

EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.

RADIO TEST - REPORT

FCC Compliance Test Report for

Product name: Earbud Set

FCC ID: 2BVCF-A-B-102SERIES

Test Report Number: EFGX25120330-IE-01-E03

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1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD. is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

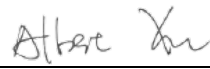
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Operator

2026-03-05	Bruce Zheng / Project Engineer	
Date	Eurofins-Lab.	Name / Title
		Signature

Technical responsibility for area of testing:

2026-03-05	Albert Xu / EMC Manager	
Date	Eurofins-Lab.	Name / Title
		Signature

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1.2 Testing laboratory

EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.

Room 20 of 2/F., 1/F., Building 2, Spring Block & Room 102, Building 8, Autumn Block Meishenghuigu Innovation Park, No.83, Dabao Road, Bao'an District Shenzhen, Guangdong, People's Republic of China

Telephone : +86-755-82911867

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The Laboratory has passed the Accreditation by the American Association for Laboratory Accreditation (A2LA). The Accreditation number is 5376.01

The Laboratory has been listed by industry Canada to perform electromagnetic emission measurements, The CAB identifier is CN0088

1.3 Details of applicant

Name	:	Shenzhen BrainCLOS Techonology Co., Ltd.
Address	:	No. 206, Building 6B, Zhonggang Plaza, Bao'an District, Shenzhen, China
Telephone	:	15268559972
Fax	:	./.

1.4 Details of manufacturer

Name	:	Shenzhen BrainCLOS Techonology Co., Ltd.
Address	:	No. 206, Building 6B, Zhonggang Plaza, Bao'an District, Shenzhen, China
Telephone	:	15268559972
Fax	:	./.

1.5 Application details

Date of receipt of application : 2025-12-16
Date of receipt of test item : 2025-12-16
Date of test : 2025-12-16 to 2026-03-05
Date of issue : 2026-03-05

1.6 Test item

Product type : Earbud Set
Model name : A102, A102-I, A102- II , A102-III, B102, B102-I, B102- II , B102-III
Brand name : ./.
Technical Description : Charger: 5V DC; Supply: 3.7V Battry; Output: 0-7.5mA, 0-3.75V (500Ω load)
Sample Code : 260302-37-001

RadioTechnical data

Fundamental frequency : 2400-2483.5 MHz
Radio Tech. : BT-LE
Modulation : GFSK
Antenna Type : Internal non-removable Ceramic Chip Antenna
MaxGain : 0.5 dBi

(General disclaimer:

The above sample(s) and sample information was/were submitted and identified on behalf of the applicant.

Eurofins assures objectivity and impartiality of the test, and fulfills the obligation of confidentiality for appli-cant's commercial information and technical documents.)

1.7 Test standards

FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
-----------------------	--

2 Technical Test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified were ascertained in the course of the tests performed.



2.2 Test environment

Ac line conducted

Atmospheric Pressure	Temperature °C	Relative Humidity
101.6 kPa	22.9	60.1%

RF Conducted

Atmospheric Pressure	Temperature °C	Relative Humidity
101.6 kPa	22.9	60.1%

Radiated

Atmospheric Pressure	Temperature °C	Relative Humidity
101.3 kPa	23.4	65.8%

2.3 Measurement uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for AC Conducted measurements	1.96dB
Uncertainty for Conducted RF test	RF Power Conducted: 1.16dB Frequency test involved: 1.05×10 ⁻⁷ or 1%
Uncertainty for Radiated Emission 9KHz-30MHz	4.56dB
Uncertainty for Radiated Spurious Emission 30MHz-1000MHz	Horizontal: 4.46dB; Vertical: 4.54dB;
Uncertainty for Radiated Spurious Emission 1000MHz-18000MHz	Horizontal: 4.42dB; Vertical: 4.41dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 4.63dB; Vertical: 4.62dB;

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2.4 Test equipment utilized

EQUIPMENT ID	EQUIPMENT NAME	MODEL NO.	CAL. DUE DATE
23-2-13-05	EMI Test Receiver	ESR3	2026-03-25
23-2-13-06	LISN	NNLK 8127 RC	2026-03-25
23-2-10-16	Attenuator	VTSD 9561-F	2026-03-25
23-2-13-12	Signal Analyzer	N9010B-544	2026-03-25
23-2-13-13	BT/WLAN Tester	CMW270	2026-03-25
23-2-13-14	Signal Generator	N5183B-520	2026-03-25
23-2-13-15	Vector Signal Generator	N5182B-506	2026-03-25
23-2-10-44	DC power supply	E3642A	2026-03-25
23-2-10-45	Temperature test chamber	SG-80-CC-2	2026-03-25
23-2-13-01	EMI Test Receiver	ESR7	2026-03-25
23-2-13-02	Signal Analyzer	N9020B-544	2026-03-25
23-2-12-01	Active Loop Antenna	FMZB 1519B	2025-05-29
23-2-12-02	TRILOG Broadband Antenna	VULB9168	2026-06-02
23-2-12-03	Horn Antenna	3117	2026-06-02
23-2-12-04	Horn Antenna	BBHA 9170	2025-05-29
23-2-10-01	Preamplifier	BBV9745	2026-03-25
23-2-10-02	Preamplifier	TAP01018048	2026-03-25
23-2-10-03	Preamplifier	TAP18040048	2026-03-25
23-2-10-14	Switch and Control Unit	ERIT-E-JS0806-SF1	N/A
23-2-13-03	EMI Test Receiver	ESR7	2026-03-25
23-2-13-04	Signal Analyzer	N9020B-526	2026-03-25
23-2-12-06	Active Loop Antenna	FMZB 1519B	2026-03-25
23-2-12-07	TRILOG Broadband Antenna	VULB9168	2026-05-08
23-2-12-08	Horn Antenna	3117	2026-05-08
23-2-10-46	Preamplifier	BBV9745	2026-03-25
23-2-10-47	Preamplifier	TAP01018048	2026-03-25
23-2-10-15	Switch and Control Unit	ERIT-E-JS0806-SF1	N/A

2.5 Auxiliary equipment used during test

Description	Manufacturer	Model No.	S/N
Laptop	LENOVO	TP00096A	PF-1QH0LV

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2.6 Test mode

Mode 1	Fixed-Frequency Continuous Transmission Mode (LE 1M)
Mode 2	Fixed-Frequency Continuous Transmission Mode (LE 2M)
Mode 3	Normal operation Mode

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

2.7 Test software information

Test Software & Version	RFTTest_0901_boxed_中英.exe
Mode	Power setting
LE 1M	0x03
LE 2M	0x03

2.8 Test results

☒ 1st test

☐ test after modification

☐ production test

FCC rule section(s)		Test Result	Verdict
§15.203	Antenna requirement	See note 1	Pass
§15.207	AC power-line conducted emissions	Appendix A	Pass
§15.247(a)(2)	DTS bandwidth	Appendix B	Pass
§15.247(b)(3)	Fundamental emission output power	Appendix C	Pass
§15.247(e)	Maximum power spectral density level in the fundamental emission	Appendix D	Pass
§15.247(d)	Emissions in non-restricted frequency bands	Appendix E Appendix F	Pass
§15.205 §15.209	Emissions in restricted frequency bands	Appendix H	Pass
--	Duty cycle	Appendix G	--

Note 1: The antenna is a surface-mounted ceramic chip antenna integrated into the PCB assembly. It is permanently soldered onto the PCB during manufacturing, is not accessible to the end user, and does not employ any standard RF antenna connector. Therefore, the antenna complies with the requirements of FCC Part 15.203.

