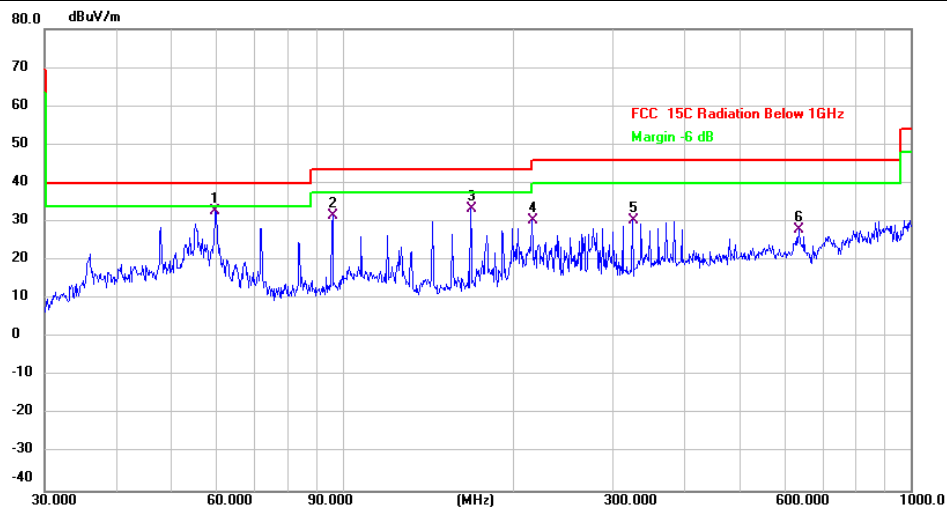


6.7.3 Test Data:

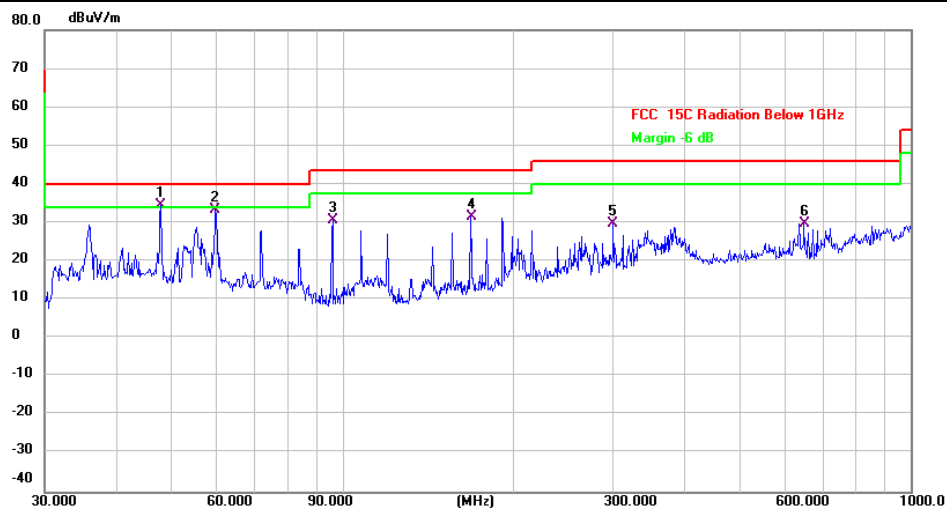
M200

Mode1 / Polarization: Horizontal / CH: H



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1 *	59.8588	42.54	-9.79	32.75	40.00	-7.25	QP	
2	96.0986	42.13	-10.55	31.58	43.50	-11.92	QP	
3	167.8243	44.47	-11.01	33.46	43.50	-10.04	QP	
4	216.0240	39.47	-8.98	30.49	46.00	-15.51	QP	
5	324.4561	36.68	-6.43	30.25	46.00	-15.75	QP	
6	636.1340	28.14	-0.14	28.00	46.00	-18.00	QP	

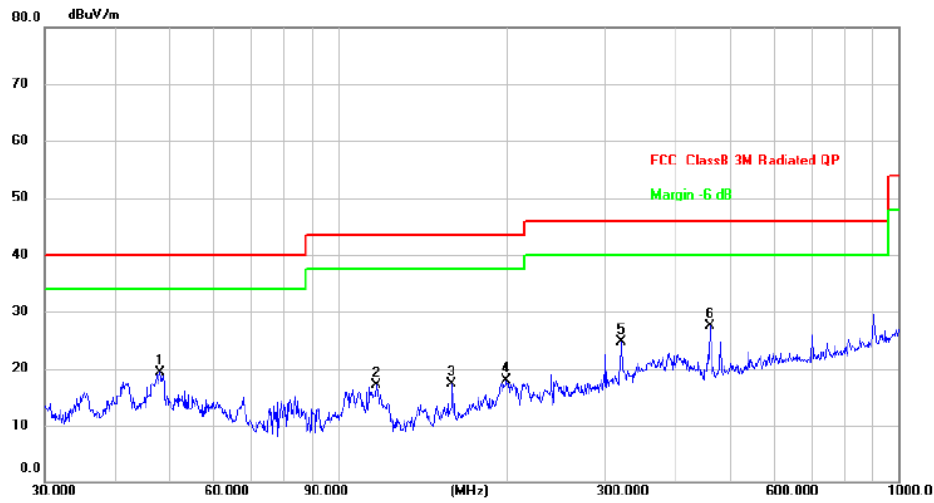
Mode1 / Polarization: Vertical / CH: H



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1 *	47.9940	41.93	-7.51	34.42	40.00	-5.58	QP	
2	59.8588	43.24	-9.79	33.45	40.00	-6.55	QP	
3	96.0986	41.10	-10.55	30.55	43.50	-12.95	QP	
4	167.8243	42.70	-11.01	31.69	43.50	-11.81	QP	
5	300.3672	34.45	-4.75	29.70	46.00	-16.30	QP	
6	649.6597	31.68	-1.88	29.80	46.00	-16.20	QP	

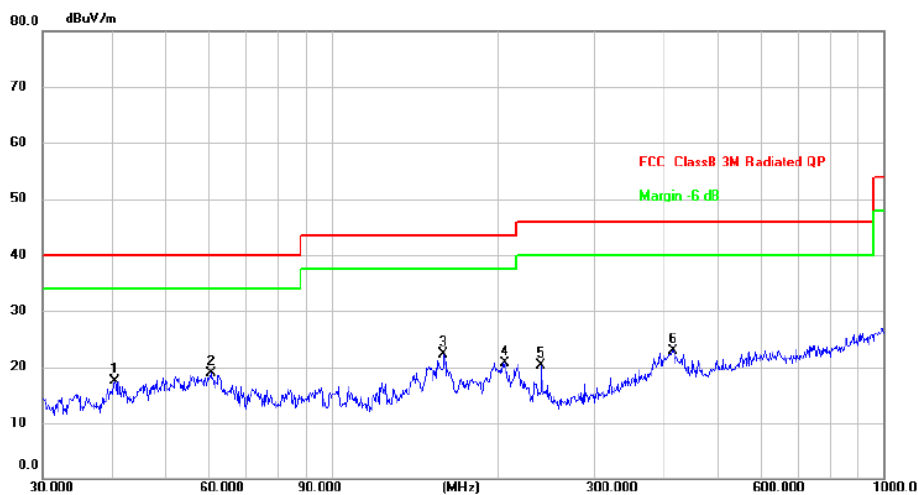
M220

Mode1 / Polarization: Horizontal CH: H



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		48.1625	31.74	-12.44	19.30	40.00	-20.70	peak	
2		116.9492	31.42	-14.22	17.20	43.50	-26.30	peak	
3		159.7844	32.42	-15.12	17.30	43.50	-26.20	peak	
4		199.9855	29.84	-11.95	17.89	43.50	-25.61	peak	
5		319.9368	34.49	-9.72	24.77	46.00	-21.23	peak	
6	*	460.7271	35.17	-7.58	27.59	46.00	-18.41	peak	

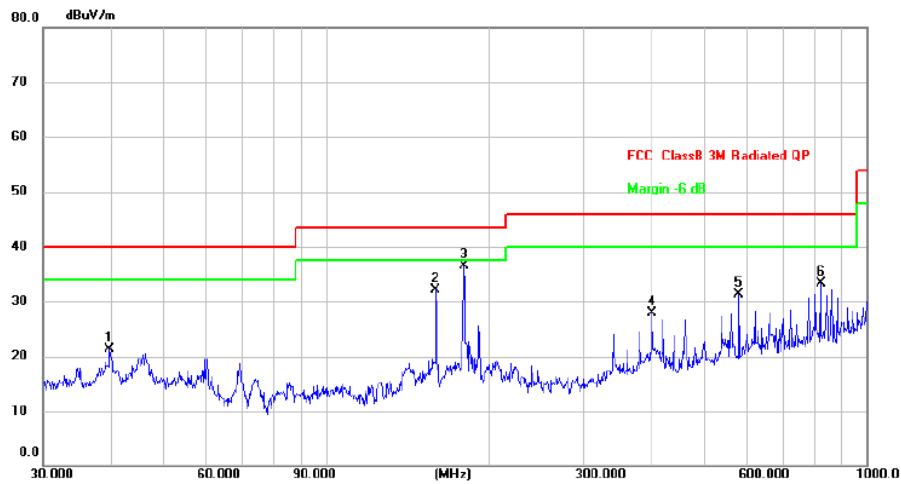
Mode1 / Polarization: Vertical CH: H



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		40.5591	30.89	-13.36	17.53	40.00	-22.47	peak	
2	*	60.4917	32.61	-13.78	18.83	40.00	-21.17	peak	
3		159.7844	37.37	-15.12	22.25	43.50	-21.25	peak	
4		206.3975	33.16	-12.39	20.77	43.50	-22.73	peak	
5		239.9873	32.02	-11.76	20.26	46.00	-25.74	peak	
6		416.1791	31.49	-8.59	22.90	46.00	-23.10	peak	

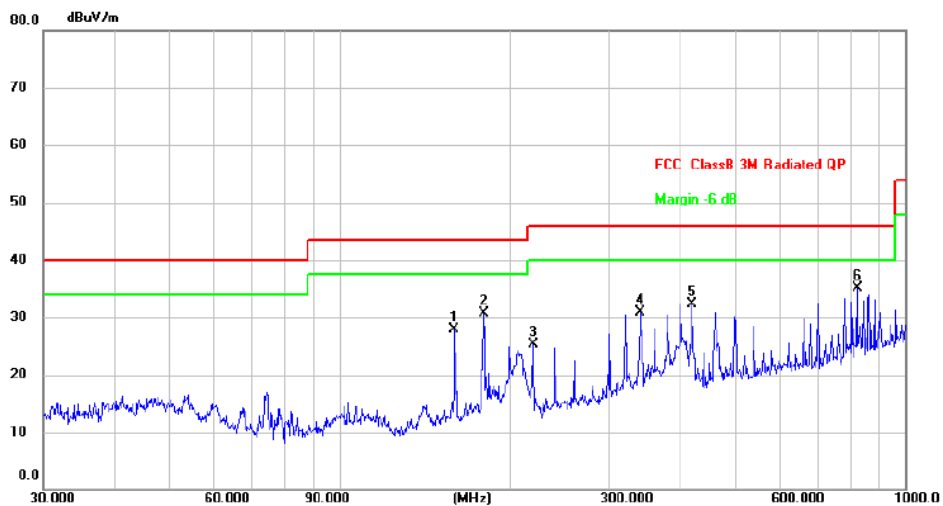
M221

Mode1 / Polarization: Horizontal CH: H



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	39.8541	34.88	-13.62	21.26	40.00	-18.74	peak	
2	159.7844	47.27	-15.12	32.15	43.50	-11.35	peak	
3 *	180.0164	51.40	-14.86	36.54	43.50	-6.96	peak	
4	400.4318	36.93	-9.00	27.93	46.00	-18.07	peak	
5	580.7024	36.11	-4.83	31.28	46.00	-14.72	peak	
6	821.7103	35.16	-1.78	33.38	46.00	-12.62	peak	

