

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 14,23	Feb. 13,24
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 03,23	Mar. 02,24

NOTE:

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

3.2.3 TEST PROCEDURES

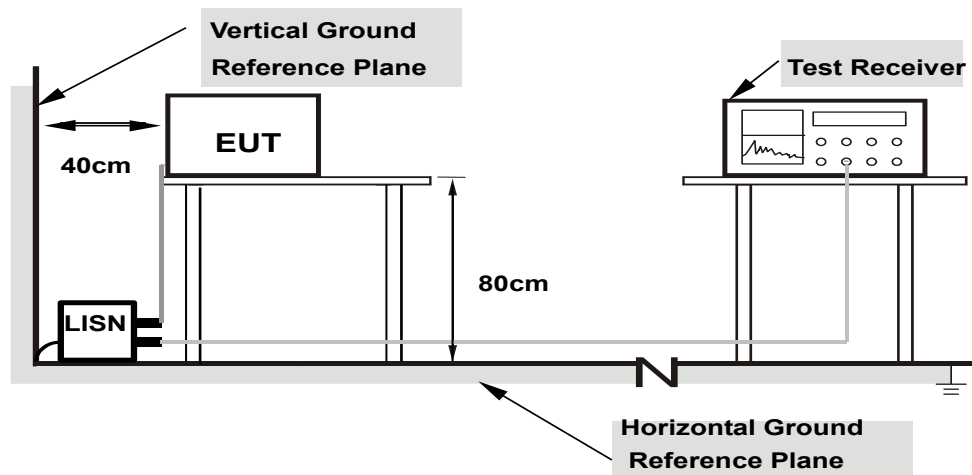
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



**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**

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

3.2.7 TEST RESULTS

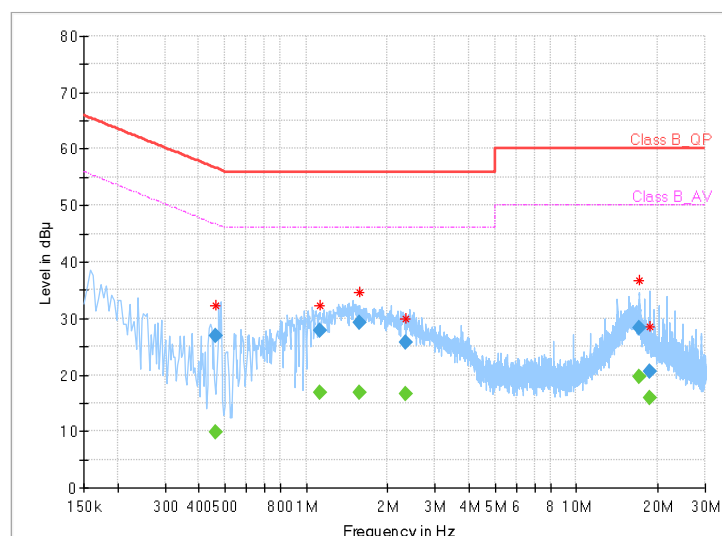
CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.464000	---	9.84	46.62	36.78	L1	ON	9.7
0.464000	26.94	---	56.62	29.68	L1	ON	9.7
1.124000	---	16.91	46.00	29.09	L1	ON	9.7
1.124000	27.93	---	56.00	28.07	L1	ON	9.7
1.568000	---	16.91	46.00	29.09	L1	ON	9.7
1.568000	29.27	---	56.00	26.73	L1	ON	9.7
2.340000	---	16.57	46.00	29.43	L1	ON	9.7
2.340000	25.64	---	56.00	30.36	L1	ON	9.7
17.180000	---	19.72	50.00	30.28	L1	ON	9.8
17.180000	28.32	---	60.00	31.68	L1	ON	9.8
18.676000	---	15.93	50.00	34.07	L1	ON	9.8
18.676000	20.70	---	60.00	39.30	L1	ON	9.8

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum

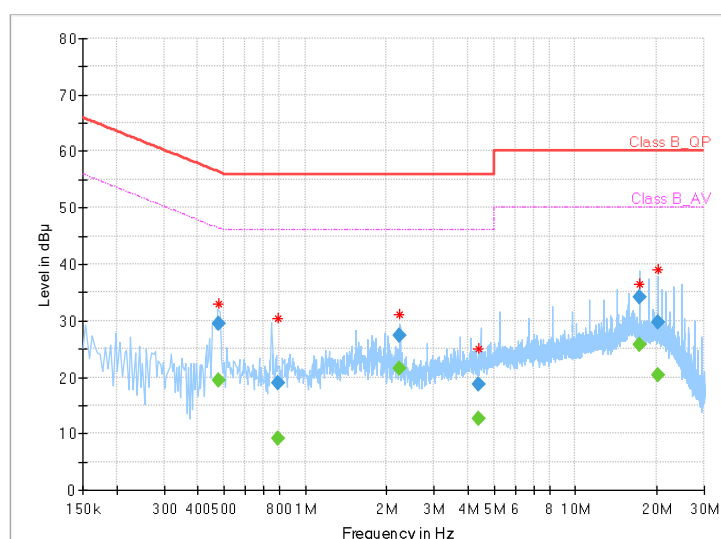


Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.480000	---	19.34	46.34	27.00	N	ON	9.7
0.480000	29.38	---	56.34	26.96	N	ON	9.7
0.794000	---	9.03	46.00	36.97	N	ON	9.7
0.794000	18.99	---	56.00	37.01	N	ON	9.7
2.244000	---	21.51	46.00	24.49	N	ON	9.8
2.244000	27.26	---	56.00	28.74	N	ON	9.8
4.384000	---	12.59	46.00	33.41	N	ON	9.8
4.384000	18.73	---	56.00	37.27	N	ON	9.8
17.208000	---	25.70	50.00	24.30	N	ON	9.9
17.208000	34.04	---	60.00	25.96	N	ON	9.9
20.208000	---	20.29	50.00	29.71	N	ON	9.9
20.208000	29.69	---	60.00	30.31	N	ON	9.9

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

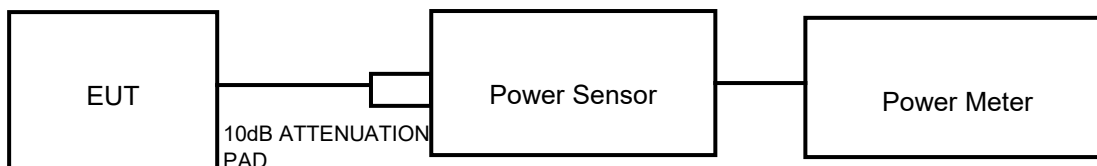
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
	B	Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

NOTE: Where B is the 26dB emission bandwidth in MHz.

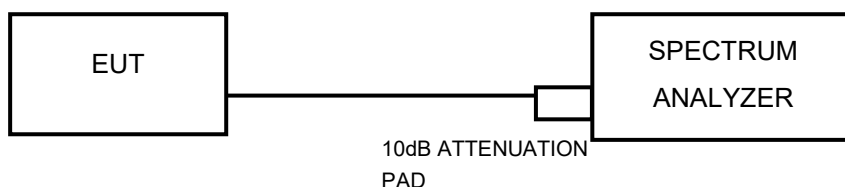
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

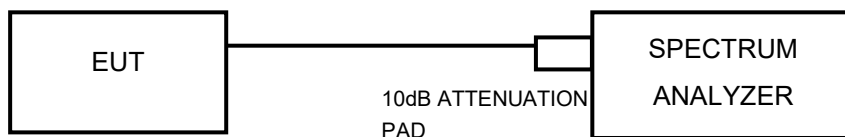
802.11a, 802.11n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz) TEST CONFIGURATION



802.11ac/ax (80MHz) TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 14,23	Feb. 13,24
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 17,23	Feb. 16,24
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.14,22	May.13,23
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 14,23	Feb. 13,24

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.

3.3.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11 n/ac/ax (20MHz), 802.11 n/ac/ax (40MHz)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

For 802.11ac/ax (80MHz)

1. Measure the duty cycle, x , of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1 MHz.
4. Set VBW $\geq$ 3 MHz.
5. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
8. Do not use sweep triggering. Allow the sweep to “free run.”
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power 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). For example, add $10 \log (1/0.25) = 6 \text{ dB}$ if the duty cycle is 25%.