3 Test Requirements

3.1 AC power-line conducted emissions

3.1.1 Limits

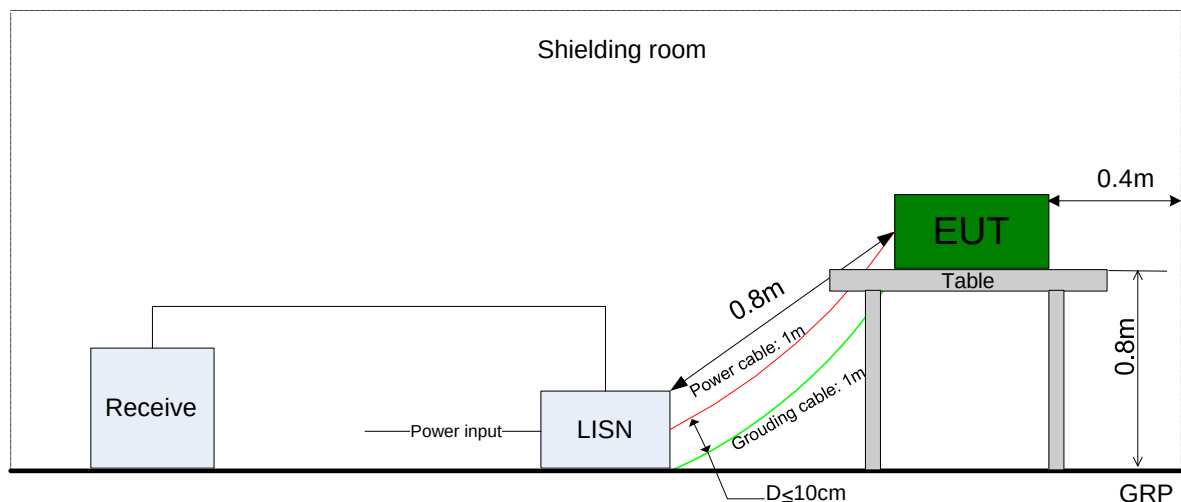
Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹
0.5 – 5	56	46
5 – 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

3.1.2 Measurement procedure

Clause 6.2 of *ANSI C63.10-2020*.

3.1.3 Setup



3.2 DTS bandwidth

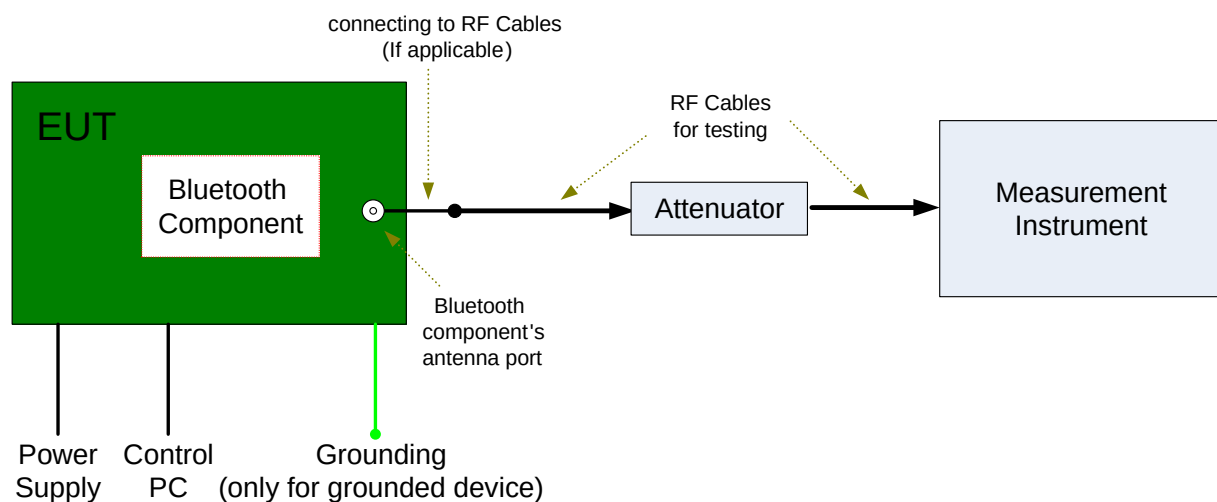
3.2.1 Limits

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.2.2 Measurement procedure

Clause 11.8 of *ANSI C63.10-2020*.

3.2.3 Setup



3.3 Fundamental emission output power

3.3.1 Limits

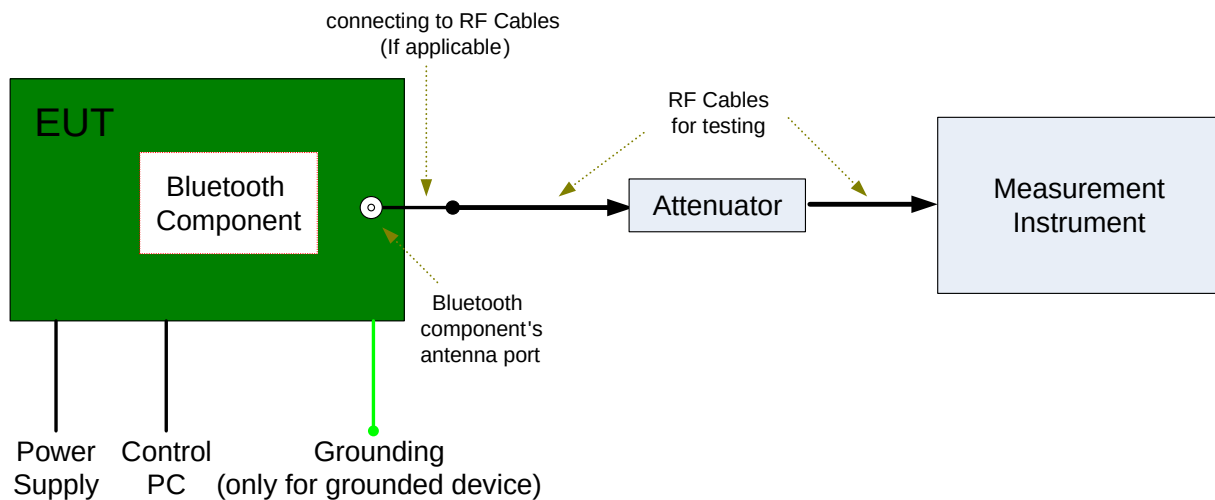
For DTS operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power.

3.3.2 Measurement procedure

Clause 11.9 of ANSI C63.10-2020.

