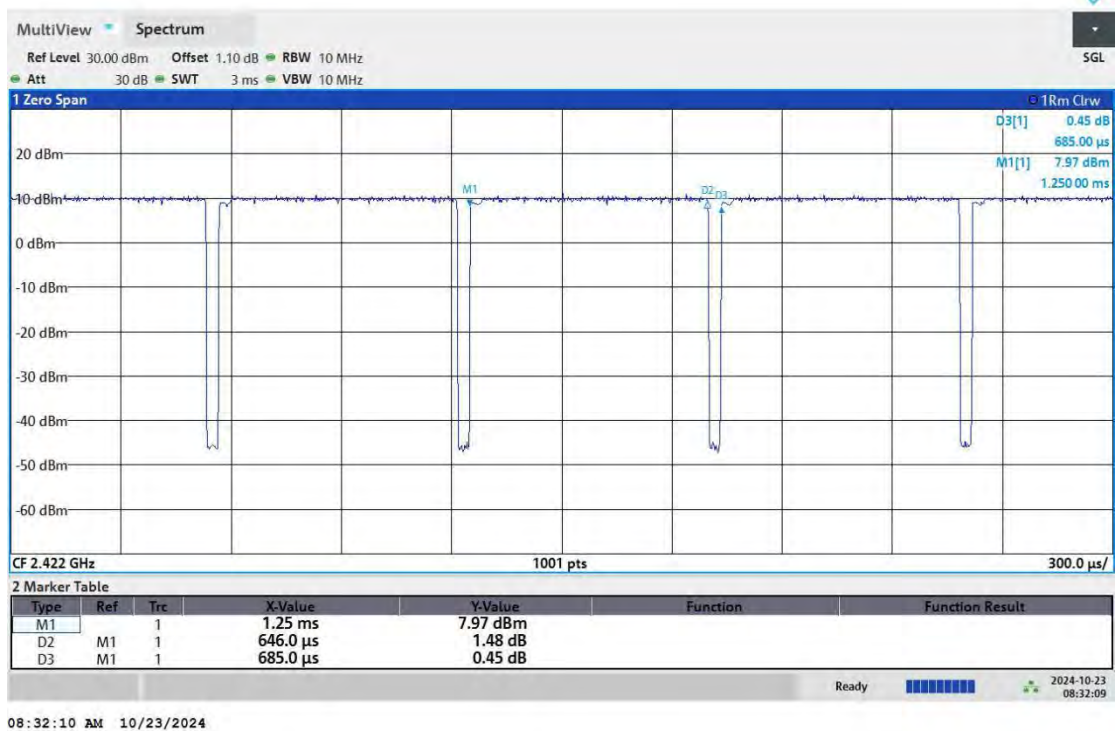


11N40_ANT6_2422

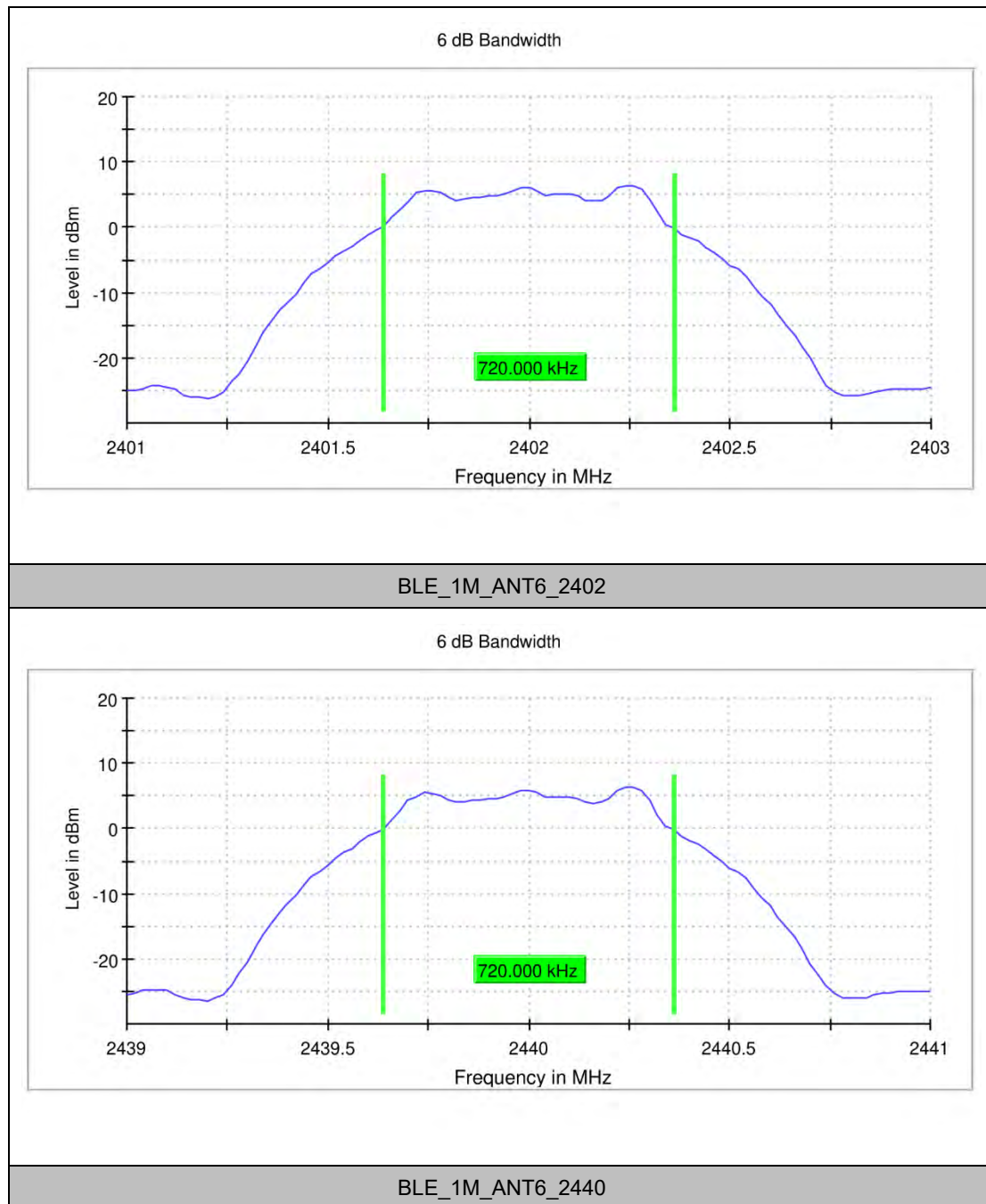


7 APPENDIX B:BLE

DTS BANDWIDTH

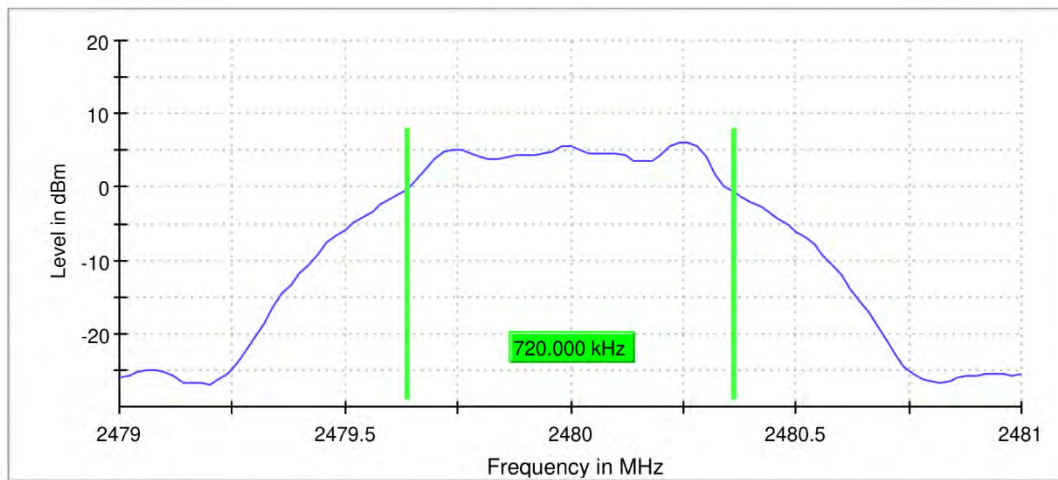
TEST RESULT

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	ANT6	2402	0.720	2401.640	2402.360	0.5	PASS
		2440	0.720	2439.640	2440.360	0.5	PASS
		2480	0.720	2479.640	2480.360	0.5	PASS
BLE_2M	ANT6	2404	1.280	2403.360	2404.640	0.5	PASS
		2440	1.280	2439.360	2440.640	0.5	PASS
		2478	1.280	2477.360	2478.640	0.5	PASS
BLE-S2	ANT6	2402	0.720	2401.640	2402.360	0.5	PASS
		2440	0.720	2439.640	2440.360	0.5	PASS
		2480	0.720	2479.640	2480.360	0.5	PASS
BLE_S8	ANT6	2402	0.760	2401.620	2402.380	0.5	PASS
		2440	0.760	2439.620	2440.380	0.5	PASS
		2480	0.760	2479.620	2480.380	0.5	PASS



