



Test Report No.: W7L-P23060012RF03

### 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 specific channel frequencies individually.



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**VERITAS**

### 3.4.7 TEST RESULTS

Please Refer to Appendix 1 of this test report.

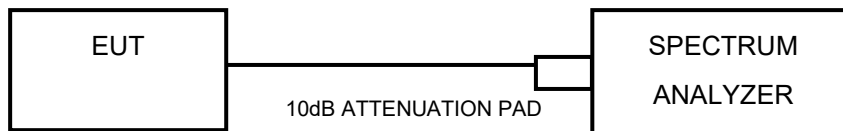


### 3.5 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

#### 3.5.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Client devices	11dBm/ MHz
U-NII-2A		√	11dBm/ MHz
U-NII-2C		√	11dBm/ MHz
U-NII-3		√	30dBm/ 500kHz

#### 3.5.2 TEST SETUP



#### 3.5.3 TEST INSTRUMENTS

Refer to section 3.2.2 to get information of above instrument.



### 3.5.4 TEST PROCEDURES

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Add  $10 \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
- 7) Record the max value

### 3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

### 3.5.6 EUT OPERATING CONDITIONS

Same as 3.1.6.



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### 3.5.7 TEST RESULTS

Please Refer to Appendix 1 of this test report.



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## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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## 5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.



APPENDIX 1:
EMISSION BANDWIDTH
TEST RESULT

Table with 8 columns: TestMode, Antenna, Frequency[MHz], 26db EBW [MHz], FL[MHz], FH[MHz], Limit[MHz], Verdict. It contains test results for modes 11A, 11N20SISO, and 11N40SISO across various frequencies.





		5270	41.520	5249.440	5290.960	---	PASS
		5310	41.200	5289.600	5330.800	---	PASS
		5510	41.360	5489.520	5530.880	---	PASS
		5550	41.120	5529.760	5570.880	---	PASS
		5670	41.360	5649.520	5690.880	---	PASS
		5755	41.760	5734.440	5776.200	---	PASS
		5795	41.520	5774.600	5816.120	---	PASS
11AC20SISO	Ant1	5180	23.640	5168.120	5191.760	---	PASS
		5200	23.320	5188.280	5211.600	---	PASS
		5240	22.440	5228.880	5251.320	---	PASS
		5260	24.160	5247.920	5272.080	---	PASS
		5280	22.800	5268.600	5291.400	---	PASS
		5320	23.080	5308.520	5331.600	---	PASS
		5500	23.520	5488.560	5512.080	---	PASS
		5580	23.200	5568.240	5591.440	---	PASS
		5700	22.840	5688.600	5711.440	---	PASS
		5745	22.760	5733.800	5756.560	---	PASS
		5785	23.400	5773.320	5796.720	---	PASS
		5825	22.480	5813.880	5836.360	---	PASS
11AC40SISO	Ant1	5190	41.520	5169.760	5211.280	---	PASS
		5230	41.520	5209.440	5250.960	---	PASS
		5270	41.360	5249.360	5290.720	---	PASS
		5310	41.440	5289.520	5330.960	---	PASS
		5510	40.560	5490.080	5530.640	---	PASS
		5550	41.360	5529.440	5570.800	---	PASS
		5670	41.280	5649.600	5690.880	---	PASS
		5755	41.200	5734.680	5775.880	---	PASS
		5795	41.040	5774.680	5815.720	---	PASS
11AC80SISO	Ant1	5210	84.160	5167.920	5252.080	---	PASS
		5290	83.360	5248.880	5332.240	---	PASS
		5530	84.000	5488.400	5572.400	---	PASS
		5610	84.640	5567.600	5652.240	---	PASS
		5775	84.160	5733.240	5817.400	---	PASS

