



FCC&ISED Radio Test Report
FCC ID: 2AO2D-YKF429-004
IC: 23681-YKF429004
This report concerns (check one): ⊠Original Grant
Project No.: 1803C261Equipment: Bluetooth Remote ControlTest Model: YKF429-004Series Model: N/AApplicant: Fengmi(Beijing)Technology Co.,LtdAddress: 301, 3F, Building 3 No. 10, Shunyi District Renhe Town Barracks South Street, Beijing, China
Date of Receipt   : Mar. 26, 2018     Date of Test   : Mar. 28, 2018 ~ May 10, 2018     Issued Date   : May 29, 2018     Tested by   : BTL Inc.
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Report No.: BTL-FICP-1-1803C261



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#### Limitation

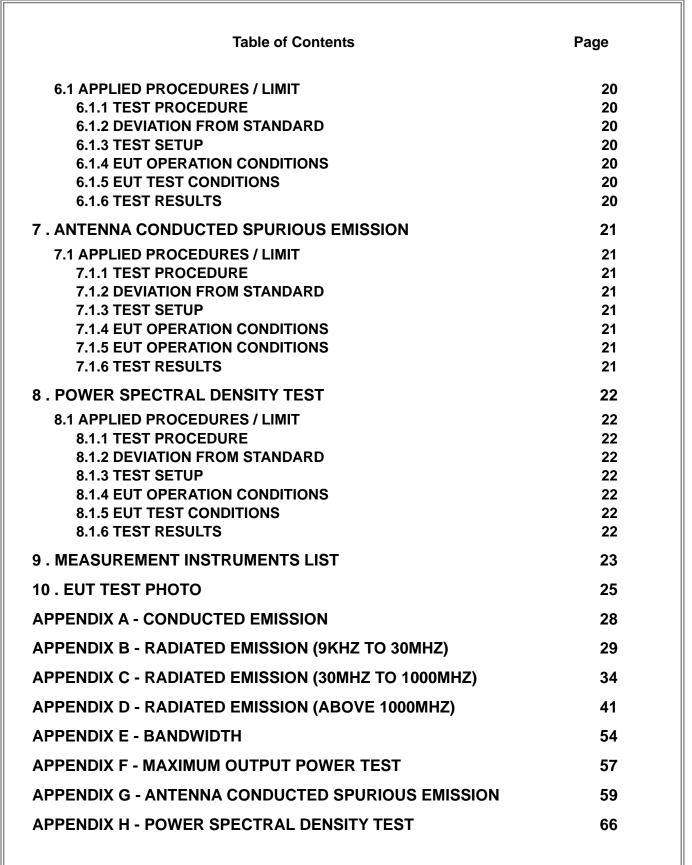
For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.



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## **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FICP-1-1803C261	Original Issue.	May 22, 2018
MDG1805049	Update the applicant name.	May 29, 2018





## **1. CERTIFICATION**

	: Bluetooth Remote Control
Brand Name	: N/A
Test Model	: YKF429-004
Series Model	: N/A
	: Fengmi(Beijing)Technology Co.,Ltd
Date of Test	: Mar. 28, 2018 ~ May 10, 2018
Test Sample	Engineering Sample
Standard(s)	FCC Part15, Subpart C (15.247) / ANSI C63.10-2013
	RSS-247 Issue 2, Feb. 2017
	RSS-GEN Issue 4, Nov. 2014

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-FICP-1-1803C261) 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).



## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

#### Applied Standard(s): FCC Part15 (15.247) , Subpart C Canada RSS-247 Issue 2, Feb. 2017, RSS-GEN Issue 4, Nov. 2014

Standard(	s) Section	Test Item	Judgment	Remark
FCC	IC			
15.207	RSS-GEN 8.8	Conducted Emission	N/A	
15.247(d)	RSS-247 5.5	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	RSS-247 5.2 (a)	6dB Bandwidth	PASS	
15.247(b)(3)	RSS-247 5.4 (d)	Peak Output Power	PASS	
15.247(e)	RSS-247 5.2 (b)	Power Spectral Density	PASS	
15.203	-	Antenna Requirement	PASS	
15.247(d)/ 15.205/ 15.209	RSS-247 5.5	Transmitter Radiated Emissions	PASS	

NOTE:

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



#### 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 BTL's test firm number for IC: 4428B-1

#### 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:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9KHz~30MHz	V	3.79
		9KHz~30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	Н	3.78
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	4.10
DG-CB03	CISEN	200MHz ~ 1,000MHz	Н	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	H	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	Н	4.14

A. Radiated Measurement:

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



## **3. GENERAL INFORMATION**

## 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Bluetooth Remote Control	
Brand Name	N/A	
Test Model	YKF429-004	
Series Model	N/A	
Model Difference	N/A	
Product Description	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK(1Mbps)
	Bit Rate of Transmitter	
	Output Power (Max.)	-0.88 dBm (1Mbps)
Power Source	Battery supplied.	
Power Rating	2.4V ~ 3.3V	

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	Channel	Frequency
Channel	(MHz)	Channel	(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:

An	. Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	1.5



## **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 <b>NOTE (1)</b>

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

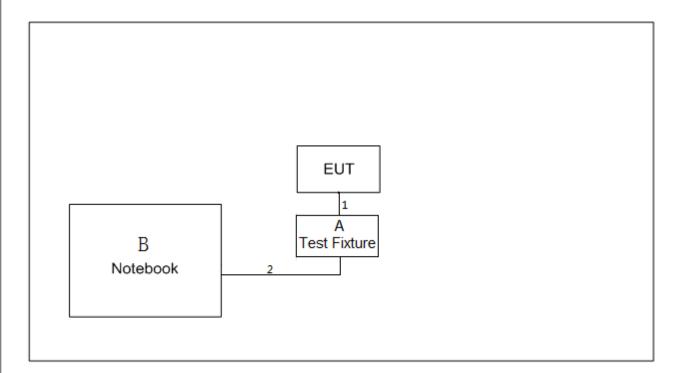
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Test Software Version	IPOP		
Frequency (MHz)	2402 2440 2480		2480
BT LE	N/A	N/A	N/A





#### 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.
А	Test Fixture	N/A	N/A	N/A	N/A
В	Notebook	Dell	DCSM	DOC	G7K832X

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	5cm	Data Cable
2	NO	NO	1.2m	Data Cable



## 4. EMC EMISSION TEST

#### 4.1 CONDUCTED EMISSION MEASUREMENT

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

	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	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

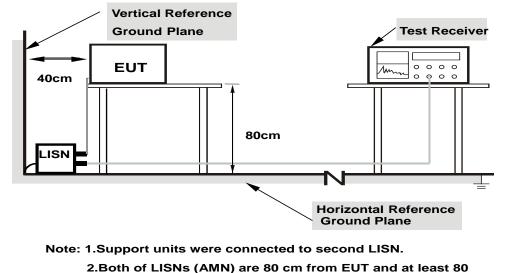
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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



#### 4.1.4 TEST SETUP



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: 24°C Relative Humidity: 60% Test Voltage: N/A

#### 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.



#### 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) and RSS-247 5.5, then the 15.209(a) and RSS-Gen 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 and RSS-247.
- (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

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 0.8m 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