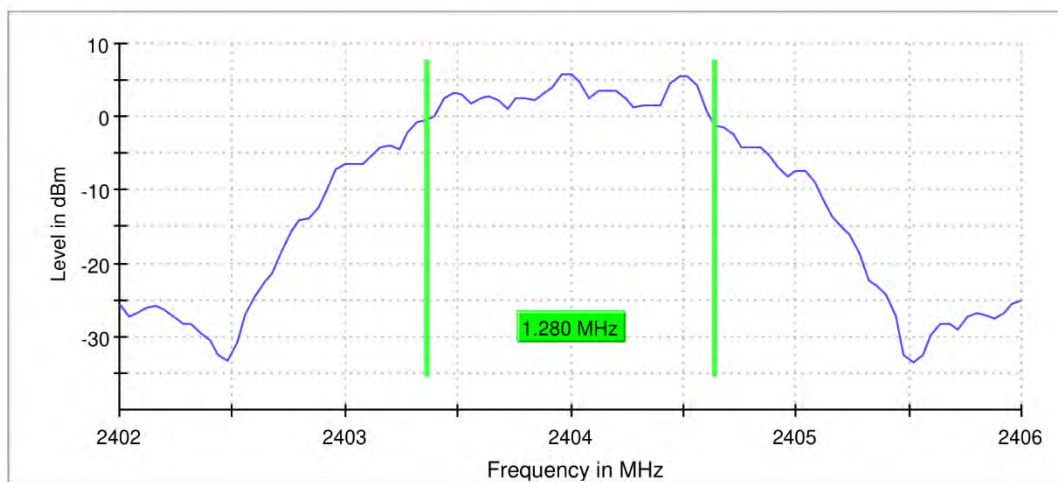


6 dB Bandwidth

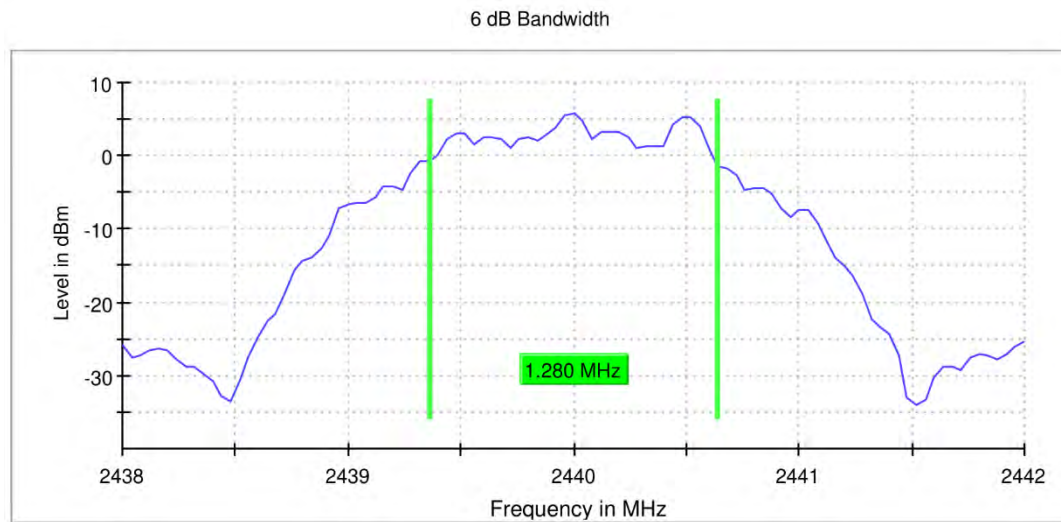


BLE_1M_ANT6_2480

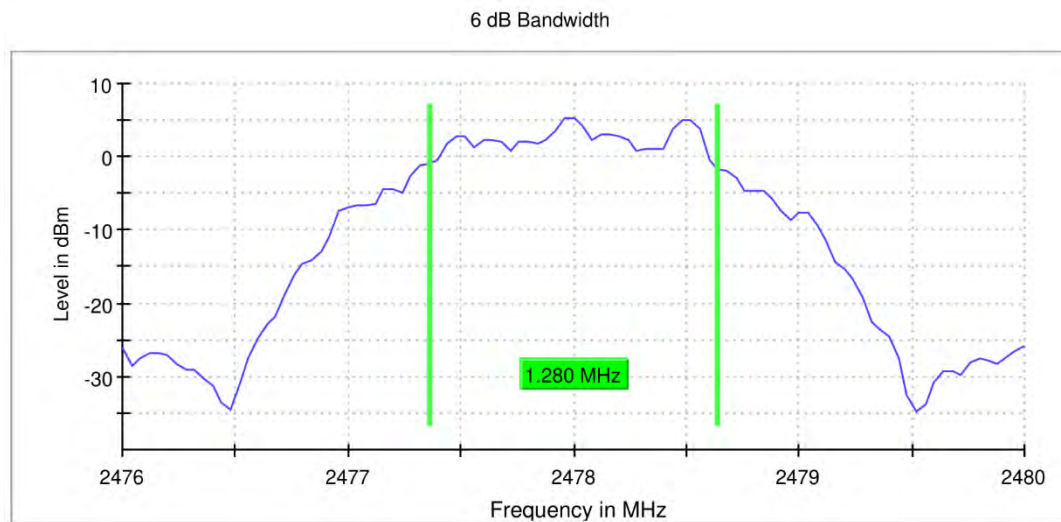
6 dB Bandwidth



BLE_2M_ANT6_2404



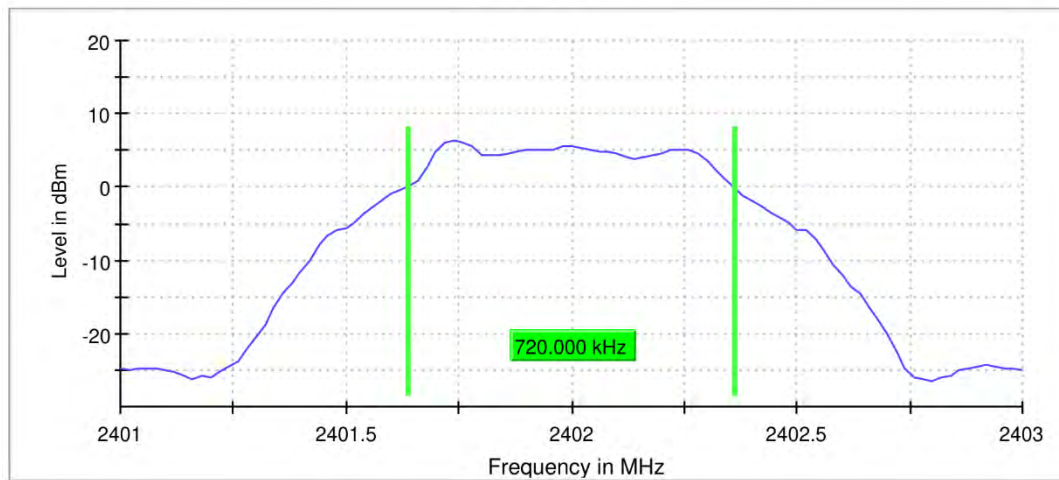
BLE_2M_ANT6_2440



BLE_2M_ANT6_2478

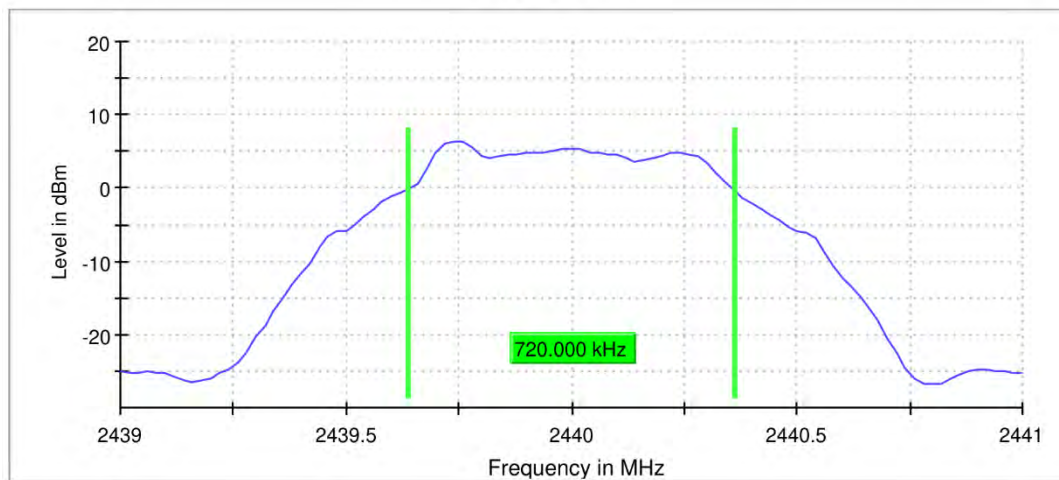


6 dB Bandwidth



BLE_S2_ANT6_2402

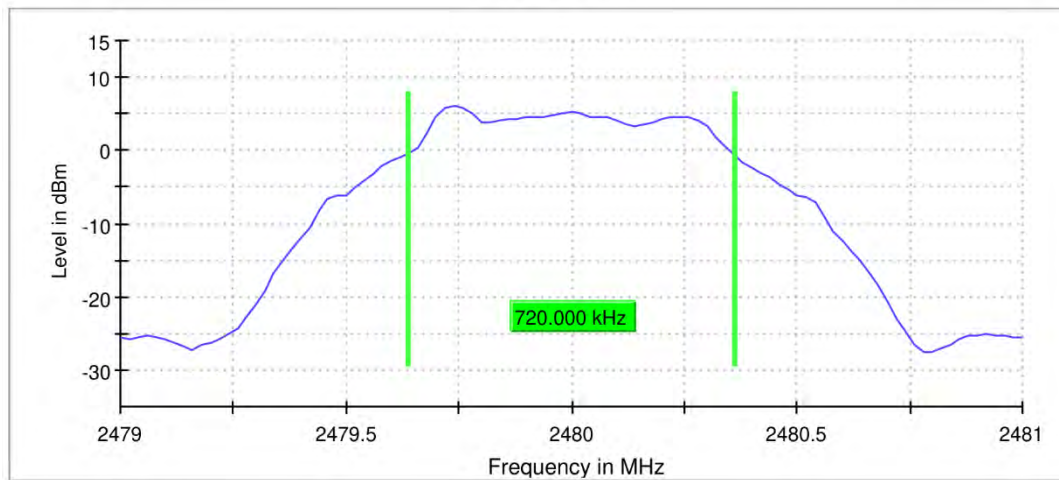
6 dB Bandwidth



BLE_S2_ANT6_2440

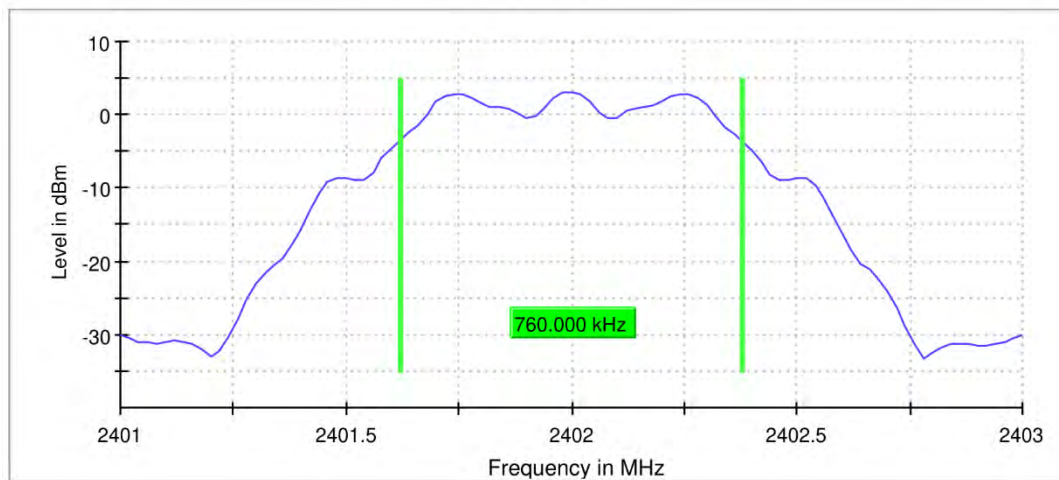


6 dB Bandwidth



BLE_S2_ANT6_2480

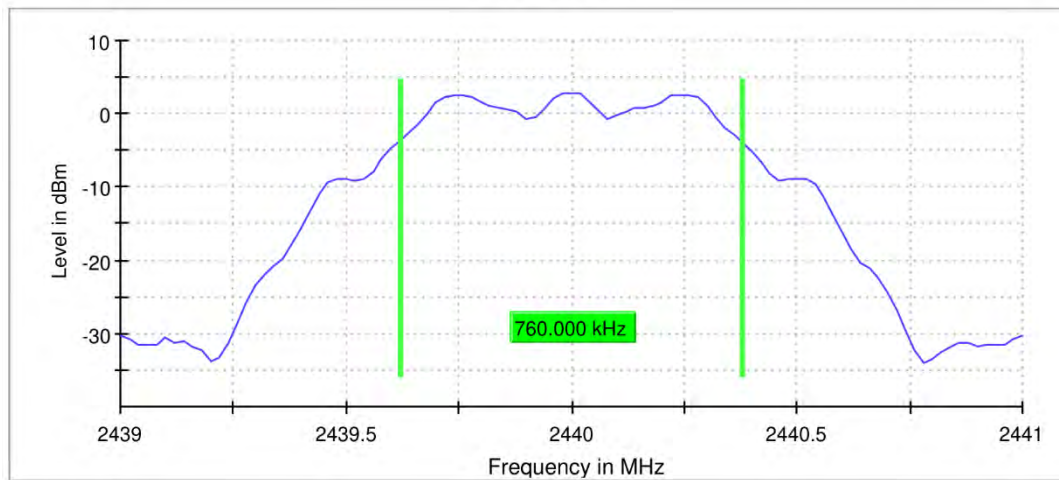
6 dB Bandwidth



BLE_S8_ANT6_2402

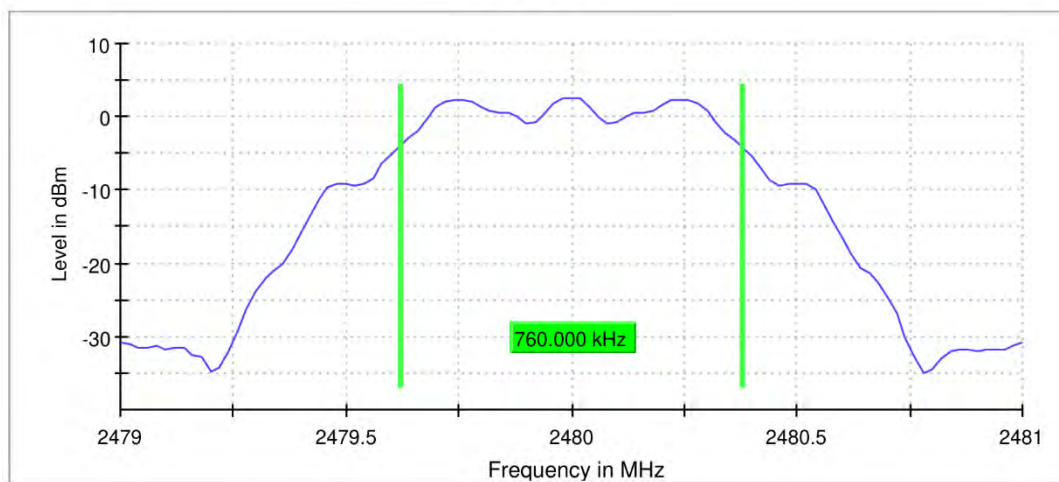


6 dB Bandwidth



BLE_S8_ANT6_2440

6 dB Bandwidth



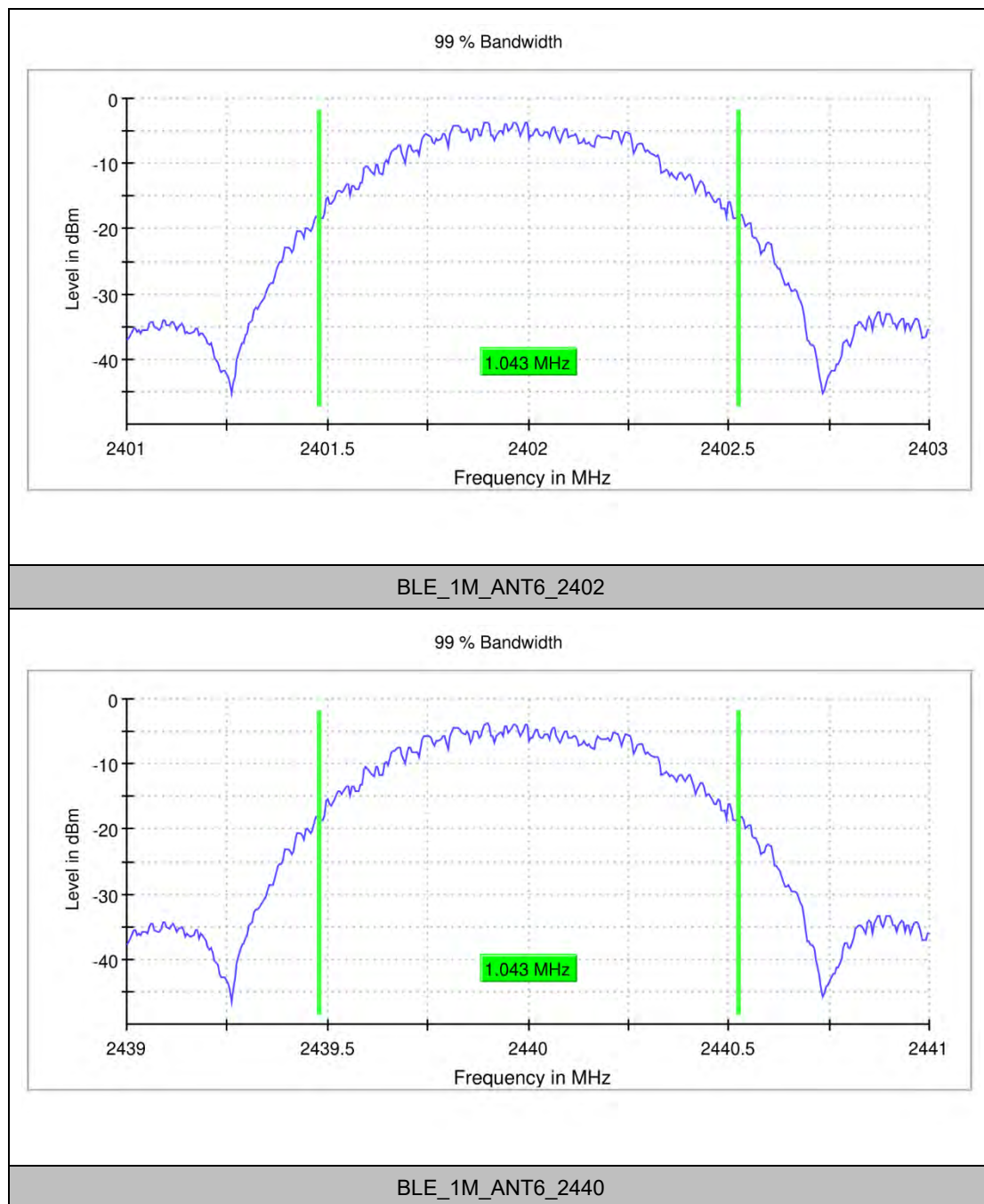
BLE_S8_ANT6_2480

RBW 100.000 kHz

VBW 300.000 kHz

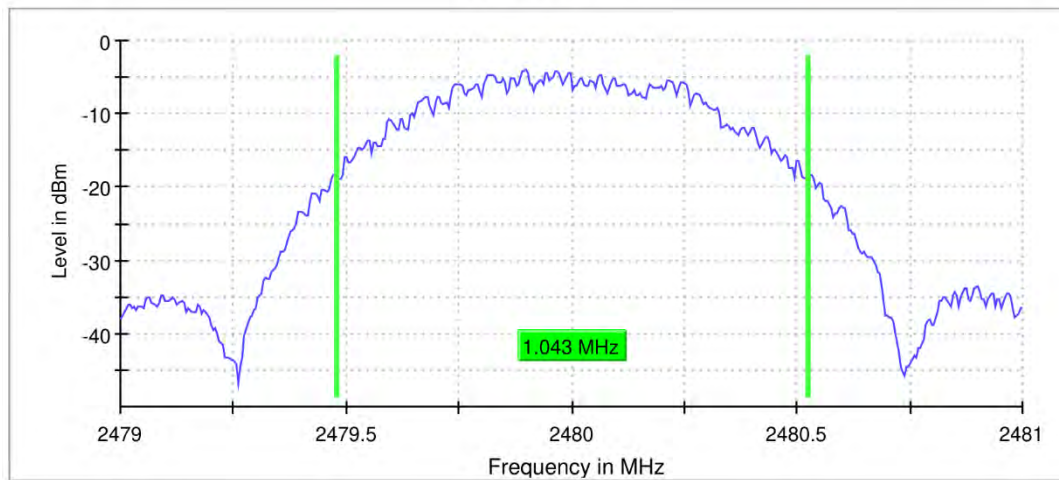
**OCCUPIED CHANNEL BANDWIDTH****TEST RESULT**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	ANT6	2402	1.043	2401.481	2402.524	2400-24835	PASS
		2440	1.043	2439.481	2440.524	2400-24835	PASS
		2480	1.043	2479.481	2480.524	2400-24835	PASS
BLE_2M	ANT6	2404	2.075	2402.972	2405.047	2400-24835	PASS
		2440	2.075	2438.972	2441.047	2400-24835	PASS
		2478	2.075	2476.972	2479.047	2400-24835	PASS
BLE-S2	ANT6	2402	1.033	2401.481	2402.514	2400-24835	PASS
		2440	1.033	2439.481	2440.514	2400-24835	PASS
		2480	1.033	2479.481	2480.514	2400-24835	PASS
BLE_S8	ANT6	2402	1.063	2401.466	2402.529	2400-24835	PASS
		2440	1.063	2439.466	2440.529	2400-24835	PASS
		2480	1.063	2479.466	2480.529	2400-24835	PASS



