

Test Report

Report No.: MTi230809007-04E1

Date of issue: 2023-09-25

Applicant: Shenzhen Baseus Technology Co., Ltd.

Product: Baseus Brilliance Series Detachable Magnetic Keyboard Case, Baseus Brilliance Series Detachable Magnetic Keyboard (10.9 inches)

Model(s): BS-PC026

FCC ID: 2A482-BS-PC026

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

The test report is only used for customer scientific research, teaching, internal quality control and other purposes, and is for internal reference only.



Instructions

1. This test report shall not be partially reproduced without the written consent of the laboratory.
2. The test results in this test report are only responsible for the samples submitted
3. This test report is invalid without the seal and signature of the laboratory.
4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.
5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

Table of contents

1	General Description	5
1.1	Description of the EUT	5
1.2	Description of test modes	5
1.3	Environmental Conditions	7
1.4	Description of support units	7
1.5	Measurement uncertainty	7
2	Summary of Test Result	8
3	Test Facilities and accreditations	9
3.1	Test laboratory	9
4	List of test equipment.....	10
5	Evaluation Results (Evaluation).....	11
5.1	Antenna requirement	11
6	Radio Spectrum Matter Test Results (RF)	11
6.1	Conducted Emission at AC power line	11
6.2	Occupied Bandwidth	14
6.3	Maximum Conducted Output Power.....	15
6.4	Power Spectral Density	16
6.5	Emissions in frequency bands.....	17
6.6	Band edge emissions (Radiated)	18
6.7	Radiated emissions (below 1GHz)	21
6.8	Radiated emissions (above 1GHz).....	27
	Photographs of the test setup	31
	Photographs of the EUT.....	32
	Appendix A: DTS Bandwidth	34
	Appendix B: Maximum conducted output power.....	36
	Appendix C: Maximum power spectral density.....	38
	Appendix D: Band edge measurements	40
	Appendix E: Conducted Spurious Emission	41
	Appendix F: Duty Cycle	44

Test Result Certification	
Applicant:	Shenzhen Baseus Technology Co., Ltd.
Address:	2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.
Manufacturer:	Shenzhen Baseus Technology Co., Ltd.
Address:	2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.
Factory:	Shenzhen Youcaijia Technology Co., LTD
Address:	No. 121, Shapu 2nd Road, Shapu Community, Songgang Street, Baoan District, Shenzhen City, Guangdong Province
Product description	
Product name:	Baseus Brilliance Series Detachable Magnetic Keyboard Case, , Baseus Brilliance Series Detachable Magnetic Keyboard (10.9 inches)
Trademark:	baseus
Model name:	BS-PC026
Series Model:	N/A
Standards:	47 CFR Part 15.247
Test Method:	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02
Date of Test	
Date of test:	2023-08-25 to 2023-08-31
Test result:	Pass

Test Engineer	:	<i>Yanice Xie</i>
		(Yanice.Xie)
Reviewed By	:	<i>Leon Chen</i>
		(Leon Chen)
Approved By	:	<i>Tom Xue</i>
		(Tom Xue)

1 General Description

1.1 Description of the EUT

Product name:	Baseus Brilliance Series Detachable Magnetic Keyboard Case, Baseus Brilliance Series Detachable Magnetic Keyboard (10.9 inches)
Model name:	BS-PC026
Series Model:	N/A
Model difference:	All the models are the same circuit and module, except the product name, size and the shape of camera hole.
Electrical rating:	Input:DC 5V or DC3.7V by battery Battery: DC3.7V/ 600mAh/ 2.22Wh
Accessories:	Cable:USB-A to Type-C 1m
Test sample(s) number:	MTi230809007-04S1001 MTi230809007-04S1002
RF specification	
Bluetooth version:	V4.2
Operating frequency range:	2402-2480
Channel number:	40
Modulation type:	GFSK
Antenna(s) type:	0.08 dBi
Antenna(s) gain:	PCB Antenna

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-GFSK(CH00/CH19/CH39)

1.2.1 Operation channel list

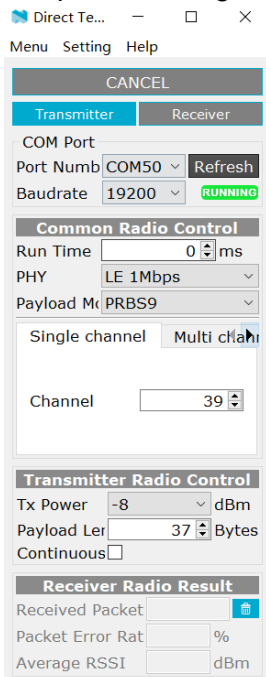
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software:

Mode	Test Software	BT Tool		
	Channel	2402MHz	2440MHz	2480MHz
GFSK	Power setting	-8	-8	-8

For power setting, refer to below table.



1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

Support equipment list			
Description	Model	Serial No.	Manufacturer
iPad	/	/	Apple
Support cable list			
Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Occupied channel bandwidth	±3 %
RF output power, conducted	±1 dB
Power Spectral Density, conducted	±1 dB
Unwanted Emissions, conducted	±1 dB
Radiated spurious emissions (above 1GHz)	±5.3dB
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	± 5 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
3	Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass
4	Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass
5	Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass
6	Emissions in frequency bands	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
7	Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d) 47 CFR 15.205	Pass
8	Radiated emissions (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d) 47 CFR 15.209	Pass
9	Radiated emissions (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d) 47 CFR 15.209	Pass

3 Test Facilities and accreditations

3.1 Test laboratory

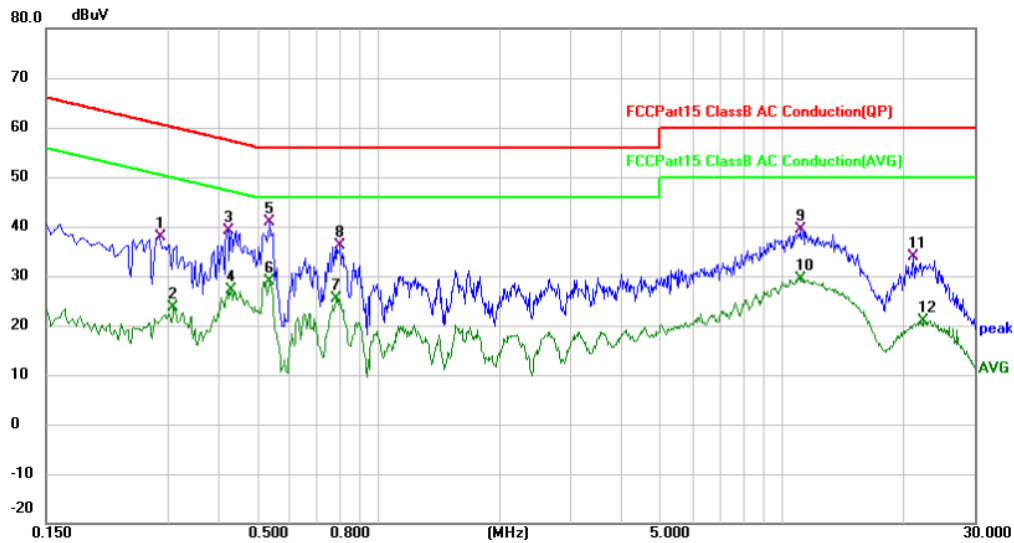
Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Conducted Emission at AC power line						
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2023-04-26	2024-04-25
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2023-05-05	2024-05-04
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2023-06-03	2024-06-02
Occupied Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in frequency bands						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04
Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2023-05-26	2024-05-25
3	Amplifier	Agilent	8449B	3008A01120	2023-06-26	2024-06-25
4	Multi-device Controller	TuoPu	TPMDC	/	2023-05-04	2024-05-03
5	MXA signal analyzer	Agilent	N9020A	MY54440859	2023-05-05	2024-05-04
Emissions in frequency bands (below 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-06-26	2024-06-25
4	Multi-device Controller	TuoPu	TPMDC	/	2023-05-04	2024-05-03
5	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2023-06-11	2025-06-10

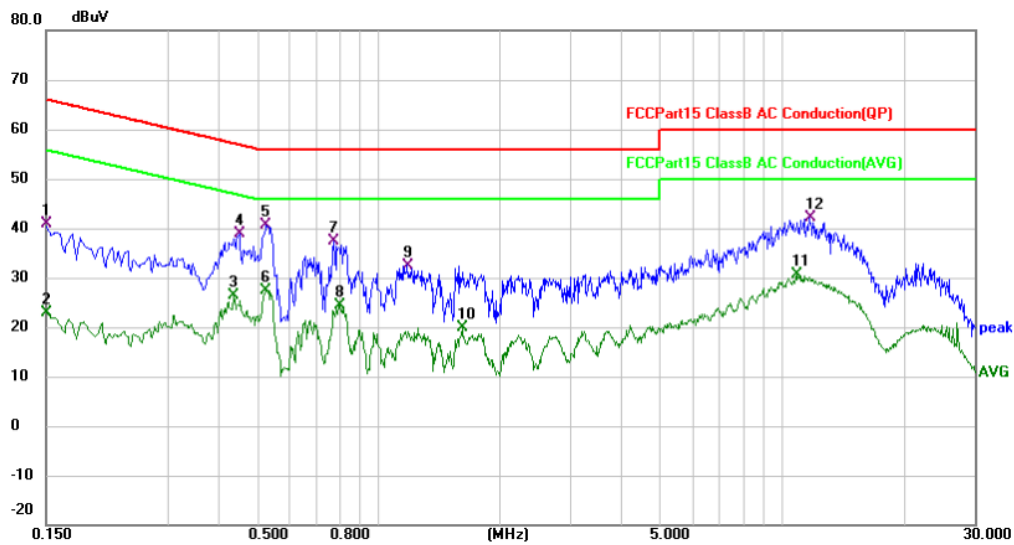
6.1.3 Test Data:

Mode1 / Line: Line / Band: 2400-2483.5 MHz / BW: 2 / CH00



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.2860	27.74	10.04	37.78	60.64	-22.86	QP	
2	0.3100	13.63	10.03	23.66	49.97	-26.31	AVG	
3	0.4220	29.18	10.05	39.23	57.41	-18.18	QP	
4	0.4300	17.00	10.05	27.05	47.25	-20.20	AVG	
5 *	0.5380	30.73	10.07	40.80	56.00	-15.20	QP	
6	0.5380	18.86	10.07	28.93	46.00	-17.07	AVG	
7	0.7900	15.20	10.11	25.31	46.00	-20.69	AVG	
8	0.8059	25.93	10.11	36.04	56.00	-19.96	QP	
9	11.0979	28.79	10.70	39.49	60.00	-20.51	QP	
10	11.0979	18.71	10.70	29.41	50.00	-20.59	AVG	
11	21.2500	23.23	10.60	33.83	60.00	-26.17	QP	
12	22.3980	10.17	10.62	20.79	50.00	-29.21	AVG	

Mode1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 2 / CH00



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1500	30.57	10.19	40.76	66.00	-25.24	QP	
2		0.1500	12.78	10.19	22.97	56.00	-33.03	AVG	
3		0.4380	16.24	10.21	26.45	47.10	-20.65	AVG	
4		0.4500	28.58	10.21	38.79	56.88	-18.09	QP	
5	*	0.5260	30.34	10.24	40.58	56.00	-15.42	QP	
6		0.5260	17.21	10.24	27.45	46.00	-18.55	AVG	
7		0.7780	27.26	10.14	37.40	56.00	-18.60	QP	
8		0.8059	14.33	10.14	24.47	46.00	-21.53	AVG	
9		1.1820	22.36	10.14	32.50	56.00	-23.50	QP	
10		1.6180	9.66	10.22	19.88	46.00	-26.12	AVG	
11		10.8620	19.87	10.74	30.61	50.00	-19.39	AVG	
12		11.7180	31.40	10.71	42.11	60.00	-17.89	QP	

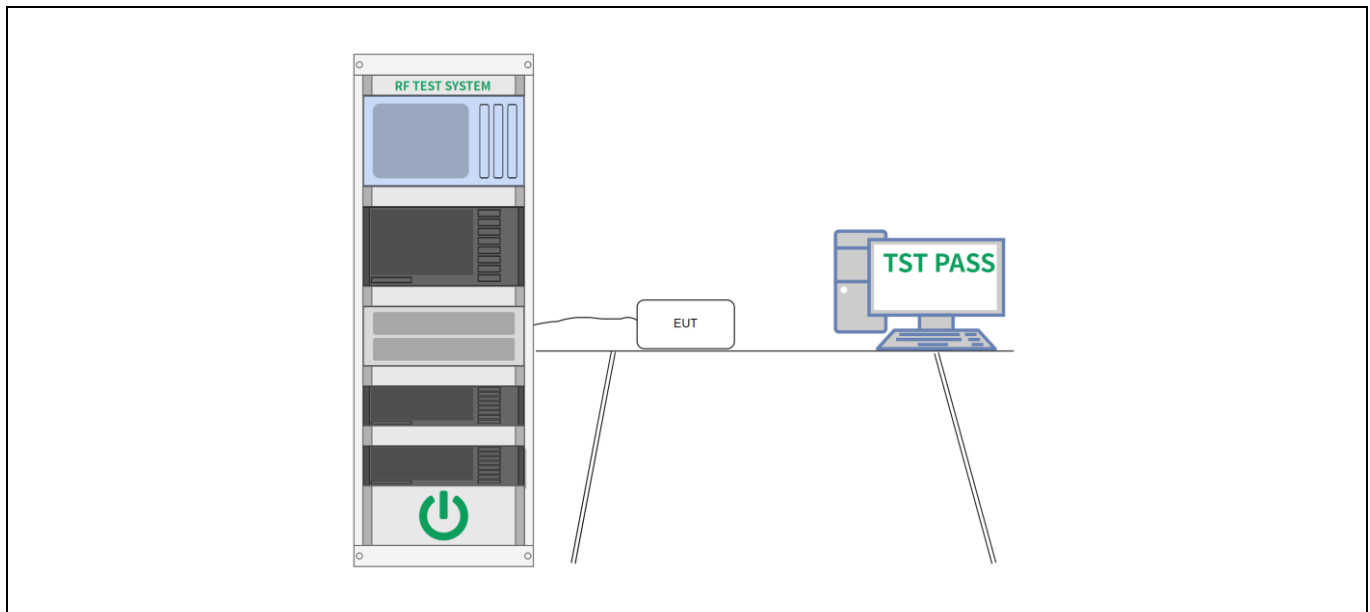
6.2 Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	a) Set RBW = 100 kHz. b) Set the VBW \geq [3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
Test mode:	Mode1				

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.

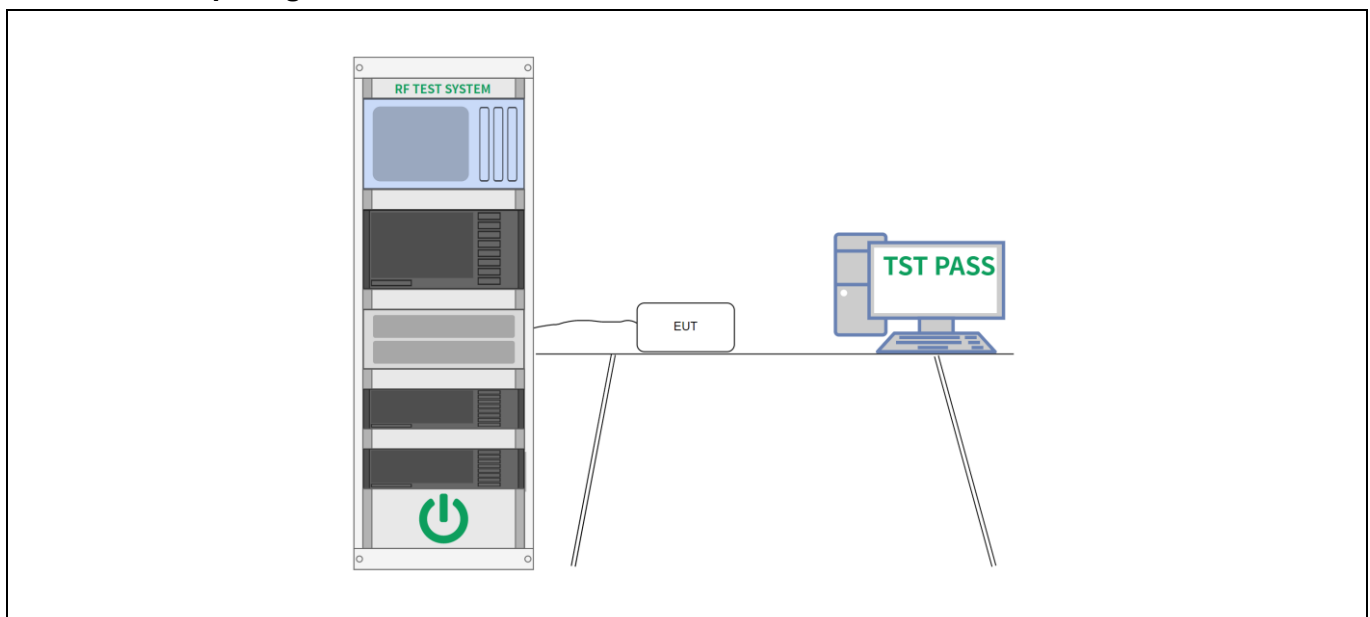
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
Test mode:	Mode1				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

