RADIO TEST REPORT

Product	:	Cellular and Battery Backup
Model Name	:	LBB1001
FCC ID	:	2APLE18300418
Test Regulation	:	FCC 47 CFR Part 24, Subpart E
Received Date	:	2022/3/31
Test Date	:	2022/4/6 ~ 2022/4/12 & 2022/6/24 ~ 2022/6/30
Issued Date	:	2022/7/4
Applicant	:	Arlo Technologies Inc 2200 Faraday Avenue, Suite 150, Carlsbad, CA 92008, USA
Issued By	:	Underwriters Laboratories Taiwan Co., Ltd. Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Testing Laboratory
3398

REVISION HISTORY

Original Test Report No.: 4790218737-US-R0-V0

Rev.	Test report No.	Date	Page revised	Contents
Original	4790218737-US-R0-V0	2022/7/4	-	Initial issue

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1. Attestation of Test Results

APPLICANT:	Arlo Technologies Inc 2200 Faraday Avenue, Suite 150, Carlsbad, CA 92008, USA
MANUFACTURER:	Funing Precision Component Co., Ltd. Lot B, Que Vo Industrial Zone, Van Duong Ward, Bac Ninh City, Bac Ninh Province, Vietnam
EUT DESCRIPTION:	Cellular and Battery Backup
BRAND:	Arlo
MODEL:	LBB1001
SAMPLE STAGE:	Engineering Verification Test sample
DATE of TESTED:	2022/4/6 ~ 2022/4/12 & 2022/6/24 ~ 2022/6/30

APPLICABLE STANDARDS	
STANDARD	**Test Results**
FCC 47 CFR PART 24	PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:

Cindy Hsin Date : 2022/7/4
Project Handler

Approved By:

Kent Liu Date : 2022/7/4
Senior Laboratory Engineer

2. Summary of Test Results

LTE Band 2		
FCC Clause	**Test Items**	**Result**
§ 2.1046 § 24.232	RF Output Power	PASS
§ 24.232 (d)	Peak-to-Average Power Ratio	Note 1
§ 2.1049 § 24.238 (b)	Occupied Bandwidth	Note 1
§ 2.1055 § 24.235	Frequency Stability	Note 1
§ 24.238 (a)	Band Edge Measurements	Note 1
§ 2.1051 § 24.238	Spurious Emissions at Antenna Terminal	Note 1
§ 2.1053 § 24.238	Radiated Spurious Emission	PASS

Note:
1. This report is a supplementary report, RF module (FCC ID: XMR2020BG95M2) installed to the EUT, the module RF conducted port test results will be submitted as a part of the report for device certification, for more details please refer to declaration letter exhibit.

3. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2, KDB 971168 D01 Power Meas License Digital Systems v03r01, ANSI C63.26-2015 and ANSI/TIA-603-E.

4. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.
Address	Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398.

5. Measurement Uncertainty

For statement of conformity, accuracy method (Section 8.2.4 and 8.2.5 of ISO Guide 98-4) was applied as decision rule for measurement in this test report.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor k=2.

Measurement	Frequency	Uncertainty
Spurious Emissions at Antenna Terminal	9 kHz - 40GHz	±1.9 dB
Radiated Spurious Emissions up to 1 GHz	30MHz ~ 1000MHz	±5.0 dB
Radiated Spurious Emissions above 1 GHz	1GHz ~ 40GHz	±4.6 dB
RF power, conducted	1GHz ~ 18GHz	±1.1 dB
RF power, radiated	1GHz ~ 18GHz	±4.8 dB
Occupied Bandwidth	30MHz ~ 40GHz	±0.12 %
Frequency Stability	30MHz ~ 40GHz	±0.12 %

6. Equipment under Test

6.1. Description of EUT

Product	Cellular and Battery Backup
Brand Name	Arlo
Model Name	LBB1001
Normal Voltage	5Vdc From Host 3.6Vdc From Battery
S/N	ABBY227GA00AC
Sample ID	Conducted Test: 4835375 Radiated Test: 4835377

Note :

1. This report was issued based on the re-used report with module report number R1907A0448-R2V2. The RF module of EUT is the same as the FCC ID: XMR2020BG95M2. Therefore, only the output power and worst case of the emission was performed and recorded in this report.

