Test Report

Report No.	:	MTi250324003-0109E1
Date of issue	:	2025-04-15
Applicant	:	Targus International LLC
Product	:	Hyper BT Locator
Model(s)	:	HS5800
FCC ID	:	OXM000159

Shenzhen Microtest Co., Ltd.

TEST REPORT

Report No.: MTi250324003-0109E1

Table of contents

1 General Description 4

1.1 Description of the EUT 4
1.2 Description of test modes 4
1.3 Environmental Conditions 6
1.4 Description of support units 6
1.5 Measurement uncertainty 6

2 Summary of Test Result 7
3 Test Facilities and accreditations 8

3.1 Test laboratory 8

4 List of test equipment 9
5 Evaluation Results (Evaluation) 10

5.1 Antenna requirement 10

6 Radio Spectrum Matter Test Results (RF) 11

6.1 6dB Bandwidth 11
6.2 Maximum Conducted Output Power 12
6.3 Power Spectral Density 13
6.4 RF conducted spurious emissions and band edge measurement 14
6.5 Band edge emissions (Radiated) 15
6.6 Radiated emissions (below 1GHz) 18
6.7 Radiated emissions (above 1GHz) 22

Photographs of the test setup 26
Photographs of the EUT 27
Appendix A: DTS Bandwidth 29
Appendix B: Maximum conducted output power 33
Appendix C: Maximum power spectral density 37
Appendix D: Band edge measurements 41
Appendix E: Conducted Spurious Emission 43
Appendix F: Duty Cycle 51

TEST REPORT

Report No.: MTi250324003-0109E1

Test Result Certification	
Applicant	Targus International LLC
Applicant Address	1211 North Miller Street, Anaheim, CA 92806 USA
Manufacturer	Targus International LLC
Manufacturer Address	1211 North Miller Street, Anaheim, CA 92806 USA
Factory1	Shenzhen Reflying Electronic Co., Ltd
Factory 1 Address	2F, Bldg. 4, 201-501, Bldg. B6, Gaoxinjian Industrial Area, Fuyuan 1 Rd., Heping Shequ, Fuhai St., Baoan Dist., Shenzhen, Guangdong, China
Factory2	RX Tech Electronic Vina Co., Ltd.
Factory 2 Address	335 Yen phong Industrial Zone, Yen Trung Village, Yen phong District, Bac Ninh Province, Vietnam
Product description	
Product name	Hyper BT Locator
Trademark	N/A
Model name	HS5800
Series Model(s)	N/A
Standards	47 CFR Part 15.247
Test Method	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02
Testing Information	
Date of test	2025-04-02 to 2025-04-10
Test result	Pass

Prepared by:	Yanice.Xie	Yanice Xie
Reviewed by:	David Lee	David. Lee
Approved by:	Lewis Lian	Lewis Lian

1 General Description

1.1 Description of the EUT

Product name:	Hyper BT Locator
Model name:	HS5800
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input: DC 3V Battery: DC 3V(CR2032)
Accessories:	N/A
Hardware version:	1.3
Software version:	1.0.0
Test sample(s) number:	MTi250324003-01-R001
RF specification	
Bluetooth version:	V5.0
Operating frequency range:	2402-2480MHz
Channel number:	40
Modulation type:	GFSK
Antenna(s) type:	PCB Antenna
Antenna(s) gain:	-1.63 dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	TX mode(GFSK-1M)
Mode2	TX mode(GFSK-2M)

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

Test Channel List
Operation Band: 2400-2483.5 MHz

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
2	2402	2440	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: Lab Test Tool V2.2.1.9
For power setting, refer to below table.

Mode	2402MHz	2440MHz	2480MHz
1M	14	14	14
2M	14	14	14

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
/	/	/	/
Support cable list			
Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Measurement	Uncertainty
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	Requirement	Result
1	Antenna requirement	47 CFR 15.203	Pass
2	6dB Bandwidth	47 CFR 15.247(a)(2)	Pass
3	Maximum Conducted Output Power	47 CFR 15.247(b)(3)	Pass
4	Power Spectral Density	47 CFR 15.247(e)	Pass
5	RF conducted spurious emissions and band edge measurement	47 CFR 15.247(d), 15.209, 15.205	Pass
6	Band edge emissions (Radiated)	47 CFR 15.247(d), 15.209, 15.205	Pass
7	Radiated emissions (below 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated emissions (above 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Conducted Emission at AC power line	47 CFR 15.207(a)	N/A

Note: Since the EUT cannot be operating while charging, therefore AC power line conducted emissions test is not required.

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
6dB Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2025-03-18	2026-03-17
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2025-03-14	2026-03-13
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2025-03-14	2026-03-13
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2025-03-18	2026-03-17
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2025-03-18	2026-03-17
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2025-03-18	2026-03-17
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2025-03-18	2026-03-17
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2025-03-14	2026-03-13
9	DC Power Supply	Agilent	E3632A	MY40027695	2025-03-18	2026-03-17
Emissions in frequency bands (above 1GHz) Band edge emissions (Radiated)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03-14	2026-03-13
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2023-06-17	2025-06-16
3	Amplifier	Agilent	8449B	3008A01120	2025-03-18	2026-03-17
4	MXA signal analyzer	Agilent	N9020A	MY54440859	2025-03-14	2026-03-13
5	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2025-03-14	2026-03-13
6	Horn antenna	Schwarzbeck	BBHA 9170	00987	2023-06-17	2025-06-16
7	Pre-amplifier	Space-Dtronics	EWLAN1840 G	210405001	2025-03-19	2026-03-18
Emissions in frequency bands (below 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03-14	2026-03-13
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2026-03-22
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2025-03-18	2026-03-17

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

5.1.1 Conclusion:

The antenna of the EUT is permanently attached. The EUT complies with the requirement of FCC PART 15.203.

