



FCC Radio Test Report

FCC ID: RWO-RZ090195

This report conc	erns (check one):	: ⊠Original Grant	
Droinet No	. 10000010		

Project No. : 1608C213
Equipment : Notebook
Model Name : RZ09-0195
Applicant : Razer Inc.

Address : 201 3rd Street, Suite 900, San Francisco, CA 94103

Date of Receipt : Aug. 23, 2016

Date of Test : Aug. 23, 2016 ~ Aug. 29, 2016

Issued Date : Aug. 30, 2016 Tested by : BTL Inc.

Testing Engineer : Shawn Xiao

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Declaration

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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1608C213	Original Issue.	Aug. 30, 2016

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1. CERTIFICATION

Equipment : Notebook
Brand Name : RAZER
Model Name : RZ09-0195
Applicant : Razer Inc.
Manufacturer : Razer Inc.

Address : 201 3rd Street, Suite 900, San Francisco, CA 94103

Factory: RAZER TECHNOLOGY AND DEVELOPMENT (SHENZHEN) CO., LTD

Address : East Wing, 3rd Floor, Block 2, Phase 1 of Vision Shenzhen Business Park Keji

South Road, Hi-Tech Industrial Park, Shenzhen 518057, China

Date of Test : Dec. 09, 2015 ~ Dec. 23, 2015

Test Sample: Engineering Sample

Standard(s): FCC Part15, Subpart C:2014 (15.247) / ANSI C63.10-2013

The above equipment has been tested and found 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-2-1608C213) 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.

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): Fo	CC Part15 (15.247) , Sub	part C: 2014	
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.209/15.205	Transmitter Radiated Emissions	PASS	

NOTE:

(1)" N/A" denotes test is not applicable to this device.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330

than the CISPR 16-4-2 U_{cispr} requirement.

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

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

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)									
		9KHz~30MHz	V	3.79									
		9KHz~30MHz	Ι	3.57									
		30MHz ~ 200MHz	V	3.82									
	DG-CB03 CISPR	30MHz ~ 200MHz	Ι	3.78									
DG CR03		CICDD	200MHz ~ 1,000MHz	V	4.10								
DG-CD03		200MHz ~ 1,000MHz	Н	4.06									
		1GHz~18GHz	V	3.12									
			i								1GHz~18GHz	1GHz~18GHz	Н
		18GHz~40GHz	V	4.15									
		18GHz~40GHz	Н	4.14									

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Notebook			
Brand Name	RAZER			
Model Name	RZ09-0195			
Model Difference	NA			
	Operation Frequency	2402~2480 MHz		
Product Description	Modulation Technology	GFSK(1Mbps)		
	Bit Rate of Transmitter	Ci Cit(Tivisps)		
	Output Power (Max.)	-1.01 dBm (1Mbps)		
Power Source	1# DC voltage supplied from AC/DC adapter. Model: RC30-0165 2# Supplied Li-ion battery Model: BETTY4			
Power Rating	1# I/P: AC 100-240V 2.5A 50/60Hz O/P: DC 19.8V 8.33A 2# DC 11.4V 6160mAh 70Wh			

Note:

1.	For a more d	etailed fe	eatures o	description,	please	refer to th	ne manut	facturer's	specification	ons or	the
	user's manua	al.		-	-				-		

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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	2432	35	2472			
16	2434	36	2474			
17	2436	37	2476			
18	2438	38	2478			
19	2440	39	2480			

3. Table for Filed Antenna

Ant	Drand	Model	Antenna	Connector	Gain	Note
Ant.	Brand	Name	Туре	Connector	(dBi)	Note
1	N/A	N/A	Internal	N/A	2.97	N/A

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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 NOTE (1)
Mode 2	TX Mode

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

For Conducted Test			
Final Test Mode Description			
Mode 2	TX Mode		

For Radiated Test		
Final Test Mode Description		
Mode 1	TX Mode NOTE (1)	

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) Both adapter and battery are evaluated, operated the adapter is the worst and recorded as below test data

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test Software Version	Run QCARCT			
Frequency	2402 MHz 2441 MHz 2480 MHz			
BT LE	N/A	N/A	N/A	

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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	1.8m	DC Cable
Ī	2	NO	NO	1m	AC Cable

Note:

(1) For detachable type I/O cable should be specified the length in m in <code>"Length_"</code> column.

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dBµV)		
	Quasi-peak	Average	
0.15 -0.5	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 equipments 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

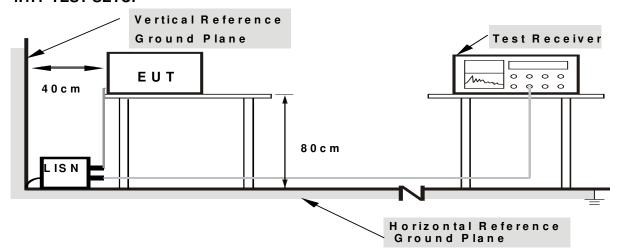
No deviation

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4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V 60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment 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.

