



Application for Certification For a Transmitter.

WiTricity AI Tech, LLC
3322 SE Gran Park Way
Stuart, FL 34997

Golf Cart EV Power System

M/N: GWL1400

FCC ID: 2BFEF-GWL1400

REPORT # UT66100A-003

This report was prepared in accordance with the requirements of the FCC Rules and Regulations Part 2, Subpart J, 2.1033, Part 15.247, and other applicable sections of the rules as indicated herein.

Prepared By:

DNB Engineering, Inc.
1100 E Chalk Creek Road
Coalville, UT 84017

29 Jul 2026

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Paragraph numbers in this report follow the application section numbers found in the FEDERAL COMMUNICATIONS COMMISSION Rules and Regulations, Part 2, Subpart J for Certification of electronic equipment.

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REVISION HISTORY				
Rev	Pgs	Init	Description	Date
001	All	LP	Original Release	29 Jul 2026
002	Various	LP	Corrections per FCC RAI response; see RFI reply for details.	31 Aug 2026
003	Various	LP	Corrected test lab registration number; see RFI reply for details.	September 1, 2026

General information:

This report shall not be reproduced without the written approval of DNB ENGINEERING, INC. Results contained in this report relate only to the item tested.

Note: This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. government.

This is a statement required by NVLAP in our ISO/IEC17025 accreditation process. What this means is the testing performed does not carry any governmental sponsorship. The efforts of the Accrediting Agency relate only to documented processes and not the actual test conduct. It in no way diminishes the validity or value of the test results. It only assigns ultimate responsibility for the result of testing to the test laboratory, not the U.S. government.

1.0 ADMINISTRATIVE DATA

1.1 Certifications and Qualifications

I certify that DNB Engineering, Inc conducted the tests performed in order to obtain the technical data presented in this application. Also, based on the results of the enclosed data, I have concluded that the equipment tested meets or exceeds the requirements of the Rules and Regulations governing this application.

1.2 Measurement Repeatability Information

The test data presented in this report has been acquired using the guidelines set forth in FCC Part 2.1031 through 2.1057, Part 15. The test results presented in this document are valid only for the equipment identified herein under the test conditions described. Repeatability of these test results will only be achieved with identical measurement conditions. These conditions include: The same test distance, EUT Height, Measurement Site Characteristics, and the same EUT System Components. The system must have the same Interconnecting Cables arranged in identical placement to that in the test set-up, with the system and/or EUT functioning in the identical mode of operation (i.e. software and so on) as on the date of the test. Any deviation from the test conditions and the environment on the date of the test may result in measurement repeatability difficulties.

All changes made to the EUT during the course of testing as identified in this test report must be incorporated into the EUT or identical models to ensure compliance with the FCC regulations.



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Facility Manager
Coalville Facility.
DNB Engineering, Inc.
Tel. (435) 336-4433
FAX (435) 336-4436

1.3 Test Equipment List

TEST EQUIPMENT LIST - CONDUCTED EMISSIONS					
Description	Manufacturer	Model No.	Asset #	Serial #	Cal Due
LISN	Fisher Custom Communications	FCCLISN5032401	U-286	2020	03 Feb 2027
Spectrum Analyzer	Rhode & Schwarz	FSV30	U-248	101367	26 Aug 2026
TILE Software	ETS Lindgren	3.4.11.13	U-317	8112006	26 Jul 2026
Site 1 Cable - Rad	DNB	DNB	U-400B	1.2	05 Dec 2026

TEST EQUIPMENT LIST - RADIATED EMISSIONS					
Description	Manufacturer	Model No.	Asset #	Serial #	Cal Due
Pre-Amplifier	Hewlett Packard	8447D	U-068	2727A06184	26 Jul 2026
Pre-Amplifier	DNB	S-21G	U-095	U-095-1	03 Aug 2026
DRG Horn Antenna	AH Systems	SAS-571	U-071	417	13 Dec 2026
BiConiLog Antenna	ETS	3142E	U-255	154973	01 Nov 2026
Spectrum Analyzer	Rohde & Schwarz	FSV30	U-248	101367	26 Aug 2026
TILE Software	ETS- Lindgren	3.4.11.13	U-317	8112006	26 Jul 2026
Site 1 Cable - Rad	DNB	DNB	U-400B	1.2	05 Dec 2026
HF Cable	TRU Corporation	210	U-066	TRU-21B1111-080M	13 Aug 2026

TEST EQUIPMENT LIST - ANTENNA CONDUCTED					
Description	Manufacturer	Model No.	Asset #	Serial #	Cal Due
Spectrum Analyzer	Roode & Schwarz	FSV30	U-248	101367	26 Aug 2026
20dB Attenuator	Inmet	64671	U-316	U-316	25 Jul 2026

1.4 Test Summary Cross Reference

Test Item	FCC Requirement	IC Requirement	Test Method	Result
Antenna Requirement	15.203/15.247	RSS-Gen 6.8	---	Pass
Conducted Emissions (General Provisions)	15.207	RSS-Gen 8.8	ANSI C63.10-2020	Pass
Radiated Emissions (General Provisions)	15.209	RSS-Gen 8.9	ANSI C63.10-2020	Pass
Output Power (DTS)	15.247 (b,2)	RSS-247 6.3.2	ANSI C63.10-2020 Clause 11.9.1.1	Pass
Power Spectral Density	15.247 (e)	RSS-247 6.3.1 a	ANSI C63.10-2020 Clause 11.10.2	Pass
Band-edge RF Conducted	15.247 (d)	RSS-247 6.6	ANSI C63.10-2020 Clause 11.13.2	Pass
DTS Bandwidth	15.247 (a,2)	RSS-247 6.3.1 b	ANSI C63.10-2020 Clause 11.8.1	Pass
Conducted Spurious	15.247 (d)	RSS-247 6.6	ANSI C63.10-2020 Clause 11.11.3	Pass
Radiated Spurious Emissions	15.247 (d)	RSS-247 6.6	ANSI C63.10-2020 Clause 11.12.2.7	Pass
Restricted Bands	15.247 (d)	RSS-Gen 8.10	ANSI C63.10-2020 Clause 11.12.2.2	Pass

ANSI C63.10-2020 + Cor.1-2023 + C63.10a

RSS-GEN Issue 5 Feb 2021

RSS-247 Issue 4 Jul 2025

Preliminary scans were performed to determine worst case modulation, packet length, and data rates. Only worst case data has been recorded within the body of the test report.

1.5 Measurement Uncertainty

Measurement Type	Uncertainty
AC Conducted Emissions	± 1.67 dB
OATS - Radiated Emissions - Vertical Biconical (30-300MHz)	± 4.17 dB
OATS - Radiated Emissions - Horizontal Biconical (30-300MHz)	± 4.22 dB
OATS - Radiated Emissions - Vertical Log Periodic (300-1000MHz)	± 4.92 dB
OATS - Radiated Emissions - Horizontal Log Periodic (300-1000MHz)	± 4.79 dB
OATS - Radiated Emissions - Vertical DRG Horn (> 1GHz)	± 5.74 dB
OATS - Radiated Emissions - Horizontal DRG Horn (>1GHz)	± 5.80 dB
Antenna Conducted Measurements	± 1.96 dB

1.6 Test Facility Information

Test Laboratory: DNB Engineering, Inc.

Address: 1100 E. Chalk Creek Road, Coalville, UT 84017, USA

FCC Test Site Registration Number: 735001

Designation Number: US5351

Accrediting Program: National Voluntary Laboratory Accreditation Program (NVLAP)

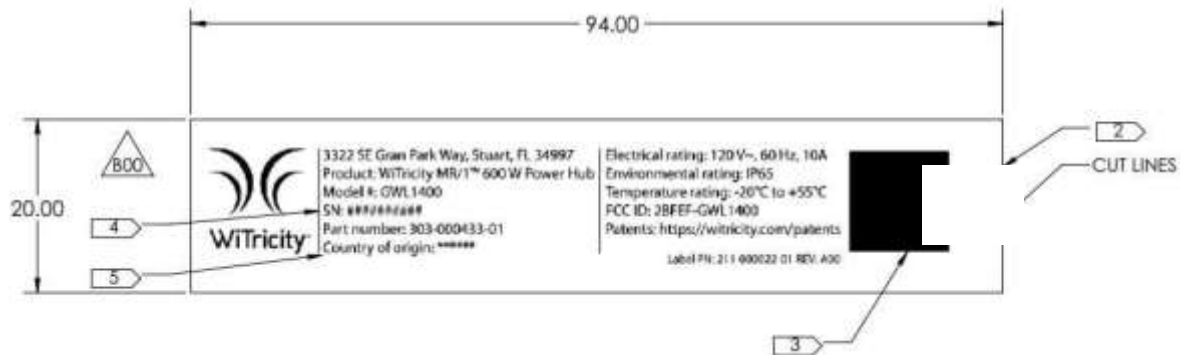
Accreditation/Registration Expires: 02/09/2027

2.1033 (b) (1) Application for Certification

Name of Applicant:	WiTricity AI Tech, LLC 3322 SE Gran Park Way Stuart, FL 34997
FRN Number:	0021816699
Name of Manufacturer :	WiTricity AI Tech, LLC 3322 SE Gran Park Way Stuart, FL 34997
Description:	Golf Cart EV Power System
Model Number(s):	GWL1400
Authorized Frequency Band:	2400 – 2483.5 MHz
EUT Frequency Band:	2402 - 2480 MHz
Rated Output Power: (Conducted)	2.26 dBm (1.68 mW)
Type of Signal:	Digital Transmission System (DTS)
Max Data Rate:	BLE - 1Mb/s
Antenna Type:	Internal - Monopole - Meander
Antenna Gain:	2.23 dBi

2.1033 (b,2) FCC Identifier

Model Number: GWL1400
FCC ID: 2BFEF-GWL1400



NOTES:

1. MATERIAL: 3M 7872 - THERMAL TRANSFER GLOSS POLYESTER.
3M 7733FL - UV RESISTANT POLYESTER OVERLAMINATING FILM.
2. ARTWORK IS DEFINED IN LATEST REVISION OF POWER-HUB-PRODUCT-LABEL-3-26-FINAL.AI FILE.
3. DATAMATRIX BARCODE TO FOLLOW FORMAT "SN,PARTNUMBER".
4. SERIAL NUMBER TO FOLLOW TYPE 6 SERIALIZED FORMAT IN 207-000251-XX PART TRACEABILITY AND MARKING DOCUMENT.
5. COUNTRY OF ORIGIN SHALL BE POPULATED WITH THE COUNTRY FROM WHERE THE PRODUCT IS MANUFACTURED.
6. LABEL PEEL STRENGTH, SHEAR STRENGTH, SUN AND FADING RESISTANCE, WEAR RESISTANCE, MOISTURE AND HEAT AGING RESISTANCE, SALT SPRAY RESISTANCE, BACTERIA RESISTANCE AND ALL OTHER PROPERTIES SHOULD MEET GB/T 25978-2018; THE TEST METHOD IS GB/T 13306.
7. HEAT RESISTANCE: 180 °C DOES NOT BURN.
8. ALL MATERIALS AND PROCESSES IN THIS DRAWING SHALL BE DECLARED COMPLIANT TO THE EU ROHS DIRECTIVE 2011/65/EU AS AMENDED BY 2015/863/EU & 2017/2102/EU.
9. NO OIL, CRACKS, HANDWRITING BREAKPOINTS, BLURRED HANDWRITING, WRINKLES, PROHIBITED SUBSTANCES (LEAD, MERCURY, ARSENIC, CHROMIUM, CADMIUM, FORMALDEHYDE, ASBESTOS, PBBs, PBDEs, ETC.).
10. LABEL MUST MEET UL 969 REQUIREMENT.

2.1033 (b,3)	Installation and Operating Instructions -	Supplied separately.
2.1033 (b,4)	Brief Description of Circuit Function -	Supplied separately.
2.1033 (b,5)	Block Diagram -	Supplied separately.
2.1033 (b,7)	Equipment Photographs -	Supplied separately.

2.1033 (b,6) Report of Measurements

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Pass - Antenna gain is equal to or less than 2.23dBi

Pass - Antenna is an internal meander antenna (Monopole)

Test Procedure: As specified in ANSI C63.10-2013:2020

To measure conducted emissions, the EUT was set upon a wooden table in the shielded enclosure. AC power was fed into the EUT from the Artificial Mains Network. With the Artificial Mains Network connected to an Rhode & Schwarz FSV Signal and Spectrum Analyzer, and using Personal Computer with TILES Measurement Software, the spectrum was searched from 0.15 - 30 MHz for emissions emanating from the EUT.

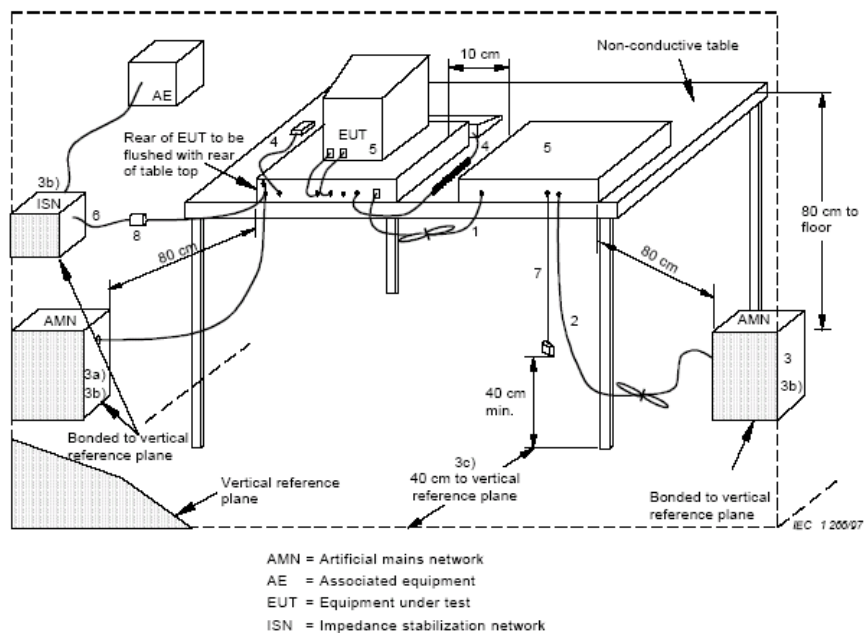
Frequency of emission (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

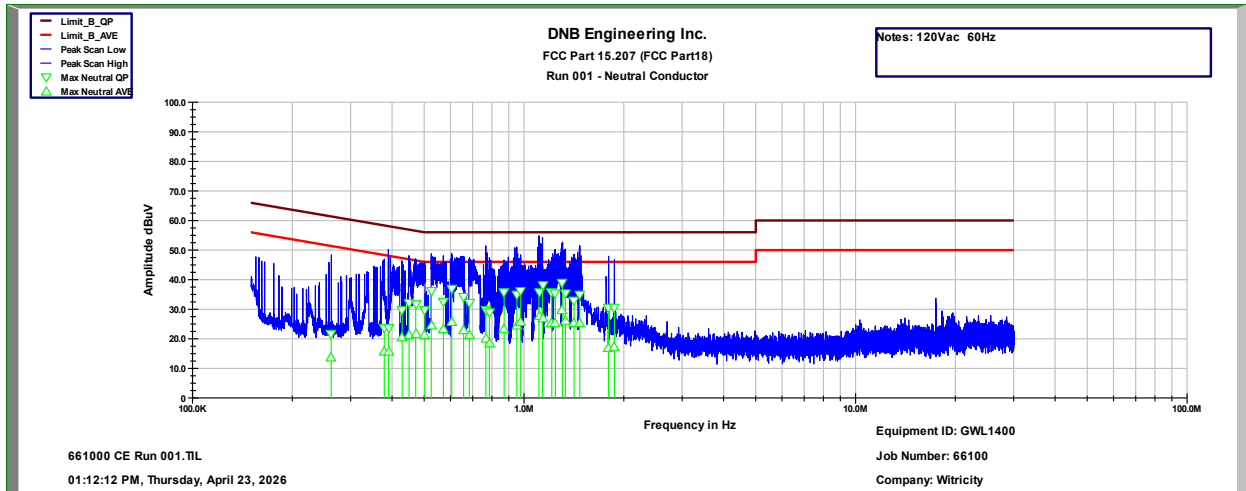
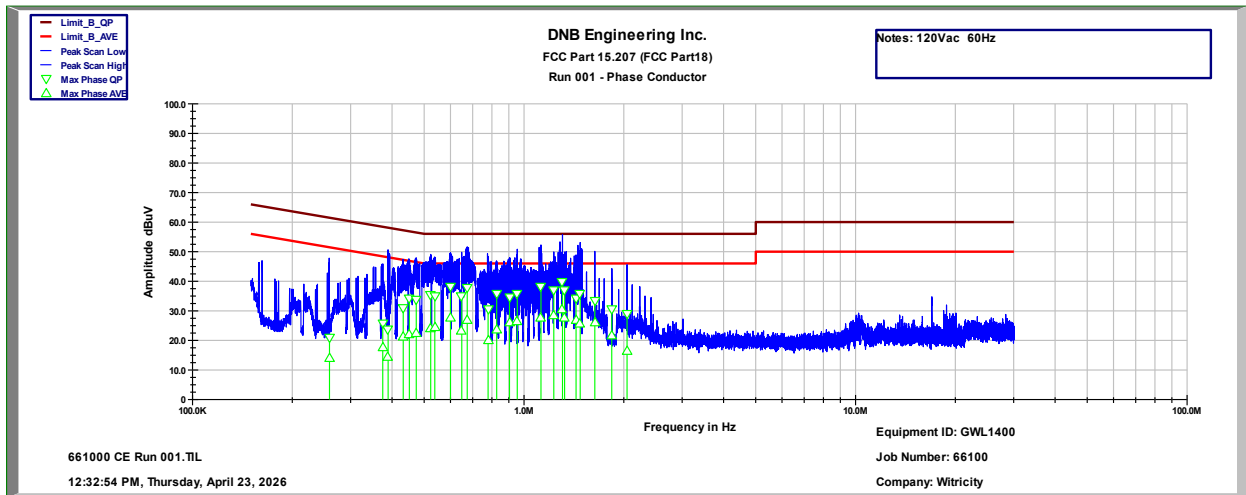
EUT operating conditions:

The software provided by the client to enable the EUT to transmit continuously.

Test Set Up:



		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Conducted Emissions (General)	
DNB Job Number:	66100	Date:	23 Apr 2026	Specification [X] 15.207 [X] ANSI C63.10-2020	
Customer:	WiTricity				
Model Number:	GWL1400				
Description:	Golf Cart EV Power System				
EUT is in conformance with FCC 15.207		☒ YES	☐ NO	Signed	CL Payne





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Conducted Emissions (General)

CONDUCTED EMISSIONS – PHASE LEAD											
Freq. (MHz)	Meas'd (dBuV)	Atten. Factors (dB)	LISN Factors (dB)	Cable Factors (dB)	Total Factors (dB)	Total (dBuV)	Limit (dBuV)	Delta (dB)	Limit Type AVE,QP	Line	Meas. Type AVE, QP, Peak
0.259	11.20	9.59	0.16	0.07	9.81	21.01	63.00	-41.99	QP	L1	QP
0.259	4.04	9.59	0.16	0.07	9.81	13.85	53.00	-39.15	AVE	L1	AVE
0.375	15.71	9.91	0.13	0.03	10.07	25.78	60.00	-34.23	QP	L1	QP
0.375	7.45	9.91	0.13	0.03	10.07	17.52	50.00	-32.49	AVE	L1	AVE
0.389	13.68	9.97	0.12	0.02	10.11	23.79	59.00	-35.21	QP	L1	QP
0.389	4.22	9.97	0.12	0.02	10.11	14.33	49.00	-34.67	AVE	L1	AVE
0.432	20.87	10.07	0.11	0.04	10.21	31.08	58.00	-26.92	QP	L1	QP
0.432	10.96	10.07	0.11	0.04	10.21	21.17	48.00	-26.83	AVE	L1	AVE
0.451	23.75	10.10	0.10	0.05	10.25	34.00	57.00	-23.00	QP	L1	QP
0.451	11.77	10.10	0.10	0.05	10.25	22.02	47.00	-24.98	AVE	L1	AVE
0.473	23.23	10.13	0.09	0.07	10.29	33.52	57.00	-23.48	QP	L1	QP
0.473	12.16	10.13	0.09	0.07	10.29	22.45	47.00	-24.55	AVE	L1	AVE
0.523	24.97	10.19	0.08	0.12	10.39	35.36	56.00	-20.64	QP	L1	QP
0.523	13.85	10.19	0.08	0.12	10.39	24.24	46.00	-21.76	AVE	L1	AVE
0.538	24.37	10.20	0.08	0.14	10.42	34.79	56.00	-21.21	QP	L1	QP
0.538	13.99	10.20	0.08	0.14	10.42	24.41	46.00	-21.59	AVE	L1	AVE
0.600	27.48	10.26	0.08	0.22	10.56	38.04	56.00	-17.96	QP	L1	QP
0.600	17.02	10.26	0.08	0.22	10.56	27.58	46.00	-18.42	AVE	L1	AVE
0.649	24.15	10.27	0.08	0.29	10.64	34.79	56.00	-21.21	QP	L1	QP
0.649	12.57	10.27	0.08	0.29	10.64	23.21	46.00	-22.79	AVE	L1	AVE
0.674	26.87	10.28	0.08	0.33	10.69	37.56	56.00	-18.44	QP	L1	QP
0.674	16.35	10.28	0.08	0.33	10.69	27.04	46.00	-18.96	AVE	L1	AVE
0.779	19.76	10.27	0.08	0.48	10.83	30.59	56.00	-25.41	QP	L1	QP
0.779	9.19	10.27	0.08	0.48	10.83	20.02	46.00	-25.98	AVE	L1	AVE
0.827	24.85	10.25	0.07	0.54	10.86	35.71	56.00	-20.29	QP	L1	QP
0.827	12.78	10.25	0.07	0.54	10.86	23.64	46.00	-22.36	AVE	L1	AVE
0.904	23.83	10.20	0.07	0.63	10.90	34.73	56.00	-21.27	QP	L1	QP
0.904	15.04	10.20	0.07	0.63	10.90	25.94	46.00	-20.06	AVE	L1	AVE
0.954	24.80	10.15	0.07	0.68	10.90	35.70	56.00	-20.30	QP	L1	QP
0.954	15.76	10.15	0.07	0.68	10.90	26.66	46.00	-19.34	AVE	L1	AVE
1.125	27.50	9.96	0.07	0.71	10.74	38.24	56.00	-17.76	QP	L1	QP
1.125	16.81	9.96	0.07	0.71	10.74	27.55	46.00	-18.45	AVE	L1	AVE
1.229	26.45	9.84	0.07	0.70	10.62	37.07	56.00	-18.93	QP	L1	QP
1.229	17.95	9.84	0.07	0.70	10.62	28.57	46.00	-17.43	AVE	L1	AVE
1.306	29.27	9.76	0.07	0.70	10.53	39.80	56.00	-16.20	QP	L1	QP
1.306	19.98	9.76	0.07	0.70	10.53	30.51	46.00	-15.49	AVE	L1	AVE
1.325	26.57	9.74	0.07	0.69	10.50	37.07	56.00	-18.93	QP	L1	QP
1.325	17.38	9.74	0.07	0.69	10.50	27.88	46.00	-18.12	AVE	L1	AVE
1.435	23.68	9.61	0.07	0.69	10.37	34.05	56.00	-21.95	QP	L1	QP
1.435	16.34	9.61	0.07	0.69	10.37	26.71	46.00	-19.29	AVE	L1	AVE
1.477	25.26	9.56	0.07	0.68	10.32	35.58	56.00	-20.42	QP	L1	QP
1.477	15.21	9.56	0.07	0.68	10.32	25.53	46.00	-20.47	AVE	L1	AVE
1.635	23.29	9.38	0.08	0.67	10.13	33.42	56.00	-22.58	QP	L1	QP
1.635	15.84	9.38	0.08	0.67	10.13	25.97	46.00	-20.03	AVE	L1	AVE
1.839	20.73	9.15	0.08	0.66	9.89	30.62	56.00	-25.38	QP	L1	QP
1.839	11.68	9.15	0.08	0.66	9.89	21.57	46.00	-24.43	AVE	L1	AVE
2.045	19.33	9.00	0.08	0.64	9.71	29.04	56.00	-26.96	QP	L1	QP
2.045	6.85	9.00	0.08	0.64	9.71	16.56	46.00	-29.44	AVE	L1	AVE