6 Radio Spectrum Matter Test Results (RF)

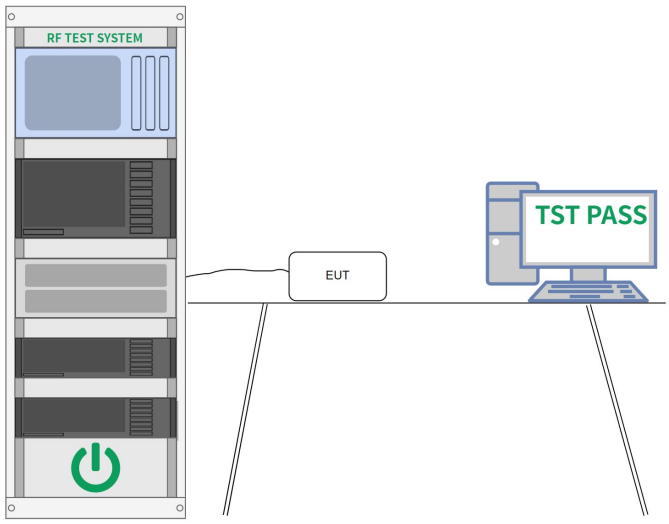
6.1 6dB Bandwidth

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 >= [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.

6.1.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	62 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	Mode1, Mode2				

6.1.2 Test Setup Diagram:



6.1.3 Test Data:

Please Refer to Appendix for Details.

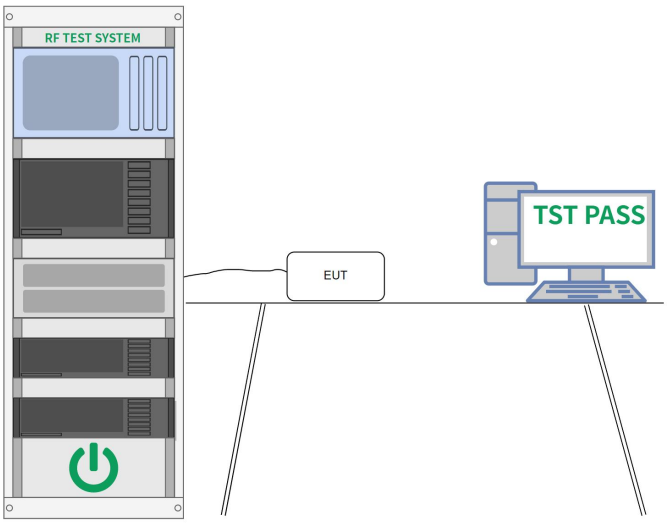
6.2 Maximum Conducted Output Power

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 11.9.1.1 Maximum peak conducted output power

6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	62 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	Mode1, Mode2				

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.

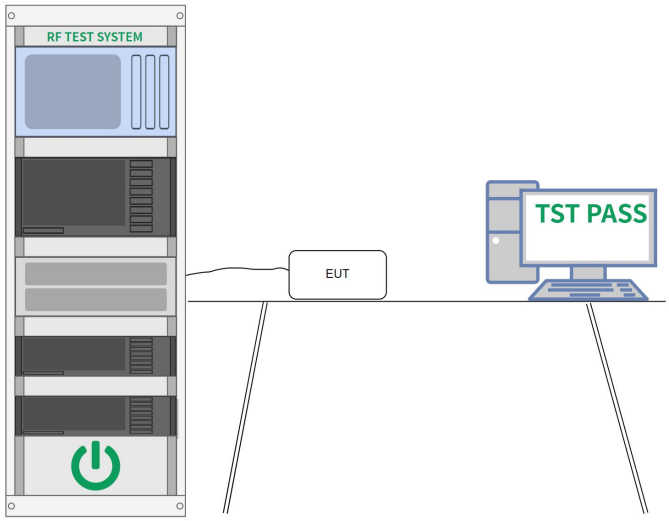
6.3 Power Spectral Density

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 11.10.2, Maximum power spectral density level in the fundamental emission

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	62 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	Mode1, Mode2				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

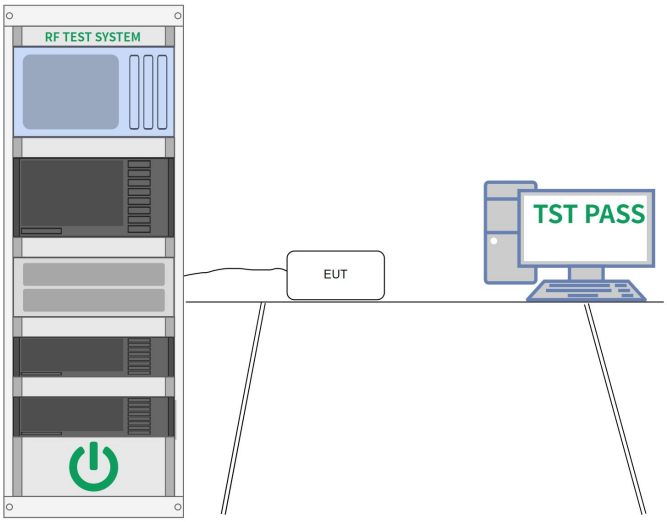
6.4 RF conducted spurious emissions and band edge measurement

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
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

6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	62 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	Mode1, Mode2				

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.

