

Test Report

No.: AJT220810029EA-1

Applicant Name : GUANGDONG HENGDI TECHNOLOGY CORP., LTD.
Applicant Address : BUILDING C, JINHUI INDUSTRIAL BUILDING, SOUTH OF YUTING ROAD, EAST OF TAIAN ROAD, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA
Manufacturer : GUANGDONG HENGDI TECHNOLOGY CORP., LTD.
Manufacturer Address : BUILDING C, JINHUI INDUSTRIAL BUILDING, SOUTH OF YUTING ROAD, EAST OF TAIAN ROAD, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

Sample Description : RC TOYS
Model No. : S12
Additional Model : S5, S6, S7, S8, S9, S10, S11, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 1336, 1340, 1339A, 1339W, 1339W-VR, 1332A, 1332W, 1332W-VR, 1343A, 1343W, 2003, 2103, 2106, 1802, 1802-01, 1803, 1818, 1912B, 1306, 1345, 1315W, 1335W, 1327A, 1327W, HM0707, HM0710, HM1204, HM1304, HM0930, HM1816, ODY-1955LIT, DRC442, DRC442-BLK, DRC448, DRC448-BLK, DRC448-NOC-STK-2, 2016, 2106
Sample Received Date : 10 Aug, 2022
Testing Completed Date : 25 Oct, 2022

Tests conducted: For compliance with application, refer to attached page(s) for details.

Assess standard used:	Conclusion
FCC CFR47 Part 15, Subpart C, Section 15.247	PASS

Tested by:

Glory

Reviewed by:

Fly Liang

Approved by:

Position: Technical Supervisor

Date: 2022-12-06



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1 Test Standards

The tests were performed according to following standards:
FCC Part 15, Subpart C, Section 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.
ANSI C63,10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019: GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUMSYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247OF THE FCC RULES

2 Summary

2.1 General Remarks

Date of receipt of test sample	10 Aug, 2022
Testing commenced on	10 Aug, 2022 ---- 24 Oct, 2022
Testing concluded on	24 Oct, 2022

NOTE: This report supersedes the original report of AJT220810029E-1, Added notes in clause 6.4.

3 General Information

3.1 General Description of E.U.T.

Product:	RC TOYS
Model(s):	S12
Additional Model:	S5, S6, S7, S8, S9, S10, S11, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 1336, 1340, 1339A, 1339W, 1339W-VR, 1332A, 1332W, 1332W-VR, 1343A, 1343W, 2003, 2103, 2106, 1802, 1802-01, 1803, 1818, 1912B, 1306, 1345, 1315W, 1335W, 1327A, 1327W, HM0707, HM0710, HM1204, HM1304, HM0930, HM1816, ODY-1955LIT
FCC ID:	2AWZK-S88812
Wi-Fi Specification:	2.4G-802.11b/g/n HT20
Highest frequency (Exclude Radio):	40MHz
Storage Location:	External storage (SD card)
NOTE: 1.The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer. 2. Product models same are identical in the PCB layout, electrical circuit design and functions, The differences are appearance color, exterior structure, and model name for commercial purpose.	

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3.2 Details of E.U.T.

Operation Frequency:	Wi-Fi: 802.11b/g/n HT20: 2412~2462MHz
Max. RF output power:	Wi-Fi (2.4G): -2.18dBm
Type of Modulation:	Wi-Fi: DSSS, OFDM
Antenna installation:	Wi-Fi: internal permanent antenna
Antenna Gain:	Wi-Fi (2.4G): 2.31dBi
Ratings:	DC 3.7V for Battery & 3V*4(button*4) DC 5V For Adapter Charging
NOTE: 1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer.	

3.3 Channel List

WIFI

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	12	-

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3.4 Test mode

Table 1 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Peak Output Power	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
Power Spectral Density	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
6dB Bandwidth	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
Band Edge	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
Transmitter Spurious Emissions	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX

Note: Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product.

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4 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	PASS
Conducted Spurious Emissions	15.247(d)	PASS
Conducted Emissions	15.207(a)	N/A
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3), (4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS

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5 Equipment Used during Test

5.1 Equipments List

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	Keysight	N9010A	MY51120099	2021/11/30	2022/11/30
2	JS0806-2 RF Control Unit	Tonscend	JS0806-2	188060124	2022/08/09	2023/08/09
3	Broadband Preamplifier	SCHWARZBECK	BBV 9743B	00067	2022/03/22	2023/03/22
4	Broadband Preamplifier	SCHWARZBECK	BBV 9718B	00002	2022/03/22	2023/03/22
5	EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102452	2022/03/22	2023/03/22
6	Trilog Broadband Antenna	SCHWARZBECK	VULB 9163	9163-1127	2021/07/12	2023/07/12
7	Horn Antenna	SCHWARZBECK	BBHA 9120D	01829	2022/03/22	2023/03/22
8	DC Power Supply	SIGLENT	SPD1168X	SPD1XEAD3 R 0167	2022/03/22	2023/03/22
9	Vector Signal Generator	Keysight	N5172B	MY53052255	2022/03/22	2023/03/22
10	Analog Signal Generator	Keysight	N5171B	MY53051692	2022/03/22	2023/03/22
11	Temperature Humidity Chamber	Yiheng	BPS-50CB	191005684	2022/07/28	2023/07/28
12	Temperature and Humidity Indicator	JianDaRenKe	Cos-03	612058	2021/12/01	2022/12/01
13	BAT-EMC Testing (Test Software)	NEXIO	BAT-EMC	Version: 3.16.0.74	N/A	N/A
14	JS1120-3 Test System (Test Software)	Tonscend	JS1120-3	Version: 2.5.77.0418	N/A	N/A
15	Double Ridge Guide Horn Antennas	A.H.Systems	SAS-574	588	2021/06/28	2023/06/28
16	Active Loop Antenna	HRTY	HR8913A	6933132206023	2022/07/15	2023/07/15

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

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5.3 Measurement Uncertainty

Measurement Uncertainty (Standard: ETSI TR 100 028)	
Conducted Emission (CE)	$\pm 2.14\text{dB}$
Radiated Emission below 1GHz	$\pm 4.44\text{dB}$
Radiated Emission above 1GHz	$\pm 5.26\text{dB}$

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6 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207
Test Method: ANSI C63.10:2013
Test Result: N/A
Frequency Range: 150kHz to 30MHz
Class/Severity: Class B
Limit:

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

6.1 E.U.T. Operation

Operating Environment: N/A
Temperature: N/A
Humidity: N/A
Atmospheric Pressure: N/A
EUT Operation: N/A

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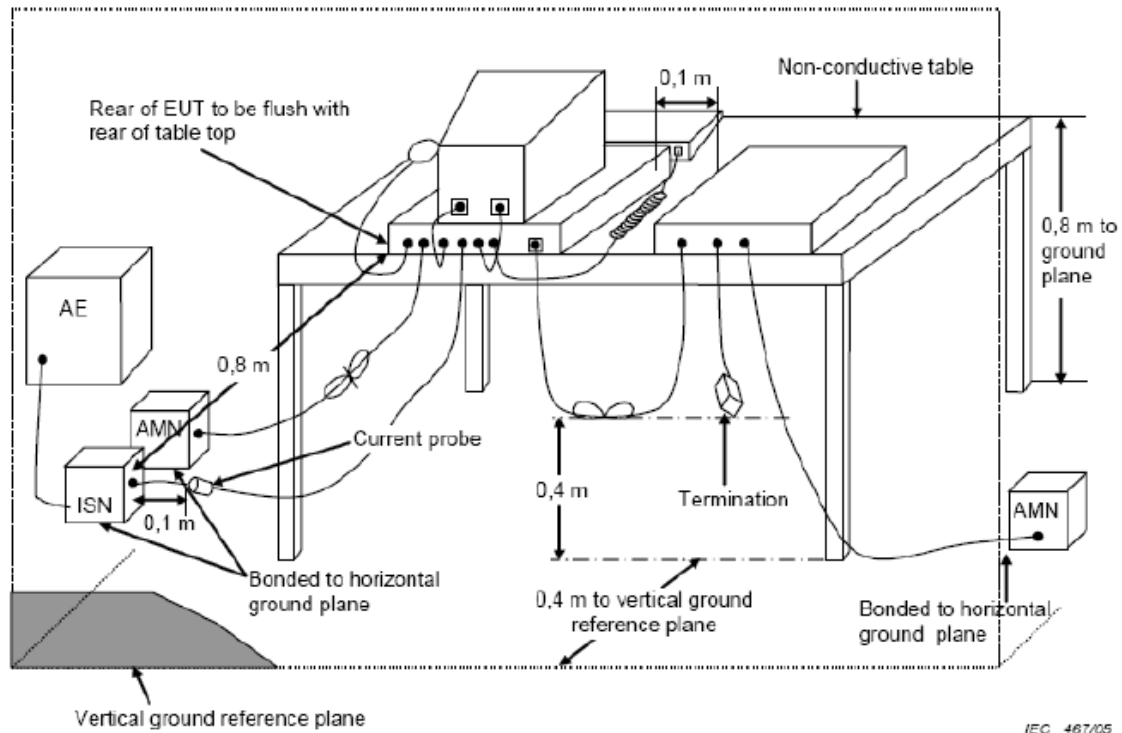
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6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10.



6.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.4 Conducted Emission Test Result

Not Applicable

Note: The device is a DC power supply and does not apply to conducted emissions.

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7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013
Test Result: PASS
Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log(2400/F(kHz)) + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log(24000/F(kHz)) + 40
1.705 ~ 30	30	30	100 * 30	20log(30) + 40
30 ~ 88	100	3	100	20log(100)
88 ~ 216	150	3	150	20log(150)
216 ~ 960	200	3	200	20log(200)
Above 960	500	3	500	20log(500)

7.1 EUT Operation

EUT Operation: The test was performed in WIFI link mode, the test data were shown in the report.

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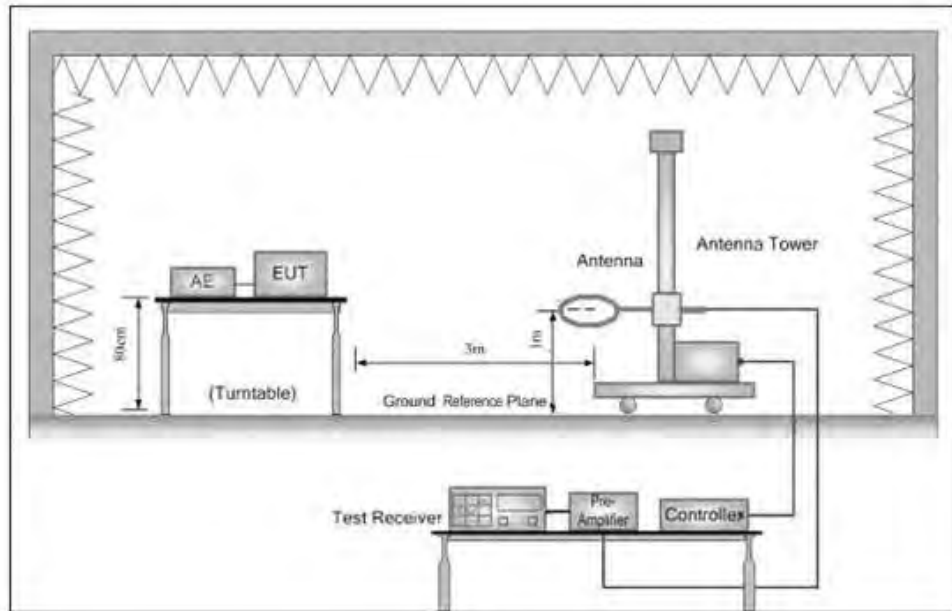
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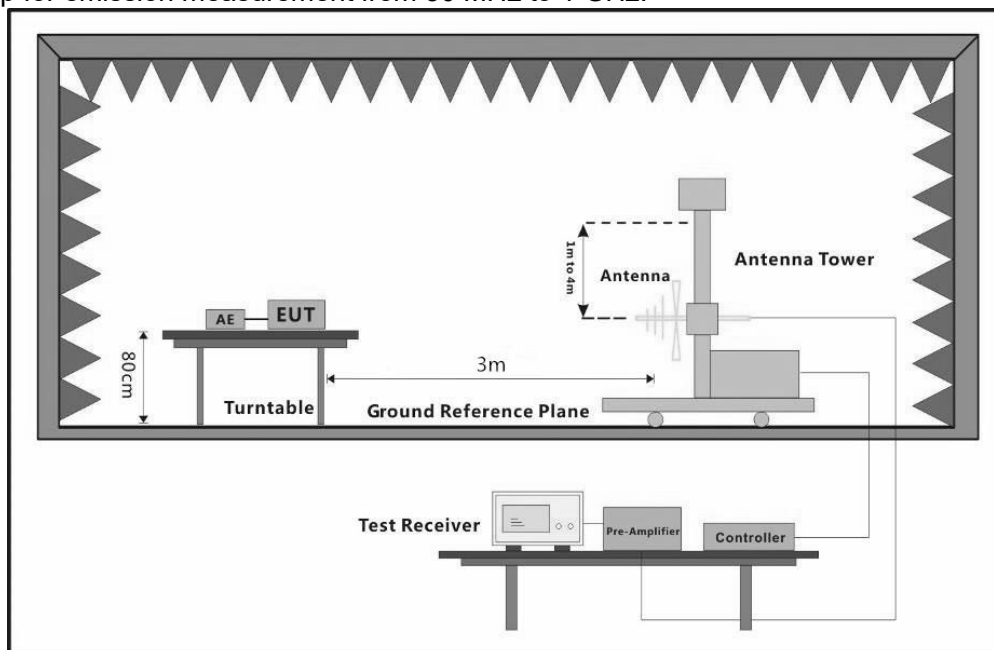
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



1.

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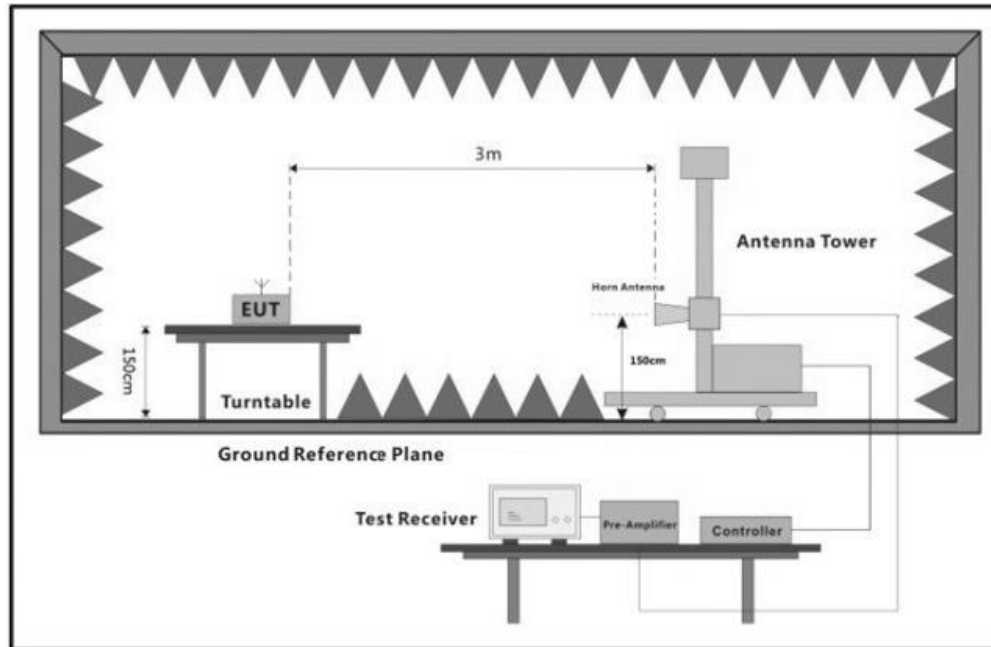
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The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

Sweep SpeedAuto
IF Bandwidth..... 10kHz
Video Bandwidth..... 10kHz
Resolution Bandwidth 10kHz

30MHz ~ 1GHz

Sweep SpeedAuto
Detector PK
Resolution Bandwidth..... 100kHz
Video Bandwidth..... 300kHz

Above 1GHz

Sweep SpeedAuto
Detector PK
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 3MHz
Detector Ave.
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 10Hz

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7.4 Test Procedure

- 1.The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
- 2.The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3.EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- 4.Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5.And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6.Repeat above procedures until the measurements for all frequencies are complete.
- 7.The radiation measurements are performed in X, Y and Z axis positioning (X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), the worst condition was tested putting the eut in Z axis, so the worst data were shown as follow.
- 8.A 2.4GHz high –pass filter is used druing radiated emissions above 1GHz measurement.

