

RF Test Report

For

Globe Electric Company Inc.

Test Standards:	Part 15C Subpart C §15.247 <u>RSS 247 Issue 2</u>
Product Name:	<u>WiFi Smart Bulb</u>
Tested Model:	<u>37783</u>
Brand Name:	<u>Globe</u>
FCC ID:	<u>2AQUQGB37783</u>
IC:	<u>8290A-GB37783</u>
Classification	<u>(DTS) Digital Transmission System</u>
Report No.:	<u>EC2002005RF01</u>
Tested Date:	<u>2020-02-15 to 2020-02-24</u>
Issued Date:	<u>2020-02-24</u>
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Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Hunan Ecloud Testing Technology Co., Ltd., the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2020.02.24	Valid	Original Report

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Summary Of Test Result

FCC Rule	IC Rule	Description	Limit	Result	Remark
15.247(a)(2)	RSS-247 5.2(a)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
-	RSS-Gen 6.7	99% Bandwidth	-	Pass	-
15.247(b)(3)	RSS-247 A5.4(d)	Peak Output Power	$\leq 30\text{dBm}$	Pass	-
15.247(e)	RSS-247 5.2(b)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
15.247(d)	RSS-247 5.5	Conducted Band Edges and Spurious Emission	$\leq 20\text{dBc}$	Pass	-
15.247(d)	RSS-247 5.5	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.47 dB at 4874 MHz
15.207	RSS-GEN 8.8	AC Conducted Emission	15.207(a)	Pass	Under limit 22.70 dB at 0.155 MHz
15.203 & 15.247(b)	RSS-GEN 6.8	Antenna Requirement	N/A	Pass	-

1 Test Laboratory

1.1 Test facility

CNAS (accreditation number: L11138)

Hunan Ecloud Testing Technology Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (Designation number: CN1244 , Test Firm Registration Number: 793308)

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

ISED(CAB identifier: CN0012, ISED# :24347)

Hunan Ecloud Testing Technology Co., Ltd. has been listed on the Wireless Device Testing Laboratories list of innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements.

A2LA (Certificate Code : 4895.01)

Hunan Ecloud Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

2 General Description

2.1 Applicant

Globe Electric Company Inc.
150 Oneida, Montreal, Quebec, Canada, H9R 1A8

2.2 Manufacturer

Globe Electric Company Inc.
150 Oneida, Montreal, Quebec, Canada, H9R 1A8

2.3 General Description Of EUT

Product	WiFi Smart Bulb
Model No.	37783
Additional No.	N/A
Difference Description	N/A
FCC ID	2AQUQGB37783
IC	8290A-GB37783
Power Supply	120Vac
Modulation Technology	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Type	802.11b : DSSS 802.11g/n : OFDM
Operating Frequency	2412-2462MHz
Number Of Channel	11
Max. Peak Output Power	802.11b : 11.57 dBm (0.01435 W) 802.11g : 12.69 dBm (0.01858 W) 802.11n HT20 : 12.14 dBm (0.01637 W) 802.11n HT40 : 12.88 dBm (0.01941 W)
HW Version	1.0.3
SW Version	1.1.6
Antenna Type	PCB Antenna type with 1.22dBi gain
I/O Ports	Refer to user's manual

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

2.4 Modification of EUT

No modifications are made to the EUT during all test items.

2.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ ANSI C63.10-2013
- ♦ IC RSS-247 Issue 2
- ♦ IC RSS-Gen Issue 5
- ♦ KDB 558074 D01 15.247 Meas Guidance v05r02

Remark:

1. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, ICES-005 recorded in a separate test report.

3 Test Configuration of Equipment Under Test

3.1 Descriptions of Test Mode

11 channels are provided for 802.11b, 802.11g and 802.11n(HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

7 channels are provided for 802.11n(HT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
		7	2442 MHz
		8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz		
5	2432 MHz		
6	2437 MHz		

The transmitter has a maximum peak conducted output power as follows:

Frequency Range(MHz)	Mode	Rate	Output Power(dBm)
2412~2462	802.11b	1Mbps	11.57
2412~2462	802.11g	6Mbps	12.69
2412~2462	802.11n HT20	MCS0	12.14
2422~2452	802.11n HT40	MCS0	12.88

- a. Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

3.2 Test Mode

3.2.1 Antenna Port Conducted Measurement

Summary table of Test Cases				
Test Item	Modulation			
	802.11 b	802.11 g	802.11n HT20	802.11n HT40
Conducted Test Cases	Mode 1: CH01	Mode 1: CH01	Mode 1: CH01	Mode 1: CH03
	Mode 2: CH06	Mode 2: CH06	Mode 2: CH06	Mode 2: CH06
	Mode 3: CH011	Mode 3: CH011	Mode 3: CH011	Mode 3: CH09

3.2.2 Radiated Emission Test (Below 1GHz)

Radiated Test Cases	Modulation
	802.11b CH06

Note : 1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type. Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

2. Following channel(s) was (were) selected for the final test as listed above

3.2.3 Radiated Emission Test (Above 1GHz)

Test Item	Modulation			
	802.11 b	802.11 g	802.11n HT20	802.11n HT40
Radiated Test Cases	Mode 1: CH01	Mode 1: CH01	Mode 1: CH01	Mode 1: CH03
	Mode 2: CH06	Mode 2: CH06	Mode 2: CH06	Mode 2: CH06
	Mode 3: CH11	Mode 3: CH11	Mode 3: CH11	Mode 3: CH09

Note : 1. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z it was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

2. Following channel(s) was (were) selected for the final test as listed above

3. For frequency above 18GHz, the measured value is much lower than the limit, therefore, it is not reflected in the report.

3.2.4 Power Line Conducted Emission Test:

AC Conducted Emission	Mode 1 : WLAN Link + AC Power Supply
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3.3 Support Equipment

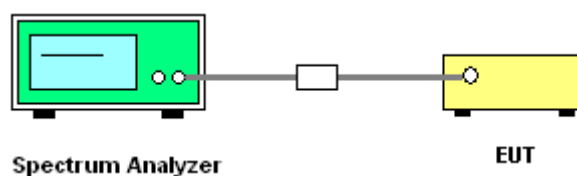
Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	E540	FCC DoC	N/A	shielded cable DC O/P 1.8 m unshielded AC I/P cable1.2 m

3.4 Test Setup

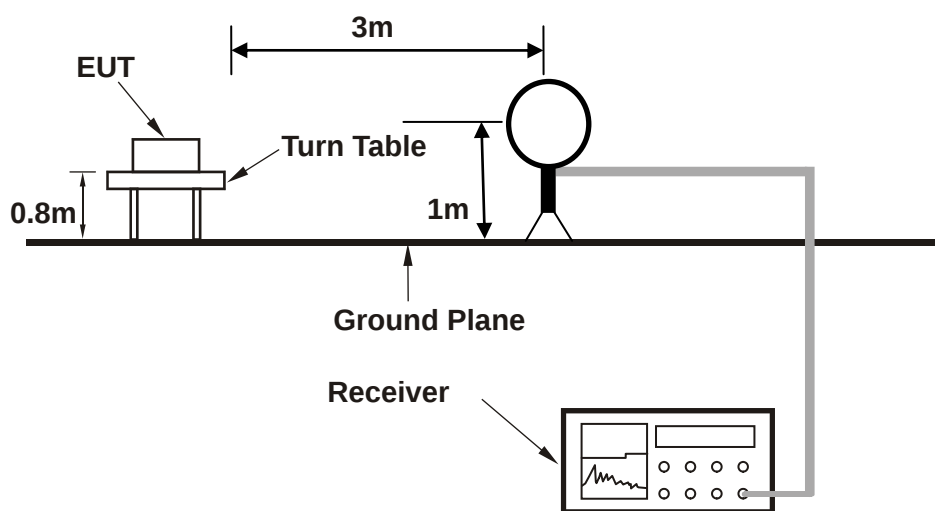
The EUT is continuously communicating to the Bluetooth tester during the tests.

EUT was set in the Hidden menu mode to enable BT communications.

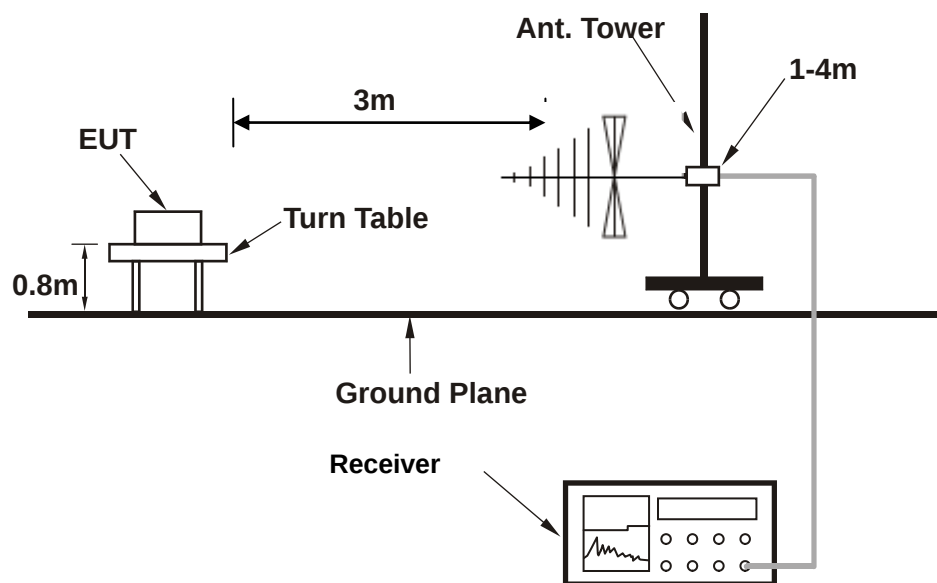
Setup diagram for Conducted Test



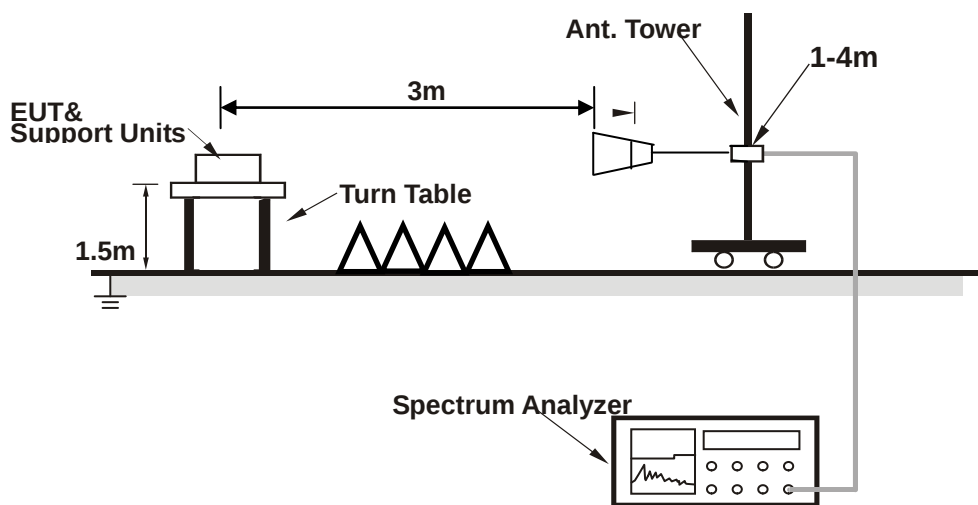
Setup diagram for Radiation(9KHz~30MHz) Test



