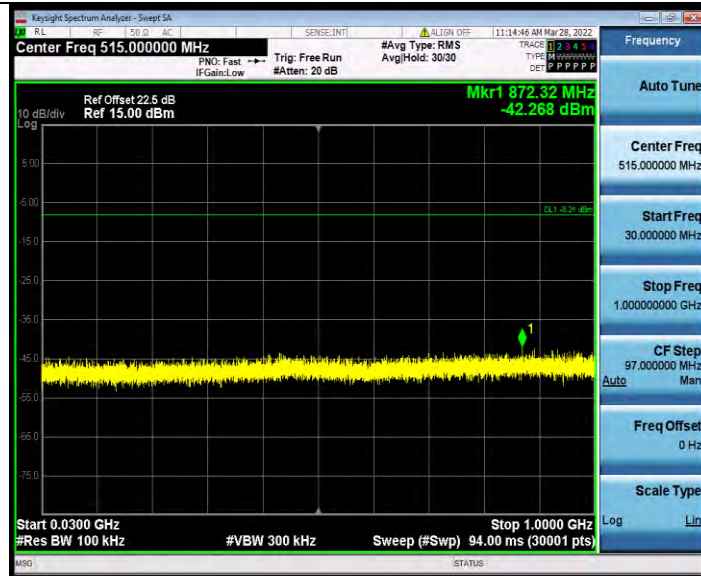




**BUREAU
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Test Report No.: W7L-P22030011RF02



11B-CDD_Ant0_2462_1000~26500



11B-CDD_Ant1_2462_30~1000

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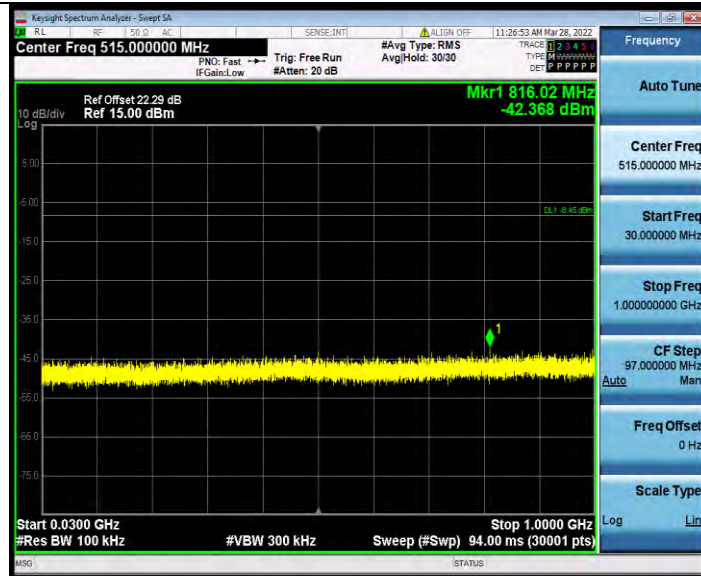
No.B102, Dazu Chuangxin Mansion, North of Beihuan
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Test Report No.: W7L-P22030011RF02



11B-CDD_Ant1_2462_1000~26500

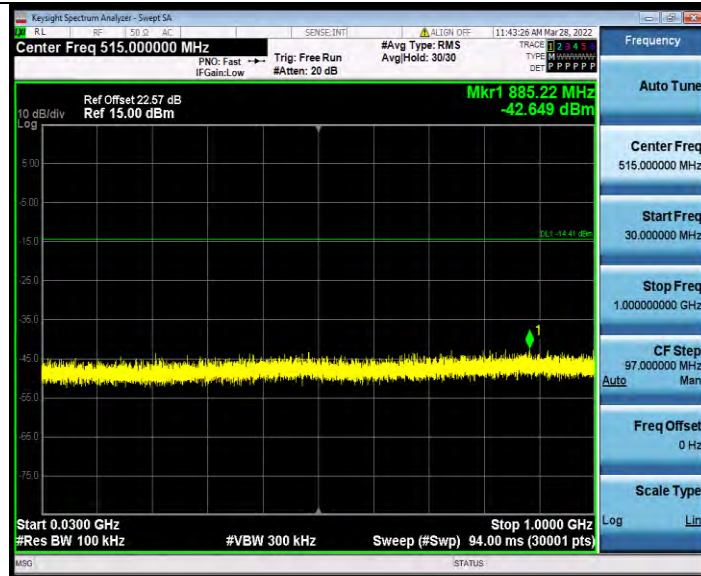


11G-CDD_Ant0_2412_30~1000



**BUREAU
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Test Report No.: W7L-P22030011RF02



11G-CDD_Ant0_2412_1000~26500

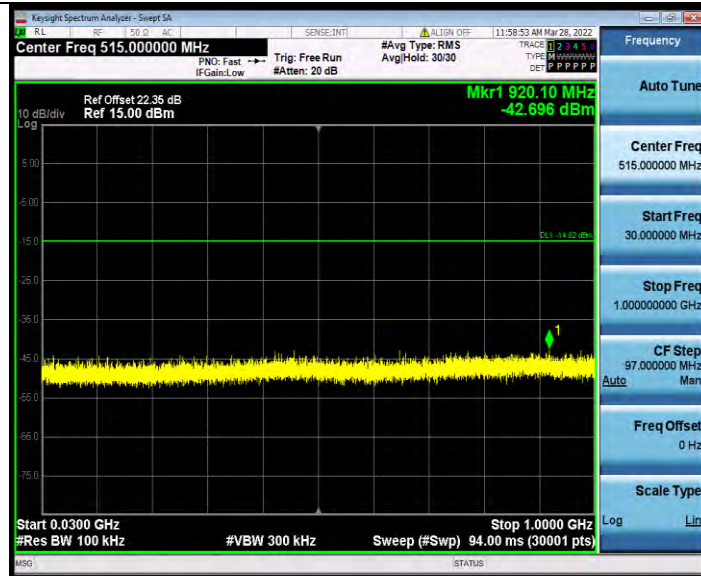


11G-CDD_Ant1_2412_30~1000



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Test Report No.: W7L-P22030011RF02



11G-CDD_Ant1_2412_1000~26500



11G-CDD_Ant0_2437_30~1000



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Test Report No.: W7L-P22030011RF02



11G-CDD_Ant0_2437_1000~26500



11G-CDD_Ant1_2437_30~1000

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11G-CDD_Ant1_2437_1000~26500



11G-CDD_Ant0_2462_30~1000

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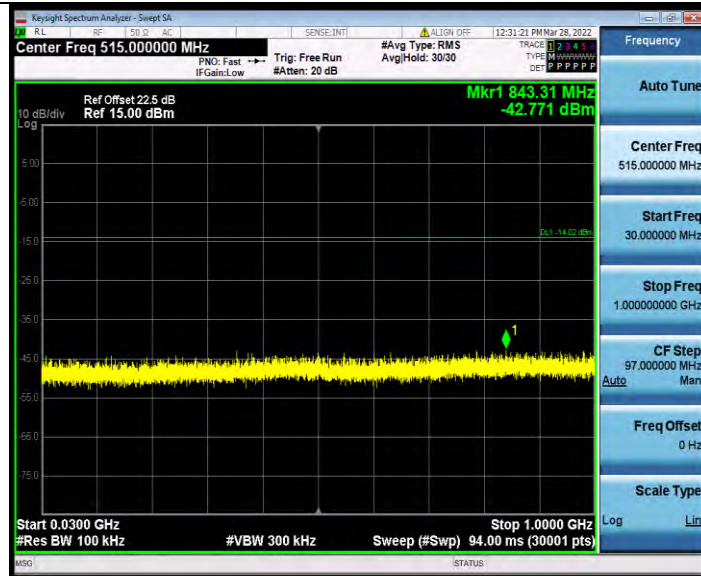
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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Test Report No.: W7L-P22030011RF02



