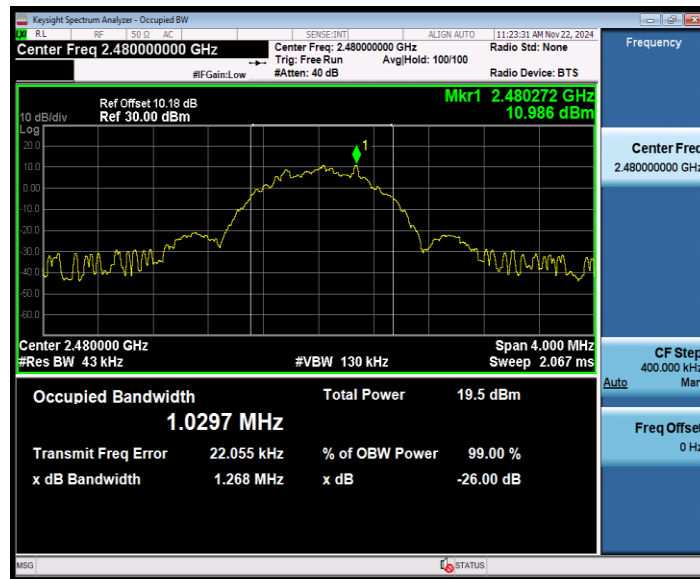


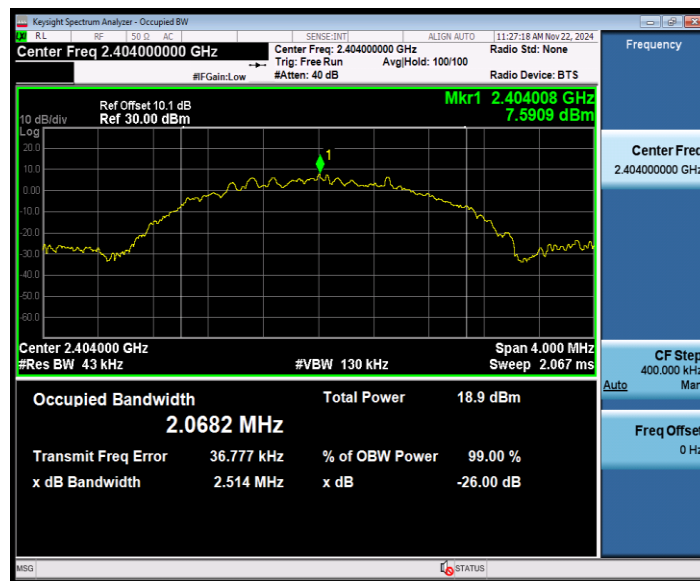


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2478





Test Report No.: W7L-241112W001RF02

MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

TestMode	Antenna	Channel	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdict	Power Setting
BLE_1M	Ant1	2402	12.11	12.21	16.63	≤30	5.21	3.32	≤36	PASS	Default
		2440	12.18	12.28	16.90	≤30	5.28	3.37	≤36	PASS	Default
		2480	12.23	12.35	17.18	≤30	5.35	3.43	≤36	PASS	Default
BLE_2M	Ant1	2404	11.93	12.26	16.83	≤30	5.26	3.36	≤36	PASS	Default
		2440	11.58	12.4	17.38	≤30	5.4	3.47	≤36	PASS	Default
		2478	12.28	12.45	17.58	≤30	5.45	3.51	≤36	PASS	Default
Note:EIRP=Peak Power+Gain											



Test Report No.: W7L-241112W001RF02

MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-2.69	≤8.00	PASS
		2440	-3.34	≤8.00	PASS
		2480	-2.68	≤8.00	PASS
BLE_2M	Ant1	2404	-5.30	≤8.00	PASS
		2440	-5.93	≤8.00	PASS
		2478	-5.35	≤8.00	PASS

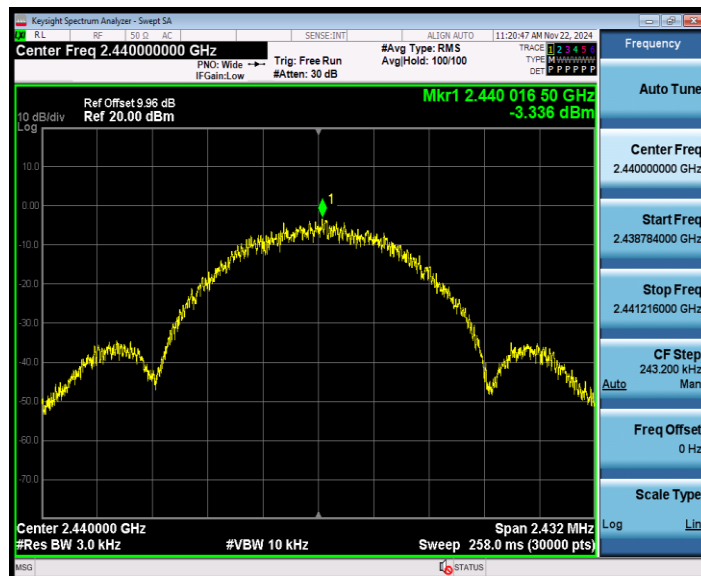


BUREAU VERITAS Test Report No.: W7L-241112W001RF02
TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