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Conducted Emissions (General)

CONDUCTED EMISSIONS – NEUTRAL LEAD											
Freq. (MHz)	Meas'd (dBuV)	Atten. Factors (dB)	LISN Factors (dB)	Cable Factors (dB)	Total Factors (dB)	Total (dBuV)	Limit (dBuV)	Delta (dB)	Limit Type AVE,QP	Line	Meas. Type AVE, QP, Peak
0.262	11.71	9.59	0.14	0.07	9.79	21.50	63.00	-41.50	QP	L2	QP
0.262	3.98	9.59	0.14	0.07	9.79	13.77	53.00	-39.23	AVE	L2	AVE
0.379	13.76	9.93	0.09	0.02	10.04	23.80	59.00	-35.20	QP	L2	QP
0.379	5.50	9.93	0.09	0.02	10.04	15.54	49.00	-33.46	AVE	L2	AVE
0.390	13.68	9.98	0.08	0.02	10.08	23.76	59.00	-35.24	QP	L2	QP
0.390	5.38	9.98	0.08	0.02	10.08	15.46	49.00	-33.54	AVE	L2	AVE
0.429	19.64	10.06	0.08	0.03	10.18	29.82	58.00	-28.18	QP	L2	QP
0.429	10.40	10.06	0.08	0.03	10.18	20.58	48.00	-27.42	AVE	L2	AVE
0.450	22.08	10.09	0.08	0.05	10.22	32.30	57.00	-24.70	QP	L2	QP
0.450	11.22	10.09	0.08	0.05	10.22	21.44	47.00	-25.56	AVE	L2	AVE
0.471	21.53	10.13	0.08	0.07	10.27	31.80	57.00	-25.20	QP	L2	QP
0.471	11.56	10.13	0.08	0.07	10.27	21.83	47.00	-25.17	AVE	L2	AVE
0.502	19.50	10.17	0.08	0.09	10.34	29.84	56.00	-26.16	QP	L2	QP
0.502	10.80	10.17	0.08	0.09	10.34	21.14	46.00	-24.86	AVE	L2	AVE
0.525	25.59	10.19	0.08	0.12	10.39	35.98	56.00	-20.02	QP	L2	QP
0.525	14.16	10.19	0.08	0.12	10.39	24.55	46.00	-21.45	AVE	L2	AVE
0.571	22.04	10.23	0.08	0.18	10.49	32.53	56.00	-23.47	QP	L2	QP
0.571	12.77	10.23	0.08	0.18	10.49	23.26	46.00	-22.74	AVE	L2	AVE
0.605	26.57	10.26	0.08	0.23	10.56	37.13	56.00	-18.87	QP	L2	QP
0.605	15.23	10.26	0.08	0.23	10.56	25.79	46.00	-20.21	AVE	L2	AVE
0.657	23.50	10.28	0.07	0.30	10.65	34.15	56.00	-21.85	QP	L2	QP
0.657	12.08	10.28	0.07	0.30	10.65	22.73	46.00	-23.27	AVE	L2	AVE
0.684	21.28	10.28	0.07	0.34	10.69	31.97	56.00	-24.03	QP	L2	QP
0.684	10.76	10.28	0.07	0.34	10.69	21.45	46.00	-24.55	AVE	L2	AVE
0.767	18.74	10.27	0.07	0.46	10.80	29.54	56.00	-26.46	QP	L2	QP
0.767	9.31	10.27	0.07	0.46	10.80	20.11	46.00	-25.89	AVE	L2	AVE
0.786	18.27	10.27	0.07	0.49	10.83	29.10	56.00	-26.90	QP	L2	QP
0.786	7.49	10.27	0.07	0.49	10.83	18.32	46.00	-27.68	AVE	L2	AVE
0.871	24.80	10.22	0.07	0.59	10.88	35.68	56.00	-20.32	QP	L2	QP
0.871	12.30	10.22	0.07	0.59	10.88	23.18	46.00	-22.82	AVE	L2	AVE
0.951	23.88	10.15	0.07	0.67	10.90	34.78	56.00	-21.22	QP	L2	QP
0.951	13.52	10.15	0.07	0.67	10.90	24.42	46.00	-21.58	AVE	L2	AVE
0.977	25.42	10.13	0.07	0.70	10.89	36.31	56.00	-19.69	QP	L2	QP
0.977	14.89	10.13	0.07	0.70	10.89	25.78	46.00	-20.22	AVE	L2	AVE
1.109	25.06	9.98	0.07	0.71	10.76	35.82	56.00	-20.18	QP	L2	QP
1.109	16.82	9.98	0.07	0.71	10.76	27.58	46.00	-18.42	AVE	L2	AVE
1.137	27.52	9.95	0.07	0.71	10.73	38.25	56.00	-17.75	QP	L2	QP
1.137	16.21	9.95	0.07	0.71	10.73	26.94	46.00	-19.06	AVE	L2	AVE
1.212	24.96	9.86	0.07	0.70	10.64	35.60	56.00	-20.40	QP	L2	QP
1.212	14.45	9.86	0.07	0.70	10.64	25.09	46.00	-20.91	AVE	L2	AVE
1.243	24.54	9.83	0.07	0.70	10.60	35.14	56.00	-20.86	QP	L2	QP
1.243	14.48	9.83	0.07	0.70	10.60	25.08	46.00	-20.92	AVE	L2	AVE
1.306	28.39	9.76	0.07	0.70	10.53	38.92	56.00	-17.08	QP	L2	QP
1.306	19.21	9.76	0.07	0.70	10.53	29.74	46.00	-16.26	AVE	L2	AVE
1.333	24.89	9.73	0.07	0.69	10.49	35.38	56.00	-20.62	QP	L2	QP
1.333	15.69	9.73	0.07	0.69	10.49	26.18	46.00	-19.82	AVE	L2	AVE
1.415	22.51	9.63	0.07	0.69	10.40	32.91	56.00	-23.09	QP	L2	QP
1.415	15.00	9.63	0.07	0.69	10.40	25.40	46.00	-20.60	AVE	L2	AVE
1.473	24.68	9.57	0.07	0.68	10.33	35.01	56.00	-20.99	QP	L2	QP

CONDUCTED EMISSIONS – NEUTRAL LEAD											
Freq. (MHz)	Meas'd (dBuV)	Atten. Factors (dB)	LISN Factors (dB)	Cable Factors (dB)	Total Factors (dB)	Total (dBuV)	Limit (dBuV)	Delta (dB)	Limit Type AVE,QP	Line	Meas. Type AVE, QP, Peak
1.473	14.93	9.57	0.07	0.68	10.33	25.26	46.00	-20.74	AVE	L2	AVE
1.799	20.77	9.20	0.08	0.66	9.93	30.70	56.00	-25.30	QP	L2	QP
1.799	6.82	9.20	0.08	0.66	9.93	16.75	46.00	-29.25	AVE	L2	AVE
1.873	20.73	9.11	0.08	0.66	9.85	30.58	56.00	-25.42	QP	L2	QP
1.873	7.27	9.11	0.08	0.66	9.85	17.12	46.00	-28.88	AVE	L2	AVE

Radiated Emissions (General Provisions)

The EUT was measured on an open area test site (OATS).

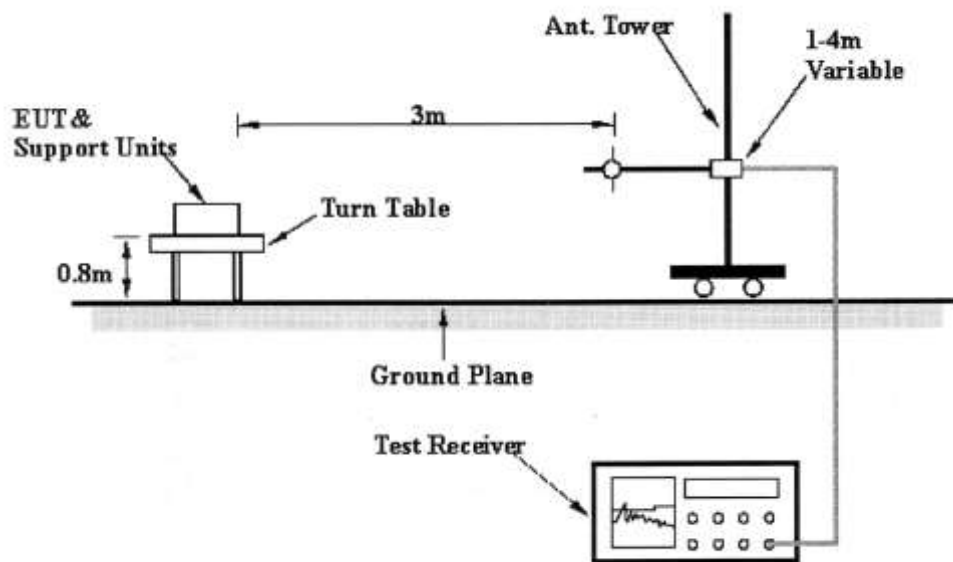
[illegible]

the antenna) shall be less than 20 % of the measuring distance.

- no extraneous conducting objects having any dimension in excess of a quarter wavelength of the highest frequency tested shall be in the immediate vicinity of the site;
- all cables shall be as short as possible; as much of the cables as possible shall be on the ground plane or preferably below; and the low impedance cables shall be screened.
- EUT was positioned in three orthogonal axis - only the worst case data (X-Axis) has been recorded

The EUT shall be placed upon a non-conductive table (wooden for below 1GHz and styrene above 1GHz) 0.80 meters above the ground plane for frequencies from 30 to 1000MHz and 1.5 meters above the ground plane above 1 GHz and shall be placed in the “worst case” transmitting mode. The EUT shall be rotated 360 degrees to find the azimuth maxima. The receive antenna shall then be raised and lowered between 1 to 4 meters to find the maximum signal emanating from the EUT. This signal strength is then recorded on the data sheets.

Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measurement Distance (meters)
.009 - 0.490	2400/F(kHz)	20*(Log ₁₀ (2400/F(kHz)))	300
0.490 - 1.705	24000/F(kHz)	20*(Log ₁₀ (24000/F(kHz)))	30
1.705 - 30.0	30	29.5	30
30 - 88	100	40.0	3
88 - 216	150	43.5	3
216 - 960	200	46.0	3
Above 960	500	54.0	3



		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Radiated Emissions (General)								
DNB Job Number:		66100		Date:		10 Jun 2026		Specification [X] 15.209 [X] ANSI C63.10-2020				
Customer:		WiTricity										
Model Number:		GWL1400										
Description:		Golf Cart EV Power System										
EUT is in conformance with FCC 15.209				☒	YES	☐	NO	Signed		CL Payne		
Radiated Emissions												
FREQ (Mhz)	S/A Reading (dBuV/m)	Correction Factors (dB)			dBuV/m			Positions				
		Amp	Cbl	Ant	Corr	Lim	Delta	Typ	Tbl	Pl	Hgt	Result
77.842	41.05	26.61	1.36	10.99	26.78	40.01	-13.23	QP	83	Horz	2.00	Pass
96.134	41.32	26.52	1.50	11.86	28.16	43.51	-15.35	QP	267	Horz	2.00	Pass
91.587	41.11	26.65	1.50	11.22	27.18	43.51	-16.33	QP	0	Vert	1.00	Pass
195.591	40.09	26.00	2.10	14.46	30.65	43.51	-12.86	QP	0	Vert	1.00	Pass
42.467	31.46	26.70	0.95	13.27	18.97	40.01	-21.03	QP	0	Vert	1.00	Pass
93.450	38.89	26.60	1.50	11.48	25.28	43.51	-18.23	QP	85	Horz	2.01	Pass

Note: No significant readings above 200MHz were observed.

11.9.1 Maximum peak conducted output power**11.9.1.1 RBW ; ; DTS bandwidth**

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW ; ; DTS bandwidth.
- b) Set VBW ; ; $[3 \times \text{RBW}]$.
- c) Set span ; ; $[3 \times \text{RBW}]$.
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

Requirement: FCC Part 15.247 Clause (b,3)

15.247 Operation within the bands 2400-2483.5 MHz.

- (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following:
- (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.

Limit : 1 watt or 30dBm

Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement ☐ 1 Watt or 30dBm

Tech: CL Payne

Data Rate 1Mb/s

Low Channel: 2402 MHz

Power: 2.26 dBm

Result: Pass



Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement ☐ 1 Watt or 30dBm

Tech: CL Payne

Data Rate 1Mb/s

Mid Channel: 2440 MHz

Power: 2.04 dBm

Result: Pass



Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement ☐ 1 Watt or 30dBm

Tech: CL Payne

Data Rate 1Mb/s

High Channel: 2480 MHz

Power: 1.17 dBm

Result: Pass



Clause 11.10.2 Method PKPSD (peak PSD)

The following procedure shall be used if the maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- a) Set analyzer center frequency to DTS channel center frequency
- b) Set the span to 1.5 times the DTS bandwidth
- c) Set the RBW to 3 kHz □ RBW □ 100 kHz
- d) Set the VBW ; ; [3 x RBW]
- e) Detector = peak
- f) Sweep time = auto couple
- g) Trace mode = max hold
- h) Allow trace to fully stabilize
- i) Use the peak marker function to determine the maximum amplitude level within the RBW
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat
- k) Submit plots

Requirement: FCC Part 15.247 Clause (e)

15.247 Power Spectral Density.

- (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.

Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement ☐ 8dBm

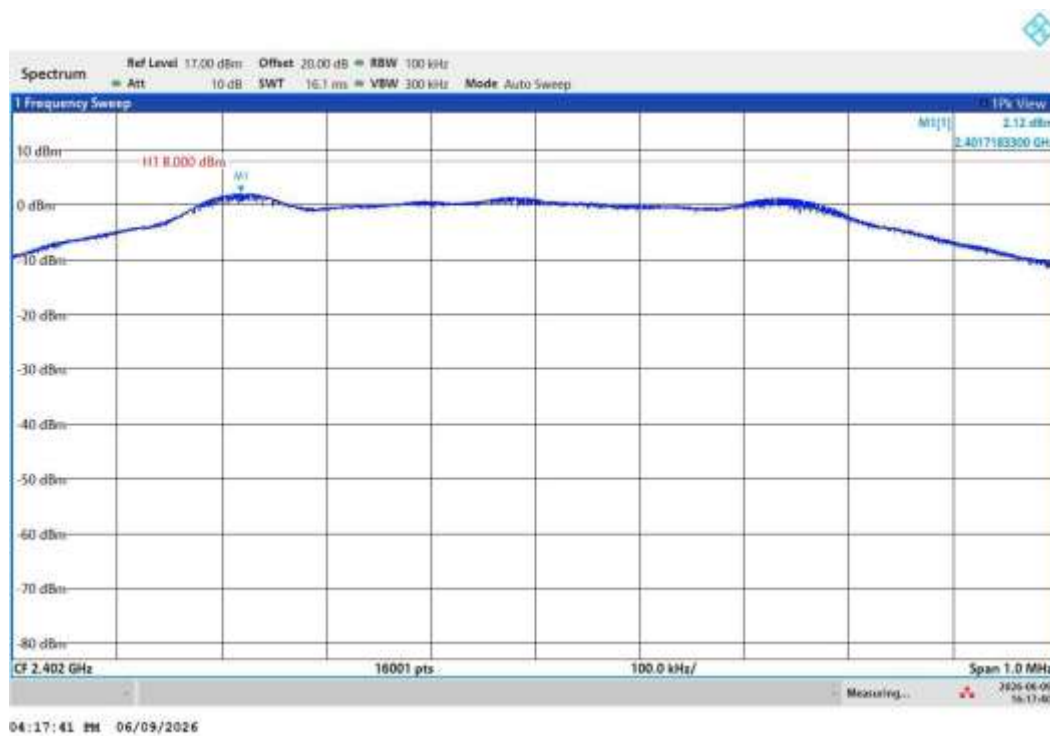
Tech: CL Payne

Data Rate 1Mb/s

Low Channel: 2402 MHz

Power: 2.12 dBm

Result: Pass



Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement ☐ 8dBm

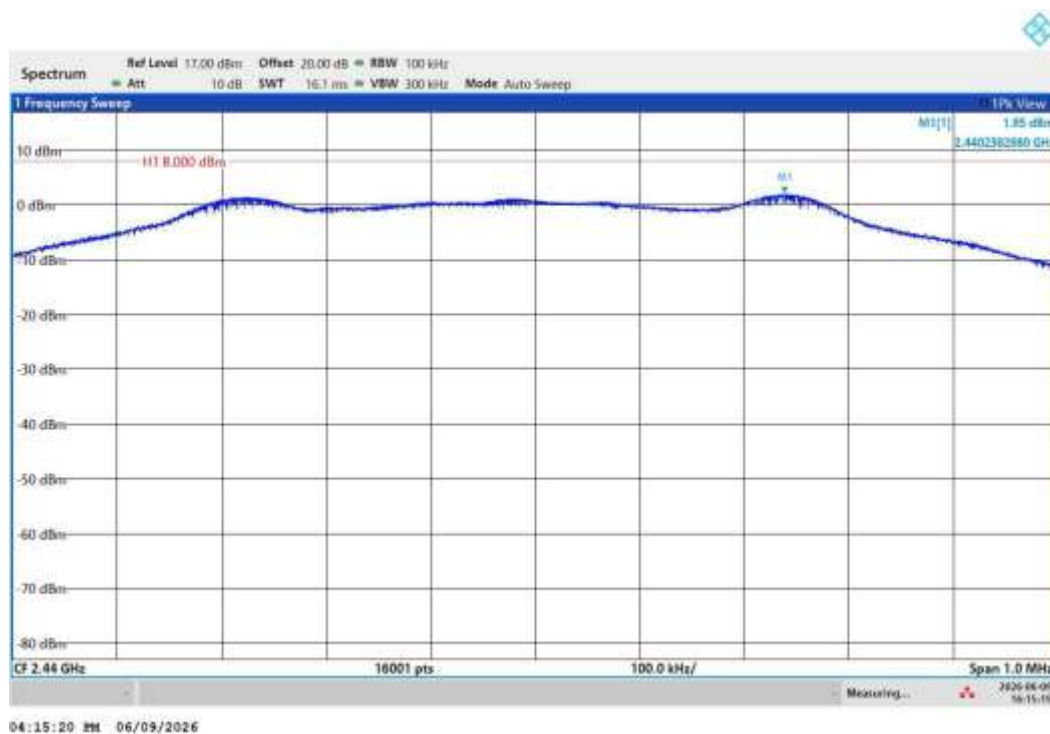
Tech: CL Payne

Data Rate 1Mb/s

Mid Channel: 2440 MHz

Power: 1.95 dBm

Result: Pass



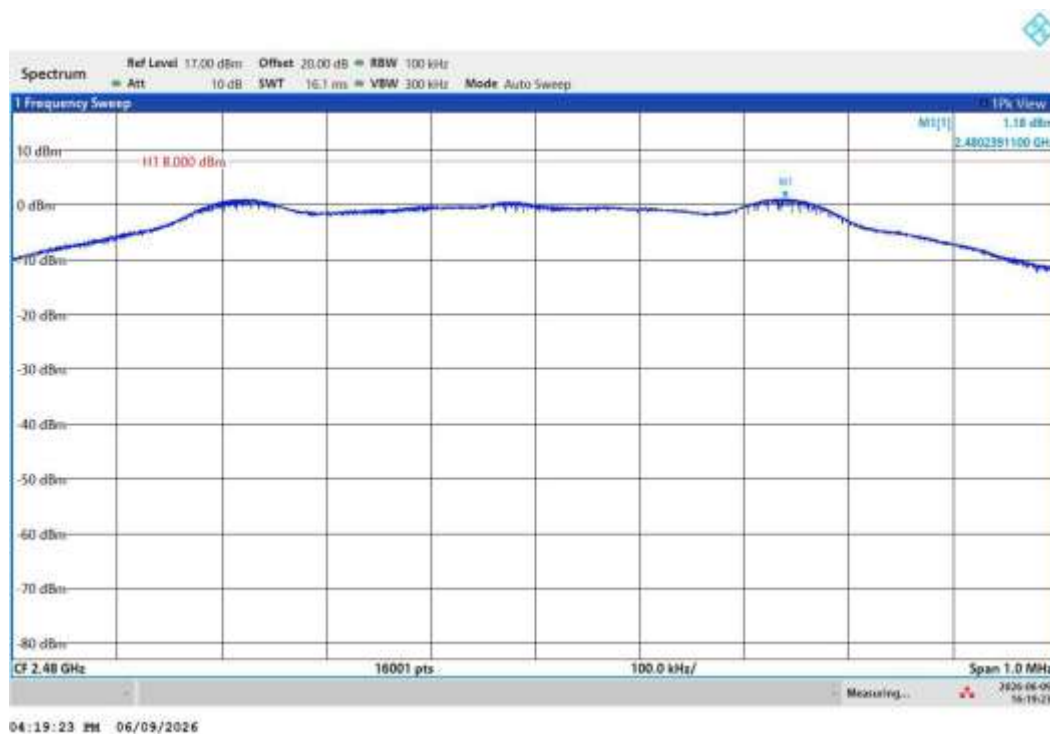
DNB Job: 66100

Model No: GWL1400

Tech: CL Payne

Data Rate	1Mb/s
-----------	-------

Result: Pass



For band-edge measurements, use the band-edge procedure in 6.10. Band-edge measurements shall be tested both on single channels, and with the EUT hopping.

6.10 Band-edge testing

The following procedure shall be used when band-edge measurements are required.

6.10.1 Band-edge data reporting requirements

These reporting requirements are applicable to all devices for which band-edge measurements are required. On each operating frequency measured, band-edge emissions shall be reported by providing plots of the measuring instrument display. The axes, the scale units per division, and the limit shall be clearly labeled in the test report. Tabular data are not suitable for reporting band-edge emissions.

6.10.4 Authorized-band band-edge measurements (relative method)

These procedures are applicable for determining compliance at authorized-band band-edges where the requirements are expressed as a value relative to the in-band signal level.

For devices that support frequency hopping, this test sequence shall be performed twice: once with the hopping function turned OFF and then repeated with the hopping function turned ON.

- a) Connect the EMI receiver or spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described in step e) (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).
- b) Set the EUT to the lowest frequency channel (for the hopping on test, the hopping sequence shall include the lowest frequency channel).
- c) Set the EUT to operate at maximum output power and 100% duty cycle, or equivalent “normal mode of operation”.
- d) Blank
- e) Perform the test as follows:
 - 1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

15.247 (d) Band-edge RF Conducted (*continued*)

- 2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW/RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2.
 - 3) Attenuation: Auto (at least 10 dB preferred).
 - 4) Sweep time: Coupled.
 - 5) Resolution bandwidth: 100 kHz
 - 6) Video bandwidth: 300 kHz
 - 7) Detector: Peak.
 - 8) Trace: Max hold.
- f) Allow the trace to stabilize. For the test with the hopping function turned ON, this can take several minutes to achieve a reasonable probability of intercepting any emissions due to oscillator overshoot.
- g) Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.
- h) Repeat step c) through step e) for every applicable modulation.
- i) Set the EUT to the highest frequency channel (for the hopping on test, the hopping sequence shall include the highest frequency channel) and repeat step c) through step d).
- j) The band-edge measurement shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Requirement: FCC Part 15.247 Clause (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.

Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

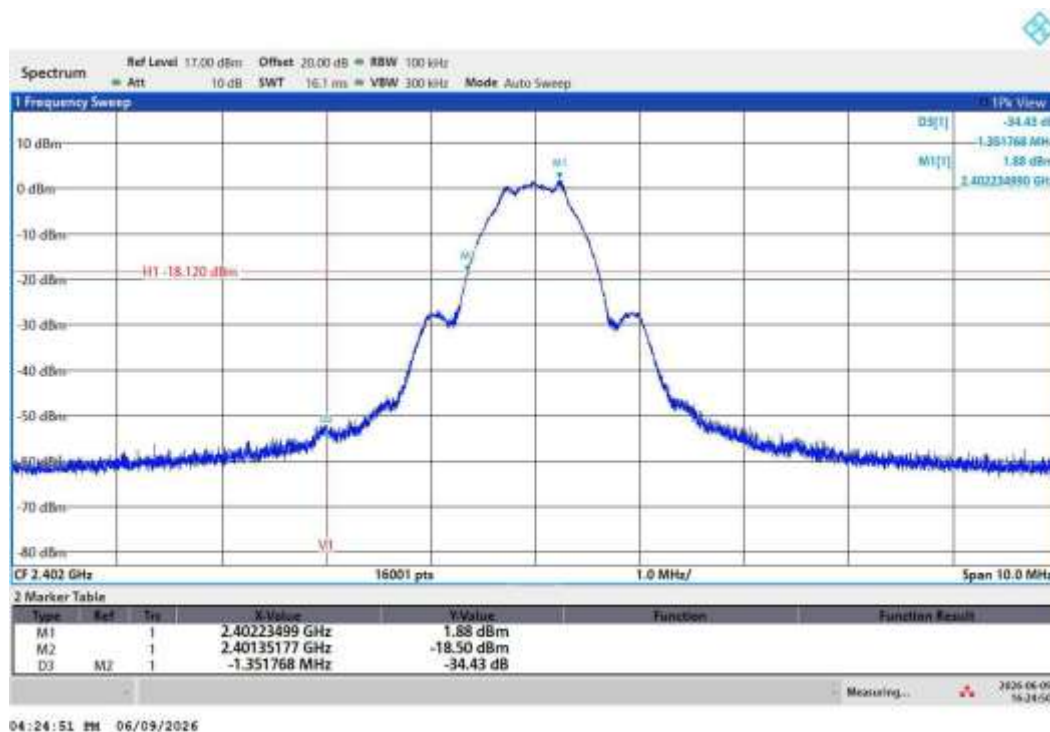
Requirement: Band-Edge Compliance (DTS)

Tech: CL Payne

Low Channel: 2402 MHz

Data Rate: 1Mb/s

Result: Pass



Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

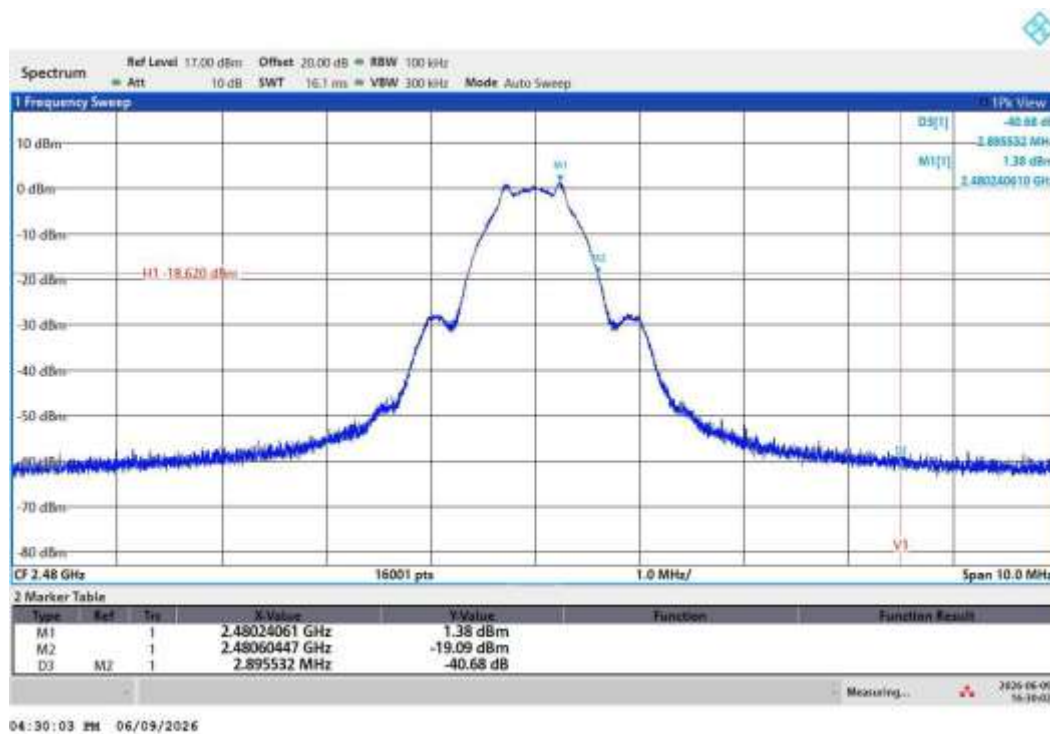
Requirement: Band-Edge Compliance (DTS)

Tech: CL Payne

High Channel: 2480 Mhz

Data Rate: 1Mb/s

Result: Pass



DTS bandwidth measurement procedure

- a) Set RBW = 100 kHz
- b) Set the VBW ; ; [3 x RBW]
 - * per ANSI C63.10-2020 clause 6.9.2 Set the span to 2 to 5 times the OBW
- c) Detector = peak
- d) Trace mode = max hold
- e) Sweep = auto couple
- f) Allow 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 6dB relative to the maximum level measured in the fundamental emission.
- h) Submit this plot(s).

Requirement: FCC Part 15.247 Clause (a,2)

The 6 dB DTS bandwidth shall be greater than 500 kHz.

Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: 6dB Bandwidth greater than 500kHz

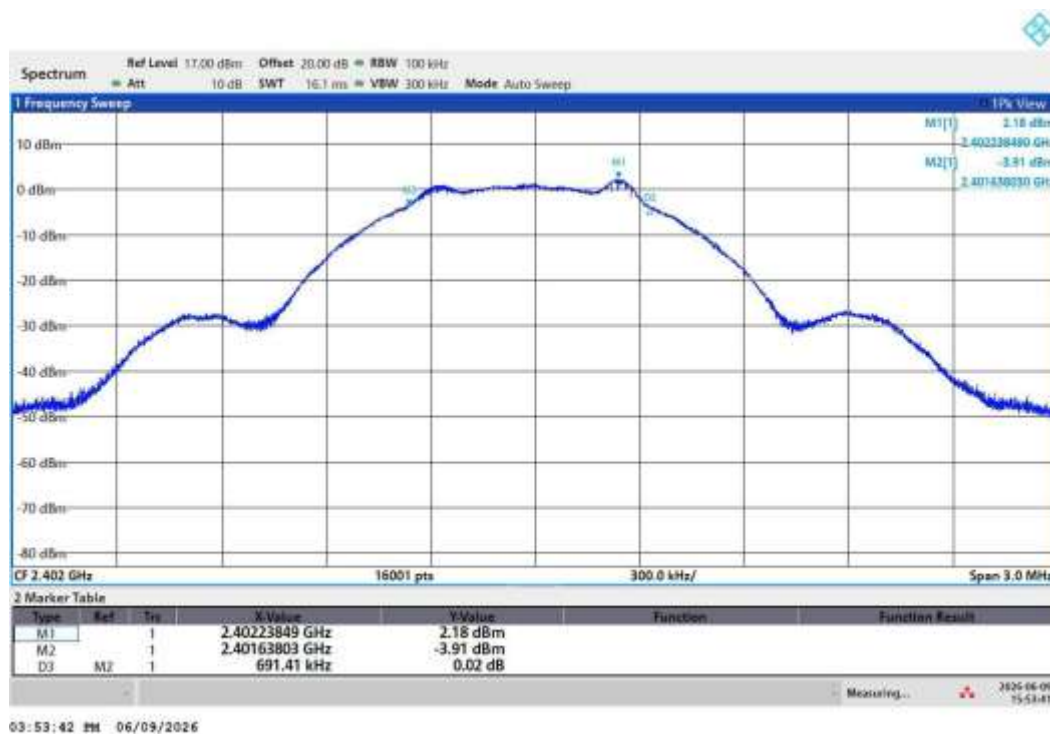
Tech: CL Payne

Data Rate: 1 Mb/s

Low Channel: 2402

6dB Bandwidth = 691.41 kHz

Result: Pass



Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: 6dB Bandwidth greater than 500kHz

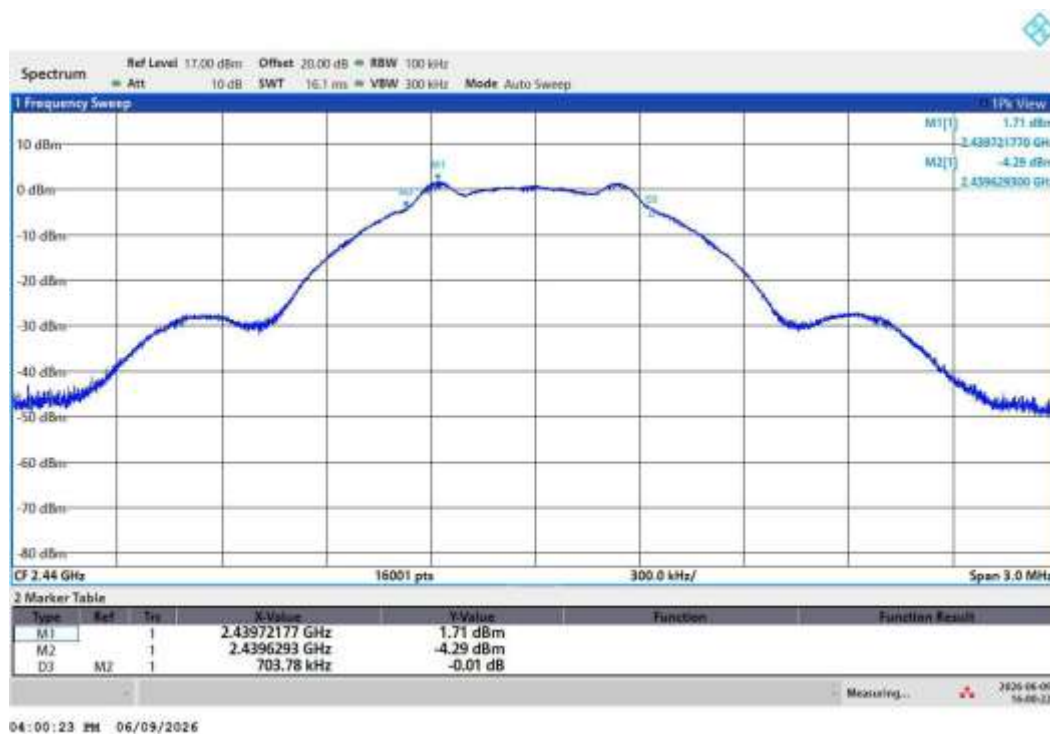
Tech: CL Payne

Data Rate: 1 Mb/s

Mid Channel: 2440

6dB Bandwidth = 703.78 kHz

Result: Pass



Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: 6dB Bandwidth greater than 500kHz

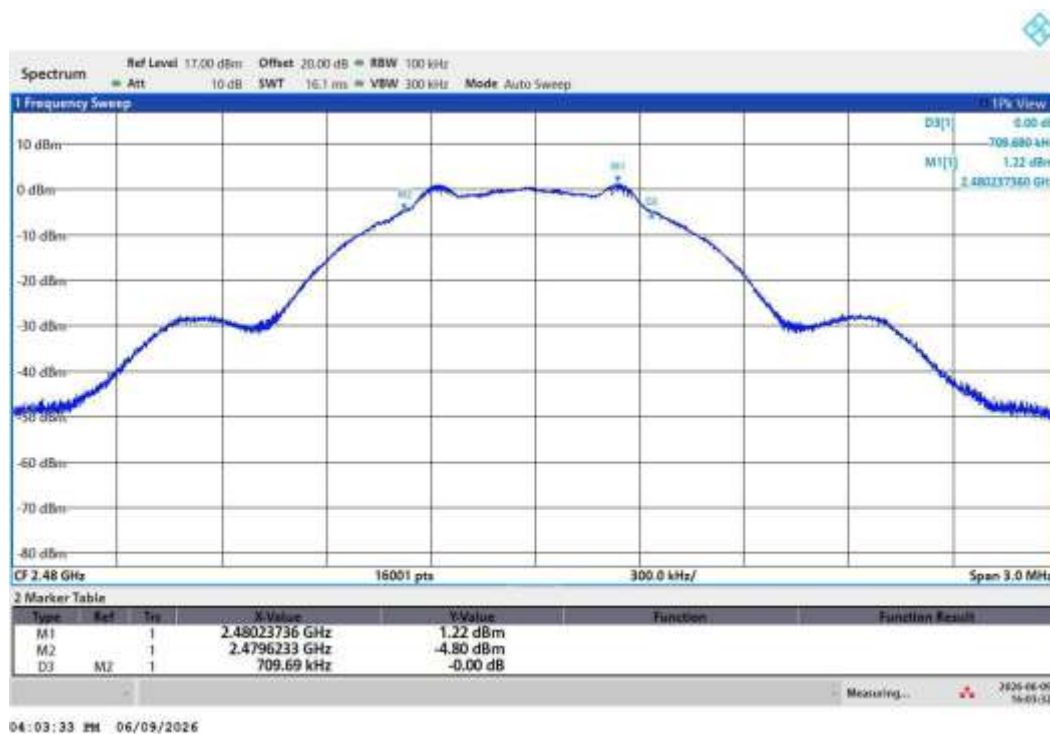
Tech: CL Payne

Data Rate: 1 Mb/s

High Channel: 2480

6dB Bandwidth = 709.69 kHz

Result: Pass



Occupied bandwidth—power bandwidth (99%) measurement procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

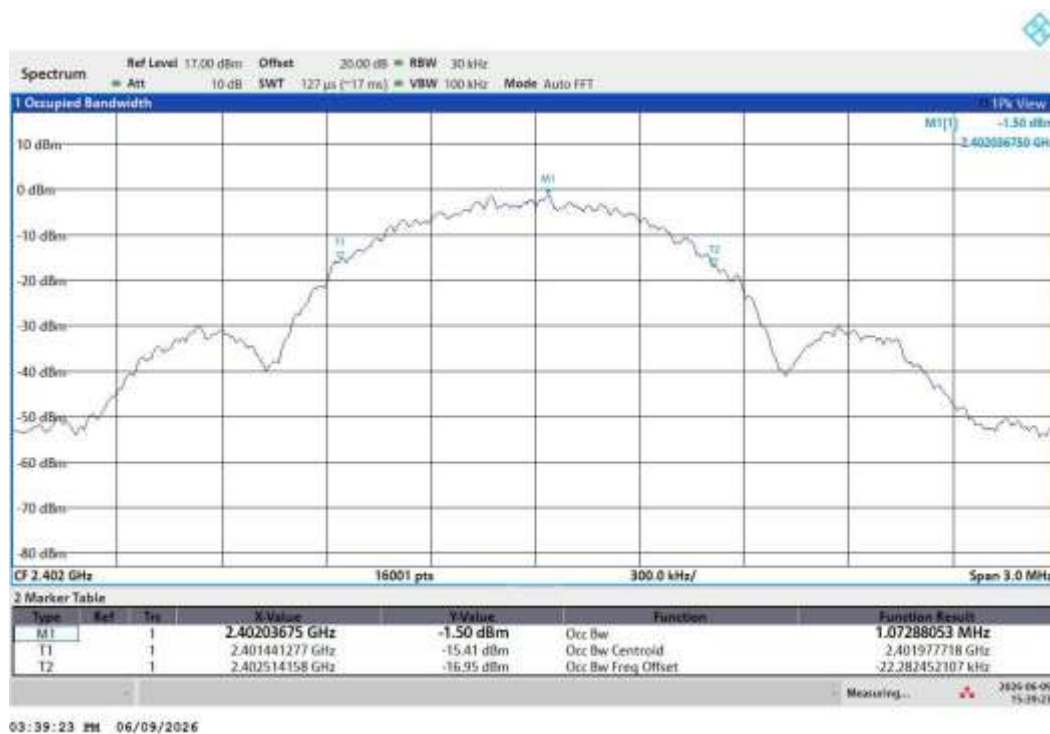
Requirement: 99% Occupied Bandwidth

Tech: CL Payne

Data Rate: 1 Mb/s

Low Channel: 2402

99% Occupied Bandwidth = 1.072880530 MHz



Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

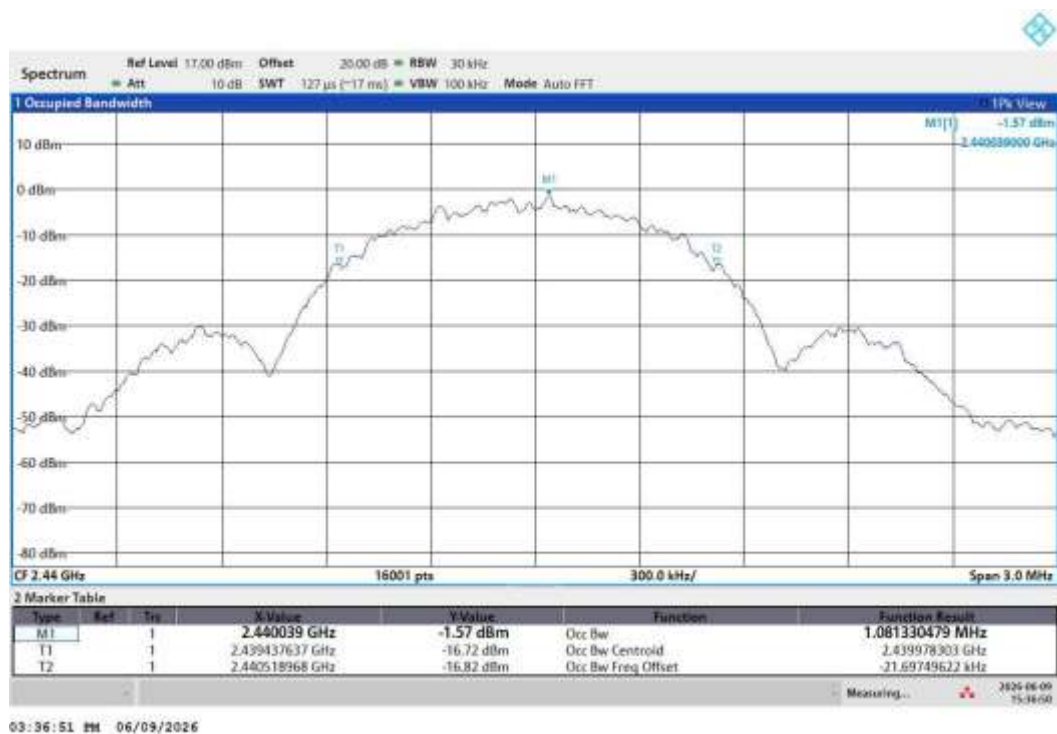
Requirement: 99% Occupied Bandwidth

Tech: CL Payne

Data Rate: 1 Mb/s

Mid Channel: 2440

99% Occupied Bandwidth = 1.081330479 MHz



Client: WiTricity

Date: 9 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

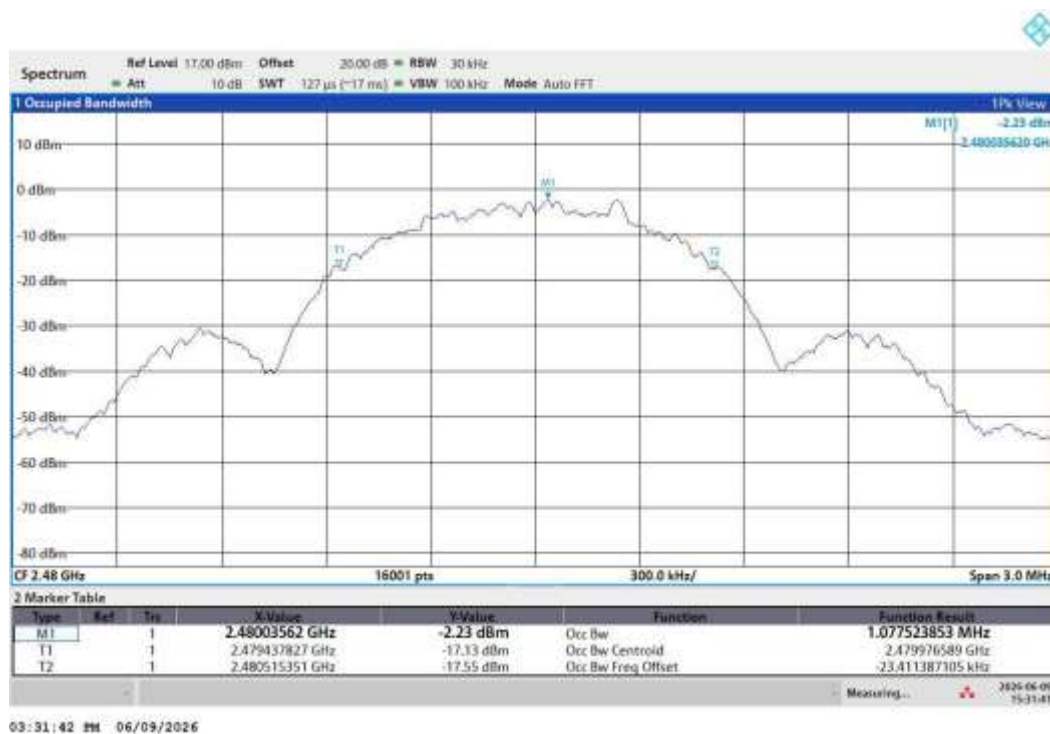
Requirement: 99% Occupied Bandwidth

Tech: CL Payne

Data Rate: 1 Mb/s

High Channel: 2480

99% Occupied Bandwidth = 1.077523853 MHz



Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers.

Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

Requirement: FCC Part 15.247 Clause (d)

- (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.

Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

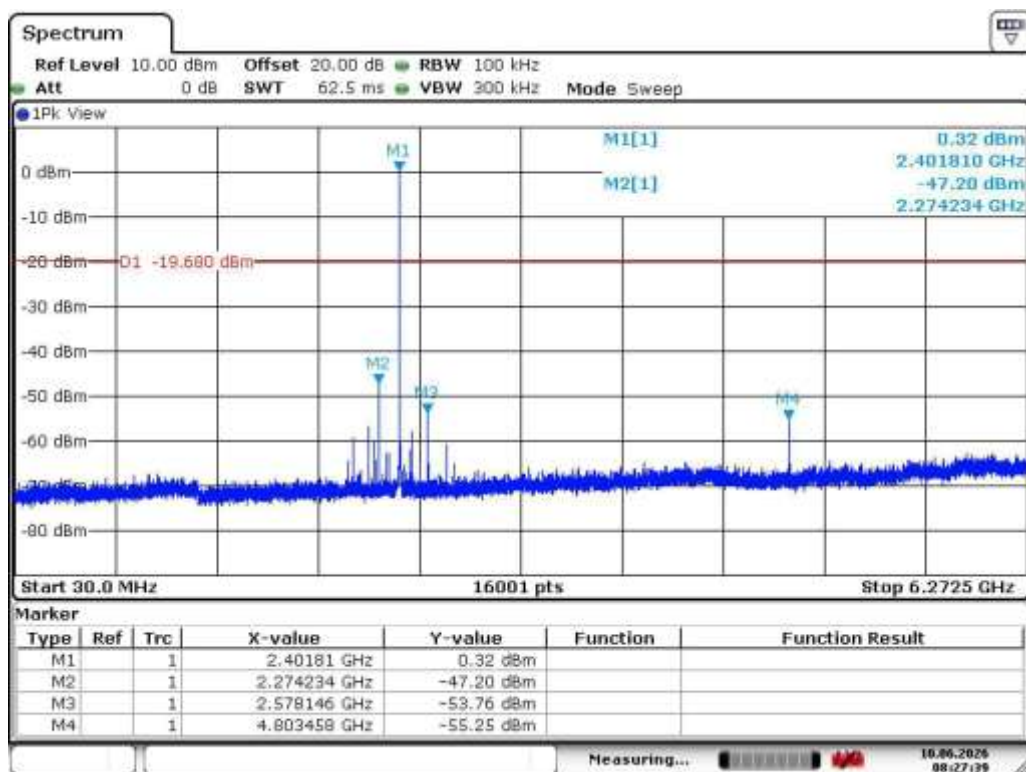
Data Rate: 1Mb/s

Maximum Reading = 0.32 dBm

Low Channel: 2402 MHz

Requirement = -19.68 dBm

Result: Pass



Date: 10.JUN.2026 08:27:39

Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

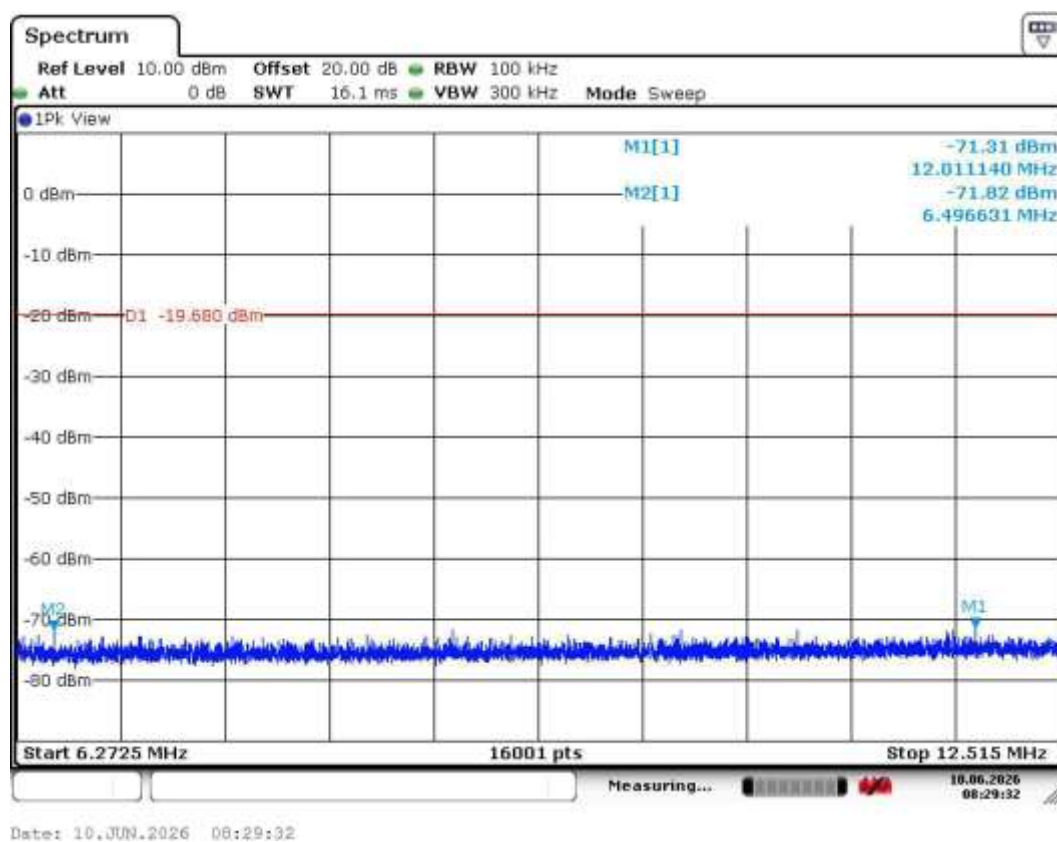
Data Rate: 1Mb/s

Maximum Reading = 0.32 dBm

Low Channel: 2402 MHz

Requirement = -19.68 dBm

Result: Pass



Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

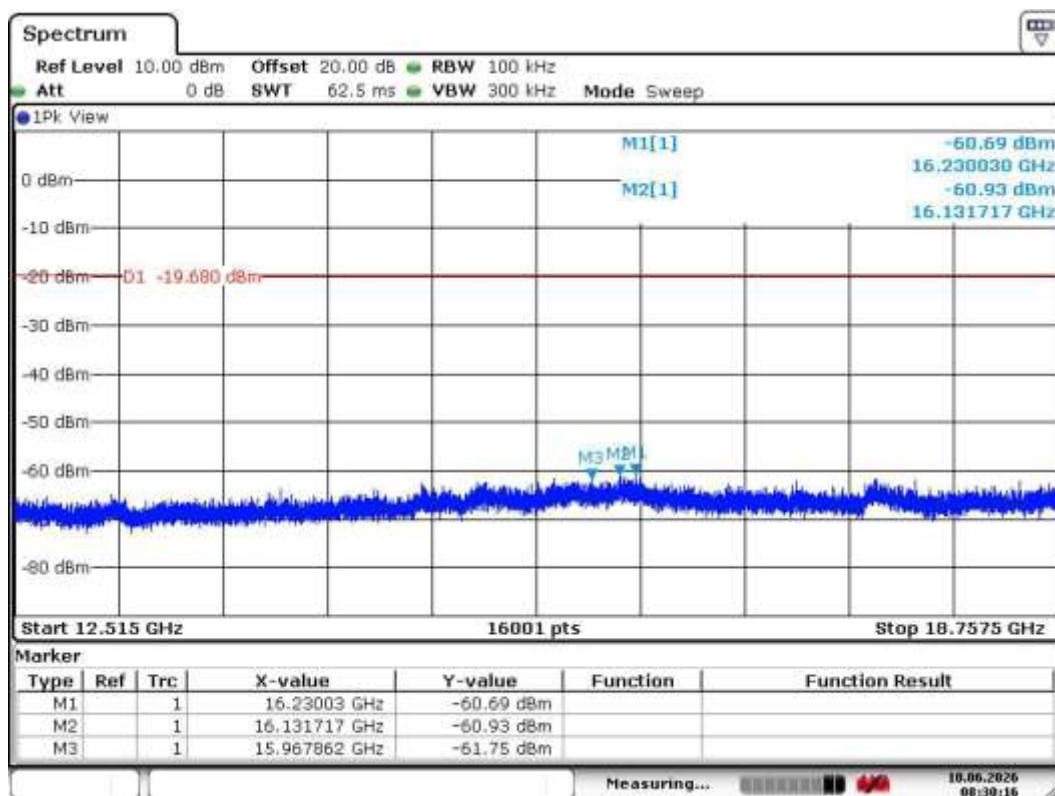
Data Rate: 1Mb/s

Maximum Reading = 0.32 dBm

Low Channel: 2402 MHz

Requirement = -19.68 dBm

Result: Pass



Date: 10 JUN 2026 08:30:16

Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

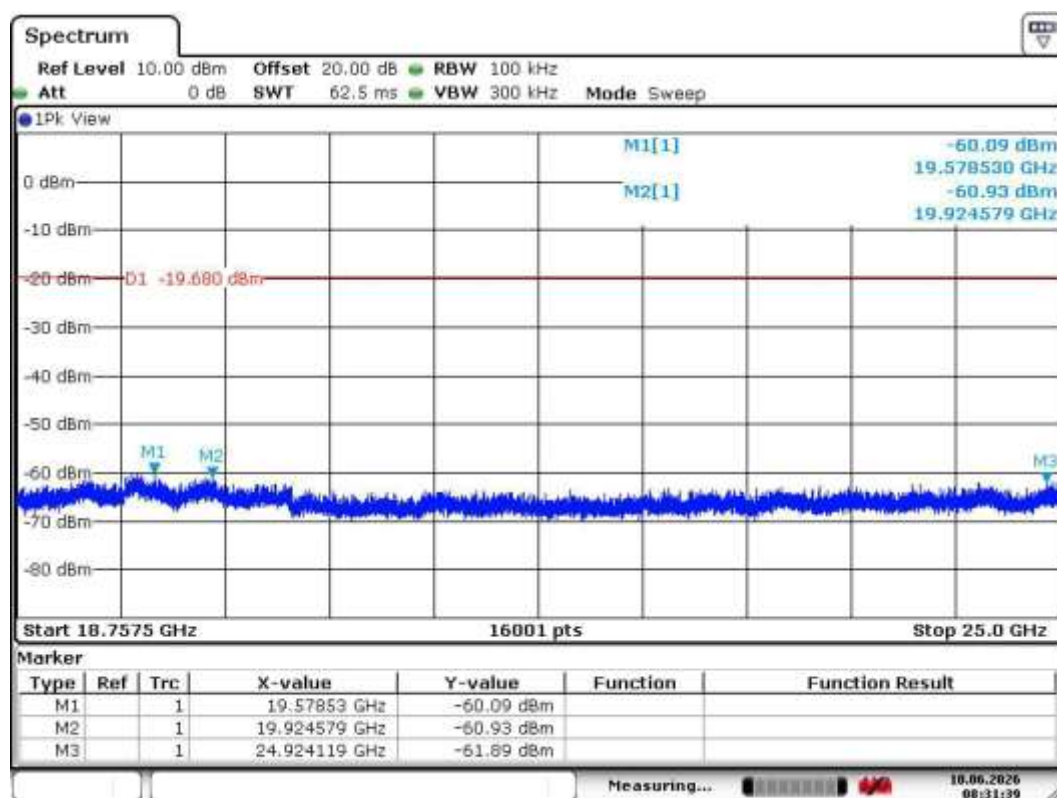
Data Rate: 1Mb/s

Maximum Reading = 0.32 dBm

Low Channel: 2402 MHz

Requirement = -19.68 dBm

Result: Pass



Date: 10 JUN 2026 08:31:39

Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

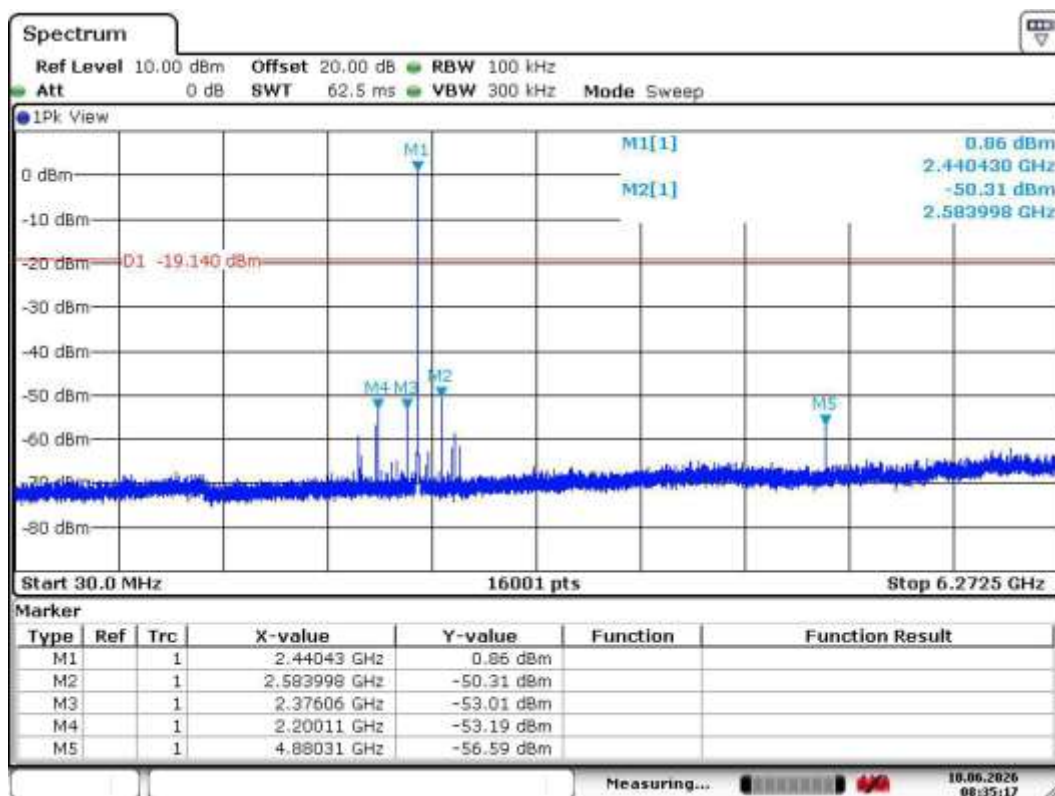
Data Rate: 1Mb/s

Maximum Reading = 0.86 dBm

Mid Channel: 2440 MHz

Requirement = -19.14 dBm

Result: Pass



Date: 10 JUN 2026 08:35:17

Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

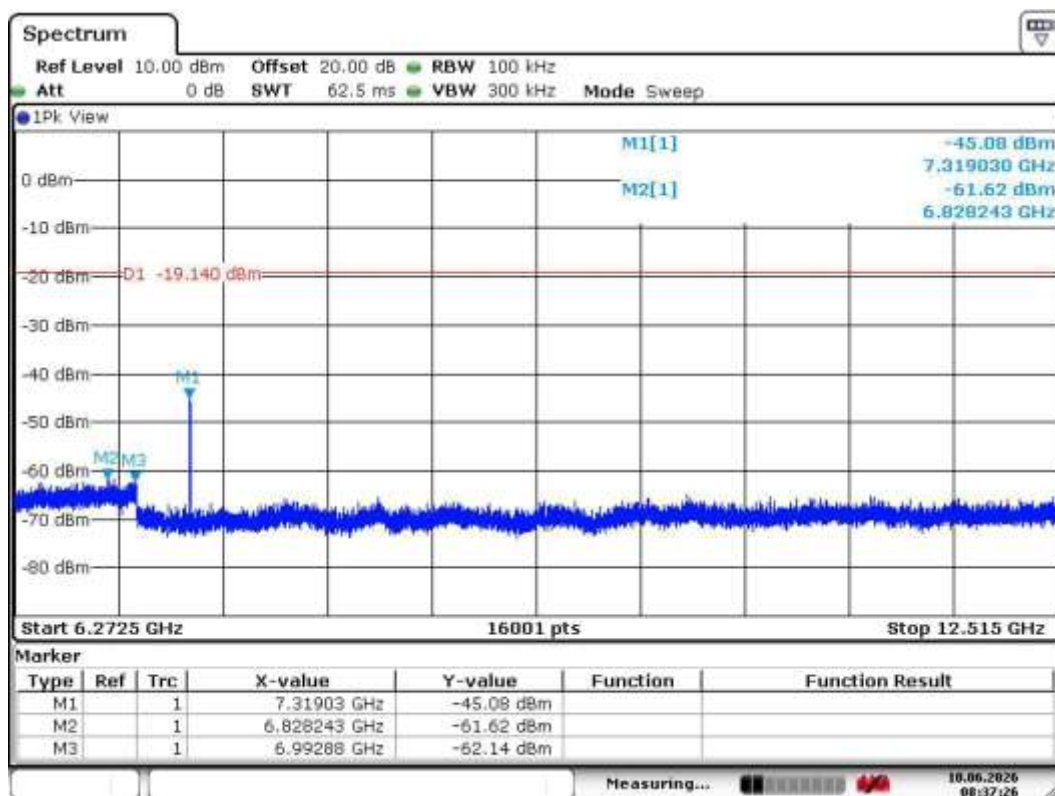
Data Rate: 1Mb/s

Maximum Reading = 0.86 dBm

Mid Channel: 2440 MHz

Requirement = -19.14 dBm

Result: Pass



Date: 10 JUN 2026 08:37:26

Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

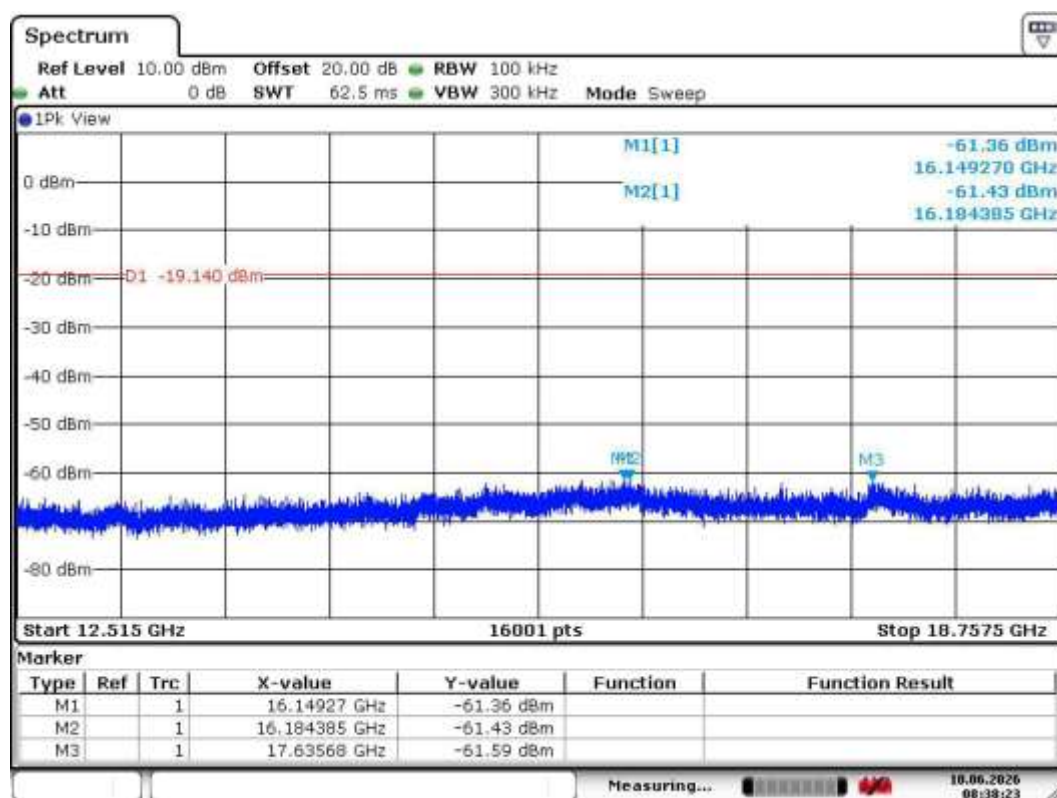
Data Rate: 1Mb/s

Maximum Reading = 0.86 dBm

Mid Channel: 2440 MHz

Requirement = -19.14 dBm

Result: Pass



Date: 10 JUN 2026 06:38:23

Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

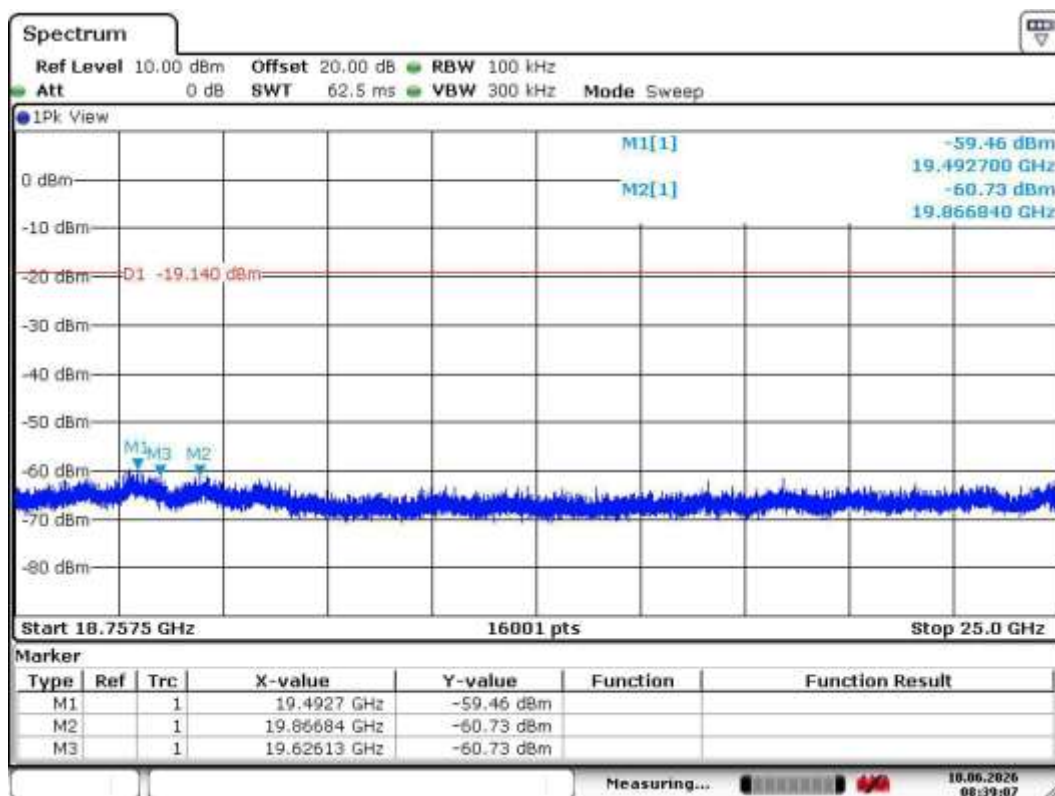
Data Rate: 1Mb/s

Maximum Reading = 0.86 dBm

Mid Channel: 2440 MHz

Requirement = -19.14 dBm

Result: Pass



Date: 10 JUN 2026 06:39:07

Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

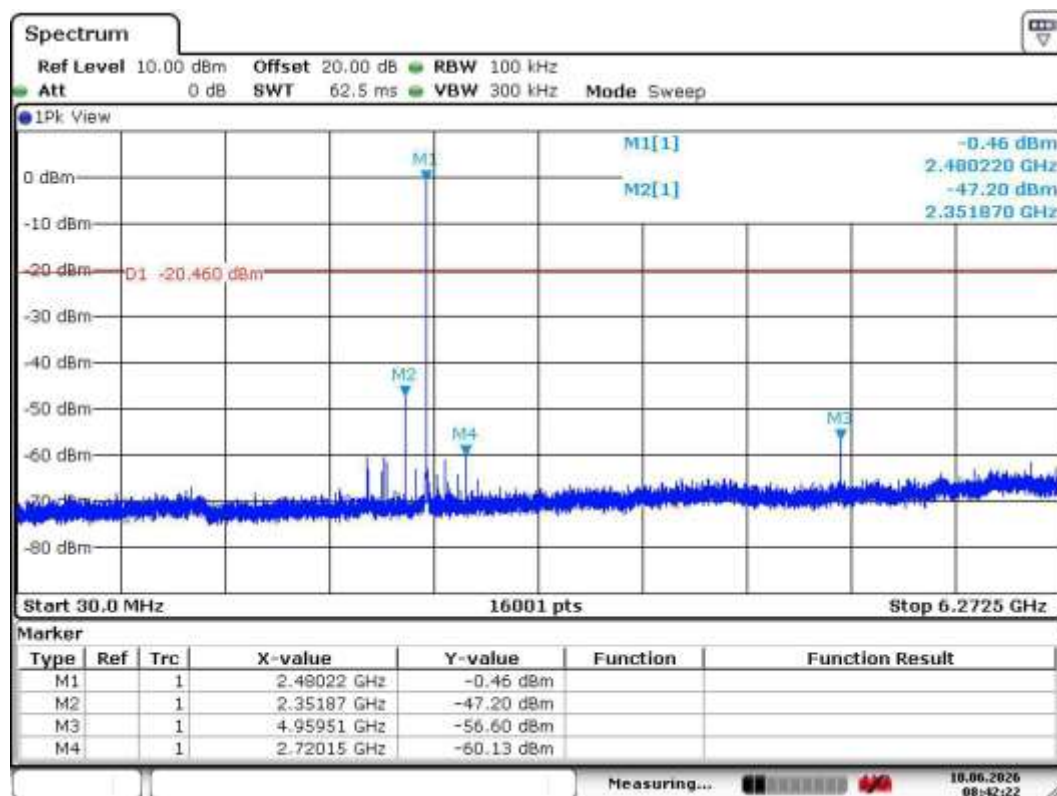
Data Rate: 1Mb/s

Maximum Reading = -0.46 dBm

High Channel: 2480 MHz

Requirement = -20.46 dBm

Result: Pass



Date: 10 JUN 2026 08:42:22

Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

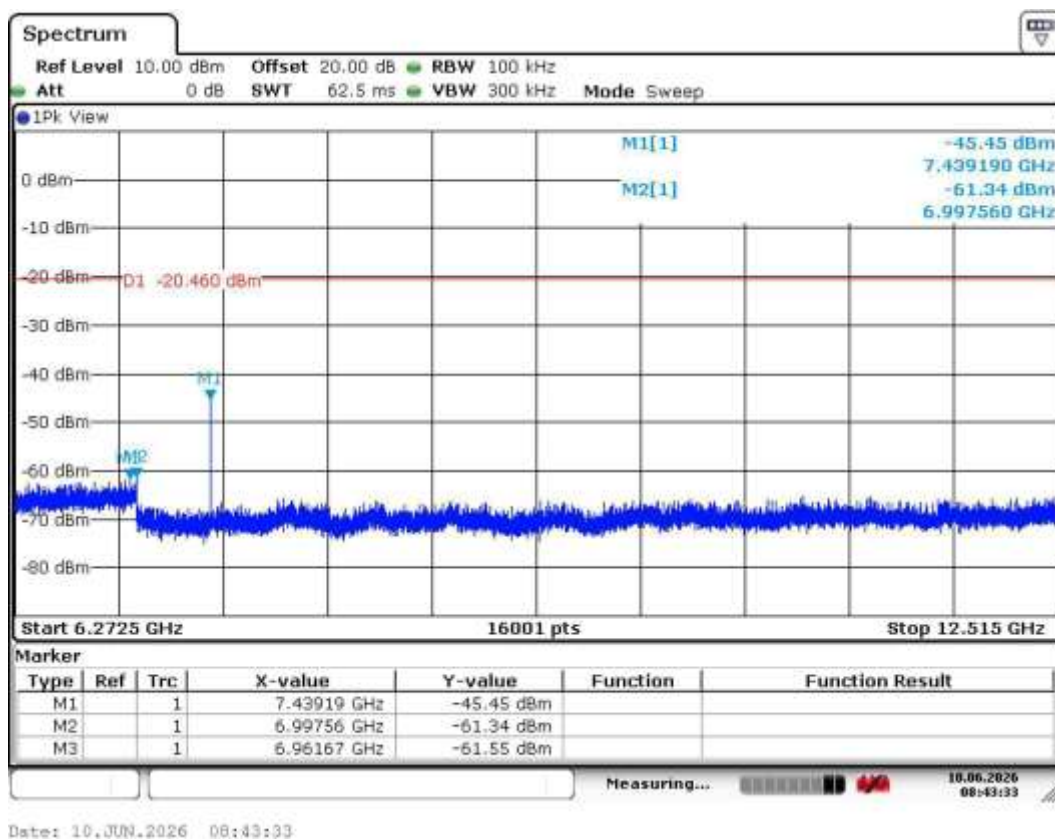
Data Rate: 1Mb/s

Maximum Reading = -0.46 dBm

High Channel: 2480 MHz

Requirement = -20.46 dBm

Result: Pass



Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

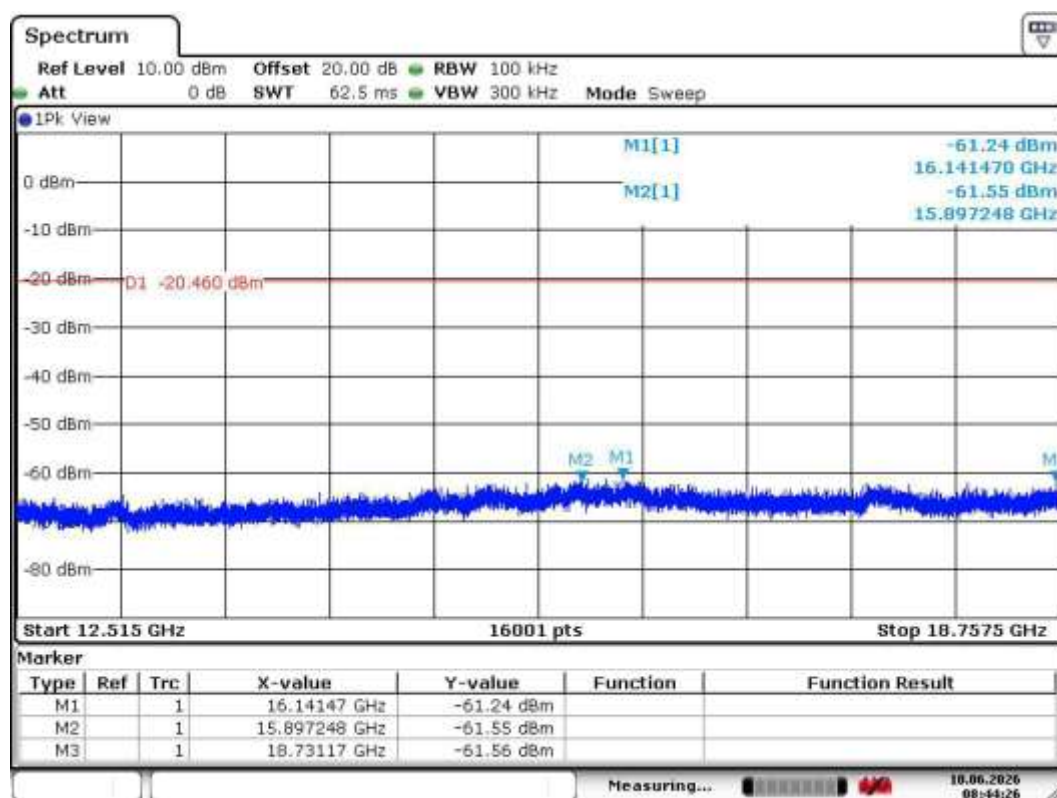
Data Rate: 1Mb/s

Maximum Reading = -0.46 dBm

High Channel: 2480 MHz

Requirement = -20.46 dBm

Result: Pass



Date: 10 JUN 2026 08:44:26

Client: WiTricity

Date: 10 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Conducted spurious emission <20dB of peak

Tech: CL Payne

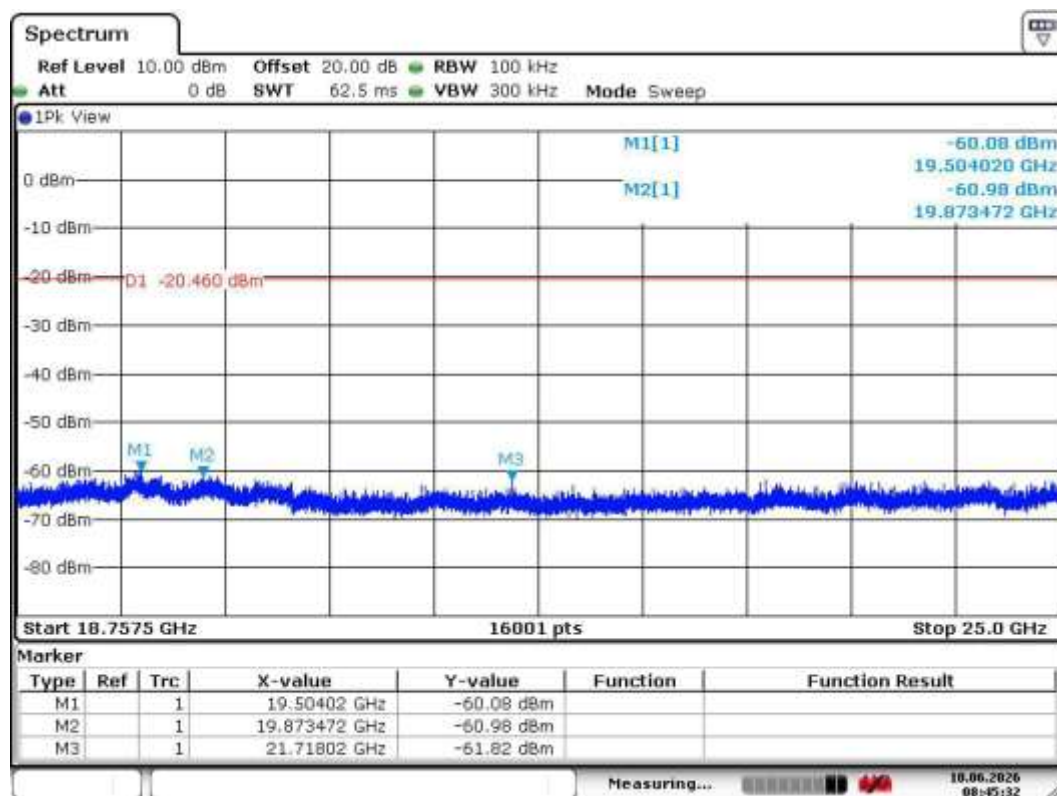
Data Rate: 1Mb/s

Maximum Reading = -0.46 dBm

High Channel: 2480 MHz

Requirement = -20.46 dBm

Result: Pass



Date: 10 JUN 2026 08:45:32

An additional consideration when performing conducted measurements of restricted-band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than from the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements, the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in 6.3, 6.5, and 6.6. All detected emissions shall comply with the applicable requirements.

This test is required for any spurious emission or modulation product that falls in an Unrestricted Band, as defined in Section 15.209. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Span	=	wide enough to fully capture the emission being measured
RBW	=	1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz
VBW	=	$\geq$ RBW
Sweep	=	auto
Detector function	=	peak
Trace	=	max hold

Follow the guidelines in ANSI C63.10-2020 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now repeat the measurement using the average detector of the spectrum analyzer. Submit this data.

Note 1: Limit listed is the general limit as specified in 15.209 in order to show compliance with the restricted bands of operation as well as the out of band limit in 15.247. No other identifiable signals were observed in the restricted bands as specified in 15.205.

Note 2: Highest frequency investigated was the tenth harmonic of the fundamental, no radiated emissions were detected above the 3rd harmonic.

Note 3: The worst case emissions are recorded within this test report.

Requirement: FCC Part 15.247 Clause (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.

15.247 (d) Restricted Bands ANSI C63.10-2020 Clause 11.12.2

11.12 Emissions in restricted frequency bands

11.12.1 Radiated emission measurements

Because the typical emission requirements are specified in terms of radiated field strength levels, measurements performed to determine compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for determining compliance to the specified requirements; however antenna-port conducted measurements are also now acceptable to determine compliance (see 11.12.2 for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in 6.3, 6.5, and 6.6 shall be followed.

Requirement: FCC Part 15.247 Clause (d)

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)).

Note 4: Limit listed is the general limit as specified in 15.209 in order to show compliance with the restricted bands of operation as well as the out of band limit in 15.247. No other identifiable signals were observed in the restricted bands as specified in 15.205.

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: General limit of 15.209

