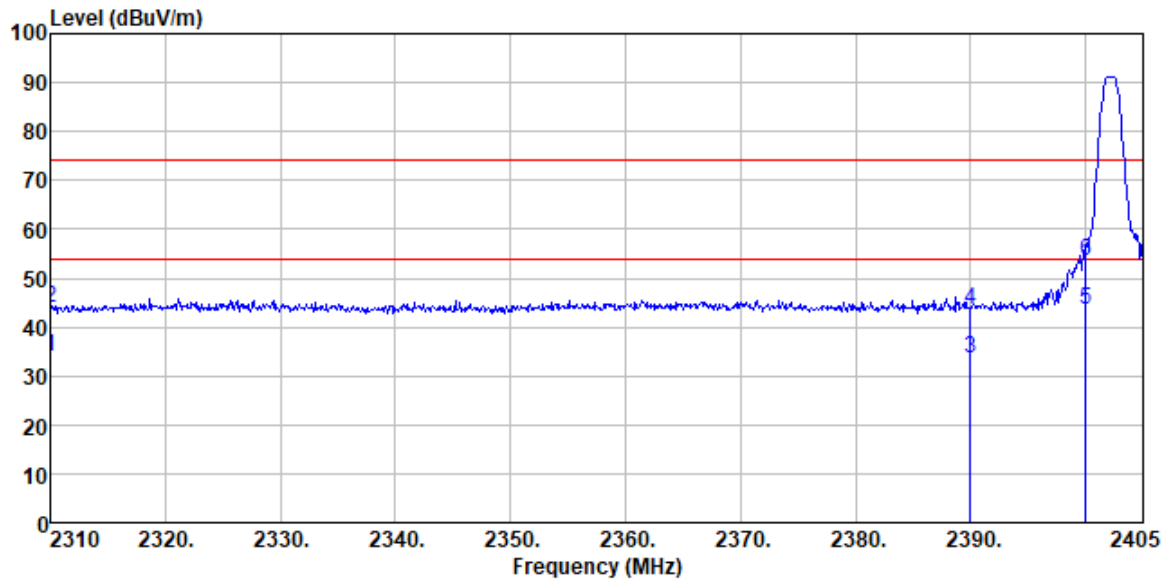


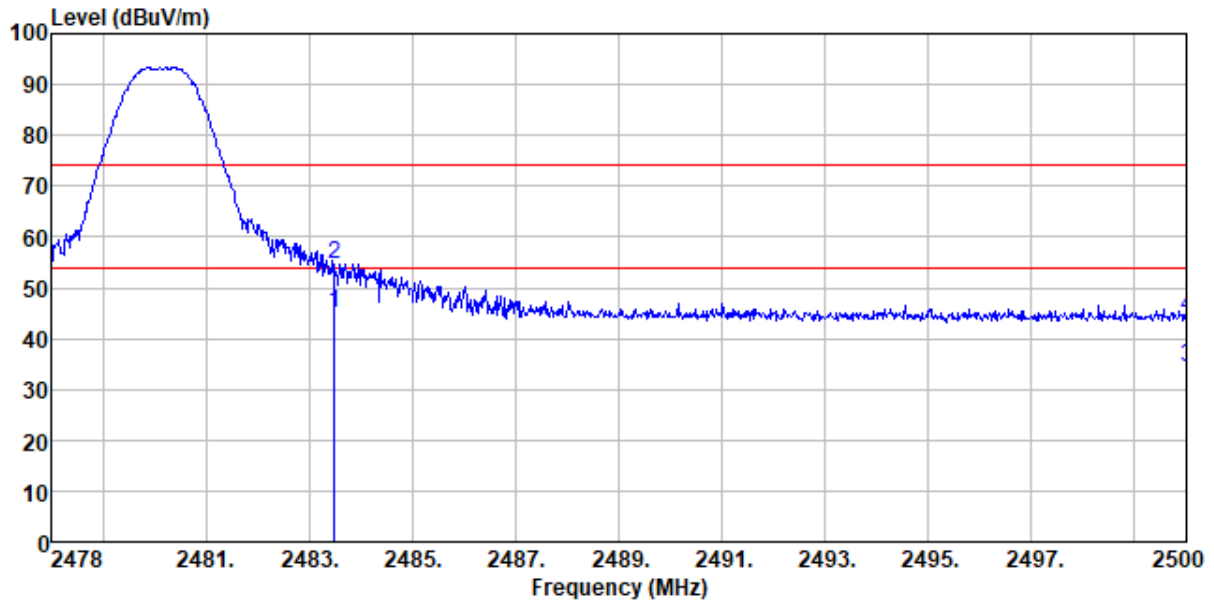
Vertical



	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2310.000	34.31	27.14	30.43	2.81	33.83	54.00	-20.17	Average
2	2310.000	44.42	27.14	30.43	2.81	43.94	74.00	-30.06	Peak
3	2390.000	33.62	27.37	30.24	2.91	33.66	54.00	-20.34	Average
4	2390.000	43.67	27.37	30.24	2.91	43.71	74.00	-30.29	Peak
5	2400.000	43.32	27.41	30.26	2.91	43.38	54.00	-10.62	Average
6	2400.000	53.45	27.41	30.26	2.91	53.51	74.00	-20.49	Peak

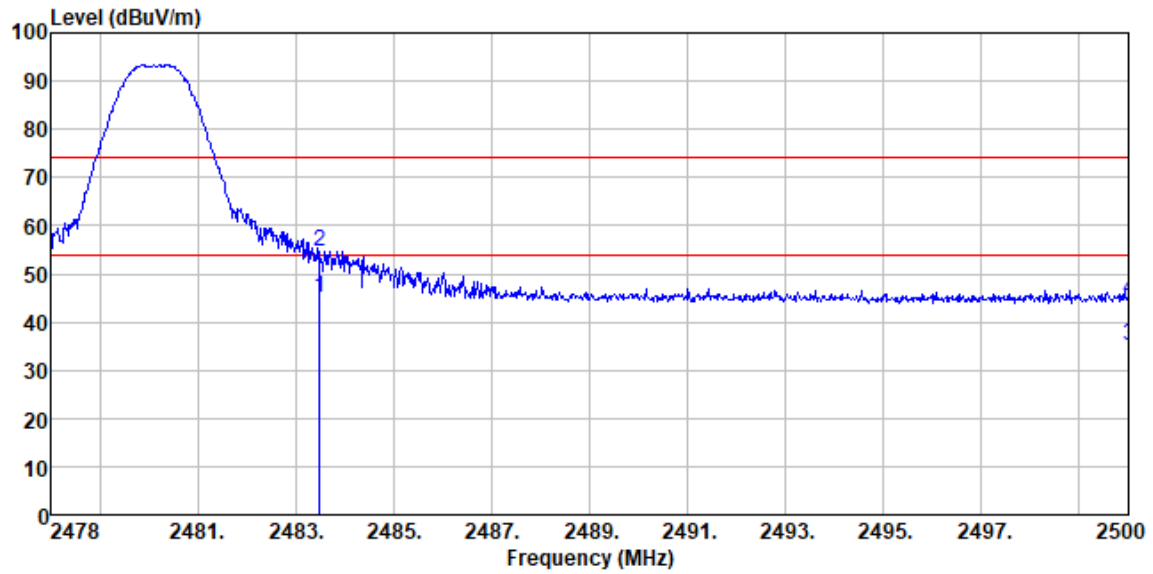
Test channel: Highest

Vertical



	Freq	ReadAntenna	Preamp	Cable		Limit	Over	
	Level	Factor	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	44.36	27.66	30.12	2.99	44.89	54.00	-9.11 Average
2	2483.500	54.14	27.66	30.12	2.99	54.67	74.00	-19.33 Peak
3	2500.000	33.64	27.70	30.13	3.01	34.22	54.00	-19.78 Average
4	2500.000	43.87	27.70	30.13	3.01	44.45	74.00	-29.55 Peak

Horizontal



	Freq	ReadAntenna	Preamp	Cable	Limit	Over	
	Level	Factor	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	2483.500	44.32	27.66	30.12	2.99	44.85	54.00 -9.15 Average
2	2483.500	54.14	27.66	30.12	2.99	54.67	74.00 -19.33 Peak
3	2500.000	34.65	27.70	30.13	3.01	35.23	54.00 -18.77 Average
4	2500.000	44.03	27.70	30.13	3.01	44.61	74.00 -29.39 Peak