FOR 99 PERCENT OCCUPIED BANDWIDTH

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

FOR 26dB BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

FOR 6dB BANDWIDTH

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.



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3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 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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3.3.7 TEST RESULTS

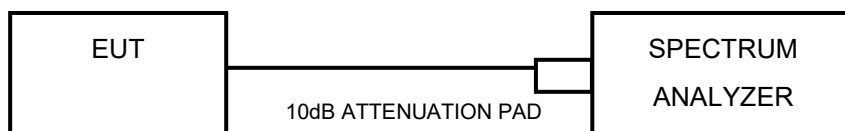
Please Refer to Appendix Of this test report.

3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 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

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

Using method SA-2(Band1/2/3)

- 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

Using method SA-2 (Band4)

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 KHz, Set VBW $\geq$ 1 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 $10 \log(500\text{kHz}/\text{RBW})$ to the test result. $10 \log(500\text{kHz}/300\text{KHZ}) = 2.22\text{dBm}$
- 7) 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).
- 8) Record the max value

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.7.



Test Report No.: W7L-P23030005RF03

3.4.7 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 AUTOMATICALLY DISCONTINUE TRANSMISSION

3.5.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.5.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.3 TEST RESULT

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission

3.6 ANTENNA REQUIREMENTS

3.6.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.6.3 ANTENNA GAIN

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit and PSD limit



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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

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

6 APPENDIX: RLAN

EMISSION BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.960	5168.800	5190.760	---	---
		5200	19.680	5190.240	5209.920	---	---
		5240	22.320	5230.040	5252.360	---	---
		5260	19.960	5250.040	5270.000	---	---
		5300	19.640	5290.240	5309.880	---	---
		5320	20.040	5309.960	5330.000	---	---
		5500	20.040	5490.040	5510.080	---	---
		5580	19.880	5570.040	5589.920	---	---
		5700	19.840	5690.040	5709.880	---	---
		5720	19.800	5710.160	5729.960	---	---
		5720_UNII-2C	14.84	5710.160	5725	---	---
		5720_UNII-3	4.96	5725	5729.960	---	---
		5745	19.800	5735.120	5754.920	---	---
		5785	20.680	5774.240	5794.920	---	---
		5825	19.640	5815.080	5834.720	---	---
11N20SISO	Ant1	5180	20.760	5169.400	5190.160	---	---
		5200	21.520	5188.600	5210.120	---	---
		5240	20.280	5229.880	5250.160	---	---
		5260	20.800	5249.920	5270.720	---	---
		5300	20.120	5290.000	5310.120	---	---
		5320	20.920	5309.840	5330.760	---	---
		5500	22.560	5488.400	5510.960	---	---
		5580	20.120	5570.040	5590.160	---	---
		5700	20.720	5690.000	5710.720	---	---
		5720	20.200	5709.840	5730.040	---	---
		5720_UNII-2C	15.16	5709.840	5725	---	---
		5720_UNII-3	5.04	5725	5730.040	---	---
		5745	20.000	5734.960	5754.960	---	---
		5785	20.240	5774.880	5795.120	---	---
		5825	20.800	5814.280	5835.080	---	---



11N40SISO	Ant1	5190	40.320	5170.000	5210.320	---	---
		5230	40.160	5209.840	5250.000	---	---
		5270	40.400	5249.760	5290.160	---	---
		5310	55.760	5289.920	5345.680	---	---
		5510	40.640	5489.760	5530.400	---	---
		5550	40.800	5529.760	5570.560	---	---
		5670	40.800	5649.600	5690.400	---	---
		5710	40.960	5689.360	5730.320	---	---
		5710_UNII-2C	35.64	5689.360	5725	---	---
		5710_UNII-3	5.32	5725	5730.320	---	---
		5755	40.240	5734.920	5775.160	---	---
		5795	41.520	5774.920	5816.440	---	---
11AC20SISO	Ant1	5180	20.320	5169.680	5190.000	---	---
		5200	20.200	5189.800	5210.000	---	---
		5240	20.280	5229.920	5250.200	---	---
		5260	20.280	5249.960	5270.240	---	---
		5300	20.160	5289.880	5310.040	---	---
		5320	20.120	5309.920	5330.040	---	---
		5500	20.400	5489.840	5510.240	---	---
		5580	19.880	5569.960	5589.840	---	---
		5700	22.240	5687.880	5710.120	---	---
		5720	20.000	5710.040	5730.040	---	---
		5720_UNII-2C	14.96	5710.040	5725	---	---
		5720_UNII-3	5.04	5725	5730.040	---	---
		5745	20.200	5734.880	5755.080	---	---
		5785	20.120	5775.080	5795.200	---	---
		5825	20.120	5814.960	5835.080	---	---
11AC40SISO	Ant1	5190	40.240	5169.920	5210.160	---	---
		5230	40.240	5209.920	5250.160	---	---
		5270	40.400	5249.760	5290.160	---	---
		5310	40.320	5289.680	5330.000	---	---
		5510	40.640	5489.600	5530.240	---	---
		5550	40.560	5529.680	5570.240	---	---
		5670	40.240	5650.000	5690.240	---	---



11AC40SISO	Ant1	5710	40.320	5689.680	5730.000	---	---
		5710_UNII-2C	35.32	5689.680	5725	---	---
		5710_UNII-3	5	5725	5730.000	---	---
		5755	40.960	5734.600	5775.560	---	---
		5795	40.240	5775.080	5815.320	---	---
11AC80SISO	Ant1	5210	80.800	5169.520	5250.320	---	---
		5290	80.640	5250.000	5330.640	---	---
		5530	81.120	5489.360	5570.480	---	---
		5610	80.960	5569.680	5650.640	---	---
		5690	80.960	5649.520	5730.480	---	---
		5690_UNII-2C	75.48	5649.520	5725	---	---
		5690_UNII-3	5.48	5725	5730.480	---	---
		5775	80.480	5734.840	5815.320	---	---

TEST GRAPHS

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



BUREAU
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Test Report No.: W7L-P23030005RF03



11A_Ant1_5260



11A_Ant1_5300



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VERITAS

Test Report No.: W7L-P23030005RF03





BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11A_Ant1_5580

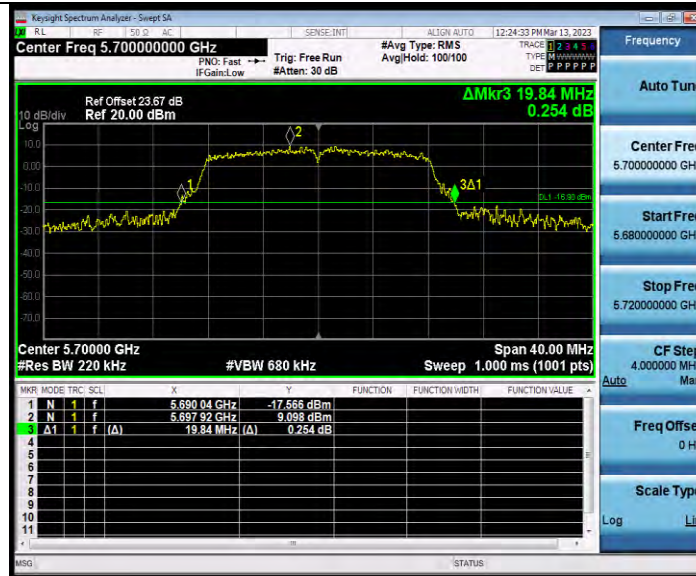


11A_Ant1_5700

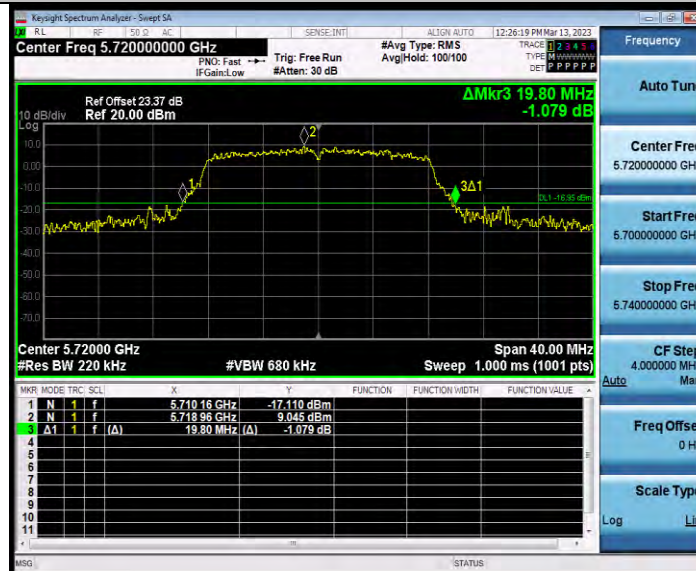


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Test Report No.: W7L-P23030005RF03



