



TEST REPORT

For

Dali Wireless (Canada) Inc.

8618 Commerce Ct.
Burnaby, British Columbia
V5A 4N6, Canada

Date: April 09, 2015
Report No.: 12675-1E
Revision No.: 0
Project No.: 12675
Equipment: Radio Remote
Model No.: t30-SNI-1NB

ONE STOP GLOBAL CERTIFICATION SOLUTIONS



3133-20800 Westminster Hwy, Richmond, BC
V6V 2W3, Canada
Phone: 604-247-0444
Fax: 604-247-0442
www.labtestcert.com

Prepared by: LabTest Certification Inc.
Date Issued: April 09, 2015
Project No: 12675


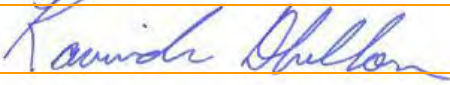

Client: Dali Wireless Inc.
Report No.: 12675-1E
Revision No.: 0

TABLE OF CONTENTS

TEST REPORT	3
General product information:.....	5
List of ancillary and/or support equipment provided by the applicant	5
Description of Interface Cables for Testing	5
Software and Firmware	5
Worst-case configuration and mode of operation during testing.....	5
Modifications Required for Compliance.....	6
Test Equipment Verified for function	6
Measurement Uncertainty	6
Markings	7
Test Summary	7
Radiated Spurious Emissions	8
Test Limits.....	8
Test Setup.....	8
Test Results:	9
APPENDIX A: Test Equipment Used	22
APPENDIX B: EUT photos.....	23
APPENDIX C: Test setup photos	24

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

TEST REPORT	
FCC 90 and RSS-131	
Report reference No.	12675-1E
Report Revision History:	✓ Rev. 0: April 09, 2015
Tested by (printed name and signature)	Jeremy Lee 
Approved by (printed name and signature)	Kavinder Dhillon, Eng.L 
Date of issue	April 09, 2015
Note: By signing this report, both the Testing Technician and the Reviewer hereby declare to abide by the applicable LabTest policies:	
1.) Statement of Independence # 3014 (LabTest Employees),	
2.) Independence, Impartiality, and Integrity #1039, clause 11 (Engineering Service Subcontractors), or	
3.) Independence, Impartiality, and Integrity #1019, clause 3.5 (Testing Subcontractors).	
Testing Laboratory Name	LabTest Certification Inc.
Address	3133 – 20800 Westminster Hwy, Richmond, B.C. V6V 2W3
FCC Site Registration No.	373387
IC Site Registration No.	5970A-2
Test Location Name	LabTest Certification Inc.
Address	3133 – 20800 Westminster Hwy, Richmond, B.C. V6V 2W3
Applicant's Name	Dali Wireless (Canada) Inc.
Address	8618 Commerce Ct. , Burnaby, B.C., V5A 4N6 Canada
Manufacturer's Name	Same as Applicant
Address	Same as Applicant
Test specification	
Standards	✓ CFR 47 Part 90 ✓ RSS-131
Testing	
Date of receipt of test item	April 06, 2015
Date(s) of performance of test	April 06 to 08, 2015
Test item description	
Trademark	

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

Model and/or type reference	t30-SNI-1NB
FCC & IC ID.....	FCC ID: HCOT30SNI1A
Serial numbers	15327421E01B52002
Electrical Rating(s)	48VDC, 1.6A

Product descriptions

Application for	800MHz Public Safety Radio
Operating Frequency	851 to 862MHz
Equipment mobility	No
Type of Modulation	P25-C4PM, P25-HCPM, P25-HDQPSK, P25-CQPSK, FM
Maximum Output Power	1 Watt(+30dBm)
Bandwidth	- 25 kHz: FM - 12.5kHz: P25-C4PM, P25-HCPM, P25-HDQPSK - 6.25kHz: P25-CQPSK
Transmitted Channel	Lowend, Middle and Highend - 25 kHz: 851.0125, 856.5, and 861.9875MHz -12.5kHz: 851.00625, 856.5, and 861.99375MHz - 6.25: 851.003125, 856.5, and 861.996875MHz
Nominal Voltages for	<input checked="" type="checkbox"/> stand-alone equipment <input type="checkbox"/> combined (or host) equipment <input type="checkbox"/> test jig
Supply Voltage	_____ AC _____ Amps _____ Hz _____ 48V _____ DC _____ 1.6 _____ Amps
If DC Power	<input checked="" type="checkbox"/> External Power Supply <input type="checkbox"/> Host system is supplied the DC power <input type="checkbox"/> Battery
Size of equipment(Width X High X Depth) ..	12.9" X 18.9" X 4.6"
Mass of equipment (kg).....	11
Operating Temperature Range	0 to + 40 °C

Test case verdicts

Test case does not apply to the test object :	N/A
Test item does meet the requirement	Pass
Test item does not meet the requirement ..	Fail

General product information:

The EUT, Dali's t30SNI1NB, (30 dBm, 1 W) is an all-digital, low power, single-band radio remote. It bi-directionally transfers 800 MHz public safety bands over a single optical fiber (SFP –Single Mode Fiber) to/from the tHost® at 6 Gb/s up to 40 km. It also accommodates 1Gb/s Ethernet backhaul as well. This smart radio remote enables multiple network topologies that cater to different deployments scenarios including star, chain, hybrid and loop topologies.

List of ancillary and/or support equipment provided by the applicant

Model No.	Description	Manufacturer	Approvals/Standards
tHOST-SN-SS2S	HOST	Dali	CE
N5182B	Digital Signal Generator	Agilent	CE, FCC
DT150PW480C	AC to DC Power Adaptor	TDK-Lamda	CE, FCC
2808-CZU	Laptop	Lenovo	CE, FCC

Description of Interface Cables for Testing

Description	Cable Type	Cable length	Ferrite
DC Input	Shielded, 1 wire Cable	1 meter	YES
RF In/out	Coaxial, Type N to Type N, 50 Ohm terminated with 40dB attenuator	1 meter	N/A
AUX	Ethernet cable, 5e UTP, terminated to ETN Port	2 meters	YES
O1	Fiber Optic Cable	10 meters	N/A
Ground	1 wire ground cable, connected to Ground floor	2 meters	N/A

ARRANGEMENT OF INTERFACE CABLES: All interface cables were positioned for worst-case maximum emissions within the manner assumed to be a typical operation condition (please reference photographs).

Software and Firmware

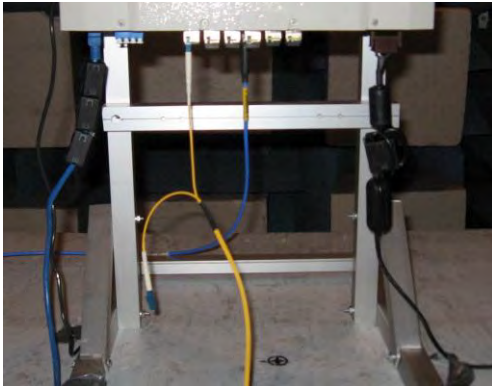
Description	Version
NMS_monitoring for HOST and REMOTE	1.9.0RC10.9

Worst-case configuration and mode of operation during testing

The EUT was connected to HOST, t30 via Fiber Optic cable and kept sending out downlinked radio, 1W Max.

Modifications Required for Compliance

To reduce the radiated emissions, some ferrites were installed AUX and DC In Cables as see below photos.



Test Equipment Verified for function

Model #	Description	Checked Function	Results
E7405	Spectrum Analyzer	Frequency and Amplitude	Connected 50MHz and -20dBm Cal_siganl and checked OK.
AT8447D	Pre-Amplifier, 30 to 1,000MHz	Gain at 30 and 1,000Mhz	Gains are normal.
8449B	Pre-Amplifier, 1 to 26.5GHz	Gain at 1 to 26.5GHz	Gains are normal.
JB1	Anatenna, 30 to 1000MHz	Checked structure	Normal – no damage.
SAS-571	Anatenna, 1 to 18GHz	Checked structure	Normal – no damage
5001i	AC Power Source	Measured the Output power, 120VAC, 60Hz	Working normally
Onset HOBO	Humidity/ Temperature Logger	Compared room Temp. and Hum. with another data logger	Working normally

Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests:

Parameter	Uncertainty(dB)
Radiated Emission, 30 to 1,000MHz	4.67
Radiated Emission, 1 to 18GHz	4.65

Uncertainty figures are valid to a confidence level of 95%.

