



FCC Radio Partial Test Report

FCC ID: WS2-WG7833B0

This report concerns (check one): ☐Original Grant ☐Class I Change ☐Class II Change

: 1806T107A Project No. Equipment : Wireless module : WG7833-B0 Test Model

Series Model : N/A

: Jorjin Technologies INC. Applicant

: 17F., No 239, Sec. 1, Datong Rd., Xizhi Dist., New Address

Taipei City, 22161, TAIWAN, R.O.C.

Date of Receipt : Sep. 04, 2018

Date of Test : Sep. 04, 2018 ~ Oct. 08, 2018

: Oct. 11, 2018 Issued Date Tested by : BTL Inc.

Testing Engineer

Technical Manager

(James Chiu)

Authorized Signatory

(Andy Chiu)

BTL INC

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City, Taiwan (R.O.C.) FAX: +886-2-2657-3331

TEL:+886-2-2657-3299

0659

Report No.: BTL-FCCP-2-1806T107A

Page 1 of 49 Report Version: R00





Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

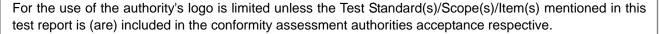
This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO Guide 17025 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements in all the possible configurations as representative of its intended use.

Limitation



Report No.: BTL-FCCP-2-1806T107A Page 2 of 49





Table of Contents	Page
1 . CERTIFICATION	5
2 . SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
3 . GENERAL INFORMATION	8
3.1 GENERAL DESCRIPTION OF EUT	8
3.2 DESCRIPTION OF TEST MODES	9
3.3 DUTY CYCLE	10
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TES	
3.5 DESCRIPTION OF SUPPORT UNITS	11
4 . EMC EMISSION TEST	12
4.1 CONDUCTED EMISSION MEASUREMENT	12
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	12
4.1.2 TEST PROCEDURE	12
4.1.3 DEVIATION FROM TEST STANDARD	12
4.1.4 TEST SETUP	13
4.1.5 EUT OPERATING CONDITIONS	13
4.1.6 EUT TEST CONDITIONS	13
4.1.7 TEST RESULTS	13
4.2 RADIATED EMISSION MEASUREMENT	14
4.2.1 RADIATED EMISSION LIMITS	14
4.2.2 TEST PROCEDURE	15
4.2.3 DEVIATION FROM TEST STANDARD	15
4.2.4 TEST SETUP	16
4.2.5 EUT OPERATING CONDITIONS	17
4.2.6 EUT TEST CONDITIONS	17
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	17
4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)	17
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)	17
5 . MEASUREMENT INSTRUMENTS LIST	18
6 . EUT TEST PHOTO	19
APPENDIX A – CONDUCTED EMISSION	24
APPENDIX B – RADIATED EMISSION (9KHZ TO 30MHZ)	27
APPENDIX C – RADIATED EMISSION (30MHZ TO 1000MHZ)	32
APPENDIX D – RADIATED EMISSION (ABOVE 1000MHZ)	35
APPENDIX – REFERENCE INFORMATION	48

Page 3 of 49 Report Version: R00





REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 11, 2018

Report No.: BTL-FCCP-2-1806T107A

Page 4 of 49 Report Version: R00





1. CERTIFICATION

Equipment : Wireless module

Brand Name: Jorjin

Test Model: WG7833-B0

Series Model: N/A

Applicant : Jorjin Technologies INC. Manufacturer: Jorjin Technologies INC.

Address : 17F., No 239, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City, 22161,

TAIWAN, R.O.C.

Date of Test : Sep. 04, 2018 ~ Oct. 08, 2018

Test Sample: Engineering Sample

Standard(s): FCC Part15, Subpart C (15.247)

ANSI C63.10-2013

The above equipment has been tested and found in compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1806T107A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the Bluetooth LE part.

Report No.: BTL-FCCP-2-1806T107A Page 5 of 49





2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15, Subpart C (15.247)			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emissions	PASS	
15.247(d) 15.209	Radiated Emissions	PASS	
15.203	Antenna Requirement	PASS	

Note:

- (1)" N/A" denotes test is not applicable in this test report
- (2) Accord to the EUT(Report Number: T150417W02-RP4 and model: WG7833-B0, WG7833BEM2A, WG7833BEM2B) has been certificated, Conducted and Radiated emission were criticized and reconfirmed in this report.
- (3) Compared with the previous report (T150417W02-RP4), added one PCB type antennas.