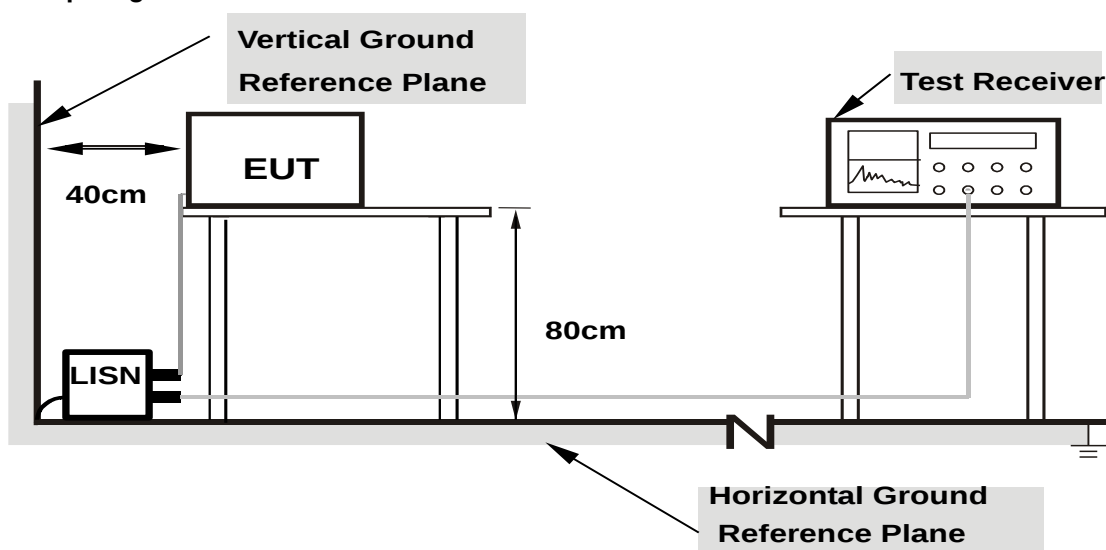
Setup diagram for Radiation(Below 1G) Test



Setup diagram for Radiation(Above1G) Test



Setup diagram for AC Conducted Emission Test



- Note:**
- 1.Support units were connected to second LISN.
 - 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 5 + 10 = 15 \text{ (dB)} \end{aligned}$$

4 Test Result

4.1 6dB and 99% Bandwidth Measurement

4.1.1 Limit of 6dB and 99% Bandwidth

FCC §15.247 (a) (2)

IC RSS-247 5.2(a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

4.1.2 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v05r02.
2. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
3. Turn on the EUT and connect it to measurement instrument.
4. Set to the maximum power setting and enable Transmitting the EUT transmit continuously
5. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz.
Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
6. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 510KHz and set the Video bandwidth (VBW) = 2MHz.

4.1.3 Test Result of 6dB and 99% Bandwidth

6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.600	2407.440	2417.040	0.5	PASS
		2437	9.120	2432.400	2441.520	0.5	PASS
		2462	9.120	2457.440	2466.560	0.5	PASS
11G	Ant1	2412	9.680	2406.920	2416.600	0.5	PASS
		2437	9.240	2432.840	2442.080	0.5	PASS
		2462	9.080	2457.560	2466.640	0.5	PASS
11N20SISO	Ant1	2412	10.120	2406.920	2417.040	0.5	PASS
		2437	10.080	2430.720	2440.800	0.5	PASS
		2462	12.600	2454.440	2467.040	0.5	PASS
11N40SISO	Ant1	2422	30.160	2405.680	2435.840	0.5	PASS
		2437	28.960	2420.680	2449.640	0.5	PASS
		2452	29.040	2435.600	2464.640	0.5	PASS

6dB bandwidth Plot

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



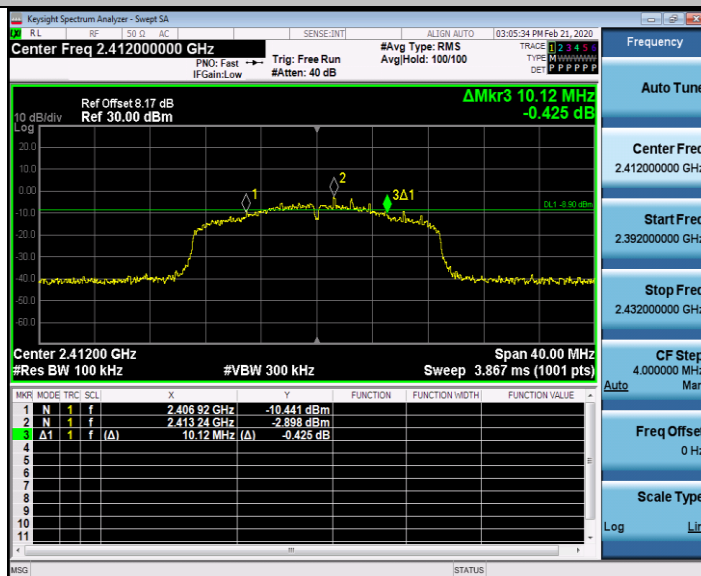
11G_Ant1_2437



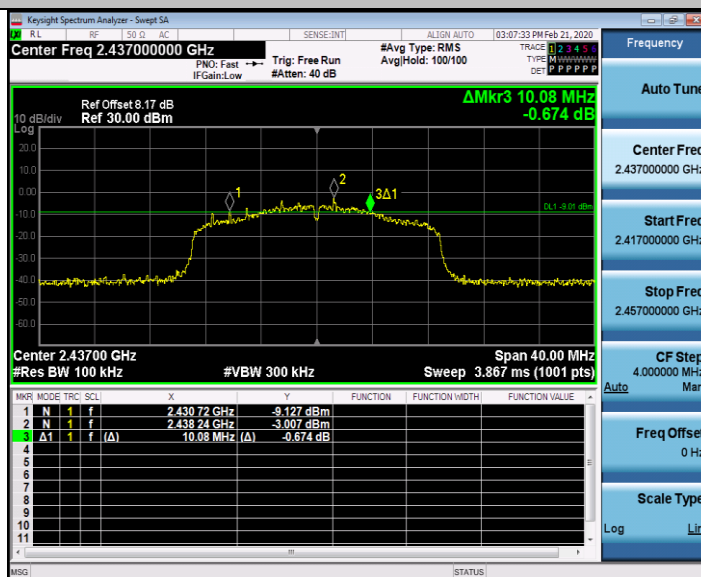
11G_Ant1_2462



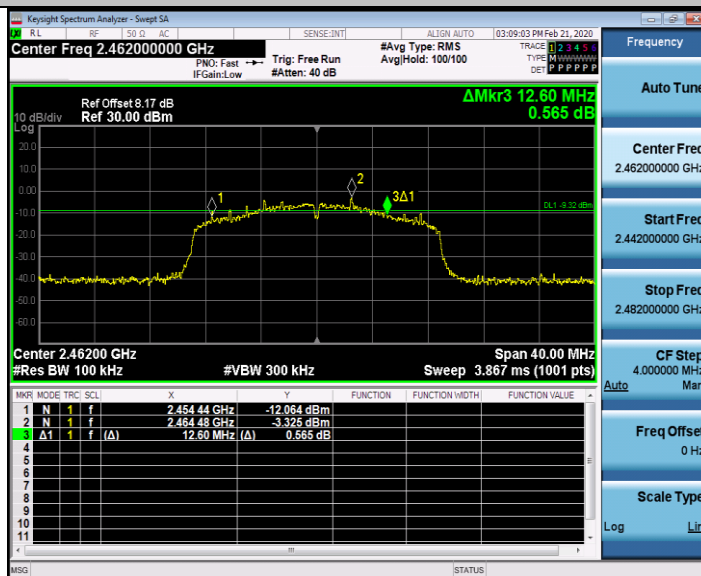
11N20SISO_Ant1_2412



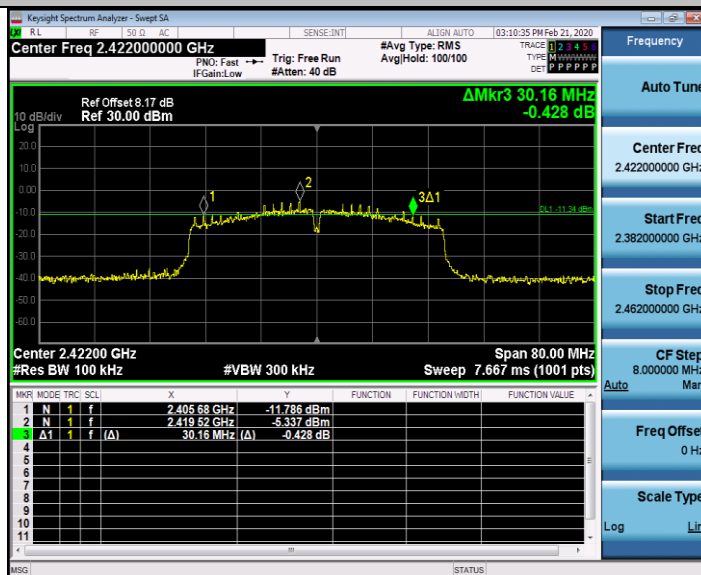
11N20SISO_Ant1_2437



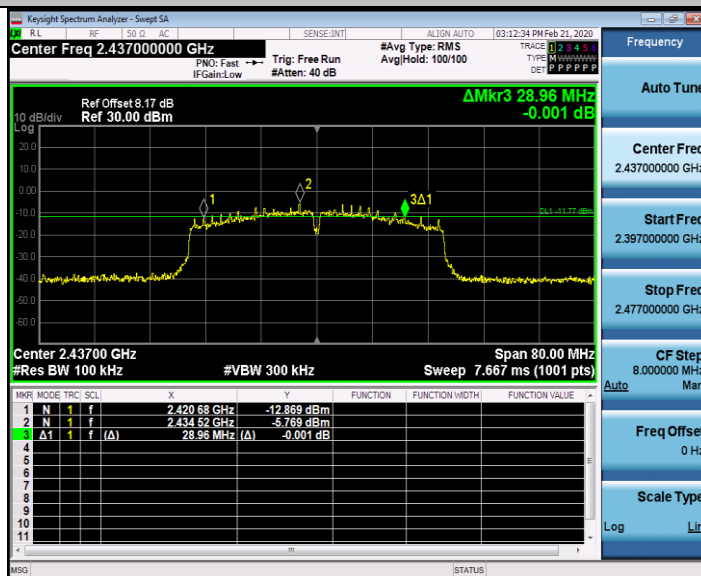
11N20SISO_Ant1_2462



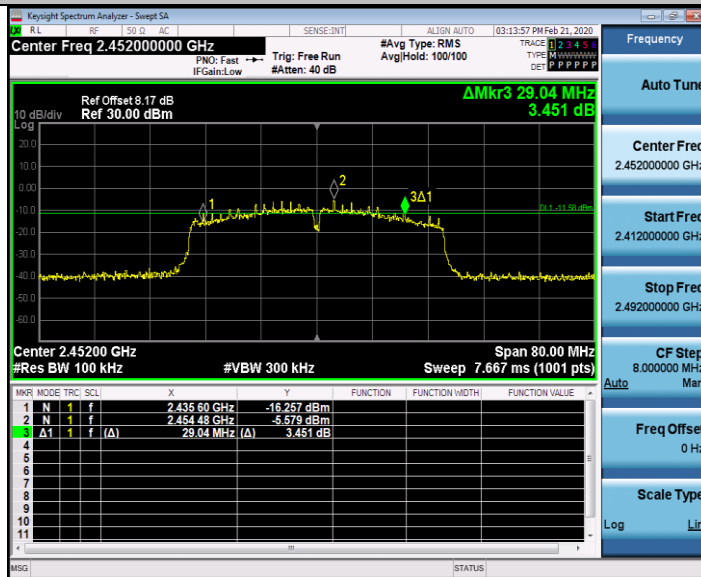
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

