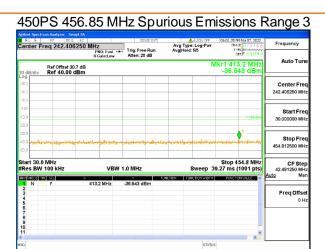
Date Issued: April 11 2022

Project No.: 20811

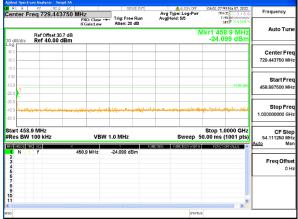


Client: Dali Wireless, Inc.

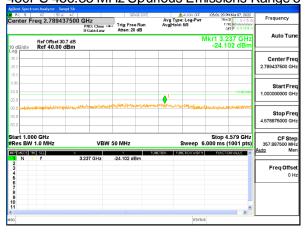
Report No.: 20.01.20811

Revision No.: 1

450PS 456.85 MHz Spurious Emissions Range 4



450PS 456.85 MHz Spurious Emissions Range 5



Page 74 of 88

Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1

Client: Dali Wireless, Inc.

Noise Figure

Governing Doc	FCC Part 90.219		Room Temperature			
Test Procedure		SI/TIA-603- E; FCC B 935210 D05, v01r03 Relative Humidity (%		(%)		
Test Location	Richmond		Barometric Pressu	re (kPa)		
Test Engineer			Date			
EUT Voltage	⊠ +48VD	С	□ 120VAC	C @ 60Hz	<u> </u>	
Test Equipment Used	Manufacturer	Model	Serial Number	Calibrat	ion date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270 Oct 9, 2021 Oct 9,			Oct 9, 2023
Spectrum Analyzer	Keysight	N9010A	110A MY50520285 Oct 11, 2021 Oct 11, 2023			
Frequency Range:	□ 2 times of the passband on each band					
Detector:	⊠ Average					
RBW:	⊠ 910 kHz					
Type of Facility:	⊠ Tabletop					
Distance:	□ Direct					
Noise Figure on each band is less than the 9 dB required.						
Compliant ⊠	Non-Compliant □ Not Applicable □					

Test setup

Description of test set-up:

Based on FCC KDB 935210 D05 Indus Booster Basic Meas v01r03: 2019, the system maximum gain and the noise density is measured. Measurements were performed within the EUT's passband.

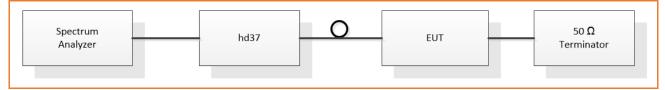
The noise figure is then calculated by NF = NP - Gain + KTB Noise; where

NP is in band noise power per Herz,

Gain is measured at the maximum noise frequence with -55 dBm input signal in UL.

KTB Noise is 174dB/Hz.

The EUT was set to Operation Mode #1 with configuration Mode #1.



Page 75 of 88

Prepared by: LabTest Certification Inc. Date Issued: April 11 2022 Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1

Client: Dali Wireless, Inc.

Results

Test Band	Gain (dB)	kToB (dBm/Hz)	Measured Value (dBm/Hz)	Noise Figure (dB)
800PS	92.1	-174	-73.2	8.75
700PS	91	-174	-76.2	6.77
450PS	90.4	-174	-77.8	5.83

Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1

Client: Dali Wireless, Inc.

Frequency Stability

The AH37 and hd37 are sychronized to the same reference clock. Therefore there is no frequency error after down and up frequency conversion are performed.

The frequency stability check is not applicable to the EUT.

Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1

Client: Dali Wireless, Inc.