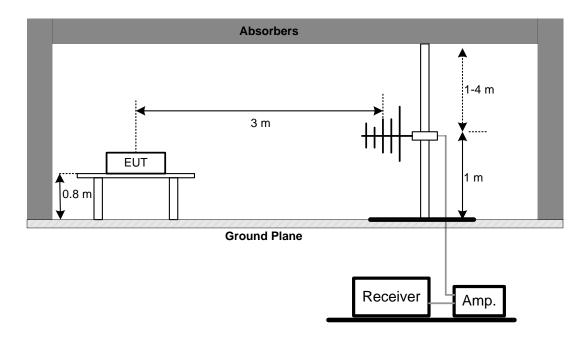
No deviation



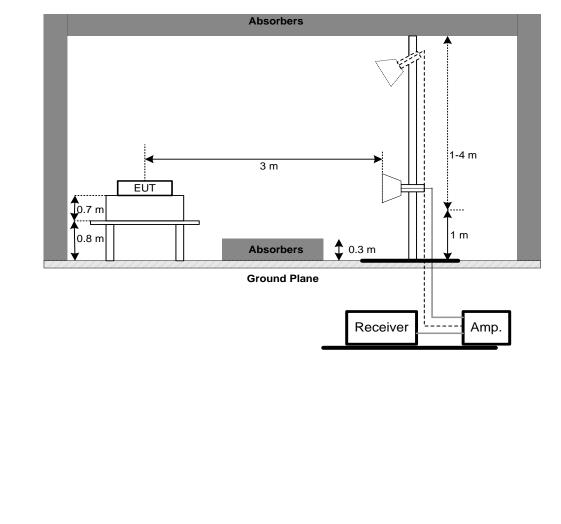


## 4.2.4 TEST SETUP

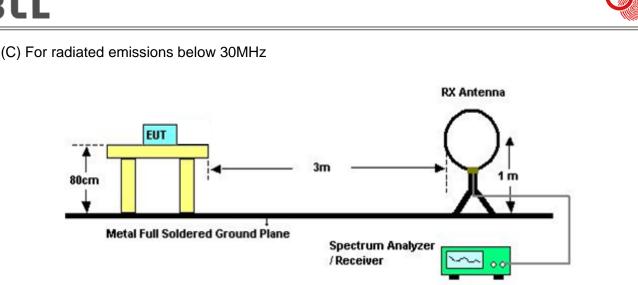
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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







#### 4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.2.6 EUT TEST CONDITIONS

Temperature: 22°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

#### 4.2.7TEST 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.

#### 4.2.8TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix C.

#### 4.2.9TEST RESULTS (ABOVE 1000MHZ)

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.



## 5. BANDWIDTH TEST

#### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C / RSS-247					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(a)(2) RSS-GEN section 6.6 RSS-247 5.2 (a)	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



#### 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: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

#### 5.1.6 TEST RESULTS

Please refer to the Appendix E.



## 6. MAXIMUM OUTPUT POWER TEST

#### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C / RSS-247				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3) RSS-247 5.4 (d)	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 v04 DTS Meas Guidance.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 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: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

#### 6.1.6 TEST RESULTS

Please refer to the Appendix F.



## 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



#### 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: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

#### 7.1.6 TEST RESULTS

Please refer to the Appendix G.



## 8. POWER SPECTRAL DENSITY TEST

#### 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C / RSS-247					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(e) RSS-247 5.2 (b)	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: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

#### 8.1.6 TEST RESULTS

Please refer to the Appendix H.

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## 9. MEASUREMENT INSTRUMENTS LIST

	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			N9038A MY52130039		Aug. 20, 2018				
4			LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018				
5	Controller	СТ	SC100	N/A	N/A				
6	Controller	roller MF MF		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					

	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	8 Cable emci		EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018					
9	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		

	Peak Output Power Measurement							
Item	Kind of Equipment	Serial No.	Calibrated until					
1	Power Meter ANRITSU   Pulse Power ANRITSU   Sensor ANRITSU		ML2495A	1128009	Mar. 11, 2019			
2			MA 2411B	1027500	Mar. 11, 2019			

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

Power Spectral Density Measurement						
Item	Kind of Equipment	of Equipment Manufacturer Type No. Se		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.





## **10. EUT TEST PHOTO**

## **Radiated Measurement Photos**

9KHz to 30MHz





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## **Radiated Measurement Photos**

30MHz to 1000MHz



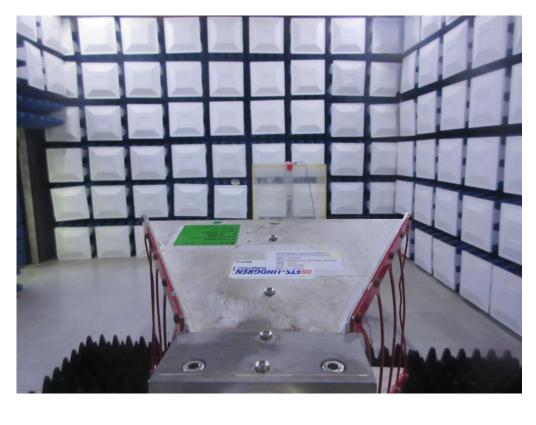


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## **Radiated Measurement Photos**

Above 1000MHz









# **APPENDIX A - CONDUCTED EMISSION**

## Test Mode: N/A

Note: "N/A" denotes test is not applicable to this device.