6.5 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

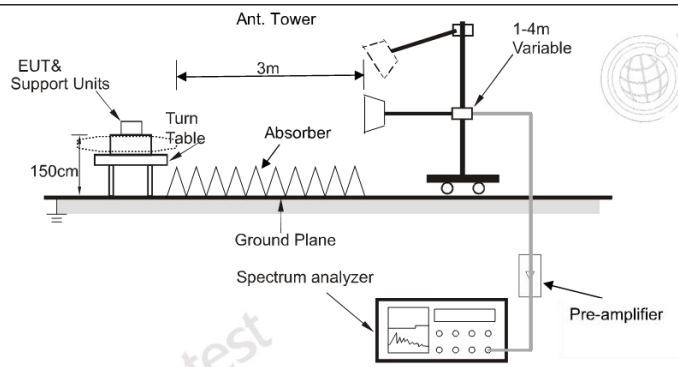
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
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 C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 section 6.10.5.2

6.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.3 °C	Humidity:	56 %	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: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.					

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	47.70	-4.83	42.87	74.00	-31.13	peak
2		2310.000	37.69	-4.83	32.86	54.00	-21.14	AVG
3		2390.000	47.25	-4.31	42.94	74.00	-31.06	peak
4	*	2390.000	38.11	-4.31	33.80	54.00	-20.20	AVG

Mode1 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	47.71	-4.83	42.88	74.00	-31.12	peak
2		2310.000	37.82	-4.83	32.99	54.00	-21.01	AVG
3		2390.000	47.45	-4.31	43.14	74.00	-30.86	peak
4	*	2390.000	37.78	-4.31	33.47	54.00	-20.53	AVG

Mode1 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	57.17	-4.21	52.96	74.00	-21.04	peak
2	*	2483.500	48.76	-4.21	44.55	54.00	-9.45	AVG
3		2500.000	47.10	-4.10	43.00	74.00	-31.00	peak
4		2500.000	37.87	-4.10	33.77	54.00	-20.23	AVG

Mode1 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	50.22	-4.21	46.01	74.00	-27.99	peak
2	*	2483.500	41.40	-4.21	37.19	54.00	-16.81	AVG
3		2500.000	47.80	-4.10	43.70	74.00	-30.30	peak
4		2500.000	37.84	-4.10	33.74	54.00	-20.26	AVG

6.6 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.
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.

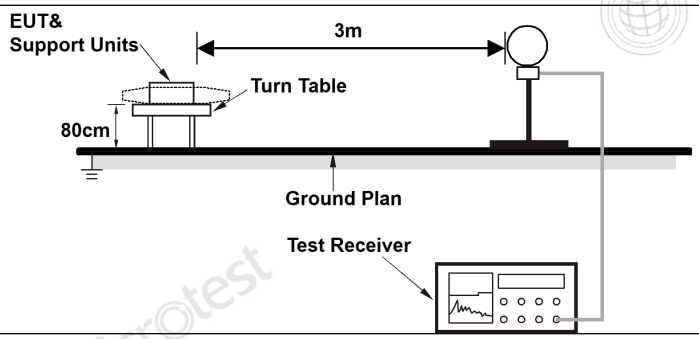
Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 section 6.6.4

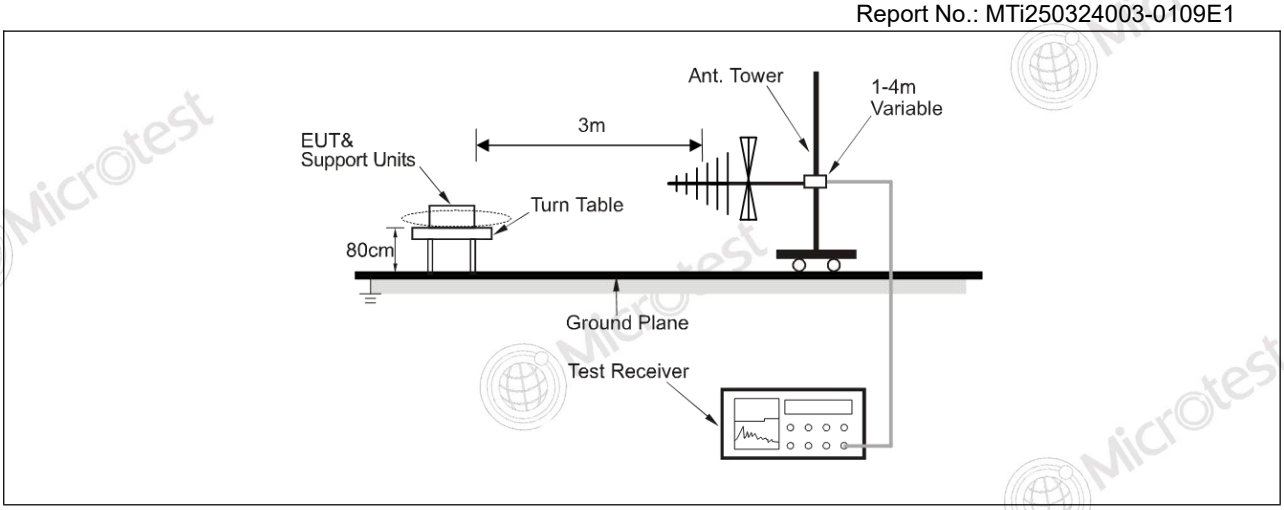
6.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.3 °C	Humidity:	56 %	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:
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.

