



CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	51.52	59.56	74	-22.48	31.75	6.18	45.97	200	215	Peak
2390	43.35	51.39	54	-10.65	31.75	6.18	45.97	200	215	Average
2480	98.68	106.27	/	/	32.04	6.3	45.93	200	215	Peak
2480	97.75	105.34	/	/	32.04	6.3	45.93	200	215	Average
2483.5	53.92	61.49	74	-20.08	32.05	6.31	45.93	200	215	Peak
2483.5	45.37	52.94	54	-8.63	32.05	6.31	45.93	200	215	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
2390	52.16	59.81	74	-21.84	32.14	6.18	45.97	100	170	Peak
2390	44.57	52.22	54	-9.43	32.14	6.18	45.97	100	170	Average
2480	91.56	98.84	/	/	32.35	6.3	45.93	100	170	Peak
2480	90.56	97.84	/	/	32.35	6.3	45.93	100	170	Average
2483.5	50.99	58.25	74	-23.01	32.36	6.31	45.93	100	170	Peak
2483.5	45.33	52.59	54	-8.67	32.36	6.31	45.93	100	170	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2480MHz: Fundamental frequency.



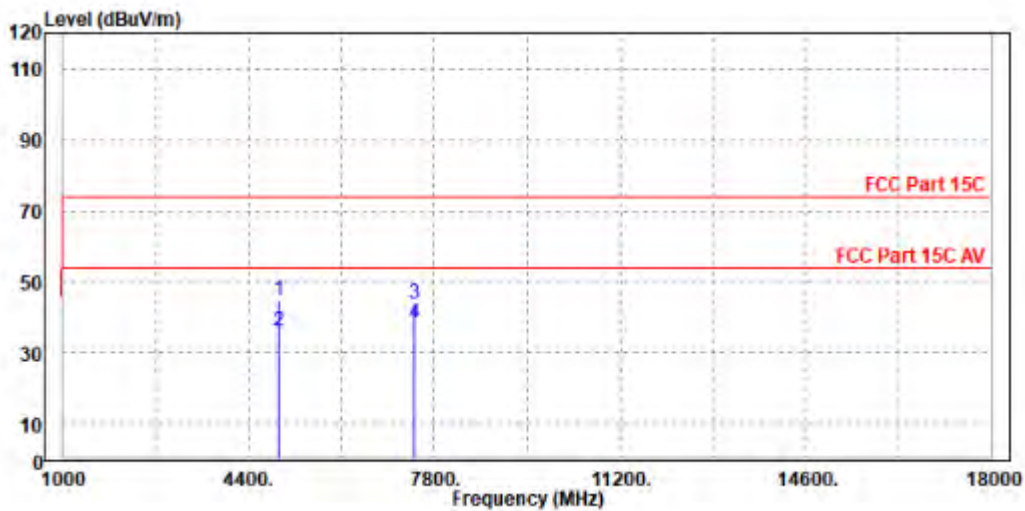
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Worst case harmonic:

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	PK 4961.000	44.53	45.72	74.00	-29.47	-1.19	Peak	Horizontal
2	4961.000	35.93	37.12	54.00	-18.07	-1.19	Average	Horizontal
3	7440.000	43.95	41.97	74.00	-30.05	1.98	Peak	Horizontal
4	PP 7440.000	38.24	36.26	54.00	-15.76	1.98	Average	Horizontal



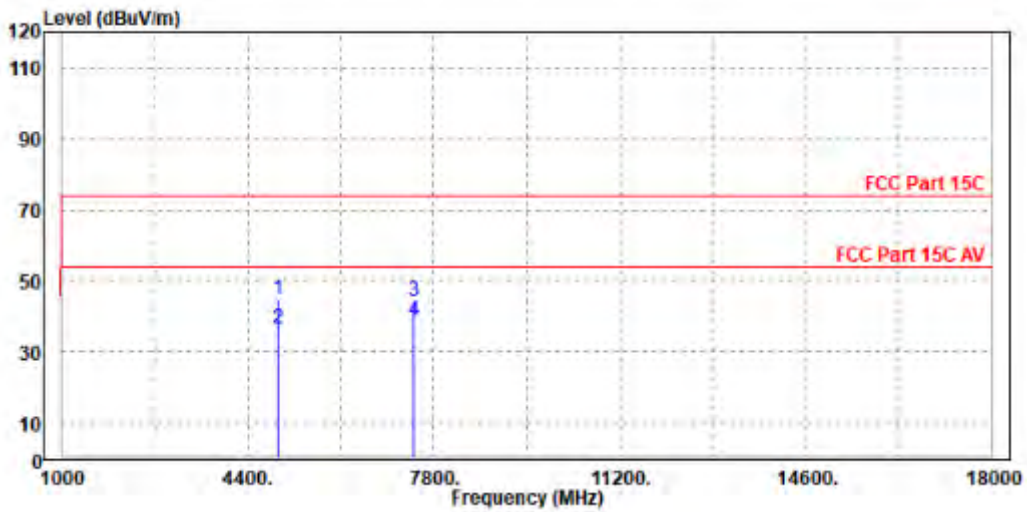


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Test Report No.: W7L-P22070039RF02

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 PK	4960.000	44.94	45.93	74.00	-29.06	-0.99	Peak	Vertical
2	4960.000	36.31	37.30	54.00	-17.69	-0.99	Average	Vertical
3	7443.000	44.04	42.04	74.00	-29.96	2.00	Peak	Vertical
4 PP	7443.000	38.85	36.85	54.00	-15.15	2.00	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 2402MHz: Fundamental frequency.



3.3 6 dB BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 22,22	Feb. 21,23
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 18,22	Feb. 17,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Power Sensor	ANRITSU	MA2411B	1339352	May. 06,22	May. 05,23

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.3.3 TEST PROCEDURE

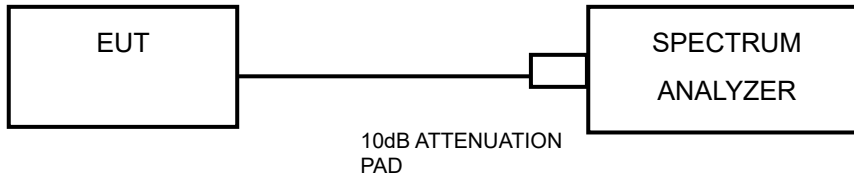
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



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Test Report No.: W7L-P22070039RF02

3.3.7 TEST RESULTS

Please Refer to Appendix1/2 Of this test report.

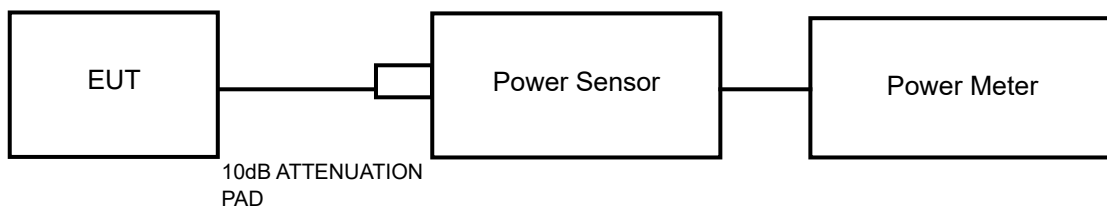


3.4 CONDUCTED OUTPUT POWER

3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



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3.4.7 TEST RESULTS

3.4.7.1 MAXIMUM PEAK OUTPUT POWER

Please Refer to Appendix1/2 Of this test report.



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Test Report No.: W7L-P22070039RF02

3.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

Please Refer to Appendix1/2 Of this test report.