Prepared by: LabTest Certification Inc.
Date Issued: April 09, 2015
Project No: 12675

Client: Dali Wireless Inc.
Report No.: 12675-1E
Revision No.: 0

Markings



You should refer to the clause of FCC Part 2 Section 2.295 & 2.296 and FCC Part 15 Section 15.19 for information to be contained on the label as well as information about the label. Any other statements or labelling requirements may appear on a separate label at the option of the applicant/grantee. The label has to be including FCC IC/IC ID, Product Number and Manufacturer Info.

According to FCC Section 2.925(a),

(a) Each equipment covered in an application for equipment authorization shall bear a nameplate or label listing the following:

(1) FCC Identifier consisting of the two elements in the exact order specified in §2.926. The FCC Identifier shall be preceded by the term *FCC ID* in capital letters on a single line, and shall be a type size large enough to be legible without the aid of magnification.

Example: FCC ID XXX123. XXX-Grantee Code 123-Equipment Product Code

Test Summary

When configured and operated as specified in this report, the product was found to comply with the requirements as indicated below.

Test Type	Regulation	Measurement Method	Result
Radiated Emissions-Intentional _Spurious	90.210 & 219	ANSI/TIA-603-C-2004	PASS

Radiated Spurious Emissions

Temperature	20.0 °C
Relative Humidity	40.0 %
Barometric Pressure:	102.0 kPa
Test Date	April 07 to 08, 2015
Sample Number	3506
Calibrated Test Equipment (ID)	227-3, 266, 272, 273, 371, 516
Reference Equipment (ID) (Calibration not required)	374
Electrical Rating	Internal battery
Tested By	Jeremy LEE

Use the barometric pressure reported at: <http://www.theweathernetwork.com/weather/cabc0248>

Test Limits

FCC §2.1053 Measurements required: Field strength of spurious radiation.

(a) Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonic and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of §2.1049, as appropriate.

FCC §90.210 Emission masks.

(g) Emission Mask G. For transmitters that are not equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(2) On any frequency removed from the center of the authorized bandwidth by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log (P)$ dB.

FCC §90.219 Use of signal boosters.

(e) Device Specifications. In addition to the general rules for equipment certification in §90.203(a)(2) and part 2, subpart J of this chapter, a signal booster must also meet the rules in this paragraph.

(3) Spurious emissions from a signal booster must not exceed -13 dBm within any 100 kHz measurement bandwidth.

Test Setup

The test was performed in accordance with **ANSI/TIA-603-C-2004**.

The test setup for Field Strength of Spurious is shown in Figure - 1.

- The EUT was placed on a wooden Table and it was put on the turning ground plate in Chamber.
- 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 emissions .
- It was measured with a receiver - spectrum analyzer, Antenna and pre-amplifier, was software controlled.

Test Results:

The output of EUT was set to 1 Watt(+30dBm), the PASS level of Spurious is:

$$43 + 10\log(P) = 43 + 10\log(1) = 43\text{dB attenuation} = -13\text{dBm}$$

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:

$$-13 \text{ dBm ERP} = 84.38 \text{ dBuV/m at 3 meters.}$$

Spurious Emission level (dBuV/m) = Detected level (dBuV) + Path Loss(dB) + Antenna Factor (dB/m) - Pre-amplifier's Gain (dB)

X **Pass** **Fail** **N/A**

**There was no radiated spurious emissions were detected between 9 kHz to 30MHz.
And all Spurious Emissions from 30MHz to 10GHz were below the limit value, 84.38dBuV/m.**

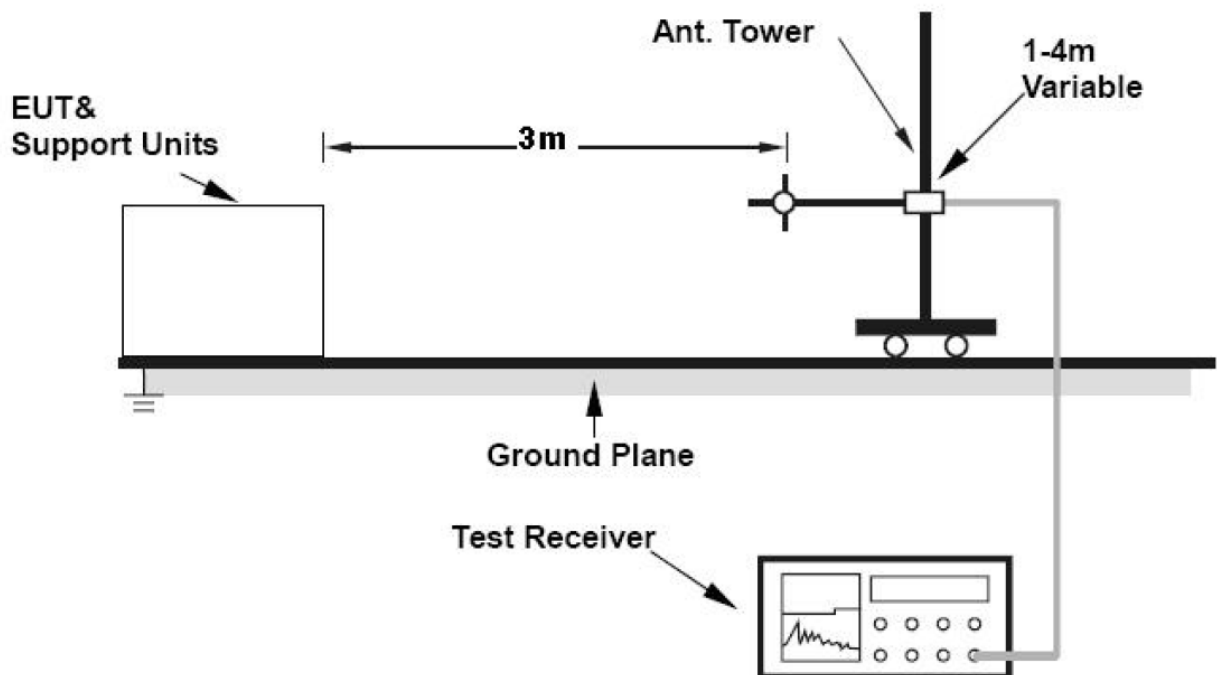
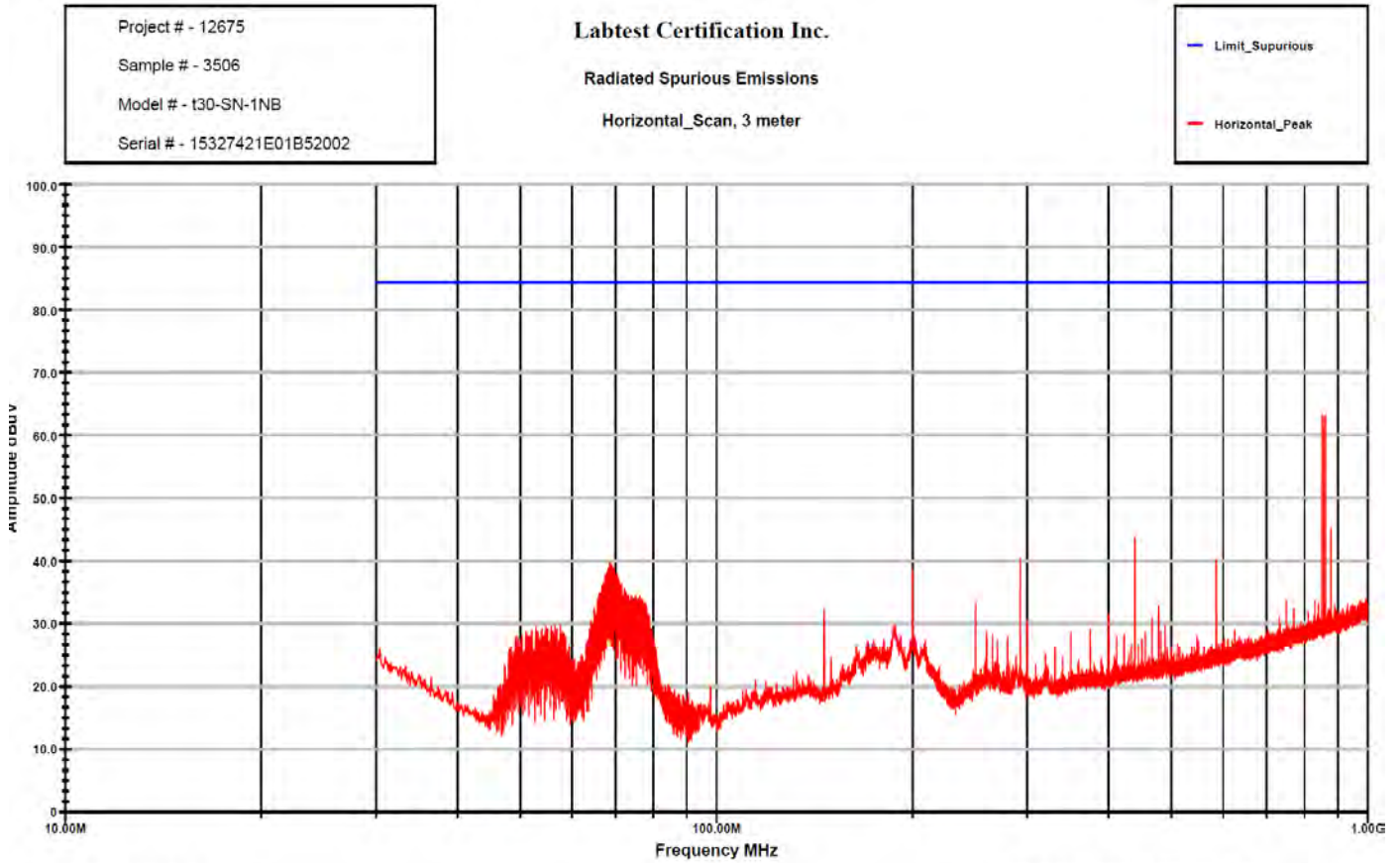


