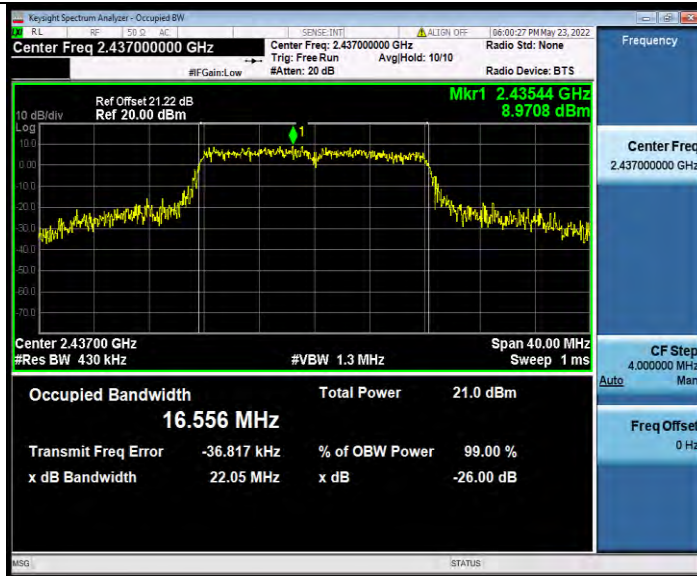


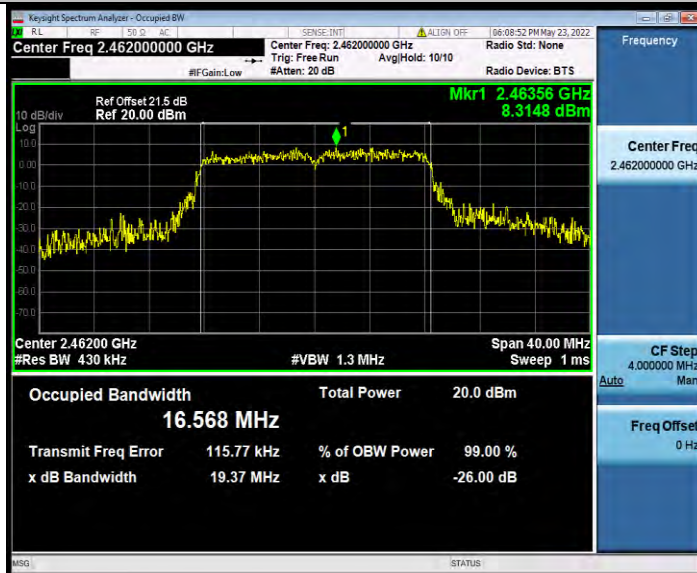


BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



11G_Ant1_2462

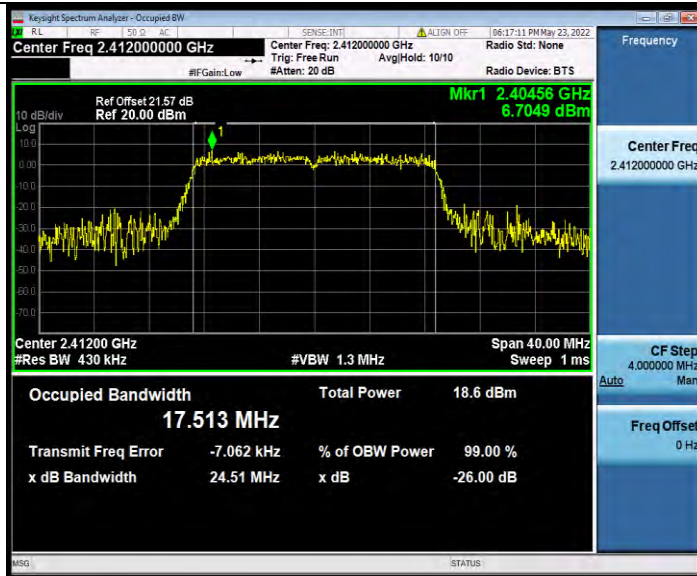


11N20SISO_Ant1_2412

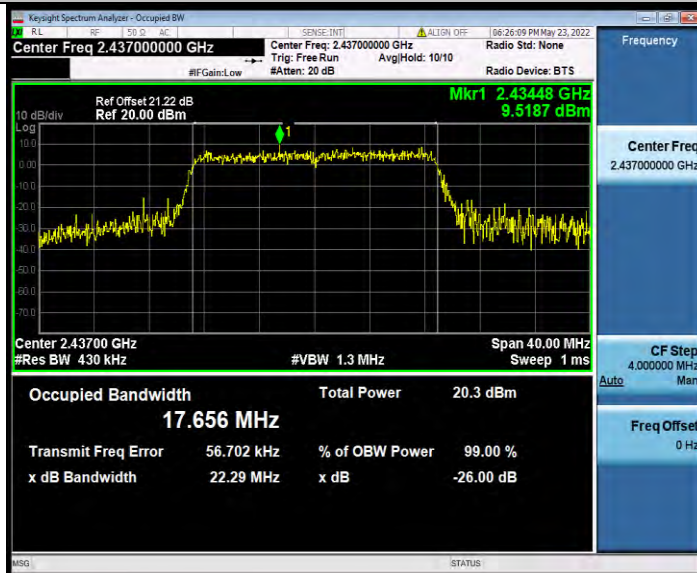


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Test Report No.: W7L-P22050002RF02



11N20SISO_Ant1_2437

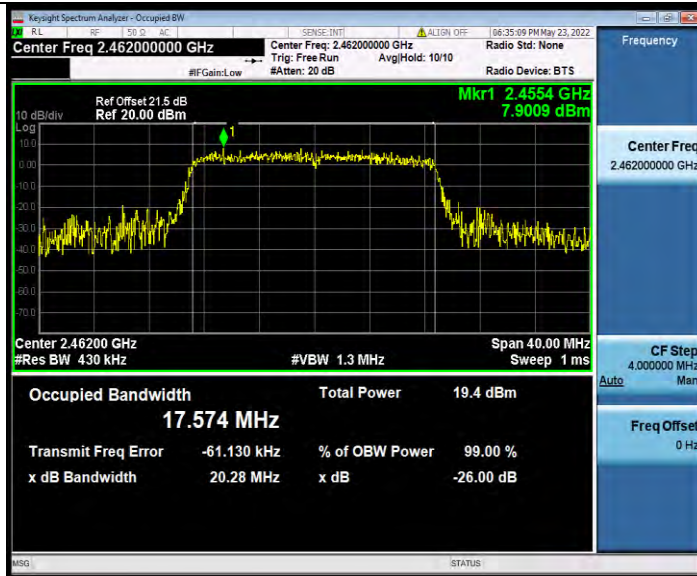


11N20SISO_Ant1_2462

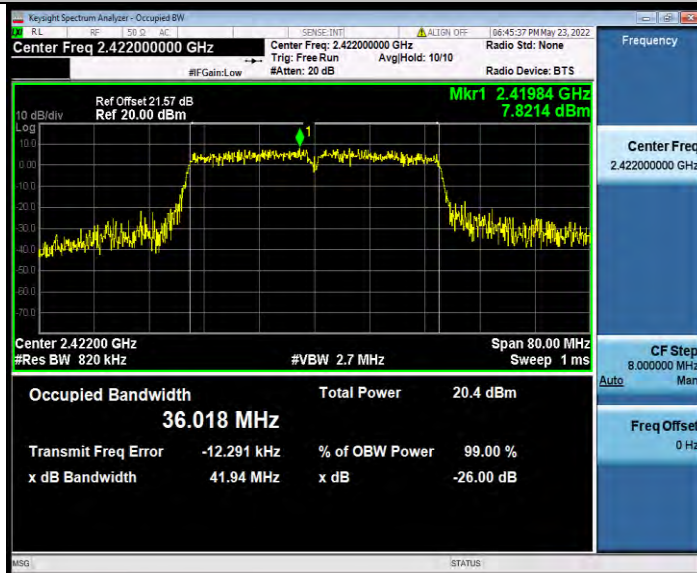


**BUREAU
VERITAS**

Test Report No.: W7L-P22050002RF02



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

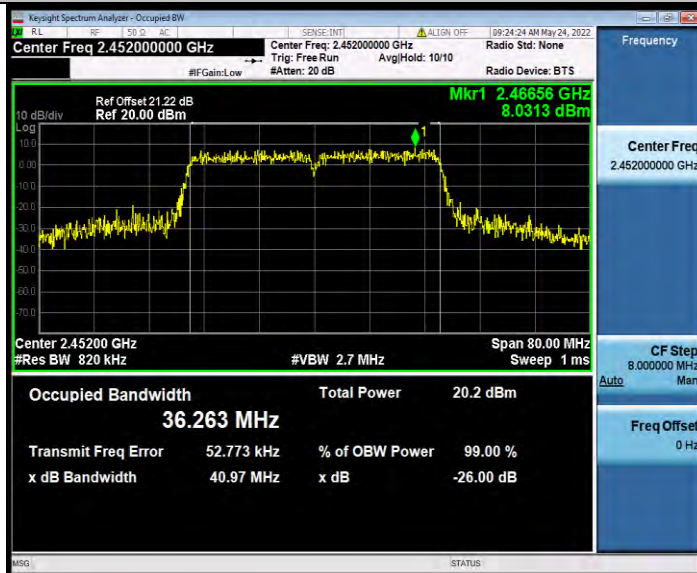


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Test Report No.: W7L-P22050002RF02



11N40SISO_Ant1_2452





MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

TestMode	Antenna	Freq. (MHz)	Average Power[dBm]	Peak Power[dBm]	Peak Power[mw]	Limit [dBm]	Verdict	Power setting
11B	Ant1	2412	18.42	21.67	146.89	≤30	PASS	17
		2437	21.22	24.18	261.82	≤30	PASS	17
		2462	19.53	22.73	187.50	≤30	PASS	17
11G	Ant1	2412	15.83	23.15	206.54	≤30	PASS	15
		2437	18.40	24.83	304.09	≤30	PASS	15
		2462	16.89	23.88	244.34	≤30	PASS	15
11N20 SISO	Ant1	2412	15.05	22.65	184.08	≤30	PASS	14
		2437	17.95	24.54	284.45	≤30	PASS	14
		2462	16.24	23.32	214.78	≤30	PASS	14
11N40 SISO	Ant1	2422	16.18	23.35	216.27	≤30	PASS	14
		2437	17.76	24.71	295.80	≤30	PASS	14
		2452	14.86	22.54	179.47	≤30	PASS	13



