

RF EXPOSURE REPORT

Report No.: SA160724W003

FCC ID: ZMOL816AM

Test Model: L816-AM

Received Date: Jul. 24, 2016

Test Date: Jul. 25, 2016 ~ Aug. 11, 2016

Issued Date: Aug. 12, 2016

Applicant: Fibocom Wireless Inc.

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TABLE OF CONTENTS

R	F EX	POSURE REPORT	1
R	ELE/	ASE CONTROL RECORD	3
1	CE	RTIFICATION	4
		NERAL INFORMATI	
	2.1	GENERAL DESCRIPTION OF EUT	5
3	RF	EXPOSURE	6
	3.1	LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)	6
	3.2	MPE CALCULATION FORMULA	6
	3.3	CLASSIFICATION	6
	3.4	CONDUCTED POWER	7
	3.5	CALCULATION RESULT OF MAXIMUM CONDUCTED POWER	16



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA160724W003	Original release	Aug. 12, 2016



1 Certificate of Conformity

Product: LTE module

Brand: Fibocom

Test Model: L816-AM

Sample Status: Identical Prototype

Applicant: Fibocom Wireless Inc.

Test Date: Jul. 25, 2016 ~ Aug. 11, 2016

Standards: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :	Jugisy	, Date:	Aug. 12, 2016	
	Yuqiang Yin / Engineer			
Approved by:	Biele	, Date:	Aug. 12, 2016	
	Bill Yao / Manager			



2 GENERAL INFORMATI

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LTE module				
		ibocom			
BRAND					
MODEL NAME	L816-AM	.816-AM			
POWER SUPPLY	3.8Vdc (host equ	.8Vdc (host equipment)			
OPERATING TEMPERATURE RANGE	-10 ~ 55°C				
MODULATION TECHNOLOGY	DSSS, OFDM				
	GPRS/EDGE	GMSK, 8PSK			
MODULATION TYPE	WCDMA	BPSK/QPSK			
	LTE	QPSK, 16QAM			
	GPRS/EDGE	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR PCS 1900)			
OPERATING	WCDMA 1852.4MHz ~ 1907.6MHz (FOR WCDMA 826.4MHz ~ 846.6MHz (FOR WCDMA V)				
FREQUENCY	LTE	1850.7MHz ~ 1909.3MHz (FOR LTE Band 2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band 4) 699.7MHz ~ 715.3MHz (FOR LTE Band 12)			
ANTENNA TYPE	External Antenna	а			
ANTENNA GAIN		S1900/WCDMA Band II/ LTE Band 2/ LTE Band 4 MS850/WCDMA Band V/ LTE Band 12			
HW VERSION	V1.0.0				
SW VERSION	L816_V1A.0D.01	1.01			
I/O PORTS	Refer to user's m	nanual			
CABLE SUPPLIED	N/A				

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



3 RF EXPOSURE

3.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)						
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE										
300-1500			F/1500	30						
1500-100,000			1.0	30						

F = Frequency in MHz

3.2 MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

a. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Module Approval**.

Report No.: SA160330W009 6 / 16 Report Format Version: 6.1.1



3.4 CONDUCTED POWER

GSM

Band	GSM850 GSM1900											
Channel	128	189	251	512	661	810						
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8						
	Maximum Burst-Averaged Output Power											
GPRS 8	32.07	32.14	32.23	29.23	29.24	29.36						
GPRS 10	29.42	29.43	29.49	26.79	26.76	26.88						
EDGE 8 (MCS1)	26.51	26.38	26.25	25.49	25.35	25.31						
EDGE 10 (MCS1)	23.98	23.84	23.75	23.00	22.87	22.80						
	Maximu	um Frame-A	veraged Out	put Power								
GPRS 8	23.07	23.14	23.23	20.23	20.24	20.36						
GPRS 10	23.42	23.43	23.49	20.79	20.76	20.88						
EDGE 8 (MCS1)	17.51	17.38	17.25	16.49	16.35	16.31						
EDGE 10 (MCS1)	17.98	17.84	17.75	17.00	16.87	16.80						