3.3.3 Setup



3.4 Maximum power spectral density level in the fundamental emission

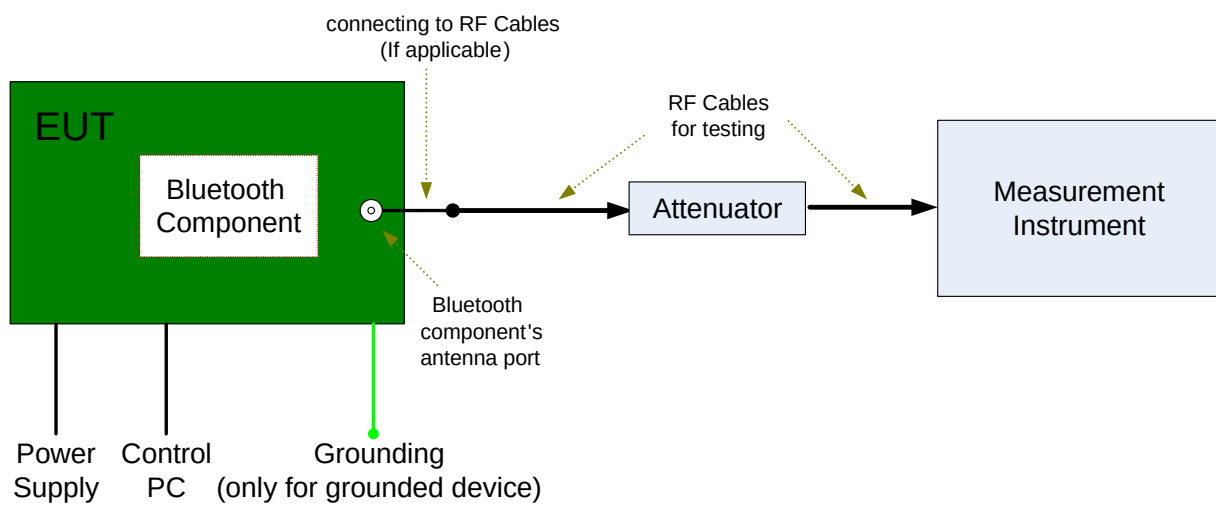
3.4.1 Limits

The transmitter power spectral density conducted from the transmitter to the antenna(s) shall not be greater than 8 dbm/3 khz band during any time interval of continuous transmission.

3.4.2 Measurement procedure

Clause 11.10 of *ANSI C63.10-2020*.

3.4.3 Setup



3.5 Emissions in non-restricted frequency bands

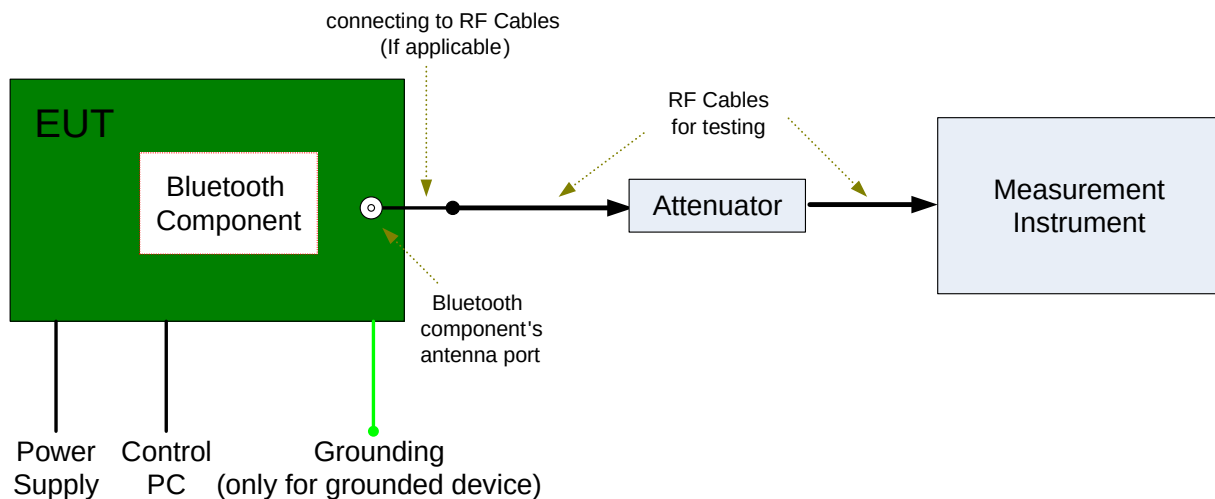
3.5.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

3.5.2 Measurement procedure

Clause 11.11 of *ANSI C63.10-2020*.

3.5.3 Setup



3.6 Emissions in restricted frequency bands

3.6.1 Limits

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

FCC Restricted bands of operation

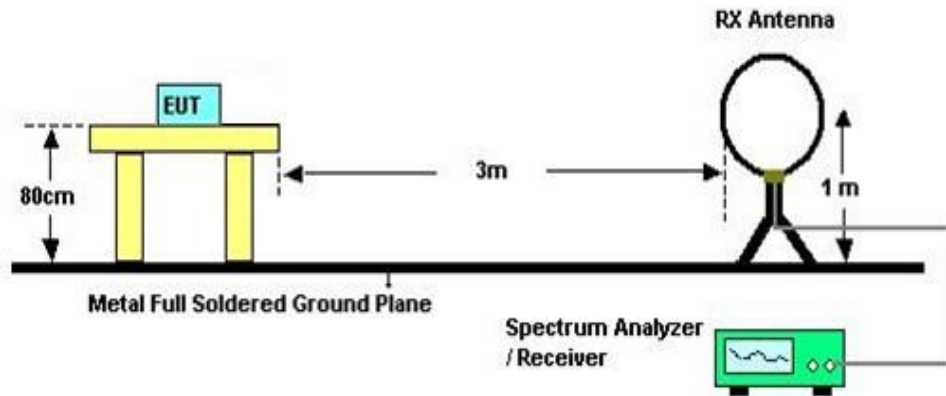
MHz	MHz	MHz	GHz
0.090-0.110	13.36-13.41	322-335.4	3.6-4.4
0.495-0.505	16.42-16.423	399.9-410	4.5-5.15
2.1735-2.1905	16.69475-16.69525	608-614	5.35-5.46
4.125-4.128	16.80425-16.80475	960-1240	7.25-7.75
4.17725-4.17775	25.5-25.67	1300-1427	8.025-8.5
4.20725-4.20775	37.5-38.25	1435-1626.5	9.0-9.2
6.215-6.218	73-74.6	1645.5-1646.5	9.3-9.5
6.26775-6.26825	74.8-75.2	1660-1710	10.6-12.7
6.31175-6.31225	108-121.94	1718.8-1722.2	13.25-13.4
8.291-8.294	123-138	2200-2300	14.47-14.5
8.362-8.366	149.9-150.05	2310-2390	15.35-16.2
8.37625-8.38675	156.52475-156.52525	2483.5-2500	17.7-21.4
8.41425-8.41475	156.7-156.9	2690-2900	22.01-23.12
12.29-12.293	162.0125-167.17	3260-3267	23.6-24.0
12.51975-12.52025	167.72-173.2	3332-3339	31.2-31.8
12.57675-12.57725	240-285	3345.8-3358	36.43-36.5

3.6.2 Measurement procedure

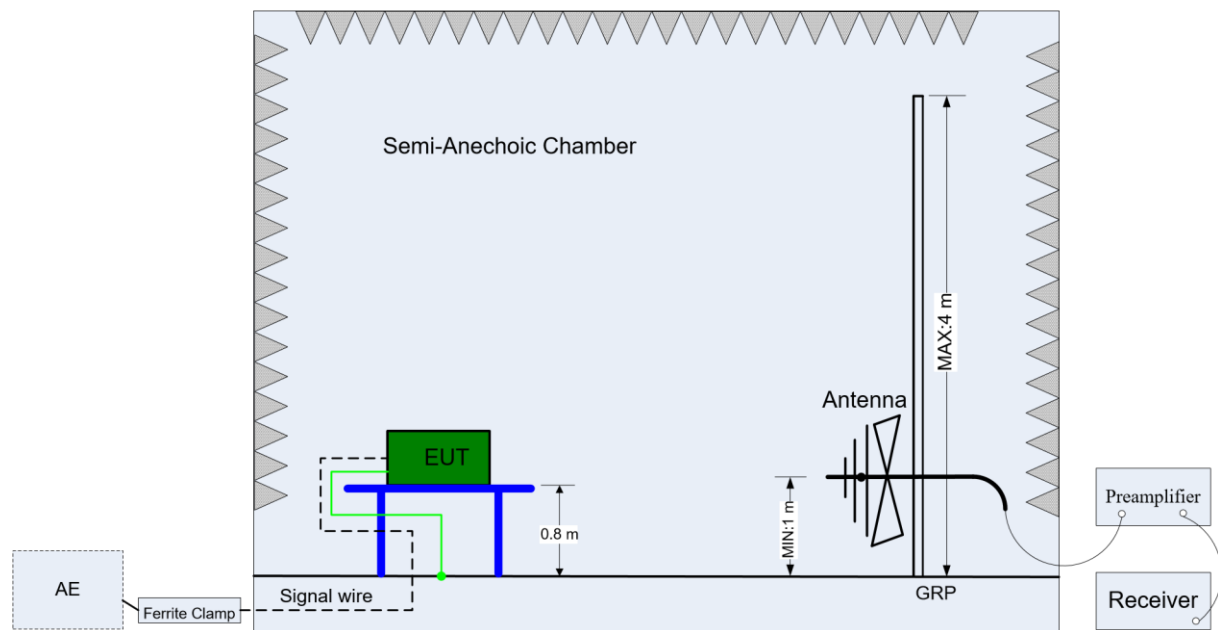
Clause 11.12 of ANSI C63.10-2020.