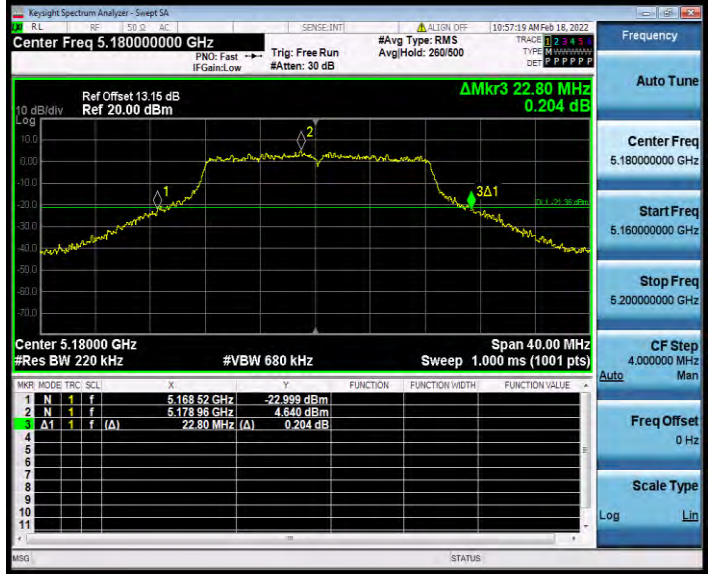


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### TEST GRAPHS

11A\_Ant1\_5180



11A\_Ant1\_5200

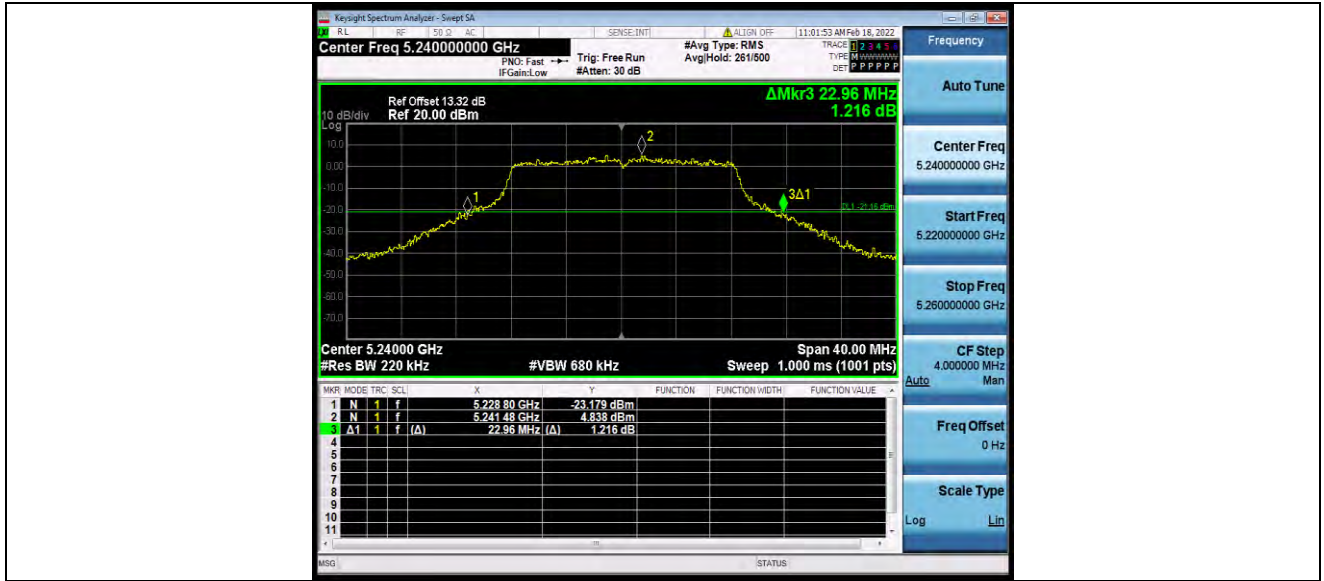


11A\_Ant1\_5240

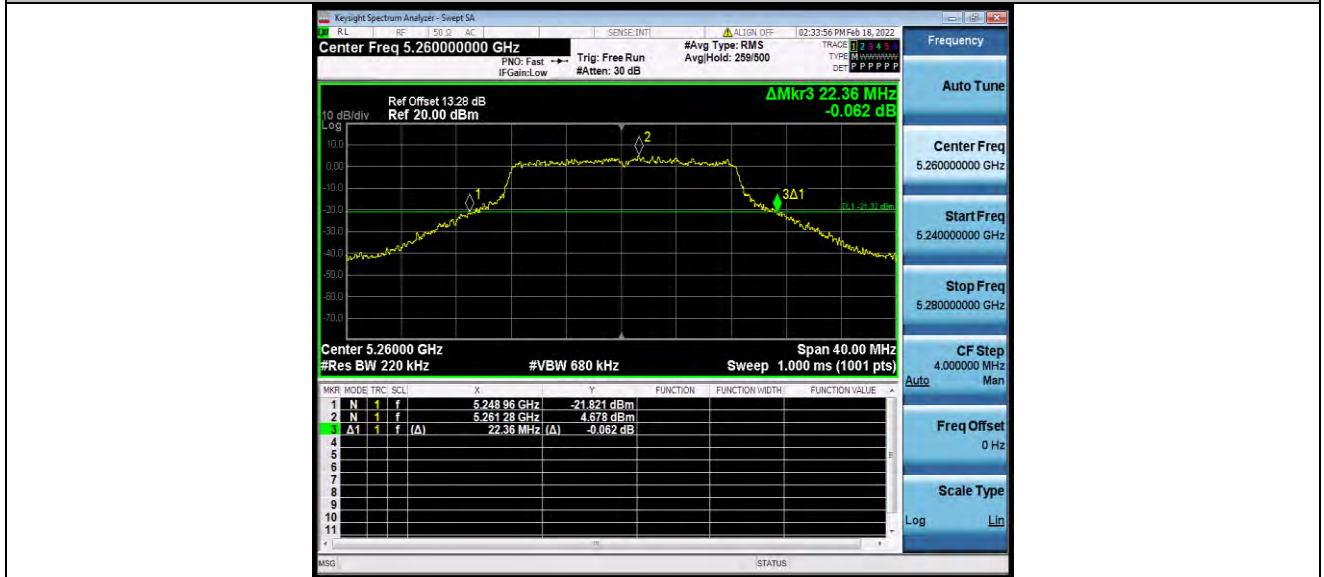


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11A\_Ant1\_5260

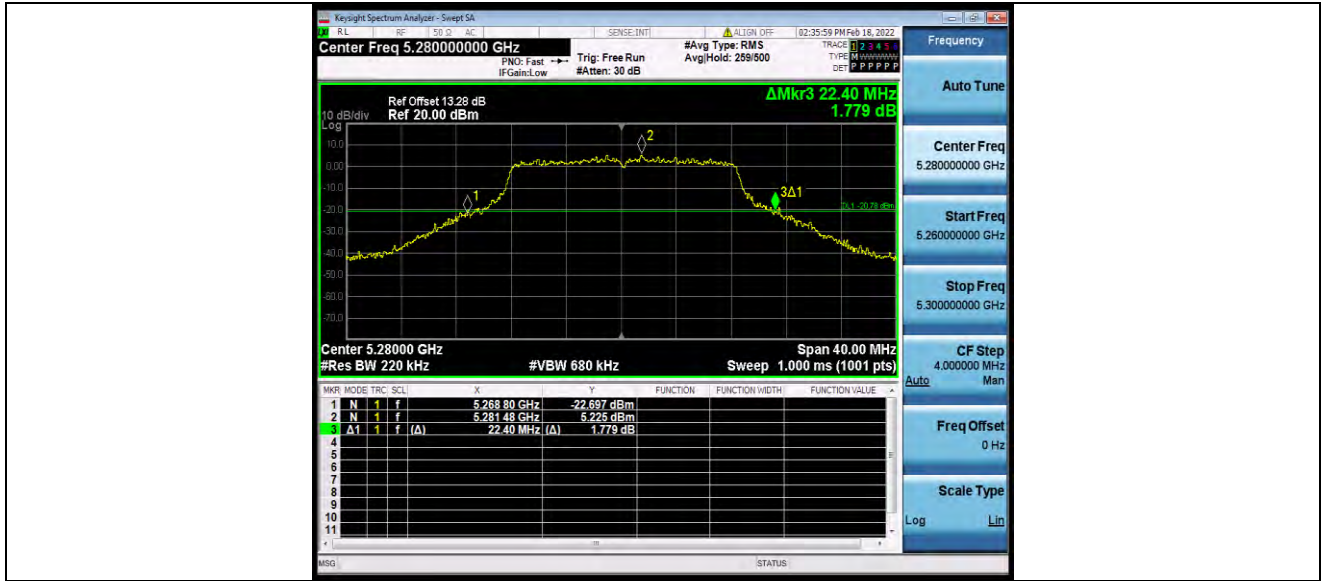


11A\_Ant1\_5280

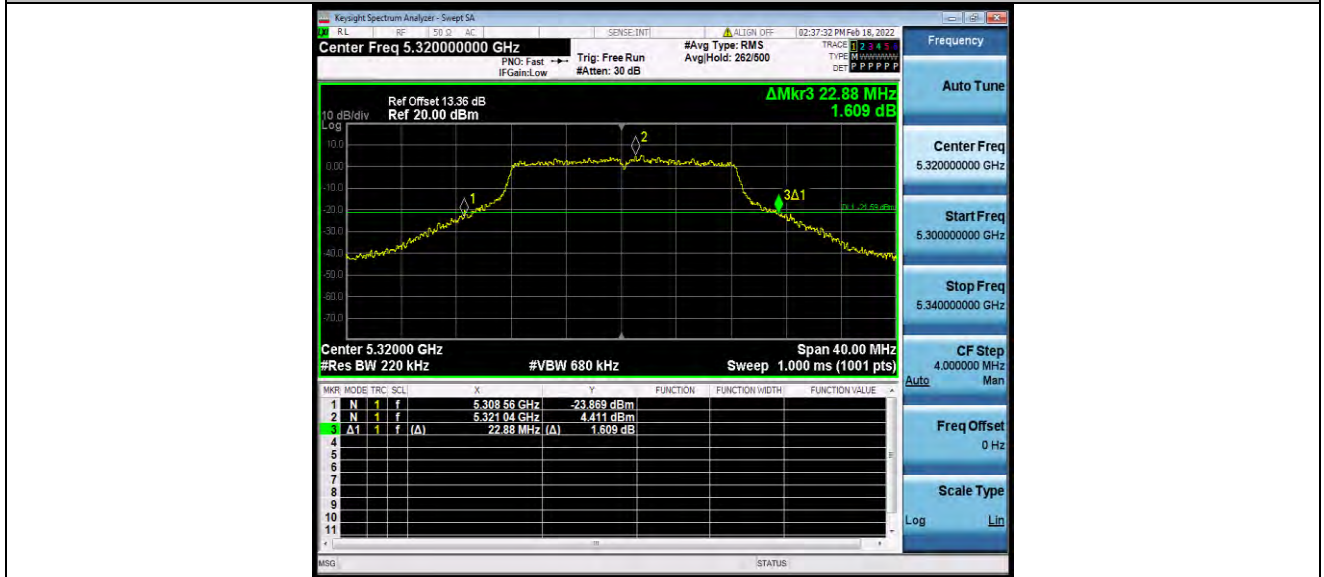


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11A\_Ant1\_5320



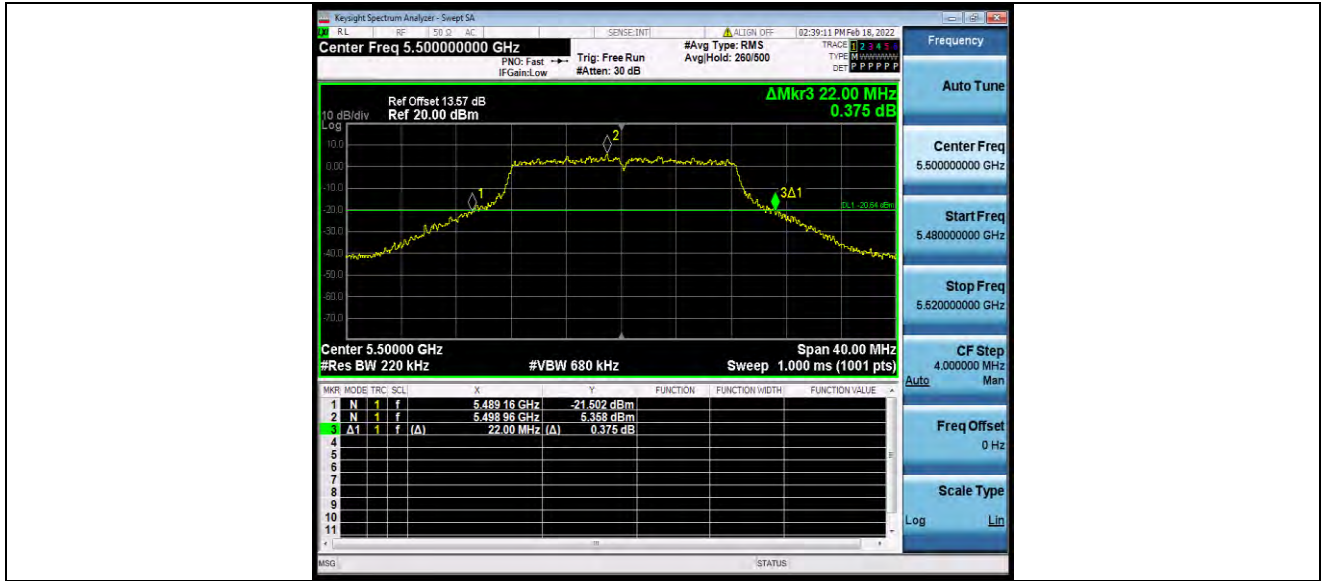
11A\_Ant1\_5500





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11A\_Ant1\_5580



11A\_Ant1\_5700

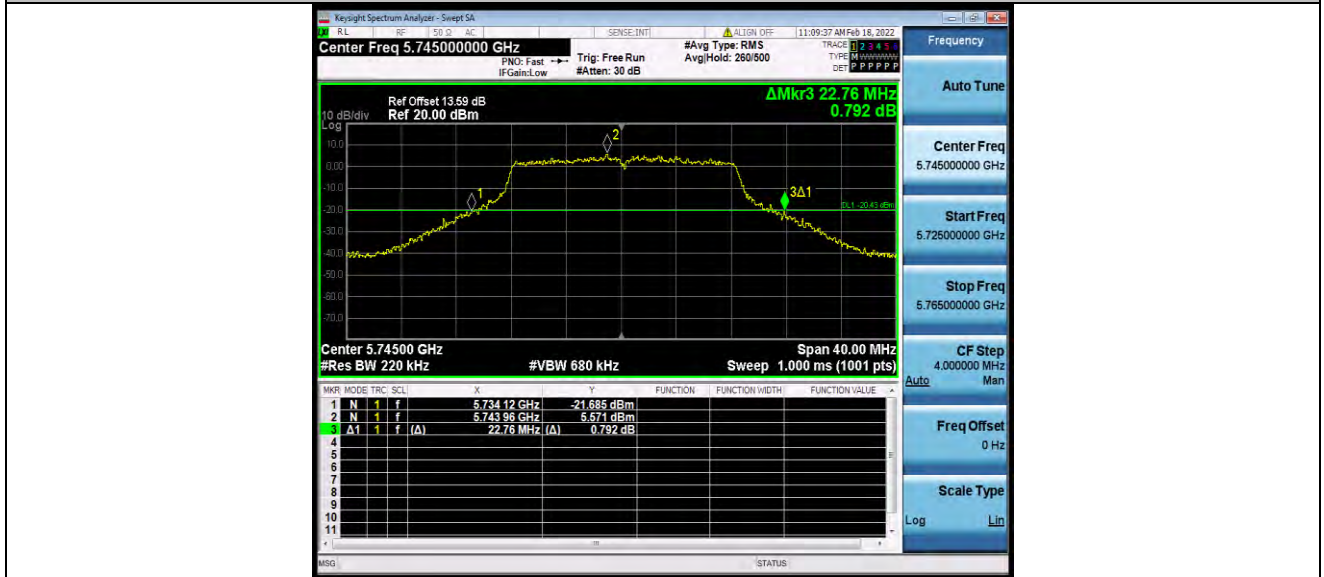


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11A\_Ant1\_5745

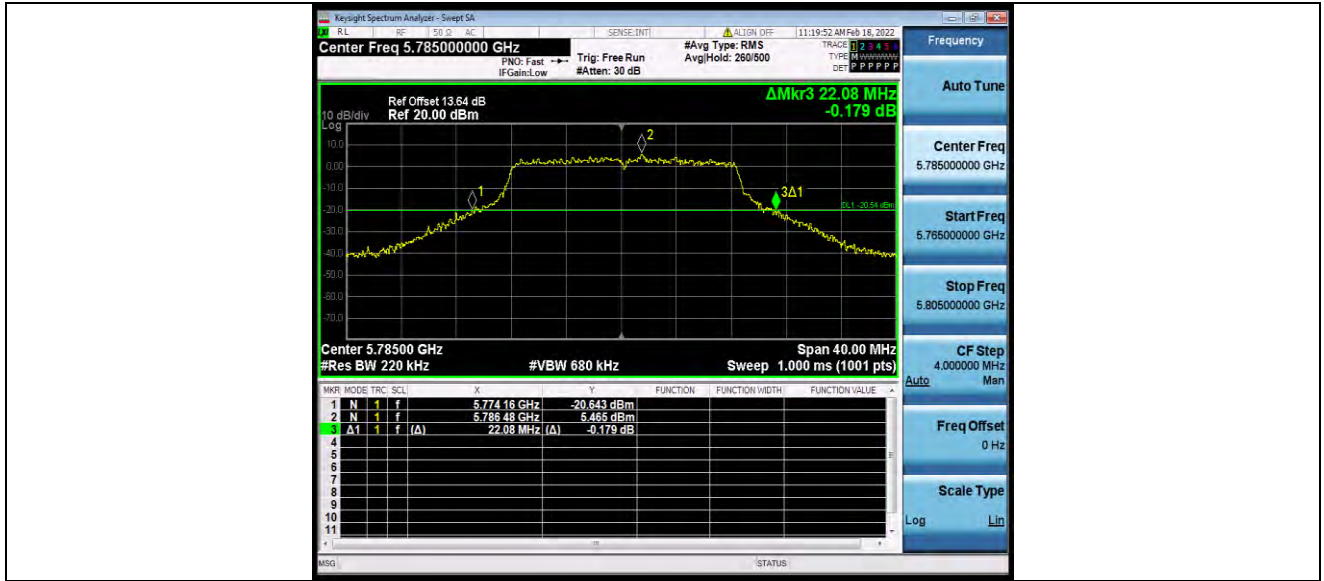


11A\_Ant1\_5785



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11A\_Ant1\_5825



11N20SISO\_Ant1\_5180



BUREAU VERITAS

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11N20SISO\_Ant1\_5200



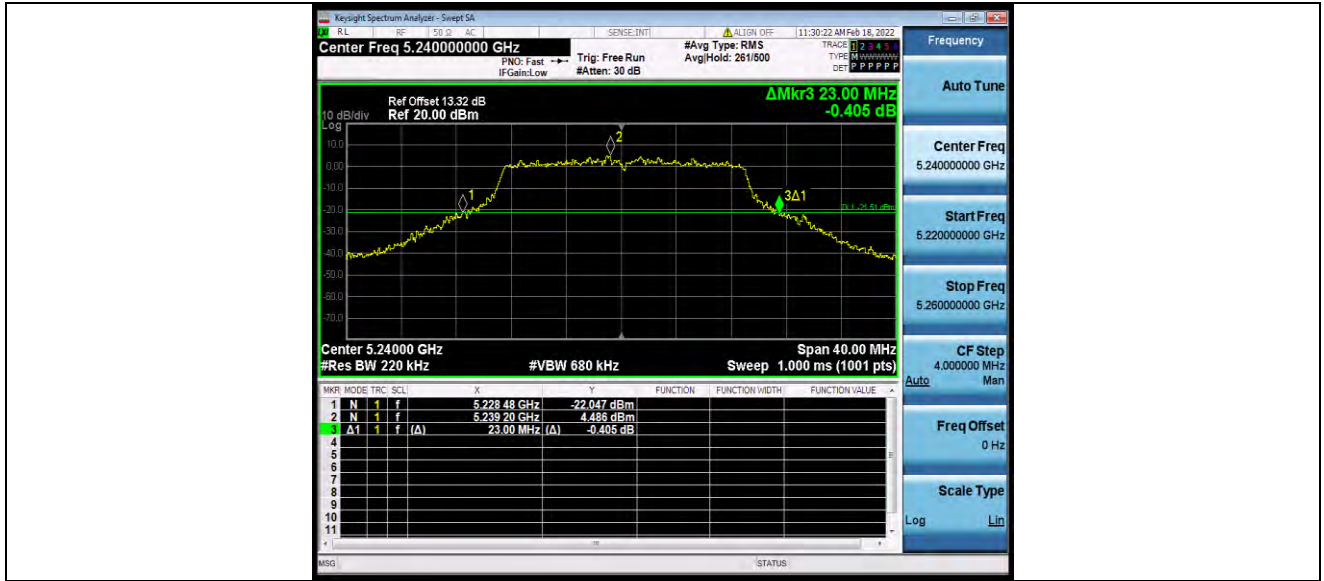
11N20SISO\_Ant1\_5240



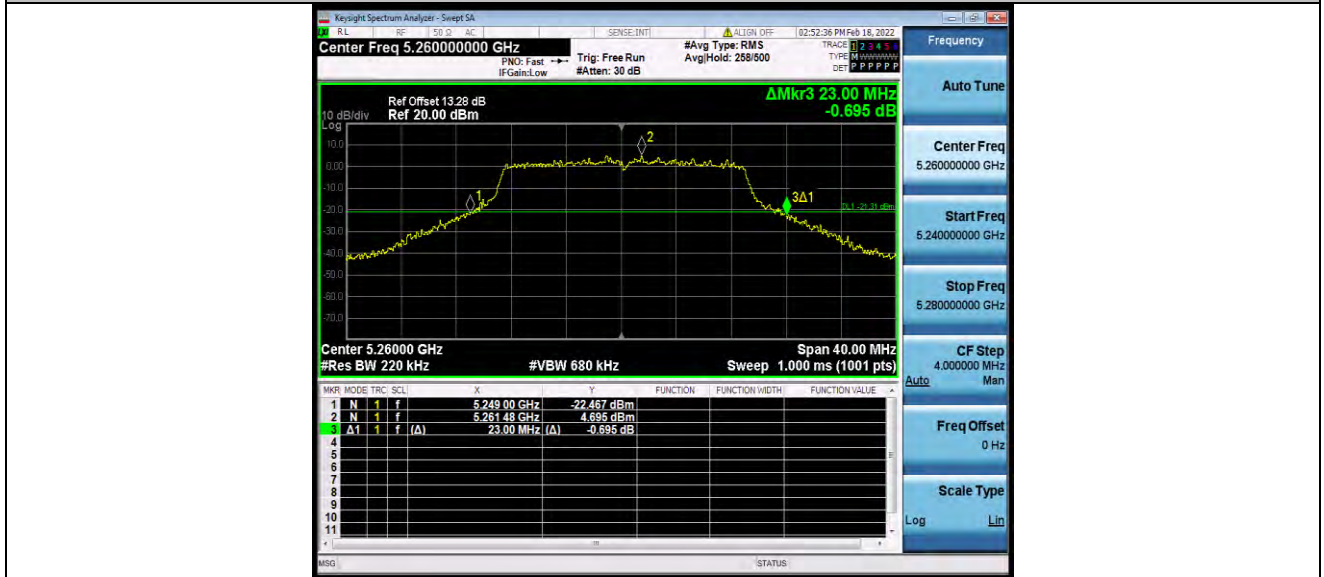


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11N20SISO\_Ant1\_5260



11N20SISO\_Ant1\_5280

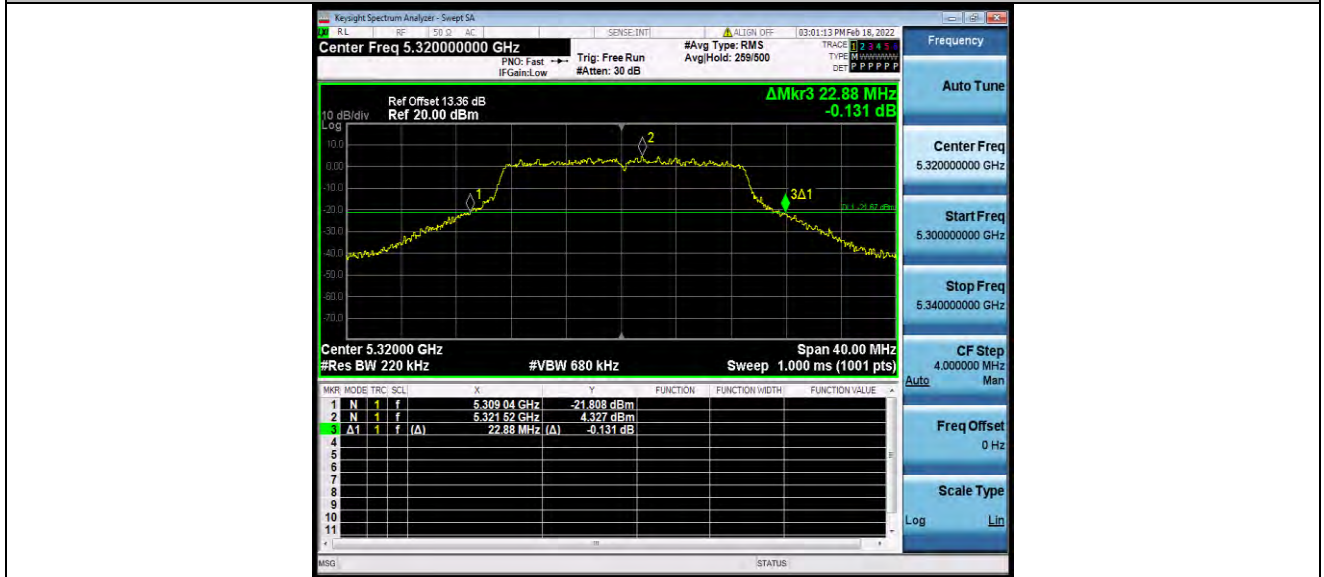


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N20SISO\_Ant1\_5320