11G-CDD_Ant0_2462_1000~26500

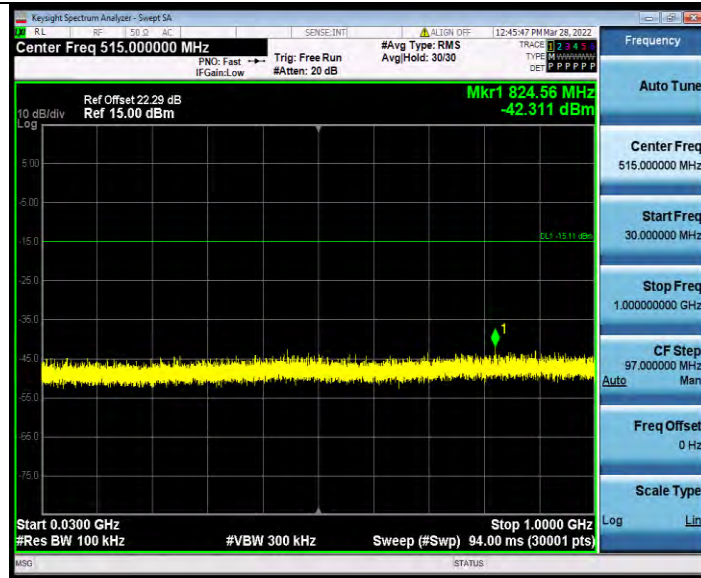


11G-CDD_Ant1_2462_30~1000



**BUREAU
VERITAS**

Test Report No.: W7L-P22030011RF02



11G-CDD_Ant1_2462_1000~26500

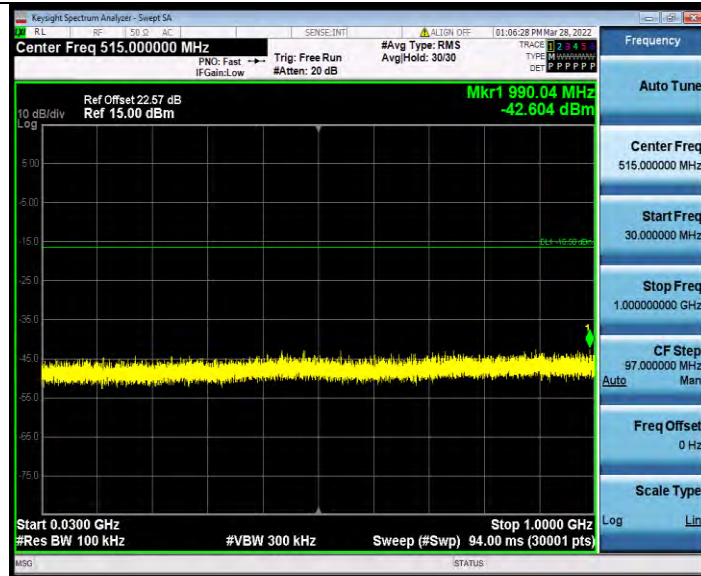


11N20MIMO_Ant0_2412_30~1000



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VERITAS**

Test Report No.: W7L-P22030011RF02



11N20MIMO_Ant0_2412_1000~26500

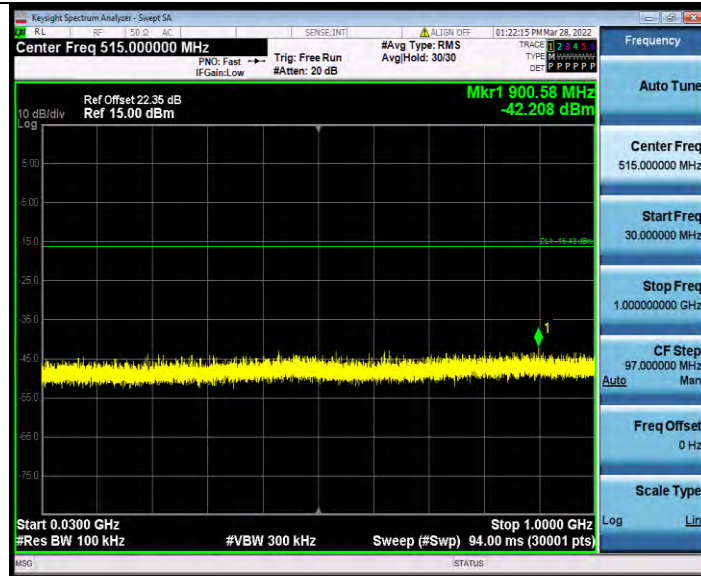


11N20MIMO_Ant1_2412_30~1000



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Test Report No.: W7L-P22030011RF02



11N20MIMO_Ant1_2412_1000~26500



11N20MIMO_Ant0_2437_30~1000



**BUREAU
VERITAS**

Test Report No.: W7L-P22030011RF02



11N20MIMO_Ant0_2437_1000~26500

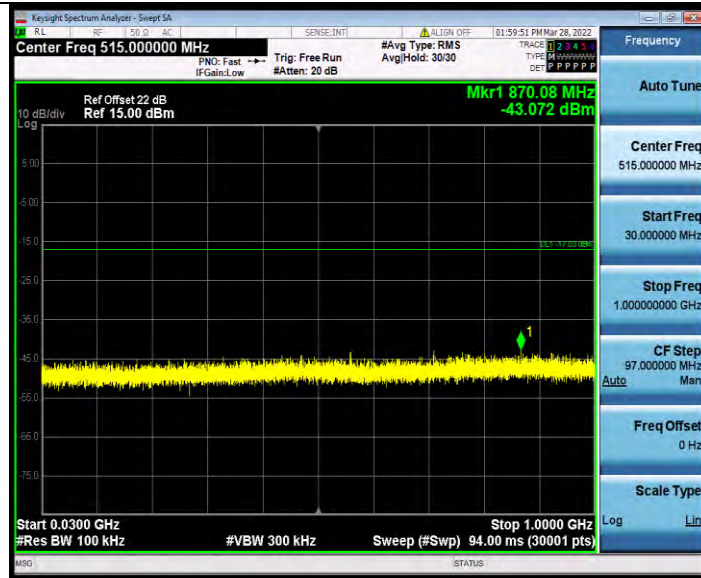


11N20MIMO_Ant1_2437_30~1000



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Test Report No.: W7L-P22030011RF02



11N20MIMO_Ant1_2437_1000~26500

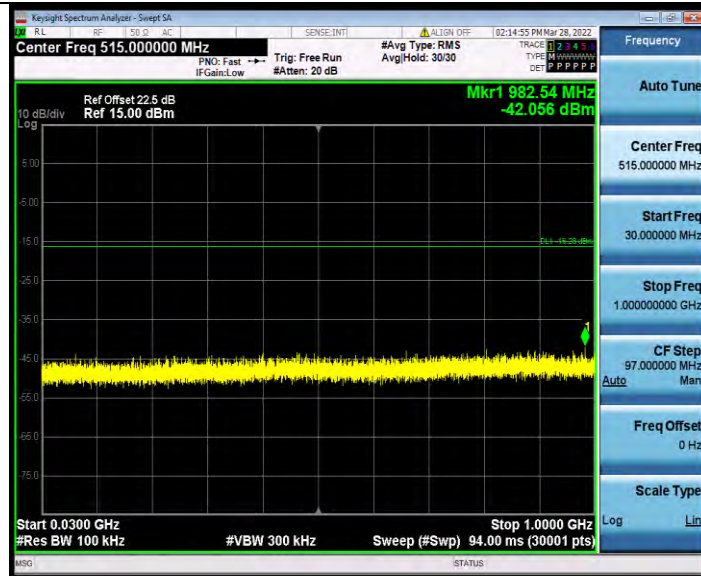


11N20MIMO_Ant0_2462_30~1000



**BUREAU
VERITAS**

Test Report No.: W7L-P22030011RF02



11N20MIMO_Ant0_2462_1000~26500

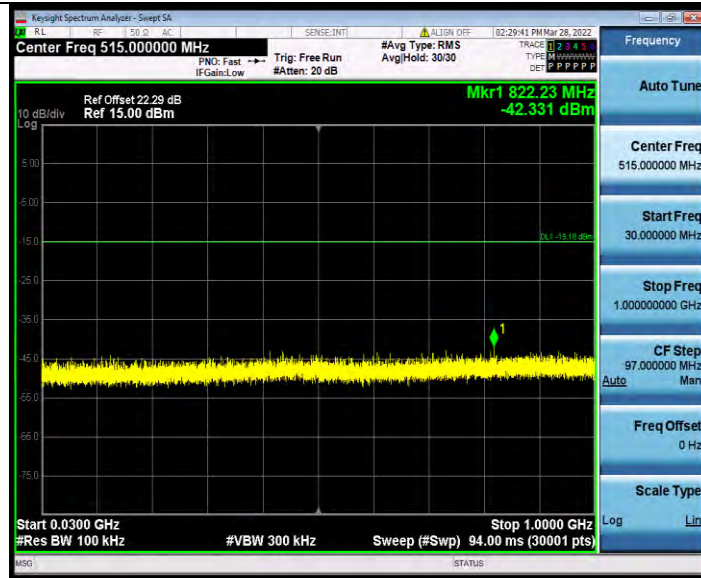


11N20MIMO_Ant1_2462_30~1000



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Test Report No.: W7L-P22030011RF02