2. The EUT contains following accessory devices:

Product	Brand	Model	Description	P/N
Battery	Arlo	A-15	3.6Vdc,3250mAh	308-50033-01
Battery	Arlo	A-15	3.6Vdc,3250mAh	308-50036-01

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual.

6.2. Technical Information

Frequency Bands	**■ LTE Band 2**	1850 MHz to 1910 MHz (Uplink) 1930 MHz to 1990 MHz (Downlink)
Modulation Mode	QPSK / 16QAM	

6.3. Emission Designator

Frequency Bands	**■ LTE Band 2**	**BW 1.4 MHz**	QPSK	1M11G7D
			16QAM	943KW7D
		BW 3 MHz	QPSK	1M11G7D
			16QAM	950KW7D
		BW 5 MHz	QPSK	1M11G7D
			16QAM	954KW7D
		BW 10 MHz	QPSK	1M12G7D
			16QAM	961KW7D
		BW 15 MHz	QPSK	1M13G7D
			16QAM	964KW7D
		BW 20 MHz	QPSK	1M13G7D
			16QAM	967KW7D

Note: This data refers to the original module report.

6.4. Test Condition

Test Item	Test Site No.	Environmental Condition	Input Power	Test Date	Tested by
Antenna Port Conducted Measurement	SR4	23~26℃/ 55~65%RH	5Vdc	2022/04/06~ 2022/04/12	Mike Cai
Radiated Spurious Emission	966-2	23~26℃/ 55~65%RH	5Vdc	2022/04/06~ 2022/04/12 & 2022/6/24 ~ 2022/6/30	Mike Cai

FCC Test Firm Registration Number: 498077

6.5. Description of Available Antennas

Band	Antenna Type	Antenna Gain(dBi)
LTE Band 2	PIFA	4.30

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual.

6.6. Test Mode Applicability and Tested Channel Detail

- The EUT has two power source types: 3.6Vdc from battery and 5Vdc from Host, above two types were pre-tested, the worst case was found in the 5Vdc. Therefore only the test data of the 5Vdc was recorded in this report.
- The fundamental of the EUT was investigated in three orthogonal axes X-Y/Y-Z/X-Z, it was determined that X-Y plane was worst-case. Therefore, all final radiated testing was performed with the EUT in X-Y plane.
- The modulation and bandwidth are similar for QPSK mode and 16-QAM mode, the worst case was found in QPSK mode, therefore for radiated emission investigated QPSK mode to representative in test report.
- The LTE mode 1RB has the highest power, the radiated emission test is all using this mode for testing. (Except the highest BW add Full RB tested)
- For below 1 GHz radiated emission have performed all modes of operation were investigated and the worst-case channel for emissions are reported.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	MODULATION	MODE	Test Axis
RF Power Output	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
Radiated Emission	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB	X-Y Plane
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB	X-Y Plane
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB & Full RB	X-Y Plane

7. Test Equipment

Test Equipment List					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Expired date**
Radiated Spurious Emission					
Spectrum Analyzer	Keysight	N9010A	MY56070827	2021/11/9	2022/11/8
EMI Test Receiver	Rohde & Schwarz	ESR7	101754	2021/12/10	2022/12/9
Loop Antenna	ETS lindgren	6502	00213440	2021/12/23	2022/12/22
Trilog-Broadband Antenna with 5dB Attenuator	Schwarzbeck	VULB 9168 & N-6-05	774 & AT-N0538	2022/2/8	2023/2/7
Trilog-Broadband Antenna with 5dB Attenuator	Schwarzbeck	VULB 9168 & N-6-05	9168-774 & AT-N0538	2022/2/8	2023/2/7
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01690	2021/12/13	2022/12/12
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01686	2021/12/13	2022/12/12
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	781	2021/12/17	2022/12/16
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	759	2021/12/1	2022/11/30
Preamplifier (30-1000 MHz)	EMCI	EMC330E	980405	2021/6/8	2022/6/7
				2022/6/7	2023/6/6
Preamplifier (1-18 GHz)	EMCI	EMC051835BE	980406	2022/2/16	2023/2/15
Preamplifier (18-40GHz)	EMCI	EMC184040SEE	980426	2021/5/19	2022/5/18
				2022/5/17	2023/5/16
Signal Generator	Keysight	N5173B	MY53271122	2022/1/18	2023/1/17
Cables	Hanyitek	K1K50-UP0264-K1K50-2500	170214-4 & 170425-2	2021/12/3	2022/12/2
Cables	Hanyitek	K1K50-UP0264-K1K50-2500	170214-1 & 170214-2	2021/12/3	2022/12/2
Radio Communication Analyzer	Rohde & Schwarz	CMW500	161064	2021/11/21	2022/11/20

