

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCIS14080064406

FCC REPORT (BLE)

Applicant: Nexpro International Limitada

Address of Applicant: Guadalupe, Barrio Tournon, Frente Al Hotel Villas Oficinas Del

Bufete Facio Y Canas

Equipment Under Test (EUT)

Product Name: M805

Model No.: Rush, Bolt, Roar

Trade mark: sendtel

FCC ID: ZYPRUSH

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 06 Aug., 2014

Date of Test: 07 Aug., to 16 Sep., 2014

Date of report issued: 16 Sep., 2014

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	16 Sep., 2014	Original

Prepared by: 16 Sep., 2014

Report Clerk

Reviewed by: Date: 16 Sep., 2014

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	Nexpro International Limitada
Address of Applicant:	Guadalupe, Barrio Tournon, Frente Al Hotel Villas Oficinas Del Bufete Facio Y Canas
Factory:	Megatron Mobile Corporation Limited
Address of Factory:	Room No. 1605, Building A, T-Share Jinniu Square (T-Share International Centre), Taoyuan Road, Nanshan District, Shenzhen, Guangdong, China 518033

5.2 General Description of E.U.T.

Product Name:	M805
Model No.:	Rush, Bolt, Roar
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	-1 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1800mAh
AC adapter:	Model:TPA-655100UU
	Input:100-240V AC,50/60Hz 0.2A
	Output:5.0V DC MAX1000mA



Operation Frequency each of channel									
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency		
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz		
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz		
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz		
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz		
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz		
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz		
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz		
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz		
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz		
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2442MHz
The Highest channel	2480MHz



5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Operation mode	Keep the EUT in continuous transmitting with modulation

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

N/A

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

● IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



5.7 Test Instruments list

Rad	Radiated Emission:									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)				
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	Aug 23 2014	Aug 22 2017				
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	Apr 19 2014	Apr 19 2015				
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	Apr 19 2014	Apr 19 2015				
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				
5	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2014	Mar. 31 2015				
6	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2014	June 08 2015				
7	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2014	Mar. 31 2015				
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2014	Mar. 29 2015				
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A				
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A				
11	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	Apr 19 2014	Apr 19 2015				
12	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2014	Mar. 31 2015				
13	Loop antenna	Laplace instrument	RF300	EMC0701	Apr 01 2014	Mar. 31 2015				
14	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May 29 2014	May. 28 2015				
15	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	Apr 19 2014	Apr 19 2015				

Con	Conducted Emission:									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)				
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	Oct 10 2011	Oct 09 2014				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	Apr 10 2014	Apr 09 2015				
3	LISN	CHASE	MN2050D	CCIS0074	Apr 10 2014	Apr 10 2015				
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2014	Mar. 31 2015				
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: F

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is -1 dBi.



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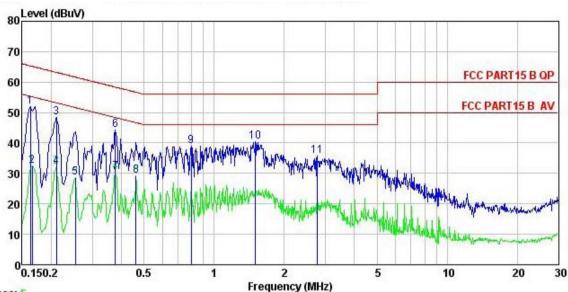
6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207							
Test Method:	ANSI C63.4: 2003							
Test Frequency Range:	150 kHz to 30 MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz							
Limit:	Fragues au range (MILE)	Frequency range (MHz) Limit (dBuV)						
	Quasi-peak Average							
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30	60	50					
Test procedure	* Decreases with the logarithm1. The E.U.T and simulators							
	a line impedance stabiliz 50ohm/50uH coupling impound for the peripheral devices through a LISN that prowith 50ohm termination. test setup and photograph 3. Both sides of A.C. line interference. In order to positions of equipment changed according to measurement.	pedance for the measure also connected ovides a 50ohm/50uH (Please refer to the hs). The are checked for the find the maximum earned all of the interface.	to the main power coupling impedance block diagram of the maximum conducted emission, the relative					
Test setup:	LISN 40cm	BIN BOOM STATE OF THE PROPERTY	er — AC power					
	E.U.T: Equipment Under Test LISN: Line Impedence Stabilizatio Test table height=0.8m							
Test Instruments:	E.U.T: Equipment Under Test LISN: Line Impedence Stabilizatio							
Test Instruments: Test mode:	E.U.T: Equipment Under Test LISN: Line Impedence Stabilizatio Test table height=0.8m							

