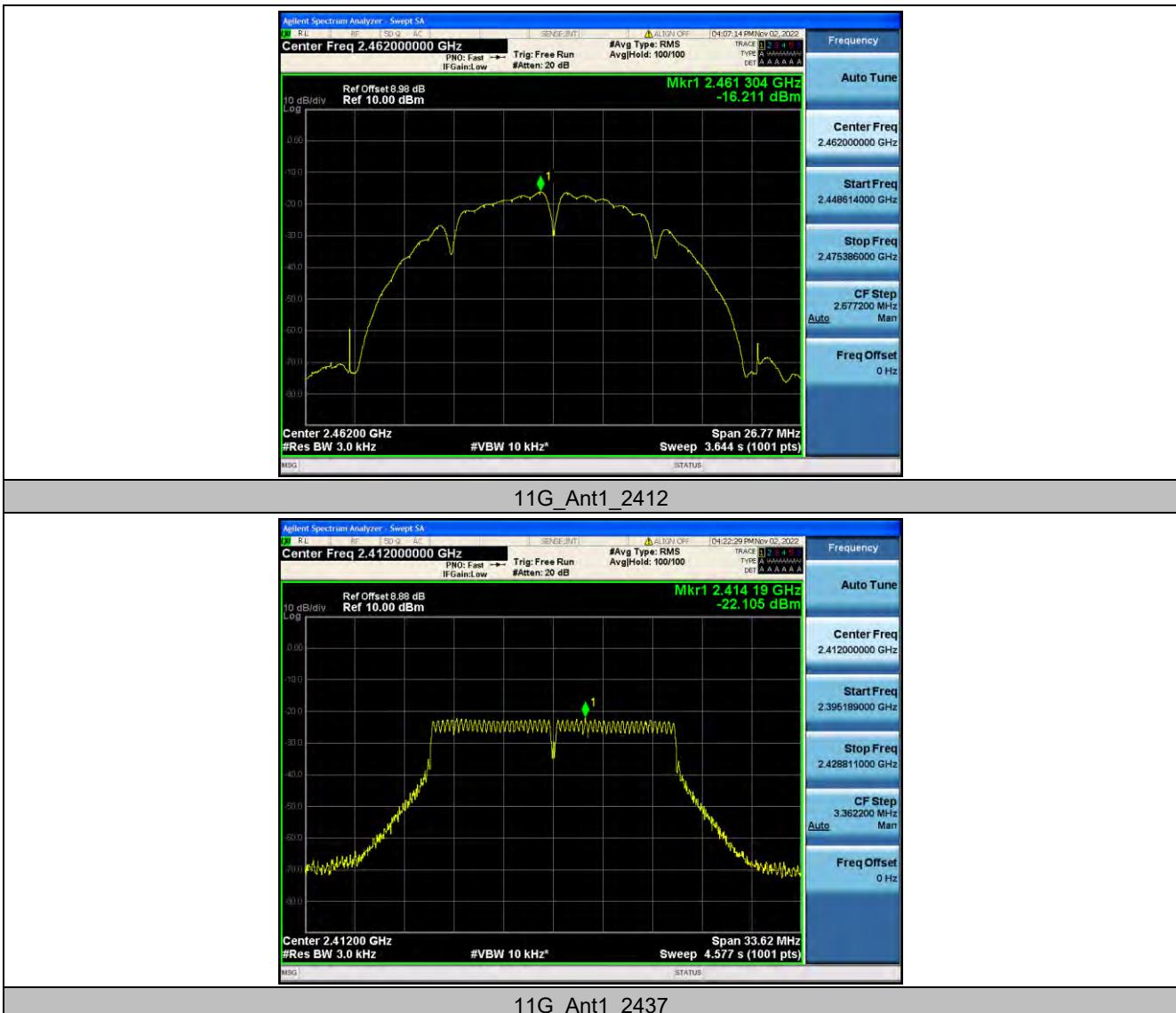


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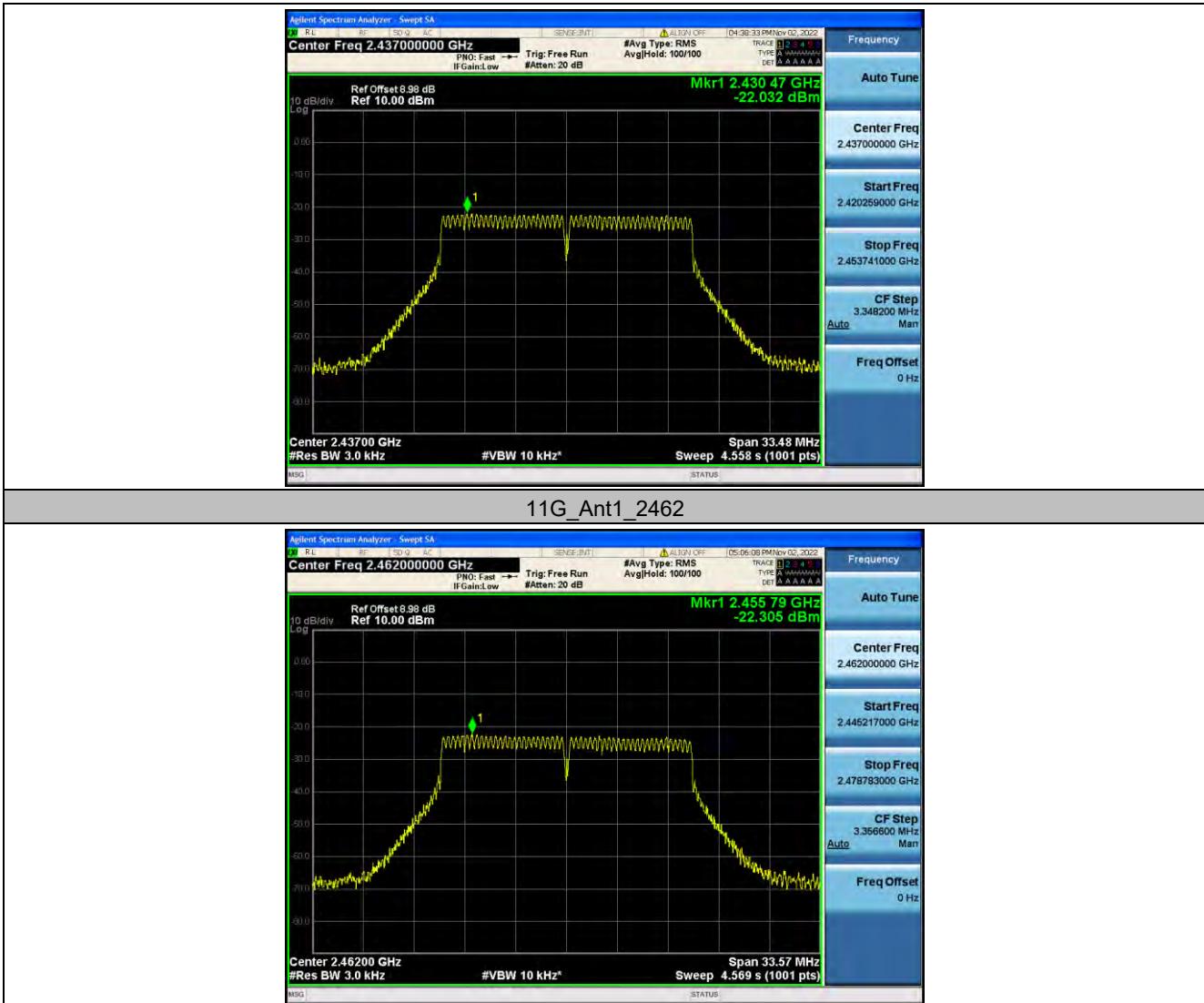
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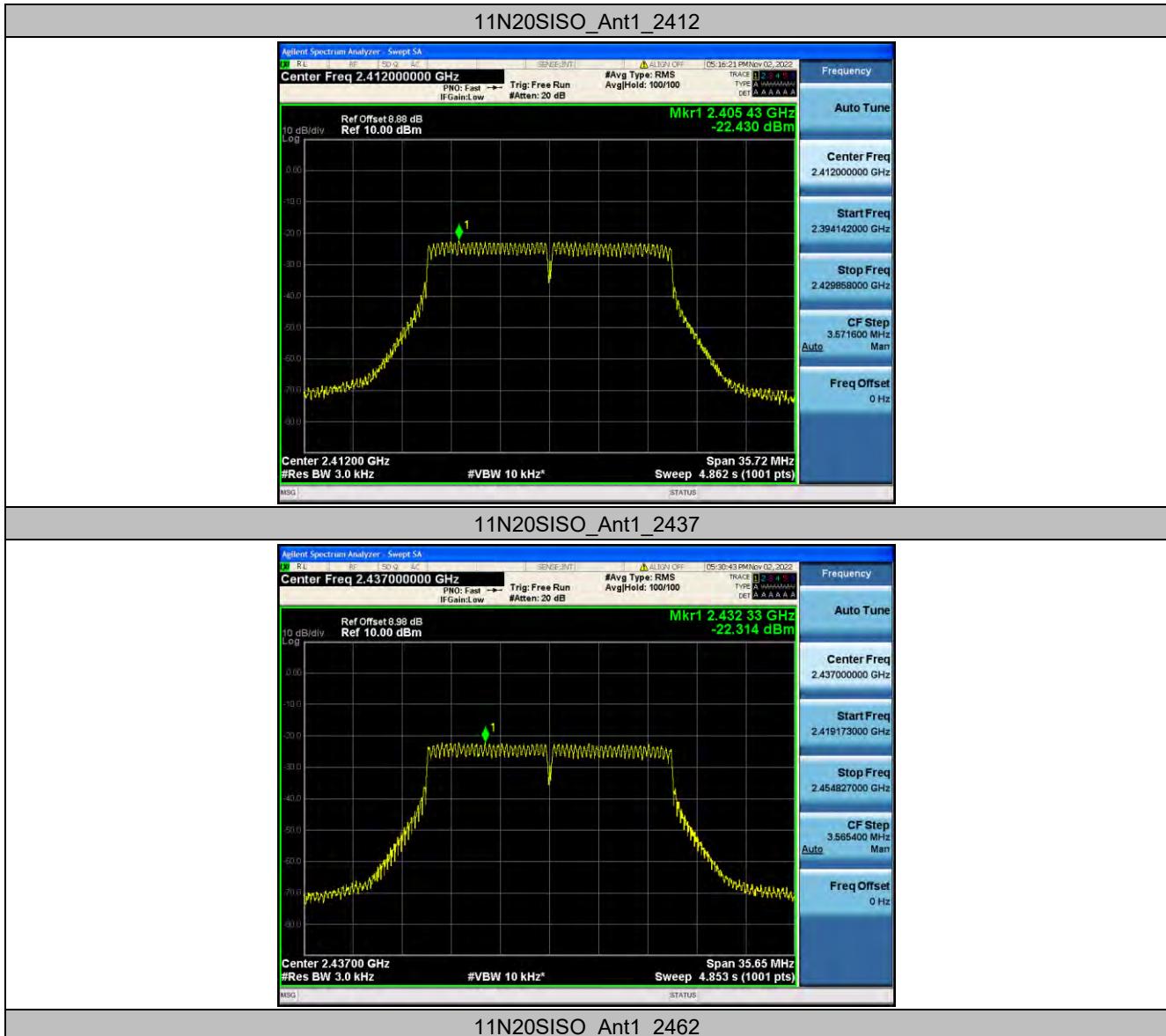
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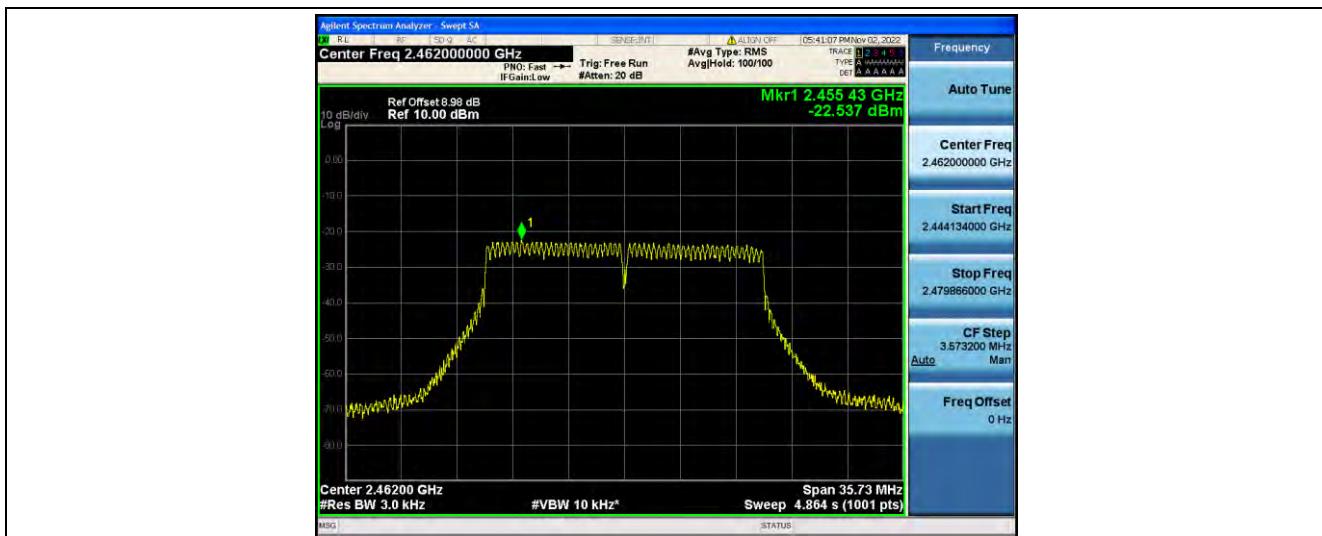