MAXIMUM POWER SPECTRAL DENSITY TEST RESULT

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-0.98	≤8.00	PASS
		2437	0.82	≤8.00	PASS
		2462	-0.42	≤8.00	PASS
11G	Ant1	2412	-8.93	≤8.00	PASS
		2437	-7.97	≤8.00	PASS
		2462	-8.50	≤8.00	PASS
11N20SISO	Ant1	2412	-9.73	≤8.00	PASS
		2437	-8.15	≤8.00	PASS
		2462	-8.97	≤8.00	PASS
11N40SISO	Ant1	2422	-11.60	≤8.00	PASS
		2437	-10.95	≤8.00	PASS
		2452	-11.02	≤8.00	PASS



TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



11G_Ant1_2412

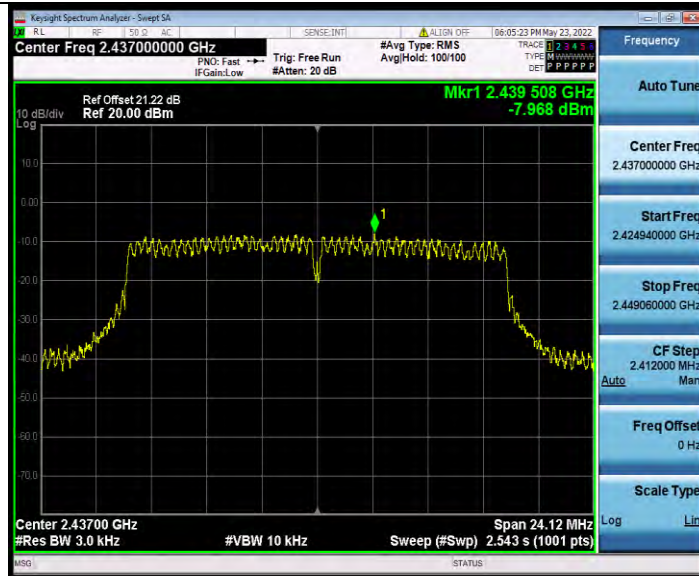


11G_Ant1_2437

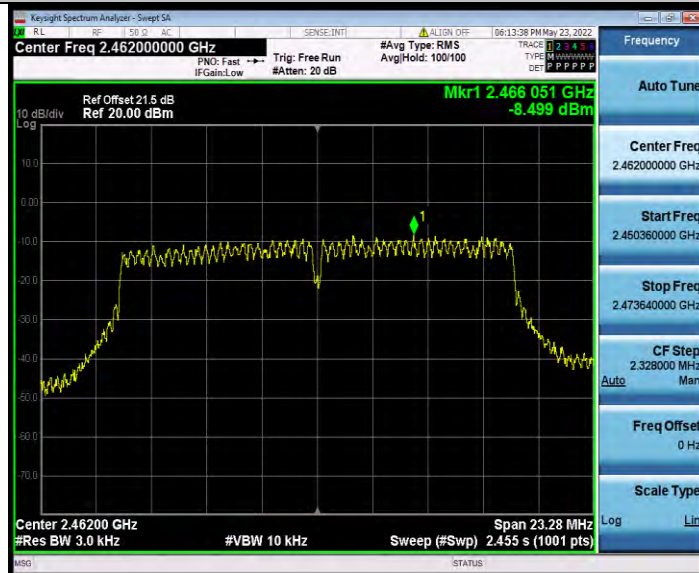


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Test Report No.: W7L-P22050002RF02



11G_Ant1_2462



11N20SISO_Ant1_2412

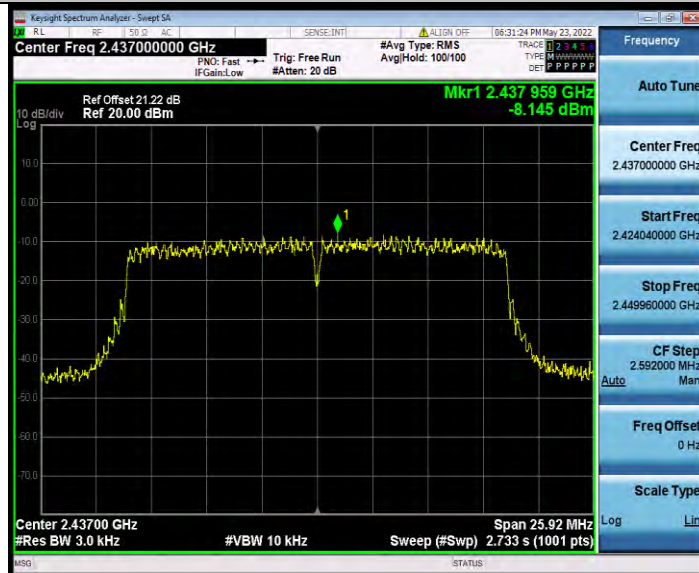


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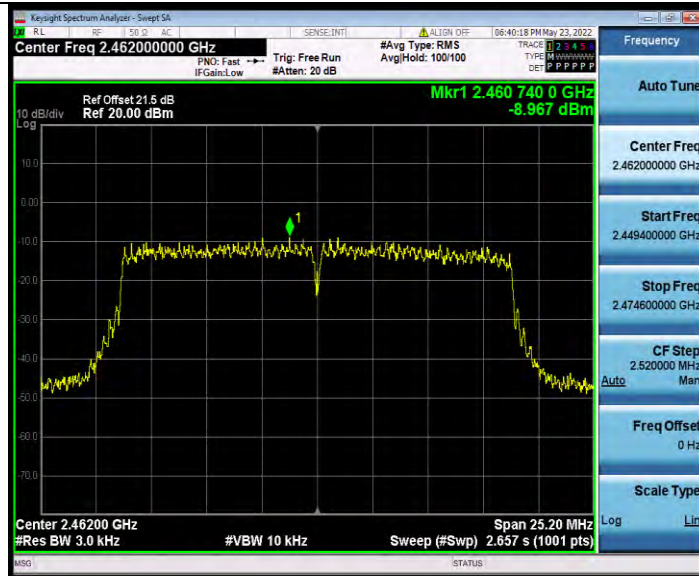
Test Report No.: W7L-P22050002RF02



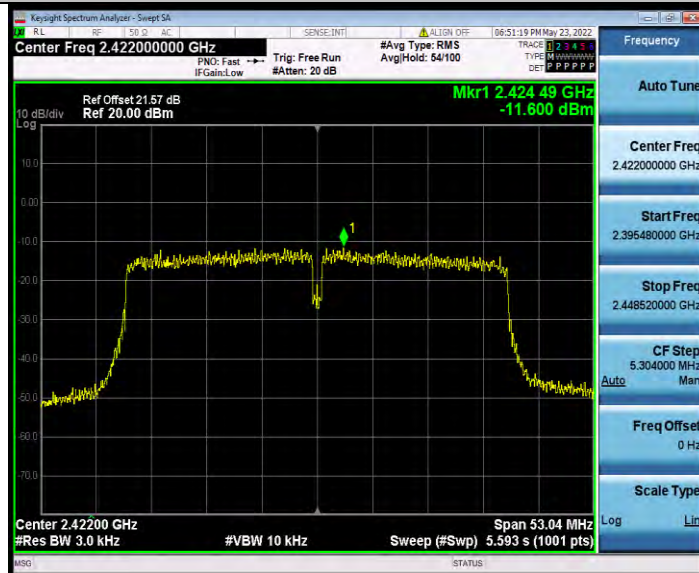
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

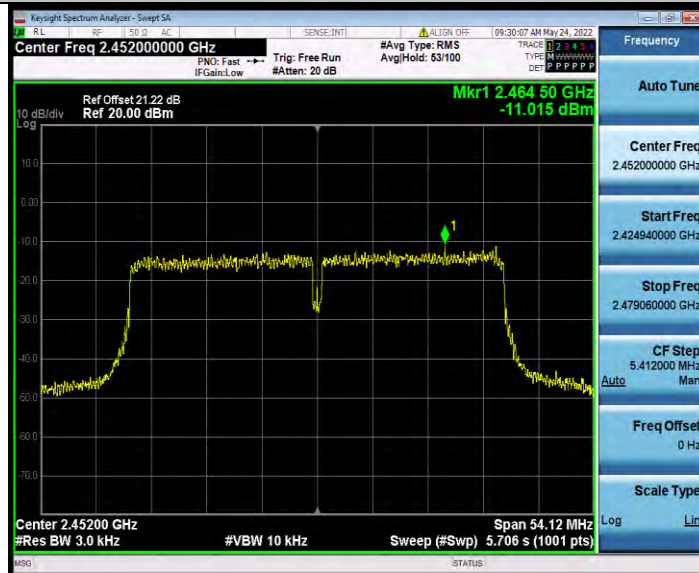


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Test Report No.: W7L-P22050002RF02



11N40SISO_Ant1_2452





REFERENCE LEVEL MEASUREMENT

TEST RESULT

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2413.01	9.68
		2437	2438.00	11.49
		2462	2461.00	10.02
11G	Ant1	2412	2409.52	3.85
		2437	2438.28	6.55
		2462	2464.47	4.94
11N20SISO	Ant1	2412	2413.27	3.87
		2437	2438.27	5.31
		2462	2454.54	4.17
11N40SISO	Ant1	2422	2415.74	2.16
		2437	2440.75	2.84
		2452	2464.50	1.81



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Test Report No.: W7L-P22050002RF02

TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



**BUREAU
VERITAS**

Test Report No.: W7L-P22050002RF02



11G_Ant1_2412



11G_Ant1_2437



BUREAU VERITAS Test Report No.: W7L-P22050002RF02



11G_Ant1_2462



11N20SISO_Ant1_2412



**BUREAU
VERITAS**

Test Report No.: W7L-P22050002RF02



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



BUREAU
VERITAS

Test Report No.: W7L-P22050002RF02



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

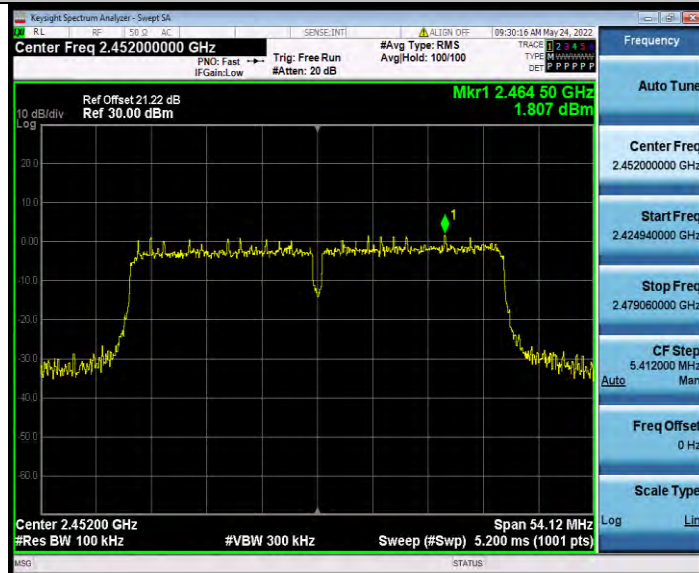


BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



11N40SISO_Ant1_2452





BAND EDGE MEASUREMENTS

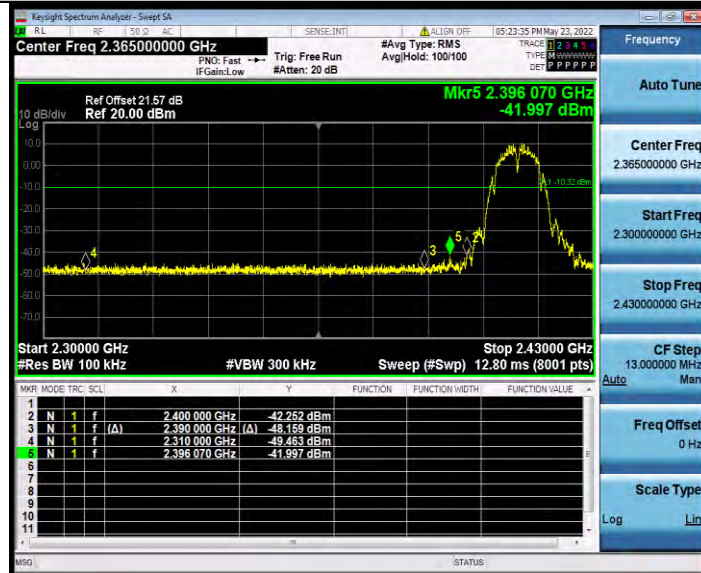
TEST RESULT

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.68	-42.00	≤-10.32	PASS
		High	2462	10.02	-44.29	≤-9.98	PASS
11G	Ant1	Low	2412	3.85	-28.38	≤-16.15	PASS
		High	2462	4.94	-38.34	≤-15.06	PASS
11N20SISO	Ant1	Low	2412	3.87	-27.90	≤-16.13	PASS
		High	2462	4.17	-41.29	≤-15.83	PASS
11N40SISO	Ant1	Low	2422	2.16	-29.31	≤-17.84	PASS
		High	2452	1.81	-35.12	≤-18.19	PASS

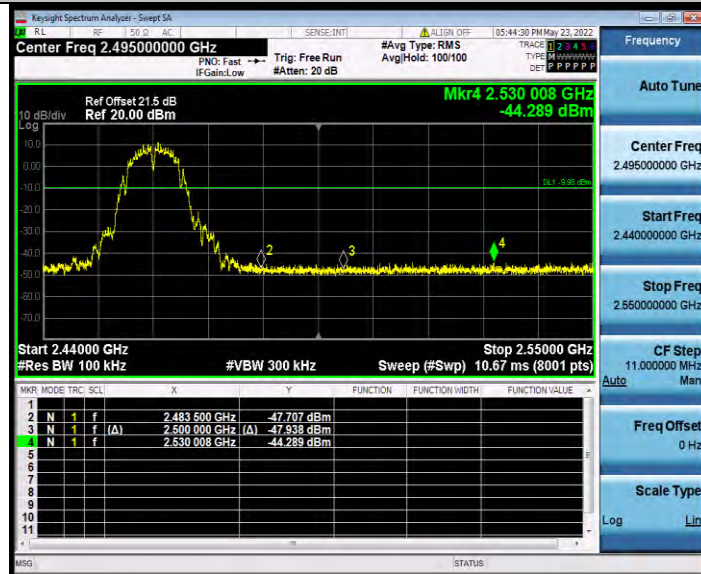


TEST GRAPHS

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

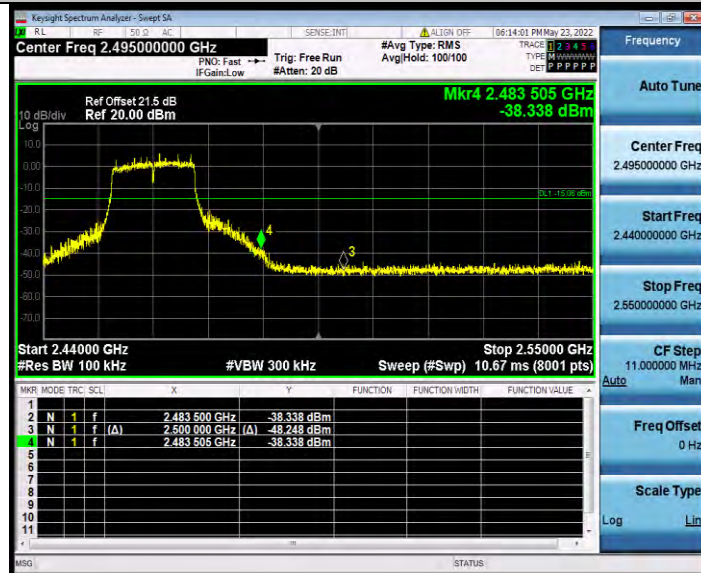


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Test Report No.: W7L-P22050002RF02



11G_Ant1_High_2462

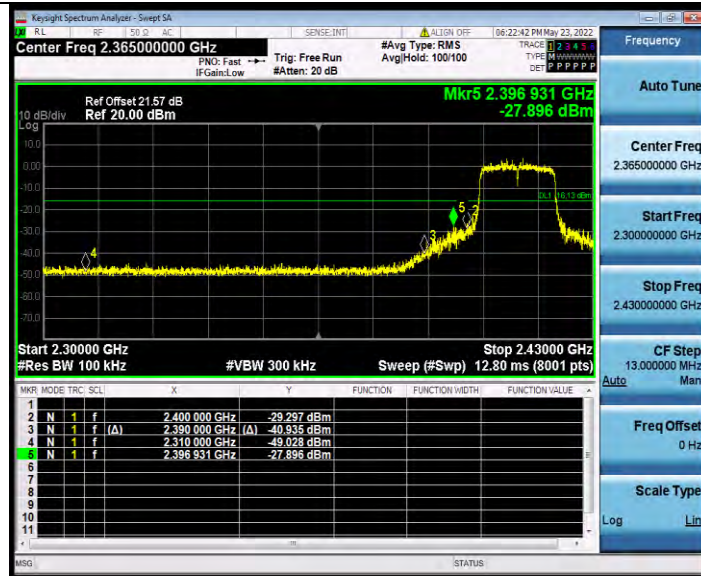


11N20SISO_Ant1_Low_2412

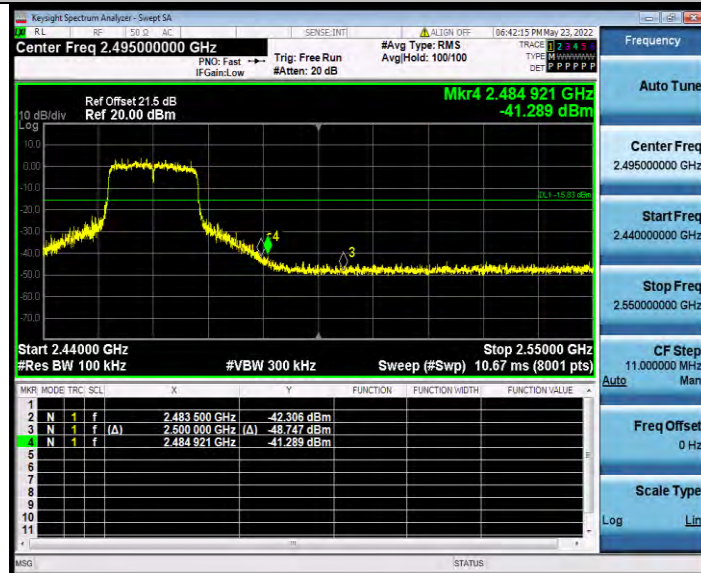


BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



11N20SISO_Ant1_High_2462

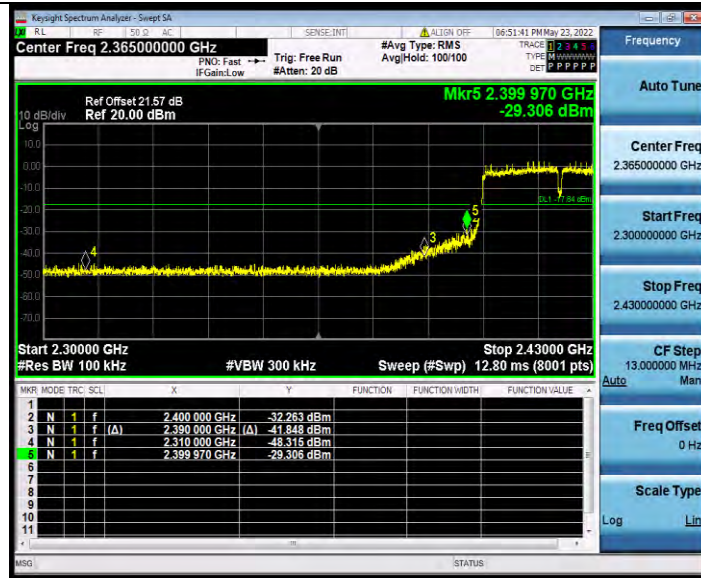


11N40SISO_Ant1_Low_2422



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Test Report No.: W7L-P22050002RF02