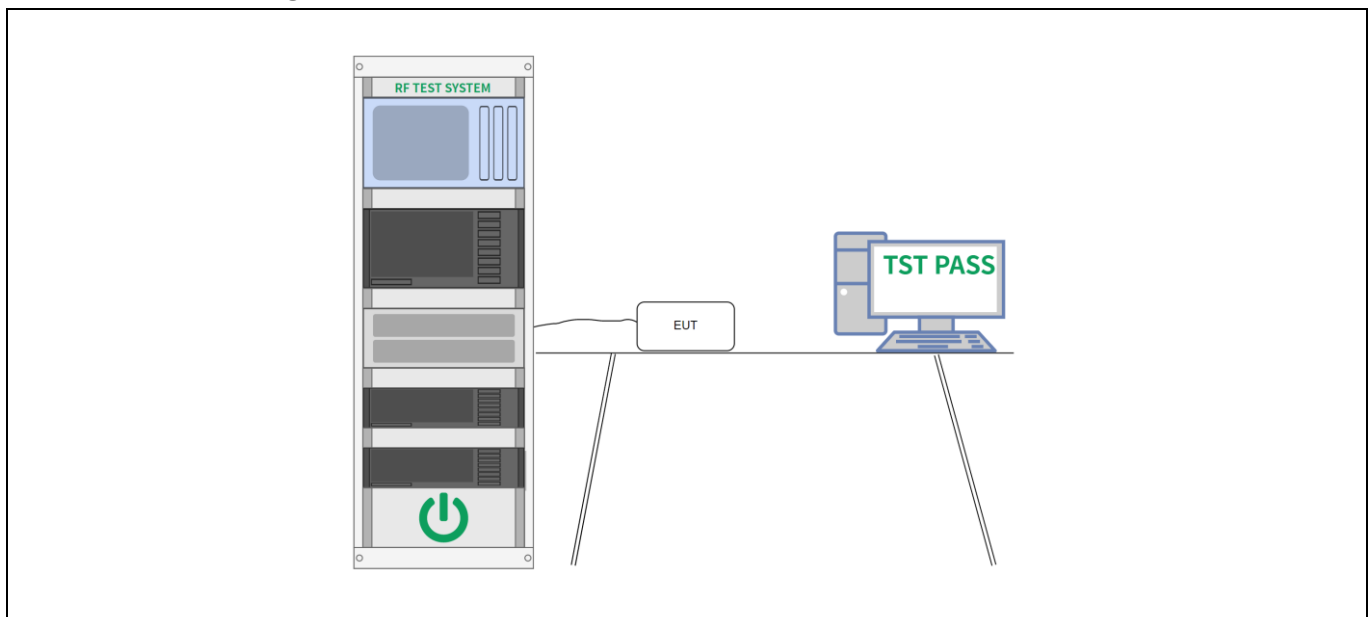
6.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission

6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
Test mode:	Mode1				

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.

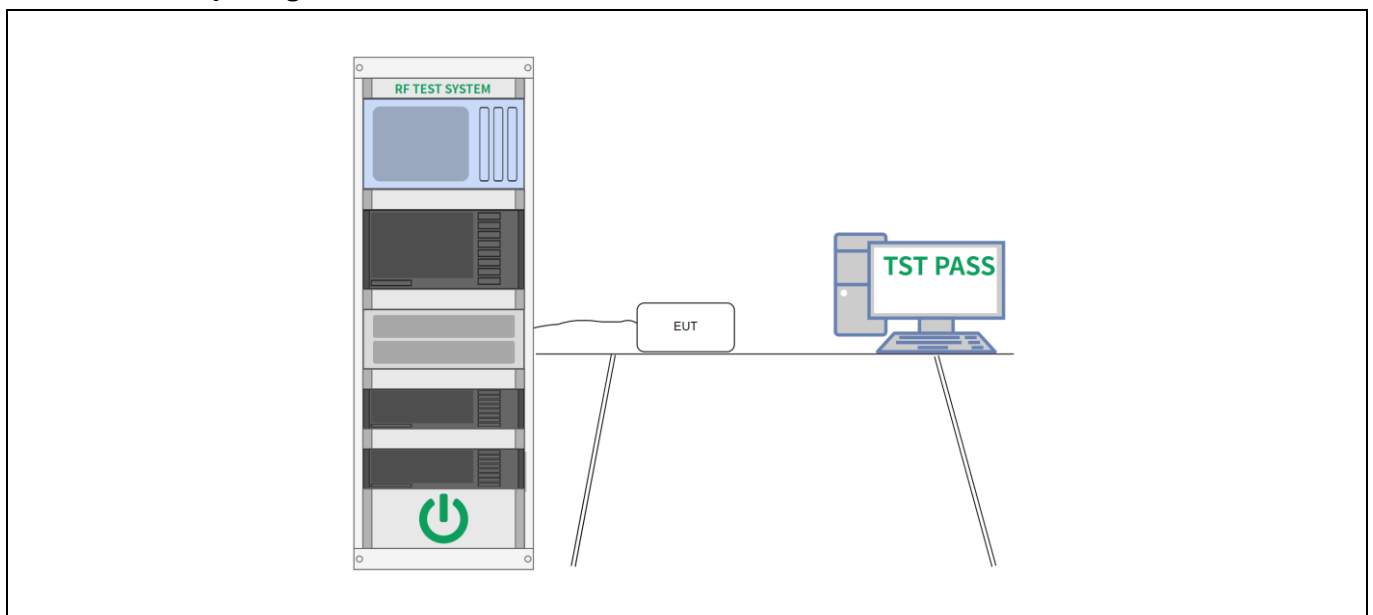
6.5 Emissions in frequency bands

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
Test mode:	Mode1				

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

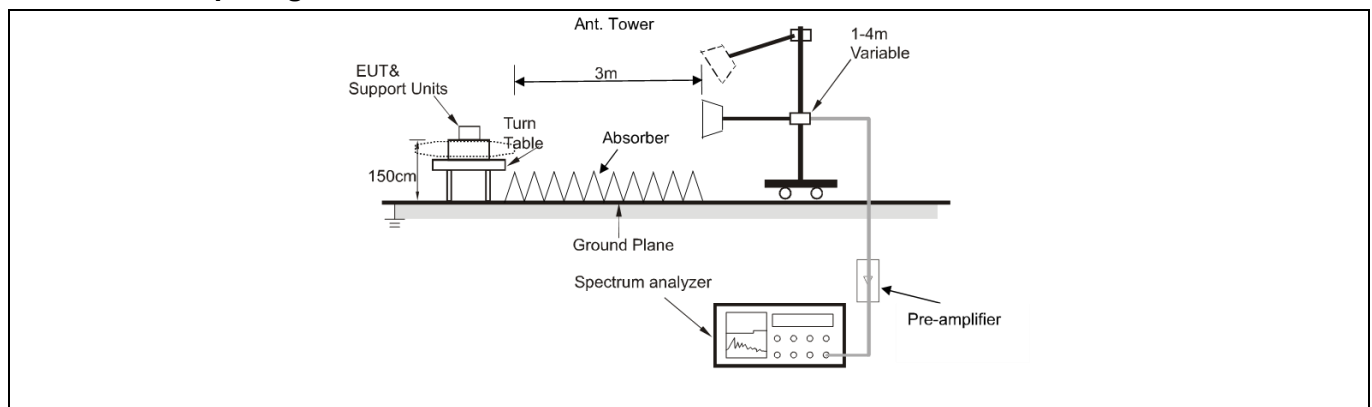
Please Refer to Appendix for Details.

6.6 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), 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.		
Test Method:	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2013 section 6.10.5.2		

6.6.1 E.U.T. Operation:

Operating Environment:			
Temperature:	19.7 °C	Humidity:	71.9 %
		Atmospheric Pressure:	101 kPa
Test mode:	Mode1		
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.			

6.6.2 Test Setup Diagram:


6.6.3 Test Data:

Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 2 / CH00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2310.000	46.69	-2.66	44.03	74.00	-29.97	peak
2		2310.000	37.08	-2.66	34.42	54.00	-19.58	AVG
3		2390.000	46.89	-2.03	44.86	74.00	-29.14	peak
4	*	2390.000	37.60	-2.03	35.57	54.00	-18.43	AVG

Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 2 / CH00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2310.000	46.54	-2.66	43.88	74.00	-30.12	peak
2		2310.000	37.11	-2.66	34.45	54.00	-19.55	AVG
3		2390.000	46.84	-2.03	44.81	74.00	-29.19	peak
4	*	2390.000	37.52	-2.03	35.49	54.00	-18.51	AVG

Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 2 / CH39

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2483.500	47.22	-1.91	45.31	74.00	-28.69	peak
2		2483.500	37.44	-1.91	35.53	54.00	-18.47	AVG
3		2500.000	46.58	-1.80	44.78	74.00	-29.22	peak
4	*	2500.000	37.84	-1.80	36.04	54.00	-17.96	AVG

Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 2 / CH39

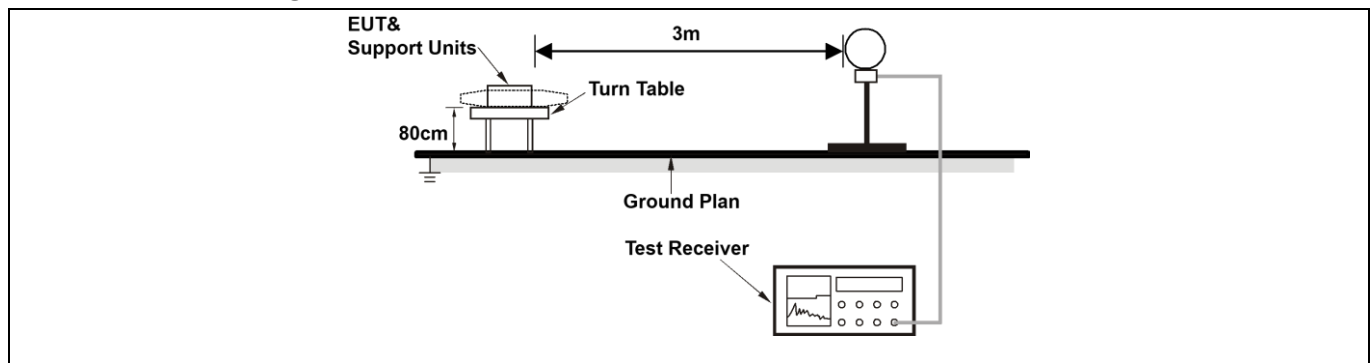
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		2483.500	47.86	-1.91	45.95	74.00	-28.05	peak
2		2483.500	37.80	-1.91	35.89	54.00	-18.11	AVG
3		2500.000	46.92	-1.80	45.12	74.00	-28.88	peak
4	*	2500.000	38.06	-1.80	36.26	54.00	-17.74	AVG