11N20MIMO_Ant1_2462_1000~26500

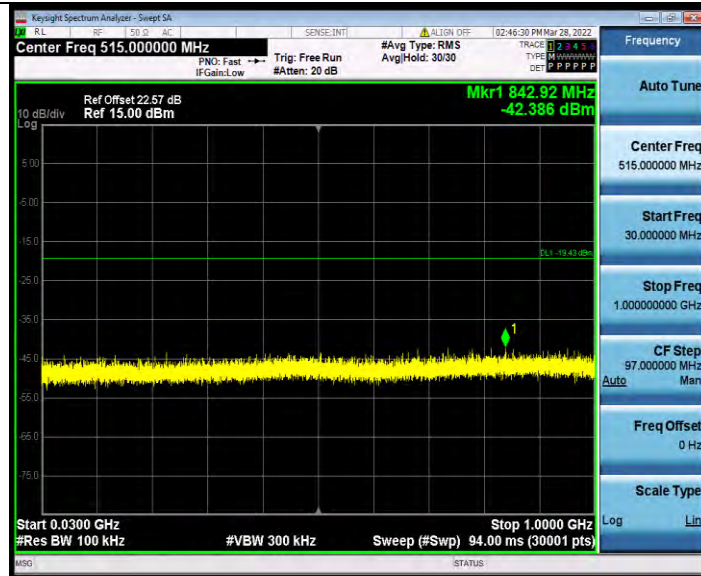


11N40MIMO_Ant0_2422_30~1000



**BUREAU
VERITAS**

Test Report No.: W7L-P22030011RF02



11N40MIMO_Ant0_2422_1000~26500

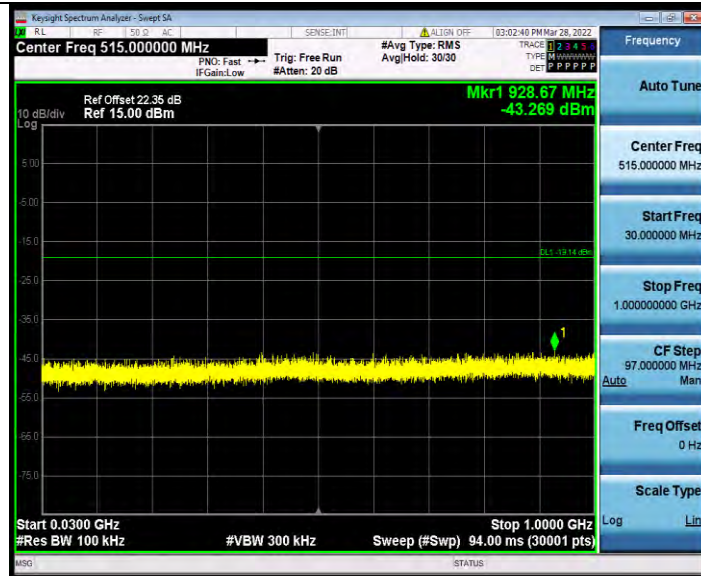


11N40MIMO_Ant1_2422_30~1000



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VERITAS**

Test Report No.: W7L-P22030011RF02



11N40MIMO_Ant1_2422_1000~26500

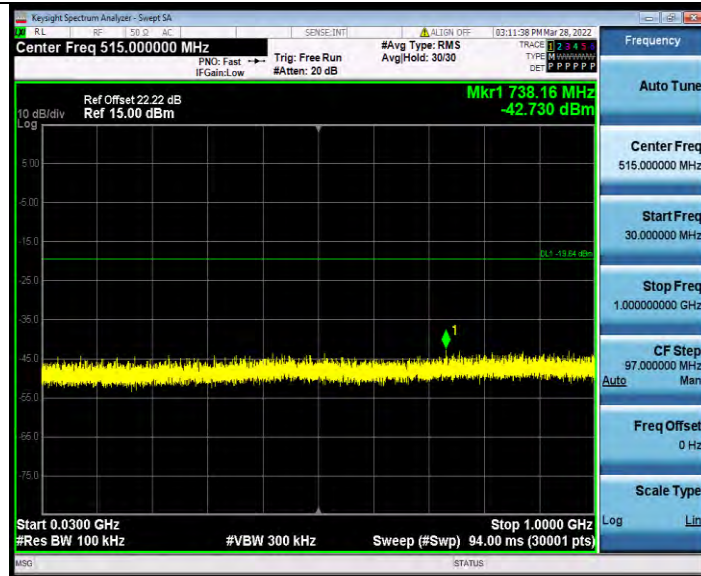


11N40MIMO_Ant0_2437_30~1000



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VERITAS**

Test Report No.: W7L-P22030011RF02



11N40MIMO_Ant0_2437_1000~26500

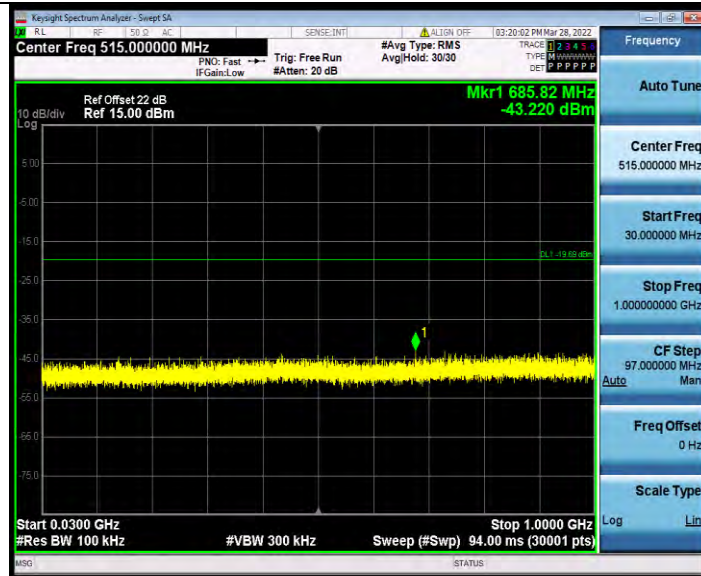


11N40MIMO_Ant1_2437_30~1000



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Test Report No.: W7L-P22030011RF02



11N40MIMO_Ant1_2437_1000~26500



11N40MIMO_Ant0_2452_30~1000



BUREAU VERITAS

Test Report No.: W7L-P22030011RF02



11N40MIMO_Ant0_2452_1000~26500

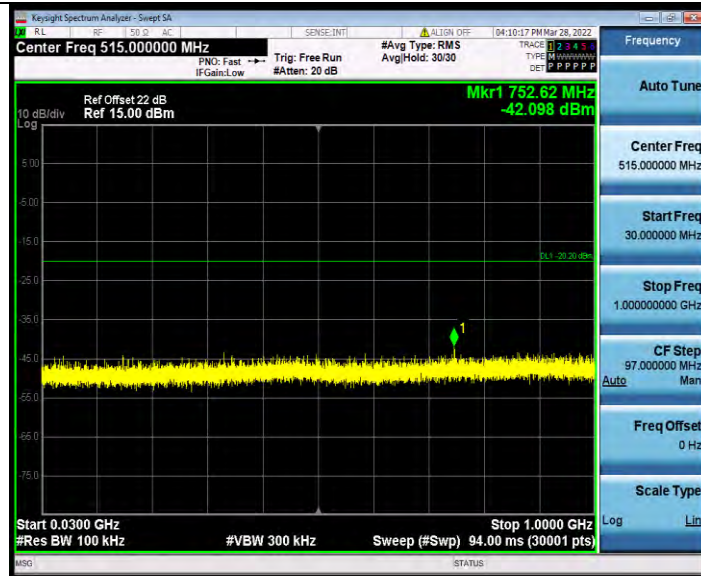


11N40MIMO_Ant1_2452_30~1000



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Test Report No.: W7L-P22030011RF02