11N40SISO_Ant1_High_2452





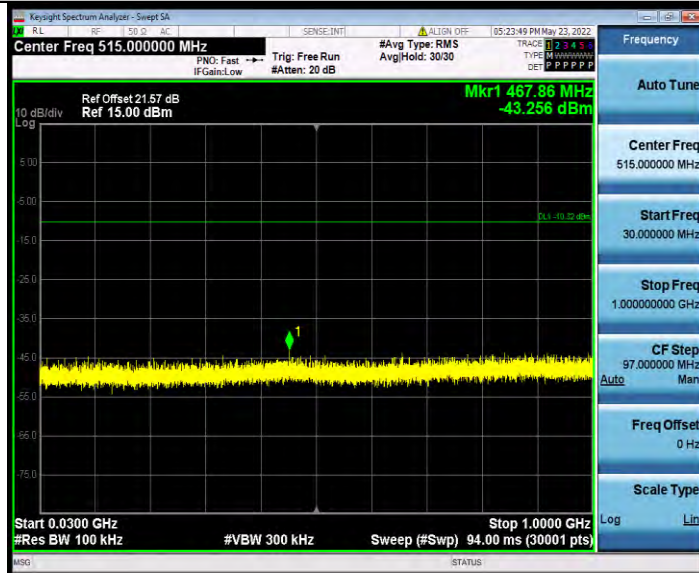
CONDUCTED SPURIOUS EMISSION TEST RESULT

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	9.68	-43.26	≤-10.32	PASS
			1000~26500	9.68	-26.91	≤-10.32	PASS
		2437	30~1000	11.49	-42.91	≤-8.51	PASS
			1000~26500	11.49	-27.51	≤-8.51	PASS
		2462	30~1000	10.02	-43.49	≤-9.98	PASS
			1000~26500	10.02	-27.52	≤-9.98	PASS
11G	Ant1	2412	30~1000	3.85	-43.27	≤-16.15	PASS
			1000~26500	3.85	-27.04	≤-16.15	PASS
		2437	30~1000	6.55	-43.18	≤-13.45	PASS
			1000~26500	6.55	-27.91	≤-13.45	PASS
		2462	30~1000	4.94	-43.07	≤-15.06	PASS
			1000~26500	4.94	-26.86	≤-15.06	PASS
11N20SISO	Ant1	2412	30~1000	3.87	-43.22	≤-16.13	PASS
			1000~26500	3.87	-27.39	≤-16.13	PASS
		2437	30~1000	5.31	-43.76	≤-14.69	PASS
			1000~26500	5.31	-28.06	≤-14.69	PASS
		2462	30~1000	4.17	-43.49	≤-15.83	PASS
			1000~26500	4.17	-27.91	≤-15.83	PASS
11N40SISO	Ant1	2422	30~1000	2.16	-42.01	≤-17.84	PASS
			1000~26500	2.16	-26.42	≤-17.84	PASS
		2437	30~1000	2.84	-43.82	≤-17.16	PASS
			1000~26500	2.84	-27.38	≤-17.16	PASS
		2452	30~1000	1.81	-43.37	≤-18.19	PASS
			1000~26500	1.81	-27.57	≤-18.19	PASS



TEST GRAPHS

11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

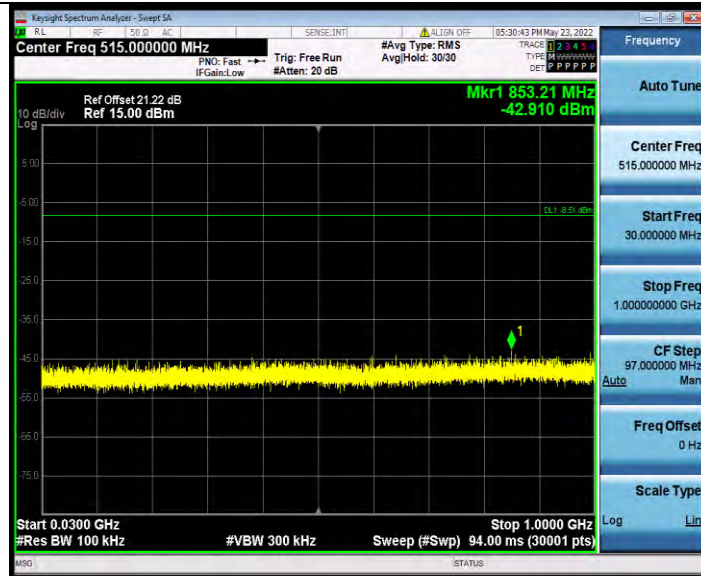


11B_Ant1_2437_30~1000



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Test Report No.: W7L-P22050002RF02



11B_Ant1_2437_1000~26500



11B_Ant1_2462_30~1000

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

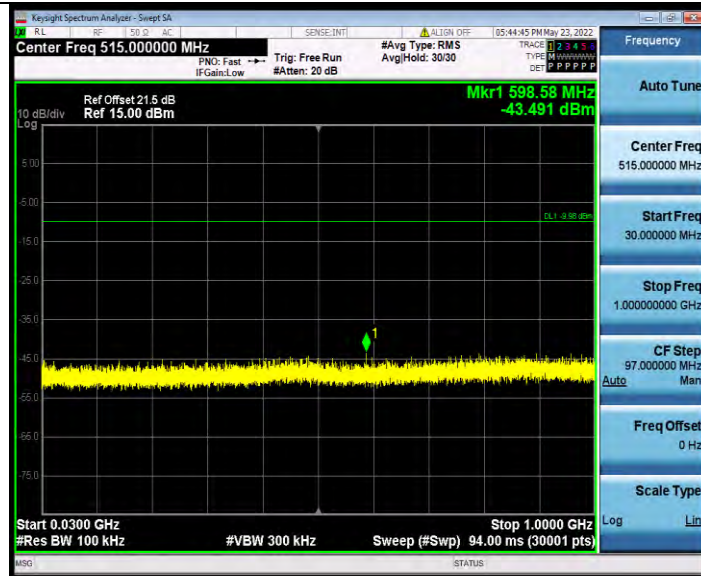
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566
Fax: +86 755 8869 6577
Email: customerservice.sw@bureauveritas.com



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11B_Ant1_2462_1000~26500

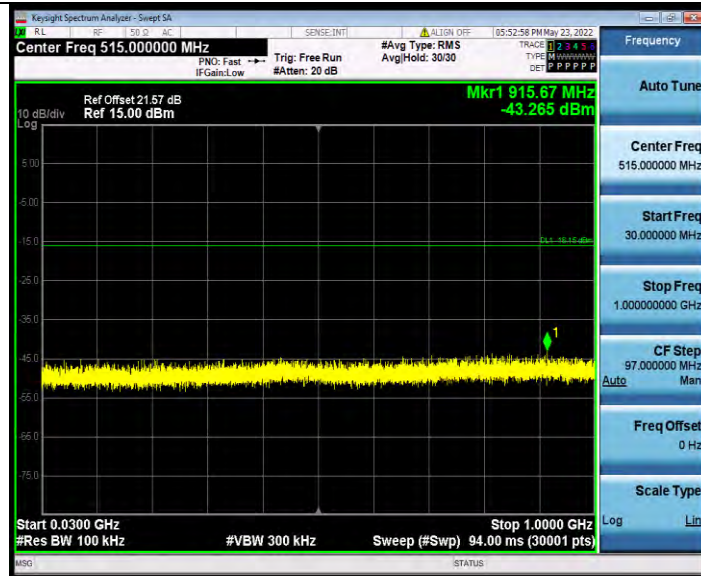


11G_Ant1_2412_30~1000



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Test Report No.: W7L-P22050002RF02



11G_Ant1_2412_1000~26500

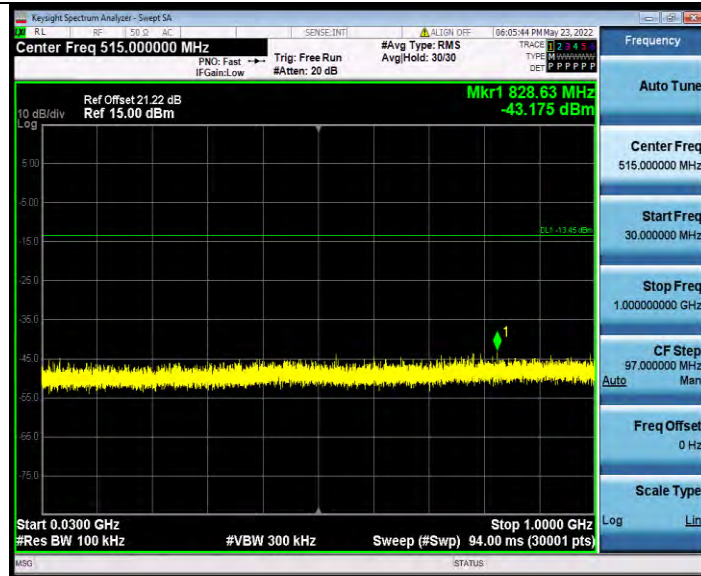


11G_Ant1_2437_30~1000



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Test Report No.: W7L-P22050002RF02



11G_Ant1_2437_1000~26500



11G_Ant1_2462_30~1000

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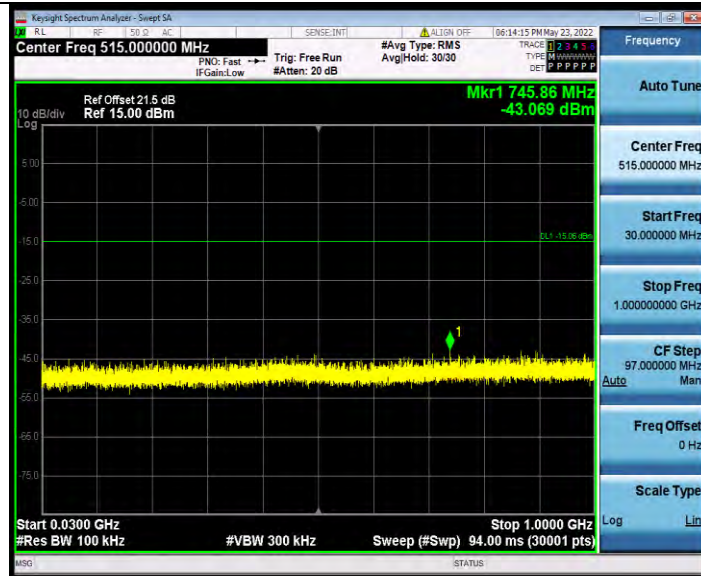
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566
Fax: +86 755 8869 6577
Email: customerservice.sw@bureauveritas.com



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Test Report No.: W7L-P22050002RF02



11G_Ant1_2462_1000~26500

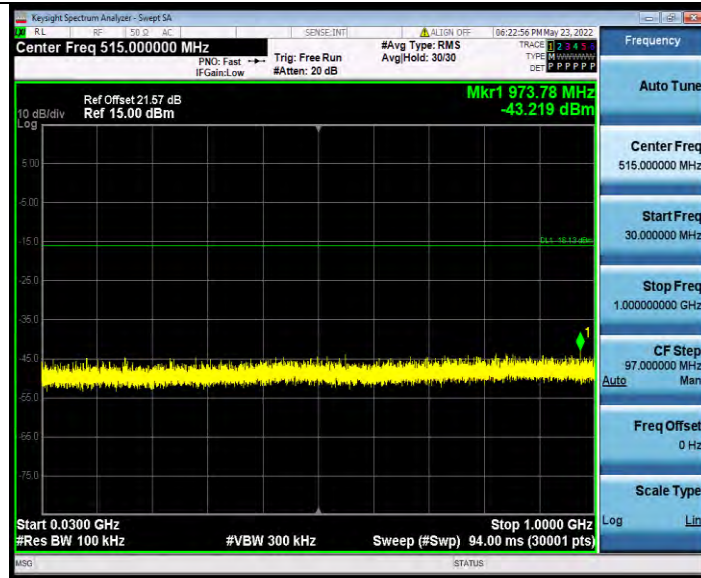


11N20SISO_Ant1_2412_30~1000



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Test Report No.: W7L-P22050002RF02