Report No.: BTL-FCCP-2-1806T107A Page 6 of 49





2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-14742; FCC RN:674415; FCC DN:TW0659) No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB15: (VCCI RN: R-20020; FCC RN:674415; FCC DN:TW0659; ISED Assigned Code:20088-5) No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB15: (VCCI RN: G-20031; FCC RN:674415; FCC DN:TW0659; ISED Assigned Code:20088-5) No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement y ± U, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

A. Conducted emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
C05	CISPR	150 kHz ~ 30MHz	2.68

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15	CISPR	9kHz ~ 150kHz	2.82
(3m)	CISPR	150kHz ~ 30MHz	2.58

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
		30MHz ~ 200MHz	V	4.20
CB15	CISPR	30MHz ~ 200MHz	Н	3.64
(3m)	CISPR	200MHz ~ 1,000MHz	V	4.56
		200MHz ~ 1,000MHz	Н	3.90

	Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
Ī			1GHz ~ 6GHz	V	4.46
	CB15	CISPR	1GHz ~ 6GHz	Н	4.40
	(3m)	CISPR	6GHz ~ 18GHz	V	3.88
			6GHz ~ 18GHz	Н	4.00

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15	CISPR	18 ~ 26.5 GHz	4.62
(1m)	CISPR	26.5 ~ 40 GHz	5.12

Page 7 of 49 Report No.: BTL-FCCP-2-1806T107A





3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless module
Brand Name	Jorjin
Test Model	WG7833-B0
Series Model	N/A
Model Difference	N/A
Power Source	Powered from host device via USB Cable
Power Rating	DC 5V
Products Covered	N/A
Operation Frequency	2402~2480 MHz
Modulation Technique	GFSK(1Mbps)

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	15 2432 3		2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Brand	Model	Typo	Connector		Gain (dBi)	
Ant.	Dianu	Model	Type	Connector	2.4 GHz	Band 1	Band 4
1	Liteon	Locix	PCB	N/A	3.83	4.10	2.27

Report No.: BTL-FCCP-2-1806T107A Page 8 of 49





3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Emissions			
Final Test Mode Description			
Mode 1	TX Mode		

For Radiated Emissions			
Final Test Mode Description			
Mode 1	TX Mode		

Note:

(1) The measurements are performed at the high, middle, low available channels.

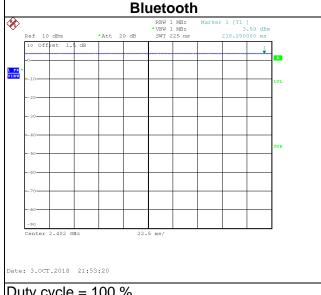
Report No.: BTL-FCCP-2-1806T107A Page 9 of 49





3.3 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered.



Duty cycle = 100 %

Duty Factor = $10 * \log(1 / 1) = 0$

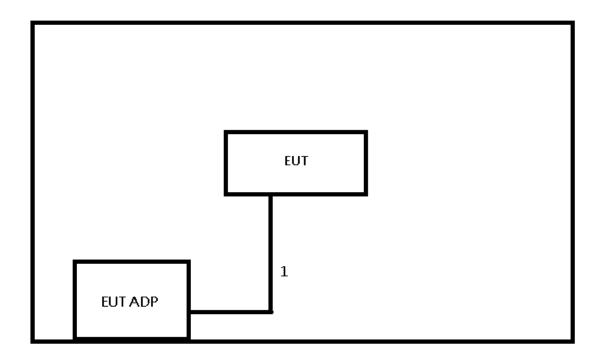
Report No.: BTL-FCCP-2-1806T107A

Page 10 of 49 Report Version: R00





3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-		-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	Power Cable

Report No.: BTL-FCCP-2-1806T107A Page 11 of 49





4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Fraguency of Emission (MUz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0.50	66 to 56*	56 to 46*	
0.50 -5.0	56	46	
5.0 -30.0	60	50	

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

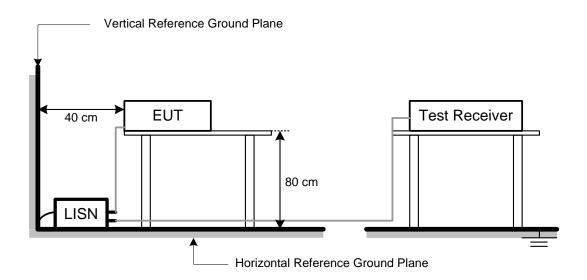
No deviation

Report No.: BTL-FCCP-2-1806T107A Page 12 of 49





4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 45% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Appendix A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) " N/A" denotes test is not applicable to this device.