Radiated Emissions - Enclosure

Governing Doc	FCC Part 2.1053, FCC Part 90.210 & FCC Part 90.219		Room Temperature (°C)				
Test Procedure	ANSI TIA-603-D		Relative Humidity (%)				
Test Location	Richmond	Ва	arometri	ic Pressure	(kPa)		
Test Engineer		Da	Date Marc			h 7, 2022	
EUT Voltage	⊠ DC		120V	'AC @ 60H	Z		
Test Equipment Used	Manufacturer	Мо	odel	Identifier	Calib	ration date	Calibration
Spectrum Analyzer	KeySight	N9(038A	702	18- <i>A</i>	Apr-2017	18-Apr-2018
Broadband Antenna	Sunol	J	B1	371	29-Mar-2016		29-Mar-2018
Loop Antenna	ComPower	AL-130 241 2		28-0	Oct-2015	28-Oct-2017	
Horn Antenna	A.H Systems	SAS-571 227C		227C	22-Sep-2016		22-Sep-2018
RF Preamplifier	Agilent	84	49B	273		NCR	NCR
EMC Shielded Enclosure	USC US		C-26	374	NCR ¹		NCR ¹
Note1) NCR = No Calib	Note1) NCR = No Calibration Required, but NSA was done at 2016.						
Frequency Range:	⊠ 9kHz-30MHz	⊠ 30-′	1000MH	lz	⊠ 1	-18GHz	
Detector:	□ Peak (for Prescan)	☑ Quasi-Peak(for Formal)) ☑ Average(for Formal)			for Formal)		
RBW/VBW:	⊠ 9/30kHz				/3MHz		
Type of Facility:	⊠ SAC	☐ FSOATS ☐		□ ii	n-situ		
Distance:		☐ 10meter		□ 1	☐ 1meter		
Arrangement of EUT:	⊠ Table-top only	☐ Floor-standing only ☐		□R	ack Mounte	ed	
Compliant ⊠	Compliant ⊠ Non-Compliant □ Not Applicable □						
Compliant 🖂	Non-Compilar	IL 🗀		NOT A	philicap		

Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1

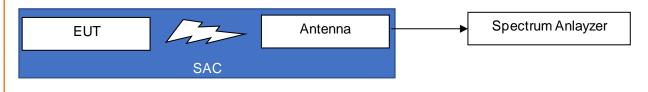
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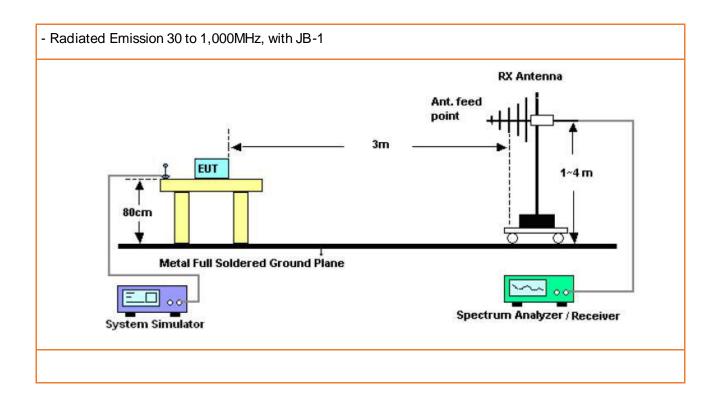
Test setup

Description of test set-up:

The EUT was placed on a nonconducting platform (i.e., an "EUT support table"), of nominal size 1 m by 1.5 m, whose top surface is nominally 80 cm above the reference ground plane. The EUT was set up on 3 meters away from the EUT. The EUT was set continually on its Radio, 5W Max., which was downlinked from airHost. And the output of RF was terminated via 30dB attenuator, for rejecting the high power of carrier. The lowest, middle and highest channels were used for measuring of all radiated spurious emisions.

The EUT was set to Operation Mode #1 with configuration Mode #1.