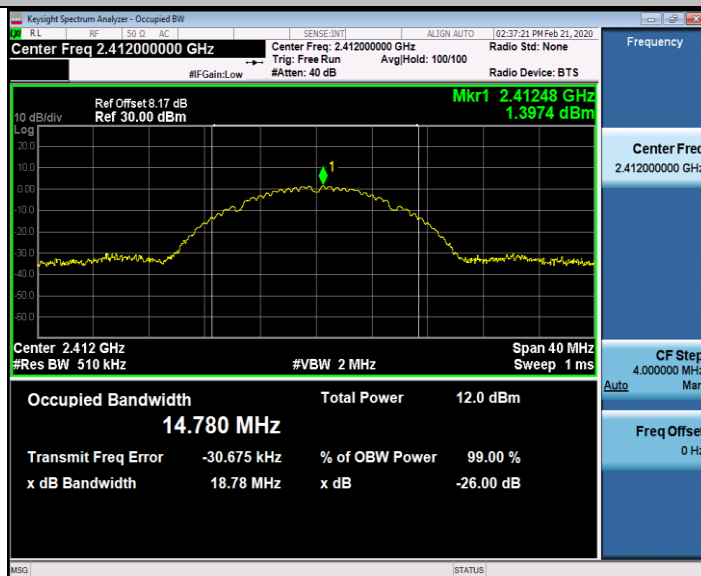


99% Bandwidth

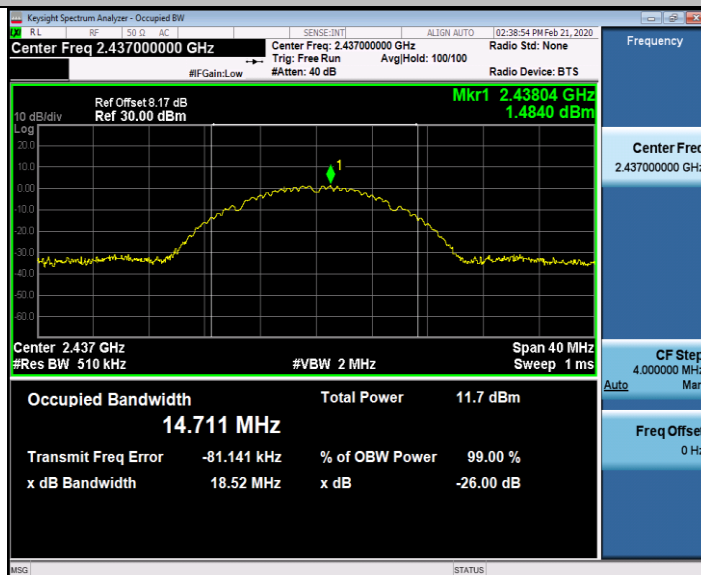
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.780	2404.579	2419.359	---	PASS
		2437	14.711	2429.563	2444.274	---	PASS
		2462	14.647	2454.587	2469.234	---	PASS
11G	Ant1	2412	16.006	2404.008	2420.014	---	PASS
		2437	16.044	2428.965	2445.009	---	PASS
		2462	15.986	2453.982	2469.968	---	PASS
11N20SISO	Ant1	2412	16.841	2403.570	2420.411	---	PASS
		2437	16.846	2428.552	2445.398	---	PASS
		2462	16.858	2453.524	2470.382	---	PASS
11N40SISO	Ant1	2422	35.474	2404.198	2439.672	---	PASS
		2437	35.554	2419.152	2454.706	---	PASS
		2452	35.584	2434.122	2469.706	---	PASS

99% Bandwidth Plot

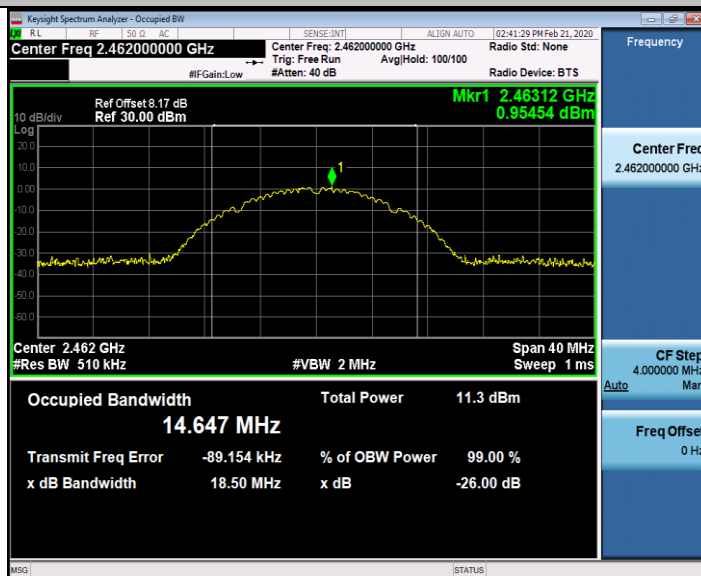
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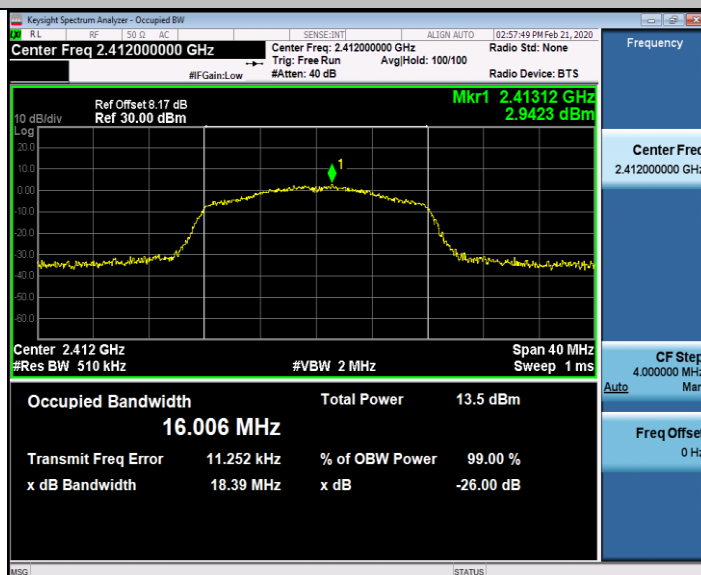
11B_Ant1_2437



11B_Ant1_2462



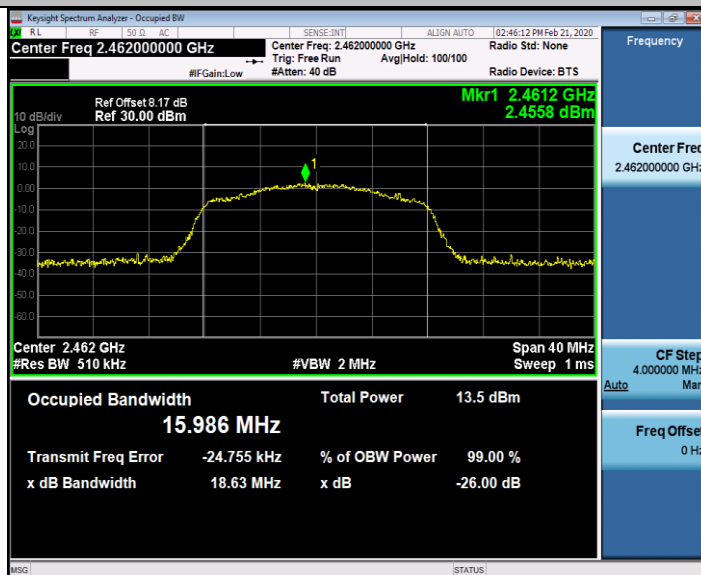
11G_Ant1_2412



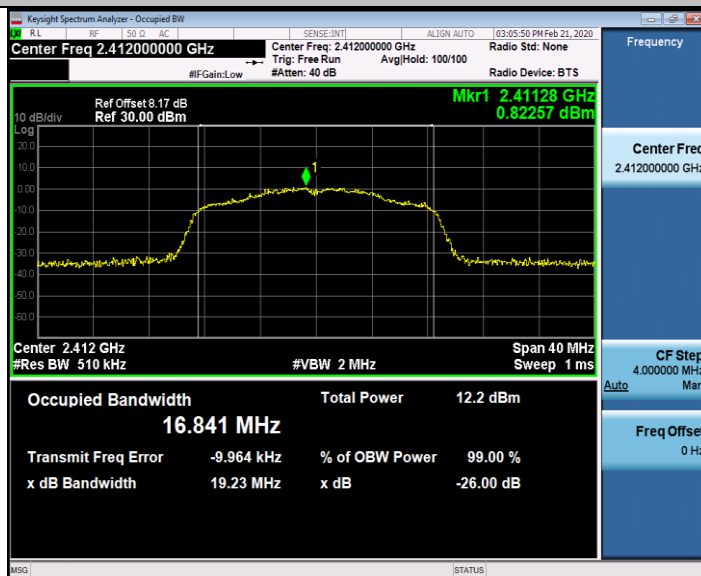
11G_Ant1_2437



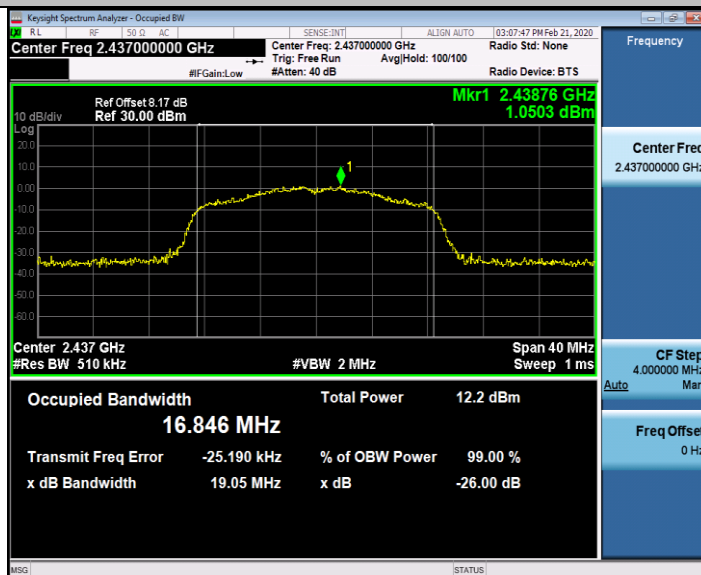
11G_Ant1_2462



11N20SISO_Ant1_2412



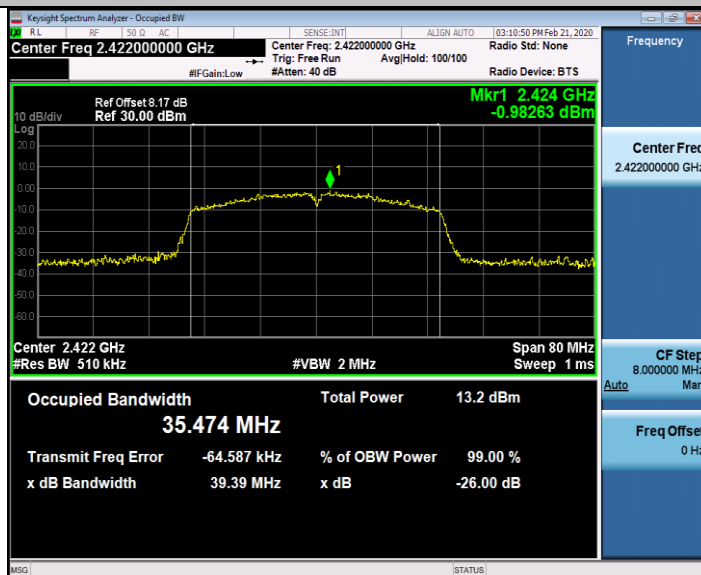
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