3.6.3 Setup

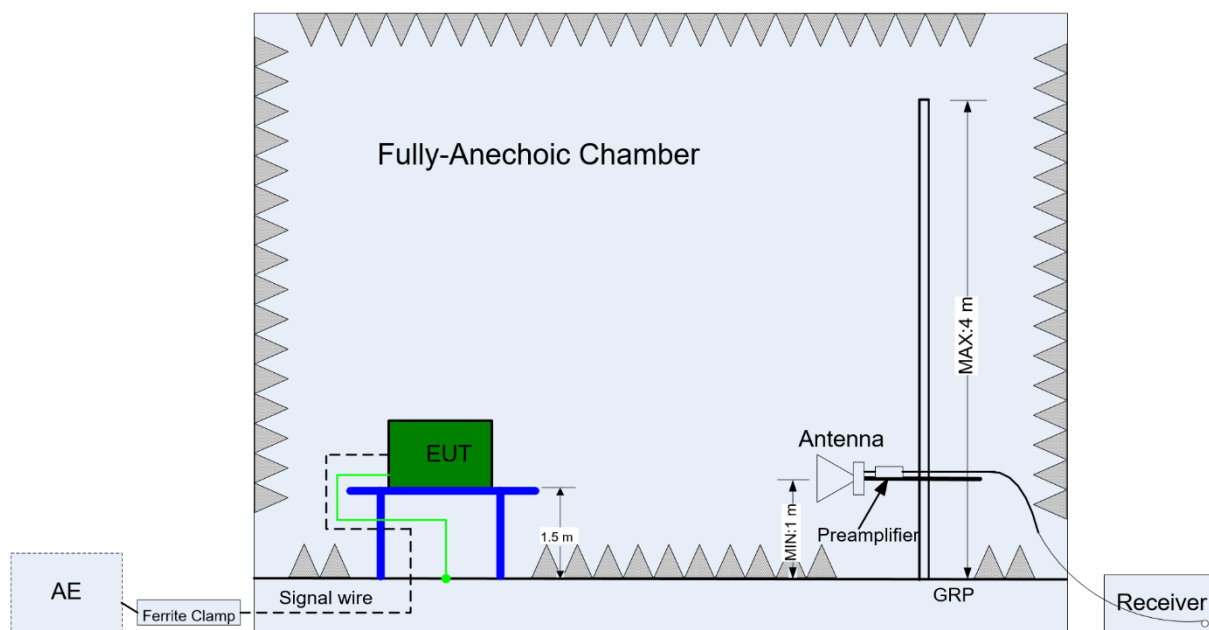
Below 30MHz



Below 1GHz



Above 1GHz



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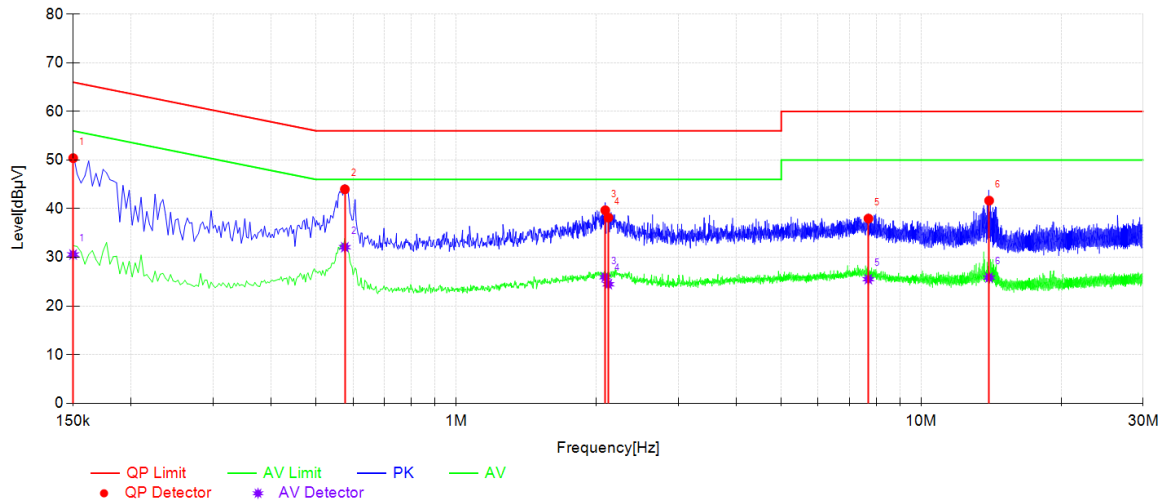
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Appendix A: AC power-line conducted emissions

Mode:	Normal operation	Channel:	/
Antenna:	/	State:	/

Start of Test: 2026-03-03 17:41:10

Test Graph



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.15	10.25	50.40	66.00	15.60	30.59	56.00	25.41	L1	PASS
2	0.576	10.25	44.00	56.00	12.00	32.08	46.00	13.92	L1	PASS
3	2.091	10.28	39.68	56.00	16.32	25.92	46.00	20.08	L1	PASS
4	2.124	10.28	38.17	56.00	17.83	24.48	46.00	21.52	L1	PASS
5	7.698	10.42	37.98	60.00	22.02	25.51	50.00	24.49	L1	PASS
6	13.993	10.54	41.67	60.00	18.33	25.85	50.00	24.15	L1	PASS

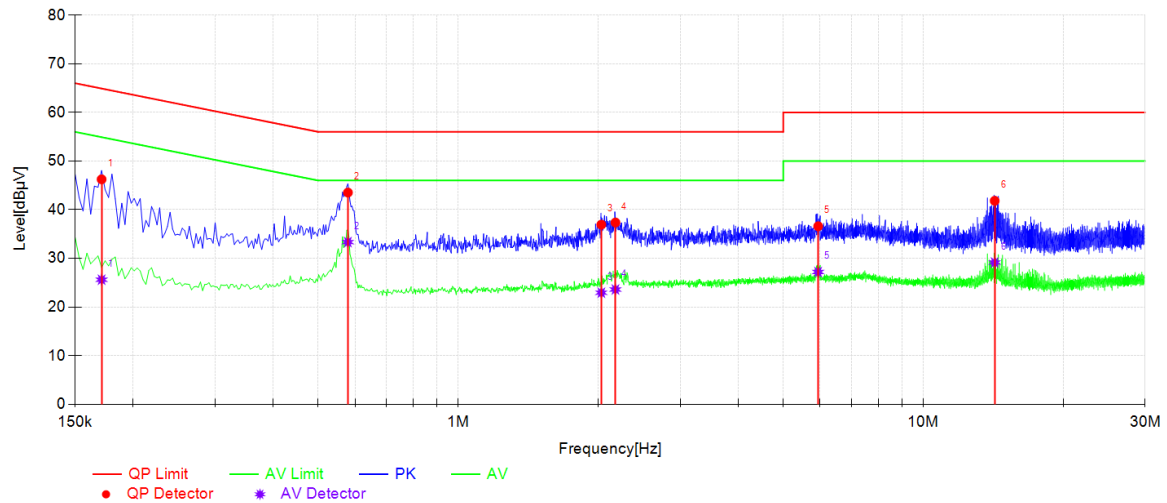
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Mode:	Normal operation	Channel:	/
Antenna:	/	State:	/