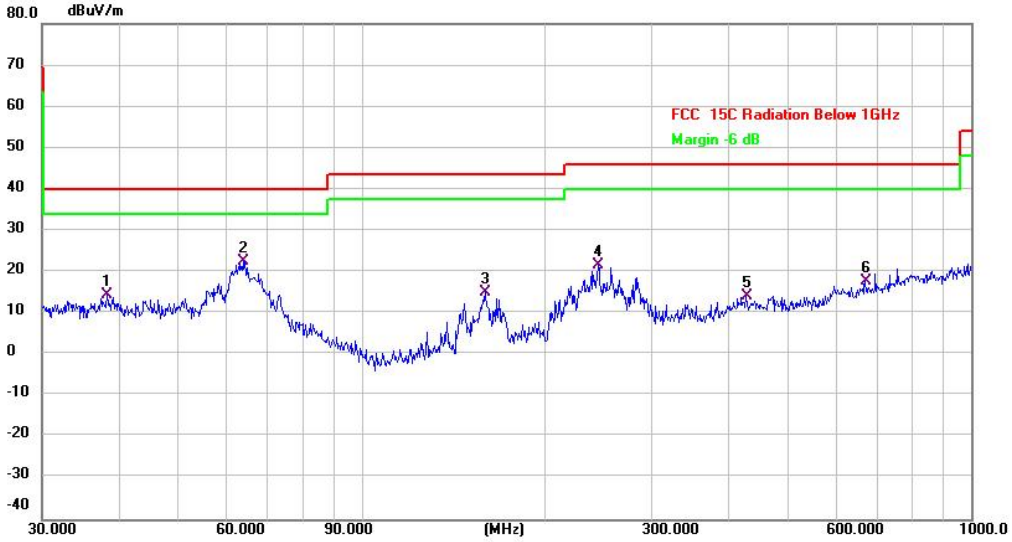
6.6.2 Test Setup Diagram:




Ant. Tower
1-4m
Variable
3m
EUT&
Support Units
Turn Table
80cm
Ground Plane
Test Receiver

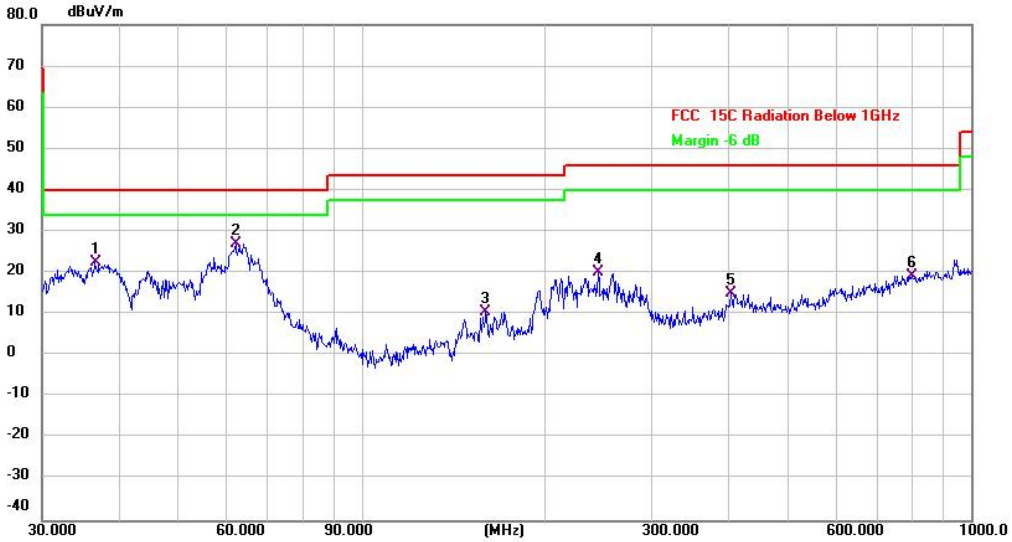
6.6.3 Test Data:

Mode1 / Polarization: Horizontal / CH: H



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		38.3462	28.54	-14.14	14.40	40.00	-25.60	QP	
2	*	63.9828	40.43	-17.86	22.57	40.00	-17.43	QP	
3		159.2251	35.90	-20.70	15.20	43.50	-28.30	QP	
4		245.0900	37.06	-15.30	21.76	46.00	-24.24	QP	
5		428.0193	27.69	-13.44	14.25	46.00	-31.75	QP	
6		670.4893	27.34	-9.68	17.66	46.00	-28.34	QP	

Mode1 / Polarization: Vertical / CH: H



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		36.6375	46.98	-24.41	22.57	40.00	-17.43	QP	
2	*	62.2128	48.25	-21.14	27.11	40.00	-12.89	QP	
3		159.7844	27.90	-17.28	10.62	43.50	-32.88	QP	
4		245.0900	38.80	-18.62	20.18	46.00	-25.82	QP	
5		404.6665	29.10	-13.91	15.19	46.00	-30.81	QP	
6		798.9797	26.29	-6.90	19.39	46.00	-26.61	QP	

6.7 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

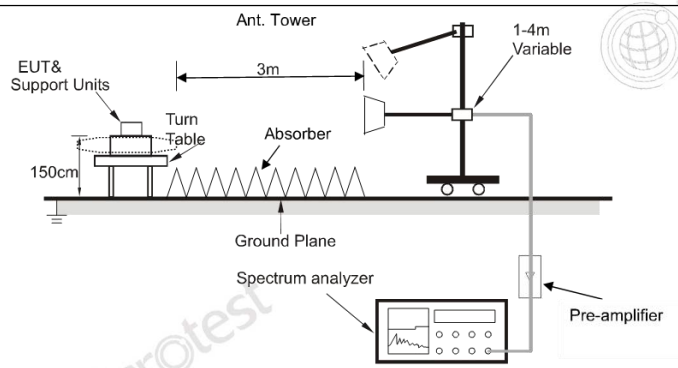
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this 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 C63.10-2013 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:	24.3 °C	Humidity:	56 %	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.					