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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 meters)		
	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (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

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	

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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 meter above the ground at a 3 meter 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 meter above the ground at a 3 meter 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 0.8 m 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. 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.
- e. 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)
- f. 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)
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

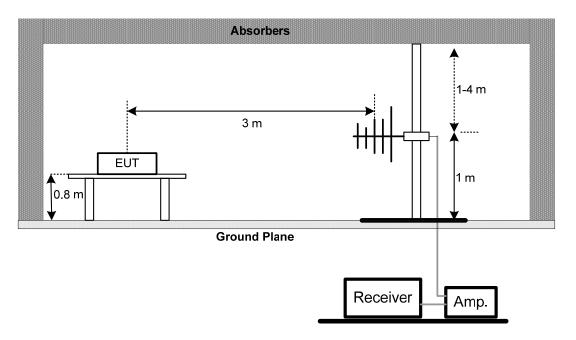
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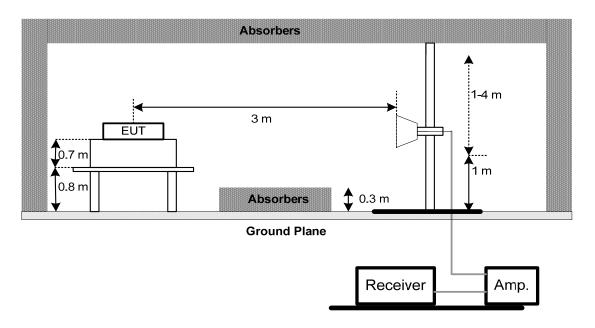


4.2.4 TEST SETUP

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



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

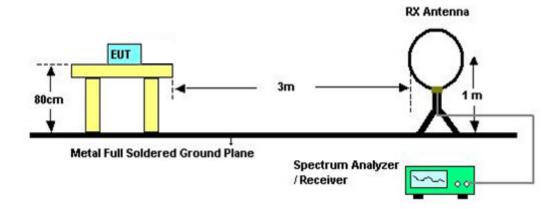


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(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V 60Hz

4.2.7TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment 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.

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4.2.8TEST RESULTS (30MHZ TO 1000 MHZ) Please refer to the Attachment C.

Remark:

- (1) Measuring frequency range from 30MHz to 1000MHz.
- (2) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.2.9TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (2) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (4) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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5. BANDWIDTH TEST

5.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Res				Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V 60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS		

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r05.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 Ower Meter

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V 60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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, provided that the transmitter demonstrates compliance with the peak conducted power limits.

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT OPERATION CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V 60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

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8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V 60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017		
2	LISN	R&S	ENV216	101447	Mar. 27, 2017		
3	Test Cable	emci	RG223(9KHz- 30MHz)	C_17	Mar. 10, 2017		
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017		
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017		
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-0 1	N/A	N/A		

	Radiated Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017		
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016		
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016		
4	Test Cable	emci	LMR-400(30MH z-1GHz)	C-01	Jun. 27, 2017		
5	Control	CT	SC100	N/A	N/A		
6	Position Control	MF	MF-7802	MF780208416	N/A		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
8	Antenna	ETS	3115	00075789	Mar. 27, 2017		
9	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016		
10	Test Cable	emci	EMC104-SM-S M-10000(1GHz -26.5GHz)	C-68	Jun. 27, 2017		
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017		
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017		
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016		

	6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016	

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	Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	power Meter	ANRITSU	ML2495A	1128009	Apr. 26, 2017	
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Apr. 26, 2017	

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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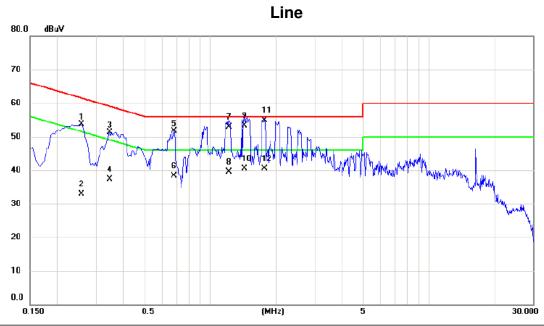
ATTACHMENT A - CONDUCTED EMISSION

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Test Mode: TX Mode



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2580	44.01	9.61	53.62	61.50	-7.88	peak	
2	0.2580	23.30	9.61	32.91	51.50	-18.59	AVG	
3	0.3460	41.76	9.64	51.40	59.06	-7.66	peak	
4	0.3460	27.60	9.64	37.24	49.06	-11.82	AVG	
5	0.6820	41.88	9.73	51.61	56.00	-4.39	peak	
6	0.6820	28.60	9.73	38.33	46.00	-7.67	AVG	
7	1.2180	43.10	9.81	52.91	56.00	-3.09	QP	
8	1.2180	29.60	9.81	39.41	46.00	-6.59	AVG	
9	1.4300	43.50	9.84	53.34	56.00	-2.66	QP	
10	1.4300	30.70	9.84	40.54	46.00	-5.46	AVG	
11 *	1.7740	45.02	9.89	54.91	56.00	-1.09	QP	
12	1.7740	30.60	9.89	40.49	46.00	-5.51	AVG	