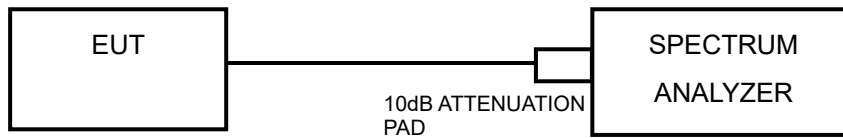


3.5 POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.5.4 TEST PROCEDURE

1. Set the span to 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW $\geq 3 \times$ RBW, Detector = peak.
3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



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Test Report No.: W7L-P22070039RF02

3.5.7 TEST RESULTS

Please Refer to Appendix1/2 Of this test report.

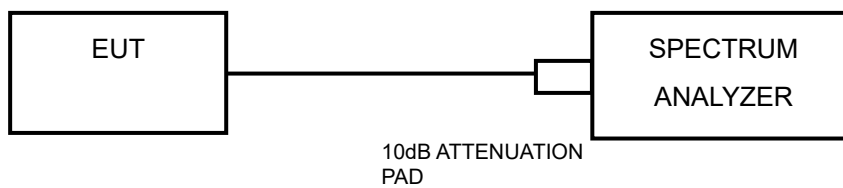


3.6 OUT OF BAND EMISSION MEASUREMENT

3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW \geq 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.6.7 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

Please Refer to Appendix1/2 Of this test report.



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Test Report No.: W7L-P22070039RF02

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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Test Report No.: W7L-P22070039RF02

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



6 Appendix 1 WLAN 2.4G

DTS BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.560	2407.480	2417.040	0.5	PASS
		2437	9.600	2432.440	2442.040	0.5	PASS
		2462	9.600	2456.960	2466.560	0.5	PASS
11G	Ant1	2412	16.040	2404.120	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.800	2403.720	2420.520	0.5	PASS
		2437	17.160	2428.320	2445.480	0.5	PASS
		2462	16.960	2453.640	2470.600	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.480	2439.920	0.5	PASS
		2437	35.600	2418.920	2454.520	0.5	PASS
		2452	35.520	2434.480	2470.000	0.5	PASS



TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

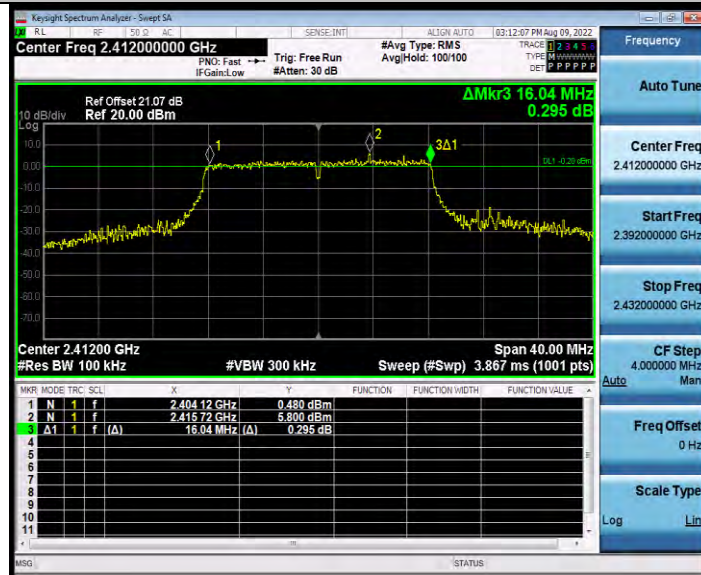


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11G_Ant1_2412

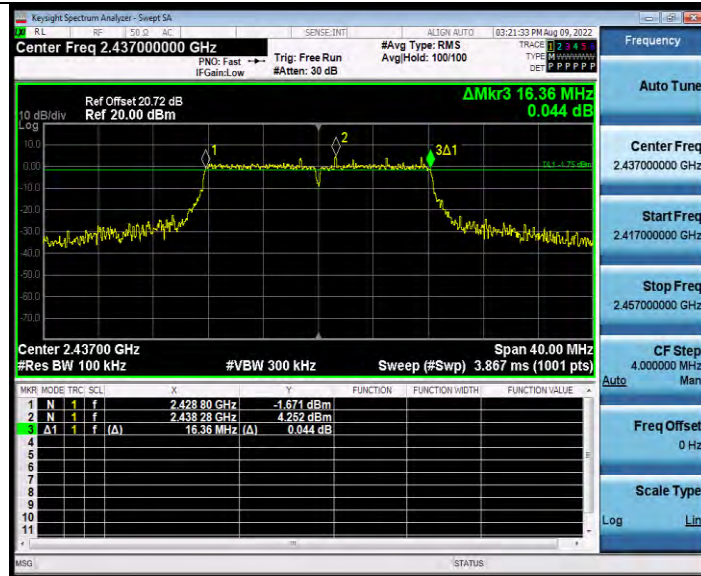


11G_Ant1_2437



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11G_Ant1_2462

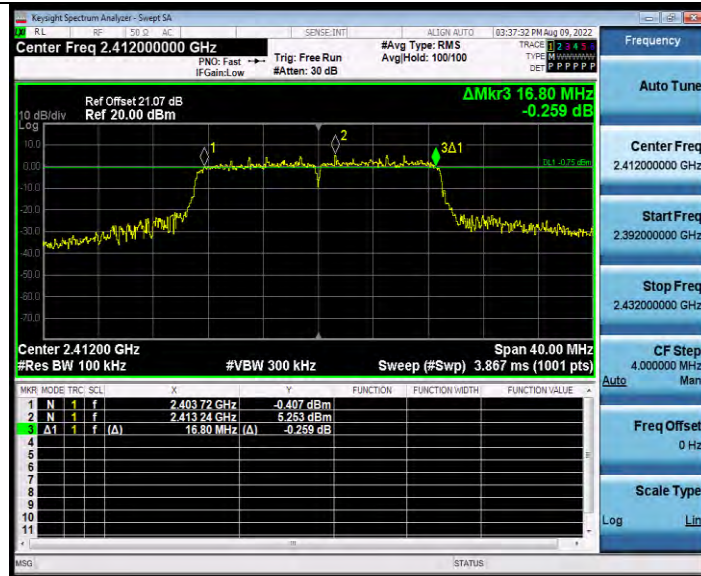


11N20SISO_Ant1_2412



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11N20SISO_Ant1_2437

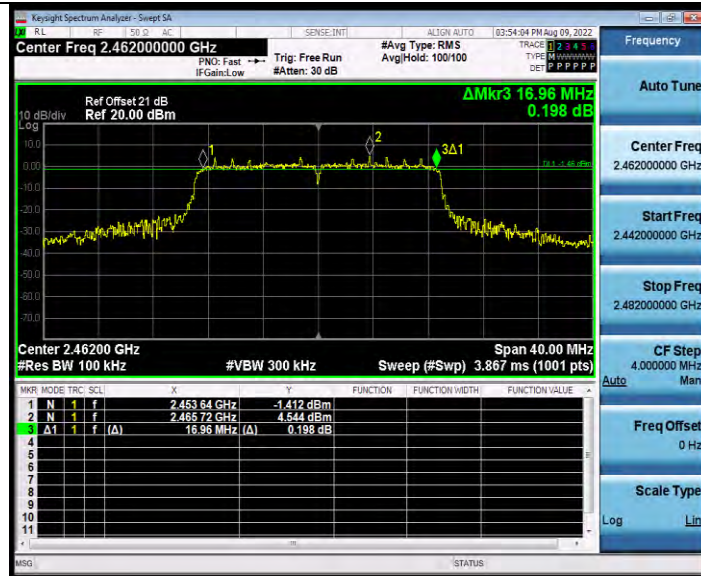


11N20SISO_Ant1_2462



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11N40SISO_Ant1_2422

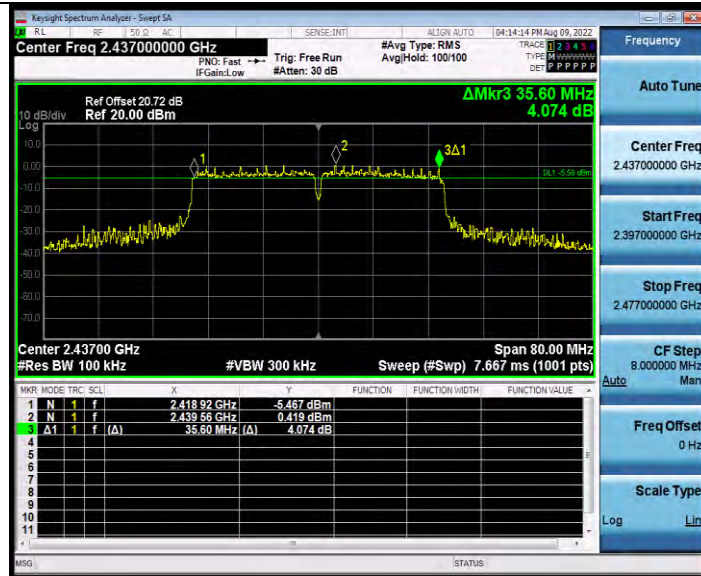


11N40SISO_Ant1_2437



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Test Report No.: W7L-P22070039RF02