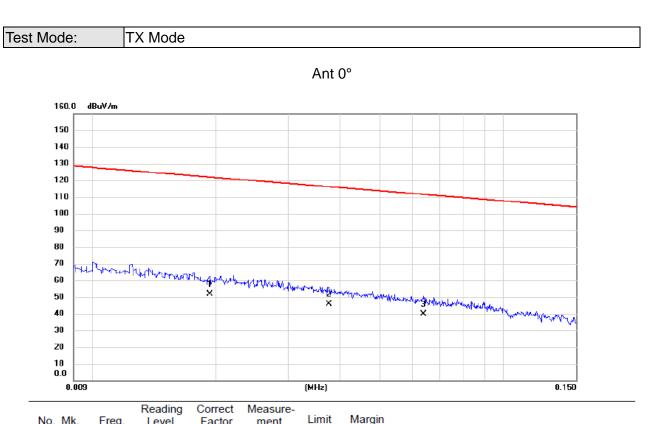




# APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)



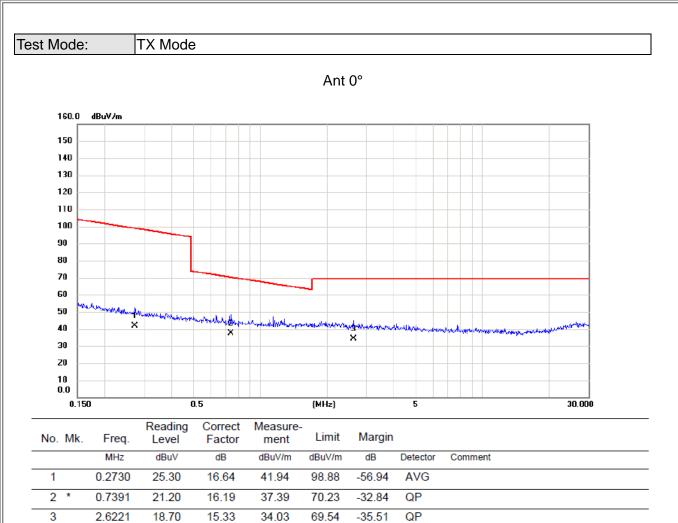




No.	Mk.	Freq.	Level		ment		Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0193	31.90	19.71	51.61	121.89	-70.28	AVG	
2		0.0376	26.60	19.09	45.69	116.10	-70.41	AVG	
3		0.0640	21.30	18.45	39.75	111.48	-71.73	AVG	