Figure – 1 Test setup for Radiated Spurious Emissions

Prepared by: LabTest Certification Inc.
Date Issued: April 09, 2015
Project No: 12675

Client: Dali Wireless Inc.
Report No.: 12675-1E
Revision No.: 0

- The Graph of Radiated Spurious Emissions; P25-C4PM; Radio was swept, 30 to 1,000MHz, Horizontal, JB1 was used.



Operator: Jeremy Lee

T: 21.0 C, H: 39.0 %, BP.:102.1 kPa

RE_Scan_Spur_w AUX.TIL

Contact: Sean Jung

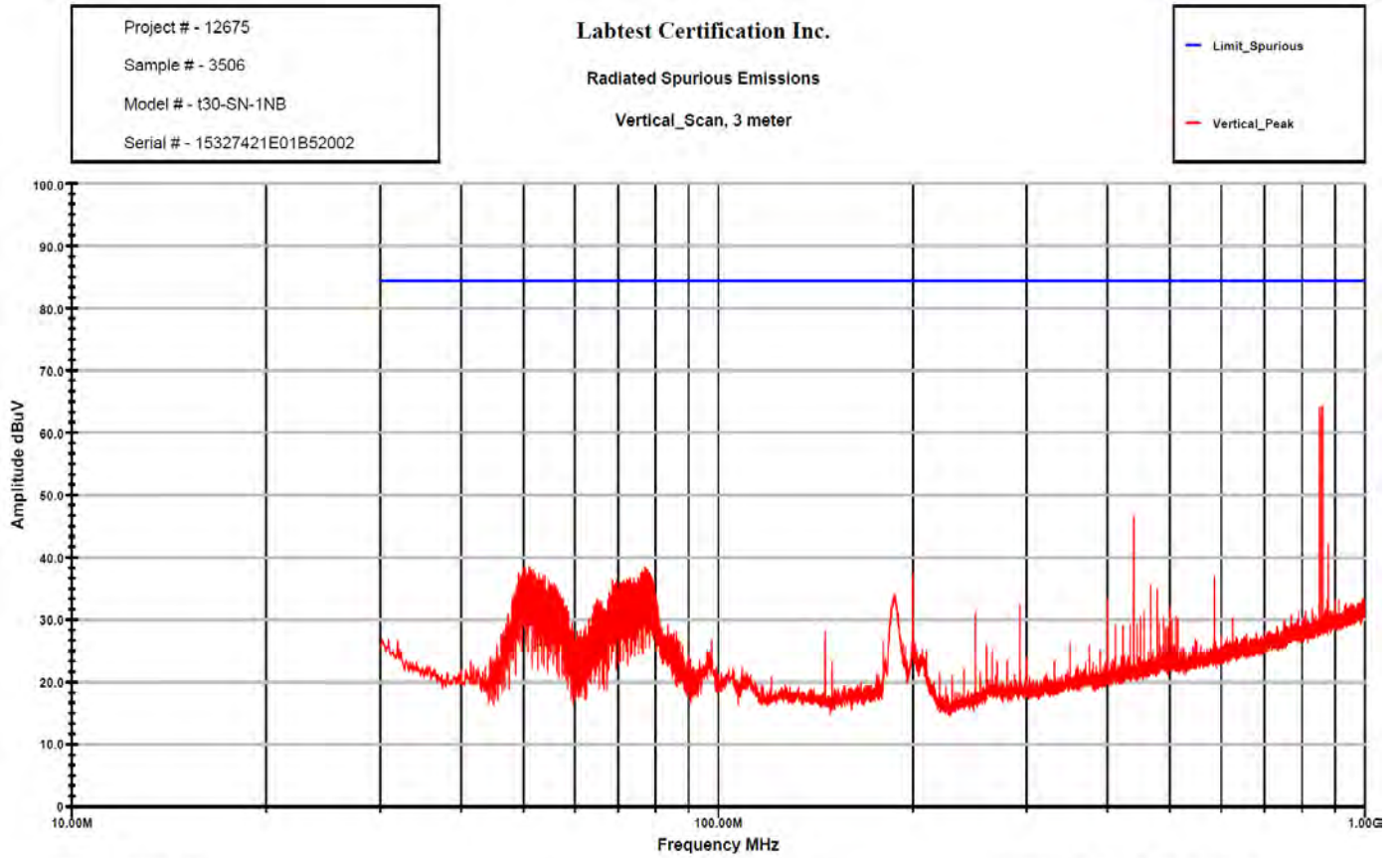
04:31:32 PM, Friday, April 10, 2015

Company: Dali Wireless Inc.

Prepared by: LabTest Certification Inc.
Date Issued: April 09, 2015
Project No: 12675

Client: Dali Wireless Inc.
Report No.: 12675-1E
Revision No.: 0

- The Graph of Radiated Spurious Emissions; P25-C4PM; Radio was swept, 30 to 1,000MHz, Vertical, JB1 was used.



Operator: Jeremy Lee

T: 21.0 C, H: 39.0 %, BP.:102.1 kPa

RE_Scan_Spur_w AUX.TIL

Contact: Sean Jung

04:31:32 PM, Friday, April 10, 2015

Company: Dali Wireless Inc.

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

- The Table of Radiated Spurious Emissions, P25-C4PM, Lowend; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB

04:38:39 PM, Friday, April 10, 2015

Contact: Sean Jung

Company: Dali Wireless Inc.

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.70201250 GHz	48.88	26.14	-32.14	42.27	84.38	42.11	300.5	100.1	H
2.55301875 GHz	34.31	30.02	-31.97	31.93	84.38	52.45	145.5	192.3	H
3.40402500 GHz	37.33	31.09	-31.65	36.42	84.38	47.96	267.0	100.3	H
4.25503125 GHz	34.55	32.30	-31.37	34.54	84.38	49.84	330.2	159.6	H
5.10603750 GHz	27.86	35.10	-30.95	30.87	84.38	53.51	300.3	100.1	H
5.95704375 GHz	26.29	36.01	-30.59	30.61	84.38	53.77	300.3	100.2	H
6.80805000 GHz	26.82	37.43	-30.60	32.65	84.38	51.73	300.2	100.2	H
7.65905625 GHz	27.83	37.57	-30.64	34.01	84.38	50.37	300.2	100.2	H
8.51006250 GHz	26.76	38.09	-30.72	33.81	84.38	50.57	300.2	100.2	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB

04:38:39 PM, Friday, April 10, 2015

Contact: Sean Jung

Company: Dali Wireless Inc.