6.7.2 Test Setup Diagram:



6.7.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	46.52	0.53	47.05	74.00	-26.95	peak
2		4804.000	40.83	0.53	41.36	54.00	-12.64	AVG
3		7206.000	42.96	7.90	50.86	74.00	-23.14	peak
4		7206.000	36.57	7.90	44.47	54.00	-9.53	AVG
5		9608.000	44.72	8.85	53.57	74.00	-20.43	peak
6	*	9608.000	38.74	8.85	47.59	54.00	-6.41	AVG

Mode1 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	45.47	0.53	46.00	74.00	-28.00	peak
2		4804.000	39.79	0.53	40.32	54.00	-13.68	AVG
3		7206.000	42.79	7.90	50.69	74.00	-23.31	peak
4		7206.000	36.42	7.90	44.32	54.00	-9.68	AVG
5		9608.000	44.61	8.85	53.46	74.00	-20.54	peak
6	*	9608.000	38.84	8.85	47.69	54.00	-6.31	AVG

Mode1 / Polarization: Horizontal / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4880.000	49.31	0.56	49.87	74.00	-24.13	peak
2		4880.000	43.03	0.56	43.59	54.00	-10.41	AVG
3		7320.000	42.88	7.54	50.42	74.00	-23.58	peak
4		7320.000	36.78	7.54	44.32	54.00	-9.68	AVG
5		9760.000	43.88	9.33	53.21	74.00	-20.79	peak
6	*	9760.000	38.29	9.33	47.62	54.00	-6.38	AVG

Mode1 / Polarization: Vertical / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4880.000	44.38	0.56	44.94	74.00	-29.06	peak
2		4880.000	37.96	0.56	38.52	54.00	-15.48	AVG
3		7320.000	43.28	7.54	50.82	74.00	-23.18	peak
4		7320.000	37.00	7.54	44.54	54.00	-9.46	AVG
5		9760.000	44.20	9.33	53.53	74.00	-20.47	peak
6	*	9760.000	38.23	9.33	47.56	54.00	-6.44	AVG

Mode1 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	49.67	0.66	50.33	74.00	-23.67	peak
2		4960.000	43.59	0.66	44.25	54.00	-9.75	AVG
3		7440.000	43.41	7.94	51.35	74.00	-22.65	peak
4		7440.000	37.53	7.94	45.47	54.00	-8.53	AVG
5		9920.000	44.09	9.69	53.78	74.00	-20.22	peak
6	*	9920.000	37.93	9.69	47.62	54.00	-6.38	AVG

Mode1 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	47.90	0.66	48.56	74.00	-25.44	peak
2		4960.000	41.49	0.66	42.15	54.00	-11.85	AVG
3		7440.000	43.22	7.94	51.16	74.00	-22.84	peak
4		7440.000	37.54	7.94	45.48	54.00	-8.52	AVG
5		9920.000	44.01	9.69	53.70	74.00	-20.30	peak
6	*	9920.000	37.96	9.69	47.65	54.00	-6.35	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	0.724	0.5	PASS
		2440	0.732	0.5	PASS
		2480	0.780	0.5	PASS
BLE_2M	Ant1	2402	1.316	0.5	PASS
		2440	1.336	0.5	PASS
		2480	1.328	0.5	PASS

Test Graphs

BLE_1M_Ant1_2402

BLE_1M_Ant1_2440

BLE_1M_Ant1_2480

BLE_2M_Ant1_2402

BLE_2M_Ant1_2440

TEST REPORT

Report No.: MTi250324003-0109E1

BLE_2M_Ant1_2480

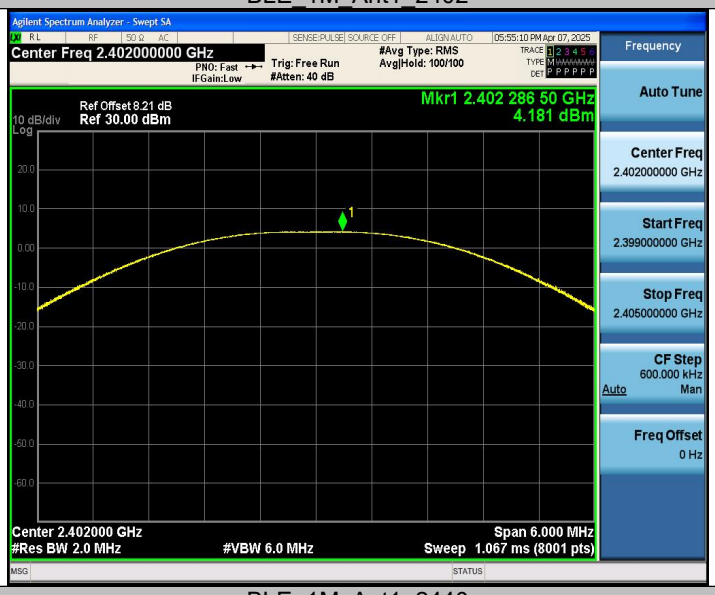
Appendix B: Maximum conducted output power