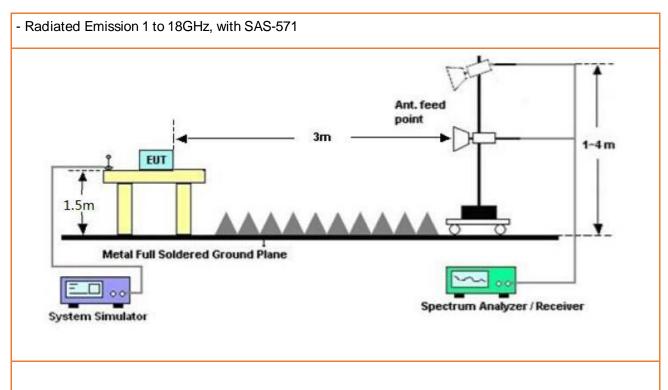




Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1

Client: Dali Wireless, Inc.



Measurement Procedure

Testing was performed in accordance with the test standard(s) referenced in the test summary section of this report. The Equipment Under Test (EUT) was configured based upon the requirements of the applicable test standard. Initially, the primary emission frequencies are identified by positioning a broadband receive antenna three meter from the EUT.

Scans were made with an EMC Analyzer, controlled by EMC Test Software, Tile7!, from 30kHz to 18GHz with the receiver in the peak mode. The receiver IF bandwidth was 9kHz, 120 kHz or 1MHz as appropriate for the frequency and scan step was about 30kHz. To ensure that the maximum emission at each discrete frequency of interest is observed, the receive antenna is varied in height from one to four meters and rotated to produce horizontal and vertical polarities while the turntable is rotated to determine the worst emitting configuration. Under 30MHz was only tested at 1meter height and Antenna was changed both polarization, Horizontal and Vertical. Measurements were then made using CISPR quasi peak when the peak readings were within 10dB of the limit line. The numerical results are included herein to demonstrate compliance.

Test Result

The output of EUT was set to 1 Watt(+30dBm), the PASS level of Spurious is: 43 + 10log(P) = 43 + 10log(1) = 43dB attenuation = -13dBm Since of radiated measurement was performed at 3 meters, the limit line was converted to dBuV/m using the formulas ad outlined in KDB 971168: -13 dBm ERP = 84.38 dBuV/m at 3 meters. Spurious Emission level (dBuV/m) = Detected level (dBuV) + Path Loss(dB) + Antenna Factor (dB/m) - Preamplifier's Gain (dB)

Client: Dali Wireless, Inc. Date Issued: April 11 2022 Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1

Test setup picture:





Page 81 of 88

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Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1

Client: Dali Wireless, Inc.

Graphical Representation for Emission - Radiated 30kHz to 30MHz

Spectrum was scanned manually from 30kHz to 30MHz. No automated plot is available for this frequency range. No spurious emissions from the product were detectable

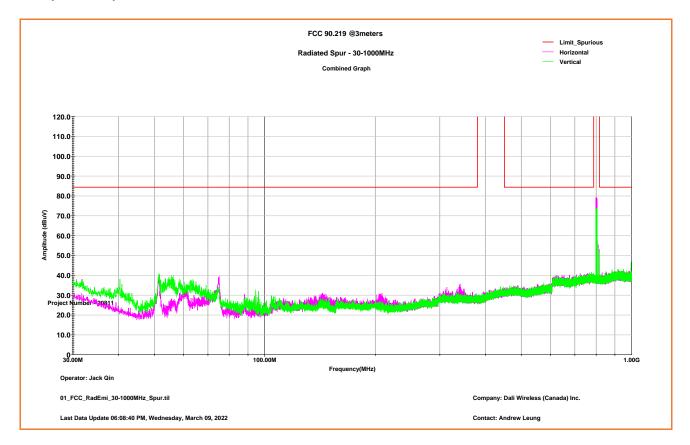
DCN: 1036, Rev 1

Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1

Client: Dali Wireless, Inc.

Graphical Representation for Emission - Radiated 30MHz to 1GHz



Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1

Client: Dali Wireless, Inc.