Start of Test: 2026-03-03 17:41:10

Test Graph



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.171	10.35	46.25	64.91	18.66	25.61	54.91	29.30	N	PASS
2	0.579	10.25	43.53	56.00	12.47	33.34	46.00	12.66	N	PASS
3	2.031	10.38	36.94	56.00	19.06	22.94	46.00	23.06	N	PASS
4	2.178	10.38	37.38	56.00	18.62	23.60	46.00	22.40	N	PASS
5	5.943	10.41	36.61	60.00	23.39	27.20	50.00	22.80	N	PASS
6	14.245	10.63	41.84	60.00	18.16	29.15	50.00	20.85	N	PASS

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Appendix B: DTS Bandwidth

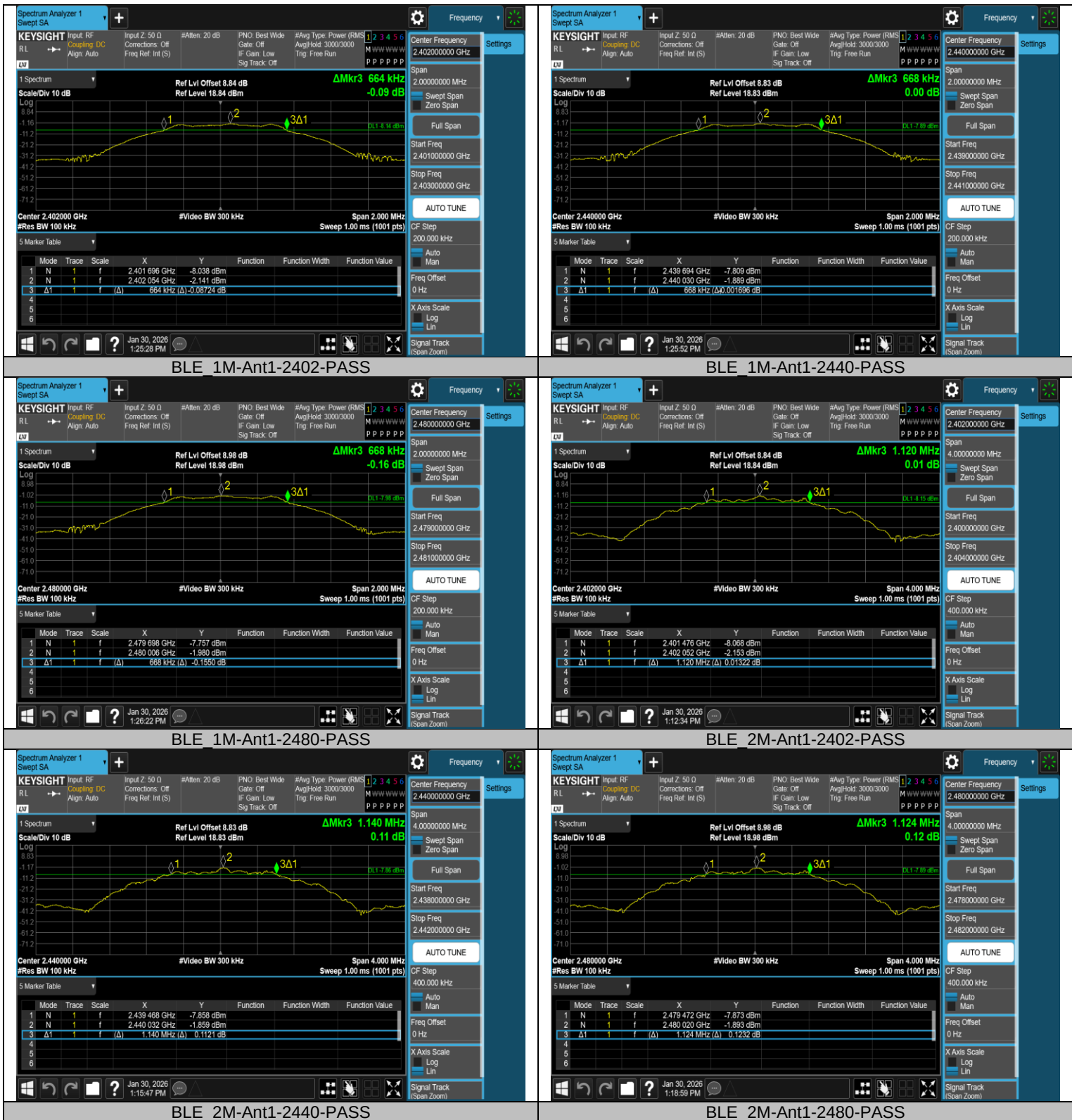
Test Result

TestMode	Antenna	Channel[MHz]	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.696	2402.360	0.5	PASS
BLE_1M	Ant1	2440	0.668	2439.694	2440.362	0.5	PASS
BLE_1M	Ant1	2480	0.668	2479.698	2480.366	0.5	PASS
BLE_2M	Ant1	2402	1.120	2401.476	2402.596	0.5	PASS
BLE_2M	Ant1	2440	1.140	2439.468	2440.608	0.5	PASS
BLE_2M	Ant1	2480	1.124	2479.472	2480.596	0.5	PASS

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Test Graphs



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Appendix C: Maximum conducted output power