Test Result-Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	4.18	≤30	PASS
		2440	3.50	≤30	PASS
		2480	4.02	≤30	PASS
BLE_2M	Ant1	2402	4.00	≤30	PASS
		2440	3.28	≤30	PASS
		2480	3.69	≤30	PASS

Test Graphs

BLE_1M_Ant1_2402



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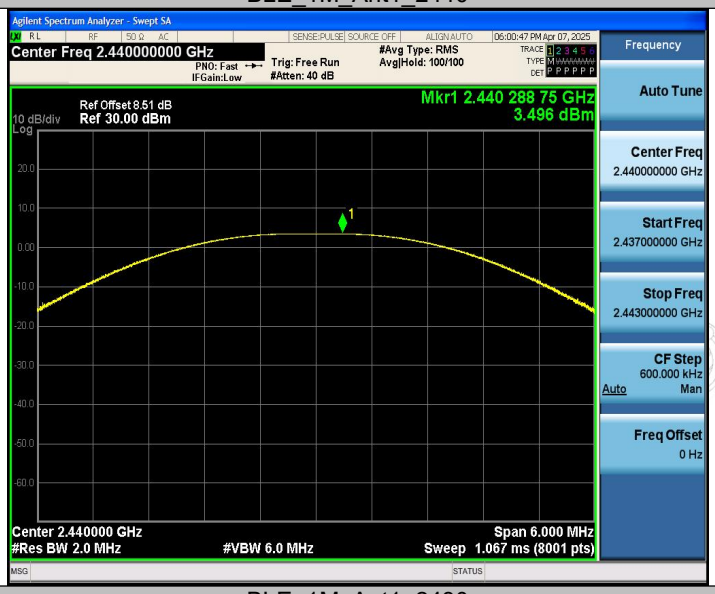
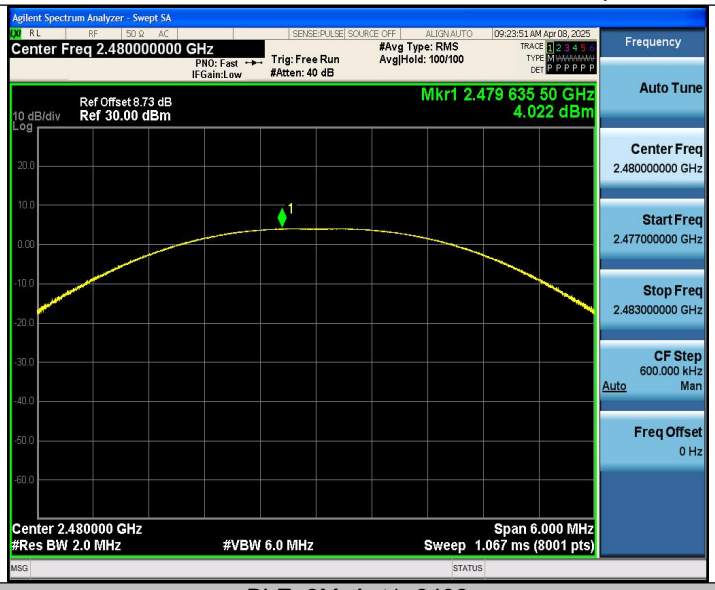


BLE_1M_Ant1_2480



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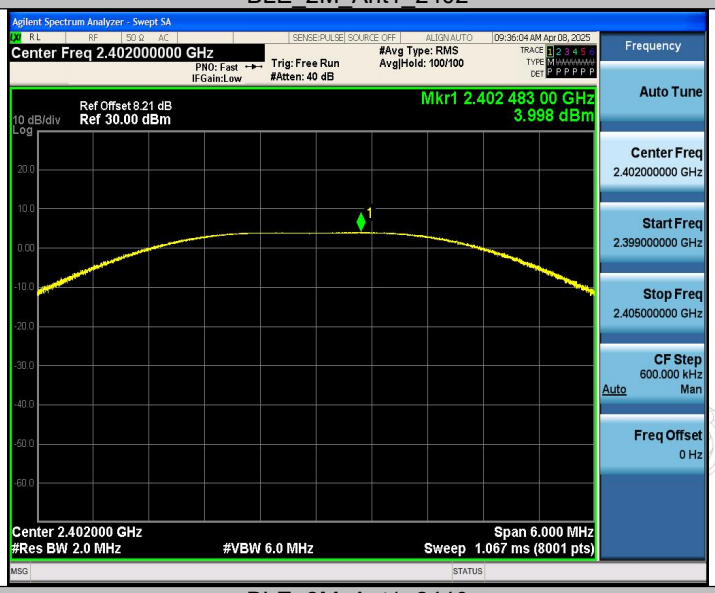