11N40MIMO_Ant1_2452_1000~26500



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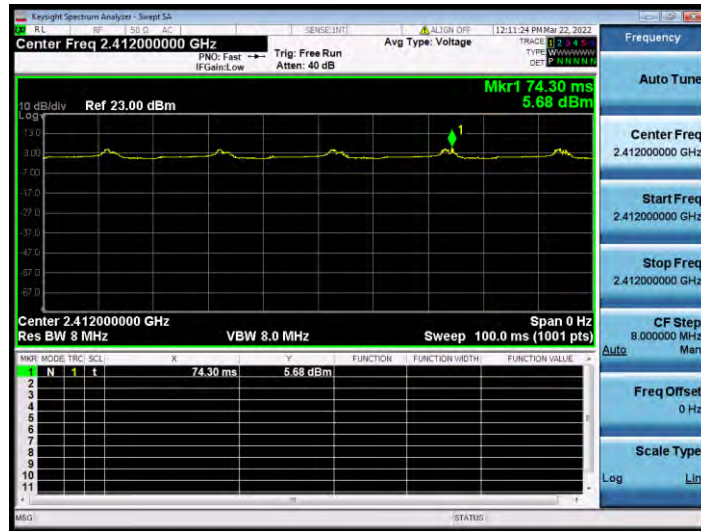
DUTY CYCLE TEST RESULT

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B-CDD	Ant0+1	2412	100.00	100.00	100.00
11G-CDD	Ant0+1	2412	100.00	100.00	100.00
11N20MIMO	Ant0+1	2412	100.00	100.00	100.00
11N40MIMO	Ant0+1	2422	100.00	100.00	100.00

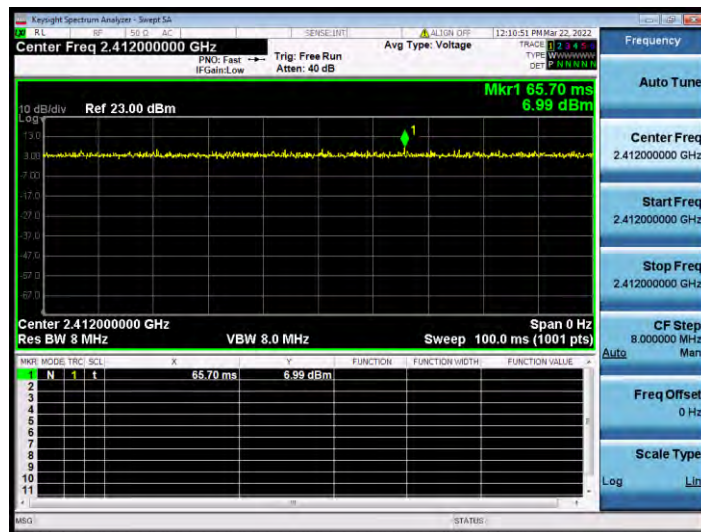


TEST GRAPHS

11B_Ant0+1_2412



11G_Ant0+1_2412

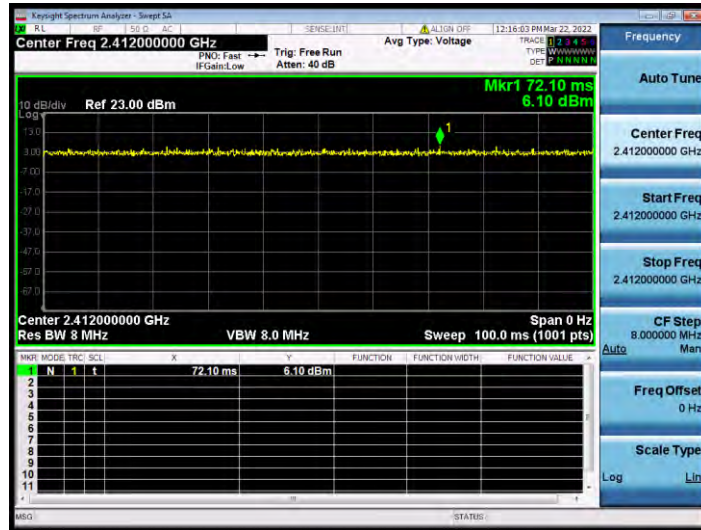


11N20SISO_Ant0+1_2412

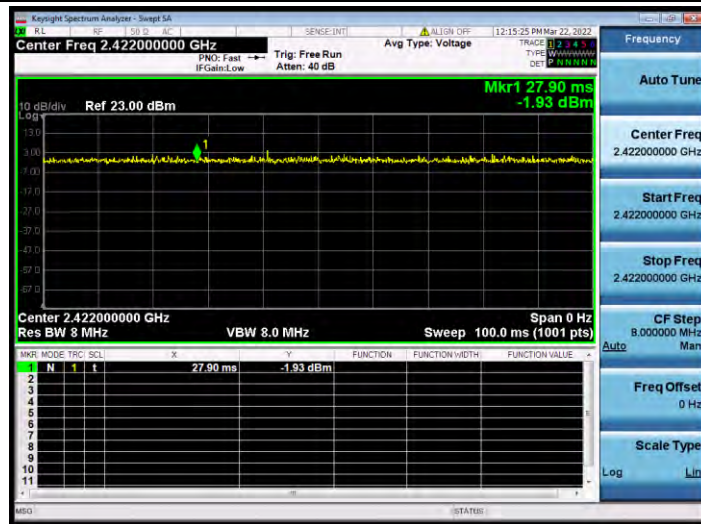


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Test Report No.: W7L-P22030011RF02



11N40SISO_Ant0+1_2412



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7 Appendix 2 BLE

DTS BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_125K	Ant1	2402	0.688	2401.656	2402.344	0.5	PASS
		2440	0.684	2439.656	2440.340	0.5	PASS
		2480	0.684	2479.656	2480.340	0.5	PASS
BLE_1M	Ant1	2402	0.696	2401.648	2402.344	0.5	PASS
		2440	0.656	2439.672	2440.328	0.5	PASS
		2480	0.656	2479.672	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.156	2401.440	2402.596	0.5	PASS
		2440	1.248	2439.352	2440.600	0.5	PASS
		2480	1.252	2479.344	2480.596	0.5	PASS
BLE_500K	Ant1	2402	0.660	2401.676	2402.336	0.5	PASS
		2440	0.664	2439.676	2440.340	0.5	PASS
		2480	0.672	2479.672	2480.344	0.5	PASS