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.70201250 GHz	40.25	26.10	-32.14	33.64	84.38	50.74	150.1	201.0	V
2.55301875 GHz	34.64	30.02	-31.97	32.30	84.38	52.08	150.2	157.3	V
3.40402500 GHz	32.69	31.09	-31.65	31.82	84.38	52.56	15.1	216.8	V
4.25503125 GHz	35.40	32.31	-31.37	35.50	84.38	48.88	78.5	153.2	V
5.10603750 GHz	27.34	35.21	-30.95	30.36	84.38	54.02	81.6	150.1	V
5.95704375 GHz	26.51	35.76	-30.59	30.85	84.38	53.53	90.0	150.5	V
6.80805000 GHz	26.76	37.37	-30.60	32.70	84.38	51.68	90.0	150.5	V
7.65905625 GHz	26.87	37.65	-30.64	33.18	84.38	51.20	90.0	150.5	V
8.51006250 GHz	26.88	38.20	-30.72	33.91	84.38	50.47	90.0	150.5	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

- The Table of Radiated Spurious Emissions; P25-C4PM, Middle; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB

04:39:16 PM, Friday, April 10, 2015

Contact: Sean Jung

Company: Dali Wireless Inc.

Frequency Hz	Measured	AntFactor	PathLoss	Measured_ERP	Limit_ERP	Margin_ERP	T/T	Tower	POL
	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	Degree	cm	
1.71300000 GHz	49.29	26.18	-32.13	42.74	84.38	41.64	95.3	100.2	H
2.56950000 GHz	39.18	30.01	-31.96	36.80	84.38	47.58	155.6	117.5	H
3.42600000 GHz	40.01	31.06	-31.64	38.95	84.38	45.43	170.8	100.1	H
4.28250000 GHz	34.84	32.29	-31.35	34.87	84.38	49.51	350.7	110.2	H
5.13900000 GHz	26.95	35.04	-30.94	30.05	84.38	54.33	83.5	100.1	H
5.99550000 GHz	26.22	36.15	-30.57	30.64	84.38	53.74	83.5	100.1	H
6.85200000 GHz	26.56	37.45	-30.60	32.45	84.38	51.93	83.5	100.1	H
7.70850000 GHz	27.06	37.68	-30.63	33.36	84.38	51.02	83.5	100.1	H
8.56500000 GHz	27.14	38.01	-30.69	34.20	84.38	50.18	83.5	100.1	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:39:16 PM, Friday, April 10, 2015

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.71300000 GHz	43.86	26.13	-32.13	37.32	84.38	47.06	60.5	150.3	V
2.56950000 GHz	36.73	30.03	-31.96	34.39	84.38	49.99	150.8	155.7	V
3.42600000 GHz	40.35	31.06	-31.64	39.38	84.38	45.00	288.4	123.5	V
4.28250000 GHz	34.65	32.30	-31.35	34.73	84.38	49.65	65.1	225.6	V
5.13900000 GHz	27.37	35.16	-30.94	30.46	84.38	53.92	295.3	117.9	V
5.99550000 GHz	26.72	35.90	-30.57	31.24	84.38	53.14	295.3	117.9	V
6.85200000 GHz	27.58	37.40	-30.60	33.58	84.38	50.80	295.3	117.9	V
7.70850000 GHz	27.08	37.77	-30.63	33.45	84.38	50.93	295.3	117.9	V
8.56500000 GHz	27.61	38.11	-30.69	34.65	84.38	49.73	295.3	117.9	V
Project #: 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

- The Table of Radiated Spurious Emissions, P25-C4PM, Highend; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:37:42 PM, Friday, April 10, 2015

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.72398750 GHz	50.53	26.22	-32.13	44.03	84.38	40.35	71.2	128.0	H
2.58598125 GHz	37.42	30.00	-31.96	35.03	84.38	49.35	330.1	100.3	H
3.44797500 GHz	40.33	31.03	-31.63	39.13	84.38	45.25	358.6	130.5	H
4.30996875 GHz	35.72	32.33	-31.33	35.80	84.38	48.58	12.5	145.7	H
5.17196250 GHz	25.25	34.97	-30.93	28.39	84.38	55.99	360.0	100.0	H
6.03395625 GHz	25.11	36.14	-30.57	29.58	84.38	54.80	360.0	100.0	H
6.89595000 GHz	26.44	37.48	-30.59	32.40	84.38	51.98	360.0	100.0	H
7.75794375 GHz	26.14	37.80	-30.63	32.56	84.38	51.82	360.0	100.0	H
8.61993750 GHz	25.68	37.95	-30.66	32.74	84.38	51.64	360.0	100.0	H
Project #: 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:37:42 PM, Friday, April 10, 2015

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.72398750 GHz	44.72	26.16	-32.13	38.26	84.38	46.12	61.4	200.9	V
2.58598125 GHz	34.66	30.03	-31.96	32.31	84.38	52.07	127.4	195.3	V
3.44797500 GHz	39.00	31.02	-31.63	37.92	84.38	46.46	330.2	175.2	V
4.30996875 GHz	34.32	32.34	-31.33	34.43	84.38	49.95	30.1	152.4	V
5.17196250 GHz	26.58	35.12	-30.93	29.73	84.38	54.65	300.1	150.4	V
6.03395625 GHz	26.43	35.90	-30.57	30.99	84.38	53.39	300.1	150.4	V
6.89595000 GHz	27.24	37.43	-30.59	33.31	84.38	51.07	300.1	150.4	V
7.75794375 GHz	27.45	37.88	-30.63	33.93	84.38	50.45	300.1	150.4	V
8.61993750 GHz	26.44	38.05	-30.66	33.51	84.38	50.87	300.1	150.4	V
Project #: 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

- The Table of Radiated Spurious Emissions, P25-HCPM, Lowend; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee
 04:42:59 PM, Friday, April 10, 2015

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.70201250 GHz	48.88	26.14	-32.14	42.27	84.38	42.11	300.8	100.2	H
2.55301875 GHz	34.31	30.02	-31.97	31.93	84.38	52.45	153.1	144.8	H
3.40402500 GHz	37.33	31.09	-31.65	36.42	84.38	47.96	265.3	100.5	H
4.25503125 GHz	34.55	32.30	-31.37	34.54	84.38	49.84	55.5	144.7	H
5.10603750 GHz	27.86	35.10	-30.95	30.87	84.38	53.51	360.0	100.7	H
5.95704375 GHz	26.29	36.01	-30.59	30.61	84.38	53.77	360.0	100.7	H
6.80805000 GHz	26.82	37.43	-30.60	32.65	84.38	51.73	360.0	100.7	H
7.65905625 GHz	27.83	37.57	-30.64	34.01	84.38	50.37	360.0	100.7	H
8.51006250 GHz	26.76	38.09	-30.72	33.81	84.38	50.57	360.0	100.7	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee
 04:42:59 PM, Friday, April 10, 2015

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.70201250 GHz	40.25	26.10	-32.14	33.64	84.38	50.74	148.2	200.1	V
2.55301875 GHz	34.64	30.02	-31.97	32.30	84.38	52.08	142.3	174.8	V
3.40402500 GHz	32.69	31.09	-31.65	31.82	84.38	52.56	308.0	168.8	V
4.25503125 GHz	35.40	32.31	-31.37	35.50	84.38	48.88	62.5	167.2	V
5.10603750 GHz	27.34	35.21	-30.95	30.36	84.38	54.02	140.3	150.1	V
5.95704375 GHz	26.51	35.76	-30.59	30.85	84.38	53.53	140.3	150.1	V
6.80805000 GHz	26.76	37.37	-30.60	32.70	84.38	51.68	140.3	150.1	V
7.65905625 GHz	26.87	37.65	-30.64	33.18	84.38	51.20	140.3	150.1	V
8.51006250 GHz	26.88	38.20	-30.72	33.91	84.38	50.47	140.3	150.1	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

- The Table of Radiated Spurious Emissions; P25-HCPM, Middle; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee
 04:43:32 PM, Friday, April 10, 2015