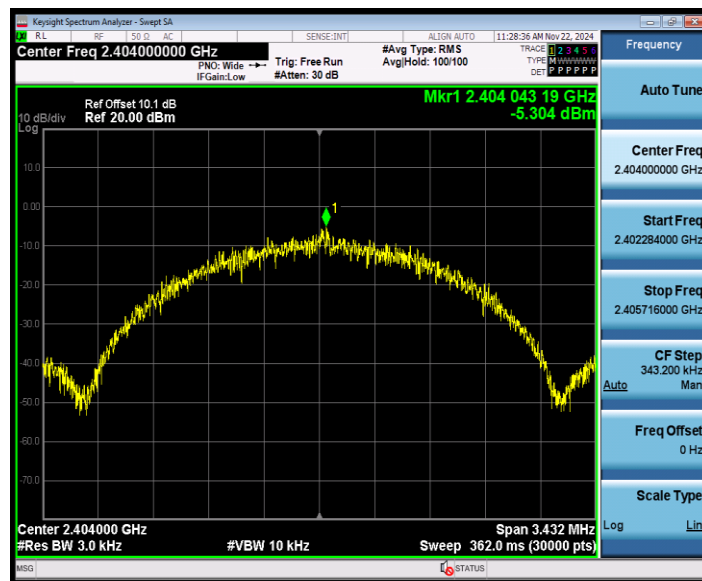


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2404

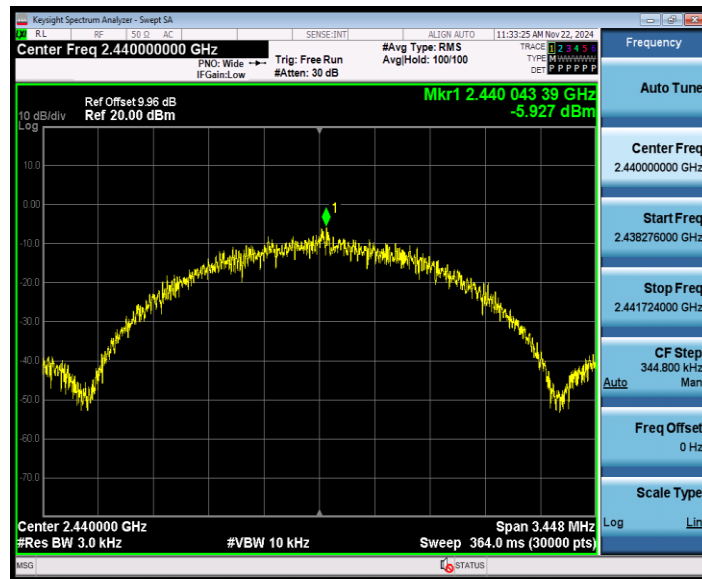


BLE_2M_Ant1_2440

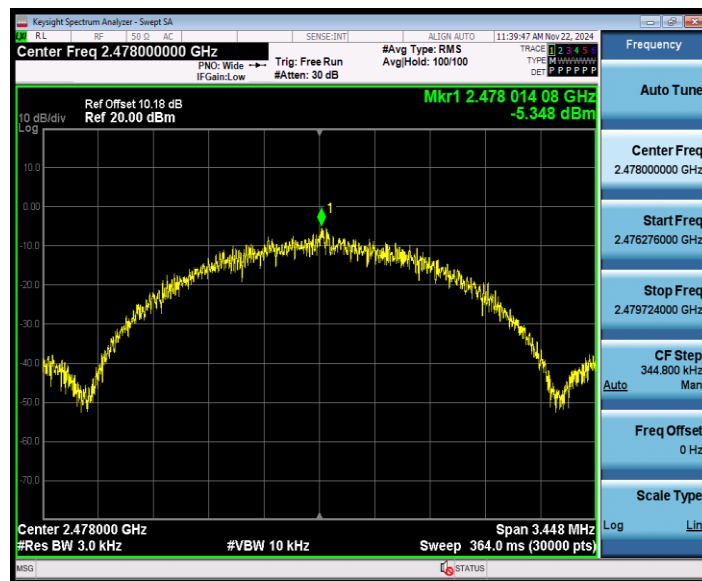


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2478



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

Room B37, Warehouse A5, No.3 Chiwan 4th Road,
Zhaoshang Street, Nanshan District Shenzhen,
Guangdong, People's Republic of China

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



Test Report No.: W7L-241112W001RF02



Test Report No.: W7L-241112W001RF02

BAND EDGE MEASUREMENTS

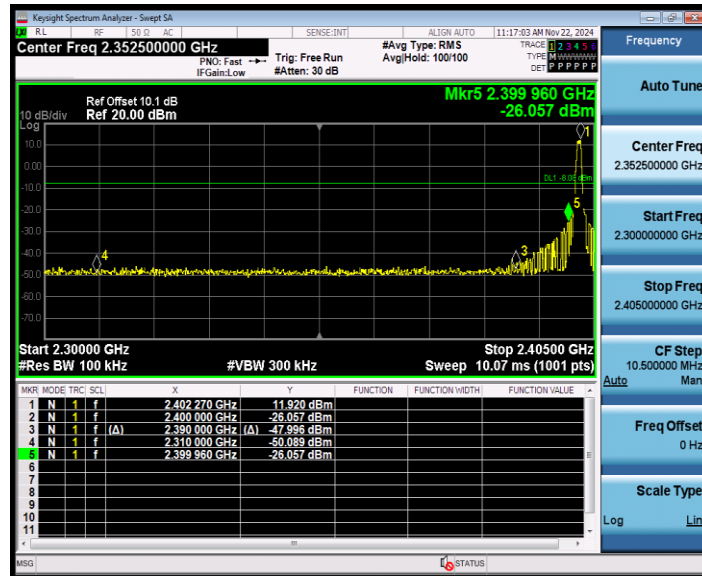
TEST RESULT

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	11.92	-26.06	≤-8.08	PASS
		High	2480	12.42	-32.15	≤-7.58	PASS
BLE_2M	Ant1	Low	2404	11.88	-31.87	≤-8.12	PASS
		High	2478	10.77	-37.58	≤-9.23	PASS