TEST GRAPHS

BLE_125K_Ant1_2402



BLE_125K_Ant1_2440

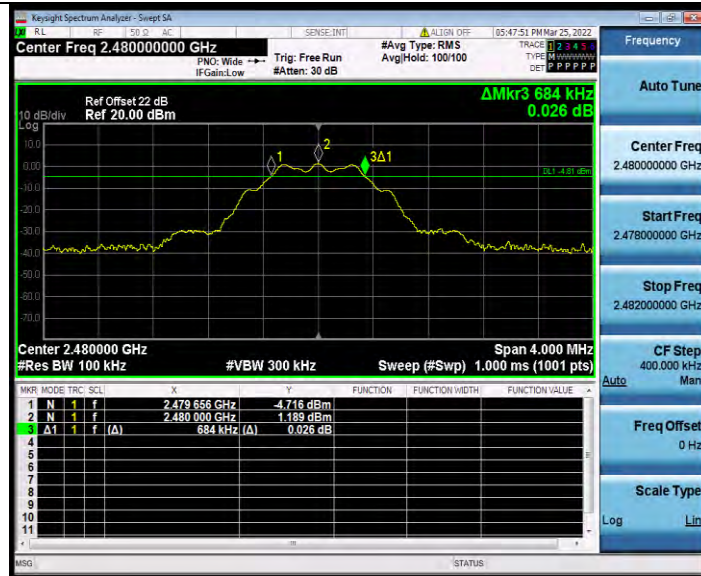


BLE_125K_Ant1_2480



BUREAU VERITAS

Test Report No.: W7L-P22030011RF02



BLE_1M_Ant1_2402

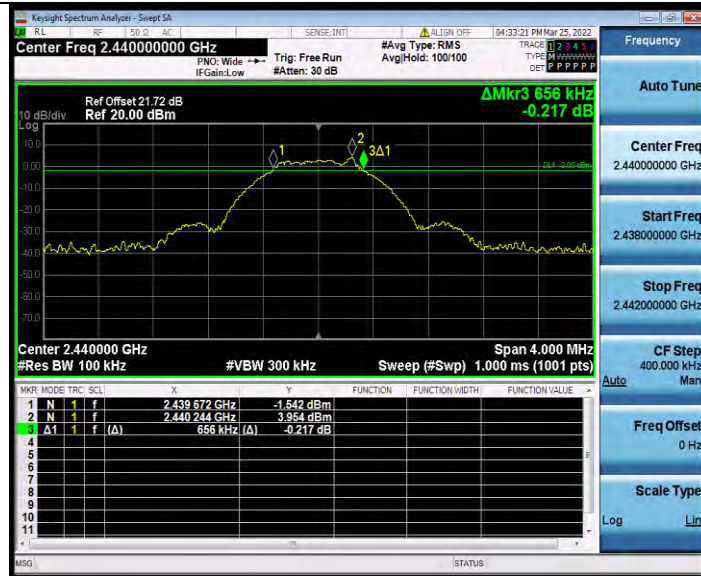


BLE_1M_Ant1_2440



BUREAU VERITAS

Test Report No.: W7L-P22030011RF02



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BUREAU VERITAS

Test Report No.: W7L-P22030011RF02



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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Test Report No.: W7L-P22030011RF02



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



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Test Report No.: W7L-P22030011RF02



BLE_500K_Ant1_2480



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OCCUPIED CHANNEL BANDWIDTH TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_125K	Ant1	2402	1.0530	2401.473	2402.526	---	---
		2440	1.0479	2439.474	2440.522	---	---
		2480	1.0510	2479.472	2480.523	---	---
BLE_1M	Ant1	2402	1.0384	2401.484	2402.523	---	---
		2440	1.0346	2439.488	2440.523	---	---
		2480	1.0336	2479.485	2480.518	---	---
BLE_2M	Ant1	2402	2.0677	2400.980	2403.048	---	---
		2440	2.0622	2438.986	2441.048	---	---
		2480	2.0631	2478.981	2481.044	---	---
BLE_500K	Ant1	2402	1.0249	2401.487	2402.512	---	---
		2440	1.0305	2439.484	2440.514	---	---
		2480	1.0232	2479.484	2480.508	---	---



BUREAU VERITAS

Test Report No.: W7L-P22030011RF02

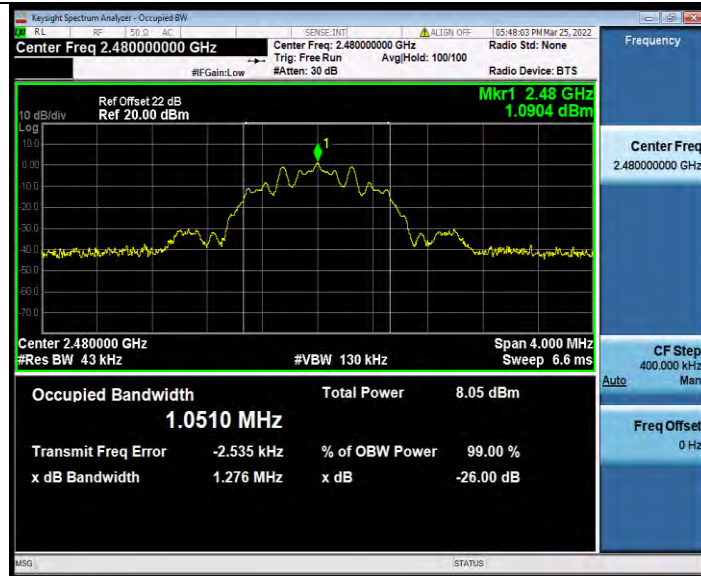
TEST GRAPHS



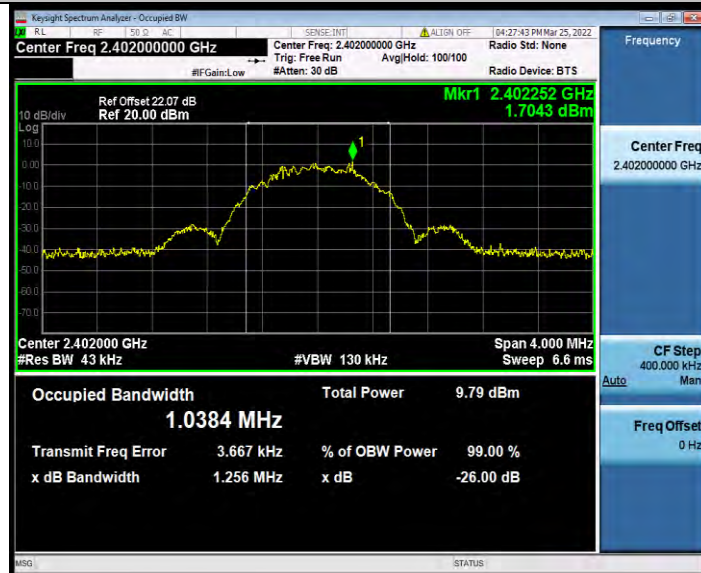


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Test Report No.: W7L-P22030011RF02



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



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Test Report No.: W7L-P22030011RF02



BLE_1M_Ant1_2480

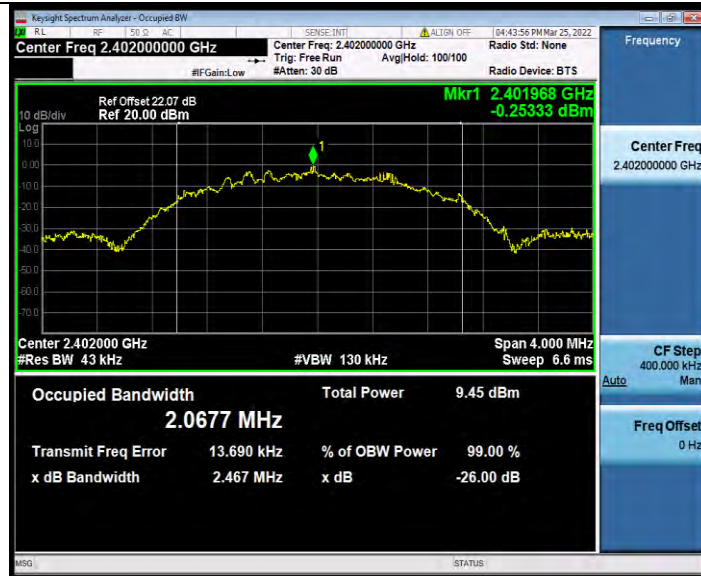


BLE_2M_Ant1_2402



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Test Report No.: W7L-P22030011RF02



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

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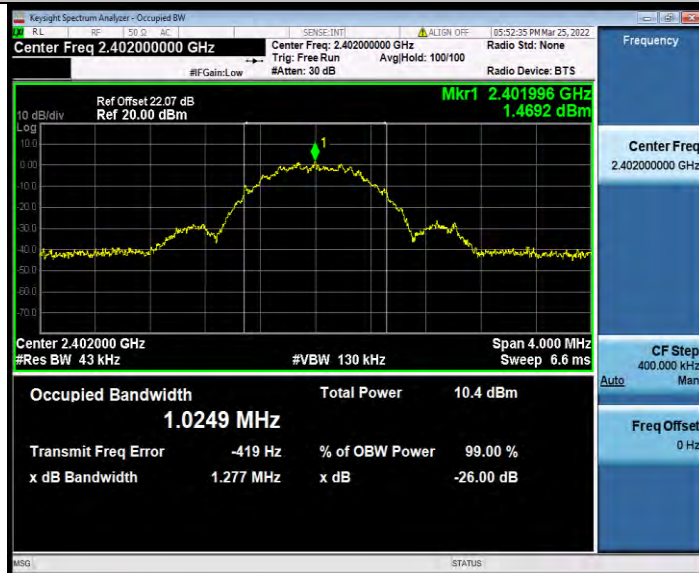