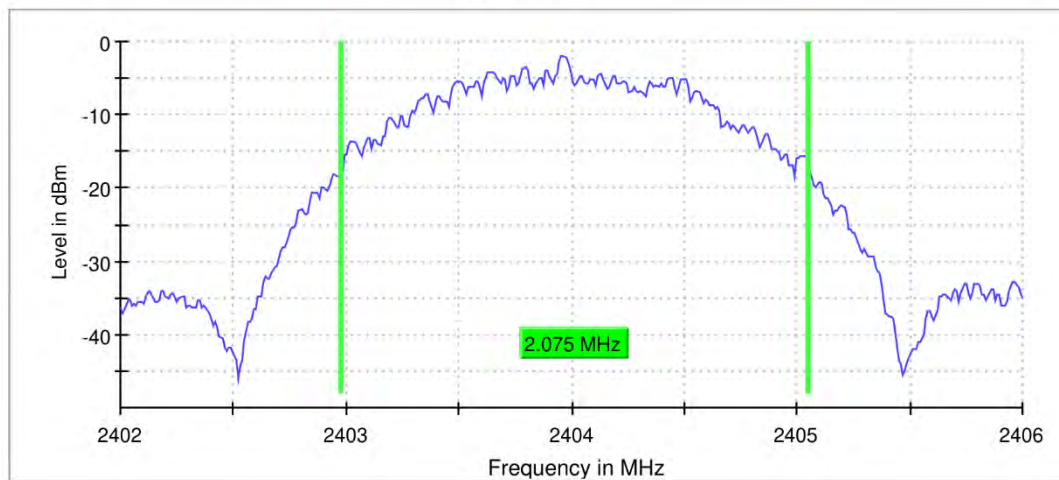


99 % Bandwidth



BLE_1M_ANT6_2480

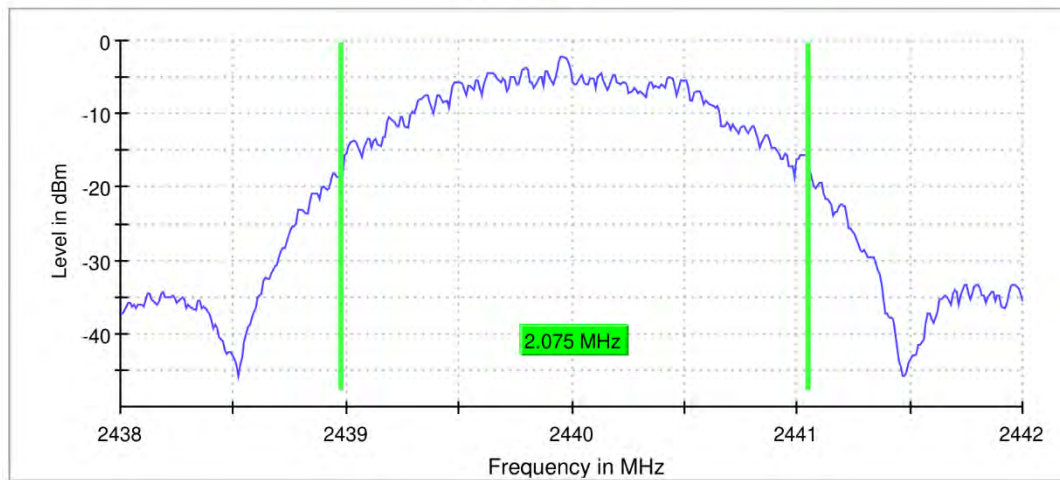
99 % Bandwidth



BLE_2M_ANT6_2404

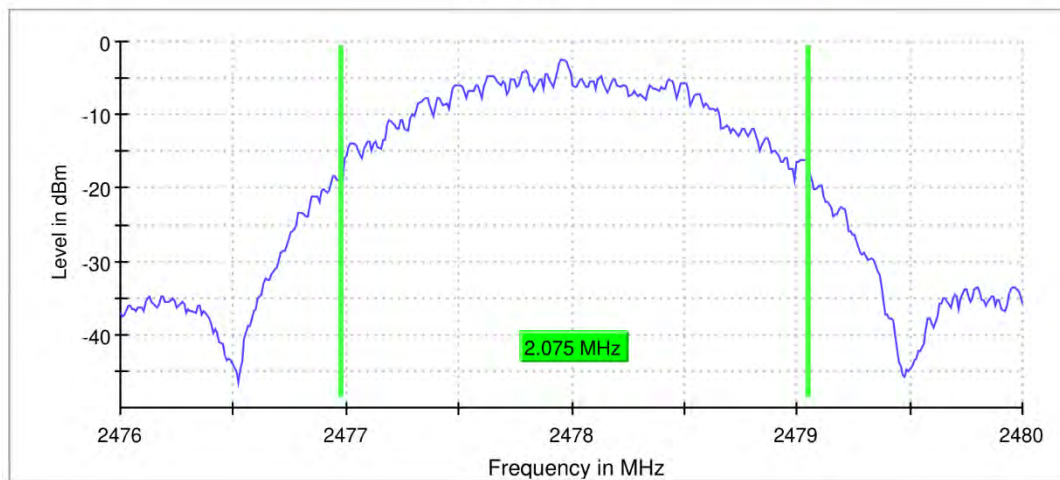


99 % Bandwidth



BLE_2M_ANT6_2440

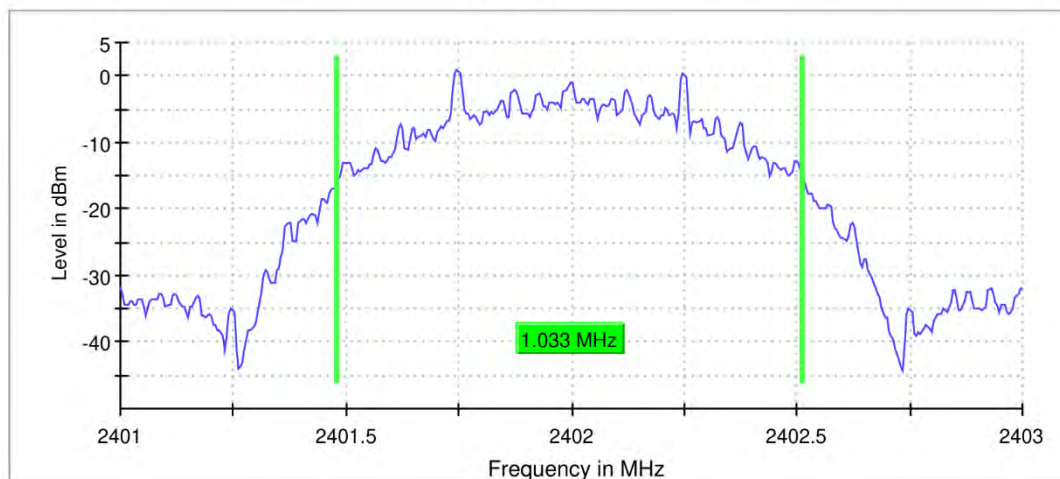
99 % Bandwidth



BLE_2M_ANT6_2478

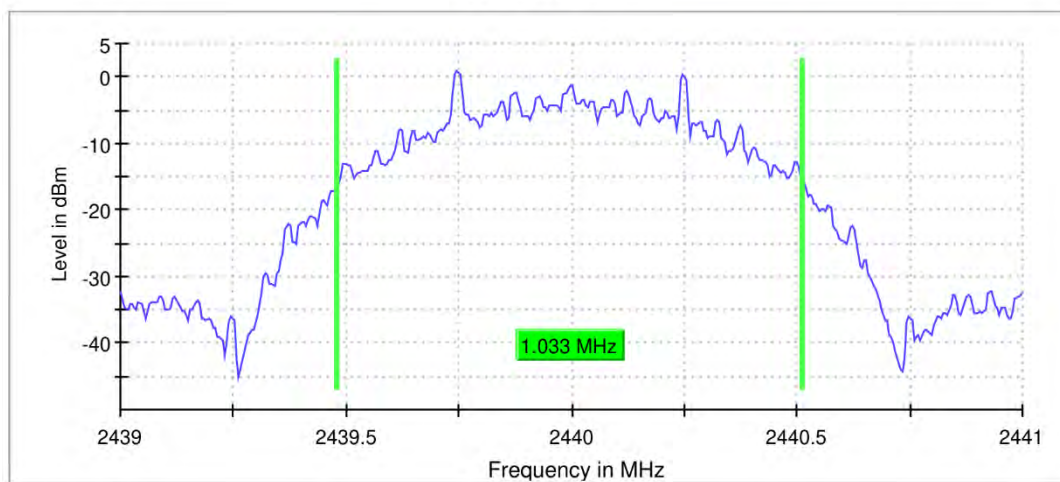


99 % Bandwidth



BLE_S2_ANT6_2402

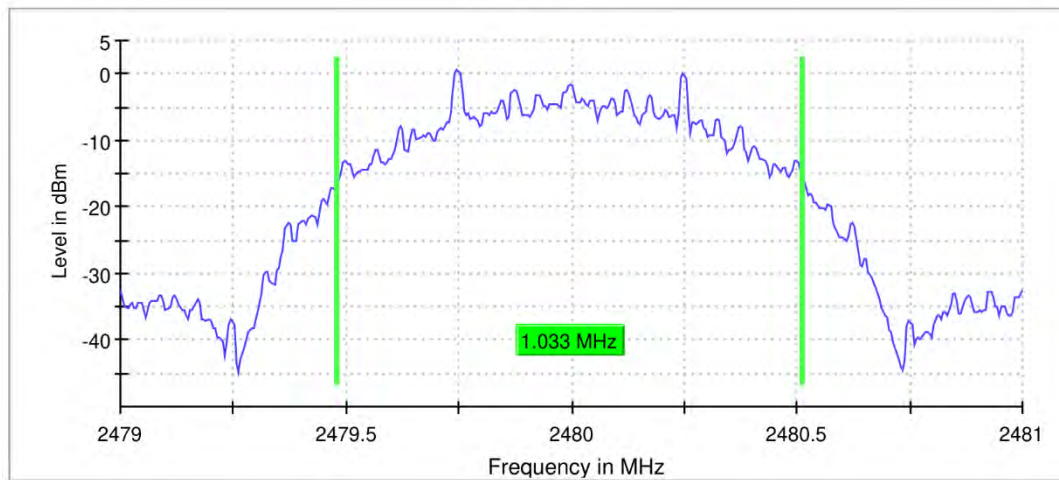
99 % Bandwidth



BLE_S2_ANT6_2440

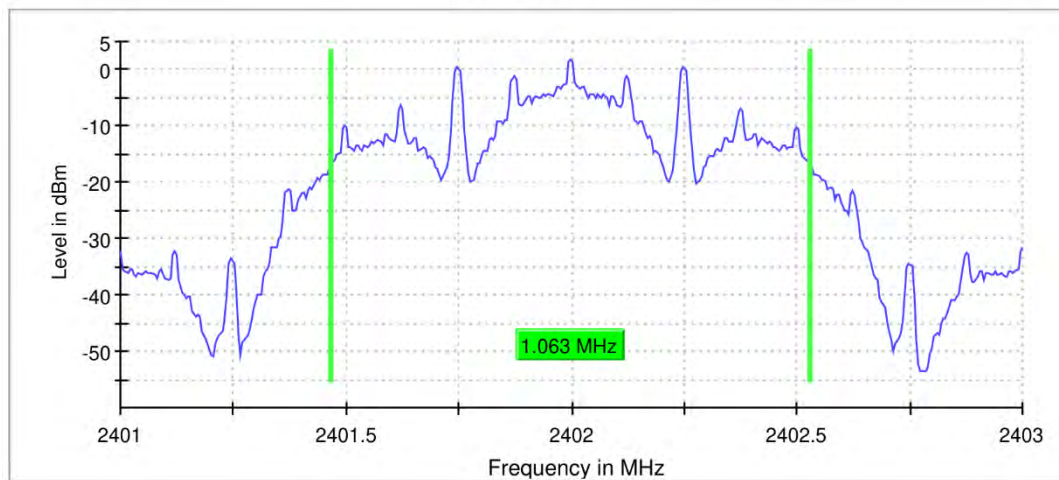


99 % Bandwidth



BLE_S2_ANT6_2480

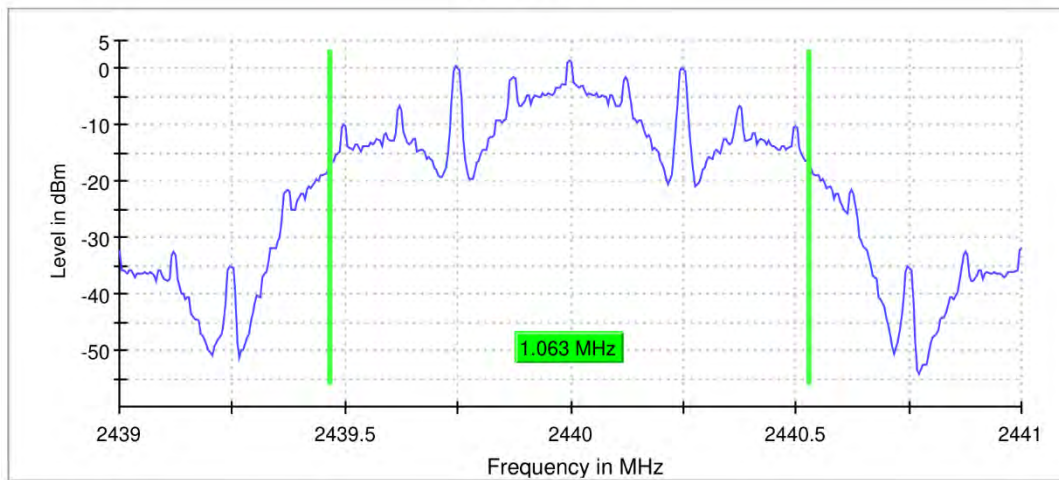
99 % Bandwidth



BLE_S8_ANT6_2402

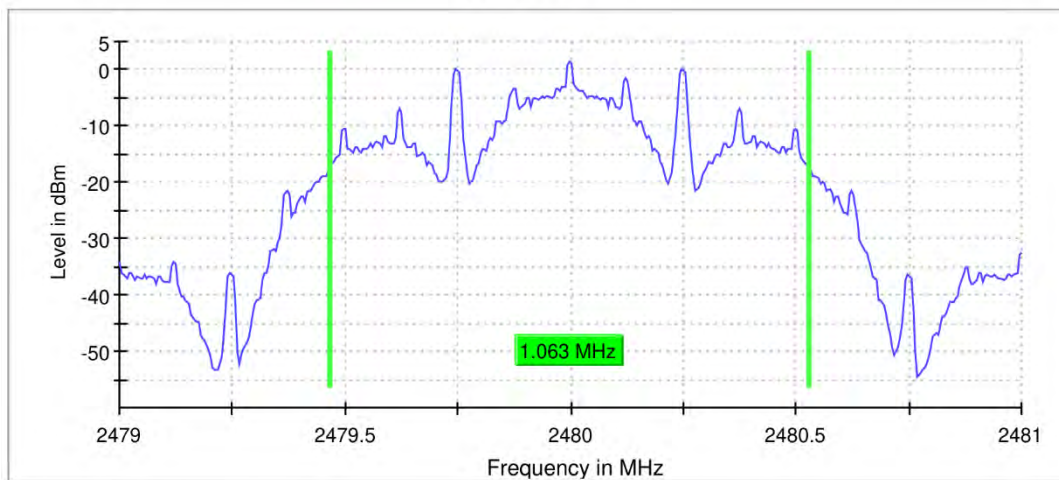


99 % Bandwidth



BLE_S8_ANT6_2440

99 % Bandwidth



BLE_S8_ANT6_2480

RBW 30.000 kHz

VBW 100.000 kHz

**MAXIMUM CONDUCTED OUTPUT POWER****TEST RESULT**

TestMode	Antenna	Channel	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Limit [dBm]	Verdict	Power Setting
BLE_1M	ANT6	2402	5.41	5.97	3.95	≤30	PASS	7
		2440	5.37	5.94	3.93	≤30	PASS	7
		2480	5.14	5.76	3.77	≤30	PASS	7
BLE_2M	ANT6	2402	5.46	5.90	3.89	≤30	PASS	7
		2440	5.41	5.98	3.96	≤30	PASS	7
		2480	5.19	5.79	3.79	≤30	PASS	7
BLE_125k	ANT6	2402	5.38	5.94	3.93	≤30	PASS	7
		2440	5.33	5.99	3.97	≤30	PASS	7
		2480	5.09	5.73	3.74	≤30	PASS	7
BLE_500K	ANT6	2402	5.41	5.97	3.95	≤30	PASS	7
		2440	5.36	5.94	3.93	≤30	PASS	7
		2480	5.11	5.75	3.76	≤30	PASS	7

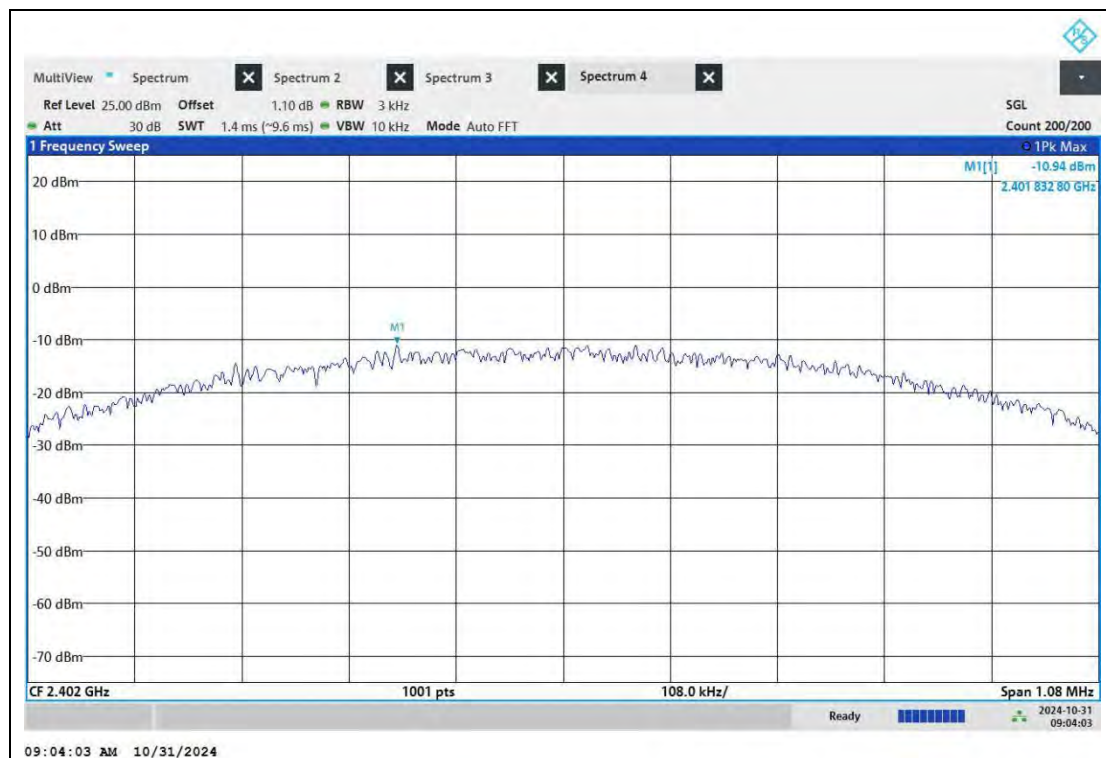
MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

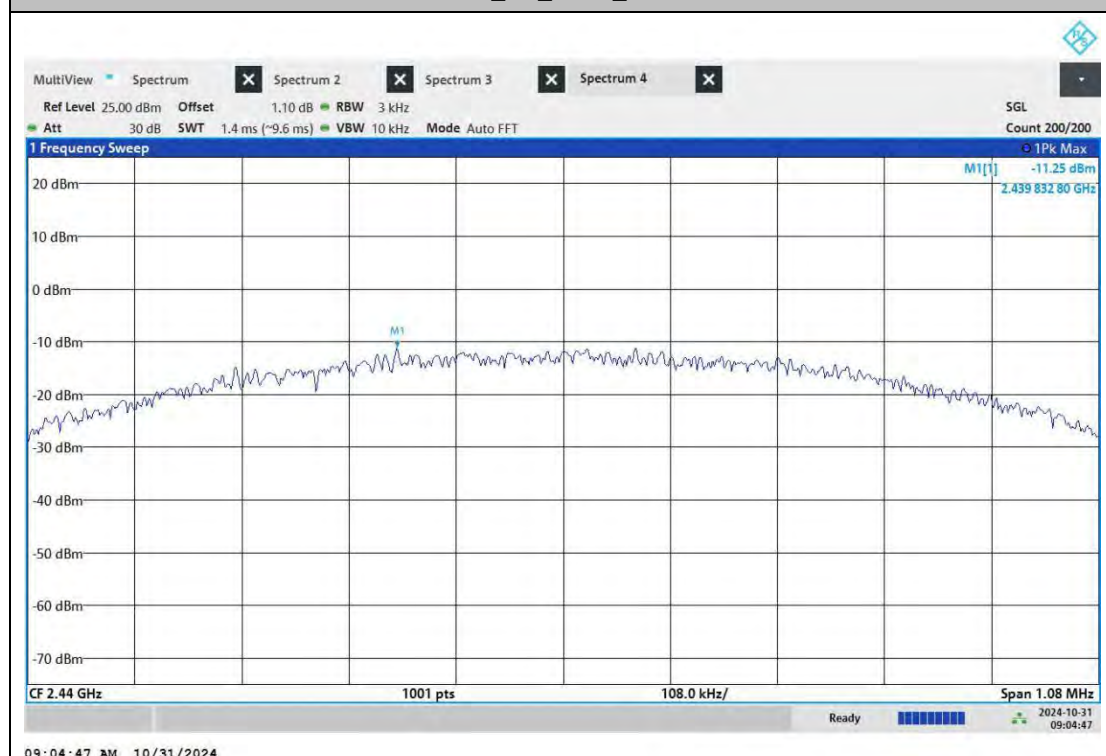
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	ANT6	2402	-10.94	≤8	PASS
		2440	-11.25	≤8	PASS
		2480	-11.49	≤8	PASS
BLE_2M	ANT6	2404	-13.02	≤8	PASS
		2440	-13.30	≤8	PASS
		2478	-13.42	≤8	PASS
BLE_S2	ANT6	2402	-1.64	≤8	PASS
		2440	-1.15	≤8	PASS
		2480	-1.06	≤8	PASS
BLE_S8	ANT6	2402	-0.37	≤8	PASS
		2440	-0.65	≤8	PASS
		2480	-0.80	≤8	PASS