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Test Mode: TX Mode **Neutral** 80.0 dBuV 70 60 50 40 30 20 10 0.0 0.150 0.5 (MHz) 5 30.000 Reading Correct Measure-Limit No. Mk. Freq. Margin Level Factor ment MHz dBuV dBuV dBuV dB Detector Comment 1 0.4060 41.37 9.53 50.90 57.73 -6.83 peak 2 0.4060 30.10 9.53 39.63 47.73 -8.10 AVG 3 0.6740 40.90 9.54 50.44 56.00 -5.56 peak 4 0.6740 27.80 9.54 37.34 46.00 -8.66 AVG 0.9500 43.59 9.58 5 53.17 56.00 -2.83 peak 6 0.9500 31.60 9.58 41.18 46.00 -4.82 AVG QΡ 1.2140 42.90 9.62 52.52 56.00 -3.48 -7.28 8 1.2140 29.10 9.62 38.72 46.00 AVG QΡ -2.14 9 1.5020 44.20 9.66 53.86 56.00 -5.54 10 1.5020 30.80 9.66 40.46 46.00 AVG 1.7260 9.68 -3.12 QΡ 11 43.20 52.88 56.00

-9.72

46.00

AVG

1.7260

26.60

9.68

36.28

12





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

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Test Mode: TX Mode

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0135	0°	13.24	24.7117	37.9517	124.9975	-87.0459	AVG
0.0135	0°	14.12	24.7117	38.8317	144.9975	-106.1659	PEAK
0.0277	0°	6.08	23.8123	29.8923	118.7546	-88.8623	AVG
0.0277	0°	8.33	23.8123	32.1423	138.7546	-106.6123	PEAK
0.0349	0°	3.29	23.3563	26.6463	116.7477	-90.1014	AVG
0.0349	0°	5.43	23.3563	28.7863	136.7477	-107.9614	PEAK
0.0512	0°	1.46	22.3760	23.8360	113.4188	-89.5828	AVG
0.0512	0°	2.11	22.3760	24.4860	133.4188	-108.9328	PEAK
0.5792	0°	19.30	20.0534	39.3534	72.3477	-32.9942	QP
1.9884	0°	23.22	19.5012	42.7212	69.5400	-26.8188	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0108	90°	13.51	24.3000	37.8100	126.9357	-89.1257	AVG
0.0108	90°	14.23	24.3000	38.5300	146.9357	-108.4057	PEAK
0.0214	90°	7.42	24.2113	31.6313	120.9959	-89.3646	AVG
0.0214	90°	8.37	24.2113	32.5813	140.9959	-108.4146	PEAK
0.0482	90°	5.72	22.5140	28.2340	113.9433	-85.7093	AVG
0.0482	90°	6.57	22.5140	29.0840	133.9433	-104.8593	PEAK
0.0531	90°	1.20	22.3380	23.5380	113.1023	-89.5643	AVG
0.0531	90°	2.82	22.3380	25.1580	133.1023	-107.9443	PEAK
0.6047	90°	22.06	20.1350	42.1950	71.9734	-29.7784	QP
2.0021	90°	24.31	19.4987	43.8087	69.5400	-25.7313	QP

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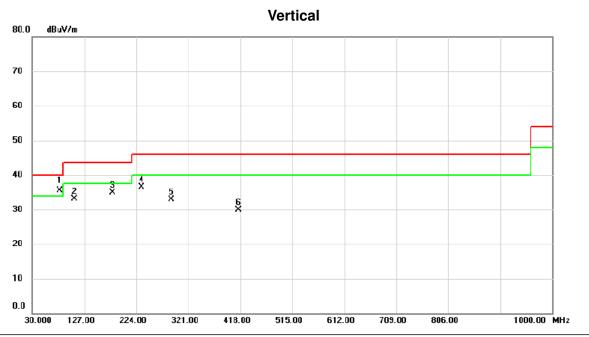
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Report No.: BTL-FCCP-2-1608C213





Test Mode: TX 2402MHz -CH00 -1Mbps



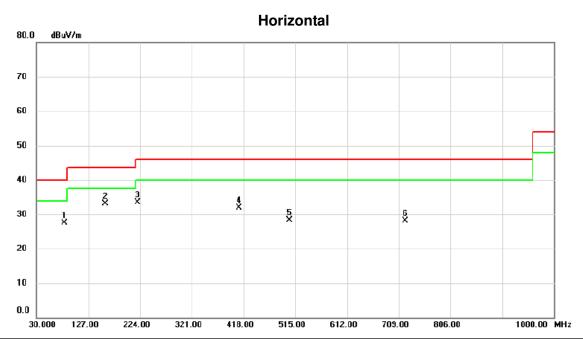
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	81.4100	51.36	-15.76	35.60	40.00	-4.40	QP	
2		107.6000	47.02	-14.01	33.01	43.50	-10.49	peak	
3		179.3800	46.40	-11.45	34.95	43.50	-8.55	peak	
4		233.7000	49.08	-12.63	36.45	46.00	-9.55	peak	
5	:	289.9600	42.67	-9.82	32.85	46.00	-13.15	peak	
6	4	414.1200	36.74	-6.88	29.86	46.00	-16.14	peak	