11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_30~1000

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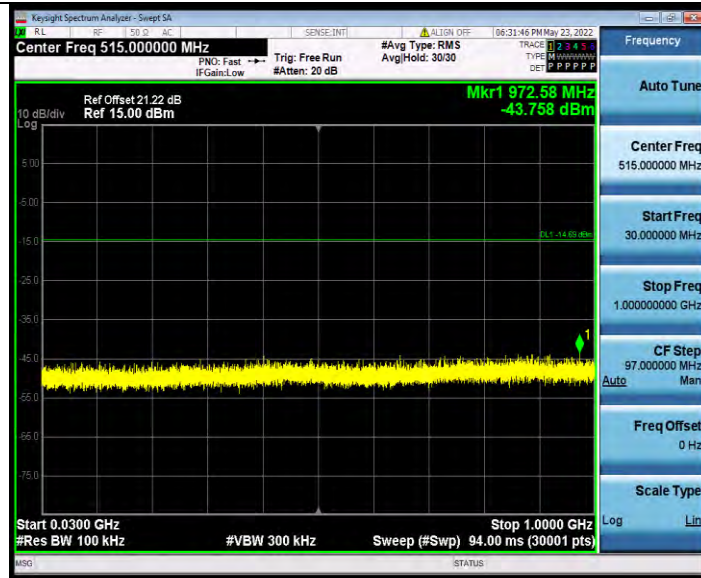
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566
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11N20SISO_Ant1_2437_1000~26500

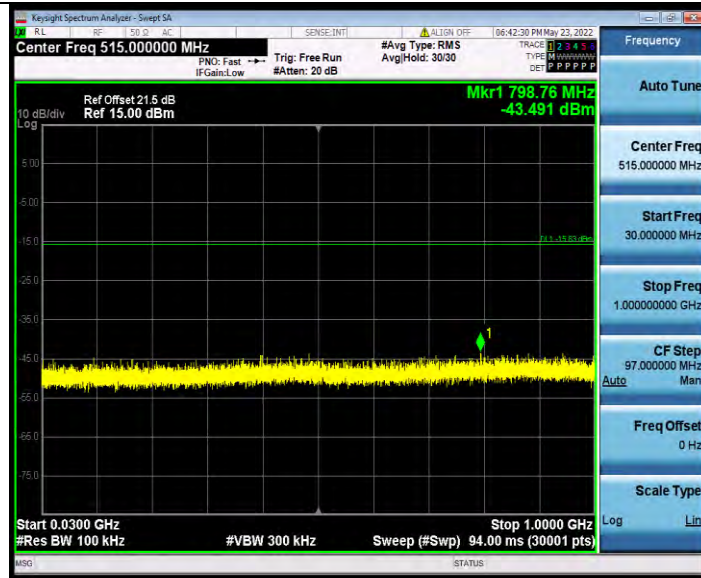


11N20SISO_Ant1_2462_30~1000



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Test Report No.: W7L-P22050002RF02



11N20SISO_Ant1_2462_1000~26500

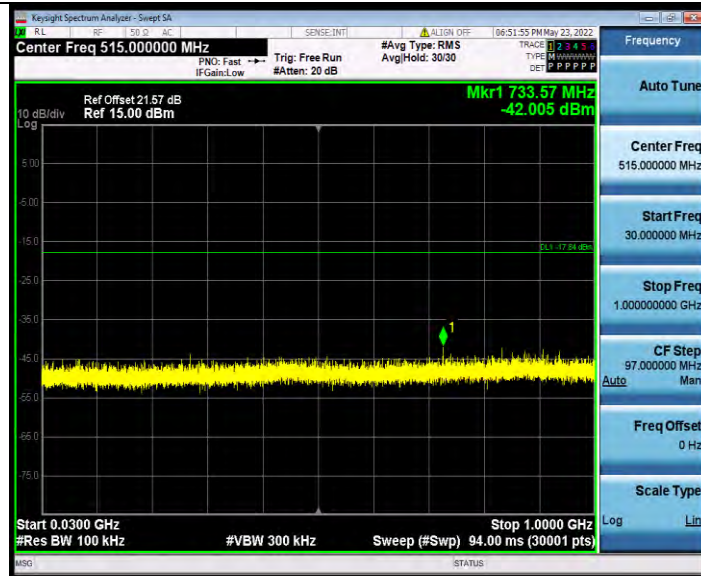


11N40SISO_Ant1_2422_30~1000



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Test Report No.: W7L-P22050002RF02



11N40SISO_Ant1_2422_1000~26500

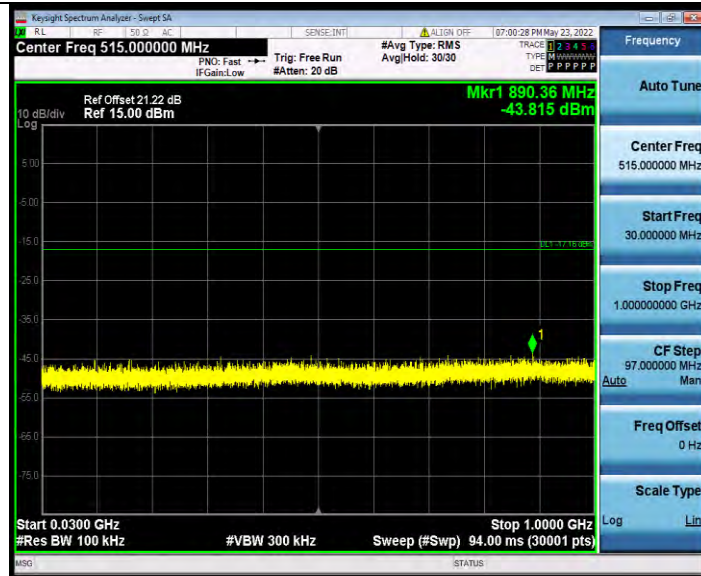


11N40SISO_Ant1_2437_30~1000



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Test Report No.: W7L-P22050002RF02



11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000

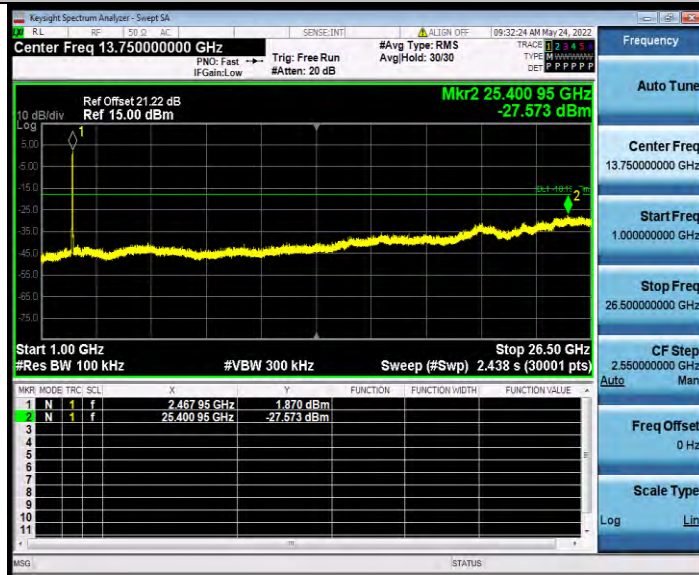


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Test Report No.: W7L-P22050002RF02



11N40SISO_Ant1_2452_1000~26500





DUTY CYCLE TEST RESULT

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Verdict
11B	Ant1	2412	8.22	8.30	99.04	---
		2437	8.22	8.30	99.04	---
		2462	8.22	8.30	99.04	---
11G	Ant1	2412	1.36	1.43	95.10	---
		2437	1.37	1.44	95.14	---
		2462	1.36	1.43	95.10	---
11N20SISO	Ant1	2412	1.15	1.23	93.50	---
		2437	1.15	1.27	90.55	---
		2462	1.15	1.24	92.74	---
11N40SISO	Ant1	2422	0.58	0.65	89.23	---
		2437	0.57	0.65	87.69	---
		2452	0.58	0.67	86.57	---

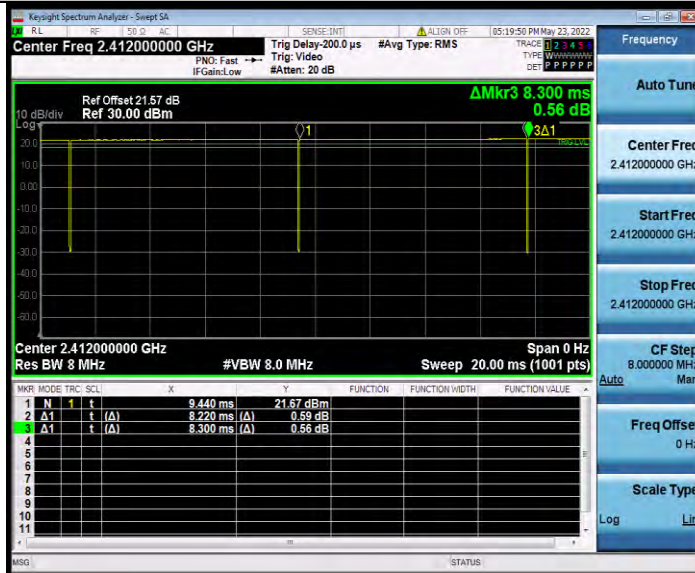


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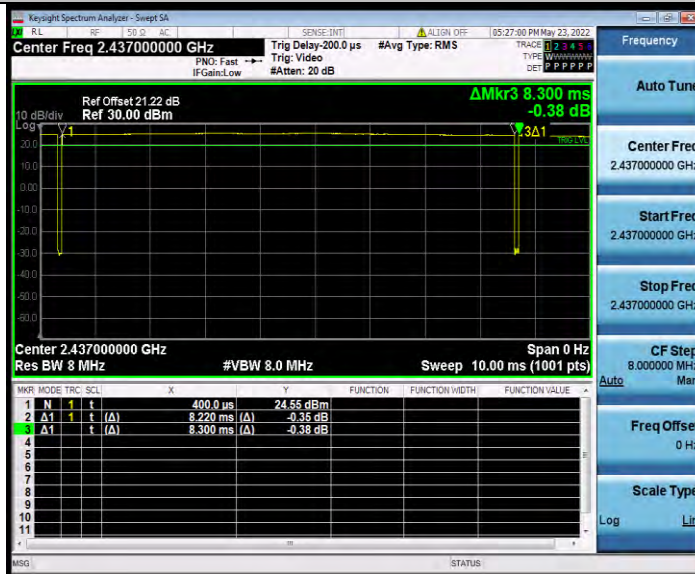
Test Report No.: W7L-P22050002RF02

TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437

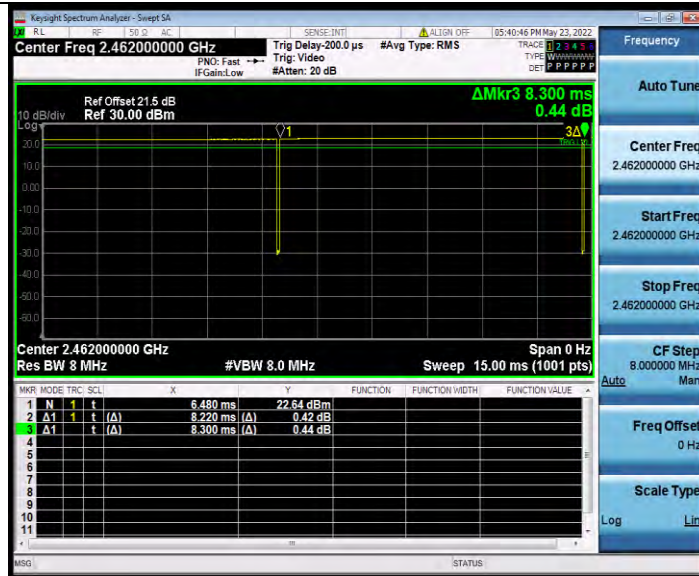


11B_Ant1_2462

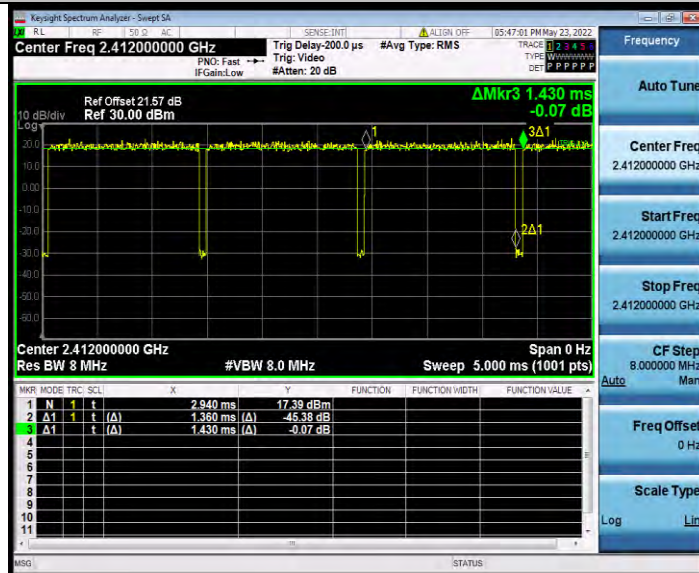


BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



11G_Ant1_2412

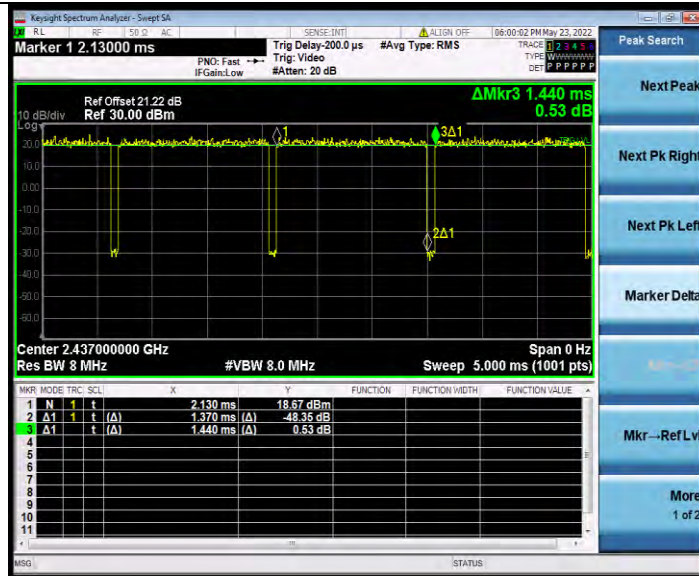


11G_Ant1_2437

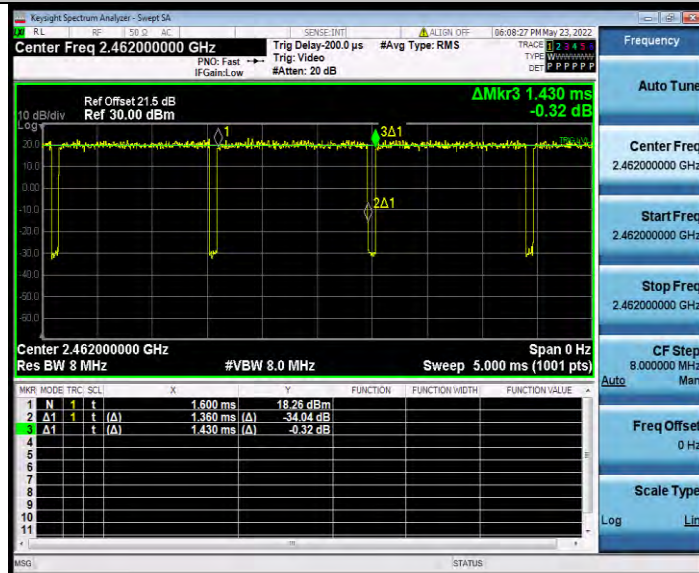


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VERITAS**

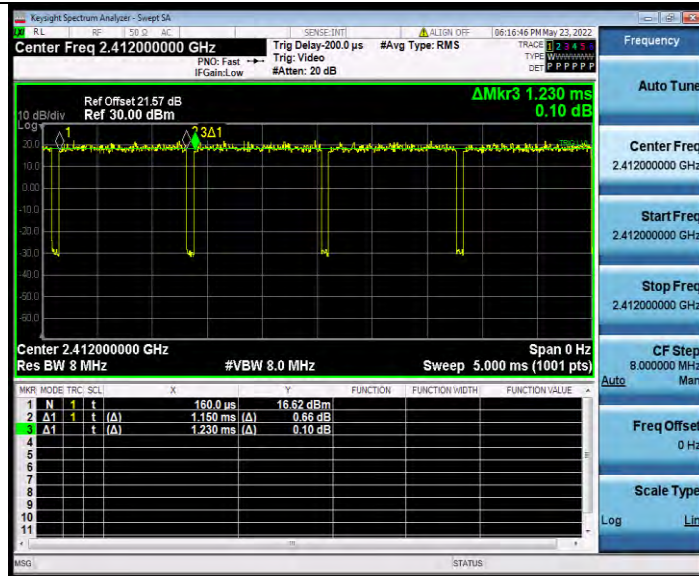
Test Report No.: W7L-P22050002RF02



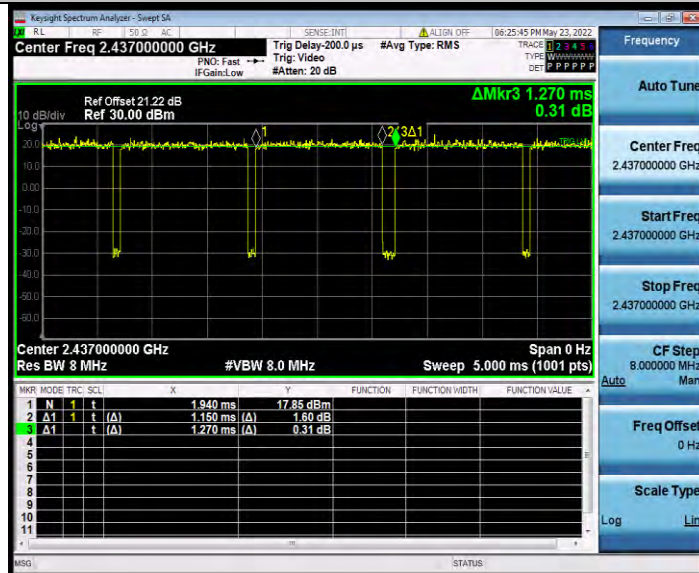
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