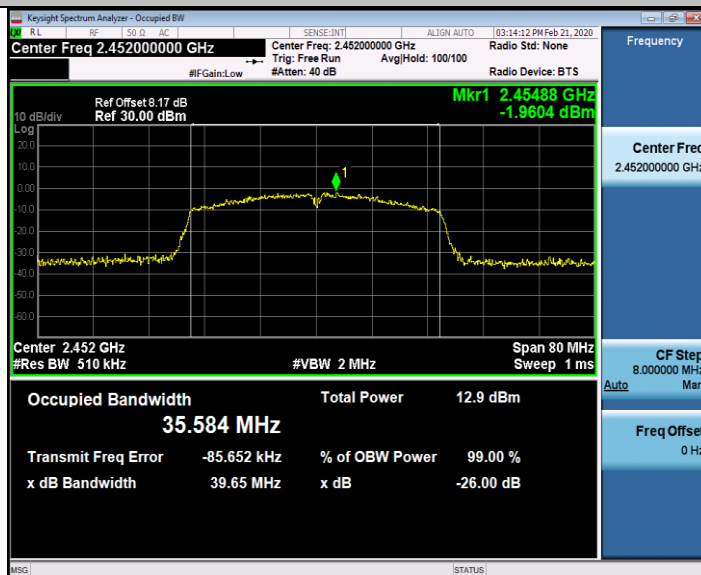
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



4.2 Output Power Measurement & E.I.R.P. Measurement

4.2.1 Limit of Output Power

FCC §15.247 (b)(3)

IC RSS-247 A5.4(d)

For systems using digital modulation in the 2400-2483.5 MHz bands: 30dBm.

The e.i.r.p. shall not exceed 4 W.

4.2.2 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 section 11.10.6 Measurement using a spectrum analyzer.
2. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
3. Turn on the EUT and connect it to spectrum analyzer.
4. Set to the maximum power setting and enable Transmitting the EUT transmit continuously
5. Measure the duty cycle, x , of the transmitter output signal as described in below:
 - a. Set the center frequency of the instrument to the center frequency of the transmission.
 - b. Set RBW to the largest available Transmitting value.
 - c. Set detector = peak
6. Set span to at least $1.5 \times \text{OBW}$. Set RBW=510KHz, VBW=2MHz, Number of points in sweep $\geq 2/3 \times$ span, Sweep time = auto. Detector = RMS
7. Allow the sweep to "free run". Trace average 100 traces in RMS mode
8. Compute power by integrating the spectrum across the OBW of the signal using the instrument's Channel power measurement function with band limits set equal to the OBW band edges.
9. Add $10 \log (1/x)$, where x is the duty cycle. The duty cycle factor has been compensated to the "offset" of the spectrum analyser.
10. Use a power sensor to measure peak output power.

4.2.3 Test Result of Peak Output Power & E.I.R.P

Test Mode :	Tx Mode		Temperature :	24~26℃	
Test Engineer :	Jack Liu		Relative Humidity :	50~53%	
TestMode	Antenna	Channel	Peak Output power Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	11.57	<=30	PASS
		2437	11.20	<=30	PASS
		2462	10.80	<=30	PASS
11G	Ant1	2412	12.61	<=30	PASS
		2437	12.57	<=30	PASS
		2462	12.69	<=30	PASS
11N20SISO	Ant1	2412	11.41	<=30	PASS
		2437	11.33	<=30	PASS
		2462	12.14	<=30	PASS
11N40SISO	Ant1	2422	12.88	<=30	PASS
		2437	12.36	<=30	PASS
		2452	12.51	<=30	PASS

Test Mode :	Tx Mode		Temperature :	24~26℃	
Test Engineer :	Jack Liu		Relative Humidity :	50~53%	
TestMode	Antenna	Channel	E.I.R.P. Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	12.79	<=36	PASS
		2437	12.42	<=36	PASS
		2462	12.02	<=36	PASS
11G	Ant1	2412	13.83	<=36	PASS
		2437	13.79	<=36	PASS
		2462	13.91	<=36	PASS
11N20SISO	Ant1	2412	12.63	<=36	PASS
		2437	12.55	<=36	PASS
		2462	13.36	<=36	PASS
11N40SISO	Ant1	2422	14.1	<=36	PASS
		2437	13.58	<=36	PASS
		2452	13.73	<=36	PASS

4.2.4 Test Result of Average Output Power

Test Mode :	Tx Mode		Temperature :	24~26℃	
Test Engineer :	Jack Liu		Relative Humidity :	50~53%	
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	9.25	<=30	PASS
		2437	8.99	<=30	PASS
		2462	8.61	<=30	PASS
11G	Ant1	2412	7.34	<=30	PASS
		2437	7.32	<=30	PASS
		2462	7.36	<=30	PASS
11N20SISO	Ant1	2412	6.14	<=30	PASS
		2437	6.16	<=30	PASS
		2462	6.47	<=30	PASS
11N40SISO	Ant1	2422	6.90	<=30	PASS
		2437	6.64	<=30	PASS
		2452	6.71	<=30	PASS