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Test Mode: TX 2402MHz -CH00 -1Mbps



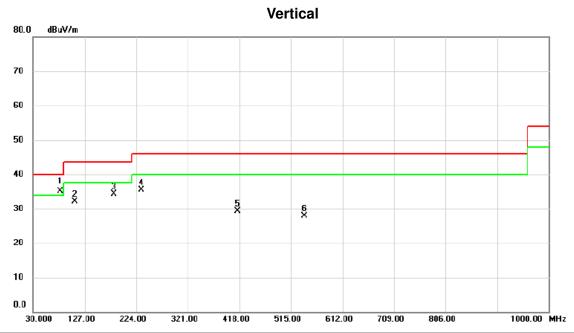
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		82.3800	43.28	-15.80	27.48	40.00	-12.52	peak	
2	*	158.0400	45.16	-12.13	33.03	43.50	-10.47	peak	
3		219.1500	47.01	-13.42	33.59	46.00	-12.41	peak	
4		409.2700	39.01	-7.02	31.99	46.00	-14.01	peak	
5		504.3300	35.43	-7.14	28.29	46.00	-17.71	peak	
6		720.6400	29.52	-1.45	28.07	46.00	-17.93	peak	

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Test Mode: TX 2440MHz -CH19 -1Mbps



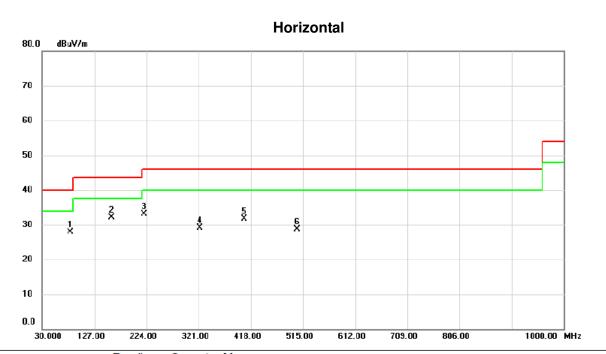
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	81.4100	50.89	-15.76	35.13	40.00	-4.87	QP	
2		107.6000	46.02	-14.01	32.01	43.50	-11.49	peak	
3		182.2900	46.12	-11.82	34.30	43.50	-9.20	peak	
4		233.7000	48.08	-12.63	35.45	46.00	-10.55	peak	
5		414.1200	36.24	-6.88	29.36	46.00	-16.64	peak	
6		540.2200	33.09	-5.17	27.92	46.00	-18.08	peak	

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Test Mode: TX 2440MHz -CH19 -1Mbps



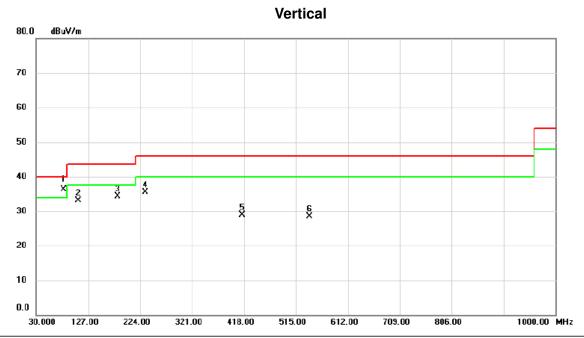
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1		82.3800	43.78	-15.80	27.98	40.00	-12.02	peak	
-	2	*	158.0400	44.16	-12.13	32.03	43.50	-11.47	peak	
-	3		219.1500	46.51	-13.42	33.09	46.00	-12.91	peak	
-	4	;	322.9400	38.88	-9.74	29.14	46.00	-16.86	peak	
-	5	4	405.3900	38.80	-7.12	31.68	46.00	-14.32	peak	
-	6	,	504.3300	35.93	-7.14	28.79	46.00	-17.21	peak	
-										

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Test Mode: TX 2480MHz -CH39 -1Mbps



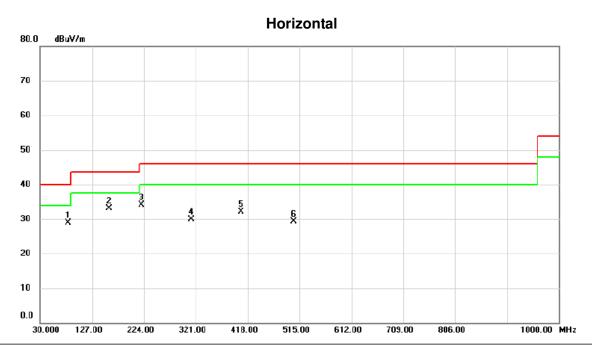
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	81.4100	52.03	-15.76	36.27	40.00	-3.73	QP	
2		107.6000	47.02	-14.01	33.01	43.50	-10.49	peak	
3		182.2900	46.12	-11.82	34.30	43.50	-9.20	peak	
4		233.7000	48.08	-12.63	35.45	46.00	-10.55	peak	
5		414.1200	35.74	-6.88	28.86	46.00	-17.14	peak	
6		540.2200	33.59	-5.17	28.42	46.00	-17.58	peak	

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Test Mode: TX 2480MHz -CH39 -1Mbps