Test Equipment List					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date**	**Expired date**
Antenna Port Conducted Measurement					
Spectrum Analyzer	Keysight	N9010A	MY56070834	2021/10/29	2022/10/28
Pulse Power Sensor	Anritsu	MA2411B	1531202	2021/12/22	2022/12/21
Power Meter	Anritsu	ML2495A	1645002	2021/12/22	2022/12/21
Temperature &Humidity Test Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA1701-010	2022/3/11	2023/3/10
Radio Communication Analyzer	Rohde & Schwarz	CMW500	161064	2021/11/21	2022/11/20

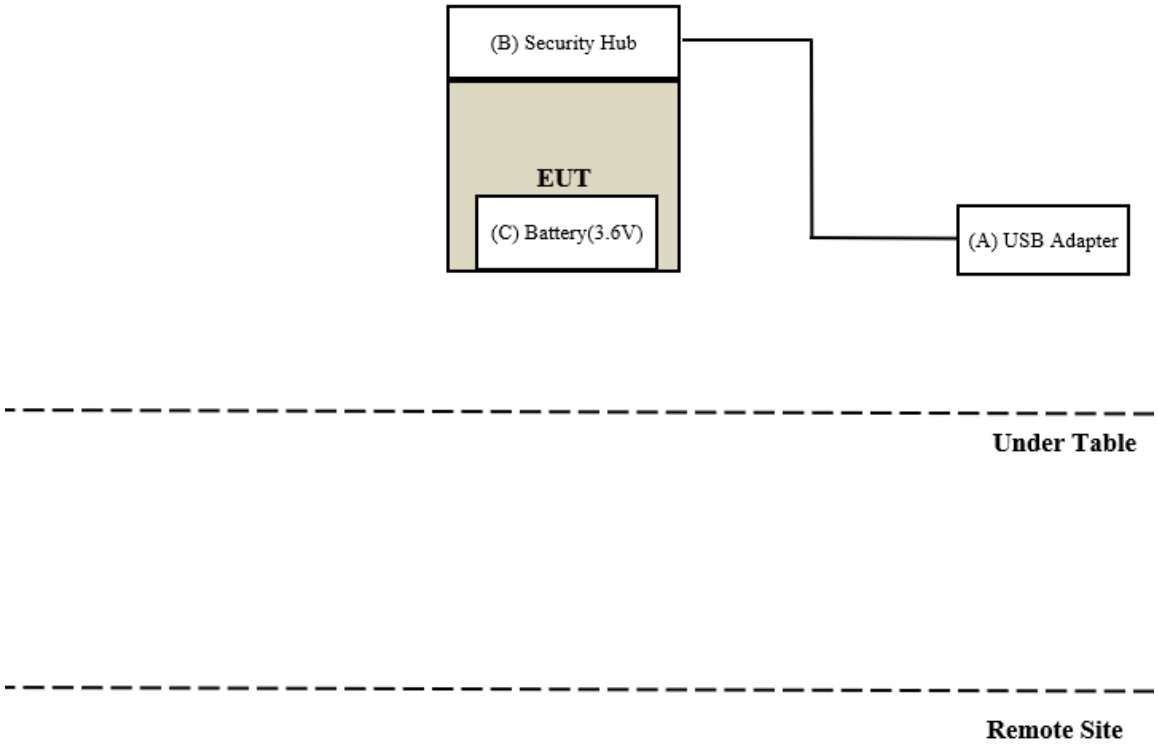
UL Software		
Description	**Name**	**Version**
Radiated measurement	e3	6.191211 (V6)
Conducted measurement	RF Conducted Test Tools	ver 2.4.0.620b

8. Description of Test Setup

Support Equipment

ID	Equipment	Brand Name	Model Name	S/N	Remark
A	USB Adapter	Arlo	AD2158	NA	Provided by Client
B	Security Hub	Arlo	SH1001	AB5U217LA00D0	Provided by Client
C	Battery	Arlo	A-15	ABK117AD000D6	Provided by Client

Setup Diagram for Test



9. Test Results

9.1. RF Output Power

Requirements

Mobile / Portable station are limited to 2 watts e.i.r.p.