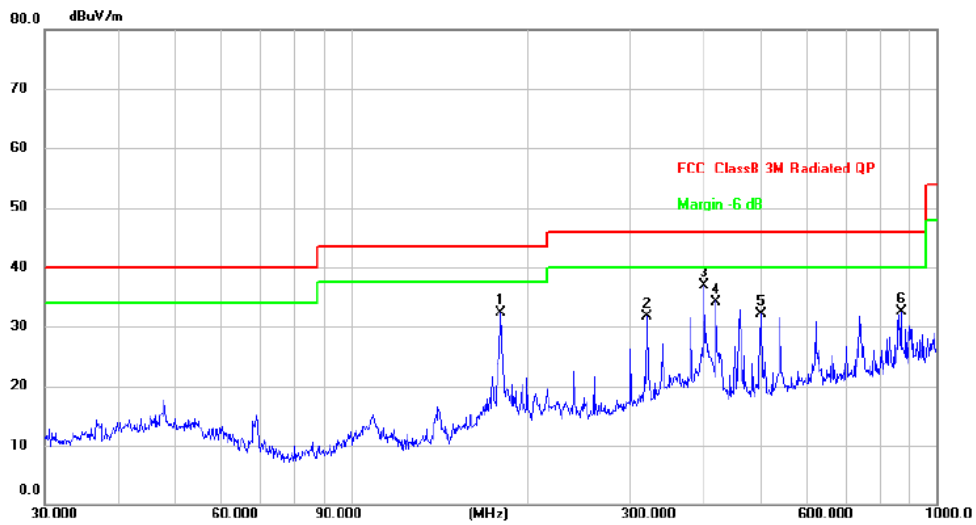
Mode1 / Polarization: Vertical CH: H



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	159.7844	43.01	-15.12	27.89	43.50	-15.61	peak	
2	180.0164	45.58	-14.86	30.72	43.50	-12.78	peak	
3	219.8446	39.01	-13.61	25.40	46.00	-20.60	peak	
4	340.7816	39.77	-8.86	30.91	46.00	-15.09	peak	
5	420.5803	40.81	-8.49	32.32	46.00	-13.68	peak	
6 *	821.7103	36.91	-1.78	35.13	46.00	-10.87	peak	

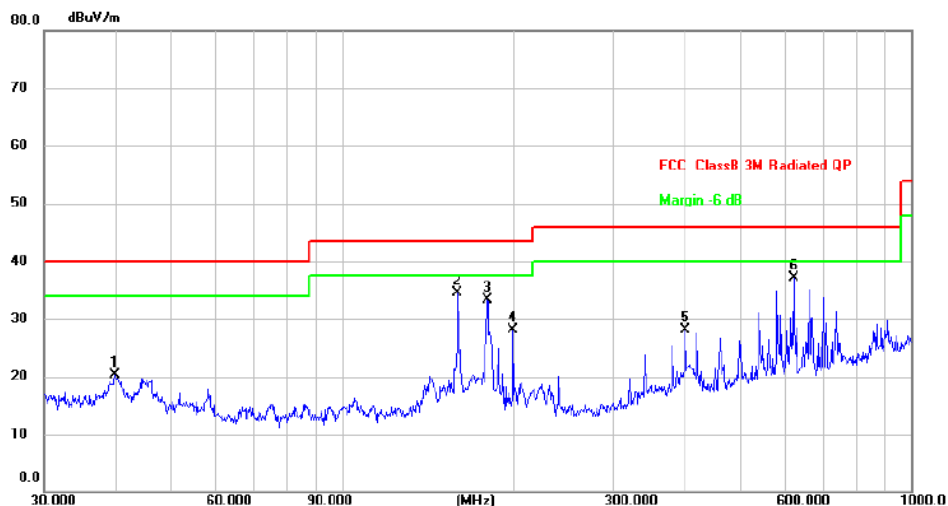
M250

Mode1 / Polarization: Horizontal CH: H



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	180.0164	47.08	-14.86	32.22	43.50	-11.28	peak	
2	319.9368	41.36	-9.72	31.64	46.00	-14.36	peak	
3 *	400.4318	45.84	-9.00	36.84	46.00	-9.16	peak	
4	420.5803	42.69	-8.49	34.20	46.00	-11.80	peak	
5	501.1788	38.93	-6.79	32.14	46.00	-13.86	peak	
6	869.1300	33.10	-0.60	32.50	46.00	-13.50	peak	

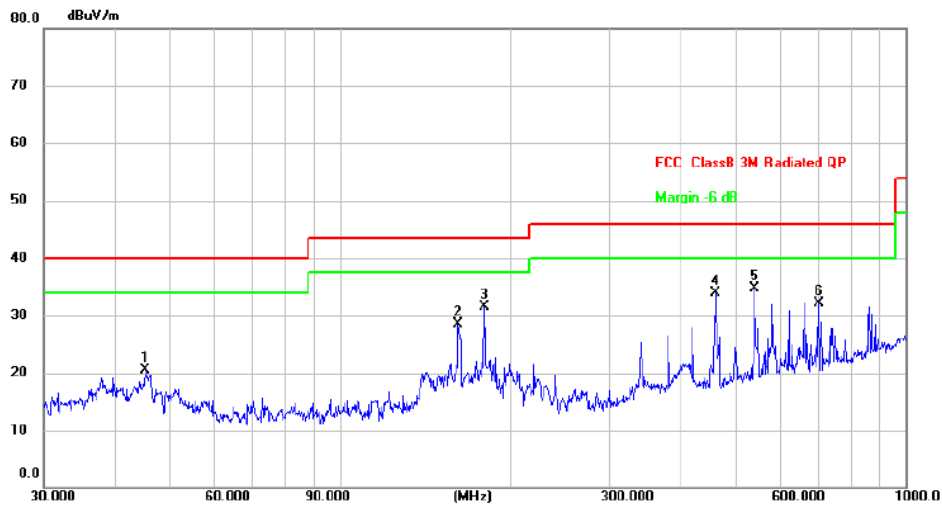
Mode1 / Polarization: Vertical CH: H



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	39.9941	33.87	-13.58	20.29	40.00	-19.71	peak	
2	159.7844	49.59	-15.12	34.47	43.50	-9.03	peak	
3	180.0164	48.19	-14.86	33.33	43.50	-10.17	peak	
4	199.9855	39.96	-11.95	28.01	43.50	-15.49	peak	
5	400.4318	37.12	-9.00	28.12	46.00	-17.88	peak	
6 *	620.7096	41.27	-4.25	37.02	46.00	-8.98	peak	

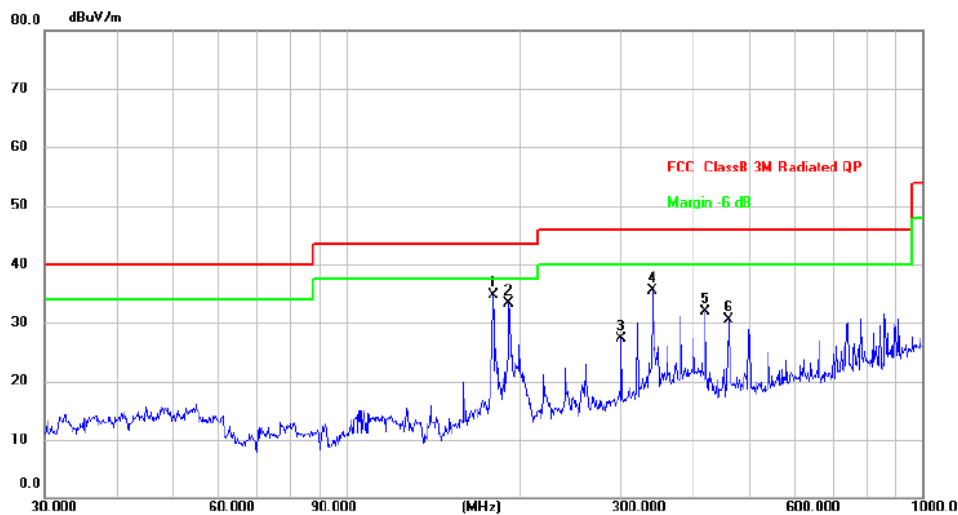
M260

Mode1 / Polarization: Horizontal CH: H



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	45.3753	32.81	-12.35	20.46	40.00	-19.54	peak	
2	162.0413	44.12	-15.55	28.57	43.50	-14.93	peak	
3	180.0164	46.31	-14.86	31.45	43.50	-12.05	peak	
4	460.7271	41.42	-7.58	33.84	46.00	-12.16	peak	
5 *	539.4773	41.03	-6.33	34.70	46.00	-11.30	peak	
6	701.7607	36.06	-4.04	32.02	46.00	-13.98	peak	

Mode1 / Polarization: Vertical CH: H



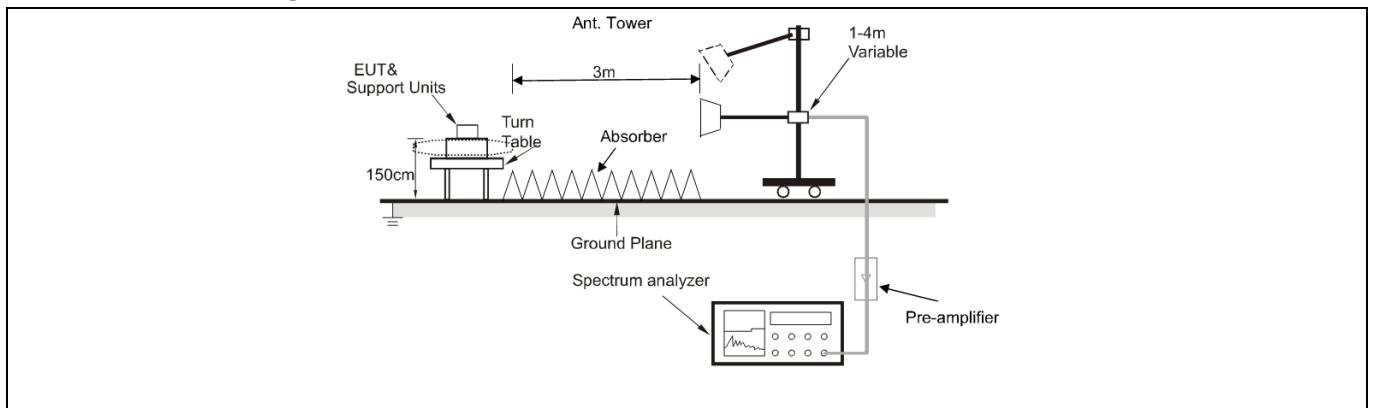
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1 *	180.0164	49.47	-14.86	34.61	43.50	-8.89	peak	
2	191.7450	47.62	-14.25	33.37	43.50	-10.13	peak	
3	300.3672	37.10	-9.83	27.27	46.00	-18.73	peak	
4	340.7816	44.32	-8.86	35.46	46.00	-10.54	peak	
5	420.5803	40.42	-8.49	31.93	46.00	-14.07	peak	
6	460.7271	38.18	-7.58	30.60	46.00	-15.40	peak	

6.8 Radiated emissions (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.		
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.6.4		

6.8.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24 °C	Humidity:	54 %
		Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2		
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report		
Note: Test frequency are from 1GHz to 25GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported.			