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VERITAS**

Test Report No.: W7L-P22030011RF02



BLE_500K_Ant1_2402

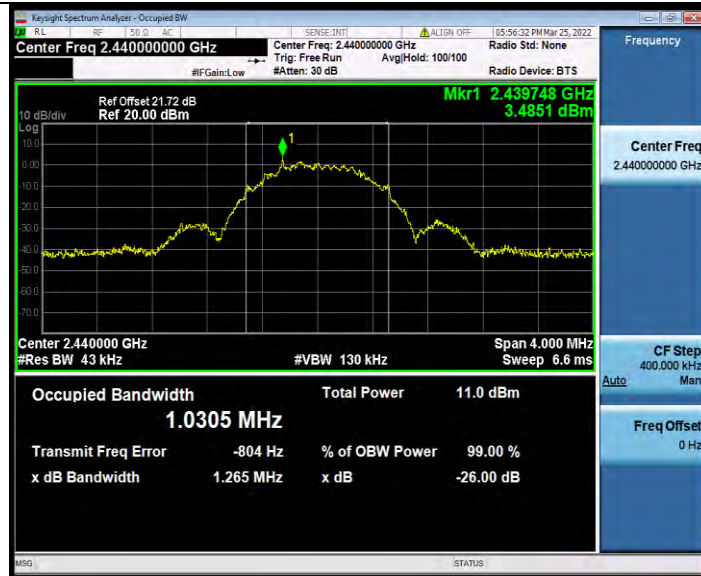


BLE_500K_Ant1_2440

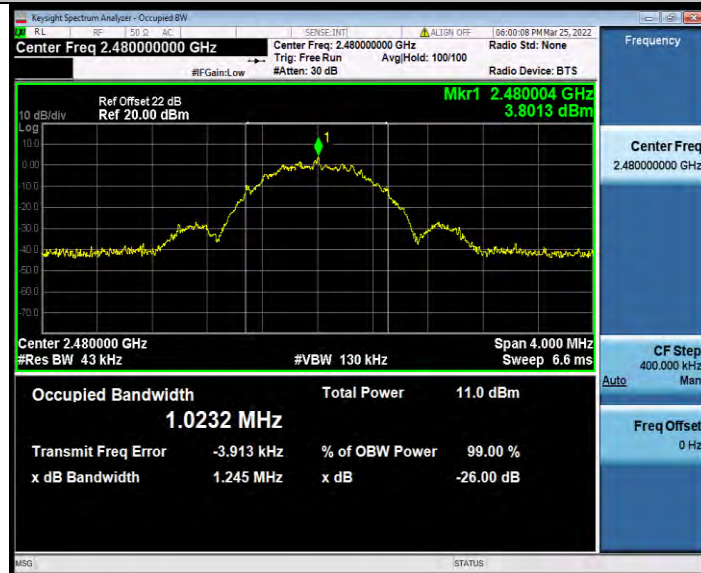


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Test Report No.: W7L-P22030011RF02



BLE_500K_Ant1_2480



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MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT PEAK POWER

TestMode	Antenna	Channel	Peak power [dBm]	Peak power [mw]	Limit [dBm]	Verdict	Power Setting
BLE_1M	Ant1	2402	3.63	2.31	≤30	PASS	Default
		2440	4.56	2.86	≤30	PASS	Default
		2480	4.29	2.69	≤30	PASS	Default
BLE_2M	Ant1	2402	3.63	2.31	≤30	PASS	Default
		2440	4.61	2.89	≤30	PASS	Default
		2480	4.33	2.71	≤30	PASS	Default
BLE_125k	Ant1	2402	3.63	2.31	≤30	PASS	Default
		2440	4.61	2.89	≤30	PASS	Default
		2480	4.30	2.69	≤30	PASS	Default
BLE_500K	Ant1	2402	3.61	2.30	≤30	PASS	Default
		2440	4.56	2.86	≤30	PASS	Default
		2480	4.27	2.67	≤30	PASS	Default

Test Result Average Power

TestMode	Antenna	Channel	Average power [dBm]	Limit [dBm]	Verdict	Power Setting
BLE_1M	Ant1	2402	2.71	/	PASS	Default
		2440	3.89	/	PASS	Default
		2480	3.64	/	PASS	Default
BLE_2M	Ant1	2402	1.51	/	PASS	Default
		2440	2.44	/	PASS	Default
		2480	2.25	/	PASS	Default
BLE_125k	Ant1	2402	2.93	/	PASS	Default
		2440	3.93	/	PASS	Default
		2480	3.65	/	PASS	Default
BLE_500K	Ant1	2402	3.33	/	PASS	Default
		2440	4.34	/	PASS	Default
		2480	4.07	/	PASS	Default



MAXIMUM POWER SPECTRAL DENSITY TEST RESULT

TestMode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_125K	Ant1	2402	-2.47	≤8.00	PASS
		2440	-1.34	≤8.00	PASS
		2480	-1.61	≤8.00	PASS
BLE_1M	Ant1	2402	-12.44	≤8.00	PASS
		2440	-11.98	≤8.00	PASS
		2480	-11.36	≤8.00	PASS
BLE_2M	Ant1	2402	-14.73	≤8.00	PASS
		2440	-14.33	≤8.00	PASS
		2480	-13.65	≤8.00	PASS
BLE_500K	Ant1	2402	-2.08	≤8.00	PASS
		2440	-1.33	≤8.00	PASS
		2480	-1.68	≤8.00	PASS



TEST GRAPHS





**BUREAU
VERITAS**

Test Report No.: W7L-P22030011RF02



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



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Test Report No.: W7L-P22030011RF02