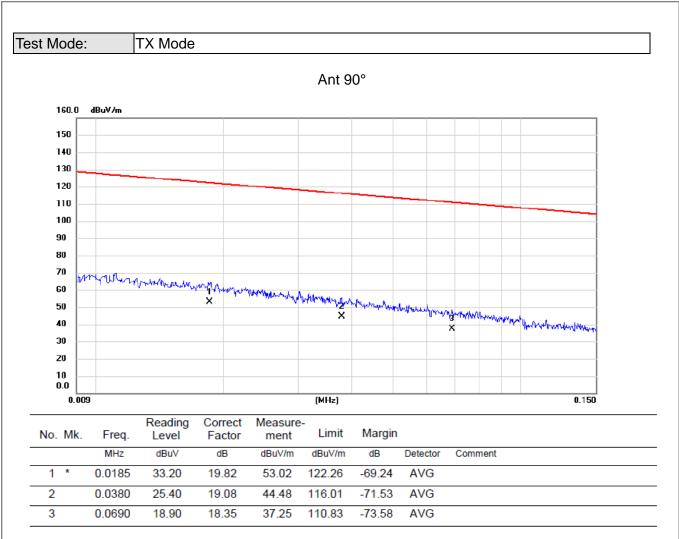






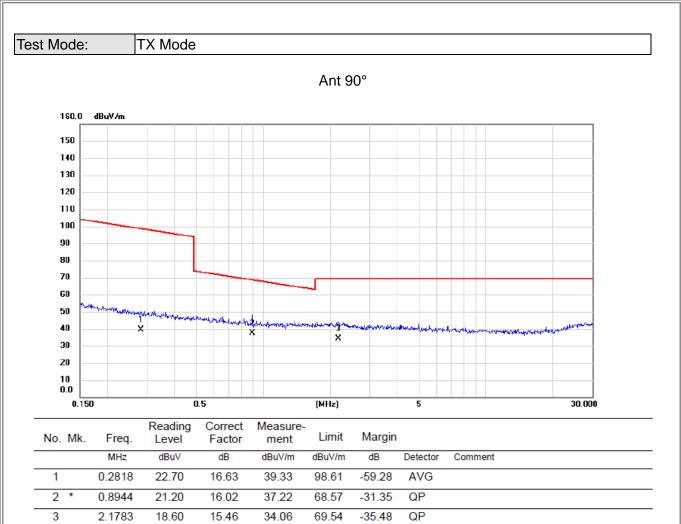












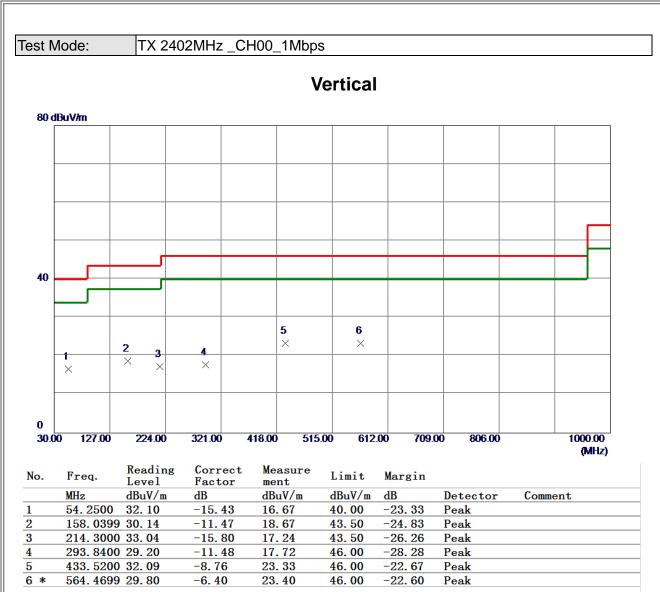




# APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

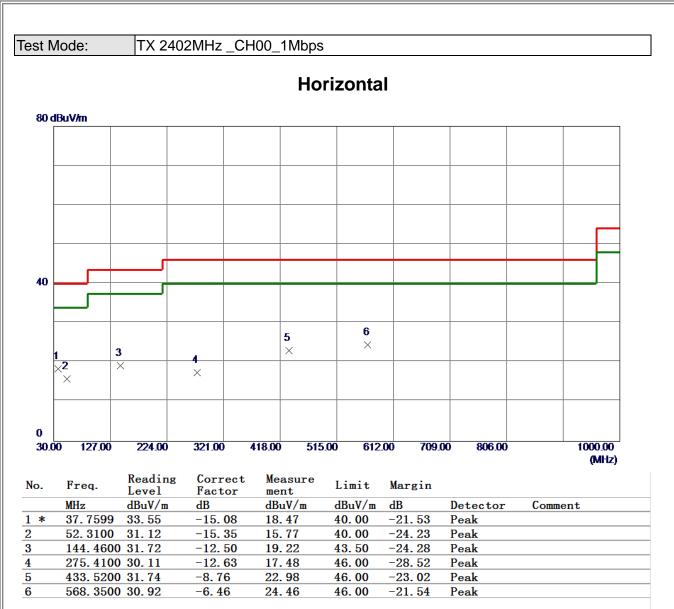






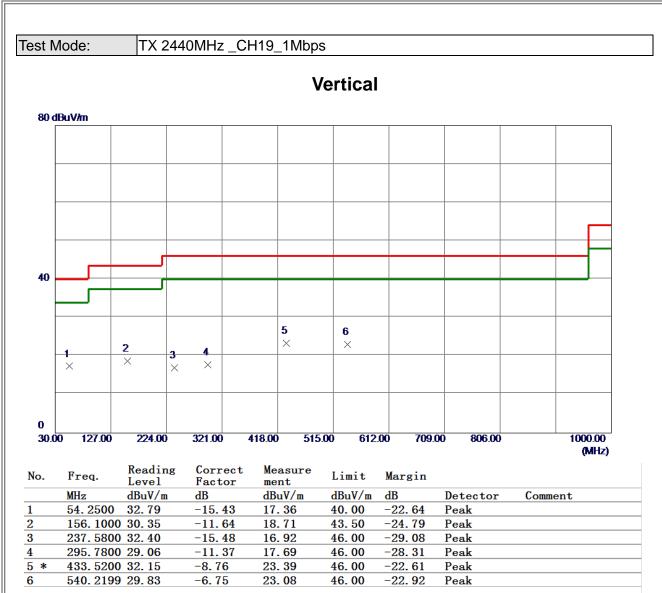






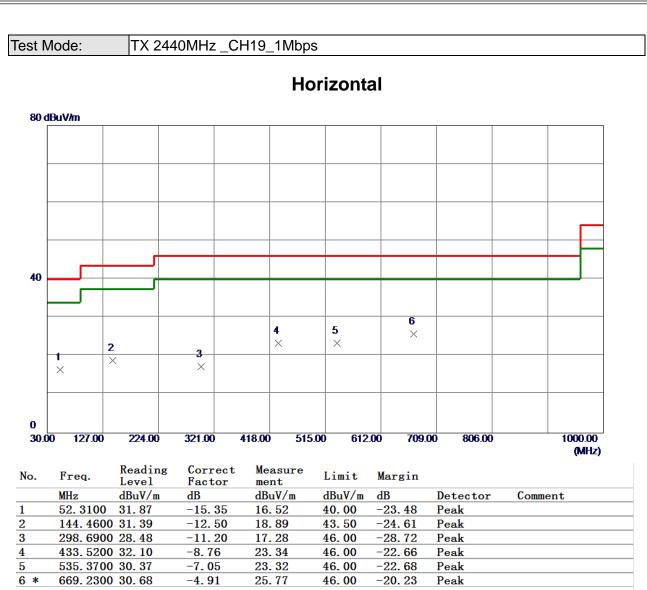






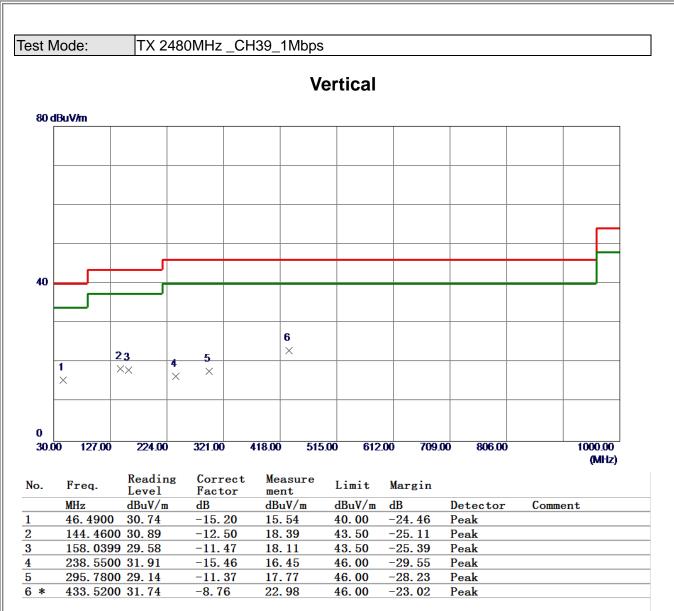