Test Result: Pass

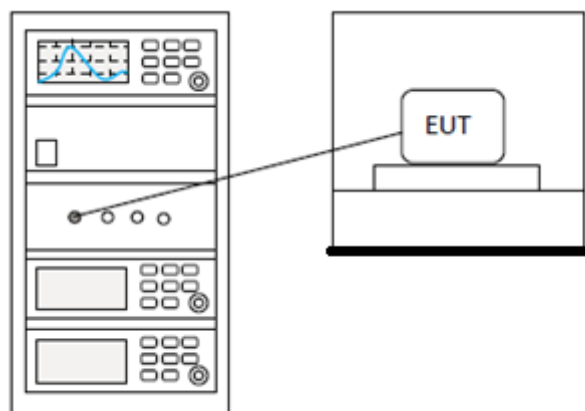
CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

LIMITS

Limit:	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. 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)).
---------------	--

BLOCK DIAGRAM OF TEST SETUP



TEST DATA**Pass: Please Refer To Appendix: Appendix1 For Details**

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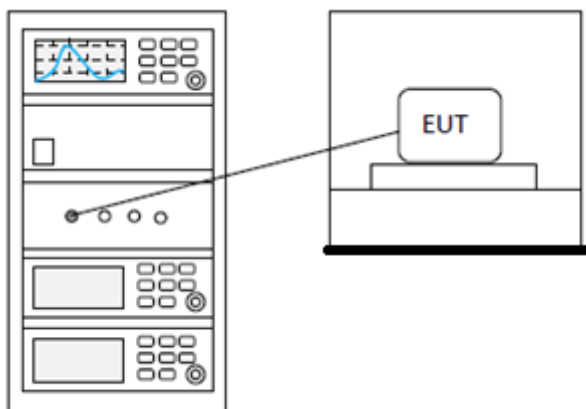
POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

LIMITS

Limit:	$\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission
---------------	--

BLOCK DIAGRAM OF TEST SETUP



TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

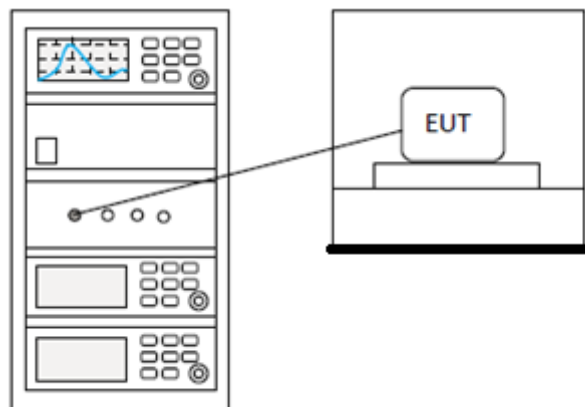
CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq \text{hopping channels} < 50$
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

BLOCK DIAGRAM OF TEST SETUP



TEST DATA**Pass: Please Refer To Appendix: Appendix1 For Details**

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10 APPENDIX

Appendix1

10.1 APPENDIX: DTS BANDWIDTH

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.700	2401.804	2402.504	≥ 0.5	PASS
		2442	0.716	2441.792	2442.508	≥ 0.5	PASS
		2480	0.720	2479.796	2480.516	≥ 0.5	PASS

Test Graphs



10.2 APPENDIX: OCCUPIED CHANNEL BANDWIDTH**Test Result**

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0446	2401.642	2402.687	---	PASS
		2442	1.0476	2441.643	2442.690	---	PASS
		2480	1.0504	2479.644	2480.694	---	PASS

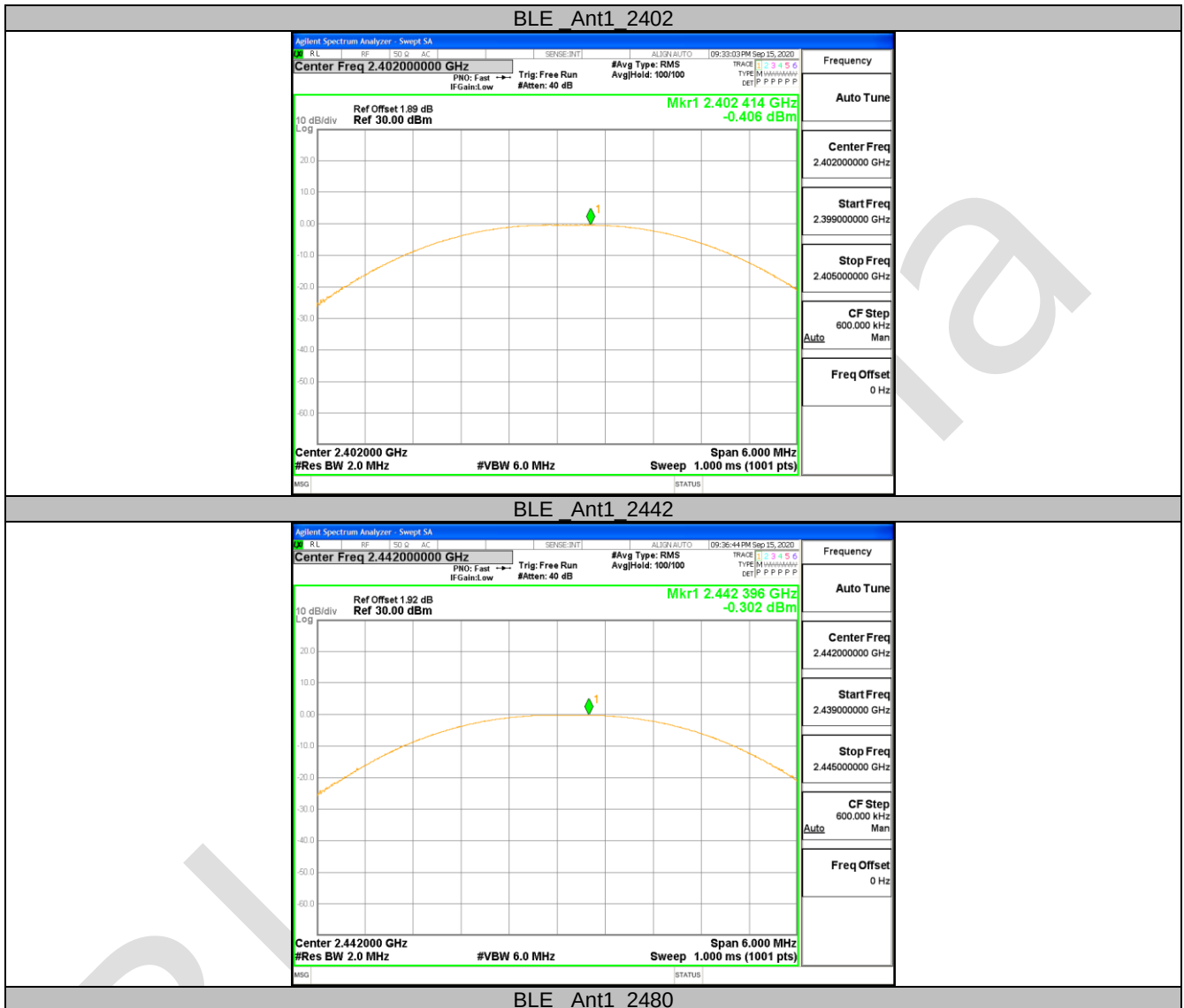
Test Graphs

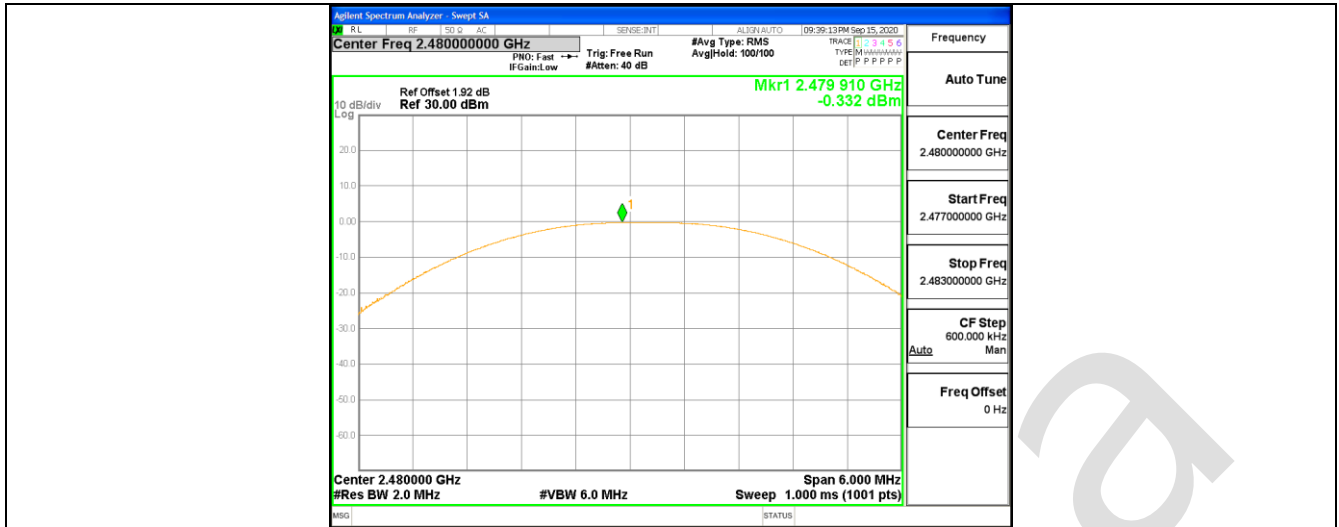


10.3 APPENDIX: MAXIMUM CONDUCTED OUTPUT POWER**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	-0.41	<=30	PASS
		2442	-0.3	<=30	PASS
		2480	-0.33	<=30	PASS