Meas.Level Plot

11B_Ant1_2412



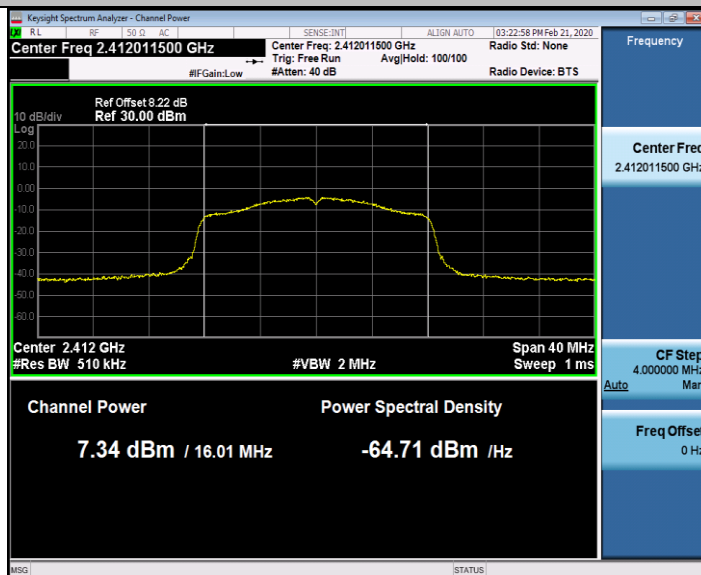
11B_Ant1_2437



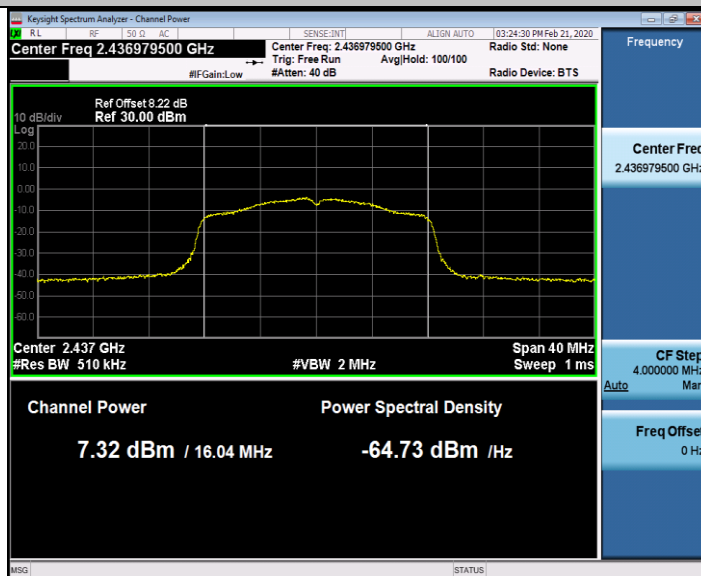
11B_Ant1_2462



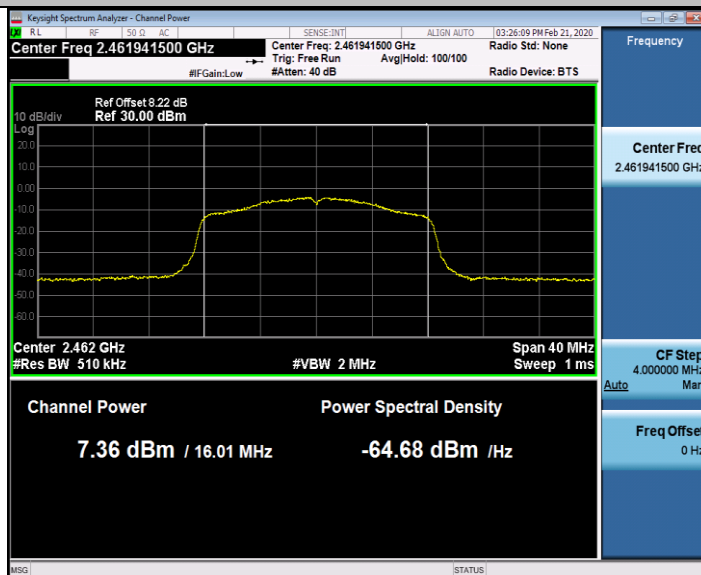
11G_Ant1_2412



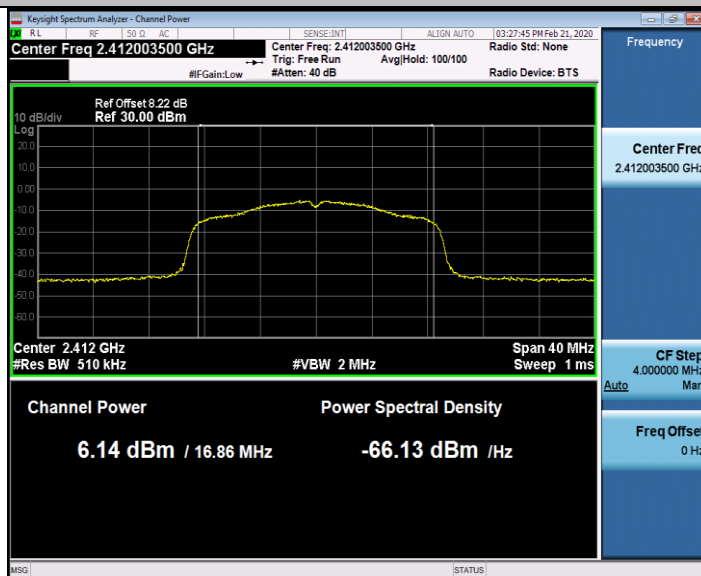
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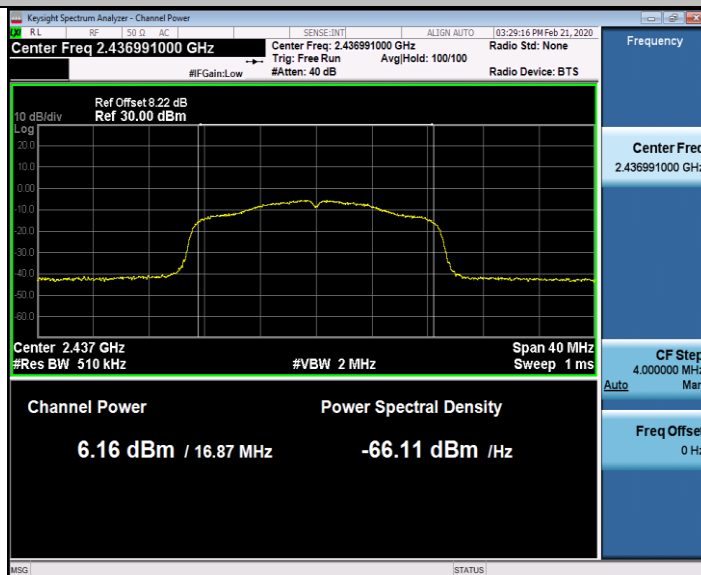
11G_Ant1_2462



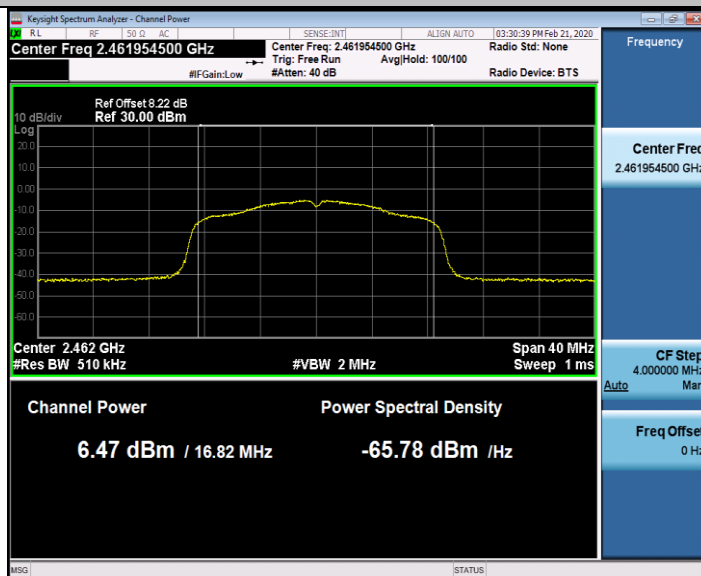
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



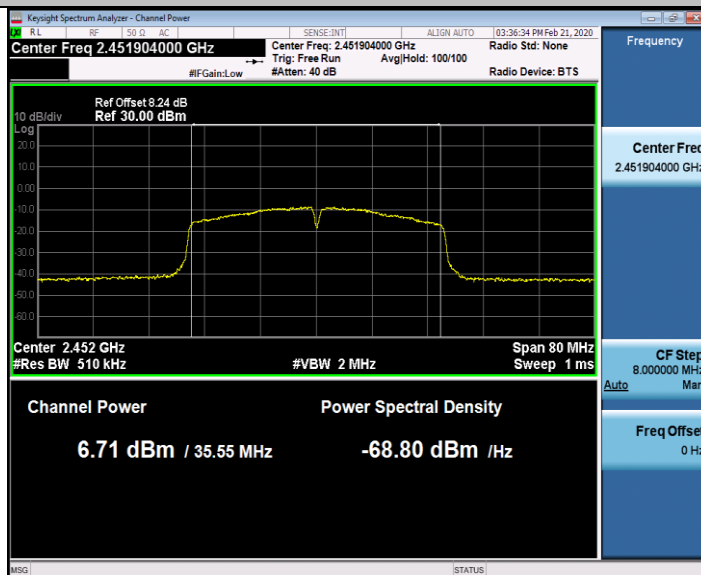
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



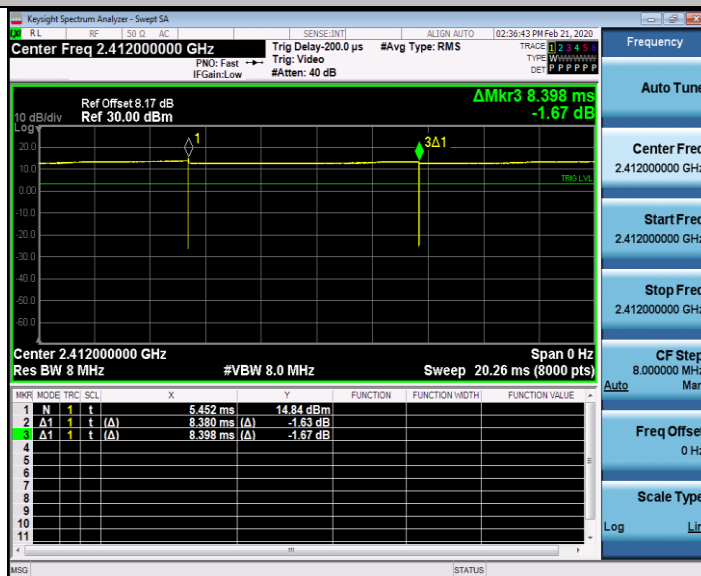
11N40SISO_Ant1_2452



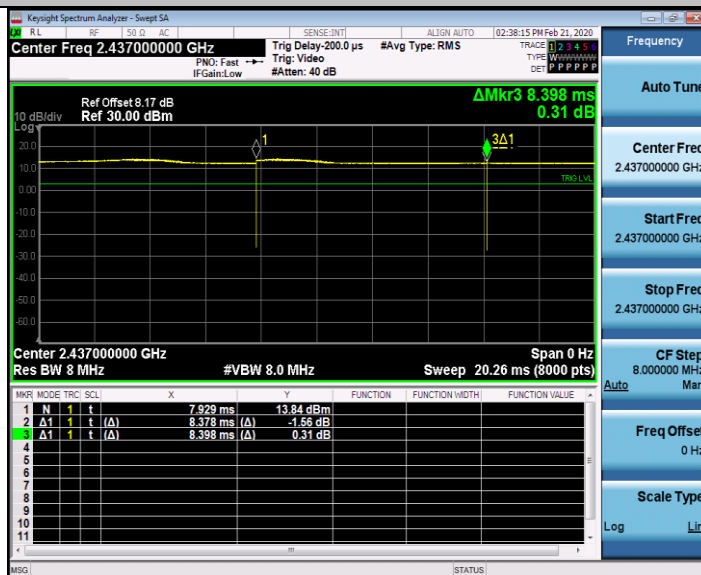
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.38	8.40	99.79
		2437	8.38	8.40	99.76
		2462	8.38	8.40	99.79
11G	Ant1	2412	1.39	1.41	98.83
		2437	1.39	1.41	98.83
		2462	1.39	1.40	98.92
11N20SISO	Ant1	2412	1.30	1.31	98.75
		2437	1.30	1.31	98.75
		2462	1.30	1.31	98.75
11N40SISO	Ant1	2422	0.65	0.66	98.46
		2437	0.65	0.66	98.46
		2452	0.64	0.66	98.26