11N40SISO_Ant1_2452





**OCCUPIED CHANNEL BANDWIDTH
TEST RESULT**

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.920	2406.138	2418.058	---	---
		2437	12.044	2430.969	2443.013	---	---
		2462	11.960	2456.042	2468.002	---	---
11G	Ant1	2412	16.684	2403.713	2420.397	---	---
		2437	16.600	2428.726	2445.326	---	---
		2462	16.598	2453.705	2470.303	---	---
11N20SISO	Ant1	2412	17.650	2403.246	2420.896	---	---
		2437	17.724	2428.132	2445.856	---	---
		2462	17.611	2453.228	2470.839	---	---
11N40SISO	Ant1	2422	36.225	2403.989	2440.214	---	---
		2437	36.142	2418.858	2455.000	---	---
		2452	36.133	2434.014	2470.147	---	---

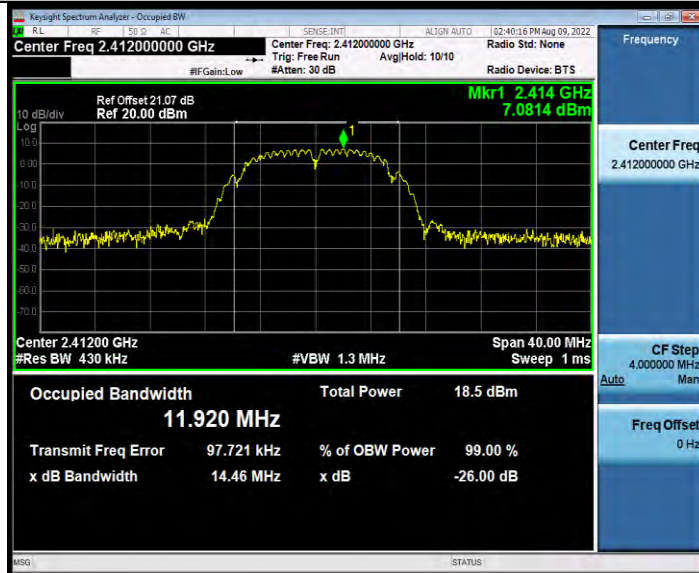


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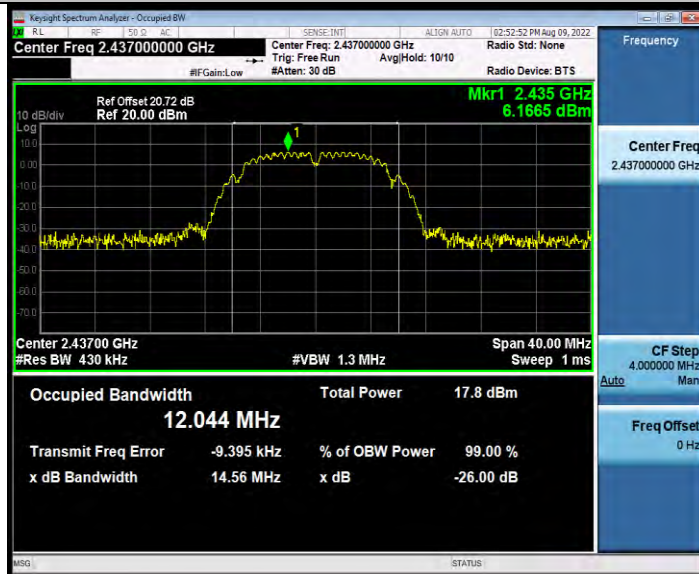
Test Report No.: W7L-P22070039RF02

TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437

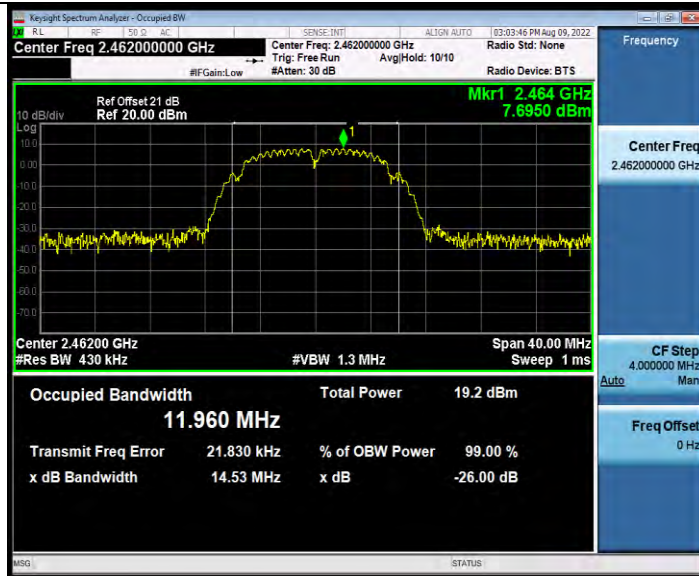


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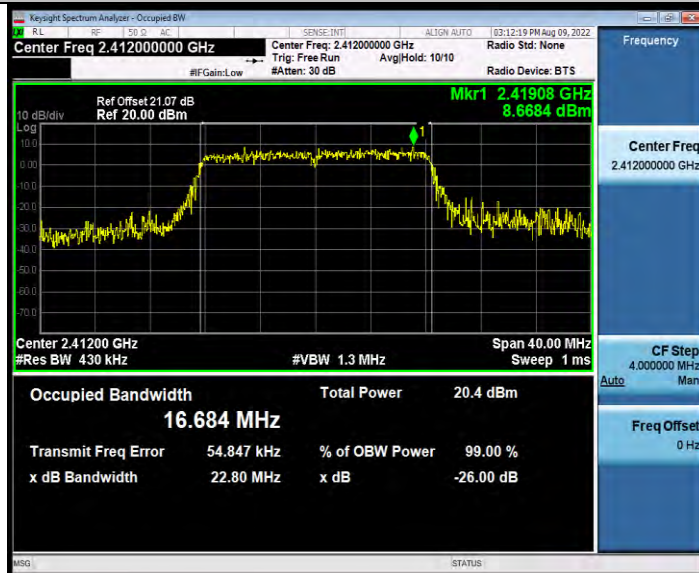