Test Graphs

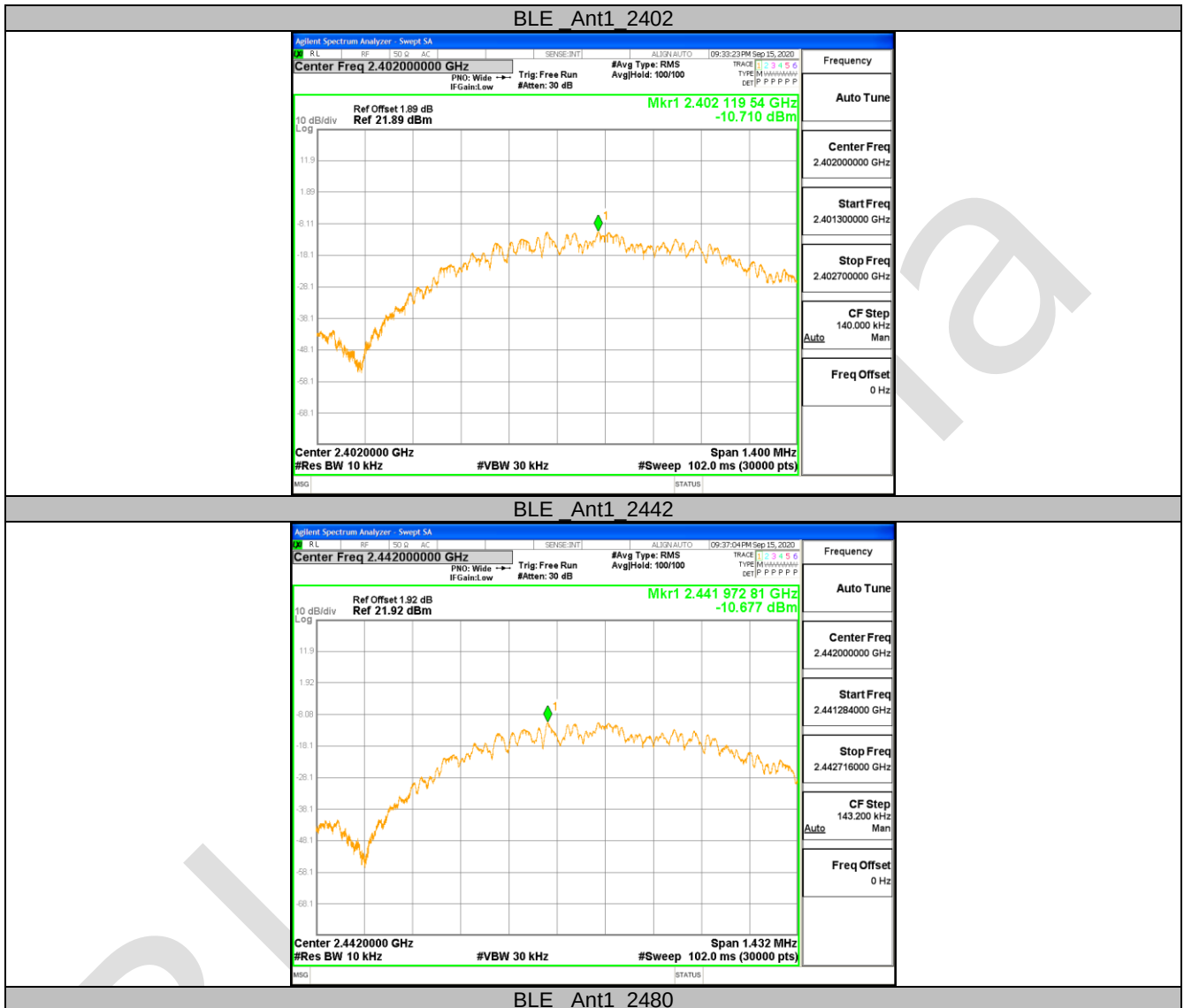


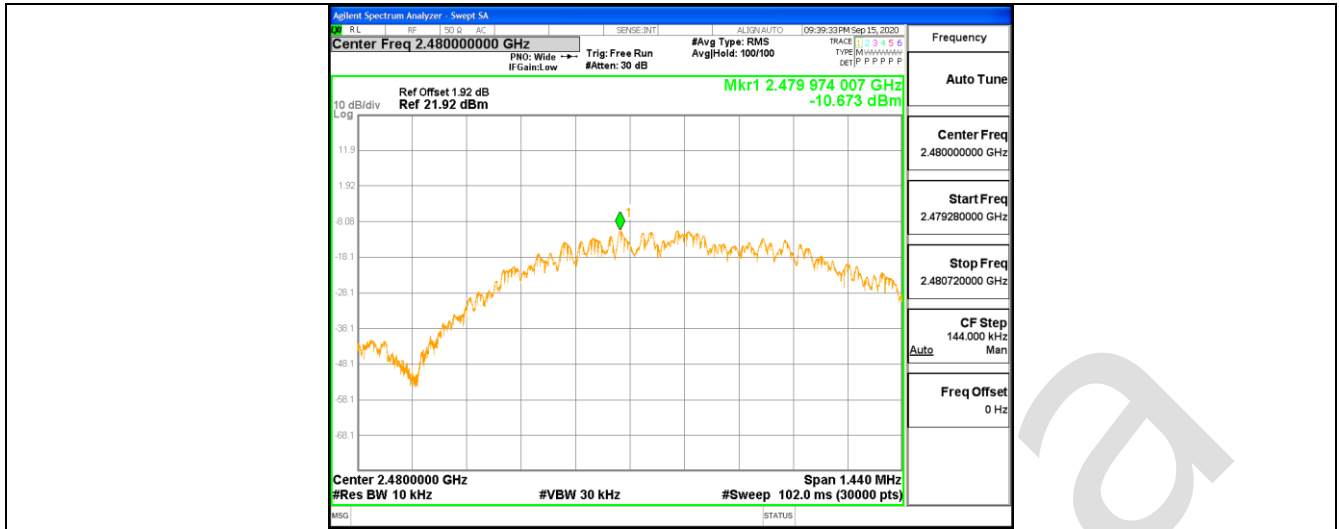


10.4 APPENDIX: MAXIMUM POWER SPECTRAL DENSITY**Test Result**

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-10.71	<=8	PASS
		2442	-10.68	<=8	PASS
		2480	-10.67	<=8	PASS

Test Graphs





10.5 APPENDIX: BAND EDGE MEASUREMENTS**Test Result**

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-0.64	-53.9	≤ -20.64	PASS
		High	2480	-0.54	-52.78	≤ -20.54	PASS