6.8.2 Test Setup Diagram:


6.8.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4804.000	52.45	-7.70	44.75	74.00	-29.25	peak
2		4804.000	46.35	-7.70	38.65	54.00	-15.35	AVG
3		7206.000	46.35	0.84	47.19	74.00	-26.81	peak
4		7206.000	40.37	0.84	41.21	54.00	-12.79	AVG
5		9608.000	49.20	1.81	51.01	74.00	-22.99	peak
6	*	9608.000	43.33	1.81	45.14	54.00	-8.86	AVG

Mode1 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4804.000	51.16	-7.70	43.46	74.00	-30.54	peak
2		4804.000	45.26	-7.70	37.56	54.00	-16.44	AVG
3		7206.000	46.46	0.84	47.30	74.00	-26.70	peak
4		7206.000	40.52	0.84	41.36	54.00	-12.64	AVG
5		9608.000	50.78	1.81	52.59	74.00	-21.41	peak
6	*	9608.000	44.85	1.81	46.66	54.00	-7.34	AVG

Mode1 / Polarization: Horizontal / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4880.000	55.46	-7.84	47.62	74.00	-26.38	peak
2		4880.000	49.52	-7.84	41.68	54.00	-12.32	AVG
3		7320.000	47.65	0.60	48.25	74.00	-25.75	peak
4		7320.000	41.61	0.60	42.21	54.00	-11.79	AVG
5		9760.000	48.17	2.60	50.77	74.00	-23.23	peak
6	*	9760.000	42.05	2.60	44.65	54.00	-9.35	AVG

Mode1 / Polarization: Vertical / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4880.000	50.14	-7.84	42.30	74.00	-31.70	peak
2		4880.000	44.05	-7.84	36.21	54.00	-17.79	AVG
3		7320.000	47.63	0.60	48.23	74.00	-25.77	peak
4		7320.000	41.76	0.60	42.36	54.00	-11.64	AVG
5		9760.000	47.89	2.60	50.49	74.00	-23.51	peak
6	*	9760.000	41.68	2.60	44.28	54.00	-9.72	AVG

Mode1 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4960.000	56.93	-7.73	49.20	74.00	-24.80	peak
2		4960.000	51.38	-7.73	43.65	54.00	-10.35	AVG
3		7440.000	46.72	0.78	47.50	74.00	-26.50	peak
4		7440.000	40.60	0.78	41.38	54.00	-12.62	AVG
5		9920.000	47.64	2.47	50.11	74.00	-23.89	peak
6	*	9920.000	41.79	2.47	44.26	54.00	-9.74	AVG

Mode1 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4960.000	54.05	-7.73	46.32	74.00	-27.68	peak
2		4960.000	48.35	-7.73	40.62	54.00	-13.38	AVG
3		7440.000	48.66	0.78	49.44	74.00	-24.56	peak
4		7440.000	42.54	0.78	43.32	54.00	-10.68	AVG
5		9920.000	50.65	2.47	53.12	74.00	-20.88	peak
6	*	9920.000	44.98	2.47	47.45	54.00	-6.55	AVG

Photographs of the test setup

Refer to Appendix - Test Setup Photos

Photographs of the EUT

Refer to Appendix - EUT Photos

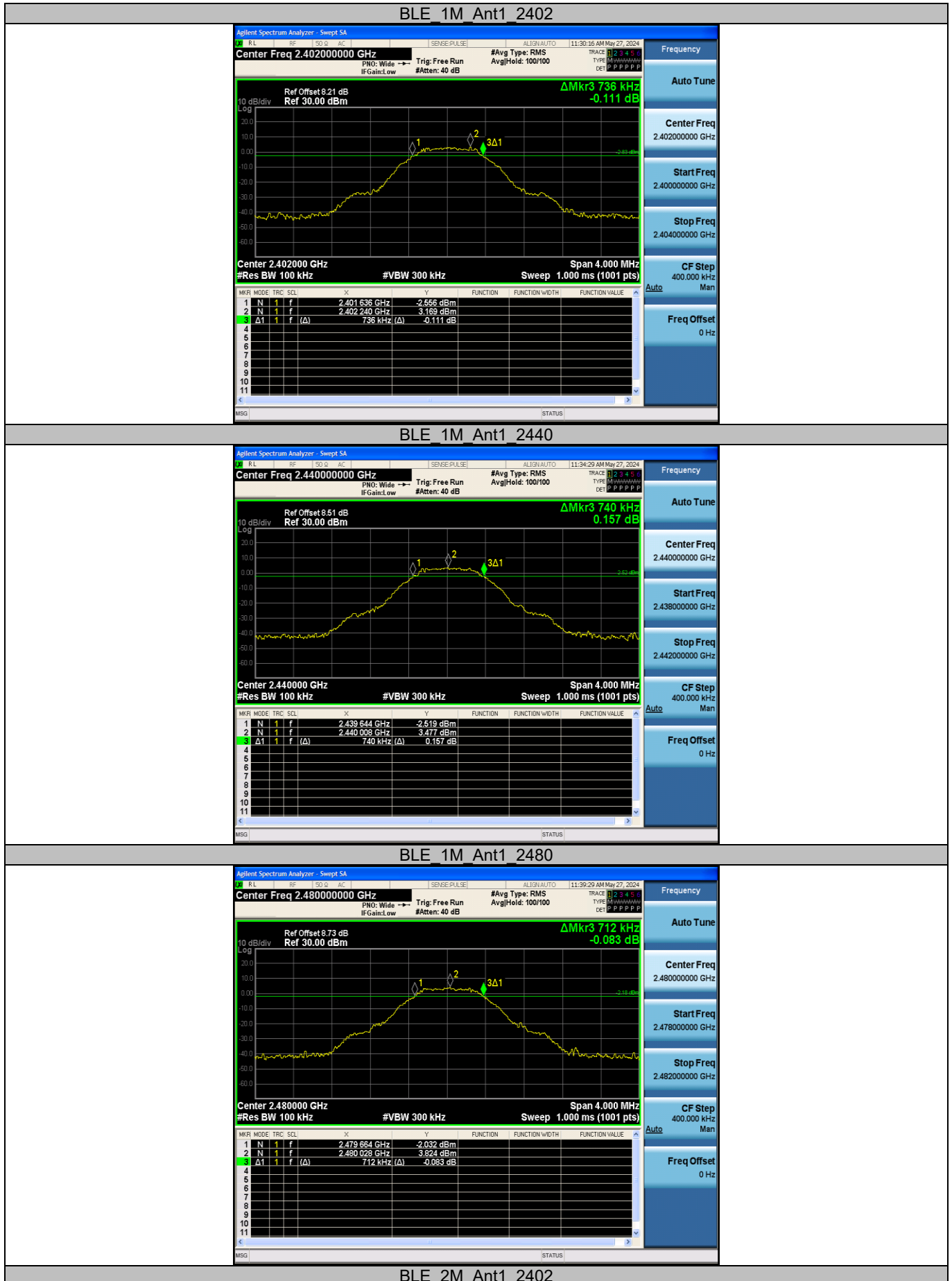
Appendix

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.736	0.5	PASS
		2440	0.740	0.5	PASS
		2480	0.712	0.5	PASS
BLE_2M	Ant1	2402	1.108	0.5	PASS
		2440	1.148	0.5	PASS
		2480	1.216	0.5	PASS