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.71300000 GHz	50.33	26.18	-32.13	43.78	84.38	40.60	27.8	129.3	H
2.56950000 GHz	37.27	30.01	-31.96	34.89	84.38	49.49	334.4	158.6	H
3.42600000 GHz	36.60	31.06	-31.64	35.54	84.38	48.84	261.3	207.9	H
4.28250000 GHz	36.16	32.29	-31.35	36.19	84.38	48.19	354.8	100.7	H
5.13900000 GHz	26.15	35.04	-30.94	29.25	84.38	55.13	30.0	100.0	H
5.99550000 GHz	26.59	36.15	-30.57	31.01	84.38	53.37	30.0	100.0	H
6.85200000 GHz	26.77	37.45	-30.60	32.66	84.38	51.72	30.0	100.0	H
7.70850000 GHz	26.97	37.68	-30.63	33.27	84.38	51.11	30.0	100.0	H
8.56500000 GHz	26.87	38.01	-30.69	33.93	84.38	50.45	30.0	100.0	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:43:32 PM, Friday, April 10, 2015

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.71300000 GHz	42.14	26.13	-32.13	35.60	84.38	48.78	39.8	229.9	V
2.56950000 GHz	36.74	30.03	-31.96	34.40	84.38	49.98	123.6	215.4	V
3.42600000 GHz	28.88	31.06	-31.64	27.91	84.38	56.47	291.3	186.5	V
4.28250000 GHz	25.38	32.30	-31.35	25.46	84.38	58.92	64.5	226.3	V
5.13900000 GHz	26.65	35.16	-30.94	29.74	84.38	54.64	60.0	150.1	V
5.99550000 GHz	26.25	35.90	-30.57	30.77	84.38	53.61	60.0	150.1	V
6.85200000 GHz	26.60	37.40	-30.60	32.60	84.38	51.78	60.0	150.1	V
7.70850000 GHz	27.03	37.77	-30.63	33.40	84.38	50.98	60.0	150.1	V
8.56500000 GHz	26.68	38.11	-30.69	33.72	84.38	50.66	60.0	150.1	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

- The Table of Radiated Spurious Emissions, P25-HCPM, Highend; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:42:19 PM, Friday, April 10, 2015

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.72398750 GHz	47.86	26.16	-32.13	41.40	84.38	42.98	58.8	148.6	V
2.58598125 GHz	33.70	30.03	-31.96	31.35	84.38	53.03	29.5	212.3	V
3.44797500 GHz	40.11	31.02	-31.63	39.03	84.38	45.35	24.6	104.2	V
4.30996875 GHz	34.87	32.34	-31.33	34.98	84.38	49.40	30.7	149.3	V
5.17196250 GHz	26.23	35.12	-30.93	29.38	84.38	55.00	30.1	150.2	V
6.03395625 GHz	26.18	35.90	-30.57	30.74	84.38	53.64	30.1	150.2	V
6.89595000 GHz	26.74	37.43	-30.59	32.81	84.38	51.57	30.1	150.2	V
7.75794375 GHz	27.06	37.88	-30.63	33.54	84.38	50.84	30.1	150.2	V
8.61993750 GHz	26.98	38.05	-30.66	34.05	84.38	50.33	30.1	150.2	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:42:19 PM, Friday, April 10, 2015

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.72398750 GHz	51.73	26.22	-32.13	45.23	84.38	39.15	28.9	130.0	H
2.58598125 GHz	37.92	30.00	-31.96	35.53	84.38	48.85	334.4	156.2	H
3.44797500 GHz	40.36	31.03	-31.63	39.16	84.38	45.22	360.0	129.3	H
4.30996875 GHz	34.18	32.33	-31.33	34.26	84.38	50.12	185.7	100.7	H
5.17196250 GHz	26.20	34.97	-30.93	29.34	84.38	55.04	30.4	100.1	H
6.03395625 GHz	26.23	36.14	-30.57	30.70	84.38	53.68	30.4	100.1	H
6.89595000 GHz	27.20	37.48	-30.59	33.16	84.38	51.22	30.4	100.1	H
7.75794375 GHz	26.14	37.80	-30.63	32.56	84.38	51.82	30.4	100.1	H
8.61993750 GHz	25.92	37.95	-30.66	32.98	84.38	51.40	30.4	100.1	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

- The Table of Radiated Spurious Emissions, P25- HDQPSK, Lowend; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB

04:44:41 PM, Friday, April 10, 2015

Contact: Sean Jung

Company: Dali Wireless Inc.

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.70201250 GHz	53.35	26.14	-32.14	46.74	84.38	37.64	294.6	100.1	H
2.55301875 GHz	39.10	30.02	-31.97	36.72	84.38	47.66	148.5	101.1	H
3.40402500 GHz	43.51	31.09	-31.65	42.60	84.38	41.78	142.6	121.3	H
4.25503125 GHz	40.44	32.30	-31.37	40.43	84.38	43.95	54.7	100.3	H
5.10603750 GHz	26.11	35.10	-30.95	29.12	84.38	55.26	140.6	100.0	H
5.95704375 GHz	25.42	36.01	-30.59	29.74	84.38	54.64	140.6	100.0	H
6.80805000 GHz	25.92	37.43	-30.60	31.75	84.38	52.63	140.6	100.0	H
7.65905625 GHz	27.39	37.57	-30.64	33.57	84.38	50.81	140.6	100.0	H
8.51006250 GHz	27.72	38.09	-30.72	34.77	84.38	49.61	140.6	100.0	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB

04:44:41 PM, Friday, April 10, 2015

Contact: Sean Jung

Company: Dali Wireless Inc.

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.70201250 GHz	42.84	26.10	-32.14	36.23	84.38	48.15	60.8	105.2	V
2.55301875 GHz	35.32	30.02	-31.97	32.98	84.38	51.40	226.3	100.4	V
3.40402500 GHz	43.74	31.09	-31.65	42.87	84.38	41.51	296.1	137.5	V
4.25503125 GHz	36.26	32.31	-31.37	36.36	84.38	48.02	341.6	108.2	V
5.10603750 GHz	26.92	35.21	-30.95	29.94	84.38	54.44	300.0	150.1	V
5.95704375 GHz	25.82	35.76	-30.59	30.16	84.38	54.22	300.0	150.1	V
6.80805000 GHz	25.95	37.37	-30.60	31.89	84.38	52.49	300.0	150.1	V
7.65905625 GHz	26.70	37.65	-30.64	33.01	84.38	51.37	300.0	150.1	V
8.51006250 GHz	26.55	38.20	-30.72	33.58	84.38	50.80	300.0	150.1	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

- The Table of Radiated Spurious Emissions; P25- HDQPSK, Middle; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB

04:45:11 PM, Friday, April 10, 2015

Contact: Sean Jung

Company: Dali Wireless Inc.

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.71300000 GHz	53.26	26.18	-32.13	46.71	84.38	37.67	299.9	100.3	H
2.56950000 GHz	41.77	30.01	-31.96	39.39	84.38	44.99	154.6	145.5	H
3.42600000 GHz	47.42	31.06	-31.64	46.36	84.38	38.02	169.9	100.0	H
4.28250000 GHz	39.11	32.29	-31.35	39.14	84.38	45.24	354.8	101.0	H
5.13900000 GHz	26.86	35.04	-30.94	29.96	84.38	54.42	160.3	100.0	H
5.99550000 GHz	26.22	36.15	-30.57	30.64	84.38	53.74	160.3	100.0	H
6.85200000 GHz	26.41	37.45	-30.60	32.30	84.38	52.08	160.3	100.0	H
7.70850000 GHz	27.01	37.68	-30.63	33.31	84.38	51.07	160.3	100.0	H
8.56500000 GHz	27.21	38.01	-30.69	34.27	84.38	50.11	160.3	100.0	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:45:11 PM, Friday, April 10, 2015

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.71300000 GHz	46.14	26.13	-32.13	39.60	84.38	44.78	58.5	138.9	V
2.56950000 GHz	39.46	30.03	-31.96	37.12	84.38	47.26	140.3	168.5	V
3.42600000 GHz	47.17	31.06	-31.64	46.20	84.38	38.18	291.1	117.7	V
4.28250000 GHz	37.24	32.30	-31.35	37.32	84.38	47.06	37.0	154.3	V
5.13900000 GHz	26.39	35.16	-30.94	29.48	84.38	54.90	145.8	150.1	V
5.99550000 GHz	25.39	35.90	-30.57	29.91	84.38	54.47	145.8	150.1	V
6.85200000 GHz	26.67	37.40	-30.60	32.67	84.38	51.71	145.8	150.1	V
7.70850000 GHz	27.37	37.77	-30.63	33.74	84.38	50.64	145.8	150.1	V
8.56500000 GHz	26.66	38.11	-30.69	33.70	84.38	50.68	145.8	150.1	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