Report No.: BTL-FCCP-2-1806T107A Page 13 of 49





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 m)		
Frequency (Miriz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

Report No.: BTL-FCCP-2-1806T107A Page 14 of 49





Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value	
(Emission in restricted band)	RMS detector for AV value	

Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector	
Start ~ Stop Frequency	90KHz~110KHz for QP detector	
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector	
Start ~ Stop Frequency	490KHz~30MHz for QP detector	
Start ~ Stop Frequency	30MHz~1000MHz for QP detector	

4.2.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 m above the ground at a 3 m semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 m semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

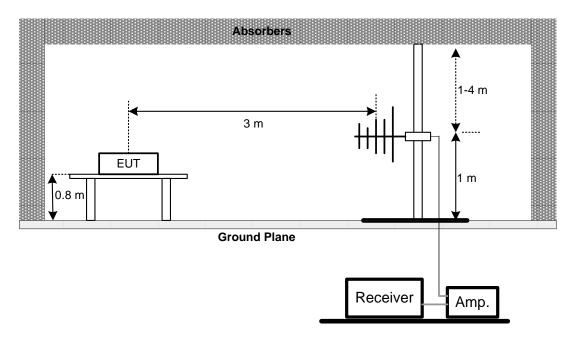
Report No.: BTL-FCCP-2-1806T107A Page 15 of 49



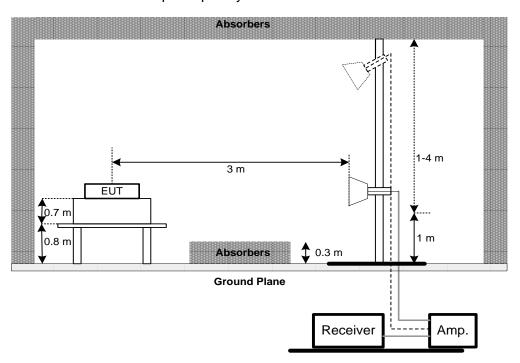


4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



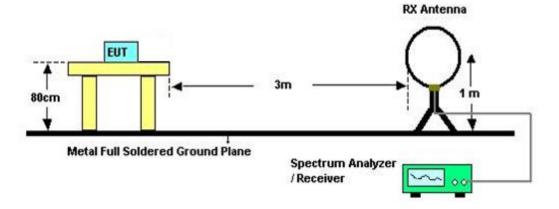
Report No.: BTL-FCCP-2-1806T107A

Page 16 of 49 Report Version: R00





(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 23°C Relative Humidity: 70% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix B.

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Appendix D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

Report No.: BTL-FCCP-2-1806T107A Page 17 of 49





5. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Mar. 08, 2019		
2	Test Cable	EMCI	EMCCFD300-BM-B MR-6000	170715	Aug. 07, 2019		
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 10, 2018		
4	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A		

	Radiated Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Preamplifier	EMCI	012645B	980267	Feb. 27, 2019		
2	Preamplifier	EMCI	EMC02325	980217	Dec. 27, 2018		
3	Preamplifier	EMCI	EMC2654045	980030	Feb. 13, 2019		
4	Test Cable	EMCI	EMC104-SM-S M-8000	8m	Jan. 03, 2019		
5	Test Cable	EMCI	EMC104-SM-S M-800	150207	Jan. 03, 2019		
6	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Jan. 03, 2019		
7	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan. 08, 2019		
8	Signal Analyzer	Agilent	N9010A	MY52220990	Feb. 21, 2019		
9	Loop Ant	EMCI	LPA600	274	May 03, 2019		
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Feb. 27, 2019		
11	Horn Ant	Schwarzbeck	BBHA 9170	187	Dec. 05, 2018		
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan. 15, 2019		
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan. 15, 2019		

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.

