



FCC Radio Test Report FCC ID: RWO-RC30025802

This report concerns (check one): ⊠Original Grant □Class II Change

Project No. : 1805C069

Equipment: USB WIRELESS DONGLE

Test Model : RC30-025802 Applicant : Razer Inc.

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

94103,USA

Date of Receipt: May 15, 2018

Date of Test: May 16, 2018 ~ May 30, 2018

Issued Date : Jul. 03, 2018
Tested by : BTL Inc.

Testing Engineer : Chay - Cas

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1805C069	Original Issue.	Jul. 03, 2018

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1. CERTIFICATION

Equipment : USB WIRELESS DONGLE

Brand Name : RAZER
Test Model : RC30-025802
Applicant : Razer Inc.

Manufacturer: Razer (Asia-Pacific) Pte.,Ltd.

Address : 514 Chai Chee Lane #07-01 ~ 06 Singapore 469029

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 : May 16, 2018 ~ May 30, 2018

Test Sample : Engineering Sample NO.: D180503987 for conducted, D180503977 for

radiated.

Standard(s) : FCC Part15, Subpart C (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-1-1805C069) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C				
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)	Conducted Power	PASS		
15.247(e)	Power Spectral Density	PASS		
15.203	Antenna Requirement	PASS		
15.209/15.205	Transmitter Radiated Emissions	PASS		
15.209/15.205	Band Edge 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: 854385 BTL's designation number for FCC: CN5020

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) k=1.96 or k=2(which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y).

The BTL measurement uncertainty as below table:

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	Η	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	Ι	3.78
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	4.10
DG-CB03	,bus Cispr	200MHz ~ 1,000MHz	Ι	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	Ι	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	Ι	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	USB WIRELESS DONGLE		
Brand Name	RAZER		
Test Model	RC30-025802		
Model Difference	The system's model name is RZ04-0 A-Z), and the system contain a Wirel RC30-025801) and USB Wireless Do The X in the system model is used to under the same family series.	ess Gaming Headset (Model: ongle (Model: RC30-025802).	
	Operation Frequency	2405.35 MHz -2477.35 MHz	
Product Description	Modulation Technology	GFSK	
1 Toddot Decomption	Bit Rate of Transmitter	2 Mbps	
	Conducted Power (Max.)	1.00dBm	
Power Source	Supplied from USB port.		
Power Rating	DC 5V 500mA		

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)	Channel	Frequency (MHz)
01	2405.35	14	2431.35	27	2457.35
02	2407.35	15	2433.35	28	2459.35
03	2409.35	16	2435.35	29	2461.35
04	2411.35	17	2437.35	30	2463.35
05	2413.35	18	2439.35	31	2465.35
06	2415.35	19	2441.35	32	2467.35
07	2417.35	20	2443.35	33	2469.35
08	2419.35	21	2445.35	34	2471.35
09	2421.35	22	2447.35	35	2473.35
10	2423.35	23	2449.35	36	2475.35
11	2425.35	24	2451.35	37	2477.35
12	2427.35	25	2453.35		
13	2429.35	26	2455.35		

3. Table for Filed Antenna:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	1.13

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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)

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 1	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.

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

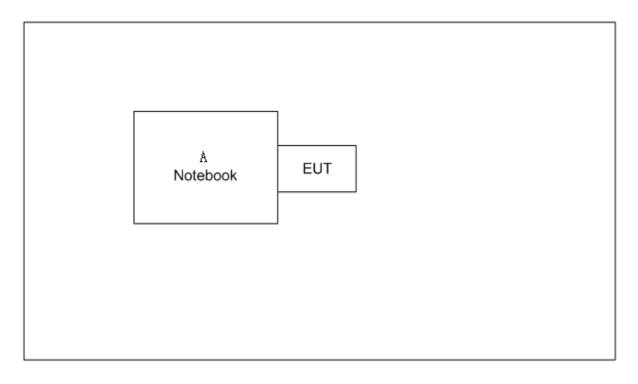
Test Software Version	Avnera_Continue_Power		
Frequency (MHz)	2405.35 2441.35 2477.38		2477.35
Parameters	N/A	N/A	N/A

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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.
Α	Notebook	Lenovo	E40	DOC	EB22953770

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

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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)

Fraguency of Emission (MHz)	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 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

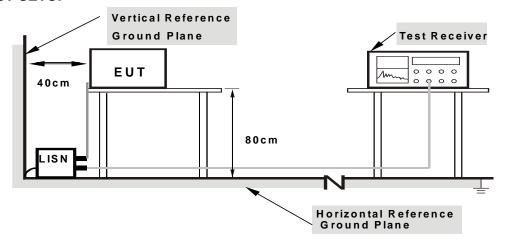
No deviation

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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: 53% 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.