Tech: CL Payne

Low Channel: 2402

Result: Pass

Radiated Spurious Emissions												
FREQ (Mhz)	S/A Reading (dBuV/m)	Correction Factors (dB)			dBuV/m			Positions				
		Amp	Cbl	Ant	Corr	Lim	Delta	Typ	Tbl	Pl	Hgt	Result
4804.000	27.88	25.74	6.16	32.99	41.30	74.00	-32.70	PK	289	V	1.42	Pass
4804.000	23.11	25.74	6.16	32.99	36.53	54.00	-17.47	AVE	289	V	1.42	Pass
7206.000	24.53	25.52	7.56	37.02	43.60	74.00	-30.40	PK	0	V	1.40	Pass
7206.000	17.66	25.52	7.56	37.02	36.73	54.00	-17.27	AVE	0	V	1.40	Pass
9608.000	24.10	25.04	9.37	37.96	46.40	74.00	-27.60	PK	0	V	1.00	Pass
9608.000	18.00	25.04	9.37	37.96	40.30	54.00	-13.70	AVE	0	V	1.00	Pass
4804.000	27.70	25.74	6.16	32.99	41.12	74.00	-32.88	PK	202	H	1.32	Pass
4804.000	23.43	25.74	6.16	32.99	36.85	54.00	-17.15	AVE	202	H	1.32	Pass
7206.000	26.65	25.52	7.56	37.02	45.72	74.00	-28.28	PK	40	H	1.30	Pass
7206.000	19.78	25.52	7.56	37.02	38.85	54.00	-15.15	AVE	40	H	1.30	Pass
9608.000	23.67	25.04	9.37	37.96	45.97	74.00	-28.03	PK	0	H	1.30	Pass
9608.000	18.07	25.04	9.37	37.96	40.37	54.00	-13.63	AVE	0	H	1.30	Pass

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: General limit of 15.209

Tech: CL Payne

Mid Channel: 2440

Result: Pass

Radiated Spurious Emissions												
FREQ (Mhz)	S/A Reading (dBuV/m)	Correction Factors (dB)			dBuV/m			Positions				
		Amp	Cbl	Ant	Corr	Lim	Delta	Typ	Tbl	Pl	Hgt	Result
4880.000	30.99	25.72	6.27	33.30	44.83	74.00	-29.17	PK	48	V	1.00	Pass
4880.000	26.52	25.72	6.27	33.30	40.36	54.00	-13.64	AVE	48	V	1.00	Pass
7320.000	31.31	25.47	7.67	37.10	50.61	74.00	-23.39	PK	302	V	1.00	Pass
7320.000	25.85	25.47	7.66	37.09	45.13	54.00	-8.87	AVE	302	V	1.00	Pass
4880.000	29.21	25.72	6.27	33.30	43.05	74.00	-30.95	PK	113	H	2.31	Pass
4880.000	24.20	25.72	6.27	33.30	38.04	54.00	-15.96	AVE	113	H	2.31	Pass
7320.000	31.46	25.47	7.67	37.10	50.76	74.00	-23.24	PK	200	H	2.33	Pass
7320.000	26.74	25.47	7.66	37.09	46.02	54.00	-7.98	AVE	200	H	2.33	Pass

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: General limit of 15.209

Tech: CL Payne

High Channel: 2480

Result: Pass

Radiated Spurious Emissions												
FREQ (Mhz)	S/A Reading (dBuV/m)	Correction Factors (dB)			dBuV/m			Positions				
		Amp	Cbl	Ant	Corr	Lim	Delta	Typ	Tbl	Pl	Hgt	Result
4960.000	38.99	25.71	6.35	33.56	53.19	74.00	-20.81	PK	31	V	1.00	Pass
4960.000	23.89	25.71	6.35	33.56	38.09	54.00	-15.91	AVE	31	V	1.00	Pass
7440.000	39.25	25.42	7.75	37.16	58.74	74.00	-15.26	PK	297	V	1.00	Pass
7440.000	23.94	25.42	7.75	37.16	43.43	54.00	-10.57	AVE	297	V	1.00	Pass
4960.000	36.15	25.71	6.35	33.56	50.35	74.00	-23.65	PK	64	H	1.40	Pass
4960.000	21.96	25.71	6.35	33.56	36.16	54.00	-17.84	AVE	64	H	1.40	Pass
7440.000	36.90	25.42	7.75	37.16	56.39	74.00	-17.61	PK	313	H	1.34	Pass
7440.000	21.88	25.42	7.75	37.16	41.37	54.00	-12.63	AVE	313	H	1.34	Pass

11.12.2 Antenna-port conducted measurements

11.12.2.1 General

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case emissions is required.

11.12.2.2 General procedure for conducted measurements in restricted bands

The general procedure for conducted measurements in restricted bands is as follows:

- a) Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 11.12.2.3 through 11.12.2.5 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP (see 11.12.2.6 for guidance on determining the applicable antenna gain).
- c) Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies $\leq$ 30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies $>$ 1000 MHz).
- d) For MIMO devices, measure the power of each chain and sum the EIRP of all chains in linear terms (i.e., watts and mW).
- e) Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log d + 104.8$$

where

E is the electric field strength in dB μ V/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

- f) Compare the resultant electric field strength level with the applicable regulatory limit.
- g) Perform the radiated spurious emission test.

15.247 (d) Restricted Bands - *continued*

Note: With respect to steps e) and f) a limit line (EIRP) based upon the dBuV/m limit was calculated and put on the plots to satisfy the requirement of step f) above. Formula is: $(E + 20 \log d) - 104.8 = (\text{EIRP limit})$. The appropriate correction factor from step c) was included in the final calculation.

Limit Calculation:

Formula: $E - 104.8 + 20\log(3) - \text{antenna gain} - \text{ground reflection factor}$

30 MHz - 88 MHz	$40.0 - 104.8 + 20\log(d) - (2.23) - 4.7$	$= -62.19 \text{ dBm}$
88 MHz - 216 MHz	$43.5 - 104.8 + 20\log(d) - (2.23) - 4.7$	$= -58.69 \text{ dBm}$
216 MHz - 960 MHz	$46.0 - 104.8 + 20\log(d) - (2.23) - 4.7$	$= -56.19 \text{ dBm}$
960 MHz - 1000 MHz	$54.0 - 104.8 + 20\log(d) - (2.23) - 4.7$	$= -48.19 \text{ dBm}$
> 1000 MHz	$54.0 - 104.8 + 20\log(d) - (2.23) - 0$	$= -43.49 \text{ dBm}$

Note: (d) = Measurement distance in meters = 3 meters

Requirement: FCC Part 15.247 Clause (d)

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)).

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

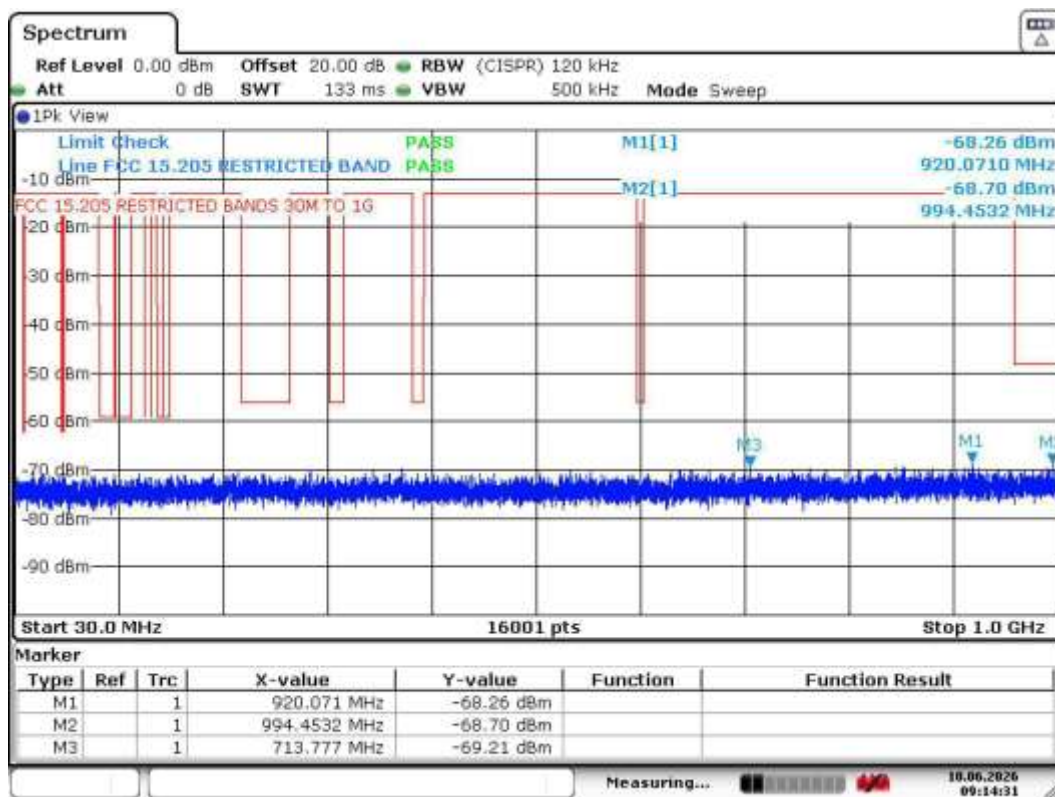
Low Channel: 2402 MHz

Data Rate: 1Mb/s

Frequency Range: 30 MHz to 1000 MHz

Result: Pass

Detector Function: Peak



Date: 10.JUN.2026 09:14:31

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

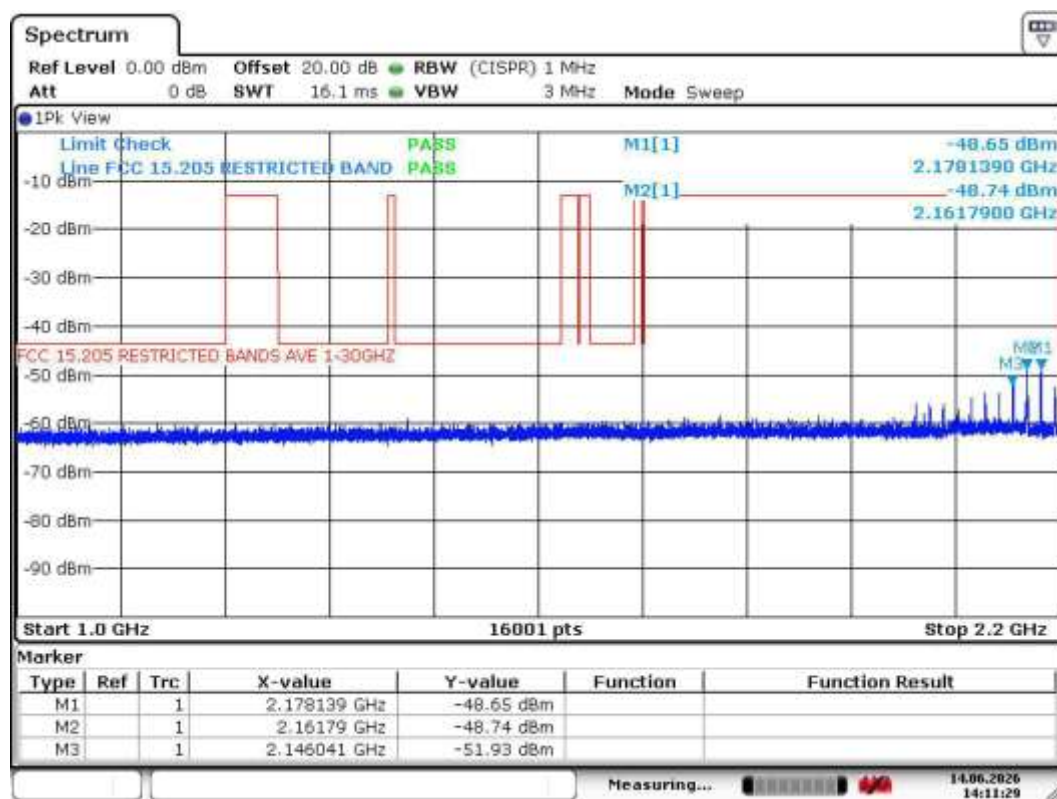
Low Channel: 2402 MHz

Data Rate: 1Mb/s

Frequency Range: 1000 MHz to 2200 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:11:28

