Date Issued: 22 January 2018

Report No.:16608-1E Project No.: 16608 Revision No.: 1

Client: Dali Wireless, Inc.

Spectrum Emission Mask

Governing Doc	FCC Part 90.210 (i)	Room	Temperature (°C)		24				
Test Procedure	ANSI/TIA-603- E-2016; FCC KDB 935210 D05 Indus Booster Basic Meas v01r02: October 27, 2017	Relativ	e Humidity (%)		33.9				
Test Location	Burnaby	Barom	etric Pressure (kP	a)	101.3				
Test Engineer	Sophie Piao/Jeremy Lee	Date		Ja	ın 04, 2018				
EUT Voltage	⊠ DC	□ 1	20VAC @ 60Hz						
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration	Calibration due				
Signal Generator	Keysight	N5172B	MY53050270	08/04/17	08/04/18				
Spectrum Analyzer	Keysight	N9010A	MY50520285	08/07/17	08/07/18				
40dB Attenuator	Aeroflex Winschel	58-40-43	n/p	CVP	CVP				
Note) CVP = Calibration	n Verification Performed int	ernally, n/	o = not provided.						
Frequency Range:	□ Center Channel								
Detector:	⊠ Peak								
RBW/VBW:	⊠100 Hz								
Type of Facility:	⊠ Testbench								
Distance:	Distance:								
Arrangement of EUT: ☐ Table-top only ☐ Floor-standing only ☐ Rack Mounted									
Signal of all types of modulation is contained within the emission mask.									
Compliant ⊠	Compliant $oxin Mon$ -Compliant $oxin Mot$ Applicable $oxin Mot$								

Test setup

Description of test set-up: Spectrum Emission Mask is measured by connecting a Spectrum Analyzer to the RF output connector. The input power was adjusted to produce maximum output power on the antenna port. The reference level was measured with integrated BW 2 times of the channel BW. The emission was measured with RBW 100 Hz. The EUT was set to Operation Mode #1 with configuration Mode #1. Vector 40 dB Spectrum Signal *hd*Host **EUT** Analyzer Attenuator Generator

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Total Power Ref

Start Freq

3.000 kHz 4.600 kHz

50.00 kHz

99.90 kHz

99 90 kHz

12.50 MHz

0.0 Hz

33 68 dBm0/00625 MHz

Integ BW

100.0 Hz

100.0 Hz 100.0 Hz

100.0 Hz

100.0 Hz

100 0 kHz

1.000 MHz

dBm

17.64

-25.42

Stop Freq

3.000 kHz

4.600 kHz 50.00 kHz

100.0 kHz

100.0 kHz

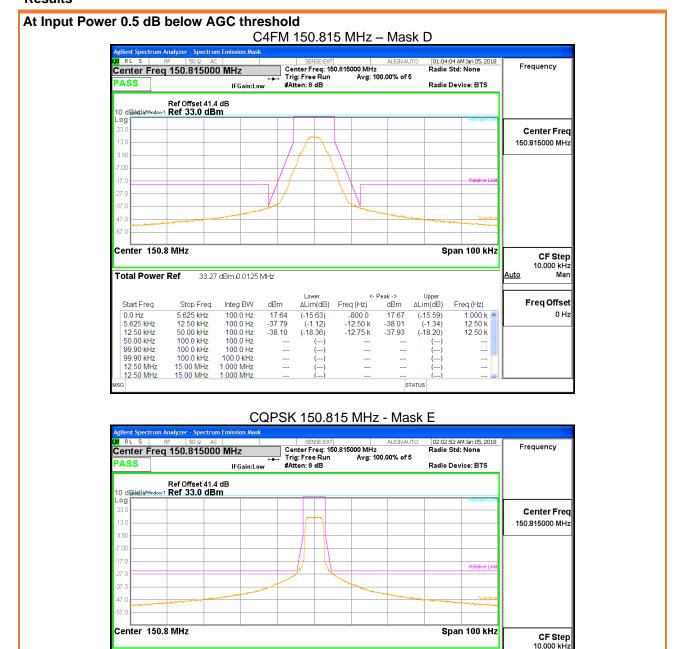
100.0 kHz

15.00 MHz 15.00 MHz

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Results



Client: Dali Wireless, Inc.

Freq Offset

0 Hz

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ΔLim(dB) Freq (Hz)

(-16.03)

(-2.91) (-1.10) -600.0

-4.600 k

-4.600 k

ΔLim(dB)

(-15.79)

(-2.86) (-1.63) Freg (Hz)

950.0

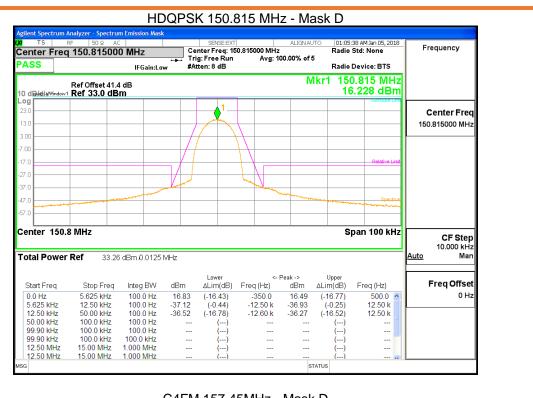
4.600 k

4.850 k

dBm

17.88

-25.95



Client: Dali Wireless, Inc.

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C4FM 157.45MHz - Mask D 01:04:25 AM Jan 05, 2018 Radio Std: None Center Freq: 157.470000 MHz Trig: Free Run Avg: 100 #Atten: 8 dB Frequency Center Freq 157.470000 MHz Avg: 100.00% of 5 Radio Device: BTS IFGain:Low Ref Offset 41.4 dB Ref 33.0 dBm Center Freq 157.470000 MHz Center 157.5 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 32.97 dBm 0.0125 MHz Freq Offset Freq (Hz) Start Freq Stop Frea Integ BW dRm ΔLim(dB) ΔLim(dB) Frea (Hz) dBm (-15.52) (-15.45) 17.52 0 0 Hz 5 625 kHz 100 0 Hz 17.46 -150.0 900.0 0 Hz 12.50 kHz 50.00 kHz 100.0 Hz -38.56 (-18.53)-12.60 k -37.69 (-17.66)29.95 k 50.00 kHz 99.90 kHz 100.0 kHz 100.0 kHz 100.0 Hz 100.0 Hz 99.90 kHz 12.50 MHz 100.0 kHz 15.00 MHz 100.0 kHz 1.000 MHz 12.50 MHz 15.00 MHz 1.000 MHz STATUS

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CQPSK 157.45 MHz - Mask E 02:03:44 AM Jan 05, 2018 Center Freq: 157.470000 MHz Trig: Free Run Avg: 10 #Atten: 8 dB Frequency Center Freq 157.470000 MHz Radio Std: None Avg: 100.00% of 5 PASS Radio Device: BTS IFGain:Low Ref Offset 41.4 dB Ref 33.0 dBm Center Freq 157.470000 MHz Center 157.5 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 33.88 dBm0/00625 MHz Stop Freq Integ BW dBm ΔLim(dB) Freq (Hz) ΔLim(dB) Freq Offset Start Fred dBm Frea (Hz) (-15.83) -1.700 k 18.12 (-15.76) 3.000 kHz 100.0 Hz 18.05 1.000 k 0.0 Hz 3.000 kHz 4.600 kHz 4.600 kHz 50.00 kHz 100.0 Hz 100.0 Hz (-2.39) (-0.60) -4.600 k -4.600 k (-2.23) (-0.02) 4.600 k 4.600 k -24.72 -24.14 50.00 kHz 99.90 kHz 100.0 kHz 100.0 kHz 100.0 Hz 100.0 Hz 99 90 kHz 100 0 kHz 100 0 kHz 15.00 MHz 15.00 MHz 12.50 MHz 1.000 MHz

Client: Dali Wireless, Inc.

Report No.:16608-1E

Revision No.: 1

HDQPSK 157.45 MHz - Mask D ALIGN AUTO Center Freq: 157.470000 MHz Trig: Free Run Avg: 100 #Atten: 8 dB Frequency Center Freq 157.470000 MHz Avg: 100.00% of 5 Radio Device: BTS IFGain:Low Ref Offset 41.4 dB Ref 33.0 dBm Center Freq 157.470000 MHz Center 157.5 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 32.97 dBm 0.0125 MHz Freq Offset ΔLim(dB) Freq (Hz) Start Fred Stop Frea Integ BW dRm ΔLim(dB) Frea (Hz) dBm (-16.78) (-16.61) 0.0 Hz 5 625 kHz 100 0 Hz 16.36 -250.0 16 19 0.0 12.45 k 0 Hz (-16.62) 12.50 kHz 50.00 kHz 100.0 Hz -36.81 (-16.78)-13.05 k -36.65 12.70 k 50.00 kHz 99.90 kHz 100.0 kHz 100.0 kHz 100.0 Hz 100.0 Hz 99.90 kHz 12.50 MHz 100.0 kHz 15.00 MHz 100.0 kHz 1.000 MHz 12.50 MHz 15.00 MHz 1.000 MHz STATUS

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C4FM 173.39625 MHz - Mask D 01:04:47 AM Jan 05, 2018 Center Freq: 173.396300 MHz Trig: Free Run Avg: 10 #Atten: 8 dB Frequency Center Freq 173.396300 MHz Radio Std: None Avg: 100.00% of 5 PASS Radio Device: BTS IFGain:Low Ref Offset 41.4 dB Ref 33.0 dBm Center Freq 173.396300 MHz Center 173.4 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 32.13 dBm .0.0125 MHz Stop Freq Integ BW dBm ΔLim(dB) Freq (Hz) ΔLim(dB) Freq Offset Start Fred dBm Frea (Hz) (-15.53) 5.625 kHz -1.050 k 16.43 (-15.70) 100.0 Hz 16.60 1.000 k 0.0 Hz 5.625 kHz 12.50 kHz 12.50 kHz 50.00 kHz 100.0 Hz 100.0 Hz (-1.47) (-18.14) -12.50 k -12.90 k (-2.00) (-18.35) 12.50 k 13.30 k -39.01 -39.21 100.0 kHz 100.0 kHz 100.0 Hz 100.0 Hz 50 00 kHz 99.90 kHz 99 90 kHz 100 0 kHz 100 0 kHz 15.00 MHz 15.00 MHz 12.50 MHz 1.000 MHz

Client: Dali Wireless, Inc.