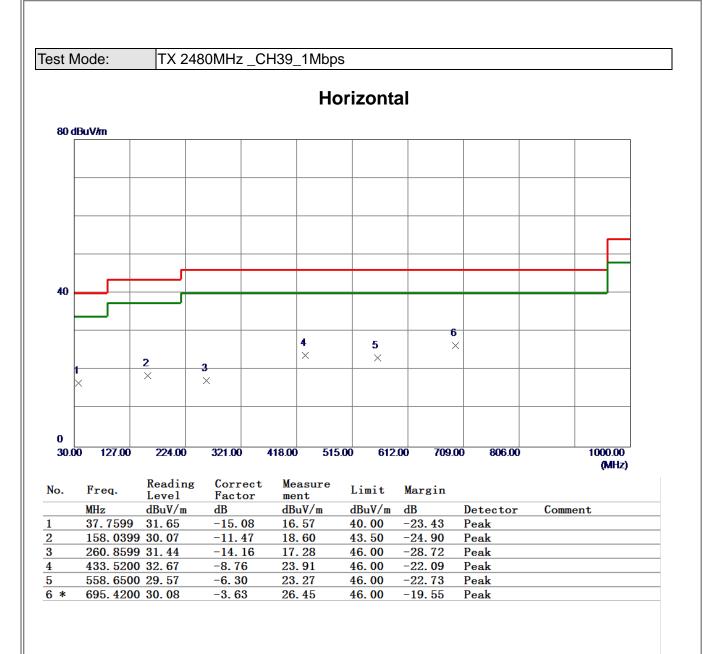












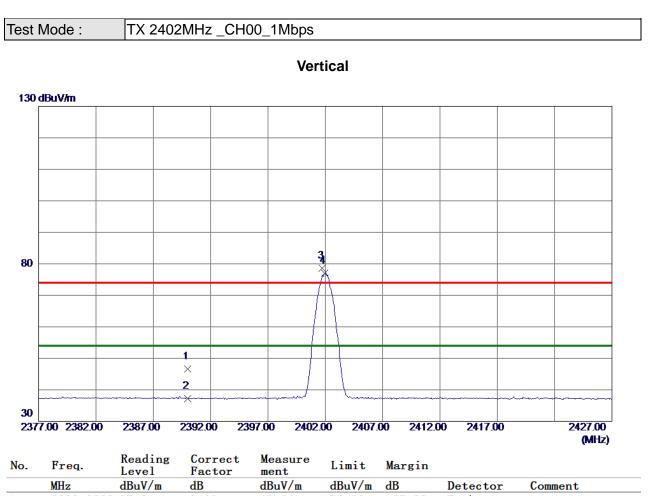




### **APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)**







	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	37.61	9.00	46.61	74.00	-27.39	Peak	
2	2390.0000	28.24	9.00	37.24	54. 00	-16.76	AVG	
3	2401.7500	69.62	9.00	78.62	74.00	4.62	Peak	No Limit
4 *	2401.9500	68.07	9.00	77.07	54.00	23.07	AVG	No Limit