11A_Ant1_5720



11A_Ant1_5745



BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11A_Ant1_5785

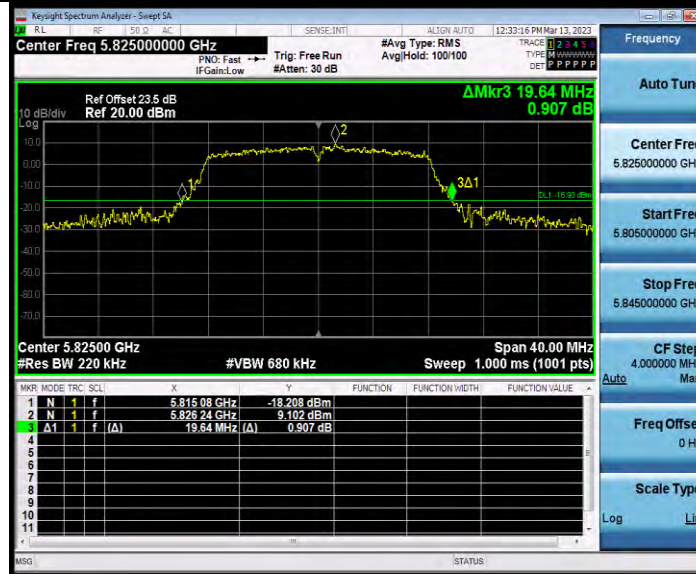


11A_Ant1_5825



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VERITAS

Test Report No.: W7L-P23030005RF03



11N20SISO_Ant1_5180

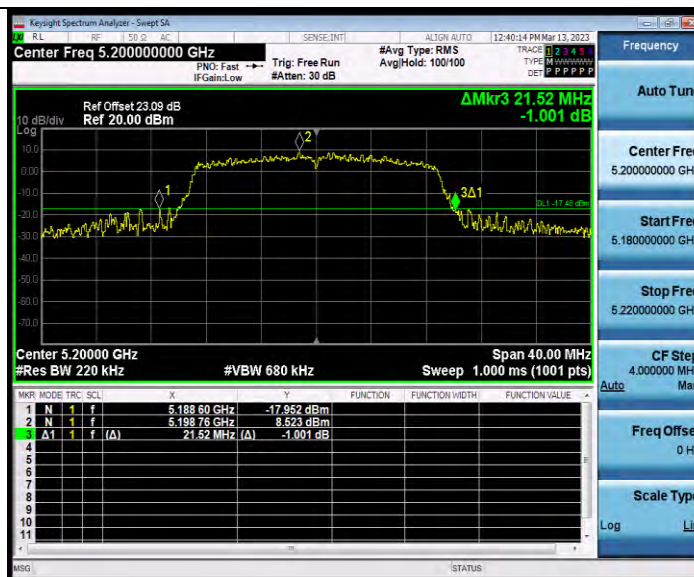


11N20SISO_Ant1_5200



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VERITAS

Test Report No.: W7L-P23030005RF03



11N20SISO_Ant1_5240

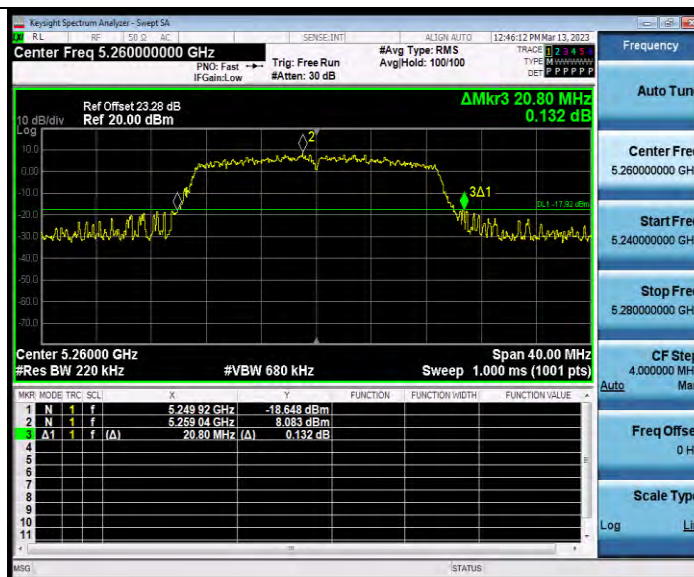


11N20SISO_Ant1_5260



BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11N20SISO_Ant1_5300



11N20SISO_Ant1_5320



BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11N20SISO_Ant1_5500



11N20SISO_Ant1_5580

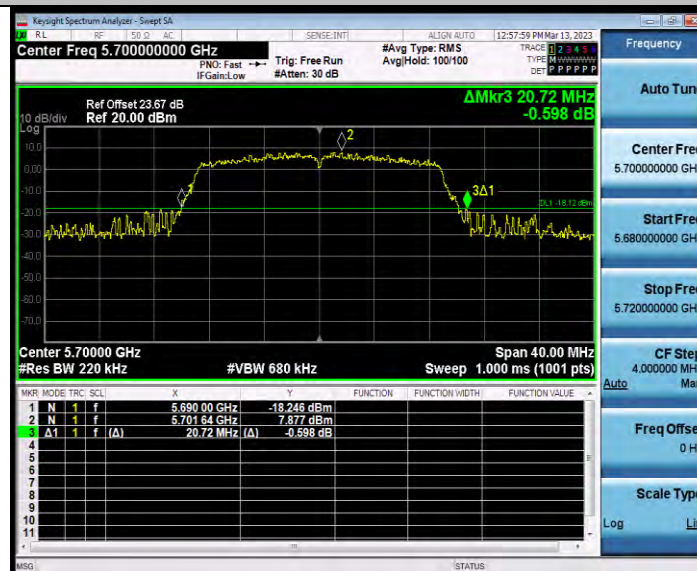


BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11N20SISO_Ant1_5700



11N20SISO_Ant1_5720

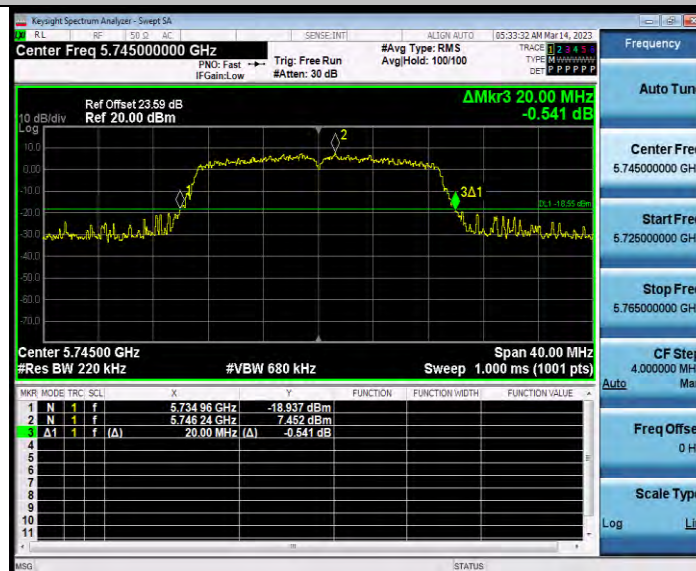


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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