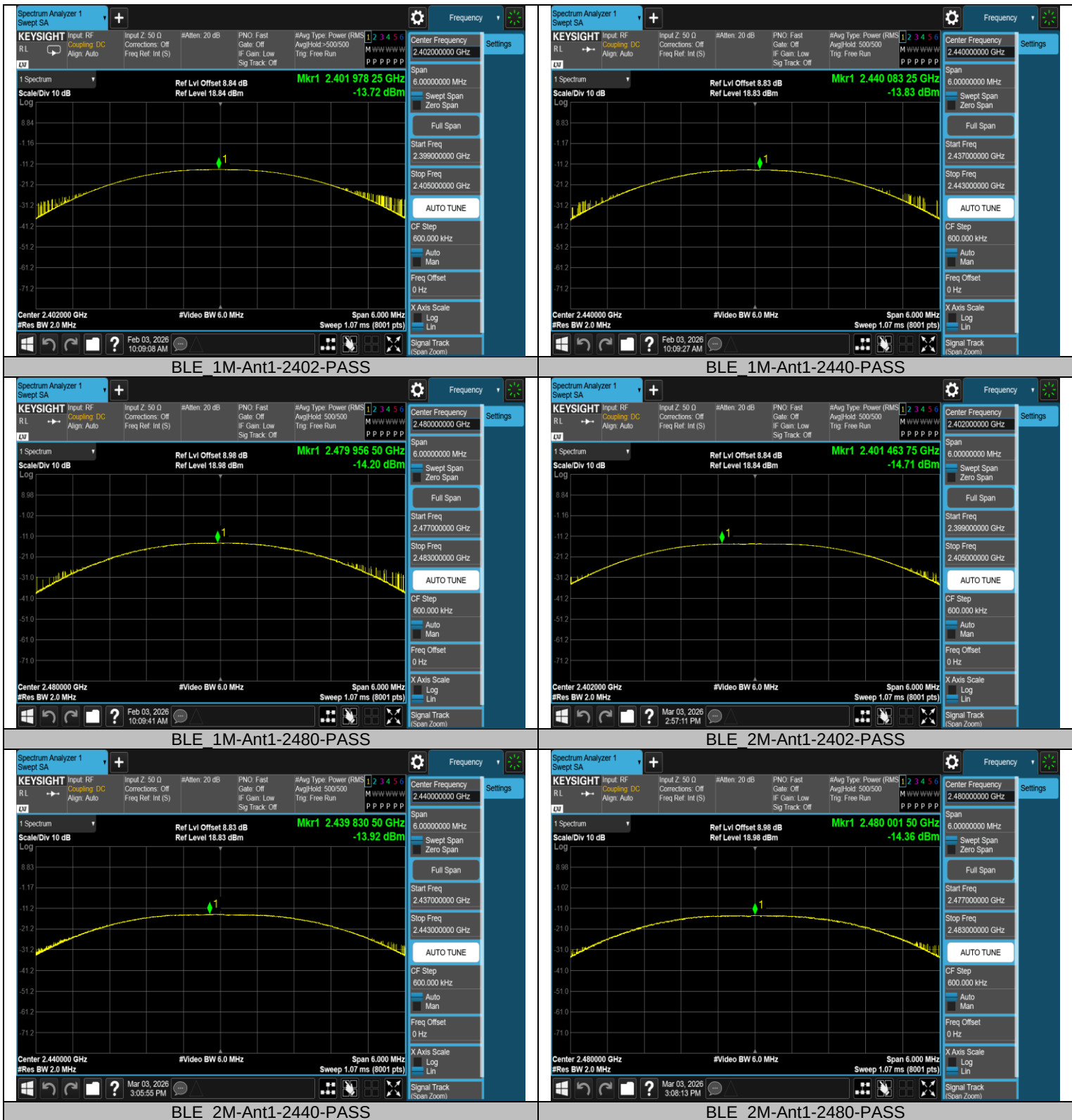
Test Result Peak

TestMode	Antenna	Channel [MHz]	Conducted Power[dBm]	Conducted Limit[dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-13.72	≤30	0.50	-13.22	≤36	PASS
BLE_1M	Ant1	2440	-13.83	≤30	0.50	-13.33	≤36	PASS
BLE_1M	Ant1	2480	-14.20	≤30	0.50	-13.70	≤36	PASS
BLE_2M	Ant1	2402	-14.71	≤30	0.50	-14.21	≤36	PASS
BLE_2M	Ant1	2440	-13.92	≤30	0.50	-13.42	≤36	PASS
BLE_2M	Ant1	2480	-14.36	≤30	0.50	-13.86	≤36	PASS

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Test Graphs Peak



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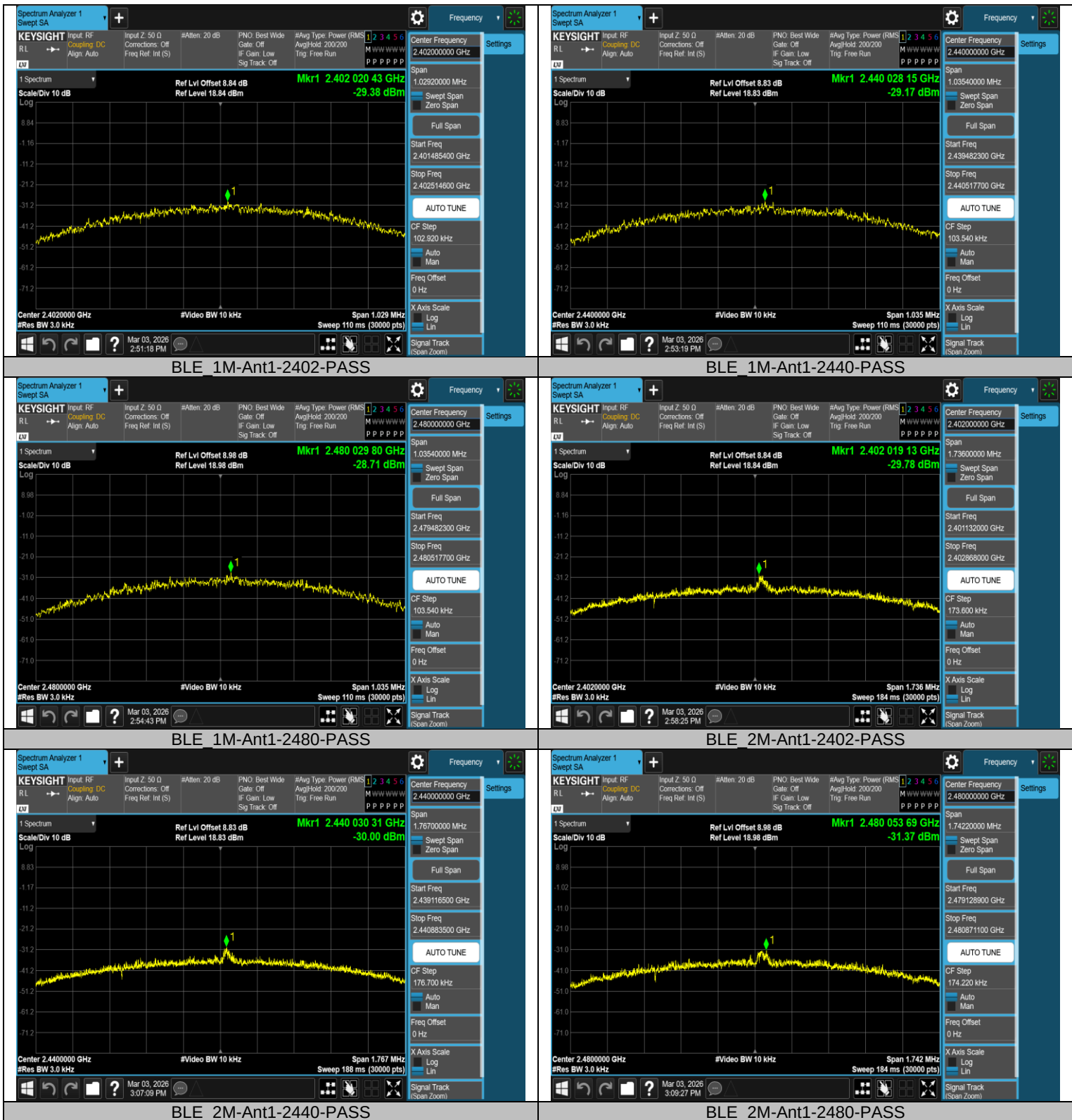
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-29.38	≤8.00	PASS
BLE_1M	Ant1	2440	-29.17	≤8.00	PASS
BLE_1M	Ant1	2480	-28.71	≤8.00	PASS
BLE_2M	Ant1	2402	-29.78	≤8.00	PASS
BLE_2M	Ant1	2440	-30.00	≤8.00	PASS
BLE_2M	Ant1	2480	-31.37	≤8.00	PASS

Test Graphs



Test Report No.: EFGX25120330-IE-01-E03

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Appendix E: Band edge measurements