Test Graphs





BLE 2M Ant1 2440



BLE 2M Ant1 2480

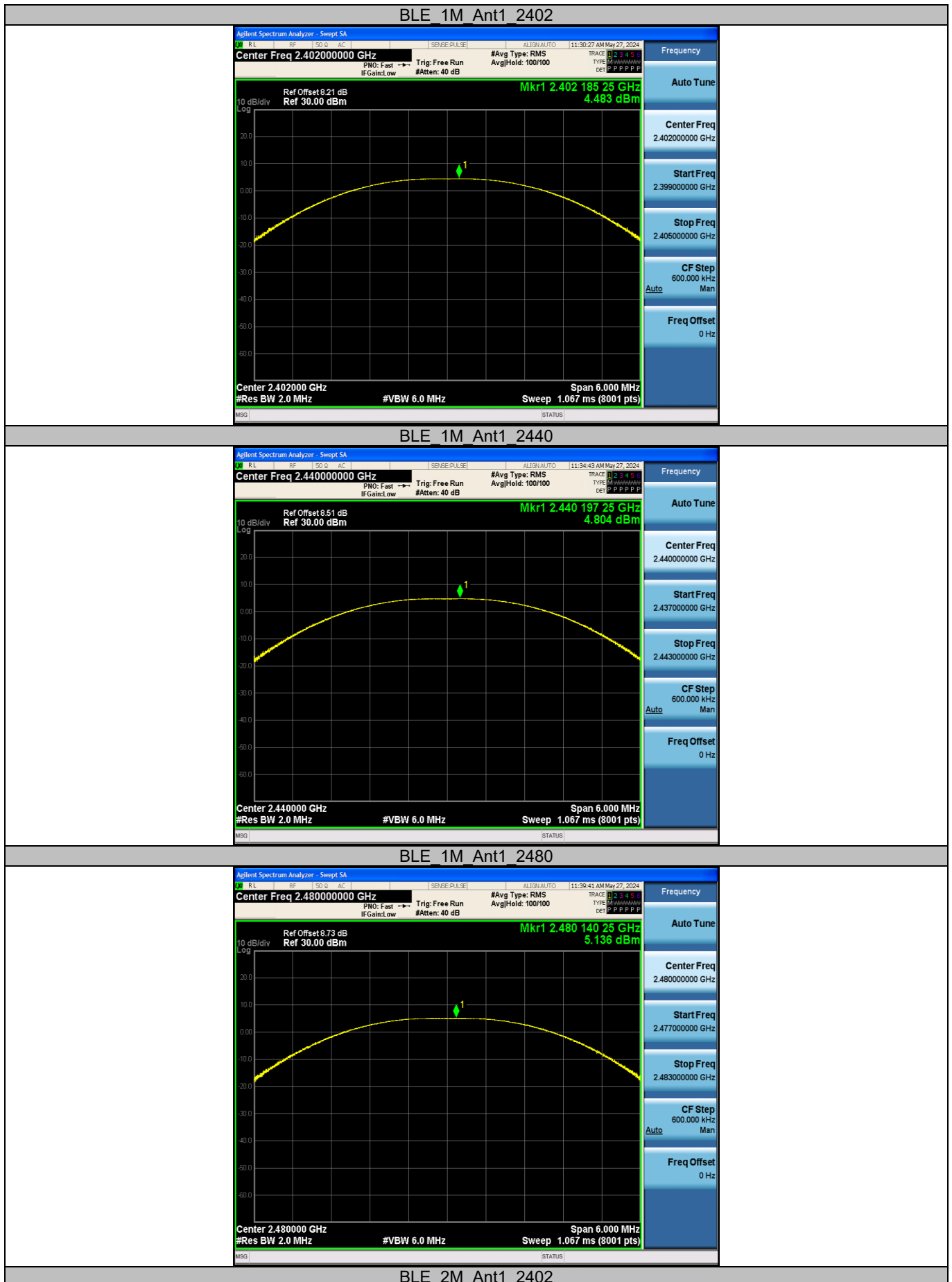


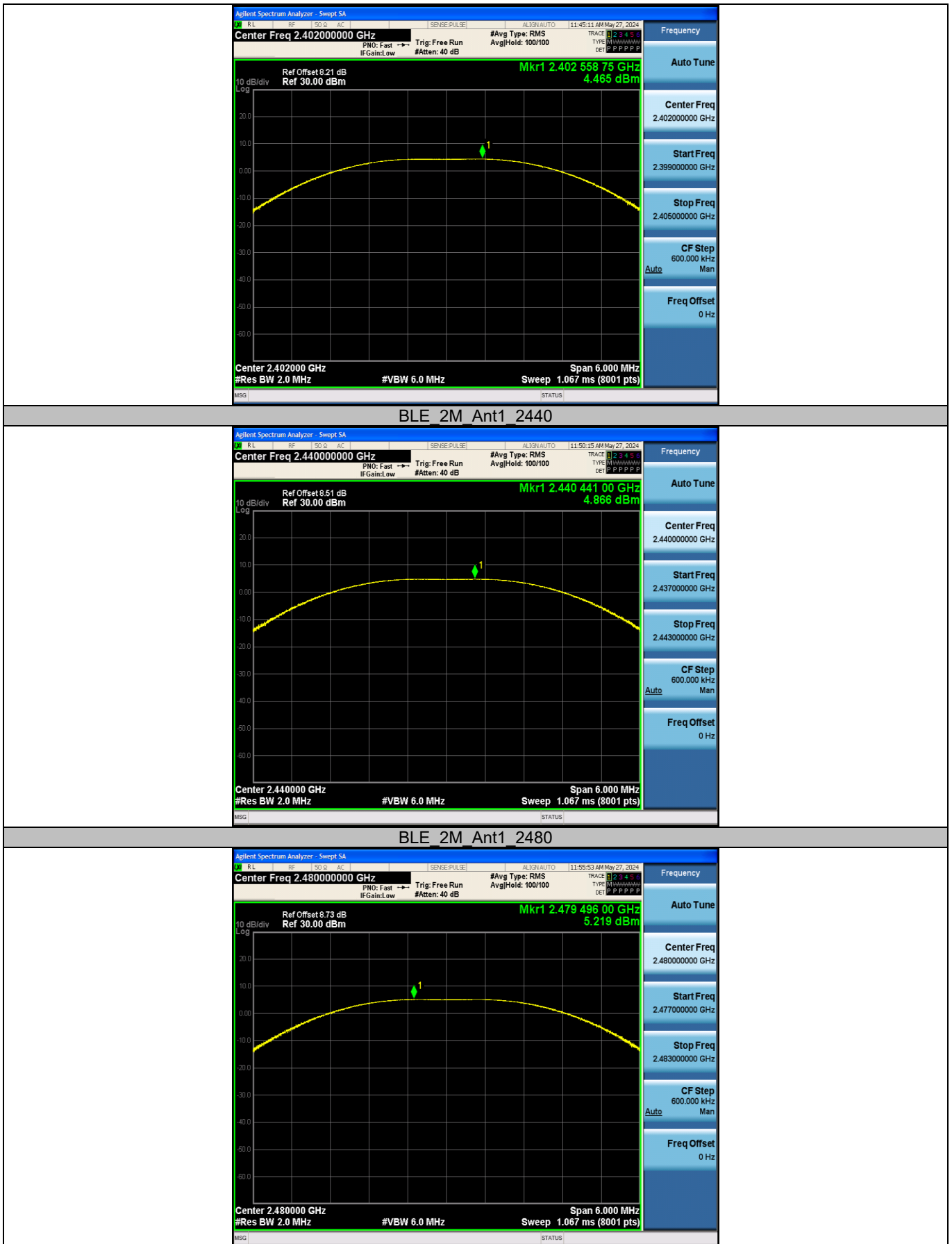
Appendix B: Maximum conducted output power

Test Result-Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	4.48	≤30	PASS
		2440	4.80	≤30	PASS
		2480	5.14	≤30	PASS
BLE_2M	Ant1	2402	4.47	≤30	PASS
		2440	4.87	≤30	PASS
		2480	5.22	≤30	PASS

Test Graphs



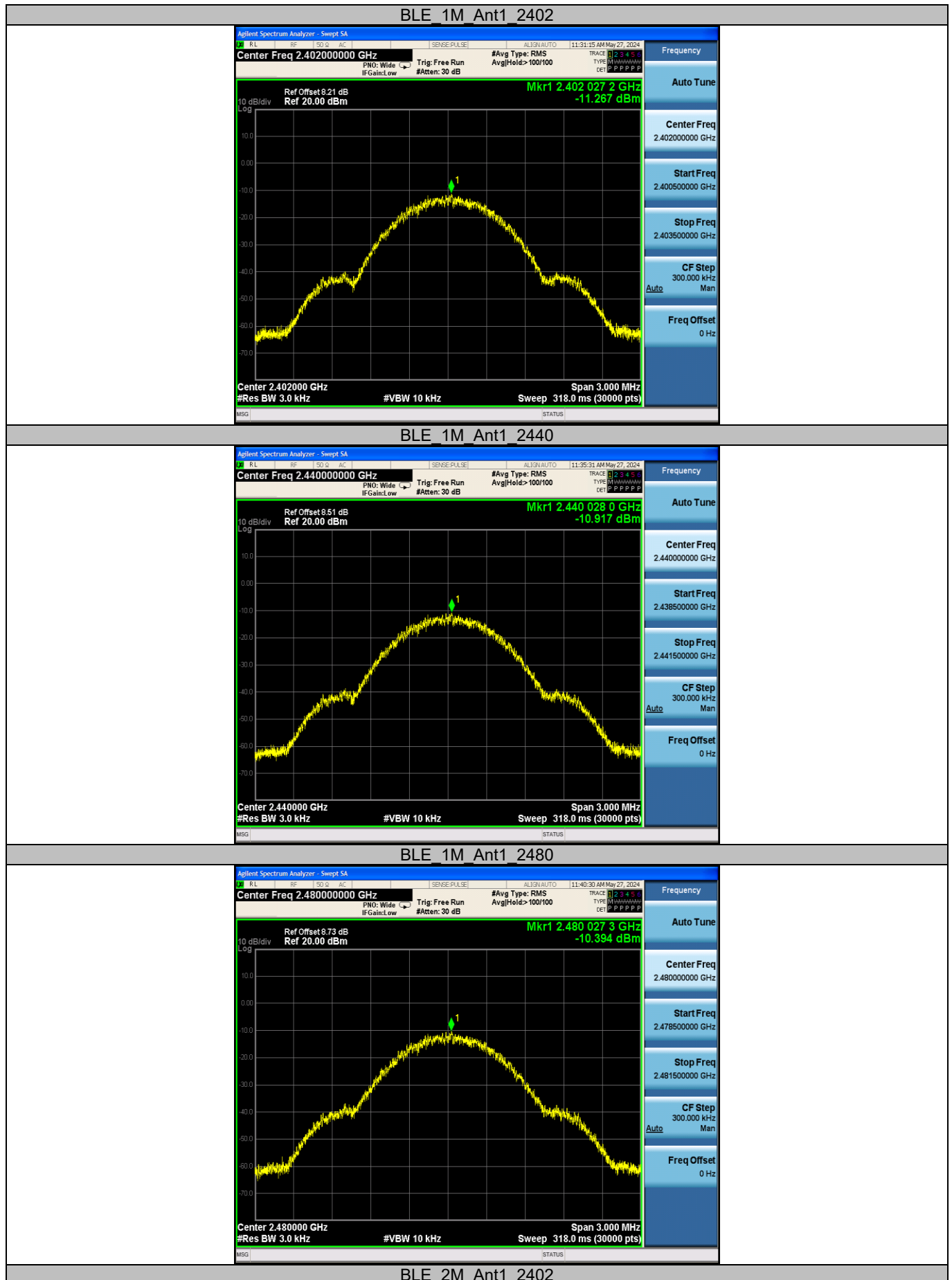


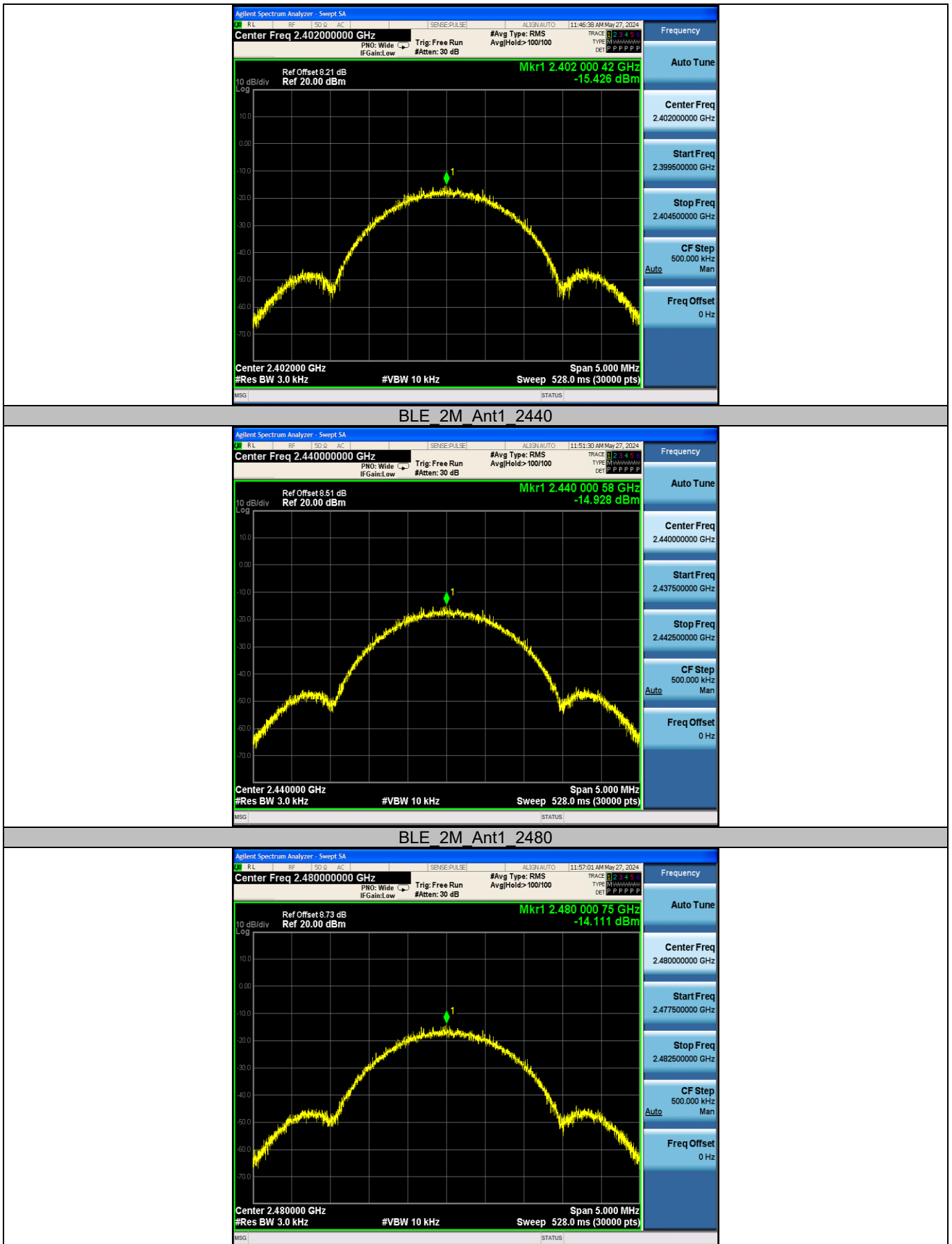
Appendix C: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.27	≤8.00	PASS
		2440	-10.92	≤8.00	PASS
		2480	-10.39	≤8.00	PASS
BLE_2M	Ant1	2402	-15.43	≤8.00	PASS
		2440	-14.93	≤8.00	PASS
		2480	-14.11	≤8.00	PASS