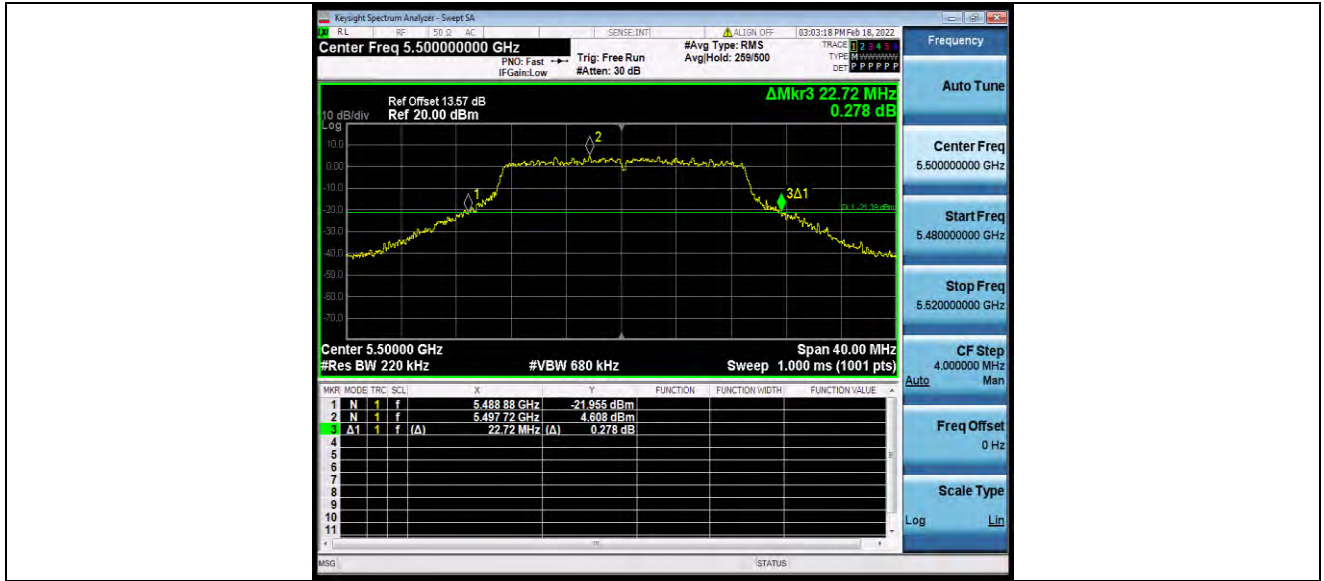


11N20SISO\_Ant1\_5500



BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N20SISO\_Ant1\_5580

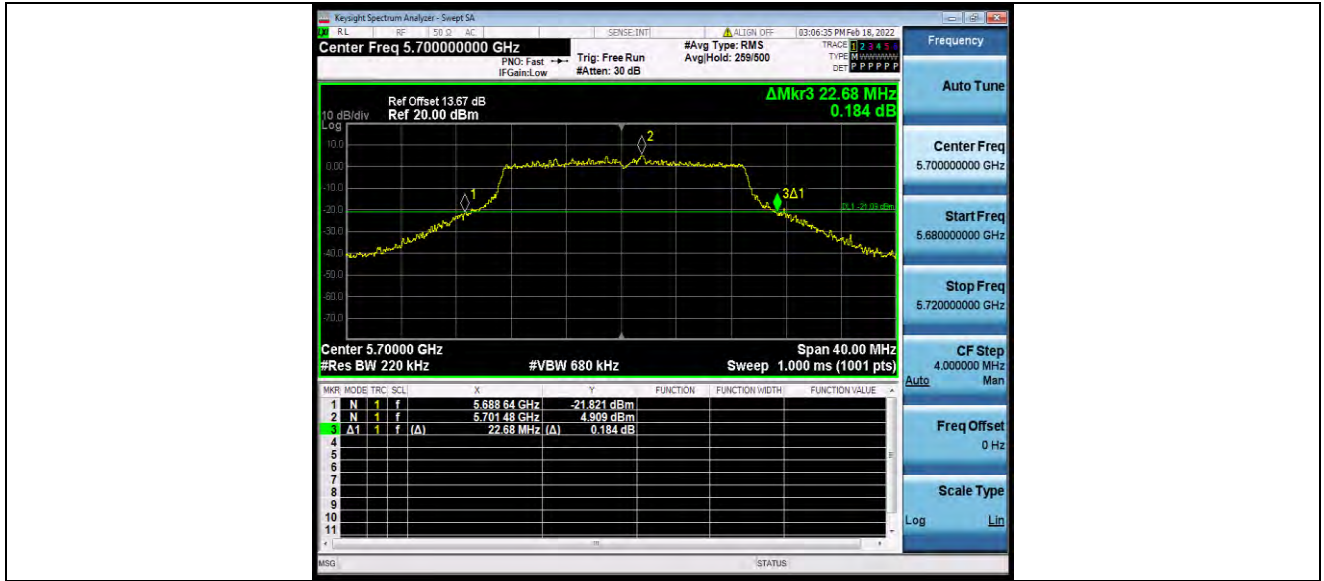


11N20SISO\_Ant1\_5700

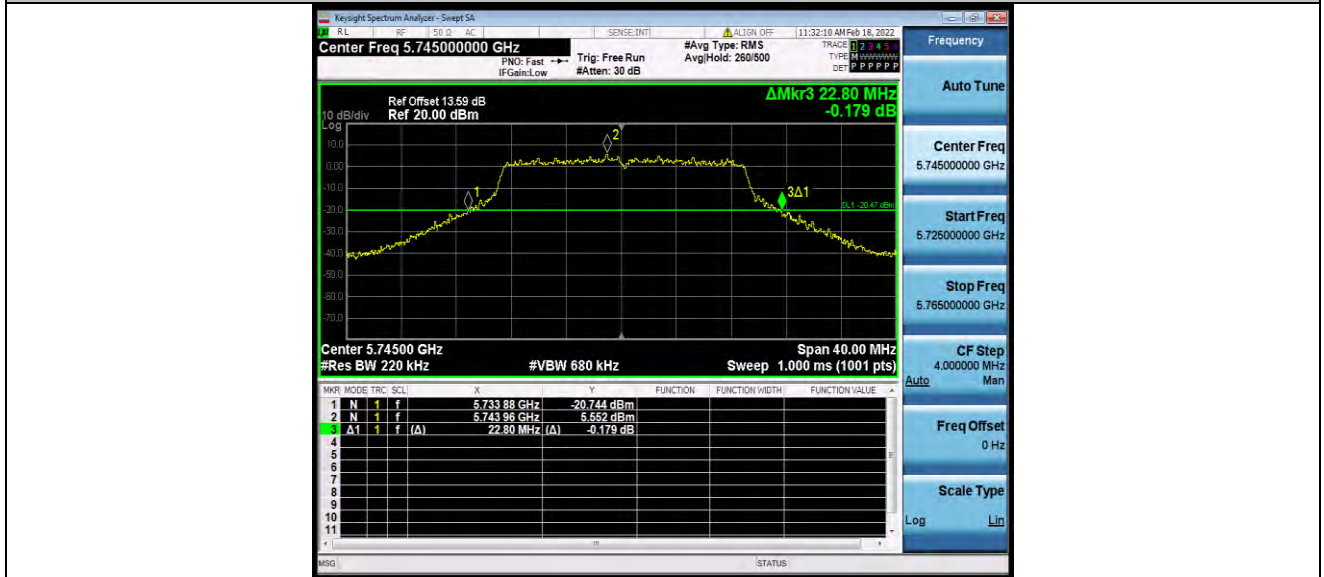


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N20SISO\_Ant1\_5745



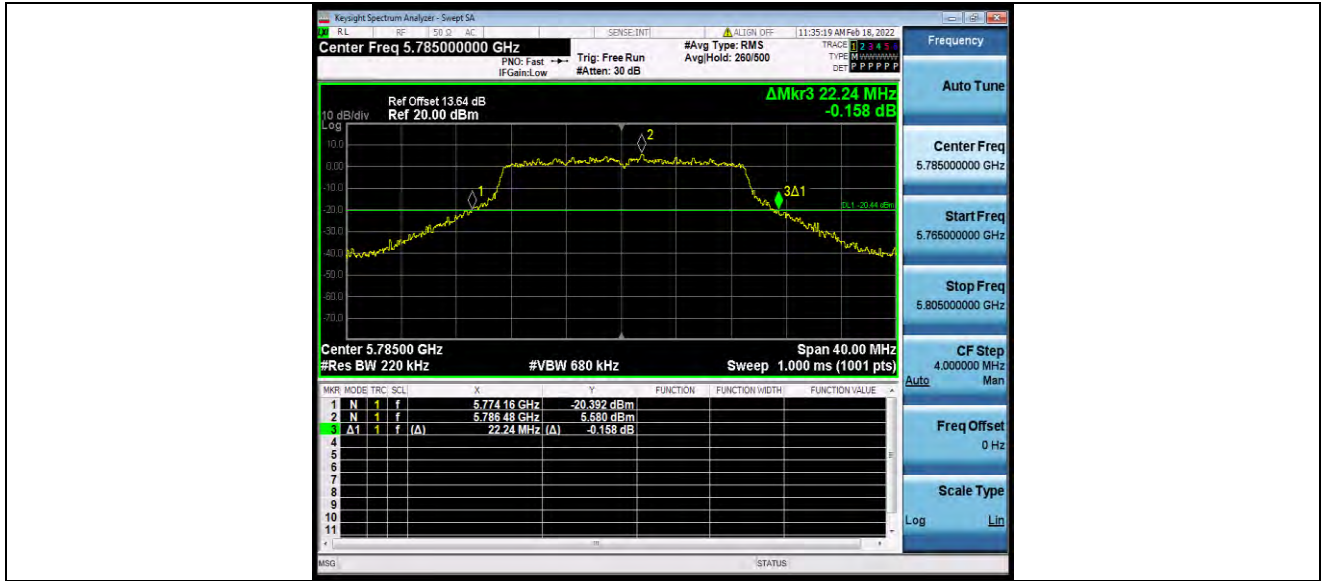
11N20SISO\_Ant1\_5785



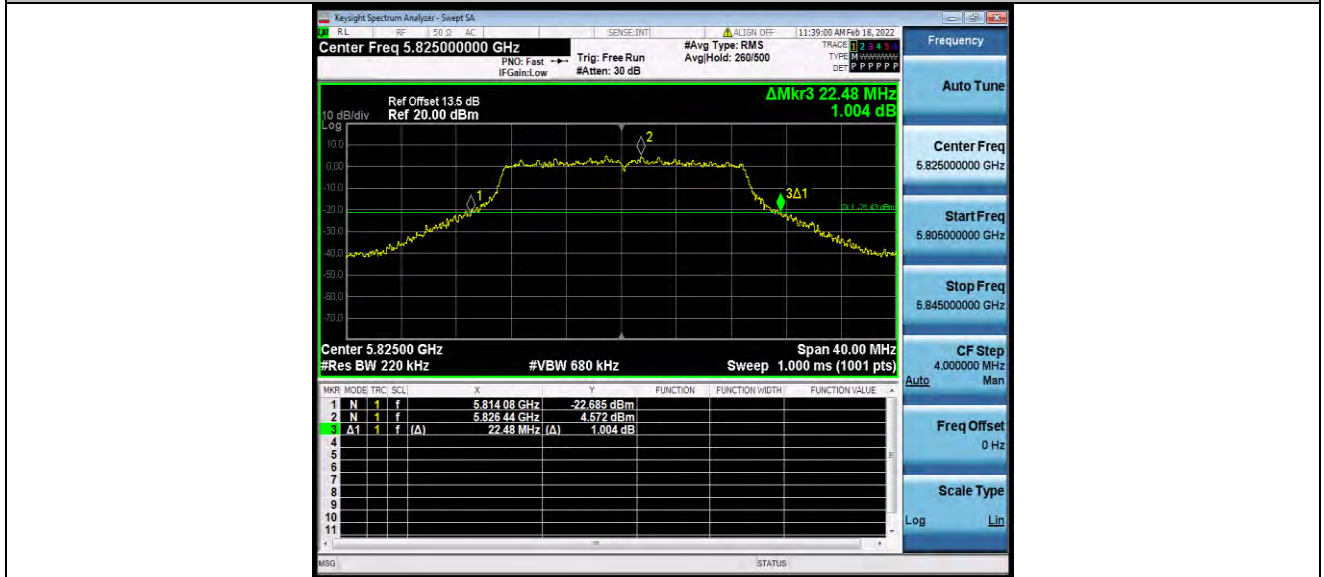


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N20SISO\_Ant1\_5825

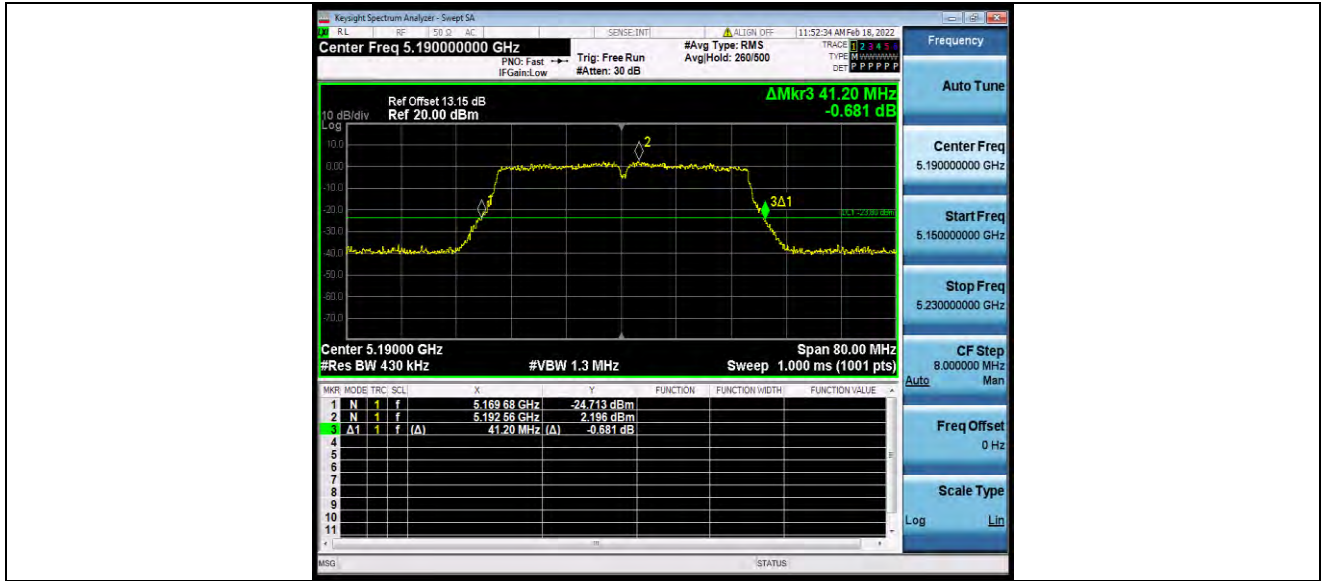


11N40SISO\_Ant1\_5190

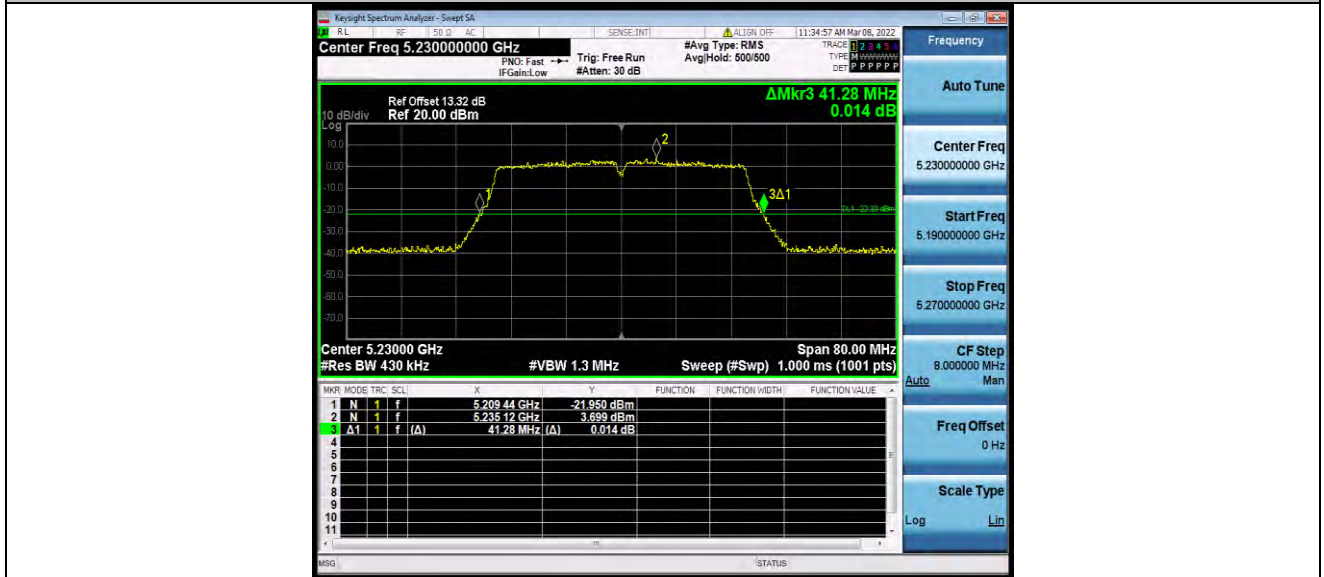


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N40SISO\_Ant1\_5230

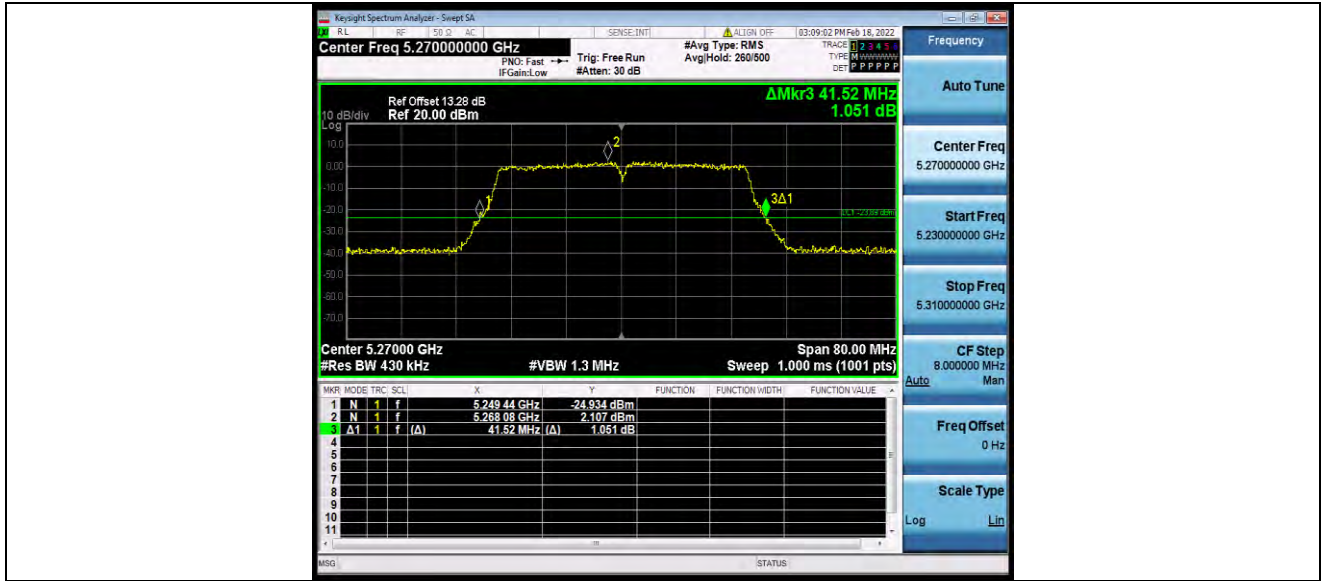


11N40SISO\_Ant1\_5270

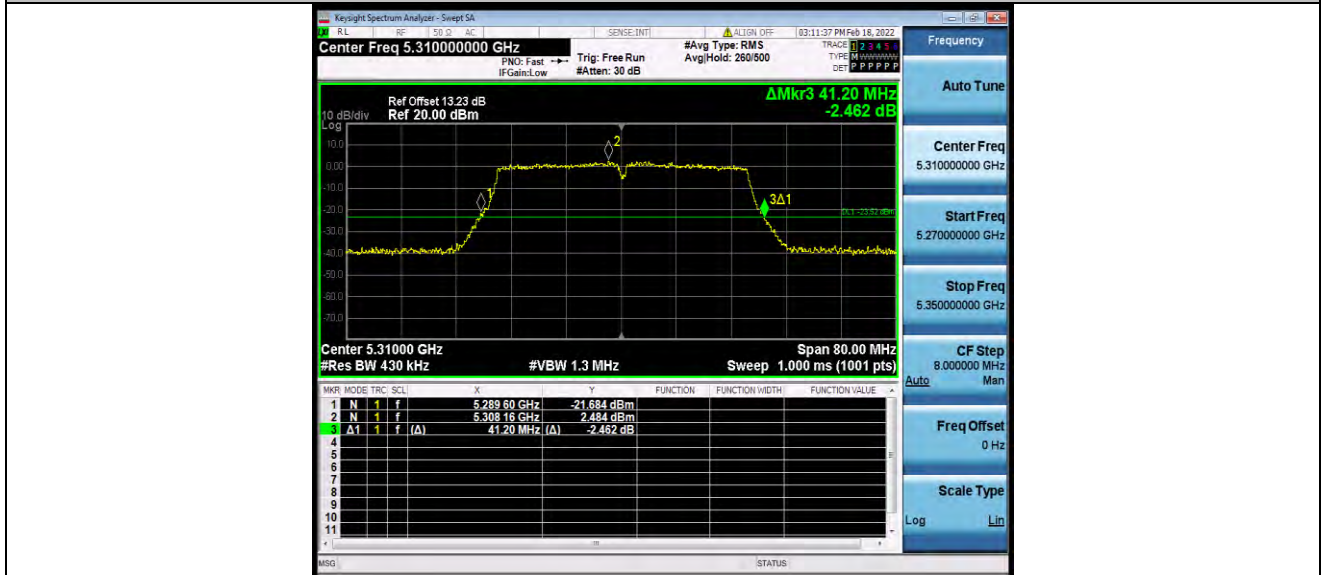


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N40SISO\_Ant1\_5310

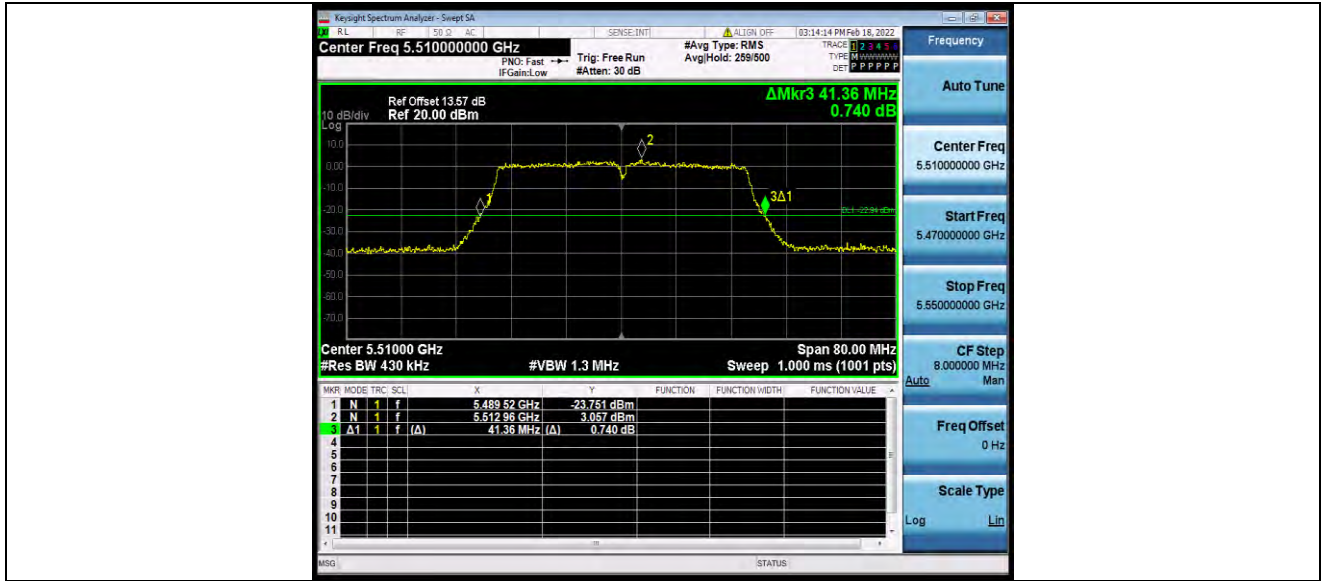


11N40SISO\_Ant1\_5510



BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N40SISO\_Ant1\_5550



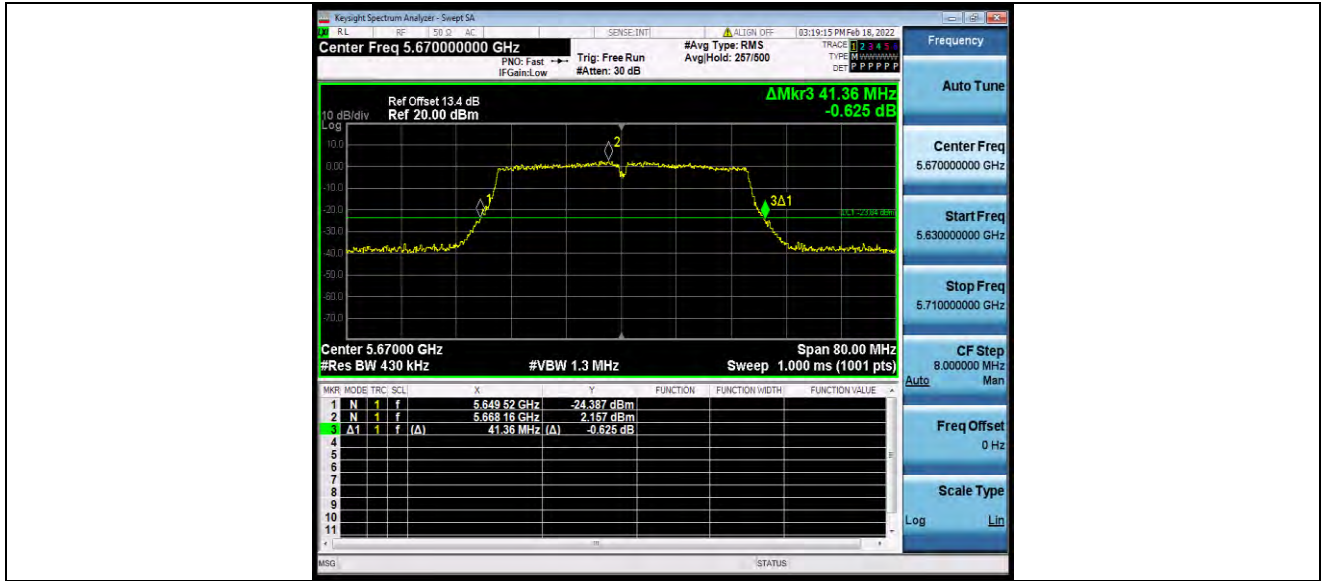
11N40SISO\_Ant1\_5670





BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N40SISO\_Ant1\_5755

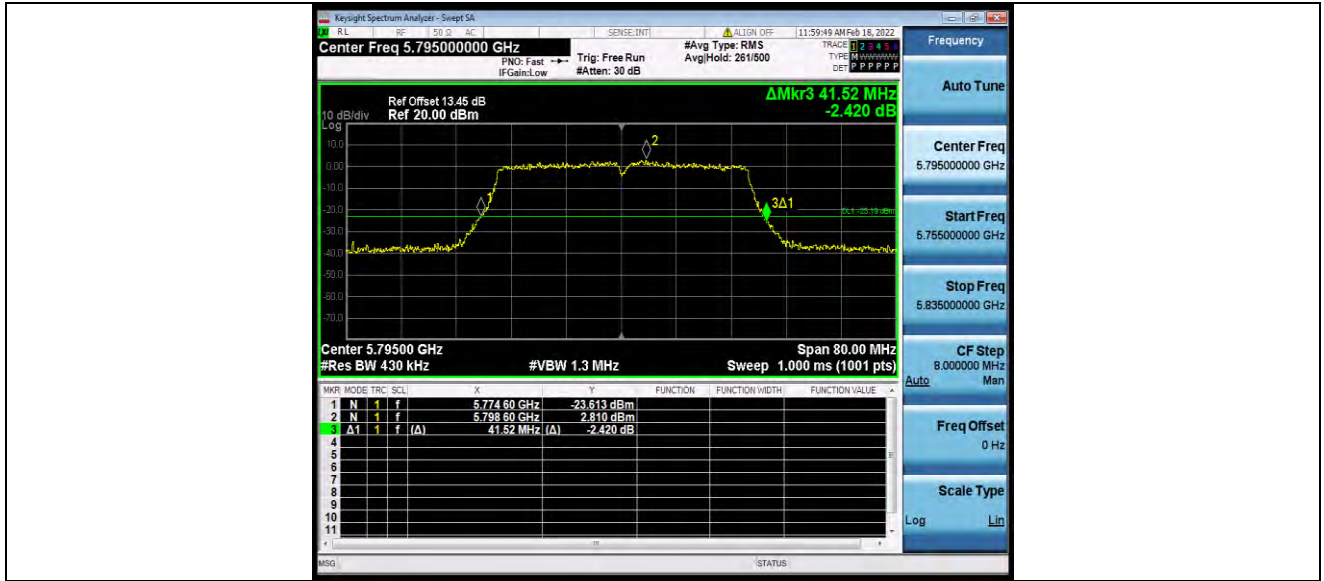


11N40SISO\_Ant1\_5795

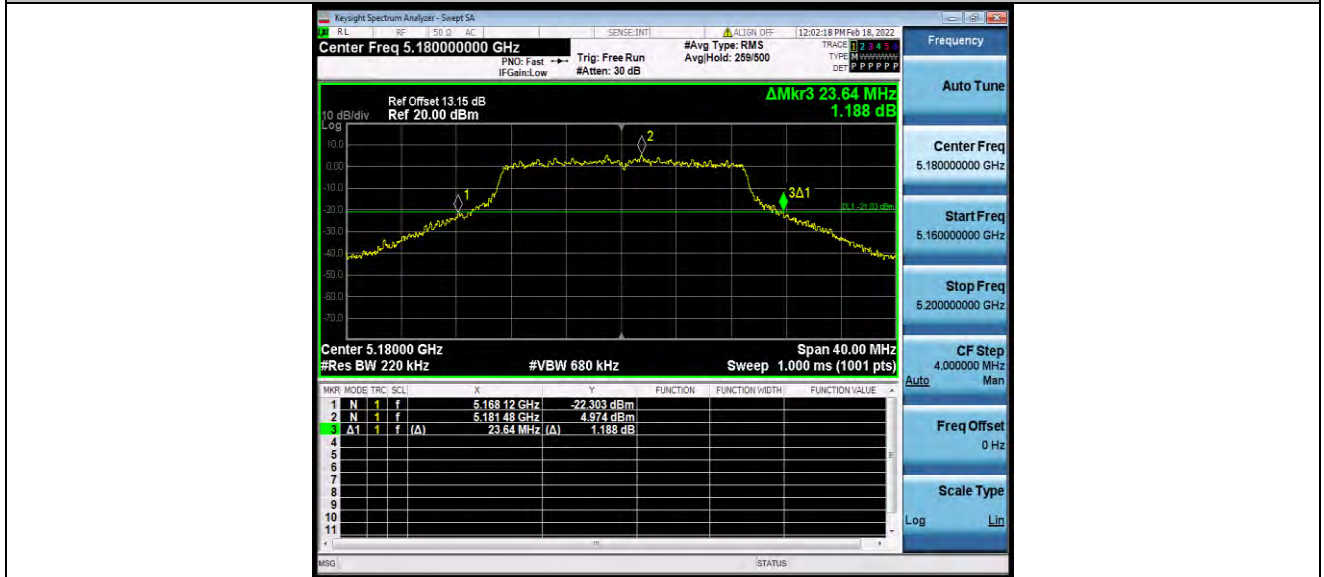


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200



BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC20SISO\_Ant1\_5240

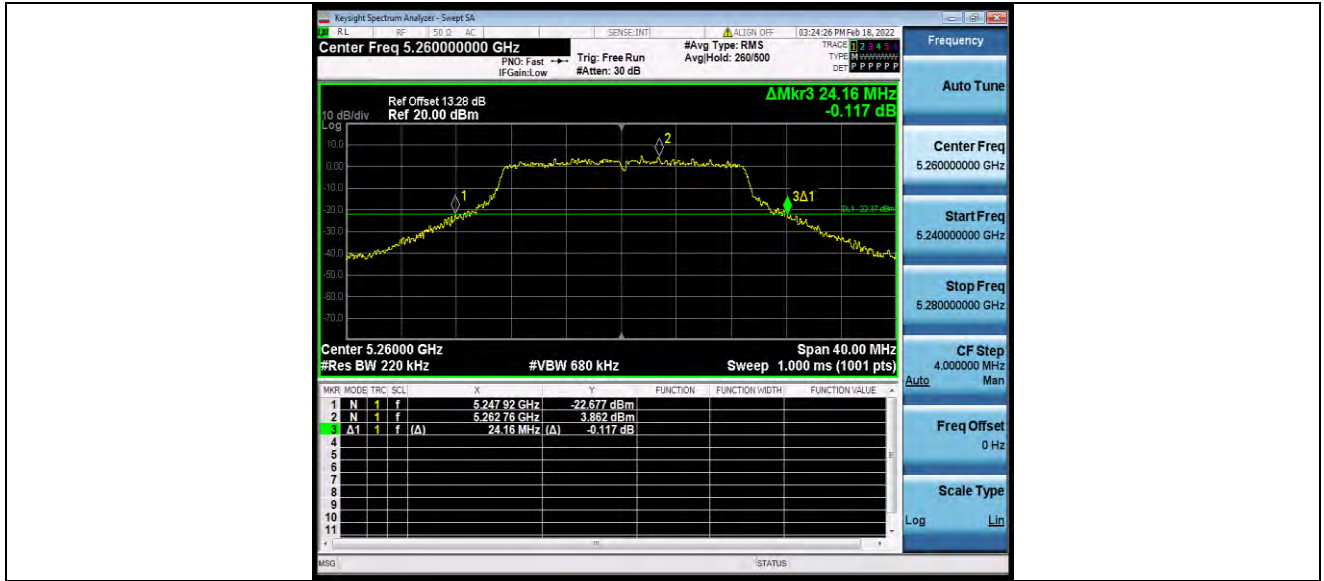


11AC20SISO\_Ant1\_5260



BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC20SISO\_Ant1\_5280



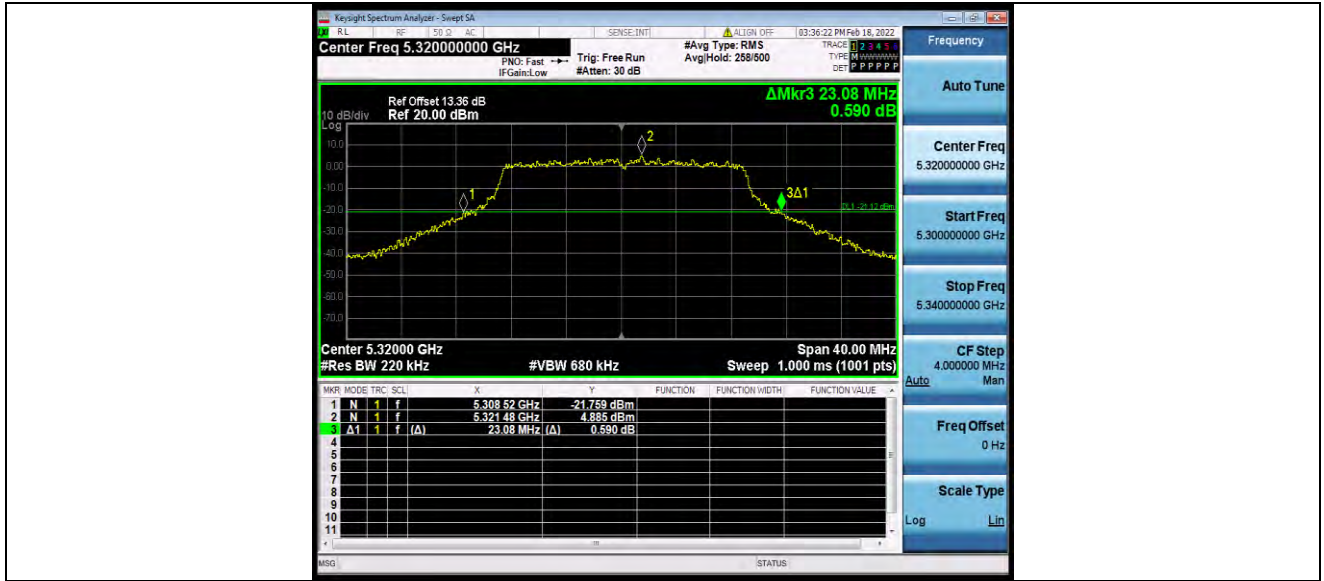
11AC20SISO\_Ant1\_5320



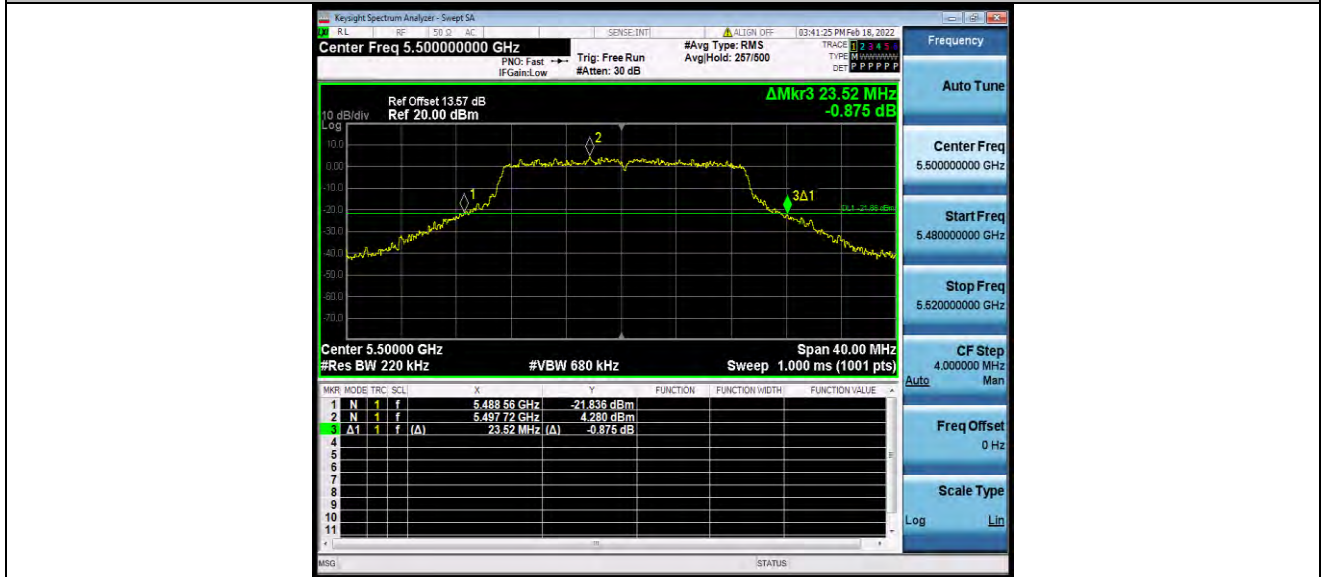


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC20SISO\_Ant1\_5500

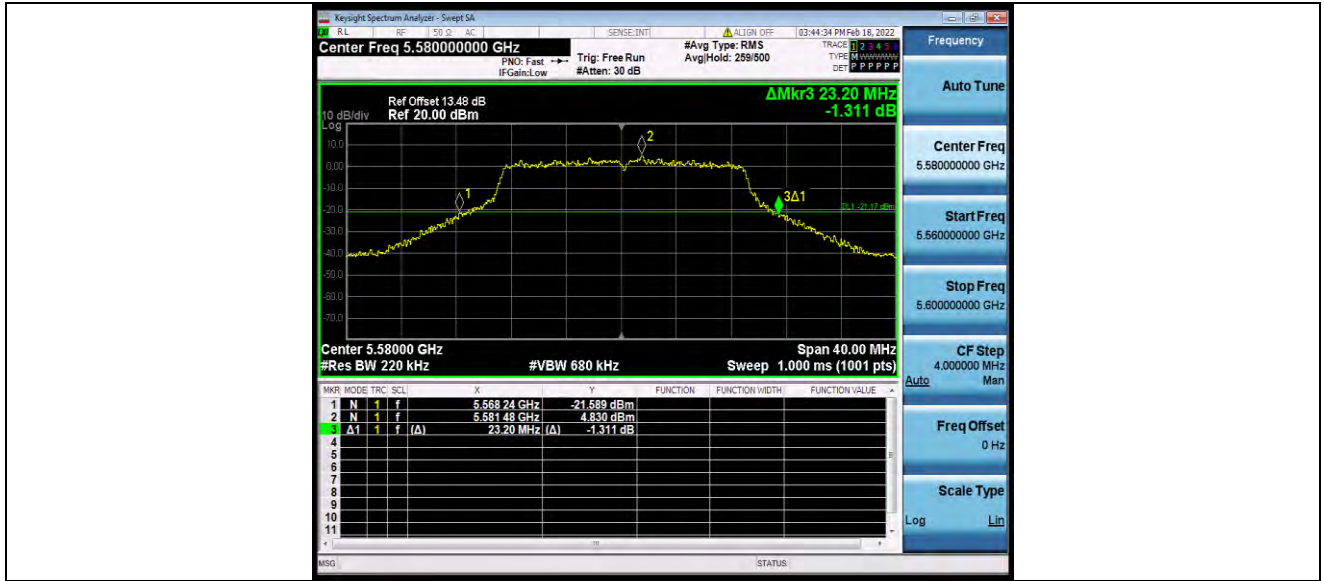


11AC20SISO\_Ant1\_5580



BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC20SISO\_Ant1\_5700

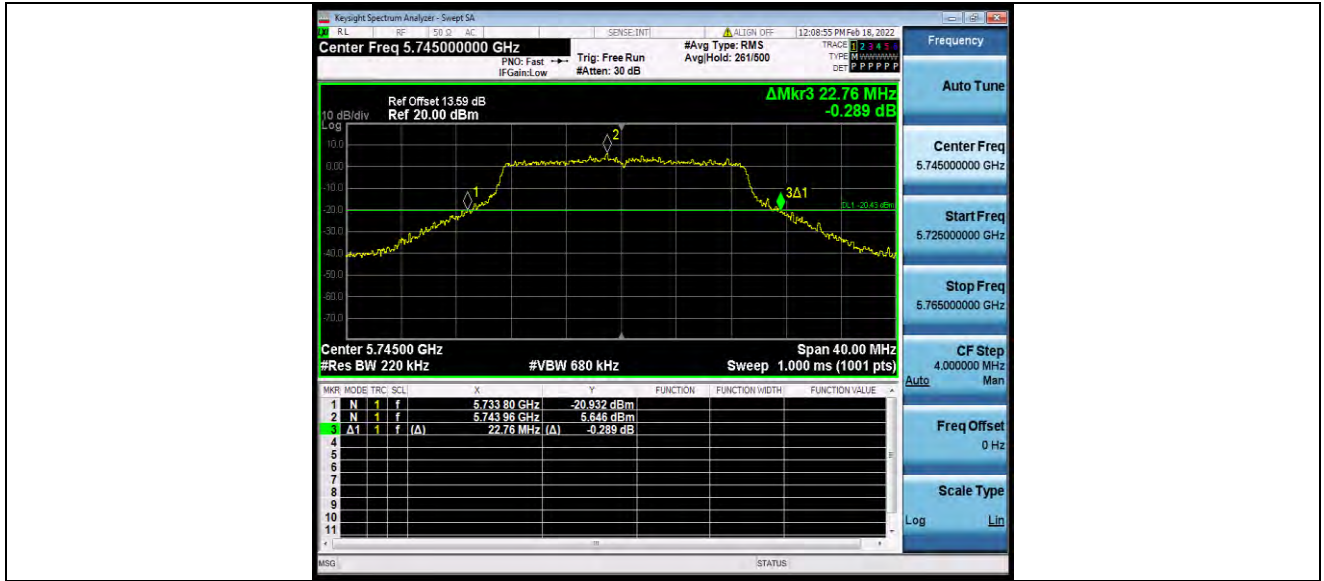


11AC20SISO\_Ant1\_5745

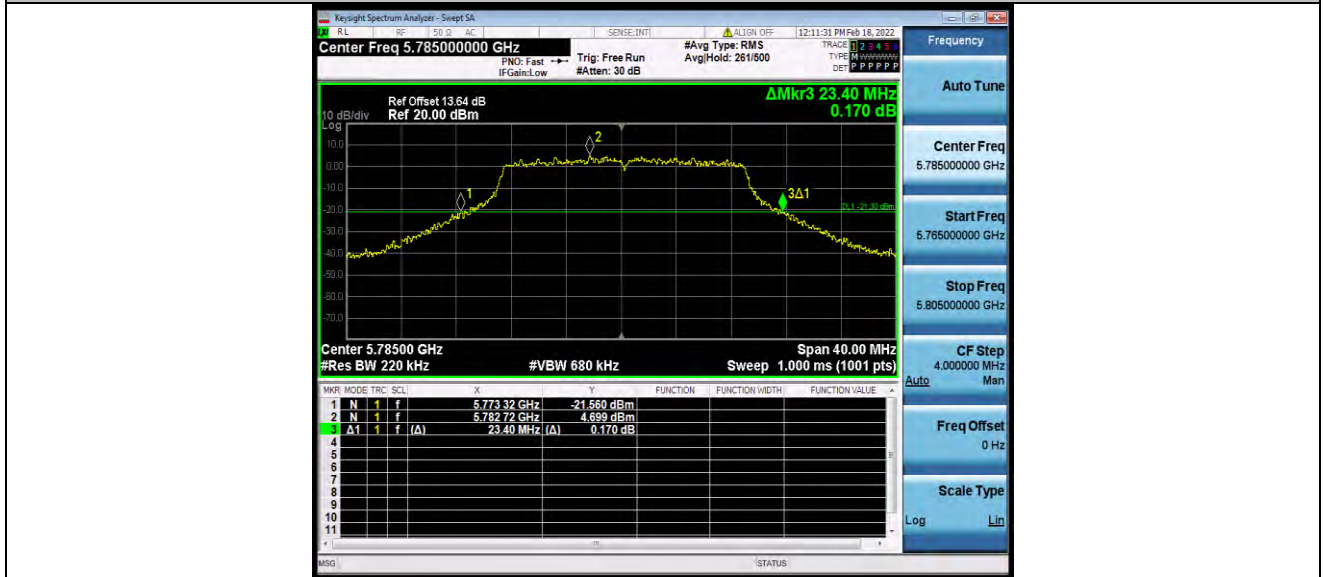


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11AC20SISO\_Ant1\_5785

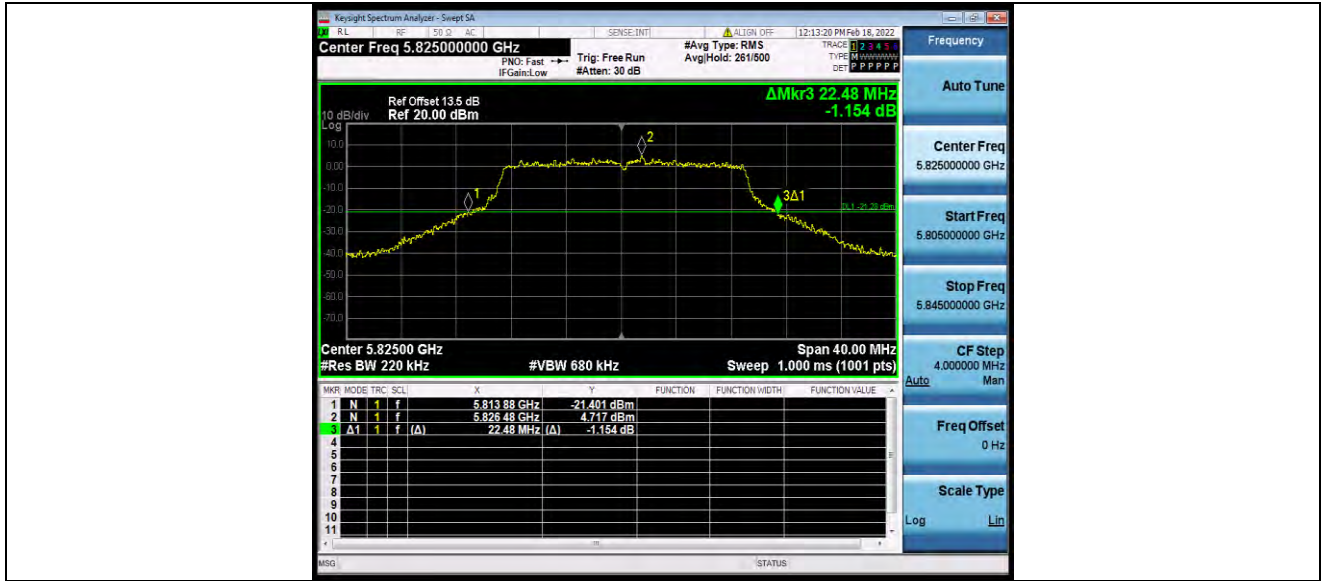


11AC20SISO\_Ant1\_5825

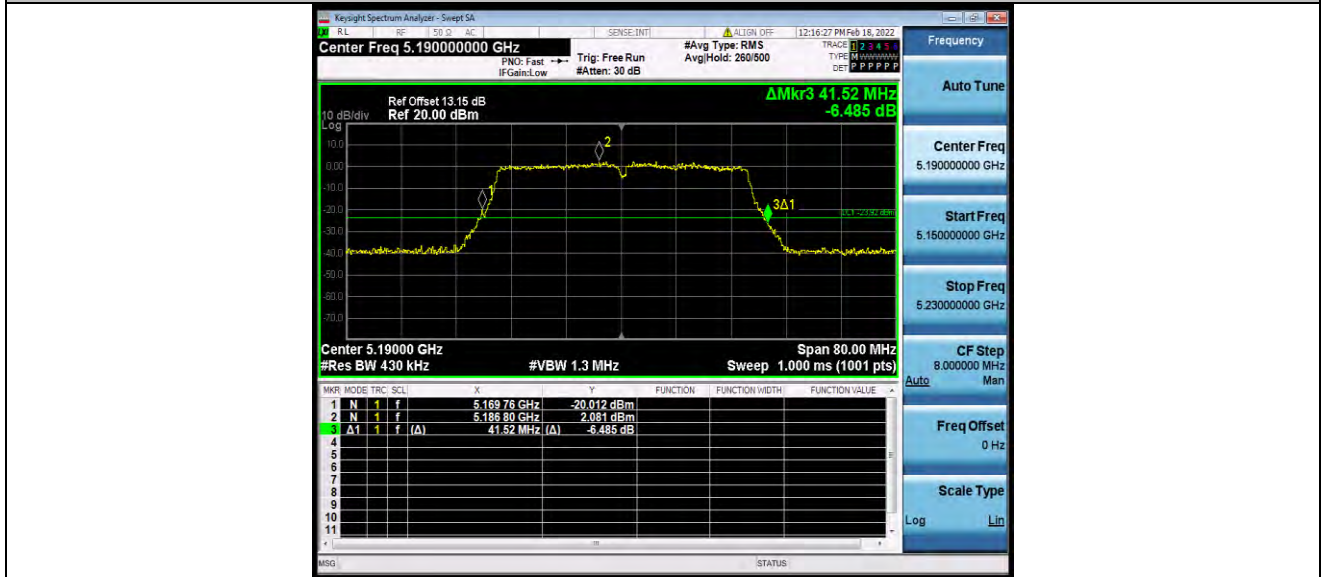


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC40SISO\_Ant1\_5190



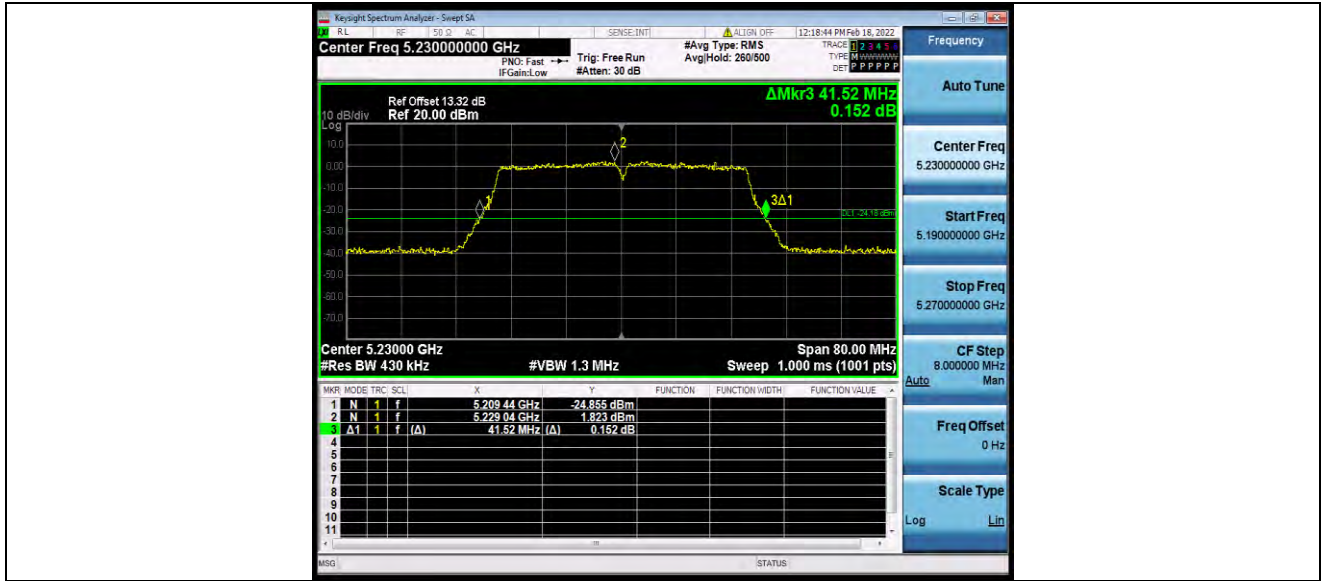
11AC40SISO\_Ant1\_5230





BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC40SISO\_Ant1\_5270

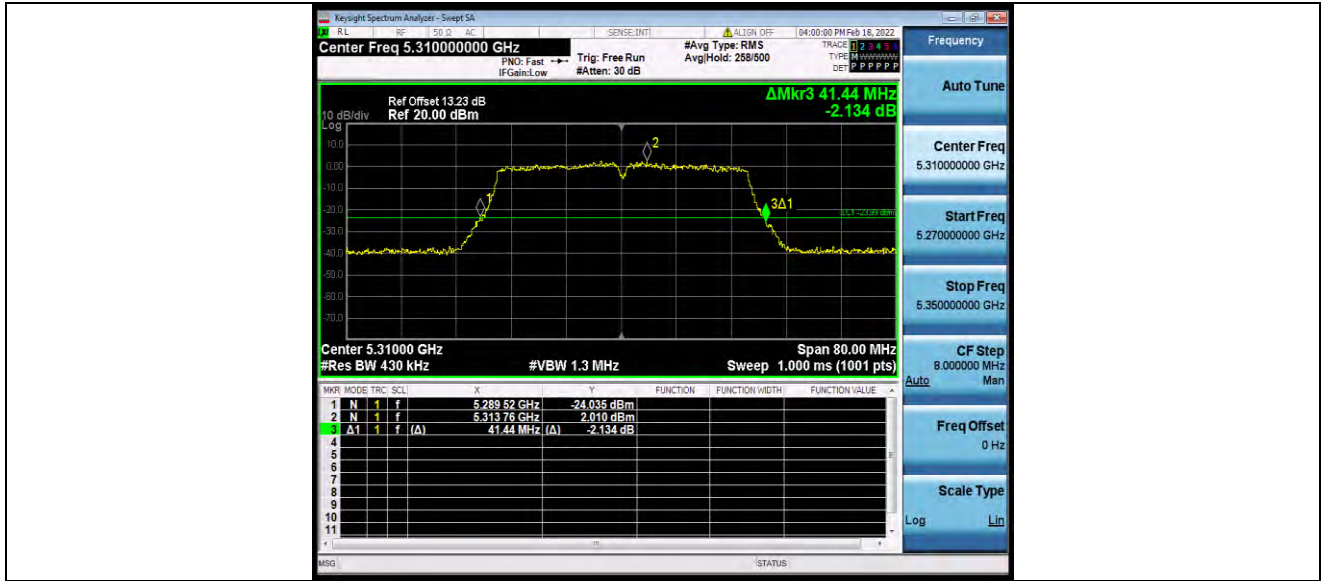


11AC40SISO\_Ant1\_5310

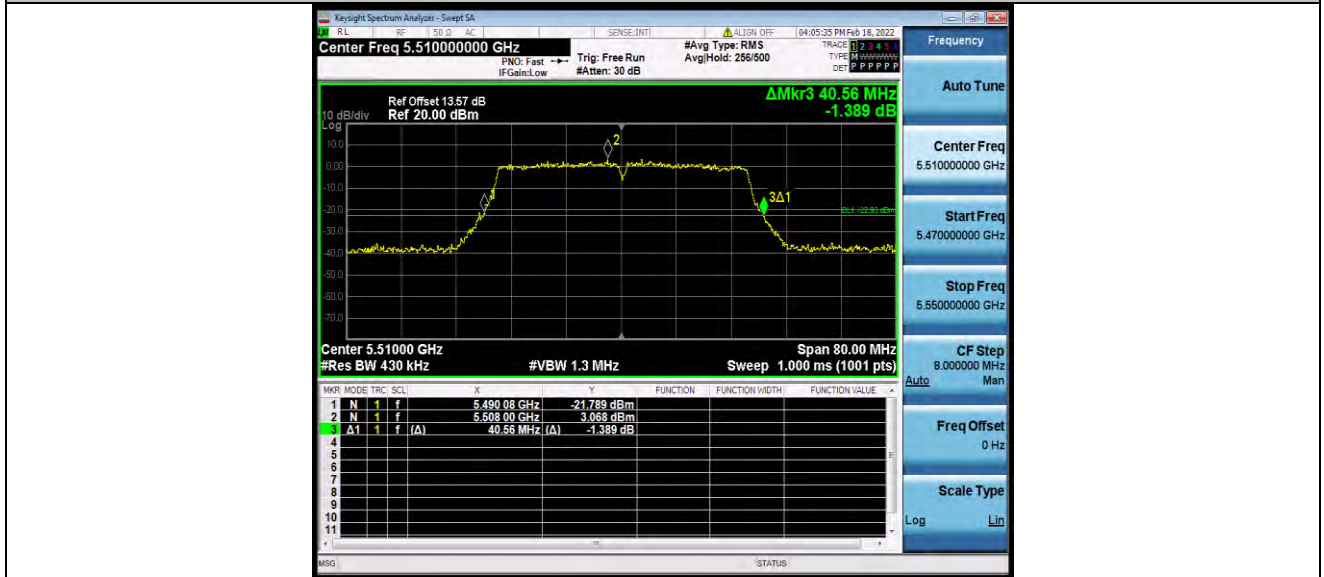


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC40SISO\_Ant1\_5510

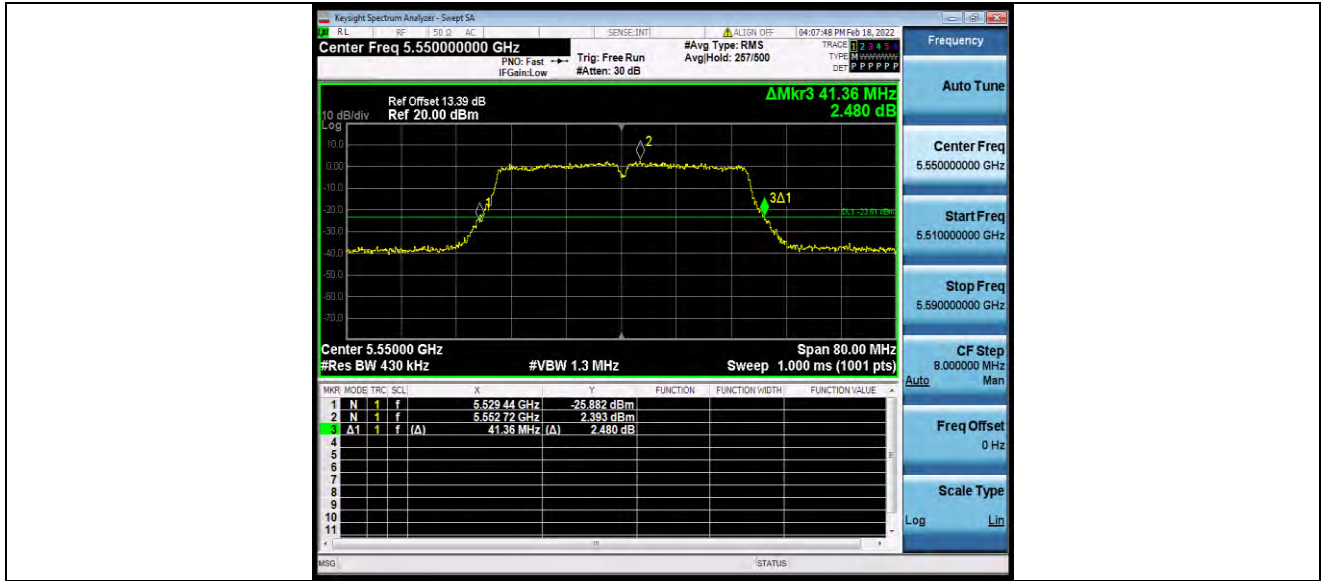