Report No.:16608-1E

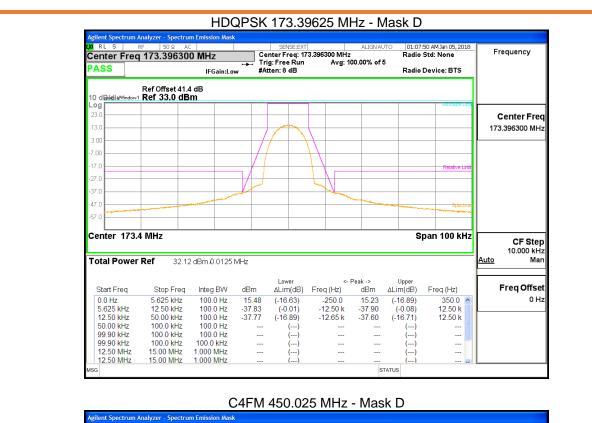
Revision No.: 1

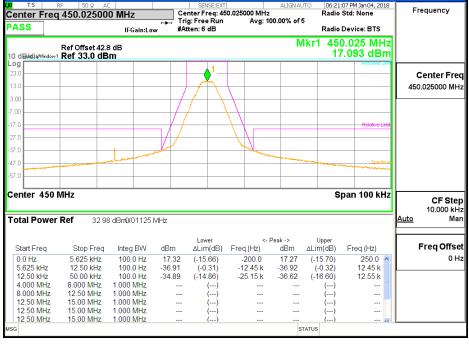
CQPSK 173.39625 MHz - Mask E Center Freq: 173.396300 MHz Trig: Free Run Avg: 100 #Atten: 8 dB Frequency Center Freq 173.396300 MHz Avg: 100.00% of 5 Radio Device: BTS IFGain:Low Ref Offset 41.4 dB Ref 33.0 dBm Center Freq 173.396300 MHz Center 173.4 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 33.20 dBm0/.00625 MHz Freq Offset Freq (Hz) Start Freq Stop Freq Integ BW dBm ΔLim(dB) ΔLim(dB) Frea (Hz) dBm (-15.68) -1.850 k 17.30 (-15.90) 0.0 Hz 3 000 kHz 100 0 Hz 17.52 500.0 0 Hz (-1.52) 4.600 kHz 50.00 kHz 100.0 Hz -26.44 (-1.64)-4.600 k -26.33 4.600 k 50.00 kHz 99.90 kHz 100.0 kHz 100.0 kHz 100.0 Hz 100.0 Hz 99.90 kHz 12.50 MHz 100.0 kHz 15.00 MHz 100.0 kHz 1.000 MHz 12.50 MHz 15.00 MHz 1.000 MHz STATUS

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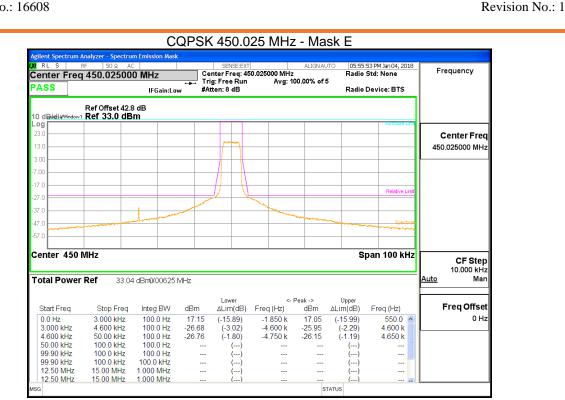
Project No.: 16608

Client: Dali Wireless, Inc. Report No.:16608-1E Revision No.: 1





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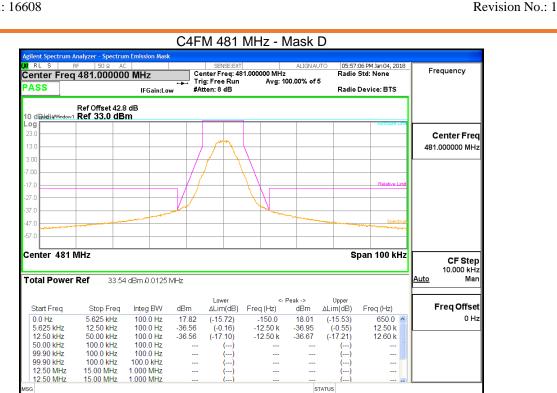


Client: Dali Wireless, Inc.

Report No.:16608-1E

HDQPSK 450.025 MHz - Mask D 07:03:03 PM Jan 04, 2018 Radio Std: None Center Freq: 450.025000 MHz Trig: Free Run Avg: 10 #Atten: 0 dB Frequency Center Freq 450.025000 MHz Avg: 100.00% of 5 Radio Device: BTS IFGain:Low Mkr1 450.025 MHz 16.314 dBm Ref Offset 42.8 dB Ref 33.0 dBm Center Freq 450.025000 MHz Center 450 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 32.97 dBm0/01125 MHz Freq Offset Start Freq Stop Frea Integ BW dRm ΔLim(dB) Fred (Hz) ΔLim(dB) Frea (Hz) dBm (-16.55) 0 0 Hz 5 625 kHz 100 0 Hz 16 42 -750 0 16.53 (-16.44)300.0 0 Hz (-0.19) (-16.11) 12.50 kHz 50.00 kHz 100.0 Hz -34.61 (-14.58)-25.10 k -36.14 12.50 k 4.000 MHz 8.000 MHz 8.000 MHz 12.50 MHz 1.000 MHz 1.000 MHz 12.50 MHz 12.50 MHz 15.00 MHz 15.00 MHz 1.000 MHz 1.000 MHz 12.50 MHz 15.00 MHz 1.000 MHz STATUS

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Client: Dali Wireless, Inc.

Report No.:16608-1E

CQPSK 481 MHz - Mask E ALIGN AUTO 05:56:11 PM Jan 04, 2018 Radio Std: None Center Freq: 481.000000 MHz Trig: Free Run Avg: 10 #Atten: 8 dB Frequency Center Freq 481.000000 MHz Avg: 100.00% of 5 Radio Device: BTS IFGain:Low Ref Offset 42.8 dB Ref 33.0 dBm Center Freq 481.000000 MHz Center 481 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 33.51 dBm0/00625 MHz Freq Offset Freq (Hz) Start Fred Stop Freq Integ BW dRm ΔLim(dB) ΔLim(dB) Frea (Hz) dBm (-15.70) -1.100 k 17.51 0.0 Hz 3 000 kHz 100 0 Hz 17.81 (-16.00)200.0 0 Hz 4.600 kHz 50.00 kHz 100.0 Hz -26.09 (-1.61)-4.600 k -25.29 (-0.80)4.650 k 50.00 kHz 99.90 kHz 100.0 kHz 100.0 kHz 100.0 Hz 100.0 Hz 99.90 kHz 12.50 MHz 100.0 kHz 15.00 MHz 100.0 kHz 1.000 MHz 12.50 MHz 15.00 MHz 1.000 MHz STATUS

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15 00 MHz

15.00 MHz

1 000 MHz

1.000 MHz

12 50 MHz

12.50 MHz

Date Issued: 22 January 2018 Project No.: 16608

HDQPSK 481 MHz - Mask D Center Freq: 481.000000 MHz Trig: Free Run Avg: 10 #Atten: 6 dB Frequency Center Freq 481.000000 MHz Radio Std: None Avg: 100.00% of 5 PASS Radio Device: BTS IFGain:Low Mkr1 481 MHz Ref Offset 42.8 dB 16.531 dBm Ref 33.0 dBm Center Freq 481.000000 MHz Center 481 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 33.45 dBm0/01125 MHz Stop Freq Integ BW dBm ΔLim(dB) Freq (Hz) ΔLim(dB) Freq Offset Start Fred Frea (Hz) dBm (-16.72) 5.625 kHz 16.73 -250.0 16.64 (-16.81) 650.0 100.0 Hz 0.0 Hz 5.625 kHz 12.50 kHz 100.0 Hz 100.0 Hz -36.77 -35.95 (-0.28) (-16.41) -12.50 k -12.55 k (-0.30) (-16.67) 12.50 k 12.55 k 12.50 kHz 50.00 kHz -36.22 4 000 MHz 8 000 MHz 1 000 MHz 8.000 MHz 1.000 MHz

Client: Dali Wireless, Inc.