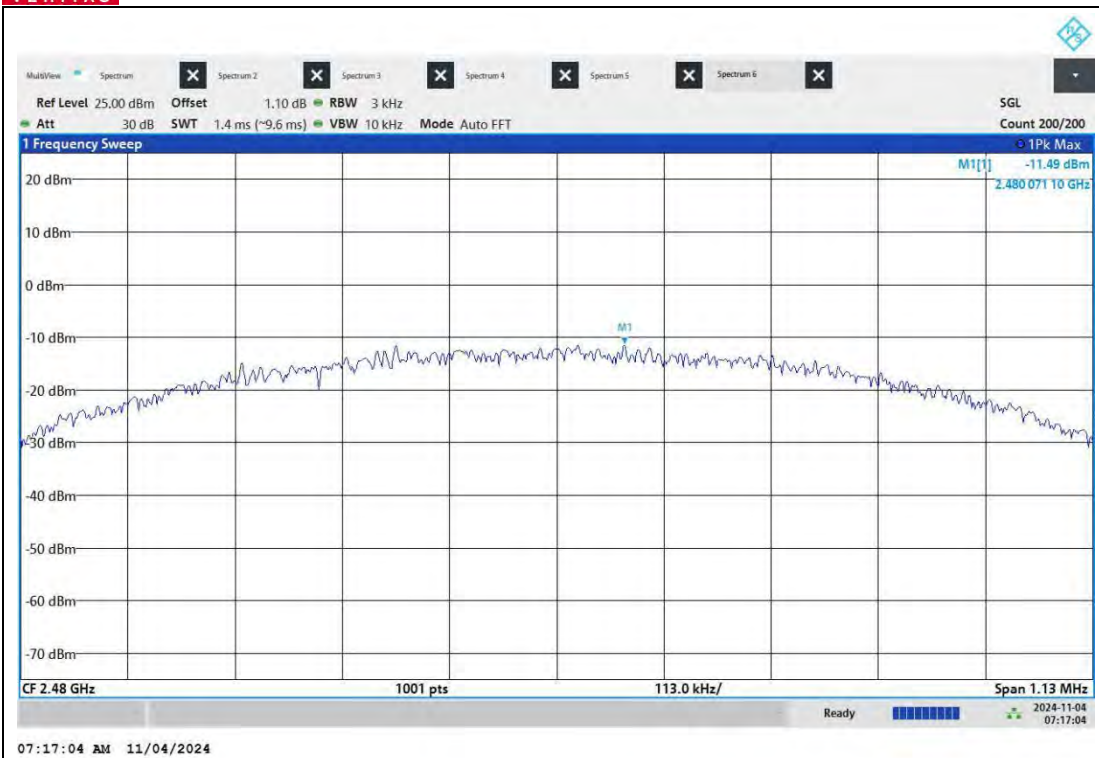
BUREAU VERITAS Test Report No.: PSU-QBJ2409140110RF06
TEST GRAPHS