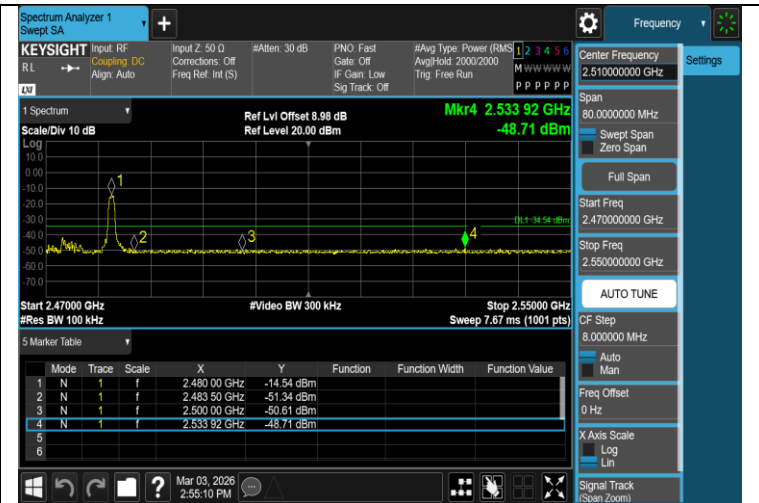
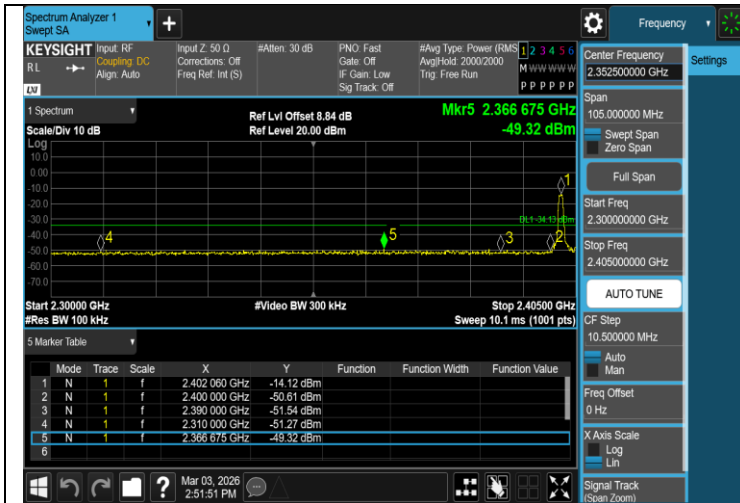
Test Result

TestMode	Antenna	ChName	Channel[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-14.13	-49.32	≤-34.13	PASS
BLE_1M	Ant1	High	2480	-14.54	-48.71	≤-34.54	PASS
BLE_2M	Ant1	Low	2402	-14.06	-46.14	≤-34.06	PASS
BLE_2M	Ant1	High	2480	-14.43	-48.72	≤-34.43	PASS

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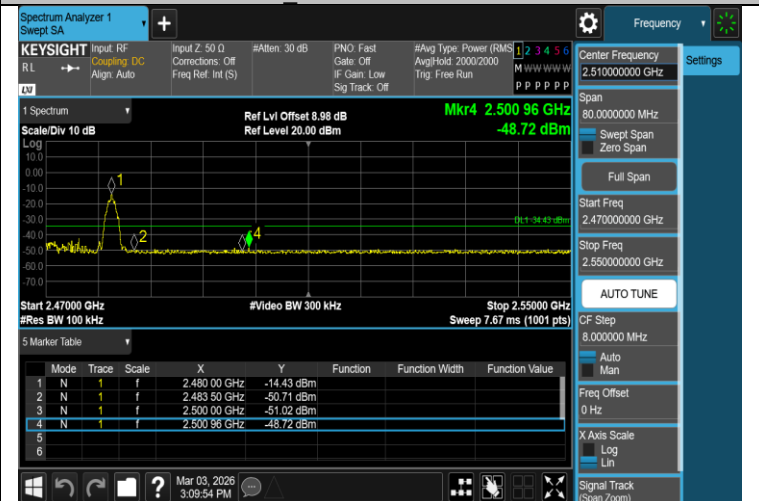
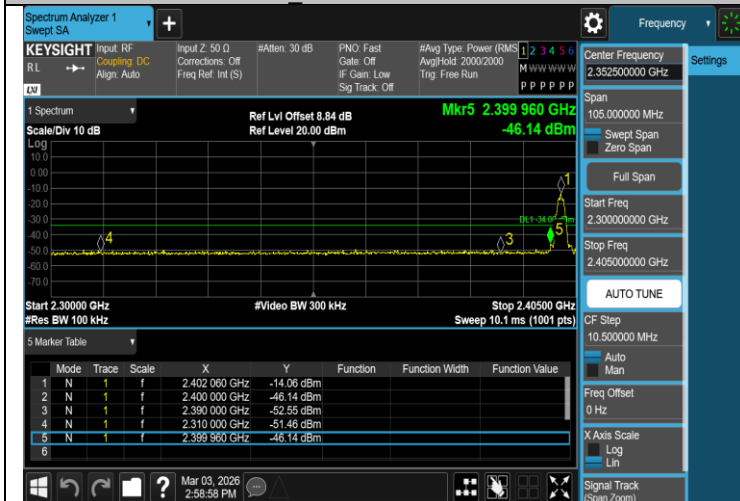
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Test Graphs



BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

BLE_2M-Ant1-2480-PASS

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Appendix F: Conducted Spurious Emission