Report No.:16608-1E

Revision No.: 1

C4FM 511.975 MHz - Mask D 06:36:22 PM Jan 04, 2018 Radio Std: None Center Freq: 511.975000 MHz Trig: Free Run Avg: 10 #Atten: 4 dB Frequency Center Freq 511.975000 MHz Avg: 100.00% of 5 Radio Device: BTS IFGain:Low Mkr1 511.975 MHz Ref Offset 42.8 dB Ref 33.0 dBm 15.370 dBm Center Freq 511.975000 MHz Center 512 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 32.53 dBm0/01125 MHz Freq Offset Start Freq Stop Frea Integ BW dBm ΔLim(dB) Fred (Hz) ΔLim(dB) Frea (Hz) dBm (-15.77) (-15.39) 17 15 0 0 Hz 5 625 kHz 100 0 Hz 16.76 -700.0 950.0 0 Hz (-0.16) (-17.02) 12.50 kHz 50.00 kHz 100.0 Hz -36.75 (-16.29)-12.75 k -37.49 12.70 k 4.000 MHz 8.000 MHz 8.000 MHz 12.50 MHz 1.000 MHz 1.000 MHz 12.50 MHz 12.50 MHz 15.00 MHz 15.00 MHz 1.000 MHz 1.000 MHz 12.50 MHz 15.00 MHz 1.000 MHz STATUS

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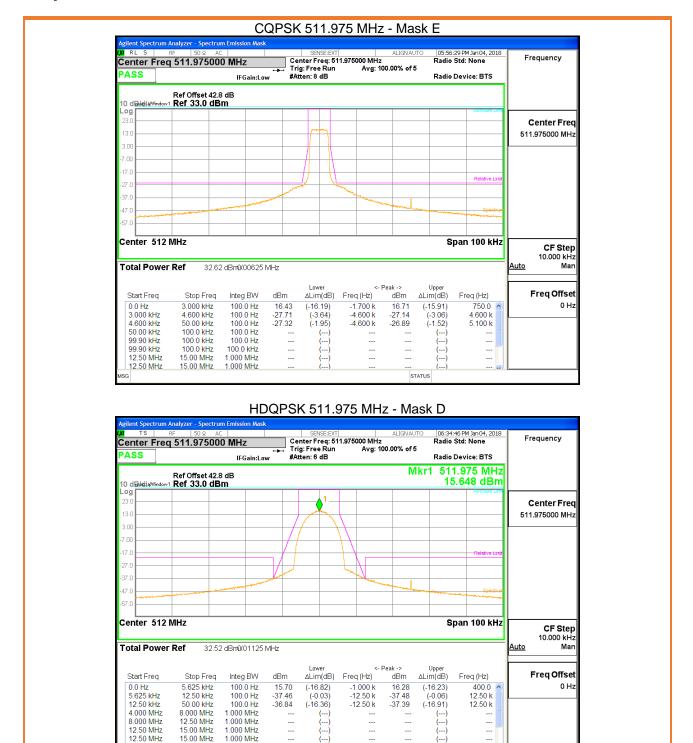
12.50 MHz

15.00 MHz

1.000 MHz

Project No.: 16608

Client: Dali Wireless, Inc. Report No.:16608-1E Revision No.: 1



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STATUS

Prepared by: LabTest Certification Inc. Date Issued: 22 January 2018

12.50 MHz

15.00 MHz

1.000 MHz

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Client: Dali Wireless, Inc.

Report No.:16608-1E

Revision No.: 1

At Input Power 3 dB above AGC threshold C4FM 150.815 MHz - Mask D 01:36:15 AM Jan 05, 20: Radio Std: None Frequency Center Freq: 150.815000 MHz Trig: Free Run Avg: 10 Center Freq 150.815000 MHz Avg: 100.00% of 5 Radio Device: BTS IFGain:Low #Atten: 8 dB Ref Offset 41.4 dB Ref 33.0 dBm Center Fred 150.815000 MHz Span 100 kHz Center 150.8 MHz **CF Step** 10.000 kHz Total Power Ref 33.74 dBm 0.0125 MHz Freq Offset Start Freq Stop Freq Integ BW dBm ∆Lim(dB) Freq (Hz) dBm ΔLim(dB) Freq (Hz) 0.0 Hz 5.625 kHz 5.625 kHz 12.50 kHz 18.23 -37.62 18.37 -37.67 950.0 12.50 k 100.0 Hz (-15.51) -700.0 (-15.36) 0 Hz 100.0 Hz (-1.42)12.50 kHz 50.00 kHz 50 00 kHz 100 0 Hz -37.54 (-18.28)-12.75 k -37.38 (-18.11)12.55 k 99 90 kHz 100 0 kHz 100 0 Hz 99.90 kHz 100.0 kHz 100.0 kHz 12.50 MHz 15.00 MHz 1.000 MHz 12.50 MHz 15.00 MHz STATUS CQPSK 150.815 MHz - Mask E 01:12:44 AM Jan 05, 2018 Radio Std: None Frequency Center Freq 150.815000 MHz Center Freq: 150.815000 MHz Trig: Free Run Avg: 100.00% of 5 #Atten: 8 dB Radio Device: BTS Mkr1 150.815 MHz 17.129 dBm Ref Offset 41.4 dB Ref 33.0 dBm Center Fred 150.815000 MHz Center 150.8 MHz Span 100 kHz CF Step 10.000 kH: Mar Total Power Ref 33.90 dBm0/.00625 MHz Freq Offset Start Freq Stop Freq Integ BW dBm ΔLim(dB) Freq (Hz) dBm ΔLim(dB) Freq (Hz) 0.0 Hz 3.000 kHz 3.000 kHz 100.0 Hz 17.59 (-16.31) -150.0 17.93 (-15.97)1.350 k 0 H: -4.600 k 4.600 kHz 100.0 Hz -25.28 (-2.48)-26.01 (-3.21)4.600 k 4.600 kHz 50.00 kHz 100.0 Hz -25.33 (-1.23) -4.800 k -25.11 (-1.01)4.750 k 50.00 kHz 100.0 kHz 100.0 Hz 99 90 kHz 100 0 kHz 100 0 Hz 99.90 kHz 100.0 kHz 100.0 kHz

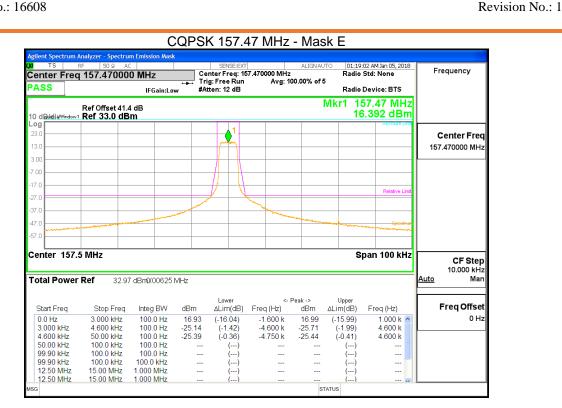
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STATUS

Client: Dali Wireless, Inc. Report No.:16608-1E Revision No.: 1



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Client: Dali Wireless, Inc.

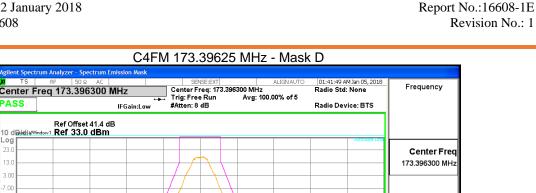
Report No.:16608-1E

HDQPSK 157.47 MHz - Mask D ALIGN AUTO Center Freq: 157.470000 MHz Trig: Free Run Avg: 100 #Atten: 8 dB Frequency Center Freq 157.470000 MHz Avg: 100.00% of 5 Radio Device: BTS IFGain:Low Ref Offset 41.4 dB Ref 33.0 dBm Center Freq 157.470000 MHz Center 157.5 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 32.81 dBm .0.0125 MHz Freq Offset Start Freq Stop Frea Integ BW dBm ΔLim(dB) Fred (Hz) ΔLim(dB) Frea (Hz) dBm (-16.67) (-16.65) 0.0 Hz 5 625 kHz 100 0 Hz 16.14 -250.0 16 16 100.0 0 Hz 12.50 kHz 50.00 kHz 100.0 Hz -37.27 (-17.08)-12.80 k -37.15 (-16.96)12.50 k 50.00 kHz 99.90 kHz 100.0 kHz 100.0 kHz 100.0 Hz 100.0 Hz 99.90 kHz 12.50 MHz 100.0 kHz 15.00 MHz 100.0 kHz 1.000 MHz 12.50 MHz 15.00 MHz 1.000 MHz STATUS

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PASS

Project No.: 16608



Client: Dali Wireless, Inc.