	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
Ī	1		82.3800	44.78	-15.80	28.98	40.00	-11.02	peak	
-	2	*	158.0400	45.16	-12.13	33.03	43.50	-10.47	peak	
Ī	3		219.1500	47.51	-13.42	34.09	46.00	-11.91	peak	
-	4		312.2700	39.52	-9.67	29.85	46.00	-16.15	peak	
-	5		405.3900	39.31	-7.12	32.19	46.00	-13.81	peak	
_	6		504.3300	36.43	-7.14	29.29	46.00	-16.71	peak	
_										

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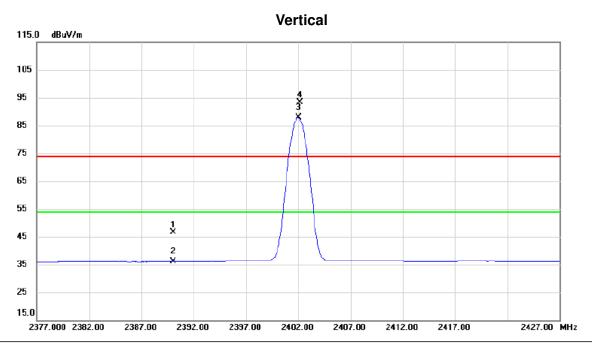
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ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Report No.: BTL-FCCP-2-1608C213





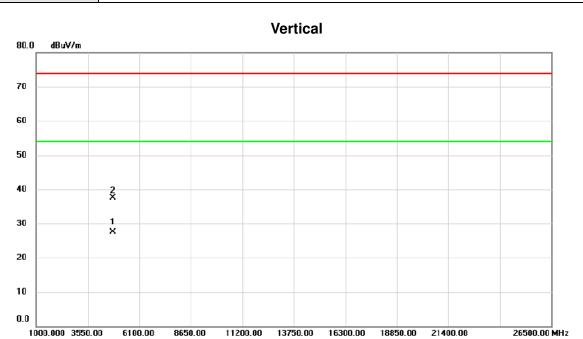


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment		
1		2390.000	12.40	34.23	46.63	74.00	-27.37	peak			
2		2390.000	1.89	34.23	36.12	54.00	-17.88	AVG			
3	*	2402.000	53.62	34.30	87.92	54.00	33.92	AVG	No Limit		
4	Χ	2402.200	59.08	34.30	93.38	74.00	19.38	peak	No Limit		

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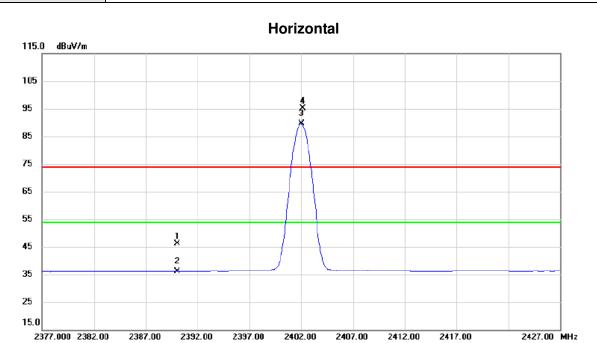


No.	M	k. Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4803.900	24.43	3.00	27.43	54.00	-26.57	AVG	
2		4804.060	34.56	3.00	37.56	74.00	-36.44	peak	

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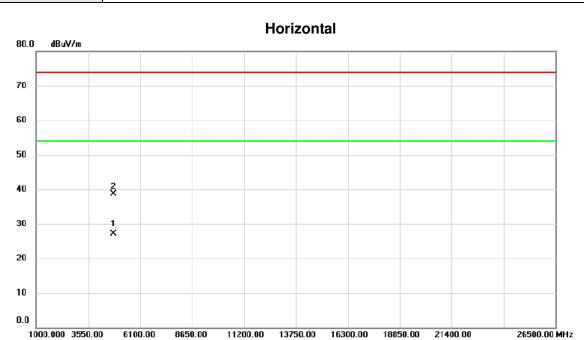


No.	M	k. Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	11.95	34.23	46.18	74.00	-27.82	peak	
2		2390.000	1.90	34.23	36.13	54.00	-17.87	AVG	
3	*	2402.000	55.23	34.30	89.53	54.00	35.53	AVG	No Limit
4	X	2402.200	60.78	34.30	95.08	74.00	21.08	peak	No Limit

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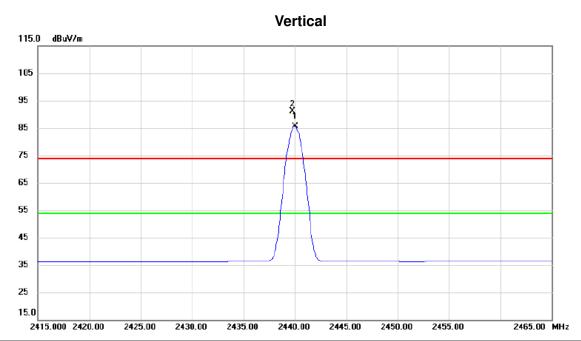