Report No.: BTL-FCCP-2-1806T107A Page 18 of 49



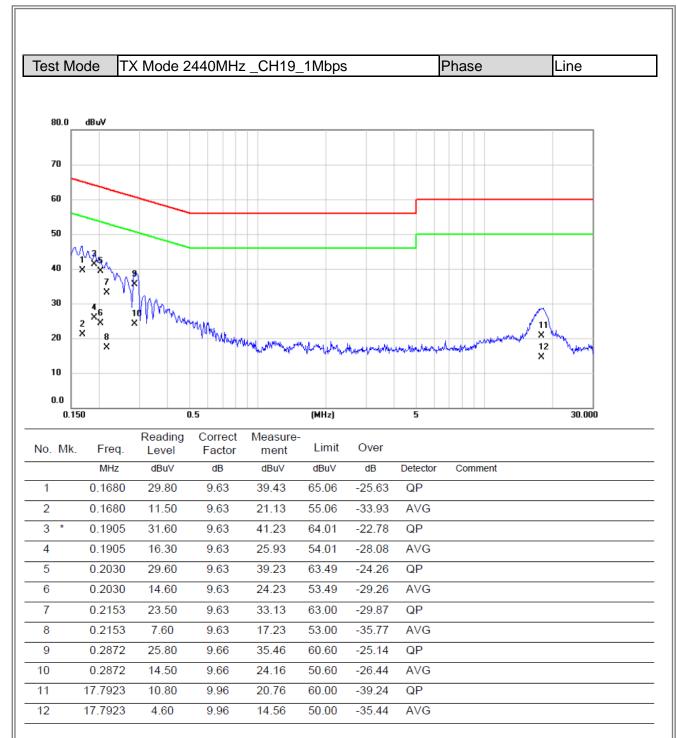


	100
APPENDIX A – CONDUCTED EMISSION	

Page 24 of 49 Report Version: R00

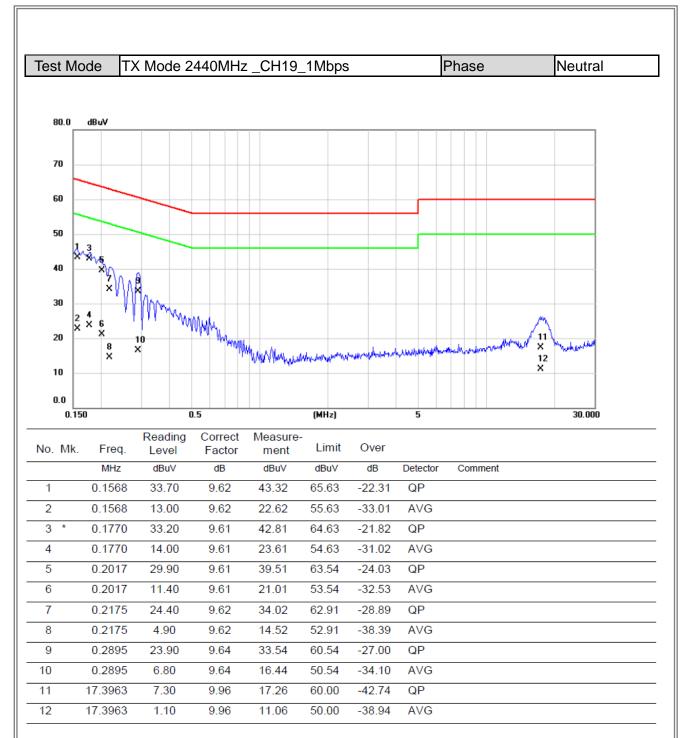














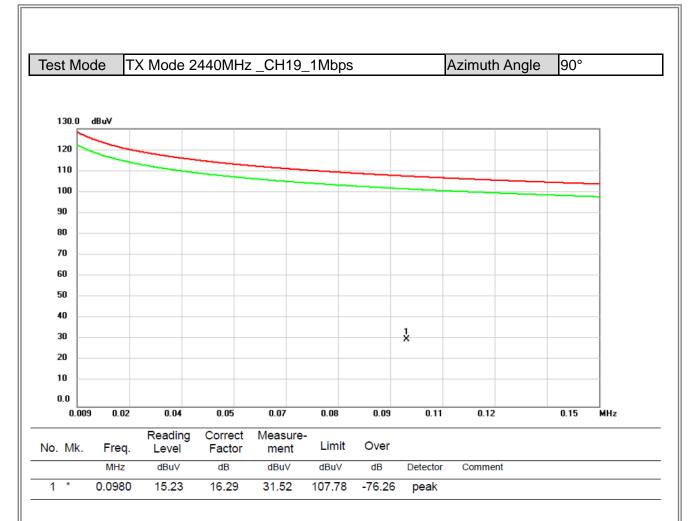


APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)