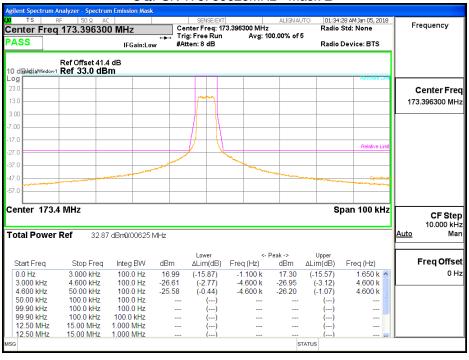
CF Step 10.000 kHz

Freq Offset 0 Hz



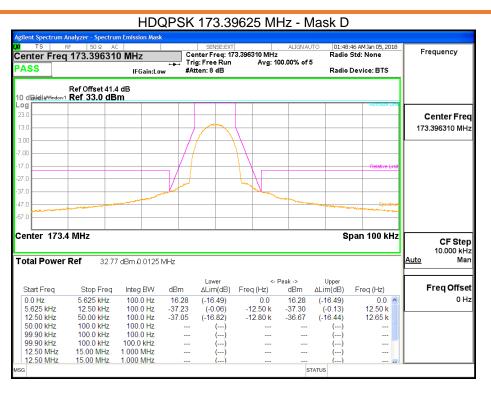
,	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak -> dBm	Upper ∆Lim(dB)	Freq (Hz)		-
	0.0 Hz 5 625 kHz	5.625 kHz 12.50 kHz	100.0 Hz 100.0 Hz	17.47 -37.77	(-15.95) (-1.25)	-800.0 -12.50 k	17.89 -37.64	(-15.53) (-1.12)	950.0 ^ 12.50 k		
ш	12.50 kHz	50.00 kHz	100.0 Hz	-37.41	(-17.84)	-12.70 k	-37.39	(-17.82)	12.60 k	ı	
ш	50.00 kHz 99.90 kHz	100.0 kHz 100.0 kHz	100.0 Hz 100.0 Hz		() ()			()			
	99.90 kHz 12.50 MHz	100.0 kHz 15.00 MHz	100.0 kHz 1.000 MHz		() ()			() ()			
_	12.50 MHz	15.00 MHz	1.000 MHz		()			()	🚙		
MSG							S	TATUS			

CQPSK 173. 39625MHz - Mask E



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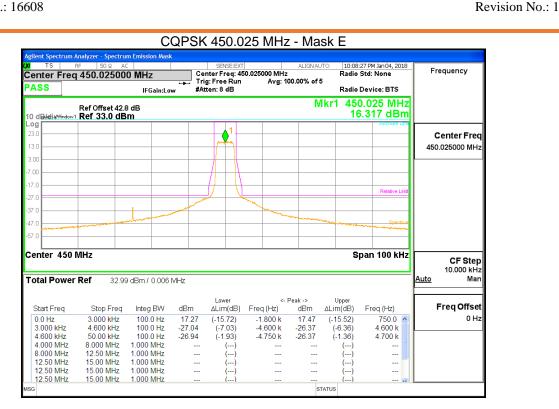
Client: Dali Wireless, Inc.

Report No.:16608-1E

Revision No.: 1

C4FM 450.025 MHz - Mask D 07:44:35 PM Jan 04, 2018 Radio Std: None Center Freq: 450.025000 MHz Trig: Free Run Avg: 10 #Atten: 6 dB Frequency Center Freq 450.025000 MHz Avg: 100.00% of 5 Radio Device: BTS IFGain:Low Mkr1 450.025 MHz Ref Offset 42.8 dB Ref 33.0 dBm 16.565 dBm Center Freq 450.025000 MHz Center 450 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 33.05 dBm0/01125 MHz Freq Offset Start Freq Stop Frea Integ BW dBm ΔLim(dB) Freq (Hz) ΔLim(dB) Frea (Hz) dBm (-15.90) (-15.37) 17 68 0 0 Hz 5 625 kHz 100 0 Hz 17.16 -100.0 900.0 0 Hz 5.625 kHz 12.50 kHz (-16.70) 50.00 kHz 100.0 Hz -34.69 (-14.75)-25.10 k -36.65 12.55 k 4.000 MHz 8.000 MHz 8.000 MHz 12.50 MHz 1.000 MHz 1.000 MHz 12.50 MHz 12.50 MHz 15.00 MHz 15.00 MHz 1.000 MHz 1.000 MHz 12.50 MHz 15.00 MHz 1.000 MHz STATUS

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Client: Dali Wireless, Inc.

Report No.:16608-1E

HDQPSK 450.025 MHz - Mask D 07:41:14 PM Jan 04, 2018 Radio Std: None Center Freq: 450.025000 MHz Trig: Free Run Avg: 10 #Atten: 6 dB Frequency Center Freq 450.025000 MHz Avg: 100.00% of 5 Radio Device: BTS IFGain:Low Mkr1 450.025 MHz Ref Offset 42.8 dB Ref 33.0 dBm 15.916 dBm Center Freq 450.025000 MHz Center 450 MHz Span 100 kHz CF Step 10.000 kHz Total Power Ref 33.41 dBm0/01125 MHz Freq Offset Start Freq Stop Frea Integ BW dBm ΔLim(dB) Fred (Hz) ΔLim(dB) Frea (Hz) dBm (-16.93) (-17.01) 0 0 Hz 5 625 kHz 100 0 Hz 16 48 -450.0 16 40 300.0 0 Hz 12.50 kHz 50.00 kHz 100.0 Hz -34.43 (-14.84)-25.10 k -36.43 (-16.84)12.65 k 4.000 MHz 8.000 MHz 8.000 MHz 12.50 MHz 1.000 MHz 1.000 MHz 12.50 MHz 12.50 MHz 15.00 MHz 15.00 MHz 1.000 MHz 1.000 MHz 12.50 MHz 15.00 MHz 1.000 MHz STATUS

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Project No.: 16608

Client: Dali Wireless, Inc. Report No.:16608-1E Revision No.: 1



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PASS

Project No.: 16608

Report No.:16608-1E Revision No.: 1 HDQPSK 481 MHz - Mask D Center Freq: 481.000000 MHz Trig: Free Run Avg: 10 #Atten: 0 dB Frequency Center Freq 481.000000 MHz Radio Std: None Avg: 100.00% of 5 Radio Device: BTS IFGain:Low Mkr1 481 MHz Ref Offset 42.8 dB 16.611 dBm Ref 33.0 dBm Center Freq 481.000000 MHz

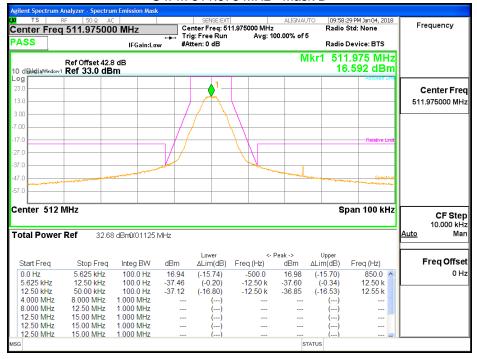
Client: Dali Wireless, Inc.

CF Step 10.000 kHz



Freq Offset 5.625 kHz 12.50 kHz 100.0 Hz 100.0 Hz (-0.27) (-16.41) 12.50 k 12.50 k 50.00 kHz -36.35 -12.60 k -35.93 4 000 MHz 8 000 MHz 1 000 MHz 8.000 MHz 1.000 MHz 15 00 MHz 12 50 MHz 1 000 MHz 12.50 MHz 15.00 MHz 1.000 MHz

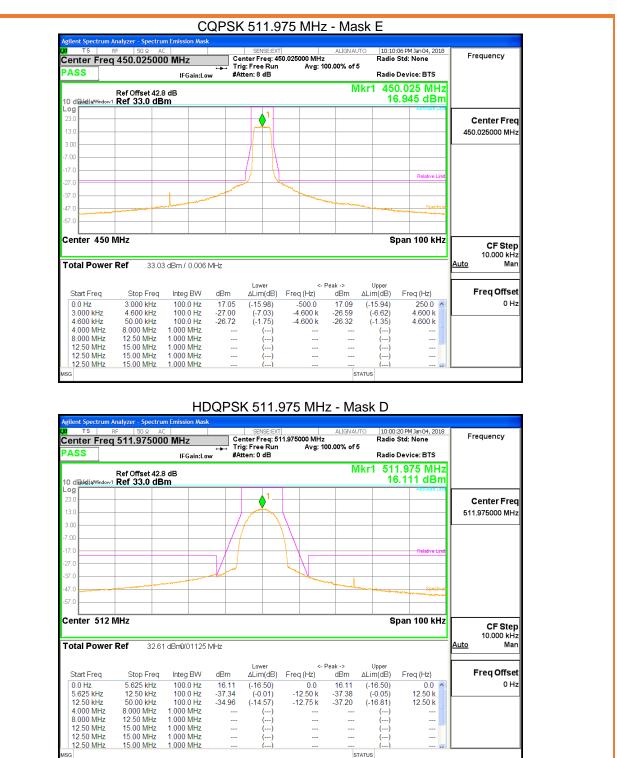
C4FM 511.975 MHz - Mask D



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Prepared by: LabTest Certification Inc. Date Issued: 22 January 2018

Project No.: 16608



Client: Dali Wireless, Inc.

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Date Issued: 22 January 2018

Report No.:16608-1E Project No.: 16608 Revision No.: 1

Client: Dali Wireless, Inc.

Frequency Stability

The hdHost and hd30 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.

DCN: 1036, Rev 2

Date Issued: 22 January 2018 Report No.:16608-1E Project No.: 16608 Revision No.: 1

Client: Dali Wireless, Inc.

