





Engineering Test Report No. 2401841-01				
Report Date	December 4, 2024			
Manufacturer Name	The Chamberlain Group LLC			
Manufacturer Address	300 Windsor Dr Oak Brook, IL 60523			
Test Item Name Model No.	DeLorean Visor Remote – CH361, CH3	63		
Date Received	November 11, 2024			
Test Dates	November 11, 2024 – November 21, 20	24		
Specifications	FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.247 Innovation, Science, and Economic Development Canada, RSS-GEN Innovation, Science, and Economic Development Canada, RSS-247			
Test Facility	Elite Electronic Engineering, Inc. 1516 Centre Circle, Downers Grove, IL 60515	FCC Reg. Number: 269750 IC Reg. Number: 2987A CAB Identifier: US0107		
Signature	Nathanul Bouchie			
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Approved by	Raymond J. Klouda, Registered Professional Engineer of Illinois – 44894			
PO Number	4900097975			

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Table of Contents

1.	Report Revision History	3
2.	Introduction	
2.1.	Scope of Tests	⊿
2.2.	Purpose	
2.3.	Identification of the EUT	
3.	Power Input	
4.	Grounding	
5.	Support Equipment	
6.	Interconnect Leads	5
7.	Modifications Made to the EUT	
8.	Modes of Operation	
9.	Test Specifications	5
10.	Test Plan	6
11.	Deviation, Additions to, or Exclusions from Test Specifications	6
12.	Laboratory Conditions	
13.	Summary	
14.	Sample Calculations	6
15.	Statement of Conformity	7
16.	Certification	
17.	Photographs of EUT	8
18.	Equipment List	10
19.	Block Diagram of Test Setup	11
20.	Effective Isotropic Radiated Power (EIRP)	12
21.	Case Spurious Radiated Emissions	15
22.	Band-Edge Compliance	32
23.	Scope of Accreditation	

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1. Report Revision History

Revision	Date	Description
_	11 DEC 2024	Initial Release of Engineering Test Report No. 2401841-01



2. Introduction

2.1. Scope of Tests

This document presents the results of a series of RF emissions tests that were performed on The Chamberlain Group LLC DeLorean Visor Remote (hereinafter referred to as the Equipment Under Test (EUT)). The EUTs were manufactured and submitted for testing by The Chamberlain Group LLC located in Oak Brook, IL.

2.2. Purpose

The test series was performed to determine if the EUTs meet the RF emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, §15.247 for a Digital Modulation intentional radiator operating within the 2400 – 2483.5MHz band.

The test series was also performed to determine if the EUT meets the RF emission requirements of the Innovation, Science, and Economic Development Canada Radio Standards Specification RSS-Gen and Innovation, Science, and Economic Development Canada Radio Standards Specification RSS-247 for a Digital Modulation intentional radiator operating within the 2400 – 2483.5MHz band.

Testing was performed in accordance with ANSI C63.10-2013.

2.3. Identification of the EUT

The EUTs were identified as follows:

EUT Identification			
Product Description	DeLorean Visor Remote		
Model/Part No.	CH361 – 3 Button Variant		
Model/Fait No.	CH363 – 1 Button Variant		
Serial No.	Sample 8 – 3 Button Variant		
Serial No.	Sample 10 – 1 Button Variant		
Size of EUT	3.25 in x 1.75 in x 0.75 in		
	CH361:		
	Hardware: 900-15630-5/014D15630 rev C		
Software/Firmware Version	Firmware: 0001006516 (DTM_BG22_TRANSMITTER) rev A.1		
Software/Filliware version	CH363:		
	Hardware: 900-15630-6/014D15630 rev C		
	Firmware: 0001006516 (DTM_BG22_TRANSMITTER) rev A.1		
Device Type	Digitally Modulated Transmission Device		
Band of Operation	2400 – 2480MHz		
Modulation Type	GFSK		
Antenna Type	Trace		
Conducted Output Power	7.2dBm		
6dB Bandwidth	802.040kHz		
Occupied Bandwidth (99% CBW)	1.053MHz		

The EUTs listed above were used throughout the test series.

3. Power Input

The EUTs were powered by 3.2VDC from internal batteries.

4. Grounding

The EUTs were not connected to ground.



5. Support Equipment

The EUTs were submitted for testing along with the following support equipment:

Description	Model #	S/N	
Support Laptop			

6. Interconnect Leads

The following interconnect cables were submitted with the test items:

Item	Description		
UART	Connects laptop to EUT		

7. Modifications Made to the EUT

No modifications were made to the EUTs during the testing.

8. Modes of Operation

The EUTs and all peripheral equipment were energized. The DUTs were programmed to transmit in one of the following modes:

Mode	Description		
BLE @ 2402MHz	Power Setting = 8dBm		
BLE @ 2440MHz	Power Setting = 8dBm		
BLE @ 2480MHz	Power Setting = 8dBm		

9. Test Specifications

The tests were performed to selected portions of, and in accordance with, the test specifications.

- Federal Communications Commission "Code of Federal Regulations", Title 47, Chapter I, Subchapter A, Part 15, Subpart C
- ANSI C63.4-2014, "American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz"
- ANSI C63.10-2013, "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices"
- Federal Communications Commission Office of Engineering and Technology Laboratory Division, Guidance For Compliance Measurements On Digital Transmission Systems, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 April 2, 2019 KDB 558074 D01v05r02
- RSS-Gen Issue 5, February 2020, Amendment 2, Innovation, Science, and Economic Development Canada, "General Requirements for Compliance of Radio Apparatus"
- RSS-247 Issue 2, February 2017, "Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices"



10. Test Plan

No test plan was provided. Instructions were provided by personnel from The Chamberlain Group LLC and used in conjunction with the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.247, Innovation, Science, and Economic Development Canada, RSS-247, and ANSI C63.4-2014 specifications.

11. Deviation, Additions to, or Exclusions from Test Specifications

There were no deviations, additions to, or exclusions from the test specifications during this test series.

12. Laboratory Conditions

The ambient parameters of the laboratory during testing were as follows:

Ambient Parameters	Value
Temperature	23.2°C
Relative Humidity	42%
Atmospheric Pressure	1014mb

13. Summary

The following EMC tests were performed and the results are shown below:

Test Description	Requirements	Test Method	S/N	Results	
Effective Isotropic Radiated Power (EIRP)	FCC 15.247	ANSI C63.10:2013	Sample 8	Conforms	
Ellective isotropic Radiated Power (EIRP)	ISED RSS-247	ANSI C03. 10.2013	Sample 10	Comonis	
Case Spurious Radiated Emissions	FCC 15.247	ANSI C63.10:2013	Sample 8	Conforms	
Case Spurious Radiated Emissions	ISED RSS-247	ANSI C03. 10.2013	Sample 10	Comonis	
Band-Edge Compliance	FCC 15.247	ANSI C63.10:2013	Sample 8	Conforms	
Band-Edge Compliance	ISED RSS-247	ANSI C03. 10.2013	Sample 10		

14. Sample Calculations

For Powerline Conducted Emissions:

The resultant voltage level (VL) is a summation in decibels (dB) of the receiver meter reading (MTR) and the cable loss factor (CF).

Formula 1: VL ($dB\mu V$) = MTR ($dB\mu V$) + CF (dB).

For Radiated Emissions:

The resultant field strength (FS) is a summation in decibels (dB) of the receiver meter reading (MTR), the antenna correction factor (AF), and the cable loss factor (CF). If an external preamplifier is used, the total is reduced by its gain (-PA). If a distance correction (DC) is required, it is added to the total.

Formula 1: FS
$$(dB\mu V/m) = MTR (dB\mu V) + AF (dB/m) + CF (dB) + (-PA (dB)) + DC (dB)$$

To convert the Field Strength $dB\mu V/m$ term to $\mu V/m$, the $dB\mu V/m$ is first divided by 20. The Base 10 AntiLog is taken of this quotient. The result is the Field Strength value in $\mu V/m$ terms.

Formula 2: FS (μ V/m) = AntiLog [(FS (dB μ V/m))/20]



15. Statement of Conformity

The Chamberlain Group LLC DeLorean Visor Remotes (Model No. CH361, Serial No. Sample 8 and Model No. CH363, Serial No. Sample 10) did fully conform to the selected requirements of FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.247 and Innovation, Science, and Economic Development Canada, RSS-247.

16. Certification

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.247 and Innovation, Science, and Economic Development Canada, RSS-247 test specifications. The data presented in this test report pertains to the EUTs as received by the customer on the test date specified. Any electrical or mechanical modifications made to the EUTs subsequent to the specified test date will serve to invalidate the data and void this certification.



17. Photographs of EUT

Photo removed for short term confidentiality reasons.
Photo removed for short term confidentiality reasons.



Photo removed for short term confidentiality reasons.
Photo removed for short term confidentiality reasons.