Test Graphs

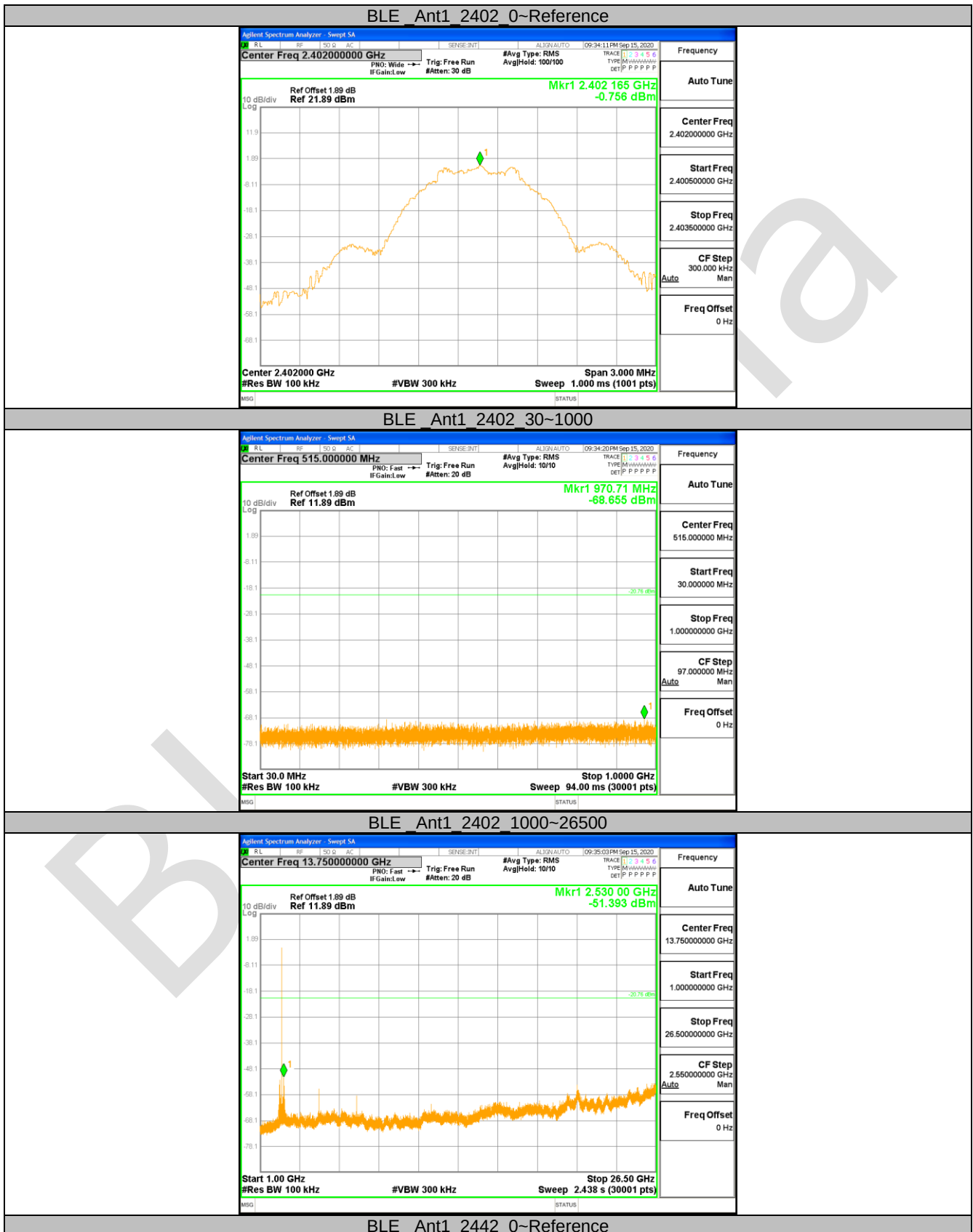


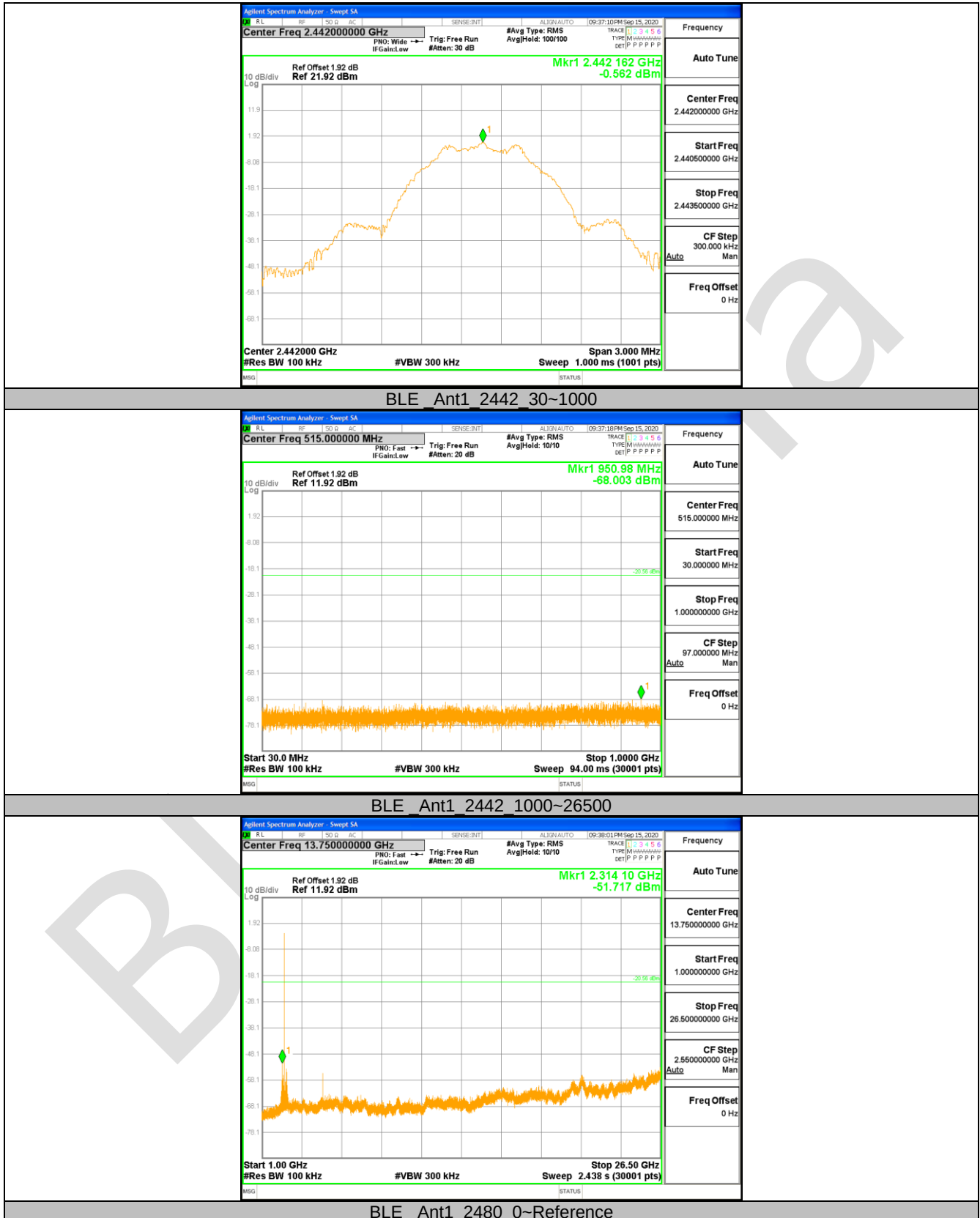
10.6 APPENDIX: CONDUCTED SPURIOUS EMISSION

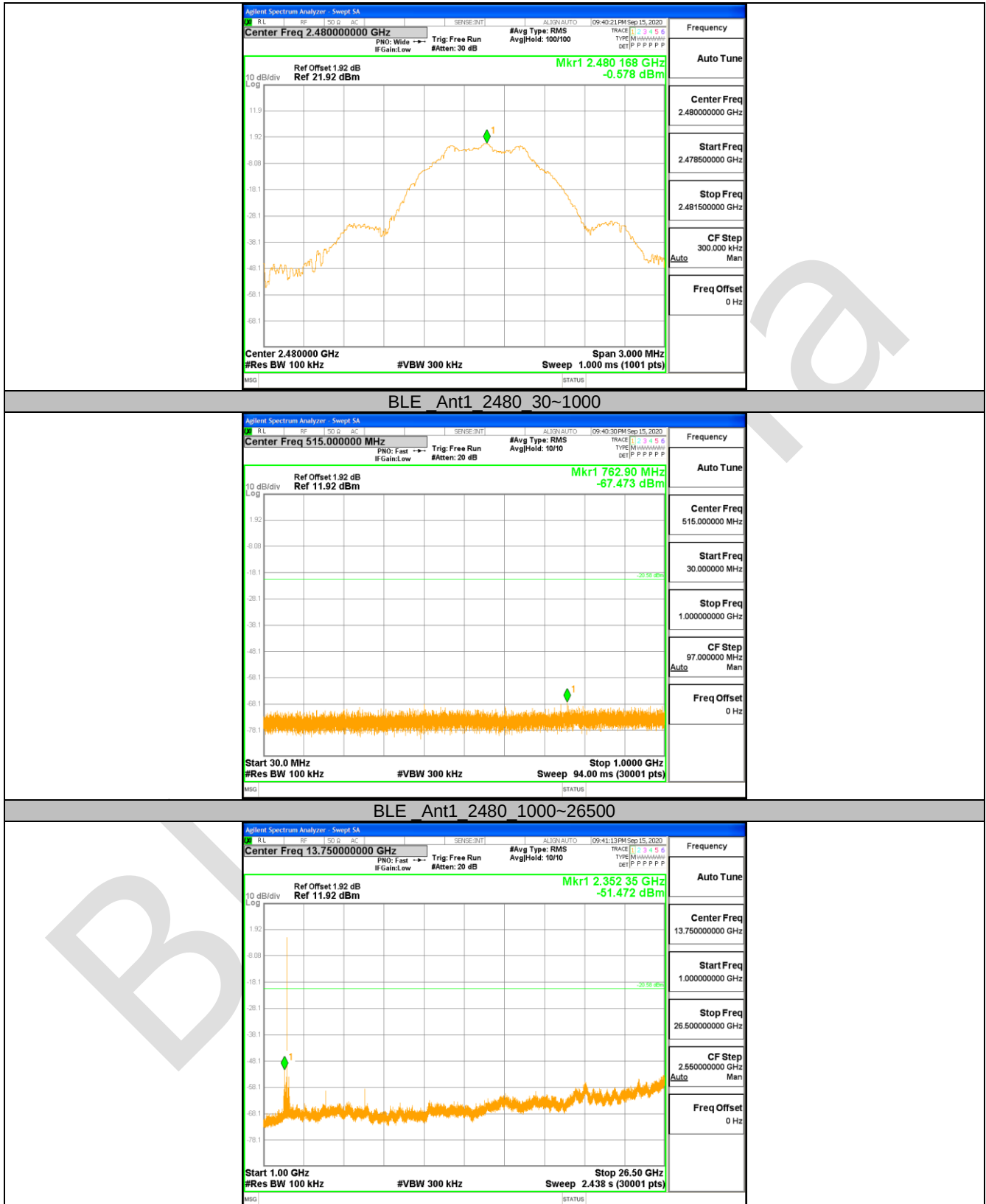
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-0.76	-0.76	---	PASS
			30~1000	30~1000	-68.655	<=-20.756	PASS
			1000~26500	1000~26500	-51.393	<=-20.756	PASS
		2442	Reference	-0.56	-0.56	---	PASS
			30~1000	30~1000	-68.003	<=-20.562	PASS
			1000~26500	1000~26500	-51.717	<=-20.562	PASS
		2480	Reference	-0.58	-0.58	---	PASS
			30~1000	30~1000	-67.473	<=-20.578	PASS
			1000~26500	1000~26500	-51.472	<=-20.578	PASS