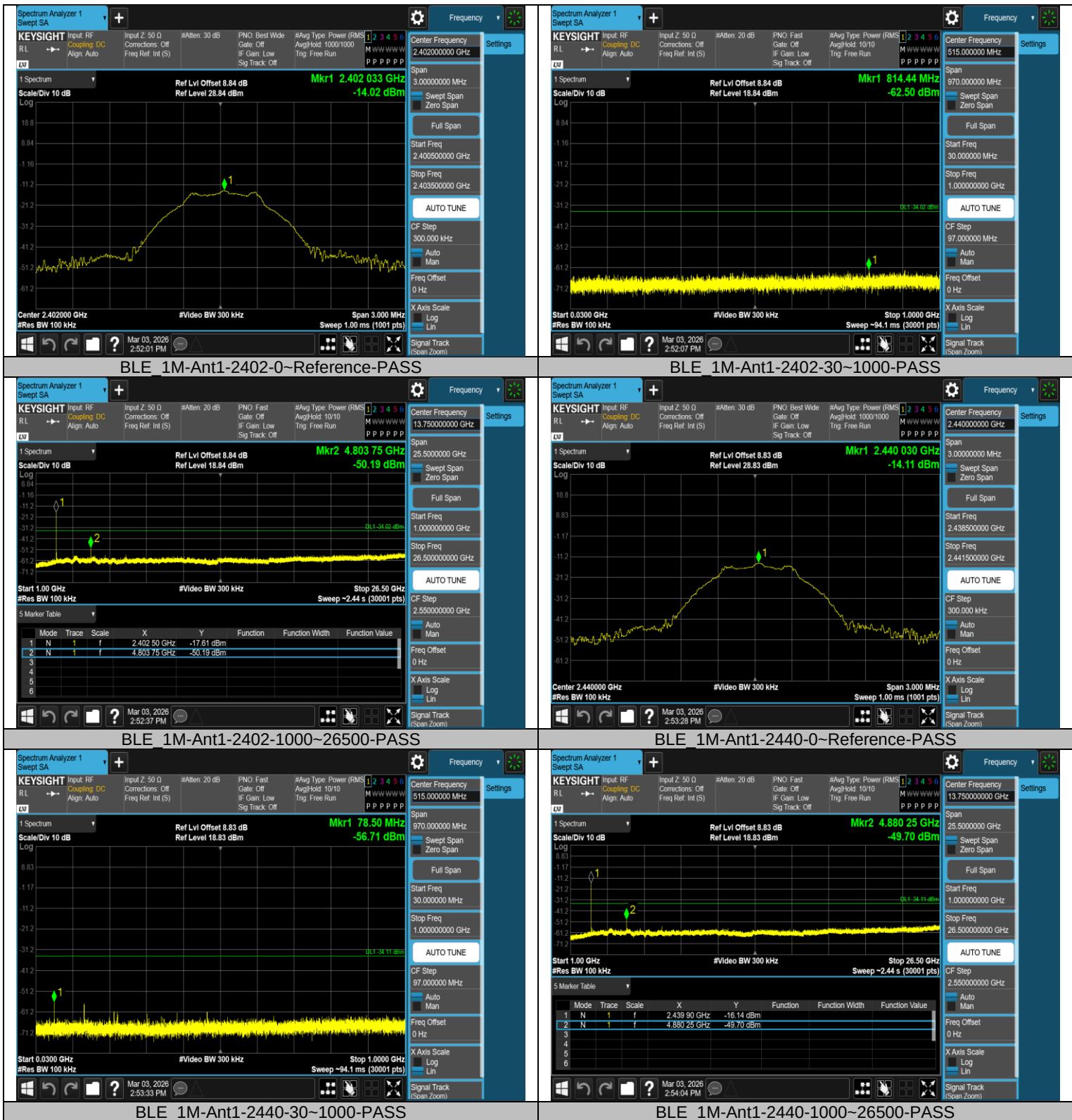
Test Result

TestMode	Antenna	Channel[MHz]	FreqRange[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE 1M	Ant1	2402	0~Reference	-14.02	-14.02	---	PASS
BLE 1M	Ant1	2402	30~1000	-14.02	-62.5	≤ -34.02	PASS
BLE 1M	Ant1	2402	1000~26500	-14.02	-50.19	≤ -34.02	PASS
BLE 1M	Ant1	2440	0~Reference	-14.11	-14.11	---	PASS
BLE 1M	Ant1	2440	30~1000	-14.11	-56.71	≤ -34.11	PASS
BLE 1M	Ant1	2440	1000~26500	-14.11	-49.7	≤ -34.11	PASS
BLE 1M	Ant1	2480	0~Reference	-14.58	-14.58	---	PASS
BLE 1M	Ant1	2480	30~1000	-14.58	-59.87	≤ -34.58	PASS
BLE 1M	Ant1	2480	1000~26500	-14.58	-50.78	≤ -34.58	PASS
BLE 2M	Ant1	2402	0~Reference	-14.06	-14.06	---	PASS
BLE 2M	Ant1	2402	30~1000	-2.19	-56.67	≤ -22.19	PASS
BLE 2M	Ant1	2402	1000~26500	-2.19	-38.09	≤ -22.19	PASS
BLE 2M	Ant1	2440	0~Reference	-13.94	-13.94	---	PASS
BLE 2M	Ant1	2440	30~1000	-13.94	-57.62	≤ -33.94	PASS
BLE 2M	Ant1	2440	1000~26500	-13.94	-49.87	≤ -33.94	PASS
BLE 2M	Ant1	2480	0~Reference	-14.41	-14.41	---	PASS
BLE 2M	Ant1	2480	30~1000	-14.41	-61.93	≤ -34.41	PASS
BLE 2M	Ant1	2480	1000~26500	-14.41	-51.26	≤ -34.41	PASS

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Test Graphs



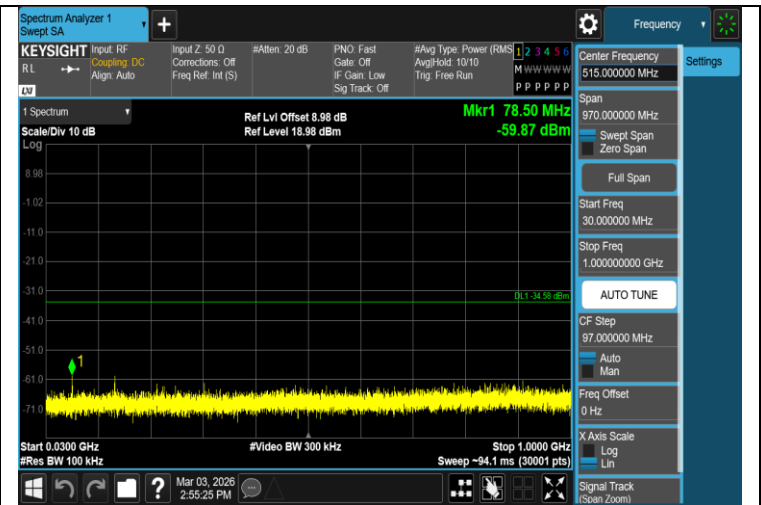
Test Report No.: EFGX25120330-IE-01-E03

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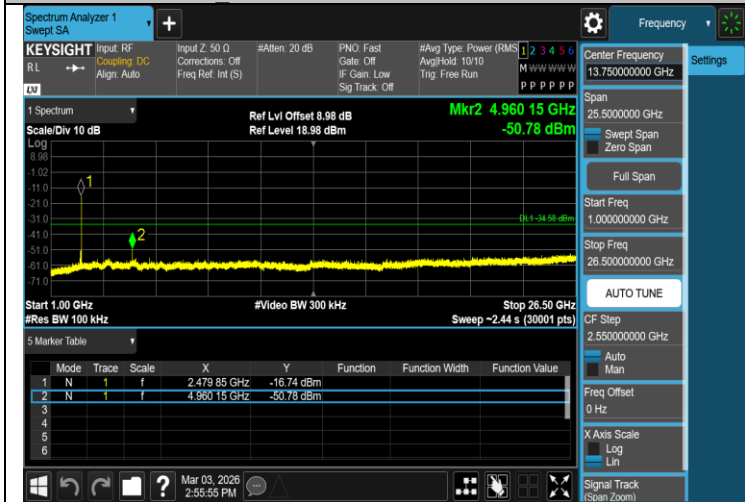
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BLE 1M-Ant1-2480-0~Reference-PASS



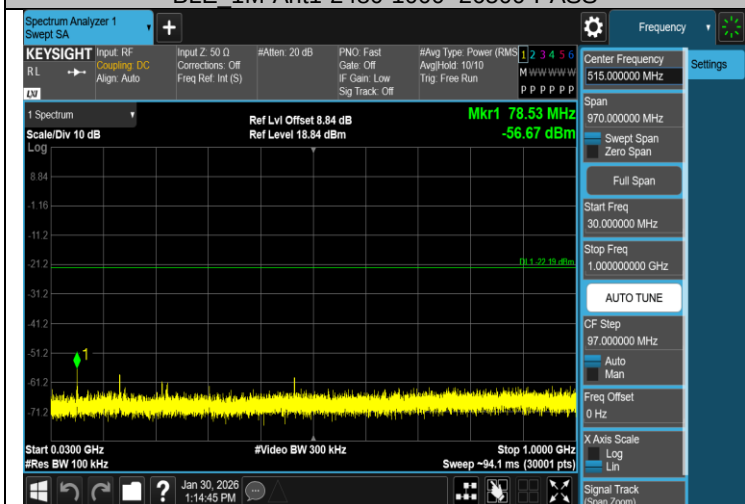
BLE 1M-Ant1-2480-30~1000-PASS



BLE 1M-Ant1-2480-1000~26500-PASS



BLE 2M-Ant1-2402-0~Reference-PASS



BLE 2M-Ant1-2402-30~1000-PASS



BLE 2M-Ant1-2402-1000~26500-PASS

Test Report No.: EFGX25120330-IE-01-E03

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