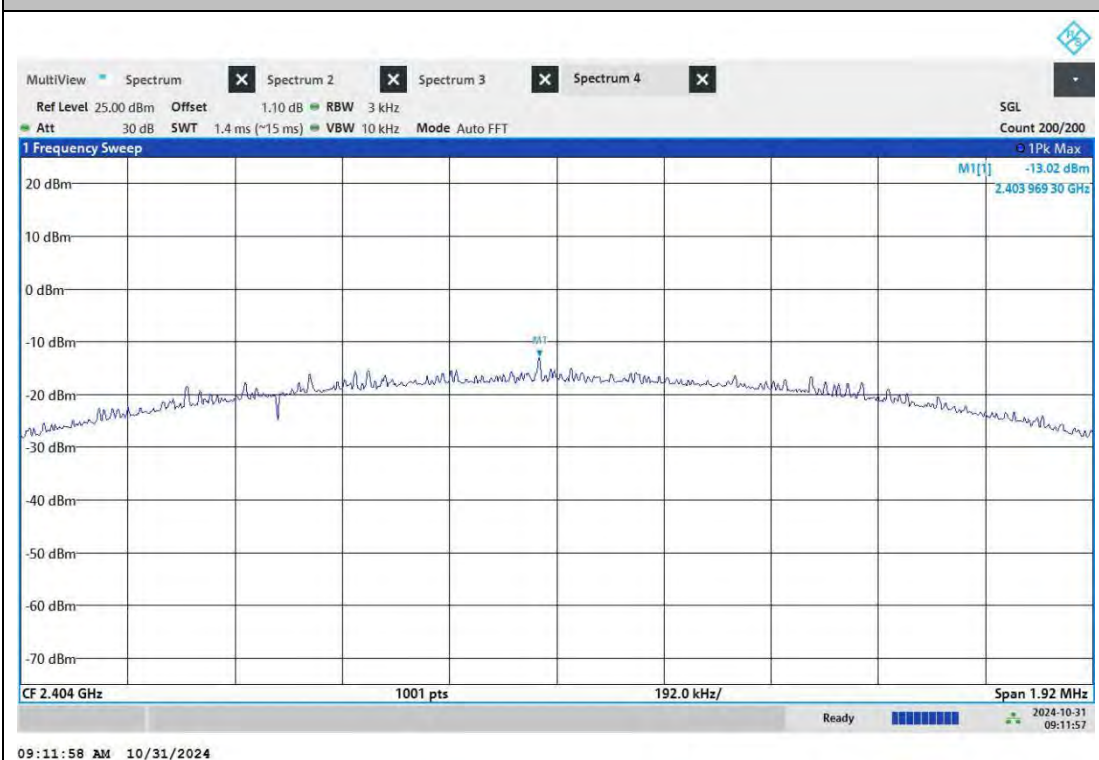
BLE_1M_ANT6_2402



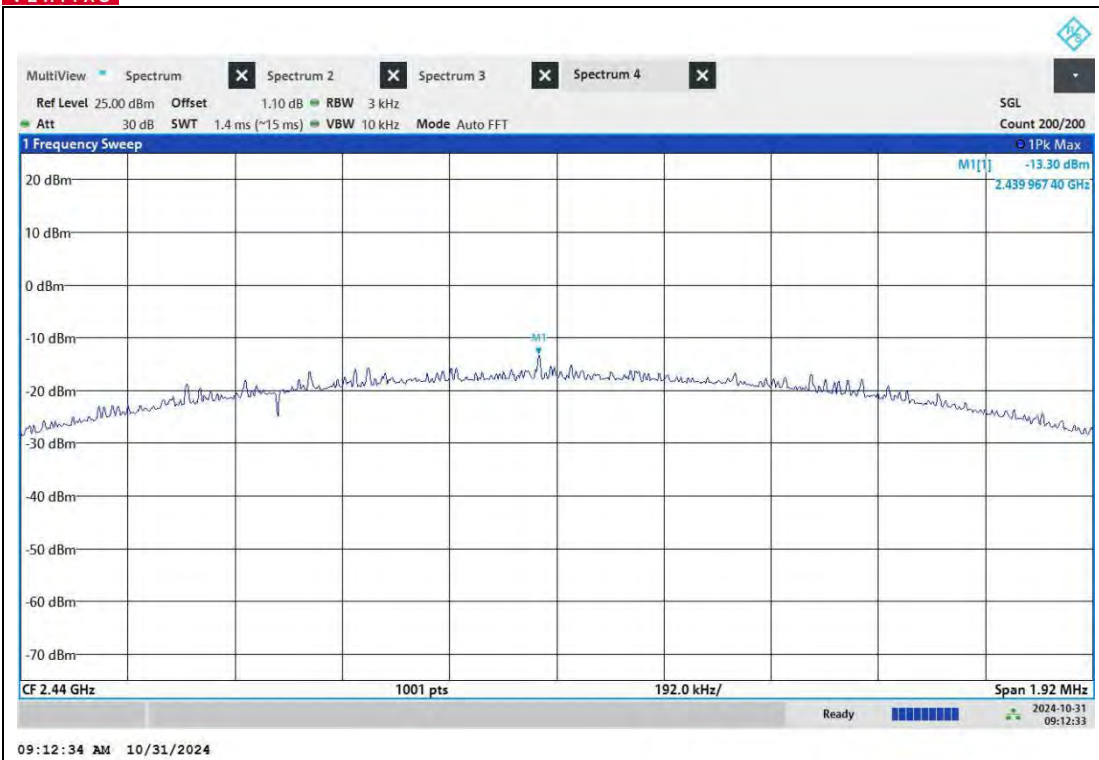
BLE_1M_ANT6_2440



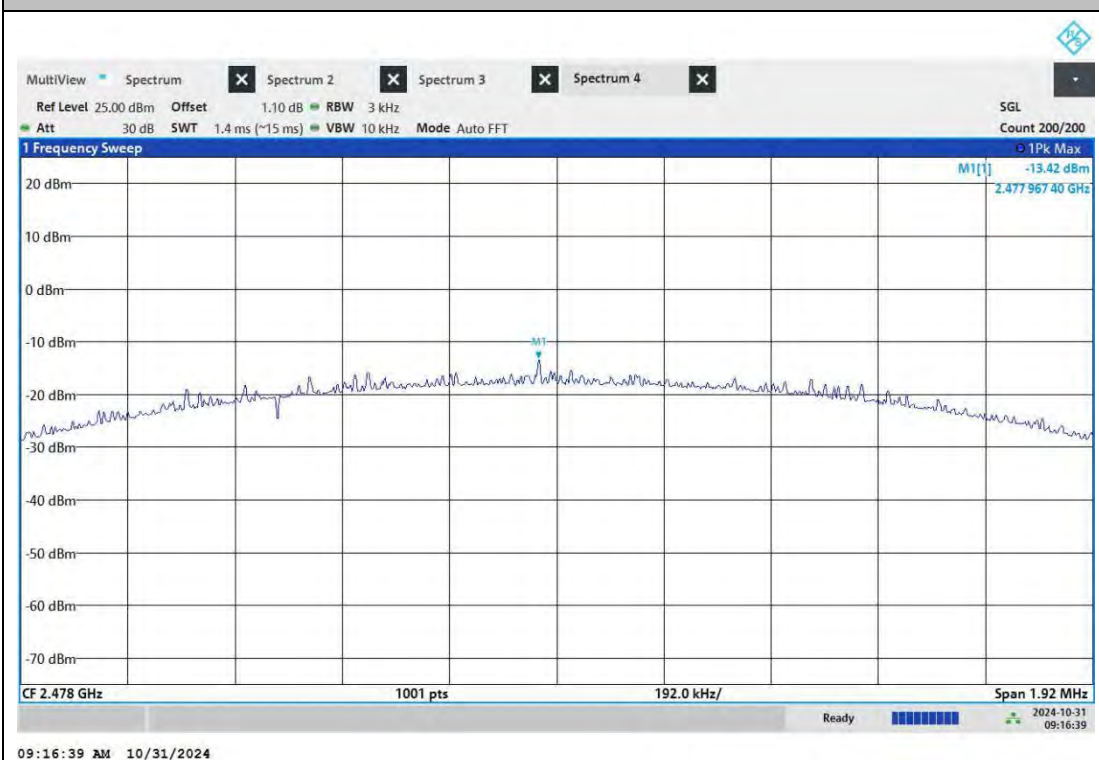
BLE_1M_ANT6_2480



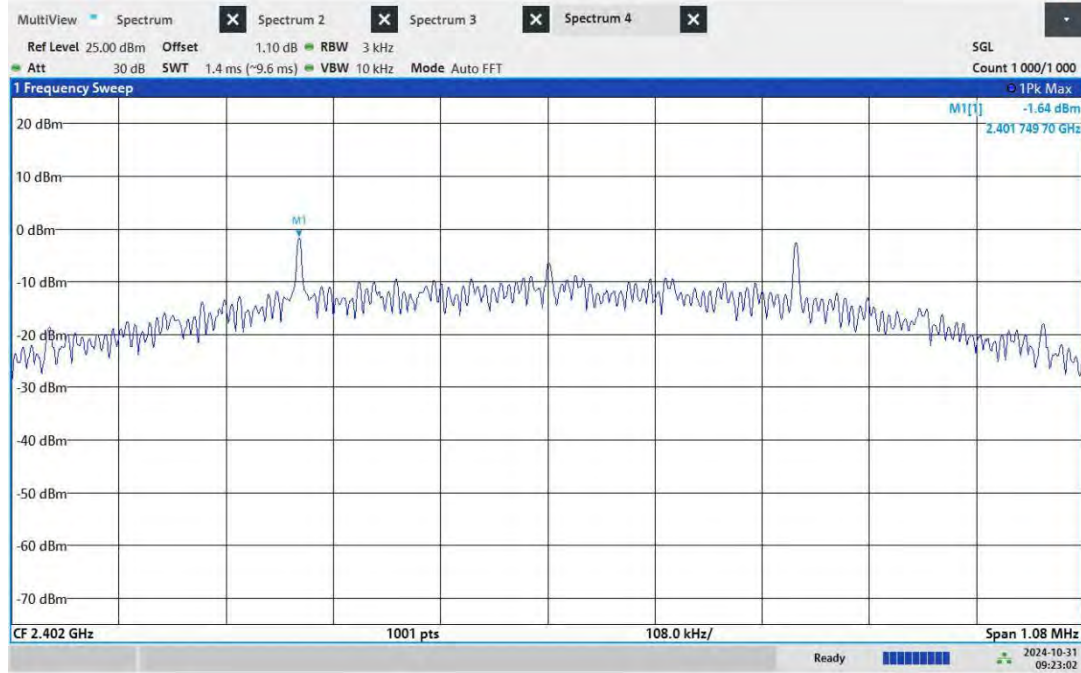
BLE_2M_ANT6_2404



BLE_2M_ANT6_2440

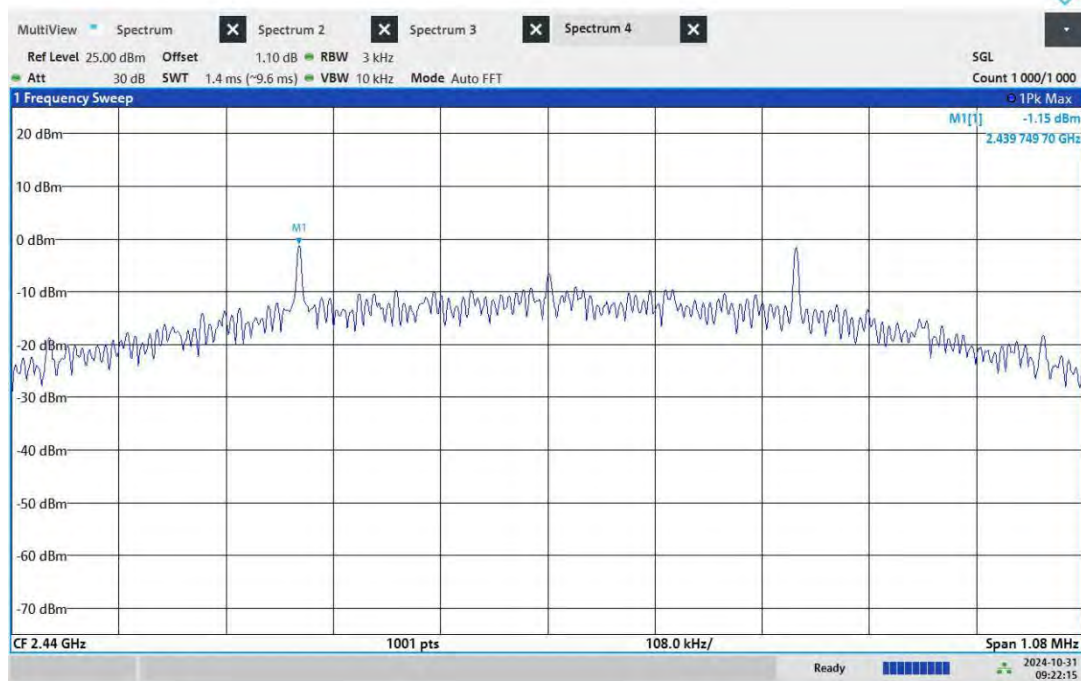


BLE_2M_ANT6_2478



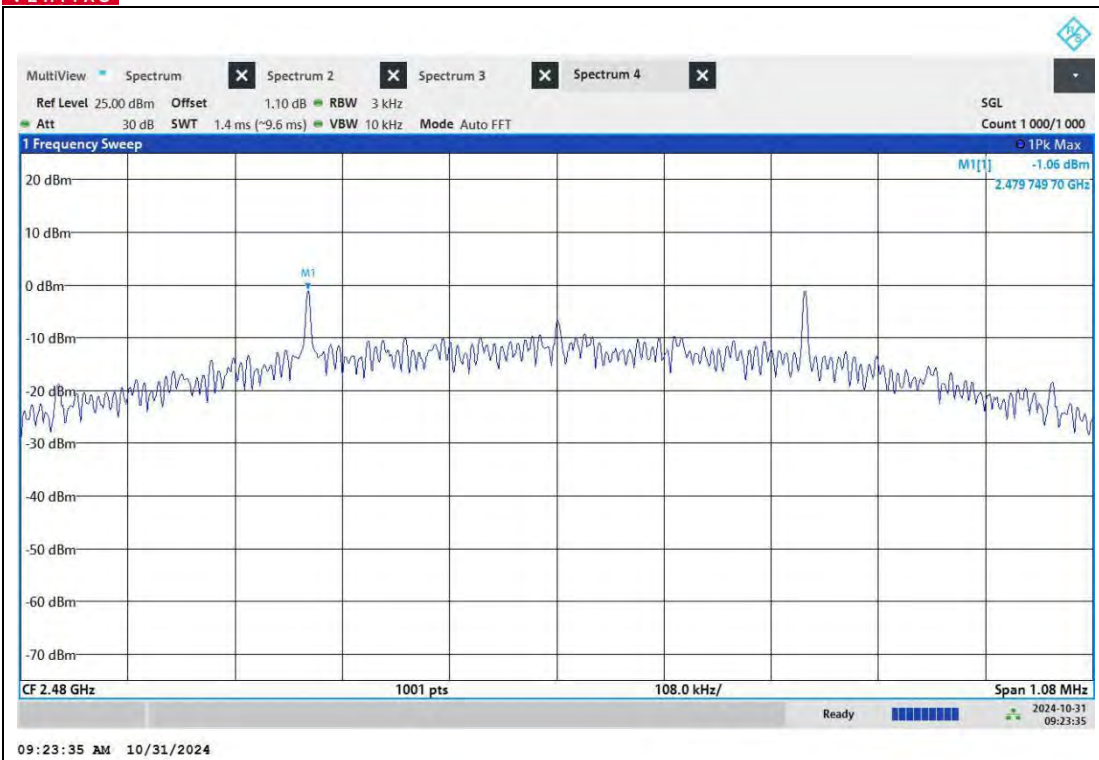
09:23:03 AM 10/31/2024

BLE_S2_ANT6_2402

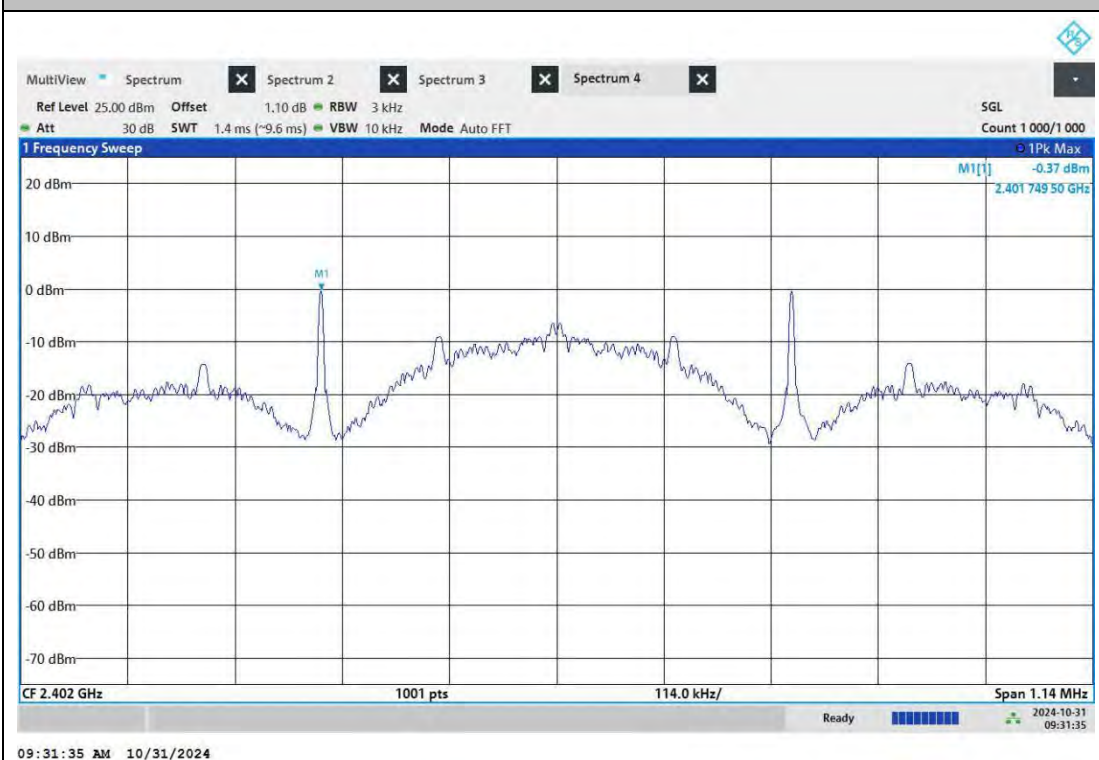


09:22:15 AM 10/31/2024

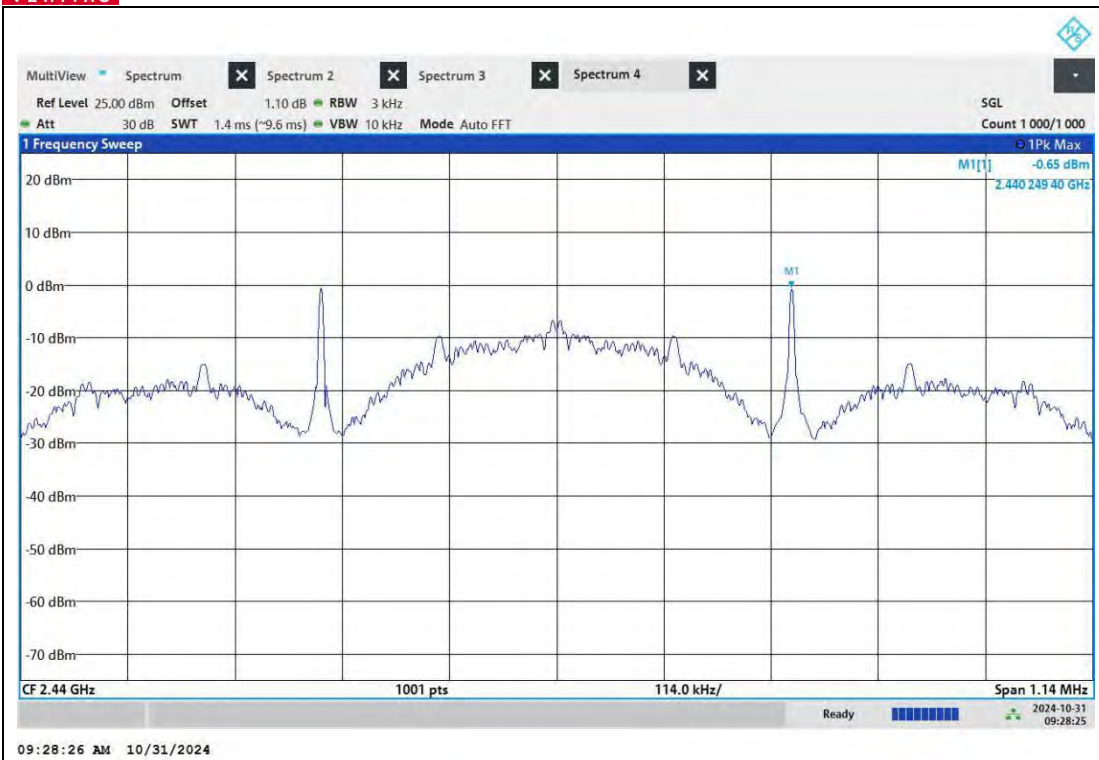
BLE_S2_ANT6_2440



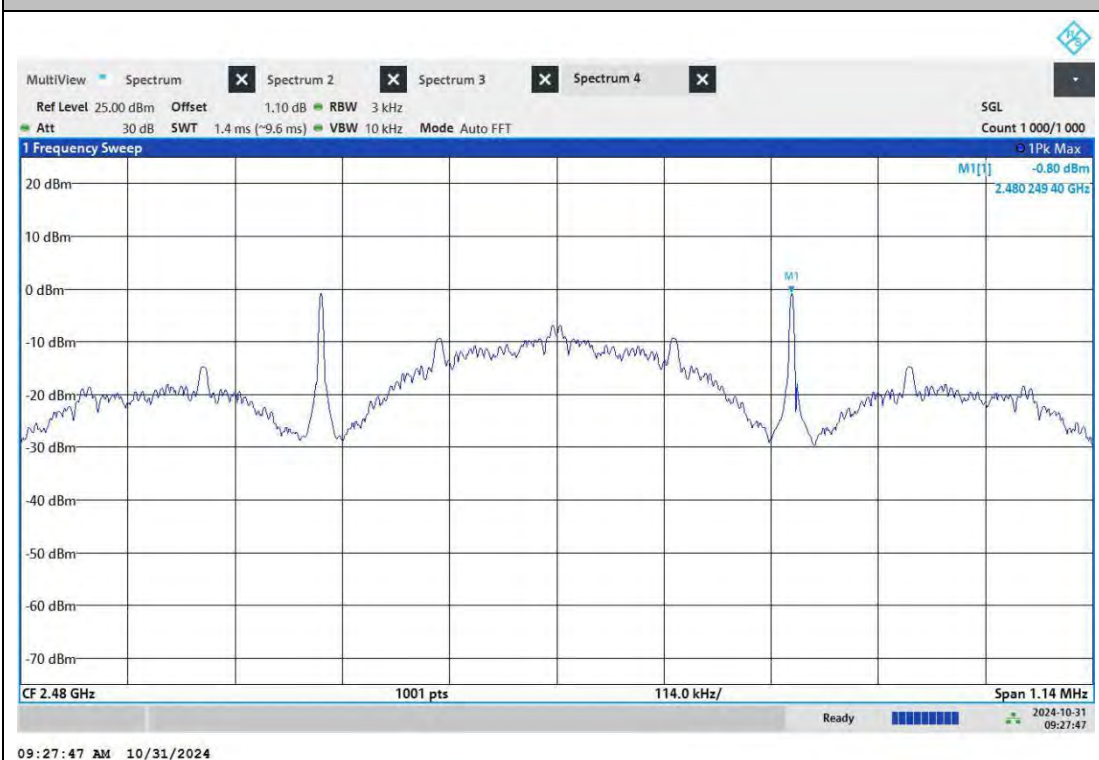
BLE_S2_ANT6_2480



BLE_S8_ANT6_2402



BLE_S8_ANT6_2440



BLE_S8_ANT6_2480

**BAND EDGE MEASUREMENTS****TEST RESULT**

TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	ANT6	Low	2402	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	PASS
BLE_2M	ANT6	Low	2402	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	PASS
BLE_S2	ANT6	Low	2402	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	PASS
BLE_S8	ANT6	Low	2402	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	PASS