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11G_Ant1_2412

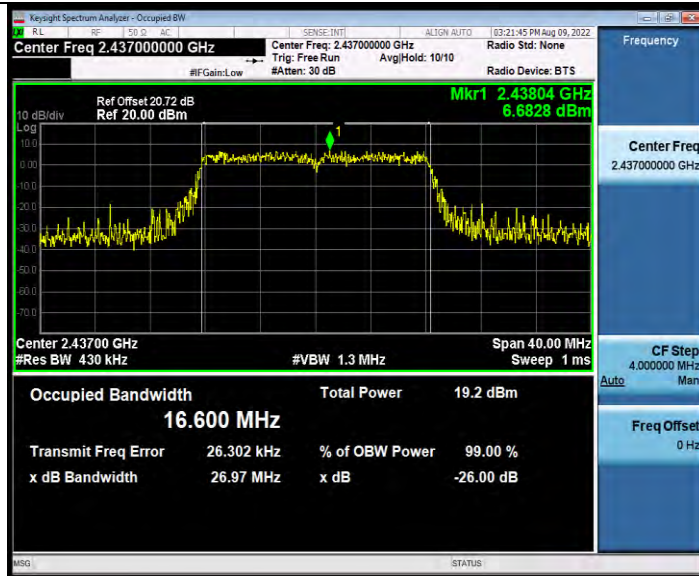


11G_Ant1_2437

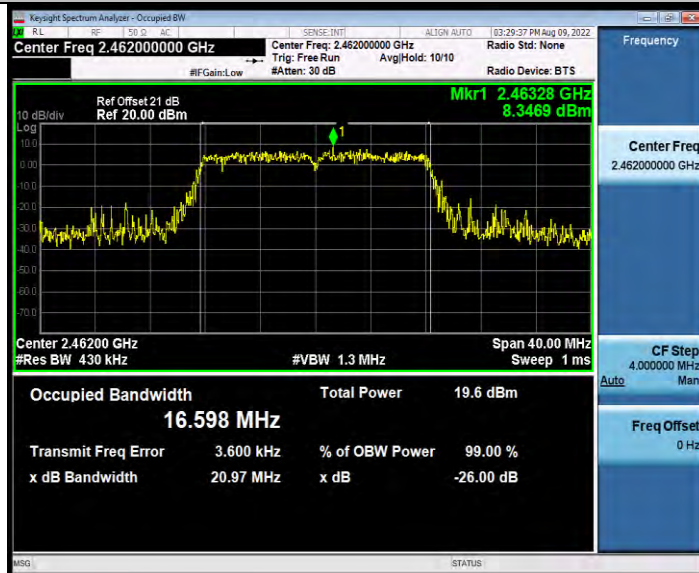


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Test Report No.: W7L-P22070039RF02



11G_Ant1_2462



11N20SISO_Ant1_2412

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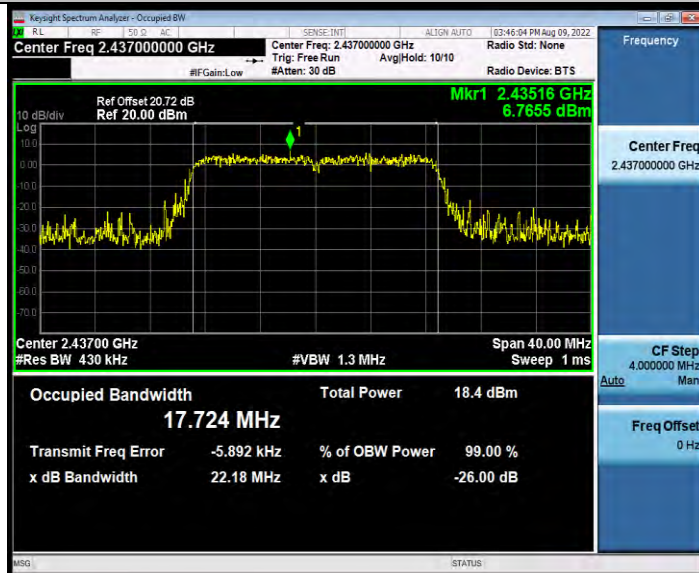


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Test Report No.: W7L-P22070039RF02



11N20SISO_Ant1_2437

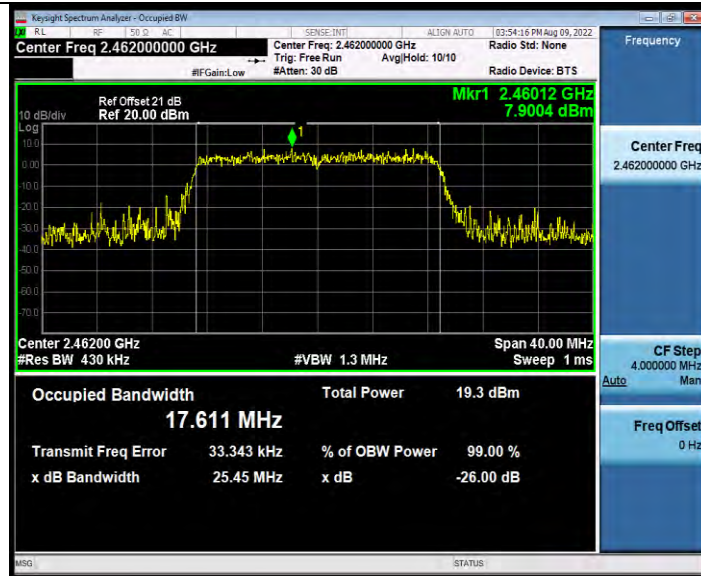


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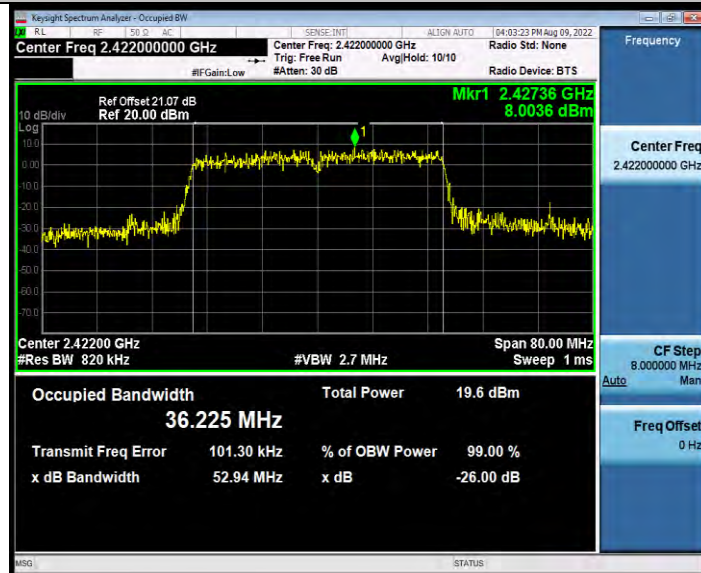