BLE_1M_Ant1_2480

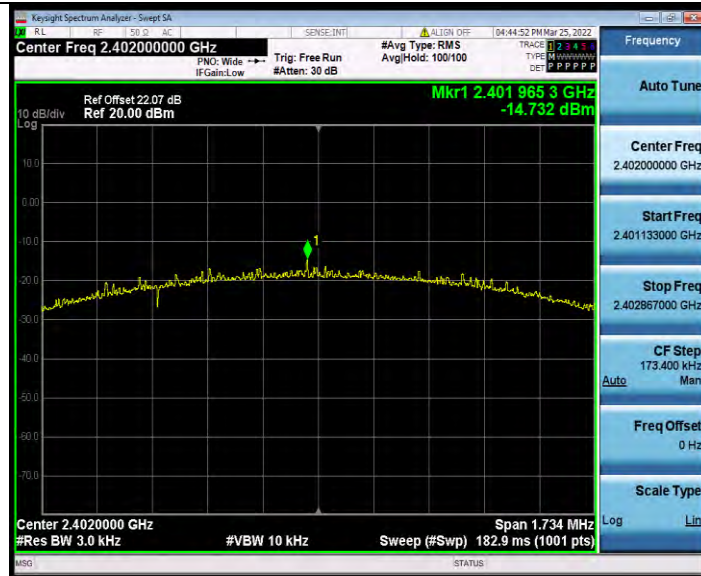


BLE_2M_Ant1_2402



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VERITAS**

Test Report No.: W7L-P22030011RF02



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

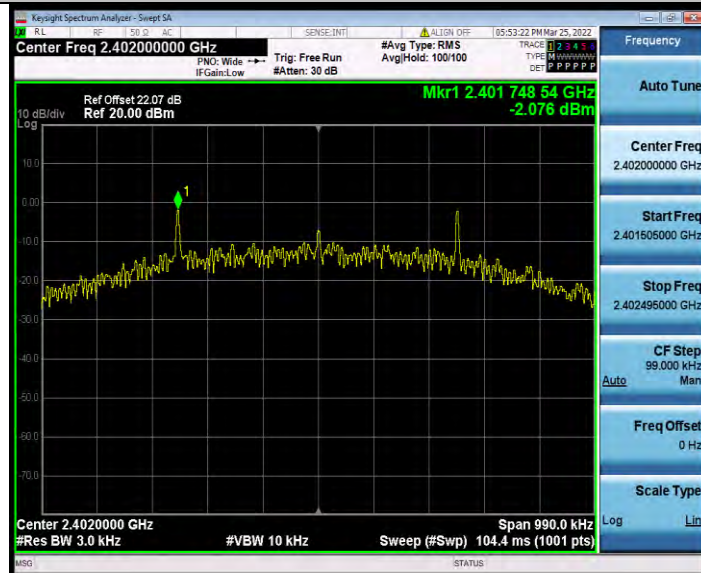


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VERITAS**

Test Report No.: W7L-P22030011RF02



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440

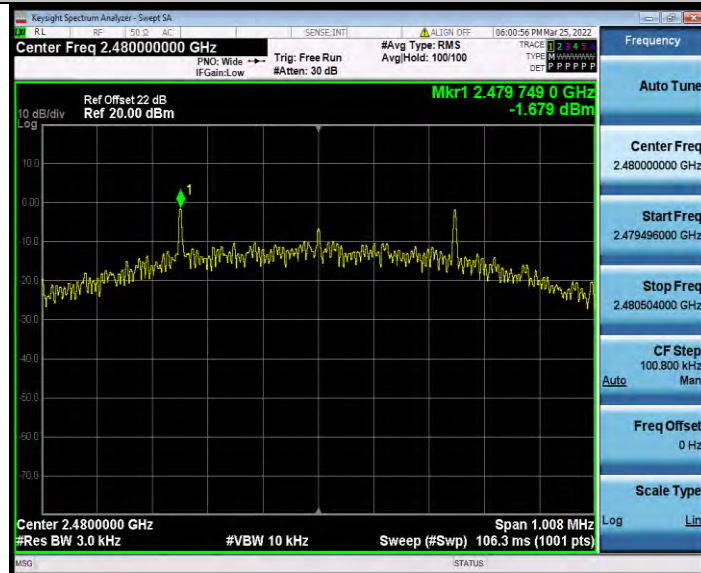


**BUREAU
VERITAS**

Test Report No.: W7L-P22030011RF02



BLE_500K_Ant1_2480





REFERENCE LEVEL MEASUREMENT

TEST RESULT

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_125K	Ant1	2402	2402.00	0.34
		2440	2440.00	1.46
		2480	2480.00	1.21
BLE_1M	Ant1	2402	2402.25	3.57
		2440	2440.25	3.98
		2480	2480.26	4.44
BLE_2M	Ant1	2402	2401.99	2.75
		2440	2440.54	1.78
		2480	2480.47	3.08
BLE_500K	Ant1	2402	2401.76	3.87
		2440	2439.99	4.37
		2480	2480.00	4.06



TEST GRAPHS





**BUREAU
VERITAS**

Test Report No.: W7L-P22030011RF02



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



**BUREAU
VERITAS**

Test Report No.: W7L-P22030011RF02



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



**BUREAU
VERITAS**

Test Report No.: W7L-P22030011RF02



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



**BUREAU
VERITAS**

Test Report No.: W7L-P22030011RF02



BLE_500K_Ant1_2480





BAND EDGE MEASUREMENTS

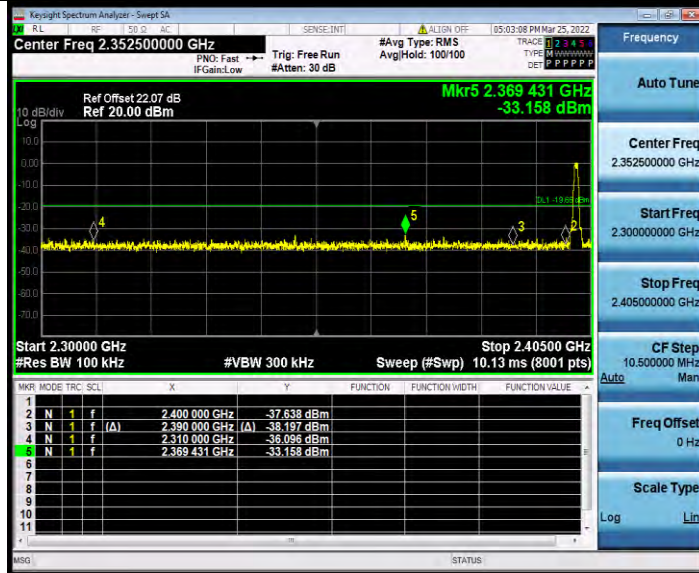
TEST RESULT

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_125K	Ant1	Low	2402	0.34	-33.16	≤-19.66	PASS
		High	2480	1.21	-33.31	≤-18.79	PASS
BLE_1M	Ant1	Low	2402	3.57	-34.01	≤-16.43	PASS
		High	2480	4.44	-33.36	≤-15.56	PASS
BLE_2M	Ant1	Low	2402	2.75	-30.17	≤-17.25	PASS
		High	2480	3.08	-34.26	≤-16.92	PASS
BLE_500K	Ant1	Low	2402	3.87	-33.44	≤-16.13	PASS
		High	2480	4.06	-33.92	≤-15.94	PASS