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

Low Channel: 2402 MHz

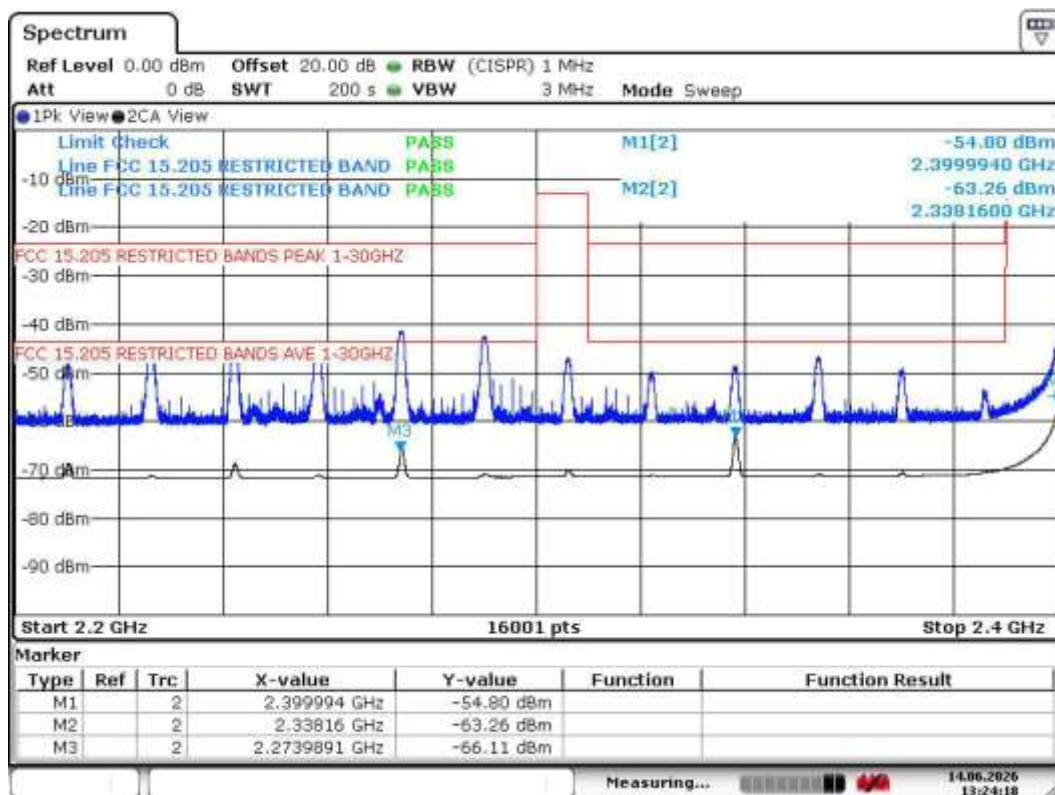
Data Rate: 1Mb/s

Frequency Range: 2200 MHz to 2400 MHz

Result: Pass

Upper Trace: Detector Function: Peak Limit: Peak

Lower Trace: Detector Function: Average Limit: Average



Date: 14.JUN.2026 13:24:17

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

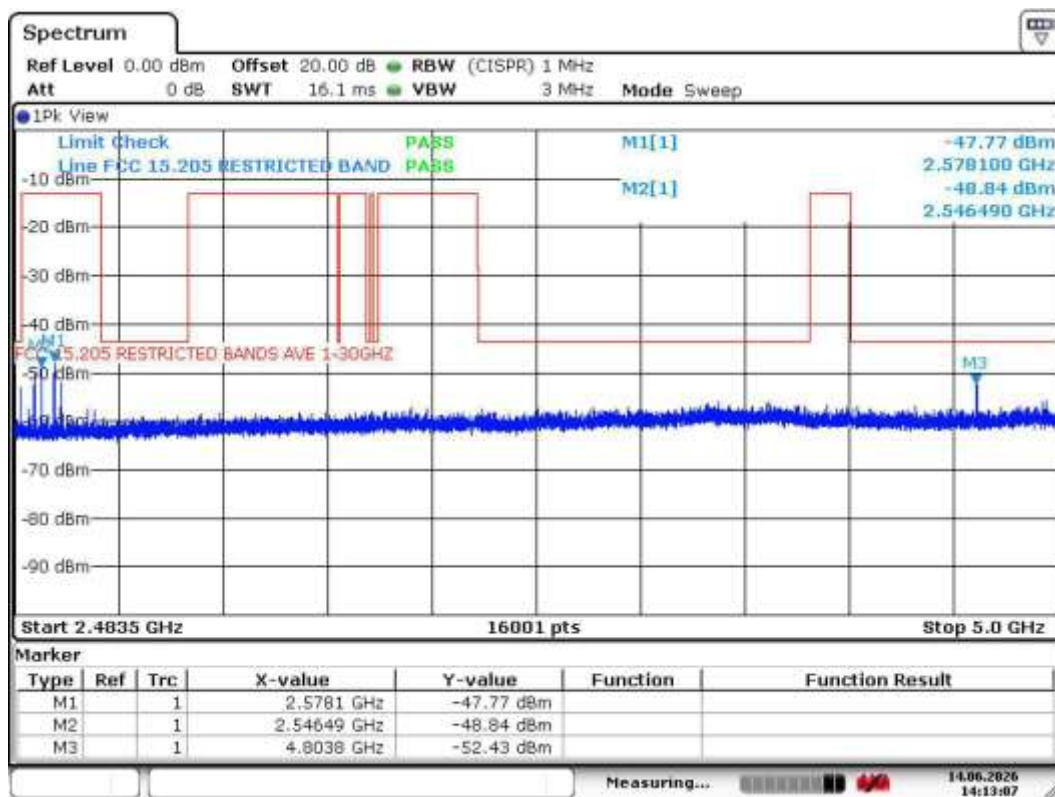
Low Channel: 2402 MHz

Data Rate: 1Mb/s

Frequency Range: 2483.5 MHz to 5000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:13:07

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

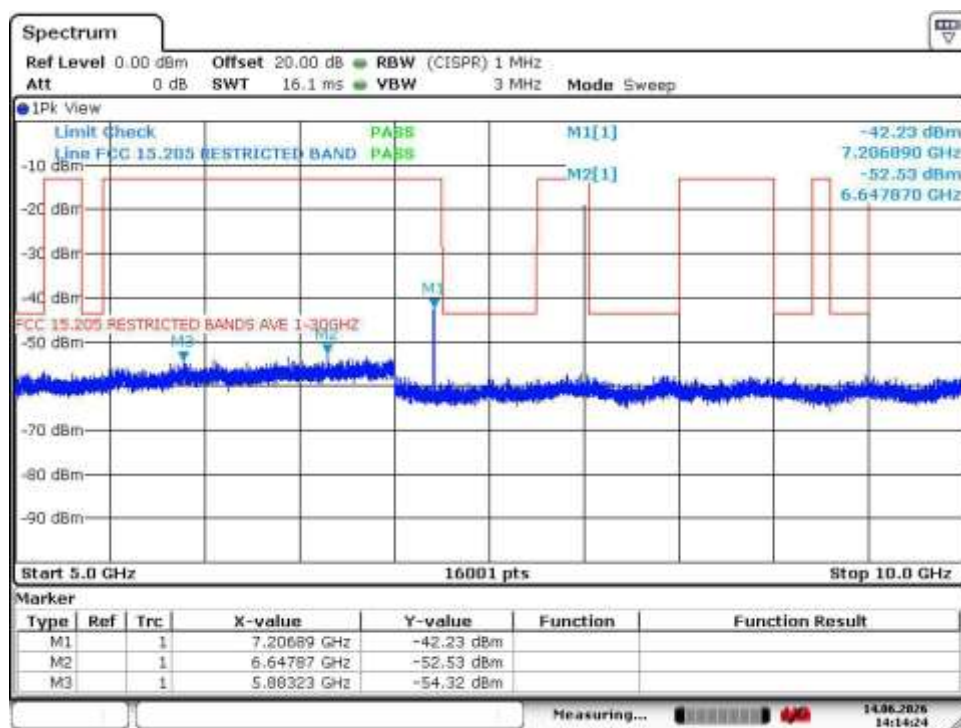
Low Channel: 2402 MHz

Data Rate: 1Mb/s

Frequency Range: 5000 MHz to 10000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:14:24

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

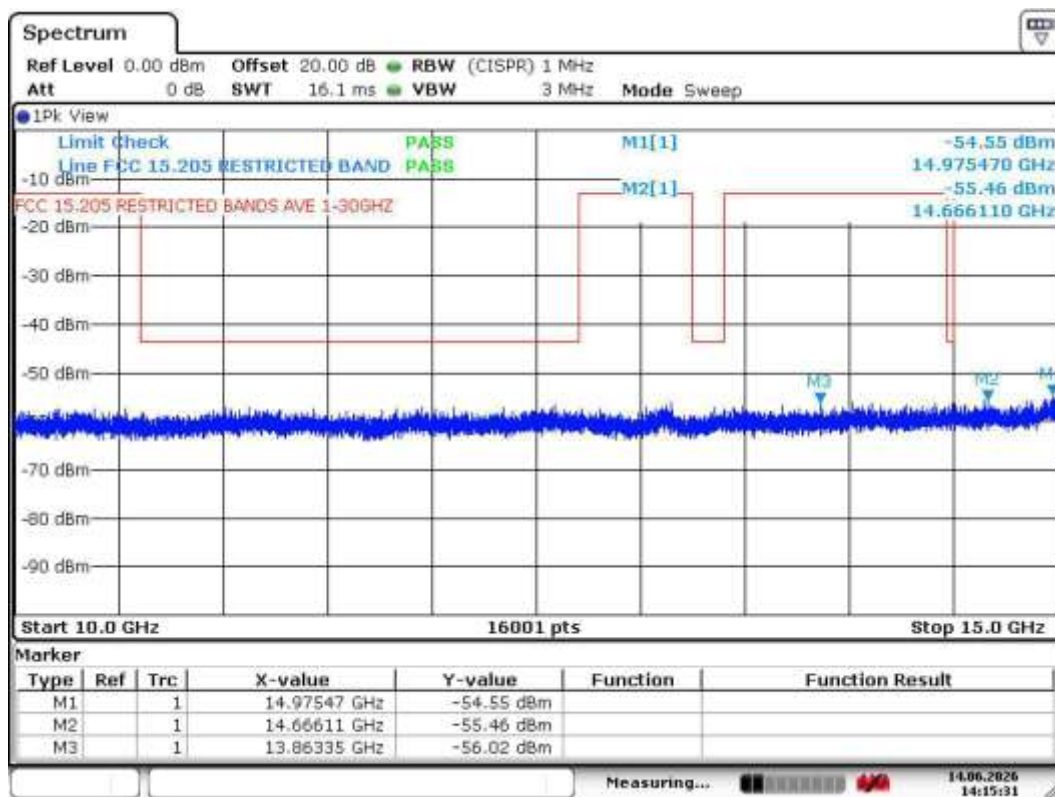
Low Channel: 2402 MHz

Data Rate: 1Mb/s

Frequency Range: 10000 MHz to 15000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:15:30

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

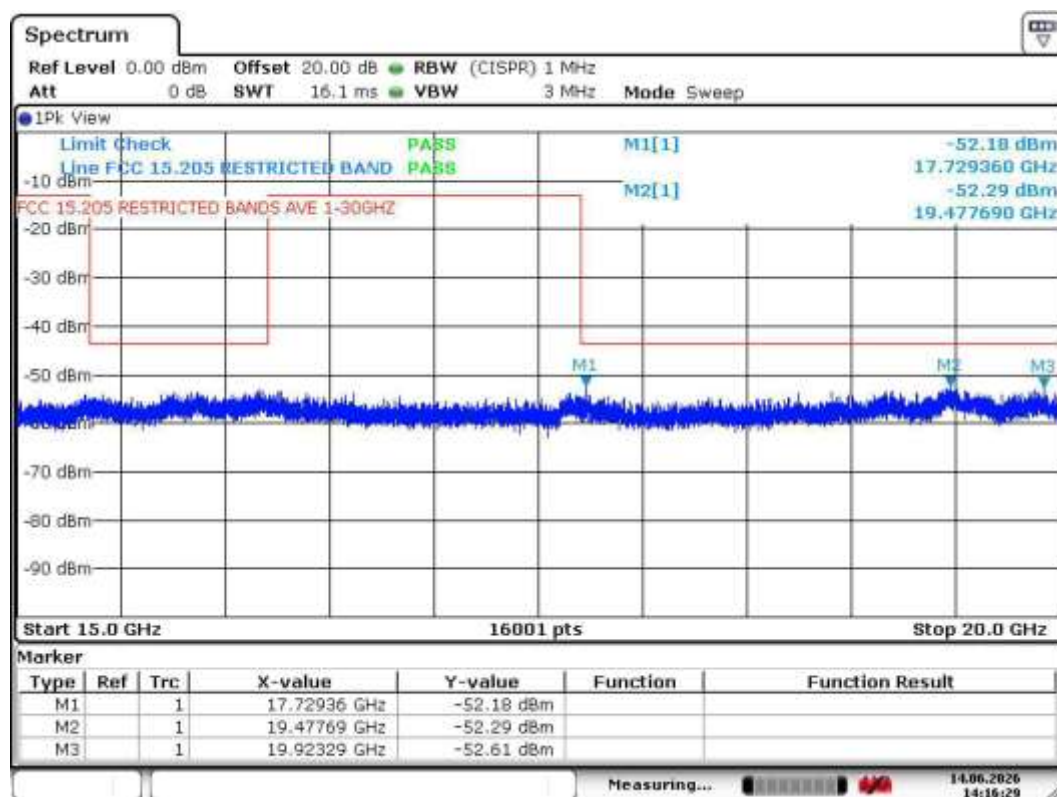
Low Channel: 2402 MHz

Data Rate: 1Mb/s

Frequency Range: 15000 MHz to 20000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:16:29

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

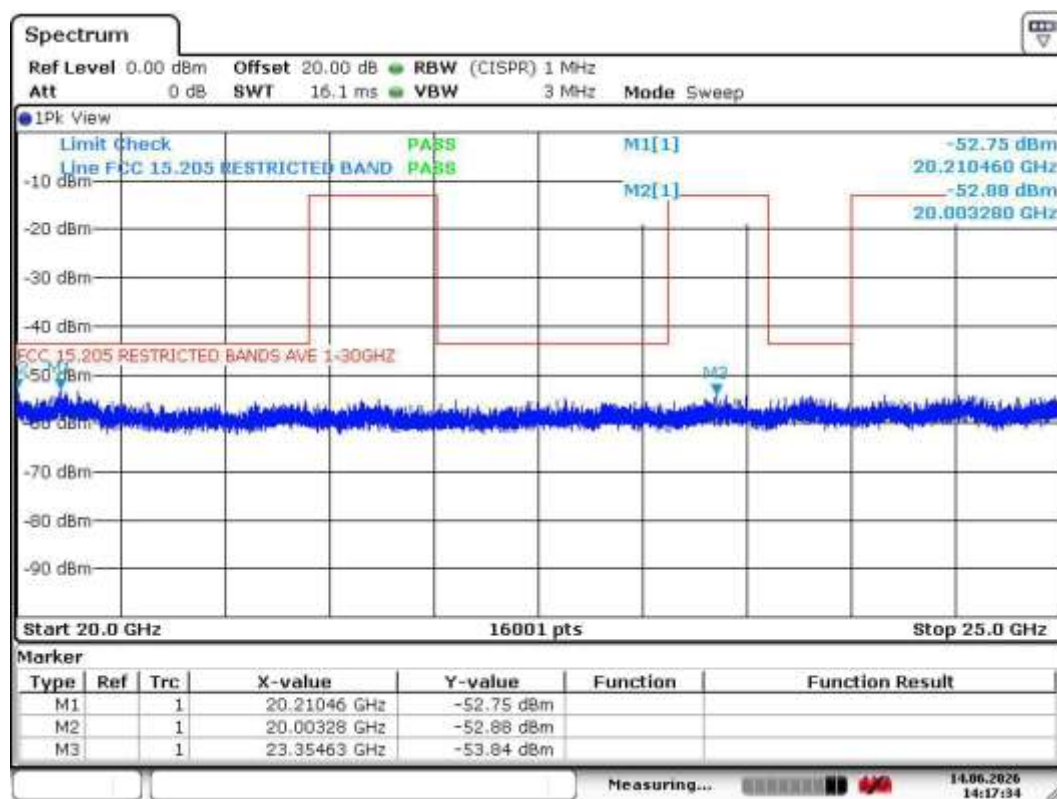
Low Channel: 2402 MHz

Data Rate: 1Mb/s

Frequency Range: 20000 MHz to 25000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:17:34

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

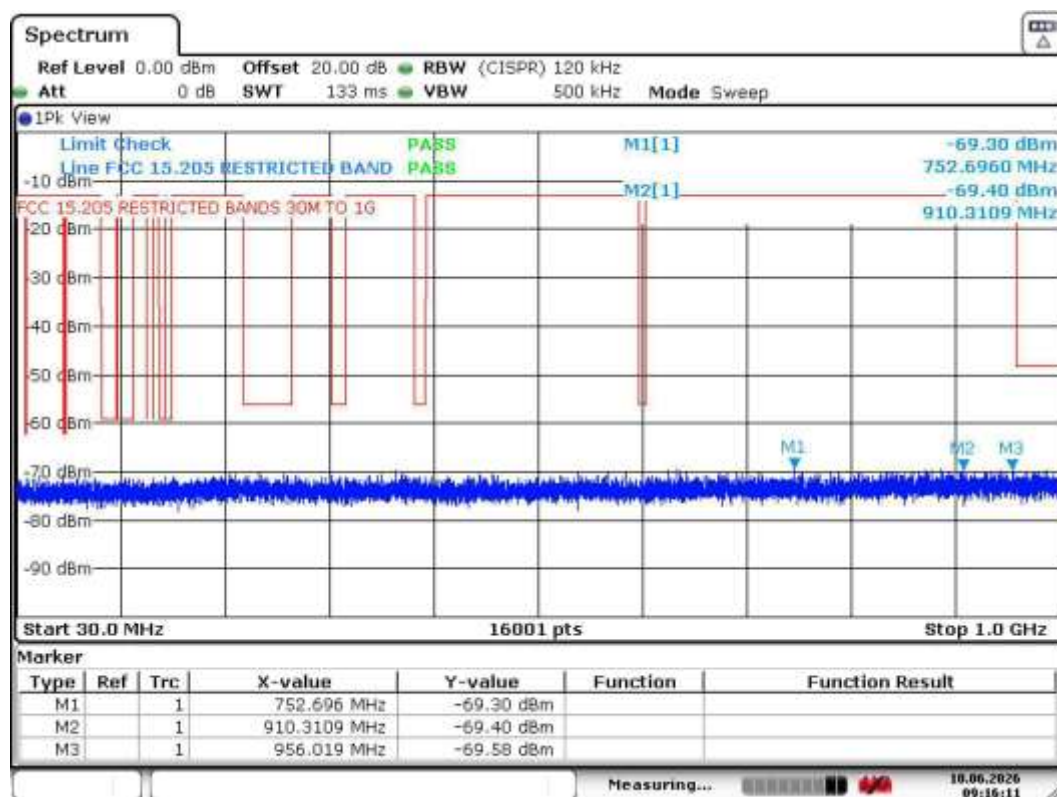
Mid Channel: 2440 MHz

Data Rate: 1Mb/s

Frequency Range: 30 MHz to 1000 MHz

Result: Pass

Detector Function: Peak



Date: 10.JUN.2026 09:16:11

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

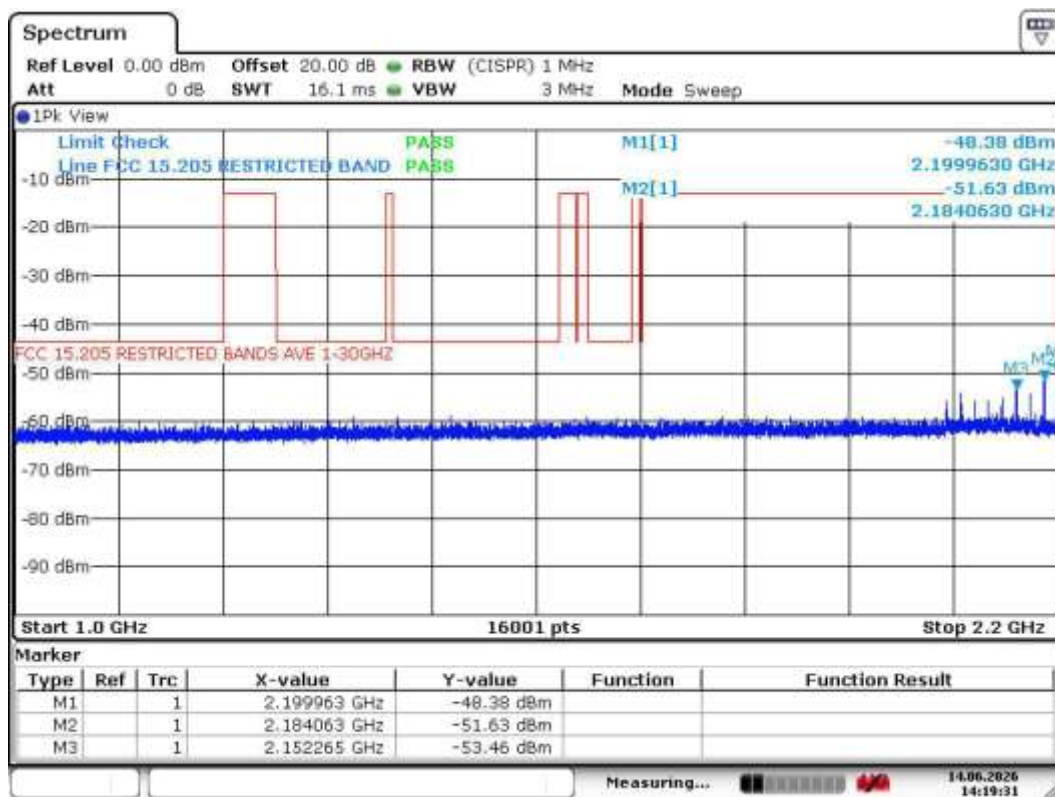
Mid Channel: 2440 MHz

Data Rate: 1Mb/s

Frequency Range: 1000 MHz to 2200 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:19:31

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

Mid Channel: 2440 MHz

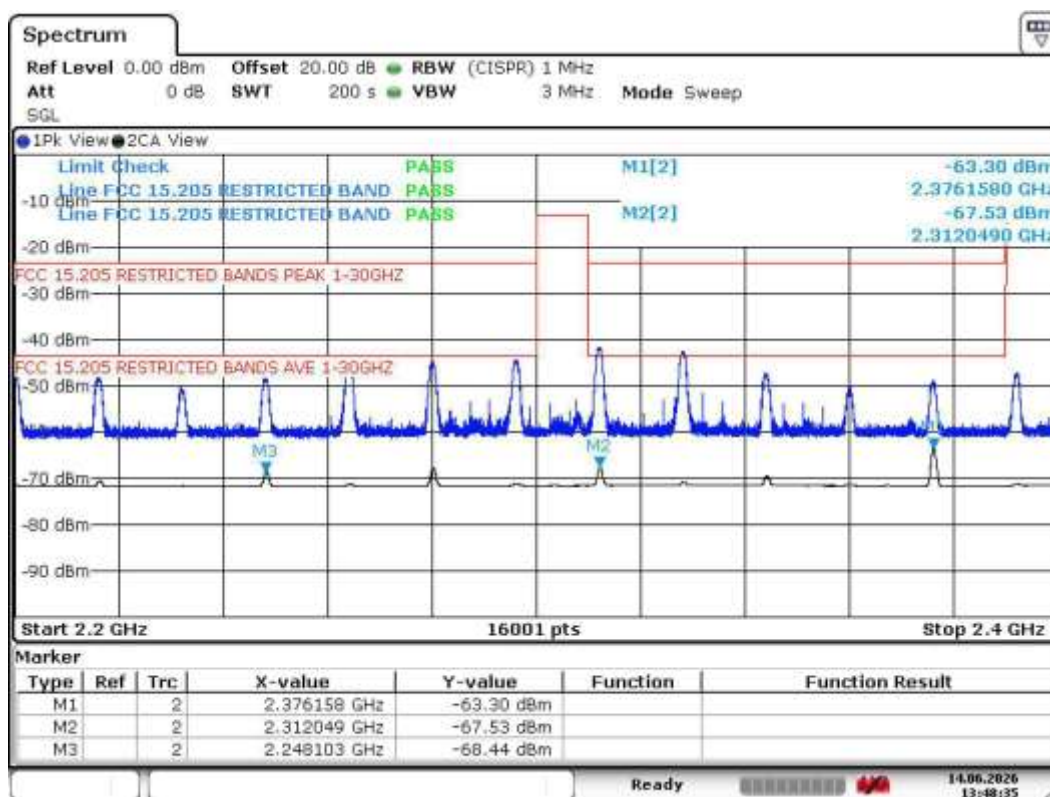
Data Rate: 1Mb/s

Frequency Range: 2200 MHz to 2400 MHz

Result: Pass

Upper Trace: Detector Function: Peak Limit: Peak

Lower Trace: Detector Function: Average Limit: Average



Date: 14.JUN.2026 13:48:36

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

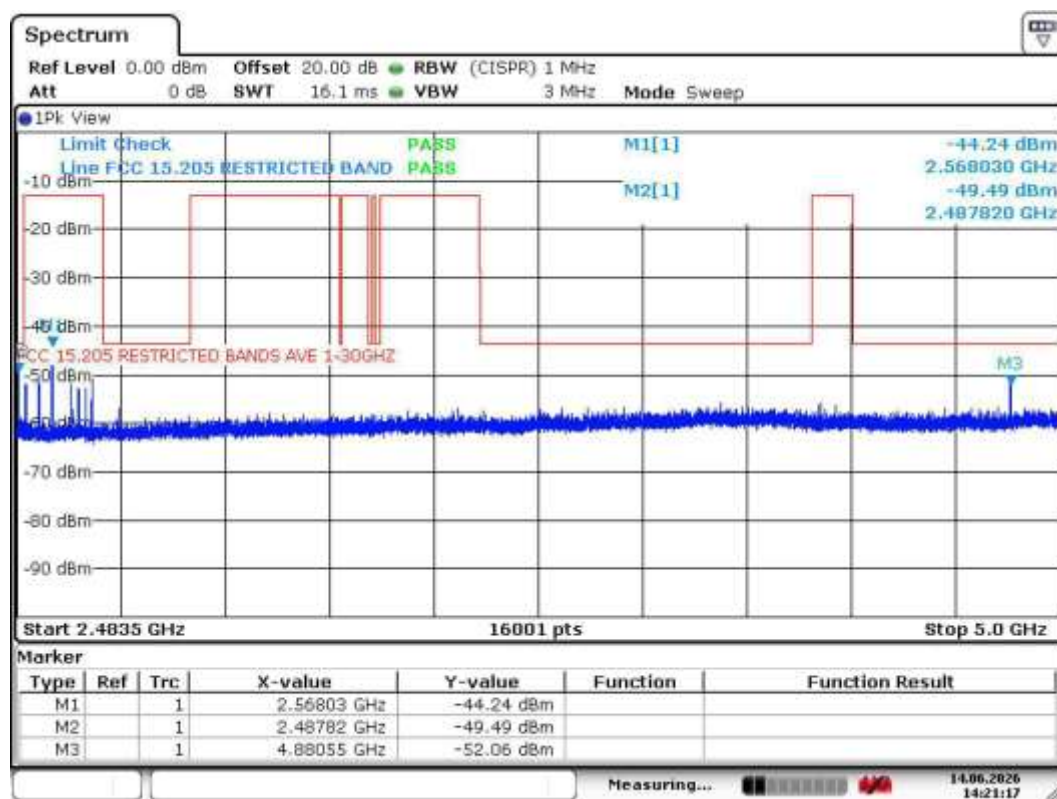
Mid Channel: 2440 MHz

Data Rate: 1Mb/s

Frequency Range: 2483.5 MHz to 5000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:21:17