WCDMA

BAND		WCDMA II			WCDMA V	
CHANNEL	9262	9400	9538	4132	4182	4233
FREQUENCY (MHz)	1852.4	1880.0	1907.6	826.4	836.4	846.6
RMC 12.2K	22.84	22.86	22.91	22.74	23.00	22.94
HSPA						
HSDPA Subtest-1	21.46	21.48	21.53	21.36	21.62	21.56
HSDPA Subtest-2	21.44	21.46	21.51	21.34	21.60	21.54
HSDPA Subtest-3	20.94	20.96	21.01	20.84	21.10	21.04
HSDPA Subtest-4	20.89	20.91	20.96	20.79	21.05	20.99
HSUPA Subtest-1	21.76	21.78	21.83	21.66	21.92	21.86
HSUPA Subtest-2	19.78	19.80	19.85	19.68	19.94	19.88
HSUPA Subtest-3	20.87	20.89	20.94	20.77	21.03	20.97
HSUPA Subtest-4	19.81	19.83	19.88	19.71	19.97	19.91
HSUPA Subtest-5	21.81	21.83	21.88	21.71	21.97	21.91



				LTE Band 2			
BW	Modulation	RB	RB	Low CH 18607	Mid CH 18900	High CH 19193	3GPP MPR
DVV	Modulation	Size	Offset	Frequency 1850.7 MHz	Frequency 1880 MHz	Frequency 1909.3 MHz	(dB)
		1	0	23.24	23.31	23.44	0
		1	2	23.16	23.19	23.31	0
		1	5	23.05	23.15	23.12	0
	QPSK	3	0	23.23	23.30	23.43	0
		3	1	23.15	23.18	23.30	0
		3	3	23.04	23.14	23.11	0
4 4MU-		6	0	22.32	22.39	22.52	1
1.4MHz		1	0	22.63	22.66	22.70	1
		1	2	22.33	22.43	22.40	1
		1	5	22.10	22.17	22.30	1
	16QAM	3	0	22.61	22.64	22.68	1
		3	1	22.31	22.41	22.38	1
		3	3	22.08	22.15	22.28	1
		6	0	21.40	21.43	21.47	2
				LTE Band 2			
DW		RB	RB	Low CH 18615	Mid CH 18900	High CH 19185	3GPP
BW	Modulation	Size	Offset	Frequency 1851.5 MHz	Frequency 1880 MHz	Frequency 1908.5 MHz	MPR (dB)
		1	0	23.27	23.34	23.47	0
		1	7	23.19	23.22	23.34	0
		1	14	23.08	23.18	23.15	0
	QPSK	8	0	22.51	22.58	22.71	1
		8	3	22.33	22.36	22.48	1
		8	7	22.15	22.25	22.22	1
0 MIII-		15	0	22.35	22.42	22.55	1
3 MHz		1	0	22.66	22.69	22.73	1
		1	7	22.36	22.46	22.43	1
		1	14	22.13	22.20	22.33	1
	16QAM	8	0	21.57	21.60	21.64	2
		8	3	21.26	21.36	21.33	2
		8	7	21.23	21.30	21.43	2
		15	0	21.43	21.46	21.50	2



				LTE Band 2			
BW	W Modulation	RB	RB	Low CH 18625	Mid CH 18900	High CH 19175	3GPP MPR
DW	Wodulation	Size	Offset	Frequency 1852.5 MHz	Frequency 1880 MHz	Frequency 1907.5 MHz	(dB)
		1	0	23.30	23.37	23.50	0
		1	12	23.22	23.25	23.37	0
		1	24	23.11	23.21	23.18	0
	QPSK	12	0	22.54	22.61	22.74	1
		12	6	22.36	22.39	22.51	1
		12	13	22.18	22.28	22.25	1
5 M		25	0	22.38	22.45	22.58	1
5 MHz		1	0	22.69	22.72	22.76	1
		1	12	22.39	22.49	22.46	1
		1	24	22.16	22.23	22.36	1
	16QAM	12	0	21.60	21.63	21.67	2
		12	6	21.29	21.39	21.36	2
		12	13	21.26	21.33	21.46	2
		25	0	21.46	21.49	21.53	2
				LTE Band 2			
		RB	RB	Low CH 18650	Mid CH 18900	High CH 19150	3GPP
BW	Modulation	Size	Offset	Frequency 1855 MHz	Frequency 1880 MHz	Frequency 1905 MHz	MPR (dB)
		1	0	23.32	23.39	23.52	0
		1	24	23.24	23.27	23.39	0
		1	49	23.13	23.23	23.20	0
	QPSK	25	0	22.56	22.63	22.76	1
		25	12	22.38	22.41	22.53	1
		25	25	22.20	22.30	22.27	1
40.000		50	0	22.40	22.47	22.60	1
10 MHz		1	0	22.71	22.74	22.78	1
		1	24	22.41	22.51	22.48	1
		1	49	22.18	22.25	22.38	1
	16QAM	25	0	21.62	21.65	21.69	2
		25	12	21.31	21.41	21.38	2
		25	25	21.28	21.35	21.48	2
		50	0	21.48	21.51	21.55	2