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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)		
Frequency (Miriz)	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 1.5 m, 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

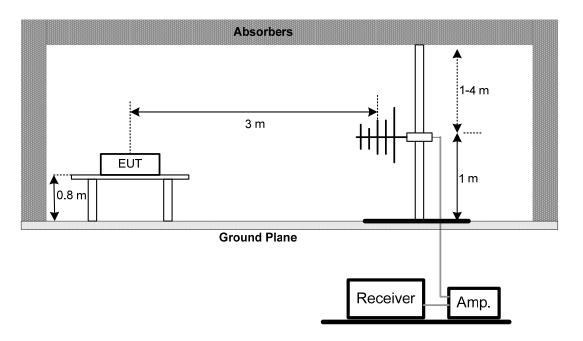
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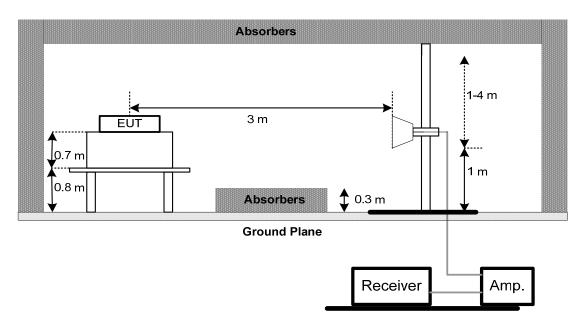


4.2.4 TEST SETUP

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



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



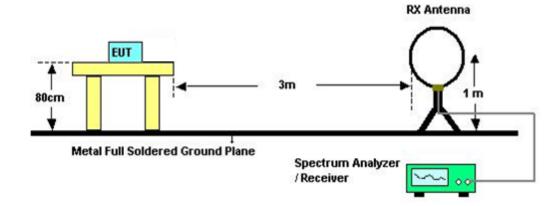
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(C) For radiated emissions below 30MHz



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: 60% Test Voltage: DC 5V

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.

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4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Appendix C.

Remark:

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

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Appendix D.

Remark:

- (1) 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.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (4) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (5) 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
- (6) 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)	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: 60% Test Voltage: DC 5V

5.1.6 TEST RESULTS

Please refer to the Appendix E.

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6. CONDUCTED 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 spectrum analyzer and antenna output port as show in the block diagram below,
- b. The maximum 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		SPECTRUM
		ANALYZER

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: 60% Test Voltage: DC 5V

6.1.6 TEST RESULTS

Please refer to the Appendix 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 = auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



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: 60% Test Voltage: DC 5V

7.1.6 TEST RESULTS

Please refer to the Appendix 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: 60% Test Voltage: DC 5V

8.1.6 TEST RESULTS

Please refer to the Appendix H.

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9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019			
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019			
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019			
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019			
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			
6	Cable	N/A	RG223	12m	Oct. 19, 2018			

	Radiated Emission Measurement - Below 1GHz							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019			
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018			
3	Receiver	eceiver Agilent N9038A MY		MY52130039	Aug. 20, 2018			
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018			
5	Controller	CT	SC100	N/A	N/A			
6	Controller	MF	MF-7802	MF780208416	N/A			
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01 N/A		N/A			
8	Antenna	EM	EM-6876-1	230	Feb. 07, 2019			

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	Radiated Emission Measurement - Above 1GHz							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019			
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018			
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019			
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019			
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018			
6	Controller	СТ	SC100	N/A	N/A			
7	Controller	MF	MF-7802	MF780208416	N/A			
8	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018			
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			

	6dB Bandwidth Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018		

	Conducted Output Power Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018		

	Antenna Conducted Spurious Emission Measurement							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018			

	Power Spectral Density Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018		

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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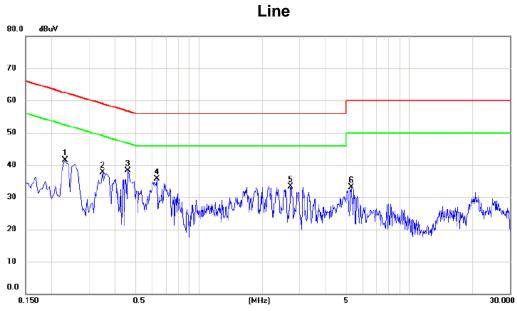


	T
APPENDIX A - CONDUCTED EMISSION	

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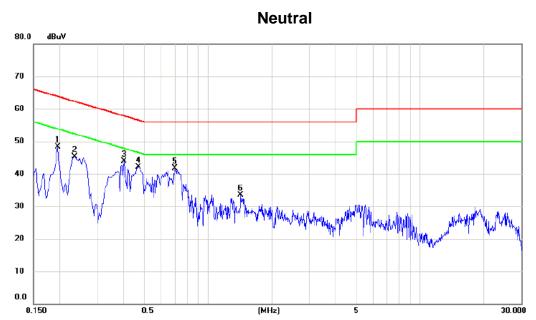


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2310	31.76	9.82	41.58	62.41	-20.83	peak	
2	0.3480	27.94	9.81	37.75	59.01	-21.26	peak	
3 *	0.4605	28.49	9.80	38.29	56.68	-18.39	peak	
4	0.6315	25.92	9.84	35.76	56.00	-20.24	peak	
5	2.7285	23.24	10.03	33.27	56.00	-22.73	peak	
6	5.2845	22.82	10.21	33.03	60.00	-26.97	peak	