Test Graphs





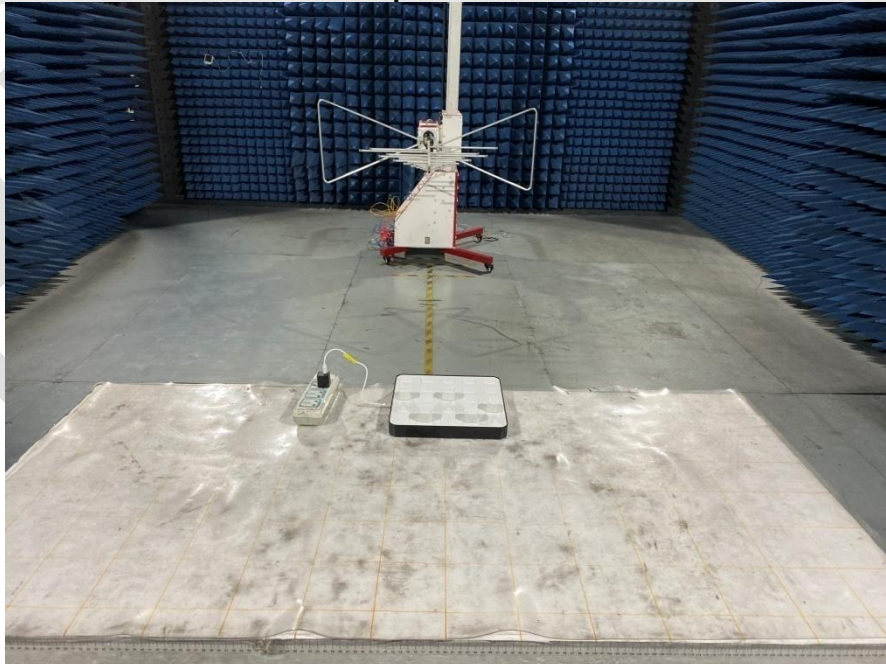


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Conducted Emissions at AC Power Line (150kHz-30MHz)

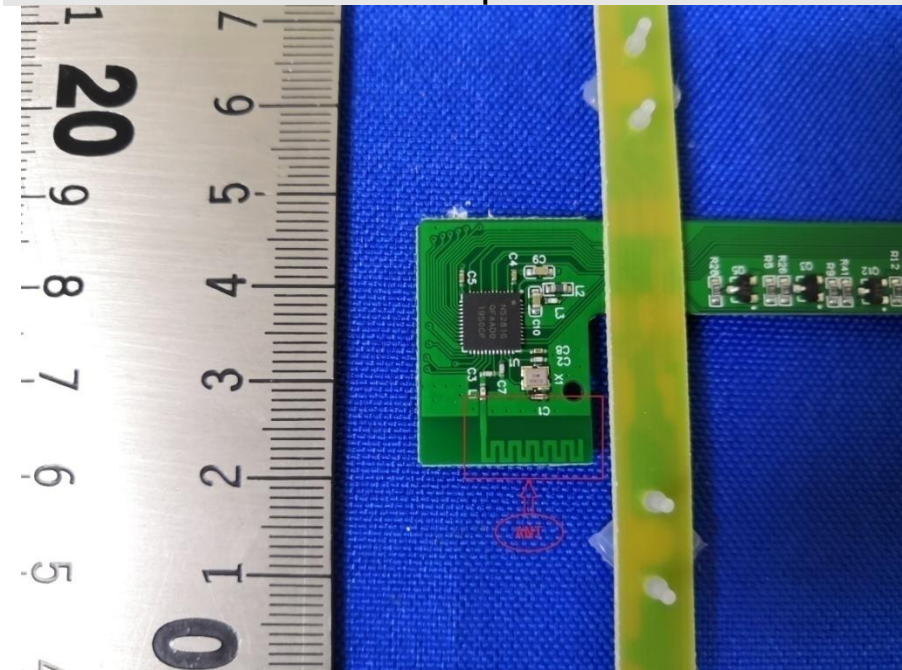


Radiated Spurious Emissions

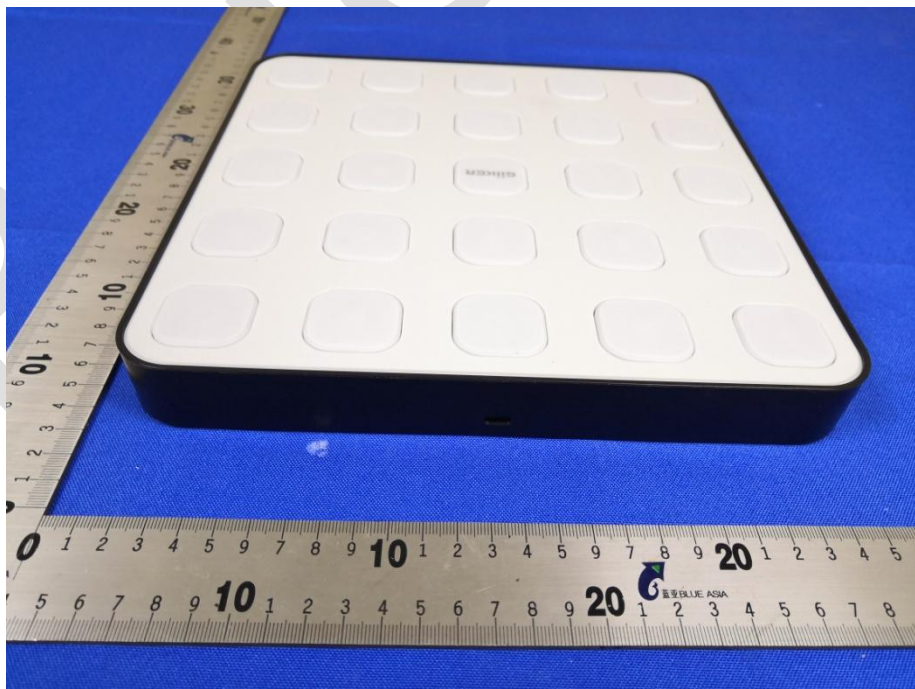
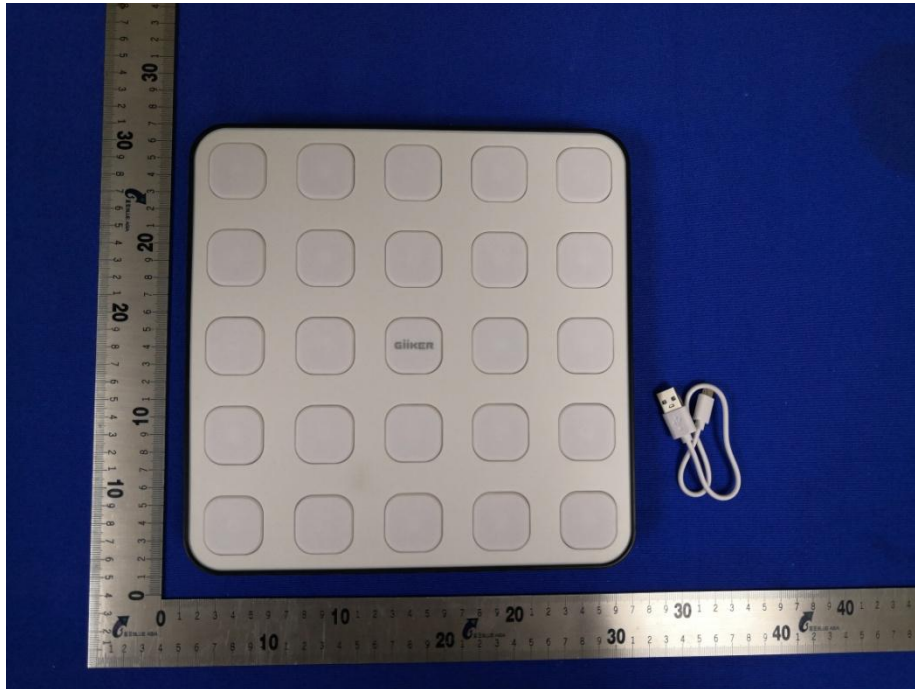