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7.6 Summary of Test Results

Wifi:

Radiated Emissions Test (Below 1GHz)

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

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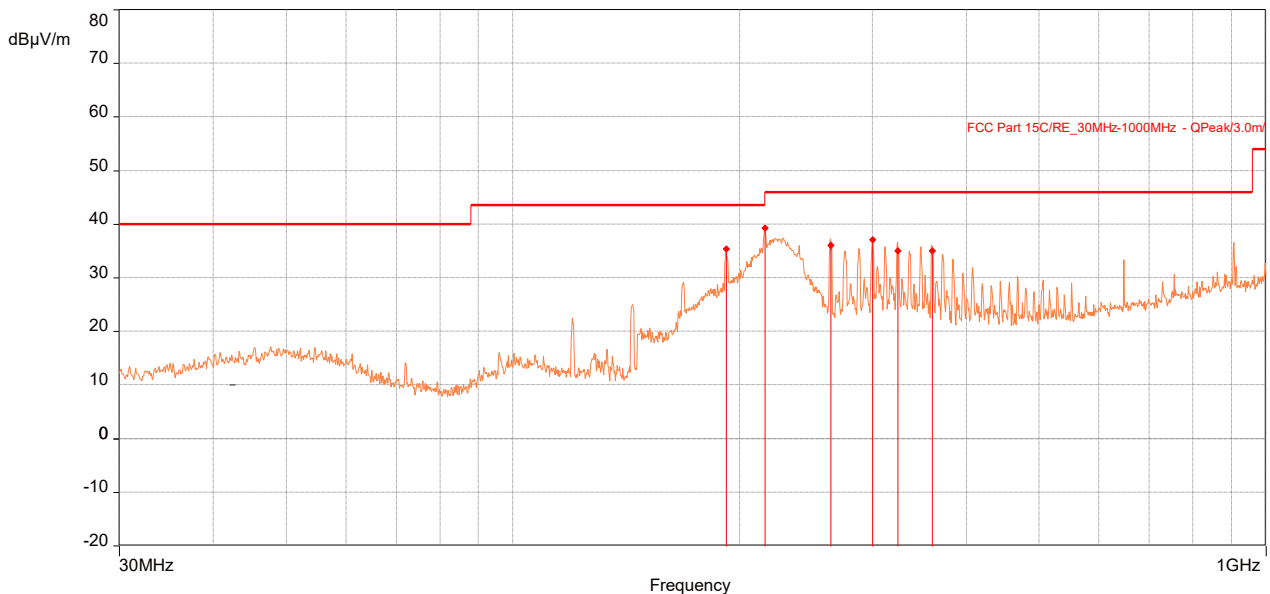
Test Report

No.: AJT220810029EA-1

Radiated Emissions Test (30MHz - 1GHz)

Test Point	Operation Mode	Result
Horizontal	TX mode	PASS

EUT Name	RC TOYS
Operating Condition	DC: 3.7V(battery*1)
Test Condition	Ambient Temperature: 24°C Humidity: 55%RH



Frequency (MHz)	Peak (dBμV/m)	QP (dBμV/m)	QP Lim. (dBμV/m)	Margin (dB)	Angle (°)	Height (m)	Polarization
192.014	39.60	35.43	43.50	-8.07	10.00	1.67	Horizontal
216.021	44.46	39.24	46.00	-6.76	10.00	1.48	Horizontal
264.039	45.32	36.03	46.00	-9.97	343.00	1.05	Horizontal
300.049	50.34	37.08	46.00	-8.92	343.00	1.00	Horizontal
324.008	48.91	35.01	46.00	-10.99	0.00	1.14	Horizontal
360.064	48.55	35.03	46.00	-10.97	329.00	1.00	Horizontal

1.QP is abbreviation of Quasi-Peak
2.Margin = Emission Level - Limit Value
3.The emission levels of other frequencies were more than 20dB margin against the limit

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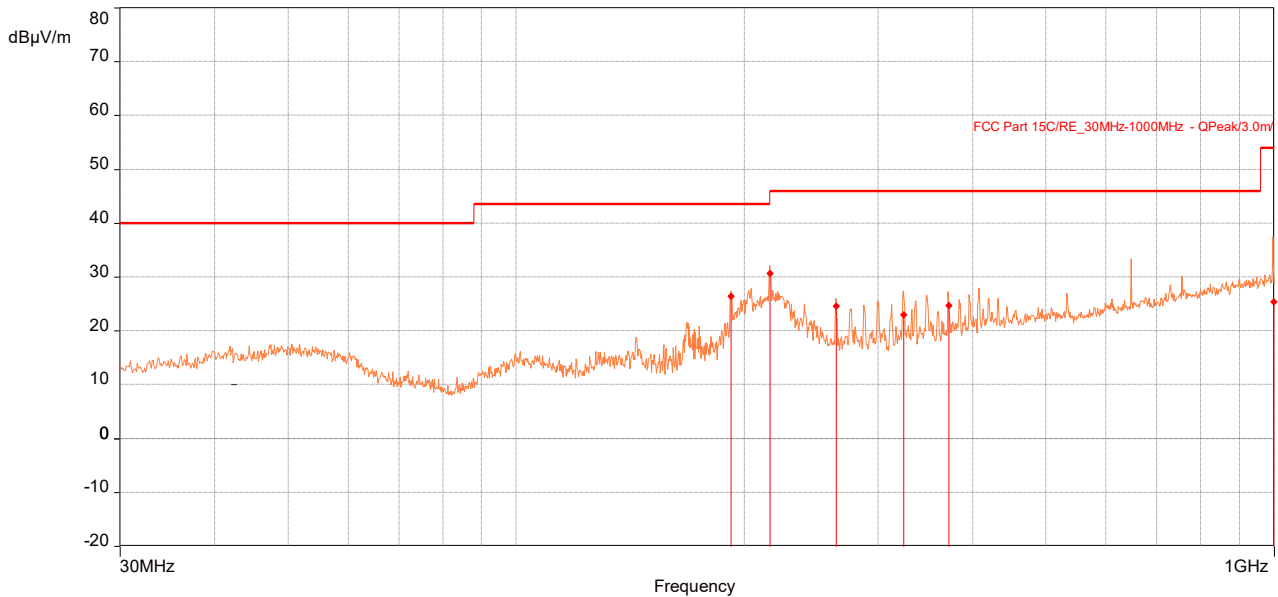
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Test Report

No.: AJT220810029EA-1

Test Point	Operation Mode	Result
Vertical	TX mode	PASS

EUT Name	RC TOYS
Operating Condition	DC: 3.7V(battery*1)
Test Condition	Ambient Temperature: 24°C Humidity: 55%RH



Frequency (MHz)	Peak (dBμV/m)	QP (dBμV/m)	QP Lim. (dBμV/m)	Margin (dB)	Angle (°)	Height (m)	Polarization
192.037	31.26	26.49	43.50	-17.01	118.00	1.85	Vertical
216.045	36.26	30.71	46.00	-15.29	124.00	1.85	Vertical
264.036	34.10	24.67	46.00	-21.33	323.00	1.60	Vertical
324.079	35.97	23.03	46.00	-22.97	236.00	2.00	Vertical
372.111	37.65	24.68	46.00	-21.32	307.00	1.24	Vertical
997.726	37.16	25.47	54.00	-28.53	307.00	1.32	Vertical

- 1.QP is abbreviation of Quasi-Peak
- 2.Margin = Emission Level - Limit Value
- 3.The emission levels of other frequencies were more than 20dB margin against the limit

This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Disagreement against this test report, if any, should be filed with to our company in writing within 15 days of receiving the report. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission.

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Test Report

No.: AJT220810029EA-1

Radiated Emissions Test (Above 1GHz)

Test Condition Ambient Temperature: 25°C Humidity: 60%RH

EUT Name	RC TOYS		
Channel	The Lowest Channel (2412MHz 11B)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3216.05	46.49	54.00	-7.51	1.50	141.00	Horizontal	-2.60	Peak
4823.75	39.62	54.00	-14.38	1.50	150.00	Horizontal	1.46	Peak
5993.3	52.67	54.00	-1.33	1.50	203.00	Horizontal	2.64	Peak
7236.45	43.11	54.00	-10.89	1.50	263.00	Horizontal	8.60	Peak
9648	45.85	54.00	-8.15	1.50	298.00	Horizontal	12.23	Peak
12060.7	49.65	54.00	-4.35	1.50	178.00	Horizontal	15.68	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3199.95	42.45	54.00	-11.55	1.50	344.00	Vertical	-2.55	Peak
4823.75	38.47	54.00	-15.53	1.50	94.00	Vertical	1.46	Peak
6395.8	44.46	54.00	-9.54	1.50	165.00	Vertical	4.61	Peak
7235.3	44.15	54.00	-9.85	1.50	239.00	Vertical	8.60	Peak
9648	49.02	54.00	-4.98	1.50	145.00	Vertical	12.23	Peak
12253.9	52.48	54.00	-1.52	1.50	44.00	Vertical	15.83	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT220810029EA-1

EUT Name	RC TOYS		
Channel	The Lowest Channel (2412MHz 11G)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
2988.35	43.16	54.00	-10.84	1.50	217.00	Horizontal	-3.38	Peak
3216.05	46.36	54.00	-7.64	1.50	137.00	Horizontal	-2.60	Peak
4874.35	37.01	54.00	-16.99	1.50	21.00	Horizontal	0.94	Peak
7311.2	43.33	54.00	-10.67	1.50	294.00	Horizontal	8.32	Peak
9748.05	45.30	54.00	-8.70	1.50	279.00	Horizontal	12.80	Peak
12240.1	52.55	54.00	-1.45	1.50	287.00	Horizontal	15.90	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
2996.4	49.51	54.00	-4.49	1.50	302.00	Vertical	-3.33	Peak
4992.8	52.63	54.00	-1.37	1.50	300.00	Vertical	1.62	Peak
6977.7	51.14	54.00	-2.86	1.50	235.00	Vertical	7.88	Peak
7310.05	44.28	54.00	-9.72	1.50	260.00	Vertical	8.32	Peak
9748.05	45.29	54.00	-8.71	1.50	109.00	Vertical	12.80	Peak
12184.9	50.59	54.00	-3.41	1.50	307.00	Vertical	16.14	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT220810029EA-1

EUT Name	RC TOYS		
Channel	The Lowest Channel (2412MHz 11N)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
2986.05	48.21	54.00	-5.79	1.50	35.00	Horizontal	-3.35	Peak
3216.05	46.17	54.00	-7.83	1.50	143.00	Horizontal	-2.60	Peak
4824.9	40.00	54.00	-14.00	1.50	136.00	Horizontal	1.44	Peak
7235.3	43.91	54.00	-10.09	1.50	190.00	Horizontal	8.60	Peak
9648	48.39	54.00	-5.61	1.50	42.00	Horizontal	12.23	Peak
12060.7	49.06	54.00	-4.94	1.50	352.00	Horizontal	15.68	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3333.35	40.79	54.00	-13.21	1.50	167.00	Vertical	-2.84	Peak
4824.9	38.40	54.00	-15.60	1.50	12.00	Vertical	1.44	Peak
4993.95	42.99	54.00	-11.01	1.50	246.00	Vertical	1.62	Peak
7235.3	43.09	54.00	-10.91	1.50	147.00	Vertical	8.60	Peak
9648	48.27	54.00	-5.73	1.50	157.00	Vertical	12.23	Peak
12060.7	49.22	54.00	-4.78	1.50	42.00	Vertical	15.68	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT220810029EA-1

EUT Name	RC TOYS		
Channel	The Middle Channel (2437MHz 11B)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3249.4	47.30	54.00	-6.70	1.50	139.00	Horizontal	-2.55	Peak
4874.35	39.03	54.00	-14.97	1.50	134.00	Horizontal	0.94	Peak
7310.05	43.47	54.00	-10.53	1.50	1.00	Horizontal	8.32	Peak
9748.05	46.41	54.00	-7.59	1.50	169.00	Horizontal	12.80	Peak
11555.85	52.73	54.00	-1.27	1.50	76.00	Horizontal	16.44	Peak
12207.9	51.92	54.00	-2.08	1.50	142.00	Horizontal	16.06	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3193.05	48.20	54.00	-5.80	1.50	327.00	Vertical	-2.57	Peak
4874.35	39.72	54.00	-14.28	1.50	231.00	Vertical	0.94	Peak
6998.4	48.30	54.00	-5.70	1.50	254.00	Vertical	8.05	Peak
7310.05	44.13	54.00	-9.87	1.50	298.00	Vertical	8.32	Peak
9748.05	46.82	54.00	-7.18	1.50	171.00	Vertical	12.80	Peak
12341.3	52.19	54.00	-1.81	1.50	352.00	Vertical	15.61	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT220810029EA-1

EUT Name	RC TOYS		
Channel	The Middle Channel (2437MHz 11G)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3249.4	49.56	54.00	-4.44	1.50	148.00	Horizontal	-2.55	Peak
4874.35	39.86	54.00	-14.14	1.50	301.00	Horizontal	0.94	Peak
4976.7	48.60	54.00	-5.40	1.50	342.00	Horizontal	1.55	Peak
7310.05	42.90	54.00	-11.10	1.50	214.00	Horizontal	8.32	Peak
9748.05	45.61	54.00	-8.39	1.50	151.00	Horizontal	12.80	Peak
12303.35	52.17	54.00	-1.83	1.50	237.00	Horizontal	15.67	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4259.1	44.18	54.00	-9.82	1.50	184.00	Vertical	-0.76	Peak
4874.35	39.55	54.00	-14.45	1.50	229.00	Vertical	0.94	Peak
4987.05	48.55	54.00	-5.45	1.50	114.00	Vertical	1.62	Peak
7311.2	42.85	54.00	-11.15	1.50	89.00	Vertical	8.32	Peak
9748.05	46.74	54.00	-7.26	1.50	12.00	Vertical	12.80	Peak
12169.95	51.90	54.00	-2.10	1.50	82.00	Vertical	16.19	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT220810029EA-1

EUT Name	RC TOYS		
Channel	The Middle Channel (2437MHz 11N)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3249.4	47.28	54.00	-6.72	1.50	150.00	Horizontal	-2.55	Peak
4874.35	40.65	54.00	-13.35	1.50	300.00	Horizontal	0.94	Peak
5993.3	44.67	54.00	-9.33	1.50	90.00	Horizontal	2.64	Peak
7310.05	42.94	54.00	-11.06	1.50	352.00	Horizontal	8.32	Peak
9748.05	45.37	54.00	-8.63	1.50	278.00	Horizontal	12.80	Peak
12298.75	51.79	54.00	-2.21	1.50	253.00	Horizontal	15.68	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
2998.7	41.85	54.00	-12.15	1.50	181.00	Vertical	-3.28	Peak
4874.35	38.94	54.00	-15.06	1.50	240.00	Vertical	0.94	Peak
4987.05	41.24	54.00	-12.76	1.50	113.00	Vertical	1.62	Peak
7311.2	43.45	54.00	-10.55	1.50	304.00	Vertical	8.32	Peak
9748.05	47.93	54.00	-6.07	1.50	244.00	Vertical	12.80	Peak
11461.55	52.12	54.00	-1.88	1.50	272.00	Vertical	16.35	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT220810029EA-1

EUT Name	RC TOYS		
Channel	The Highest Channel (2462MHz 11B)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3282.75	47.55	54.00	-6.45	1.50	147.00	Horizontal	-2.87	Peak
4923.8	39.87	54.00	-14.13	1.50	298.00	Horizontal	1.04	Peak
4977.85	49.34	54.00	-4.66	1.50	335.00	Horizontal	1.57	Peak
7385.95	43.54	54.00	-10.46	1.50	258.00	Horizontal	8.49	Peak
9848.1	48.27	54.00	-5.73	1.50	11.00	Horizontal	13.09	Peak
12229.75	51.99	54.00	-2.01	1.50	68.00	Horizontal	15.95	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3194.2	42.01	54.00	-11.99	1.50	141.00	Vertical	-2.57	Peak
4923.8	39.34	54.00	-14.66	1.50	239.00	Vertical	1.04	Peak
4984.75	47.12	54.00	-6.88	1.50	299.00	Vertical	1.62	Peak
7385.95	42.63	54.00	-11.37	1.50	52.00	Vertical	8.49	Peak
9848.1	48.22	54.00	-5.78	1.50	236.00	Vertical	13.09	Peak
12349.35	52.11	54.00	-1.89	1.50	2.00	Vertical	15.60	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Tel: 86-754-85860999 Fax: 86-754-86984098 Website: www.ajtesting.com Email: info@ajtesting.com