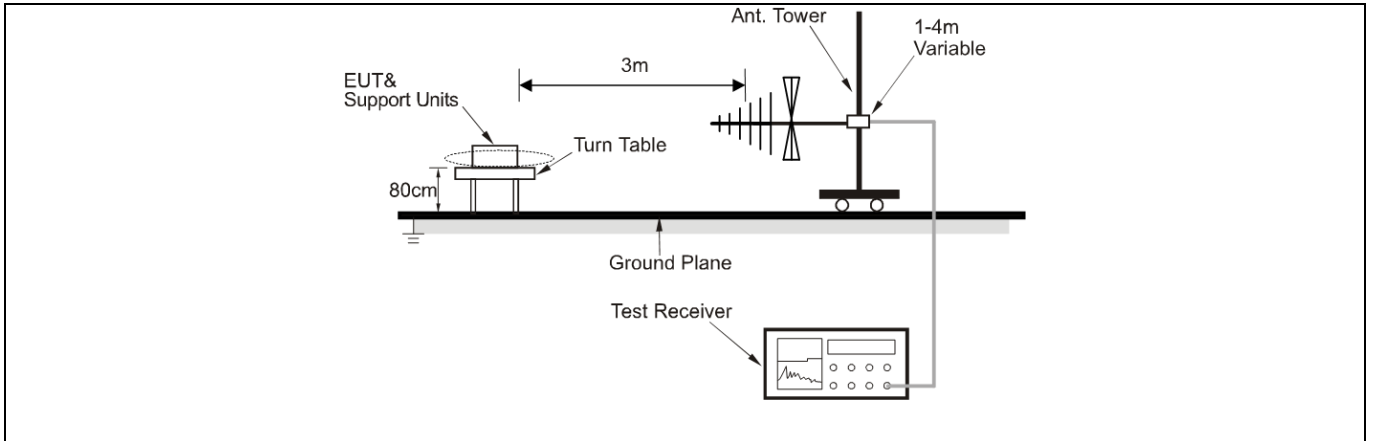
6.7 Radiated emissions (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), 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.		
Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2013 section 6.6.4		

6.7.1 E.U.T. Operation:

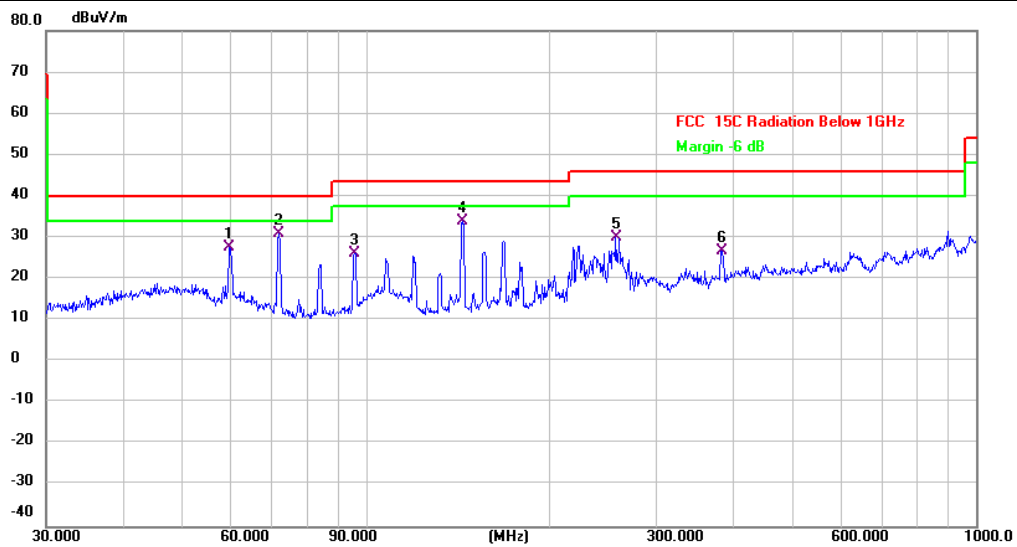
Operating Environment:			
Temperature:	28.9 °C	Humidity:	53.3 %
		Atmospheric Pressure:	100 kPa
Test mode:	Mode1		
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported. There were no emissions found below 30MHz within 20dB of the limit.			

6.7.2 Test Setup Diagram:




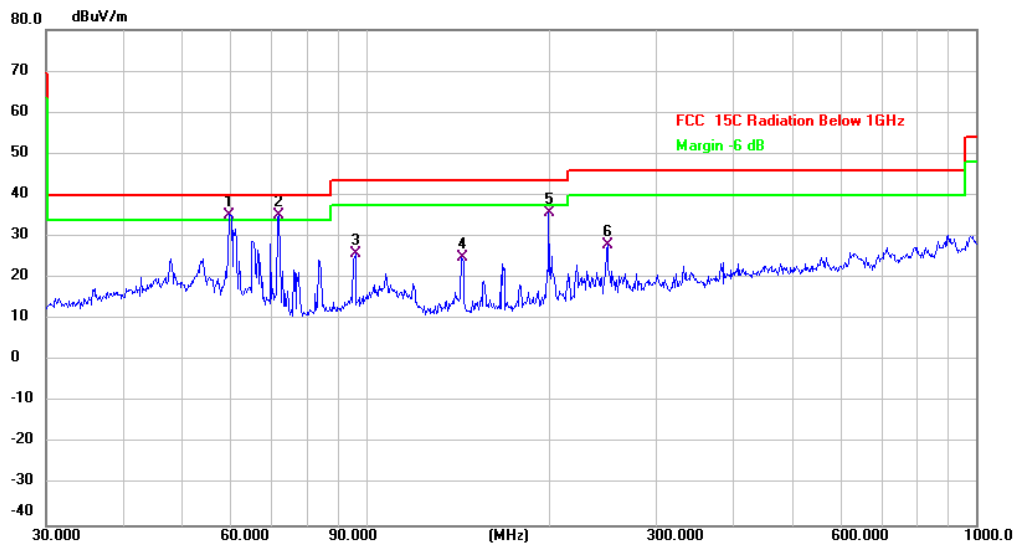
6.7.3 Test Data:
Baseus Brilliance Series Detachable Magnetic Keyboard Case:

Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 2 / CH39



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		59.8588	37.39	-9.79	27.60	40.00	-12.40	QP	
2	*	72.0843	42.17	-11.27	30.90	40.00	-9.10	QP	
3		95.7622	36.75	-10.60	26.15	43.50	-17.35	QP	
4		143.8295	44.38	-10.56	33.82	43.50	-9.68	QP	
5		257.4222	37.62	-7.47	30.15	46.00	-15.85	QP	
6		383.9318	32.32	-5.47	26.85	46.00	-19.15	QP	

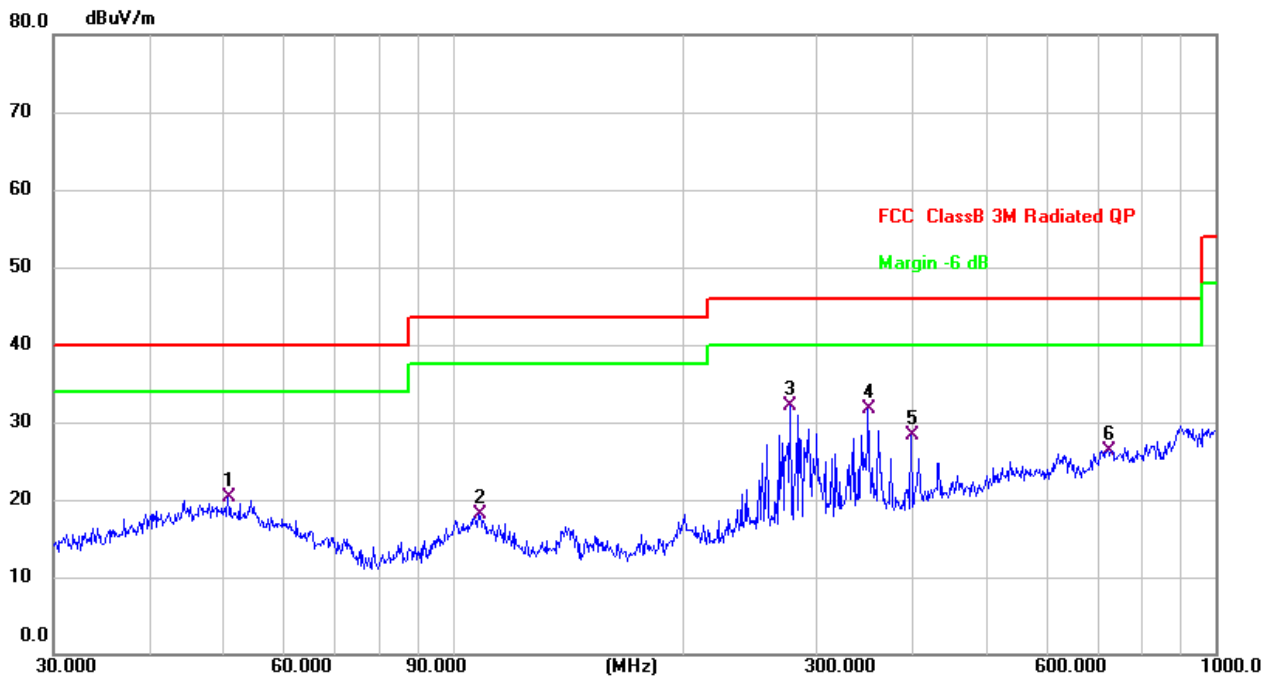
Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 2 / CH39