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11N40SISO_Ant1_2422

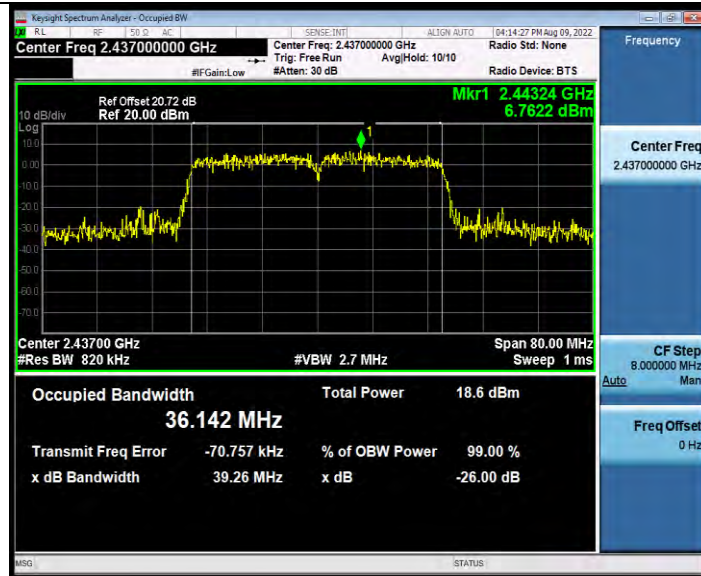


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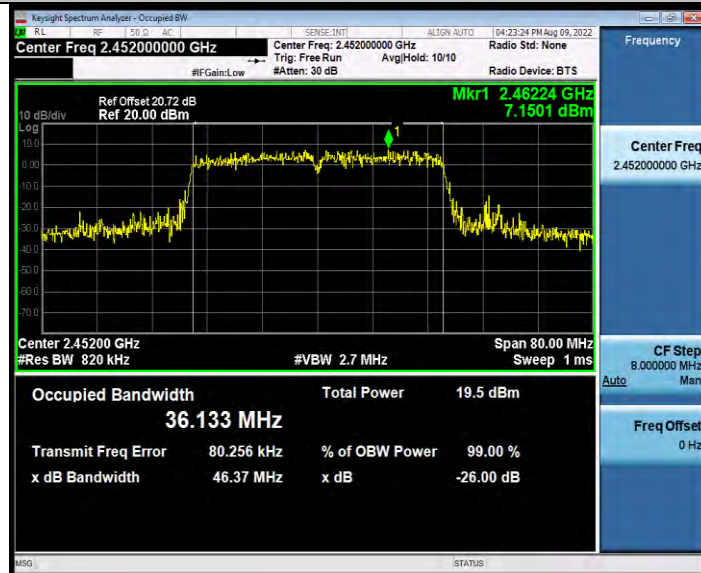


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11N40SISO_Ant1_2452



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**MAXIMUM CONDUCTED OUTPUT POWER
TEST RESULT PEAK**

TestMode	Antenna	Frequency [MHz]	Peak Power [dBm]	Peak Power [mW]	Conducted Limit [dBm]	Verdict	Set Power
11B	Ant1	2412	20.38	109.14	≤30.00	PASS	Default
		2437	19.52	89.54	≤30.00	PASS	Default
		2462	20.48	111.69	≤30.00	PASS	Default
11G	Ant1	2412	24.11	257.63	≤30.00	PASS	Default
		2437	22.58	181.13	≤30.00	PASS	Default
		2462	18.82	76.21	≤30.00	PASS	8
11N20SIS O	Ant1	2412	21.72	148.59	≤30.00	PASS	10
		2437	22.04	159.96	≤30.00	PASS	Default
		2462	18.88	77.27	≤30.00	PASS	8
11N40SIS O	Ant1	2422	17.52	56.49	≤30.00	PASS	7
		2437	21.16	130.62	≤30.00	PASS	Default
		2452	17.00	50.12	≤30.00	PASS	7

TEST RESULT AVERAGE

TestMode	Antenna	Frequency [MHz]	Average Power [dBm]	Average Power [mW]	Conducted Limit [dBm]	Verdict	Set Power
11B	Ant1	2412	16.38	43.45	/	PASS	Default
		2437	15.58	36.14	/	PASS	Default
		2462	16.52	44.87	/	PASS	Default
11G	Ant1	2412	16.16	41.3	/	PASS	Default
		2437	15.30	33.88	/	PASS	Default
		2462	11.01	12.62	/	PASS	8
11N20SIS O	Ant1	2412	13.33	21.53	/	PASS	10
		2437	14.02	25.23	/	PASS	Default
		2462	10.94	12.42	/	PASS	8
11N40SIS O	Ant1	2422	9.33	8.57	/	PASS	7
		2437	13.01	20	/	PASS	Default
		2452	9.22	8.36	/	PASS	7



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Test Report No.: W7L-P22070039RF02

SPOT CHECK

TestMode	Antenna	Frequency [MHz]	Peak Power [dBm]	Peak Power [mW]	Conducted Limit [dBm]	Verdict	Set Power
11G	Ant1	2412	24.02	252.35	≤30.00	PASS	Default
		2437	21.42	138.68	≤30.00	PASS	Default
		2462	18.53	71.29	≤30.00	PASS	8

TestMode	Antenna	Frequency [MHz]	Average Power [dBm]	Average Power [mW]	Conducted Limit [dBm]	Verdict	Set Power
11G	Ant1	2412	15.42	34.83	/	PASS	Default
		2437	14.99	31.55	/	PASS	Default
		2462	10.47	11.14	/	PASS	8

MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

TestMode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-3.49	≤8.00	PASS
		2437	-4.86	≤8.00	PASS
		2462	-3.48	≤8.00	PASS
11G	Ant1	2412	-7.72	≤8.00	PASS
		2437	-9.63	≤8.00	PASS
		2462	-9.58	≤8.00	PASS
11N20SISO	Ant1	2412	-8.45	≤8.00	PASS
		2437	-9.69	≤8.00	PASS
		2462	-8.79	≤8.00	PASS
11N40SISO	Ant1	2422	-12.21	≤8.00	PASS
		2437	-13.79	≤8.00	PASS
		2452	-12.78	≤8.00	PASS



BUREAU VERITAS

Test Report No.: W7L-P22070039RF02

TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



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Test Report No.: W7L-P22070039RF02



11G_Ant1_2412



11G_Ant1_2437



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Test Report No.: W7L-P22070039RF02



11G_Ant1_2462

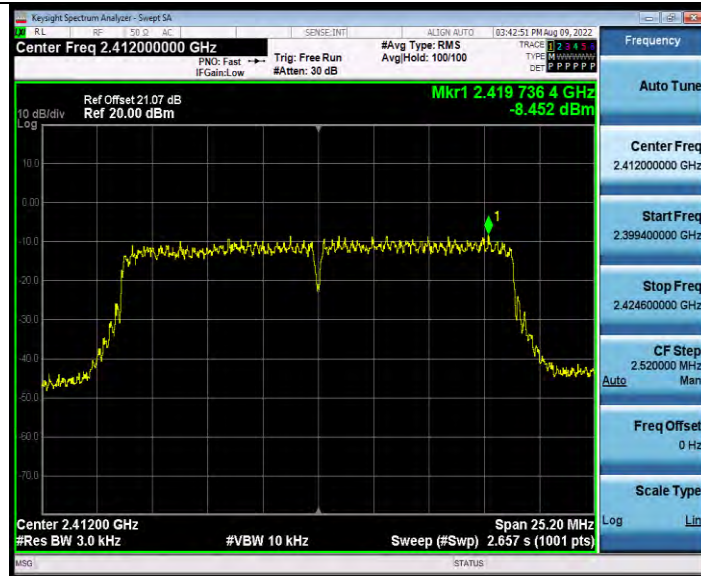


11N20SISO_Ant1_2412



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Test Report No.: W7L-P22070039RF02



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



REFERENCE LEVEL MEASUREMENT

TEST RESULT

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2413.99	7.57
		2437	2439.98	5.43
		2462	2462.99	7.69
11G	Ant1	2412	2413.25	5.66
		2437	2430.74	4.20
		2462	2469.49	4.87
11N20SISO	Ant1	2412	2419.51	5.40
		2437	2431.98	3.69
		2462	2466.99	4.09
11N40SISO	Ant1	2422	2434.49	2.10
		2437	2439.51	0.97
		2452	2463.24	1.77



TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



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Test Report No.: W7L-P22070039RF02



11G_Ant1_2412



11G_Ant1_2437



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Test Report No.: W7L-P22070039RF02