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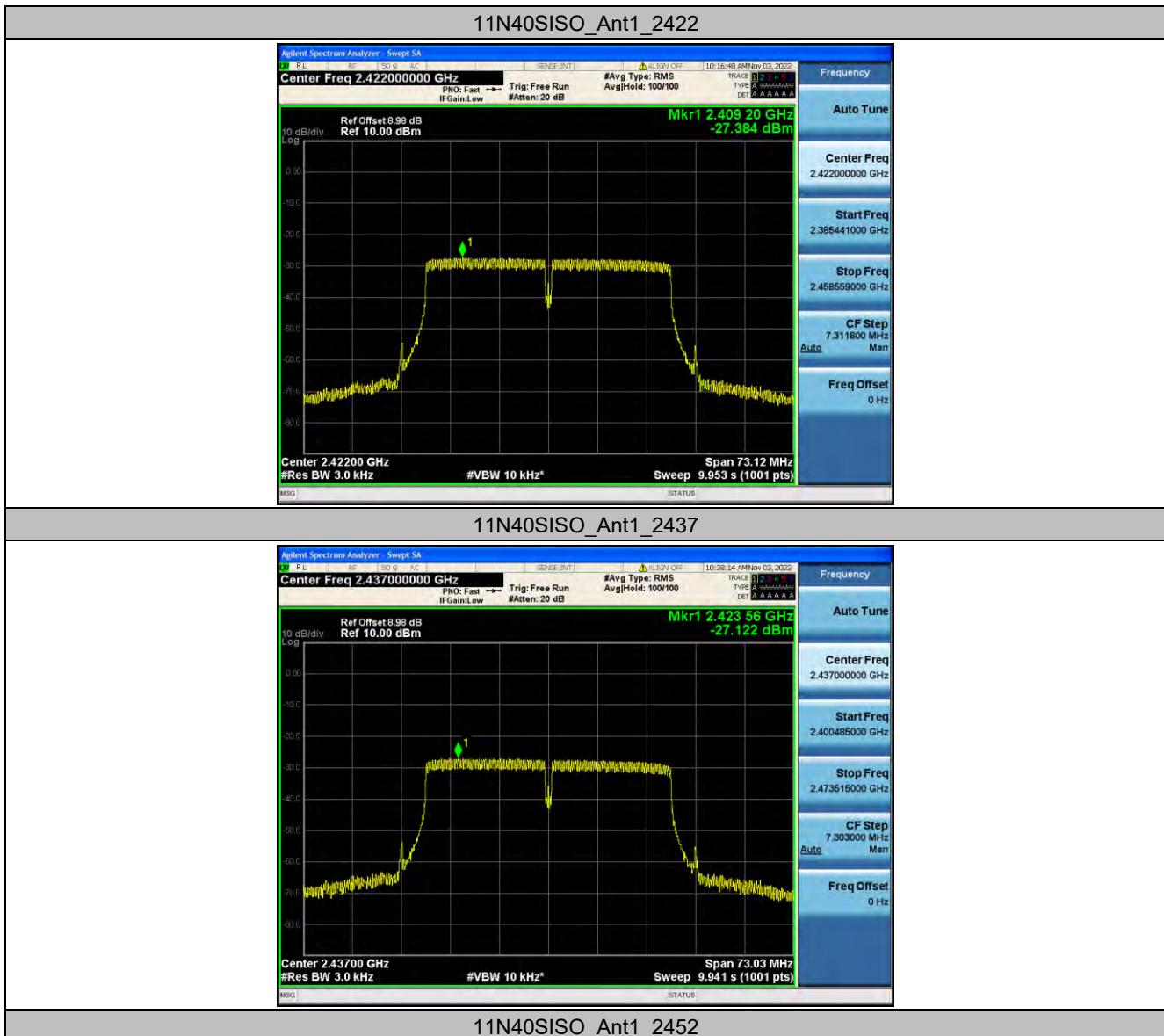


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10.5 Appendix E: Band edge measurements

10.5.1 Test Result

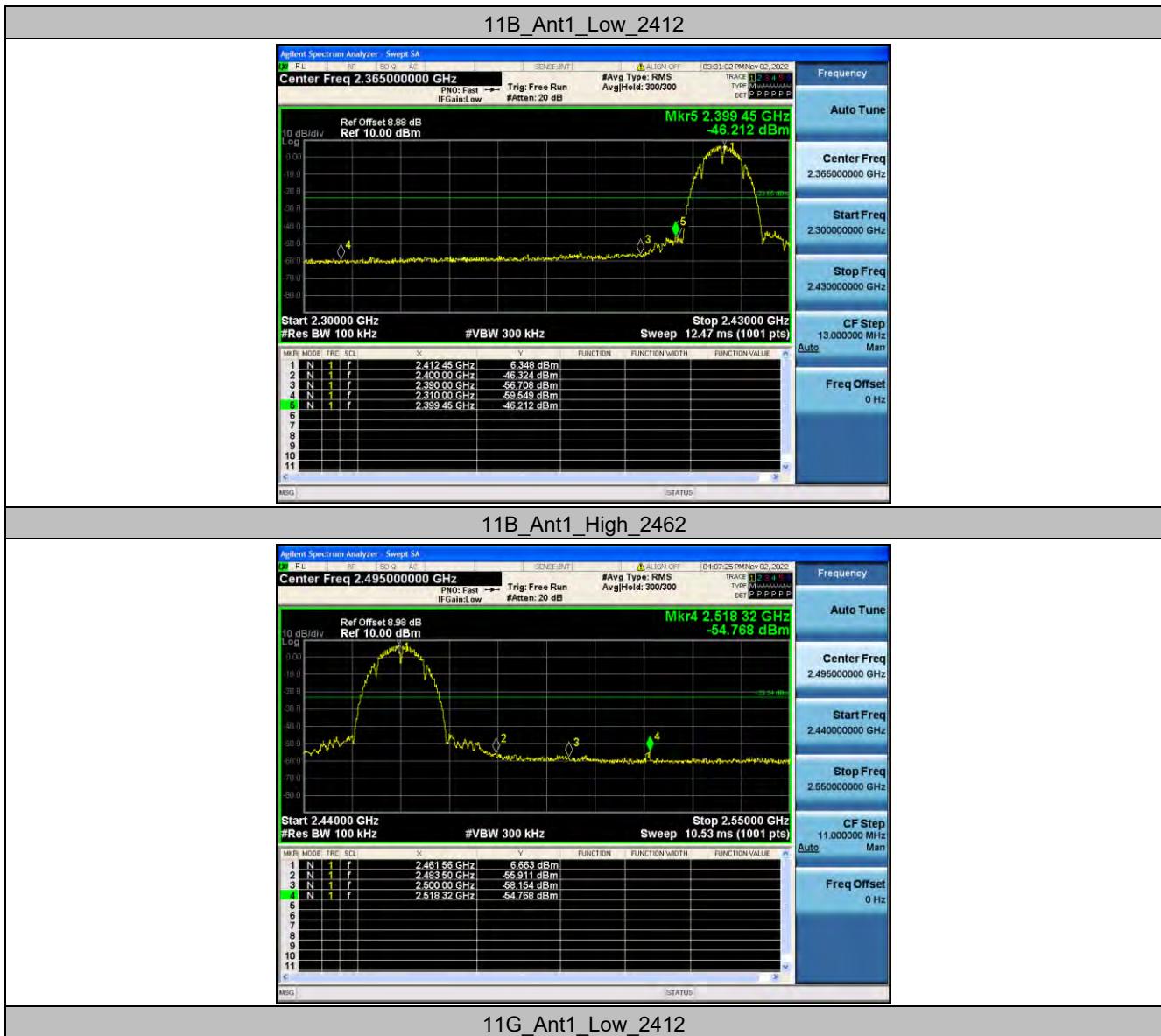
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.35	-46.21	≤-23.65	PASS
		High	2462	6.66	-54.77	≤-23.34	PASS
11G	Ant1	Low	2412	-1.73	-37.2	≤-31.73	PASS
		High	2462	-1.89	-45.71	≤-31.89	PASS
11N20SISO	Ant1	Low	2412	-1.45	-35.93	≤-31.45	PASS
		High	2462	-1.70	-44.41	≤-31.7	PASS
11N40SISO	Ant1	Low	2422	-6.27	-37.06	≤-36.27	PASS
		High	2452	-5.70	-47.82	≤-35.7	PASS

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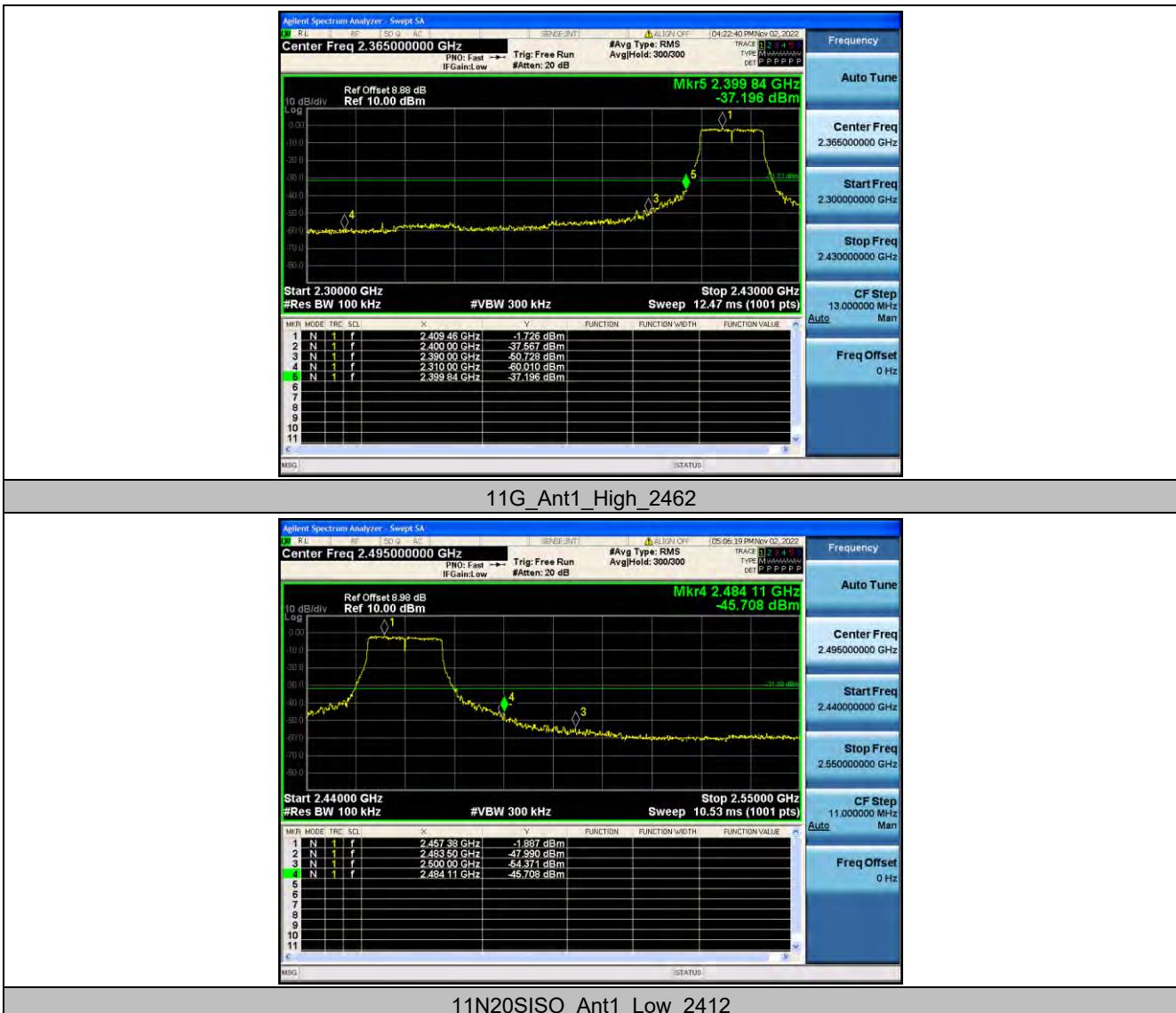
10.5.2 Test Graphs



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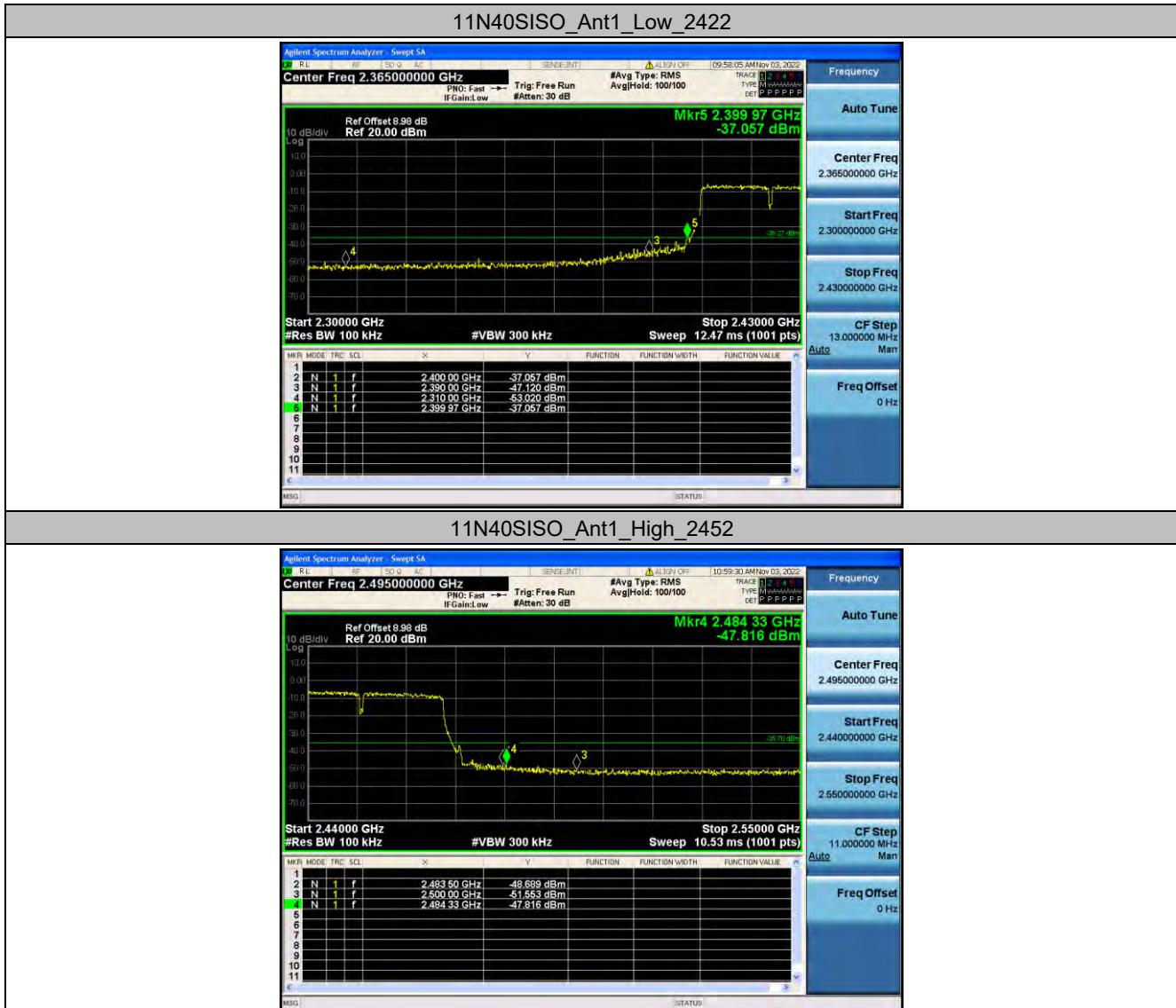