11AC40SISO\_Ant1\_5550

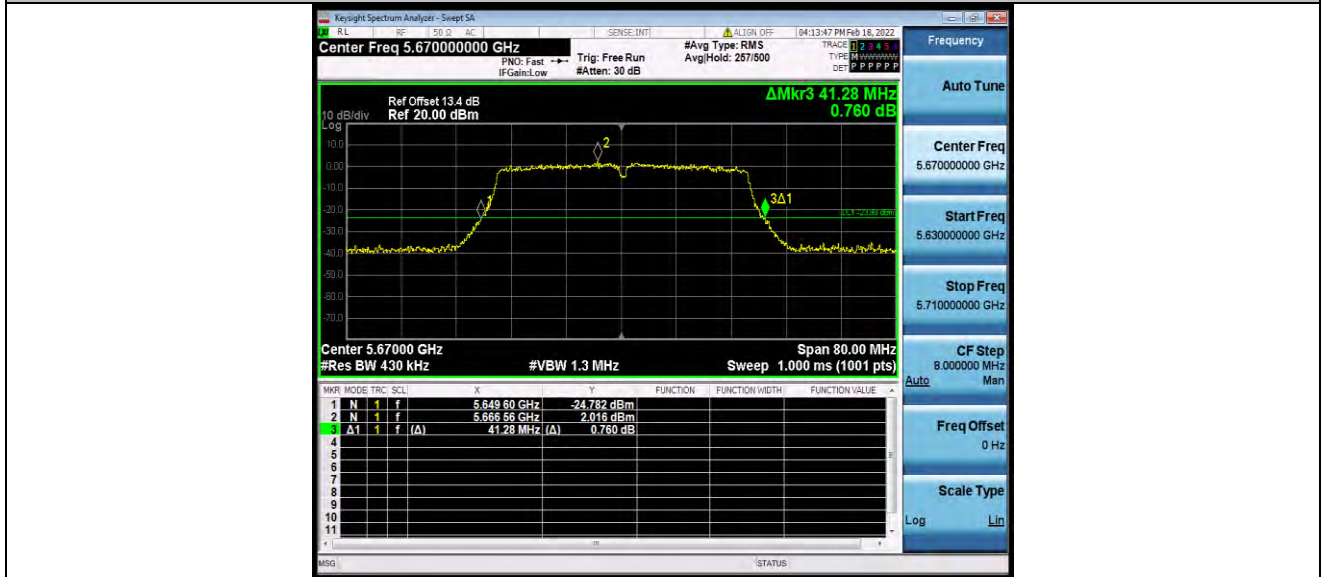


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC40SISO\_Ant1\_5670

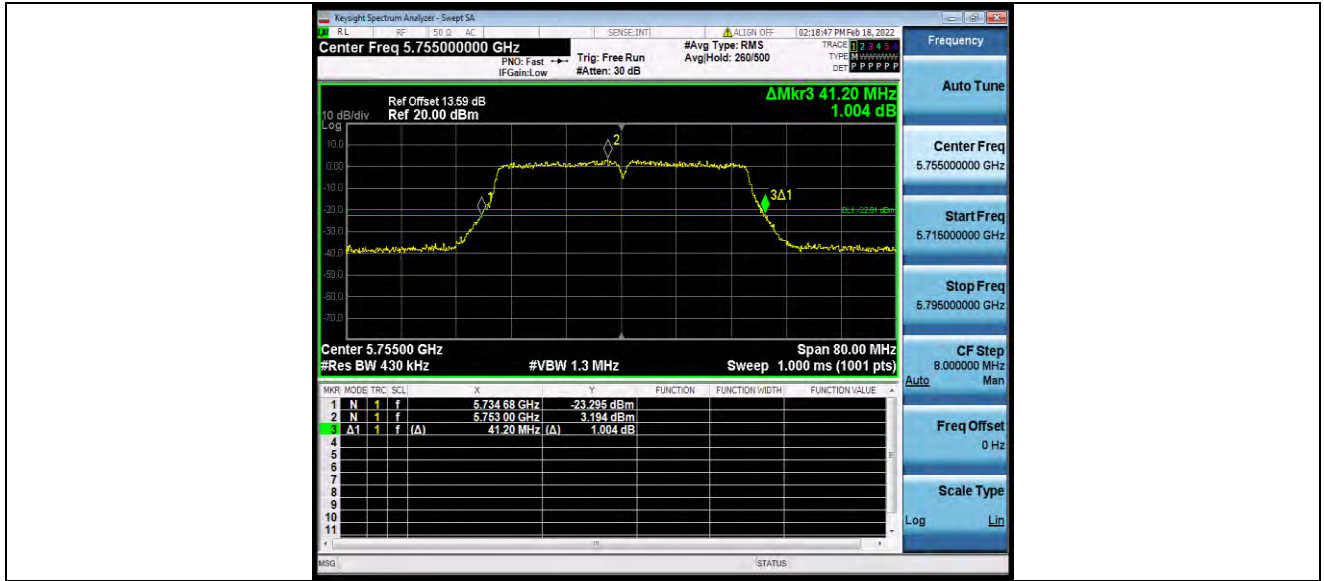


11AC40SISO\_Ant1\_5755



BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC40SISO\_Ant1\_5795



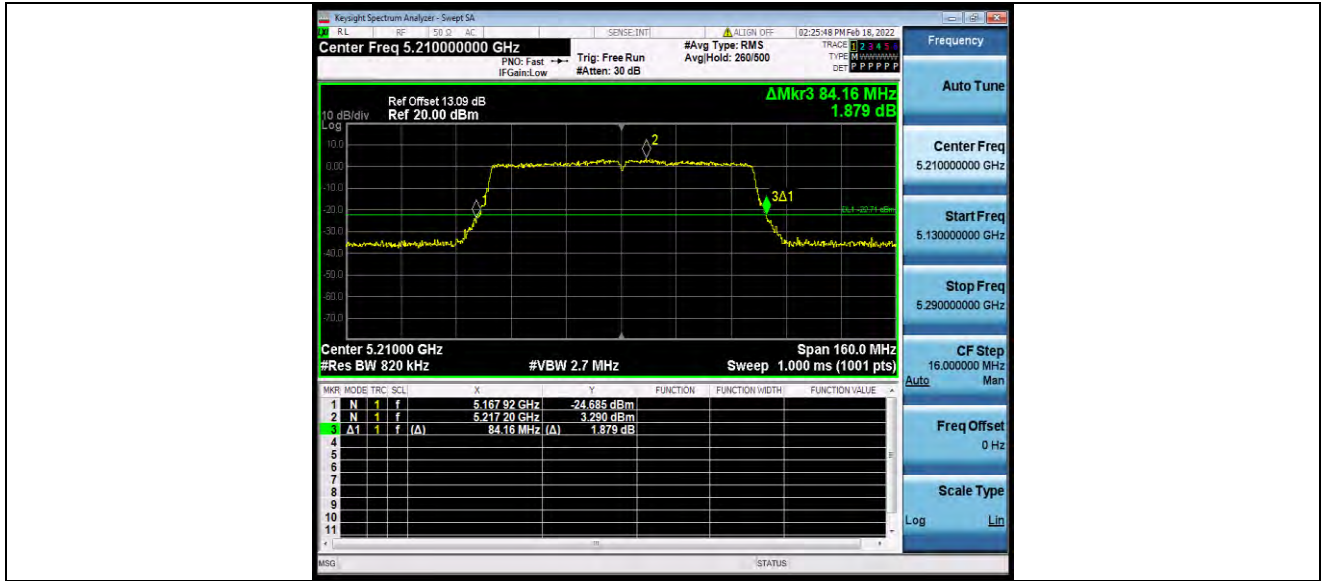
11AC80SISO\_Ant1\_5210



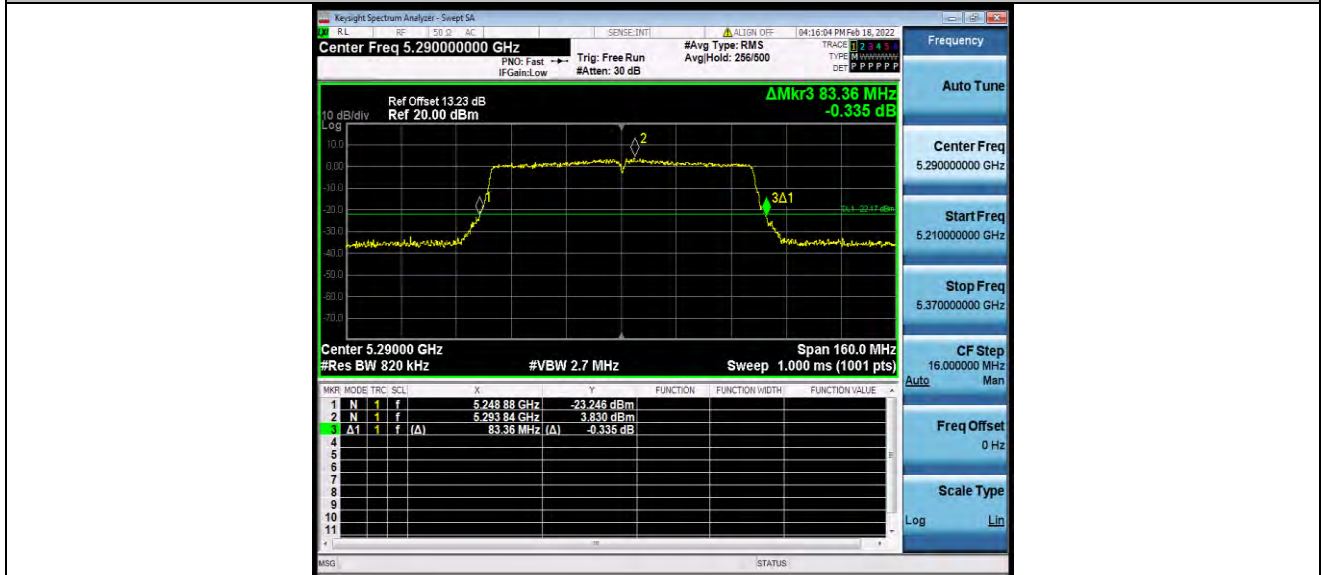


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC80SISO\_Ant1\_5290

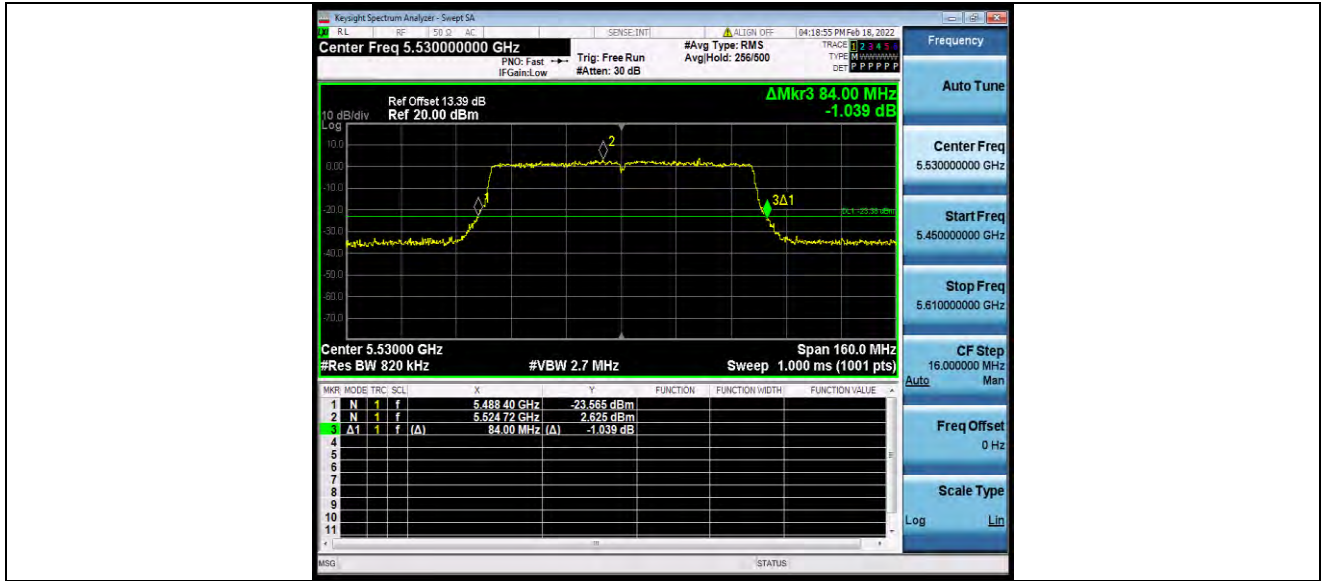


11AC80SISO\_Ant1\_5530

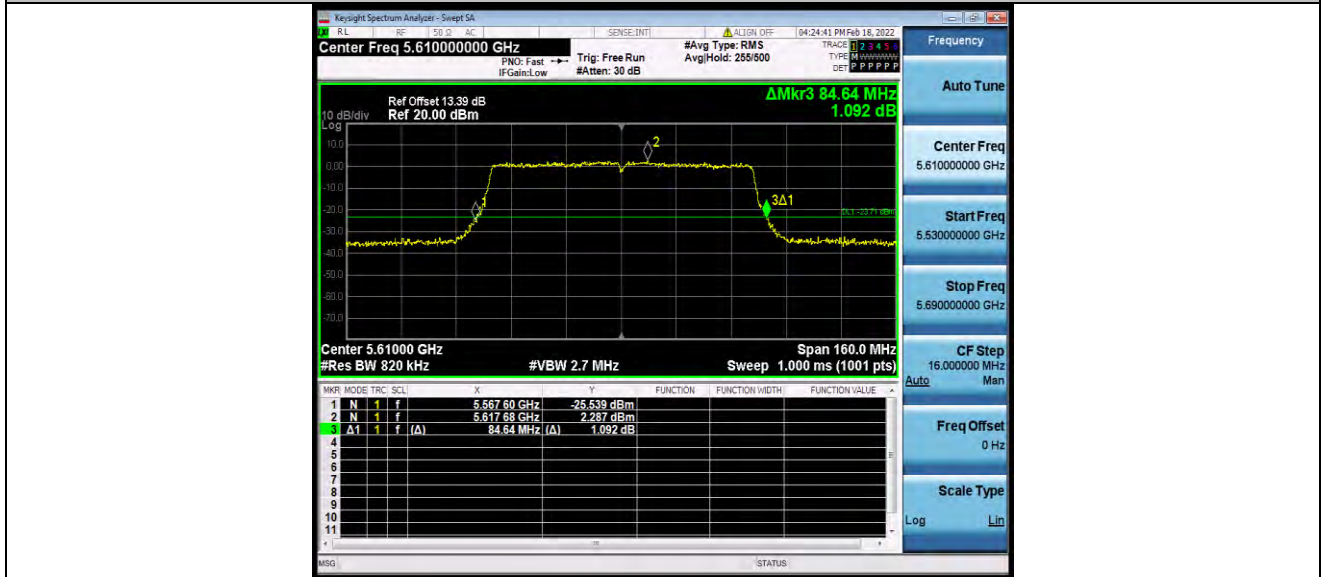


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11AC80SISO\_Ant1\_5610

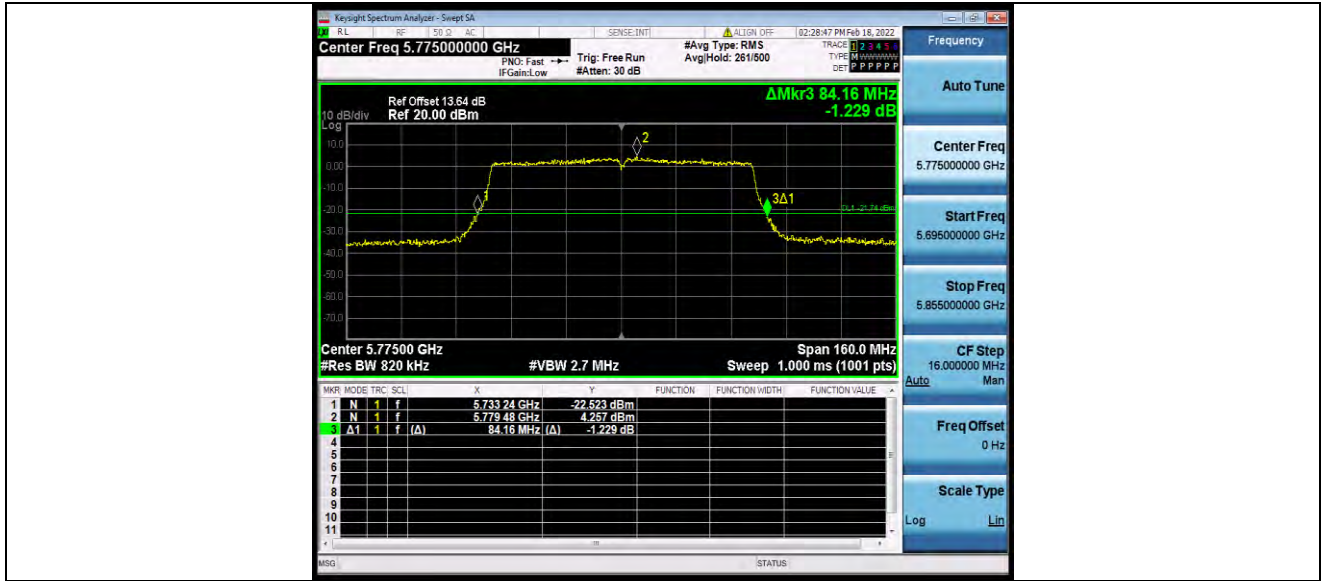


11AC80SISO\_Ant1\_5775



**BUREAU  
VERITAS**

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### OCCUPIED CHANNEL BANDWIDTH TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.008	5171.706	5188.714	---	PASS
		5200	17.027	5191.709	5208.736	---	PASS
		5240	16.968	5231.730	5248.698	---	PASS
		5260	17.031	5251.695	5268.726	---	PASS
		5280	16.970	5271.743	5288.713	---	PASS
		5320	17.019	5311.687	5328.706	---	PASS
		5500	16.970	5491.711	5508.681	---	PASS
		5580	16.990	5571.714	5588.704	---	PASS
		5700	16.992	5691.747	5708.739	---	PASS
		5745	17.013	5736.691	5753.704	---	PASS
		5785	16.988	5776.733	5793.721	---	PASS