- The Table of Radiated Spurious Emissions, P25- HDQPSK, Highend; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:44:06 PM, Friday, April 10, 2015

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.72398750 GHz	55.33	26.22	-32.13	48.83	84.38	35.55	65.5	124.4	H
2.58598125 GHz	39.97	30.00	-31.96	37.58	84.38	46.80	146.8	161.3	H
3.44797500 GHz	45.71	31.03	-31.63	44.51	84.38	39.87	169.3	100.5	H
4.30996875 GHz	38.34	32.33	-31.33	38.42	84.38	45.96	205.8	110.6	H
5.17196250 GHz	25.59	34.97	-30.93	28.73	84.38	55.65	60.0	100.8	H
6.03395625 GHz	25.39	36.14	-30.57	29.86	84.38	54.52	60.0	100.8	H
6.89595000 GHz	26.06	37.48	-30.59	32.02	84.38	52.36	60.0	100.8	H
7.75794375 GHz	26.73	37.80	-30.63	33.15	84.38	51.23	60.0	100.8	H
8.61993750 GHz	26.13	37.95	-30.66	33.19	84.38	51.19	60.0	100.8	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:44:06 PM, Friday, April 10, 2015

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.72398750 GHz	50.69	26.16	-32.13	44.23	84.38	40.15	60.3	117.5	V
2.58598125 GHz	37.92	30.03	-31.96	35.57	84.38	48.81	231.0	100.3	V
3.44797500 GHz	44.84	31.02	-31.63	43.76	84.38	40.62	330.4	134.5	V
4.30996875 GHz	39.95	32.34	-31.33	40.06	84.38	44.32	77.7	131.1	V
5.17196250 GHz	24.28	35.12	-30.93	27.43	84.38	56.95	330.0	150.1	V
6.03395625 GHz	25.90	35.90	-30.57	30.46	84.38	53.92	330.0	150.1	V
6.89595000 GHz	27.06	37.43	-30.59	33.13	84.38	51.25	330.0	150.1	V
7.75794375 GHz	26.70	37.88	-30.63	33.18	84.38	51.20	330.0	150.1	V
8.61993750 GHz	27.07	38.05	-30.66	34.14	84.38	50.24	330.0	150.1	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

- The Table of Radiated Spurious Emissions, P25- CQPSK, Lowend; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:40:59 PM, Friday, April 10, 2015

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.70200625 GHz	54.99	26.14	-32.14	48.38	84.38	36.00	21.7	130.4	H
2.55300937 GHz	41.11	30.02	-31.97	38.73	84.38	45.65	360.0	100.5	H
3.40401250 GHz	41.44	31.09	-31.65	40.53	84.38	43.85	5.2	204.6	H
4.25500156 GHz	38.01	32.30	-31.37	38.00	84.38	46.38	60.3	128.5	H
5.10600187 GHz	21.14	35.10	-30.95	24.15	84.38	60.23	304.8	100.0	H
5.95702187 GHz	20.35	36.01	-30.59	24.67	84.38	59.71	304.8	100.0	H
6.80802500 GHz	20.79	37.43	-30.60	26.62	84.38	57.76	304.8	100.0	H
7.65902812 GHz	21.46	37.57	-30.64	27.64	84.38	56.74	304.8	100.0	H
8.51003125 GHz	21.09	38.09	-30.72	28.14	84.38	56.24	304.8	100.0	H
Project #: 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:40:59 PM, Friday, April 10, 2015

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.70200625 GHz	45.03	26.10	-32.14	38.42	84.38	45.96	150.6	202.4	V
2.55300937 GHz	35.71	30.02	-31.97	33.37	84.38	51.01	140.5	199.5	V
3.40401250 GHz	48.83	31.09	-31.65	47.96	84.38	36.42	300.3	138.2	V
4.25500156 GHz	35.06	32.31	-31.37	35.16	84.38	49.22	63.9	240.6	V
5.10600187 GHz	23.09	35.21	-30.95	26.11	84.38	58.27	60.6	150.0	V
5.95702187 GHz	20.45	35.76	-30.59	24.79	84.38	59.59	60.6	150.0	V
6.80802500 GHz	21.11	37.37	-30.60	27.05	84.38	57.33	60.6	150.0	V
7.65902812 GHz	21.47	37.65	-30.64	27.78	84.38	56.60	60.6	150.0	V
8.51003125 GHz	20.57	38.20	-30.72	27.60	84.38	56.78	60.6	150.0	V
Project #: 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

- The Table of Radiated Spurious Emissions; P25- CQPSK, Middle; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:41:34 PM, Friday, April 10, 2015

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.71300000 GHz	55.73	26.18	-32.13	49.18	84.38	35.20	93.6	100.3	H
2.56950000 GHz	46.01	30.01	-31.96	43.63	84.38	40.75	145.8	100.7	H
3.42600000 GHz	49.32	31.06	-31.64	48.26	84.38	36.12	263.5	136.6	H
4.28250000 GHz	38.10	32.29	-31.35	38.13	84.38	46.25	352.9	155.7	H
5.13900000 GHz	21.31	35.04	-30.94	24.41	84.38	59.97	17.9	100.0	H
5.99550000 GHz	21.07	36.15	-30.57	25.49	84.38	58.89	17.9	100.0	H
6.85200000 GHz	22.55	37.45	-30.60	28.44	84.38	55.94	17.9	100.0	H
7.70850000 GHz	22.00	37.68	-30.63	28.30	84.38	56.08	17.9	100.0	H
8.56500000 GHz	21.98	38.01	-30.69	29.04	84.38	55.34	17.9	100.0	H
Project #: 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:41:34 PM, Friday, April 10, 2015

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.71300000 GHz	46.28	26.13	-32.13	39.74	84.38	44.64	55.4	200.3	V
2.56950000 GHz	39.42	30.03	-31.96	37.08	84.38	47.30	330.1	115.6	V
3.42600000 GHz	50.34	31.06	-31.64	49.37	84.38	35.01	55.4	105.2	V
4.28250000 GHz	36.23	32.30	-31.35	36.31	84.38	48.07	57.6	157.8	V
5.13900000 GHz	22.21	35.16	-30.94	25.30	84.38	59.08	60.3	150.0	V
5.99550000 GHz	21.02	35.90	-30.57	25.54	84.38	58.84	60.3	150.0	V
6.85200000 GHz	21.28	37.40	-30.60	27.28	84.38	57.10	60.3	150.0	V
7.70850000 GHz	22.28	37.77	-30.63	28.65	84.38	55.73	60.3	150.0	V
8.56500000 GHz	21.62	38.11	-30.69	28.66	84.38	55.72	60.3	150.0	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

- The Table of Radiated Spurious Emissions, P25- CQPSK, Highend; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:40:06 PM, Friday, April 10, 2015

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.72399375 GHz	60.12	26.22	-32.13	53.62	84.38	30.76	63.5	180.0	H
2.58599063 GHz	43.35	30.00	-31.96	40.96	84.38	43.42	330.2	100.2	H
3.44798750 GHz	53.07	31.03	-31.63	51.87	84.38	32.51	0.3	133.4	H
4.30998438 GHz	34.82	32.33	-31.33	34.90	84.38	49.48	350.9	180.4	H
5.17198125 GHz	20.72	34.97	-30.93	23.86	84.38	60.52	0.2	100.4	H
6.03397813 GHz	20.51	36.14	-30.57	24.98	84.38	59.40	0.2	100.4	H
6.89597500 GHz	20.86	37.48	-30.59	26.82	84.38	57.56	0.2	100.4	H
7.75797188 GHz	21.71	37.80	-30.63	28.13	84.38	56.25	0.2	100.4	H
8.61996875 GHz	21.13	37.95	-30.66	28.19	84.38	56.19	0.2	100.4	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:40:06 PM, Friday, April 10, 2015