Report No.: BTL-FCCP-2-1806T107A Page 27 of 49



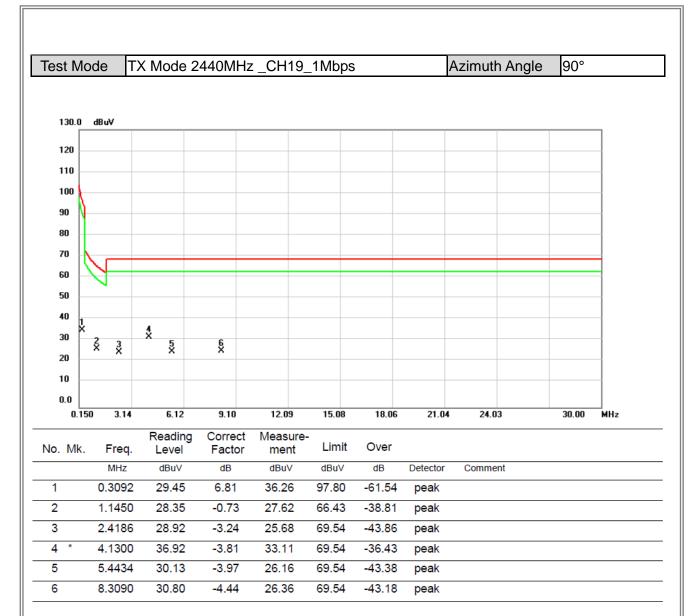




Page 28 of 49 Report Version: R00

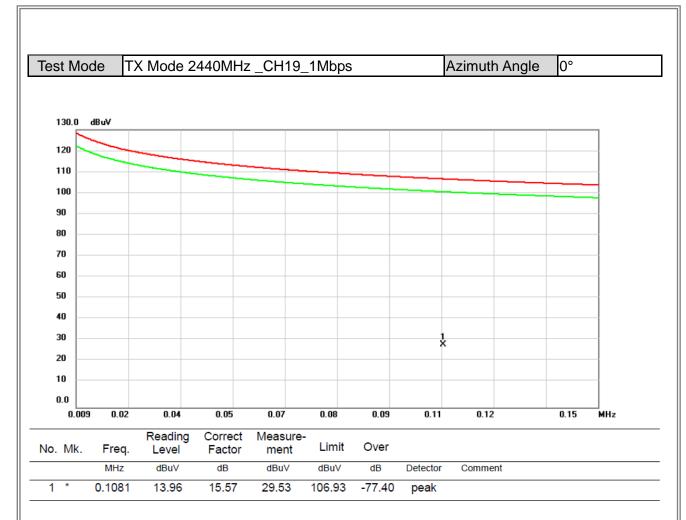






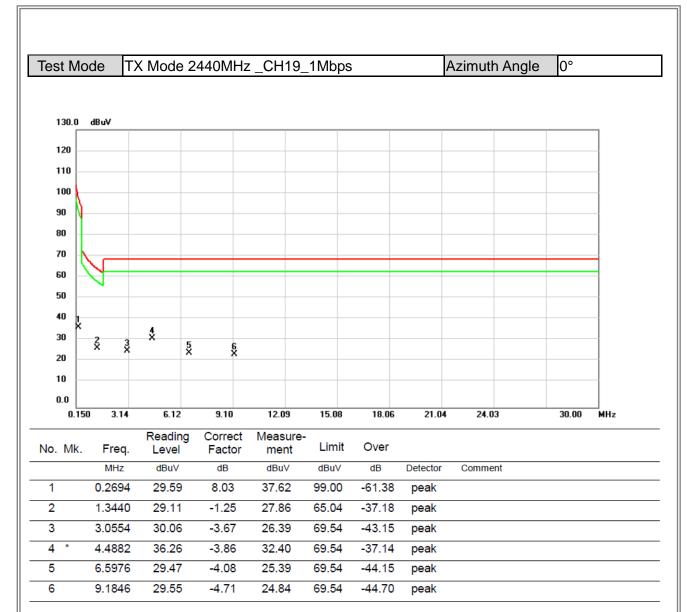
















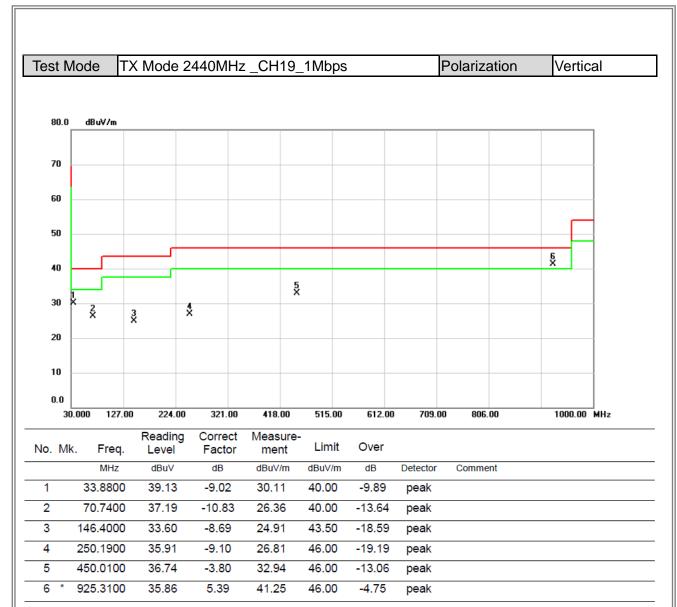
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Report No.: BTL-FCCP-2-1806T107A Report Version: R00