Test Report

No.: AJT220810029EA-1

EUT Name	RC TOYS		
Channel	The Highest Channel (2462MHz 11G)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3282.75	47.53	54.00	-6.47	1.50	152.00	Horizontal	-2.87	Peak
4923.8	39.75	54.00	-14.25	1.50	145.00	Horizontal	1.04	Peak
5992.15	48.27	54.00	-5.73	1.50	189.00	Horizontal	2.64	Peak
7385.95	44.34	54.00	-9.66	1.50	143.00	Horizontal	8.49	Peak
9848.1	47.78	54.00	-6.22	1.50	26.00	Horizontal	13.09	Peak
12319.45	52.83	54.00	-1.17	1.50	256.00	Horizontal	15.65	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3543.8	40.70	54.00	-13.30	1.50	256.00	Vertical	-2.00	Peak
4249.9	40.83	54.00	-13.17	1.50	316.00	Vertical	-0.83	Peak
4982.45	51.51	54.00	-2.49	1.50	299.00	Vertical	1.61	Peak
7385.95	44.20	54.00	-9.80	1.50	178.00	Vertical	8.49	Peak
9848.1	49.21	54.00	-4.79	1.50	231.00	Vertical	13.09	Peak
12309.1	50.52	54.00	-3.48	1.50	49.00	Vertical	15.66	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT220810029EA-1

EUT Name	RC TOYS		
Channel	The Highest Channel (2462MHz 11N)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3282.75	48.04	54.00	-5.96	1.50	152.00	Horizontal	-2.87	Peak
4923.8	40.22	54.00	-13.78	1.50	297.00	Horizontal	1.04	Peak
5988.7	48.09	54.00	-5.91	1.50	271.00	Horizontal	2.63	Peak
7385.95	43.22	54.00	-10.78	1.50	293.00	Horizontal	8.49	Peak
9848.1	47.26	54.00	-6.74	1.50	48.00	Horizontal	13.09	Peak
12309.1	50.42	54.00	-3.58	1.50	255.00	Horizontal	15.66	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
3196.5	45.85	54.00	-8.15	1.50	335.00	Vertical	-2.56	Peak
4998.55	49.35	54.00	-4.65	1.50	305.00	Vertical	1.62	Peak
5988.7	50.49	54.00	-3.51	1.50	49.00	Vertical	2.63	Peak
7385.95	43.97	54.00	-10.03	1.50	320.00	Vertical	8.49	Peak
9848.1	48.29	54.00	-5.71	1.50	164.00	Vertical	13.09	Peak
12309.1	50.68	54.00	-3.32	1.50	161.00	Vertical	15.66	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT220810029EA-1

8 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013
Test Result: PASS
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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

8.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
 - (a) Set instrument center frequency to DTS channel center frequency.
 - (b) Set the span to ≈ 1.5 times the DTS bandwidth.
 - (c) Set the RBW = 100 kHz.
 - (d) Set the VBW $\approx [3 \times \text{RBW}]$.
 - (e) Detector = peak.
 - (f) Sweep time = auto couple.
 - (g) Trace mode = max hold.
 - (h) Allow trace to fully stabilize.
 - (i) Use the peak marker function to determine the maximum PSD level.Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

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Test Report

No.: AJT220810029EA-1

8.2 Test Result

TestMode	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	-14.37	-14.37	---	PASS
		30~1000	-14.37	-63.37	≤ -34.37	PASS
		1000~26500	-14.37	-44.71	≤ -34.37	PASS
	2437	Reference	-15.41	-15.41	---	PASS
		30~1000	-15.41	-61.98	≤ -35.41	PASS
		1000~26500	-15.41	-44.49	≤ -35.41	PASS
	2462	Reference	-15.34	-15.34	---	PASS
		30~1000	-15.34	-61.47	≤ -35.34	PASS
		1000~26500	-15.34	-44.21	≤ -35.34	PASS
11G	2412	Reference	-13.15	-13.15	---	PASS
		30~1000	-13.15	-62.73	≤ -33.15	PASS
		1000~26500	-13.15	-44.41	≤ -33.15	PASS
	2437	Reference	-14.18	-14.18	---	PASS
		30~1000	-14.18	-61.96	≤ -34.18	PASS
		1000~26500	-14.18	-44.77	≤ -34.18	PASS
	2462	Reference	-13.99	-13.99	---	PASS
		30~1000	-13.99	-61.02	≤ -33.99	PASS
		1000~26500	-13.99	-44.23	≤ -33.99	PASS
802.11n HT20	2412	Reference	-13.20	-13.20	---	PASS
		30~1000	-13.20	-62.25	≤ -33.2	PASS
		1000~26500	-13.20	-44.58	≤ -33.2	PASS
	2437	Reference	-14.03	-14.03	---	PASS
		30~1000	-14.03	-61.65	≤ -34.03	PASS
		1000~26500	-14.03	-43.75	≤ -34.03	PASS
	2462	Reference	-13.94	-13.94	---	PASS
		30~1000	-13.94	-61.15	≤ -33.94	PASS
		1000~26500	-13.94	-44.28	≤ -33.94	PASS

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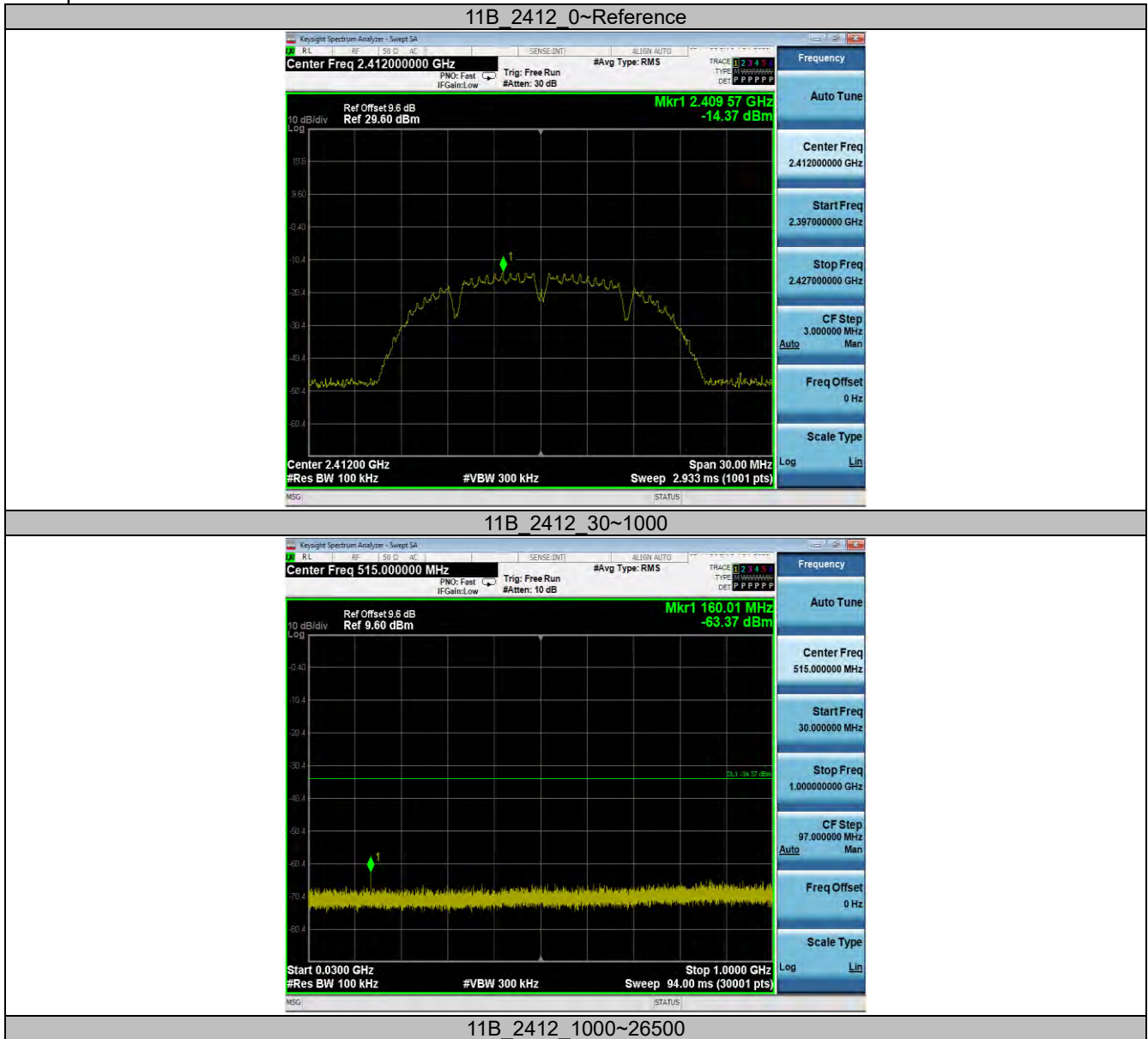
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Test Report