18. Equipment List

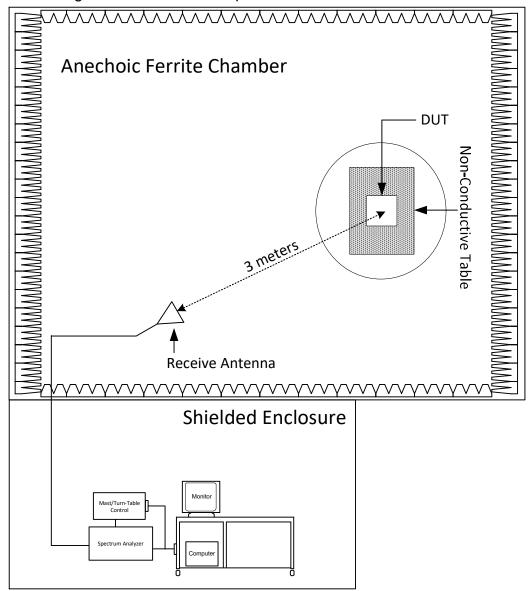
Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
APW18	PREAMPLIFER	PLANAR ELECTRONICS	PE2-30- 20G20R6G-3R0- 10-12-SFF	PL34312/2148	18-26.5GHZ	2/23/2024	2/23/2025
APW3	PREAMPLIFIER	PLANAR ELECTRONICS	PE2-35-120-5R0- 10-12	PL2924	1GHZ-20GHZ	3/20/2024	3/20/2025
CDZ4	LAB WORKSTATION	ELITE	LWS-10		WINDOWS 10	CNR	
GSE1	SIGNAL GENERATOR (40GHZ)	ROHDE & SCHWARZ	SMB100A	183099	100KHZ-40GHZ	1/25/2023	1/25/2025
GSE3	SIGNAL GENERATOR (40GHZ)	ROHDE & SCHWARZ	SMB100A	183294	100KHZ-40GHZ	1/30/2023	1/30/2025
GSFB	OSP120 BASE UNIT	ROHDE & SCHWARZ	OSP120	101071		3/30/2023	3/30/2025
GSFE	OSP120	ROHDE & SCHWARZ	OSP120	101288	.01-40GHZ	4/4/2023	4/4/2025
NHG1	STANDARD GAIN HORN ANTENNA	NARDA	638		18-26.5GHZ	NOTE 1	
NSDS1	UNIVERSAL SPHERICAL DIPOLE SOURCE	AET	USDS-H	AET-1116		NOTE 1	
NTA3	BILOG ANTENNA	TESEQ	6112D	32853	25-2000MHz	10/3/2024	10/3/2026
NWN0	DOUBLE RIDGED GUIDE ANTENNA	ETS-LINDGREN	3116	00026778	18 - 40 GHZ	12/16/2022	12/16/2024
NWQ2	DOUBLE RIDGED WAVEGUIDE ANTENNA	ETS LINDGREN	3117	66659	1GHZ-18GHZ	4/26/2024	4/26/2026
R21F	3M ANECHOIC CHAMBER NSA	EMC TEST SYSTEMS	3M ANECHOIC		30MHZ-18GHZ	3/1/2024	3/1/2025
RBG3	EMI ANALYZER	ROHDE & SCHWARZ	ESW44	101592	2HZ-44GHZ	3/7/2024	3/7/2025
RBG4	EMI ANALYZER	ROHDE & SCHWARZ	ESW44	103007	2HZ-44GHZ	3/16/2024	3/16/2025
SHC2	Power Supplies	HENGFU	HF60W-SL-24	A11372702	24V	NOTE 1	
T2S12	20DB 25W ATTENUATOR	WEINSCHEL	46-20-43	CM5724	DC-18GHZ	12/20/2023	12/20/2025
XPR0	HIGH PASS FILTER	K&L MICROWAVE	11SH10- 4800/X20000	001	4.8-20GHZ	9/14/2023	9/14/2025

N/A: Not Applicable I/O: Initial Only CNR: Calibration Not Required

NOTE 1: For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.



19. Block Diagram of Test Setup



Radiated Measurements Test Setup



20. Effective Isotropic Radiated Power (EIRP)

	EUT Information			
Manufacturer	The Chamberlain Group LLC			
Product	DeLorean Visor Remote			
Model No.	CH361			
	CH363			
Serial No.	Sample 8			
Seriai No.	Sample 10			
	BLE @ 2402MHz			
Mode	BLE @ 2440MHz			
	BLE @ 2480MHz			

	Test Setup Details
Setup Format	Tabletop
Measurement Method	Radiated
Type of Test Site	Semi-Anechoic Chamber
Test Site Used	Room 21
Type of Antennas Used	Below 1GHz: Bilog (or equivalent) Above 1GHz: Double-ridged waveguide (or equivalent)
Notes	None

Measurement Uncertainty	
	Expanded
Measurement Type	Measurement
	Uncertainty
Radiated disturbance (electric field strength on an open area test site or alternative test	4.3
site) (30 MHz – 1000 MHz)	4.0
Radiated disturbance (electric field strength on an open area test site or alternative test	3.1
site) (1 GHz – 6 GHz)	J. I

Requirements
The output power shall not exceed 4W (36dBm).

Procedure

The EUT was placed on the non-conductive stand and set to transmit. A double ridged waveguide antenna was placed at a test distance of 3 meters from the EUT. The resolution bandwidth (RBW) of the spectrum analyzer was set to greater than the 6dB bandwidth. The EUT was maximized for worst case emissions (or maximum output power) at the measuring antenna. The maximum meter reading was recorded. The peak power output was measured for the low, middle, and high channels.

The equivalent power was determined from the field intensity levels measured at 3 meters using the substitution method. To determine the emission power, a dipole antenna (double ridged waveguide antenna for all measurements above 1GHz) was then set in place of the EUT and connected to a calibrated signal generator. The output of the signal generator was adjusted to match the received level at the spectrum analyzer. The signal level was recorded. The reading was then corrected to compensate for cable loss (and antenna gain for all measurements above 1GHz), as required. The peak power output was calculated for low, middle, and high hopping frequencies.



	Test Details
Manufacturer	The Chamberlain Group LLC
EUT	DeLorean Visor Remote
Model No.	CH361
Serial No.	Sample 8
	BLE @ 2402MHz
Mode	BLE @ 2440MHz
	BLE @ 2480MHz
Result	Max EIRP = 15.1mW (11.8dBm)
Notes	None

Freq (MHz)	Ant Pol	Wide BW Meter Reading (dBµV)	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total (dBµV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2402.00	Н	70.1	3.4	32.6	0.0	106.1	10.8	36.0	-25.2
2402.00	V	66.2	3.4	32.6	0.0	102.3	7.0	36.0	-29.0
2440.00	Н	71.0	3.5	32.6	0.0	107.1	11.8	36.0	-24.2
2440.00	V	64.9	3.5	32.6	0.0	101.0	5.7	36.0	-30.3
2490.00	Н	70.1	3.5	32.7	0.0	106.3	11.0	36.0	-25.0
2480.00	V	62.5	3.5	32.7	0.0	98.7	3.4	36.0	-32.6



	Test Details
Manufacturer	The Chamberlain Group LLC
EUT	DeLorean Visor Remote
Model No.	CH363
Serial No.	Sample 10
	BLE @ 2402MHz
Mode	BLE @ 2440MHz
	BLE @ 2480MHz
Result	Max EIRP = 13.8mW (11.4dBm)
Notes	None

Freq (MHz)	Ant Pol	Wide BW Meter Reading (dBµV)	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total (dBµV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2402.00	Н	70.7	3.4	32.6	0.0	106.7	11.4	36.0	-24.6
2402.00	V	65.1	3.4	32.6	0.0	101.1	5.8	36.0	-30.2
2440.00	Н	70.0	3.5	32.6	0.0	106.1	10.8	36.0	-25.2
2440.00	V	64.6	3.5	32.6	0.0	100.7	5.4	36.0	-30.6
2480.00	Н	70.0	3.5	32.7	0.0	106.2	10.9	36.0	-25.1
2400.00	V	65.2	3.5	32.7	0.0	101.4	6.1	36.0	-29.9



21. Case Spurious Radiated Emissions

	EUT Information
Manufacturer The Chamberlain Group LLC	
Product	DeLorean Visor Remote
Model No.	CH361
	CH363
Serial No.	Sample 8
Serial No.	Sample 10
	BLE @ 2402MHz
Mode	BLE @ 2440MHz
	BLE @ 2480MHz

	Test Setup Details
Setup Format	Tabletop
Type of Test Site	Semi-Anechoic Chamber
Test Site Used	Room 21
Type of Antennas Used	Below 1GHz: Bilog (or equivalent)
	Above 1GHz: Double-Ridged Waveguide (or equivalent)
Notes	None

Measurement Uncertainty	
Measurement Type	Expanded Measurement Uncertainty
Radiated disturbance (electric field strength on an open area test site or alternative test site) (30 MHz – 1000 MHz)	4.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (1 GHz – 6 GHz)	3.1
Radiated disturbance (electric field strength on an open area test site or alternative test site) (6 GHz – 18 GHz)	3.2
Radiated disturbance (electric field strength on an open area test site or alternative test site) (18 GHz – 26.5 GHz)	3.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (26.5 GHz – 40 GHz)	3.4



Procedure

Radiated measurements were performed in a 32ft. x 20ft. x 14ft. high shielded enclosure. The shielded enclosure prevents emissions from other sources, such as radio and TV stations from interfering with the measurements. All powerlines and signal lines entering the enclosure pass through filters on the enclosure wall. The powerline filters prevent extraneous signals from entering the enclosure on these leads.