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10.6 Appendix F: Conducted Spurious Emission

10.6.1 Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.33	5.33	---	PASS
			30~1000	5.33	-61.94	≤-24.67	PASS
			1000~26500	5.33	-40.9	≤-24.67	PASS
		2437	Reference	6.29	6.29	---	PASS
			30~1000	6.29	-61.06	≤-23.71	PASS
			1000~26500	6.29	-40.02	≤-23.71	PASS
		2462	Reference	6.17	6.17	---	PASS
			30~1000	6.17	-60.58	≤-23.83	PASS
			1000~26500	6.17	-41.56	≤-23.83	PASS
11G	Ant1	2412	Reference	-2.07	-2.07	---	PASS
			30~1000	-2.07	-62.24	≤-32.07	PASS
			1000~26500	-2.07	-43.85	≤-32.07	PASS
		2437	Reference	-1.89	-1.89	---	PASS
			30~1000	-1.89	-61.98	≤-31.89	PASS
			1000~26500	-1.89	-43.38	≤-31.89	PASS
		2462	Reference	-2.00	-2.00	---	PASS
			30~1000	-2.00	-62.19	≤-32	PASS
			1000~26500	-2.00	-43.43	≤-32	PASS
11N20SISO	Ant1	2412	Reference	-2.69	-2.69	---	PASS
			30~1000	-2.69	-61.82	≤-32.69	PASS
			1000~26500	-2.69	-42.19	≤-32.69	PASS
		2437	Reference	-2.42	-2.42	---	PASS
			30~1000	-2.42	-61.1	≤-32.42	PASS
			1000~26500	-2.42	-43.82	≤-32.42	PASS
		2462	Reference	-1.67	-1.67	---	PASS
			30~1000	-1.67	-61.6	≤-31.67	PASS
			1000~26500	-1.67	-43.96	≤-31.67	PASS
11N40SISO	Ant1	2422	30~1000	-6.27	-60.2	≤-36.27	PASS
			1000~26500	-6.27	-43.31	≤-36.27	PASS
		2437	30~1000	-6.20	-60.96	≤-36.2	PASS
			1000~26500	-6.20	-43.1	≤-36.2	PASS
		2452	30~1000	-5.70	-59.87	≤-35.7	PASS
			1000~26500	-5.70	-43	≤-35.7	PASS

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10.6.2 Test Graphs



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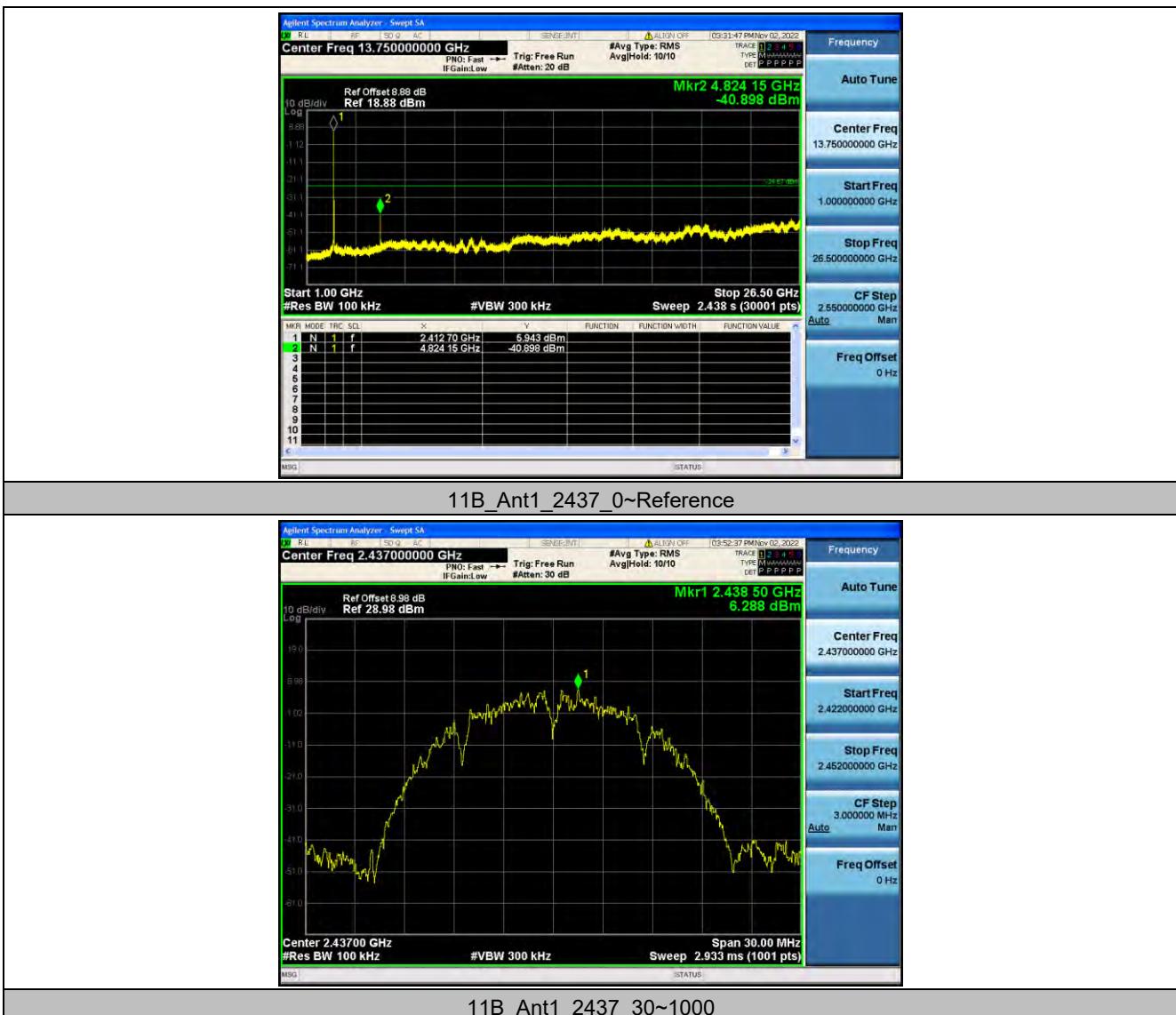
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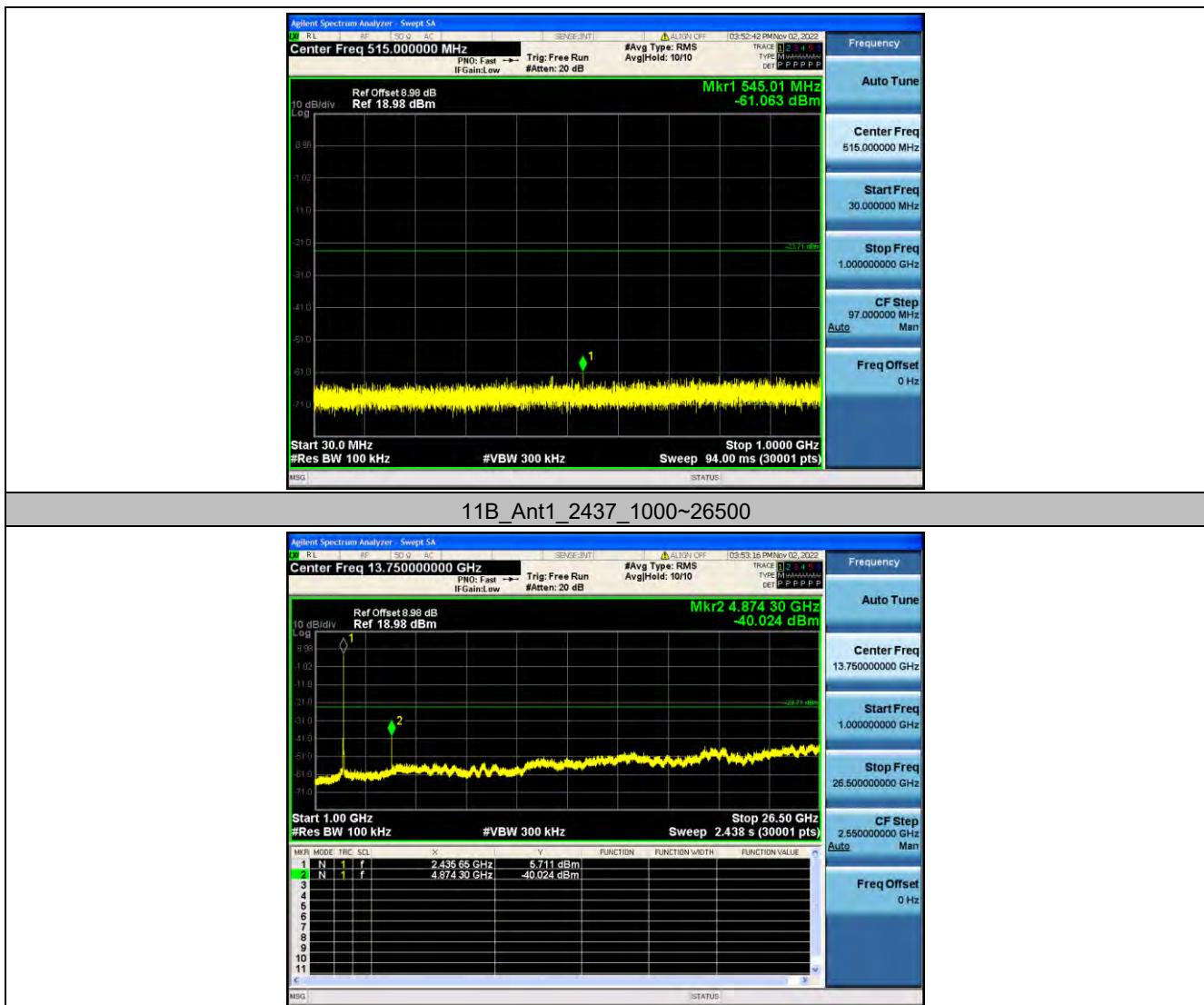
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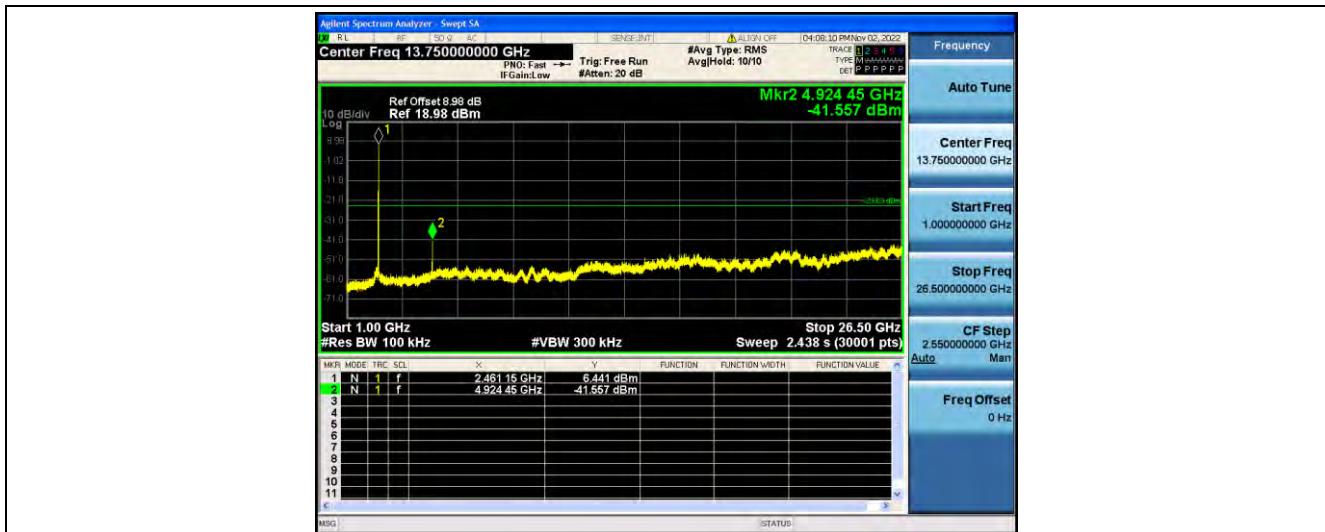
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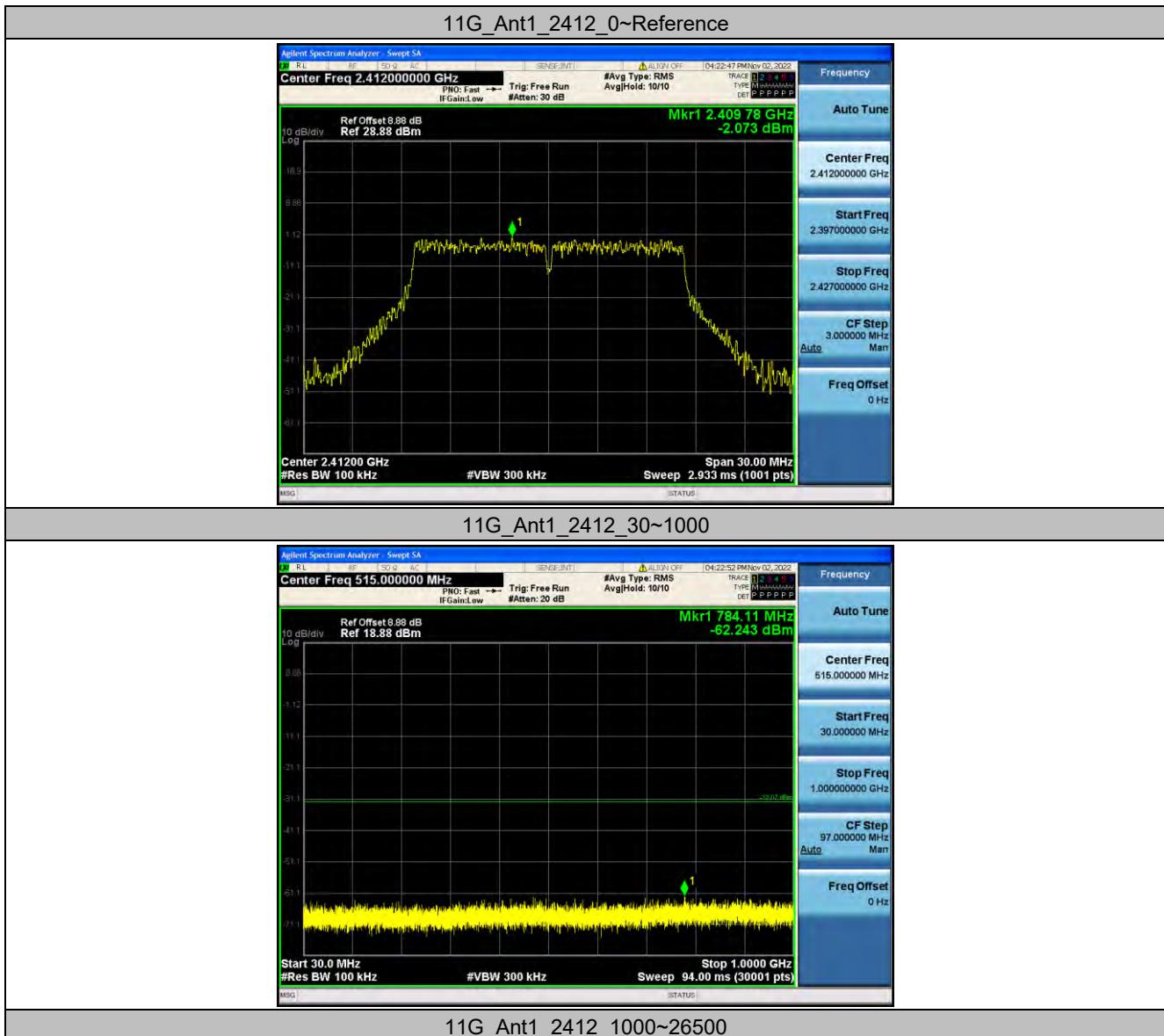
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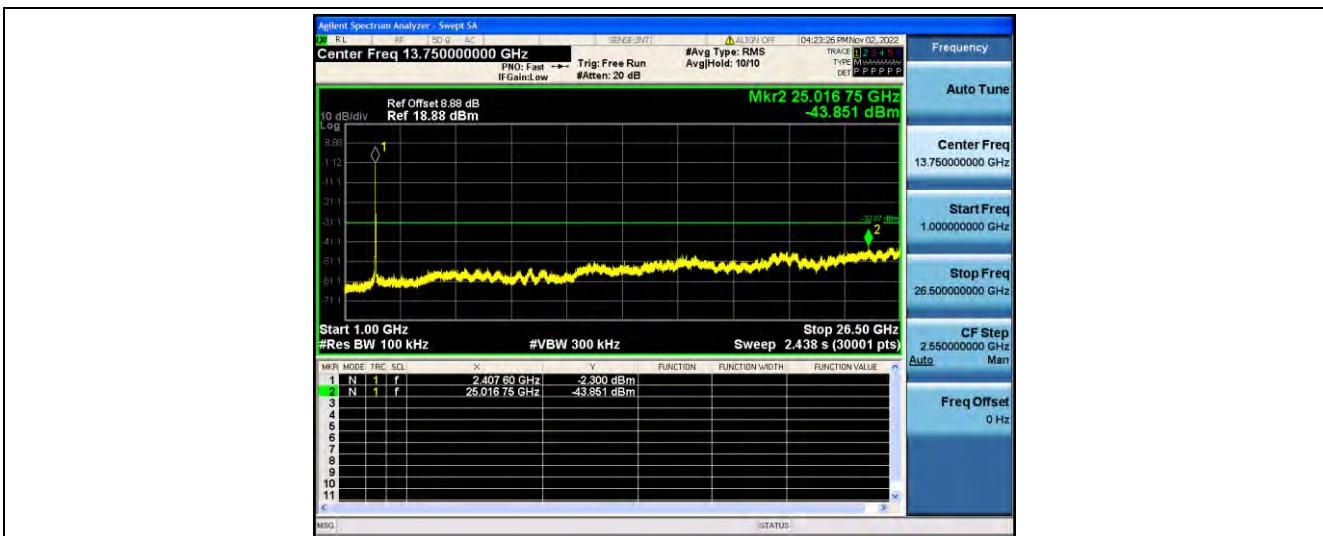