No.: AJT220810029EA-1

Test plot



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Test Report

No.: AJT220810029EA-1



11B_2437_0~Reference



11B_2437_30~1000

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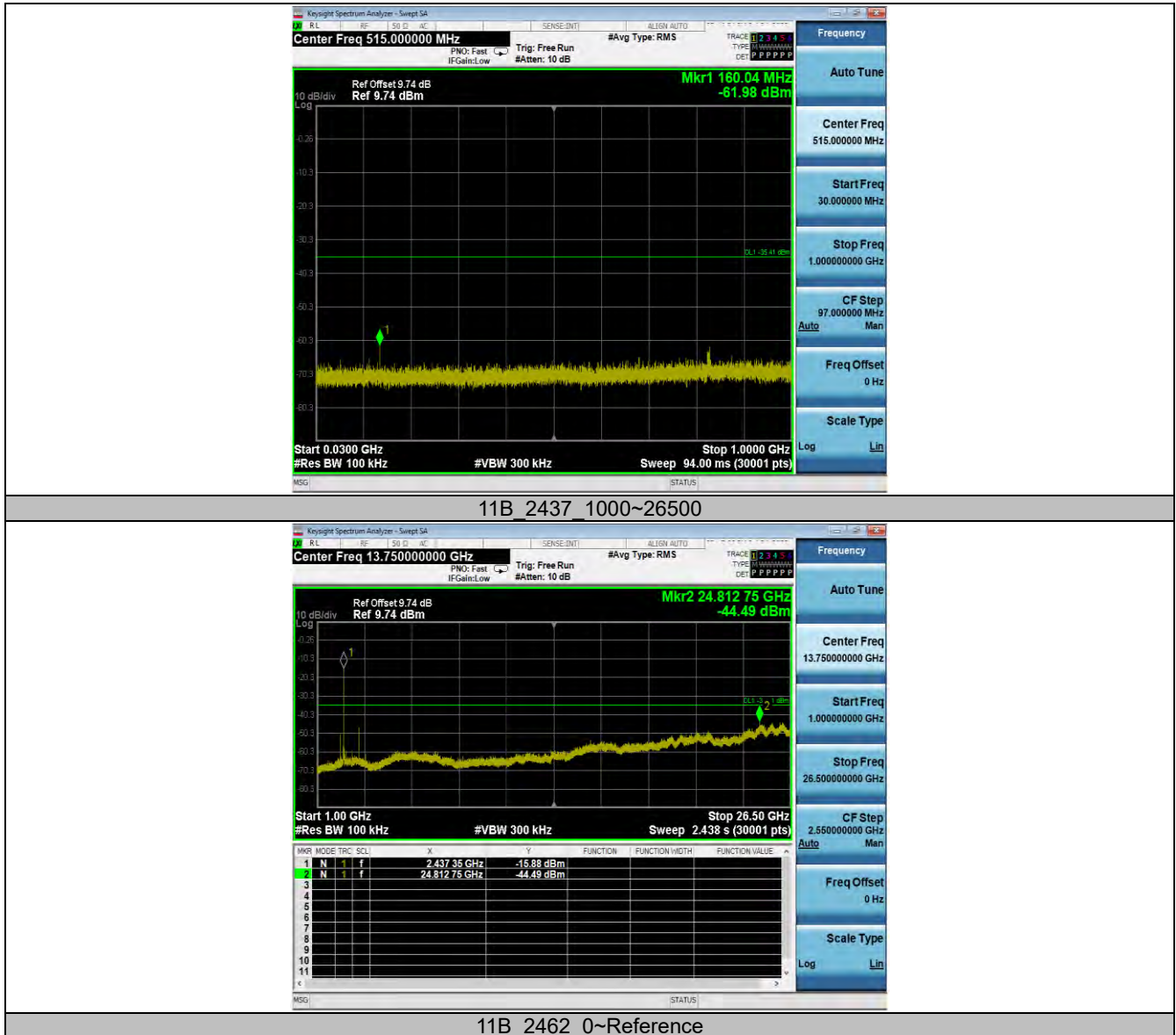
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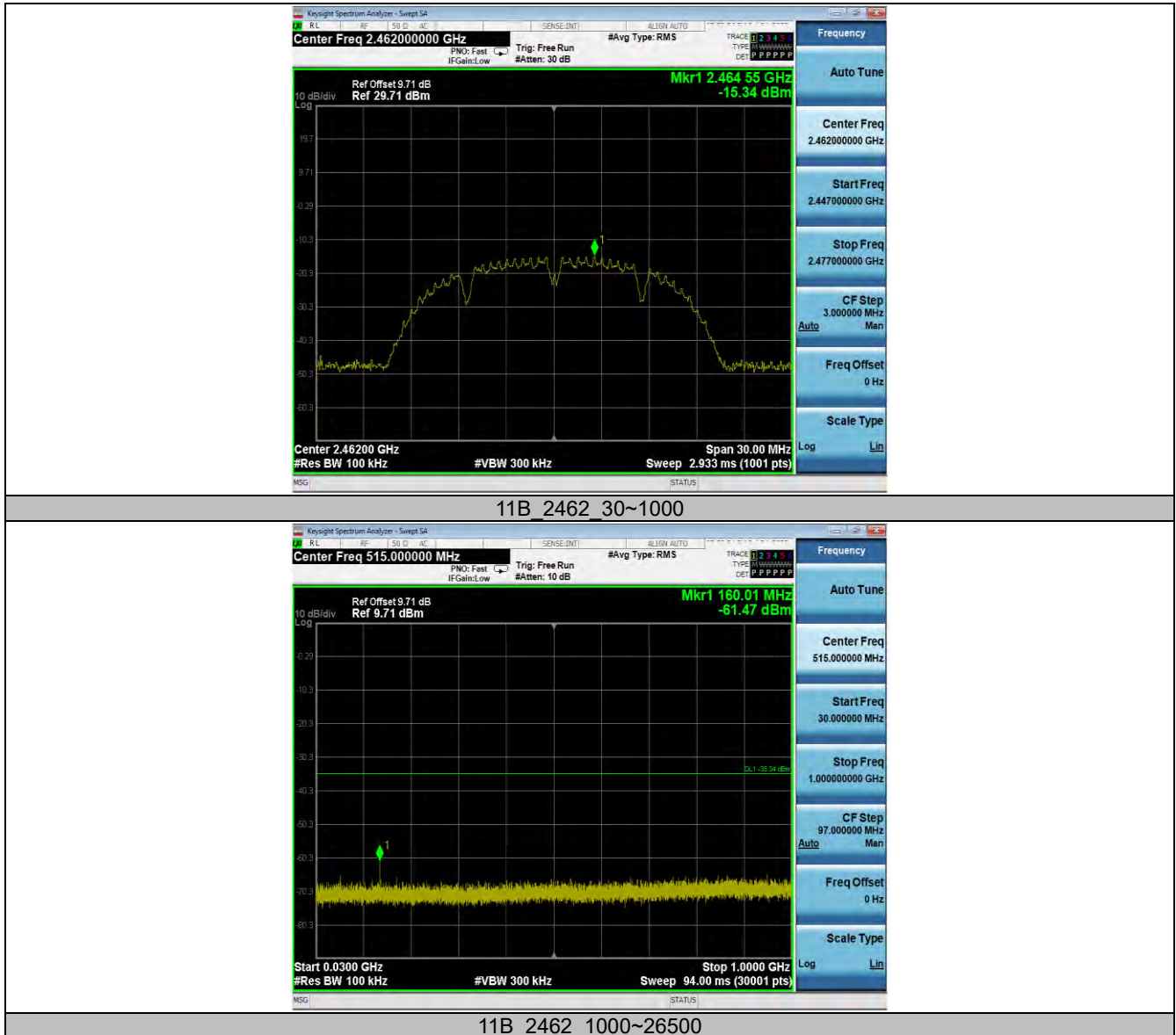
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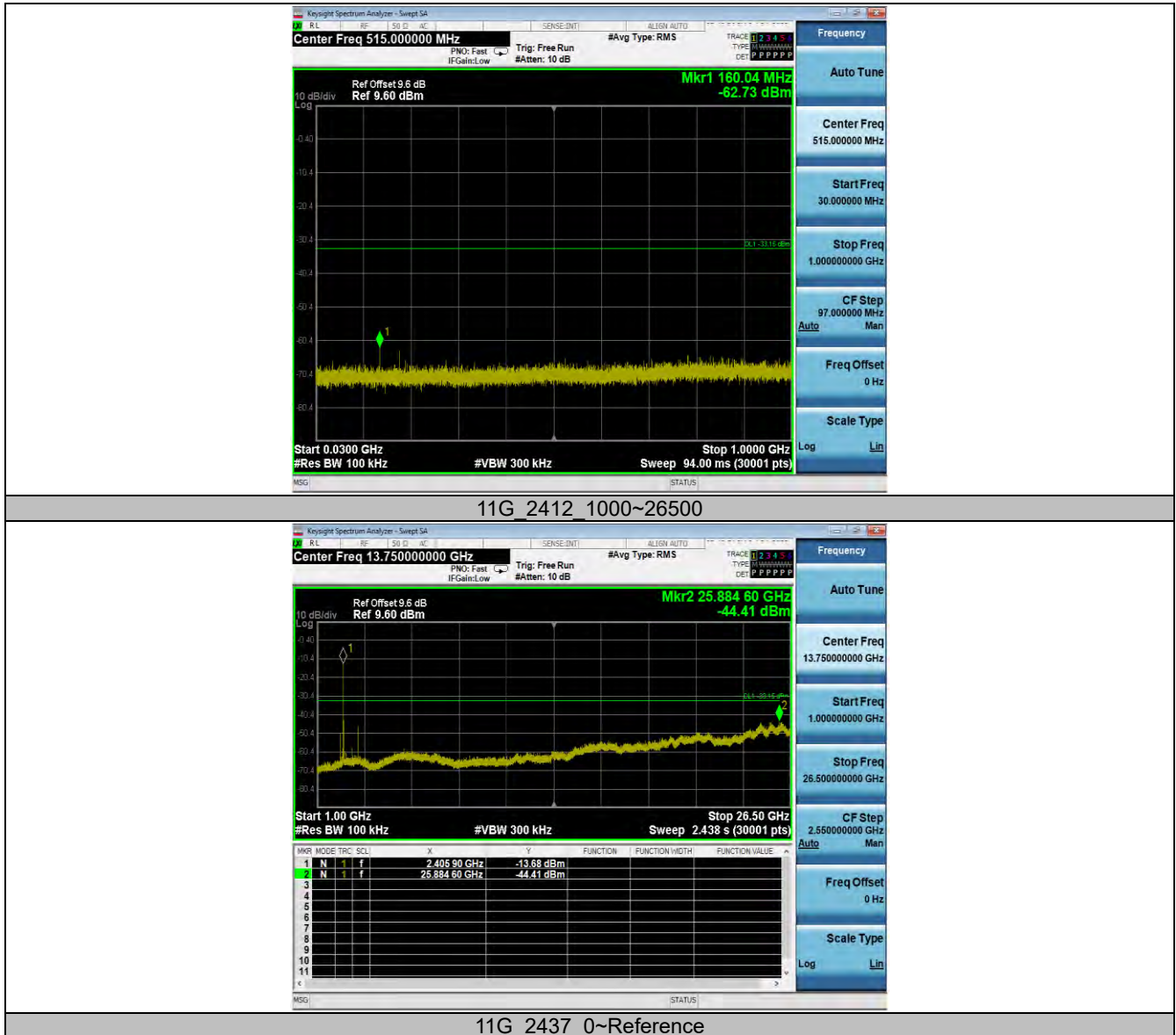
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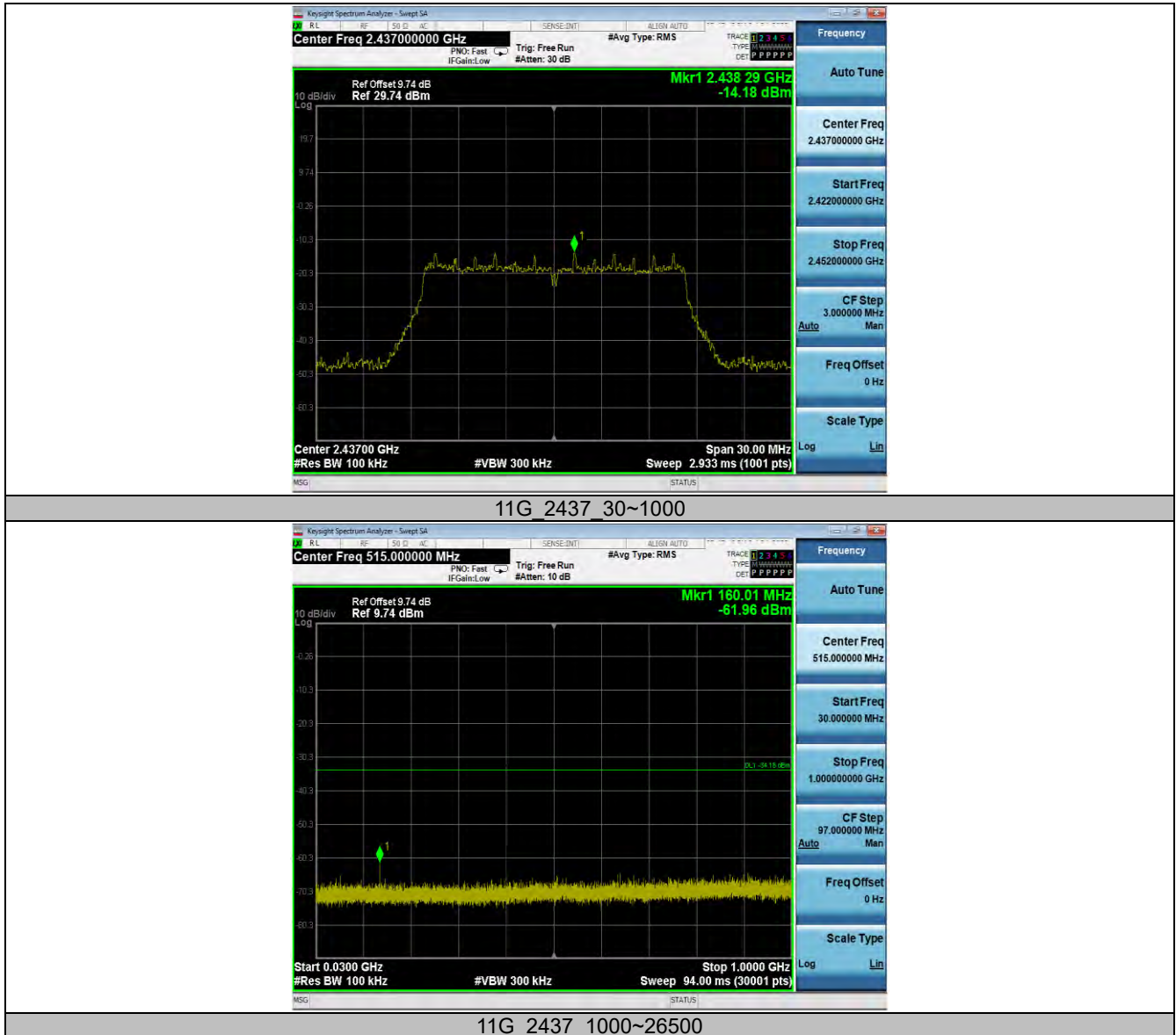
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Test Report

No.: AJT220810029EA-1



11G_2462_0~Reference



11G_2462_30~1000

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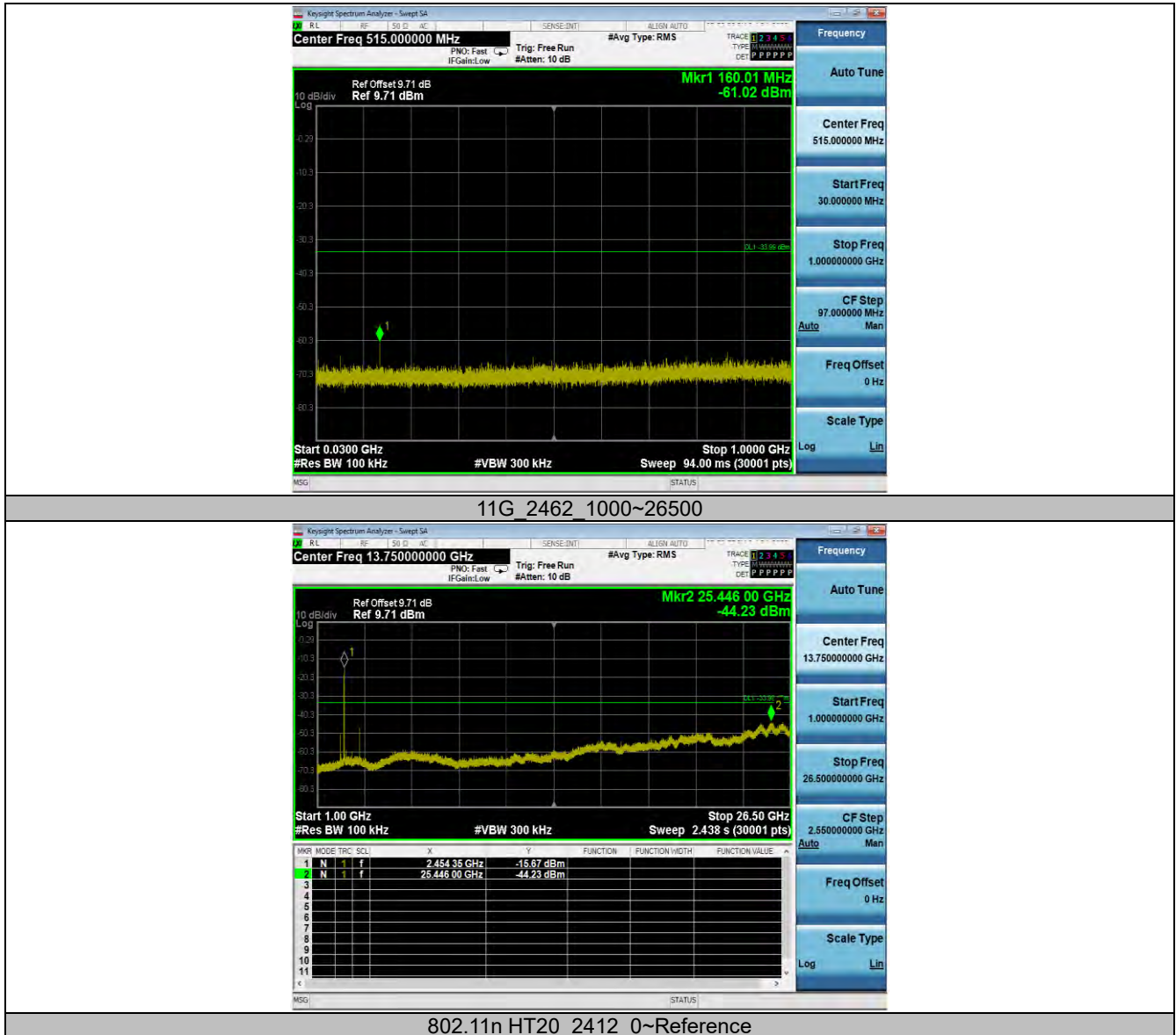
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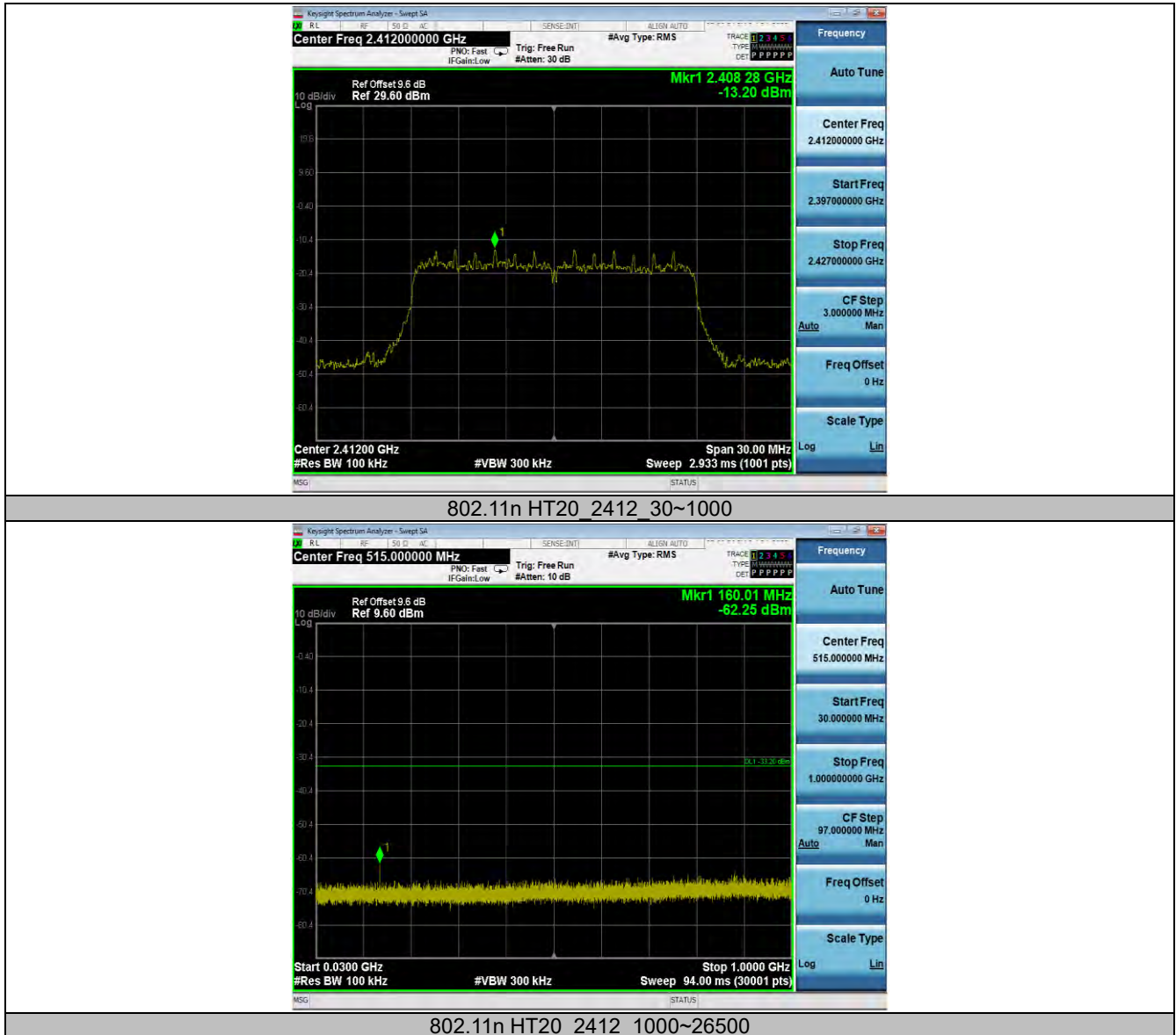
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Test Report

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802.11n HT20_2437_0~Reference