11G_Ant1_2462



11N20SISO_Ant1_2412



BUREAU VERITAS

Test Report No.: W7L-P22070039RF02



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

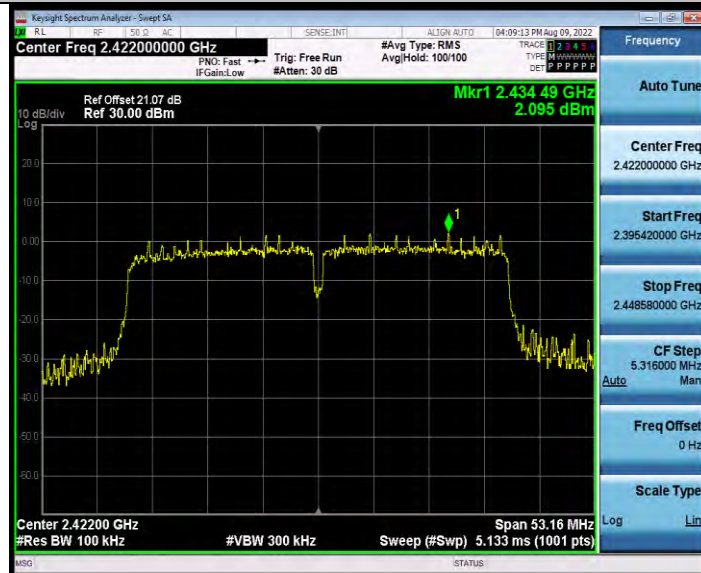


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11N40SISO_Ant1_2422

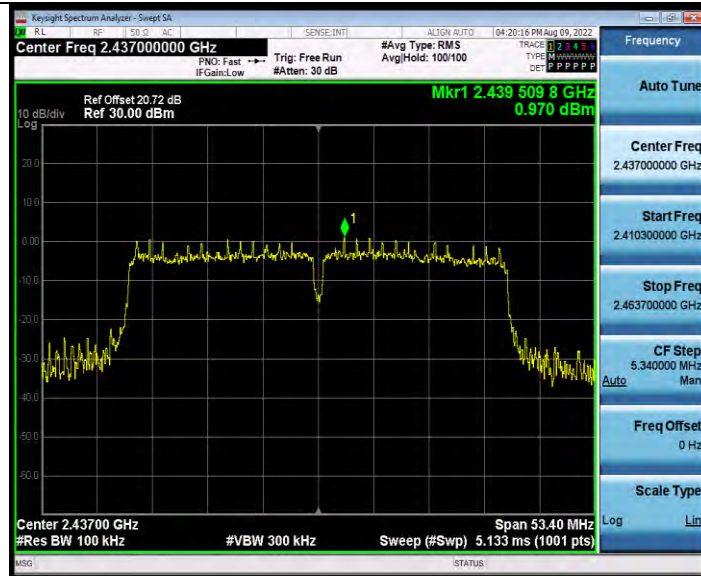


11N40SISO_Ant1_2437



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Test Report No.: W7L-P22070039RF02



11N40SISO_Ant1_2452





BAND EDGE MEASUREMENTS

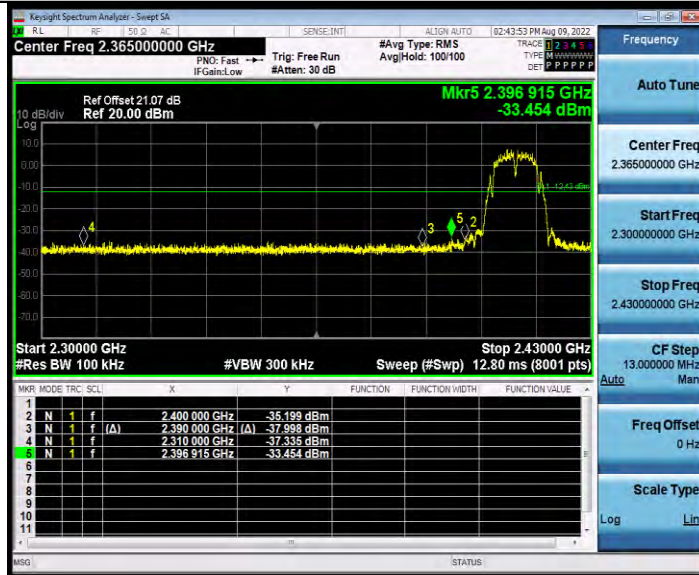
TEST RESULT

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.57	-33.45	≤-12.43	PASS
		High	2462	7.69	-33.63	≤-12.31	PASS
11G	Ant1	Low	2412	5.66	-24.35	≤-14.34	PASS
		High	2462	4.87	-33.56	≤-15.13	PASS
11N20SISO	Ant1	Low	2412	5.40	-24.22	≤-14.6	PASS
		High	2462	4.09	-34.2	≤-15.91	PASS
11N40SISO	Ant1	Low	2422	2.10	-26.75	≤-17.9	PASS
		High	2452	1.77	-31.13	≤-18.23	PASS