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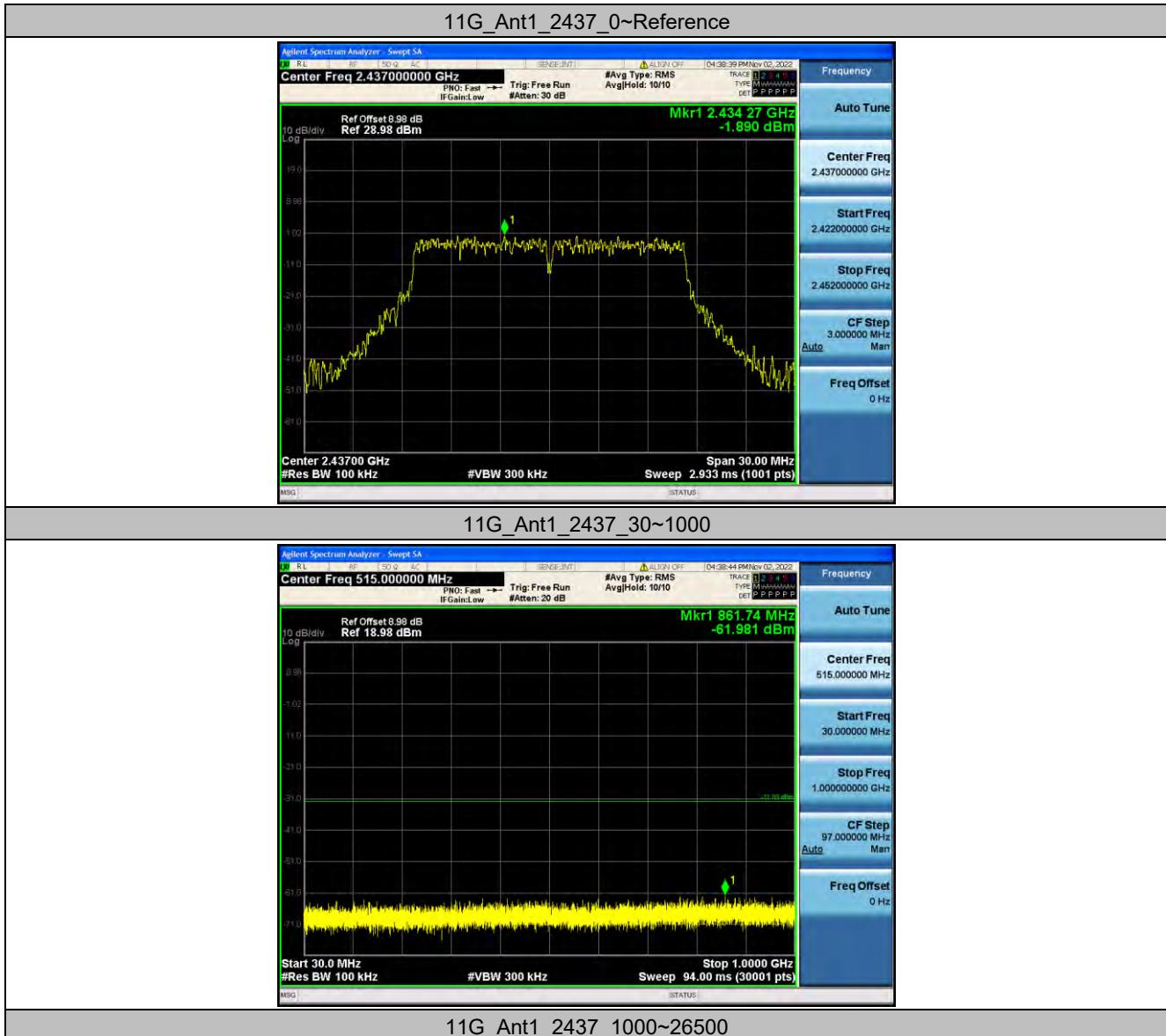
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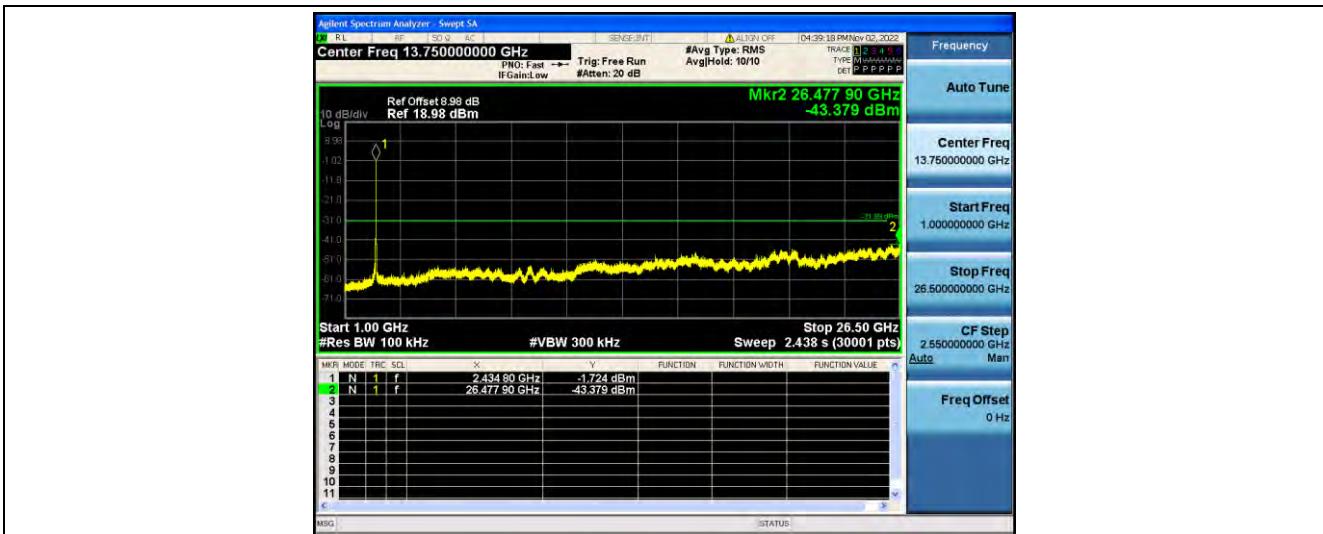
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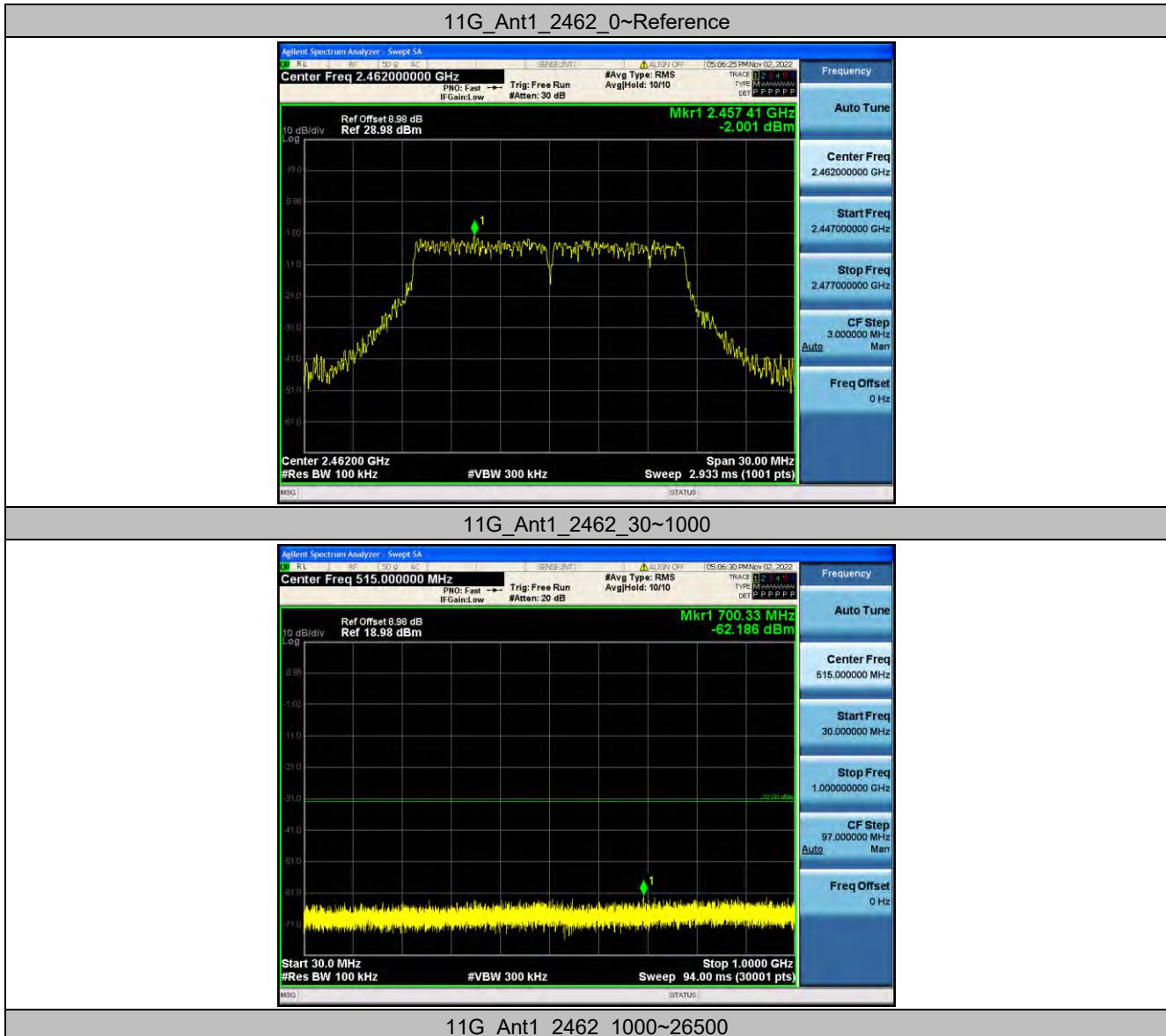