Page 32 of 49



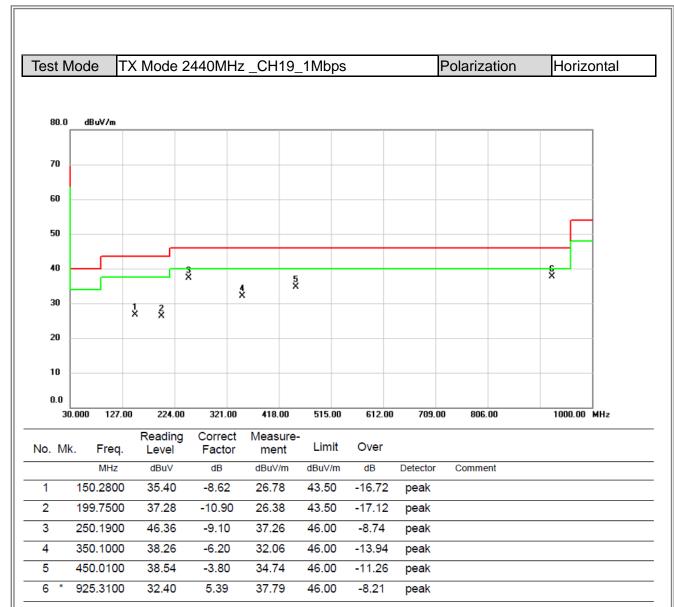




Page 33 of 49 Report Version: R00







Page 34 of 49 Report Version: R00





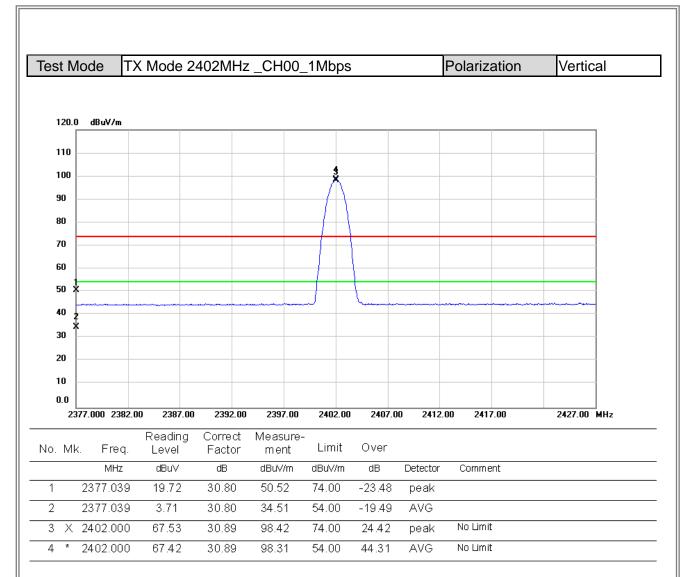
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Report No.: BTL-FCCP-2-1806T107A

Page 35 of 49 Report Version: R00



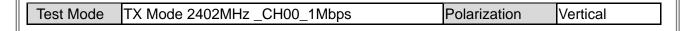


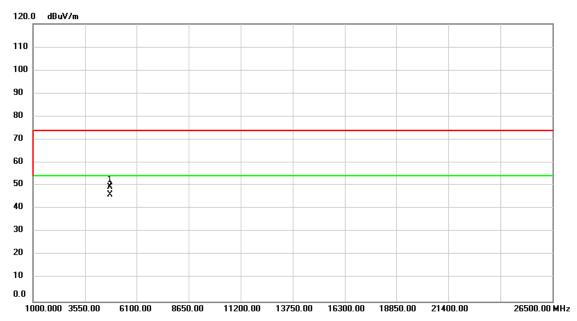


Page 36 of 49 Report Version: R00









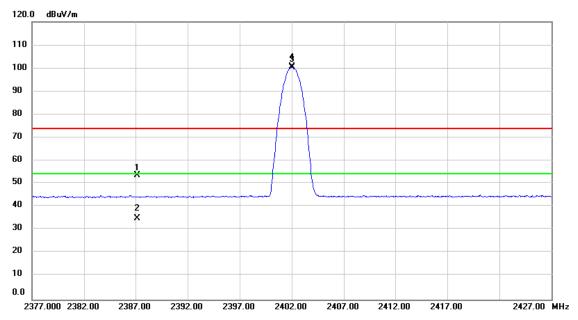
No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	60.72	-11.49	49.23	74.00	-24.77	peak	
2	*	4804.000	57.56	-11.49	46.07	54.00	-7.93	AVG	

Page 37 of 49 Report Version: R00





Test Mode TX Mode 2402MHz _CH00_1Mbps Polarization Horizontal



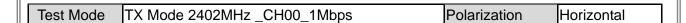
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2387.153	22.83	30.83	53.66	74.00	-20.34	peak	
		2387.153	4.20	30.83	35.03	54.00	-18.97	AVG	
3	Х	2402.000	69.68	30.89	100.57	74.00	26.57	peak	No Limit
4	*	2402.000	69.60	30.89	100.49	54.00	46.49	AVG	No Limit