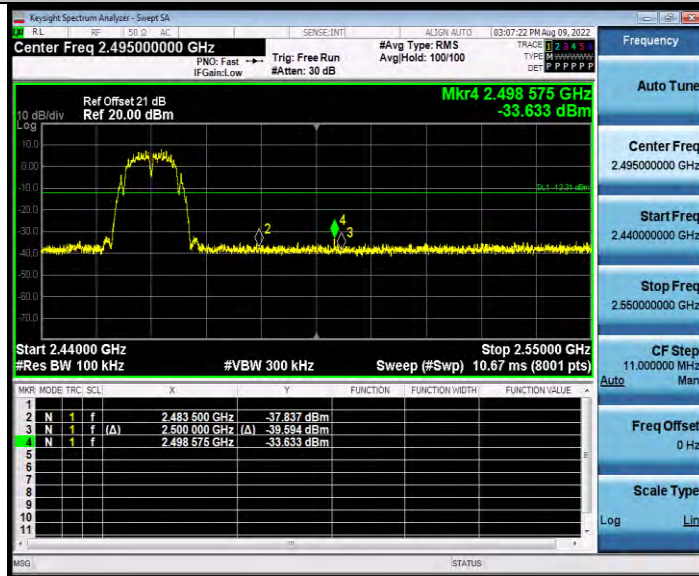


TEST GRAPHS

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

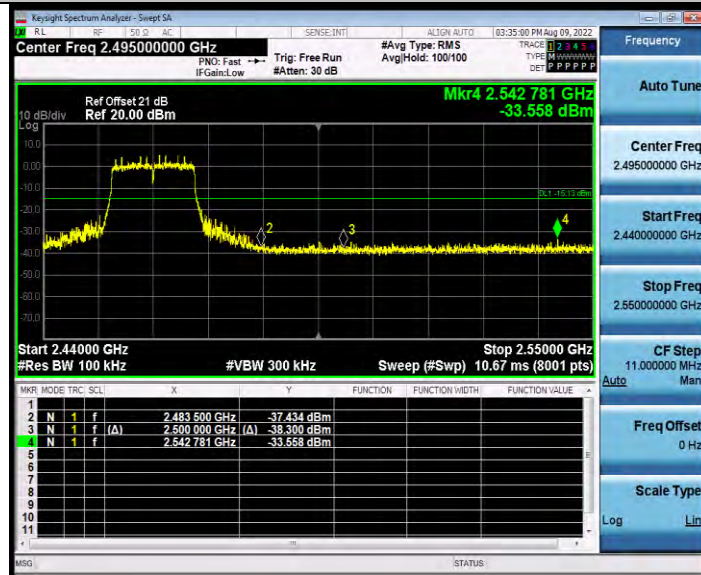


BUREAU VERITAS

Test Report No.: W7L-P22070039RF02



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

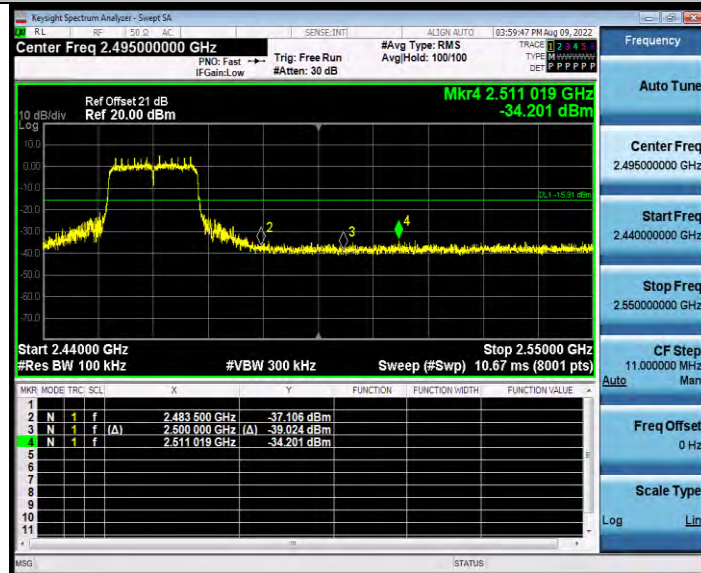


BUREAU VERITAS

Test Report No.: W7L-P22070039RF02



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

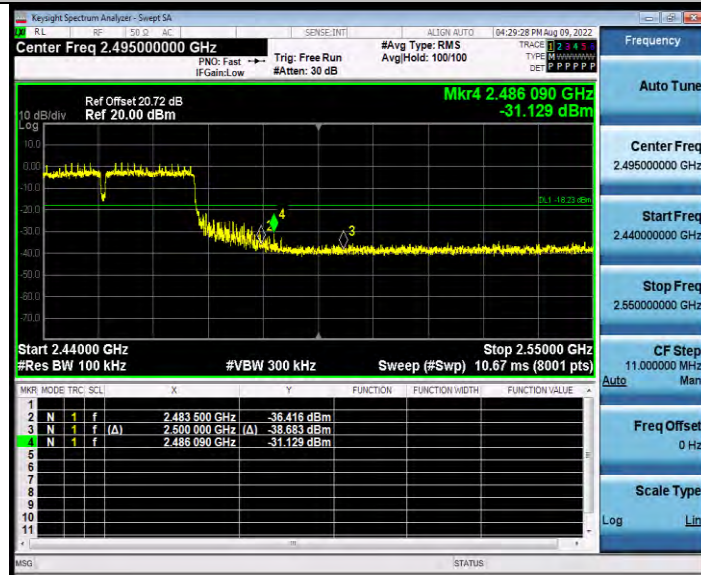


BUREAU VERITAS

Test Report No.: W7L-P22070039RF02



11N40SISO_Ant1_High_2452





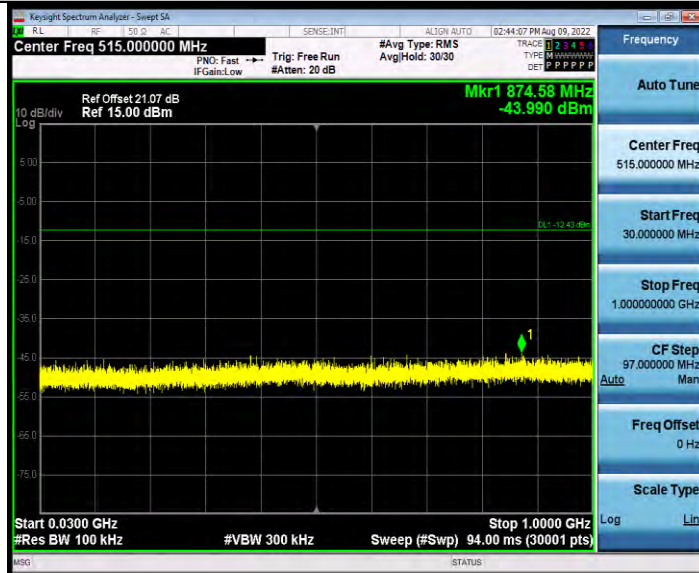
CONDUCTED SPURIOUS EMISSION TEST RESULT

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	7.57	-43.99	≤-12.43	PASS
			1000~26500	7.57	-27.61	≤-12.43	PASS
		2437	30~1000	5.43	-43.92	≤-14.57	PASS
			1000~26500	5.43	-28.08	≤-14.57	PASS
		2462	30~1000	7.69	-44.34	≤-12.31	PASS
			1000~26500	7.69	-28	≤-12.31	PASS
11G	Ant1	2412	30~1000	5.66	-44.14	≤-14.34	PASS
			1000~26500	5.66	-27.92	≤-14.34	PASS
		2437	30~1000	4.20	-44.13	≤-15.8	PASS
			1000~26500	4.20	-28.37	≤-15.8	PASS
		2462	30~1000	4.87	-43.43	≤-15.13	PASS
			1000~26500	4.87	-27.78	≤-15.13	PASS
11N20SISO	Ant1	2412	30~1000	5.40	-43.65	≤-14.6	PASS
			1000~26500	5.40	-27.32	≤-14.6	PASS
		2437	30~1000	3.69	-44.02	≤-16.31	PASS
			1000~26500	3.69	-27.83	≤-16.31	PASS
		2462	30~1000	4.09	-43.9	≤-15.91	PASS
			1000~26500	4.09	-27.69	≤-15.91	PASS
11N40SISO	Ant1	2422	30~1000	2.10	-44.16	≤-17.9	PASS
			1000~26500	2.10	-27.5	≤-17.9	PASS
		2437	30~1000	0.97	-44.15	≤-19.03	PASS
			1000~26500	0.97	-28.34	≤-19.03	PASS
		2452	30~1000	1.77	-43.9	≤-18.23	PASS
			1000~26500	1.77	-28.34	≤-18.23	PASS



TEST GRAPHS

11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant1_2437_30~1000



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Test Report No.: W7L-P22070039RF02



11B_Ant1_2437_1000~26500



11B_Ant1_2462_30~1000

BV 7Layers Communications Technology
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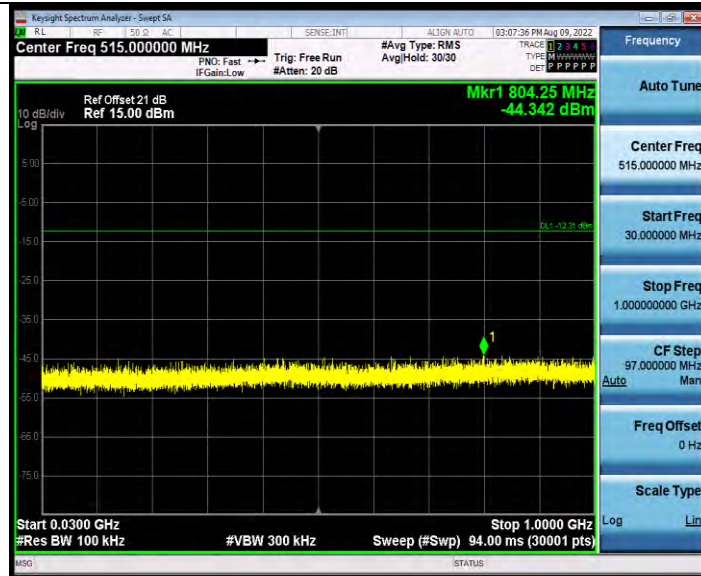
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566
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Test Report No.: W7L-P22070039RF02