Passband Gain and Bandwidth & Out of Band Rejection

Governing Doc	FCC KDB 935210 D05 Indus Booster Basic Meas v01r02: October, 2017 RSS-131 Sec 6.1		Room Temperature (°C)			24		
Test Procedure	ANSI/TIA-603- E-2016; FCC KDB 935210 D05 Indus Booster Basic Meas v01r02: October, 2017 RSS-131 Sec 4.2	s Re	Relative Humidity (%)			33.9		
Test Location	Burnaby	aby Barometric Pressure (kPa)				101.3		
Test Engineer	Sophie Piao/Jeremy Lee	Da	Date			Jan 04, 2018		
EUT Voltage								
Test Equipment Used	Manufacturer	Mod	del	Serial Number	Ca	libration	Calibration due	
Signal Generator	Keysight	N517	72B	MY53050270	30	3/04/17	08/04/18	
Spectrum Analyzer	Keysight	N901	10A	MY50520285	08/07/17		08/07/18	
40dB Attenuator	Aeroflex Winschel	58-40	0-43	n/p		CVP	CVP	
Note) CVP = Calibration	n Verification Performed int	ternally	y, n/p	= not provided.				
Frequency Range:		250%						
Detector:	⊠ Peak							
RBW/VBW:	⊠0.1% of 5 times of passband bandwidth							
Type of Facility:	⊠ Tabletop							
Distance:								
Compliant ⊠	Non-Compliant	t 🗆		Not Appli	icab	le □		

Date Issued: 22 January 2018

Report No.:16608-1E Project No.: 16608 Revision No.: 1

Client: Dali Wireless, Inc.

Test setup

Description of test set-up:

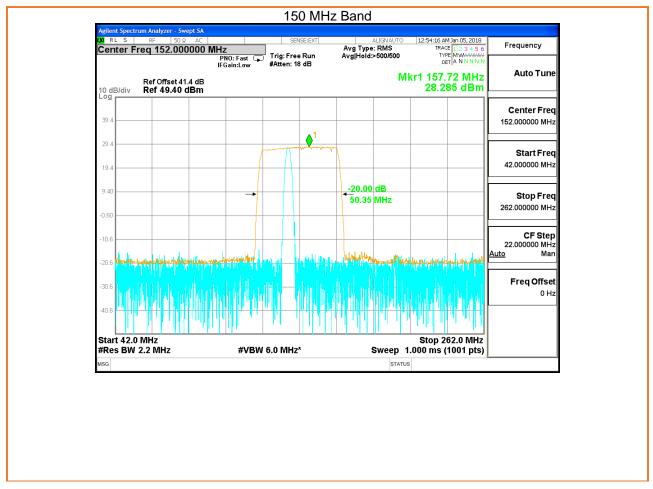
The procedure used was ANSI/TIA-603-E-2016 and FCC KDB 935210 D05 Indus Booster Basic Meas v01r02. The signal booster was set to maximum gain. A swept CW signal was set to the range of ±250 % of the product pass band. The CW amplititude was set to 3 dB below the AGC threshold so that the ALC should not activate throughout the test.

After the max-hold sweep trace was completed, a marker was set to the peak amplitude, and a 20dB bandwidth was measured between two additional markers fall 20 dB from the peak.

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



Results

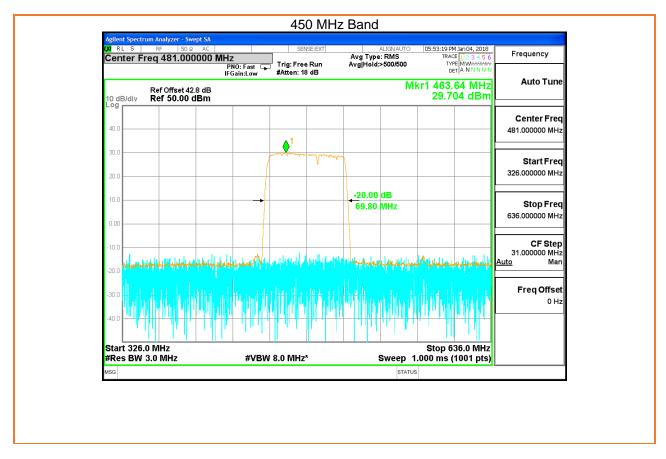


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Date Issued: 22 January 2018 Report No.:16608-1E Project No.: 16608 Revision No.: 1

Client: Dali Wireless, Inc.



Prepared by: LabTest Certification Inc. Date Issued: 22 January 2018

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Client: Dali Wireless, Inc.

Intermodulation

Governing Doc	FCC Part 90.219	R	Room Temperature (°C)			24			
Test Procedure	ANSI/TIA-603- E-2016; FCC KDB 935210 D05 Indus Booster Basic Mea v01r02: October, 2017	s R	elative	Humidity (%)			33.9		
Test Location	Burnaby	В	arome	tric Pressure (kP	a)		101.3		
Test Engineer	Sophie Piao/Jeremy Lee	D	ate			Ja	n 04, 2018		
EUT Voltage	⊠ DC		12	0VAC @ 60Hz					
Test Equipment Used	Manufacturer	Мо	del	Serial Number	Ca	libration	Calibration due		
Signal Generator	Keysight	N51	72B	MY53050270	90	3/04/17	08/04/18		
Spectrum Analyzer	Keysight	N90	10A	MY50520285	90	3/07/17	08/07/18		
40dB Attenuator	Aeroflex Winschel	58-4	0-43	n/p		CVP	CVP		
Note) CVP = Calibration	n Verification Performed in	iternal	ly, n/p	= not provided.					
Frequency Range:		± 50k	κHz						
Detector:	⊠ Average								
RBW/VBW:	⊠100/910Hz								
Type of Facility:	⊠ Tabletop								
Distance:	□ Direct								
The intermodulation product of 2 tone is below the -13dBm emission limit with input power - 0.5dBm below AGC threshold and - 3 dB above AGC threshold									
Compliant ⊠	Non-Complian	Non-Compliant \square Not Applicable \square							

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Client: Dali Wireless, Inc.

Test setup

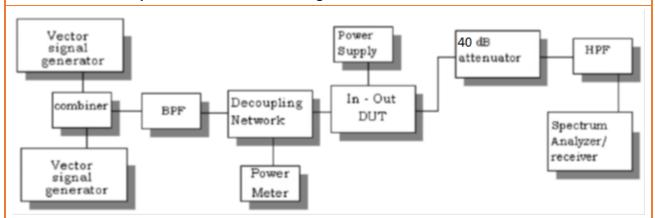
Description of test set-up:

The procedure used was ANSI/TIA-603-E-2016. Two tones (CW) method was used. The input power to the amplifier was set at maximum drive level by combining the two tones. The two tones were chosen in such a way (1) the third order intermodulation product frequencies are located within the pass band of the DUT and (2) they produce the worst-case emissions out of band. All signals were modulated.

Based on FCC KDB 935210 D05 Indus Booster Basic Meas v01r02: 2017, the two tone was located on either side of the maximum gain frequence in the passing band, and separated with the available spacing, which is 12.5kHz in 150 MHz band and 450 MHz band.

Measurements were performed with modulated -tone at identical input amplitude which produced integrated maximum rated output power.

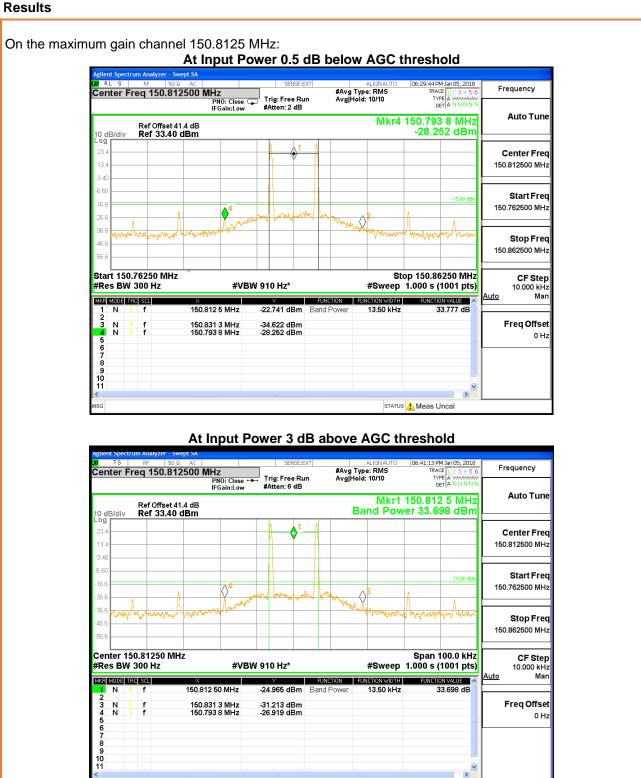
The EUT was set to Operation Mode #1 with configuration Mode #1.



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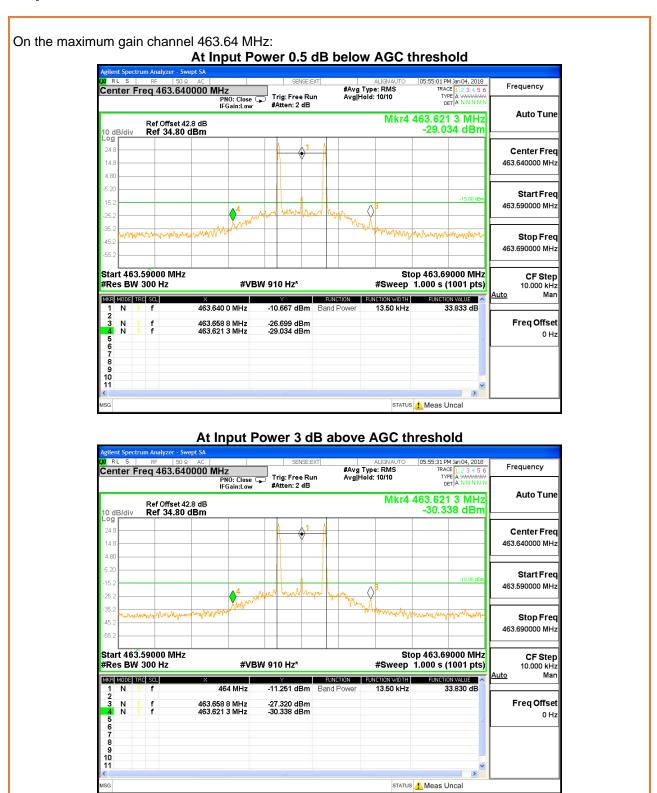
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STATUS Meas Uncal

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Client: Dali Wireless, Inc.