				LTE Band 4			
DW.	Modulation	RB	RB	Low CH 19957	Mid CH 20175	High CH 20393	MPR
BW	Modulation	Size	Offset	Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz	WIPK
		1	0	23.05	23.30	23.07	0
		1	2	22.91	23.12	22.94	0
		1	5	22.81	23.01	22.75	0
	QPSK	3	0	23.03	23.28	23.05	0
		3	1	22.89	23.10	22.92	0
		3	3	22.79	22.99	22.73	0
4 45411-		6	0	21.85	22.10	21.87	1
1.4MHz		1	0	22.16	22.23	22.05	1
		1	2	21.88	22.08	21.82	1
	16QAM	1	5	21.77	22.02	21.79	1
		3	0	22.15	22.22	22.04	1
		3	1	21.87	22.07	21.81	1
		3	3	21.76	22.01	21.78	1
		6	0	21.07	21.14	20.96	2
			<u>I</u>	LTE Band 4	l	<u>I</u>	
		RB	RB	Low CH 19965	Mid CH 20175	High CH 20385	
BW	Modulation	Size	Offset	Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz	MPR
		1	0	23.06	23.31	23.08	0
		1	7	22.92	23.13	22.95	0
		1	14	22.82	23.02	22.76	0
	QPSK	8	0	21.94	22.19	21.96	1
		8	3	21.90	22.11	21.93	1
		8	7	21.83	22.03	21.77	1
0.8411-		15	0	21.86	22.11	21.88	1
3 MHz		1	0	22.17	22.24	22.06	1
		1	7	21.89	22.09	21.83	1
		1	14	21.78	22.03	21.80	1
	16QAM	8	0	21.17	21.24	21.06	2
		8	3	20.86	21.06	20.80	2
		8	7	20.80	21.05	20.82	2
		15	0	21.08	21.15	20.97	2



				LTE Band 4			
BW	Modulation	RB	RB	Low CH 19975	Mid CH 20175	High CH 20375	MPR
DVV	Wiodulation	Size	Offset	Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz	WIFK
		1	0	23.09	23.34	23.11	0
		1	12	22.95	23.16	22.98	0
		1	24	22.85	23.05	22.79	0
	QPSK	12	0	21.97	22.22	21.99	1
		12	6	21.93	22.14	21.96	1
		12	13	21.86	22.06	21.80	1
5 MII-		25	0	21.89	22.14	21.91	1
5 MHz		1	0	22.20	22.27	22.09	1
		1	12	21.92	22.12	21.86	1
		1	24	21.81	22.06	21.83	1
	16QAM	12	0	21.20	21.27	21.09	2
		12	6	20.89	21.09	20.83	2
		12	13	20.83	21.08	20.85	2
		25	0	21.11	21.18	21.00	2
				LTE Band 4			
		RB Size	RB	Low CH 20000	Mid CH 20175	High CH 20350	
BW	Modulation		Offset	Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz	MPR
		1	0	23.13	23.38	23.15	0
		1	24	22.99	23.20	23.02	0
		1	49	22.89	23.09	22.83	0
	QPSK	25	0	22.01	22.26	22.03	1
		25	12	21.97	22.18	22.00	1
		25	25	21.90	22.10	21.84	1
40 MU-		50	0	21.93	22.18	21.95	1
10 MHz		1	0	22.24	22.31	22.13	1
		1	24	21.96	22.16	21.90	1
		1	49	21.85	22.10	21.87	1
	16QAM	25	0	21.24	21.31	21.13	2
		25	12	20.93	21.13	20.87	2
		25	25	20.87	21.12	20.89	2
		50	0	21.15	21.22	21.04	2