Test procedure

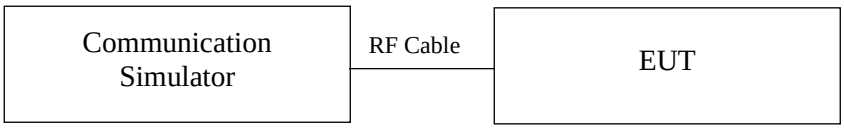
Conducted Power Measurement:

The EUT was set up for the maximum power with WCDMA / LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and difference RB size/ RB offset for difference bandwidth record the power level shown on power meter.

EIRP / ERP Measurement:

a. EIRP = Conducted Output power level + Antenna gain.
b. ERP power can be calculated form EIRP power by subtracting the gain of dipole, ERP power = EIPR power - 2.15dBi.
c. ERP = Conducted Output power level + Antenna gain (dBi) - Isotropically Factor (2.15dB).

Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

Test Results

Band 2

Bandwidth (MHz)	Channel	Frequency (MHz)	Index	RB	Conducted Power (dBm)		EIRP (dBm)	
					QPSK	16QAM	QPSK	16QAM
1.4M	18607	1850.7	0	1#0	19.96	18.84	24.26	23.14
			0	6#0	17.97	17.92	22.27	22.22
	18900	1880	0	1#0	19.95	19.21	24.25	23.51
			0	6#0	18.1	17.97	22.4	22.27
	19193	1909.3	0	1#5	19.84	18.94	24.14	23.24
			0	6#0	17.79	17.89	22.09	22.19
3M	18615	1851.5	0	1#0	20.12	18.86	24.42	23.16
			0	6#0	17.94	18.16	22.24	22.46
	18900	1880	0	1#0	20.14	18.74	24.44	23.04
			0	6#0	17.84	18.15	22.14	22.45
	19185	1908.5	1	1#5	19.79	18.43	24.09	22.73
			1	6#0	17.69	17.98	21.99	22.28
5M	18625	1852.5	0	1#0	20.09	19.76	24.39	24.06
			0	6#0	18.81	18.93	23.11	23.23
	18900	1880	0	1#0	20.1	19.76	24.4	24.06
			0	6#0	18.98	19.09	23.28	23.39
	19175	1907.5	0	1#5	19.55	19.5	23.85	23.8
			3	6#0	18.75	18.86	23.05	23.16
10M	18650	1855	3	1#0	20.03	19.59	24.33	23.89
			0	4#0	20.09	20.23	24.39	24.53
	18900	1880	0	1#0	19.78	20.28	24.08	24.58
			0	4#0	19.78	20.12	24.08	24.42
	19150	1905	4	1#5	19.71	19.43	24.01	23.73
			7	4#2	19.72	19.95	24.02	24.25
15M	18675	1857.5	3	1#0	20.11	19.76	24.41	24.06
			0	6#0	19.75	19.48	24.05	23.78
	18900	1880	0	1#0	20.04	19.66	24.34	23.96
			0	6#0	19.75	19.97	24.05	24.27
	19125	1902.5	8	1#5	19.75	19.52	24.05	23.82
			11	6#0	19.76	19.9	24.06	24.2
20M	18700	1860	3	1#0	19.95	19.84	24.25	24.14
			0	6#0	19.91	20.03	24.21	24.33
	18900	1880	0	1#0	19.94	19.55	24.24	23.85
			0	6#0	19.76	20.02	24.06	24.32
	19100	1900	12	1#5	19.79	19.45	24.09	23.75
			15	6#0	19.77	19.99	24.07	24.29

9.2. Radiated Spurious Emission

Requirements

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit is equal to –13 dBm.