Preliminary radiated emissions tests were performed to determine the emission characteristics of the EUT. For the preliminary test, a broadband measuring antenna was positioned at a 3 meter distance from the EUT. The entire frequency range from 30MHz to 18.0GHz was investigated using a peak detector function.

The final open field emission tests were then manually performed over the frequency range of 30MHz to 18.0GHz.

- 1) For all harmonics not in the restricted bands, the following procedure was used:
 - a) The field strength of the fundamental was measured using a double ridged waveguide antenna. The waveguide antenna was positioned at a 3 meter distance from the EUT. The EUT was placed on a 1.5 meter high non-conductive stand. A peak detector with a resolution bandwidth of 100 kHz was used on the spectrum analyzer.
 - b) The field strengths of all of the harmonics not in the restricted band were then measured using a double-ridged waveguide antenna. The waveguide antenna was positioned at a 3 meter distance from the EUT. The EUT was placed on a 1.5 meter high non-conductive stand. A peak detector with a resolution bandwidth of 100kHz was used on the spectrum analyzer.
 - c) To ensure that maximum or worst case emission levels at the fundamental and harmonics were measured, the following steps were taken when measuring the fundamental emissions and the spurious emissions:
 - i) The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
 - iii) The measuring antenna was raised and lowered for each antenna polarization to maximize the readings.
 - iv) In instances where it was necessary to use a shortened cable between the measuring antenna and the spectrum analyzer, the measuring antenna was not raised or lowered to ensure maximized readings. Instead, the EUT was rotated through all axis to ensure the maximum readings were recorded for the EUT.
 - d) All harmonics not in the restricted bands must be at least 20dB below levels measured at the fundamental. However, attenuation below the general limits specified in §15.209(a) is not required.
- 2) For all emissions in the restricted bands, the following procedure was used:
 - a) The field strengths of all emissions below 1GHz were measured using a bi-log antenna. The bi-log antenna was positioned at a 3 meter distance from the EUT. The EUT was placed on an 80cm high non-conductive stand. A peak detector with a resolution bandwidth of 100 kHz was used on the spectrum analyzer.
 - b) The field strengths of all emissions above 1GHz were measured using a double-ridged waveguide antenna. The waveguide antenna was positioned at a 3 meter distance from the EUT. The EUT was placed on a 1.5 meter high non-conductive stand. A peak detector with a resolution bandwidth of 1MHz was used on the spectrum analyzer.
 - c) To ensure that maximum or worst case emission levels were measured, the following steps were taken when taking all measurements:
 - The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - ii) Since the measuring antenna is linearly polarized, both horizontal and vertical field components



were measured.

- iii) The measuring antenna was raised and lowered for each antenna polarization to maximize the readings.
- iv) In instances where it was necessary to use a shortened cable between the measuring antenna and the spectrum analyzer, the measuring antenna was not raised or lowered to ensure maximized readings. Instead, the EUT was rotated through all axis to ensure the maximum readings were recorded for the EUT.
- d) For all radiated emissions measurements below 1GHz, if the peak reading is below the limits listed in §15.209(a), no further measurements are required. If, however, the peak readings exceed the limits listed in §15.209(a), then the emissions are remeasured using a quasi-peak detector.
- e) For all radiated emissions measurements above 1GHz, the peak readings must comply with the §15.35(b) limits. §15.35(b) states that when average radiated emissions measurements are specified, there also is a limit on the peak level of the radiated emissions. The limit on the peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. Therefore, all peak readings above 1GHz must be no greater than 20dB above the limits specified in §15.209(a).
- f) Next, for all radiated emissions measurements above 1GHz, the resolution bandwidth was set to 1MHz. The analyzer was set to linear mode with a 10Hz video bandwidth in order to simulate an average detector. An average reading was taken.



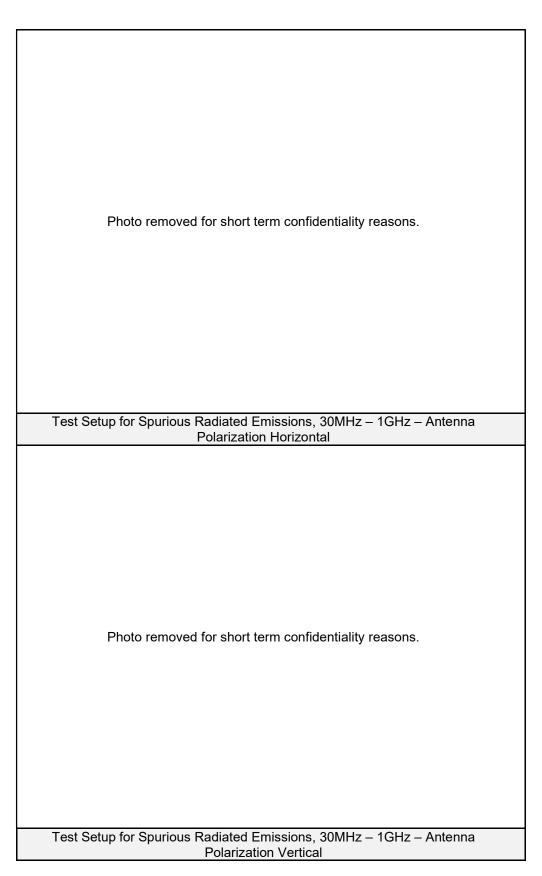




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Test Setup for Spurious Radiated Emissions, Above 1GHz – Antenna Polarization Horizontal
Photo removed for short term confidentiality reasons. Test Setup for Spurious Radiated Emissions, Above 1GHz – Antenna Polarization
Vertical



	Test Details								
Manufacturer	The Chamberlain Group LLC								
EUT	DeLorean Visor Remote								
Model No.	CH361								
Serial No.	Sample 8								
Mode	BLE @ 2402MHz								
Frequency Tested	2402MHz								
Notes	Peak Measurements in the Restricted Bands								

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dB)
	H	55.9	Allibielit	4.8	34.3	-39.0	56.1	638.7	5000.0	-17.9
4804.00	V	52.0		4.8	34.3	-39.0	52.2	405.3	5000.0	-21.8
12010.00	Н	54.4		8.0	38.8	-38.6	62.6	1354.1	5000.0	-11.3
12010.00	V	53.7		8.0	38.8	-38.6	61.9	1250.7	5000.0	-12.0

	Test Details								
Manufacturer	The Chamberlain Group LLC								
EUT	DeLorean Visor Remote								
Model No.	CH361								
Serial No.	Sample 8								
Mode	BLE @ 2402MHz								
Frequency Tested	2402MHz								
Notes	Average Measurements in the Restricted Bands								

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBµV/m)	Average Total at 3m (µV/m)	Average Limit at 3m (µV/m)	Margin (dB)
4004.00	Н	49.66		4.8	34.3	-39.0	-24.6	25.2	18.3	500.0	-28.7
4804.00	V	41.22		4.8	34.3	-39.0	-24.6	16.8	6.9	500.0	-37.2
12010.00	Н	44.70		8.0	38.8	-38.6	-24.6	28.4	26.2	500.0	-25.6
12010.00	V	43.33		8.0	38.8	-38.6	-24.6	27.0	22.4	500.0	-27.0



	Test Details							
Manufacturer	The Chamberlain Group LLC							
EUT	DeLorean Visor Remote							
Model No.	CH361							
Serial No.	Sample 8							
Mode	BLE @ 2402MHz							
Frequency Tested	2402MHz							
Notes	Peak Measurements in Non-Restricted Bands							

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dB)
7206.00	Н	50.45		6.1	36.3	-39.0	53.8	491.9	16983.7	-30.8
7200.00	V	48.03		6.1	36.3	-39.0	51.4	372.3	16983.7	-33.2
9608.00	Н	44.66		6.8	37.1	-38.8	49.8	308.6	16983.7	-34.8
9000.00	V	45.40		6.8	37.1	-38.8	50.5	336.1	16983.7	-34.1



	Test Details							
Manufacturer	The Chamberlain Group LLC							
EUT	DeLorean Visor Remote							
Model No.	CH361							
Serial No.	Sample 8							
Mode	BLE @ 2440MHz							
Frequency Tested	2440MHz							
Notes	Peak Measurements in the Restricted Bands							

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dB)
4880.00	Н	55.0		4.9	34.2	-39.0	55.1	568.1	5000.0	-18.9
4000.00	V	51.6		4.9	34.2	-39.0	51.6	381.9	5000.0	-22.3
7320.00	Н	56.2		6.2	36.3	-39.0	59.7	961.5	5000.0	-14.3
7320.00	V	54.3		6.2	36.3	-39.0	57.7	765.5	5000.0	-16.3
12200.00	Н	51.6		8.0	38.9	-38.5	59.9	993.8	5000.0	-14.0
12200.00	V	52.7		8.0	38.9	-38.5	61.0	1122.7	5000.0	-13.0

	Test Details								
Manufacturer	The Chamberlain Group LLC								
EUT	DeLorean Visor Remote								
Model No.	CH361								
Serial No.	Sample 8								
Mode	BLE @ 2440MHz								
Frequency Tested	2440MHz								
Notes	Average Measurements in the Restricted Bands								