BUREAU VERITAS Test Report No.: W7L-241112W001RF02
TEST GRAPHS

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

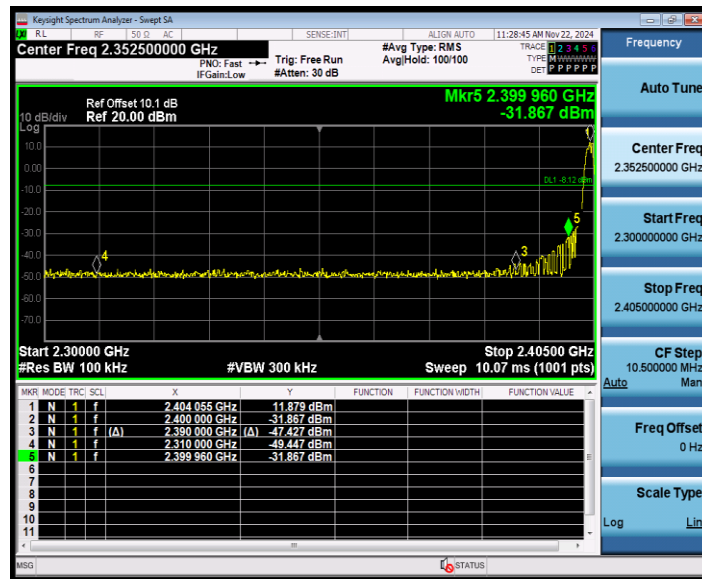


BLE_2M_Ant1_Low_2404

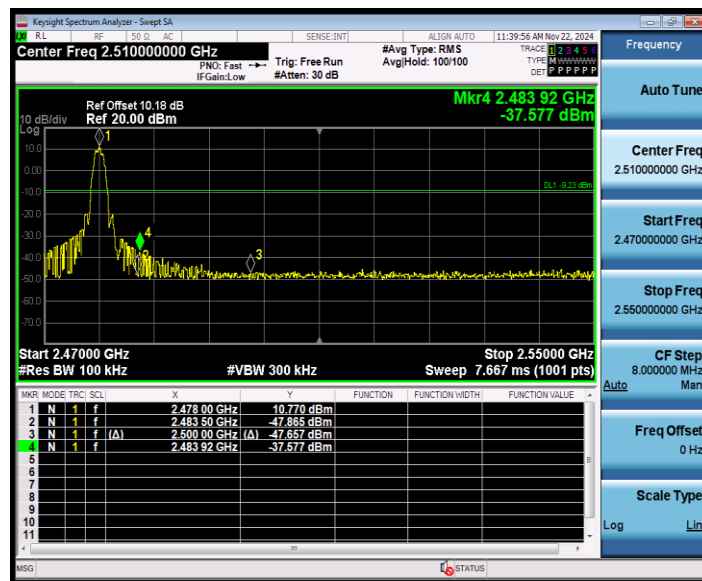


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_High_2478



**CONDUCTED SPURIOUS EMISSION****TEST RESULT**

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	12.34	12.34	---	PASS
			30~1000	12.34	-64.46	≤-7.66	PASS
			1000~26500	12.34	-45.72	≤-7.66	PASS
		2440	Reference	10.46	10.46	---	PASS
			30~1000	10.46	-65.03	≤-9.54	PASS
			1000~26500	10.46	-45.79	≤-9.54	PASS
		2480	Reference	10.74	10.74	---	PASS
			30~1000	10.74	-55.82	≤-9.26	PASS
			1000~26500	10.74	-45.14	≤-9.26	PASS
BLE_2M	Ant1	2404	Reference	11.43	11.43	---	PASS
			30~1000	11.43	-64.75	≤-8.57	PASS
			1000~26500	11.43	-45.44	≤-8.57	PASS
		2440	Reference	7.98	7.98	---	PASS
			30~1000	7.98	-64.96	≤-12.02	PASS
			1000~26500	7.98	-45.03	≤-12.02	PASS
		2478	Reference	11.69	11.69	---	PASS
			30~1000	11.69	-64.55	≤-8.31	PASS
			1000~26500	11.69	-45.63	≤-8.31	PASS