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

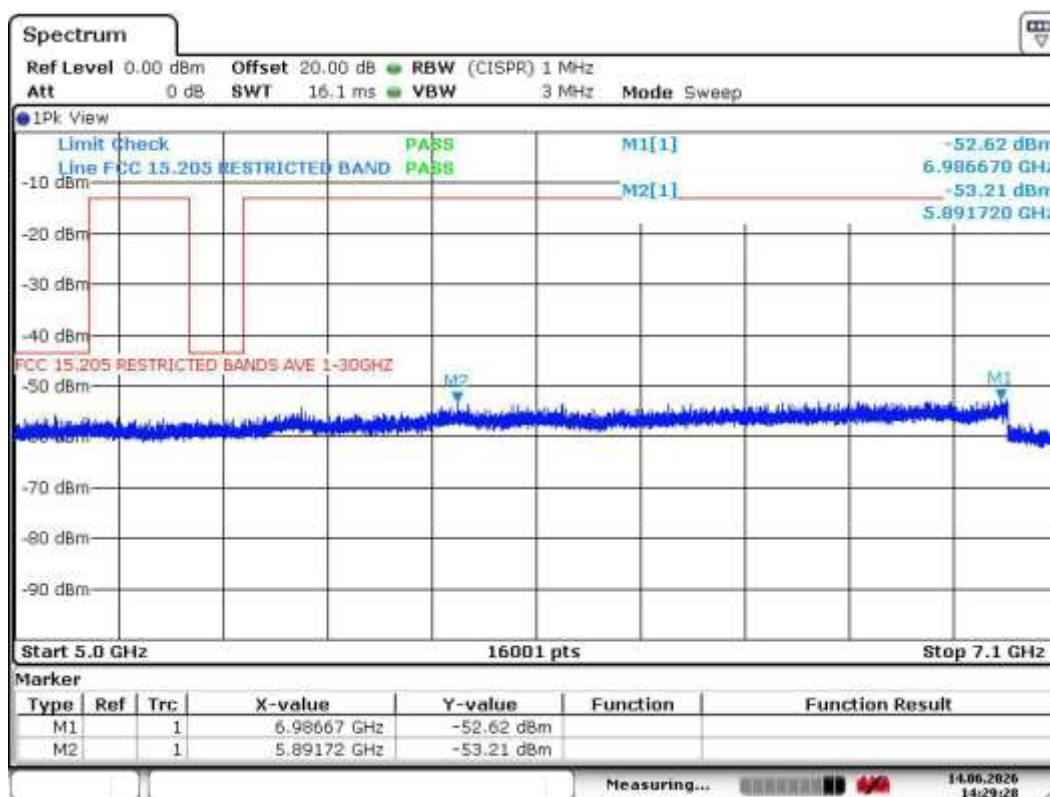
Mid Channel: 2440 MHz

Data Rate: 1Mb/s

Frequency Range: 5000 MHz to 7100 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:29:28

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

Mid Channel: 2440 MHz

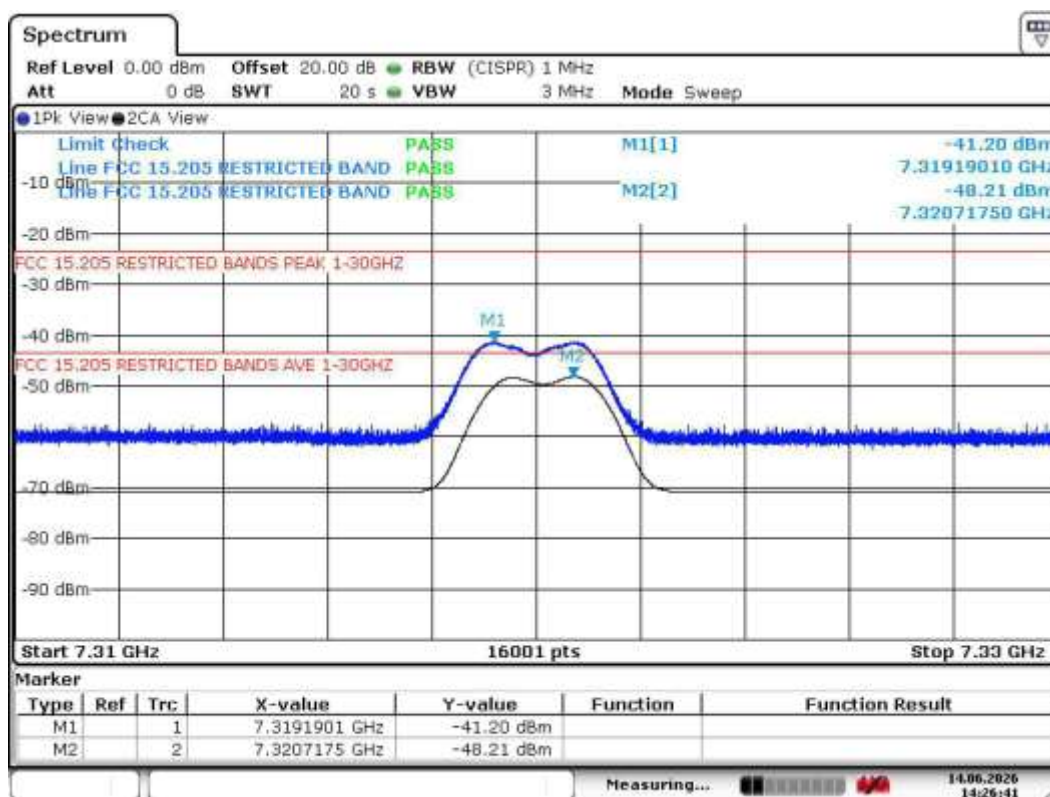
Data Rate: 1Mb/s

Frequency Range: 7310 MHz to 7330 MHz

Result: Pass

Upper Trace: Detector Function: Peak Limit: Peak

Lower Trace: Detector Function: Average Limit: Average



Date: 14.JUN.2026 14:26:41

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

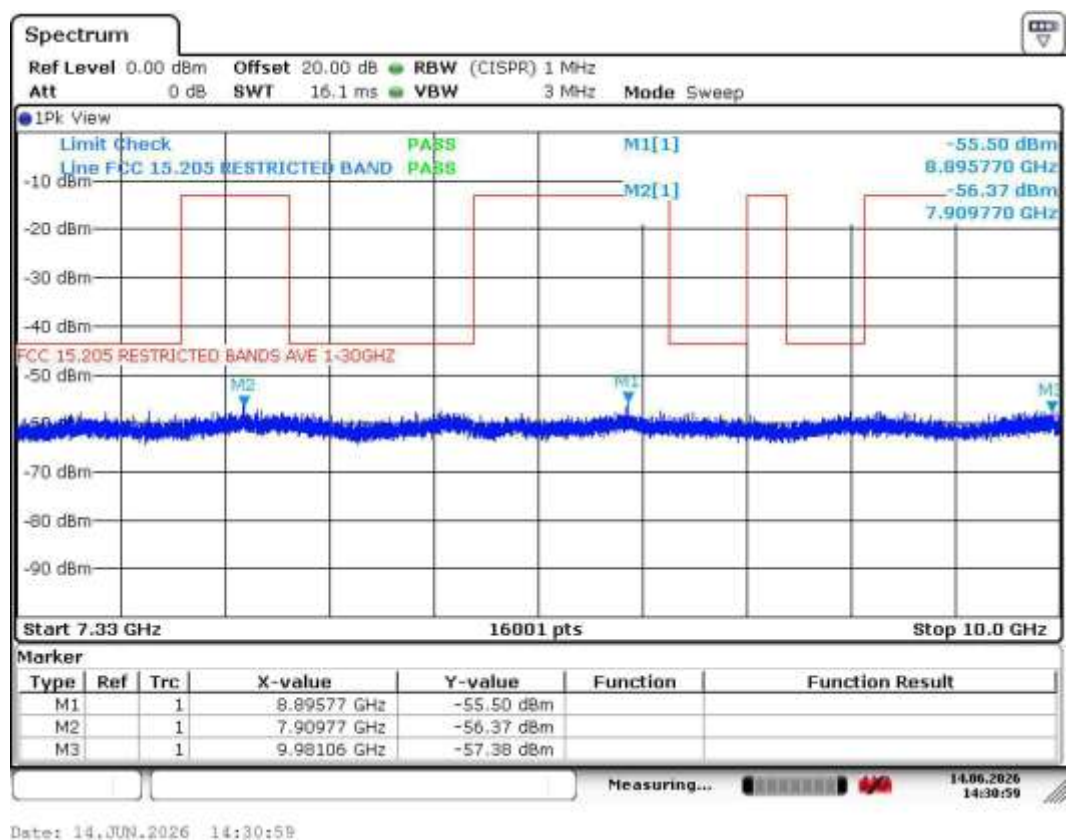
Mid Channel: 2440 MHz

Data Rate: 1Mb/s

Frequency Range: 7330 MHz to 10000 MHz

Result: Pass

Detector Function: Peak



Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

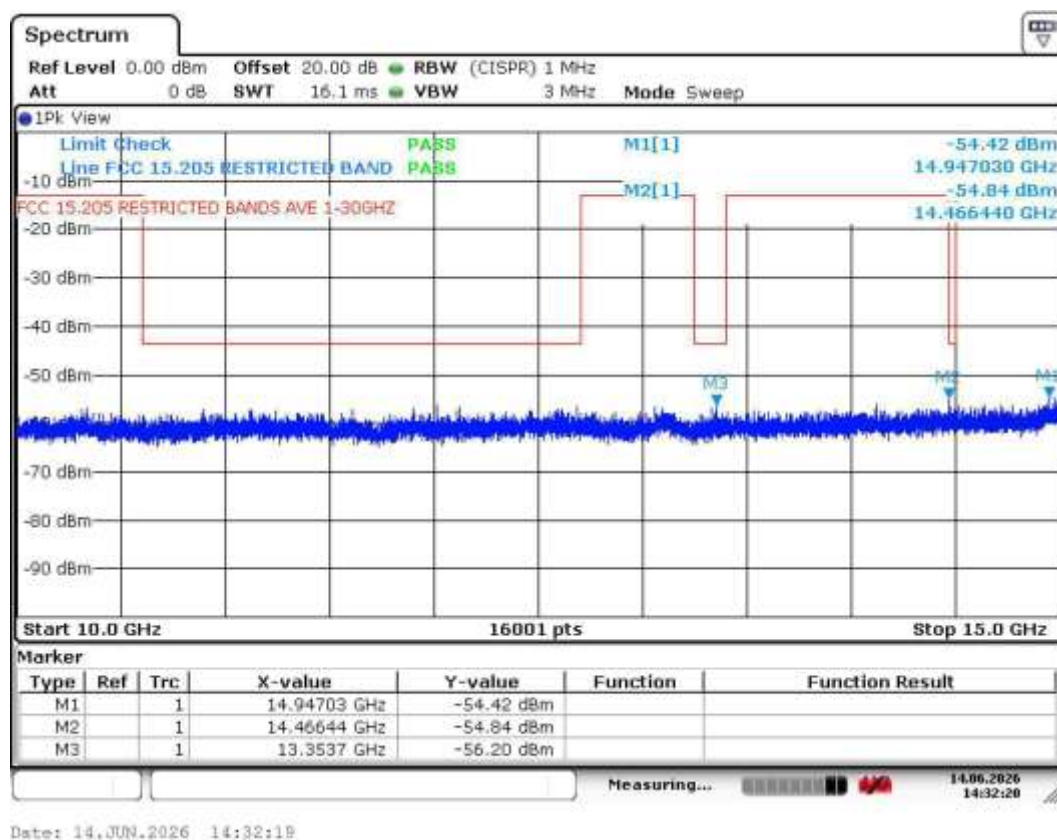
Mid Channel: 2440 MHz

Data Rate: 1Mb/s

Frequency Range: 10000 MHz to 15000 MHz

Result: Pass

Detector Function: Peak



Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

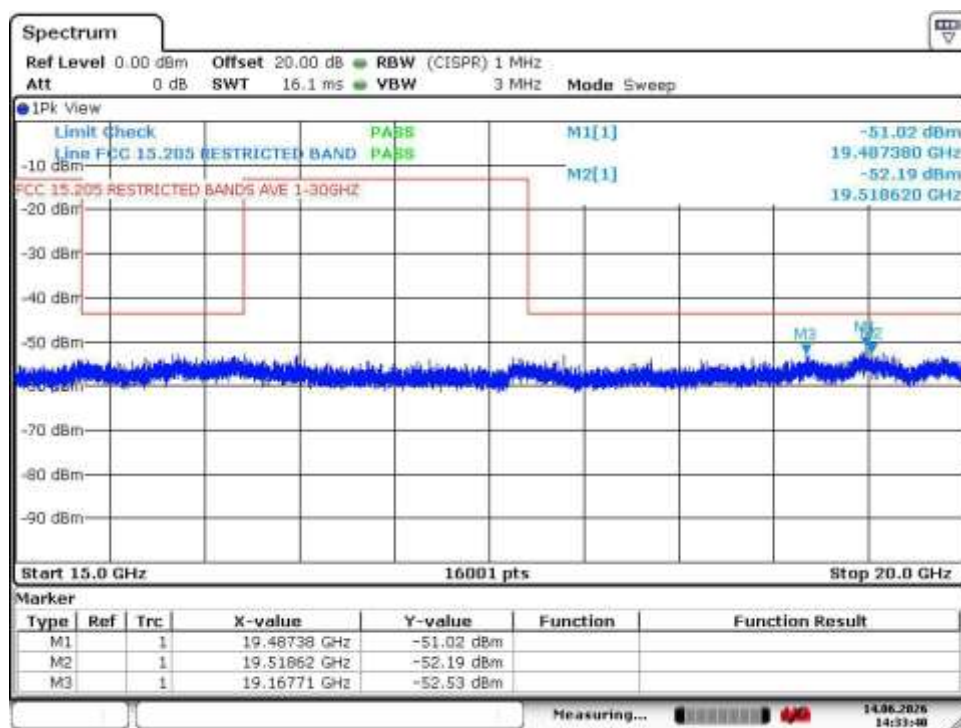
Mid Channel: 2440 MHz

Data Rate: 1Mb/s

Frequency Range: 15000 MHz to 20000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:33:40

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

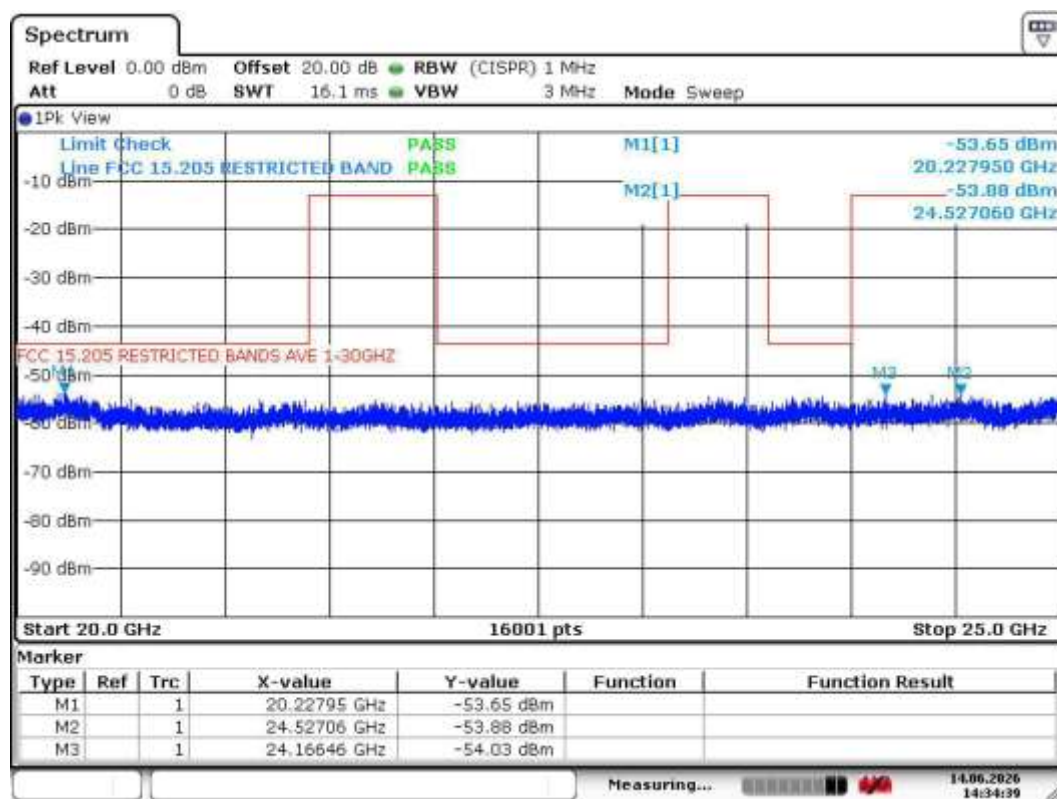
Mid Channel: 2440 MHz

Data Rate: 1Mb/s

Frequency Range: 20000 MHz to 25000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:34:39

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

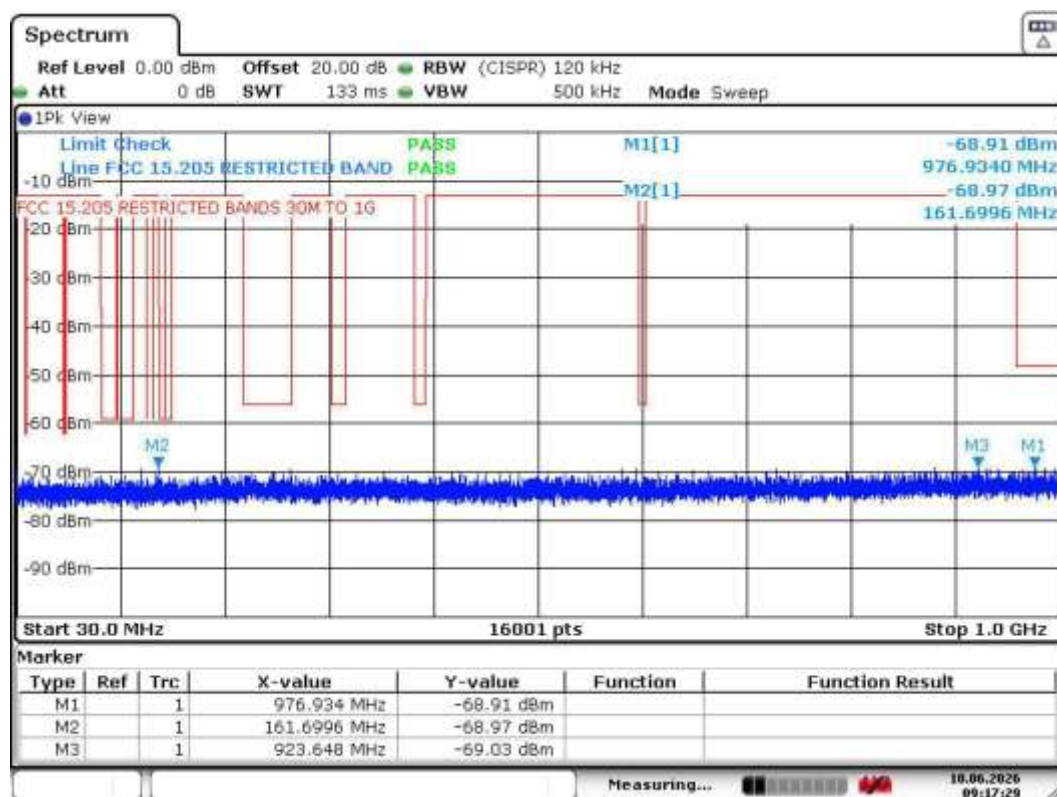
High Channel: 2480 MHz

Data Rate: 1Mb/s

Frequency Range: 30 MHz to 1000 MHz

Result: Pass

Detector Function: Peak



Date: 10.JUN.2026 09:17:29

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

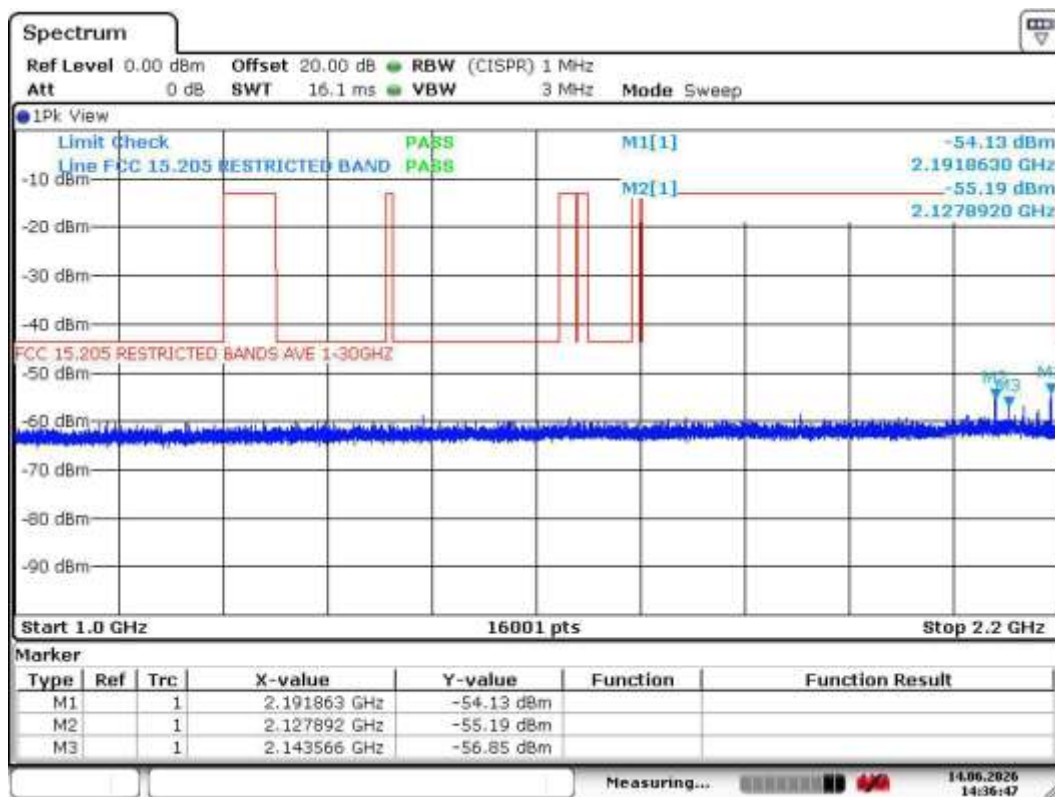
High Channel: 2480 MHz

Data Rate: 1Mb/s

Frequency Range: 1000 MHz to 2200 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:36:46