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No. M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1950	38.34	9.91	48.25	63.82	-15.57	peak	
2		0.2355	35.32	9.91	45.23	62.25	-17.02	peak	
3 *		0.4020	33.96	9.95	43.91	57.81	-13.90	peak	
4		0.4695	32.24	9.95	42.19	56.52	-14.33	peak	
5		0.6990	31.59	10.04	41.63	56.00	-14.37	peak	
6		1.4280	23.30	10.15	33.45	56.00	-22.55	peak	

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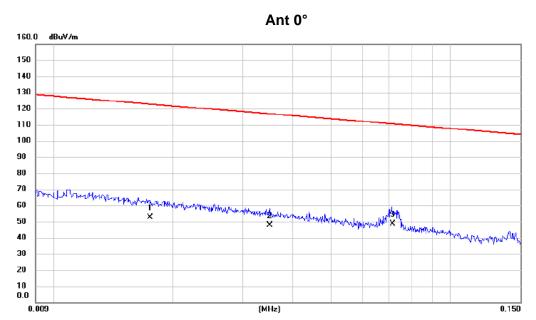


APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)

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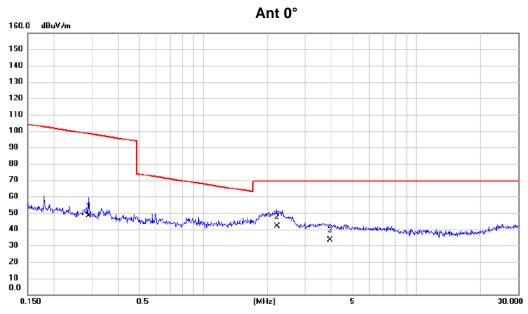


No. Mk.	Freq.		Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0175	32.50	19.95	52.45	122.74	-70.29	AVG	
2	0.0350	28.60	19.17	47.77	116.72	-68.95	AVG	
3 *	0.0714	30.40	18.30	48.70	110.53	-61.83	AVG	

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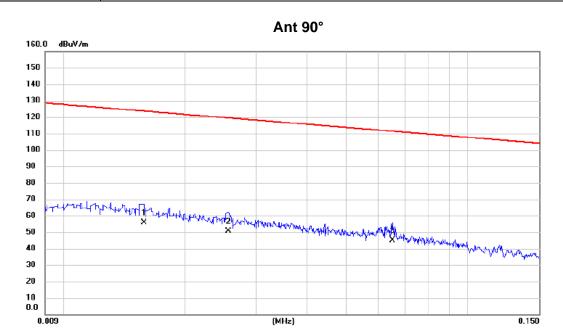


No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2910	31.70	16.63	48.33	98.33	-50.00	AVG	
2 *	2.2132	26.20	15.45	41.65	69.54	-27.89	QP	
3	3.9222	18.60	14.97	33.57	69.54	-35.97	QP	

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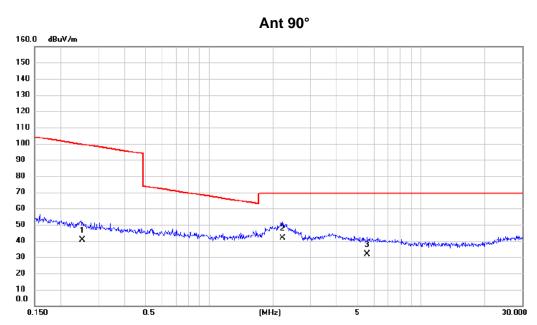


No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0158	35.60	20.17	55.77	123.63	-67.86	AVG	
2	0.0256	31.20	19.45	50.65	119.44	-68.79	AVG	
3 *	0.0651	26.40	18.43	44.83	111.33	-66.50	AVG	

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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2521	23.80	16.66	40.46	99.57	-59.11	AVG	
2 *	2.2132	26.30	15.45	41.75	69.54	-27.79	QP	
3	5.5641	17.70	14.30	32.00	69.54	-37.54	QP	

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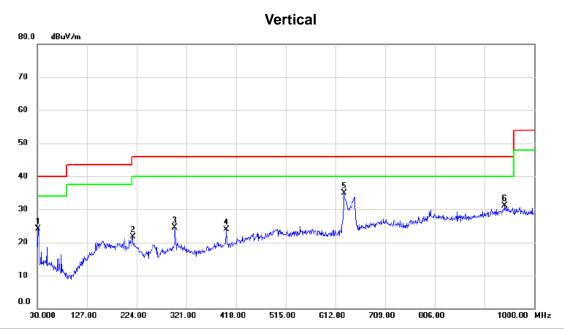
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

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Test Mode: TX 2405.35MHz



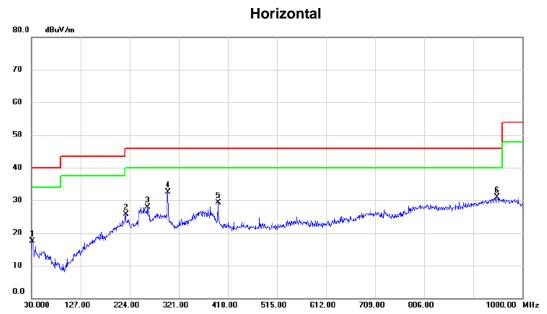
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	31.940	39.53	-15.40	24.13	40.00	-15.87	peak	
2	216.240	37.35	-15.72	21.63	46.00	-24.37	peak	
3	298.690	35.65	-11.20	24.45	46.00	-21.55	peak	
4	399.570	33.95	-10.10	23.85	46.00	-22.15	peak	
5 *	629.460	41.30	-6.31	34.99	46.00	-11.01	peak	
6	942.770	30.46	0.63	31.09	46.00	-14.91	peak	