Duty cycle Plot

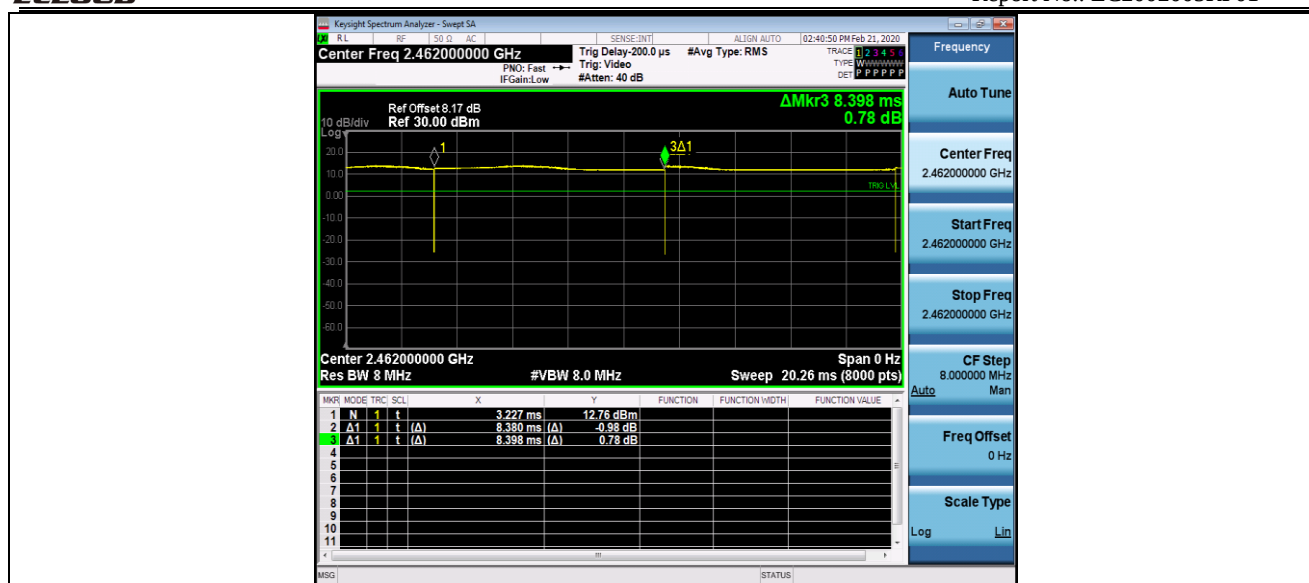
11B_Ant1_2412



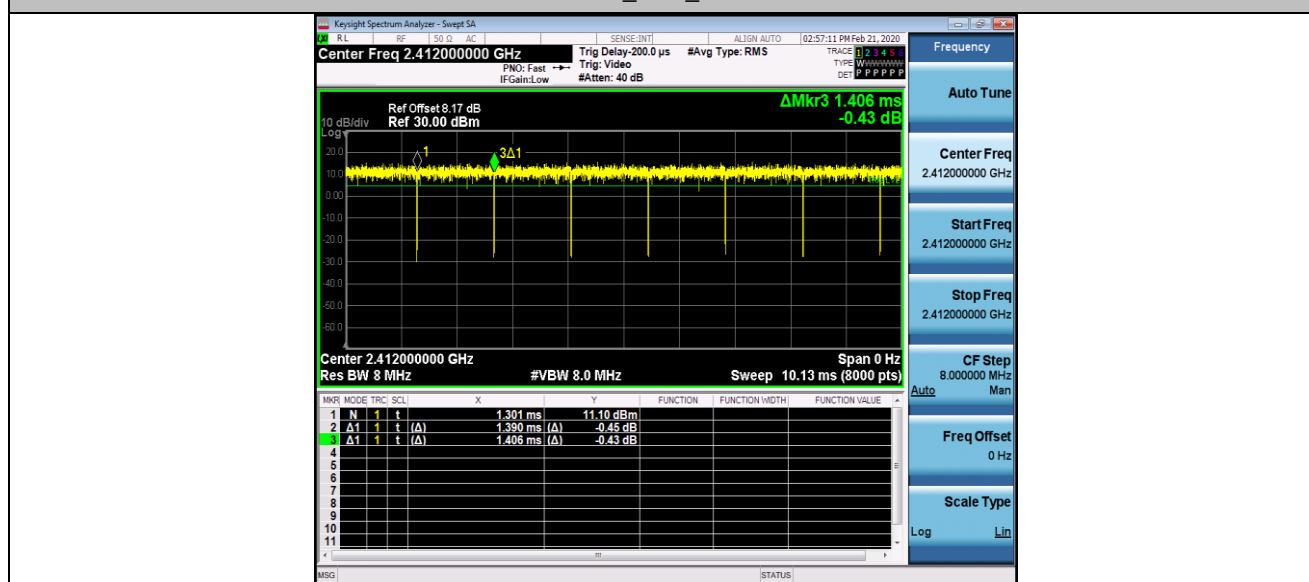
11B_Ant1_2437



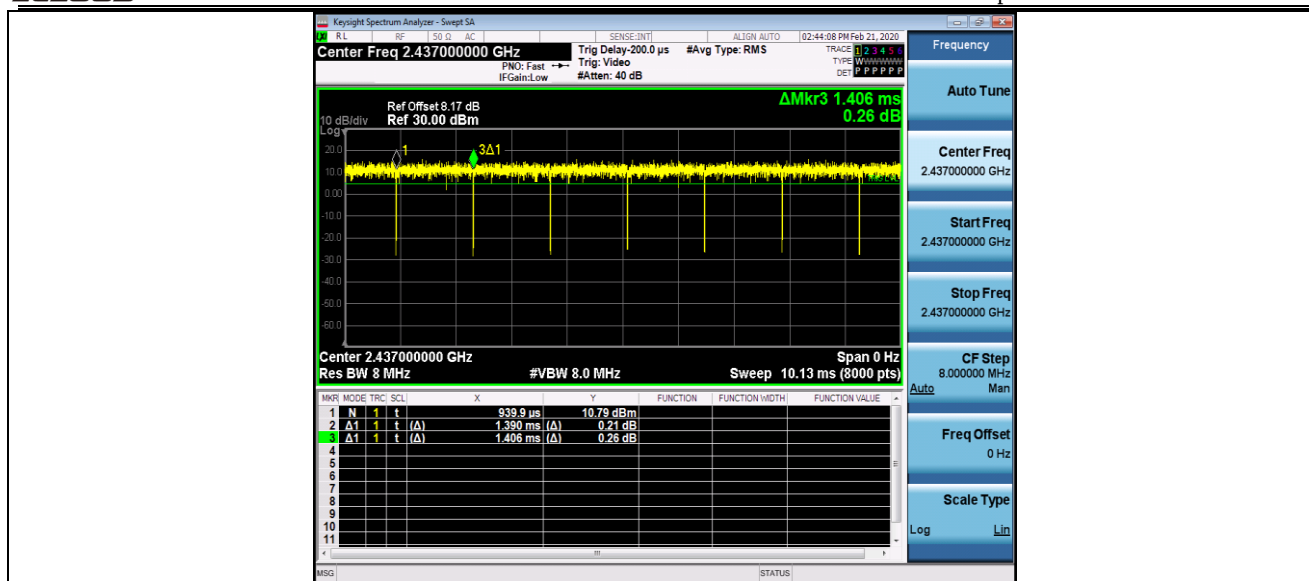
11B_Ant1_2462



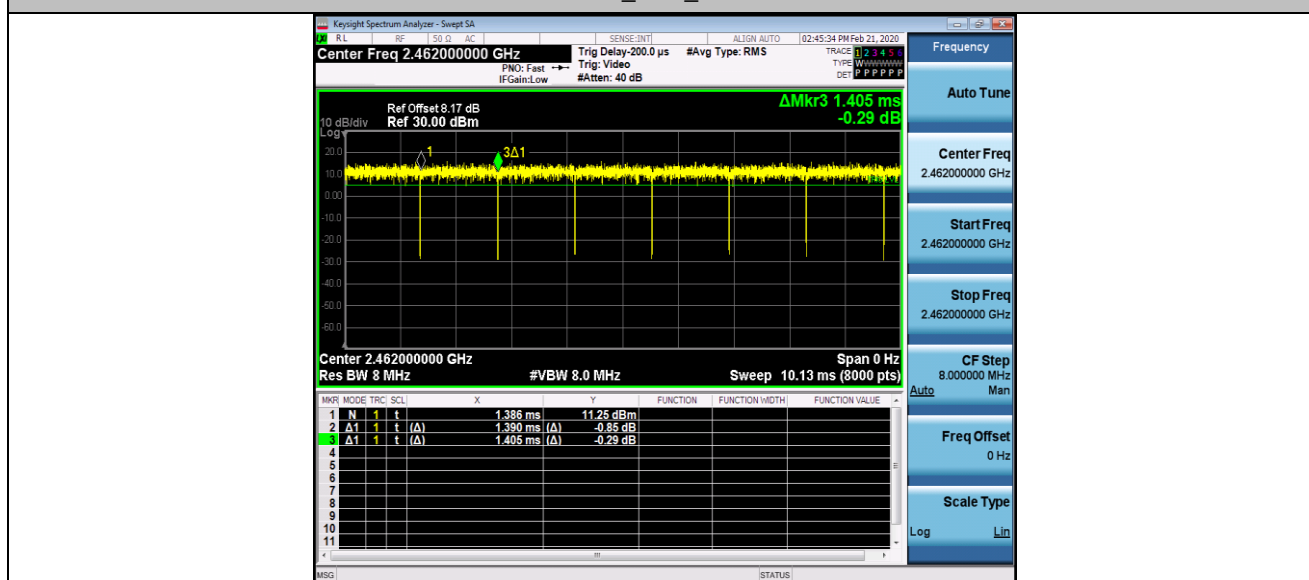
11G_Ant1_2412



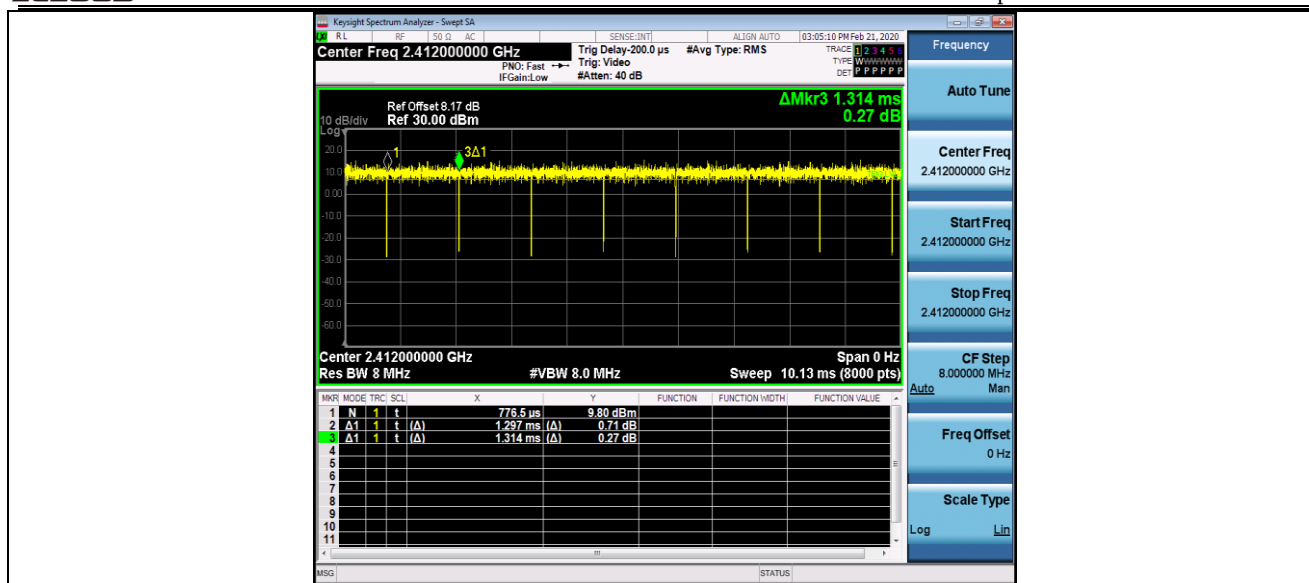
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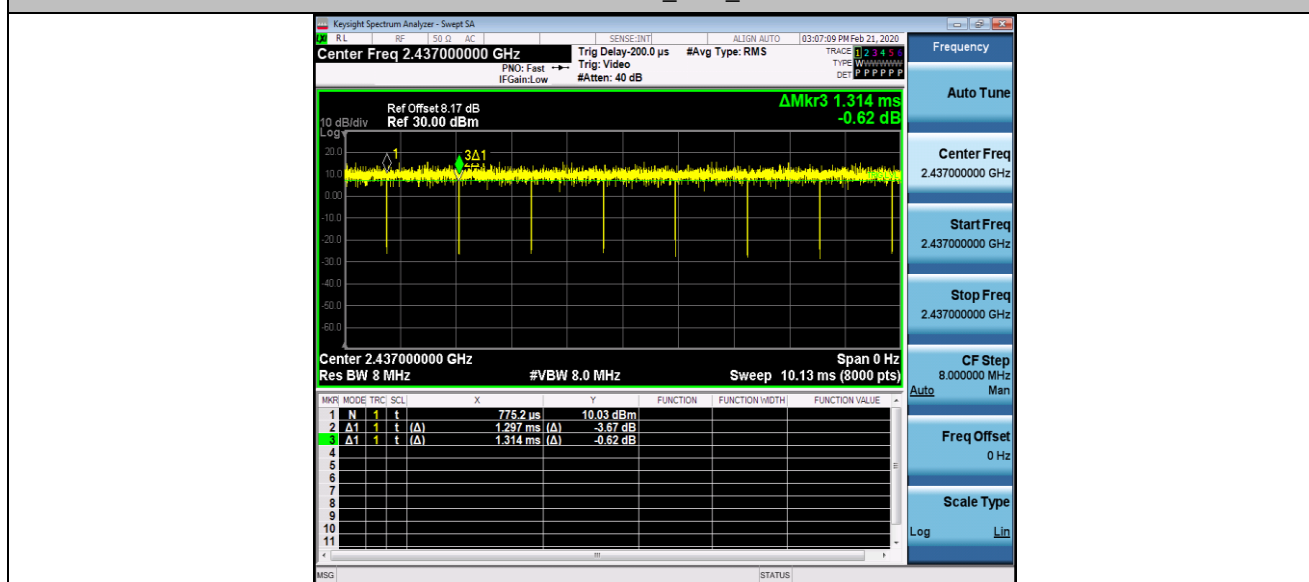
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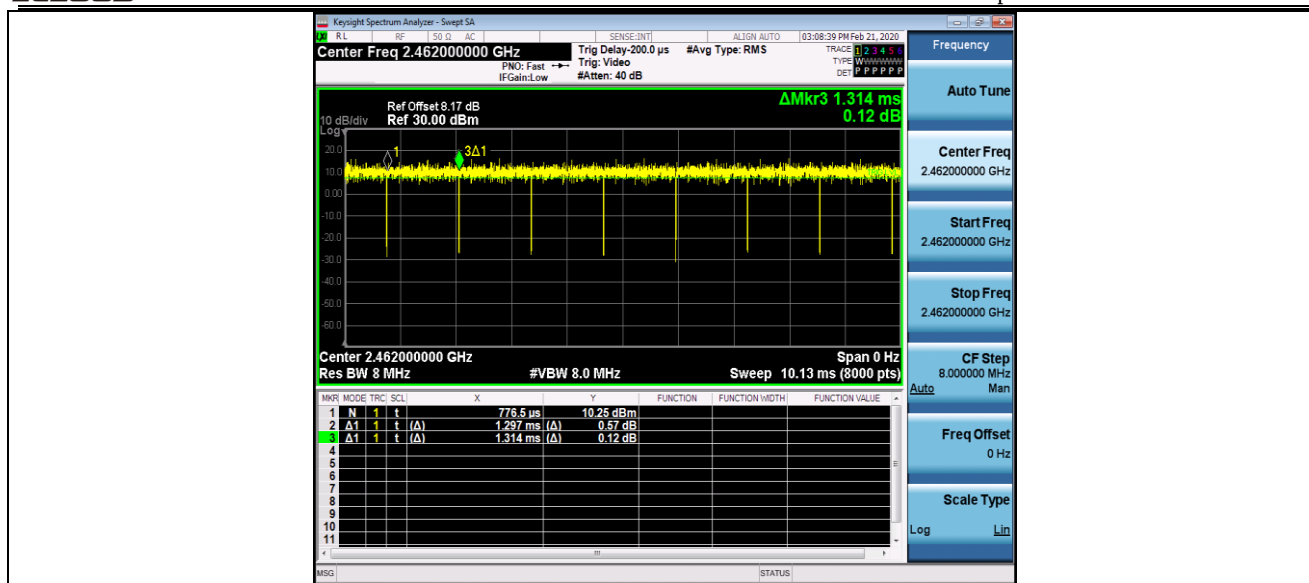
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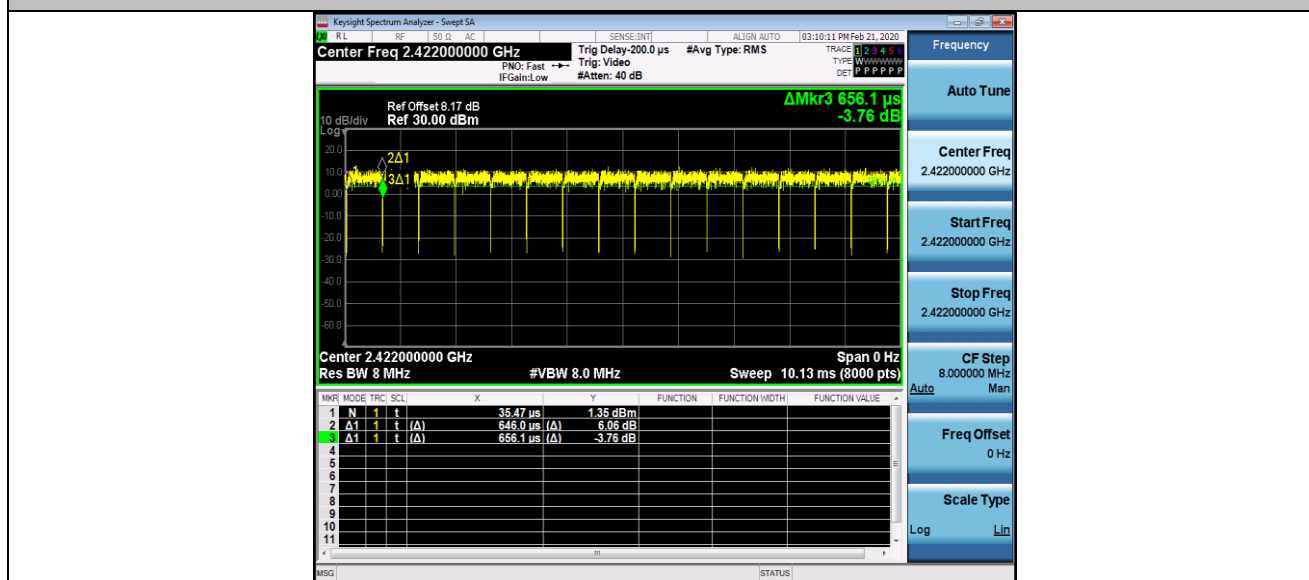
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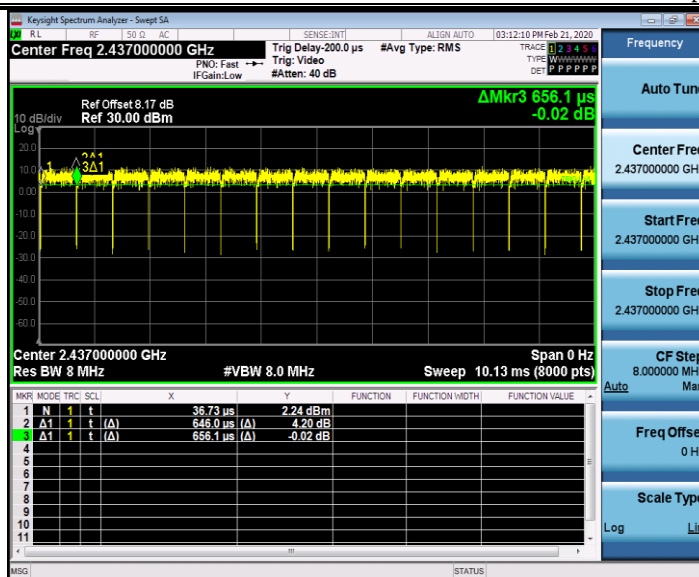
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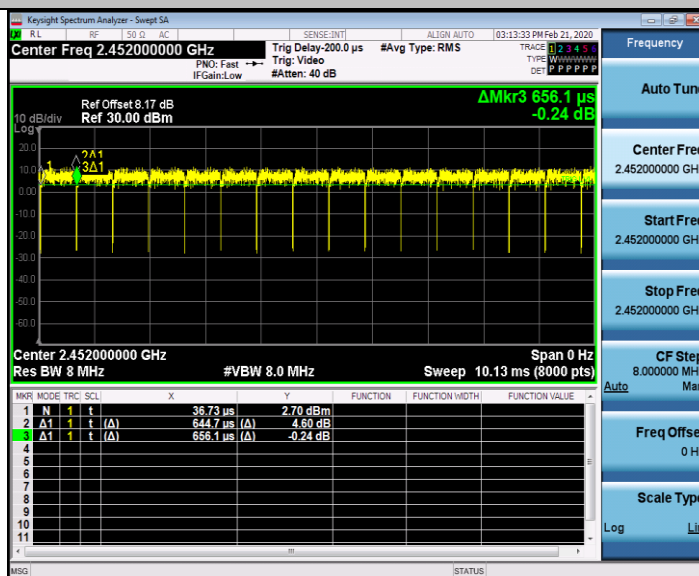
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO Ant1 2452



4.3 Power Spectral Density Measurement

4.3.1 Limits of Power Spectral Density

FCC§15.247(e)

IC RSS-247 5.2(b)

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

4.3.2 Test Procedure

1. The testing follows Measurement Procedure 8.4 DTS maximum power spectral density level in the fundamental emission of ANSI C63.10-2013 section 11.9.2.2.4
2. Turn on the EUT and connect it to measurement instrument.
3. Measure the duty cycle, x , of the transmitter output signal as described in below:
 - a. Set the center frequency of the instrument to the center frequency of the transmission.
 - b. Set RBW to the largest available Transmitting value.