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4803.900			27.15	54.00	-26.85	AVG	
2		4803.980	35.68	3.00	38.68	74.00	-35.32	peak	

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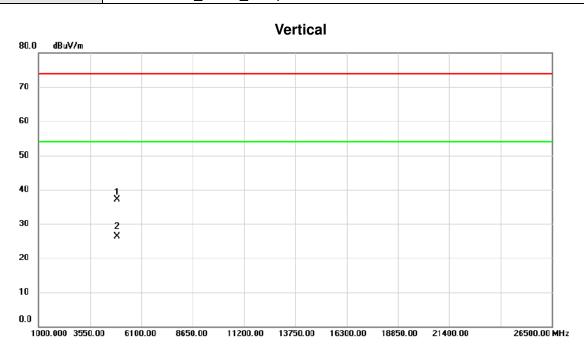


	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1	*	2440.000	51.11	34.52	85.63	54.00	31.63	AVG	No Limit
_	2	X	2439.750	56.66	34.52	91.18	74.00	17.18	peak	No Limit

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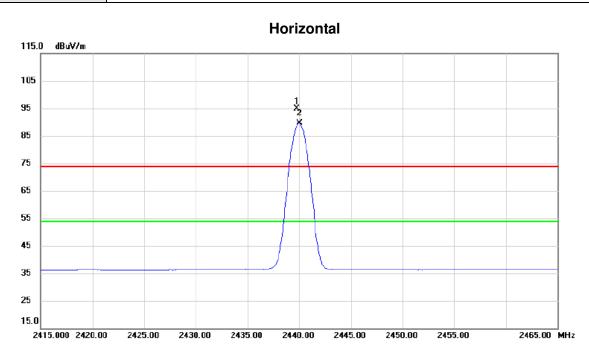


No.	Mi	c. Freq.		Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.040	34.11	3.02	37.13	74.00	-36.87	peak	
2	*	4880.060	23.19	3.02	26.21	54.00	-27.79	AVG	

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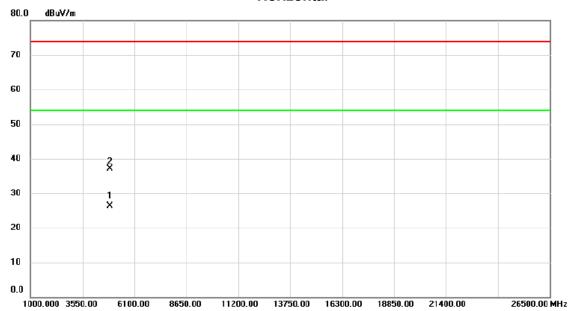
	No.	Mk	. Freq.		Correct Factor	Measure- ment	Limit	Margin			
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1	X	2439.750	60.37	34.52	94.89	74.00	20.89	peak	No Limit	
-	2	*	2440.000	55.05	34.52	89.57	54.00	35.57	AVG	No Limit	

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Horizontal

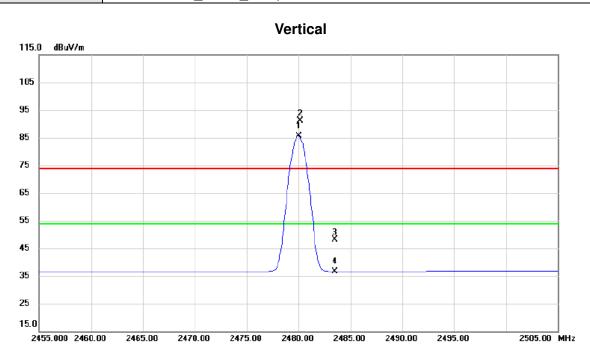


1	No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	4879.800	23.34	3.02	26.36	54.00	-27.64	AVG	
	2		4879.980	34.12	3.02	37.14	74.00	-36.86	peak	

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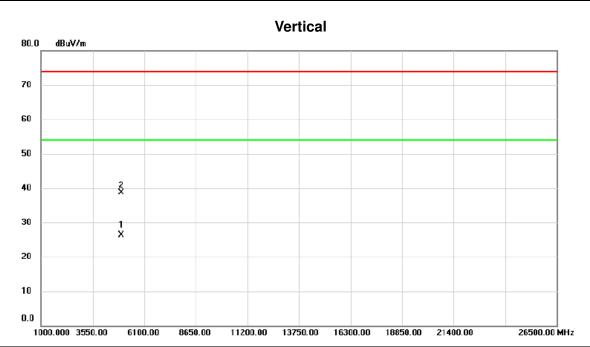


	No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
Ī	1	*	2480.000	50.92	34.75	85.67	54.00	31.67	AVG	No Limit
	2	X	2480.200	56.46	34.75	91.21	74.00	17.21	peak	No Limit
	3		2483.500	13.38	34.78	48.16	74.00	-25.84	peak	
	4		2483.500	1.90	34.78	36.68	54.00	-17.32	AVG	