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Test Mode: TX 2405.35MHz



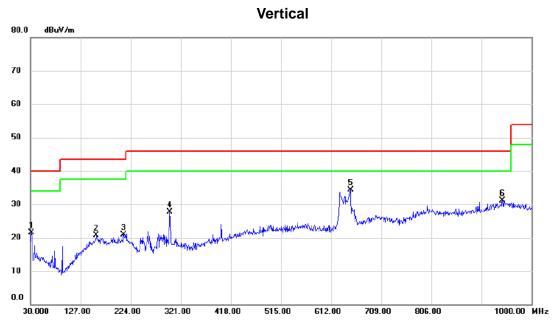
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	31.940	32.93	-15.40	17.53	40.00	-22.47	peak	
2	216.240	41.43	-15.72	25.71	46.00	-20.29	peak	
3	259.890	42.24	-14.26	27.98	46.00	-18.02	peak	
4 *	299.660	43.64	-11.14	32.50	46.00	-13.50	peak	
5	398.600	39.45	-10.15	29.30	46.00	-16.70	peak	
6	949.560	30.02	0.91	30.93	46.00	-15.07	peak	

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Test Mode: TX 2441.35MHz



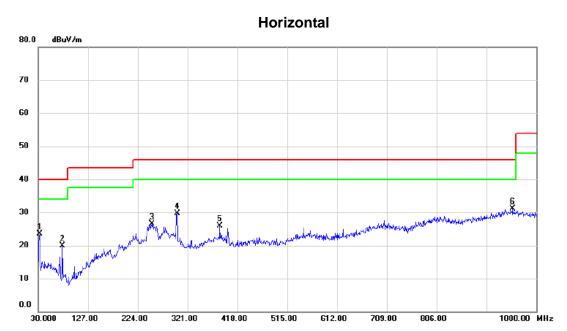
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	31.940	36.81	-15.40	21.41	40.00	-18.59	peak	
2	157.070	32.20	-11.55	20.65	43.50	-22.85	peak	
3	210.420	36.84	-15.95	20.89	43.50	-22.61	peak	
4	299.660	38.75	-11.14	27.61	46.00	-18.39	peak	
5 *	649.830	40.16	-5.84	34.32	46.00	-11.68	peak	
6	943.740	30.44	0.67	31.11	46.00	-14.89	peak	

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Test Mode: TX 2441.35MHz



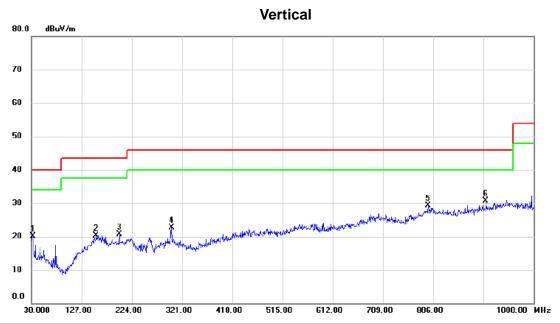
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	32.910	38.84	-15.30	23.54	40.00	-16.46	peak	
2	77.530	38.99	-19.04	19.95	40.00	-20.05	peak	
3	252.130	41.37	-14.86	26.51	46.00	-19.49	peak	
4	300.630	40.74	-11.13	29.61	46.00	-16.39	peak	
5	384.050	36.49	-10.64	25.85	46.00	-20.15	peak	
6 *	954.410	30.27	0.83	31.10	46.00	-14.90	peak	

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Test Mode: TX 2477.35MHz



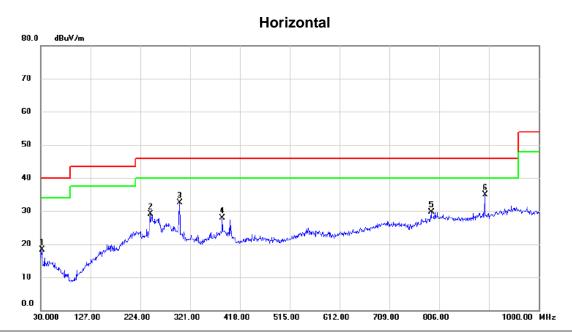
No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	32.910	35.40	-15.30	20.10	40.00	-19.90	peak	
2	155.130	32.09	-11.72	20.37	43.50	-23.13	peak	
3	199.750	36.55	-15.92	20.63	43.50	-22.87	peak	
4	300.630	33.91	-11.13	22.78	46.00	-23.22	peak	
5	796.300	31.16	-1.85	29.31	46.00	-16.69	peak	
6 *	907.850	31.48	-0.80	30.68	46.00	-15.32	peak	