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBµV/m)	Average Total at 3m (µV/m)	Average Limit at 3m (µV/m)	Margin (dB)
4880.00	Н	48.37		4.9	34.2	-39.0	-24.6	23.9	15.6	500.0	-30.1
4880.00	V	40.41		4.9	34.2	-39.0	-24.6	15.9	6.2	500.0	-38.1
7320.00	Н	49.12		6.2	36.3	-39.0	-24.6	28.0	25.0	500.0	-26.0
7320.00	V	46.16		6.2	36.3	-39.0	-24.6	25.0	17.8	500.0	-29.0
12200.00	Н	41.63		8.0	38.9	-38.5	-24.6	25.4	18.6	500.0	-28.6
12200.00	V	43.49		8.0	38.9	-38.5	-24.6	27.2	23.0	500.0	-26.7



	Test Details							
Manufacturer	The Chamberlain Group LLC							
EUT	DeLorean Visor Remote							
Model No.	CH361							
Serial No.	Sample 8							
Mode	BLE @ 2440MHz							
Frequency Tested	2440MHz							
Notes	Peak Measurements in Non-Restricted Bands							

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dB)
0760.00	Н	44.72		6.9	37.2	-38.8	50.0	317.1	21299.1	-36.5
9760.00	V	45.88		6.9	37.2	-38.8	51.2	362.4	21299.1	-35.4



	Test Details								
Manufacturer	The Chamberlain Group LLC								
EUT	DeLorean Visor Remote								
Model No.	CH361								
Serial No.	Sample 8								
Mode	BLE @ 2480MHz								
Frequency Tested	2480MHz								
Notes	Peak Measurements in the Restricted Bands								

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dB)
4960.00	Н	55.1		4.9	34.1	-39.0	55.1	571.5	5000.0	-18.8
4900.00	V	51.3		4.9	34.1	-39.0	51.3	369.4	5000.0	-22.6
7440.00	Н	55.4		6.2	36.3	-39.0	58.9	884.2	5000.0	-15.0
7440.00	V	55.6		6.2	36.3	-39.0	59.1	903.8	5000.0	-14.9
10100 00	Н	51.0		8.0	38.9	-38.5	59.4	934.7	5000.0	-14.6
12400.00	V	52.8		8.0	38.9	-38.5	61.2	1143.3	5000.0	-12.8

	Test Details							
Manufacturer	The Chamberlain Group LLC							
EUT	DeLorean Visor Remote							
Model No.	CH361							
Serial No.	Sample 8							
Mode	BLE @ 2480MHz							
Frequency Tested	2480MHz							
Notes	Average Measurements in the Restricted Bands							

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBµV/m)	Average Total at 3m (µV/m)	Average Limit at 3m (µV/m)	Margin (dB)
4960.00	Н	48.37		4.9	34.1	-39.0	-24.6	23.8	15.5	500.0	-30.2
4900.00	V	37.94		4.9	34.1	-39.0	-24.6	13.4	4.7	500.0	-40.6
7440.00	Н	48.46		6.2	36.3	-39.0	-24.6	27.4	23.5	500.0	-26.6
7440.00	V	48.83		6.2	36.3	-39.0	-24.6	27.8	24.5	500.0	-26.2
10100.00	Н	40.72		8.0	38.9	-38.5	-24.6	24.6	16.9	500.0	-29.4
12400.00	V	42.76		8.0	38.9	-38.5	-24.6	26.6	21.4	500.0	-27.4



	Test Details							
Manufacturer	The Chamberlain Group LLC							
EUT	DeLorean Visor Remote							
Model No.	CH361							
Serial No.	Sample 8							
Mode	BLE @ 2480MHz							
Frequency Tested	2480MHz							
Notes	Peak Measurements in Non-Restricted Bands							

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dB)
0020.00	Н	44.48		7.0	37.2	-38.8	49.8	309.8	18832.6	-35.7
9920.00	V	45.89		7.0	37.2	-38.8	51.2	364.4	18832.6	-34.3



	Test Details							
Manufacturer	The Chamberlain Group LLC							
EUT	DeLorean Visor Remote							
Model No.	CH363							
Serial No.	Sample 10							
Mode	BLE @ 2402MHz							
Frequency Tested	2402MHz							
Notes	Peak Measurements in the Restricted Bands							

Freq (MHz)	Ant	Meter Reading (dBµV)	Ambient	Cable Factor	Antenna Factor (dB/m)	Pre Amp	Peak Total at 3m (dBµV/m)	Peak Total at 3m	Peak Limit at 3m (µV/m)	Margin
(IVITZ)	Pol		Ambient	(dB)		(dB)		(µV/m)	_ \	(dB)
4804.00	Н	56.8		4.8	34.3	-39.0	56.9	702.0	5000.0	-17.1
4004.00	V	51.6		4.8	34.3	-39.0	51.7	385.8	5000.0	-22.3
12010.00	Н	52.5		8.0	38.8	-38.6	60.8	1095.6	5000.0	-13.2
12010.00	V	52.5		8.0	38.8	-38.6	60.7	1089.3	5000.0	-13.2

	Test Details								
Manufacturer	The Chamberlain Group LLC								
EUT	DeLorean Visor Remote								
Model No.	CH363								
Serial No.	Sample 10								
Mode	BLE @ 2402MHz								
Frequency Tested	2402MHz								
Notes	Average Measurements in the Restricted Bands								

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBµV/m)	Average Total at 3m (µV/m)	Average Limit at 3m (µV/m)	Margin (dB)
4904.00	Н	50.80		4.8	34.3	-39.0	0.0	51.0	353.4	500.0	-3.0
4804.00	V	37.54		4.8	34.3	-39.0	0.0	37.7	76.8	500.0	-16.3
12010.00	Н	39.46		8.0	38.8	-38.6	0.0	47.7	243.0	500.0	-6.3
12010.00	V	39.22		8.0	38.8	-38.6	0.0	47.5	236.4	500.0	-6.5



	Test Details							
Manufacturer	The Chamberlain Group LLC							
EUT	DeLorean Visor Remote							
Model No.	CH363							
Serial No.	Sample 10							
Mode	BLE @ 2402MHz							
Frequency Tested	2402MHz							
Notes	Peak Measurements in Non-Restricted Bands							

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dB)
7206.00	Н	49.48		6.1	36.3	-39.0	52.9	439.9	14240.8	-30.2
7200.00	V	47.94		6.1	36.3	-39.0	51.3	368.5	14240.8	-31.7
9608.00	Н	45.54		6.8	37.1	-38.8	50.7	341.5	14240.8	-32.4
9606.00	V	45.03		6.8	37.1	-38.8	50.2	322.0	14240.8	-32.9
14412.00	Н	40.09	*	8.7	39.4	-37.9	50.4	329.5	14240.8	-32.7
144 12.00	V	40.51	*	8.7	39.4	-37.9	50.8	345.9	14240.8	-32.3
16914.00	Н	40.37		9.4	42.2	-37.3	54.8	547.2	14240.8	-28.3
16814.00	V	39.66	*	9.4	42.2	-37.3	54.1	504.3	14240.8	-29.0



	Test Details							
Manufacturer	The Chamberlain Group LLC							
EUT	DeLorean Visor Remote							
Model No.	CH363							
Serial No.	Sample 10							
Mode	BLE @ 2440MHz							
Frequency Tested	2440MHz							
Notes	Peak Measurements in the Restricted Bands							

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dB)
4880.00	Н	55.6		4.9	34.2	-39.0	55.6	605.3	5000.0	-18.3
4660.00	V	52.4		4.9	34.2	-39.0	52.5	421.2	5000.0	-21.5
7320.00	Н	54.7		6.2	36.3	-39.0	58.1	804.4	5000.0	-15.9
7320.00	V	55.1		6.2	36.3	-39.0	58.6	847.1	5000.0	-15.4
12200.00	Н	51.0		8.0	38.9	-38.5	59.3	926.4	5000.0	-14.6
12200.00	V	52.4		8.0	38.9	-38.5	60.7	1084.6	5000.0	-13.3

	Test Details							
Manufacturer The Chamberlain Group LLC								
EUT	DeLorean Visor Remote							
Model No.	CH363							
Serial No.	Sample 10							
Mode	BLE @ 2440MHz							
Frequency Tested	2440MHz							
Notes	Average Measurements in the Restricted Bands							

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBµV/m)	Average Total at 3m (µV/m)	Average Limit at 3m (µV/m)	Margin (dB)
4880.00	Н	49.42		4.9	34.2	-39.0	0.0	49.5	298.2	500.0	-4.5
4000.00	V	43.41		4.9	34.2	-39.0	0.0	43.5	149.3	500.0	-10.5
7320.00	Н	45.60		6.2	36.3	-39.0	0.0	49.0	282.8	500.0	-5.0
7320.00	V	46.86		6.2	36.3	-39.0	0.0	50.3	326.9	500.0	-3.7
12200.00	Н	39.12		8.0	38.9	-38.5	0.0	47.4	235.7	500.0	-6.5
12200.00	V	40.96		8.0	38.9	-38.5	0.0	49.3	291.3	500.0	-4.7



	Test Details							
Manufacturer	The Chamberlain Group LLC							
EUT	DeLorean Visor Remote							
Model No.	CH363							
Serial No.	Sample 10							
Mode	BLE @ 2440MHz							
Frequency Tested	2440MHz							
Notes	Peak Measurements in Non-Restricted Bands							

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dB)
0760.00	Н	43.71		6.9	37.2	-38.8	49.0	282.3	17715.8	-36.0
9760.00	V	42.57		6.9	37.2	-38.8	47.9	247.6	17715.8	-37.1