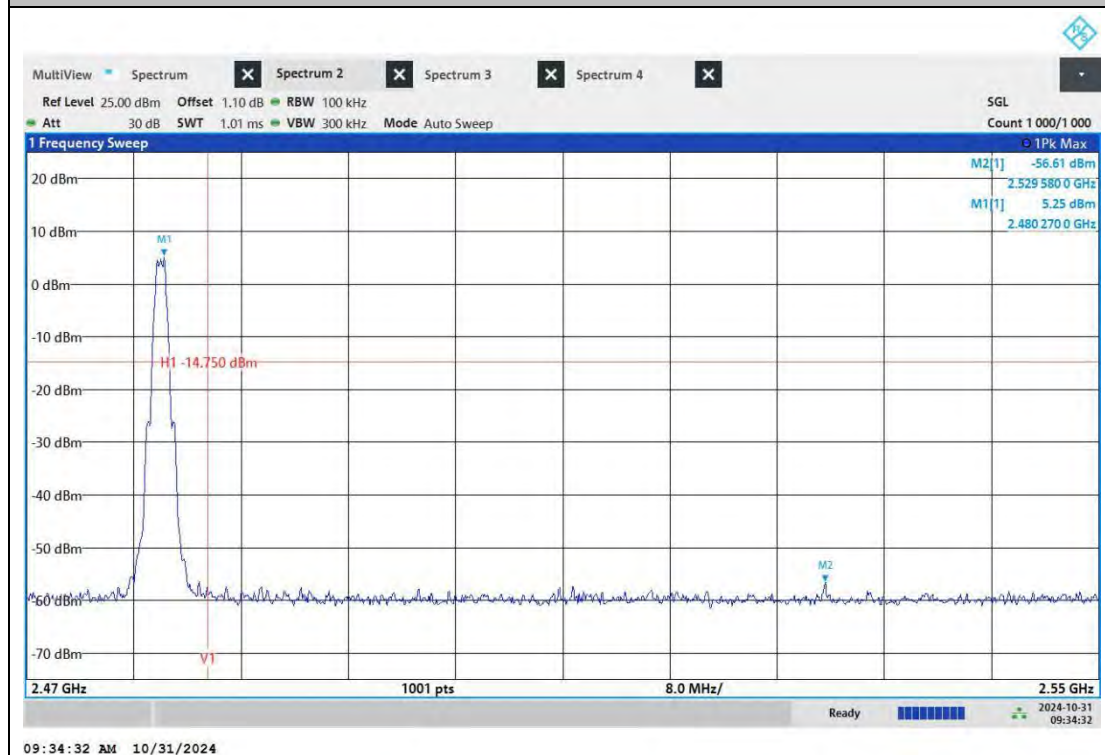
BUREAU
VERITAS

Test Report No.: PSU-QBJ2409140110RF06

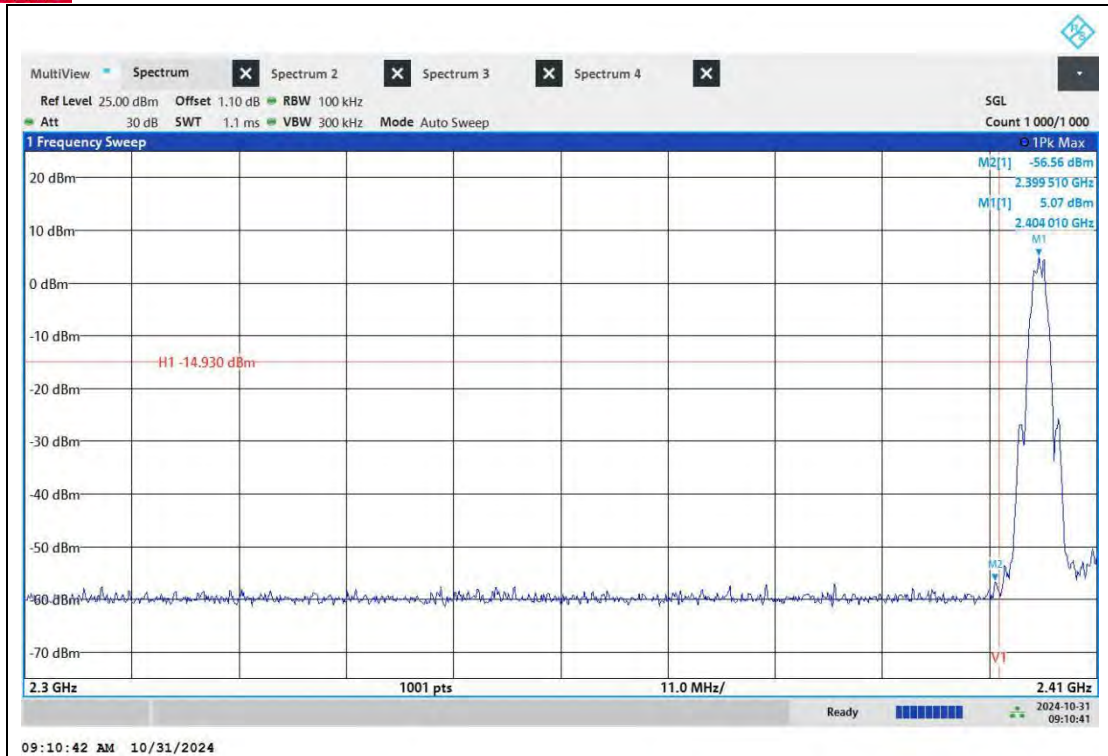
TEST GRAPHS



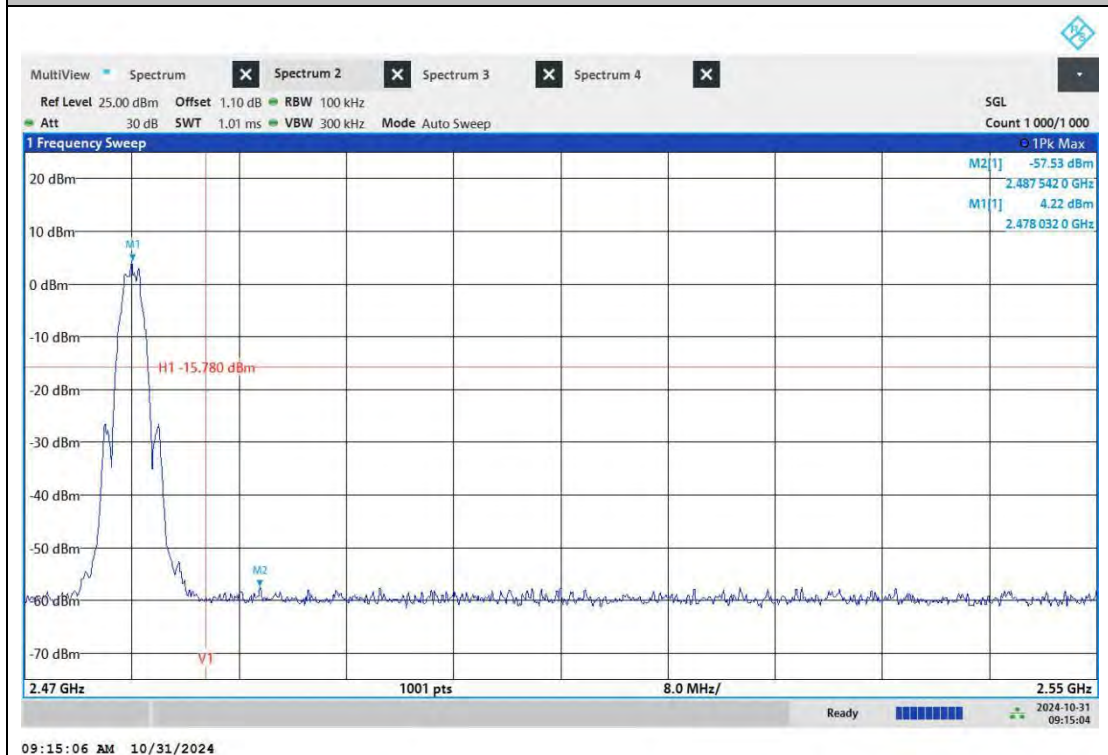
BLE_1M_ANT6_Low_2402



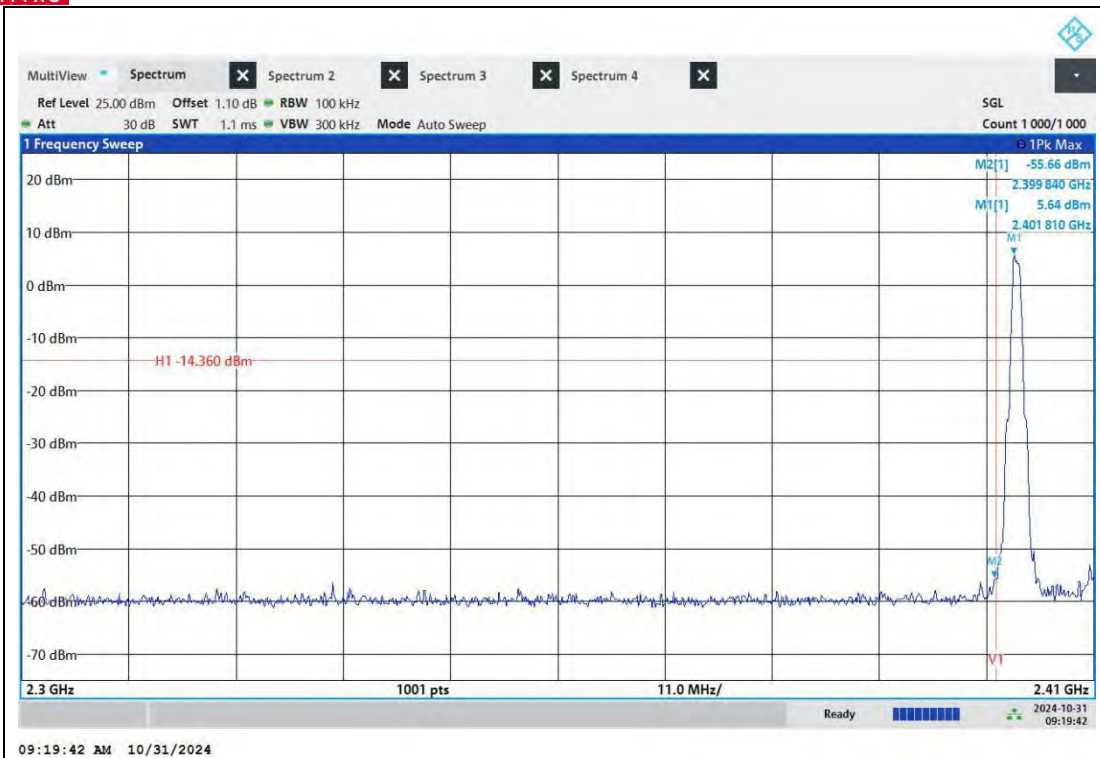
BLE_1M_ANT6_High_2480



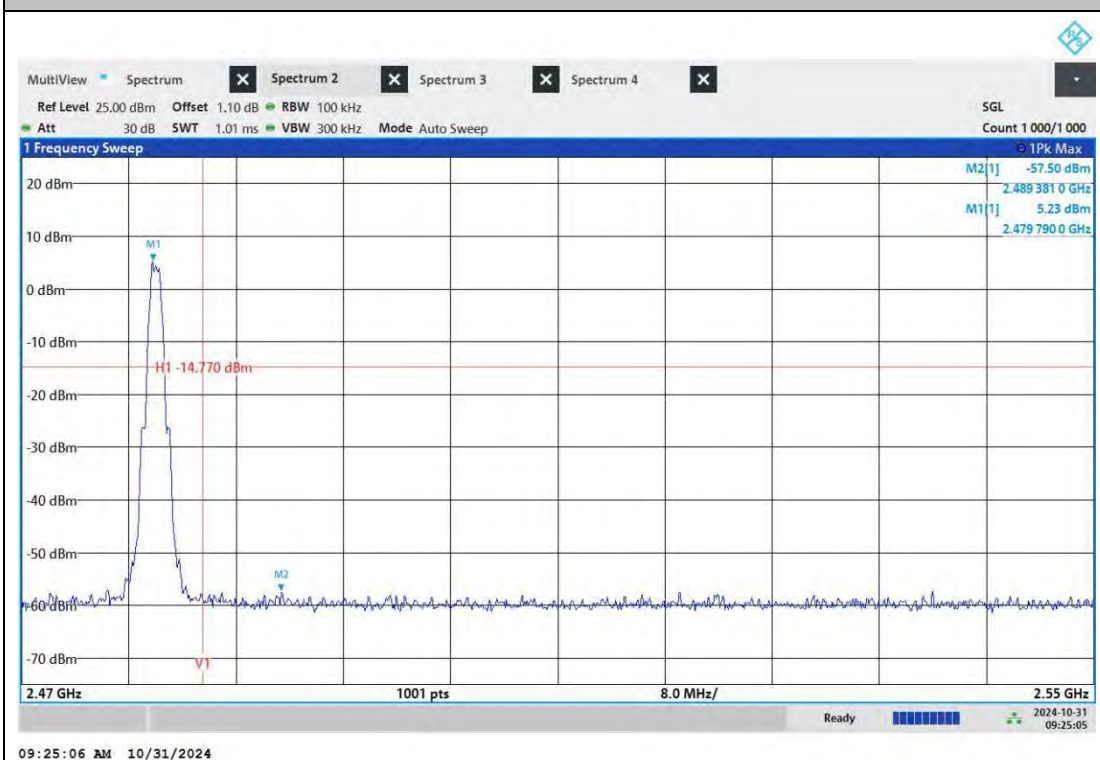
BLE_2M_ANT6_Low_2404



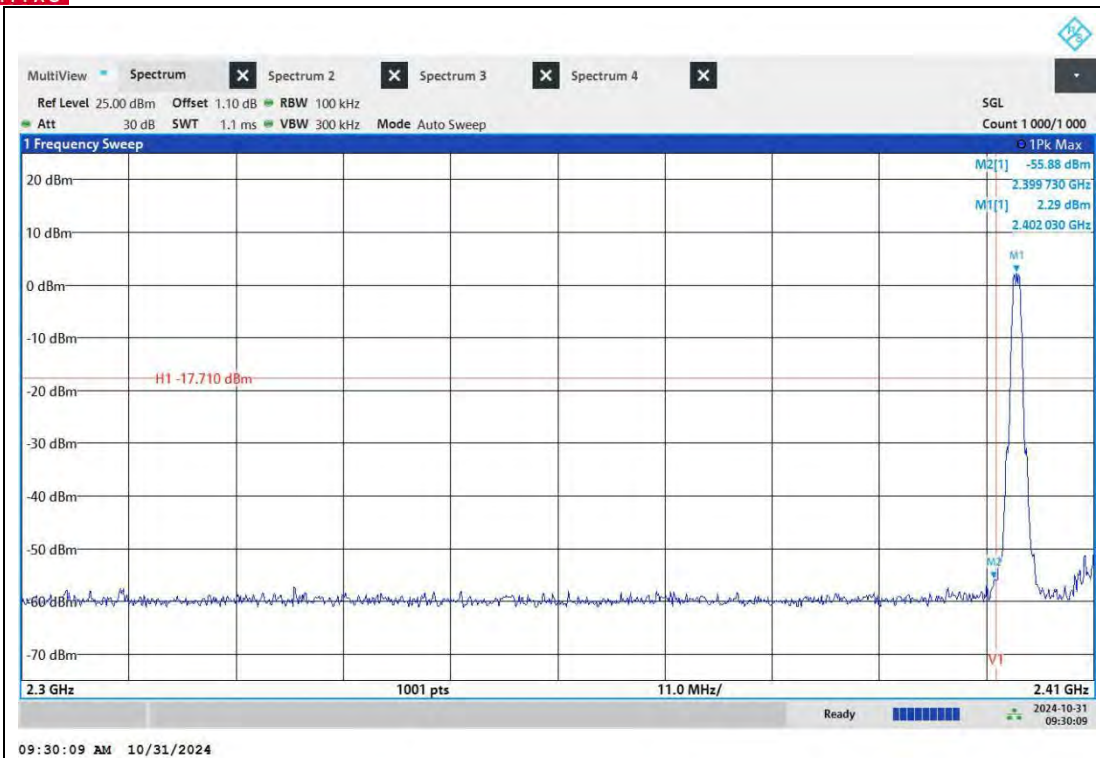
BLE_2M_ANT6_High_2478



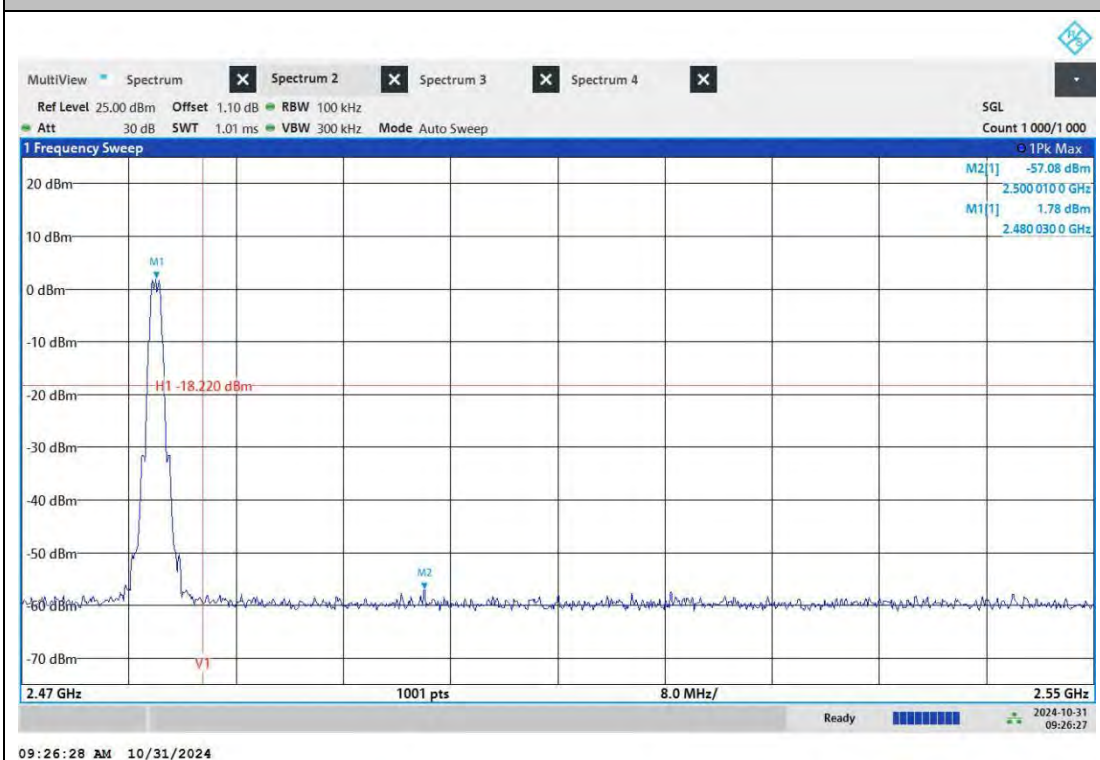
BLE_S2_ANT6_Low_2402



BLE_S2_ANT6_High_2480



BLE_S8_ANT6_Low_2402



BLE_S8_ANT6_High_2480

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

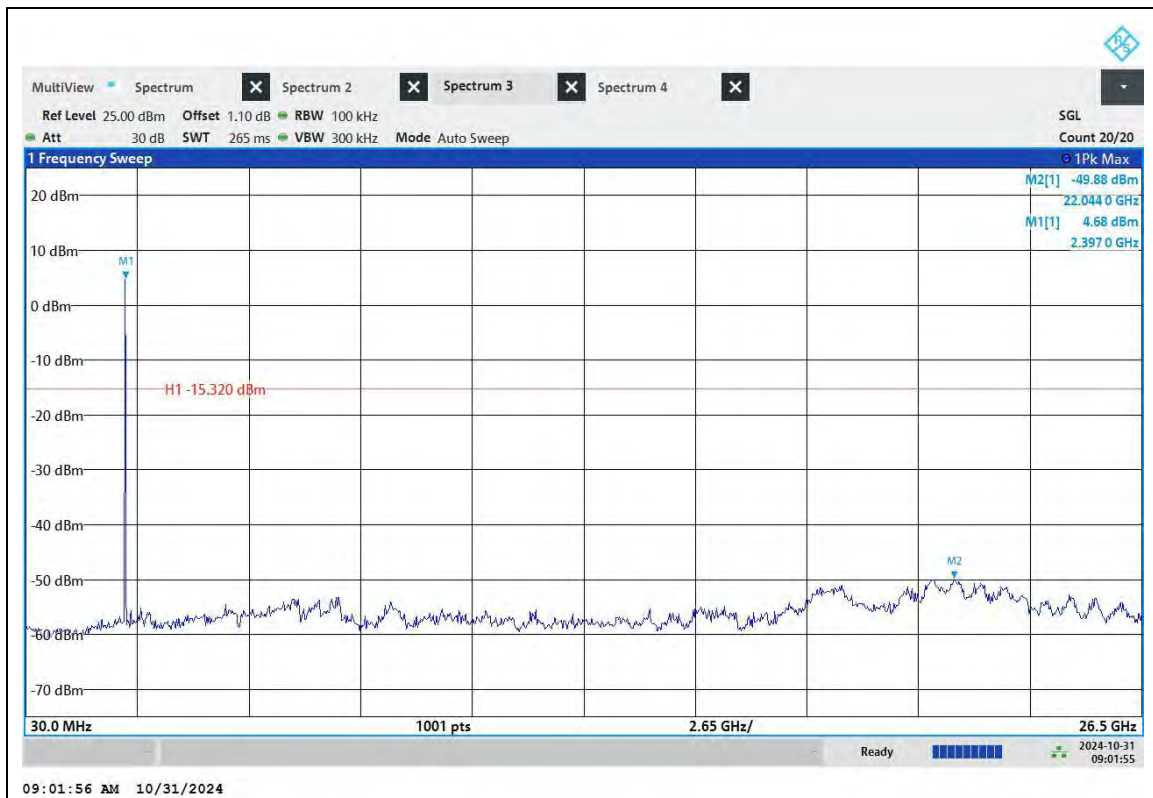
TestMode	Antenna	Channel	FreqRange [MHz]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	ANT6	2402	30~26500	See test graph	See test graph	PASS
		2440	30~26500	See test graph	See test graph	PASS
		2480	30~26500	See test graph	See test graph	PASS
BLE_2M	ANT6	2402	30~26500	See test graph	See test graph	PASS
		2440	30~26500	See test graph	See test graph	PASS
		2480	30~26500	See test graph	See test graph	PASS
BLE_S2	ANT6	2402	30~26500	See test graph	See test graph	PASS
		2440	30~26500	See test graph	See test graph	PASS
		2480	30~26500	See test graph	See test graph	PASS
BLE_S8	ANT6	2402	30~26500	See test graph	See test graph	PASS
		2440	30~26500	See test graph	See test graph	PASS
		2480	30~26500	See test graph	See test graph	PASS