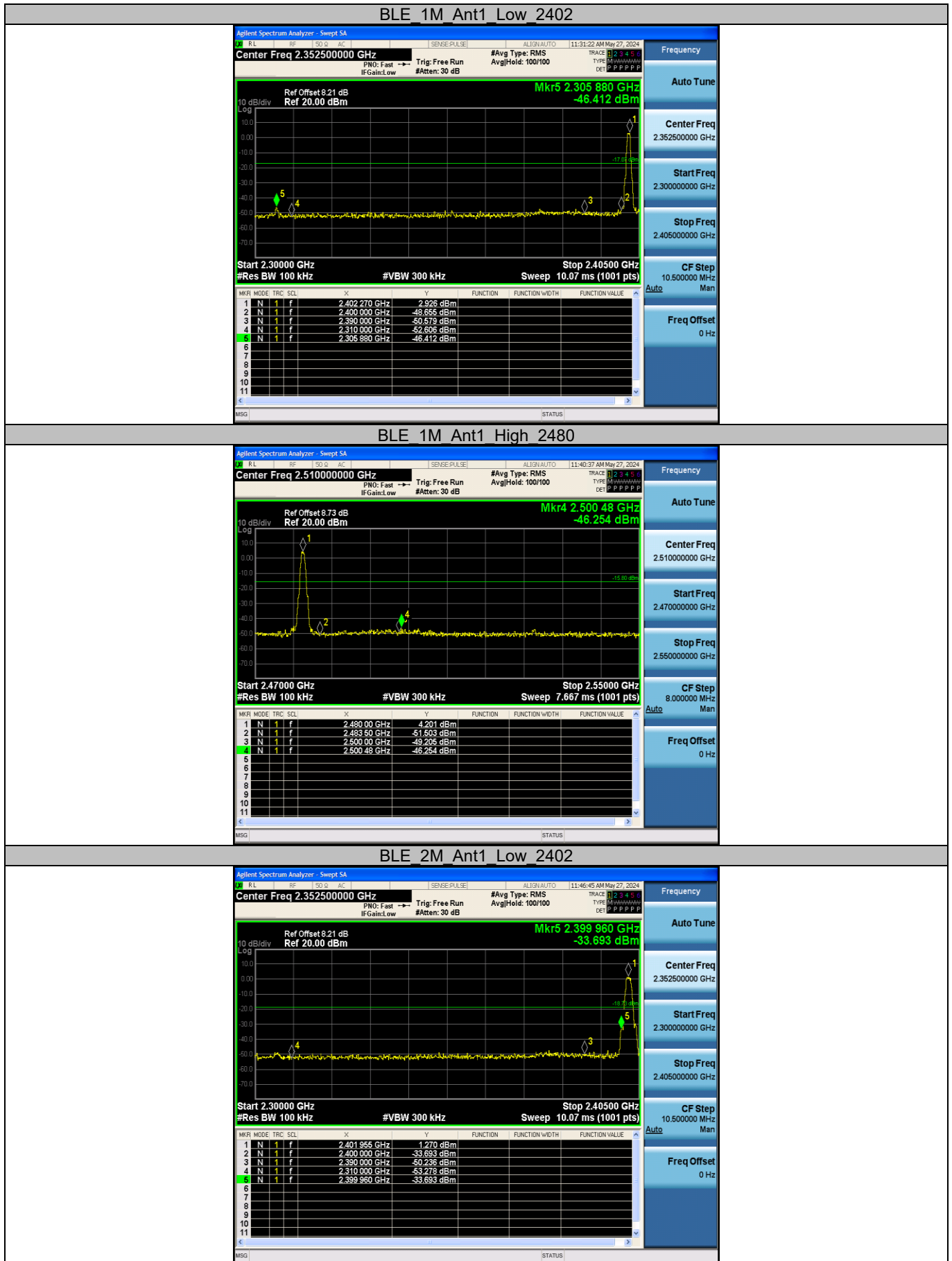
Test Graphs

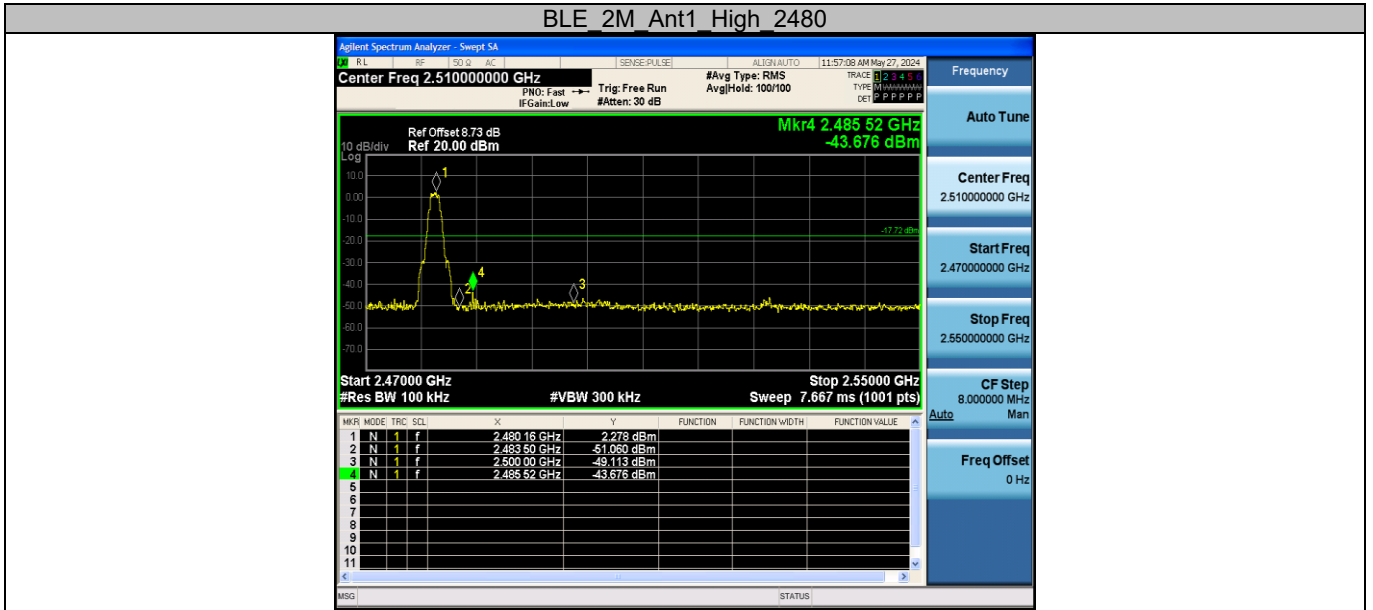




Appendix D: Band edge measurements

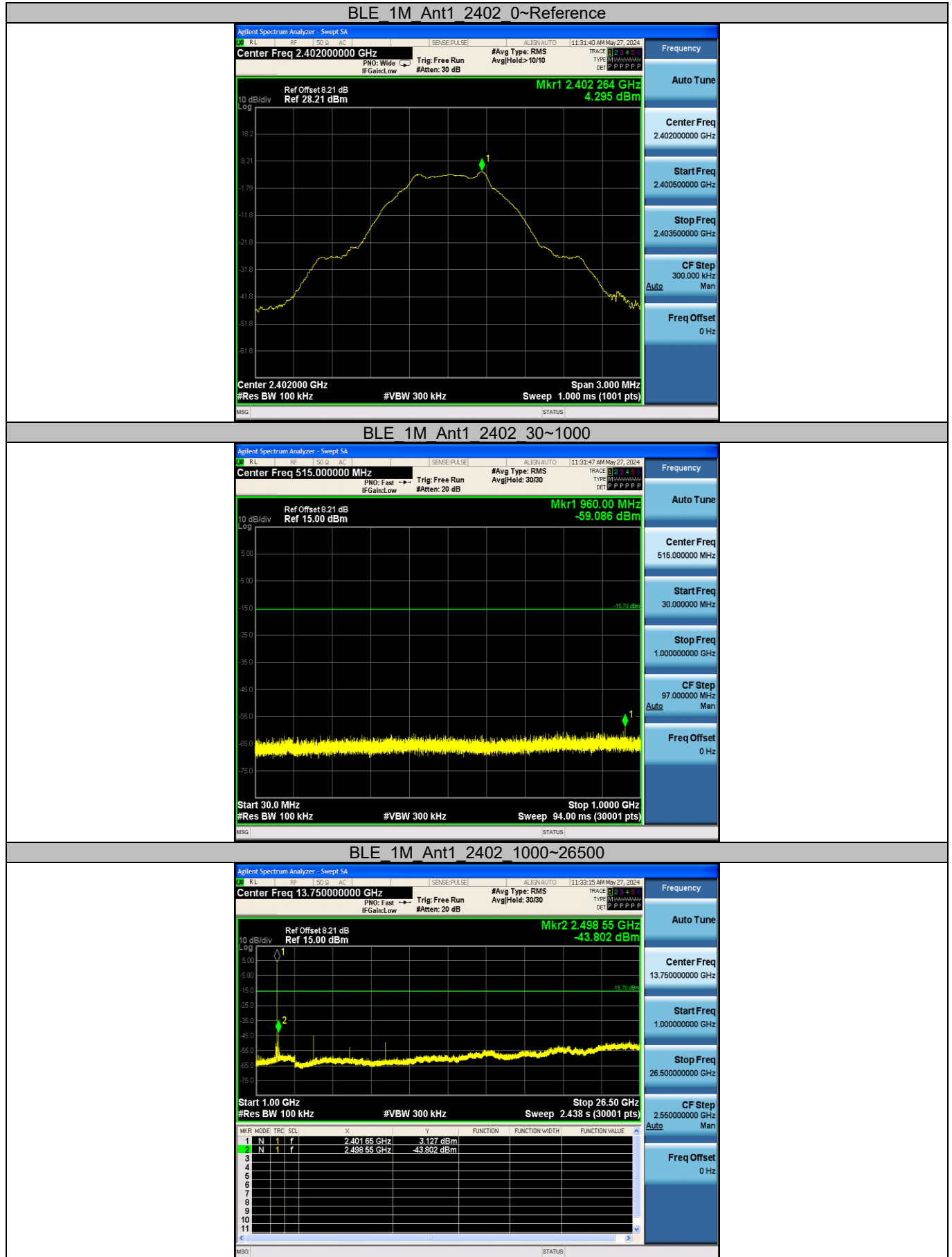
Test Graphs



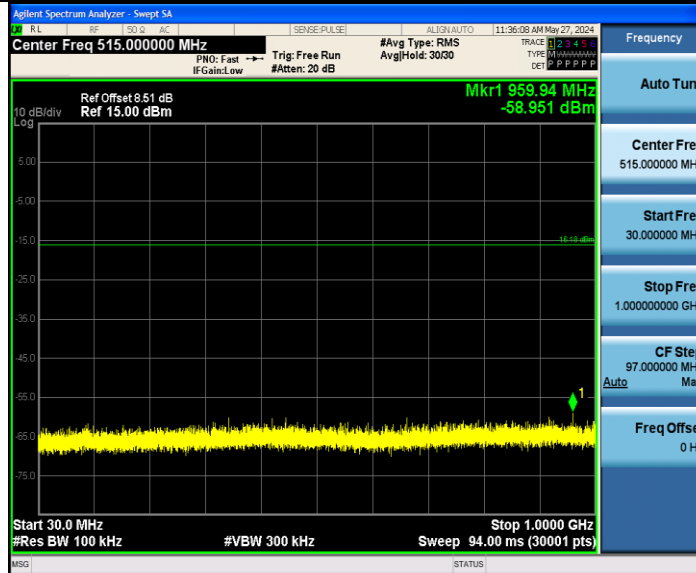


Appendix E: Conducted Spurious Emission

Test Graphs



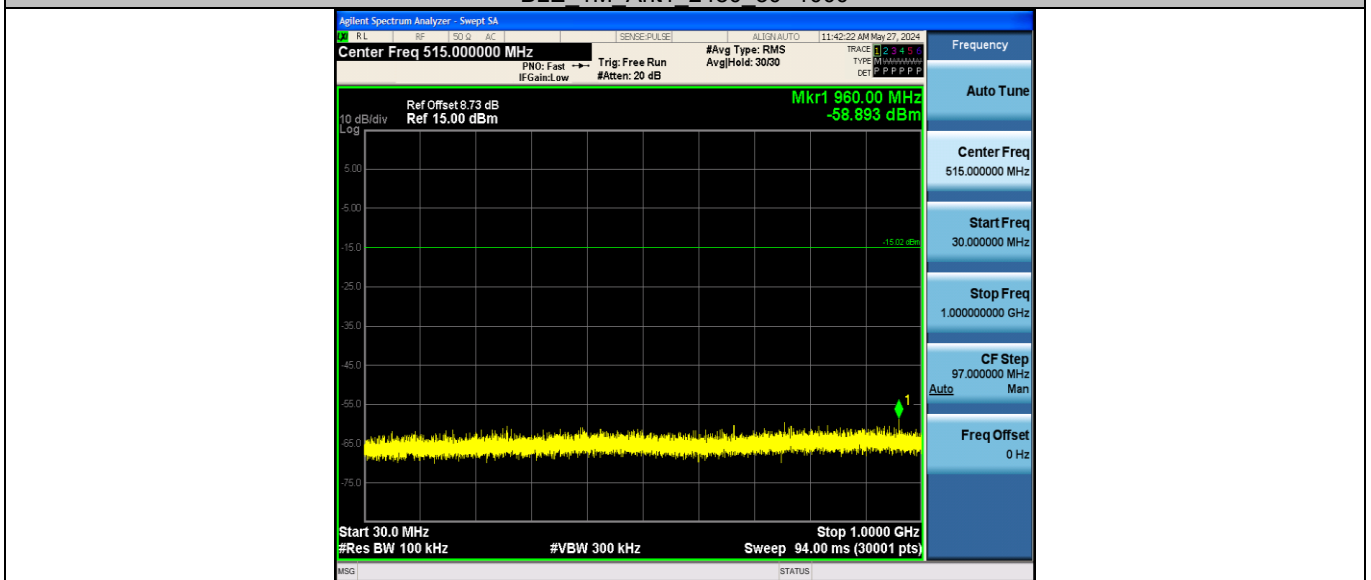
BLE 1M Ant1 2440 0~Reference