Test procedure

a. The power was measured with Spectrum Analyzer.

b. Substitution method is used for EIRP measurement. In the semi-anechoic chamber, EUT placed on the 0.8m/1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.

c. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = Read Value (dBμV/m) - Correction Factor @ 3m

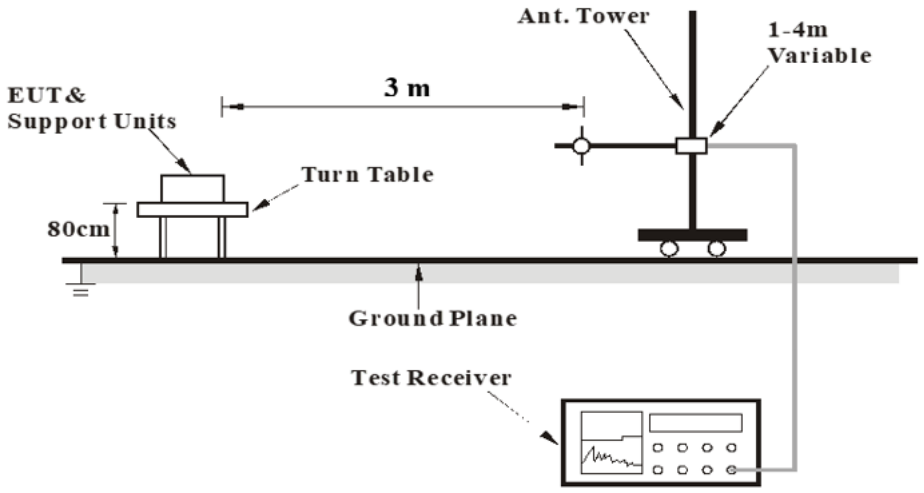
d. Correction Factor (dB) @ 3M = 20log(D) − 104.8; where D is the measurement distance @3m =-95.26dB

e. ERP power can be calculated form EIRP power by subtracting the gain of dipole, ERP power = EIRP power - 2.15dBi.

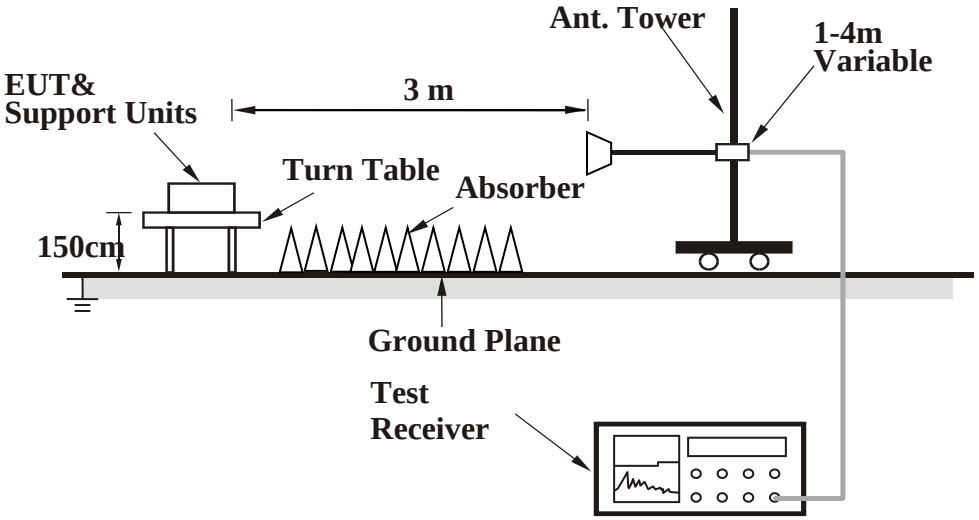
Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

Test Setup

<Frequency Range 30 MHz ~ 1 GHz >



<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations

Test Results

LTE Band 2

- Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier.
- The emission levels of other frequencies are very lower than the limit and not show in test report (inclusion 10 times harmonic).

EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1850.7		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3701.4	39.2	-95.26	-56.06	-13	-43.06
2	5552.1	40.09	-95.26	-55.17	-13	-42.17
3	7402.8	45.39	-95.26	-49.87	-13	-36.87
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3701.4	38.42	-95.26	-56.84	-13	-43.84
2	5552.1	39.06	-95.26	-56.20	-13	-43.20
3	7402.8	44.16	-95.26	-51.10	-13	-38.10