802.11n HT20_2437_30~1000

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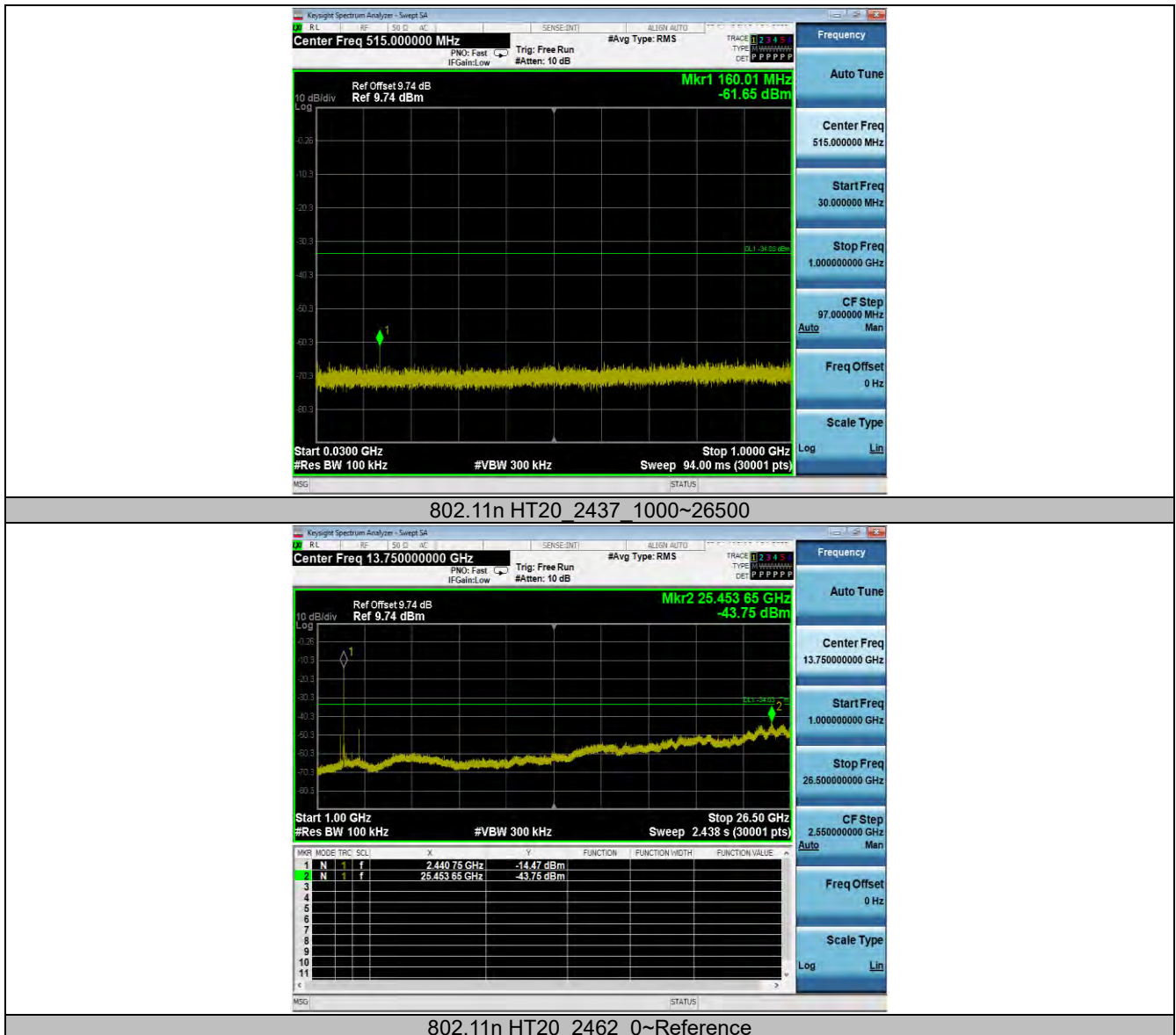
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Test Report

No.: AJT220810029EA-1

9 Duty Cycle

TestMode	Channel	On Time [ms]	Transmission Period [ms]	Duty Cycle [%]	Average Factor(dB)
11B	2412	1.23	2.02	60.89	-4.31
	2437	1.23	2.01	61.19	-4.27
	2462	1.23	2.02	60.89	-4.31
11G	2412	0.54	1.02	52.94	-5.52
	2437	0.55	1.02	53.92	-5.37
	2462	0.55	1.01	54.46	-5.28
802.11n HT20	2412	0.54	1.01	53.47	-5.44
	2437	0.55	1.02	53.92	-5.37
	2462	0.54	1.02	52.94	-5.52

Remark:

Duty cycle=On Time/period

Duty cycle factor=10*log (1/Duty cycle)

Average factor=20*log (Duty cycle)

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Test plot



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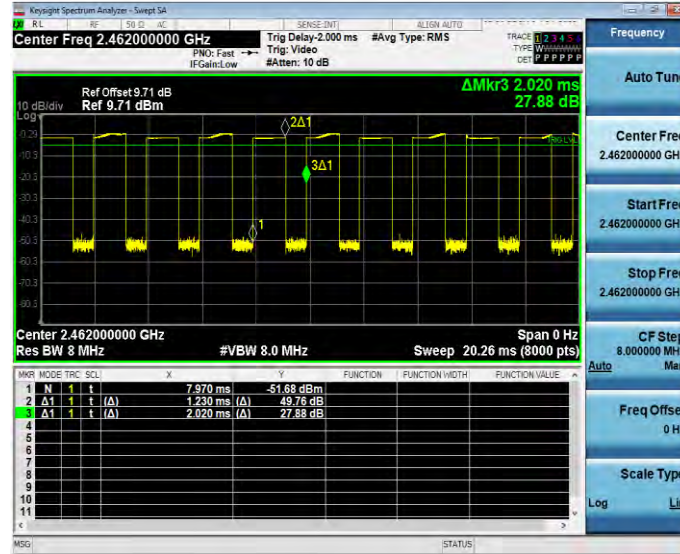
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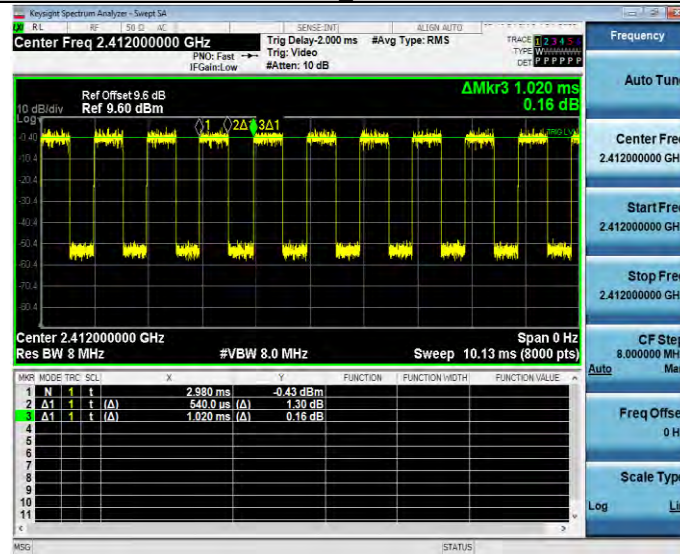
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Test Report

No.: AJT220810029EA-1



11G_2412



11G_2437

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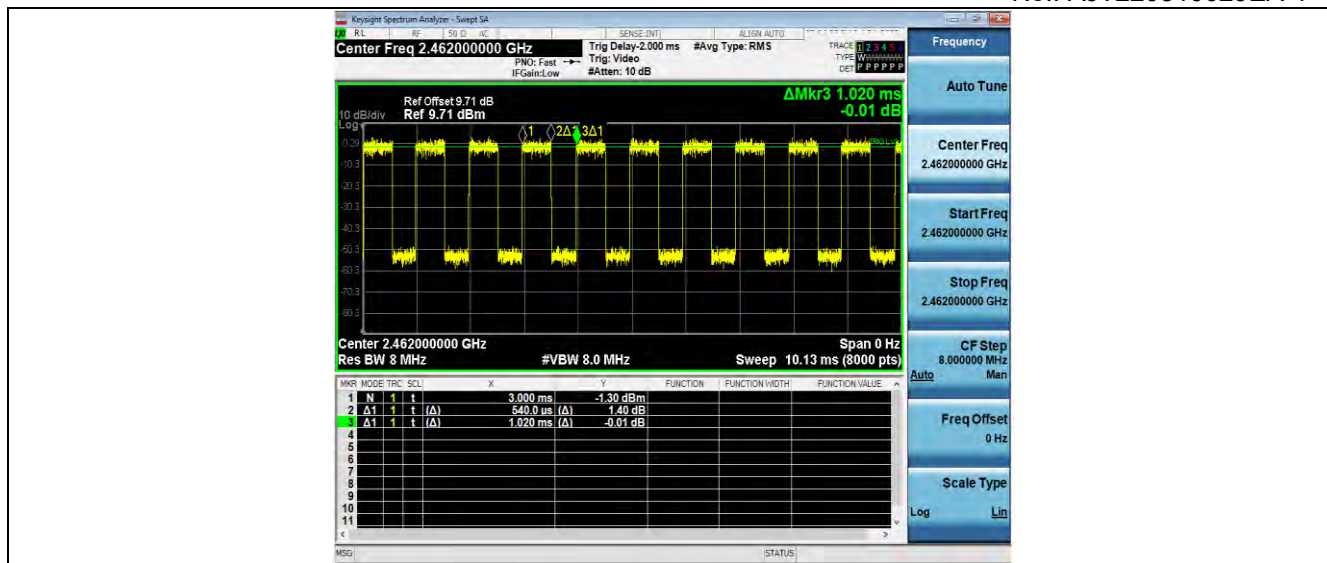
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Test Report

No.: AJT220810029EA-1

10 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

Test Limit: Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band 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)).

Test Mode: Transmitting

10.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

10.2 Test Result

Test result plots shown as follows:

TestMode	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	-14.47	-55.58	≤-44.47	PASS
	High	2462	-15.66	-60.28	≤-45.66	PASS
11G	Low	2412	-13.20	-47.16	≤-43.2	PASS
	High	2462	-14.19	-56.12	≤-44.19	PASS
802.11n HT20	Low	2412	-13.20	-45.8	≤-43.2	PASS
	High	2462	-14.23	-55.92	≤-44.23	PASS

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Test Report

No.: AJT220810029EA-1

Test plot



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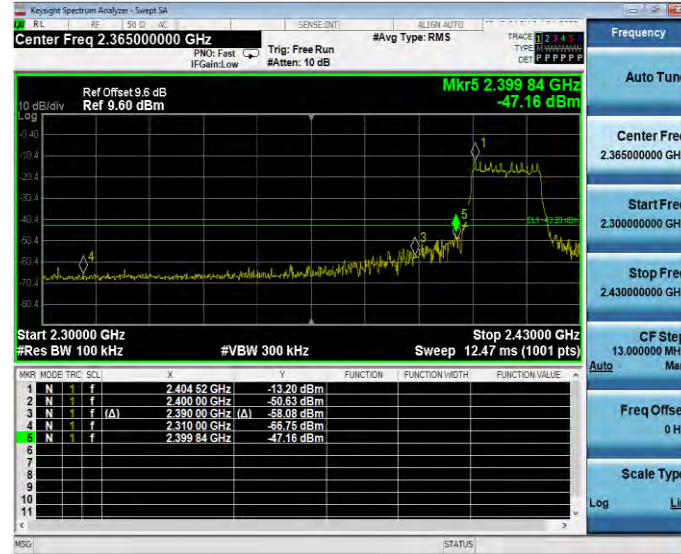
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Test Report

No.: AJT220810029EA-1



11G_High_2462



802.11n HT20_Low_2412

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Test Report

No.: AJT220810029EA-1



802.11n HT20_High_2462



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Test Report

No.: AJT220810029EA-1

11 6 dB Bandwidth and 99% Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

11.1 Test Procedure:

- 1.Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2.6dB Bandwidth Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz
99% Bandwidth Set the spectrum analyzer: RBW = 1~5% DTS OBW, VBW = 3 RBW

11.2 Test Result:

Test Mode	Channel	6dB BW [MHz]	OCB [MHz]
11B	2412	13.600	16.551
	2437	13.640	16.660
	2462	13.600	16.686
11G	2412	16.440	17.146
	2437	16.480	17.075
	2462	16.480	17.207
802.11n HT20	2412	17.200	17.701
	2437	17.080	17.770
	2462	17.160	17.810

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Test Report

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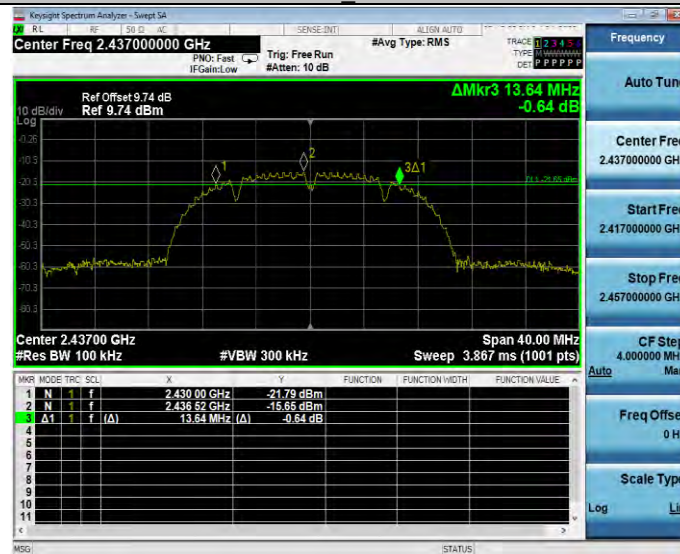
Test result plot:

6 dB Bandwidth

11B_2412



11B_2437



11B_2462

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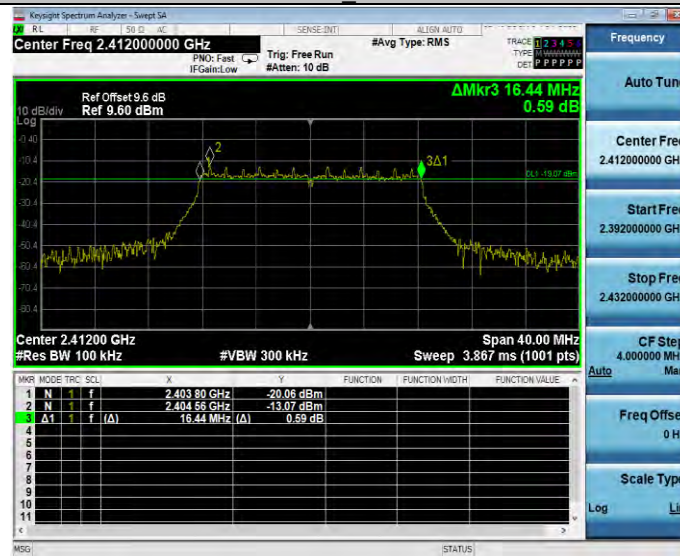
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Test Report

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11G 2412



11G 2437

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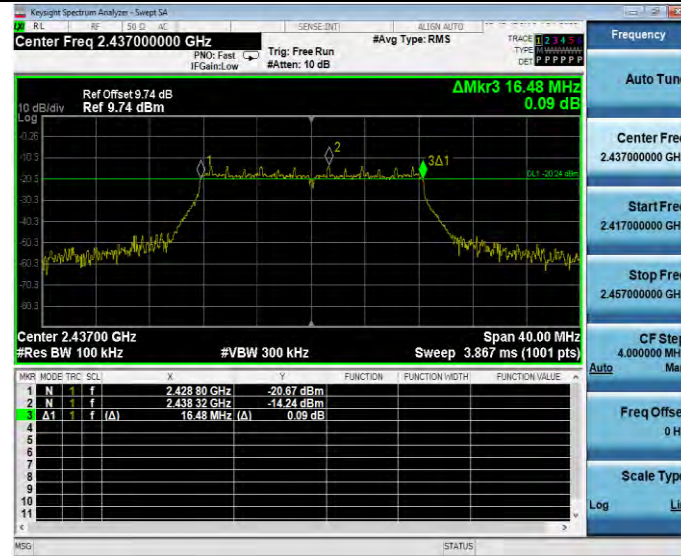
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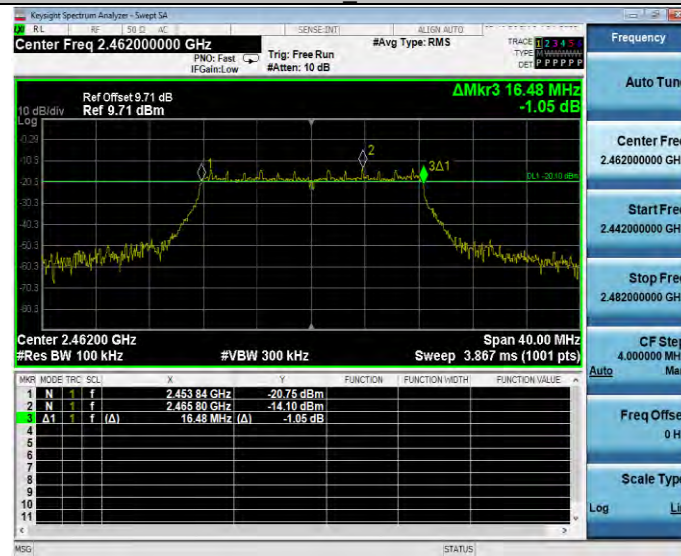
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Test Report