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Test Mode: TX 2477.35MHz



No. MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	32.910	33.67	-15.30	18.37	40.00	-21.63	peak	
2	243.400	44.31	-15.29	29.02	46.00	-16.98	peak	
3	300.630	43.57	-11.13	32.44	46.00	-13.56	peak	
4	384.050	38.62	-10.64	27.98	46.00	-18.02	peak	
5	790.480	31.98	-2.19	29.79	46.00	-16.21	peak	
6 *	895.240	36.21	-1.24	34.97	46.00	-11.03	peak	

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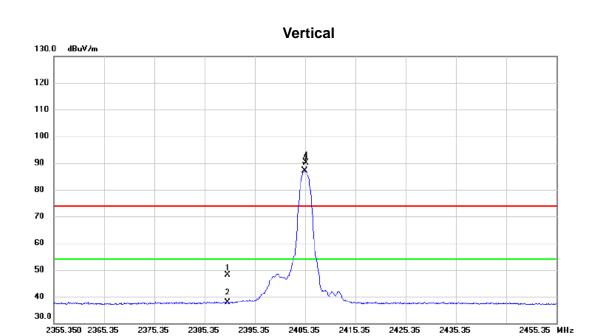


APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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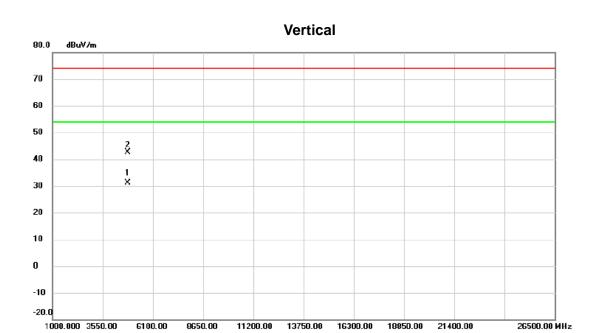


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	39.01	9.00	48.01	74.00	-25.99	peak	
2		2390.000	28.80	9.00	37.80	54.00	-16.20	AVG	
3	*	2405.250	78.09	9.00	87.09	54.00	33.09	AVG	No Limit
4	X	2405.550	81.19	9.00	90.19	74.00	16.19	peak	No Limit

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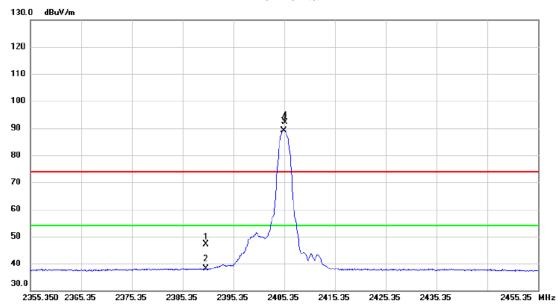
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4811.085	25.43	5.75	31.18	54.00	-22.82	AVG	
2		4812.180	36.88	5.75	42.63	74.00	-31.37	peak	

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Horizontal

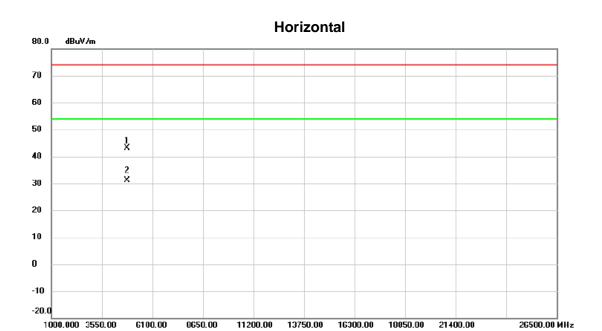


1	No. MI	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	2390.000	38.04	9.00	47.04	74.00	-26.96	peak	
	2	2390.000	29.03	9.00	38.03	54.00	-15.97	AVG	
	3 *	2405.250	80.08	9.00	89.08	54.00	35.08	AVG	No Limit
	4 X	2405.550	83.18	9.00	92.18	74.00	18.18	peak	No Limit

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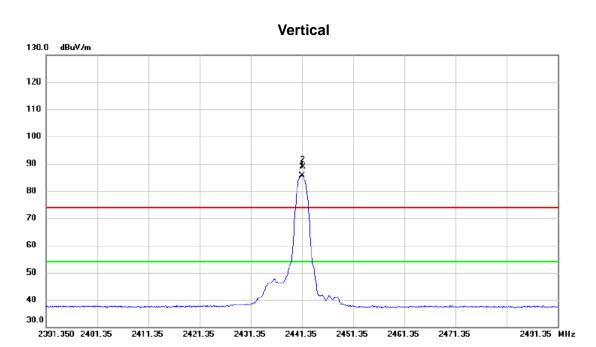


No.	Mk.	. Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4809.195	37.33	5.75	43.08	74.00	-30.92	peak	
2	*	4812.930	25.46	5.75	31.21	54.00	-22.79	AVG	