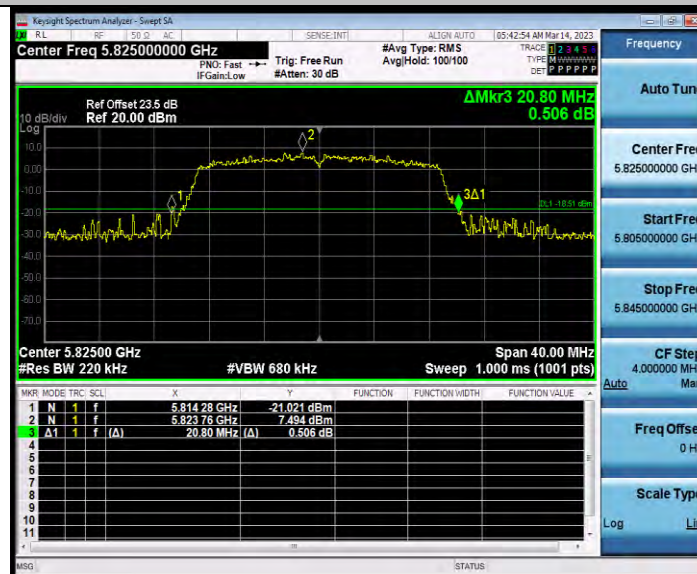


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VERITAS

Test Report No.: W7L-P23030005RF03



11N20SISO_Ant1_5825

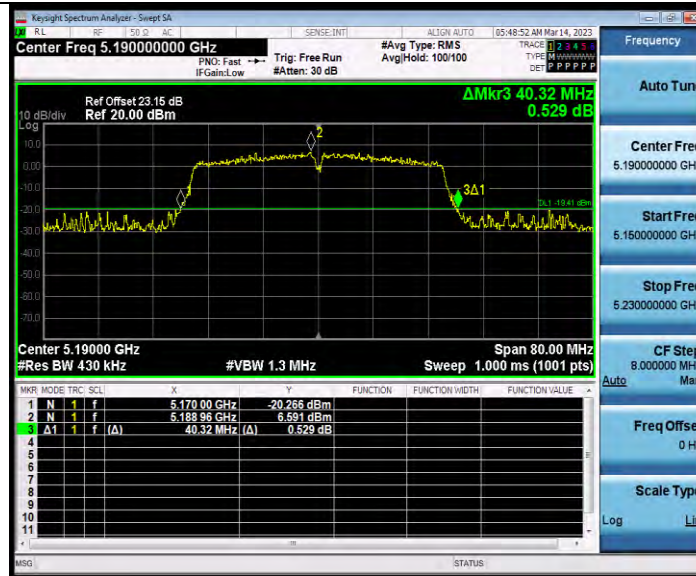


11N40SISO_Ant1_5190



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Test Report No.: W7L-P23030005RF03