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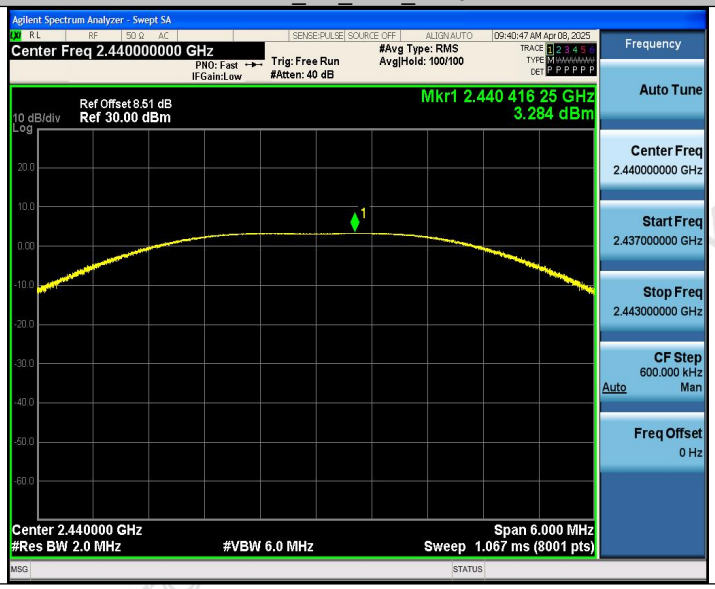
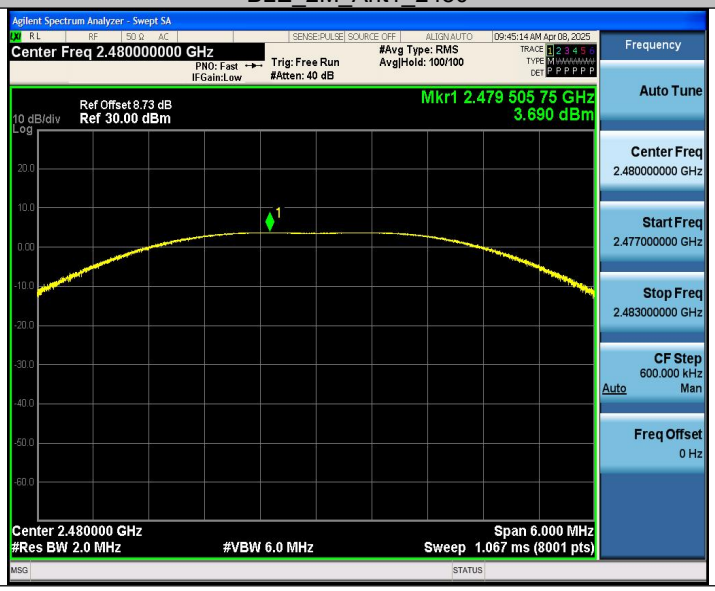


BLE_2M_Ant1_2480



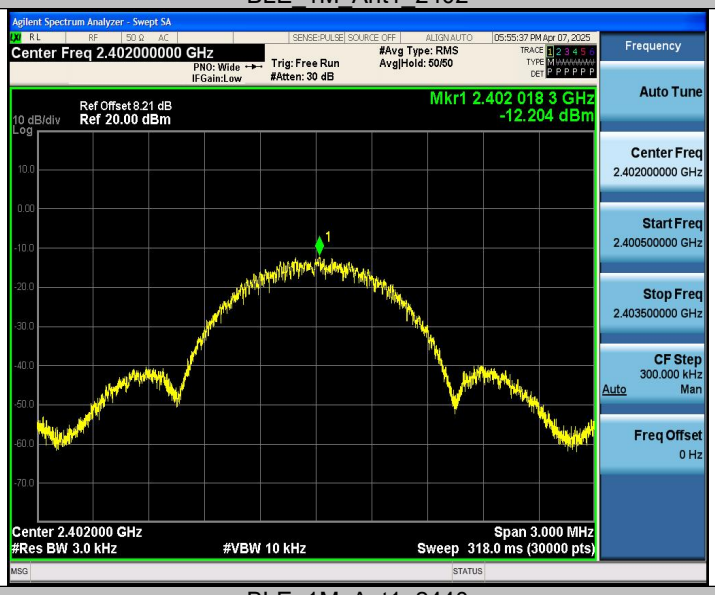
Appendix C: Maximum power spectral density

Test Result

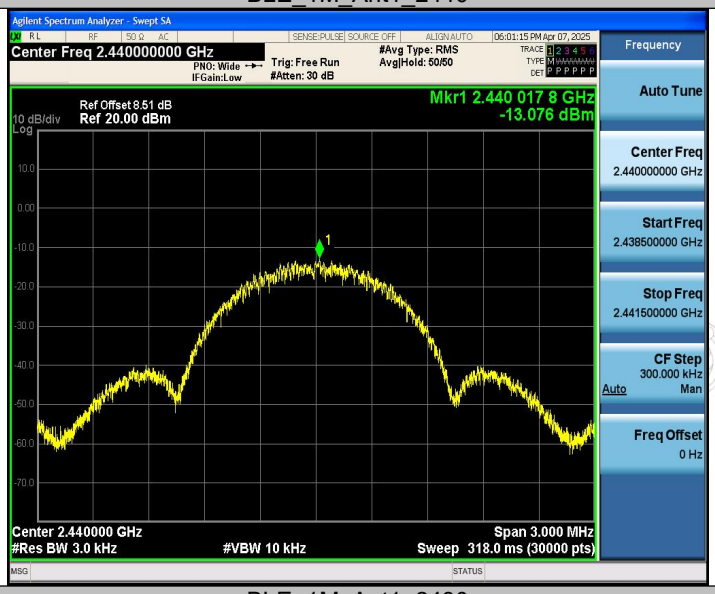
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.20	≤8.00	PASS
		2440	-13.08	≤8.00	PASS
		2480	-12.05	≤8.00	PASS
BLE_2M	Ant1	2402	-13.35	≤8.00	PASS
		2440	-14.21	≤8.00	PASS
		2480	-13.84	≤8.00	PASS