BLE 1M Ant1 2440 30~1000

BLE 1M Ant1 2440 1000~26500

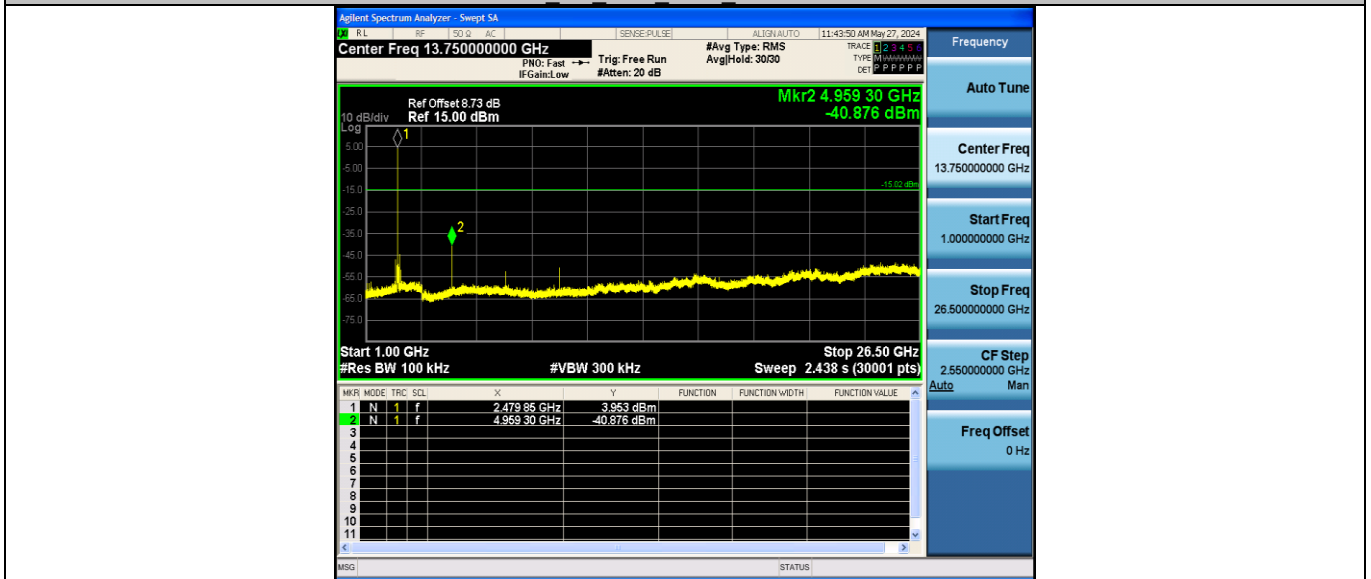
BLE 1M Ant1 2480 0~Reference



BLE 1M Ant1 2480 30~1000



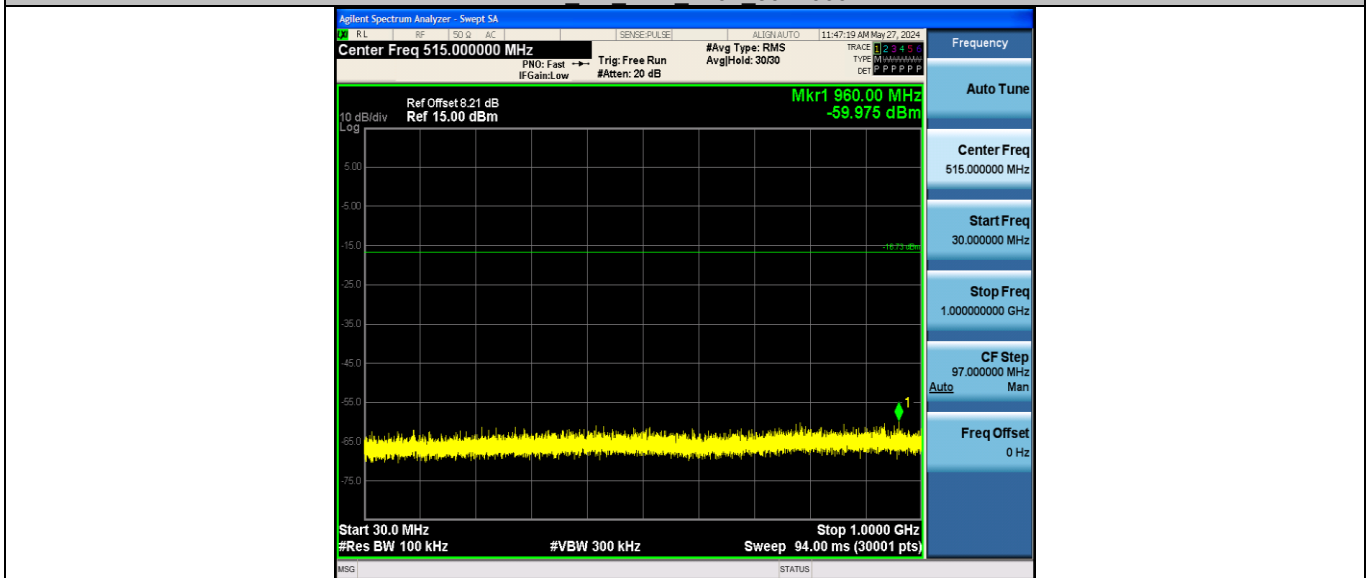
BLE 1M Ant1 2480 1000~26500



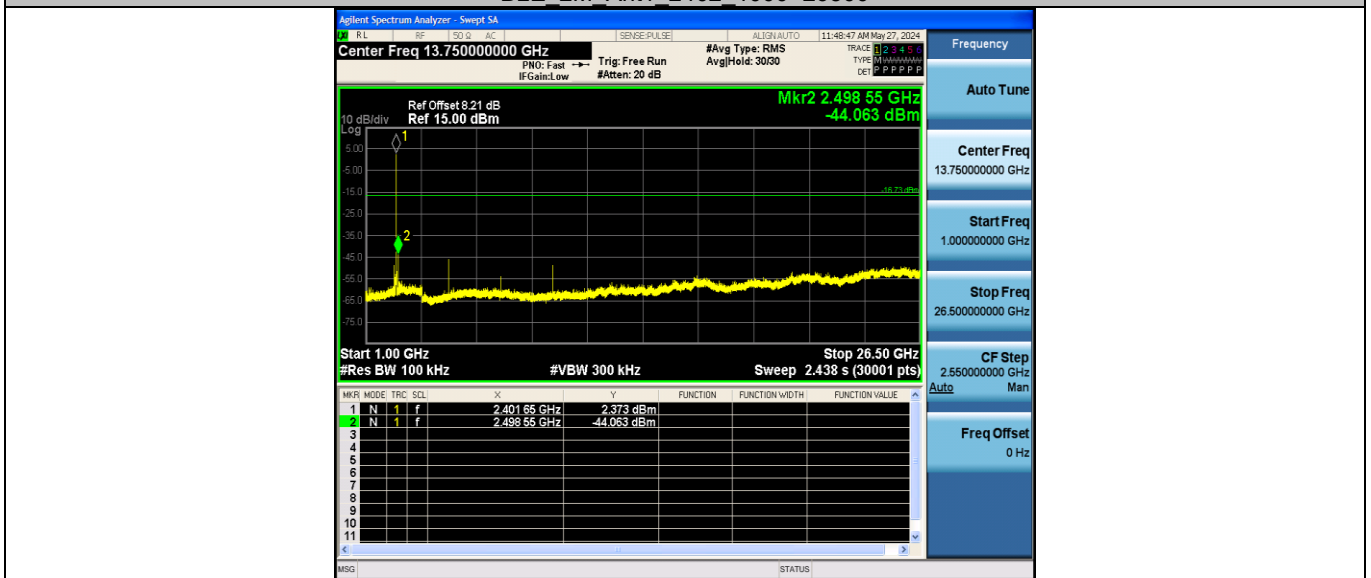
BLE 2M Ant1 2402 0~Reference



BLE 2M Ant1 2402 30~1000



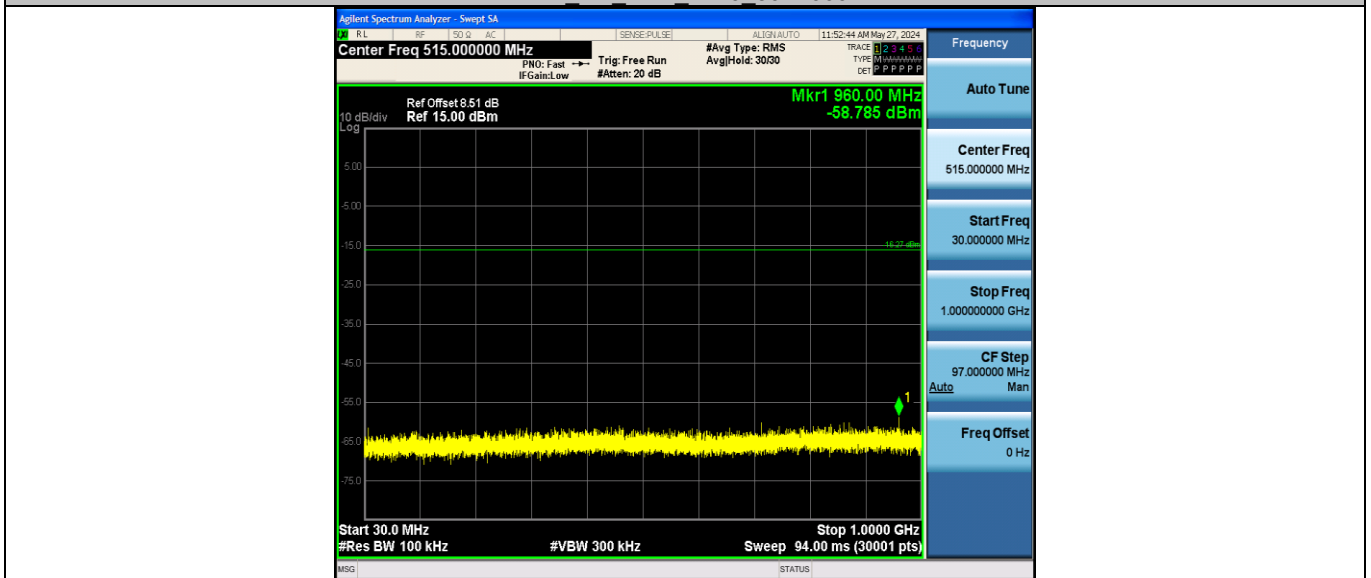