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	59.8588	45.09	-9.79	35.30	40.00	-4.70	QP	
2	!	72.0843	46.36	-11.27	35.09	40.00	-4.91	QP	
3		96.0986	36.52	-10.55	25.97	43.50	-17.53	QP	
4		143.3261	34.95	-10.07	24.88	43.50	-18.62	QP	
5		199.9856	41.79	-6.09	35.70	43.50	-7.80	QP	
6		249.4250	35.72	-7.74	27.98	46.00	-18.02	QP	

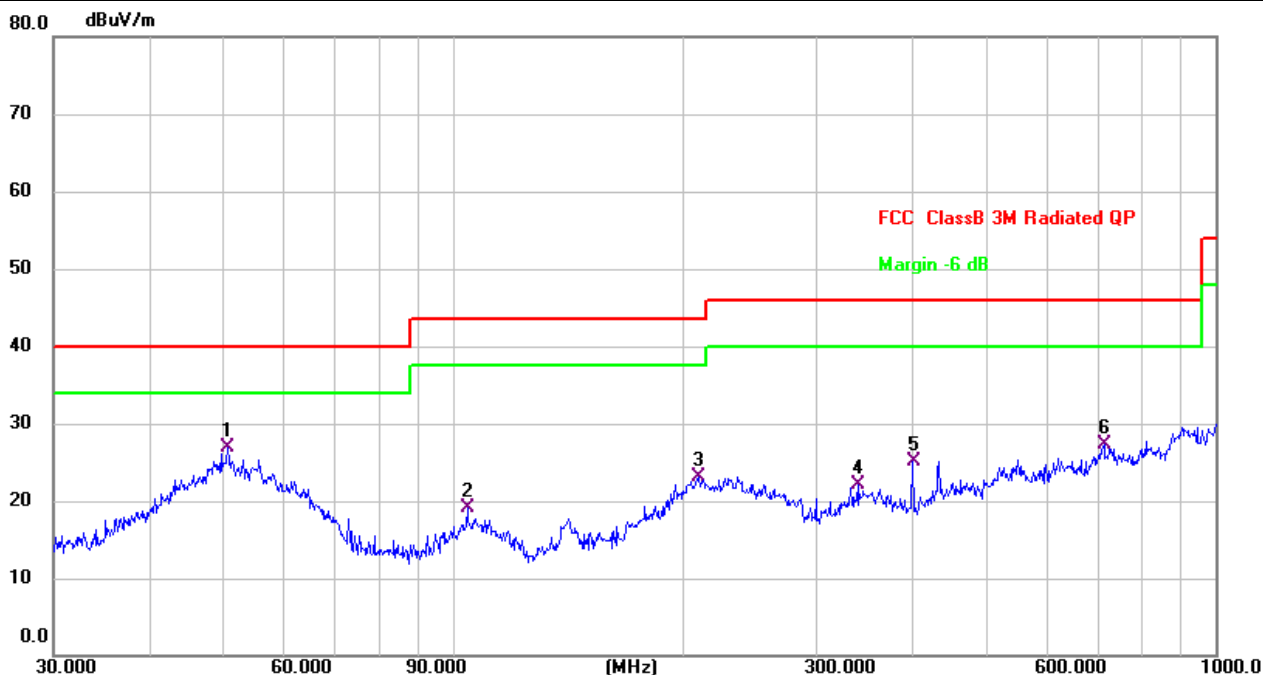
Baseus Brilliance Series Detachable Magnetic Keyboard (10.9 inches):

Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 2 / CH39



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		50.7637	27.06	-6.69	20.37	40.00	-19.63	QP
2		108.2667	25.65	-7.49	18.16	43.50	-25.34	QP
3	*	277.0935	38.18	-6.12	32.06	46.00	-13.94	QP
4		350.4768	35.94	-4.22	31.72	46.00	-14.28	QP
5		399.0302	32.81	-4.51	28.30	46.00	-17.70	QP
6		721.7259	25.69	0.69	26.38	46.00	-19.62	QP

Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 2 / CH39



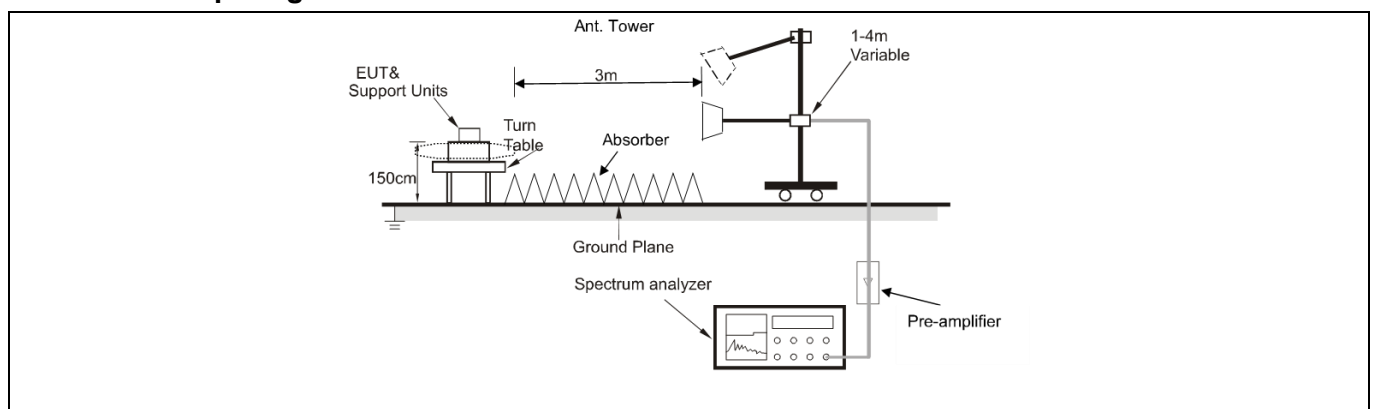
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	50.7635	33.62	-6.69	26.93	40.00	-13.07	QP
2		104.5361	26.74	-7.69	19.05	43.50	-24.45	QP
3		210.0481	31.16	-8.11	23.05	43.50	-20.45	QP
4		339.5888	26.46	-4.32	22.14	46.00	-23.86	QP
5		400.4319	29.66	-4.56	25.10	46.00	-20.90	QP
6		714.1734	26.85	0.40	27.25	46.00	-18.75	QP

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.		
Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2013 section 6.6.4		

6.8.1 E.U.T. Operation:

Operating Environment:			
Temperature:	19.5 °C	Humidity:	63.4 %
		Atmospheric Pressure:	101 kPa
Test mode:	Mode1		
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 / Band: 2400-2483.5 MHz / BW: 2 / CH00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4804.000	44.20	2.74	46.94	74.00	-27.06	peak
2		4804.000	40.41	2.74	43.15	54.00	-10.85	AVG
3		7206.000	40.38	9.34	49.72	74.00	-24.28	peak
4		7206.000	35.84	9.34	45.18	54.00	-8.82	AVG
5		9608.000	41.36	10.49	51.85	74.00	-22.15	peak
6	*	9608.000	36.76	10.49	47.25	54.00	-6.75	AVG

Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 2 / CH00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4804.000	40.17	2.74	42.91	74.00	-31.09	peak
2		4804.000	34.37	2.74	37.11	54.00	-16.89	AVG
3		7206.000	40.14	9.34	49.48	74.00	-24.52	peak
4		7206.000	34.25	9.34	43.59	54.00	-10.41	AVG
5		9608.000	41.42	10.49	51.91	74.00	-22.09	peak
6	*	9608.000	36.36	10.49	46.85	54.00	-7.15	AVG

Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 2 / CH19

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4880.000	42.89	3.05	45.94	74.00	-28.06	peak
2		4880.000	40.06	3.05	43.11	54.00	-10.89	AVG
3		7320.000	40.54	9.02	49.56	74.00	-24.44	peak
4		7320.000	36.56	9.02	45.58	54.00	-8.42	AVG
5		9760.000	40.34	12.01	52.35	74.00	-21.65	peak
6	*	9760.000	35.48	12.01	47.49	54.00	-6.51	AVG

Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 2 / CH19

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4880.000	40.20	3.05	43.25	74.00	-30.75	peak
2		4880.000	34.80	3.05	37.85	54.00	-16.15	AVG
3		7320.000	40.23	9.02	49.25	74.00	-24.75	peak
4		7320.000	35.56	9.02	44.58	54.00	-9.42	AVG
5		9760.000	40.76	12.01	52.77	74.00	-21.23	peak
6	*	9760.000	35.51	12.01	47.52	54.00	-6.48	AVG

Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 2 / CH39

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4960.000	44.19	3.52	47.71	74.00	-26.29	peak
2		4960.000	40.84	3.52	44.36	54.00	-9.64	AVG
3		7440.000	39.75	9.16	48.91	74.00	-25.09	peak
4		7440.000	36.03	9.16	45.19	54.00	-8.81	AVG
5		9920.000	41.20	11.74	52.94	74.00	-21.06	peak
6	*	9920.000	37.00	11.74	48.74	54.00	-5.26	AVG

Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 2 / CH39

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		4960.000	41.65	3.52	45.17	74.00	-28.83	peak
2		4960.000	38.84	3.52	42.36	54.00	-11.64	AVG
3		7440.000	41.93	9.16	51.09	74.00	-22.91	peak
4		7440.000	39.80	9.16	48.96	54.00	-5.04	AVG
5		9920.000	40.60	11.74	52.34	74.00	-21.66	peak
6	*	9920.000	38.00	11.74	49.74	54.00	-4.26	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	0.664	0.5	PASS
		2440	0.656	0.5	PASS
		2480	0.660	0.5	PASS

Test Graphs

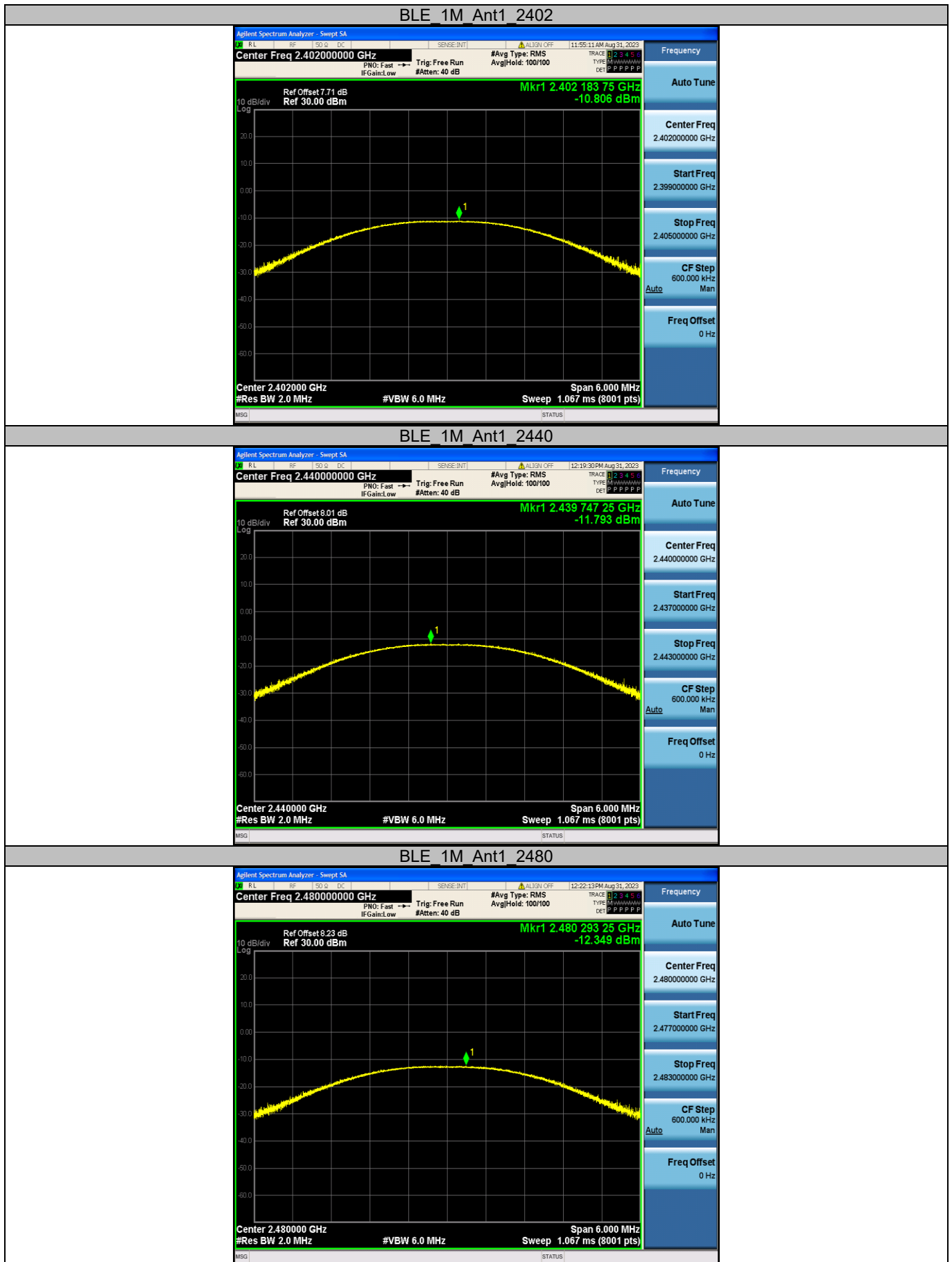


Appendix B: Maximum conducted output power

Test Result-Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-10.81	≤30	PASS
		2440	-11.79	≤30	PASS
		2480	-12.35	≤30	PASS