				LTE Band 4			
DW	Market and an	RB	RB	Low CH 20025	Mid CH 20175	High CH 20325	
BW	Modulation	Size	Offset	Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz	MPR
		1	0	23.19	23.44	23.21	0
		1	37	23.05	23.26	23.08	0
		1	74	22.95	23.15	22.89	0
	QPSK	36	0	22.07	22.32	22.09	1
		36	19	22.03	22.24	22.06	1
		36	39	21.96	22.16	21.90	1
45 8411-		75	0	21.99	22.24	22.01	1
15 MHz		1	0	22.30	22.37	22.19	1
		1	37	22.02	22.22	21.96	1
		1	74	21.91	22.16	21.93	1
	16QAM	36	0	21.30	21.37	21.19	2
		36	19	20.99	21.19	20.93	2
		36	39	20.93	21.18	20.95	2
		75	0	21.21	21.28	21.10	2
				LTE Band 4	l		l
DW		RB		Low CH 20050	Mid CH 20175	High CH 20300	моо
BW	Modulation	Size		Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz	MPR
		1	0	23.22	23.47	23.24	0
		1	50	23.08	23.29	23.11	0
		1	99	22.98	23.18	22.92	0
	QPSK	50	0	22.10	22.35	22.12	1
		50	25	22.06	22.27	22.09	1
		50	50	21.99	22.19	21.93	1
008411-		100	0	22.02	22.27	22.04	1
20MHz		1	0	22.33	22.40	22.22	1
		1	50	22.05	22.25	21.99	1
		1	99	21.94	22.19	21.96	1
	16QAM	50	0	21.33	21.40	21.22	2
		50	25	21.02	21.22	20.96	2
			50	20.96	21.21	20.00	2
		50	50	20.96	21.21	20.98	_



				LTE Band 12			
BW	Modulation	RB	RB	Low CH 23017	Mid CH 23095	High CH 23173	MPR
BW	Modulation	Size	Offset	Frequency 699.7 MHz	Frequency 707.5 MHz	Frequency 715.3 MHz	WII IX
		1	0	23.36	23.32	23.10	0
		1	2	23.24	23.25	23.18	0
	QPSK	1	5	23.05	23.07 23.10		0
		3	0	23.34	23.30 23.08		0
		3	1	23.22	23.23	23.16	0
		3	3	23.03	23.05	23.08	0
1.4		6	0	22.31	22.27	22.05	1
MHz		1	0	22.42	22.41	22.34	1
		1	2	22.35	22.37	22.40	1
		1	5	22.25	22.21	21.99	1
	16QAM	3	0	22.41	22.40	22.33	1
		3	1	22.34	22.36	22.39	1
		3	3	22.24	22.20	21.98	1
		6	0	21.30	21.29	21.22	2

LTE Band 12

BW	Modulation	RB	RB	Low CH 23025	Mid CH 23095	High CH 23165	MPR
BW	Woddiation	Size	Offset	Frequency 700.5 MHz	Frequency 707.5 MHz	Frequency 714.5 MHz	WII IX
		1	0	23.40	23.36	23.14	0
		1	7	23.28	23.29	23.22	0
		1	14	23.09	23.11	23.14	0
	QPSK	8	0	22.43	22.39 22.17		1
		8	3	22.30	22.31	22.24	1
		8	7	22.25	22.27	22.30	1
2 MII-		15	0	22.35	22.31	22.09	1
3 MHz		1	0	22.46	22.45	22.38	1
		1	7	22.39	22.41	22.44	1
		1	14	22.29	22.25	22.03	1
	16QAM	8	0	21.38	21.37	21.30	2
		8	3	21.29	21.31	21.34	2
		8	7	21.33	21.29	21.07	2
		15	0	21.34	21.33	21.26	2