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.72399375 GHz	51.93	26.16	-32.13	45.47	84.38	38.91	57.0	198.5	V
2.58599063 GHz	37.82	30.03	-31.96	35.47	84.38	48.91	72.4	198.3	V
3.44798750 GHz	50.10	31.02	-31.63	49.02	84.38	35.36	305.2	165.5	V
4.30998438 GHz	35.02	32.34	-31.33	35.13	84.38	49.25	235.6	100.3	V
5.17198125 GHz	21.55	35.12	-30.93	24.70	84.38	59.68	48.6	150.0	V
6.03397813 GHz	20.86	35.90	-30.57	25.42	84.38	58.96	48.6	150.0	V
6.89597500 GHz	22.10	37.43	-30.59	28.17	84.38	56.21	48.6	150.0	V
7.75797188 GHz	22.02	37.88	-30.63	28.50	84.38	55.88	48.6	150.0	V
8.61996875 GHz	21.13	38.05	-30.66	28.20	84.38	56.18	48.6	150.0	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

- The Table of Radiated Spurious Emissions, FM, Lowend; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:36:11 PM, Friday, April 10, 2015

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.70202500 GHz	50.37	26.14	-32.14	43.76	84.38	40.62	26.7	125.7	H
2.55303750 GHz	38.32	30.02	-31.97	35.94	84.38	48.44	150.5	115.6	H
3.40405000 GHz	38.79	31.09	-31.65	37.88	84.38	46.50	272.0	120.2	H
4.25506250 GHz	37.39	32.30	-31.37	37.38	84.38	47.00	78.4	111.2	H
5.10607500 GHz	26.37	35.10	-30.95	29.38	84.38	55.00	45.8	120.2	H
5.95708750 GHz	26.18	36.01	-30.59	30.50	84.38	53.88	45.8	120.2	H
6.80810000 GHz	26.66	37.43	-30.60	32.49	84.38	51.89	45.8	120.2	H
7.65911250 GHz	27.29	37.57	-30.64	33.47	84.38	50.91	45.8	120.2	H
8.51012500 GHz	26.17	38.08	-30.72	33.22	84.38	51.16	45.8	120.2	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:36:11 PM, Friday, April 10, 2015

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.70202500 GHz	40.89	26.10	-32.14	34.28	84.38	50.10	43.5	224.6	V
2.55303750 GHz	35.56	30.02	-31.97	33.22	84.38	51.16	145.8	172.8	V
3.40405000 GHz	37.11	31.09	-31.65	36.24	84.38	48.14	303.4	103.2	V
4.25506250 GHz	35.37	32.31	-31.37	35.47	84.38	48.91	64.8	235.8	V
5.10607500 GHz	26.29	35.21	-30.95	29.31	84.38	55.07	30.1	150.0	V
5.95708750 GHz	26.27	35.76	-30.59	30.61	84.38	53.77	30.1	150.0	V
6.80810000 GHz	25.70	37.37	-30.60	31.64	84.38	52.74	30.1	150.0	V
7.65911250 GHz	26.87	37.65	-30.64	33.18	84.38	51.20	30.1	150.0	V
8.51012500 GHz	26.30	38.20	-30.72	33.33	84.38	51.05	30.1	150.0	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

- The Table of Radiated Spurious Emissions; FM, Middle; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB
 Contact: Sean Jung
 Company: Dali Wireless Inc.

04:36:52 PM, Friday, April 10, 2015

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.71300000 GHz	49.81	26.18	-32.13	43.26	84.38	41.12	94.8	100.7	H
2.56950000 GHz	28.81	30.01	-31.96	26.43	84.38	57.95	154.5	113.1	H
3.42600000 GHz	41.10	31.06	-31.64	40.04	84.38	44.34	171.4	160.3	H
4.28250000 GHz	35.81	32.29	-31.35	35.84	84.38	48.54	355.8	107.4	H
5.13900000 GHz	26.02	35.04	-30.94	29.12	84.38	55.26	95.9	100.0	H
5.99550000 GHz	25.73	36.15	-30.57	30.15	84.38	54.23	95.9	100.0	H
6.85200000 GHz	26.71	37.45	-30.60	32.60	84.38	51.78	95.9	100.0	H
7.70850000 GHz	26.31	37.68	-30.63	32.61	84.38	51.77	95.9	100.0	H
8.56500000 GHz	26.28	38.01	-30.69	33.34	84.38	51.04	95.9	100.0	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB

04:36:52 PM, Friday, April 10, 2015

Contact: Sean Jung

Company: Dali Wireless Inc.

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.71300000 GHz	42.10	26.13	-32.13	35.56	84.38	48.82	53.5	216.6	V
2.56950000 GHz	35.94	30.03	-31.96	33.60	84.38	50.78	334.7	109.7	V
3.42600000 GHz	41.82	31.06	-31.64	40.84	84.38	43.53	290.8	121.1	V
4.28250000 GHz	34.79	32.30	-31.35	34.87	84.38	49.51	62.5	229.0	V
5.13900000 GHz	26.52	35.16	-30.94	29.61	84.38	54.77	151.4	150.0	V
5.99550000 GHz	26.26	35.90	-30.57	30.78	84.38	53.60	151.4	150.0	V
6.85200000 GHz	27.01	37.40	-30.60	33.01	84.38	51.37	151.4	150.0	V
7.70850000 GHz	27.31	37.77	-30.63	33.68	84.38	50.70	151.4	150.0	V
8.56500000 GHz	27.00	38.11	-30.69	34.04	84.38	50.34	151.4	150.0	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

- The Table of Radiated Spurious Emissions, FM, Highend; 1 to 10GHz, SAS-571 was used.

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Horizontal

Operator: Jeremy Lee

Model #: t30-SN-1NB

04:34:58 PM, Friday, April 10, 2015

Contact: Sean Jung

Company: Dali Wireless Inc.

Frequency Hz	Measured dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.72397500 GHz	52.06	26.22	-32.13	45.56	84.38	38.82	75.3	100.1	H
2.58596250 GHz	38.04	30.00	-31.96	35.65	84.38	48.73	329.5	110.1	H
3.44795000 GHz	40.13	31.03	-31.63	38.93	84.38	45.45	0.1	110.2	H
4.30993750 GHz	38.58	32.33	-31.33	38.66	84.38	45.72	12.4	130.3	H
5.17192500 GHz	25.98	34.97	-30.93	29.12	84.38	55.26	90.0	100.1	H
6.03391250 GHz	25.52	36.14	-30.57	29.99	84.38	54.39	90.0	100.1	H
6.89590000 GHz	26.52	37.48	-30.59	32.48	84.38	51.90	90.0	100.1	H
7.75788750 GHz	27.17	37.80	-30.63	33.59	84.38	50.79	90.0	100.1	H
8.61987500 GHz	26.56	37.95	-30.66	33.62	84.38	50.76	90.0	100.1	H
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

LabTest Certification Inc.
 Radiated Spurious-Harmonics
 FCC 90.210 & 219, 3 meters, Vertical

Operator: Jeremy Lee

Model #: t30-SN-1NB

04:34:58 PM, Friday, April 10, 2015

Contact: Sean Jung

Company: Dali Wireless Inc.

Frequency Hz	Measured_PK dBuV	AntFactor dB/m	PathLoss dB	Measured_ERP dBuV/m	Limit_ERP dBuV/m	Margin_ERP dB	T/T Degree	Tower cm	POL
1.72397500 GHz	49.26	26.16	-32.13	42.80	84.38	41.58	46.8	108.8	V
2.58596250 GHz	34.81	30.03	-31.96	32.46	84.38	51.92	86.2	107.7	V
3.44795000 GHz	41.39	31.02	-31.63	40.31	84.38	44.07	289.7	105.5	V
4.30993750 GHz	34.42	32.34	-31.33	34.53	84.38	49.85	59.2	111.2	V
5.17192500 GHz	25.91	35.12	-30.93	29.06	84.38	55.32	87.3	110.1	V
6.03391250 GHz	25.49	35.90	-30.57	30.05	84.38	54.33	87.3	110.1	V
6.89590000 GHz	26.36	37.43	-30.59	32.43	84.38	51.95	87.3	110.1	V
7.75788750 GHz	26.58	37.88	-30.63	33.06	84.38	51.32	87.3	110.1	V
8.61987500 GHz	26.10	38.05	-30.66	33.17	84.38	51.21	87.3	110.1	V
Project # : 12675, Sample #: 3506									
Temp.: 20.1 C, Hum.: 42.0 %									
Barometer Pres.: 101.8 kPa									

Prepared by: LabTest Certification Inc.
 Date Issued: April 09, 2015
 Project No: 12675