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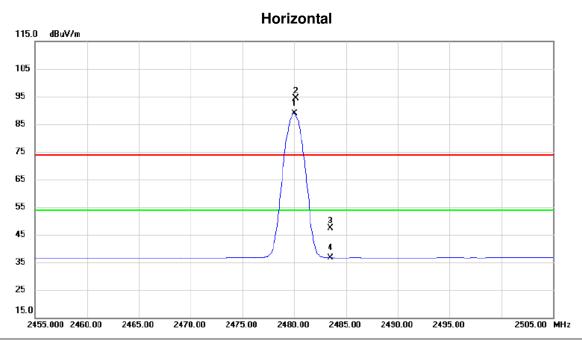


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4959.820	23.16	3.07	26.23	54.00	-27.77	AVG	
2		4960.040	35.60	3.07	38.67	74.00	-35.33	peak	

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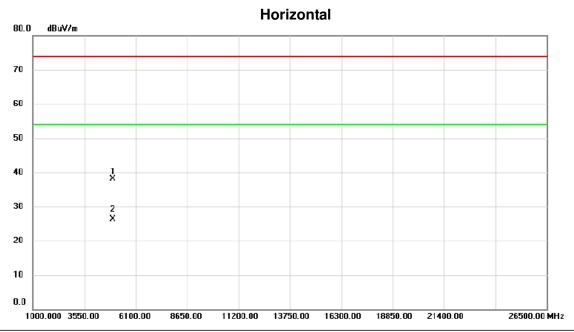


MHz dBuV dB dBuV/m dB Detector Comment	
1 * 2480.000 54.16 34.75 88.91 54.00 34.91 AVG No Limit	
2 X 2480.200 59.67 34.75 94.42 74.00 20.42 peak No Limit	
3 2483.500 12.71 34.78 47.49 74.00 -26.51 peak	
4 2483.500 1.97 34.78 36.75 54.00 -17.25 AVG	

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	No.	Mk	. Freq.			Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1		4959.680	34.94	3.07	38.01	74.00	-35.99	peak	
_	2	*	4960.120	23.32	3.07	26.39	54.00	-27.61	AVG	

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	7
ATTACHMENT E - BANDWIDTH	

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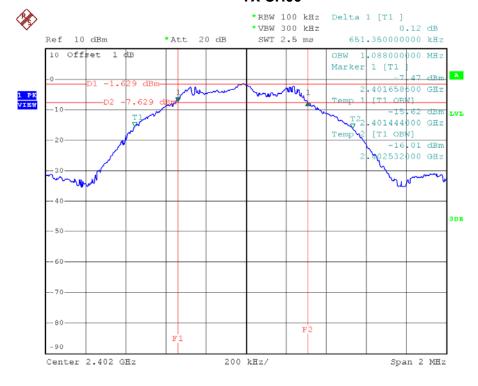




		Test Mode :	CH00, CH19, CH39 - 1Mbp	s
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Frequency	6dB Bandwidth	99% Occupied BW	Min. Limit	Toot Dooult	
(MHz)	(MHz)	(MHz)	(kHz)	Test Result	
2402	0.651	1.088	500	Complies	
2440	0.664	1.084	500	Complies	
2480	0.654	1.084	500	Complies	

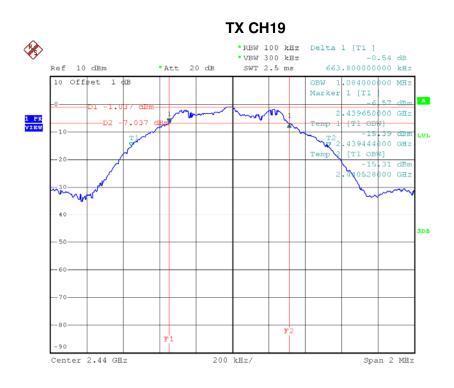
TX CH00

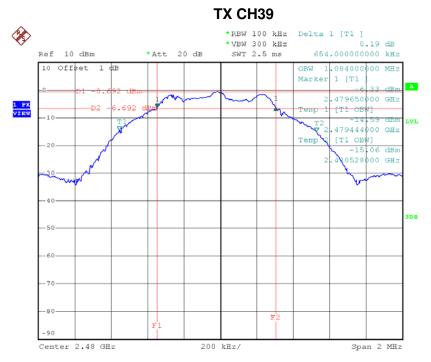


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ATTACHMENT F - MAXIMUM OUTPUT POWER TEST

Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Test Result
(MHz)	Power (dBm)	Power (Watt)	(dBm)	(Watt)	rest Result
2402	-1.54	0.0007	30.00	1.00	Complies
2440	-1.27	0.0007	30.00	1.00	Complies
2480	-1.01	0.0008	30.00	1.00	Complies