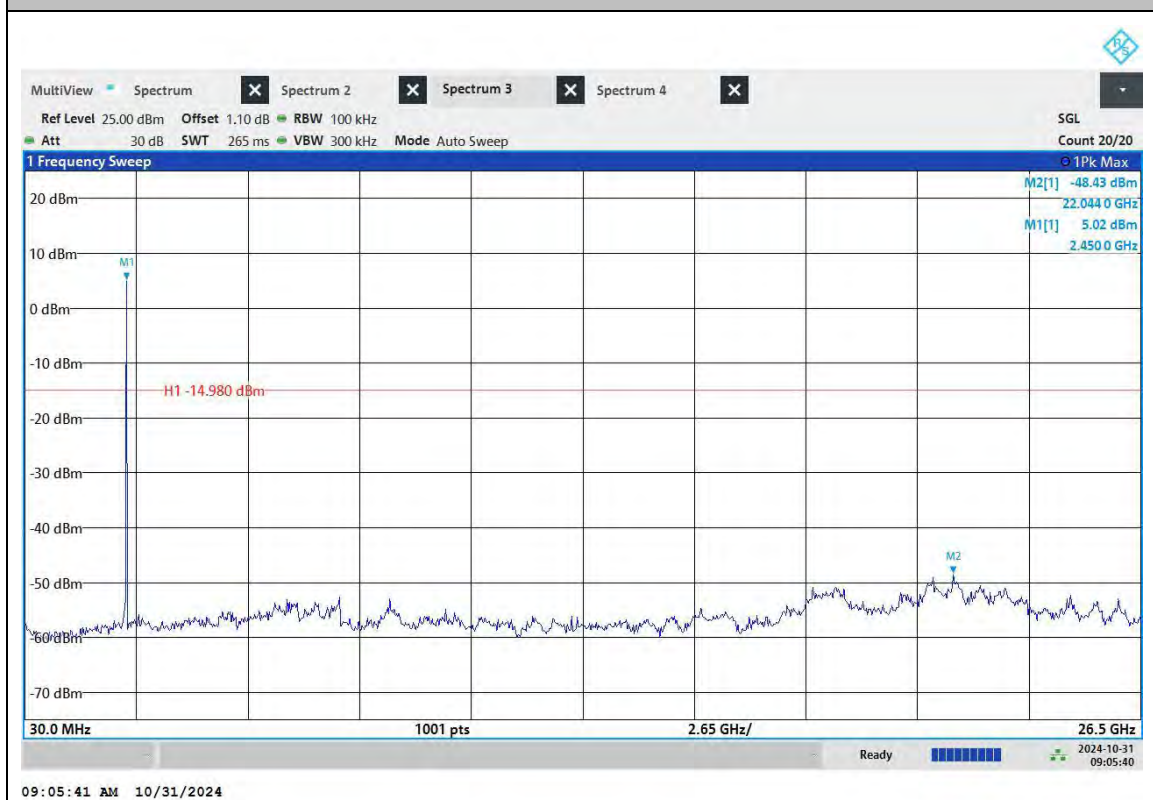
BUREAU
VERITAS

Test Report No.: PSU-QBJ2409140110RF06

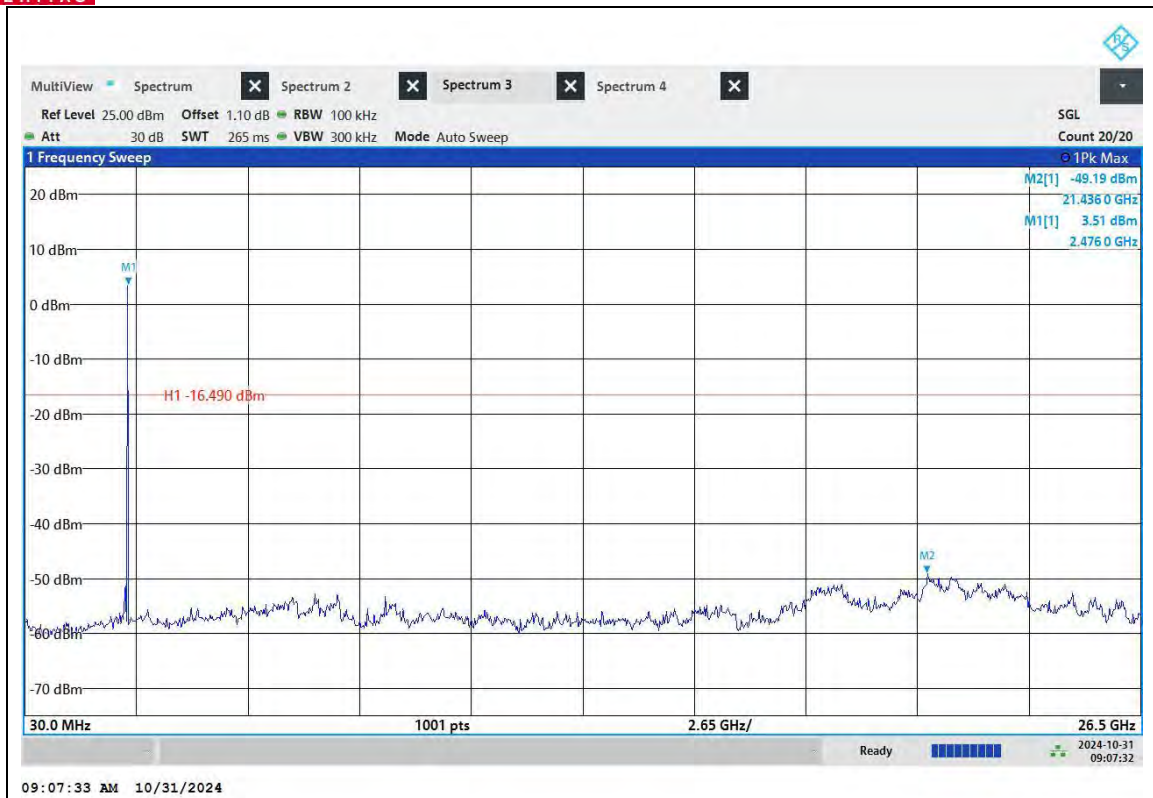
TEST GRAPHS



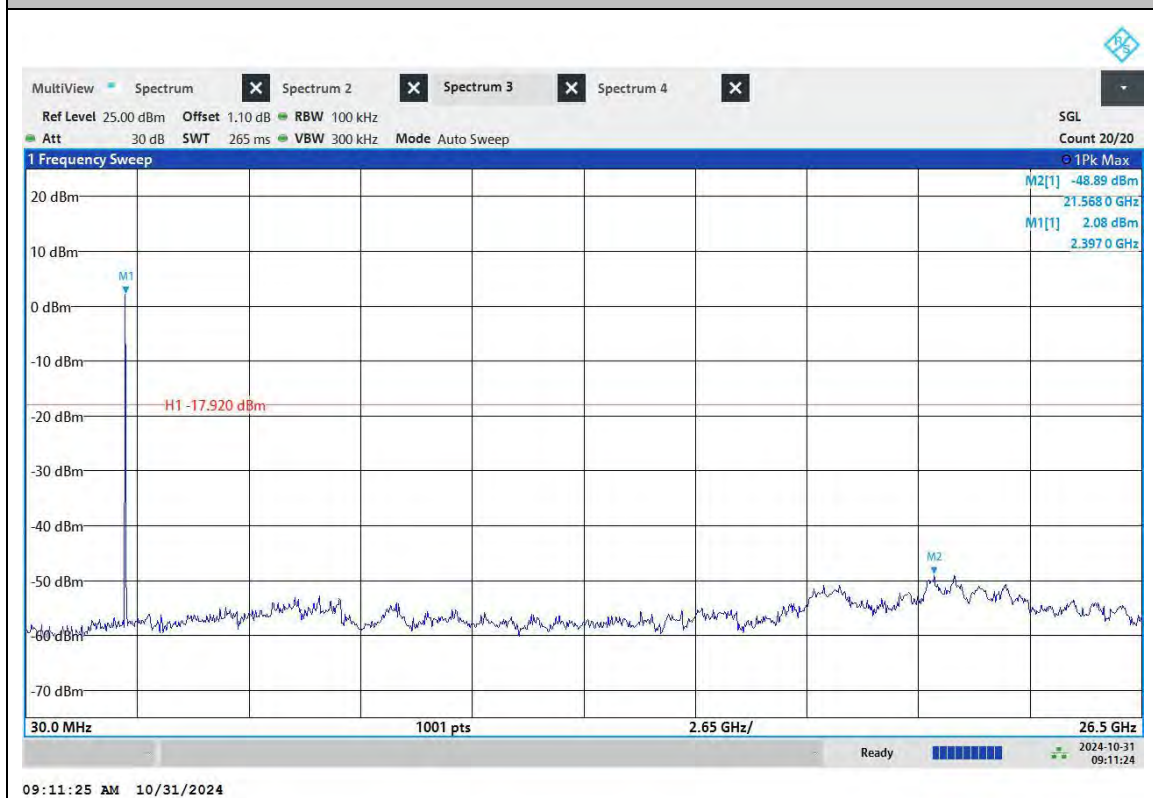
BLE_1M_ANT6_2402_30~26500



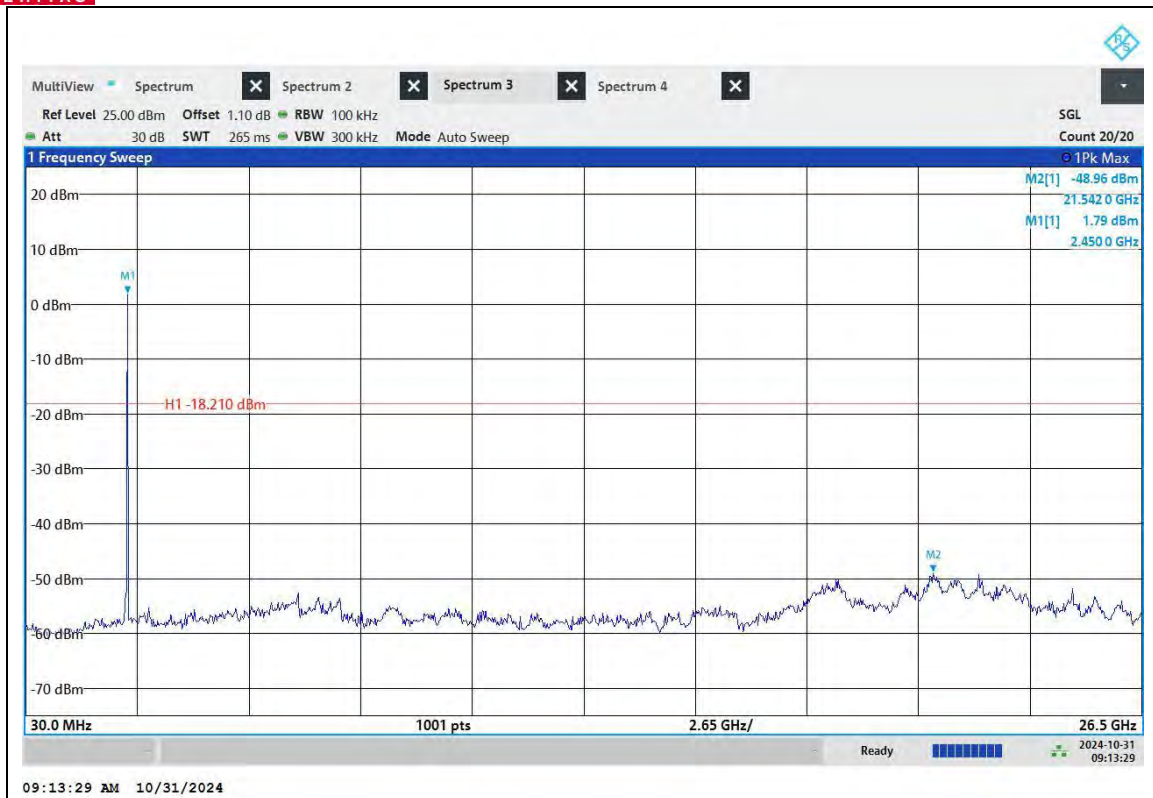
BLE_1M_ANT6_2440_30~26500



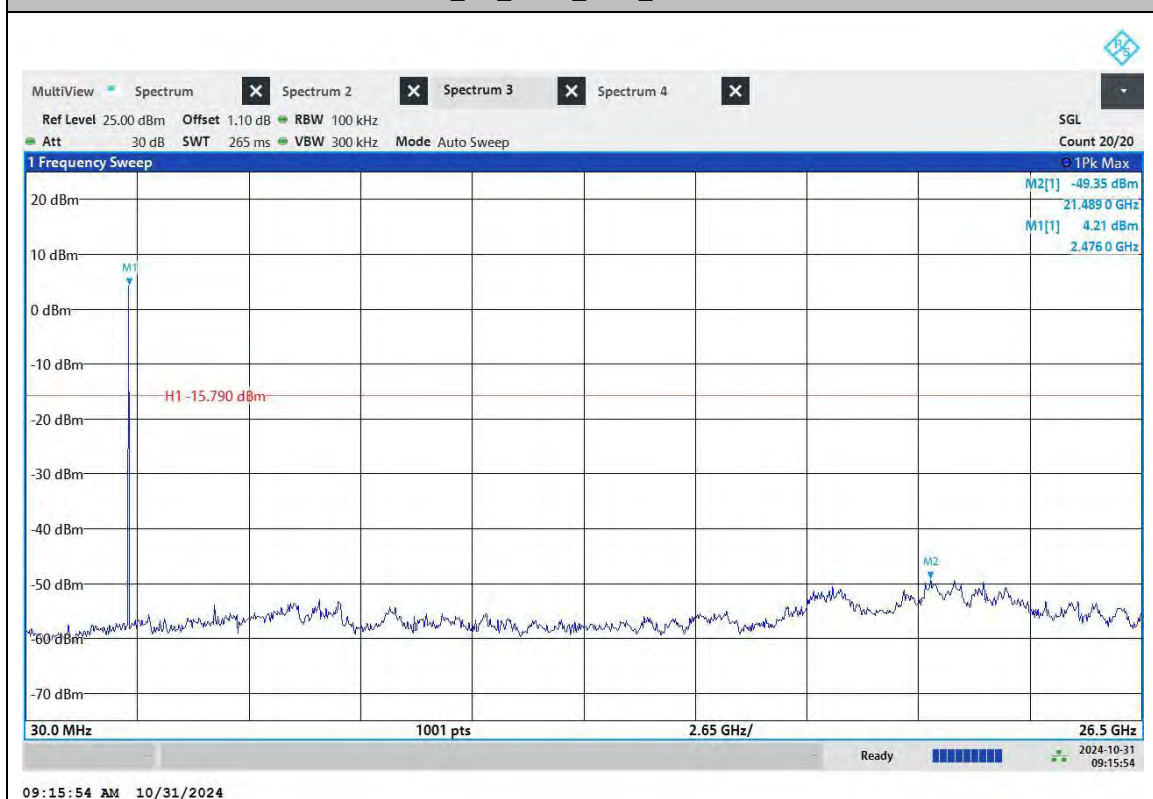
BLE_1M_ANT6_2480_30~26500



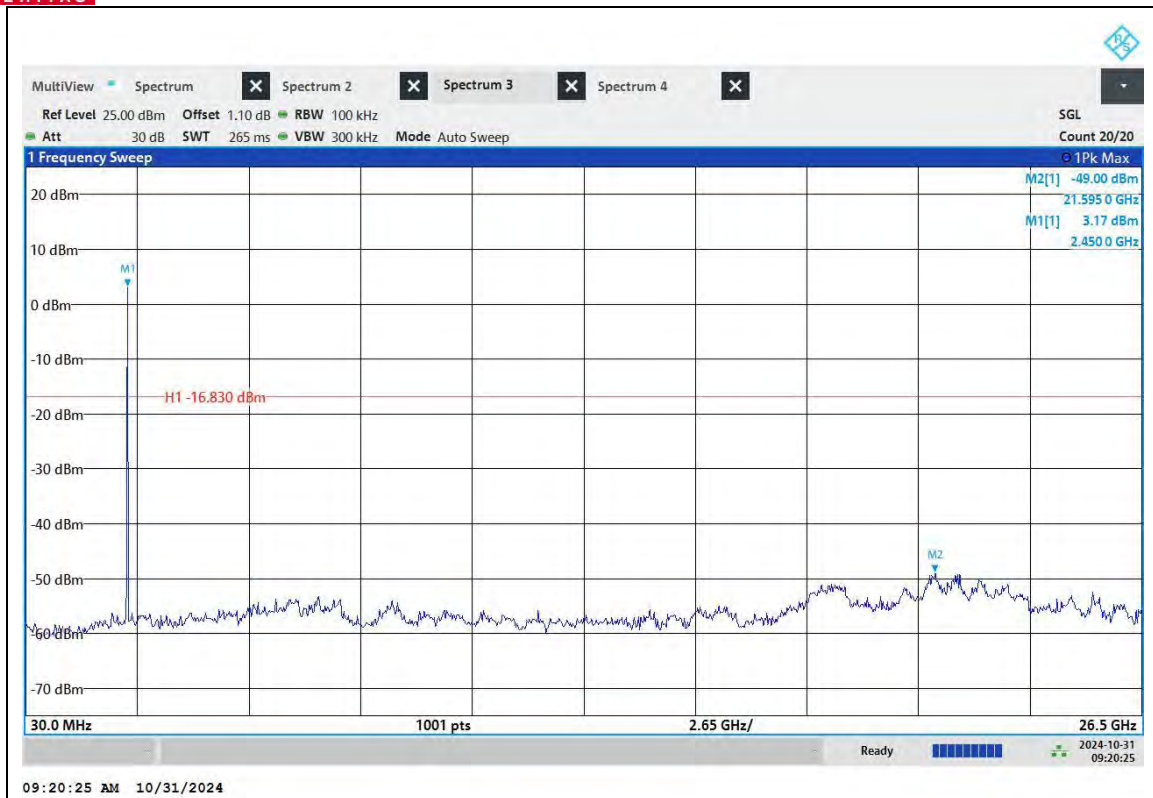
BLE_2M_ANT6_2404_30~26500



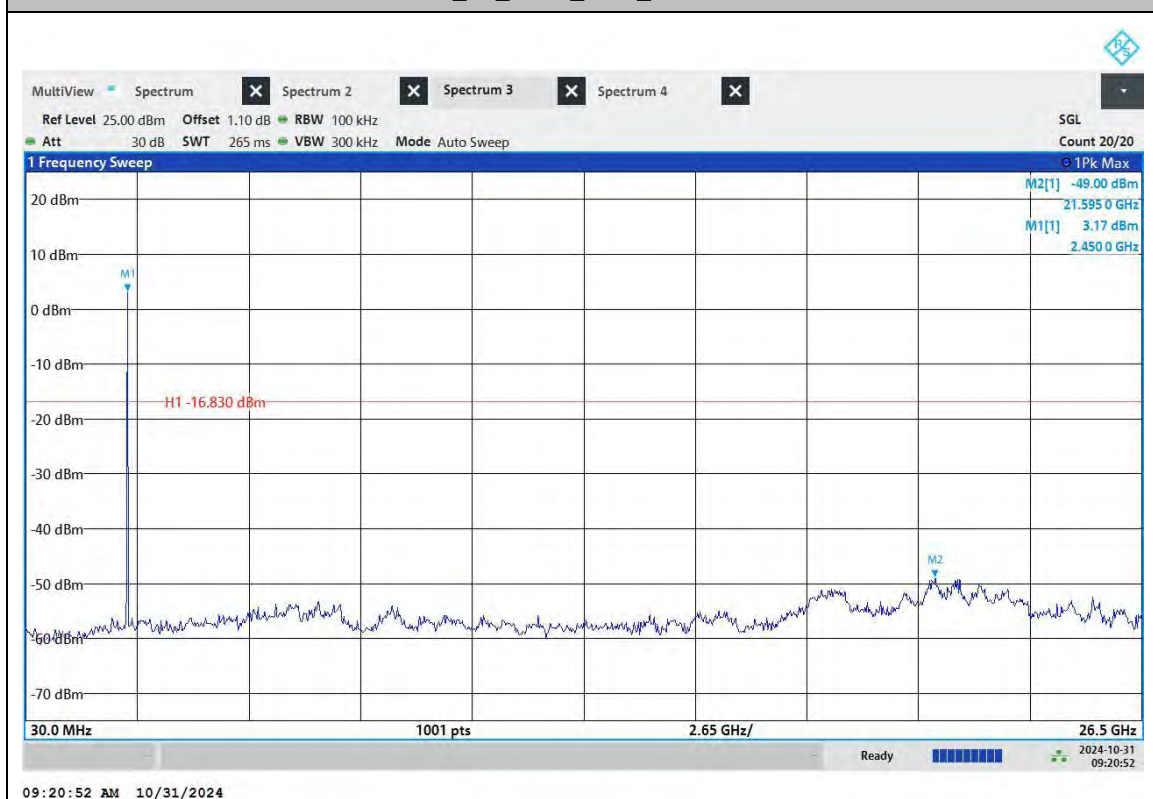
BLE_2M_ANT6_2440_30~26500



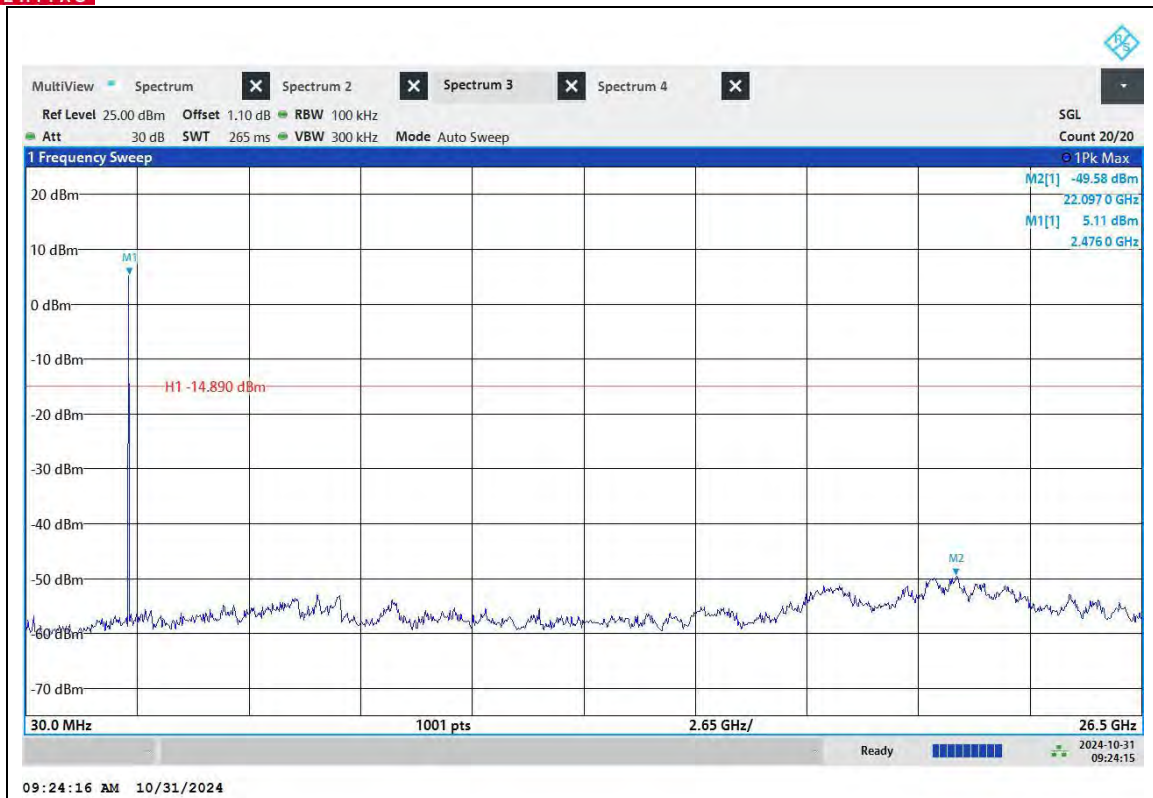
BLE_2M_ANT6_2478_30~26500



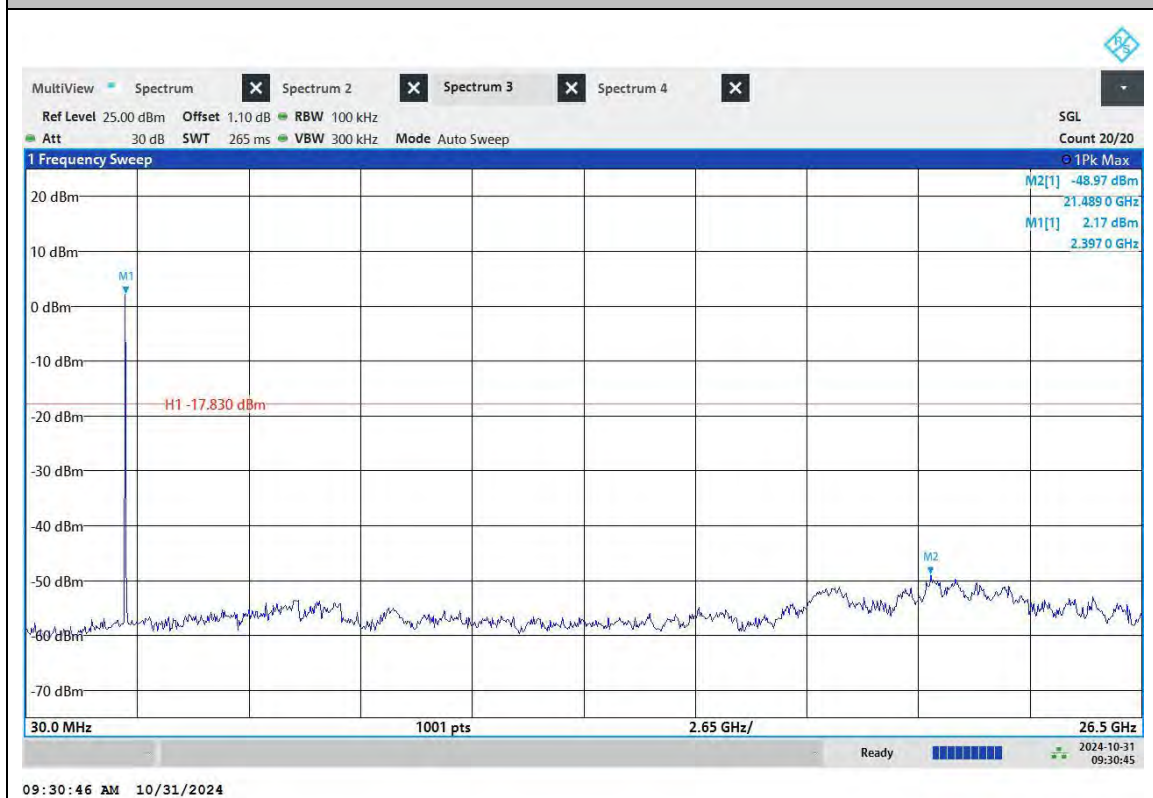
BLE_S2_ANT6_2402_30~26500



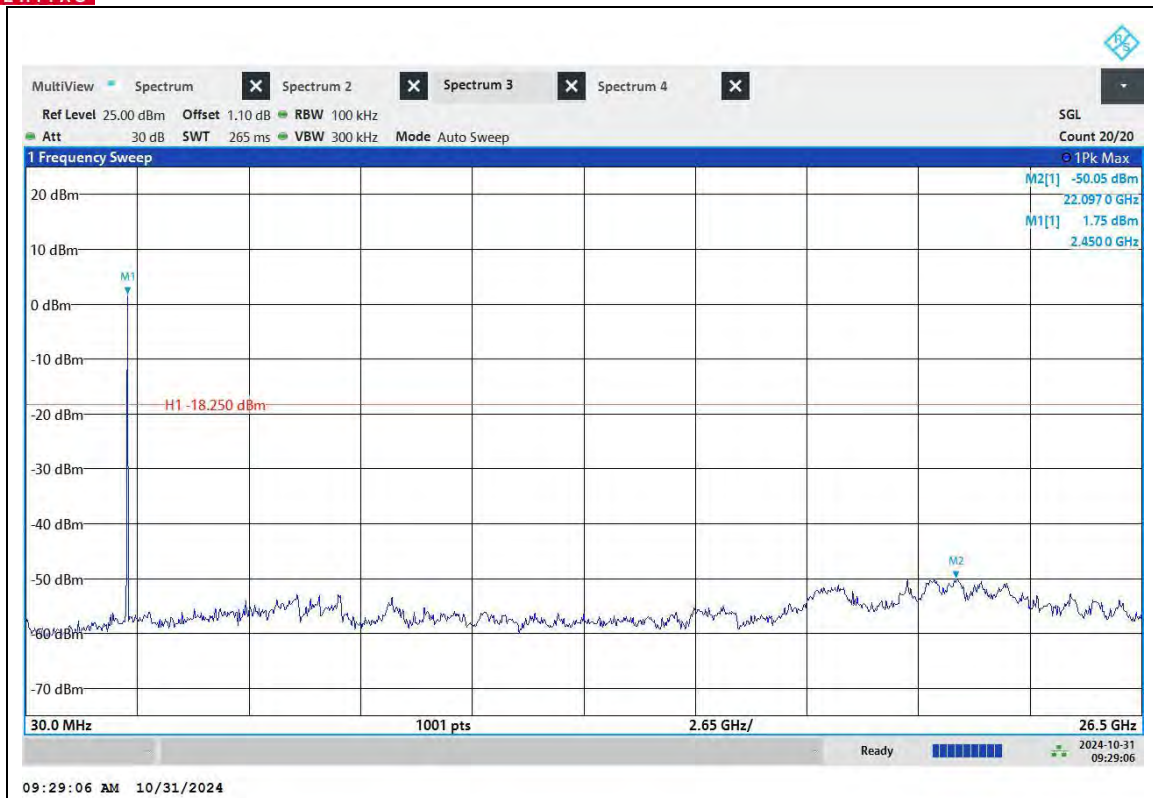
BLE_S2_ANT6_2440_30~26500