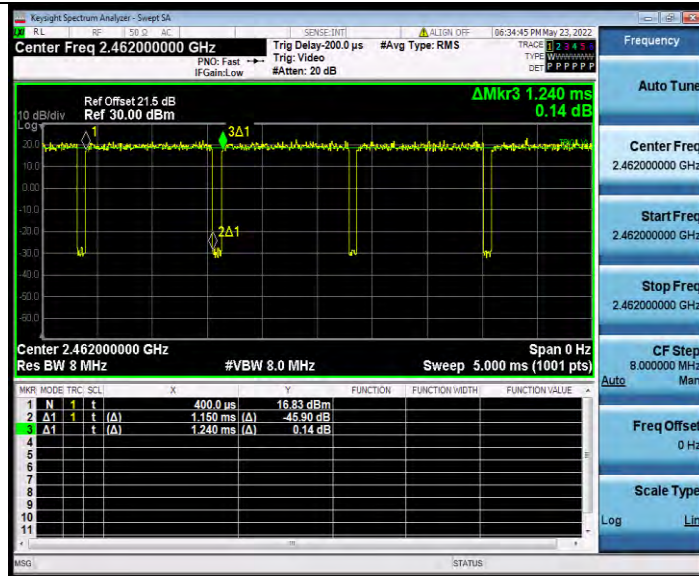


11N20SISO_Ant1_2462

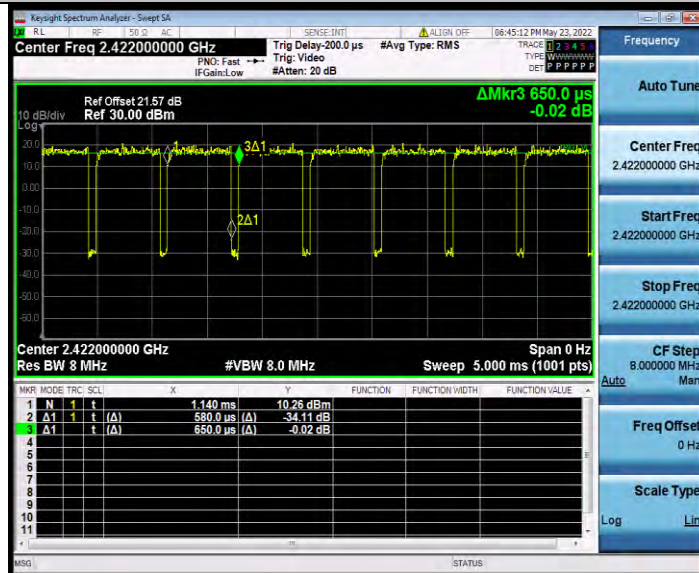


BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



11N40SISO_Ant1_2422

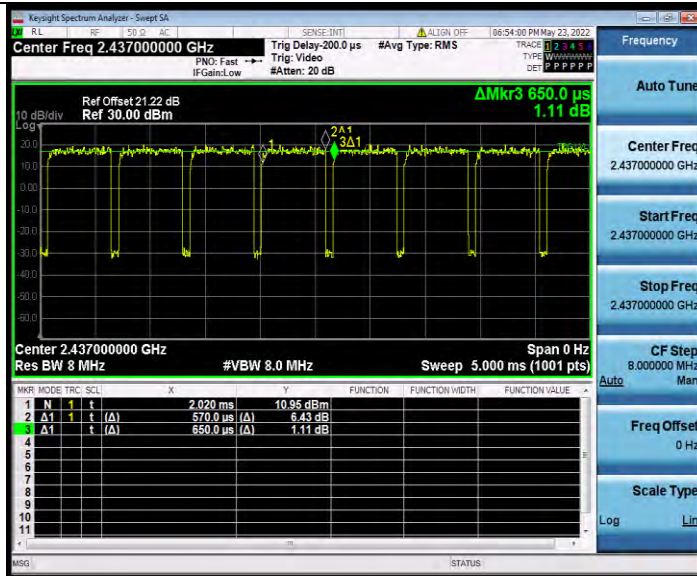


11N40SISO_Ant1_2437

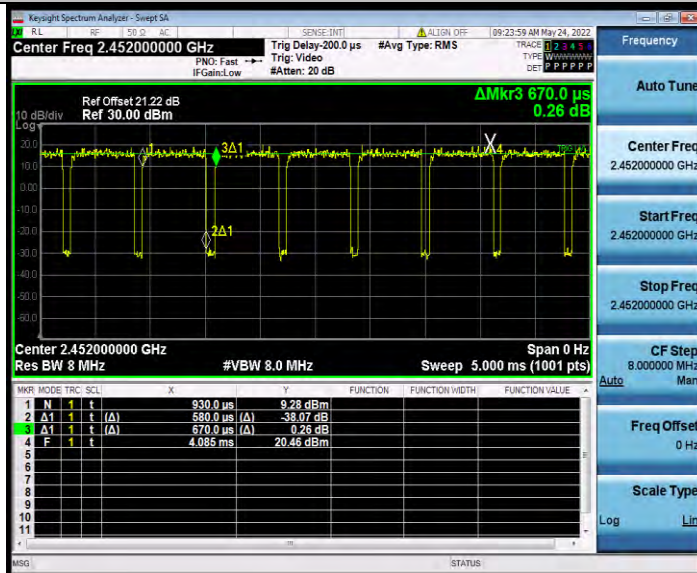


**BUREAU
VERITAS**

Test Report No.: W7L-P22050002RF02



11N40SISO_Ant1_2452





7 Appendix 2 BLE

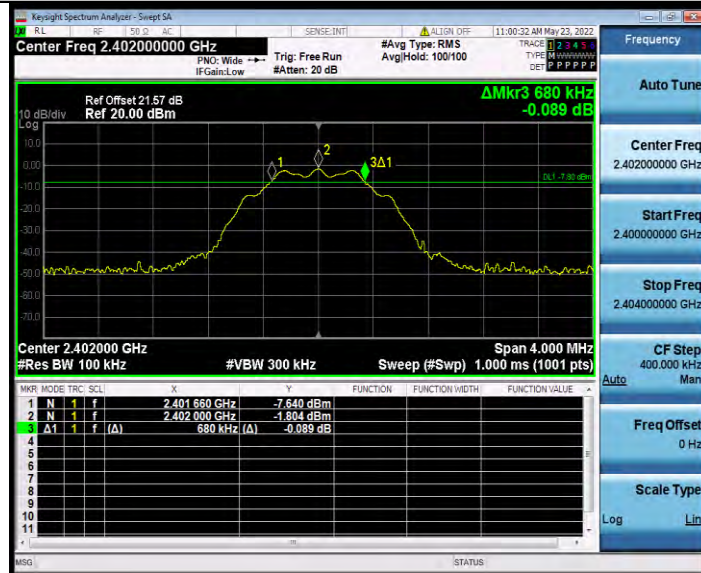
DTS BANDWIDTH TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_125K	Ant1	2402	0.680	2401.660	2402.340	0.5	PASS
		2440	0.680	2439.656	2440.336	0.5	PASS
		2480	0.680	2479.656	2480.336	0.5	PASS
BLE_1M	Ant1	2402	0.640	2401.676	2402.316	0.5	PASS
		2440	0.656	2439.672	2440.328	0.5	PASS
		2480	0.720	2479.636	2480.356	0.5	PASS
BLE_2M	Ant1	2402	1.120	2401.424	2402.544	0.5	PASS
		2440	1.232	2439.360	2440.592	0.5	PASS
		2480	1.228	2479.352	2480.580	0.5	PASS
BLE_500K	Ant1	2402	0.660	2401.676	2402.336	0.5	PASS
		2440	0.644	2439.676	2440.320	0.5	PASS
		2480	0.648	2479.676	2480.324	0.5	PASS