Client: Dali Wireless Inc.
 Report No.: 12675-1E
 Revision No.: 0

APPENDIX A: Test Equipment Used

ID No.	Description	Manufacturer	Model	Serial No.	Calibration Date	Calibration Due Date	Calibration Certificate No:	Calibration Laboratory
059	AC Power Source	California Instrument	5000i	HK51870	N/A	N/A	N/A	N/A
227-3	Horn Antenna	A.H. Systems	SAS-571	936	31-Jul-2014	31-Jul-2016	1407300211	Liberty Labs
241	Active Loop Antenna	AL-130	Com-Power	17075	09-Oct-2013	09-Oct-2015	1310070101	Liberty Labs
266	Humidity/ Temperature Logger	Onset HOBO	U14-001	2436907	23-Jan-2014	23-Jan-2016	890824060	Techmaster
272	EMC Analyzer	Agilent	E7405A	US41110263	13-May-2014	13-May-2015	1-5983694499-1	Agilent
273	RF Preamplifier	Agilent	8449B	3008A02264	07-Oct-2014	07-Oct-2015	35231	Tradeport
371	EMC Broadband Antenna	Sunol	JB1	A022012	17-Mar-2014	17-Mar-2016	1403130381	Liberty Labs
374	EMC Shielded Enclosure	USC	USC-26	111811	N/A	N/A	N/A	N/A
516	Pre-Amplifier	Agilent	AT8447D	2944A10969	N/A	N/A	N/A	N/A

Prepared by: LabTest Certification Inc.
Date Issued: April 09, 2015
Project No: 12675

Client: Dali Wireless Inc.
Report No.: 12675-1E
Revision No.: 0

APPENDIX B: EUT photos

- EUT: Bottom View



APPENDIX C: Test setup photos

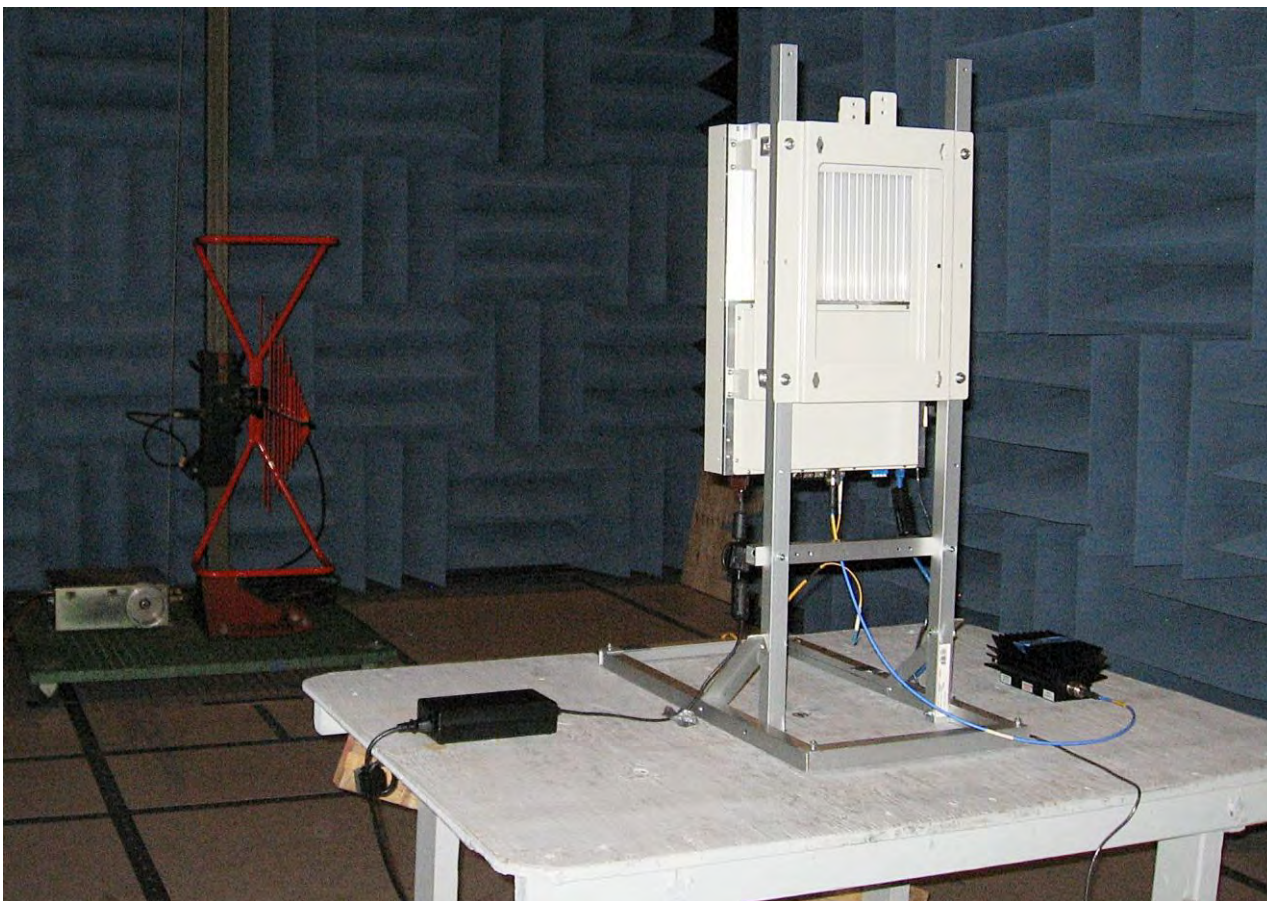
- Table Setup for Measurement



Prepared by: LabTest Certification Inc.
Date Issued: April 09, 2015
Project No: 12675

Client: Dali Wireless Inc.
Report No.: 12675-1E
Revision No.: 0

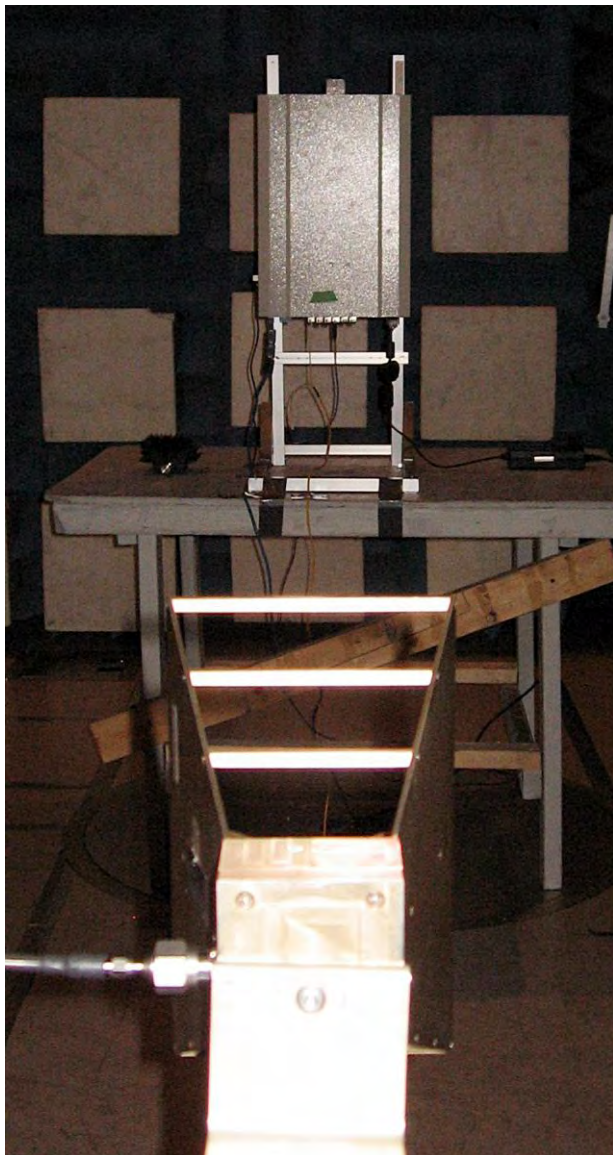
- Test configuration for Radiated Emissions under 1GHz



Prepared by: LabTest Certification Inc.
Date Issued: April 09, 2015
Project No: 12675

Client: Dali Wireless Inc.
Report No.: 12675-1E
Revision No.: 0

- Test configuration for Radiated Emissions_Harmonics over 1GHz



END OF REPORT