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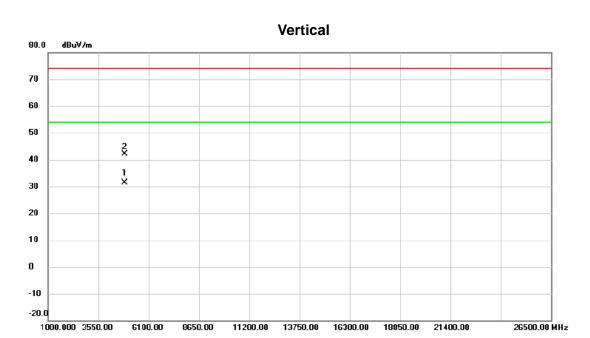


No.	Mk	. Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2441.450	76.58	8.99	85.57	54.00	31.57	AVG	No Limit
2	X	2441.550	79.82	8.99	88.81	74.00	14.81	peak	No Limit

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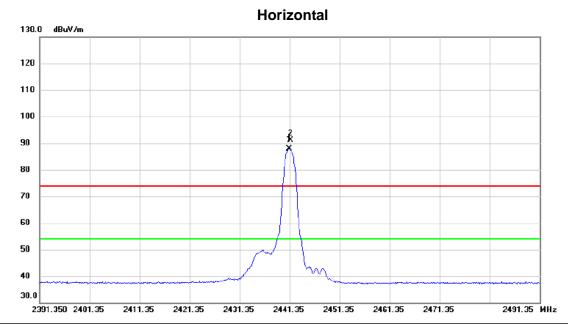


No.	Mk.	Freq.			Measure- ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4878.270	25.53	5.92	31.45	54.00	-22.55	AVG	
2		4882.390	36.13	5.93	42.06	74.00	-31.94	peak	

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	No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1	*	2441.250	78.88	8.99	87.87	54.00	33.87	AVG	No Limit
_	2	X	2441.550	82.05	8.99	91.04	74.00	17.04	peak	No Limit

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1000.000 3550.00

6100.00

8650.00

11200.00

No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	488	1.530	25.40	5.93	31.33	54.00	-22.67	AVG	
2		487	9.650	35.24	5.92	41.16	74.00	-32.84	peak	

13750.00 16300.00

18850.00

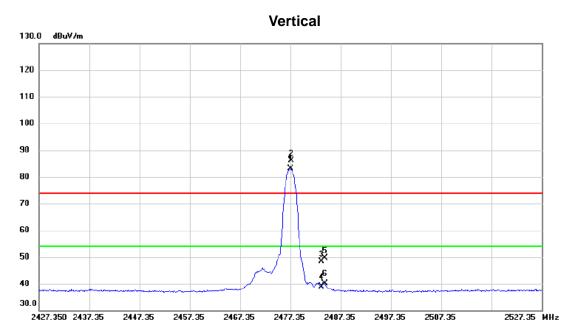
21400.00

26500.00 MHz

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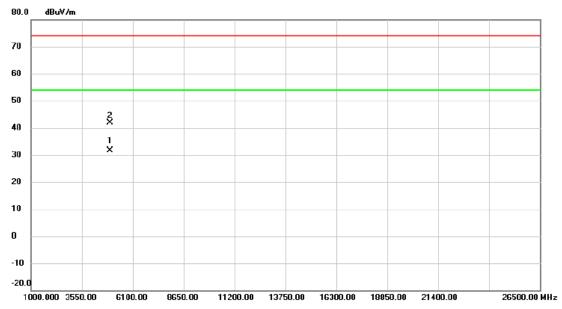
No. M	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2	477.450	74.09	8.97	83.06	54.00	29.06	AVG	No Limit
2 X	2	477.550	77.25	8.97	86.22	74.00	12.22	peak	No Limit
3	2	483.500	39.30	8.96	48.26	74.00	-25.74	peak	
4	2	483.500	29.90	8.96	38.86	54.00	-15.14	AVG	
5	2	484.150	40.77	8.96	49.73	74.00	-24.27	peak	
6	2	484.150	31.08	8.96	40.04	54.00	-13.96	AVG	

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Vertical



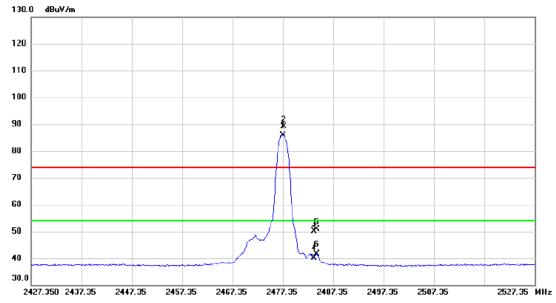
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4952.600	25.45	6.10	31.55	54.00	-22.45	AVG	
2		4953.310	35.71	6.11	41.82	74.00	-32.18	peak	