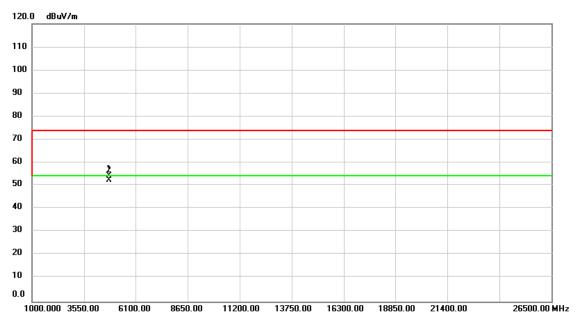
Report No.: BTL-FCCP-2-1806T107A

Page 38 of 49 Report Version: R00







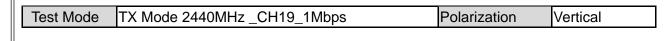


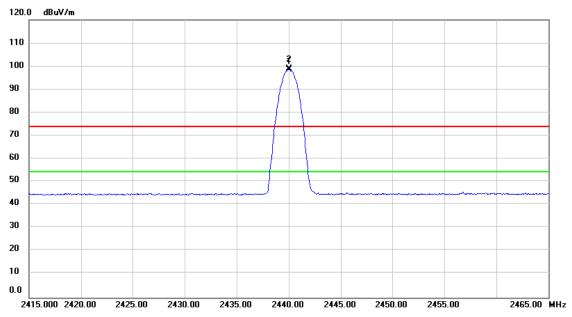
No.	MŁ	ζ.	Freq.	Reading Level		Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		480	04.000	65.76	-11.49	54.27	74.00	-19.73	peak	
2	*	480	04.000	63.74	-11.49	52.25	54.00	-1.75	AVG	

Page 39 of 49 Report Version: R00







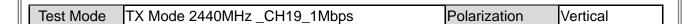


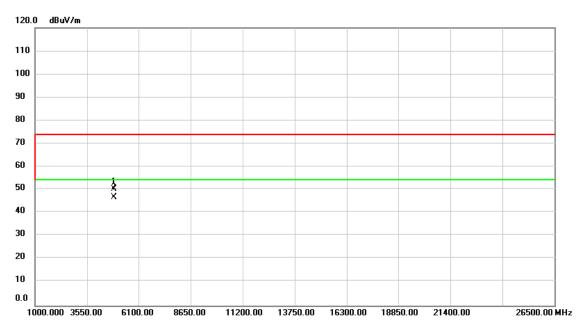
N	0.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	Х	2440.000	67.76	31.02	98.78	74.00	24.78	peak	No Limit
	2	*	2440.000	67.64	31.02	98.66	54.00	44.66	AVG	No Limit

Page 40 of 49 Report Version: R00







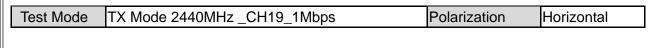


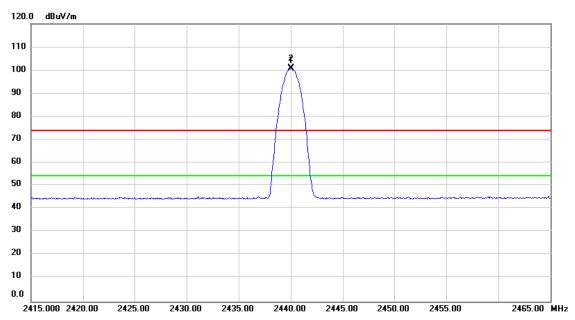
No.	MI	k.	Freq.			Measure- ment		Over		
			MHz	dBu∨	dB	dBu√/m	dBuV/m	dB	Detector	Comment
1		48:	80.000	61.67	-11.42	50.25	74.00	-23.75	peak	
2	*	48	80.000	58.19	-11.42	46.77	54.00	-7.23	AVG	

Page 41 of 49 Report Version: R00







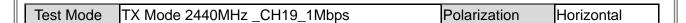


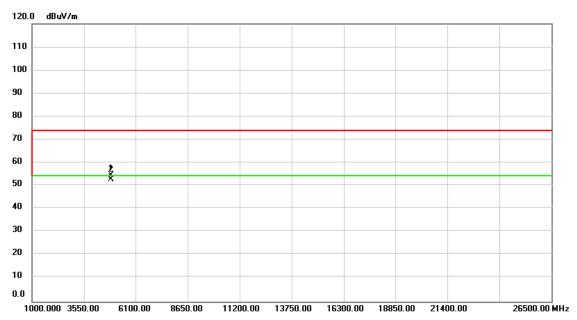
No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Х	2440.000	69.88	31.02	100.90	74.00	26.90	peak	No Limit
2	*	2440.000	69.78	31.02	100.80	54.00	46.80	AVG	No Limit

Page 42 of 49 Report Version: R00









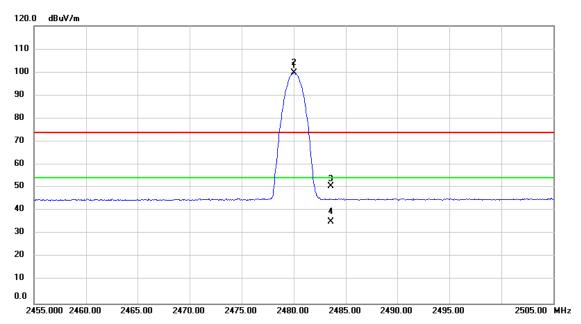
No). N	Иk.	Freq.			Measure- ment		Over		
			MHz	dBu∨	dB	dBu√/m	dBuV/m	dB	Detector	Comment
-	1	4	-880.000	65.90	-11.42	54.48	74.00	-19.52	peak	
- 2	2 *	* 4	-880.000	64.22	-11.42	52.80	54.00	-1.20	AVG	