Measurement Data



Neutral:



Trace: 5

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : 644RF Condition

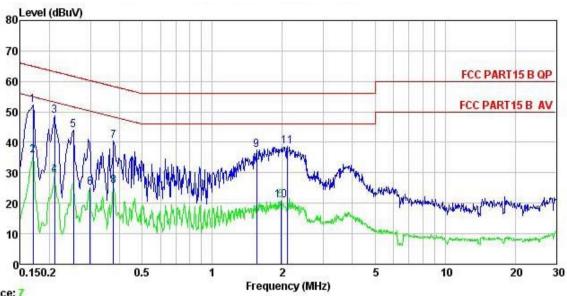
Job No. EUT Model : M805 : Rush Test Mode : BLE mode Power Rating : AC 120V/60Hz Environment : Temp: 23 'C Huni:56% Atmos:101KPa

Test Engineer:

Remark	:							
		Read	LISN	Cable		Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
122	MHz	dBu∜	dB	₫B	dBu₹	dBu∜	<u>dB</u>	
1	0.162	40.90	0.25	10.77	51.92	65.34	-13.42	QP
1 2 3 4 5 6 7 8 9	0.166	21.31	0.25	10.77	32.33	55.16	-22.83	Average
3	0.211	37.42	0.25	10.76	48.43	63.18	-14.75	QP
4	0.211	21.12	0.25	10.76	32.13	53.18	-21.05	Average
5	0.253	17.54	0.26	10.75	28.55	51.64	-23.09	Average
6	0.377	33.16	0.25	10.72	44.13	58.34	-14.21	QP
7	0.377	19.31	0.25	10.72	30.28	48.34	-18.06	Average
8	0.461	18.26	0.28	10.75	29.29	46.67	-17.38	Average
9	0.796	27.94	0.19	10.81	38.94	56.00	-17.06	QP
10	1.503	29.28	0.26	10.92	40.46	56.00	-15.54	QP
11	2.765	24.41	0.29	10.93	35.63	56.00	-20.37	QP



Line:



Trace: 7

Site

CCIS Shielding Room FCC PART15 B QP LISN LINE Condition

Job No. 644RF EUT M805 Model Rush

BLE mode AC 120V/60Hz Test Mode Power Rating:

Temp: 23 °C Huni:56% Atmos:101KPa Environment

Test Engineer: Remark

Read LISN Cable Limit Over Freq Level Factor Loss Level Line Limit Remark MHz dBuV 碅 dB dBuV dBuV dB 0.170 0.27 0.27 41.35 10.77 52.39 64.94 -12.55 QP 1 2 3 54.94 -19.19 Average 63.18 -14.59 QP 0.17024.71 10.77 35.75 0.211 37.55 0.2810.76 48.59 0.211 53.18 -23.94 Average 18.20 0.28 10.76 29.24 61.64 -17.56 QP 50.28 -25.06 Average 5 0.253 33.06 0.27 10.75 44.08 67 0.299 14.22 0.26 10.74 25.22 58.34 -17.99 QP 48.34 -22.73 Average 0.377 29.35 0.28 10.72 10.72 40.35 0.28 89 14.61 25.61 56.00 -18.50 QP 46.00 -25.05 Average 26.31 9.73 0.26 37.50 10.93 1.552 20.95 10 1.970 0.26 10.96 11 2.099 27.44 0.26 10.96 38.66 56.00 -17.34 QP

Notes:

- 1. An initial pre-scan was performed on the live and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss



6.3 Conducted Output Power

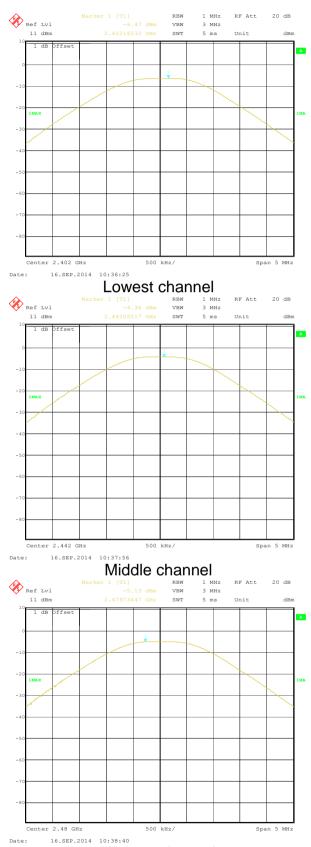
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	ANSI C63.4:2003 and KDB558074				
Limit:	30dBm				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				
Remark:	Test method refer to KDB558074 v03r01 (DTS Measure Guidance) section 9.2.2.2				

Measurement Data

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	-6.47		
Middle	-4.36	30.00	Pass
Highest	-5.13		

Test plot as follows:







6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	ANSI C63.4:2003 and KDB558074			
Limit:	>500kHz			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.7 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

Measurement Data

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result
Lowest	0.76		
Middle	0.76	>500	Pass
Highest	0.77		

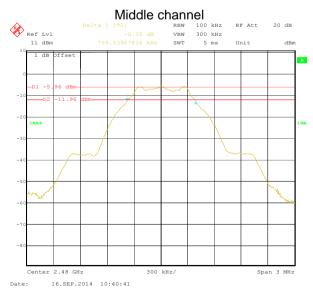
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result
Lowest	1.05		
Middle	1.04	N/A	N/A
Highest	1.05		

Test plot as follows:





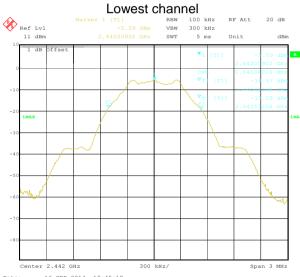


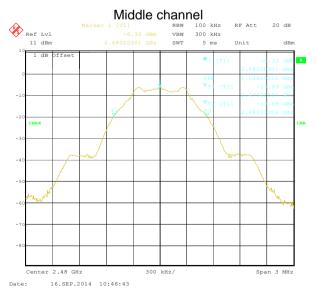


Highest channel









Highest channel



6.5 Power Spectral Density

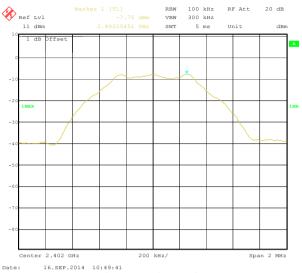
Test Requirement:	FCC Part15 C Section 15.247 (e)				
Test Method:	ANSI C63.4:2003 and KDB558074				
Limit:	8 dBm				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data

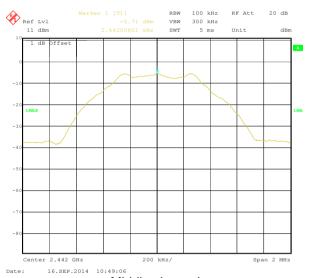
Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result
Lowest	-7.75		
Middle	-5.71	8.00	Pass
Highest	-6.39		

Test plots as follow:

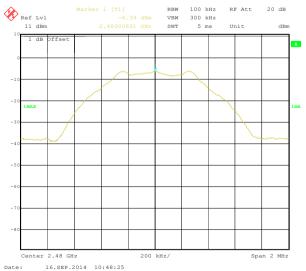




Lowest channel



Middle channel



Highest channel



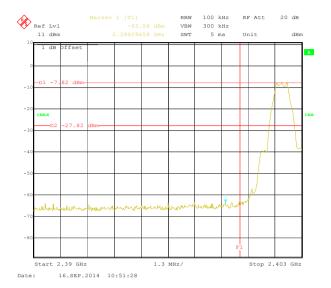
6.6 Band Edge

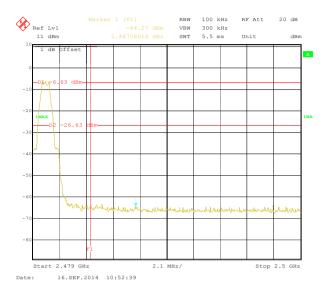
6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.4:2003 and KDB558074					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table					
	Ground Reference Plane					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Test plots as follow:







Lowest channel

Highest channel



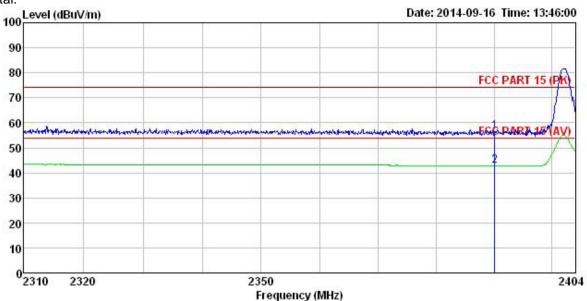
6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.4: 20	03					
Test Frequency Range:	2.3GHz to 2.5G	Hz					
Test site:	Measurement D	Distance: 3m					
Receiver setup:				<u> </u>			
	Frequency	Detector	RBW	VBW	Remark		
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value		
Limit:			L				
	Freque	ency	Limit (dBuV/		Remark		
	Above 1	GHz	54.0		Average Value		
Test Procedure:	1. The EUT w	vas placed on t	74.0		Peak Value		
	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data 						
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table A A A A A A A A A A A A A						
Test Instruments:	Refer to section 5.7 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						



Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : 644RF Condition

Job No. M805 EUT

Model : Rush
Test mode : BLT TX(low channer) Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: MT

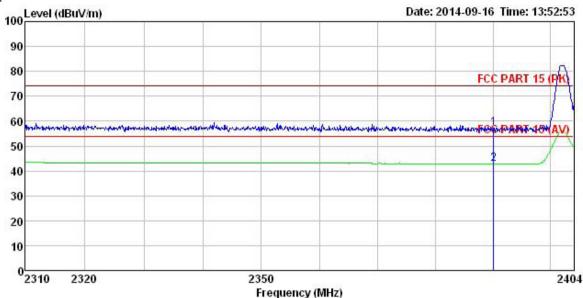
REMARK

	Freq		Antenna Factor				Limit Line		Remark	
5	MHz	dBu∜	dB/m	<u>ab</u>	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>		
1 2	2390.000 2390.000									



Test channel: Lowest

Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : 644RF Condition

Job No. EUT M805

Model : Rush
Test mode : BLT TX(low channer) Mode
Power Rating : AC 120V/60Hz
Environment : Temp: 25.5 C Huni: 55%

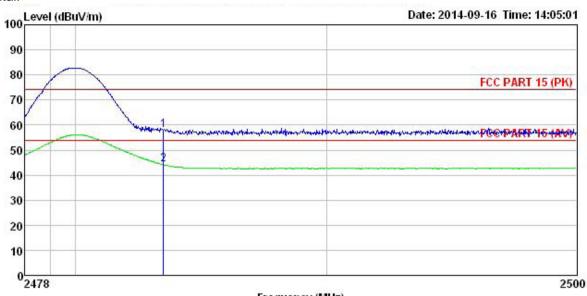
Test Engineer: MT REMARK :

лини			Antenna Factor			Limit Line	Over Limit	Remark
ē	MHz	dBu∀	dB/m	 <u>d</u> B	dBuV/m	dBuV/m	<u>d</u> B	
1 2	2390.000 2390.000							



Test channel: Highest

Horizontal:



Frequency (MHz)

Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : 644RF Condition

Job No. EUT : M805

Model : Rush
Test mode : BLT TX(high channer) Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: REMARK :

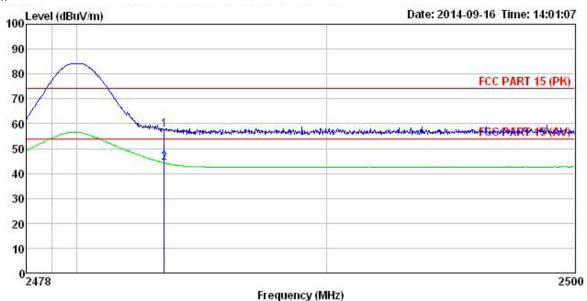
1 2

		Read	Antenna	Cable	Preamp		Limit	Over	
Fre	ps	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
ME	İz	dBu∜	dB/m		<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
NAME OF TAXABLE PARTY.		7 CONT. 1. CONT. 10	27.52 27.52	5.70 5.70		58.07 44.11		7070.00	Peak Average