Graphical Representation for Emission - Radiated 1 to 9GHz

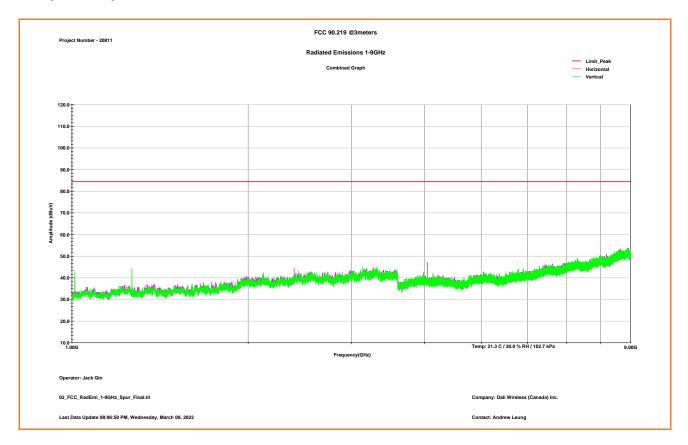


Table Representation for Emission - Radiated 30MHz to 9GHz

No Emissions were measured. All emissions detected, other than the fundamental, were related to the Digital Mode circuitry. No Transmitter Spurious Emissions were detectable and are greater than 20dB below the limit line.

Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1

Client: Dali Wireless, Inc.

APPENDIX A: ISO 17025:2005 Accreditation Certificate



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Labtest Certification, Inc. 3128, 20800 Westminster HWY Richmond B.C. V6V 2W3

has been assessed by ANAB and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

> AT-2033 Certificate Number





This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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).

Page 85 of 88

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DCN: 1036, Rev 1

Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Labtest Certification, Inc.

3128, 20800 Westminster HWY Richmond, B.C. V6V 2W3 Kavinder Dhillon Ruben Ugarte Phone: 604-247-0444 kchillon@labtestcert.com ruben.U garte@labtestcert.com www.labtestcert.com

TESTING

Validto: March 4, 2018 Certificate Number: A T-2033

Testing performed in support of FCC DoC and Certification approval procedures

Type of Device Examples	Scope of Accreditation	Supporting FCC Guidance	Comments
Unintentional Radiators (FCC Part 15, Subpart B)	ANSI C63 A-2014		
Industrial, Scientific, and Medical Equipment (FCC Part 18)	FCC MP-5, (February 1986)		
Consumer ISM equipment Intentional Radiators (FCC Part 15 Subpart C)	ANSI C63.10-2013		
UPCS (FCC Part 15, Subpart D) •Unlicensed Personal Communication Systems devices	ANSI C63.17-2013		
U-NII without DFS Intentional Radiators (FCC Part 15, Subpart E)	ANSI C63.10-2013	KD B Publication 789033	
Unlicensed National Information Infrastructure Devices (U-NII without DFS)			
U-NII with DFS Intentional Radiators (FCC Part 15 Subpart E)	FCC KDB Publication 905462 D02 UNII DFS		
Unlicensed National Information Infrastructure U-NII) Devices with Dynamic Frequency Selection (DFS)	Compliance Procedures New Rules v01 (April 8, 2016)		
UWB Intentional Radiators (FCC Part 15, Subpart F) •Ultra-wideband Operation	ANSI C63.10-2013		
BPL Intentional Radiators (FCC Part 15, Subpart G) •Access Broadband Over Power Line (Access BPL)	ANSI C63.10-2013		
White Space Device Intentional Radiators (FCC Part 15 , Subpart H) •White Space Devices	ANSI C63.10-2013		

Version 003 | Issued: 08/07/2017

www.anab.org

Pagel of 8



Client: Dali Wireless, Inc.