		5825	16.973	5816.749	5833.722	---	PASS
11N20SISO	Ant1	5180	18.162	5171.118	5189.280	---	PASS
		5200	18.099	5191.154	5209.253	---	PASS
		5240	18.121	5231.157	5249.278	---	PASS
		5260	18.107	5251.182	5269.289	---	PASS
		5280	17.957	5270.88	5288.837	---	PASS
		5320	18.120	5311.154	5329.274	---	PASS
		5500	18.111	5491.134	5509.245	---	PASS
		5580	18.110	5571.124	5589.234	---	PASS
		5700	18.142	5691.185	5709.327	---	PASS
		5745	18.099	5736.150	5754.249	---	PASS
		5785	18.084	5776.180	5794.264	---	PASS
		5825	18.116	5816.159	5834.275	---	PASS
11N40SISO	Ant1	5190	36.527	5171.942	5208.469	---	PASS
		5230	36.445	5211.995	5248.440	---	PASS
		5270	36.522	5251.978	5288.500	---	PASS
		5310	36.505	5291.987	5328.492	---	PASS
		5510	36.472	5491.955	5528.427	---	PASS
		5550	36.427	5532.040	5568.467	---	PASS
		5670	36.461	5651.981	5688.442	---	PASS

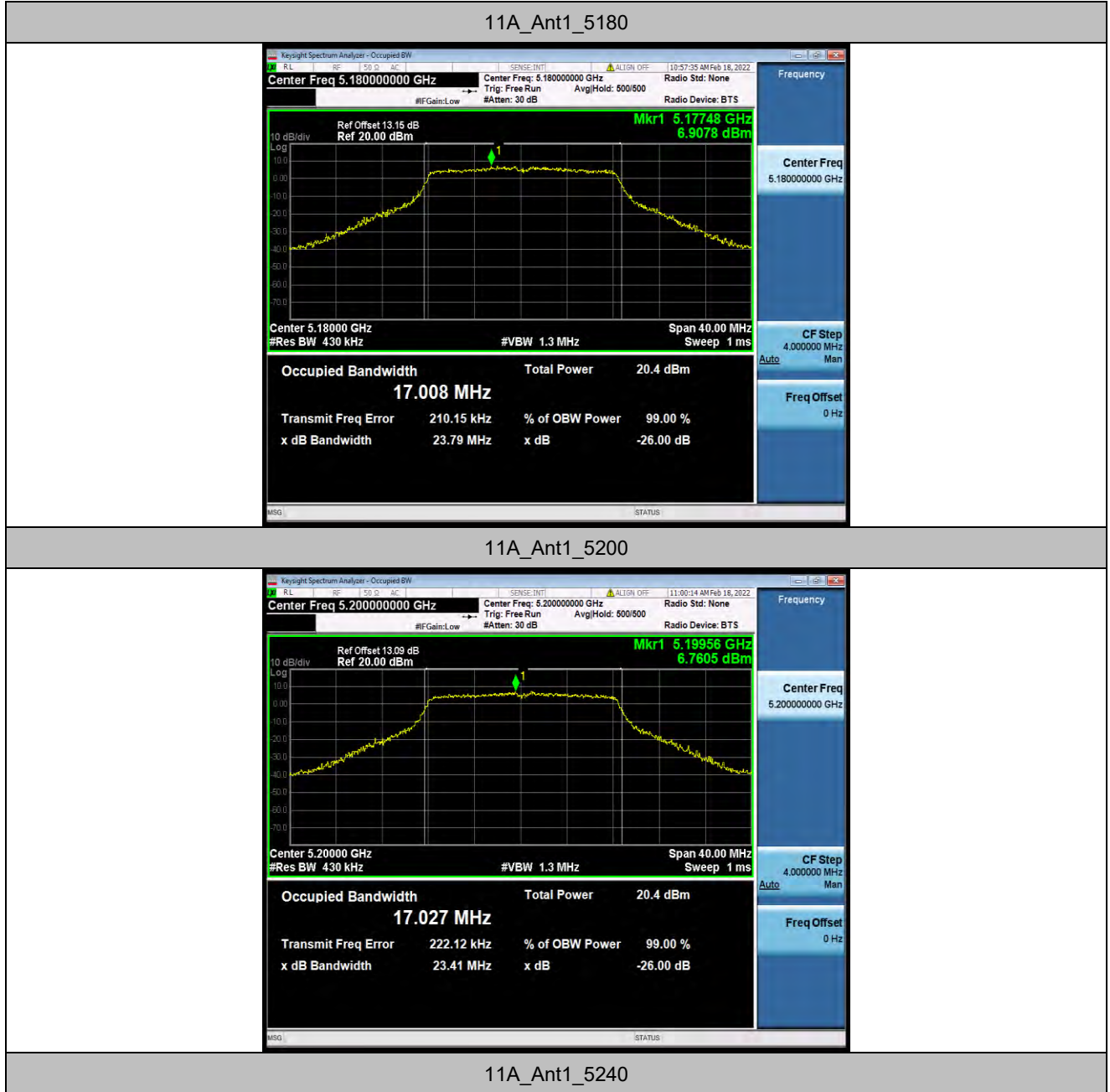




		5755	36.505	5736.996	5773.501	---	PASS
		5795	36.480	5776.991	5813.471	---	PASS
11AC20SISO	Ant1	5180	18.154	5171.112	5189.266	---	PASS
		5200	18.143	5191.138	5209.281	---	PASS
		5240	18.167	5231.148	5249.315	---	PASS
		5260	18.115	5251.189	5269.304	---	PASS
		5280	18.099	5271.172	5289.271	---	PASS
		5320	18.110	5311.138	5329.248	---	PASS
		5500	18.153	5491.103	5509.256	---	PASS
		5580	18.128	5571.122	5589.250	---	PASS