Input/output Power and Amplifier/Booster Gain

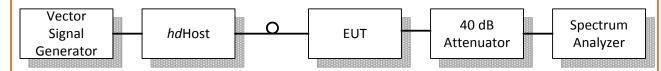
Governing Doc	FCC Part 90.219		Room	Temperature (°C)	24		
Test Procedure	ANSI/TIA-603-E-2016; FCC KDB 935210 D05 Indus Booster Basic M v01r02: October 27, 20	eas Relative Humidity (%)				33.9		
Test Location	Burnaby		Barom	etric Pressure (k	Pa)		101.3	
Test Engineer	Sophie Piao/Jeremy Le	е	Date			Ja	ın 04, 2018	
EUT Voltage	⊠ DC	□ 120VAC @ 60Hz						
Test Equipment Used	Manufacturer	Me	odel	Identifier	Ca	libration	Calibration due	
Signal Generator	Keysight	N5	172B	MY53050270	30	3/04/17	08/04/18	
Spectrum Analyzer	Keysight	N9(010A	MY50520285	30	3/07/17	08/07/18	
40dB Attenuator	Aeroflex Winschel	58-4	40-43	n/p		CVP	CVP	
Note) CVP = Calibration	n Verification Performed	d interr	nally, n/p	o = not provided.				
Span:		ncy ± 1	500kHz	:				
Detector:	⊠ Peak							
RBW/VBW:	⊠100k Hz/ 300 kHz							
Type of Facility:	⊠ Tabletop	⊠ Tabletop						
Distance:								
Maximum booster gain	is 44 dB.							
Compliant ⊠	Non-Compl	iant 🗆		Not App	olicat	ole 🗆		

Test setup

Description of test set-up:

The procedure used was ANSI/TIA-603-E-2016 and FCC KDB 935210 D05 Indus Booster Basic Meas v01r02:. A CW tone was input at the frequency where the system gain is the maximum in the pass band, with the nominal input power level -10 dBm. The spectrum analyzer was connected to the output RF port via a 50 Ohm 40 dB attenuator. The maximum hold trace and peak detector was used to capture the output power. The output power minus the input power (-10dBm) equals to the booster gain in dB.

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



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Results

	150 band	450 band
DL Gain	43.9 dB	44 dB

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Noise Figure

Governing Doc	FCC Part 90.219		Room Temperature (°C)				24		
Test Procedure	ANSI/TIA-603-E-2016; FCC KDB 935210 D05 Indus Booster Basic Meas v01r02: October 27, 2017	-	Relative Humidity (%)			33.9			
Test Location	Burnaby		Barome	tric Pressure (kP		101.3			
Test Engineer	Sophie Piao/Jeremy Lee		Date			Ja	n 04, 2018		
EUT Voltage	⊠ DC	□ 120VAC @ 60Hz							
Test Equipment Used	Manufacturer	N	Model	Serial Number	Ca	llibration	Calibration due		
Spectrum Analyzer	Keysight	Ν	9010A	MY50520285	0	8/07/17	08/07/18		
Note) CNR = Calibratio	n not required when used v	with	other ca	alibrated equipme	ent.				
Frequency Range:		the	e center f	requency of the p	oas	sband on	each band		
Detector:	⊠ Average								
RBW:	⊠910 kHz								
Type of Facility:	⊠ Tabletop								
Distance:	stance: 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 v01r02: 2017, the system maximum gain and the noise density is measured. Measurements were performed within the EUT's passband.

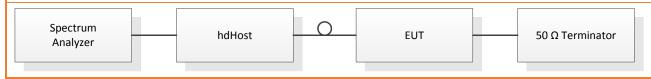
The noise figure is then calculated by NF = NP – Gain + KTB Noise; where

NP is in band noise power per Herz,

Gain is in band booster gain, which is 55 dB in UL.

KTB Noise is 174dB/Hz at room temperature.

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



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Center 481.00 MHz Res BW 910 kHz

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Results



VBW 91 kHz*

Span 100.0 MHz Sweep 1.267 ms (1001 pts)

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Radiated Emissions - Enclosure

Client: Dali Wireless, Inc. Report No.:16608-1E Revision No.: 1

aduated Emissions - Enclosure									
Governing Doc	FCC Part 2.1053, FCC Part 90.210 & FCC Part 90.219		Room Ten	nperature (23.5				
Test Procedure	ANSI TIA-603-D		Relative H	lumidity (%))		46.0		
Test Location	Richmond		Barometri	c Pressure	(kPa)	1	100.9		
Test Engineer	David Johanson		Date			22 N	ov. 2017		
EUT Voltage	⊠ DC		□ 120V	AC @ 60Hz	<u>.</u>				
Test Equipment Used	Manufacturer		Model Identifier			ration date	Calibration		
Spectrum Analyzer	KeySight	N	N9038A 702		18-	Apr-2017	18-Apr-2018		
Broadband Antenna	Sunol		JB1 371		29-Mar-2016		29-Mar-2018		
Loop Antenna	ComPower	A	AL-130 241		11-Nov-2017		11-Nov-2019		
Horn Antenna	A.H Systems	S	SAS-571 227C		22-Sep-2016		22-Sep-2018		
RF Preamplifier	Agilent		8449B	273	NCR		NCR		
EMC Shielded Enclosure	USC	ι	USC-26 374 NC			NCR1	NCR ¹		
Note1) NCR = No Calib	ration Required, but NSA	was (done at 20	16.					
Frequency Range:	⊠ 9kHz-30MHz	⊠ 30)-1000MHz	Z	⊠ 1-	-5GHz			
Detector:	□ Peak (for Prescan)	⊠ Q	uasi-Peak	(for Formal))) 🗵	Average(f	or Formal)		
RBW/VBW:	⊠ 9/30kHz	⊠ 12	120/300kHz ⊠ 1/3MHz						
Type of Facility:	⊠ SAC	⊠ F	☐ FSOATS ☐ in-situ						
Distance:		□ 10	☐ 10meter ☐ 1meter						
Arrangement of EUT:	□ Table-top only	□ FI	☐ Floor-standing only ☐ Rack Mounted						
Compliant ⊠	Non-Compliar	nt 🗆		Not Ap	plicabl	е 🗆			

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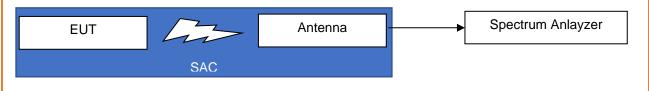
Client: Dali Wireless, Inc.

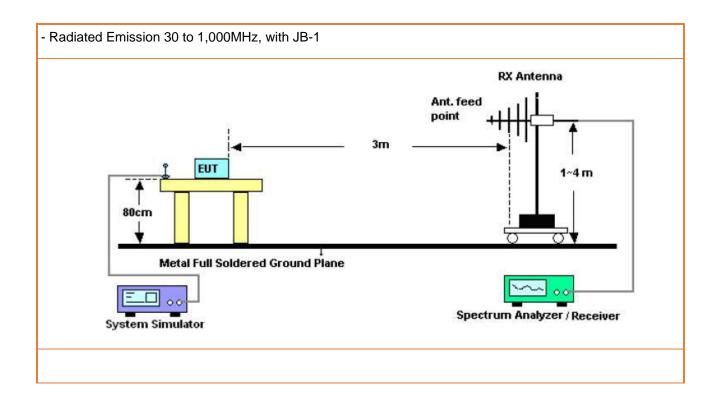
Test setup

Description of test set-up:

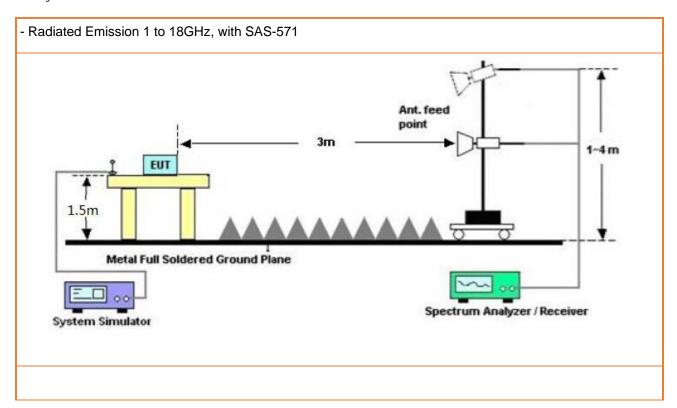
The EUT was placed on a nonconducting platform (i.e., an "EUT support table"), of nominal size 1 m by 1.5 m, whose top surface is nominally 80 cm above the reference ground plane. The EUT was set up on 3 meters away from the EUT. The EUT was set continually on its Radio, 1W Max., which was downlinked from tHOST. And the output of RF was terminated via 40dB 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.