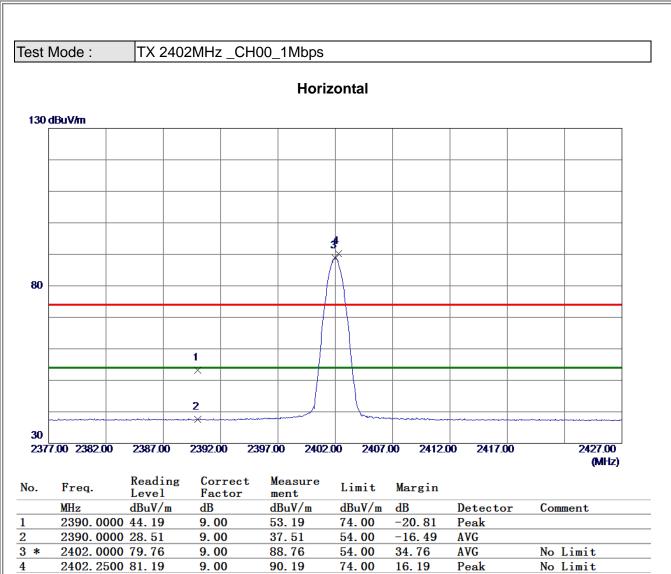




Test Mode : TX 2402MHz \_CH00\_1Mbps Vertical 80 dBuV/m  $^{\mathbf{2}}_{ imes}$ 40 1  $\times$ 0 1000.00 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 (MHz) Reading Correct Measure No. Freq. Limit Margin Factor Level ment MHz dB dBuV/m dBuV/m dBuV/m dB Detector Comment 1 \* 4803.7100 26.61 5.73 32.34 **54.00** -21.66 AVG 2 4803.9300 38.60 5.73 44.33 74.00 -29.67 Peak