BLE 2M Ant1 2402 1000~26500



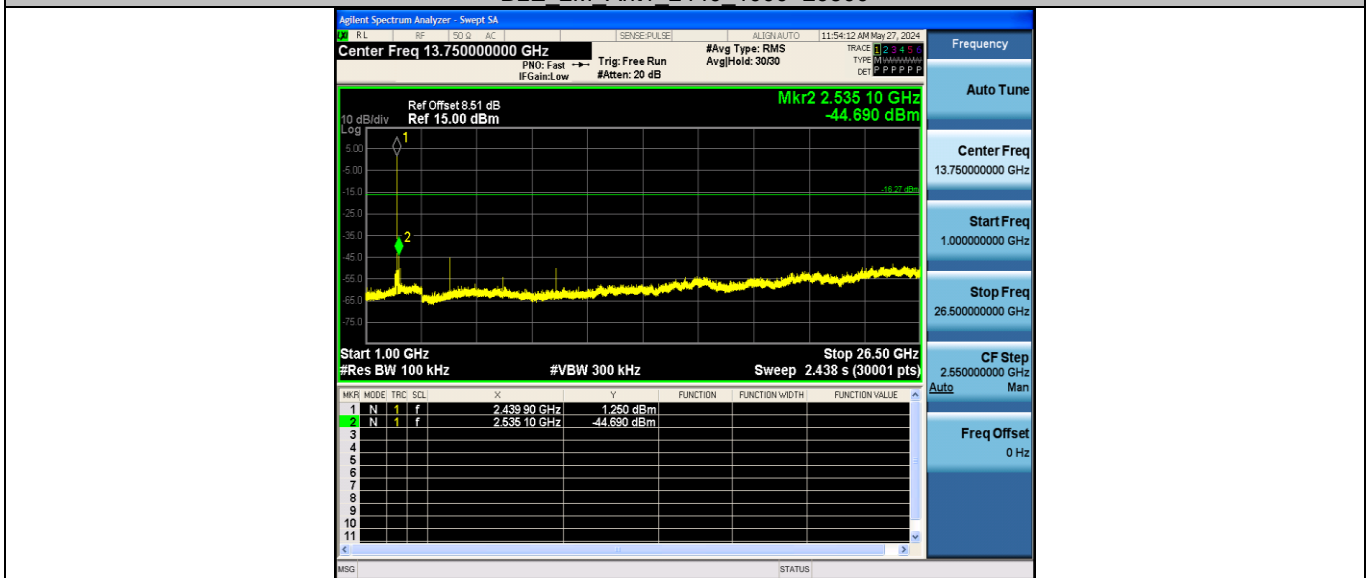
BLE 2M Ant1 2440 0~Reference



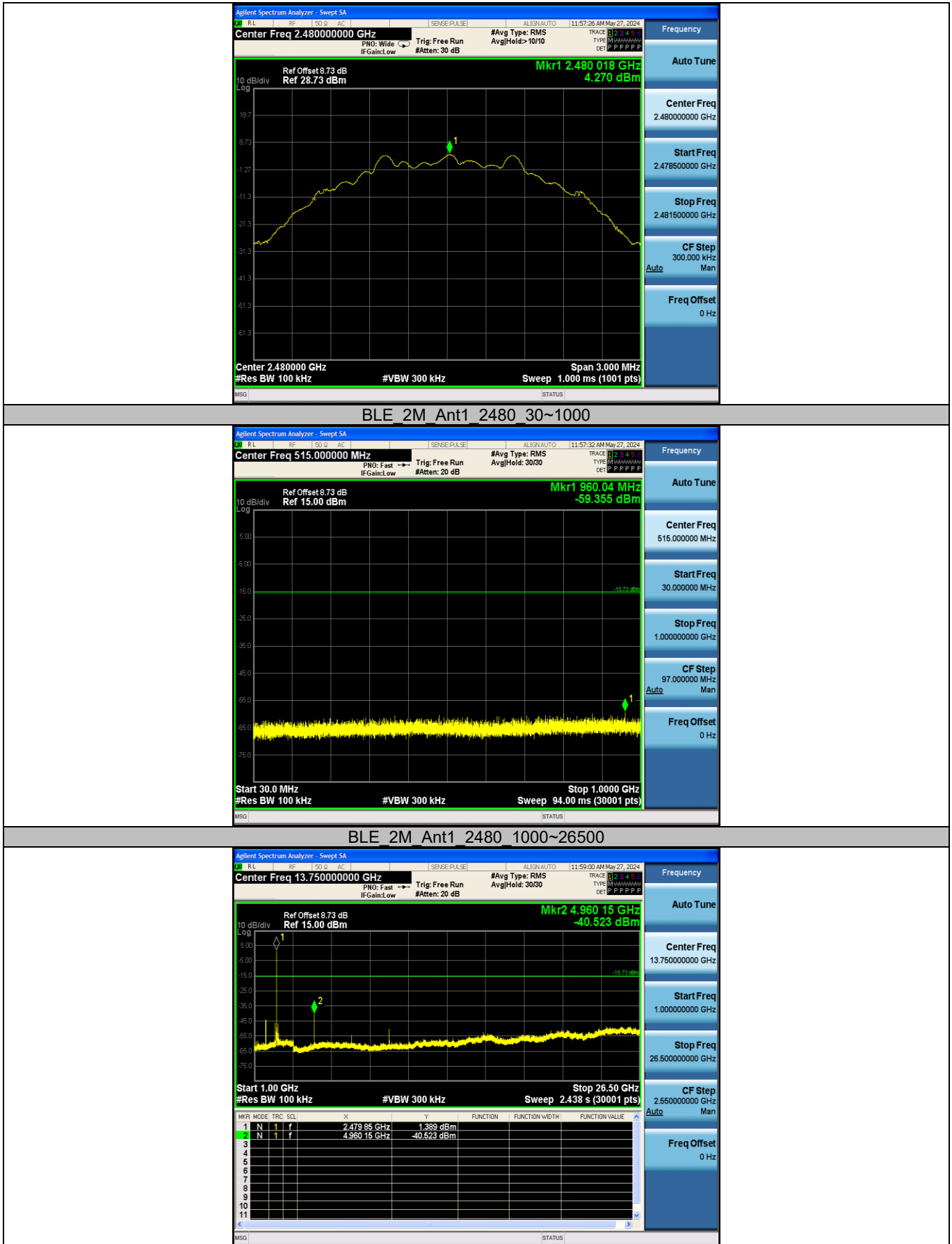
BLE 2M Ant1 2440 30~1000



BLE 2M Ant1 2440 1000~26500



BLE 2M Ant1 2480 0~Reference

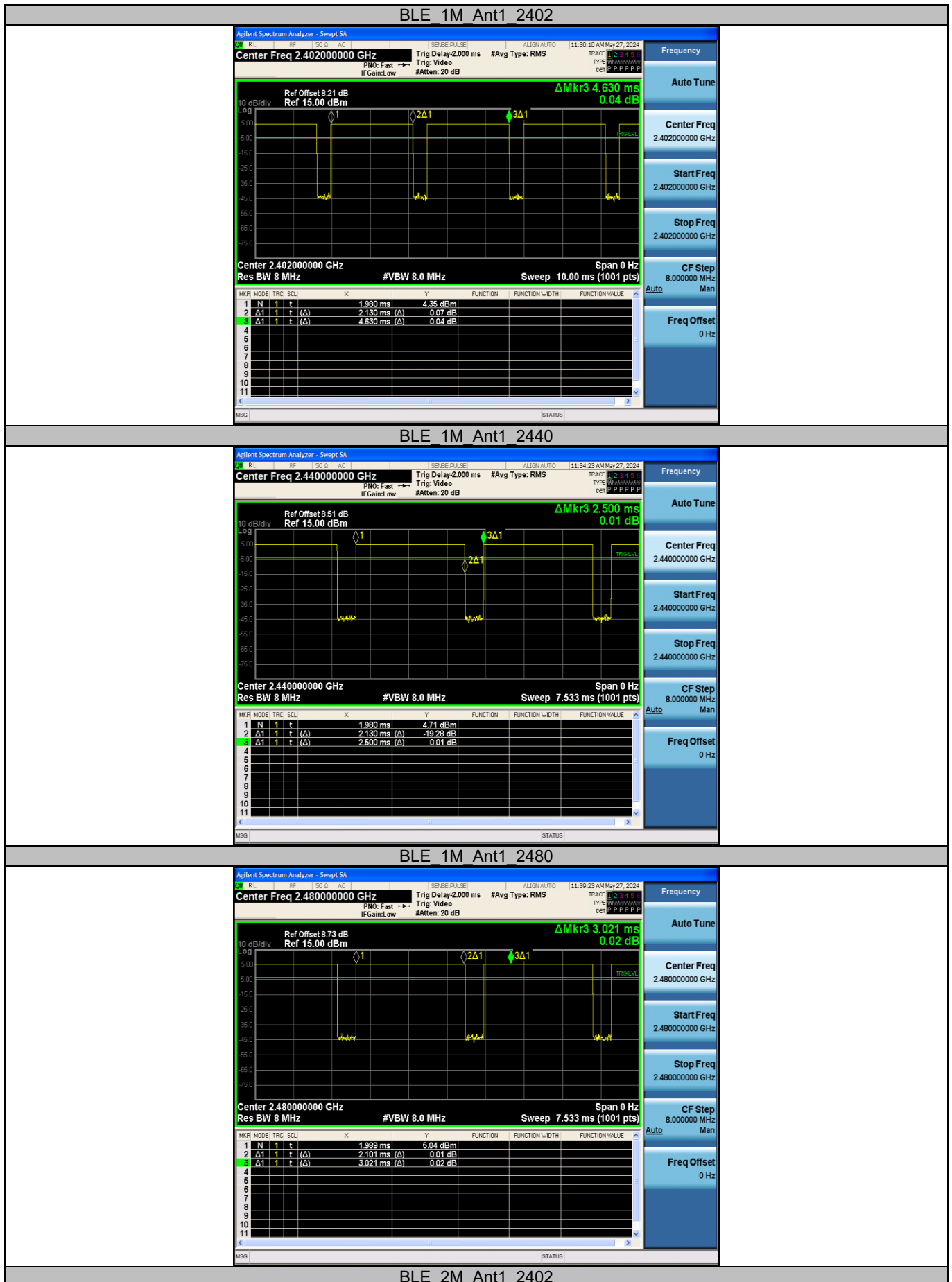


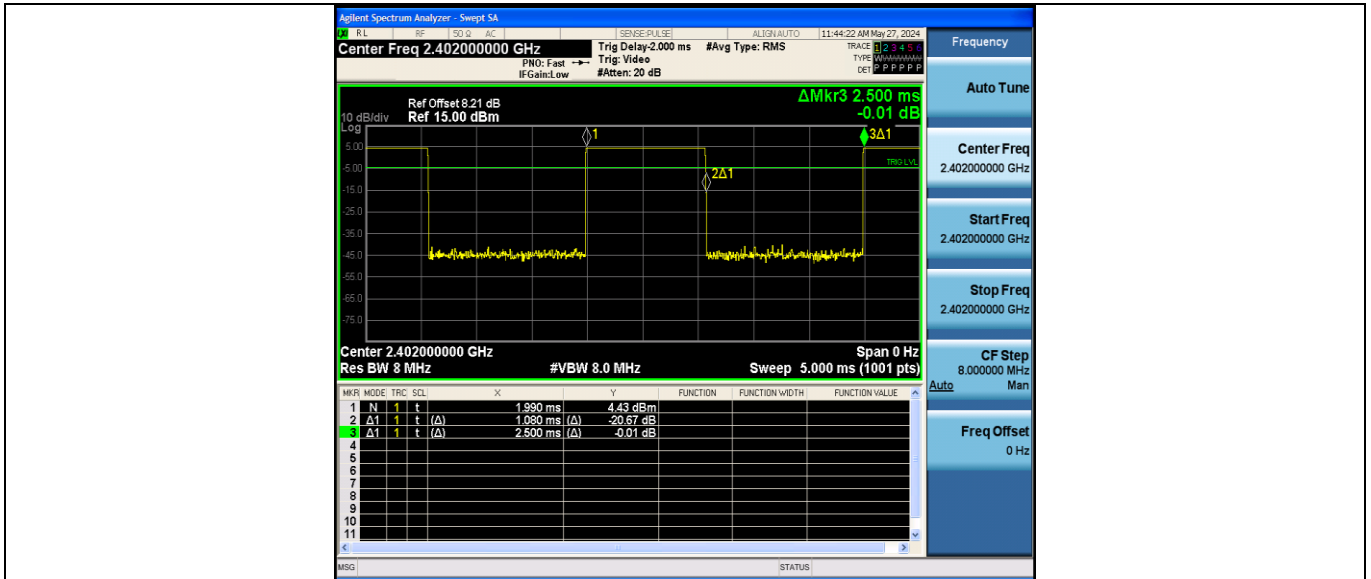
Appendix F: Duty Cycle

Test Result

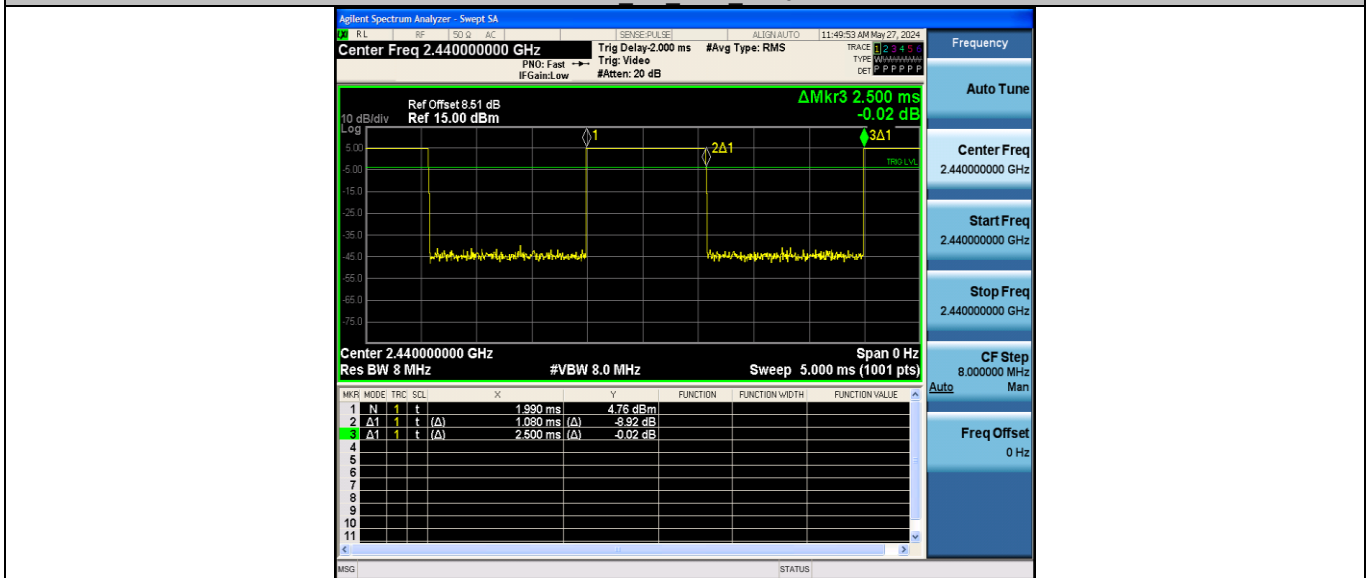