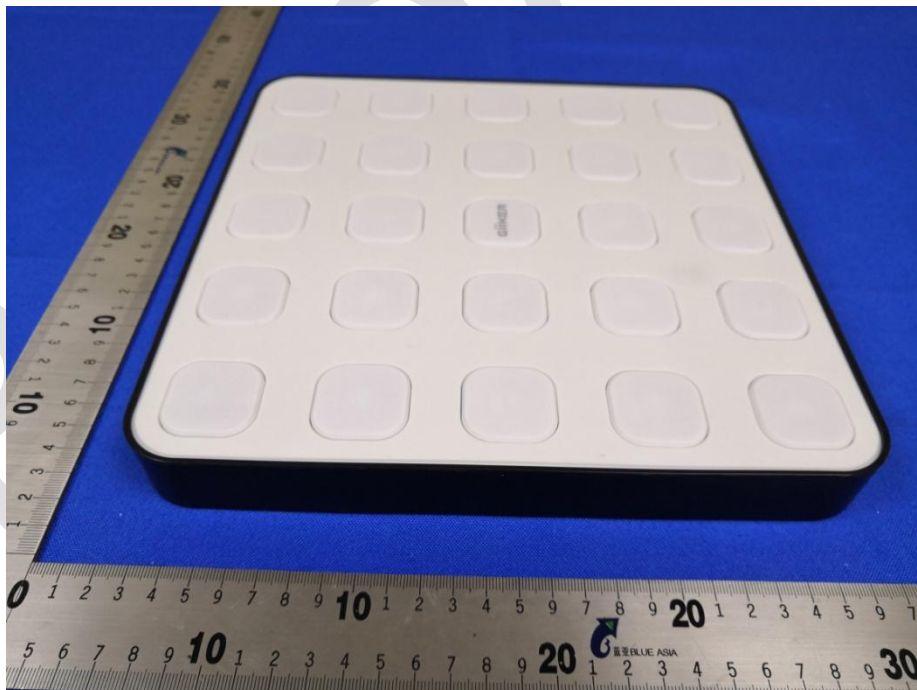
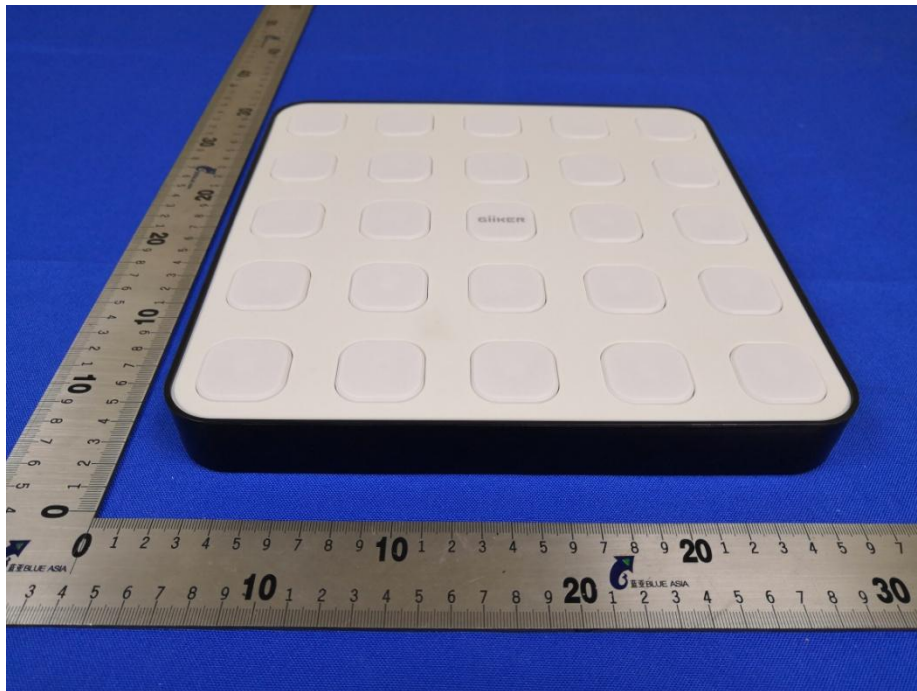


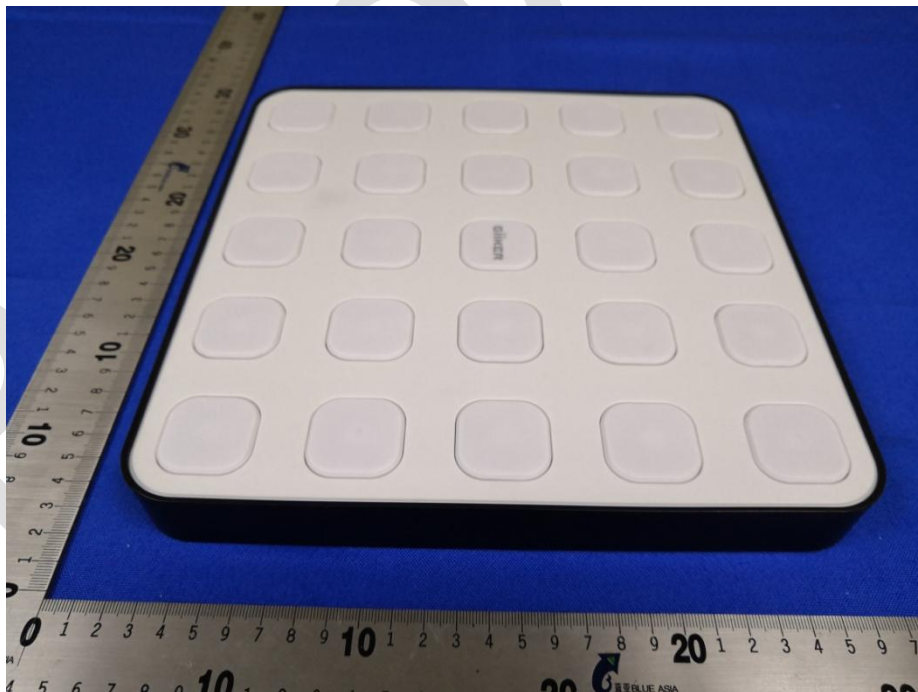
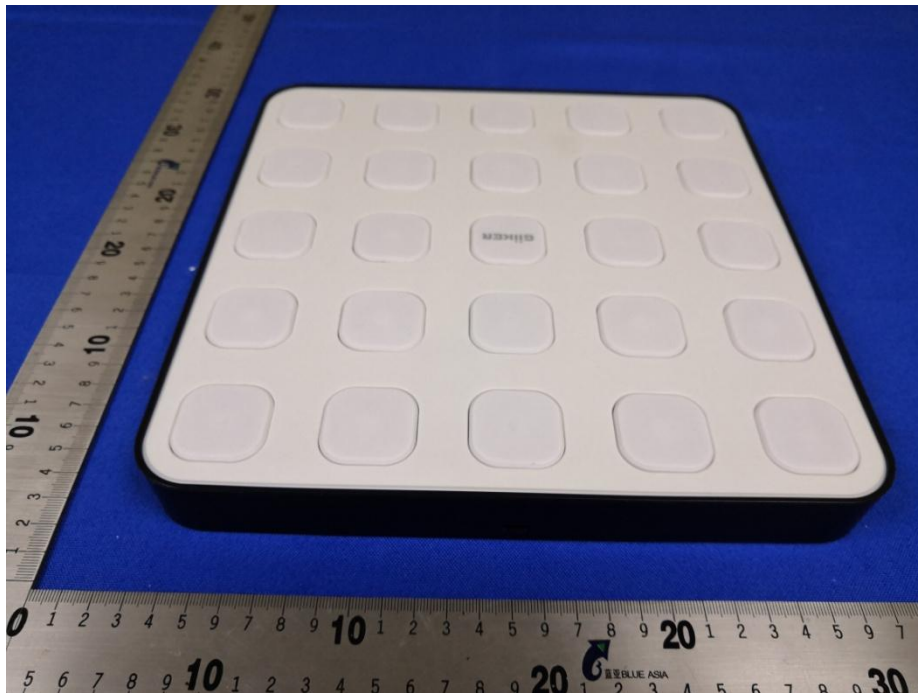
Antenna Requirement