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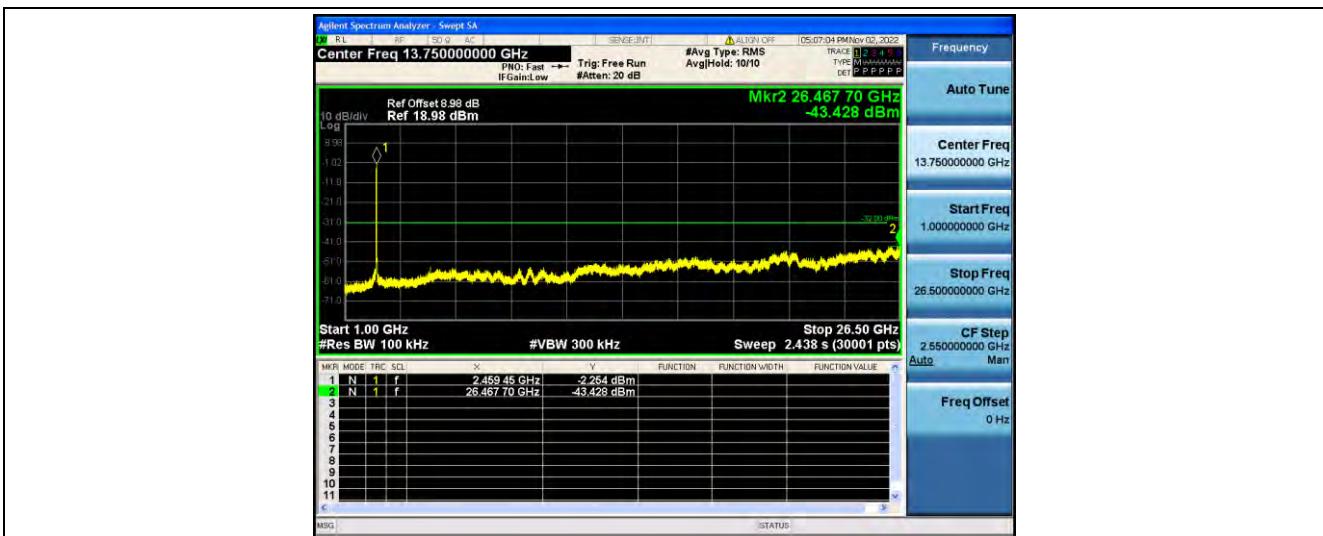


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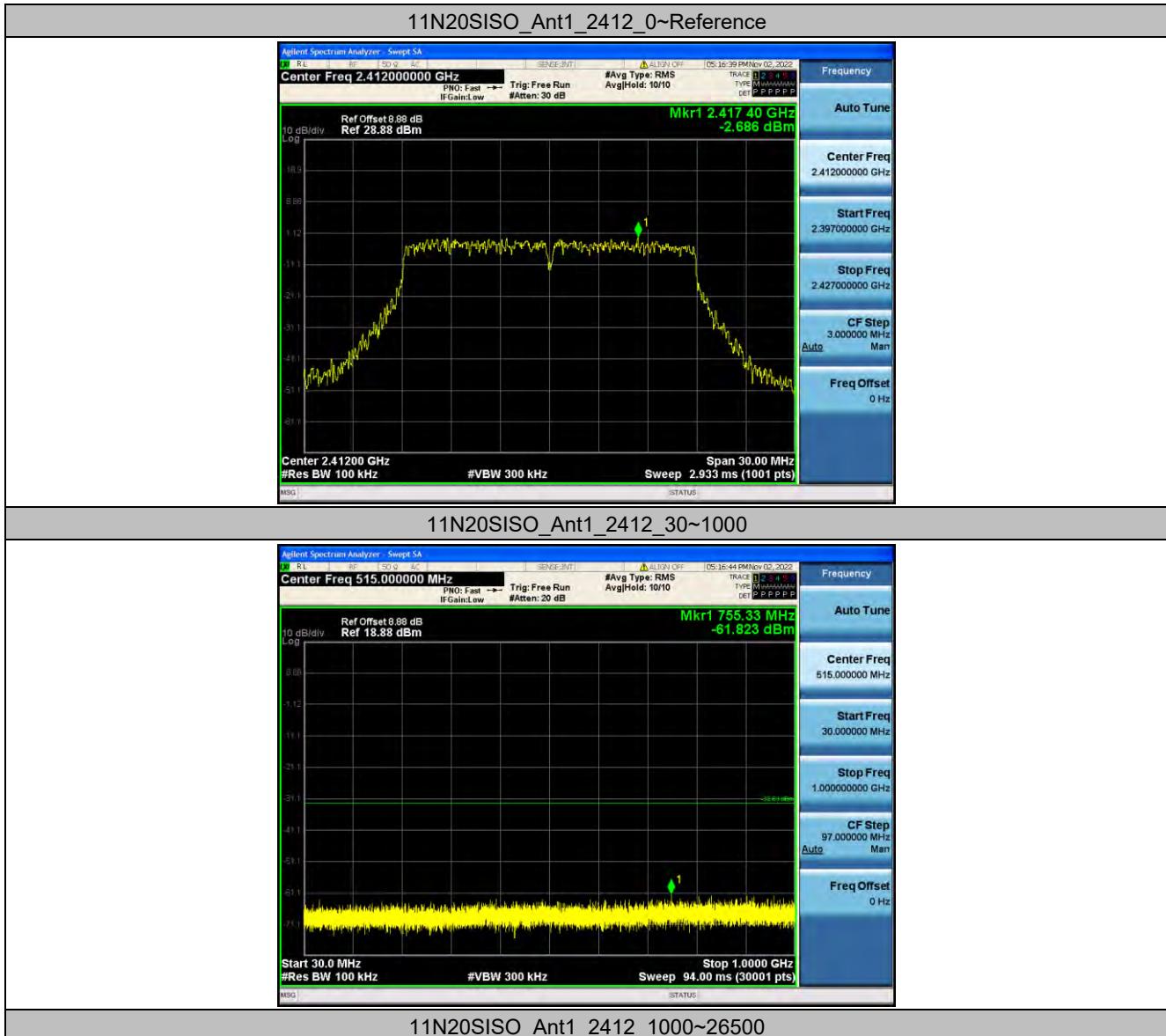
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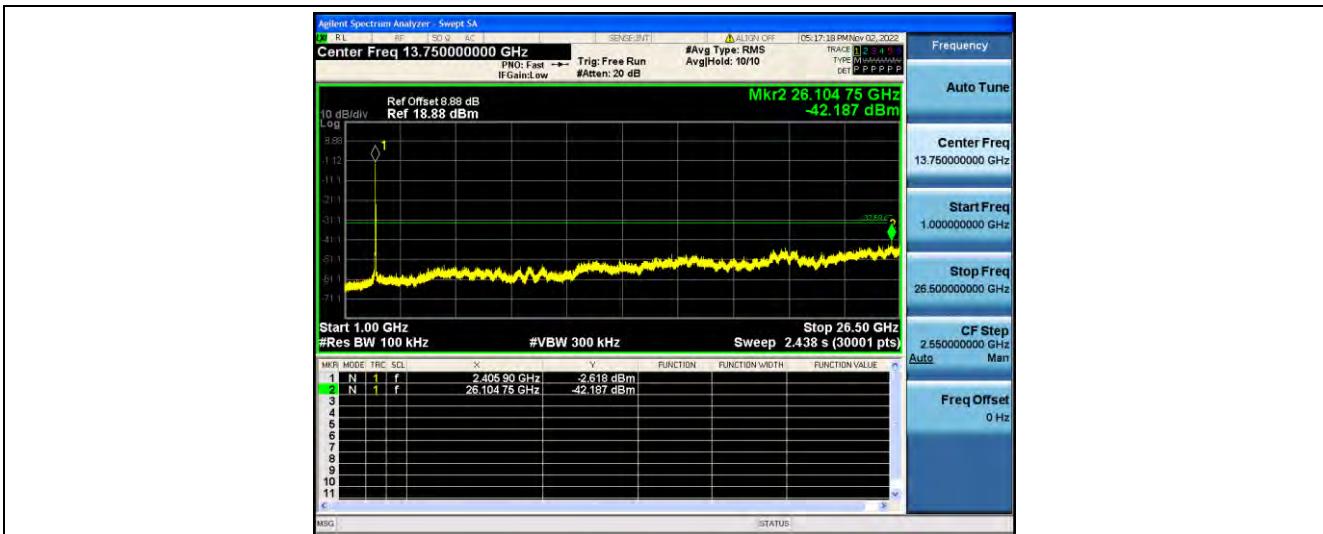