	Test Details								
Manufacturer	The Chamberlain Group LLC								
EUT	DeLorean Visor Remote								
Model No.	CH363								
Serial No.	Sample 10								
Mode	BLE @ 2480MHz								
Frequency Tested	2480MHz								
Notes	Peak Measurements in the Restricted Bands								

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dB)
4960.00	Н	55.2		4.9	34.1	-39.0	55.3	579.4	5000.0	-18.7
4900.00	V	52.6		4.9	34.1	-39.0	52.7	429.5	5000.0	-21.3
7440.00	Н	55.6		6.2	36.3	-39.0	59.1	904.8	5000.0	-14.8
7440.00	V	55.5		6.2	36.3	-39.0	59.1	896.5	5000.0	-14.9
12400.00	Н	51.6		8.0	38.9	-38.5	60.0	1001.5	5000.0	-14.0
12400.00	V	52.8		8.0	38.9	-38.5	61.2	1144.6	5000.0	-12.8

	Test Details							
Manufacturer The Chamberlain Group LLC								
EUT	DeLorean Visor Remote							
Model No.	CH363							
Serial No.	Sample 10							
Mode	BLE @ 2480MHz							
Frequency Tested	2480MHz							
Notes	Average Measurements in the Restricted Bands							

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBµV/m)	Average Total at 3m (µV/m)	Average Limit at 3m (µV/m)	Margin (dB)
4960.00	Н	49.85		4.9	34.1	-39.0	0.0	49.9	311.5	500.0	-4.1
4900.00	V	45.37		4.9	34.1	-39.0	0.0	45.4	186.0	500.0	-8.6
7440.00	Н	49.67		6.2	36.3	-39.0	0.0	53.2	457.1	500.0	-0.8
7440.00	V	49.42		6.2	36.3	-39.0	0.0	53.0	444.2	500.0	-1.0
12400.00	Н	41.72		8.0	38.9	-38.5	0.0	50.1	321.1	500.0	-3.8
12400.00	V	44.83		8.0	38.9	-38.5	0.0	53.2	459.4	500.0	-0.7



	Test Details							
Manufacturer	The Chamberlain Group LLC							
EUT	DeLorean Visor Remote							
Model No.	CH363							
Serial No.	Sample 10							
Mode	BLE @ 2480MHz							
Frequency Tested	2480MHz							
Notes	Peak Measurements in Non-Restricted Bands							

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dB)
0000 00	Н	43.51		7.0	37.2	-38.8	48.9	277.1	17758.6	-36.1
9920.00	V	43.24		7.0	37.2	-38.8	48.6	268.6	17758.6	-36.4



22. Band-Edge Compliance

EUT Information		
Manufacturer	The Chamberlain Group LLC	
Product	DeLorean Visor Remote	
Model No.	CH361	
	CH363	
Serial No.	Sample 8	
	Sample 10	
Mode	BLE @ 2402MHz	
	BLE @ 2480MHz	

Test Setup Details		
Setup Format	Tabletop	
Height of Support	N/A	
Measurement Method	Radiated	
Type of Test Site	Semi-Anechoic Chamber	
Test Site Used	Room 21	
Type of Antennas Used	Double-Ridged Waveguide	

Measurement Uncertainty		
	Expanded	
Measurement Type	Measurement	
	Uncertainty	
Radiated disturbance (electric field strength on an open area test site or alternative test	4.3	
site) (30 MHz – 1000 MHz)	4.3	
Radiated disturbance (electric field strength on an open area test site or alternative test	3.1	
site) (1 GHz – 6 GHz)	3.1	

Procedure

1) Low Band Edge:

- a) The antenna port of the EUT was connected to the spectrum analyzer through an R&S OSP120 RF control and switch.
- b) The EUT was set to transmit continuously at the channel closest to the low band-edge.
- c) To determine the band edge compliance, the following spectrum analyzer settings were used:
 - Center Frequency = 2400MHz (low band-edge frequency).
 - 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 which fall outside of the authorized band of operation.
 - o Resolution Bandwidth (RBW) = ≥ 1% of the span.
 - o 'Max-Hold' function was engaged.
- d) The analyzer was allowed to scan until the envelope of the transmitter bandwidth was defined.
- e) The marker was set on the peak of the in-band emissions. A display line was placed 20dB down from the peak of the in-band emissions. All emissions which fall outside of the authorized band of operation must be below the 20dB down display line. (All emissions to the left of the center frequency (band-edge) must be below the display line.)
- f) The analyzer's display was then screenshot and saved.
- 2) High Band Edge:

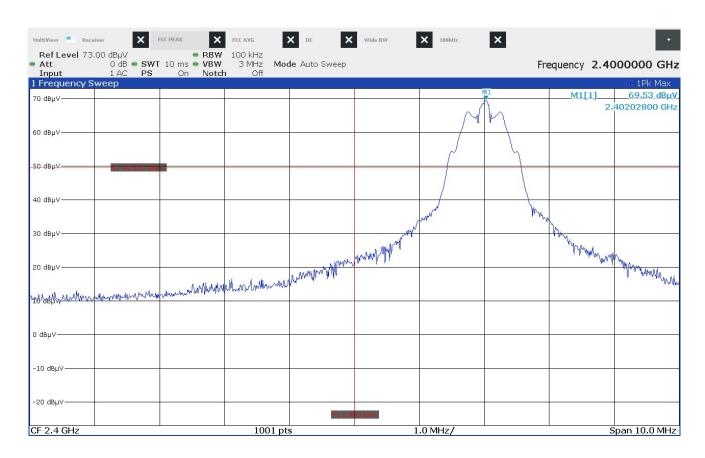


Procedure

- a) The EUT was setup inside the test chamber on a non-conductive stand and set to transmit continuously at the channel closest to the high band-edge.
- b) A broadband measuring antenna was placed at a test distance of 3 meters from the EUT. The antenna was connected to the input of a spectrum analyzer.
- c) The center frequency of the analyzer was set to the high band edge (2483.5MHz).
- d) The Resolution Bandwidth was set to 1MHz.
- e) To ensure that the maximum or worst case emission level was measured, the following steps were taken:
 - o The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
 - The EUT was rotated so that all of its sides were exposed to the receiving antenna.
 - The measuring antenna was raised and lowered from 1 to 4 meters for each antenna polarization to maximize the readings.
 - The highest measured peak reading and the highest measured average reading were recorded.

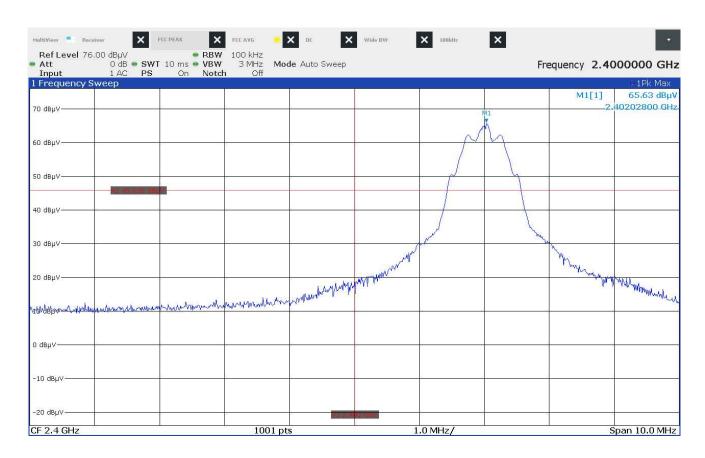


Test Details		
Manufacturer	The Chamberlain Group LLC	
EUT	DeLorean Visor Remote	
Model No.	CH361	
Serial No.	Sample 8	
Mode	BLE @ 2402MHz	
Frequency Tested	2402MHz	
Notes	Low Band Edge – Horizontal	



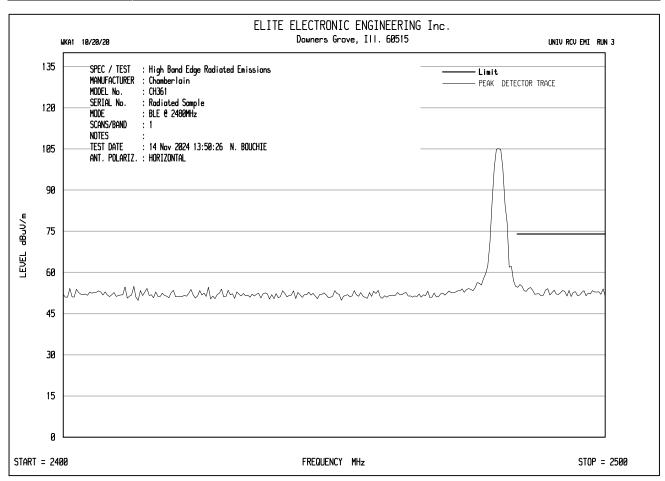


Test Details		
Manufacturer	The Chamberlain Group LLC	
EUT	DeLorean Visor Remote	
Model No.	CH361	
Serial No.	Sample 8	
Mode	BLE @ 2402MHz	
Frequency Tested	2402MHz	
Notes	Low Band Edge – Vertical	