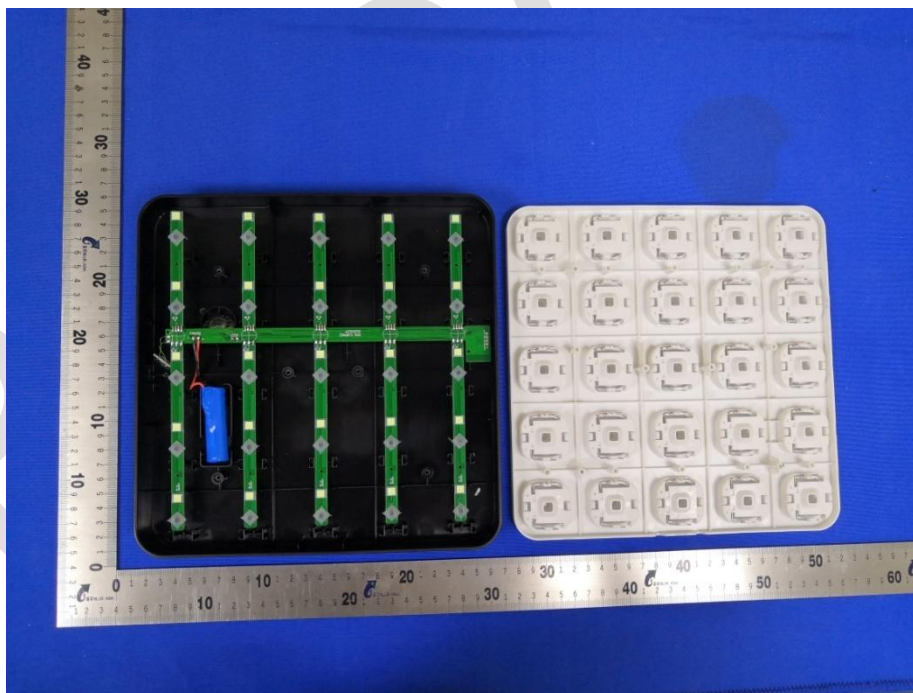
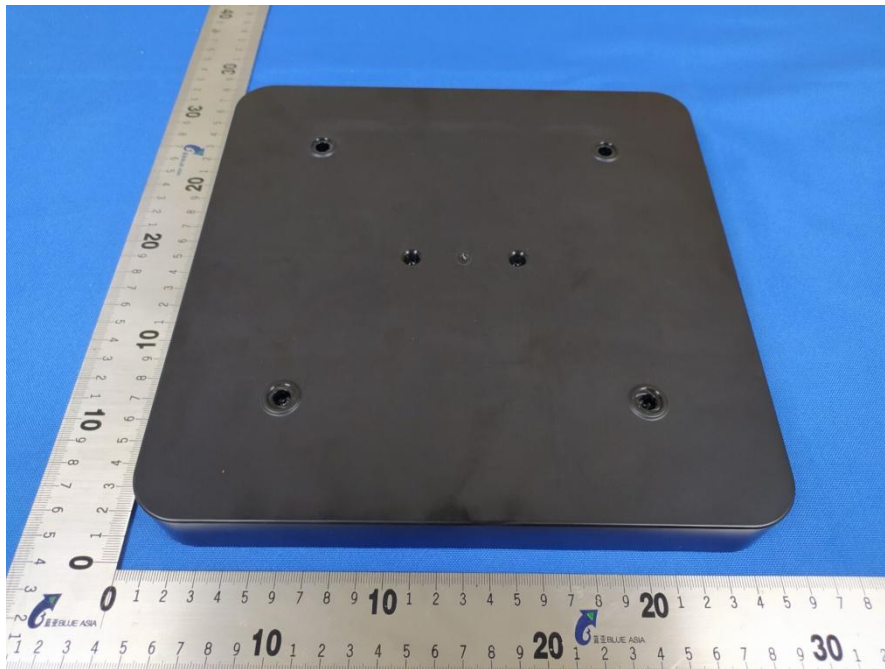


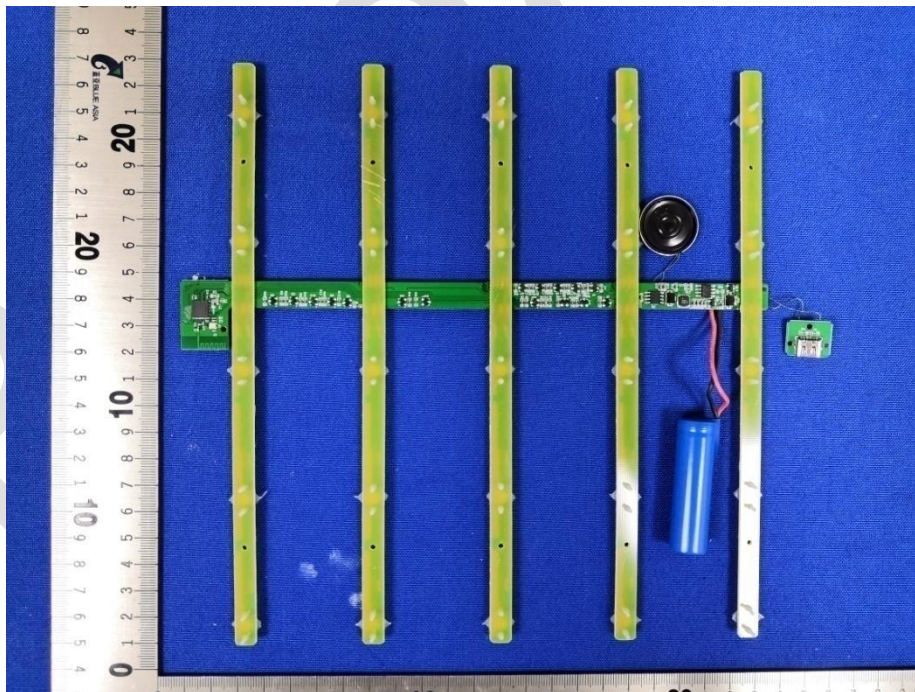
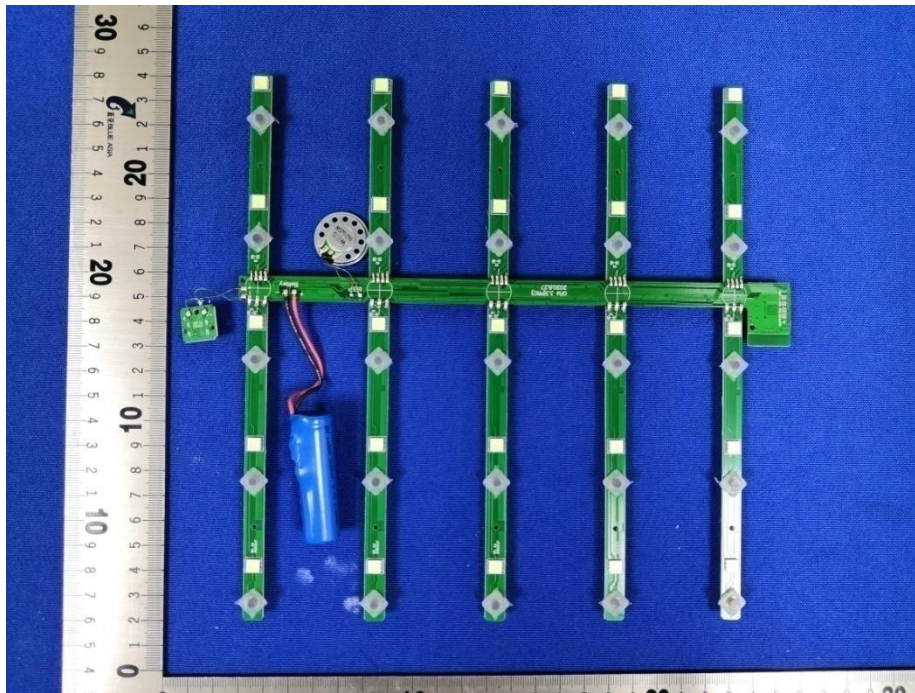
APPENDIX B: PHOTOGRAPHS OF EUT