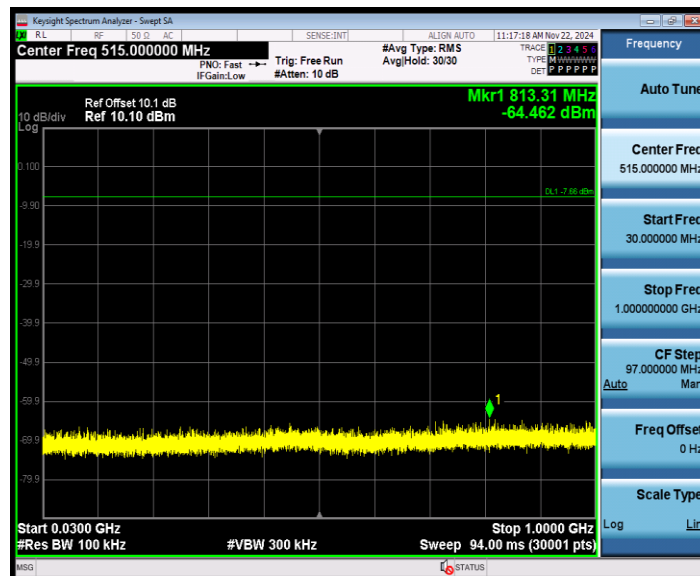


BUREAU VERITAS Test Report No.: W7L-241112W001RF02
TEST GRAPHS

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000

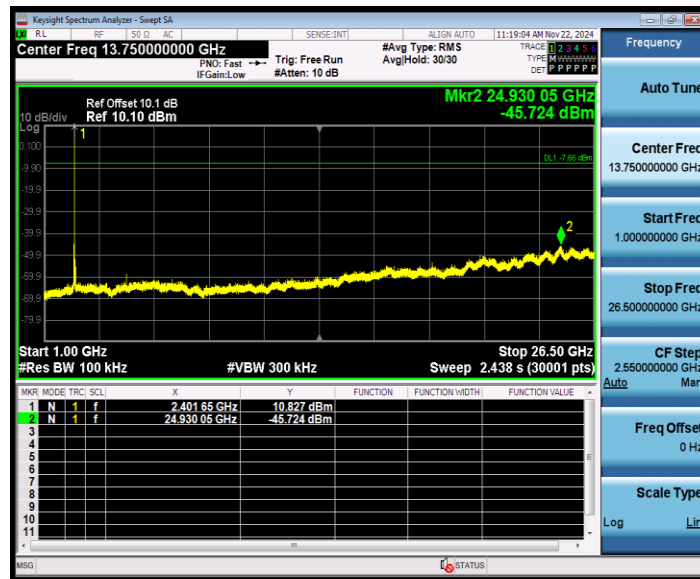


BLE_1M_Ant1_2402_1000~26500



BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_1M_Ant1_2440_0~Reference

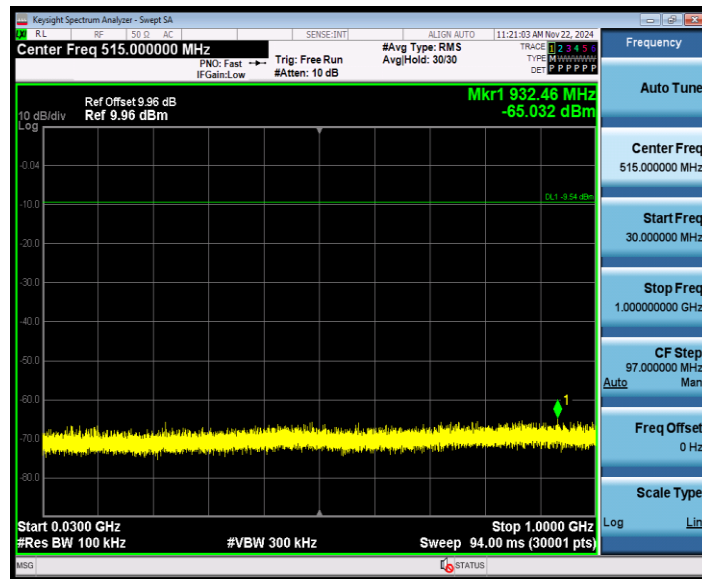


BLE_1M_Ant1_2440_30~1000

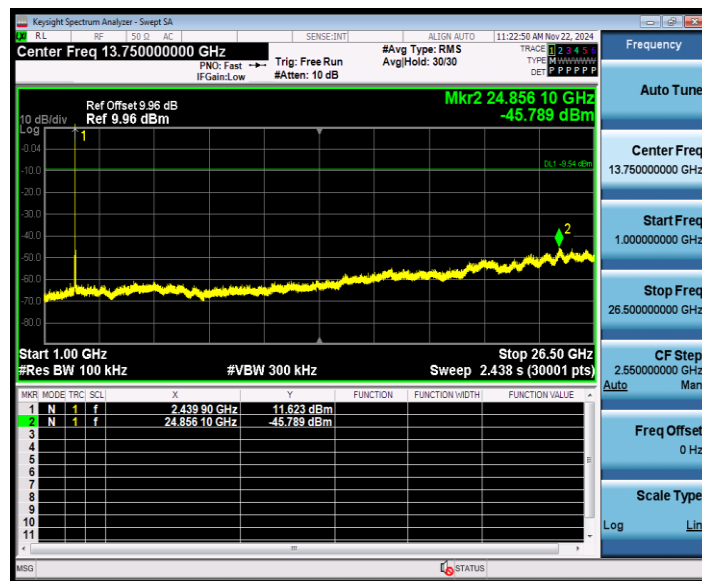


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

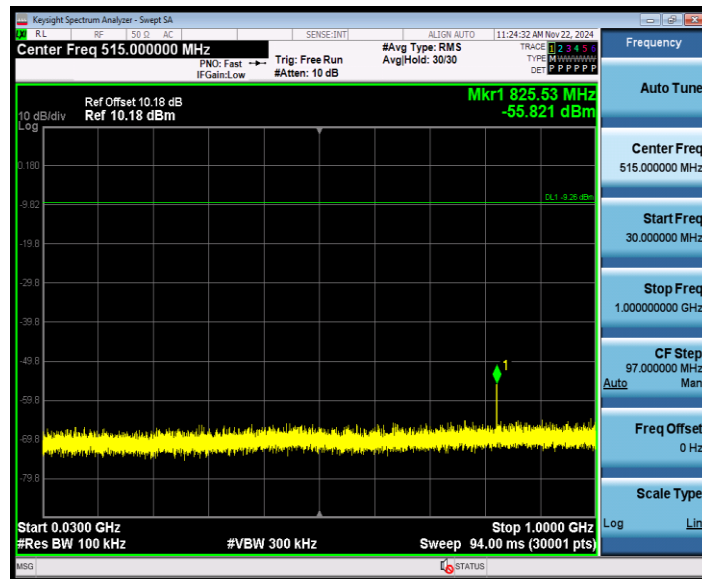


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_1M_Ant1_2480_30~1000