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1880		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3760	40.48	-95.26	-54.78	-13	-41.78
2	5640	41.84	-95.26	-53.42	-13	-40.42
3	7520	46.42	-95.26	-48.84	-13	-35.84
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3760	39.23	-95.26	-56.03	-13	-43.03
2	5640	41.03	-95.26	-54.23	-13	-41.23
3	7520	44.79	-95.26	-50.47	-13	-37.47

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1909.3		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3818.6	37.53	-95.26	-57.73	-13	-44.73
2	5727.9	38.16	-95.26	-57.10	-13	-44.10
3	7637.2	44.21	-95.26	-51.05	-13	-38.05
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3818.6	37.42	-95.26	-57.84	-13	-44.84
2	5727.9	37.89	-95.26	-57.37	-13	-44.37
3	7637.2	42.99	-95.26	-52.27	-13	-39.27

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	**Frequency Range**	Below 1GHz
Frequency (MHz)	1880		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	106.63	28.4	-95.26	-66.86	-13	-53.86
2	195.87	32.31	-95.26	-62.95	-13	-49.95
3	216.24	27.99	-95.26	-67.27	-13	-54.27
4	244.37	26.7	-95.26	-68.56	-13	-55.56
5	288.02	33.45	-95.26	-61.81	-13	-48.81
6	763.32	33.1	-95.26	-62.16	-13	-49.16
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	30	27.74	-95.26	-67.52	-13	-54.52
2	107.6	31.54	-95.26	-63.72	-13	-50.72
3	159.98	26.57	-95.26	-68.69	-13	-55.69
4	245.34	24.77	-95.26	-70.49	-13	-57.49
5	288.02	30.9	-95.26	-64.36	-13	-51.36
6	431.58	30.02	-95.26	-65.24	-13	-52.24

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1852.5		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3705	37.33	-95.26	-57.93	-13	-44.93
2	5557.5	39.95	-95.26	-55.31	-13	-42.31
3	7410	42.69	-95.26	-52.57	-13	-39.57
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3705	39.61	-95.26	-55.65	-13	-42.65
2	5557.5	38.98	-95.26	-56.28	-13	-43.28
3	7410	42.99	-95.26	-52.27	-13	-39.27

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1880		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3760	38.67	-95.26	-56.59	-13	-43.59
2	5640	41.56	-95.26	-53.70	-13	-40.70
3	7520	44.58	-95.26	-50.68	-13	-37.68
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3760	40.39	-95.26	-54.87	-13	-41.87
2	5640	40.7	-95.26	-54.56	-13	-41.56
3	7520	44.59	-95.26	-50.67	-13	-37.67

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1907.5		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3815	36.45	-95.26	-58.81	-13	-45.81
2	5722.5	38.01	-95.26	-57.25	-13	-44.25
3	7630	41.39	-95.26	-53.87	-13	-40.87
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3815	38.99	-95.26	-56.27	-13	-43.27
2	5722.5	38.25	-95.26	-57.01	-13	-44.01
3	7630	41.31	-95.26	-53.95	-13	-40.95

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	**Frequency Range**	Below 1GHz
Frequency (MHz)	1880		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	107.6	29.41	-95.26	-65.85	-13	-52.85
2	159.98	25.56	-95.26	-69.70	-13	-56.70
3	196.84	30.67	-95.26	-64.59	-13	-51.59
4	245.34	26.24	-95.26	-69.02	-13	-56.02
5	288.02	33.16	-95.26	-62.10	-13	-49.10
6	659.53	31.25	-95.26	-64.01	-13	-51.01
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	33.88	28.28	-95.26	-66.98	-13	-53.98
2	107.6	31.87	-95.26	-63.39	-13	-50.39
3	123.12	27.4	-95.26	-67.86	-13	-54.86
4	288.02	31.14	-95.26	-64.12	-13	-51.12
5	431.58	30.35	-95.26	-64.91	-13	-51.91
6	515.97	29.76	-95.26	-65.50	-13	-52.50

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / 1RB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1860		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3720	36.64	-95.26	-58.62	-13	-45.62
2	5580	40.34	-95.26	-54.92	-13	-41.92
3	7440	42.75	-95.26	-52.51	-13	-39.51
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3720	37.81	-95.26	-57.45	-13	-44.45
2	5580	39.85	-95.26	-55.41	-13	-42.41
3	7440	42.43	-95.26	-52.83	-13	-39.83