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Horizontal



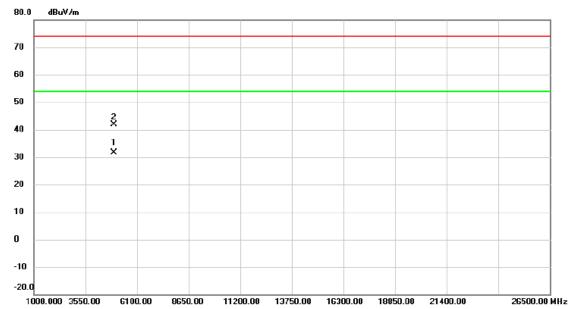
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	2477.450	77.02	8.97	85.99	54.00	31.99	AVG	No Limit
	2	X :	2477.550	80.19	8.97	89.16	74.00	15.16	peak	No Limit
-	3		2483.500	41.07	8.96	50.03	74.00	-23.97	peak	
-	4	:	2483.500	31.26	8.96	40.22	54.00	-13.78	AVG	
	5	- :	2484.050	41.83	8.96	50.79	74.00	-23.21	peak	
_	6		2484.050	32.63	8.96	41.59	54.00	-12.41	AVG	
-										

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Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4950.300	25.61	6.10	31.71	54.00	-22.29	AVG	
2		4958.760	35.69	6.13	41.82	74.00	-32.18	peak	

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APPENDIX E - BANDWIDTH	

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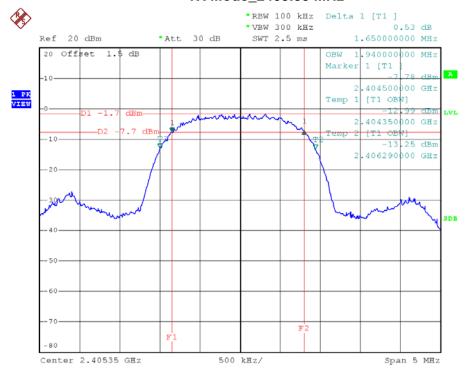




Test Mode: TX Mode

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2405.35	1.65	1.94	500	Complies
2441.35	1.61	1.94	500	Complies
2477.35	1.62	1.94	500	Complies

TX Mode_2405.35 MHz

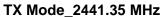


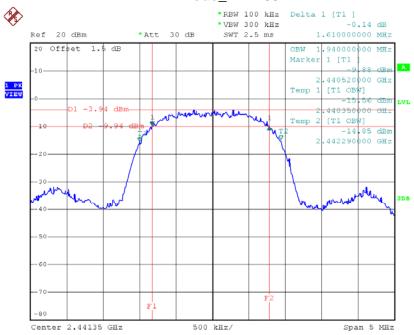
Date: 22.MAY.2018 17:24:51

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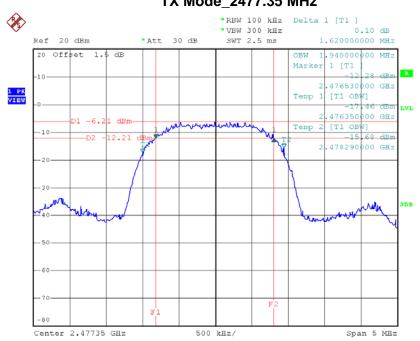






Date: 22.MAY.2018 17:28:53

TX Mode_2477.35 MHz



Date: 22.MAY.2018 17:30:33

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APPENDIX F - CONDUCTED POWER TEST

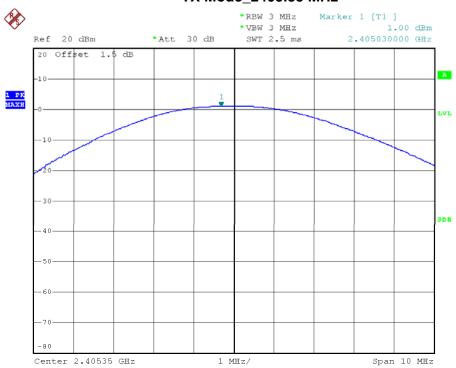
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Test Mode								
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result			
(MHz)	Power (dBm) Power (W)		(dBm)	(W)	Result			
2405.35	1.00	0.0013	30.00	1.00	Complies			
2441.35	-0.88	0.0008	30.00	1.00	Complies			
2477.35	-2.67	0.0005	30.00	1.00	Complies			