11B_Ant1_2462_1000~26500



11G_Ant1_2412_30~1000

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

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11G_Ant1_2412_1000~26500

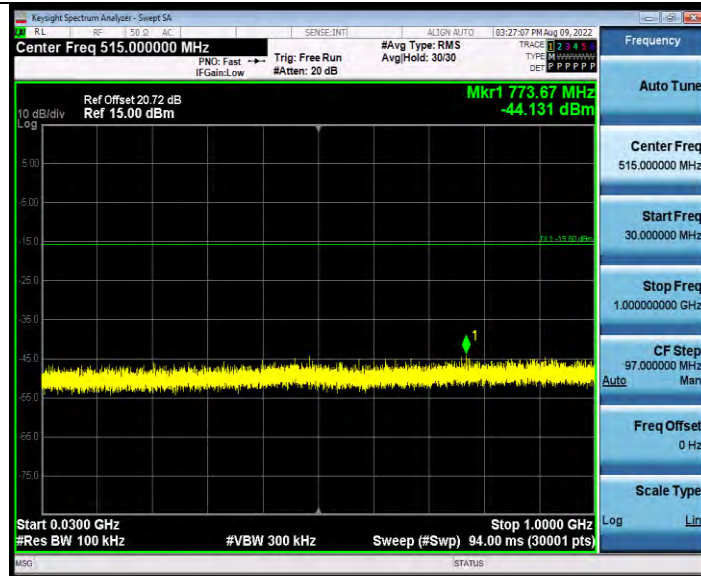


11G_Ant1_2437_30~1000



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11G_Ant1_2437_1000~26500



11G_Ant1_2462_30~1000

BV 7Layers Communications Technology
(Shenzhen) Co., Ltd

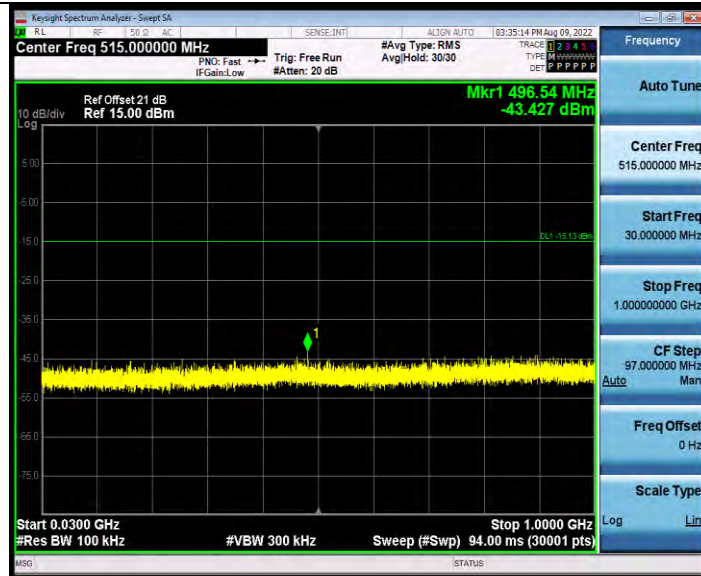
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_30~1000

BV 7Layers Communications Technology
(Shenzhen) Co., Ltd

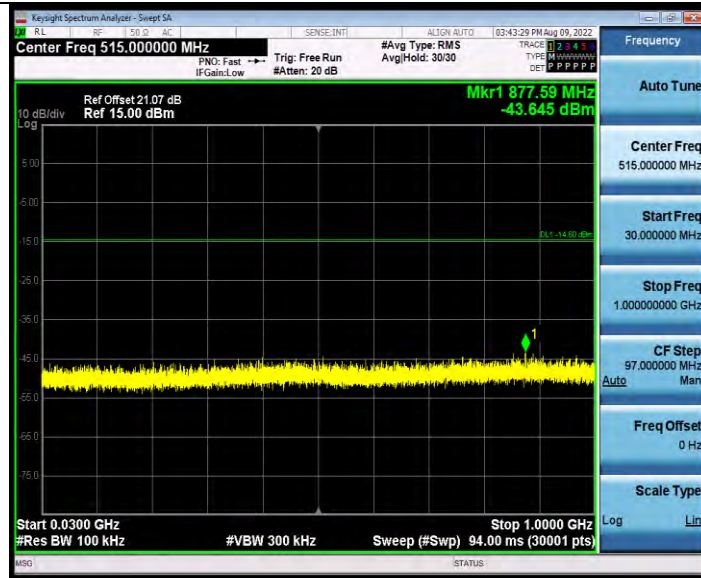
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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11N20SISO_Ant1_2412_1000~26500

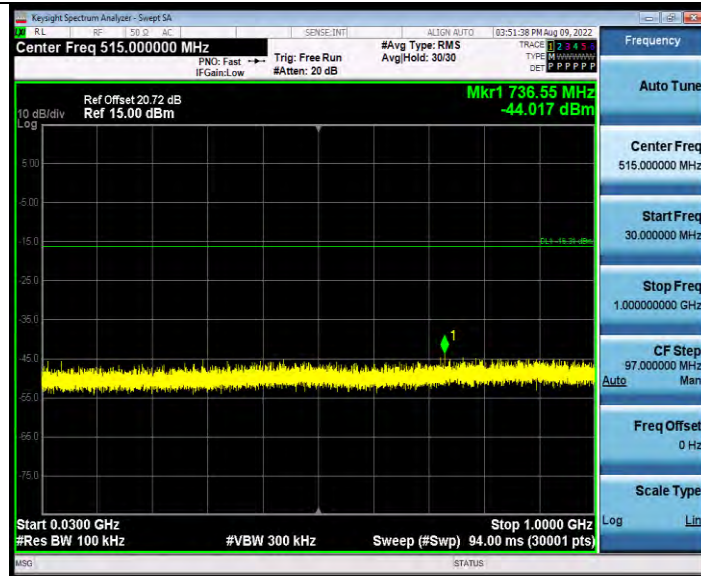


11N20SISO_Ant1_2437_30~1000



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Test Report No.: W7L-P22070039RF02



11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_30~1000

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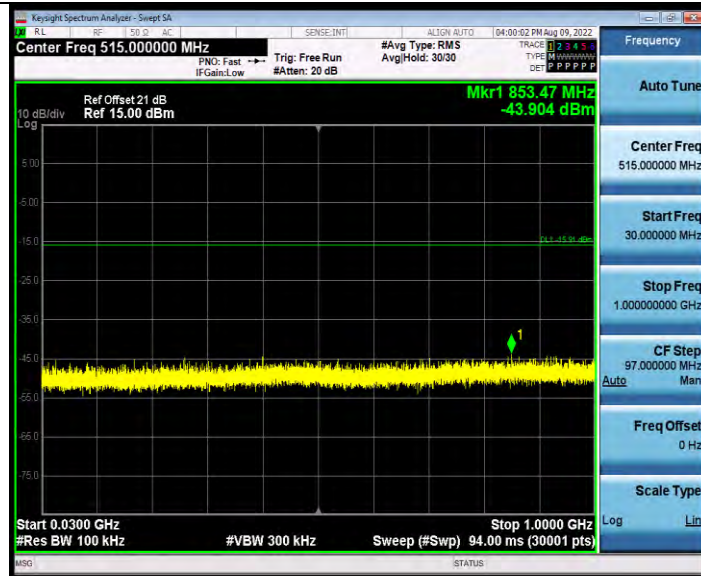
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11N20SISO_Ant1_2462_1000~26500

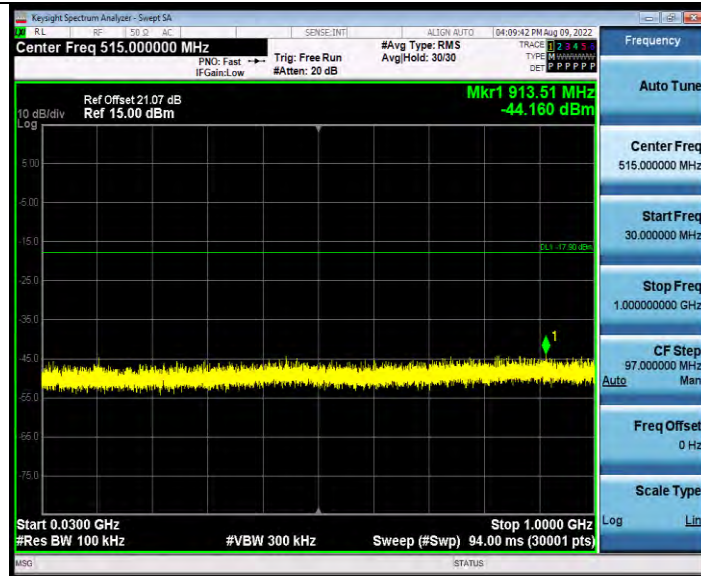


11N40SISO_Ant1_2422_30~1000



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11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_30~1000



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Test Report No.: W7L-P22070039RF02



11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000