Test Graphs

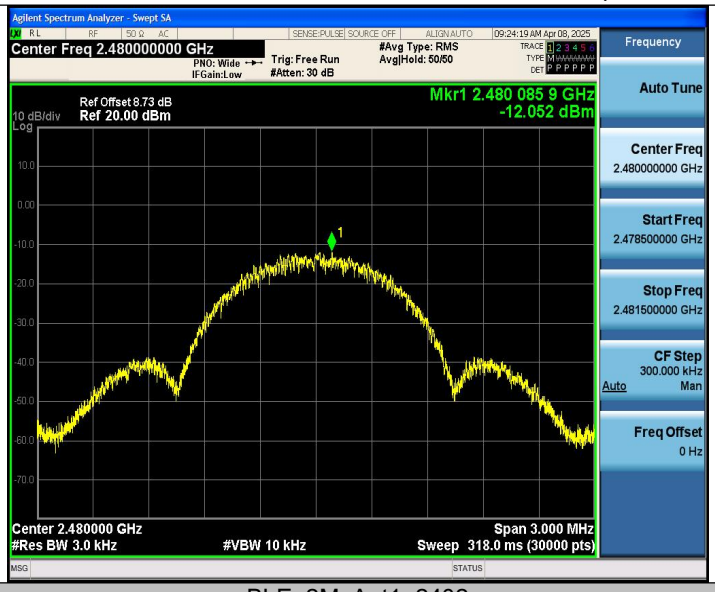
BLE_1M_Ant1_2402



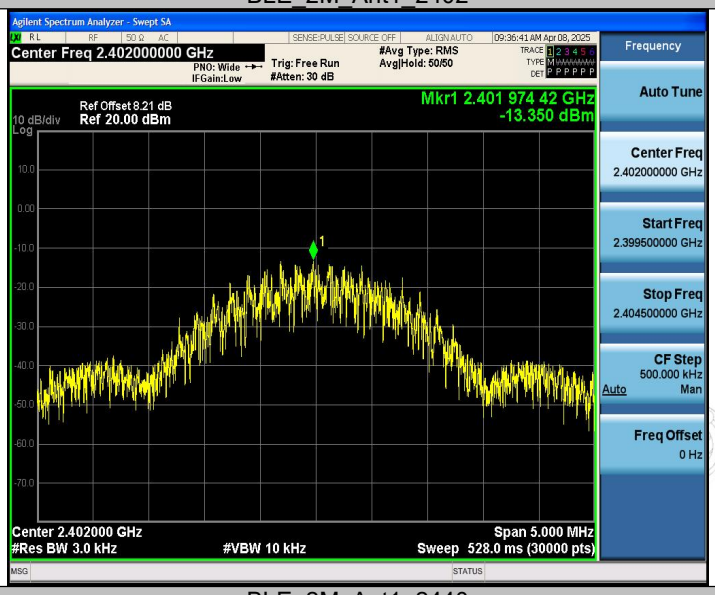
BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



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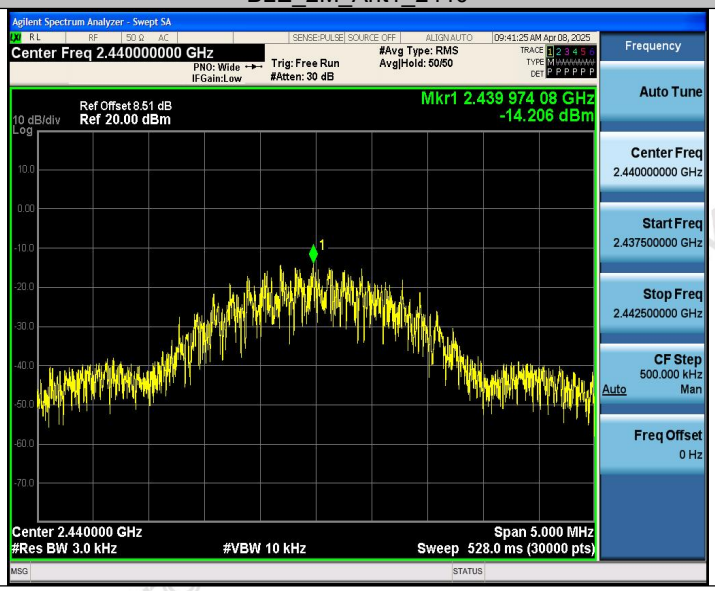
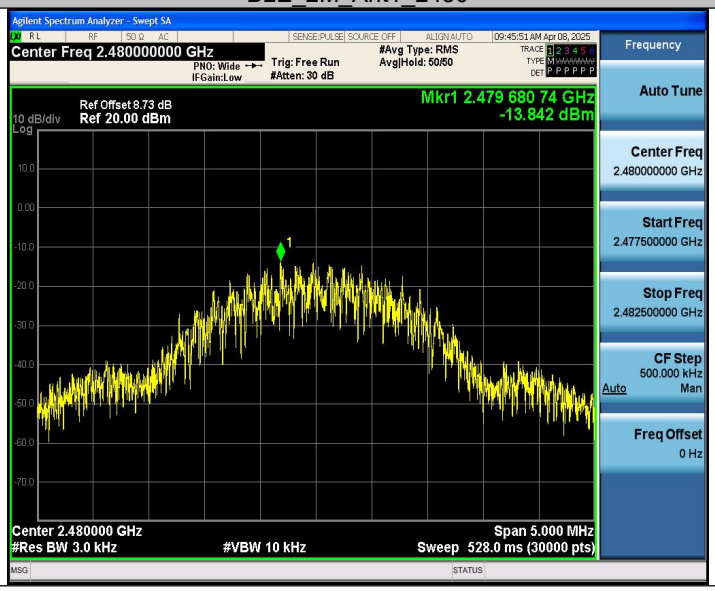
BLE_2M_Ant1_2480