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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: $43 + 10\log(P) = 43 + 10\log(1) = 43dB$ 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)

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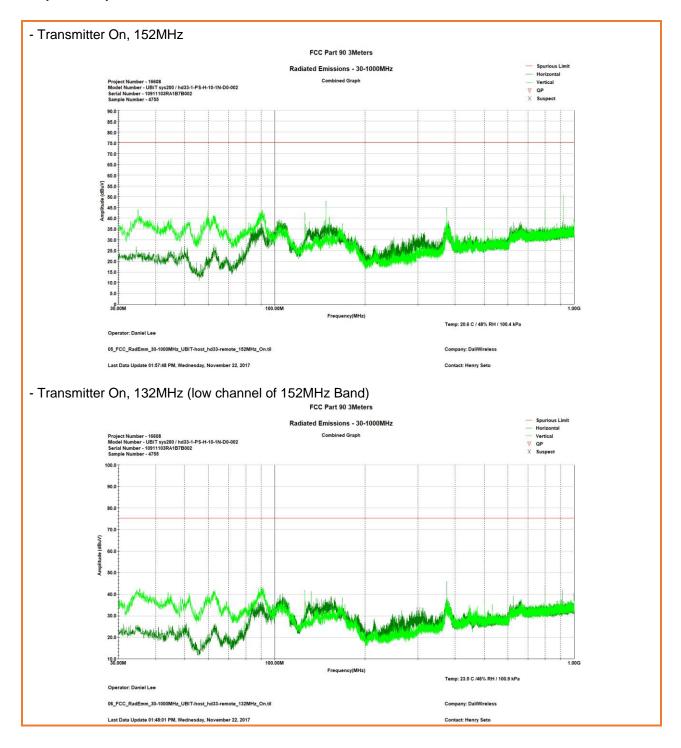
Graphical Representation for Emission - Radiated 30kHz to 30MHz

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

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Graphical Representation for Emission - Radiated 30MHz to 1GHz



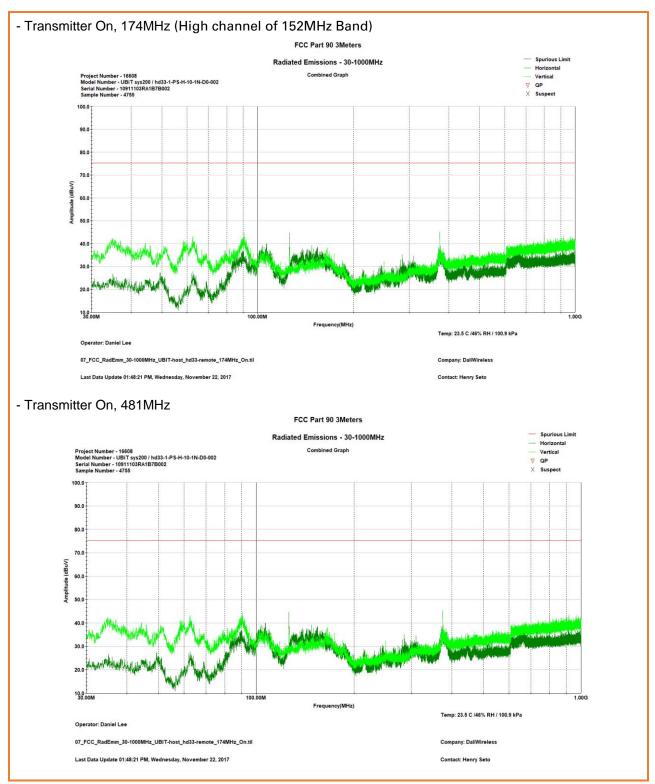
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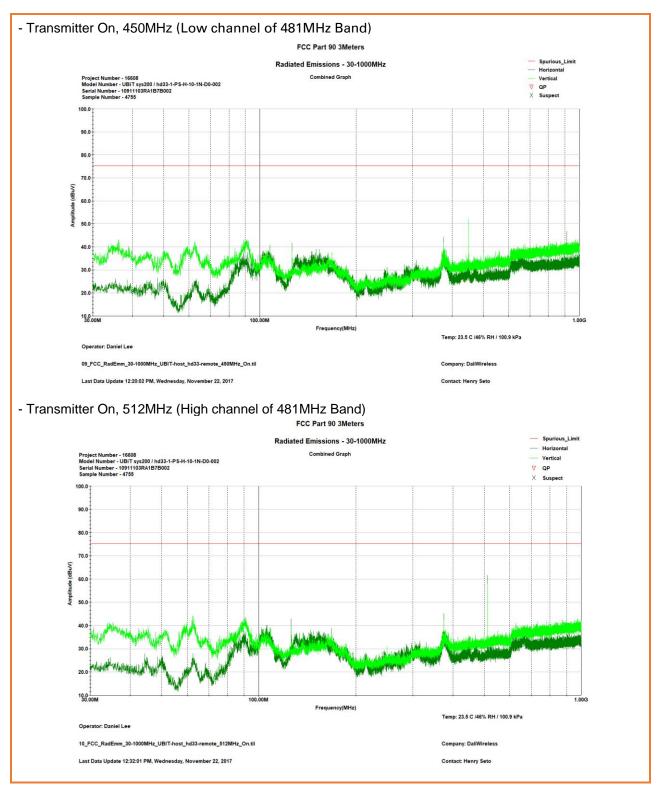
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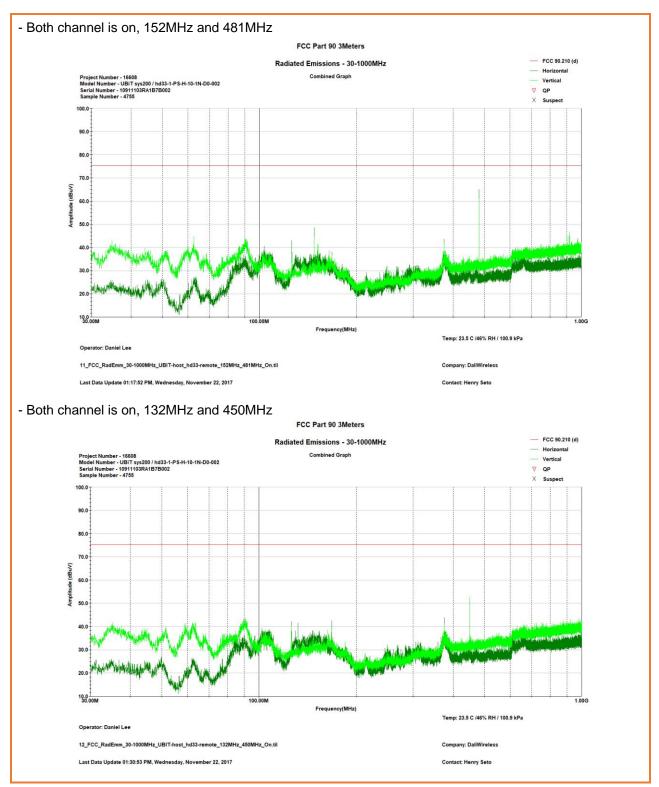
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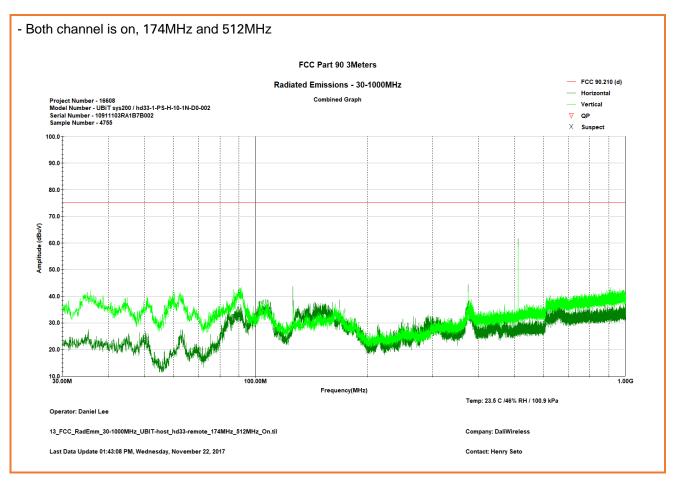
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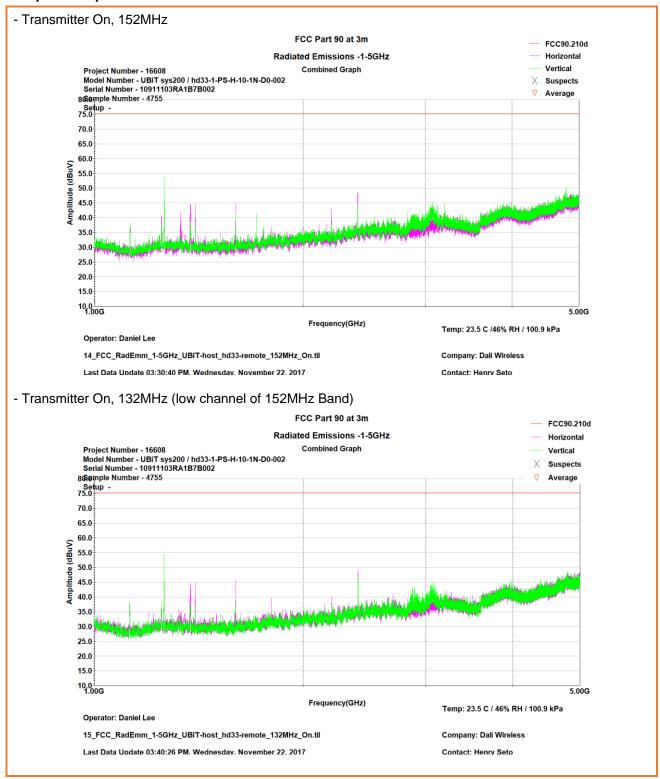
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Client: Dali Wireless, Inc.