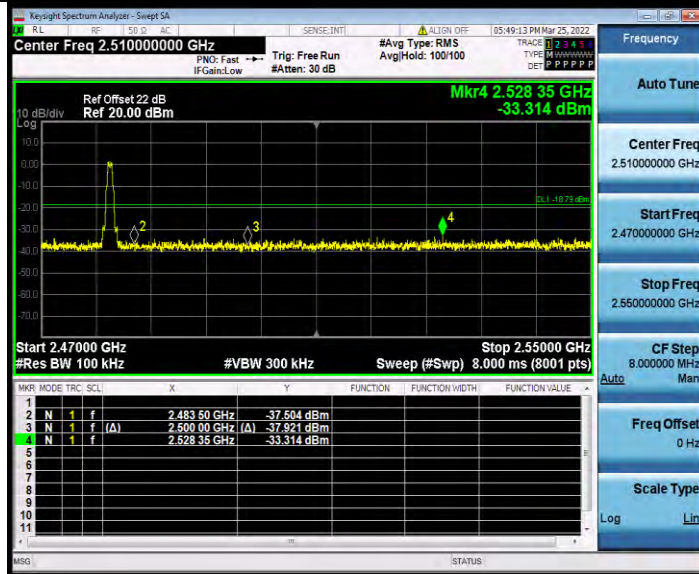


TEST GRAPHS

BLE_125K_Ant1_Low_2402



BLE_125K_Ant1_High_2480

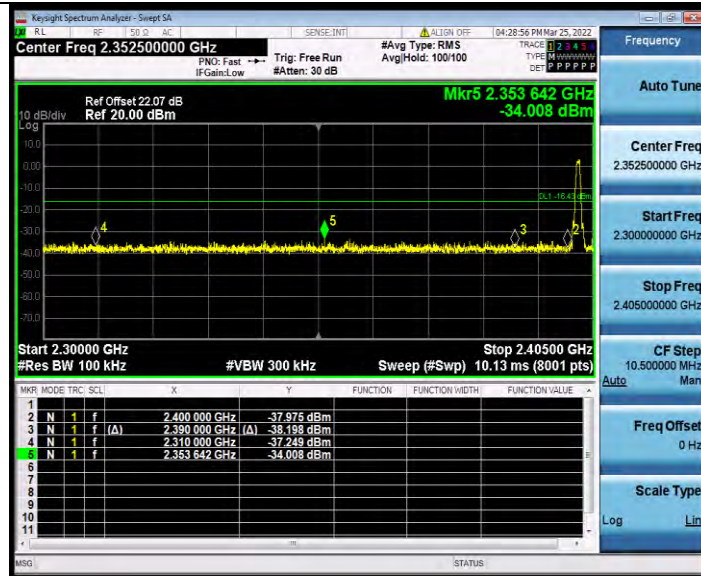


BLE_1M_Ant1_Low_2402

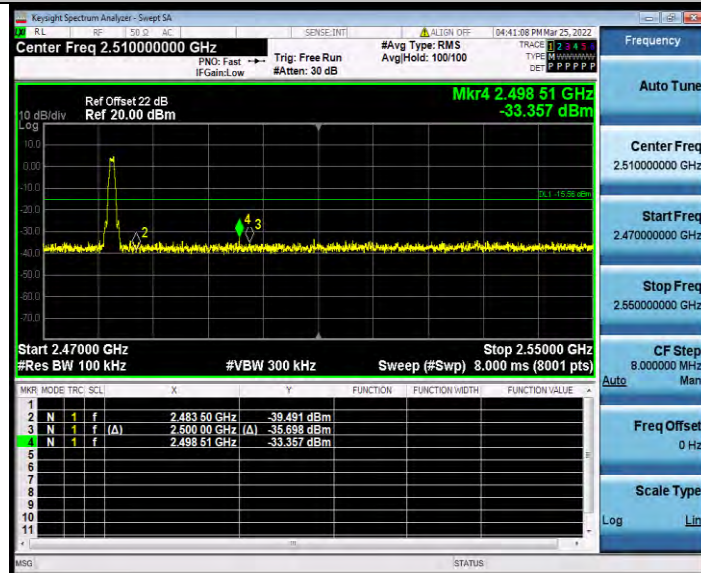


BUREAU VERITAS

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BLE_1M_Ant1_High_2480

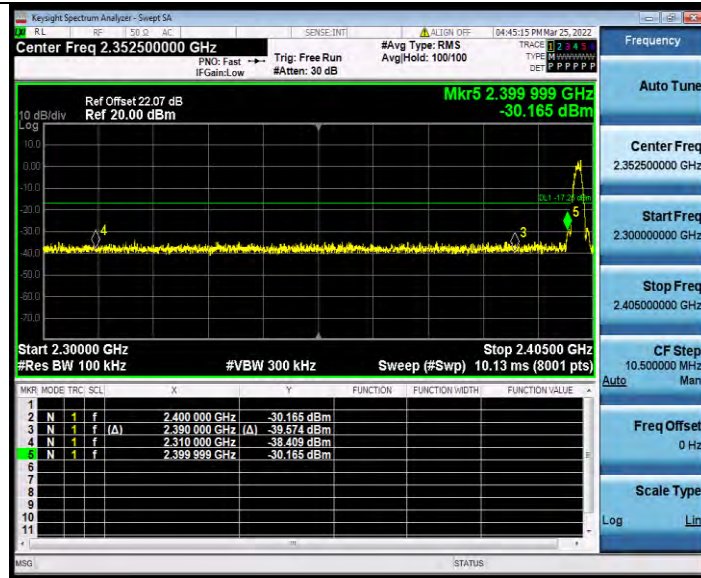


BLE_2M_Ant1_Low_2402

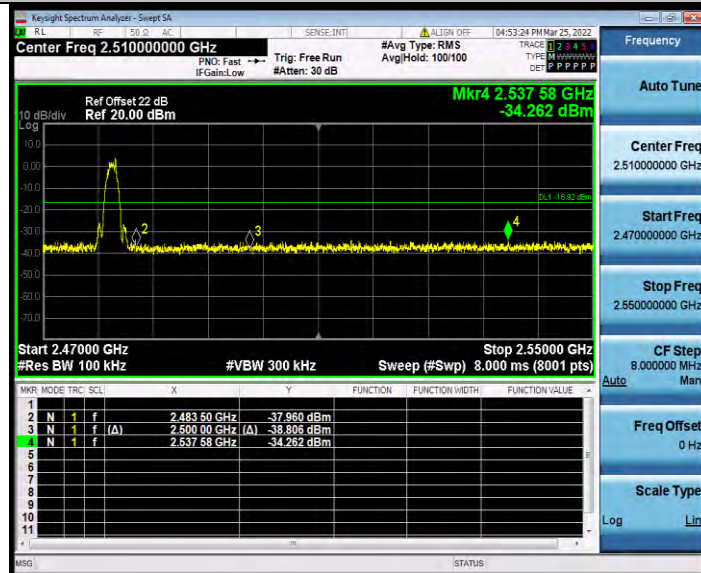


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VERITAS**

Test Report No.: W7L-P22030011RF02



BLE_2M_Ant1_High_2480

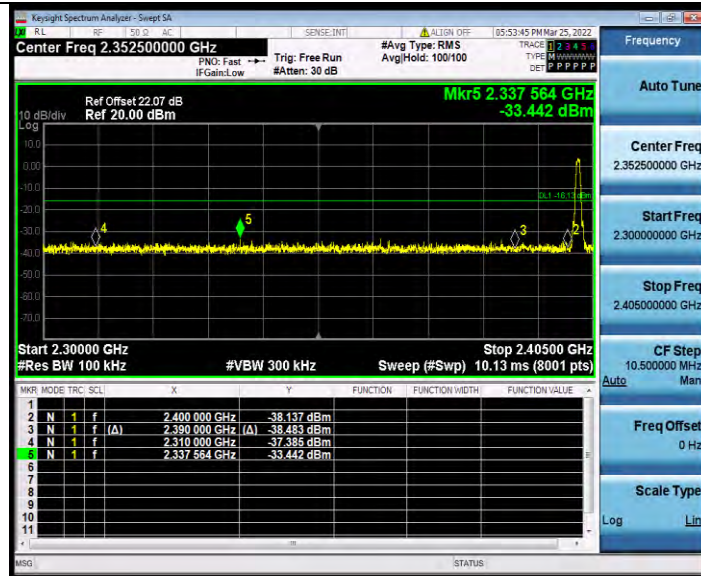


BLE_500K_Ant1_Low_2402

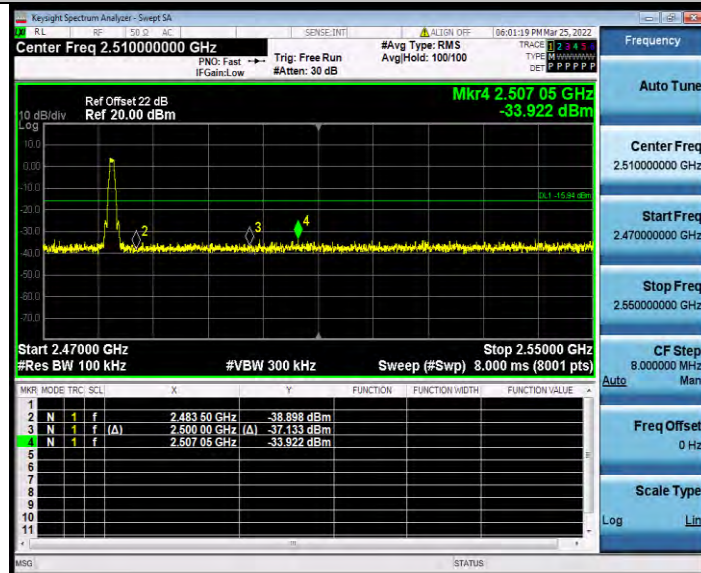


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VERITAS**

Test Report No.: W7L-P22030011RF02



BLE_500K_Ant1_High_2480



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CONDUCTED SPURIOUS EMISSION TEST RESULT

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_125K	Ant1	2402	30~1000	0.34	-42.36	≤-19.66	PASS
			1000~26500	0.34	-26.91	≤-19.66	PASS
		2440	30~1000	1.46	-42.77	≤-18.54	PASS
			1000~26500	1.46	-27.39	≤-18.54	PASS
		2480	30~1000	1.21	-41.68	≤-18.79	PASS
			1000~26500	1.21	-27.21	≤-18.79	PASS
BLE_1M	Ant1	2402	30~1000	3.57	-43.43	≤-16.43	PASS
			1000~26500	3.57	-26.27	≤-16.43	PASS
		2440	30~1000	3.98	-43.59	≤-16.02	PASS
			1000~26500	3.98	-27.02	≤-16.02	PASS
		2480	30~1000	4.44	-41.52	≤-15.56	PASS
			1000~26500	4.44	-26.95	≤-15.56	PASS
BLE_2M	Ant1	2402	30~1000	2.75	-42.5	≤-17.25	PASS
			1000~26500	2.75	-26.64	≤-17.25	PASS
		2440	30~1000	1.78	-42.87	≤-18.22	PASS
			1000~26500	1.78	-26.71	≤-18.22	PASS
		2480	30~1000	3.08	-42.61	≤-16.92	PASS
			1000~26500	3.08	-26.87	≤-16.92	PASS
BLE_500K	Ant1	2402	30~1000	3.87	-42.38	≤-16.13	PASS
			1000~26500	3.87	-26.72	≤-16.13	PASS
		2440	30~1000	4.37	-42.98	≤-15.63	PASS
			1000~26500	4.37	-27.21	≤-15.63	PASS
		2480	30~1000	4.06	-43.11	≤-15.94	PASS
			1000~26500	4.06	-26.83	≤-15.94	PASS



TEST GRAPHS