Test channel: Highest

Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

Job No. EUT : 644RF : M805

Model : Rush
Test mode : BLT TX(high channer) Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer:

REMARK

- MILIT	3		Antenna Factor			Limit Line	 Remark
7	MHz	dBu∇	<u>d</u> B/m		 dBuV/m	dBuV/m	
5000000	2483.500 2483.500	7007000000		705,000,000			



6.7 Spurious Emission

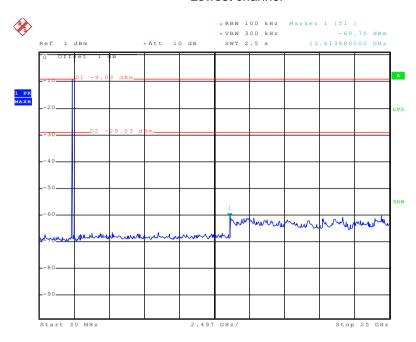
6.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	ANSI C63.4:2003 and KDB558074						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table						
Test Instruments:	Refer to section 5.7 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						

Test plot as follows:



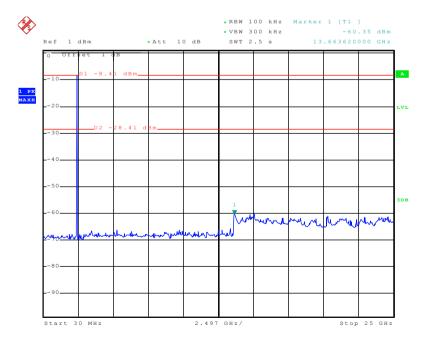
Lowest channel



Date: 16.SEP.2014 10:50:44

30MHz~25GHz

Middle channel

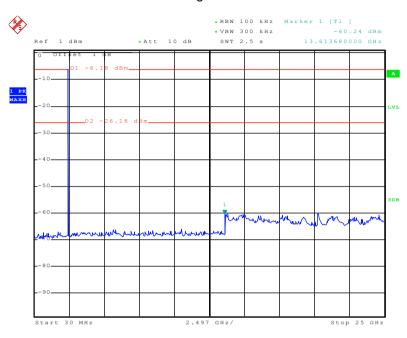


Date: 16.SEP.2014 10:51:30

30MHz~25GHz



Highest channel



Date: 16.SEP.2014 10:54:25

30MHz~25GHz



6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.4:2003						
Test Frequency Range:	9KHz to 25GHz						
Test site:	Measurement Distance: 3m						
Receiver setup:							
	Frequency	Detector	RBW	VBW	Remark		
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
	Above IGHZ	Peak	1MHz	10Hz	Average Value		
Limit:		T.					
	Frequency		Limit (dBuV/m	@3m)	Remark		
	30MHz-88MHz		40.0		Quasi-peak Value		
	88MHz-216MHz		43.5		Quasi-peak Value		
	216MHz-960MH	z	46.0		Quasi-peak Value		
	960MHz-1GHz		54.0		Quasi-peak Value		
	Above 1GHz	-	54.0		Average Value		
T . D	1 The FLIT w	oo placed or		rotating tab			
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data 						

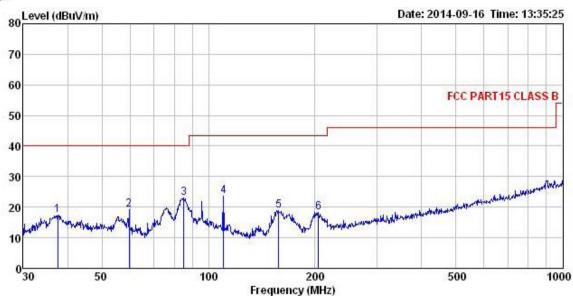


Test setup: Below 1GHz Antenna Tower Search Antenna RF Test Receiver	
EUT — Search Antenna RF Test	
Turn Table 0.8m lm Ground Plane Above 1GHz Antenna Tower Horn Antenna Spectrum Analyzer	
Table Amplifier Amplifier	
Test Instruments: Refer to section 5.7 for details	
Test mode: Refer to section 5.3 for details	
Test results: Passed	
Remark: 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of about in this report.	