 - c. Set detector = peak
4. Set span to at least $1.5 \times \text{OBW}$. Set RBW= 30 KHz, VBW=100 KHz, Number of points in sweep $\geq 2/3 \times \text{span}$, Sweep time = auto.
5. Detector = power averaging (rms), Sweep time = auto couple, Trace mode = averaging (rms) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level.
6. Add $10 \log (1/x)$, where x is the duty cycle. The duty cycle factor has been compensated to the "offset" of spectrum analyzer.
7. Measure and record the results in the test report.
8. The Measured power density (dBm)/ 100kHz is a reference level and used as 30dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.
9. Add $10 \log(1/x)$, where x is the duty cycle. The duty cycle factor has been compensated to the "offset" of the spectrum analyser.

4.3.3 Test Result of Power Spectral Density

Test Mode :		TX Mode		Temperature :		24~26℃
Test Engineer :		Jack Liu		Relative Humidity :		50~53%
TestMode	Antenna	Channel	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.01	-22.01	<=8	PASS
		2437	-12.66	-22.66	<=8	PASS
		2462	-13.04	-23.04	<=8	PASS
11G	Ant1	2412	-14.08	-24.08	<=8	PASS
		2437	-14.34	-24.34	<=8	PASS
		2462	-14.35	-24.35	<=8	PASS
11N20SISO	Ant1	2412	-15.41	-25.41	<=8	PASS
		2437	-15.75	-25.75	<=8	PASS
		2462	-14.8	-24.8	<=8	PASS
11N40SISO	Ant1	2422	-18.09	-28.09	<=8	PASS
		2437	-18.33	-28.33	<=8	PASS
		2452	-17.94	-27.94	<=8	PASS

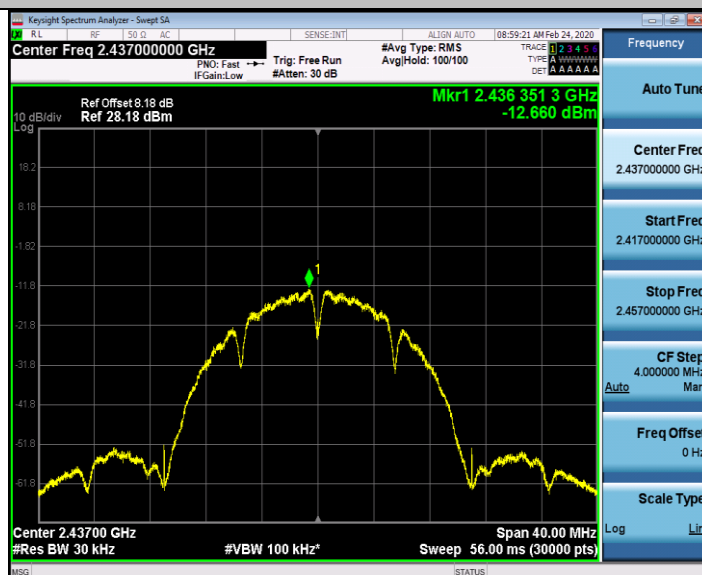
Note: Result[dBm/3kHz]= Result[dBm/30kHz] + 10*LOG(3KHz/30KHz)