				LTE Band 12			
BW	Modulation	RB	RB	Low CH 23035	Mid CH 23095	High CH 23155	MPR
		Size	Offset	Frequency 701.5 MHz	Frequency 707.5 MHz	Frequency 713.5 MHz	
		1	0	23.46	23.42	23.20	0
		1	12	23.34	23.35	23.28	0
		1	24	23.15	23.17	23.20	0
	QPSK	12	0	22.49	22.45	22.23	1
		12	6	22.36	22.37	22.30	1
		12	13	22.31	22.33	22.36	1
5 MII-		25	0	22.41	22.37	22.15	1
5 MHz		1	0	22.52	22.51	22.44	1
		1	12	22.45	22.47	22.50	1
		1	24	22.35	22.31	22.09	1
	16QAM	12	0	21.44	21.43	21.43 21.36	
		12	6	21.35	21.37	21.37 21.40	
		12	13	21.39	21.35	21.13	2
		25	0	21.40	21.39	21.32	2
				LTE Band 12			
		RB	RB	Low CH 23060	Mid CH 23095	High CH 23130	
BW	Modulation	Size	Offset	Frequency 704 MHz	Frequency 707.5 MHz	Frequency 711 MHz	MPR
		1	0	23.49	23.45	23.23	0
		1	24	23.37	23.38	23.31	0
		1	49	23.18	23.20	23.23	0
	QPSK	25	0	22.52	22.48 22.26		1
		25	12	22.39	22.40	22.33	1
		25	25	22.34	22.36	22.39	1
40 8411-		50	0	22.44	22.40	22.18	1
10 MHz		1	0	22.55	22.54	22.47	1
		1	24	22.48	22.50	22.53	1
		1	49	22.38	22.34	22.12	1
	16QAM	25	0	21.47	21.46	21.39	2
		25	12	21.38	21.40	21.43	2
		25	25	21.42	21.38	21.16	2
		50	0	21.43	21.42	21.35	2



				LTE Band 2				
BW	Modulation	RB	RB	Low CH 18675	Mid CH 18900	High CH 19125	3GPP MPR	
DVV	Modulation	Size	Size Offset Fro		Frequency 1857.5 MHz	Frequency 1880 MHz	Frequency 1902.5 MHz	(dB)
		1	0	23.35	23.42	23.55	0	
		1	37	23.27	23.30	23.42	0	
		1	74	23.16	23.26	23.23	0	
	QPSK	36	0	22.59	22.66 22.79		1	
		36	19	22.41	22.44 22.56		1	
		36	39	22.23	22.33	22.30	1	
45 MII-		75	0	22.43	22.50	22.63	1	
15 MHz		1	0	22.74	22.77	22.81	1	
		1	37	22.44	22.54	22.51	1	
		1	74	22.21	22.28	22.41	1	
	16QAM	36	0	21.65	21.68	21.72	2	
		36	19	21.34	21.44	21.41	2	
		36	39	21.31	21.38	21.51	2	
		75	0	21.51	21.54	21.58	2	

LTE Band 2

BW	Madulation	RB	RB	Low CH 18700	Mid CH 18900	High CH 19100	3GPP
DVV	Modulation	Size	Offset	Frequency 1860 MHz	Frequency 1880 MHz	Frequency 1900 MHz	MPR (dB)
		1	0	23.40	23.47	23.60	0
		1	50	23.32	23.35	23.47	0
		1	99	23.21	23.31	23.28	0
	QPSK	50	0	22.64	22.71 22.84		1
		50	25	22.46	22.49	22.61	1
		50	50	22.28	22.38	22.35	1
201411-		100	0	22.48	22.55	22.68	1
20MHz		1	0	22.79	22.82	22.86	1
		1	50	22.49	22.59	22.56	1
		1	99	22.26	22.33	22.46	1
	16QAM	50	0	21.70	21.73	21.77	2
		50	25	21.39	21.49	21.46	2
		50	50	21.36	21.43	21.56	2
		100	0	21.56	21.59	21.63	2



3.5 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

GPRS

Band	Frequency (MHz)	Operating Mode	Antenna Gain (dBi)	Conducted Time Average Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm^2)	limit (mW/cm^2)	PASS / FAIL
GPRS 850	848.8	GPRS12	3	23.49	445.656	0.089	0.57	PASS
PCS 1900	1909.8	GPRS12	5	20.88	387.258	0.077	1.00	PASS

WCDMA

Band	Frequency (MHz)	Operating Mode	Gain	Conducted Average Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm^2)	limit (mW/cm^2)	PASS/ FAIL
WCDMA850	836.4	RMC12.2k	3	23.00	398.107	0.079	0.56	PASS
WCDMA1900	1907.6	RMC12.2k	5	22.91	618.016	0.123	1.00	PASS

LTE

Band	Frequency (MHz)	Operating Mode	Gain	Conducted Average Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm^2)	limit (mW/cm^2)	PASS/ FAIL
Band2	1900.0	QPSK	5	23.60	724.436	0.144	1.00	PASS
Band4	1732.5	QPSK	5	23.47	703.072	0.140	1.00	PASS
Band12	704.0	QPSK	3	23.49	445.656	0.089	0.47	PASS