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / 1RB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1880		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3760	38.25	-95.26	-57.01	-13	-44.01
2	5640	42.1	-95.26	-53.16	-13	-40.16
3	7520	44.6	-95.26	-50.66	-13	-37.66
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3760	39.69	-95.26	-55.57	-13	-42.57
2	5640	41.46	-95.26	-53.80	-13	-40.80
3	7520	43.75	-95.26	-51.51	-13	-38.51

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / 1RB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1900		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3800	35.54	-95.26	-59.72	-13	-46.72
2	5700	38.81	-95.26	-56.45	-13	-43.45
3	7600	41.68	-95.26	-53.58	-13	-40.58
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3800	36.78	-95.26	-58.48	-13	-45.48
2	5700	38.11	-95.26	-57.15	-13	-44.15
3	7600	41.77	-95.26	-53.49	-13	-40.49

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / 1RB	**Frequency Range**	Below 1GHz
Frequency (MHz)	1880		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	106.63	28.91	-95.26	-66.35	-13	-53.35
2	177.44	25.24	-95.26	-70.02	-13	-57.02
3	195.87	31.98	-95.26	-63.28	-13	-50.28
4	243.4	26.69	-95.26	-68.57	-13	-55.57
5	288.02	33.15	-95.26	-62.11	-13	-49.11
6	335.55	26.87	-95.26	-68.39	-13	-55.39
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	107.6	31.64	-95.26	-63.62	-13	-50.62
2	125.06	25.39	-95.26	-69.87	-13	-56.87
3	159.98	25.3	-95.26	-69.96	-13	-56.96
4	245.34	26.43	-95.26	-68.83	-13	-55.83
5	288.02	31.95	-95.26	-63.31	-13	-50.31
6	431.58	30.32	-95.26	-64.94	-13	-51.94

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / FRB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1860		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3720	34.65	-95.26	-60.61	-13	-47.61
2	5580	38.78	-95.26	-56.48	-13	-43.48
3	7440	42.13	-95.26	-53.13	-13	-40.13
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3720	36.33	-95.26	-58.93	-13	-45.93
2	5580	39.2	-95.26	-56.06	-13	-43.06
3	7440	41.82	-95.26	-53.44	-13	-40.44

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / FRB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1880		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3760	37.19	-95.26	-58.07	-13	-45.07
2	5640	40.99	-95.26	-54.27	-13	-41.27
3	7520	43.93	-95.26	-51.33	-13	-38.33
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3760	38.68	-95.26	-56.58	-13	-43.58
2	5640	40.46	-95.26	-54.80	-13	-41.80
3	7520	43.25	-95.26	-52.01	-13	-39.01

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / FRB	**Frequency Range**	Above 1 GHz
Frequency (MHz)	1900		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3800	34.65	-95.26	-60.61	-13	-47.61
2	5700	37.67	-95.26	-57.59	-13	-44.59
3	7600	40.24	-95.26	-55.02	-13	-42.02
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μV/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	3800	36.28	-95.26	-58.98	-13	-45.98
2	5700	36.94	-95.26	-58.32	-13	-45.32
3	7600	40.39	-95.26	-54.87	-13	-41.87

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / FRB	**Frequency Range**	Below 1GHz
Frequency (MHz)	1880		

Horizontal						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	105.39	28.34	-95.26	-66.92	-13	-53.92
2	176.37	24.48	-95.26	-70.78	-13	-57.78
3	194.17	30.5	-95.26	-64.76	-13	-51.76
4	242.54	25.86	-95.26	-69.40	-13	-56.40
5	286.61	32.48	-95.26	-62.78	-13	-49.78
6	334.36	25.85	-95.26	-69.41	-13	-56.41
Vertical						
No.	**Freq. (MHz)**	**Reading (dB μ V/m)**	**Correction Factor (dB)**	**Emission Value (dBm)**	**Limit (dBm)**	**Margin (dB)**
1	106.16	30.17	-95.26	-65.09	-13	-52.09
2	123.2	24.42	-95.26	-70.84	-13	-57.84
3	158.9	23.43	-95.26	-71.83	-13	-58.83
4	243.61	25.48	-95.26	-69.78	-13	-56.78
5	286.26	30.61	-95.26	-64.65	-13	-51.65
6	429.89	29.61	-95.26	-65.65	-13	-52.65

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

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