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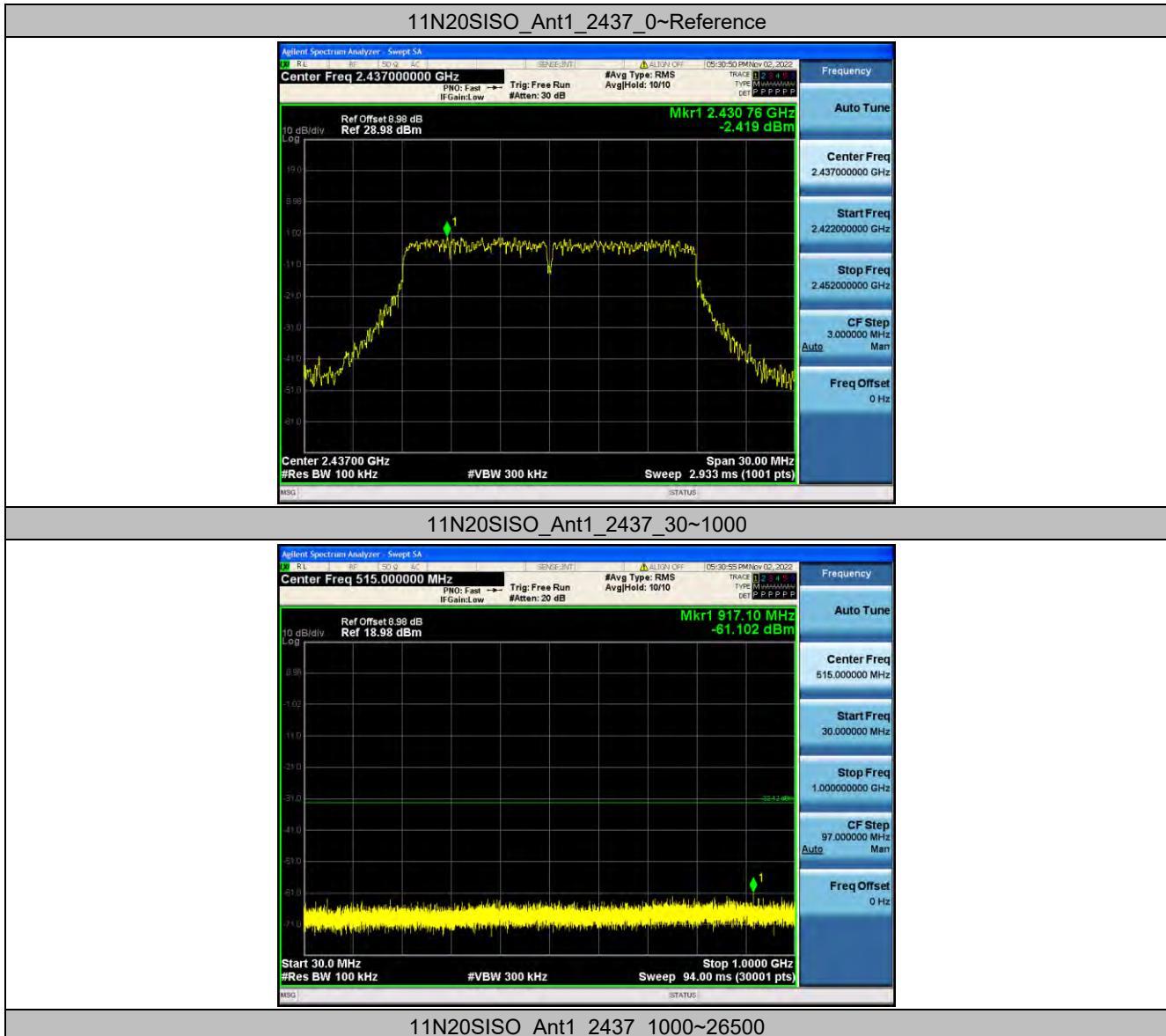
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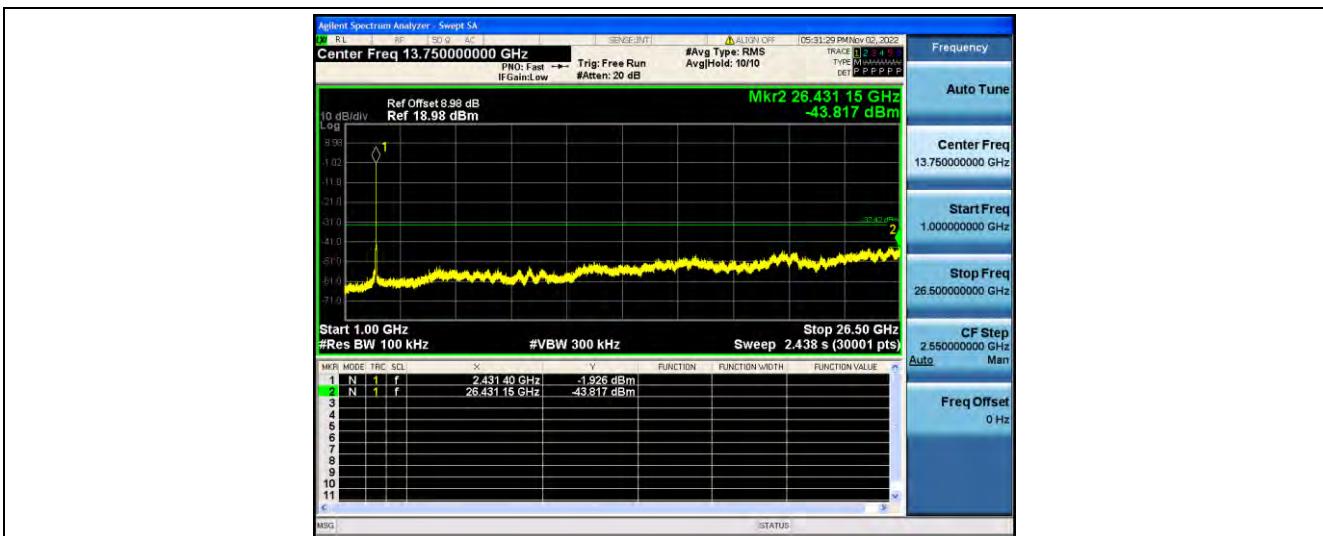
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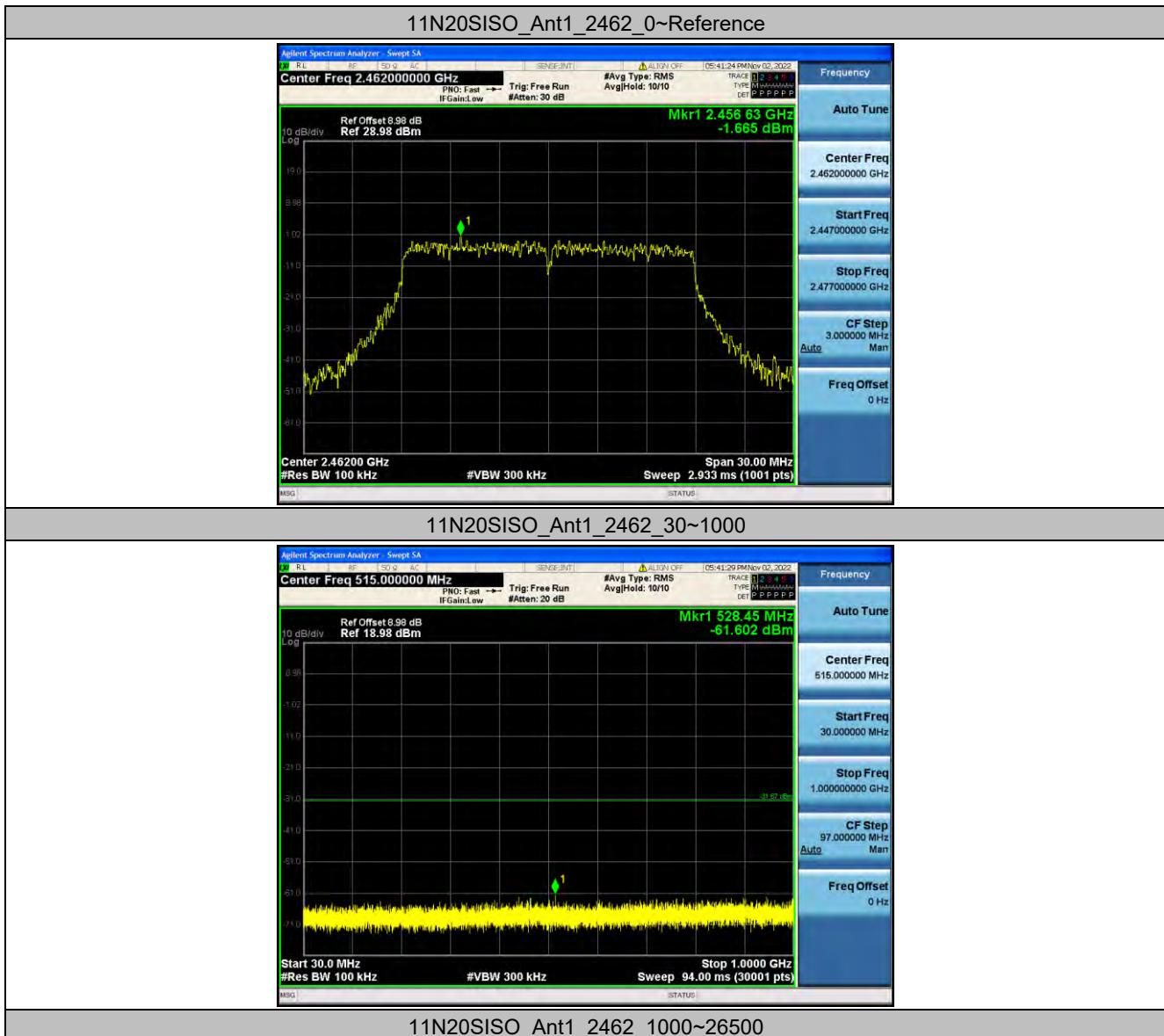
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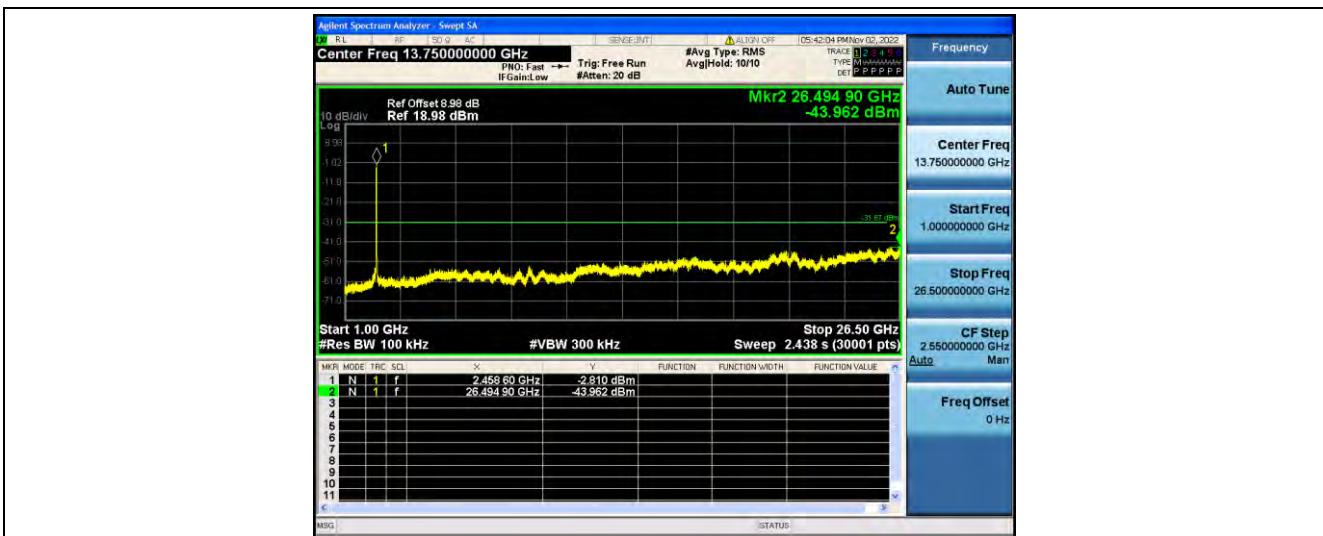


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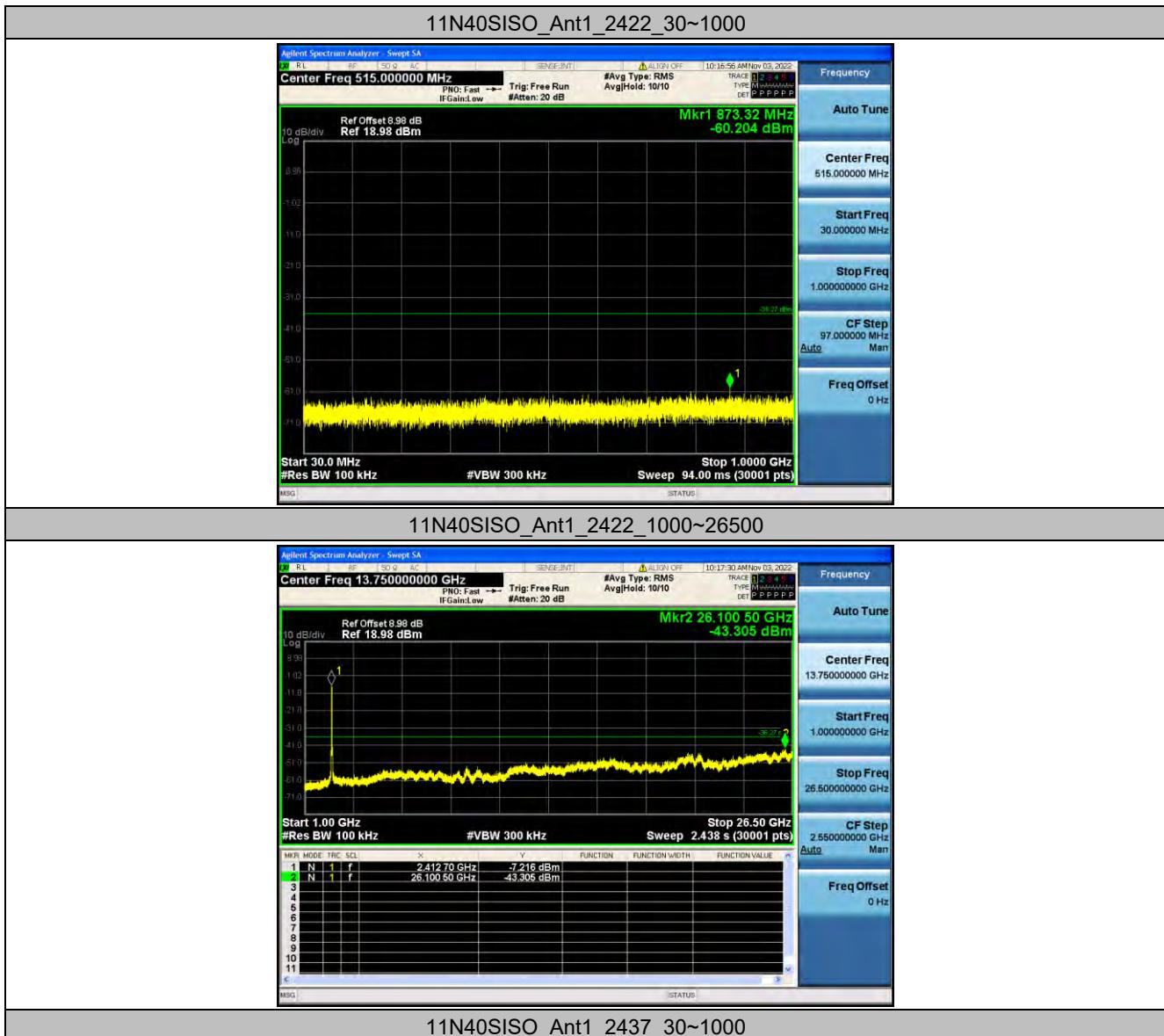
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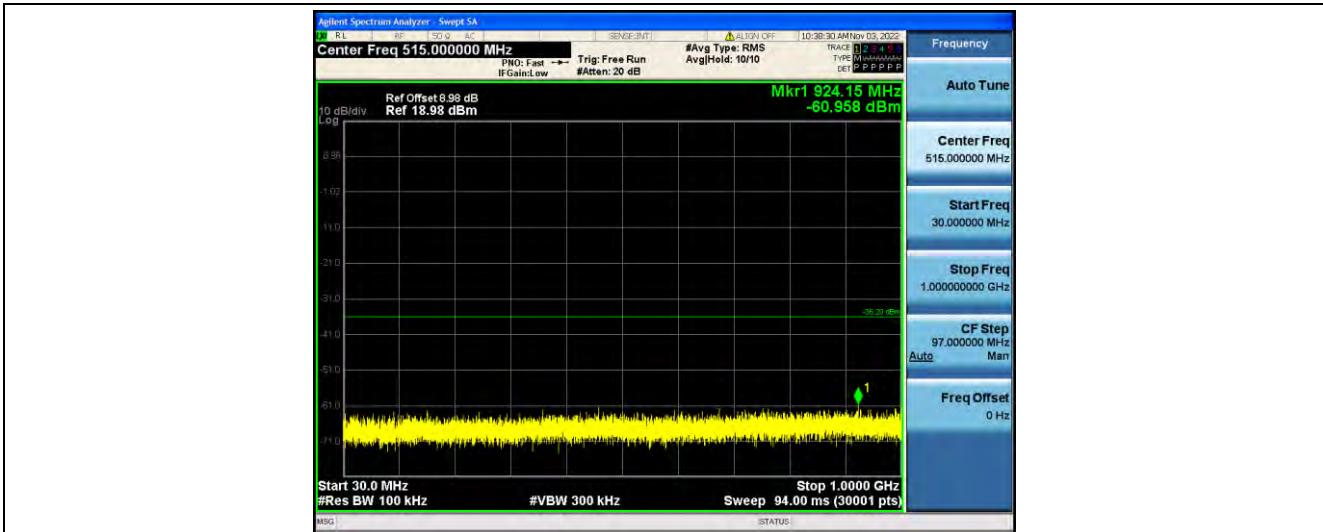