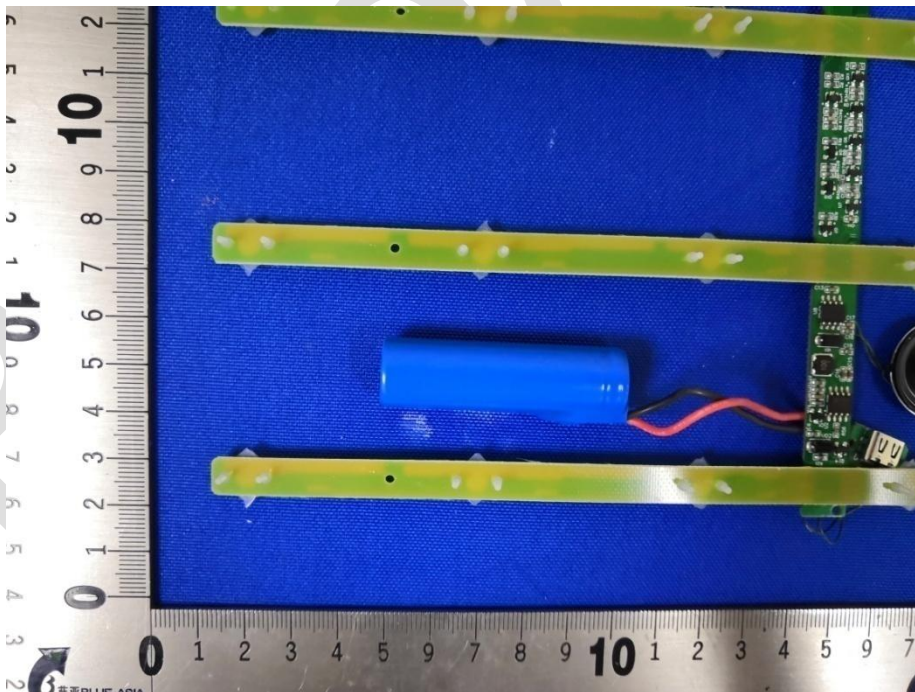
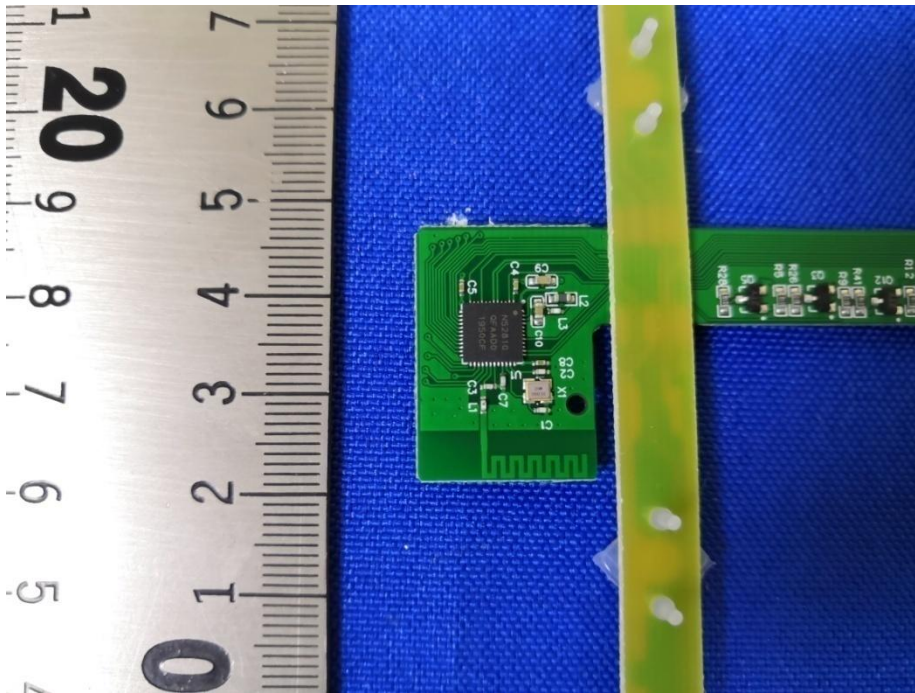


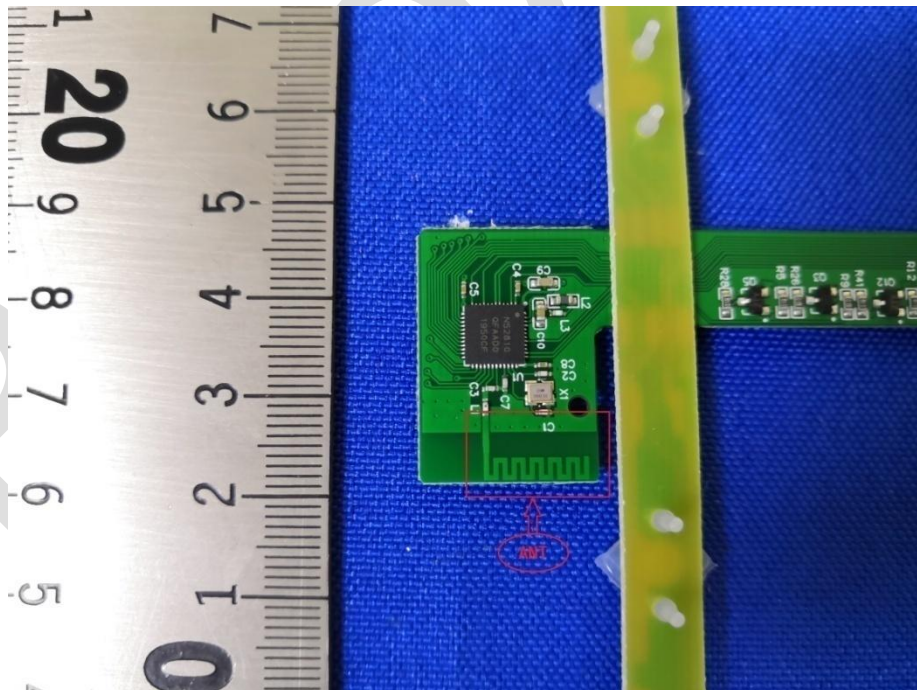
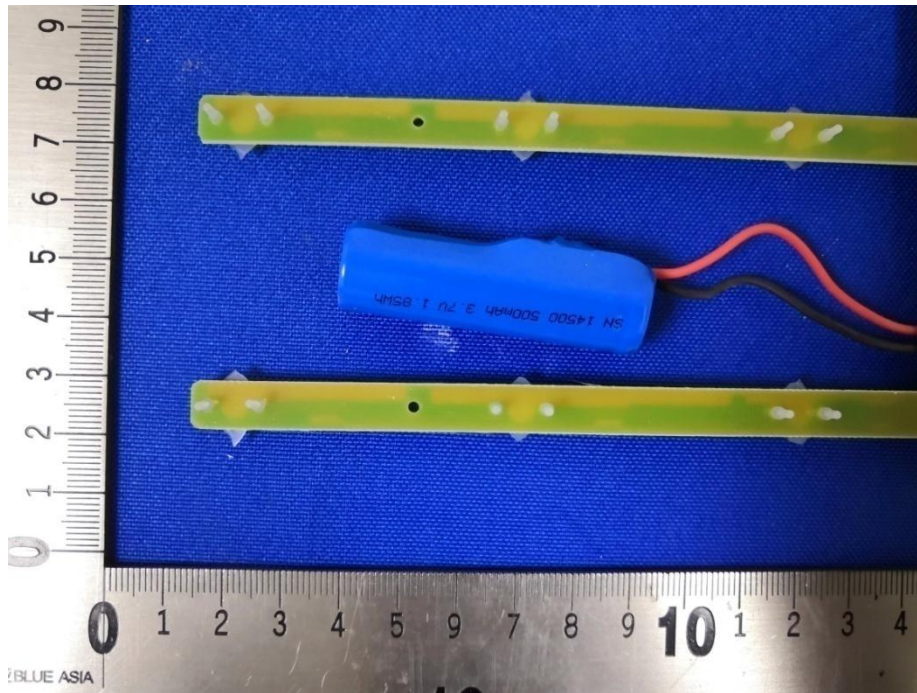












----END OF REPORT----

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