TX Mode_2405.35 MHz

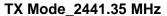


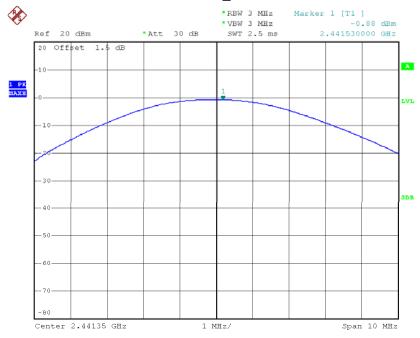
Date: 22.MAY.2018 17:34:29

Report No.: BTL-FCCP-1-1805C069









Date: 22.MAY.2018 17:33:56

TX Mode_2477.35 MHz



Date: 22.MAY.2018 17:32:20

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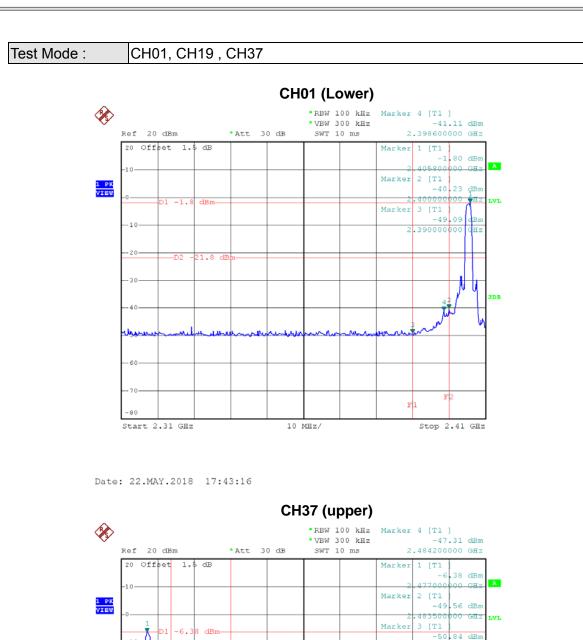


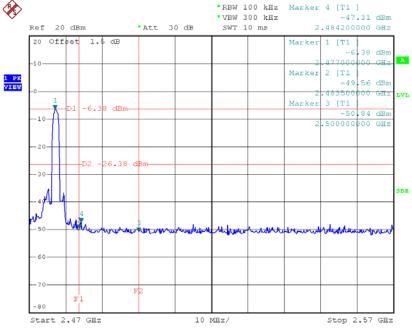
APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

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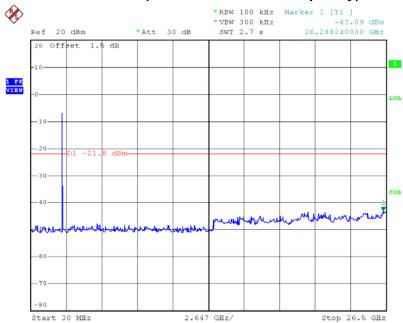


Date: 22.MAY.2018 17:49:17



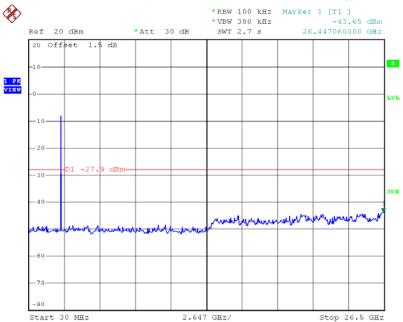






Date: 22.MAY.2018 17:44:43

CH19 (10 Harmonic of the frequency)



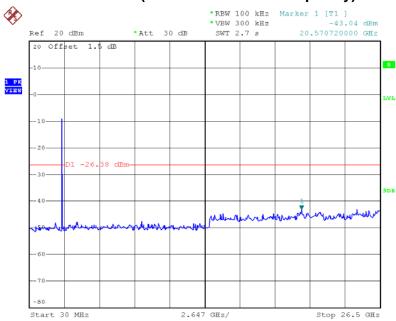
Date: 22.MAY.2018 18:49:34

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CH37 (10 Harmonic of the frequency)



Date: 22.MAY.2018 17:51:48

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APPENDIX H - POWER SPECTRAL DENSITY TEST	

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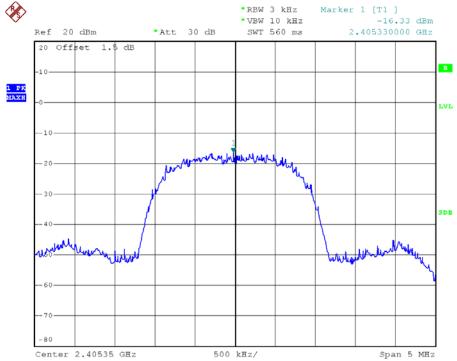




Test Mode: TX Mode

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2405.35	-16.33	0.0233	8.00	Complies
2441.35	-18.36	0.0146	8.00	Complies
2477.35	-20.80	0.0083	8.00	Complies

TX CH01

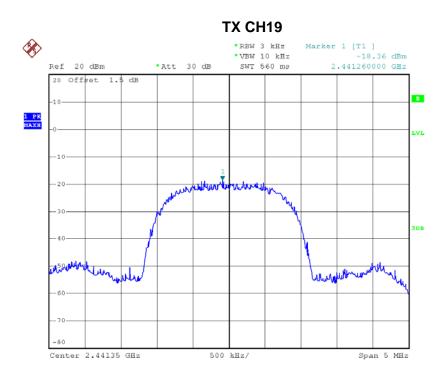


Date: 22.MAY.2018 17:35:18

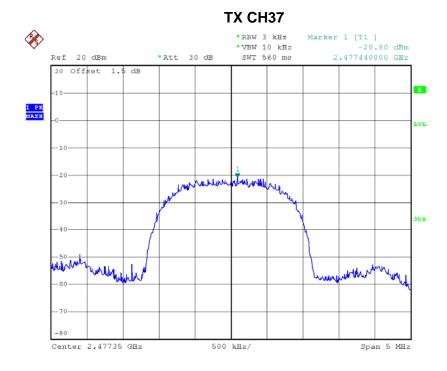
Report No.: BTL-FCCP-1-1805C069







Date: 22.MAY.2018 17:33:30



Date: 22.MAY.2018 17:32:40