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11G_2462



802.11n HT20_2412

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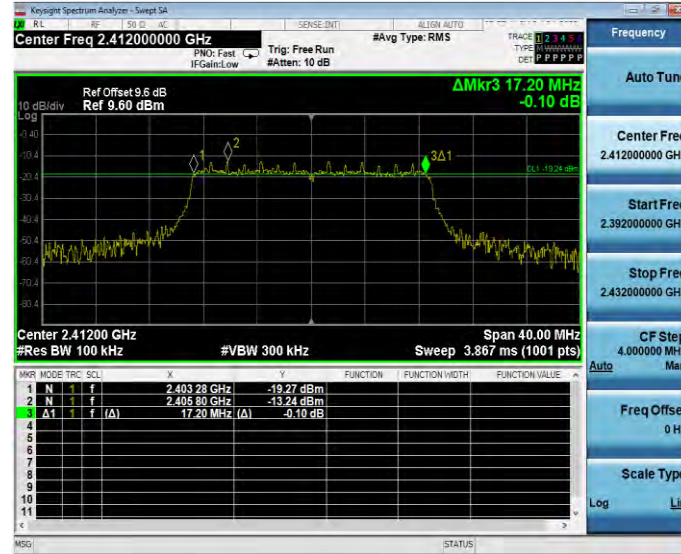
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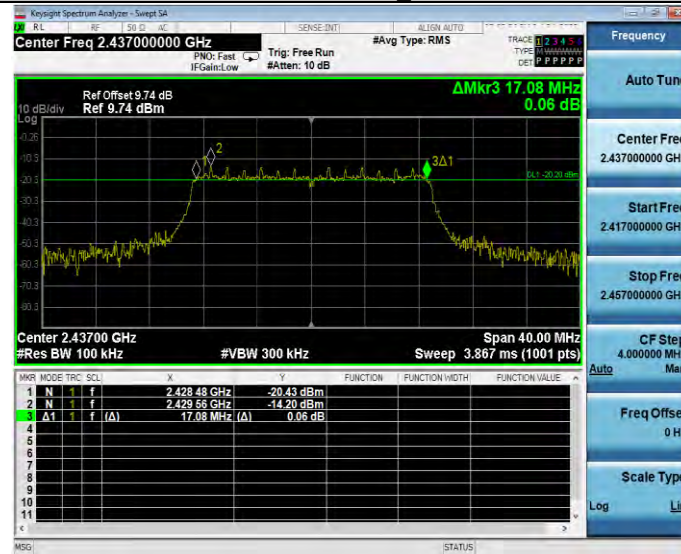
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802.11n HT20_2437



802.11n HT20_2462

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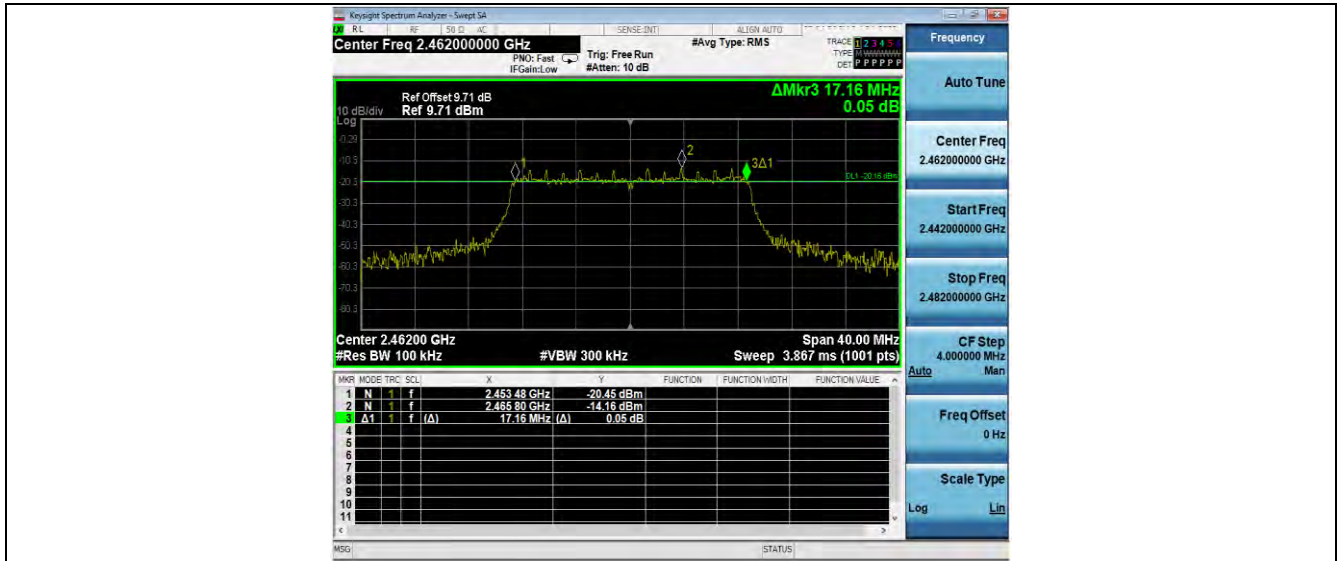
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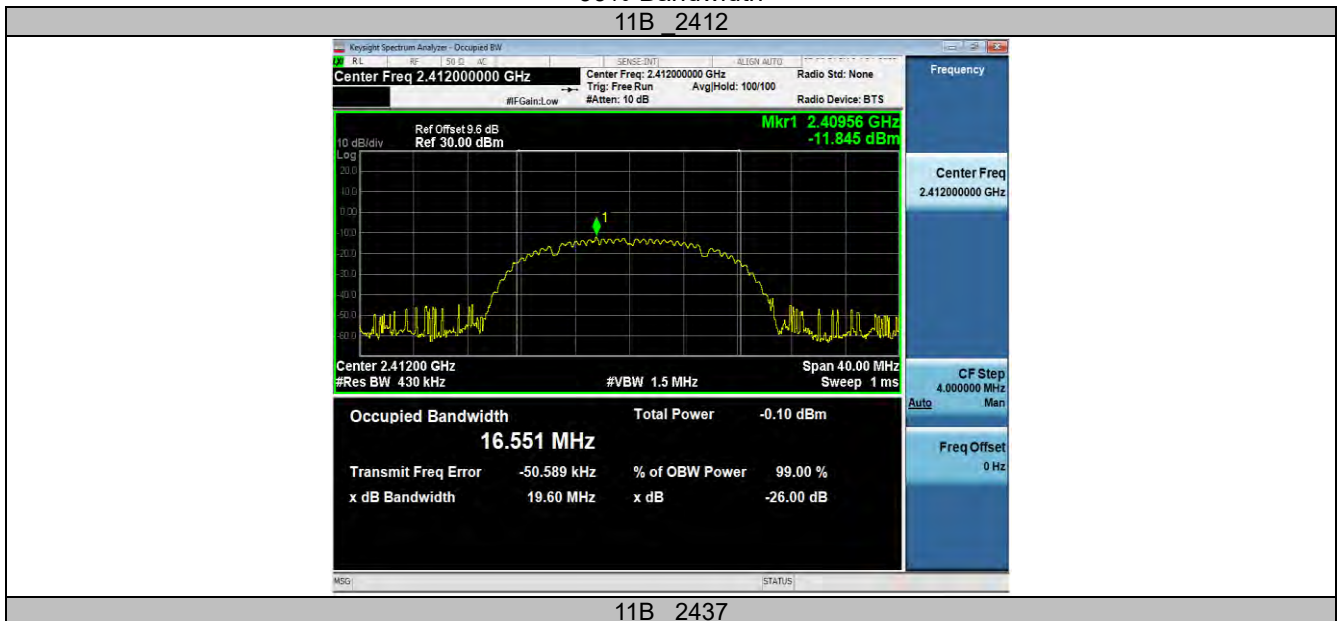
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Test Report

No.: AJT220810029EA-1



99% Bandwidth
11B_2412



11B_2437

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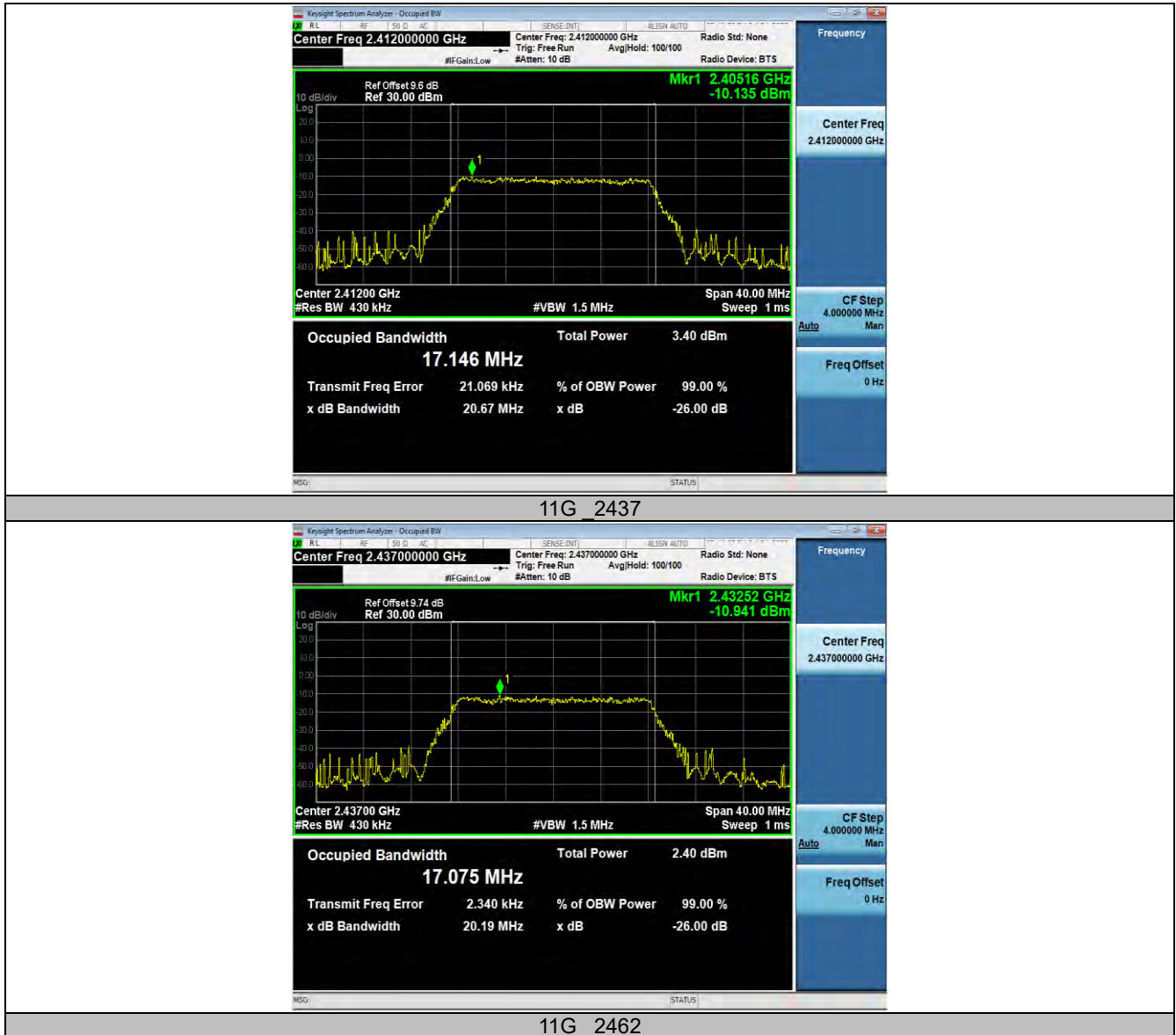
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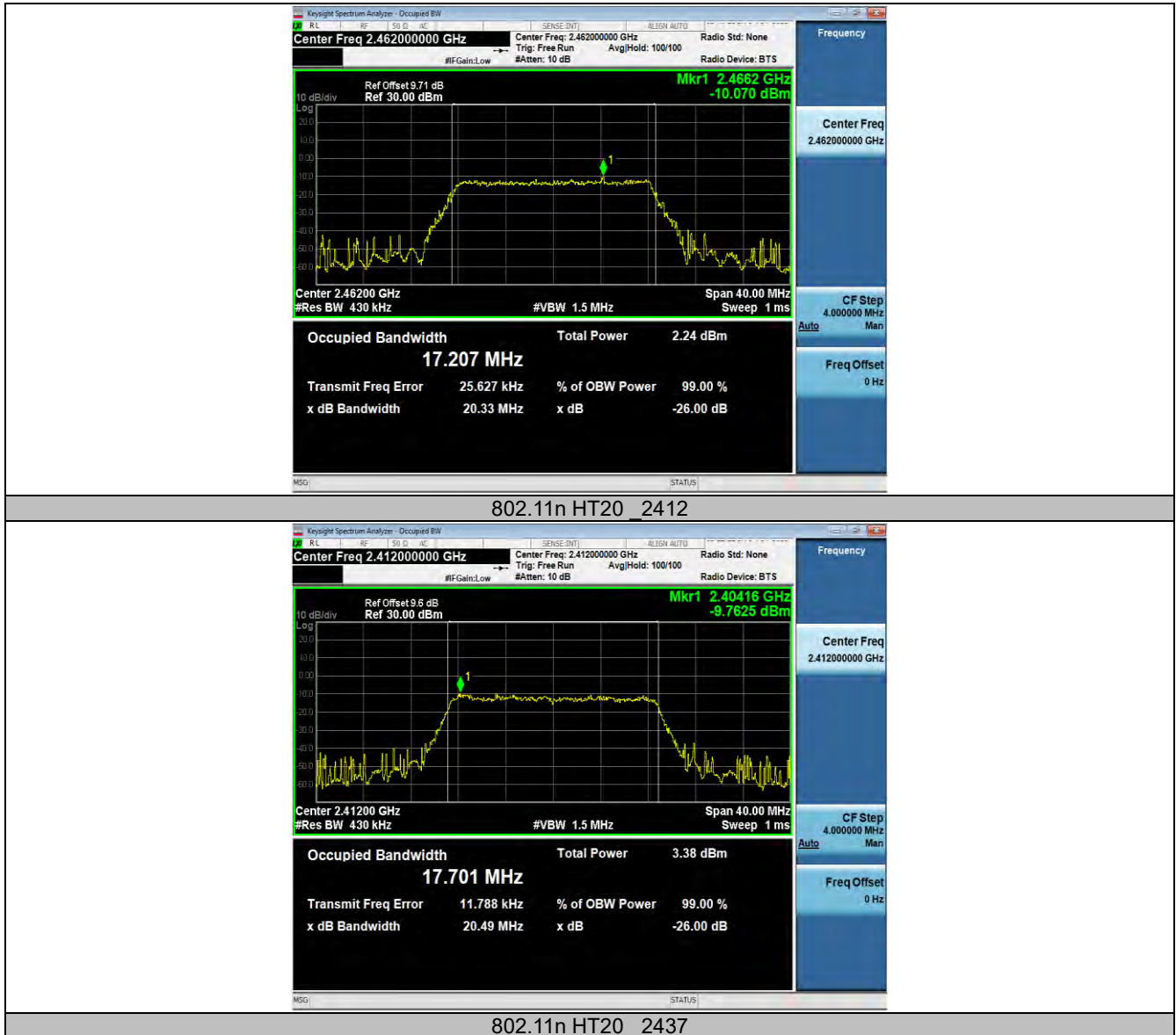
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Test Report