Graphical Representation for Emission - Radiated 1 to 5GHz



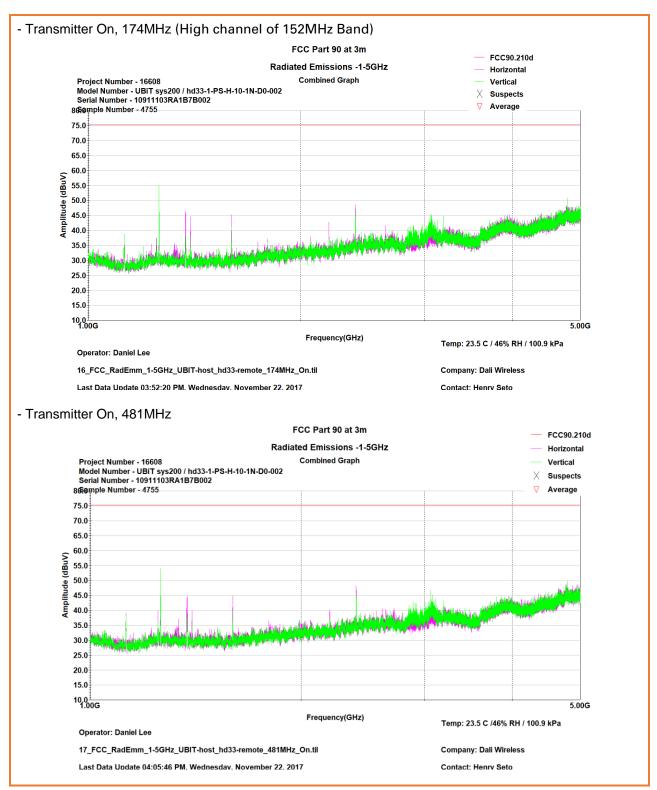
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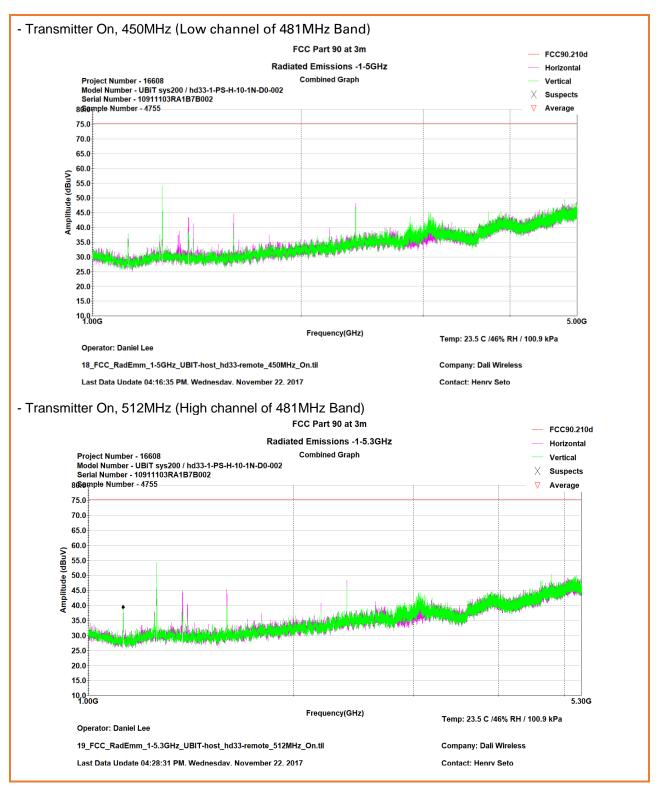
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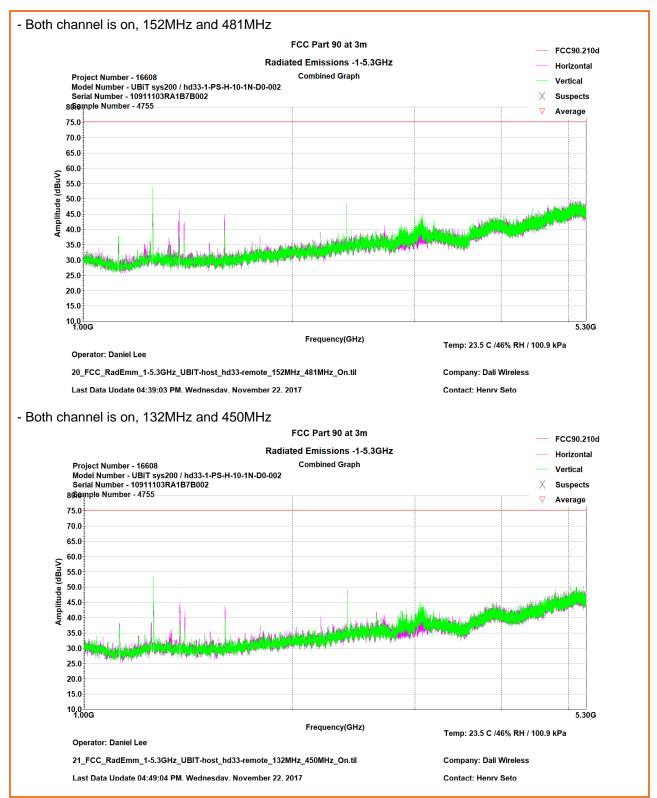
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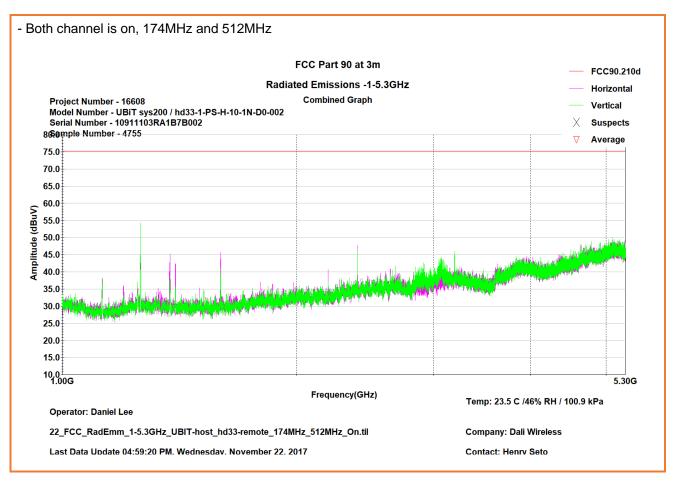


Table Representation for Emission - Radiated 30MHz to 18GHz

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.

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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





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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).

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DCN: 1036, Rev 2

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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 4-2014		
Industrial, Scientific, and Medical Equipment (FCC Part 18)	FCC MP-5, (February 1986)	-A	
Consumer ISM equipment			
Intentional Radiators (FCC Part 15 Subpart C)	ANSI C63.10-2013		
UPCS(FCC Part 15, Subpart D)	 ANSI C63.17-2013 		
•Unlicensed Personal			
Communication Systems devices			
U-NII without DFS Intentional	 ANSI C63.10-2013 	KDB Publication 789033	
Radiators (FCC Part 15 , Subpart E)			
 Unlicensed National Information 			
Infrastructure Devices (U-NII			
without DFS)			
U-NII with DFS Intentional	FCC KDB Publication		
Radiators (FCC Part 15 Subpart E)	905462 D02 UNII DFS		
Unlicensed National Information	Compliance Procedures New		
Infrastructure U-NII) Devices with	Rules v01 (April 8, 2016)		
Dynamic Frequency Selection (DFS)			
UWB Intentional Radiators (FCC	ANSI C63.10-2013		
Part 15, Subpart F)			
◆Ultra-wideband Operation			
BPL Intentional Radiators (FCC Part	ANSI C63.10-2013		
15, Subpart G)		I .	
•Access Broadband Over Power		1	
Line (Access BPL)			
White Space Device Intentional	ANSI C63.10-2013		
Radiators (FCC Part 15, Subpart H)			
◆White Space Devices	1	1	

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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)	TIR-102:CRAR-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)	TIM-102.CMPIN-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	
(FCC Licensed Radio Service	TIA-102.CAAA-D	in branks, inco	
Equipment)	TIM-102.CMPUT-D		
•Part 96			
Maritime and Aviation Radio	ANSI/TIA-603-D		
Services (FCC Licensed Radio	A A A	4	
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)			
•Part 25			
•Part 74			
•Part 90 (90 Y, 90 Z, D SRC)			
•Part 101			
Broadcast Radio Services (FCC	• ANSI/TIA-603-D		
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			

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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 55016-2-1(2014); EN 55016-2-2(2011); EN 55016-2-3(2014); EN 55016-2-3(2014); EN 55016-2-3(2014); EN 55016-2-3(2014); EN 55016-2-3(2014); CN 55011(2013); AS/NZS 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	

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