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	4.63	46.00	3.37
		2440	2.13	2.50	85.20	0.70
		2480	2.10	3.02	69.54	1.58
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
		2440	1.08	2.50	43.20	3.65
		2480	1.08	2.50	43.20	3.65

Test Graphs

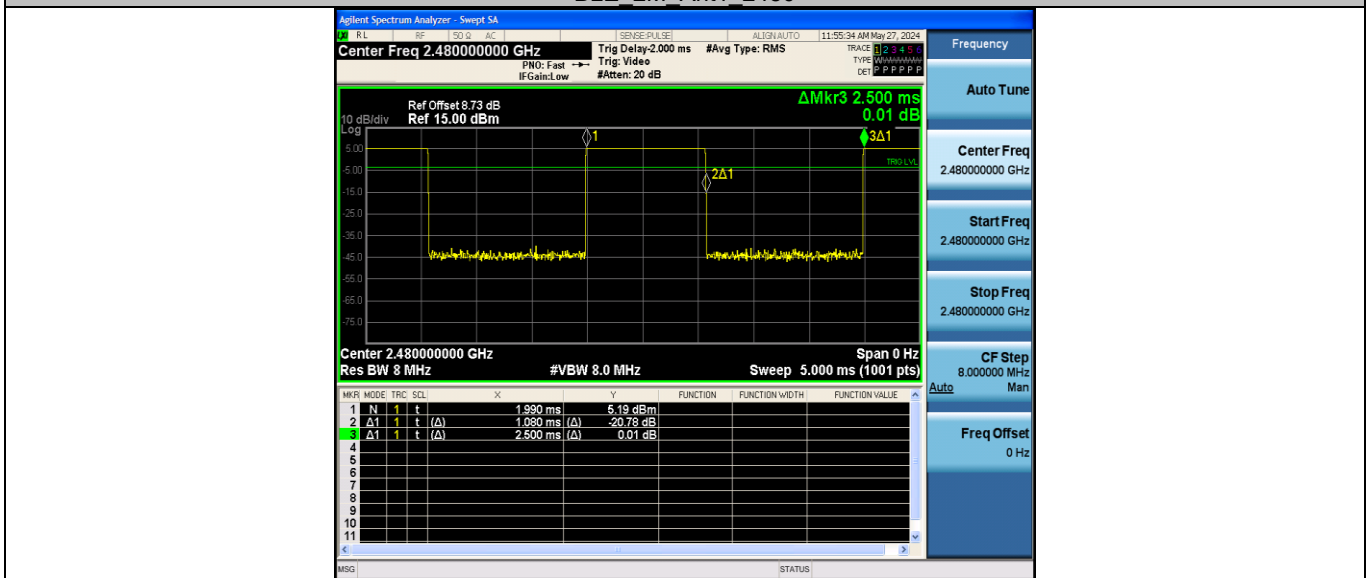




BLE 2M Ant1 2440



BLE 2M Ant1 2480



---End of Report---