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

High Channel: 2480 MHz

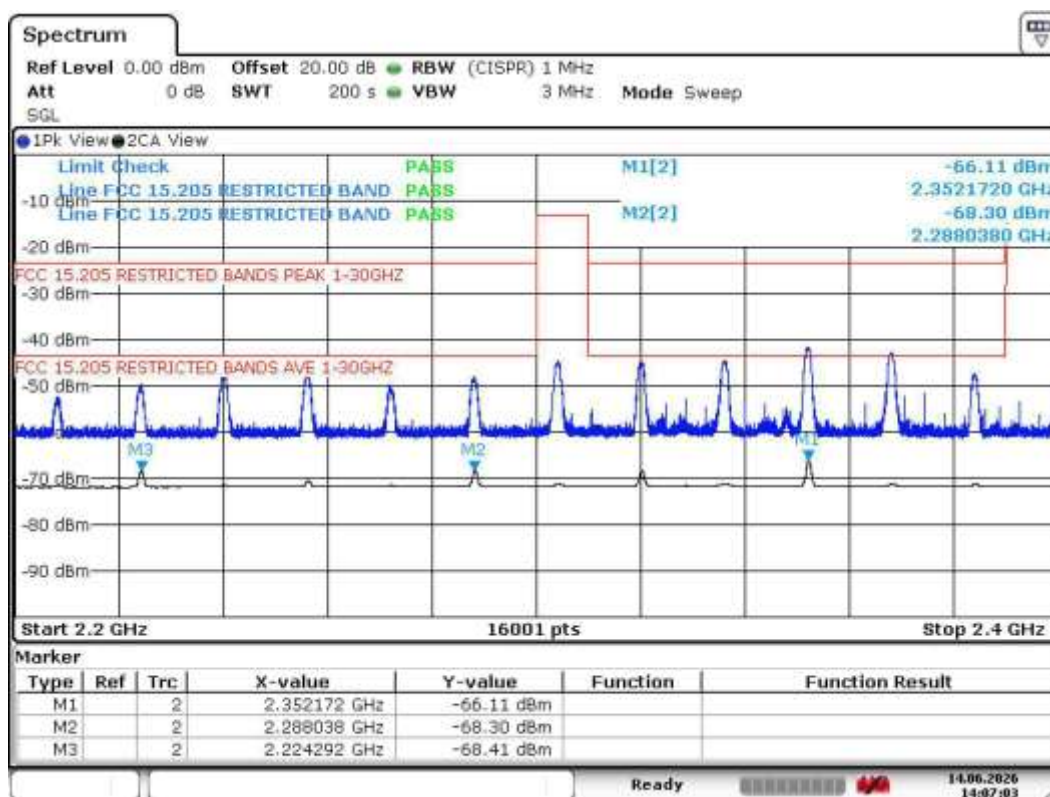
Data Rate: 1Mb/s

Frequency Range: 2200 MHz to 2400 MHz

Result: Pass

Upper Trace: Detector Function: Peak Limit: Peak

Lower Trace: Detector Function: Average Limit: Average



Date: 14.JUN.2026 14:07:04

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

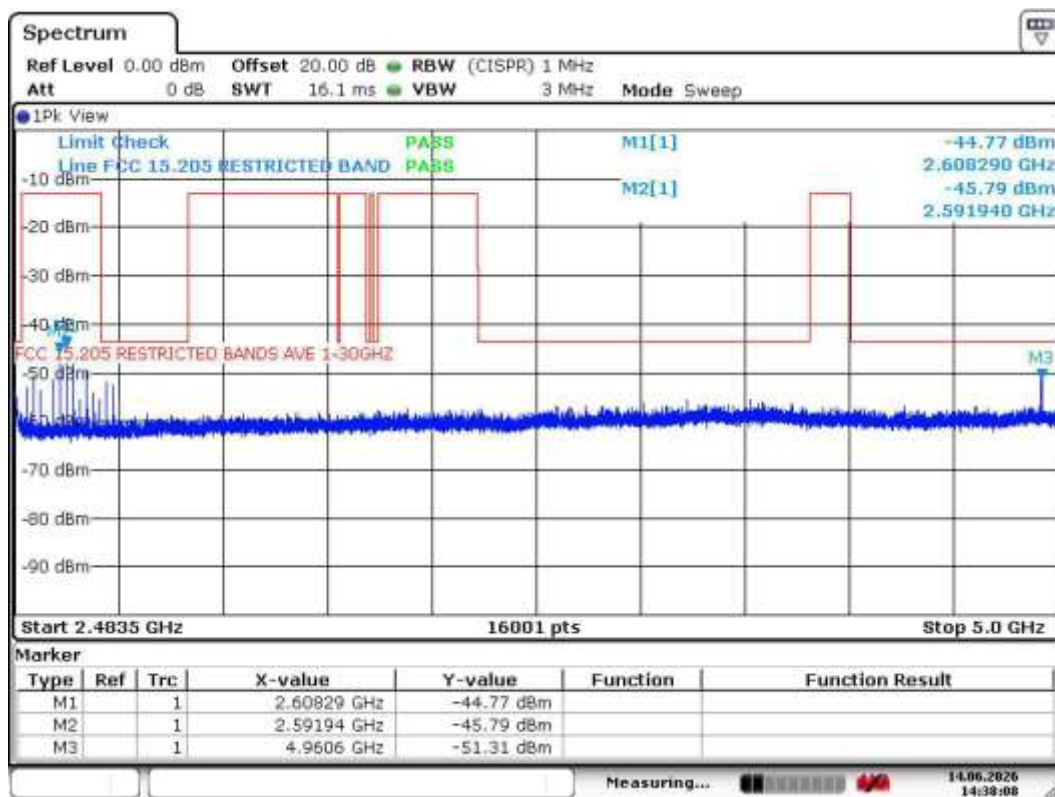
High Channel: 2480 MHz

Data Rate: 1Mb/s

Frequency Range: 2483.5 MHz to 5000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:38:07

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

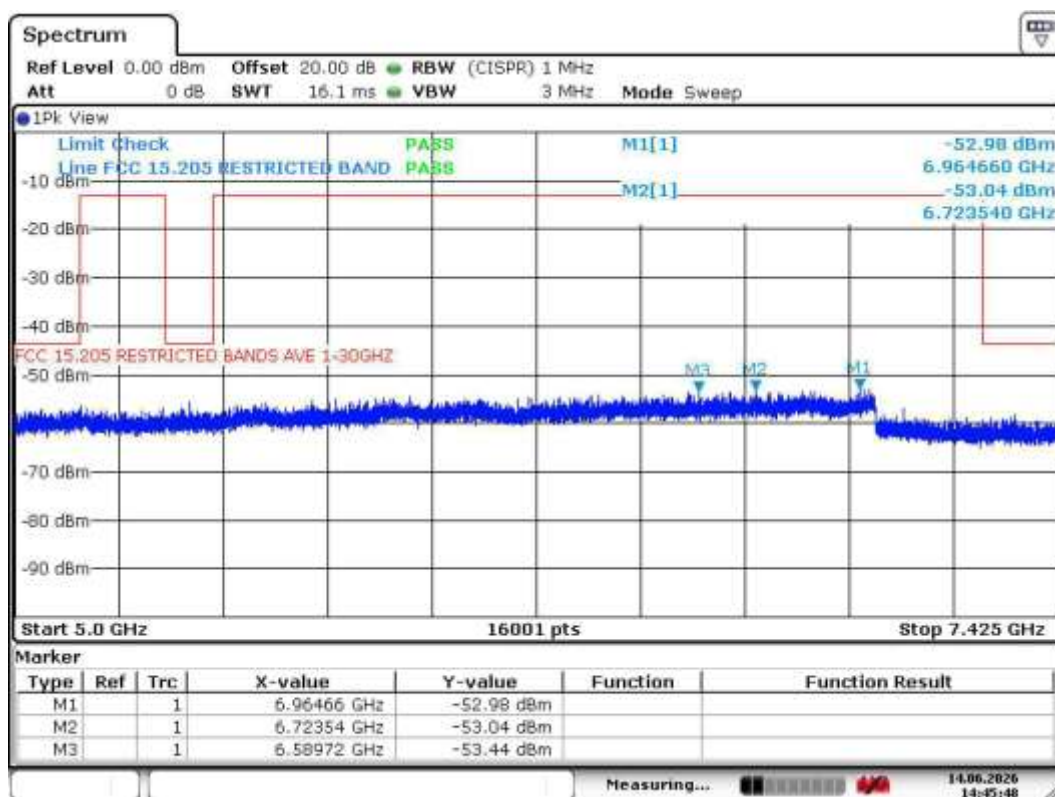
High Channel: 2480 MHz

Data Rate: 1Mb/s

Frequency Range: 5000 MHz to 7425 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:45:48

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

High Channel: 2480 MHz

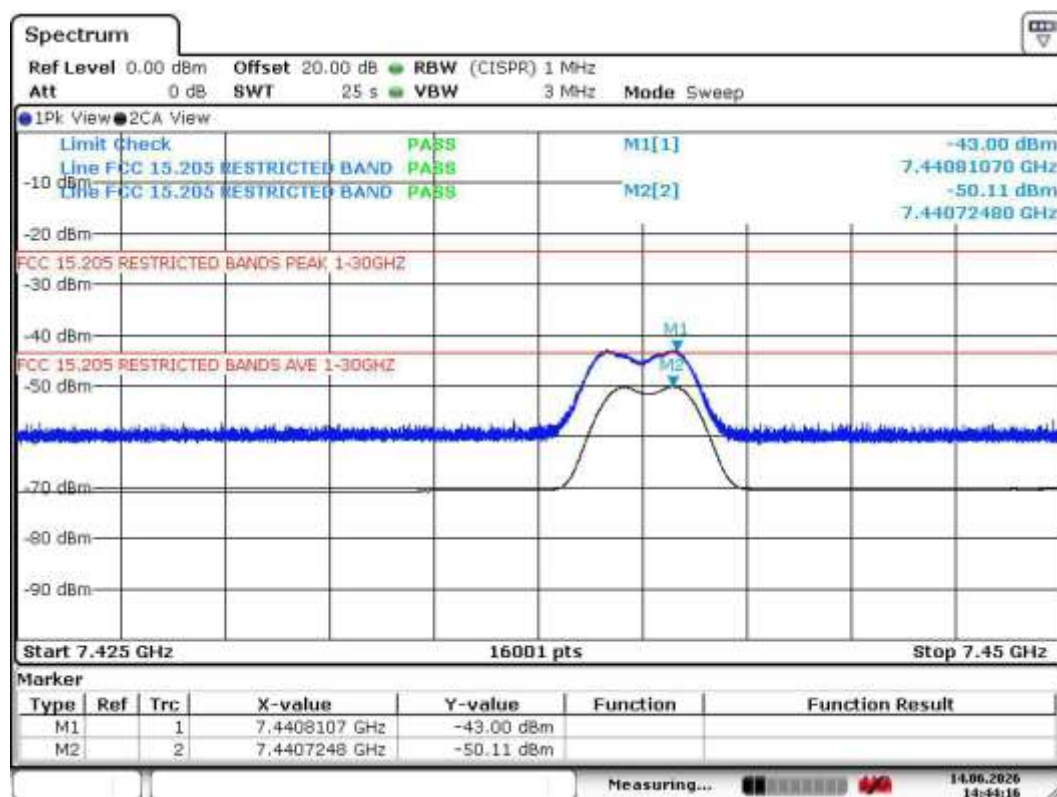
Data Rate: 1Mb/s

Frequency Range: 7425 MHz to 7450 MHz

Result: Pass

Upper Trace: Detector Function: Peak Limit: Peak

Lower Trace: Detector Function: Average Limit: Average



Date: 14.JUN.2026 14:44:15

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

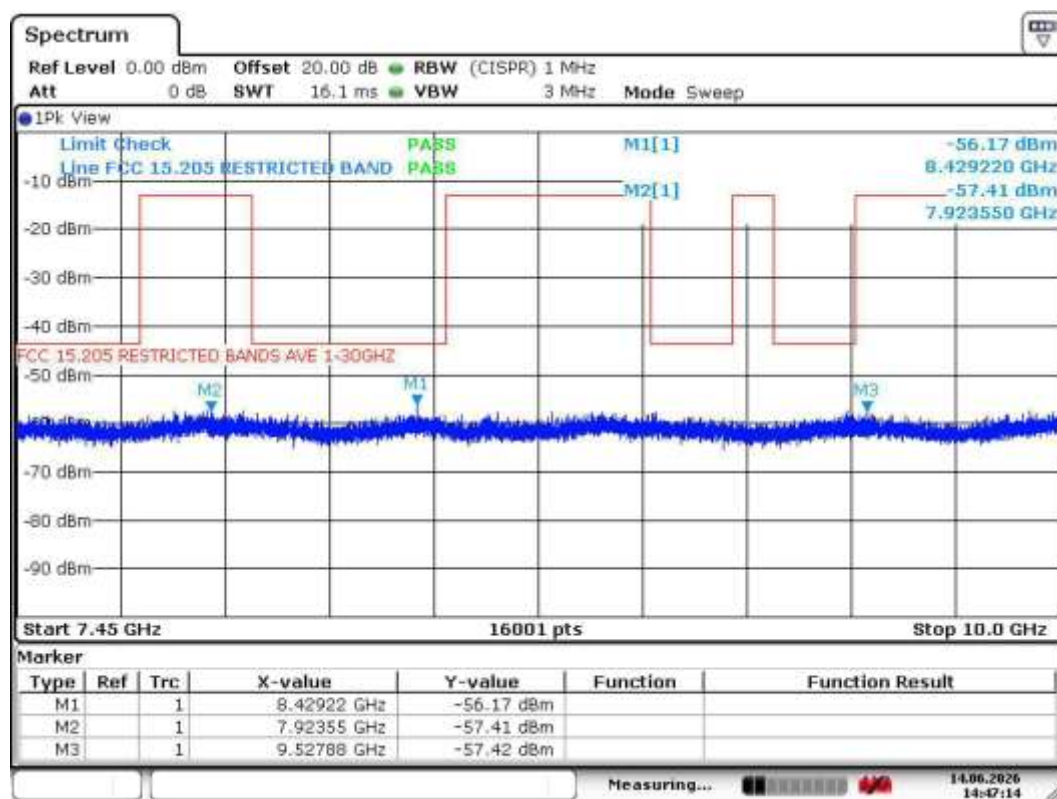
High Channel: 2480 MHz

Data Rate: 1Mb/s

Frequency Range: 7450 MHz to 10000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:47:13

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

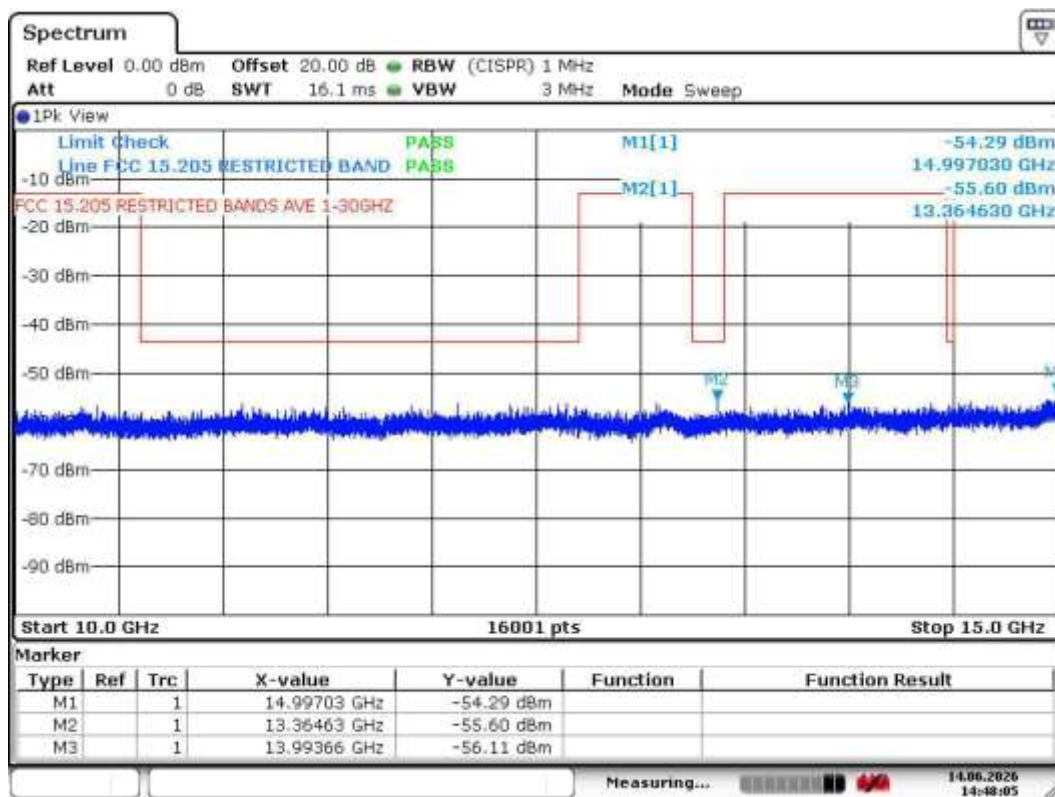
High Channel: 2480 MHz

Data Rate: 1Mb/s

Frequency Range: 10000 MHz to 15000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:48:05

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

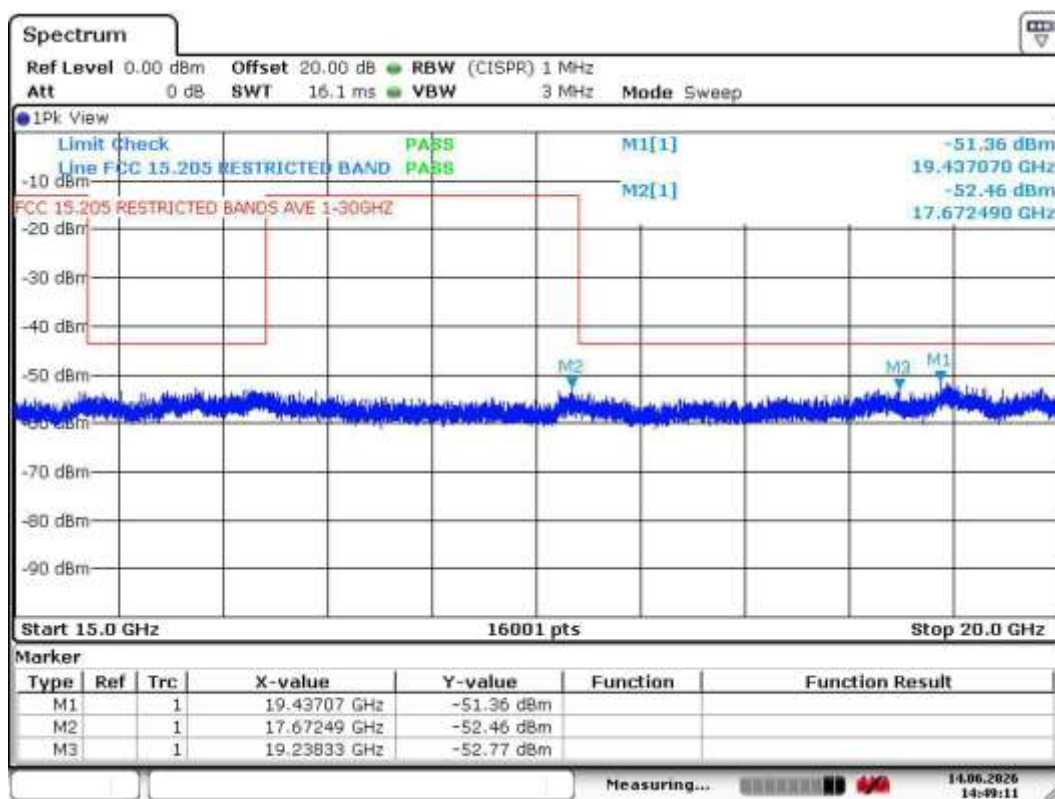
High Channel: 2480 MHz

Data Rate: 1Mb/s

Frequency Range: 15000 MHz to 20000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:49:11

Client: WiTricity

Date: 14 Jun 2026

DNB Job: 66100

EUT: Golf Cart EV Power System

Model No: GWL1400

Requirement: Emissions Below Restricted Band Limits

Tech: CL Payne

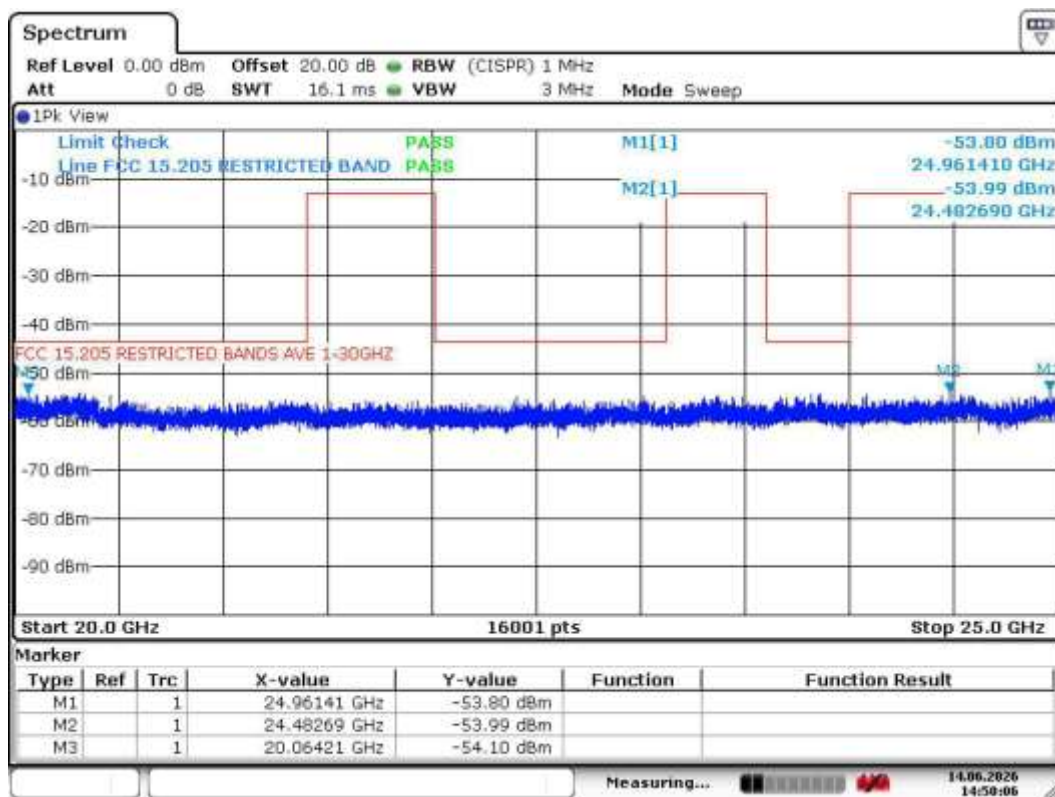
High Channel: 2480 MHz

Data Rate: 1Mb/s

Frequency Range: 20000 MHz to 25000 MHz

Result: Pass

Detector Function: Peak



Date: 14.JUN.2026 14:50:06

End of Report UT66100A-003

Certification of Test Report

FCC ID: 2BFEF-GWL1400

This report reflects testing performed and reviewed by DNB Engineering, Inc. personnel identified as "Tech: CL Payne" throughout the body of this report.

Tested by:

A handwritten signature in blue ink, appearing to read "CL Payne", is written over a yellow rectangular highlight.

Les Payne

Reviewed/Approved by:

A handwritten signature in blue ink, appearing to read "CL Payne", is written over a yellow rectangular highlight.

Les Payne