Page 43 of 49 Report Version: R00





Test Mode TX Mode 2480MHz _CH39_1Mbps Polarization Vertical

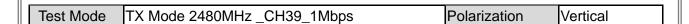


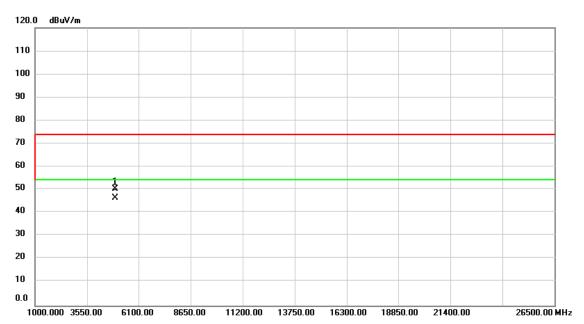
No	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	Х	2480.000	68.57	31.16	99.73	74.00	25.73	peak	No Limit
2	*	2480.000	68.48	31.16	99.64	54.00	45.64	AVG	No Limit
3		2483.566	19.52	31.17	50.69	74.00	-23.31	peak	
4		2483.566	4.23	31.17	35.40	54.00	-18.60	AVG	

Report No.: BTL-FCCP-2-1806T107A









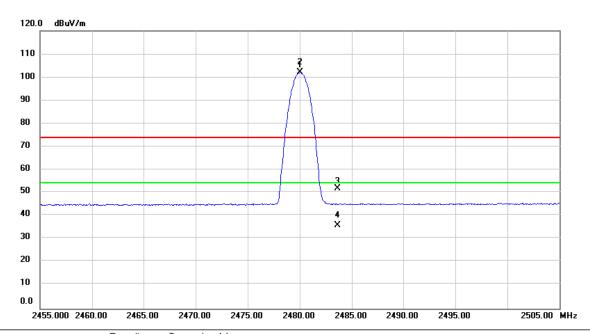
No). 1	Mk.	. Freq.			Measure- ment		Over		
			MHz	dBu∨	dB	dBu√/m	dBuV/m	dB	Detector	Comment
	1		4960.000	61.46	-11.33	50.13	74.00	-23.87	peak	
- 2	2	*	4960.000	57.71	-11.33	46.38	54.00	-7.62	AVG	

Page 45 of 49 Report Version: R00





Test Mode TX Mode 2480MHz _CH39_1Mbps Polarization Horizontal



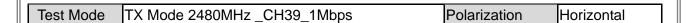
	No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
-			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1	Х	2480.000	70.97	31.16	102.13	74.00	28.13	peak	No Limit	
-	2	*	2480.000	70.87	31.16	102.03	54.00	48.03	AVG	No Limit	
-	3		2483.615	20.67	31.17	51.84	74.00	-22.16	peak		
_	4		2483.615	4.68	31.17	35.85	54.00	-18.15	AVG		
-											

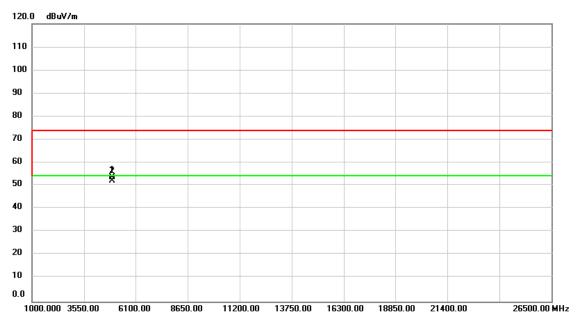
Report No.: BTL-FCCP-2-1806T107A

Page 46 of 49 Report Version: R00









No	. М	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		49	960.000	65.02	-11.33	53.69	74.00	-20.31	peak	
	*	49	960.000	63.41	-11.33	52.08	54.00	-1.92	AVG	

Page 47 of 49 Report Version: R00





	110
APPENDIX – REFERENCE INFORMATION	

Page 48 of 49 Report Version: R00





Normal Condition Power Table

Test Mode B	LE
-------------	----

Frequency (MHz)	ANT-0		Total Power		Limit
	Peak	Average	Peak	Average	PASS/
	dBm	dBm	dBm	dBm	Fail
2402	5.10	4.94	5.10	4.94	PASS
2440	4.84	4.67	4.84	4.67	PASS
2480	5.15	4.99	5.15	4.99	PASS

Report No.: BTL-FCCP-2-1806T107A Page 49