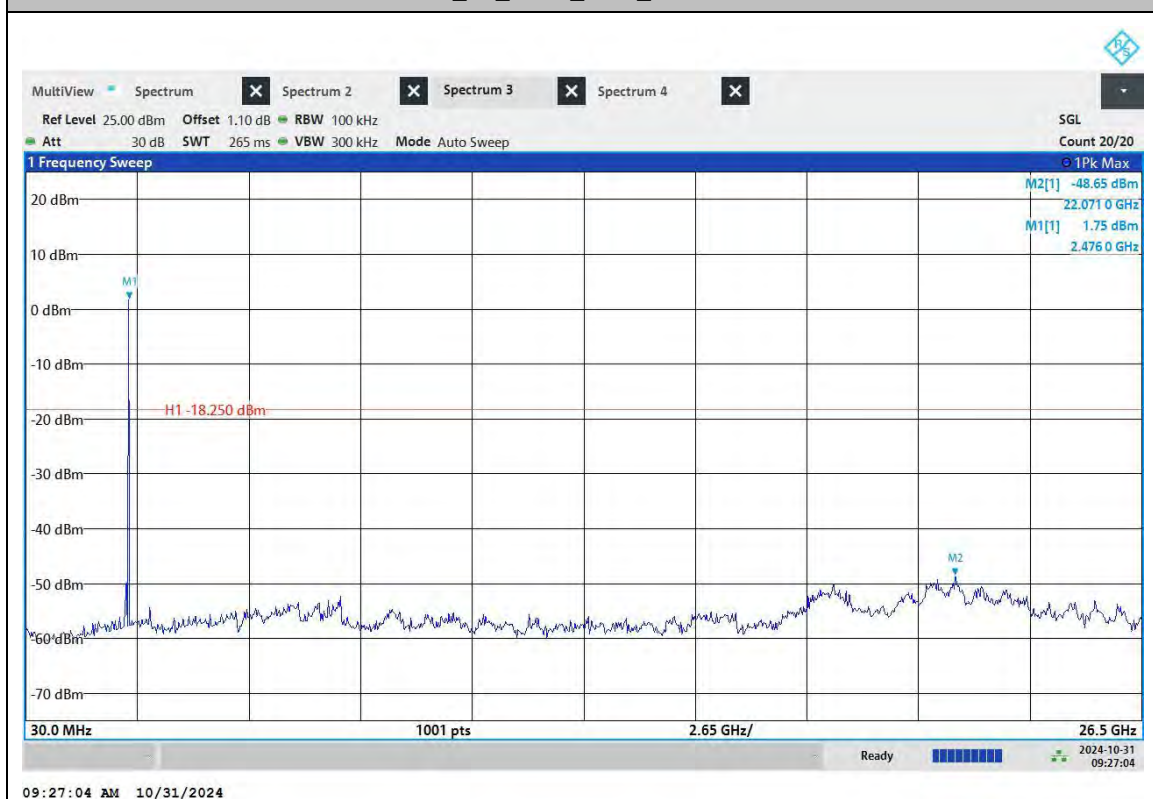
BLE_S2_ANT6_2480_30~26500



BLE_S8_ANT6_2402_30~26500



BLE_S8_ANT6_2440_30~26500

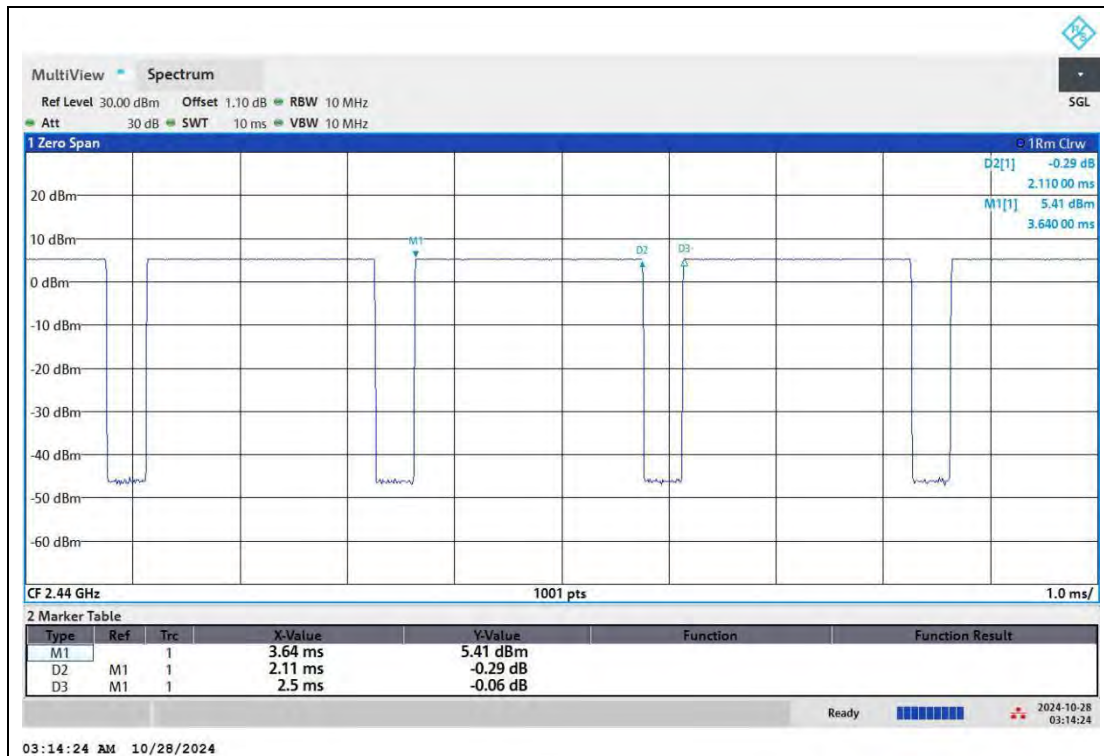


BLE_S8_ANT6_2480_30~26500

**DUTY CYCLE****TEST RESULT**

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
BLE_1M	ANT6	2402	2.11	2.50	84.40	0.74	---	PASS
BLE_2M	ANT6	2404	1.054	1.872	56.30	2.49	---	PASS
BLE-S2	ANT6	2402	4.514	5.004	90.21	0.45	---	PASS
BLE_S8	ANT6	2402	16.914	17.504	96.63	0.15	---	PASS

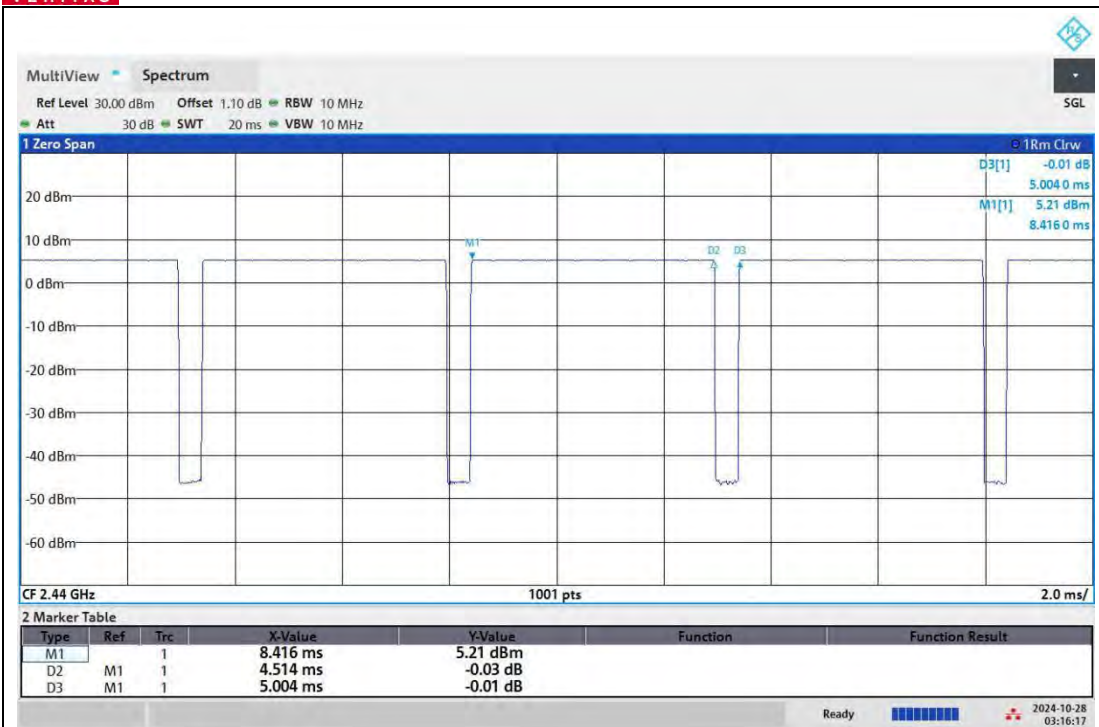
TEST GRAPHS



BLE_1M_ANT6_2402

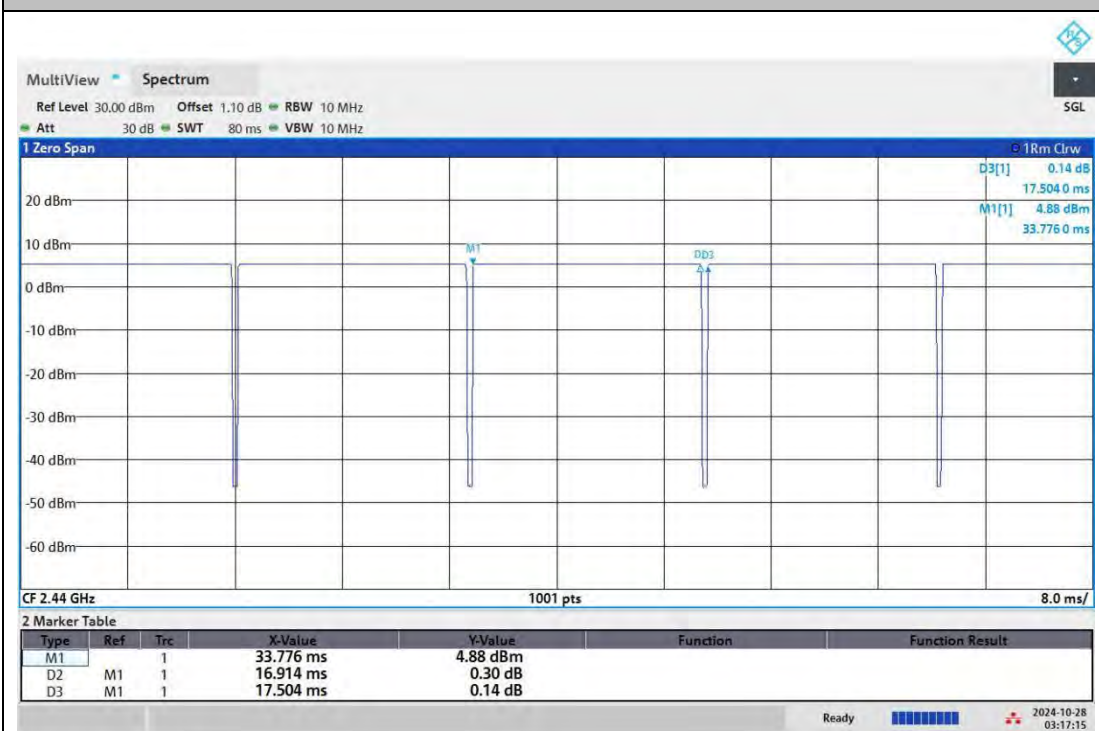


BLE_2M_ANT6_2404



03:16:18 AM 10/28/2024

BLE_S2_ANT6_2402



03:17:16 AM 10/28/2024

BLE_S8_ANT6_2402

--END--