11N40SISO_Ant1_5230

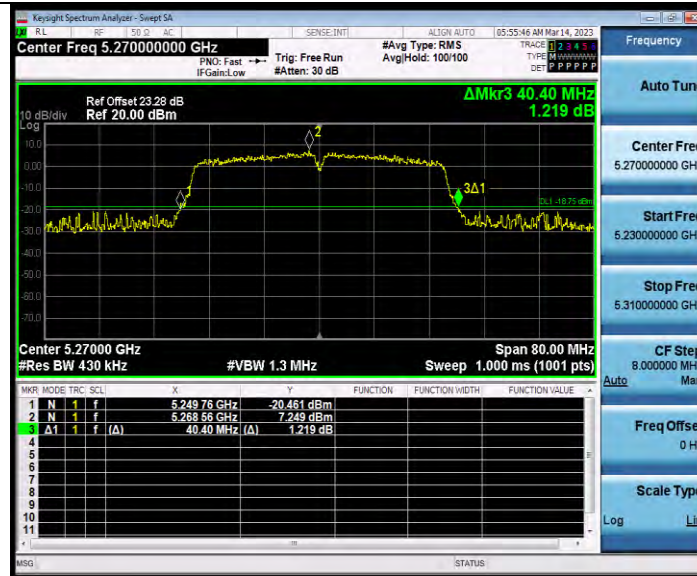


11N40SISO_Ant1_5270

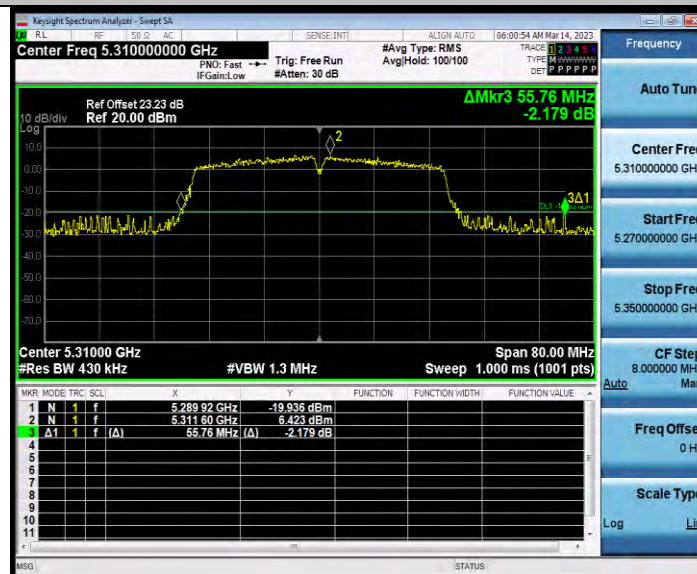


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VERITAS

Test Report No.: W7L-P23030005RF03



11N40SISO_Ant1_5310

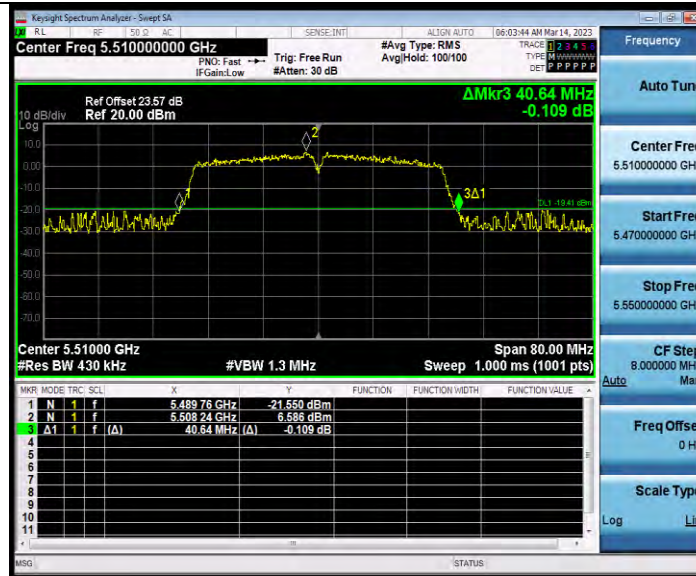


11N40SISO_Ant1_5510



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VERITAS

Test Report No.: W7L-P23030005RF03



11N40SISO_Ant1_5550

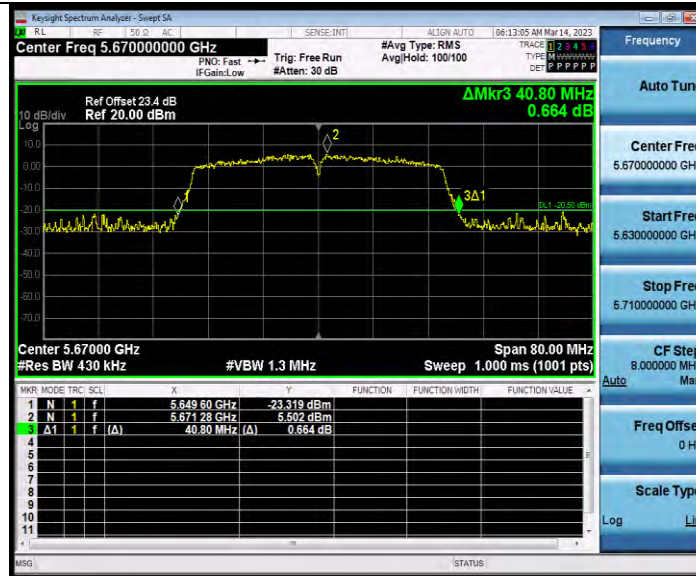


11N40SISO_Ant1_5670

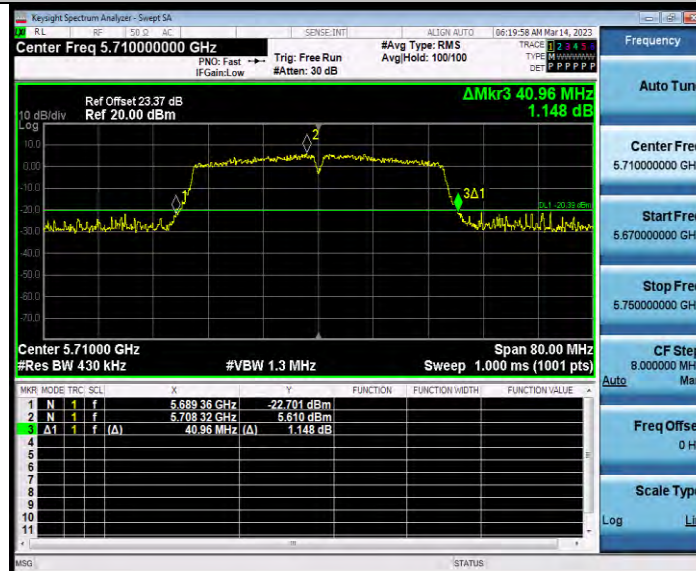


BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11N40SISO_Ant1_5710

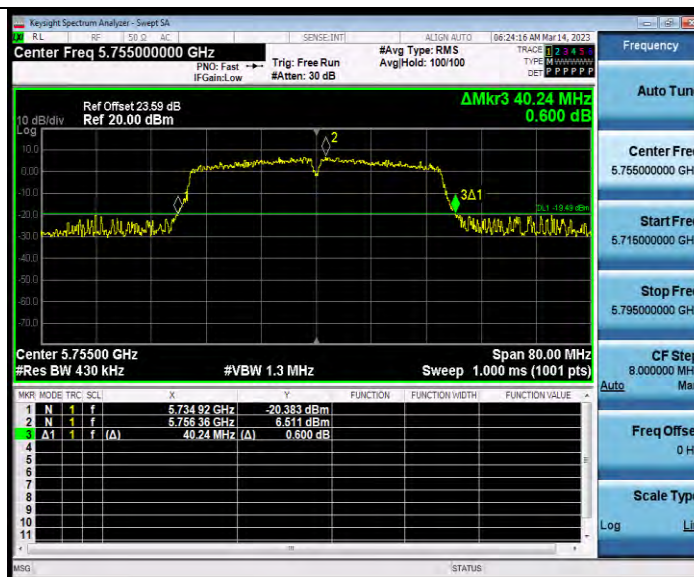


11N40SISO_Ant1_5755



BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11AC20SISO_Ant1_5260

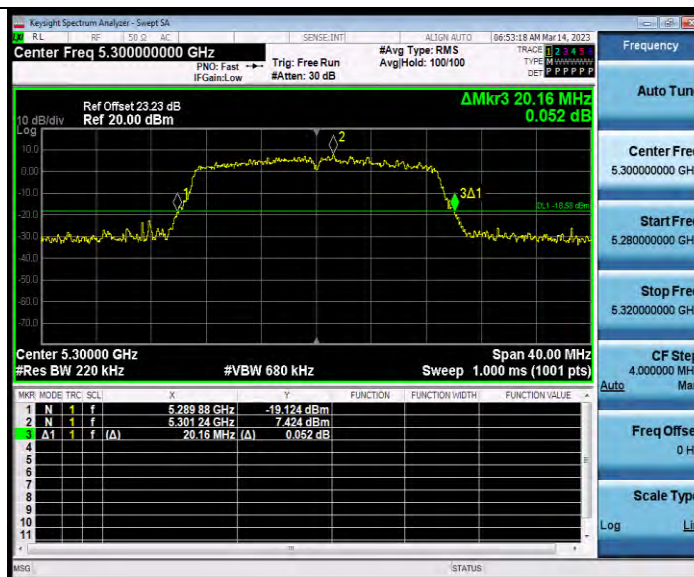


11AC20SISO_Ant1_5300



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VERITAS

Test Report No.: W7L-P23030005RF03



11AC20SISO_Ant1_5320

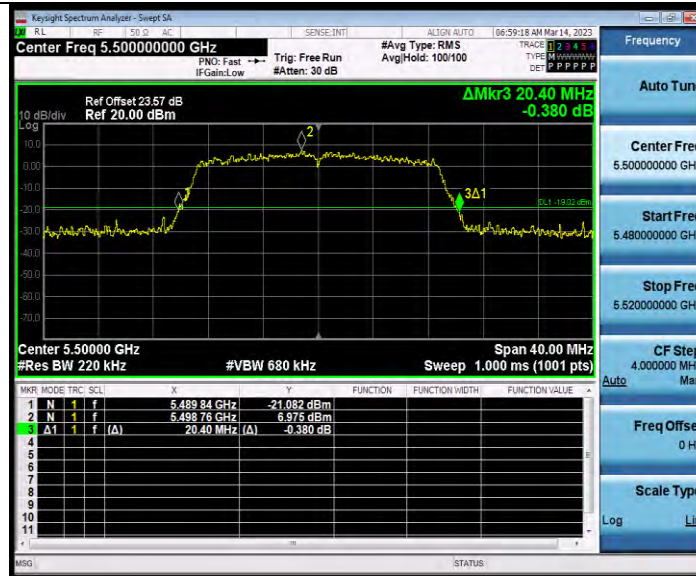


11AC20SISO_Ant1_5500



BUREAU
VERITAS

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11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5700



BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11AC20SISO_Ant1_5720

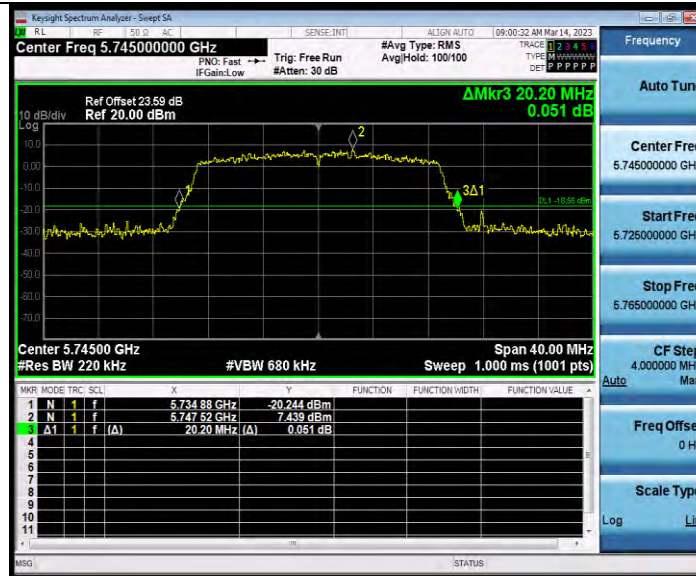


11AC20SISO_Ant1_5745

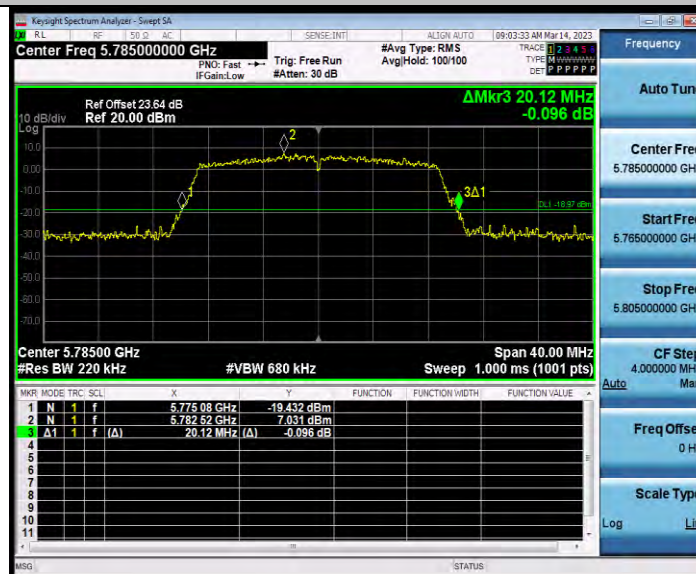


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VERITAS

Test Report No.: W7L-P23030005RF03



11AC20SISO_Ant1_5785

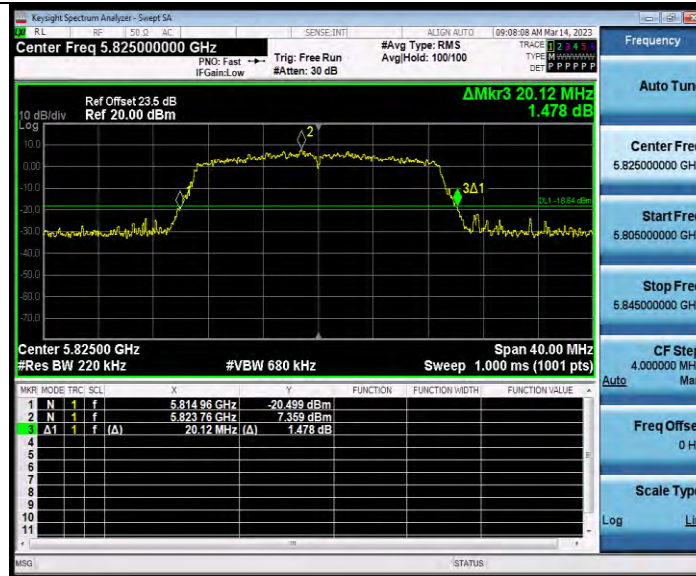


11AC20SISO_Ant1_5825

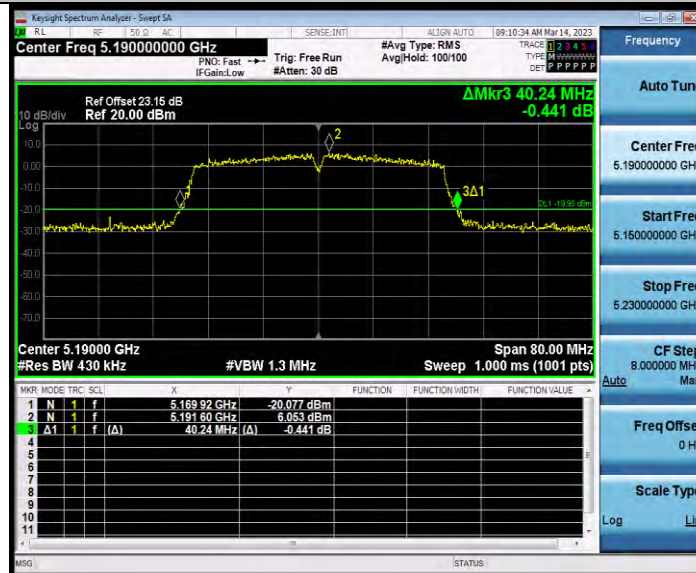


BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11AC40SISO_Ant1_5190

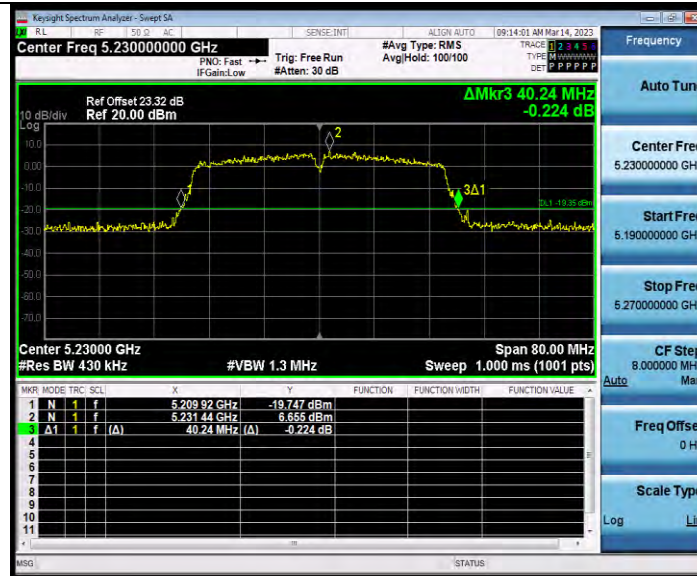


11AC40SISO_Ant1_5230

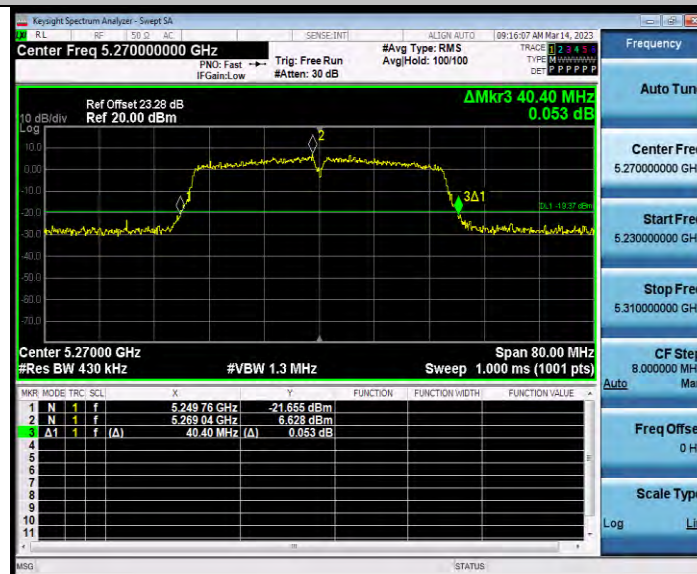


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VERITAS

Test Report No.: W7L-P23030005RF03



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11AC40SISO_Ant1_5510

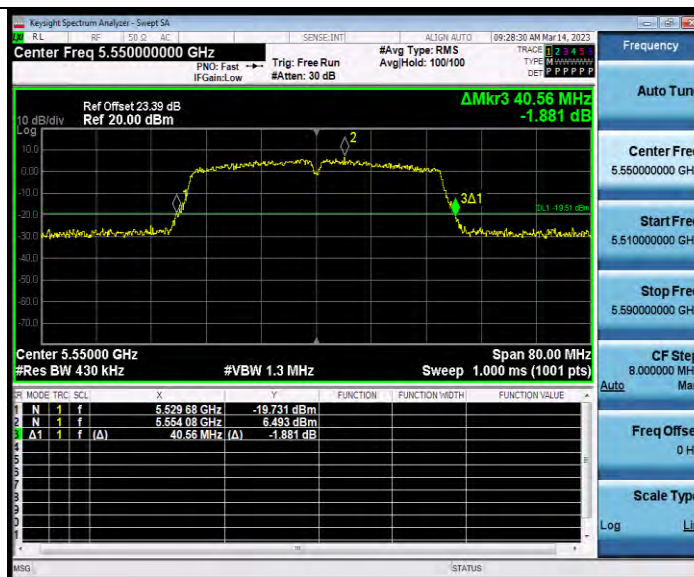


11AC40SISO_Ant1_5550

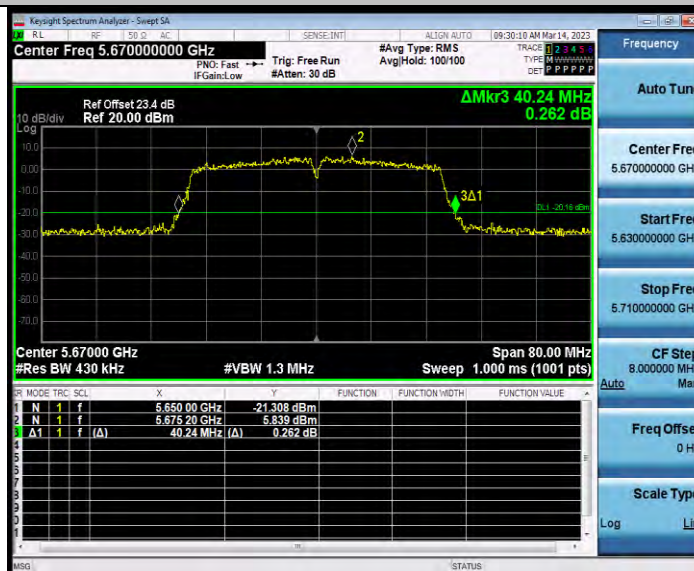


BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11AC40SISO_Ant1_5670

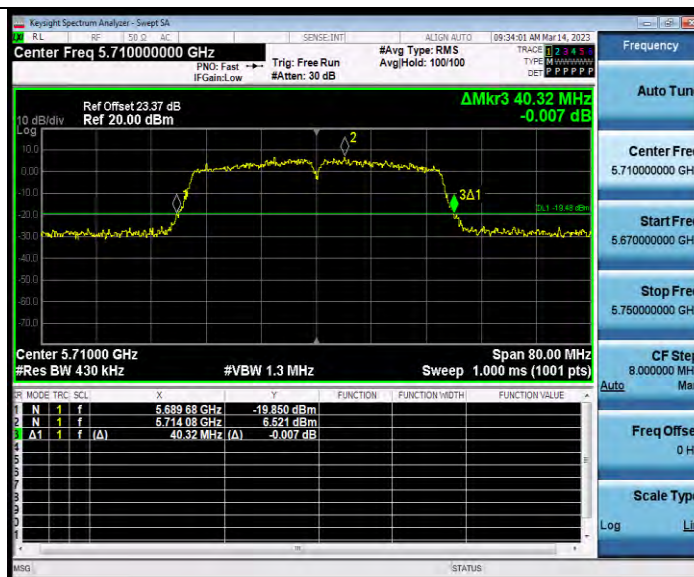


11AC40SISO_Ant1_5710

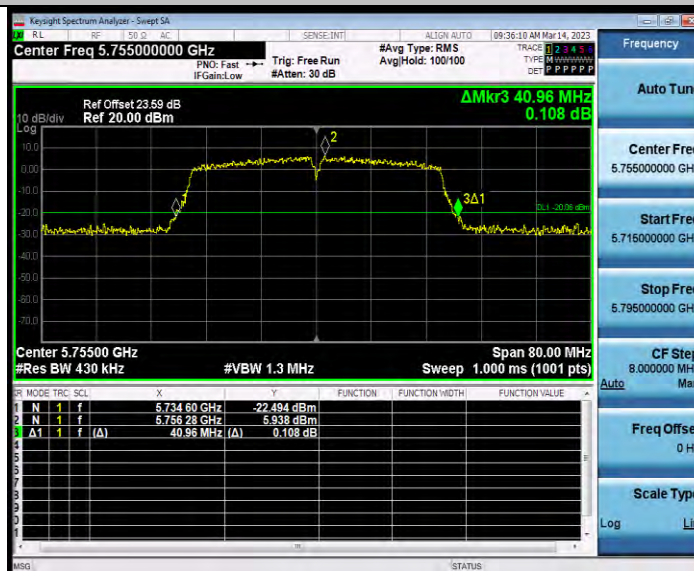


BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11AC40SISO_Ant1_5755

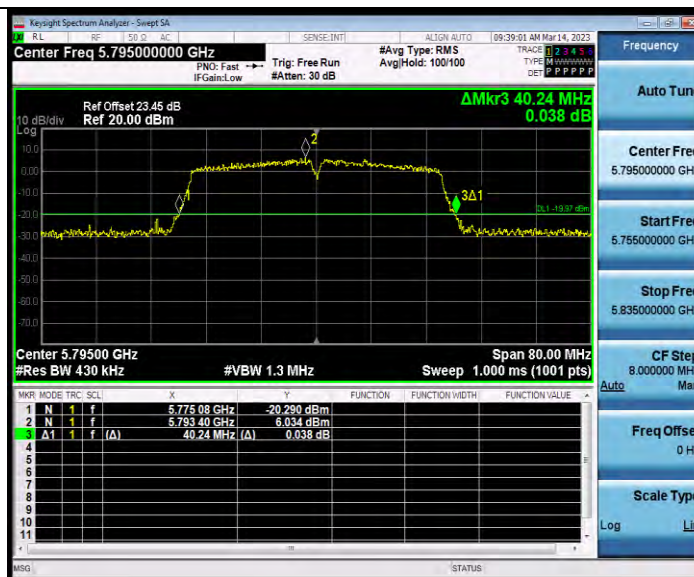


11AC40SISO_Ant1_5795

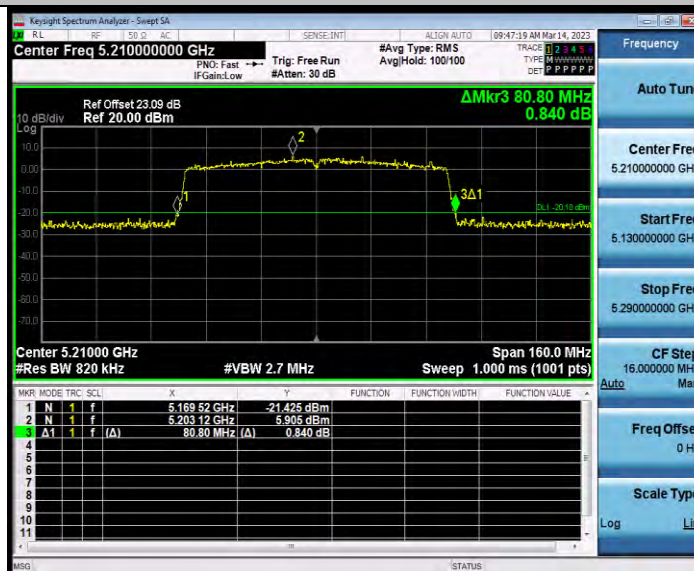


BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5290

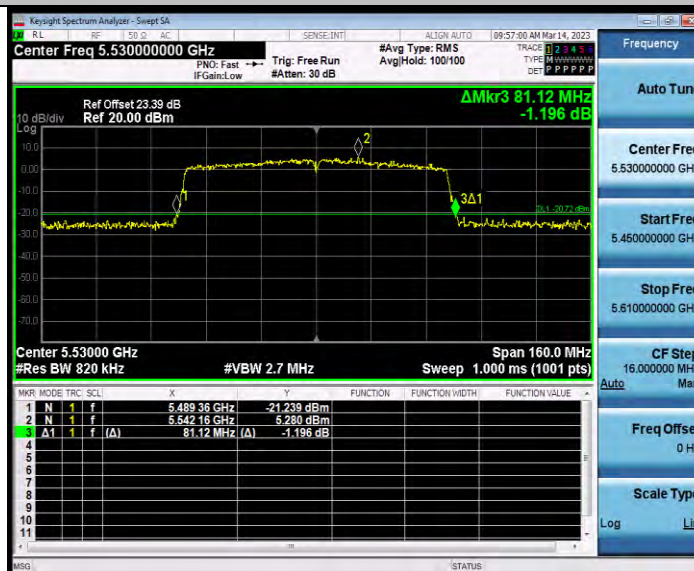


BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11AC80SISO_Ant1_5530

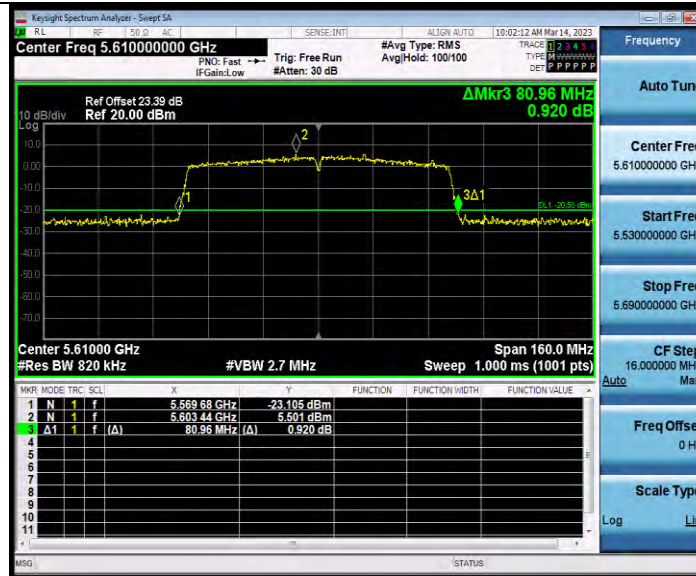


11AC80SISO_Ant1_5610



BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



11AC80SISO_Ant1_5690

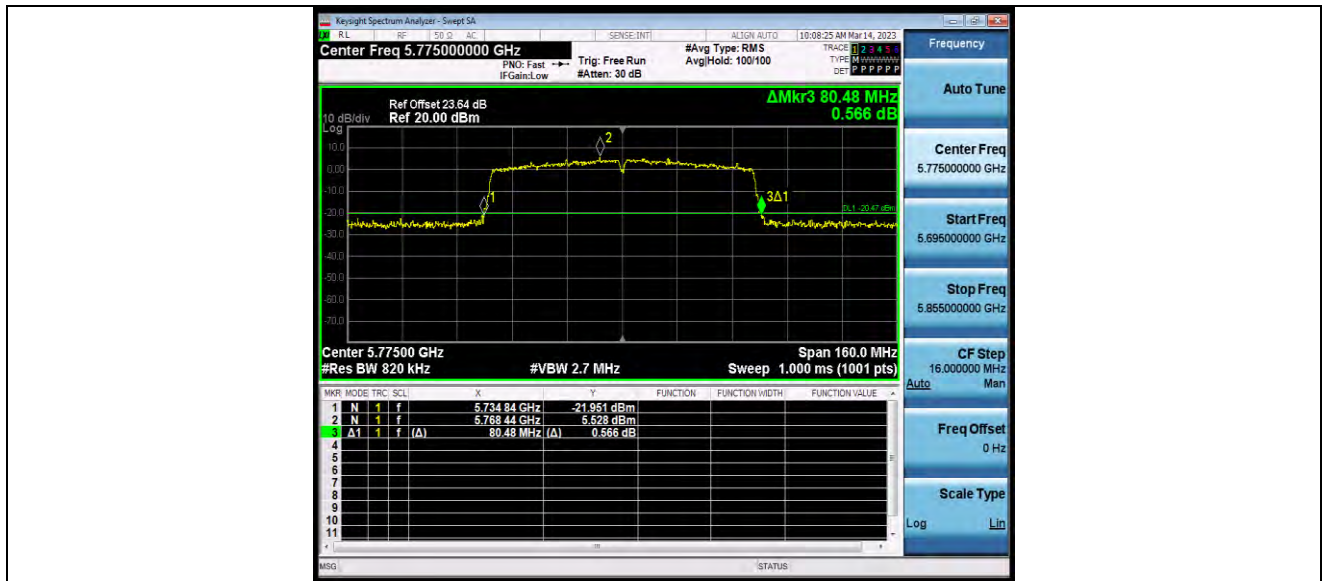


11AC80SISO_Ant1_5775



BUREAU
VERITAS

Test Report No.: W7L-P23030005RF03



OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.285	5171.3476	5188.6326	---	---
		5200	17.062	5191.4573	5208.5193	---	---
		5240	17.088	5231.4460	5248.5340	---	---
		5260	17.003	5251.4817	5268.4847	---	---
		5300	16.982	5291.5093	5308.4913	---	---
		5320	17.090	5311.4443	5328.5343	---	---
		5500	17.176	5491.3985	5508.5745	---	---
		5580	17.076	5571.4717	5588.5477	---	---
		5700	17.073	5691.4668	5708.5398	---	---
		5720	17.029	5711.4706	5728.4996	---	---
		5720_UNII-2C	13.529	5711.4706	5725	---	---
		5720_UNII-3	3.5	5725	5728.4996	---	---
		5745	17.062	5736.4776	5753.5396	---	---
		5785	17.091	5776.4458	5793.5368	---	---
		5825	17.051	5816.4626	5833.5136	---	---
11N20SISO	Ant1	5180	18.059	5170.9760	5189.0350	---	---
		5200	18.067	5190.9608	5209.0278	---	---
		5240	18.012	5230.9972	5249.0092	---	---
		5260	18.023	5251.0140	5269.0370	---	---
		5300	17.931	5291.0264	5308.9574	---	---
		5320	18.029	5310.9464	5328.9754	---	---
		5500	18.056	5490.9614	5509.0174	---	---
		5580	18.000	5571.0003	5589.0003	---	---
		5700	17.976	5691.0258	5709.0018	---	---
		5720	17.987	5711.0406	5729.0276	---	---
		5720_UNII-2C	13.959	5711.0406	5725	---	---
		5720_UNII-3	4.028	5725	5729.0276	---	---
		5745	17.945	5736.0309	5753.9759	---	---
		5785	17.980	5776.0092	5793.9892	---	---
		5825	17.931	5816.0242	5833.9552	---	---
11N40SISO	Ant1	5190	36.485	5171.8015	5208.2865	---	---



		5230	36.498	5211.7998	5248.2978	---	---
		5270	36.459	5251.8102	5288.2692	---	---
		5310	36.471	5291.7190	5328.1900	---	---
		5510	36.567	5491.7042	5528.2712	---	---
		5550	36.531	5531.7398	5568.2708	---	---
		5670	36.508	5651.8089	5688.3169	---	---
		5710	36.548	5691.8402	5728.3882	---	---
		5710_UNII-2C	33.16	5691.8402	5725	---	---