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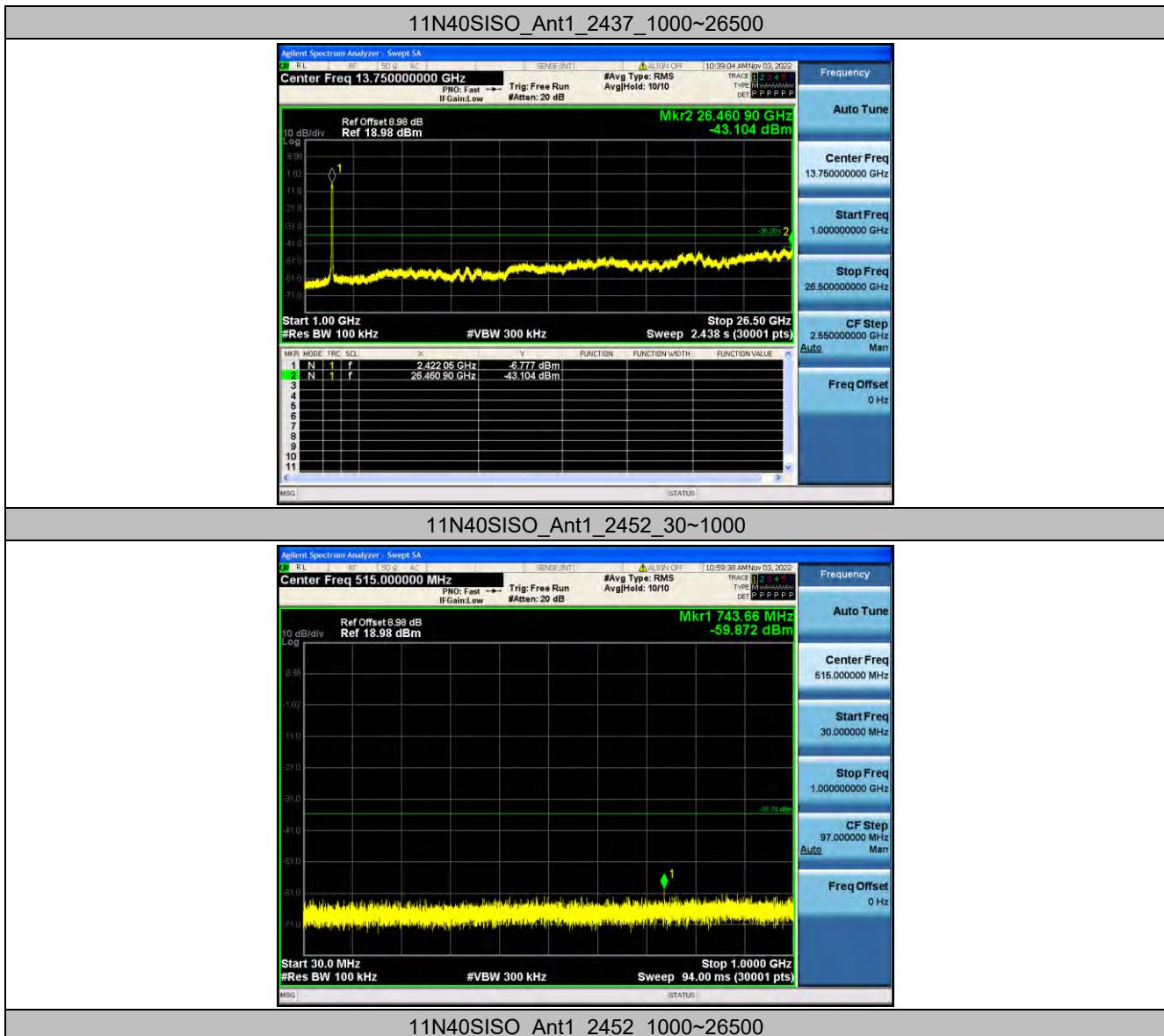
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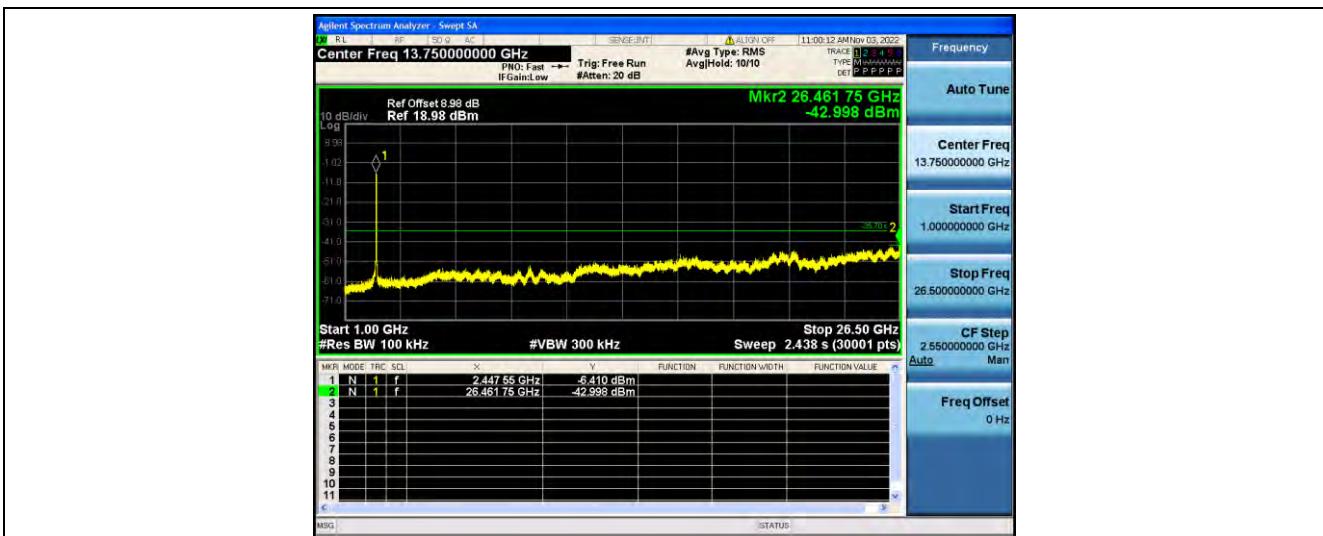
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10.7 Appendix G: Duty Cycle

10.7.1 Test Result

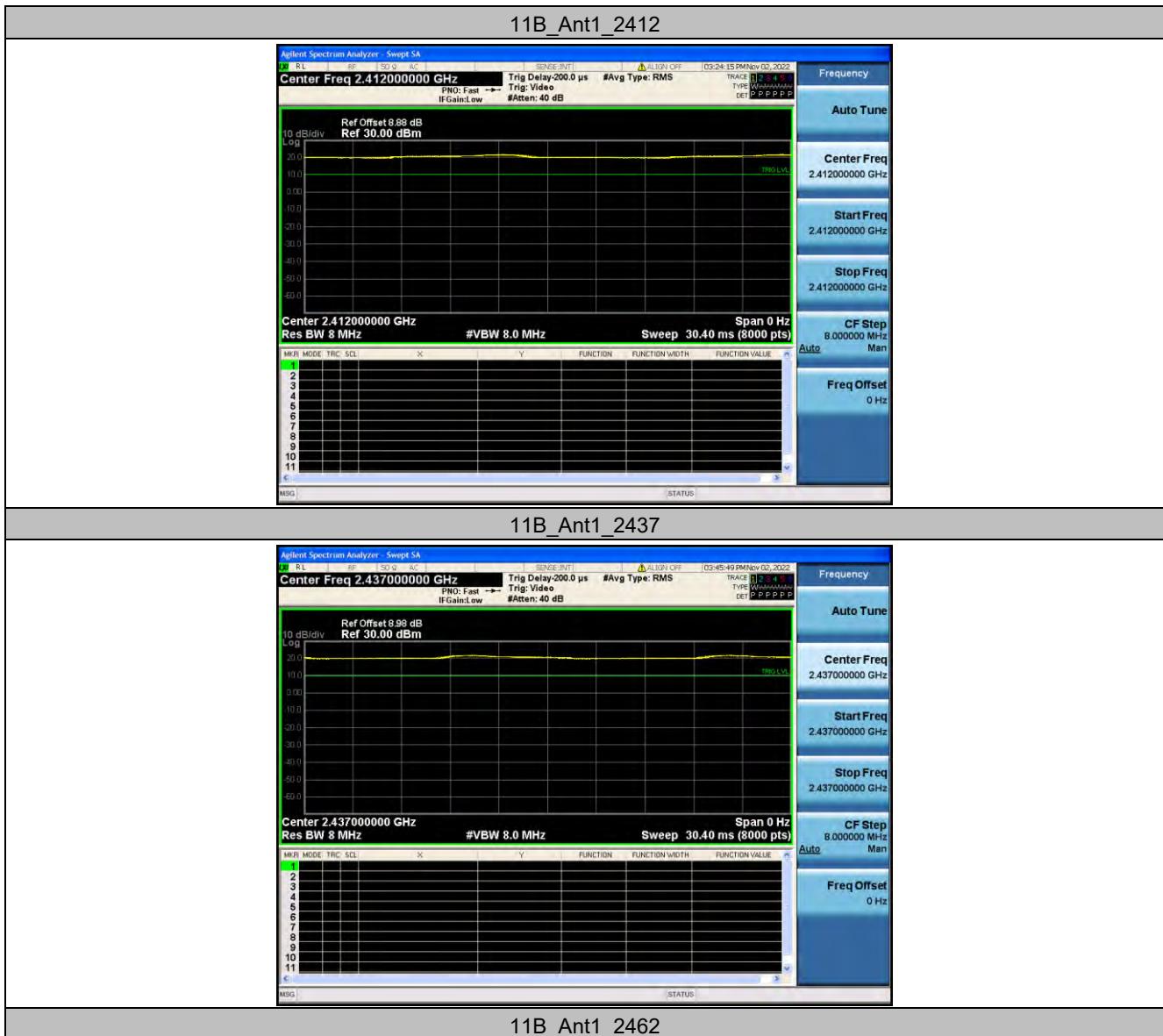
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11B	Ant1	2412	30.00	30.00	100.00	---	---
		2437	30.00	30.00	100.00	---	---
		2462	30.00	30.00	100.00	---	---
11G	Ant1	2412	30.00	30.00	100.00	---	---
		2437	30.00	30.00	100.00	---	---
		2462	30.00	30.00	100.00	---	---
11N20SISO	Ant1	2412	30.00	30.00	100.00	---	---
		2437	30.00	30.00	100.00	---	---
		2462	30.00	30.00	100.00	---	---
11N40SISO	Ant1	2422	19.00	19.00	100.00	---	---
		2437	19.00	19.00	100.00	---	---
		2452	19.00	19.00	100.00	---	---