Below 1GHz

Horizontal:



Site

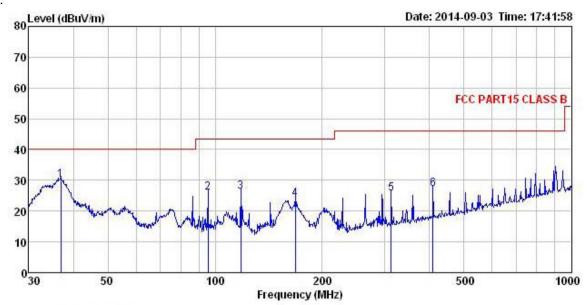
: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL : 644RF Condition

Job No. EUT M805 model : Rush
Test mode : BLE Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: MT
REMARK :

THRIVE	:0 3€									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark	
P(5)	MHz	dBu∛	—dB/m	₫B	<u>dB</u>	dBuV/m	dBuV/m			
1	37.548	34.01	12.96	0.50	29.92	17.55	40.00	-22.45	QP	
2	59.649	35.65	12.73	0.69	29.77	19.30	40.00	-20.70	QP	
3	85.298	41.27	10.45	0.88	29.60	23.00	40.00	-17.00	QP	
4	110.182	39.72	12.25	1.05	29.46	23.56	43.50	-19.94	QP	
5	158.112	38.20	8.58	1.33	29.15	18.96	43.50	-24.54	QP	
6	204.238	34.98	10.70	1.40	28.80	18.28	43.50	-25.22	QP	



Vertical:



Site : 3m chamber

: FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL Condition

Job No. 644RF EUT M805 Model Rush Test mode : BLE Mode Power Rating : AC 120V/60Hz

Temp: 25.5°C Huni: 55% Environment :

39.02

38.59

Test Engineer: MT REMARK

408.946

5

ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Remark MHz dBuV dB/m dB dB dBuV/m dBuV/m ďΒ 36.895 46.81 12.82 0.50 29.93 30.20 40.00 -9.80 QP 123 43.50 -17.48 QP 43.50 -17.09 QP 95.427 41.77 12.87 0.93 29.55 26.02 118.186 43.91 10.79 29.40 26.41 1.11 167.824 312.179 29.07 43.50 -19.57 QP 46.00 -20.43 QP 4 42.76 8.90 1.34 23.93 13.22 15.27 28.48 25.57

28.80

27.20

46.00 -18.80 QP

1.81

2.14



Above 1GHz

Te	st channel		Lov	vest	Lev	el:	Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	57.65	31.53	8.90	40.24	57.84	74.00	-16.16	Vertical
4804.00	57.41	31.53	8.90	40.24	57.60	74.00	-16.40	Horizontal
Test channel:			Lowest			el:	Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	36.50	31.53	8.90	40.24	36.69	54	-17.31	Vertical
4804.00	36.15	31.53	8.90	40.24	36.34	54	-17.66	Horizontal

Te	st channel:		Mic	ldle	Lev	⁄el:	Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4884.00	57.45	31.58	8.98	40.15	57.86	74.00	-16.14	Vertical	
4884.00	57.95	31.58	8.98	40.15	58.36	74.00	-15.64	Horizontal	
Te	st channel:		Mic	ldle	Lev	vel:	Av	erage	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4884.00	36.54	31.58	8.98	40.15	36.95	54.00	-17.05	Vertical	
4884.00	36.17	31.58	8.98	40.15	36.58	54.00	-17.42	Horizontal	
Test channel	l:		Highest		Level:		Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4960.00	56.89	31.69	9.08	40.03	57.63	74.00	-16.37	Vertical	
4960.00	56.49	31.69	9.08	40.03	57.23	74.00	-16.77	Horizontal	
Test channel:			Highest	hest Level:			Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4960.00	37.20	31.69	9.08	40.03	37.94	54.00	-16.06	Vertical	
4960.00	37.16	31.69	9.08	40.03	37.90	54.00	-16.10	Horizontal	

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.