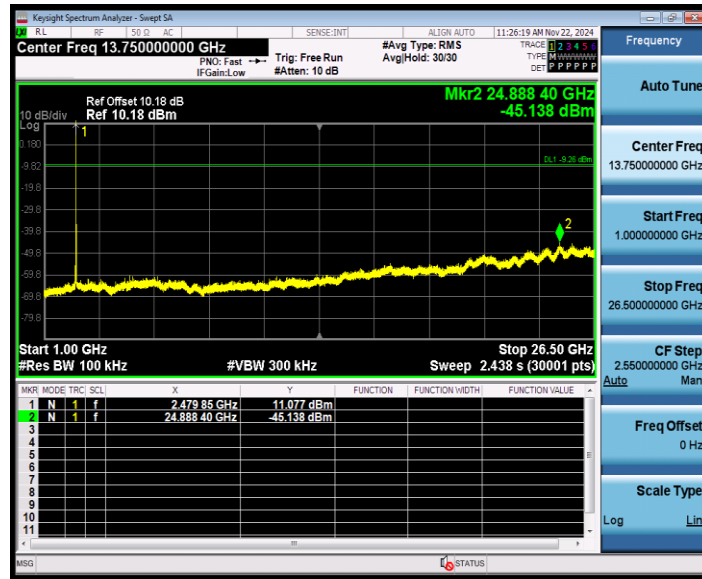


BLE_1M_Ant1_2480_1000~26500

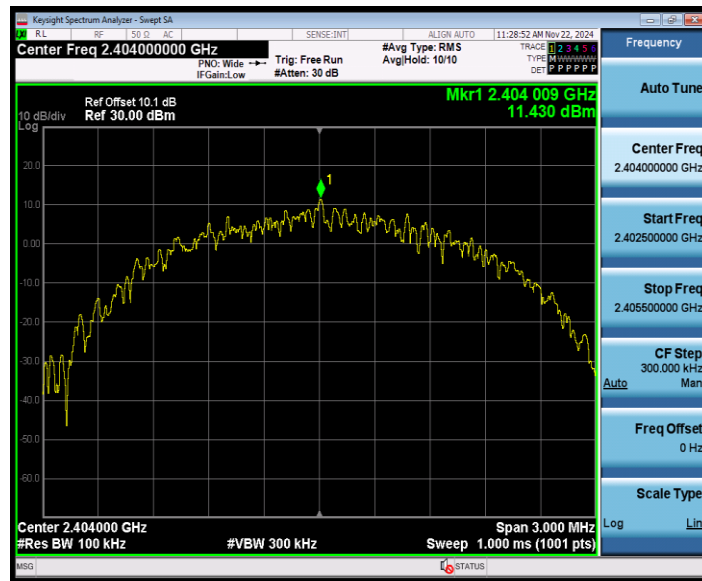


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2404_0~Reference

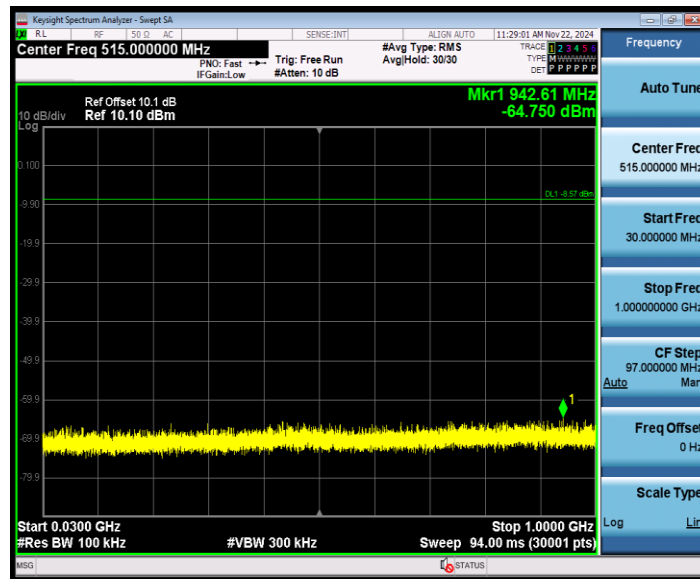


BLE_2M_Ant1_2404_30~1000



BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2404_1000~26500



BLE_2M_Ant1_2440_0~Reference

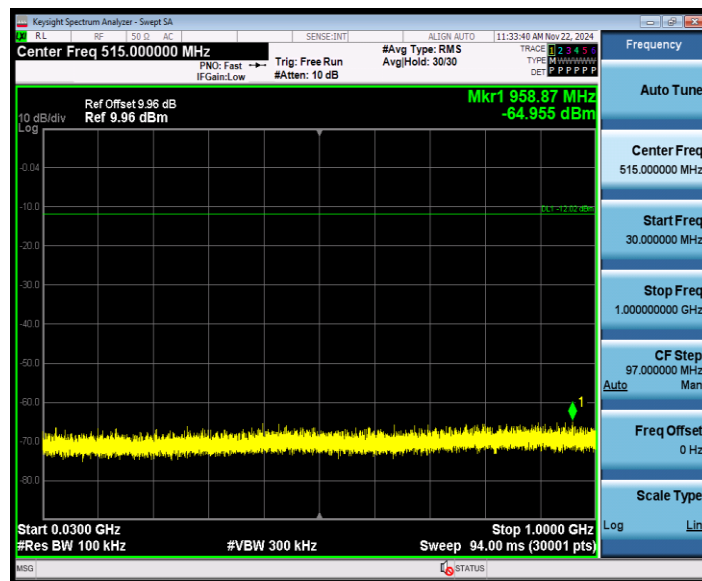


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2440_30~1000

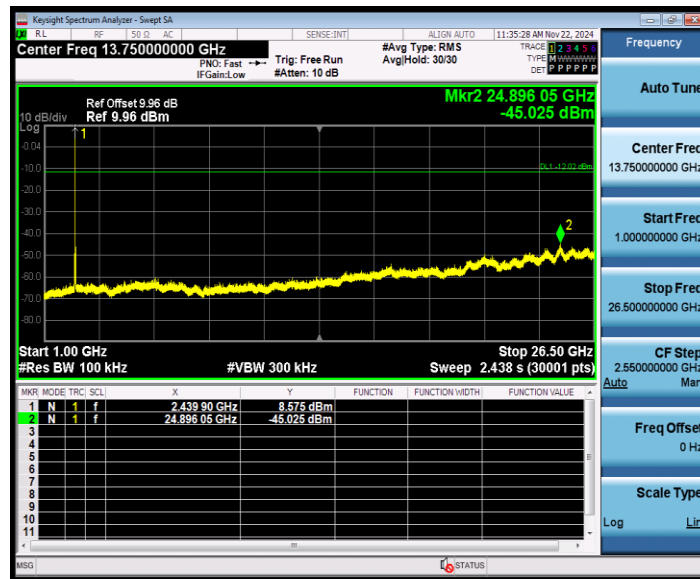


BLE_2M_Ant1_2440_1000~26500

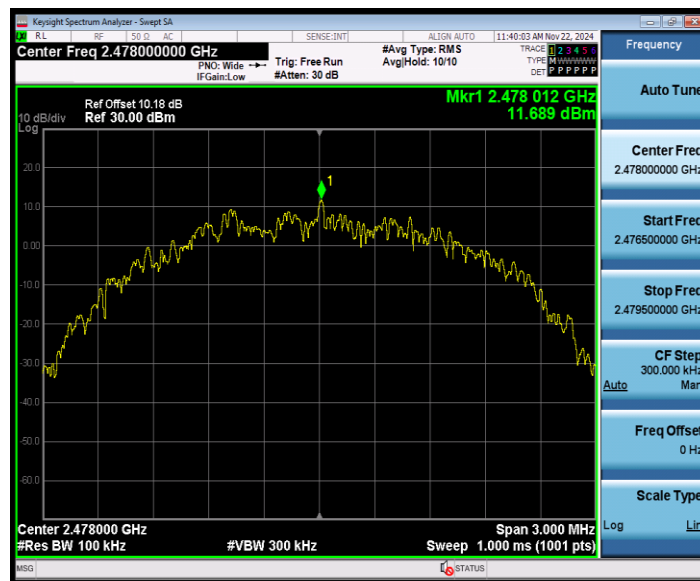