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10.7.2 Test Graphs



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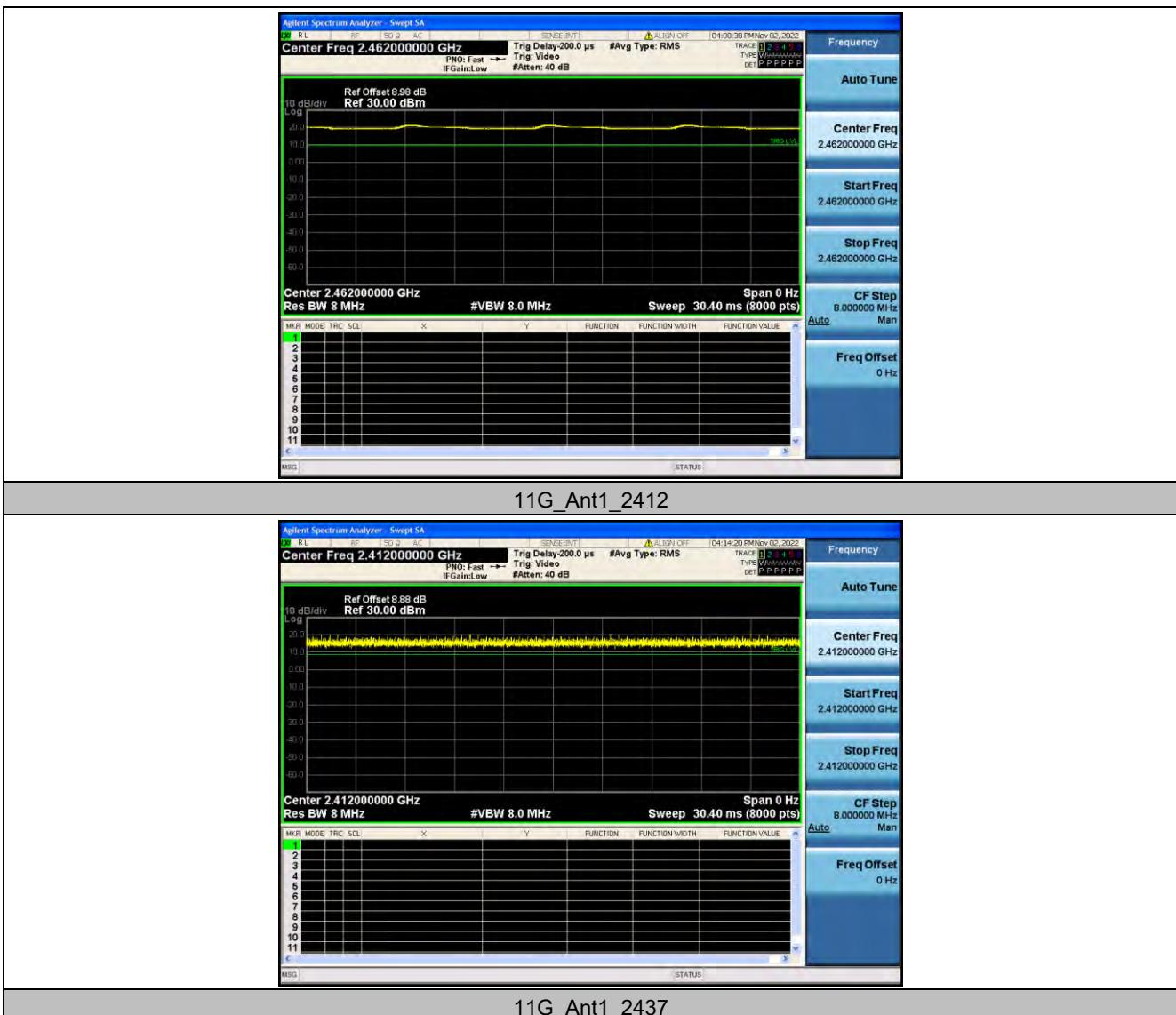
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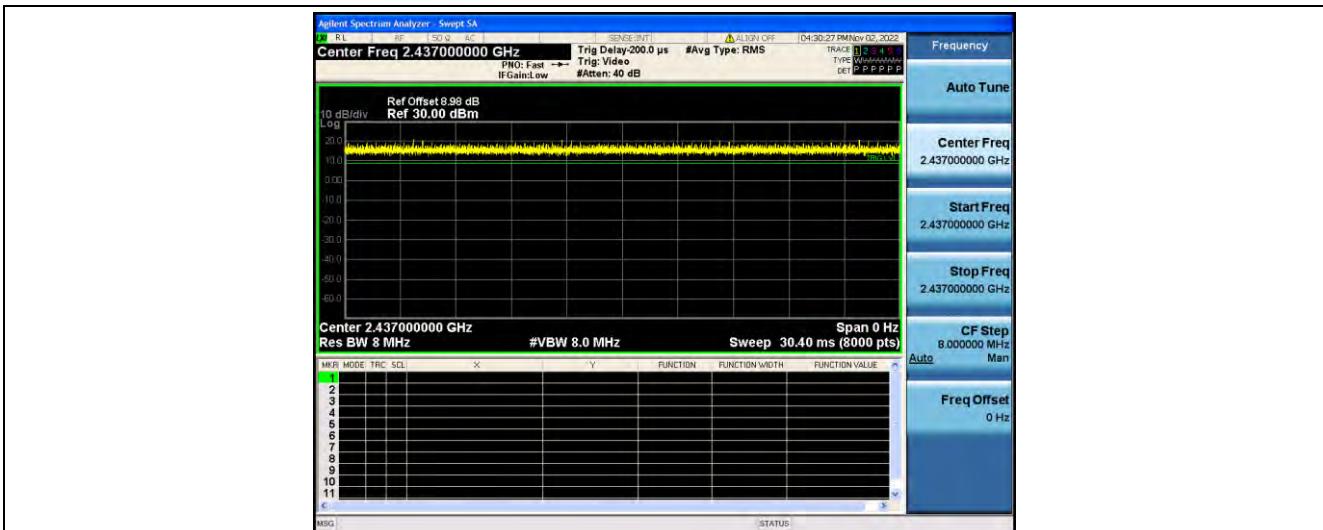
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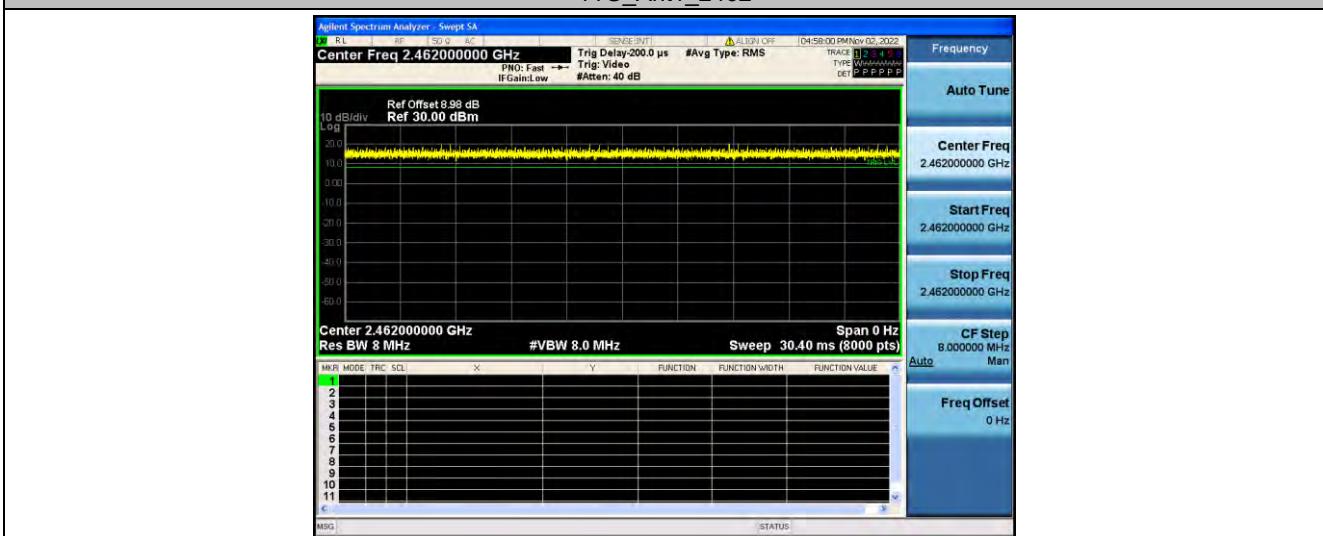
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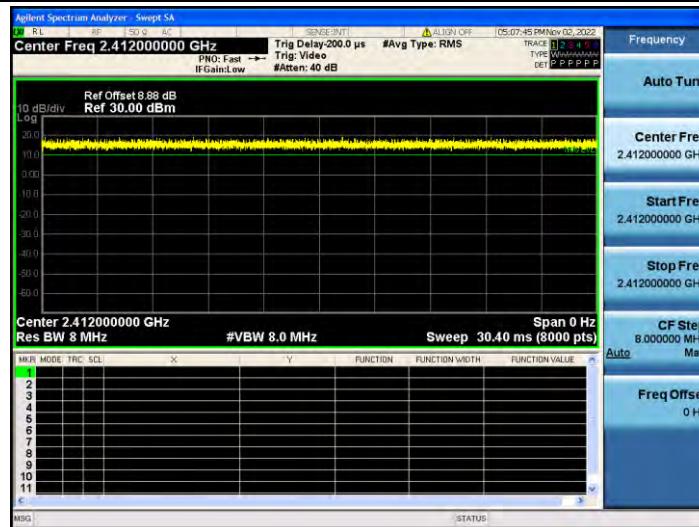
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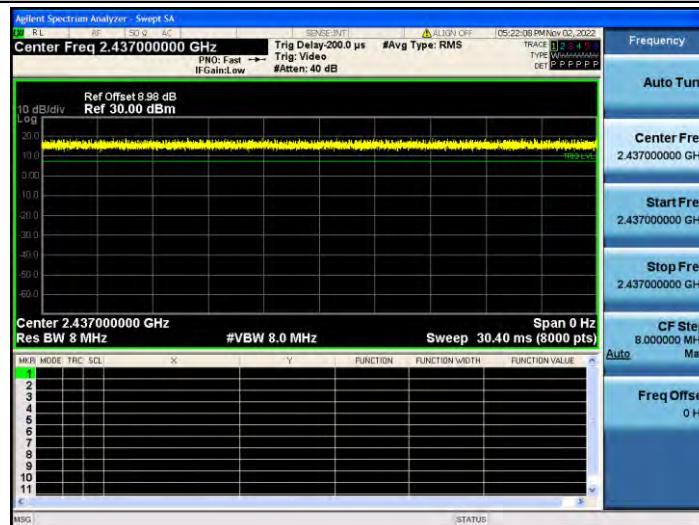
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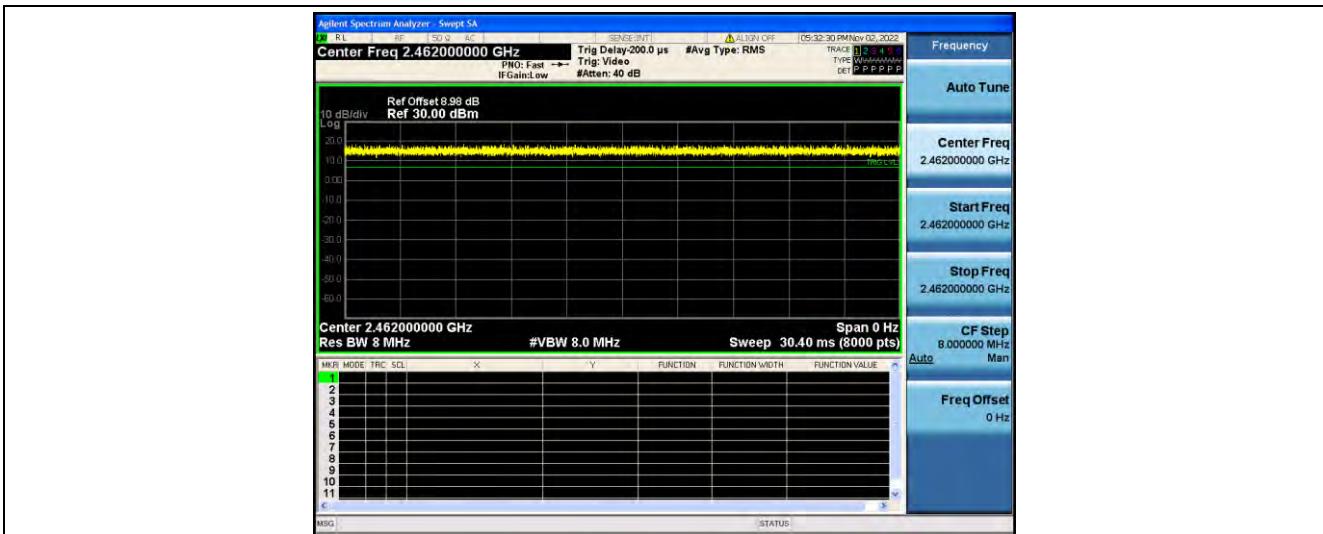
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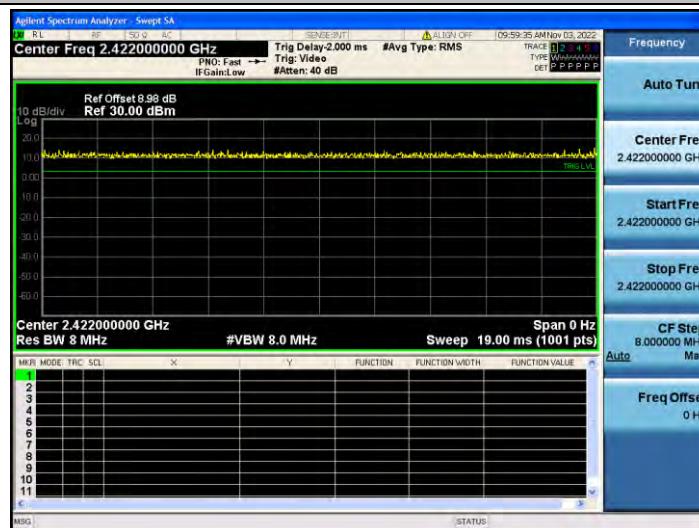
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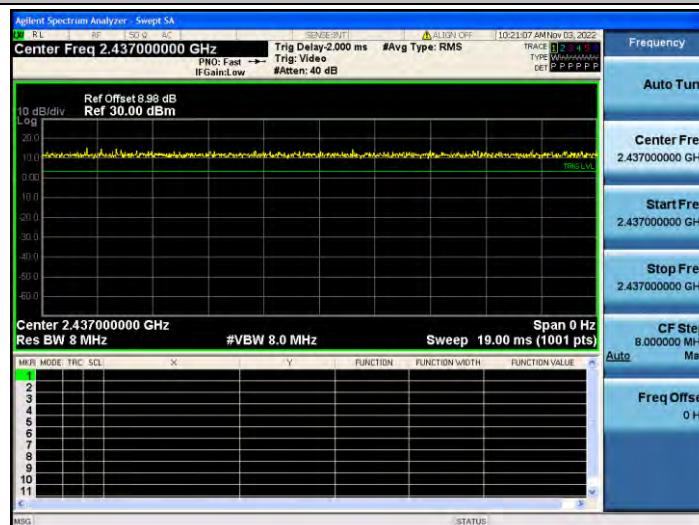
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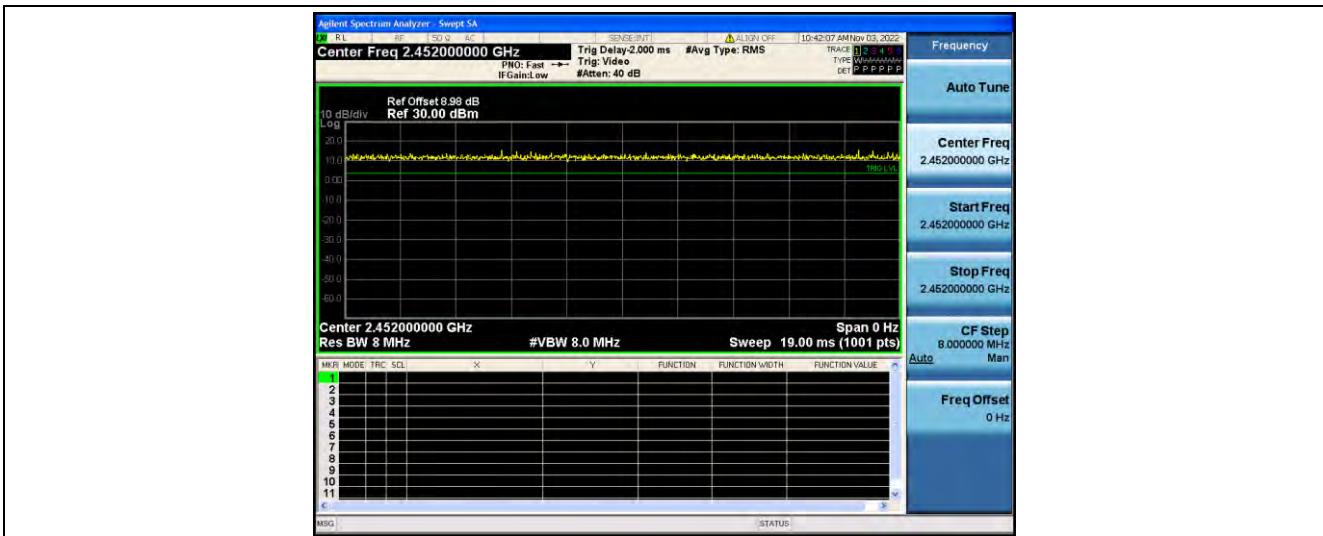
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