Power Spectral Density Plot

11B_Ant1_2412



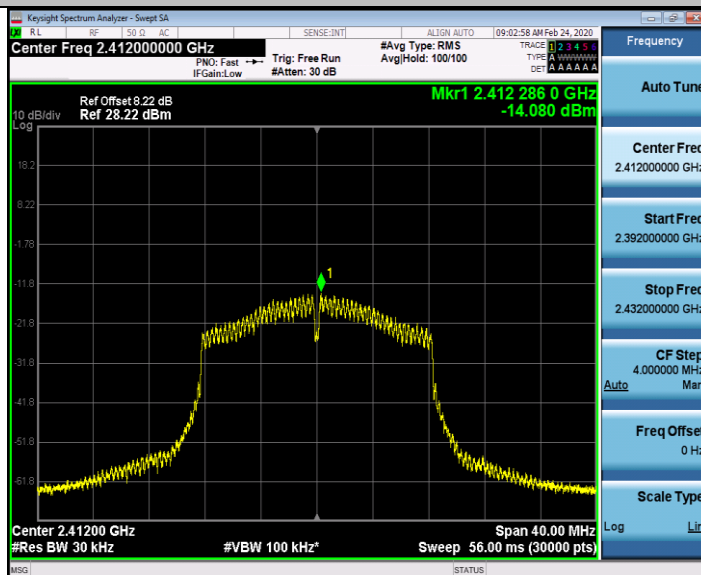
11B_Ant1_2437



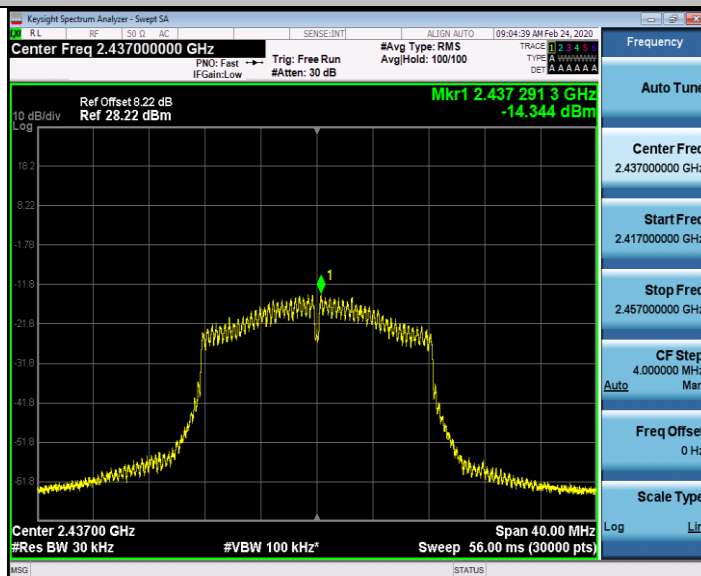
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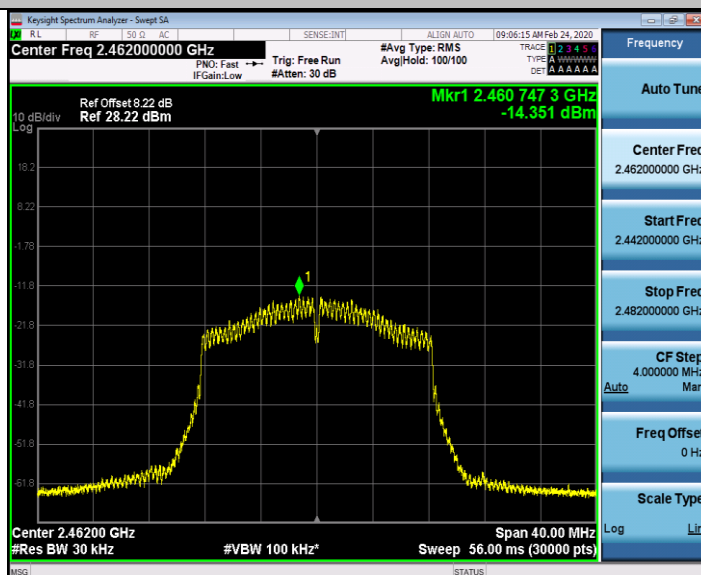
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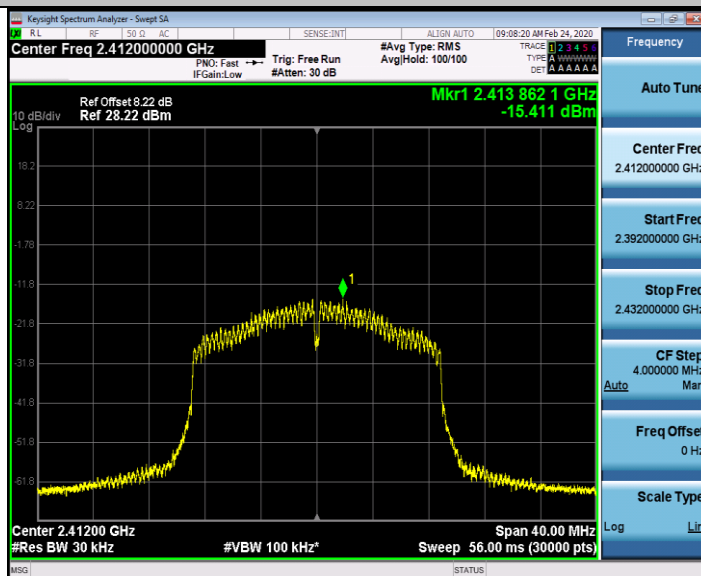
11G_Ant1_2437



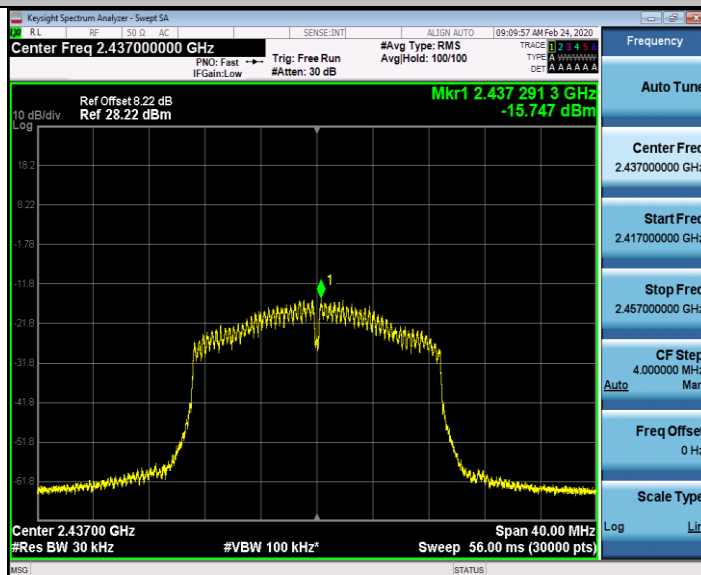
11G_Ant1_2462



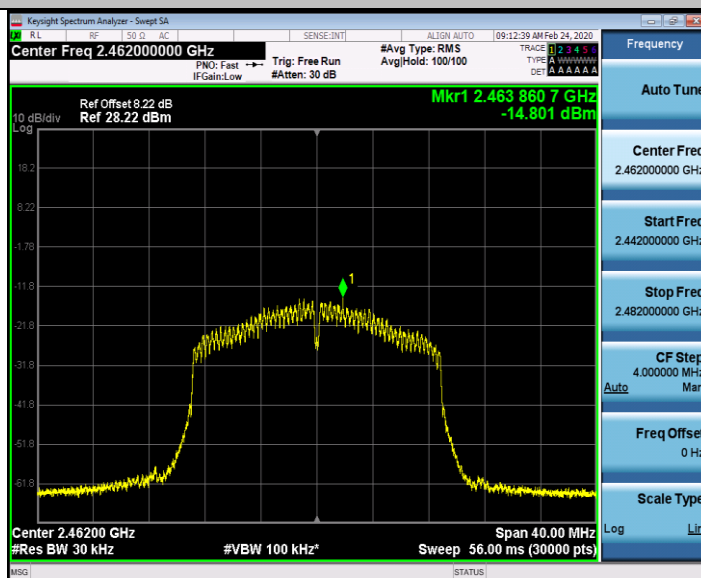
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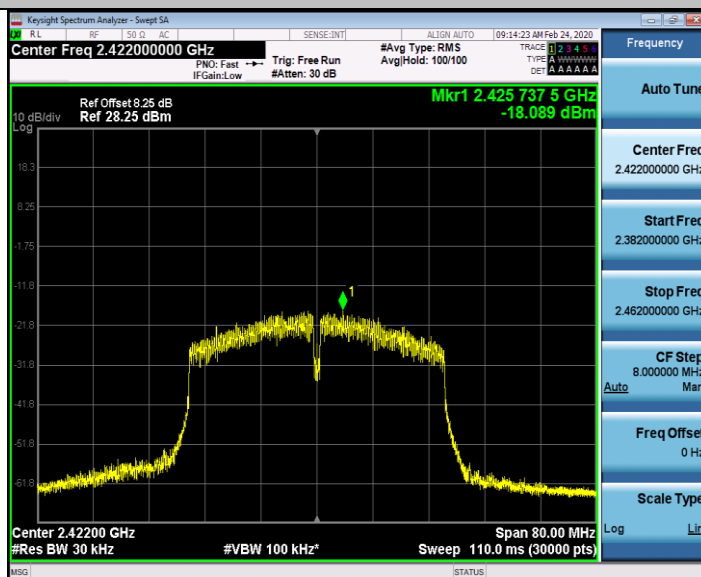
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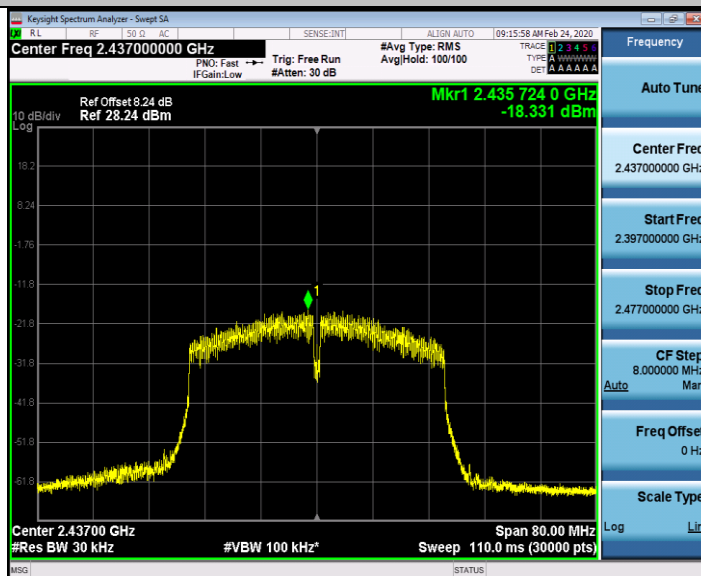
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