No.: AJT220810029EA-1

12 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

12.1 Test Procedure:

KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019

section 8.3.1.1 (For BLE)

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- (a) Set the RBW \geq DTS bandwidth.
- (b) Set VBW $\geq 3 \times$ RBW.
- (c) Set span $\geq 3 \times$ RBW
- (d) Sweep time = auto couple.
- (e) Detector = peak.
- (f) Trace mode = max hold.
- (g) Allow trace to fully stabilize.
- (h) Use peak marker function to determine the peak amplitude level.

section 8.3.1.2 (For WIFI)

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

- (a) Set the RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- (b) Set the VBW $\geq 3 \times$ RBW
- (c) Set the span $\geq 1.5 \times$ OBW.
- (d) Detector = RMS.
- (e) Sweep time = auto couple.
- (f) trigger = free run.
- (g) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\geq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- (h) Trace average at least 100 traces in power averaging (rms) mode.
- (i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

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Test Report

No.: AJT220810029EA-1

12.2 Test Result:

TestMode	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	2412	-3.15	≤30	PASS
	2437	-4.33	≤30	PASS
	2462	-4.19	≤30	PASS
11G	2412	-2.18	≤30	PASS
	2437	-3.42	≤30	PASS
	2462	-3.40	≤30	PASS
802.11n HT20	2412	-2.37	≤30	PASS
	2437	-3.35	≤30	PASS
	2462	-3.37	≤30	PASS

Maximum output power= Conducted output power(Including the Cable loss)+ Duty Cycle Factor

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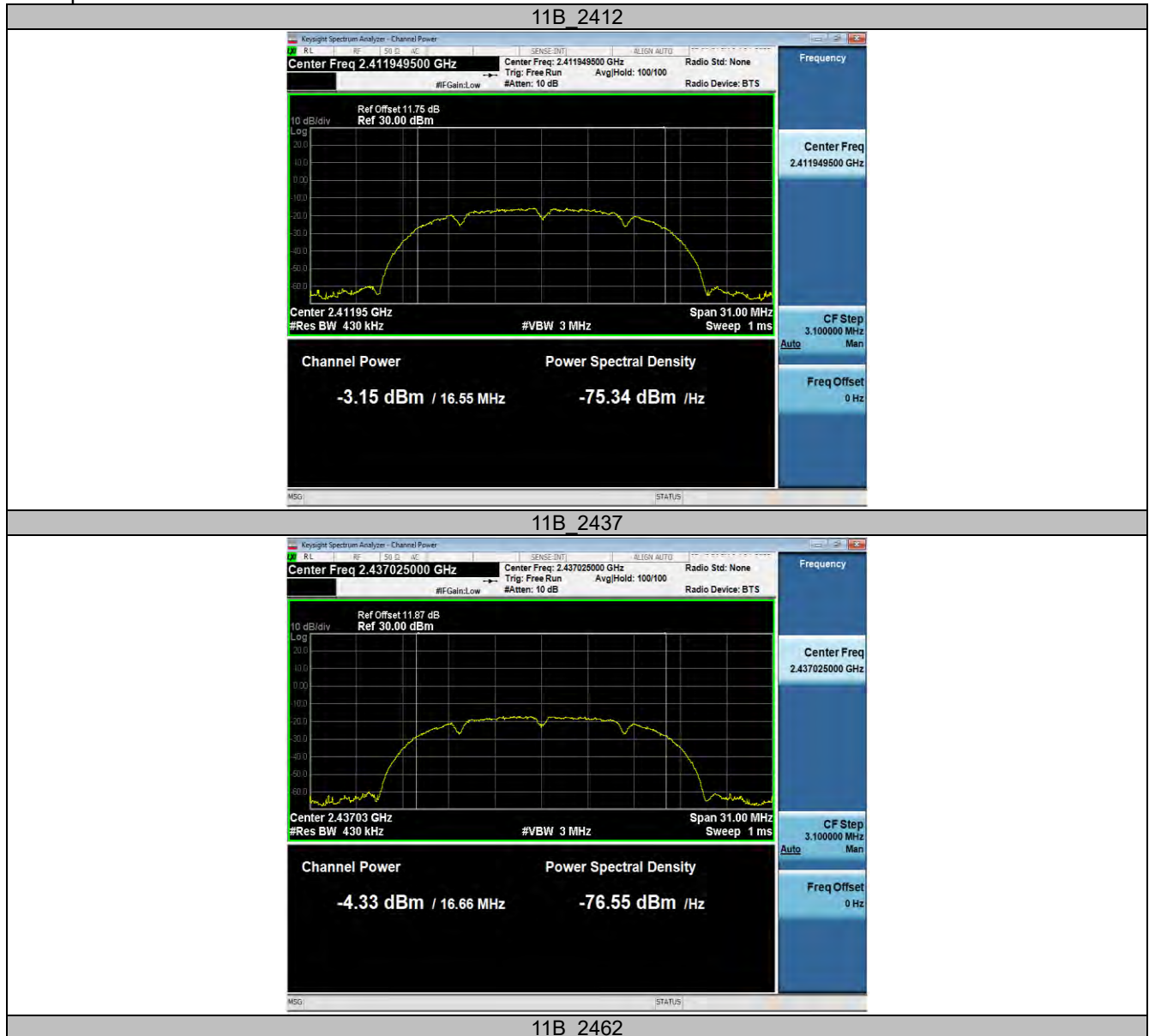
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Test Report

No.: AJT220810029EA-1

Test plot



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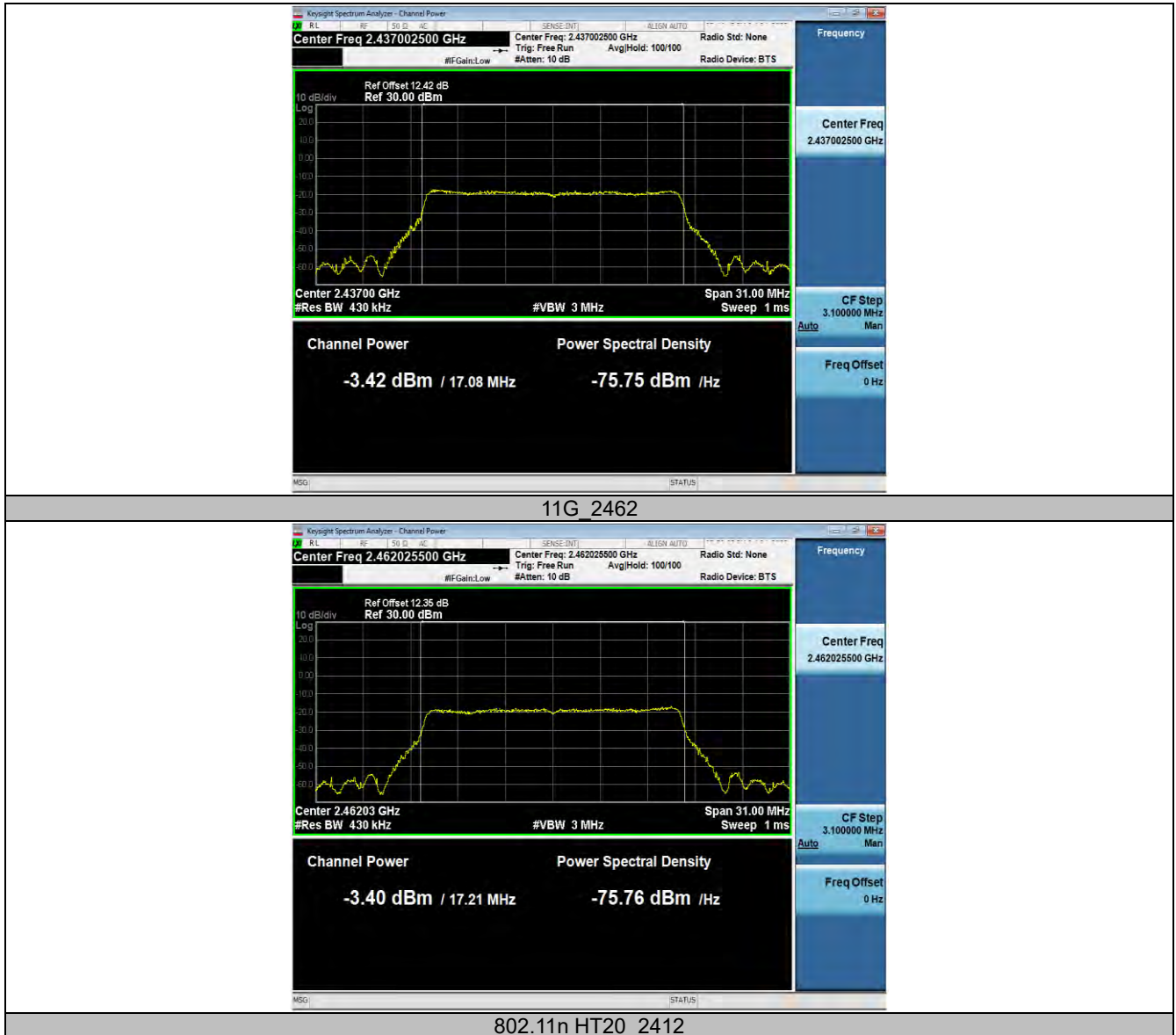
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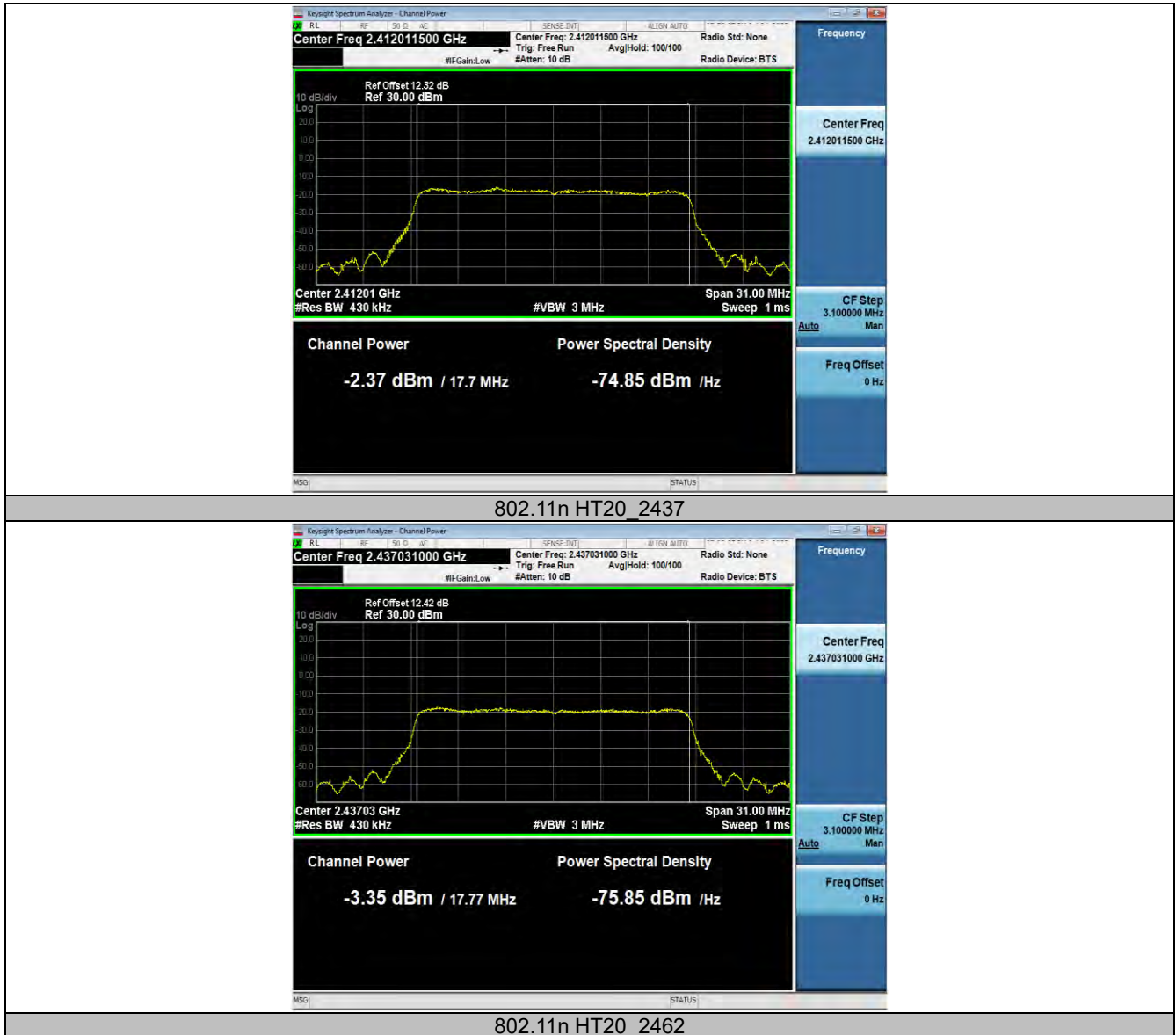
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Test Report

No.: AJT220810029EA-1



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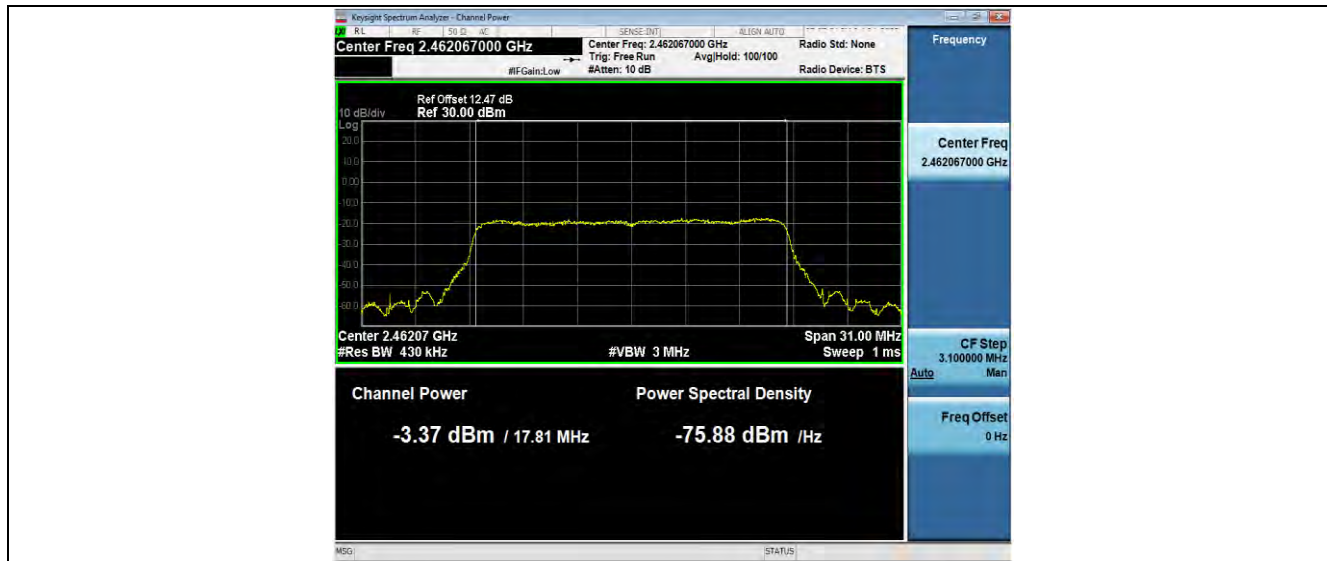
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Test Report

No.: AJT220810029EA-1

13 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

13.1 Test Procedure:

KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019 section 10.2

1.Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2.Set the spectrum analyzer: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$. $\text{VBW} \geq [3 \times \text{RBW}]$. , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.