DCN: 1036, Rev 1

Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1



Testing performed in support of FCC DoC and Certification approval procedures

Type of Device Examples	Scope of Accreditation	Supporting FCC	Comments
		Guidance	
Commercial Mobile Services (FCC	ANSI/TIA-603-D	KDB Publication 971168	
Licensed Radio Service Equipment)	TIA-102.CAAA-D	1202421311100	
•Part 22 (cellular)	TIM-102:CMM-D		
•Part 24			
Part 25 (non-microwave)			
•Part 27			
General Mobile Radio Services	• ANSI/TIA-603-D		Microwave Frequencies, as
(FCC Licensed Radio Service	TIA-102.CAAA-D		used in this part, refers to
Equipment)	* 11A-102:CAAA-D		frequencies of 890 MHz
•Part 22 (non-cellular)			and above
Part 90 (non-microwave)			
•Part 95			
•Part 97			
Part 101 (non-microwave)			
Citizens Broadband Radio Services	• ANSI/TIA-603-D	KDB Publication 971168	1
(FCC Licensed Radio Service	• TIA-102.CAAA-D	ILD D F do IL albity / 1100	
Equipment)	TIR-102:CRAR-D		
•Part 96			
Maritime and Aviation Radio	ANSI/TIA-603-D		
Services (FCC Licensed Radio	- RISH TIPOUS-D		
Service Equipment)			
◆Part 80			
•Part 87			
Microwave and Millimeter Bands	ANSI/TIA-603-D		
Radio Services (FCC Licensed	TIA-102.CAAA-D		
Radio Service Equipment)	111.101.0111111		
•Part 25			
•Part 74			
•Part 90 (90 Y, 90 Z, D SRC)			
•Part 101			
Broadcast Radio Services (FCC	ANSI/TIA-603-D		1
Licensed Radio Service Equipment)	• TIA-102.CAAA-D		
•Part 73			
Part 74 (non-microwave)			
RF Exposure	 IEEE 3td 1528^{TeC} 2013 	KDB Publication 865664	
Devices subject to SAR		KDB Publication 447498	
requirements			
Hearing Aid Compatibility (Part 20)	ANSI C63.19-2007; or		
•HAC for Commercial mobile	ANSI C63.19-2011		
services			

Version 003 | Issued: 08/07/2017

www.anab.org

Page 2 of 8



Client: Dali Wireless, Inc.

Date Issued: April 11 2022

Report No.: 20.01.20811 Project No.: 20811 Revision No.: 1



Testing performed in support of FCC DoC and Certification approval procedures

Type of Device Examples	Scope of Accreditation	Supporting FCC Guidance	Comments
Signal Boosters (Part 20) •Wideband Consumer signal boosters •Provider-specific signal boosters •Industrial signal boosters	FCC KDB Publication 935210 D03 Signal Booster Measurements v04(February 12,2016) FCC KDB Publication 935210 D04 Provider Specific Booster Measurements v02 (February 12,2016) FCC KDB Publication 935210 D05 Indus Booster Basic Meas v0 Ir01 (February 12,2016)		

Electromagnetic Compatibility (EMC)

Test Method	Test Specification(s)	Range	Comments
Unintentional Radiators	AN SI C63.4-2003 AN SI C63.4-2009		
Radiated and Conducted Emissions	ANSI C63.4:2014; FCC OST/MP-05 (1986); ICES-001(2006); ICES-002(2013); ICES-003(2016); ICES-005(2009); CISPR 16-1-1(2015); CISPR 16-1-2(2014); CISPR 16-1-3(2006); CISPR 16-2-1(2014); CISPR 16-2-2(2010); CISPR 16-2-3(2014); CISPR 16-2-5(2008); CISPR 16-4-2(2014); EN 55016-1-1(2010); EN 55016-1-1(2010); EN 55016-1-3(2006); EN 55016-1-4(2010); EN 55016-2-2(2011); EN 55016-2-2(2011); EN 55016-2-3(2014); EN 55016-2-3(2014); EN 55016-2-3(2014); EN 55016-3(2014); EN 55016-3(2014); EN 55016-3(2014); EN 55016-3(2014); CISPR 11(2013); KN 11 (RRA Amounce 2015-110, Dec., 03, 2015); VCCI V-3 (up to 6 GHz); V CCI V-5; CNS 13438	9 kHz to 40 GHz	

Version 003 | Issued: 08/07/2017

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Page 3 of 8



Client: Dali Wireless, Inc.

END OF REPORT

Page 88 of 88