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2478_0~Reference

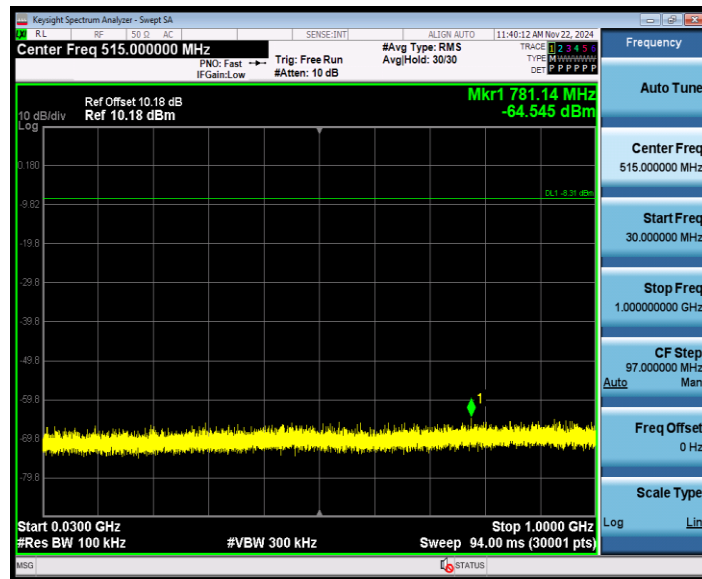


BLE_2M_Ant1_2478_30~1000



BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2478_1000~26500





BUREAU VERITAS Test Report No.: W7L-241112W001RF02

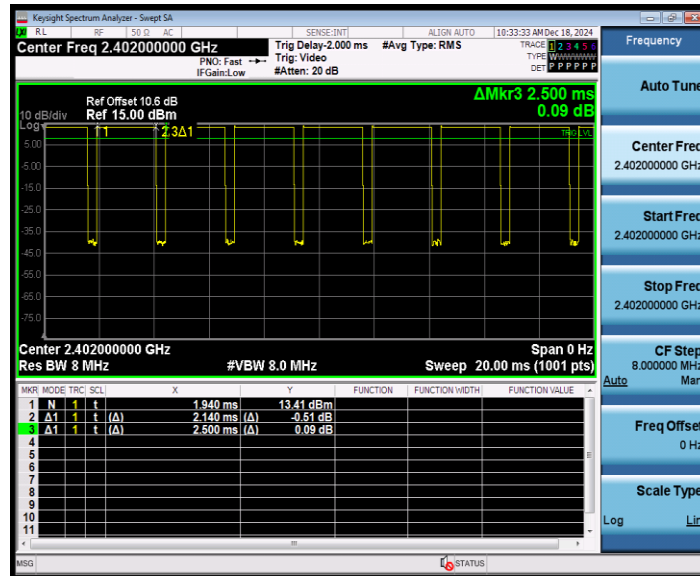
DUTY CYCLE

TEST RESULT

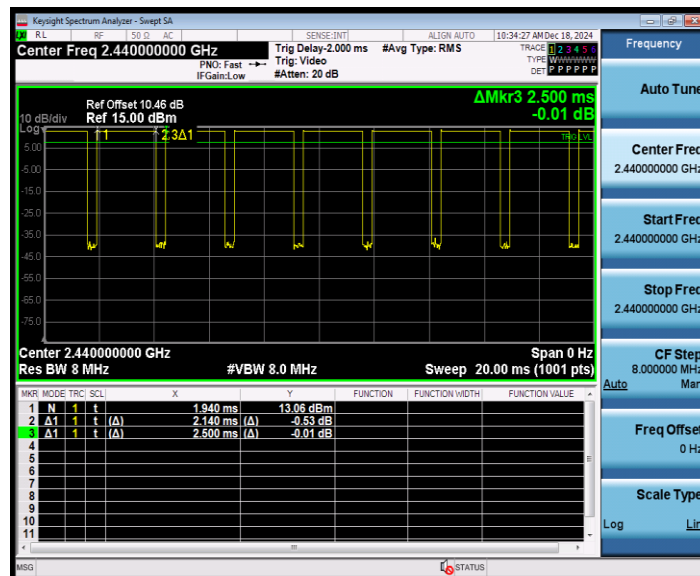
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.14	2.50	85.60	0.68
		2440	2.14	2.50	85.60	0.68
		2480	2.14	2.50	85.60	0.68
BLE_2M	Ant1	2404	1.08	1.88	57.45	2.41
		2440	1.08	1.88	57.45	2.41
		2478	1.08	1.88	57.45	2.41

TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

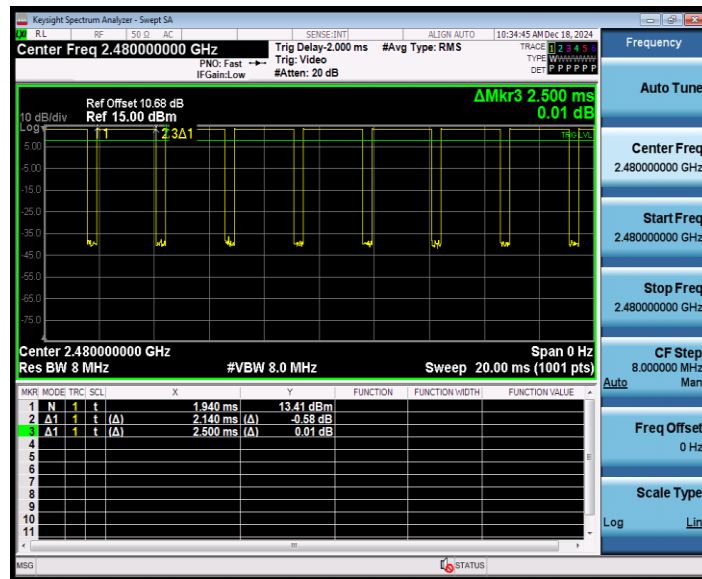


BLE_1M_Ant1_2480

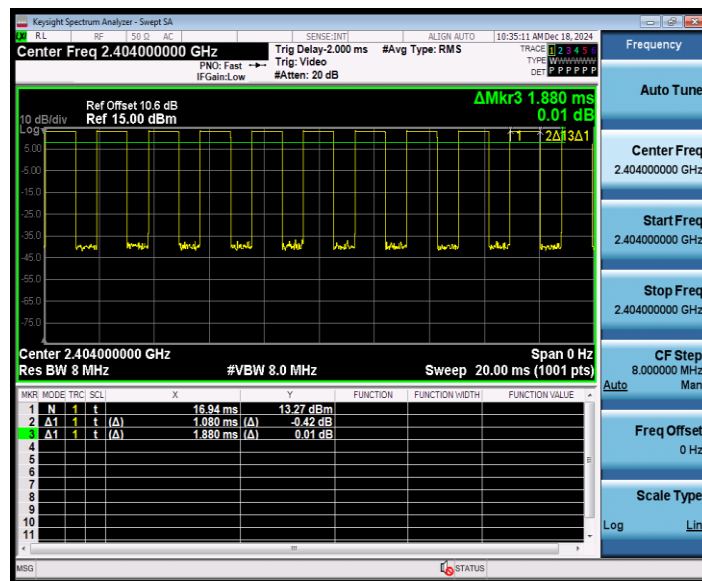


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2404

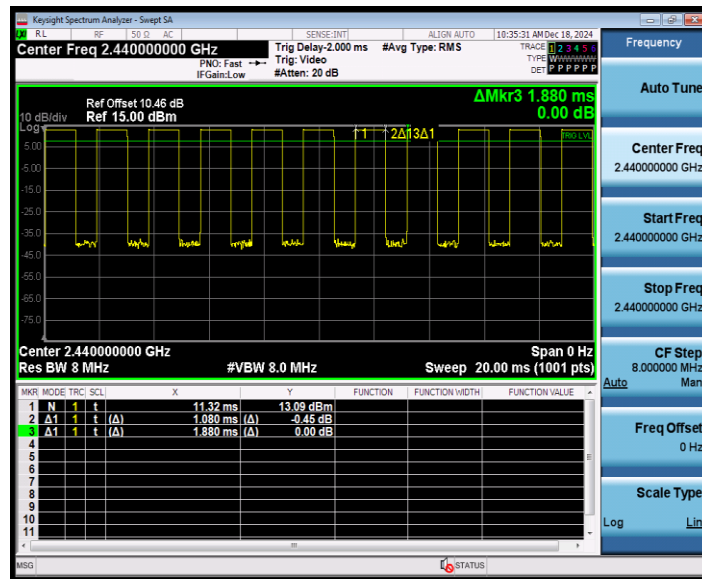


BLE_2M_Ant1_2440

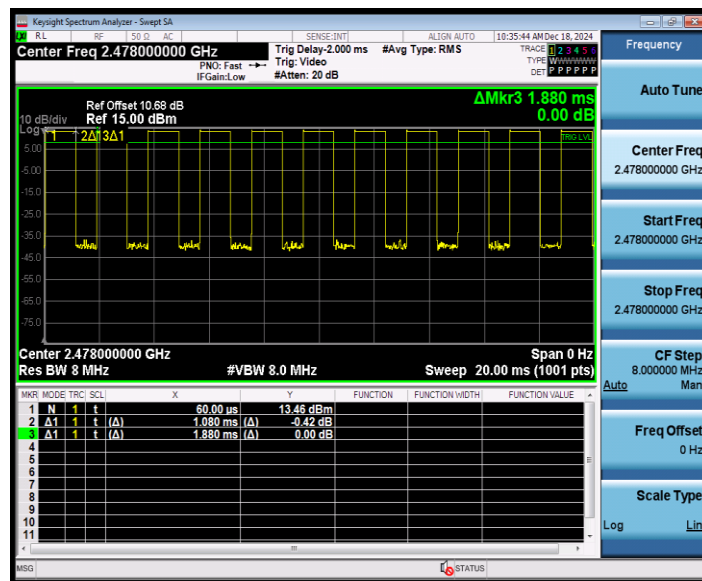


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2478





LEFT

DTS BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.220	2401.404	2402.624	0.5	PASS
		2440	1.224	2439.404	2440.628	0.5	PASS
		2480	1.220	2479.404	2480.624	0.5	PASS
BLE_2M	Ant1	2404	1.716	2403.152	2404.868	0.5	PASS
		2440	1.720	2439.148	2440.868	0.5	PASS
		2478	1.728	2477.144	2478.872	0.5	PASS



BUREAU VERITAS Test Report No.: W7L-241112W001RF02
TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

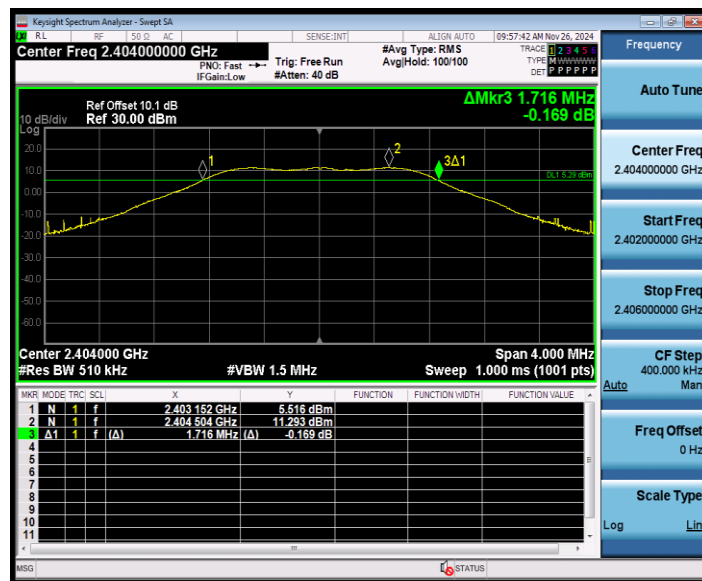


BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2478





Test Report No.: W7L-241112W001RF02

OCCUPIED CHANNEL BANDWIDTH

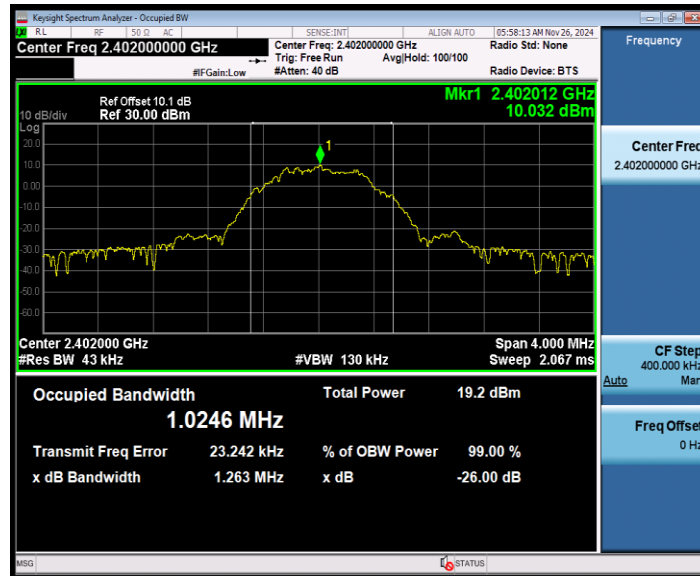
TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0246	2401.5109	2402.5355	---	---
		2440	1.0448	2439.5073	2440.5521	---	---
		2480	1.0444	2479.5061	2480.5505	---	---
BLE_2M	Ant1	2404	2.0642	2402.9985	2405.0627	---	---
		2440	2.0755	2438.9885	2441.0640	---	---
		2478	2.0745	2476.9908	2479.0653	---	---