Test Graphs

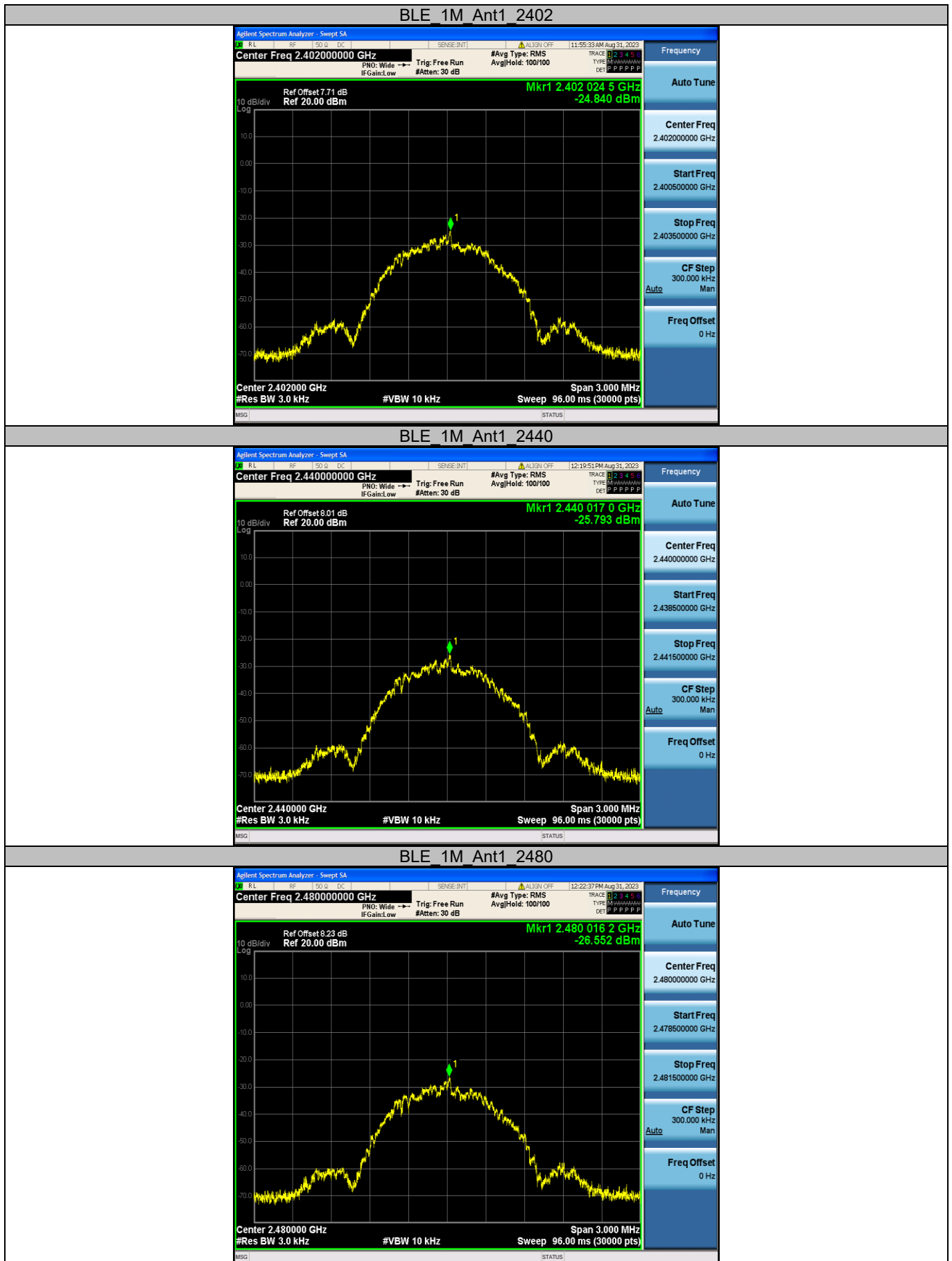


Appendix C: Maximum power spectral density

Test Result

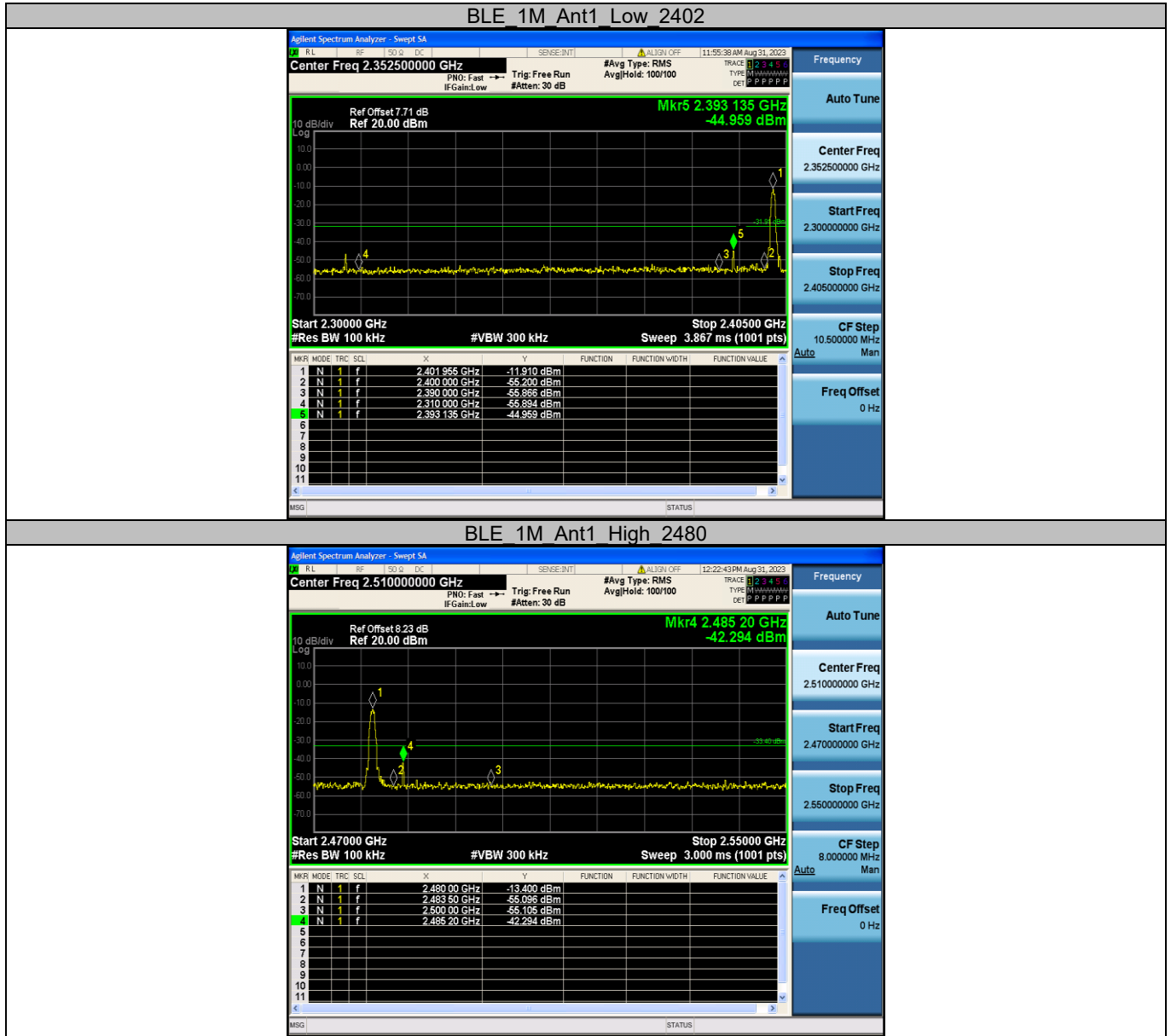
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-24.84	≤8.00	PASS
		2440	-25.79	≤8.00	PASS
		2480	-26.55	≤8.00	PASS