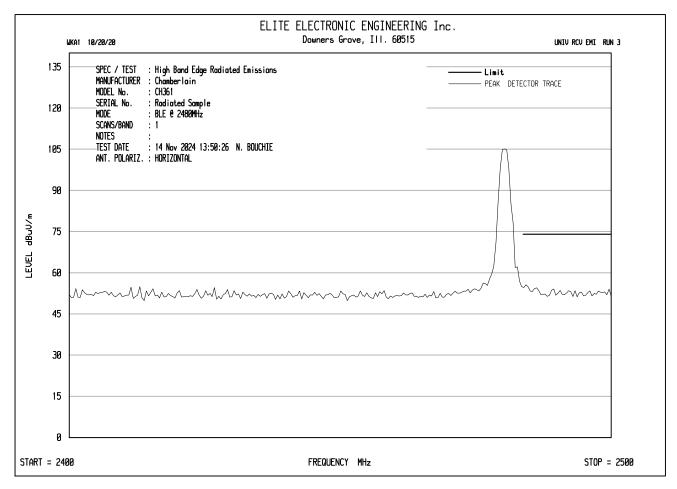


Test Details		
Manufacturer	The Chamberlain Group LLC	
EUT	DeLorean Visor Remote	
Model No.	CH361	
Serial No.	Sample 8	
Mode	BLE @ 2480MHz	
Frequency Tested	2480MHz	
Notes	High Band Edge – Peak and Average Measurements – Horizontal	





Test Details					
Manufacturer	The Chamberlain Group LLC				
EUT	DeLorean Visor Remote				
Model No.	CH361				
Serial No.	Sample 8				
Mode	BLE @ 2480MHz				
Frequency Tested	2480MHz				
Notes	High Band Edge – Peak and Average Measurements – Vertical				

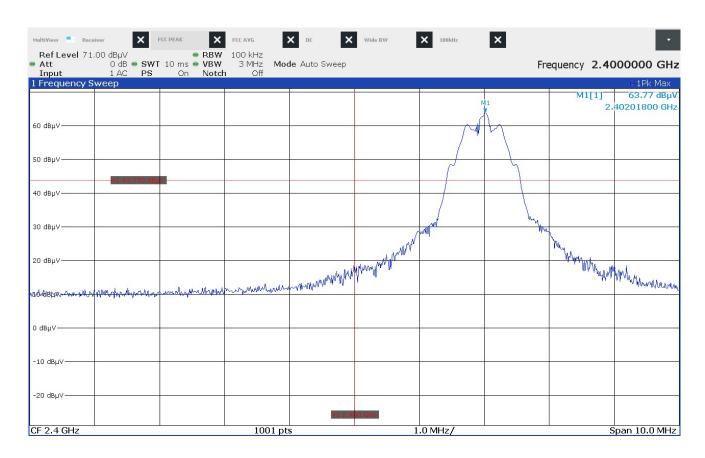


Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dBm)
2492.50	Н	31.9		3.5	32.7	0.0	68.1	2546.4	5000.0	-5.9
2483.50	V	26.7		3.5	32.7	0.0	62.9	1397.7	5000.0	-11.1

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBµV/m)	Average Total at 3m (µV/m)	Average Limit at 3m (µV/m)	Margin (dB)
2483.50	Н	17.40		3.5	32.7	0.0	0.0	53.6	479.6	500.0	-0.4
2403.30	V	16.37		3.5	32.7	0.0	0.0	52.6	426.0	500.0	-1.4

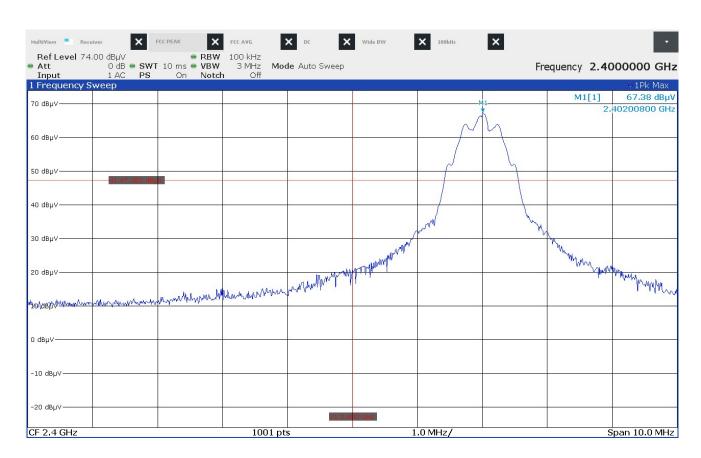


Test Details				
Manufacturer	The Chamberlain Group LLC			
EUT	DeLorean Visor Remote			
Model No.	CH363			
Serial No.	Sample 10			
Mode	BLE @ 2402MHz			
Frequency Tested	2402MHz			
Notes	Low Band Edge – Horizontal			



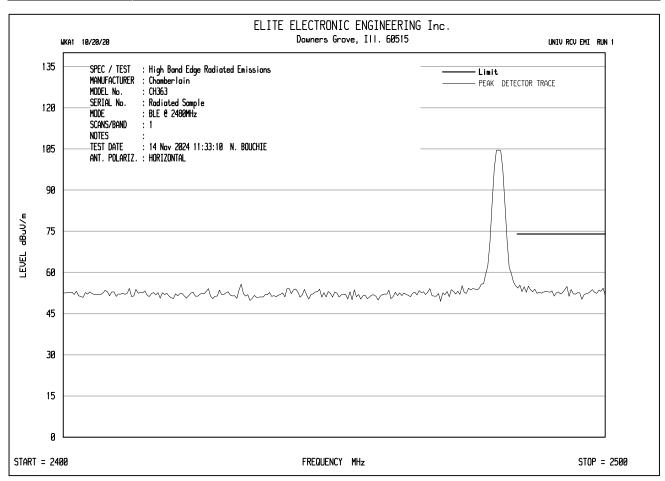


Test Details				
Manufacturer	The Chamberlain Group LLC			
EUT	DeLorean Visor Remote			
Model No.	CH363			
Serial No.	Sample 10			
Mode	BLE @ 2402MHz			
Frequency Tested	2402MHz			
Notes	Low Band Edge – Vertical			



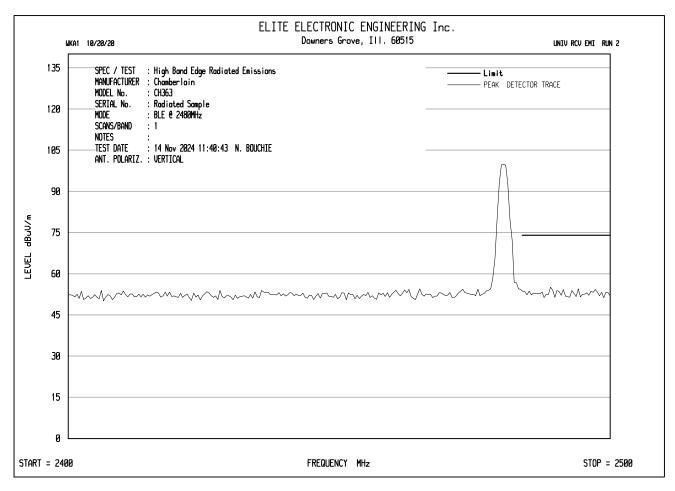


Test Details					
Manufacturer	The Chamberlain Group LLC				
EUT	DeLorean Visor Remote				
Model No.	CH363				
Serial No.	Sample 10				
Mode	BLE @ 2480MHz				
Frequency Tested	2480MHz				
Notes	High Band Edge – Peak and Average Measurements – Horizontal				





Test Details					
Manufacturer	The Chamberlain Group LLC				
EUT	DeLorean Visor Remote				
Model No.	CH363				
Serial No.	Sample 10				
Mode	BLE @ 2480MHz				
Frequency Tested	2480MHz				
Notes	High Band Edge – Peak and Average Measurements – Vertical				



Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	Cable Factor (dB)	Antenna Factor (dB/m)	Pre Amp (dB)	Peak Total at 3m (dBµV/m)	Peak Total at 3m (µV/m)	Peak Limit at 3m (µV/m)	Margin (dBm)
2402.50	Н	32.2		3.5	32.7	0.0	68.4	2638.9	5000.0	-5.6
2483.50	V	28.4		3.5	32.7	0.0	64.6	1707.7	5000.0	-9.3

Freq (MHz)	Ant Pol	Meter Reading (dBµV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle Factor (dB)	Average Total at 3m (dBµV/m)	Average Total at 3m (µV/m)	Average Limit at 3m (µV/m)	Margin (dB)
2483.50	Н	17.30		3.5	32.7	0.0	0.0	53.5	474.2	500.0	-0.5
2403.30	V	16.38		3.5	32.7	0.0	0.0	52.6	426.5	500.0	-1.4



Scope of Accreditation



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELITE ELECTRONIC ENGINEERING, INC. 1516 Centre Circle

Downers Grove, IL 60515

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ELECTRICAL

Valid To: June 30, 2025 Certificate Number: 1786.01

In recognition of the successful completion of the A2LA Accreditation Program evaluation process, accreditation is granted to this laboratory to perform the following automotive electromagnetic compatibility and other electrical tests:

Test Technology:	Test Method(s)1:
Transient Immunity	ISO 7637-2 (including emissions); ISO 7637-3;
(Max Voltage 60ViMax current 100A)	ISO 16750-2:2012, Sections 4.6.3 and 4.6.4;
	CS-11979, Section 6.4; CS.00054, Section 5.9;
	EMC-CS-2009.1 (CI220); FMC1278 (CI220, CI221, CI222);
	GMW 3097, Section 3.5; SAE J1113-11; SAE J1113-12;
	ECE Regulation 10.06 Annex 10
Electrostatic Discharge (ESD)	ISO 10605 (2001, 2008);
$(Up\ to\ \pm/-25kV)$	CS-11979 Section 7.0; CS.00054, Section 5.10;
	EMC-CS-2009.1 (CI 280); FMC1278 (CI280); SAE J1113-13; GMW 3097 Section 3.6
Conducted Emissions	CISPR 25 (2002, 2008), Sections 6.2 and 6.3;
	CISPR 25 (2016), Sections 6.3 and 6.4;
	CS-11979, Section 5.1; CS.00054, Sections 5.6.1 and 5.6.2;
	GMW 3097, Section 3.3.2;
	EMC-CS-2009.1 (CE 420); FMC1278 (CE420, CE421,
	CE 430, CE440)

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5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org



<u>Test Technology:</u> <u>Test Method(s)¹:</u>

Radiated Emissions Anechoic CISPR 25 (2002, 2008), Section 6.4;

(Up to 6GHz) CISPR 25 (2016), Section 6.5;

CS-11979, Section 5.3; CS.00054, Section 5.6.3;

GMW 3097, Section 3.3.1;

EMC-CS-2009.1 (RE 310); FMC1278 (RE310, RE320);

Vehicle Radiated Emissions CISPR 12; CISPR 36; ICES-002;

ECE Regulation 10.06 Annex 5

Bulk Current Injection (BCI) ISO 11452-4; CS-11979, Section 6.1; CS.00054, Section 5.8.1;

(1 to 400MHz 500mA) GMW 3097, Section 3.4.1; SAE J1113-4; EMC-CS-2009.1 (RI112); FMC1278 (RI112);

ECE Regulation 10.06 Annex 9

Radiated Immunity Anechoic ISO 11452-2;

(Up to 6GHz and 200V/m) CS-11979, Section 6.2; CS.00054, Section 5.8.2;

(Including Radar Pulse 600V/m) GMW 3097, Section 3.4.2;

EMC-CS-2009.1 (RI114); FMC1278 (RI114); SAE J1113-21;

ECE Regulation 10.06 Annex 9

Radiated Immunity Magnetic Field ISO 11452-8; FMC 1278 (RI140)

 Radiated Immunity Reverb
 ISO/IEC 61000-4-21; GMW 3097, Section 3.4.3;

 (360MHz to 6GHz and 100V/m)
 EMC-CS-2009.1 (RI114); FMC1278 (RI114);

ISO 11452-11

Radiated Immunity ISO 11452-9;

(Portable Transmitters) EMC-CS-2009.1 (RI115); FMC1278 (RI115);

(Up to 6GHz and 20W) GMW 3097, Sec 3.4.4

Vehicle Radiated Immunity (ALSE) ISO 11451-2; ECE Regulation 10.06 Annex 6

Vehicle Product Specific EMC EN 14982; EN ISO 13309; ISO 13766; EN 50498;

Standards EC Regulation No. 2015/208; EN 55012

Electrical Loads ISO 16750-2

Stripline ISO 11452-5

Transverse Electromagnetic (TEM) ISO 11452-3

Cell

(A2LA Cert. No. 1786.01) 08/15/2023

Page 2 of 9



Test Technology: Test Method(s)1: Emissions Radiated and Conducted 47 CFR, FCC Part 15 B (using ANSI C63.4:2014); (3m Semi-anechoic chamber, 47 CFR, FCC Part 18 (using FCC MP-5:1986); up to 40 GHz) ICES-001; ICES-003; ICES-005; IEC/CISPR 11, Ed. 4.1 (2004-06); AS/NZS CISPR 11 (2004); IEC/CISPR 11 Ed 5 (2009-05) + A1 (2010); KN 11 (2008-5) with RRL Notice No. 2008-3 (May 20, 2008); CISPR 11; EN 55011; KS C 9811; CNS 13803 (1997, 2003); CISPR 14-1; EN 55014-1; AS/NZS CISPR 14.1; CISPR 16-2-1 (2008); CISPR 16-2-1; KS C 9814-1; KN 14-1; IEC/CISPR 22 (1997); EN 55022 (1998) + A1(2000); EN 55022 (1998) + A1(2000) + A2(2003); EN 55022 (2006); IEC/CISPR 22 (2008-09); AS/NZS CISPR 22 (2004); AS/NZS CISPR 22, 3rd Edition (2006); KN 22 (up to 6 GHz); CNS 13438 (up to 6 GHz); VCCI V-3 (up to 6 GHz); CISPR 32; EN 55032; KS C 9832; KN 32; ECE Regulation 10.06 Annex 7 (Broadband); ECE Regulation 10.06 Annex 8 (Narrowband); ECE Regulation 10.06 Annex 14 (Conducted) Cellular Radiated Spurious Emissions ETSI TS 151 010-1 GSM; 3GPP TS 51.010-1, Sec 12; ETSI TS 134 124 UMTS; 3GPP TS 34.124; ETSI TS 136 124 LTE; E-UTRA; 3GPP TS 36.124 Current Harmonics EC 61000-3-2; EC 61000-3-12; EN 61000-3-2; KN 61000-3-2; KS C 9610-3-2; ECE Regulation 10.06 Annex 11 Flicker and Fluctuations IEC 61000-3-3; IEC 61000-3-11; EN 61000-3-3; KN 61000-3-3; KS C 9610-3-3; ECE Regulation 10.06 Annex 12 Immunity Electrostatic Discharge IEC 61000-4-2, Ed. 1.2 (2001); IEC 61000-4-2 (1995) + A1(1998) + A2(2000); EN 61000-4-2 (1995); EN 61000-4-2 (2009-05); KN 61000-4-2 (2008-5); RRL Notice No. 2008-4 (May 20, 2008); IEC 61000-4-2; EN 61000-4-2; KN 61000-4-2;

KS C 9610-4-2; IEEE C37.90.3 2001

EC 61000-4-3, Ed. 3.0 (2006-02); EC 61000-4-3, Ed. 3.2 (2010); KN 61000-4-3 (2008-5);

RRL Notice No. 2008 4 (May 20, 2008); IEC 61000-4-3; EN 61000-4-3; KN 61000-4-3;

KS C 9610-4-3; IEEE C37.90.2 2004

IEC 61000-4-3 (1995) + A1(1998) + A2(2000);

(A2LA Cert. No. 1786.01) 08/15/2023

Radiated Immunity

1 Page 3 of



Test Technology:	Test Method(s)1:
Immunity (cont'd)	
Electrical Fast Transient/Burst	IEC 61000-4-4, Ed. 2.0 (2004-07);
	IEC 61000-4-4, Ed. 2.1 (2011);
	IEC 61000-4-4 (1995) + A1(2000) + A2(2001);
	KN 61000-4-4 (2008-5);
	RRL Notice No. 2008-5 (May 20, 2008);
	IEC 61000-4-4; EN 61000-4-4; KN 61000-4-4;
	KS C 9610-4-4; ECE Regulation 10.06 Annex 15
Surge	IEC 61000-4-5 (1995) + A1(2000);
7-70 - 20	IEC 61000-4-5, Ed 1.1 (2005-11);
	EN 61000-4-5 (1995) + A1(2001);
	KN 61000-4-5 (2008-5);
	RRL Notice No. 2008-4 (May 20, 2008);
	IEC 61000-4-5; EN 61000-4-5; KN 61000-4-5;
	KS C 9610-4-5;
	IEEE C37.90.1 2012; IEEE STD C62.41.2 2002;
	ECE Regulation 10.06 Annex 16
Conducted Immunity	IEC 61000-4-6 (1996) + A1(2000);
entitiest virkeux tit til slitt i skelen untervirk til slitte til kyke tit til en	IEC 61000-4-6, Ed 2.0 (2006-05);
	IEC 61000-4-6 Ed. 3.0 (2008);
	KN 61000-4-6 (2008-5);
	RRL Notice No. 2008 4 (May 20, 2008);
	EN 61000-4-6 (1996) + A1(2001); IEC 61000-4-6;
	EN 61000-4-6, KN 61000-4-6; KS C 9610-4-6
Power Frequency Magnetic Field	EC 61000-4-8 (1993) + A1(2000); EC 61000-4-8 (2009);
Immunity (Down to 3 A/m)	EN 61000-4-8 (1994) + A1(2000);
	KN 61000-4-8 (2008-5);
	RRL Notice No. 2008 4 (May 20, 2008);
	IEC 61000-4-8; EN 61000-4-8; KN 61000-4-8; KS C 9610-4-8
Voltage Dips, Short Interrupts, and Line	EC 61000-4-11, Ed. 2 (2004-03);
Voltage Variations	KN 61000-4-11 (2008-5);
	RRL Notice No. 2008-4 (May 20, 2008);
	IEC 61000-4-11; EN 61000-4-11; KN 61000-4-11;
	KS C 9610-4-11
Ring Wave	IEC 61000-4-12, Ed. 2 (2006-09);
	EN 61000-4-12:2006;
	IEC 61000-4-12; EN 61000-4-12; KN 61000-4-12;
	IEEE STD C62.41.2 2002