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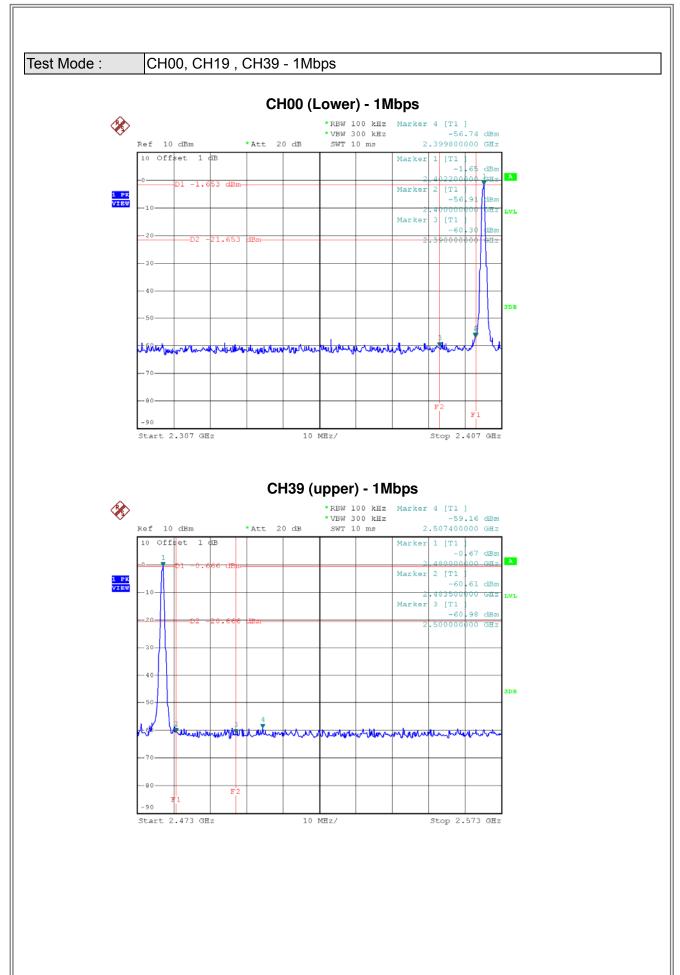


ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

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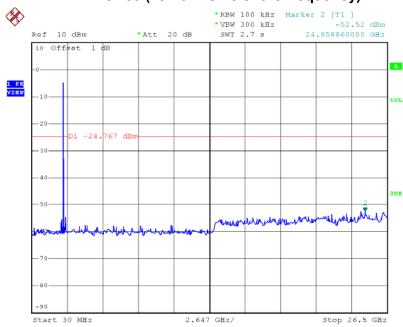


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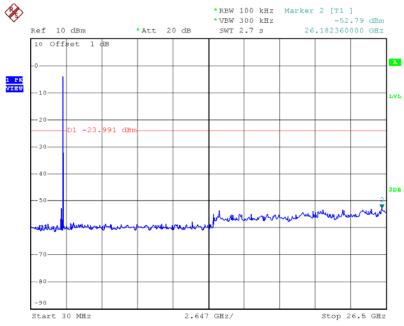








CH19 (10 Harmonic of the frequency)

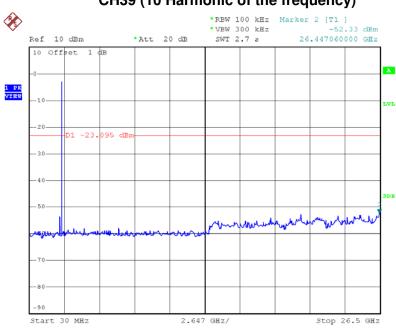


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CH39 (10 Harmonic of the frequency)



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ATTACHMENT H - POWER SPECTRAL DENSITY TEST

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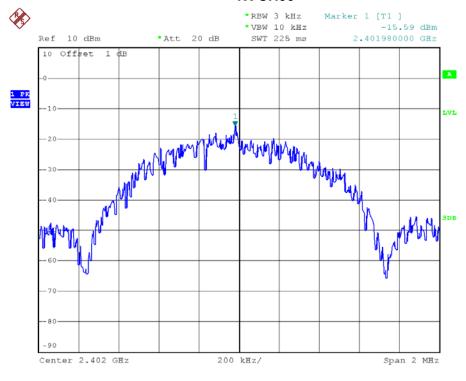




Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm)	Max. Limit (dBm)	Result
2402	-15.59	8	Complies
2440	-15.14	8	Complies
2480	-14.81	8	Complies

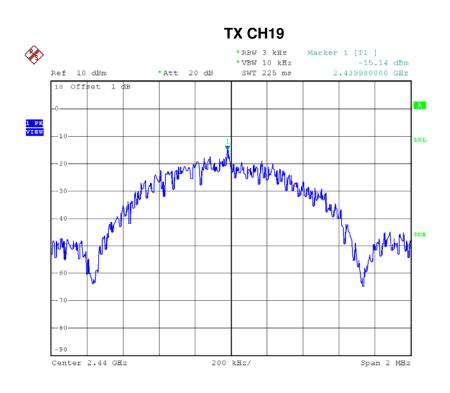
TX CH00

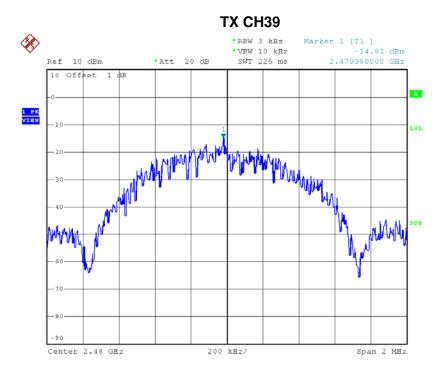


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