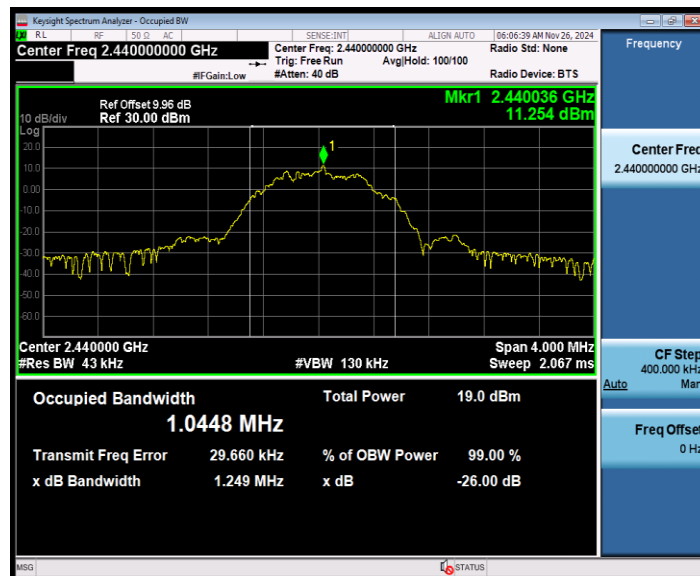


BUREAU VERITAS Test Report No.: W7L-241112W001RF02
TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



BUREAU
VERITAS

Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2478





Test Report No.: W7L-241112W001RF02

MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

TestMode	Antenna	Channel	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdict	Power Setting
BLE_1M	Ant1	2402	12.22	12.35	17.18	≤30	5.29	3.38	≤36	PASS	Default
		2440	12.26	12.38	17.30	≤30	5.32	3.40	≤36	PASS	Default
		2480	12.28	12.40	17.38	≤30	5.34	3.42	≤36	PASS	Default
BLE_2M	Ant1	2404	11.47	12.29	16.94	≤30	5.23	3.33	≤36	PASS	Default
		2440	11.88	12.37	17.26	≤30	5.31	3.40	≤36	PASS	Default
		2478	12.33	12.43	17.50	≤30	5.37	3.44	≤36	PASS	Default
Note:EIRP=Peak Power+Gain											



MAXIMUM POWER SPECTRAL DENSITY

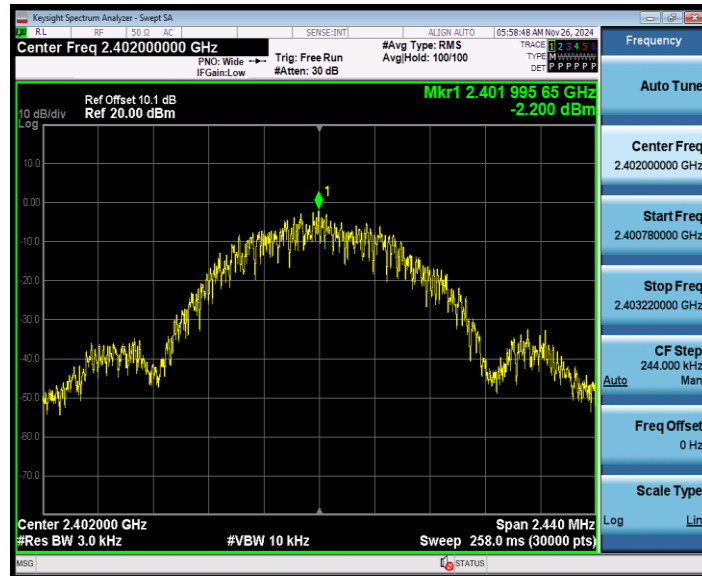
TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-2.20	≤8.00	PASS
		2440	-2.69	≤8.00	PASS
		2480	-2.15	≤8.00	PASS
BLE_2M	Ant1	2404	-6.70	≤8.00	PASS
		2440	-7.18	≤8.00	PASS
		2478	-6.27	≤8.00	PASS

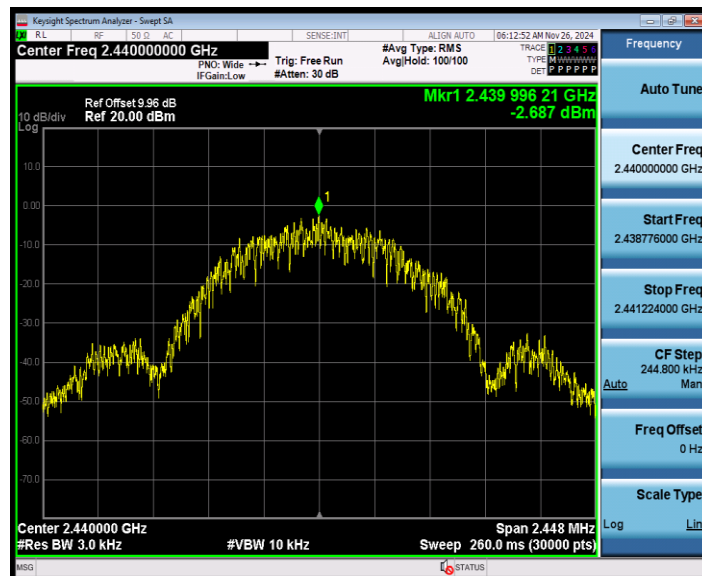


BUREAU VERITAS Test Report No.: W7L-241112W001RF02
TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



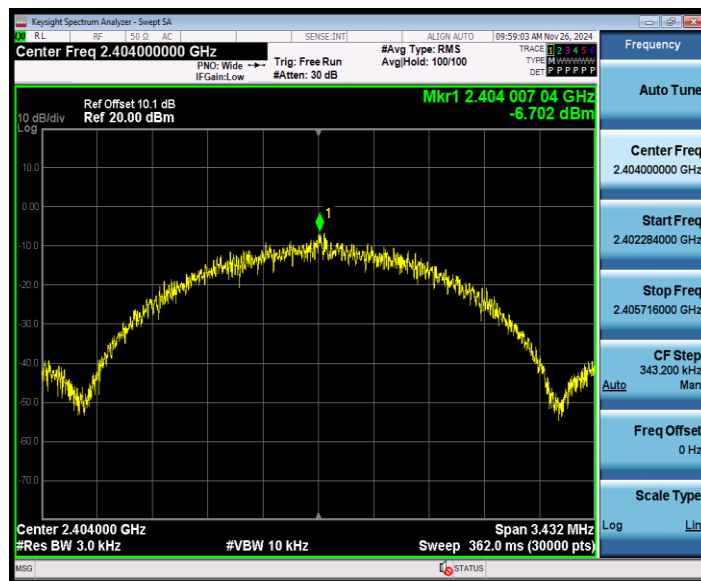
BLE_1M_Ant1_2480



BUREAU VERITAS Test Report No.: W7L-241112W001RF02



BLE_2M_Ant1_2404



BLE_2M_Ant1_2440