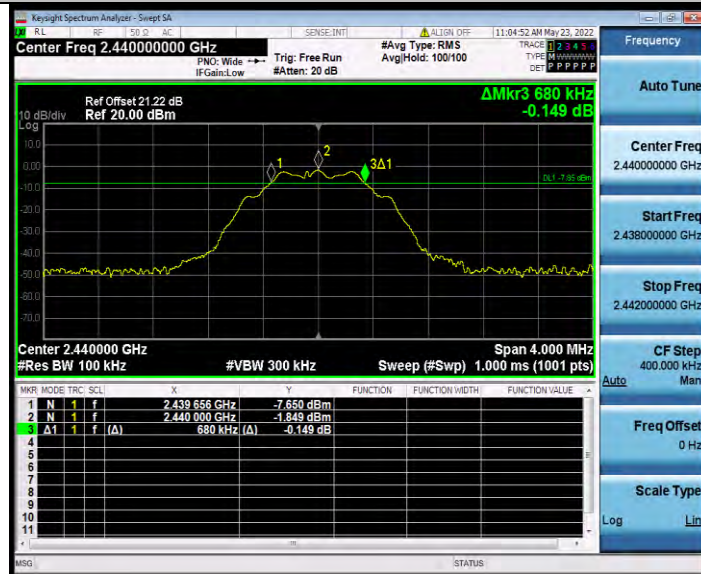


TEST GRAPHS

BLE_125K_Ant1_2402



BLE_125K_Ant1_2440

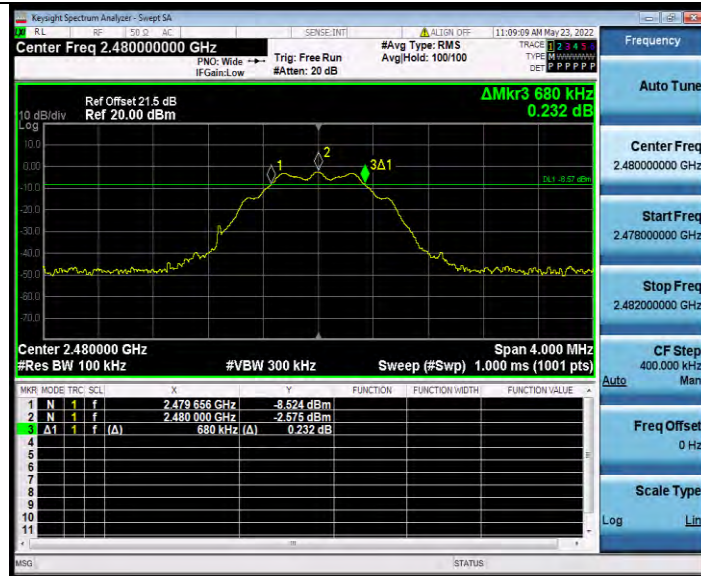


BLE_125K_Ant1_2480



BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



BLE_1M_Ant1_2402

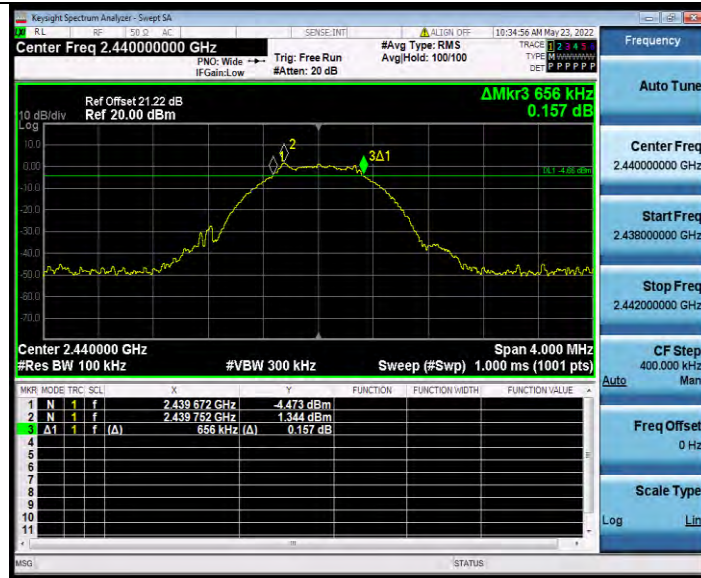


BLE_1M_Ant1_2440



**BUREAU
VERITAS**

Test Report No.: W7L-P22050002RF02



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



**BUREAU
VERITAS**

Test Report No.: W7L-P22050002RF02



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



BLE_500K_Ant1_2402

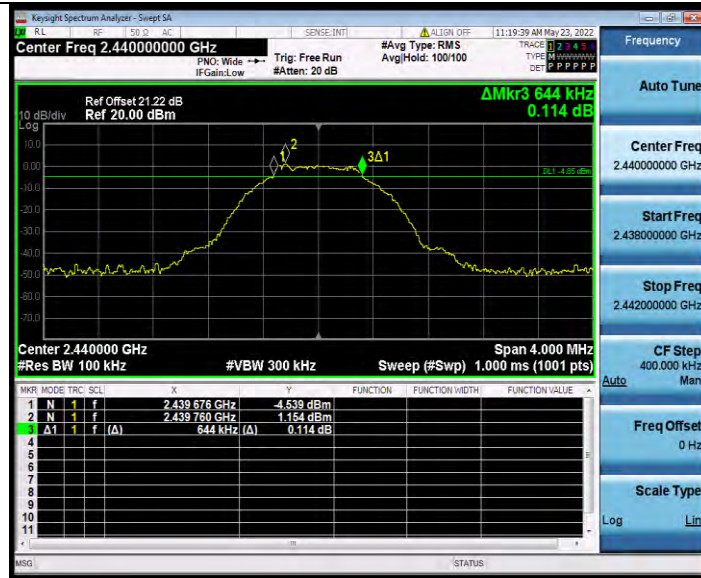


BLE_500K_Ant1_2440

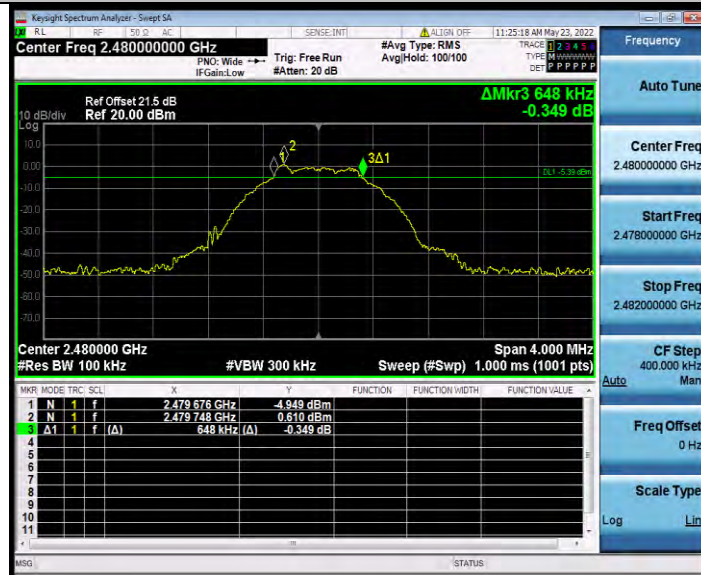


**BUREAU
VERITAS**

Test Report No.: W7L-P22050002RF02



BLE_500K_Ant1_2480





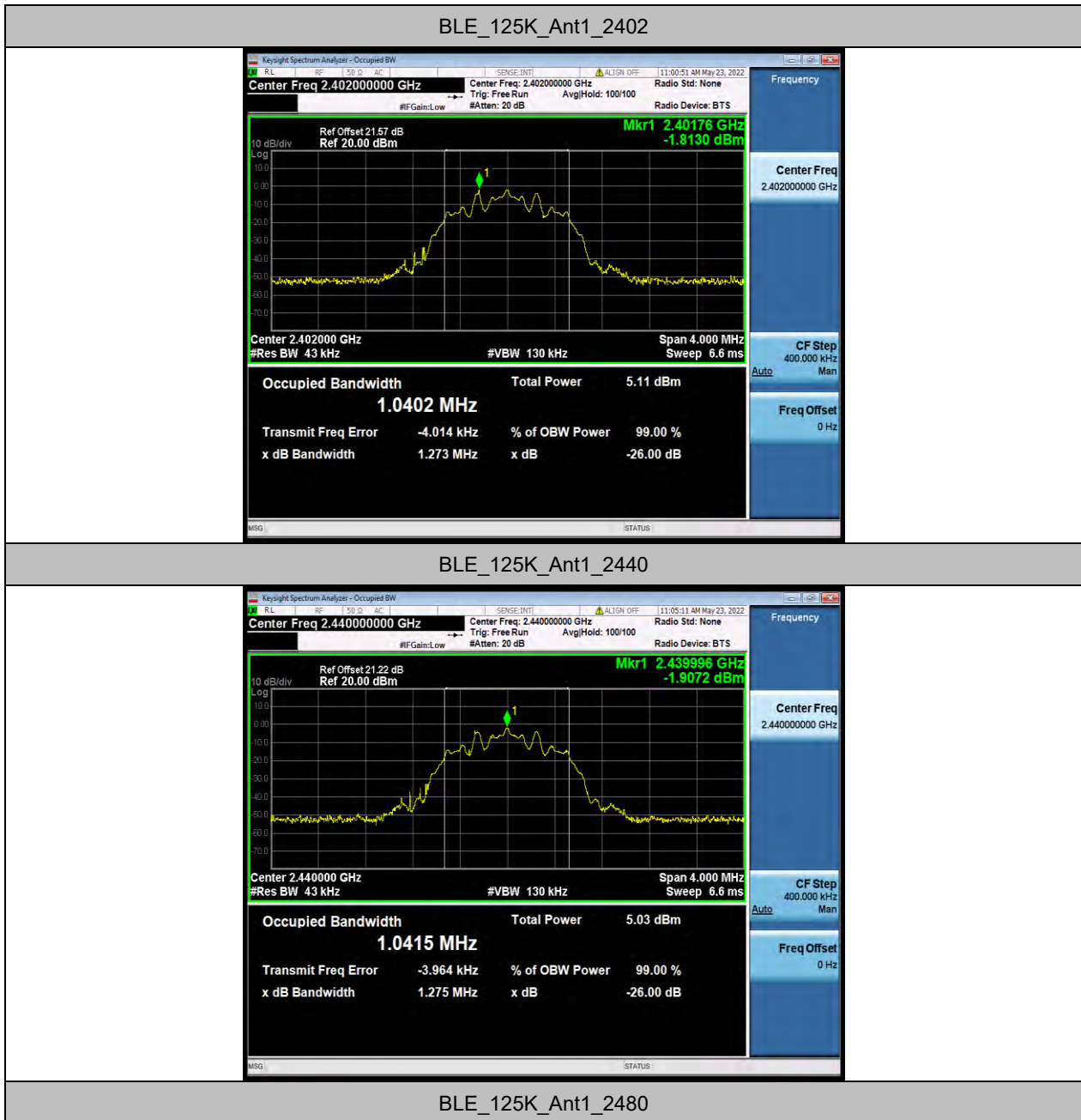
OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_125K	Ant1	2402	1.0402	2401.476	2402.516	---	---
		2440	1.0415	2439.475	2440.517	---	---
		2480	1.0418	2479.474	2480.516	---	---
BLE_1M	Ant1	2402	1.0122	2401.496	2402.508	---	---
		2440	1.0089	2439.495	2440.504	---	---
		2480	1.0089	2479.496	2480.505	---	---
BLE_2M	Ant1	2402	2.0216	2401.004	2403.026	---	---
		2440	2.0192	2439.004	2441.023	---	---
		2480	2.0254	2479.000	2481.025	---	---
BLE_500K	Ant1	2402	1.0148	2401.488	2402.503	---	---
		2440	1.0146	2439.489	2440.504	---	---
		2480	1.0082	2479.492	2480.501	---	---



TEST GRAPHS



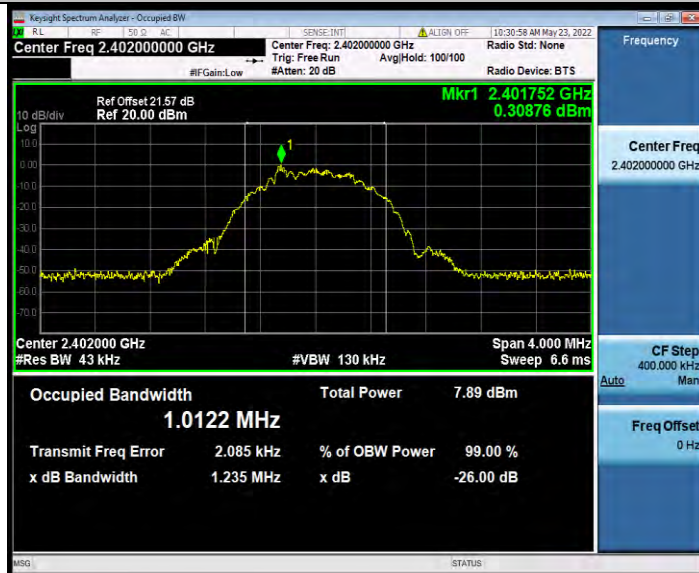


**BUREAU
VERITAS**

Test Report No.: W7L-P22050002RF02



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



**BUREAU
VERITAS**

Test Report No.: W7L-P22050002RF02



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

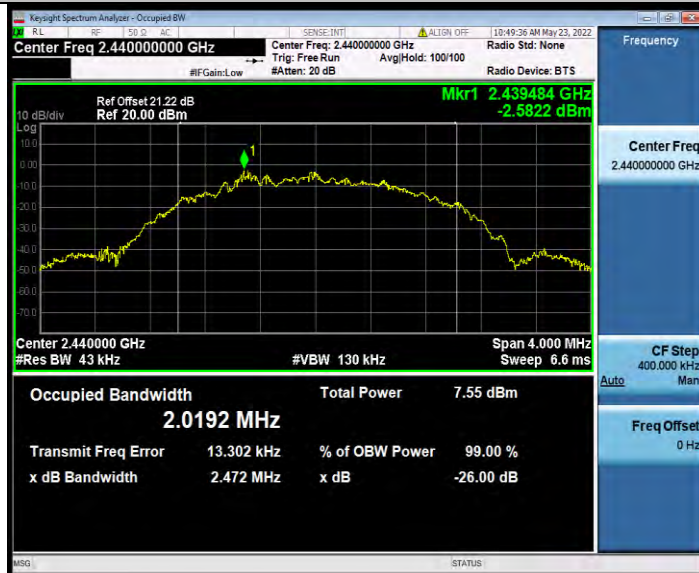


**BUREAU
VERITAS**

Test Report No.: W7L-P22050002RF02



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

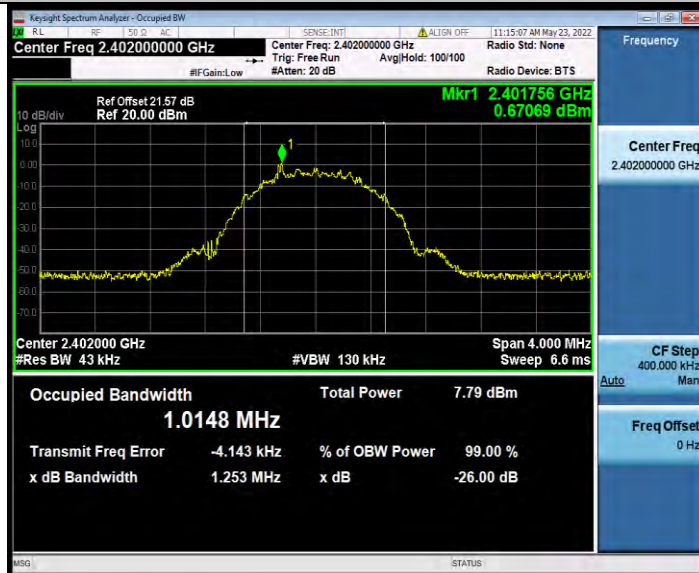


**BUREAU
VERITAS**

Test Report No.: W7L-P22050002RF02



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440