		5700	18.155	5691.161	5709.316	---	PASS
		5745	18.126	5736.126	5754.252	---	PASS
		5785	18.132	5776.155	5794.287	---	PASS
		5825	18.146	5816.134	5834.280	---	PASS
		11AC40SISO	Ant1	5190	36.497	5171.960	5208.457
5230	36.480			5211.979	5248.459	---	PASS
5270	36.467			5252.013	5288.480	---	PASS
5310	36.429			5291.982	5328.411	---	PASS
5510	36.522			5491.936	5528.458	---	PASS
5550	36.410			5532.036	5568.446	---	PASS
5670	36.385			5652.011	5688.396	---	PASS
5755	36.467			5736.989	5773.456	---	PASS
5795	36.475			5776.990	5813.465	---	PASS
11AC80SISO	Ant1	5210	75.902	5172.346	5248.248	---	PASS
		5290	75.749	5252.398	5328.147	---	PASS
		5530	75.933	5492.298	5568.231	---	PASS
		5610	76.107	5572.122	5648.229	---	PASS
		5775	75.890	5737.334	5813.224	---	PASS



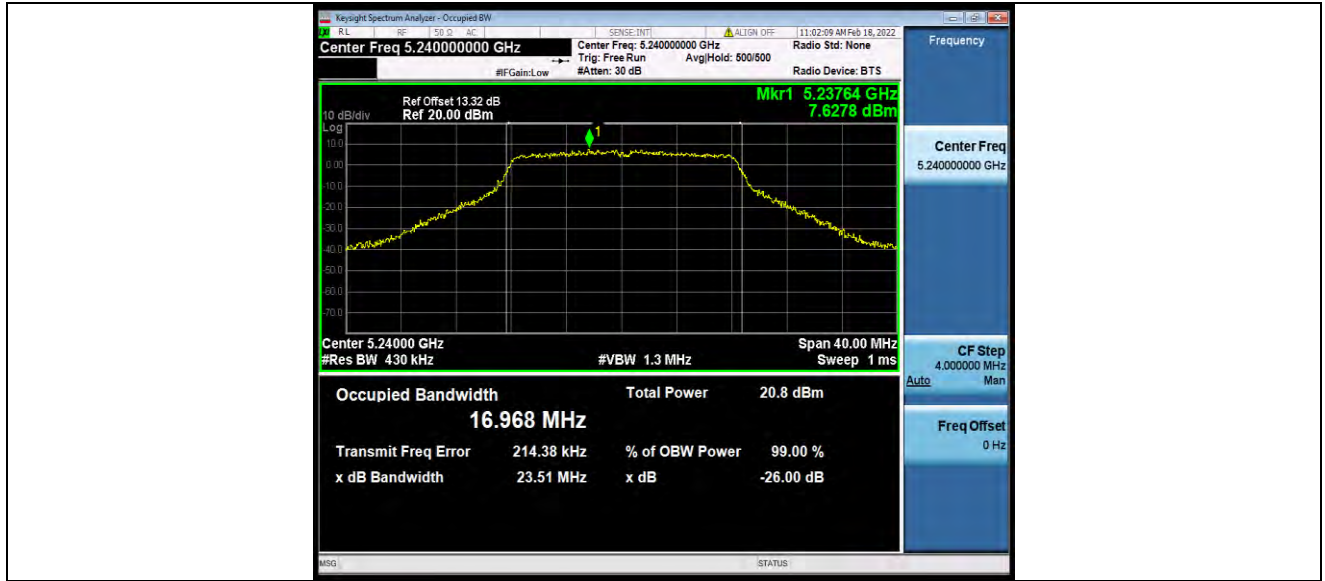
### TEST GRAPHS





BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11A\_Ant1\_5260



11A\_Ant1\_5280



BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11A\_Ant1\_5320



11A\_Ant1\_5500



BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11A\_Ant1\_5580



11A\_Ant1\_5700





BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11A\_Ant1\_5745



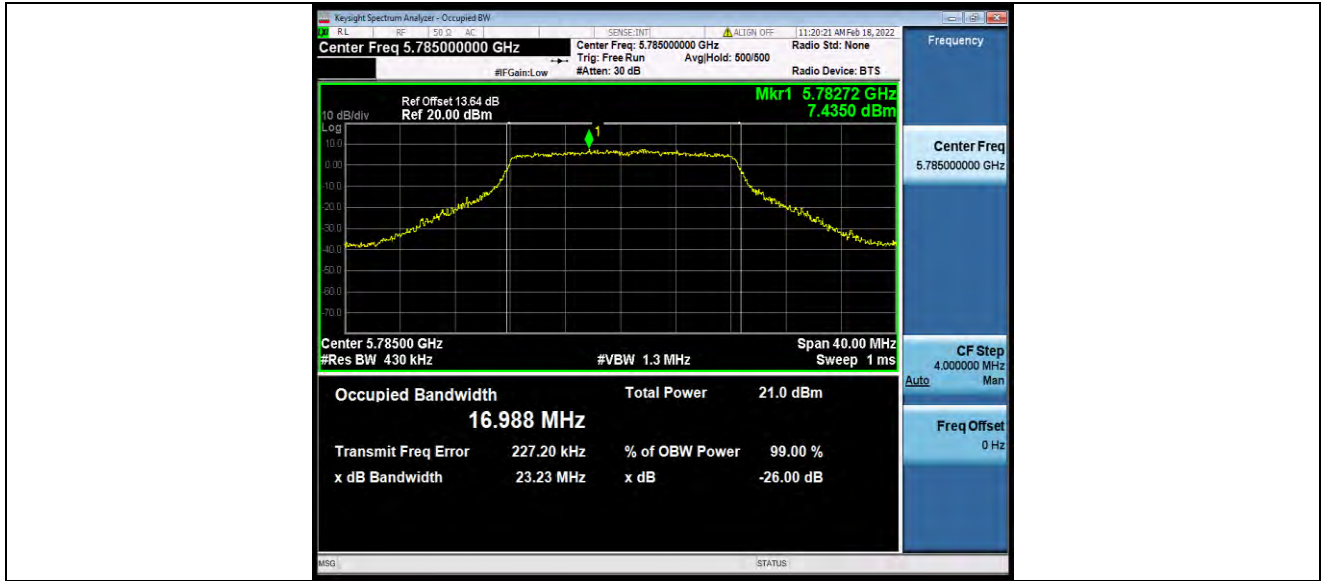
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BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11A\_Ant1\_5825