3.Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

13.2 Test Result:

TestMode	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-26.85	≤ 8	PASS
	2437	-29.83	≤ 8	PASS
	2462	-27.12	≤ 8	PASS
11G	2412	-24.7	≤ 8	PASS
	2437	-25.23	≤ 8	PASS
	2462	-26.12	≤ 8	PASS
802.11n HT20	2412	-25.42	≤ 8	PASS
	2437	-26.44	≤ 8	PASS
	2462	-25.91	≤ 8	PASS

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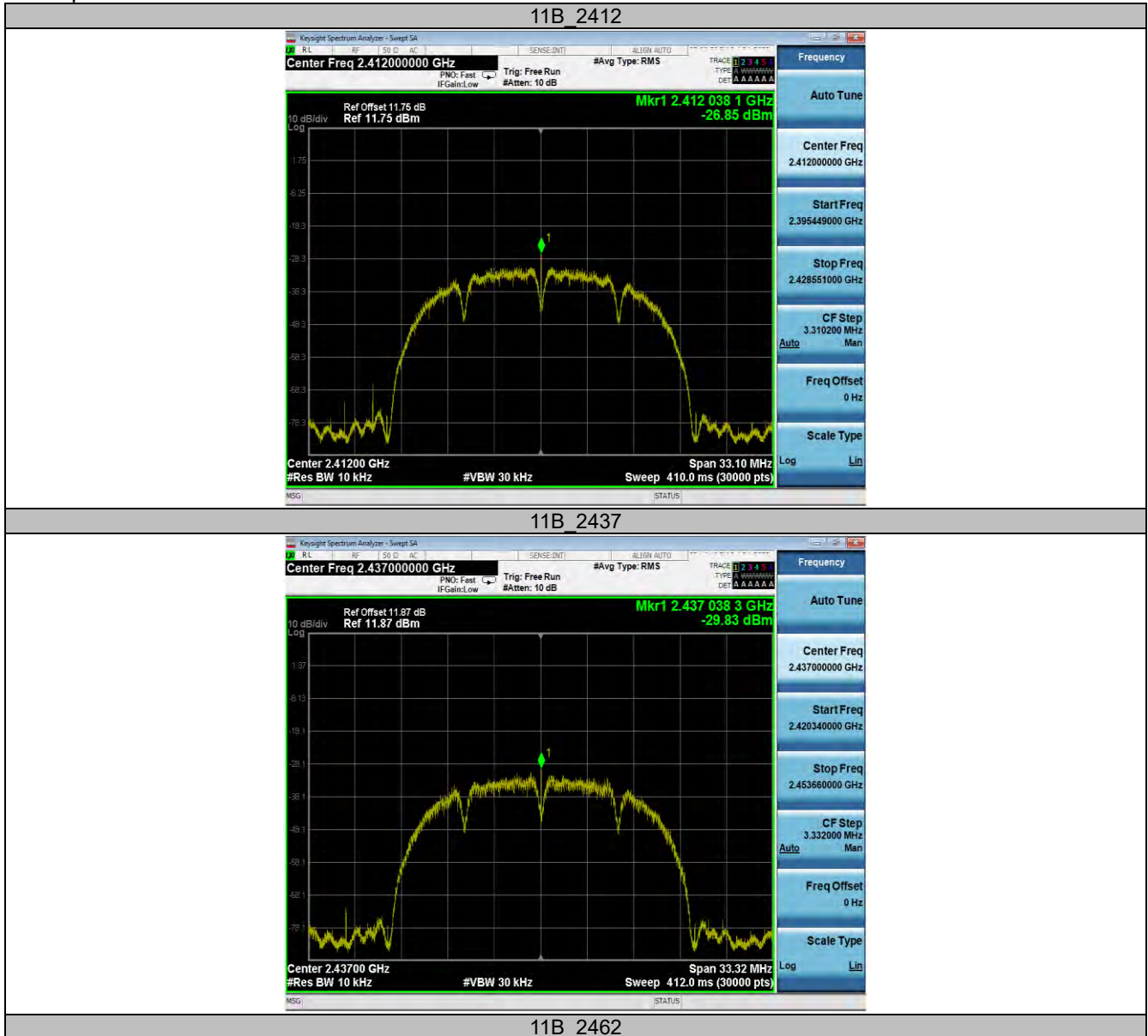
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Test Report

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Test plot



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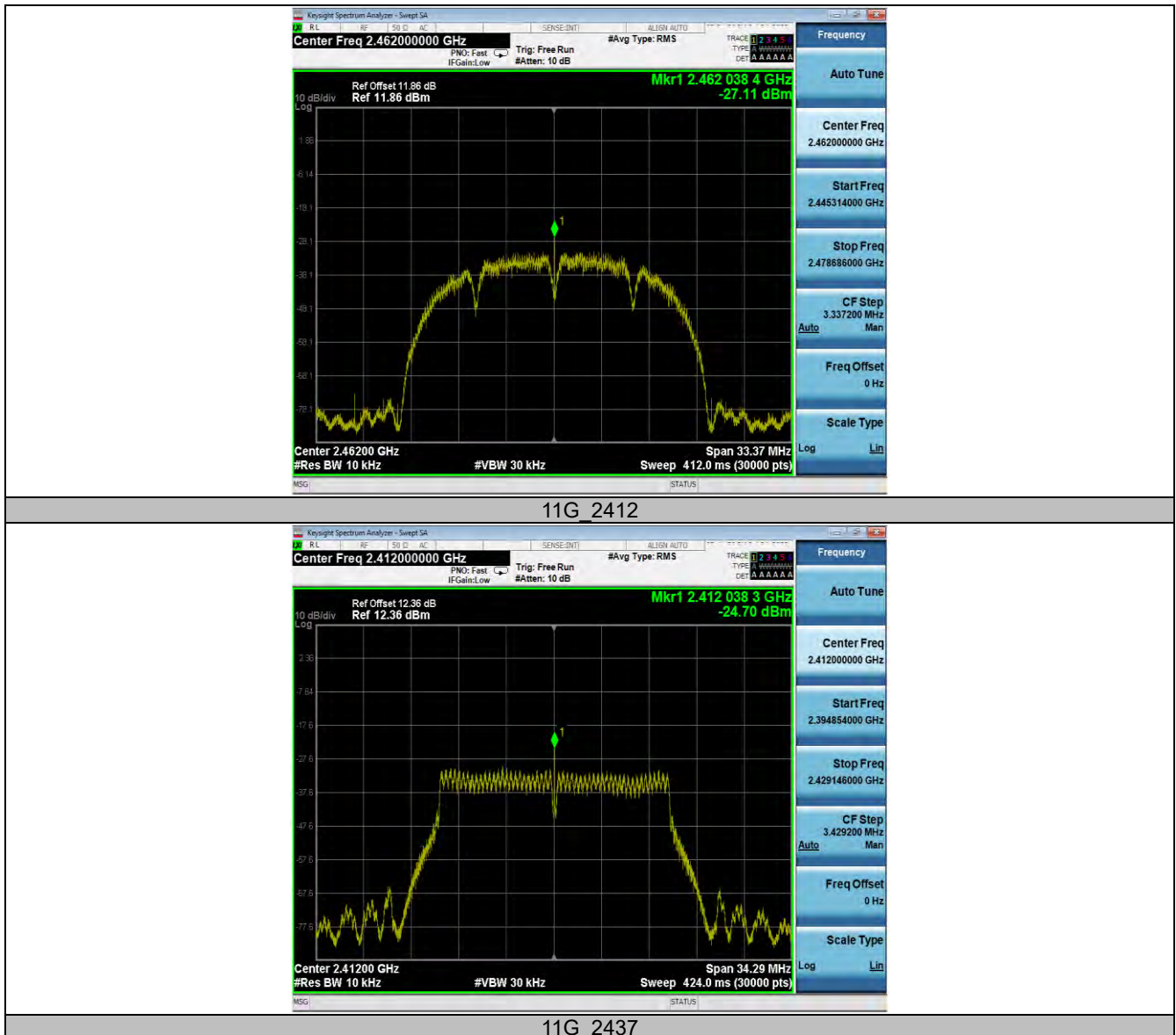
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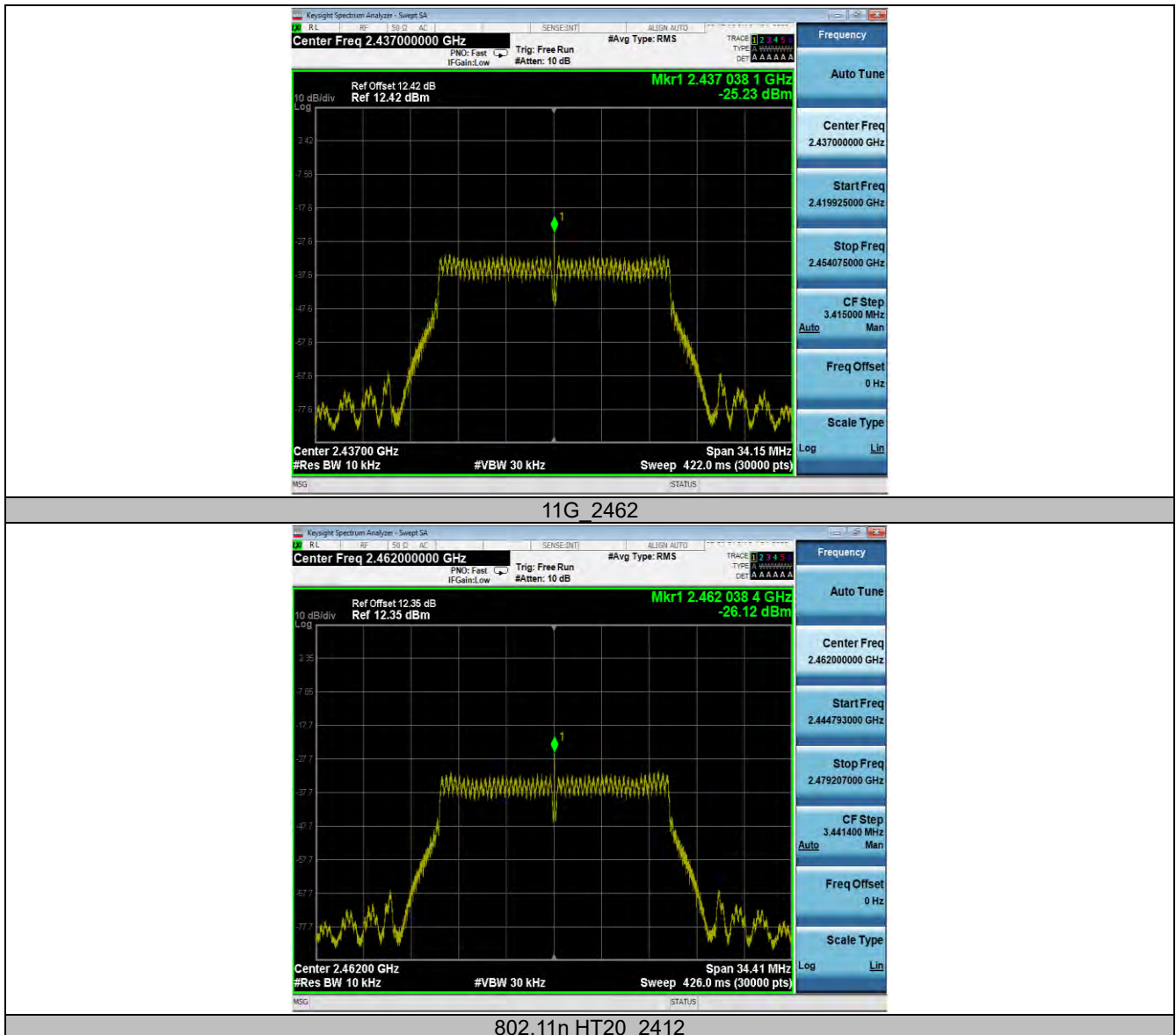
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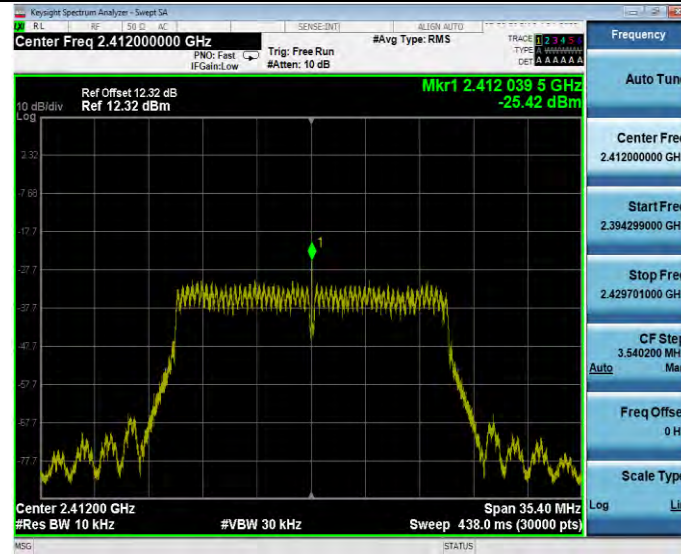
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Test Report

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802.11n HT20_2437



802.11n HT20_2462

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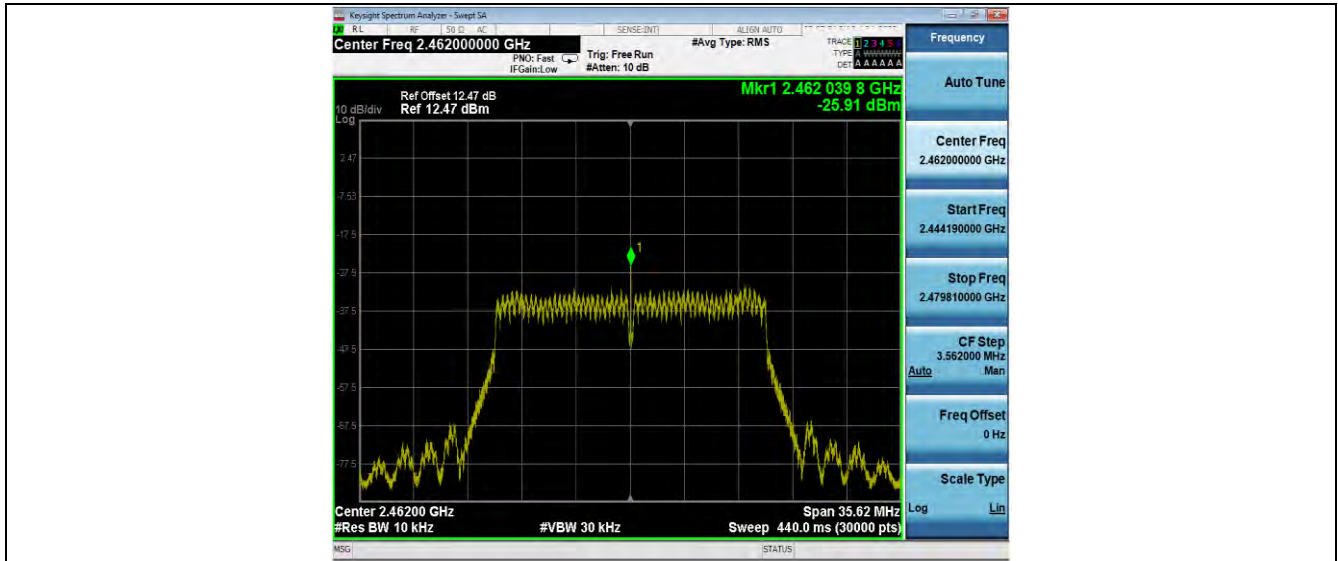
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Test Report

No.: AJT220810029EA-1

14 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has an integrated antenna fulfill the requirement of this section.

15 RF Exposure

Remark: refer to MPE test report: AJT220810029EA-2

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Test Report

No.: AJT220810029EA-1

16 Test Photographs

Referring to – “Test Setup Photos of RC TOYS”.

17 Photos of the EUT

Referring to – “External Photos of RC TOYS” and “Internal Photos of RC TOYS”.

18 Manufacturer/ Approval Holder Declaration

The following identical model(s):

S5, S6, S7, S8, S9, S10, S11, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 1336, 1340, 1339A, 1339W, 1339W-VR, 1332A, 1332W, 1332W-VR, 1343A, 1343W, 2003, 2103, 2106, 1802, 1802-01, 1803, 1818, 1912B, 1306, 1345, 1315W, 1335W, 1327A, 1327W, HM0707, HM0710, HM1204, HM1304, HM0930, HM1816, ODY-1955LIT, DRC442, DRC442-BLK, DRC448, DRC448-BLK, DRC448-NOC-STK-2, 2016, 2106

Belong to the tested device:

Product Description: RC TOYS
Model No.: S12

END OF TEST REPORT

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