Test Graphs



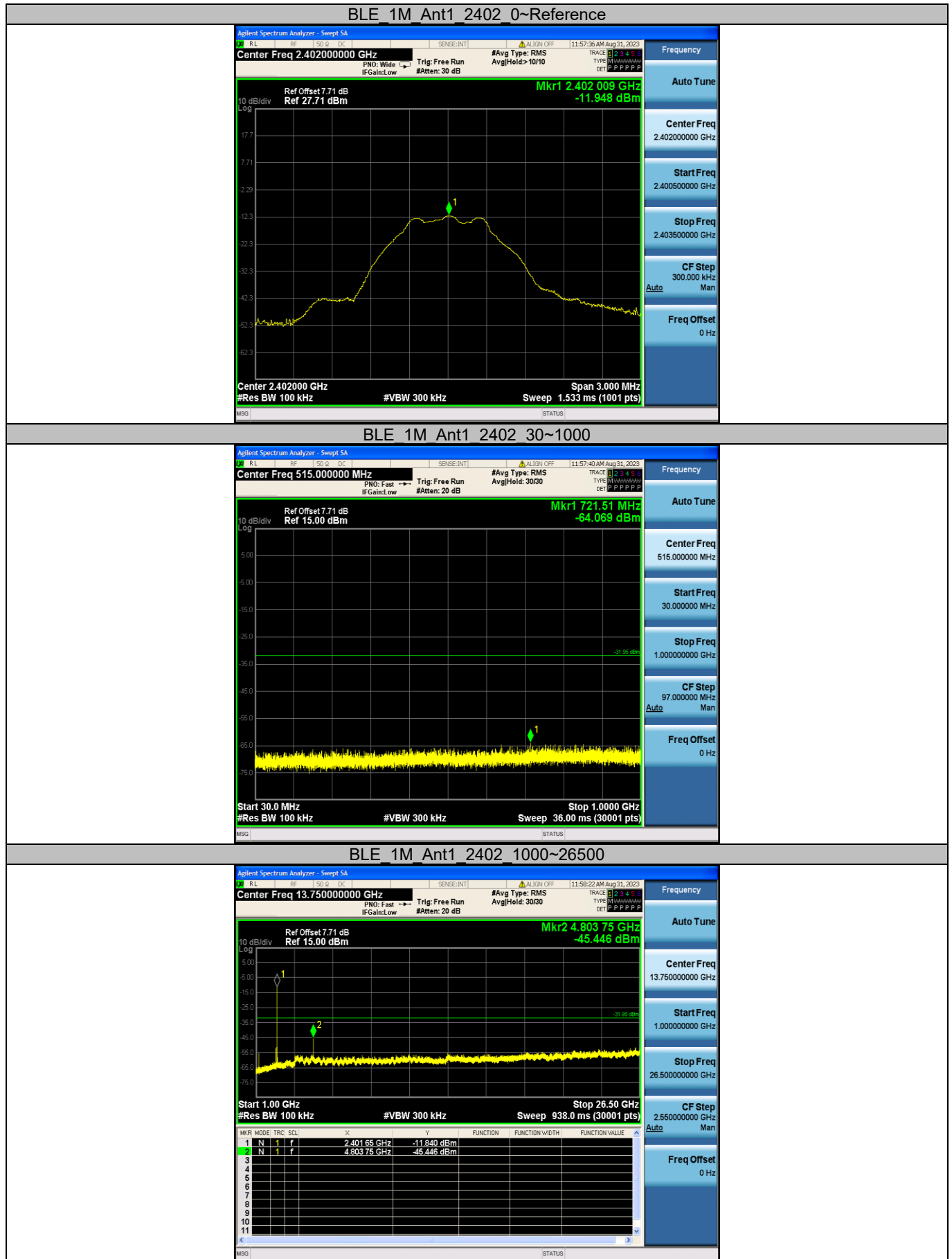
Appendix D: Band edge measurements

Test Graphs

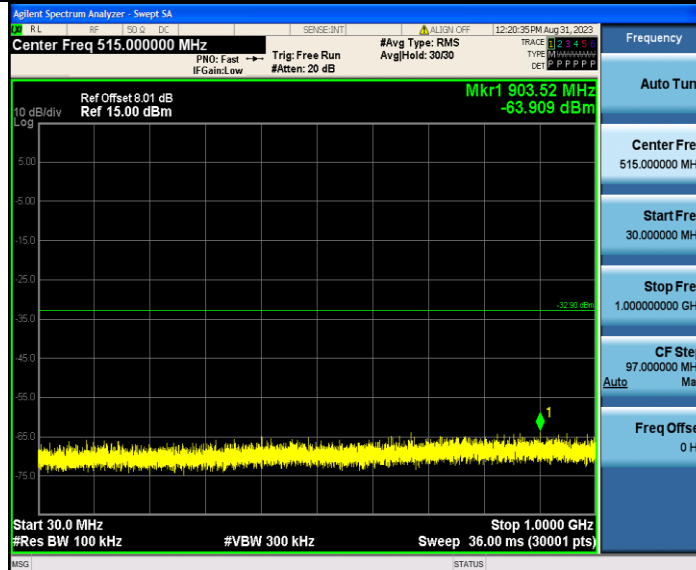
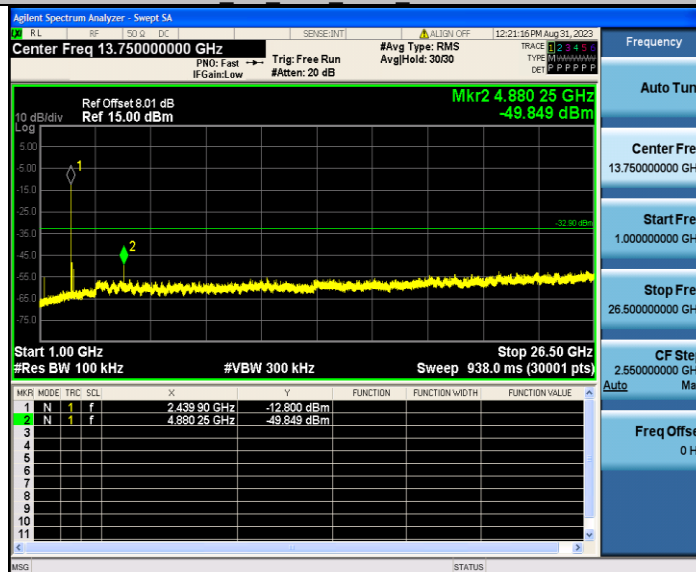


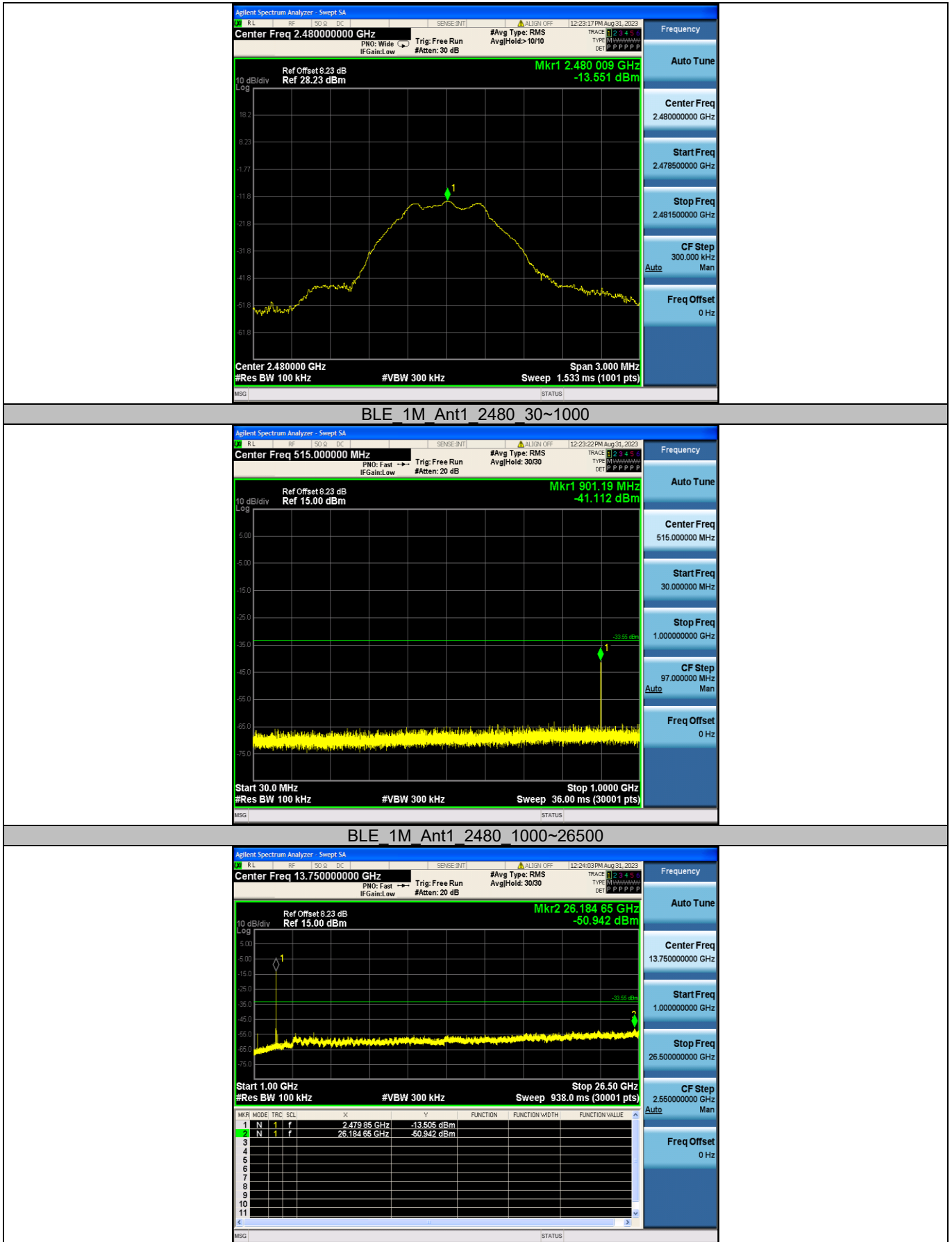
Appendix E: Conducted Spurious Emission

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

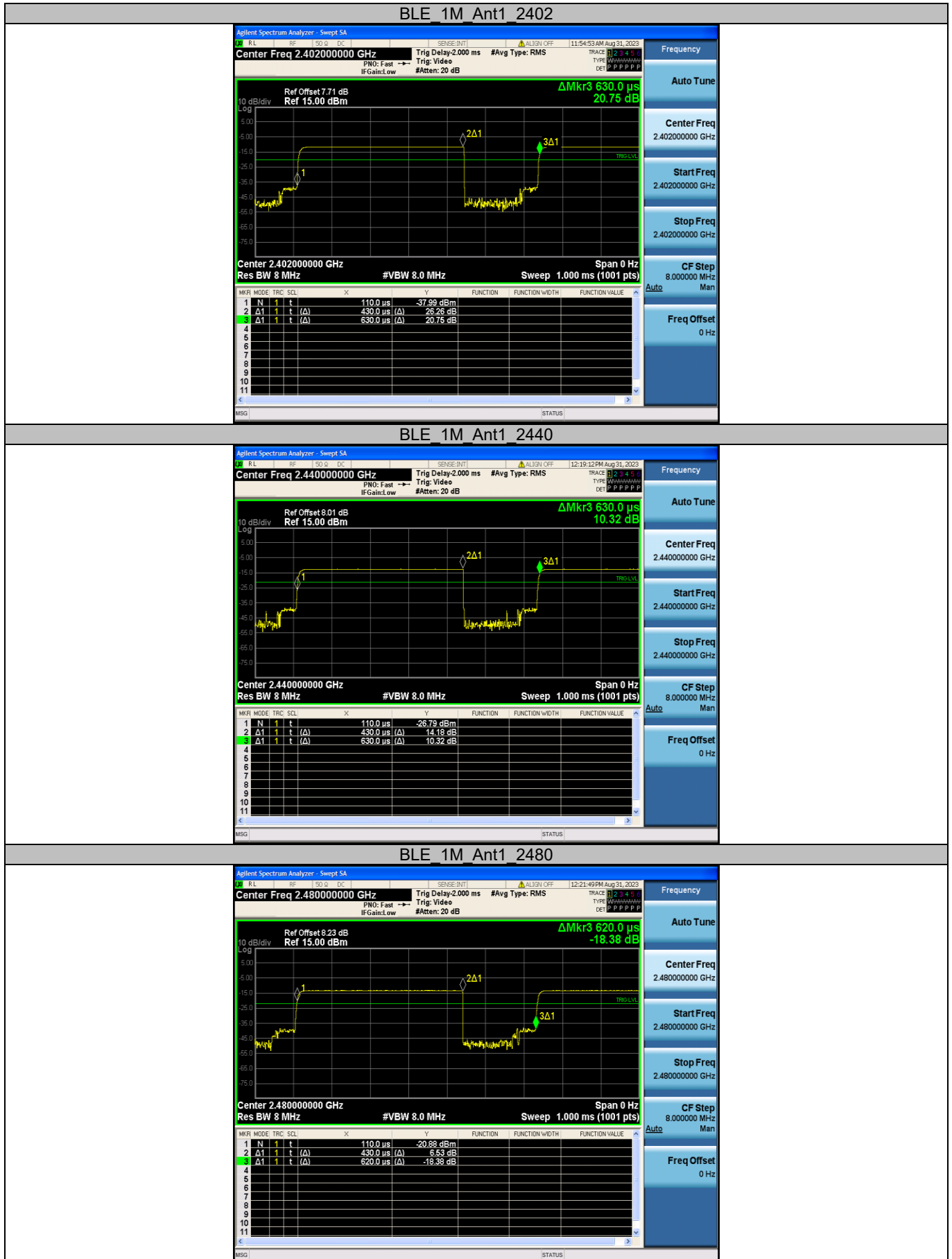


Appendix F: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.43	0.63	68.25	1.66
		2440	0.43	0.63	68.25	1.66
		2480	0.43	0.62	69.35	1.59

Test Graphs



----End of Report----