11N20SISO\_Ant1\_5180



BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N20SISO\_Ant1\_5200



11N20SISO\_Ant1\_5240

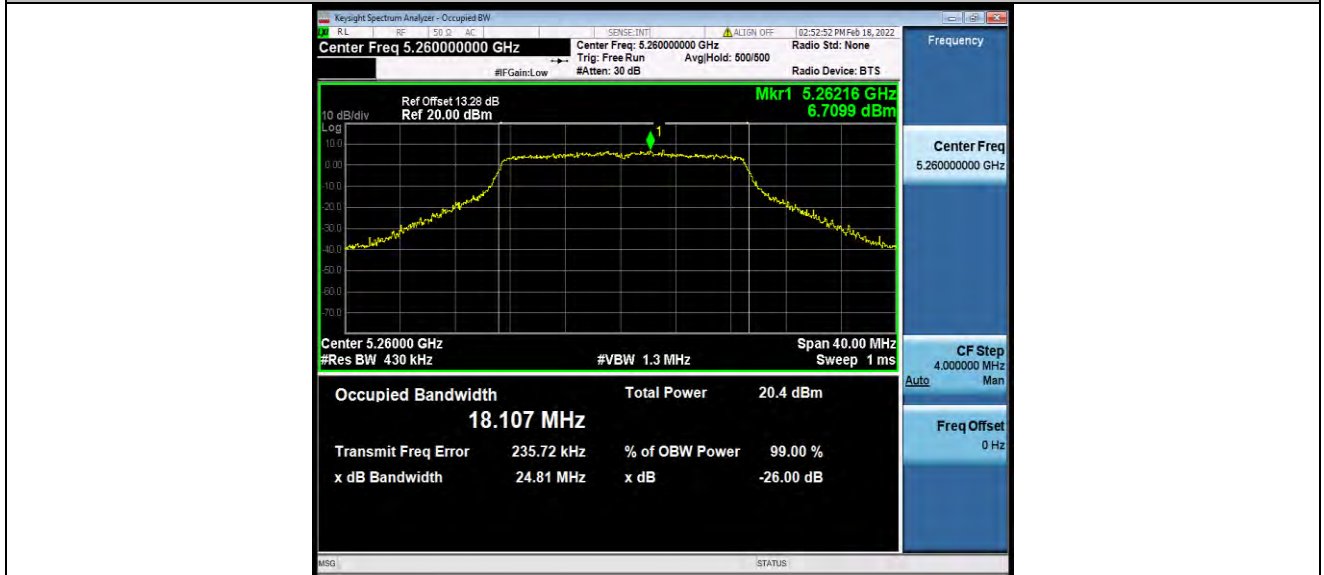


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



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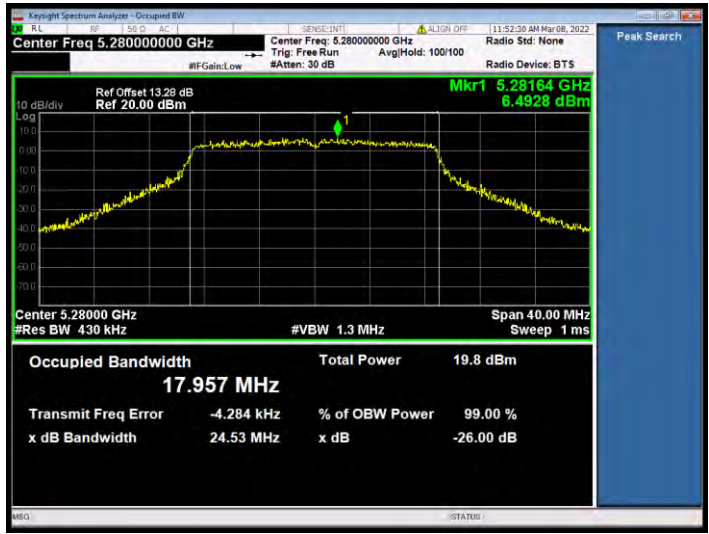


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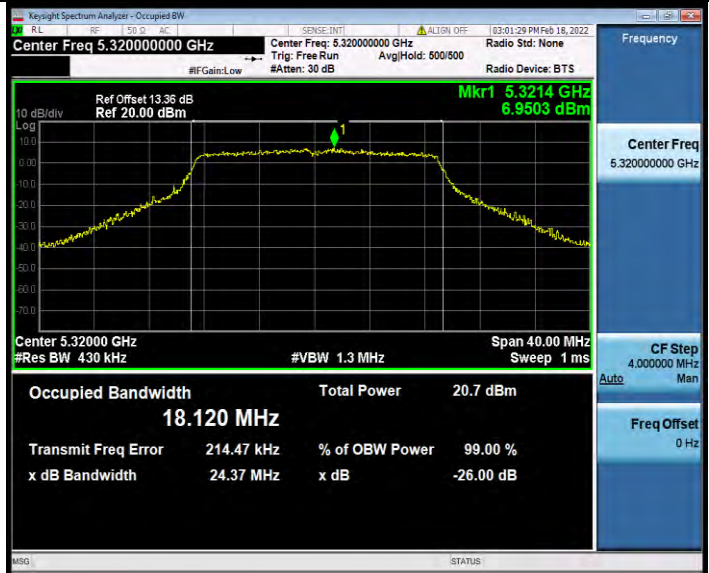


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N20SISO\_Ant1\_5320



11N20SISO\_Ant1\_5500





BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N20SISO\_Ant1\_5580



11N20SISO\_Ant1\_5700





BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N20SISO\_Ant1\_5745



11N20SISO\_Ant1\_5785



BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N20SISO\_Ant1\_5825



11N40SISO\_Ant1\_5190



BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N40SISO\_Ant1\_5230

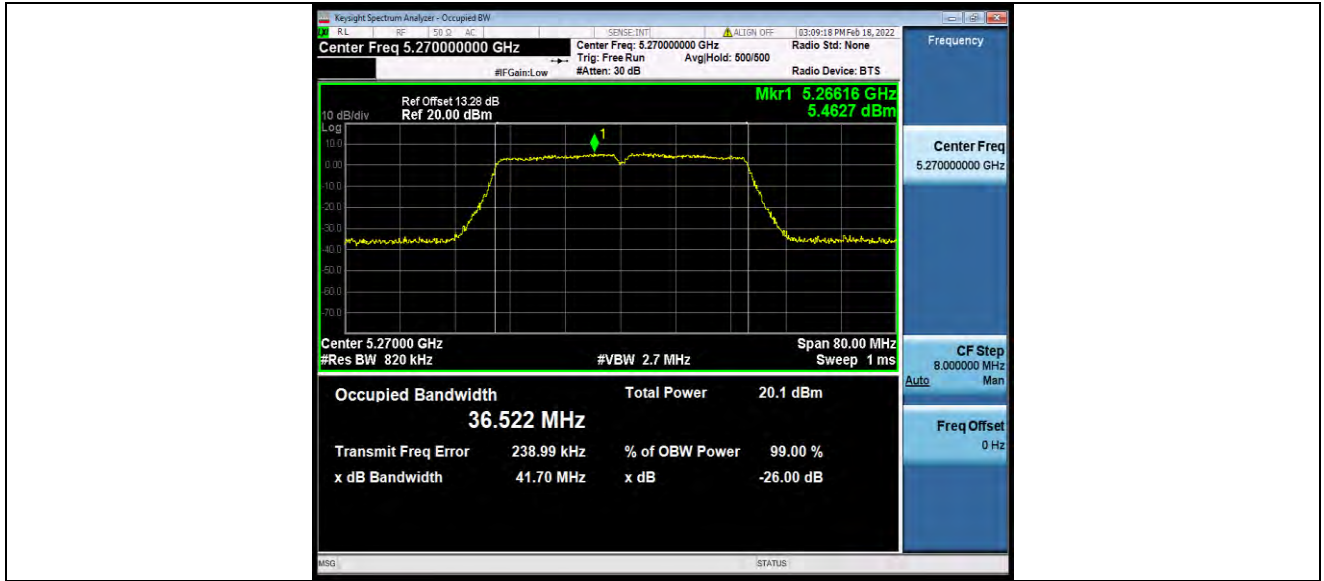


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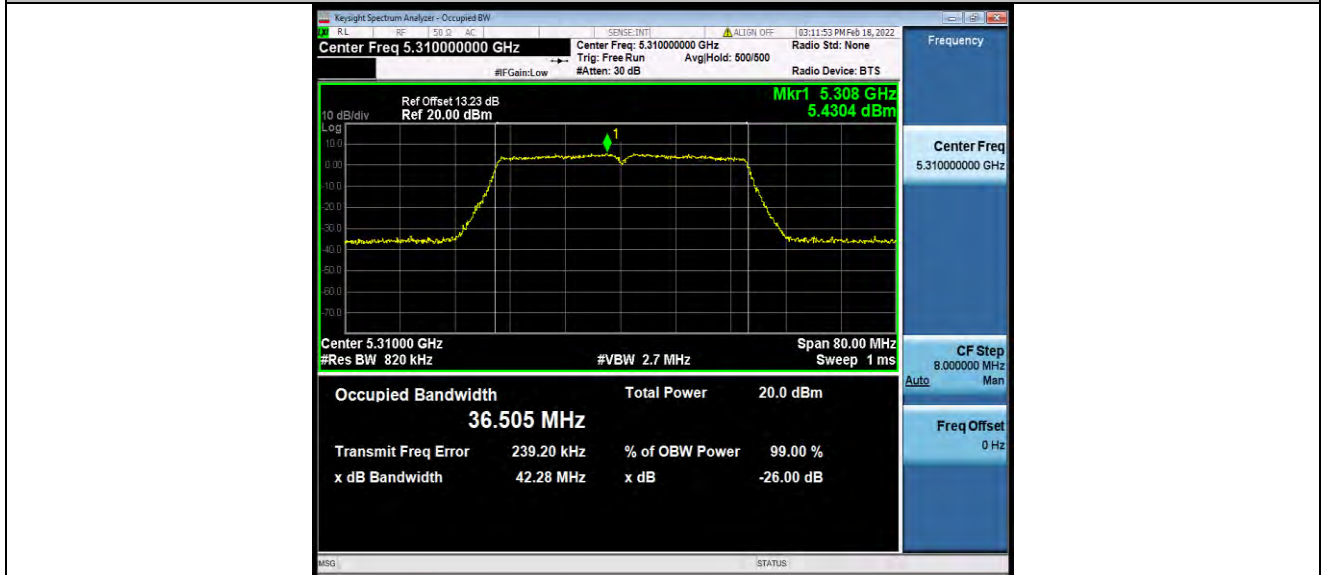


BUREAU VERITAS

Test Report No.: W7L-P23060012RF03



11N40SISO\_Ant1\_5310



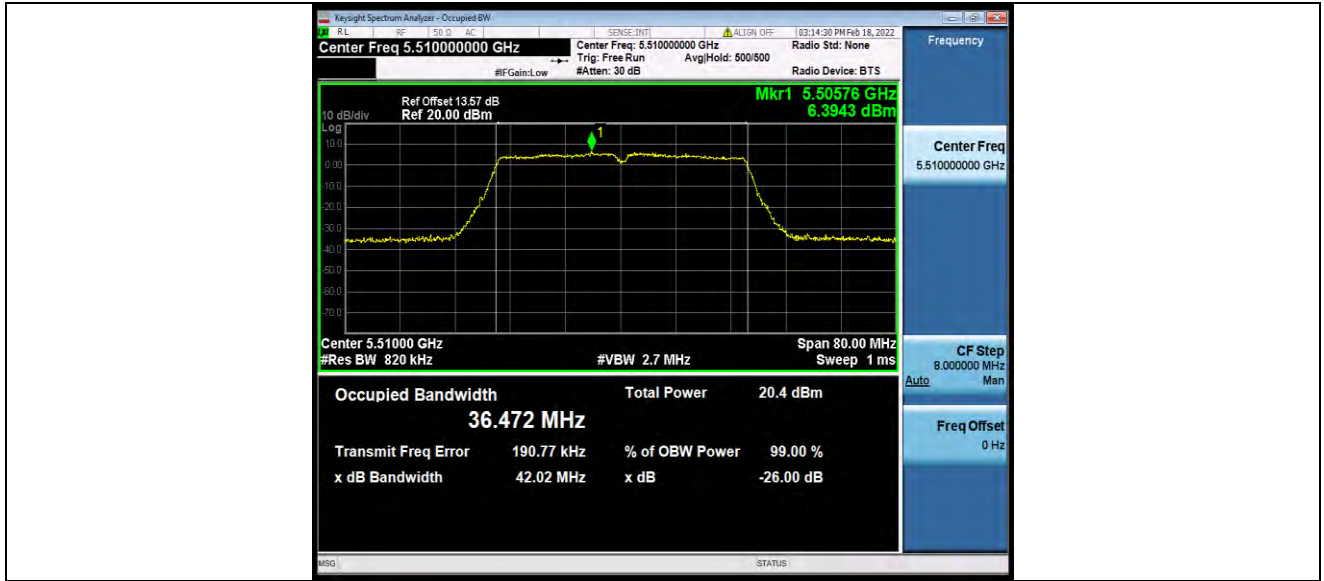
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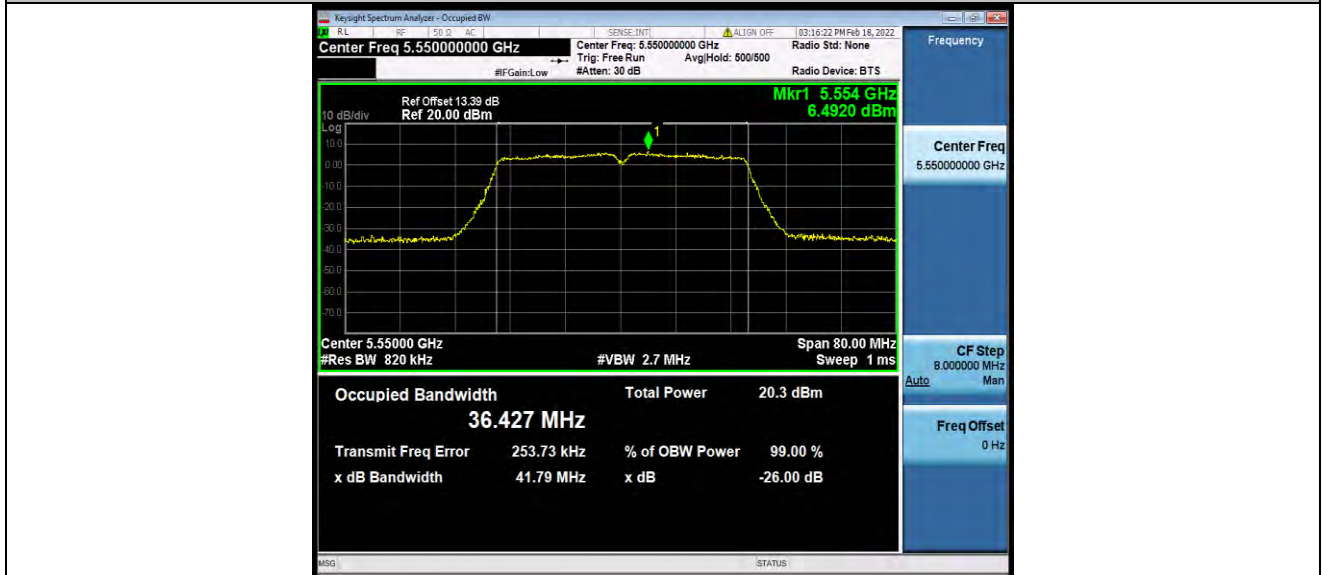


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Test Report No.: W7L-P23060012RF03



11N40SISO\_Ant1\_5550



11N40SISO\_Ant1\_5670





BUREAU VERITAS

Test Report No.: W7L-P23060012RF03