		5710_UNII-3	3.388	5725	5728.3882	---	---
		5755	36.527	5736.7832	5773.3102	---	---
		5795	36.504	5776.7198	5813.2238	---	---
11AC20SISO	Ant1	5180	17.910	5171.0588	5188.9688	---	---
		5200	17.900	5191.0589	5208.9589	---	---
		5240	17.879	5231.0548	5248.9338	---	---
		5260	17.912	5251.0356	5268.9476	---	---
		5300	17.850	5291.0686	5308.9186	---	---
		5320	17.859	5311.0647	5328.9237	---	---
		5500	17.940	5491.0326	5508.9726	---	---
		5580	17.839	5571.0617	5588.9007	---	---
		5700	17.916	5691.0767	5708.9927	---	---
		5720	17.879	5711.0896	5728.9686	---	---
		5720_UNII-2C	13.91	5711.0896	5725	---	---
		5720_UNII-3	3.969	5725	5728.9686	---	---
		5745	17.898	5736.0486	5753.9466	---	---
		5785	17.851	5776.0638	5793.9148	---	---
		5825	17.921	5816.0834	5834.0044	---	---
11AC40SISO	Ant1	5190	36.302	5171.8422	5208.1442	---	---
		5230	36.307	5211.8834	5248.1904	---	---
		5270	36.362	5251.8202	5288.1822	---	---
		5310	36.334	5291.8058	5328.1398	---	---
		5510	36.367	5491.7796	5528.1466	---	---
		5550	36.335	5531.8765	5568.2115	---	---
		5670	36.286	5651.9282	5688.2142	---	---
		5710	36.314	5691.9278	5728.2418	---	---
		5710_UNII-2C	33.072	5691.9278	5725	---	---



		5710_UNII-3	3.242	5725	5728.2418	---	---
		5755	36.274	5736.8748	5773.1488	---	---
		5795	36.390	5776.8239	5813.2139	---	---
11AC80SISO	Ant1	5210	75.423	5172.3415	5247.7645	---	---
		5290	75.351	5252.3129	5327.6639	---	---
		5530	75.433	5492.2956	5567.7286	---	---
		5610	75.517	5572.3029	5647.8199	---	---
		5690	75.380	5652.4207	5727.8007	---	---
		5690_UNII-2C	72.579	5652.4207	5725	---	---
		5690_UNII-3	2.801	5725	5727.8007	---	---
		5775	75.446	5737.3321	5812.7781	---	---

TEST GRAPHS

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240