(A2LA Cert. No. 1786.01) 08/15/2023

Page 4 of



Test Technology: Test Method(s)1: Generic and Product Specific EMC IEC/EN 61000-6-1; AS/NZS 61000-6-1; KN 61000-6-1; Standards KS C 9610-6-1; IEC/EN 61000-6-2; AS/NZS 61000-6-2; KN 61000-6-2; KS C 9610-6-2; IEC/EN 61000-6-3; AS/NZS 61000-6-3; KN 61000-6-3; KS C 9610-6-3; IEC/EN 61000-6-4; AS/NZS 61000-6-4; KN 61000-6-4; KS C 9610-6-4; EN 50130-4; EN 61326-1; EN 50121-3-2; EN 12895; EN 50270; EN 50491-1; EN 50491-2; EN 50491-3; EN 55015; EN 60730-1; EN 60945; IEC 60533; EN 61326-2-6; EN 61800-3; IEC/CISPR 14-2; EN 55014-2; AS/NZS CISPR 14.2; KN 14-2; KS C 9814-2; IEC/CISPR 24; AS/NZS CISPR 24; EN 55024; KN 24; IEC/CISPR 35; AS/NZS CISPR 35; EN 55035; KN 35; KS C 9835; IEC 60601-1-2; JIS T0601-1-2 TxRx EMC Requirements EN 301 489-1; EN 301 489-3; EN 301 489-9; EN 301 489-17; EN 301 489-19; EN 301 489-20 European Radio Test Standards ETSI EN 300 086-1; ETSI EN 300 086-2; ETSI EN 300 113-1; ETSI EN 300 113-2; ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 300 220-3-1; ETSI EN 300 220-3-2; ETSI EN 300 330-1; ETSI EN 300 330-2; ETSI EN 300 440-1; ETSI EN 300 440-2; ETSI EN 300 422-1; ETSI EN 300 422-2; ETSI EN 300 328; ETSI EN 301 893; ETSI EN 301 511; ETSI EN 301 908-1; ETSI EN 908-2; ETSI EN 908-13; ETSI EN 303 413; ETSI EN 302 502; EN 303 340; EN 303 345-2; EN 303 345-3; EN 303 345-4 Canadian Radio Tests RSS-102 measurement (RF Exposure Evaluation); RSS-102 measurement (Nerve Stimulation); SPR-002; RSS-111; RSS-112; RSS-117; RSS-119; RSS-123; RSS-125; RSS-127; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-137; RSS-139; RSS-140; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-191; RSS-192; RSS-194; RSS-195; RSS-196; RSS-197; RSS-199; RSS-210; RSS-211; RSS-213; RSS-215; RSS-216; RSS-220; RSS-222; RSS-236; RSS-238; RSS-243; RSS-244; RSS-247; RSS-248; RSS-251; RSS-252; RSS-287; RSS-288; RSS-310; RSS-GEN Mexico Radio Tests IFT-008-2015; NOM-208-SCFI-2016 Radio Law No. 131, Ordinance of MPT No. 37, 1981, Japan Radio Tests MIC Notification No. 88:2004, Table No. 22-11; ARIB STD-T66, Regulation 18 Taiwan Radio Tests LP-0002 (July 15, 2020)

(A2LA Cert. No. 1786.01) 08/15/2023

Page 46 of 51



Test Technology: Test Method(s)1:

Australia/New Zealand Radio Tests AS/NZS 4268; Radiocommunications (Short Range Devices)

Standard (2014)

Hong Kong Radio Tests HKCA 1039 Issue 6;

HKCA 1042;

HKCA 1033 Issue 7;

HKCA 1061;

HKCA 1008; HKCA 1043;

HKCA 1043; HKCA 1057;

HKCA 1073

Korean Radio Test Standards KN 301 489-1; KN 301 489-3; KN 301 489-9;

KN 301 489-17; KN 301 489-52; KS X 3124; KS X 3125;

KS X 3130; KS X 3126; KS X 3129

Vietnam Radio Test Standards QCVN 47:2015/BTTTT; QCVN 54:2020/BTTTT;

QCVN 55:2011/BTTTT; QCVN 65:2013/BTTTT; QCVN 73:2013/BTTTT; QCVN 74:2020/BTTTT; QCVN 112:2017/BTTTT; QCVN 117:2020//BTTTT

Vietnam EMC Test Standards QCVN 18:2014/BTTTT; QCVN 86:2019/BTTTT;

QCVN 96:2015/BTTTT; QCVN 118:2018/BTTTT

Unlicensed Radio Frequency Devices

(3 Meter Semi-Anechoic Room)

47 CFR FCC Part 15C, 15D, 15E, 15F, 15G, 15H (using ANSI C63.10:2013, ANSI C63.17:2013 and

FCC KDB 905462 D02 (v02))

Licensed Radio Service Equipment 47 CFR FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80, 87,

90, 95, 96, 97, 101 (using ANSI/TIA-603-E, TIA-102.CAAA-E, ANSI C63.26:2015)

OIA (Over the Air) Performance

GSM, GPRS, EGPRS UMTS (W-CDMA) LTE including CAT M1 A-GPS for UMTS/GSM LTS A-GPS, A-GLONASS,

SIB8/SIB16 Large Device/Laptop/Tablet Testing

Integrated Device Testing WiFi 802.11 a/b/g/n/a CTIA Test Plan for Wireless Device Over-the-Air

Performance (Method for Measurement for Radiated Power

and Receiver Performance) V3.8.2;

CTIA Test Plan for RF Performance Evaluation of WiFi

Mobile Converged Devices V2.1.0

(A2LA Cert. No. 1786.01) 08/15/2023

Page 6 of



Test Technology: Test Method(s)¹:

Electrical Measurements and Simulation

AC Voltage / Current FAA AC 150/5345-10H; (1mV to 5kV) 60 Hz FAA AC 150/5345-43J; (0.1V to 250V) up to 500 MHz FAA AC 150/5345-44K; (1μA to 150A) 60 Hz FAA AC 150/5345-46E; FAA AC 150/5345-47C; DC Voltage / Current (1mV to 15 kV) / (1μA to 10A)

Power Factor / Efficiency / Crest Factor (Power to 30kW)

Resistance $(1m\Omega \text{ to } 4000M\Omega)$

Surge

(Up to 10 kV / 5 kA) (Combination Wave and Ring Wave)

On the following products and materials:

Telecommunications Terminal Equipment (TTE), Radio Equipment, Network Equipment, Information Technology Equipment (ITE), Automotive Electronic Equipment, Automotive Hybrid Electronic Devices, Maritime Navigation and Radio Communication Equipment and Systems, Vehicles, Boats and Internal Combustion Engine Driven Devices, Automotive, Aviation, and General Lighting Products, Medical Electrical Equipment, Motors, Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment, Household Appliances, Electric Tools, Low-voltage Switchgear and Control gear, Programmable Controllers, Electrical Equipment for Measurement, Control and Laboratory Use, Base Materials, Power and Data Transmission Cables and Connectors

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.12

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unintentional Radiators</u> Part 15B	ANSI C63.4:2014	40000
Industrial, Scientific, and Medical Equipment Part 18	FCC MP-5 (February 1986)	40000
Intentional Radiators Part 15C	ANSI C63.10:2013	40000

(A2LA Cert. No. 1786.01) 08/15/2023

Dogo 7 of t

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - General Requirements-Accreditation of ISO-IEC 17025 Laboratories.



Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A. 1^2

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
Unlicensed Personal Communication Systems Devices		(17112)
Part 15D	ANSI C63.17:2013	40000
U-NII without DFS Intentional Radiators Part 15E	ANSI C63.10:2013	40000
U-NII with DFS Intentional Radiators Part 15E	FCC KDB 905462 D02 (v02)	40000
UWB Intentional Radiators Part 15F	ANSI C63.10:2013	40000
BPL Intentional Radiators Part 15G	ANSI C63.10:2013	40000
White Space Device Intentional Radiators Part 15H	ANSI C63.10:2013	40000
Commercial Mobile Services (FCC Licensed Radio Service Equipment) Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
General Mobile Radio Services (FCC Licensed Radio Service Equipment) Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97, and 101 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) Part 96	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
Maritime and Aviation Radio Services Parts 80 and 87	ANSI/TIA-603-E; ANSI C63.26:2015	40000
Microwave and Millimeter Bands Radio		
Services Parts 25, 30, 74, 90 (above 3 GHz), 97 (above 3 GHz), and 101	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000

(A2LA Cert. No. 1786.01) 08/15/2023



Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A. 1^2

Rule Subpart/Technology Broadcast Radio Services	Test Method	Maximum Frequency (MHz)
Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
Signal Boosters Part 20 (Wideband Consumer Signal Boosters, Provider-specific signal boosters, and Industrial Signal Boosters) Section 90.219	ANSI C63.26:2015	40000

 $^{^2}$ Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.

(A2LA Cert. No. 1786.01) 08/15/2023

Page 9 of 9





Accredited Laboratory

A2LA has accredited

ELITE ELECTRONIC ENGINEERING INC.

Downers Grove, IL

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 15 $^{\rm th}$ day of August 2023.

Valid to June 30, 2025

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 1786.01

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.