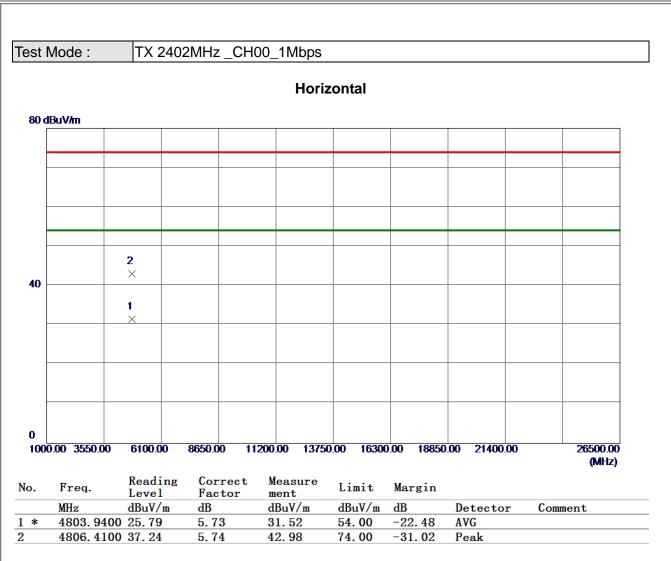






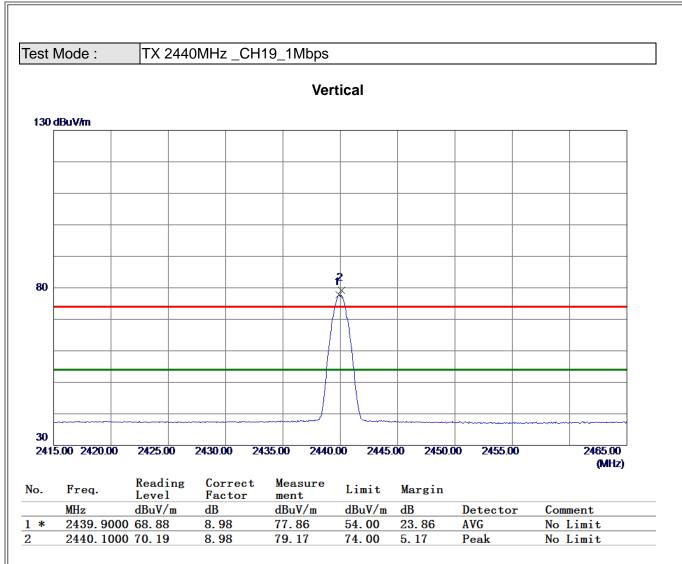












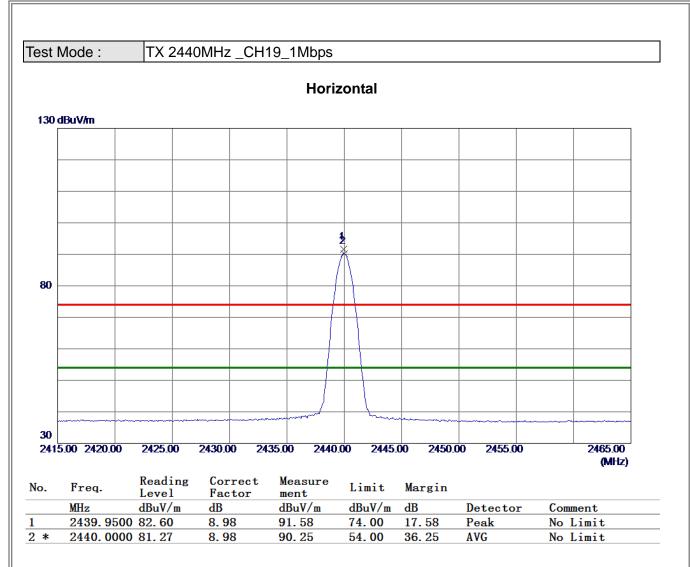






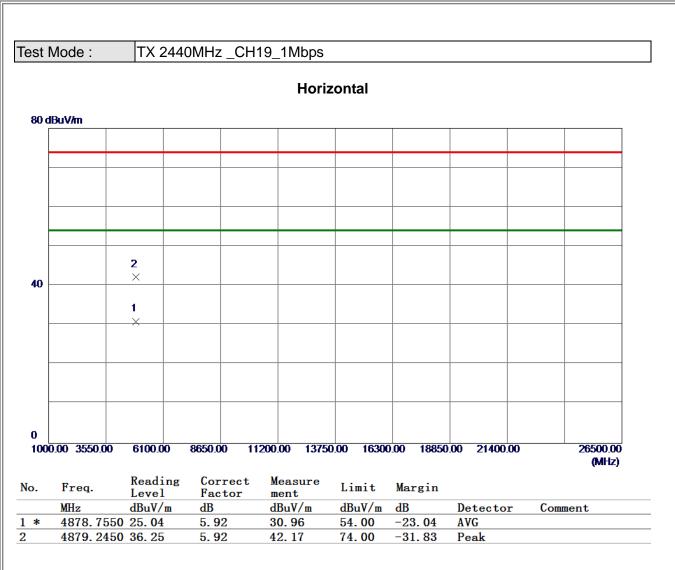






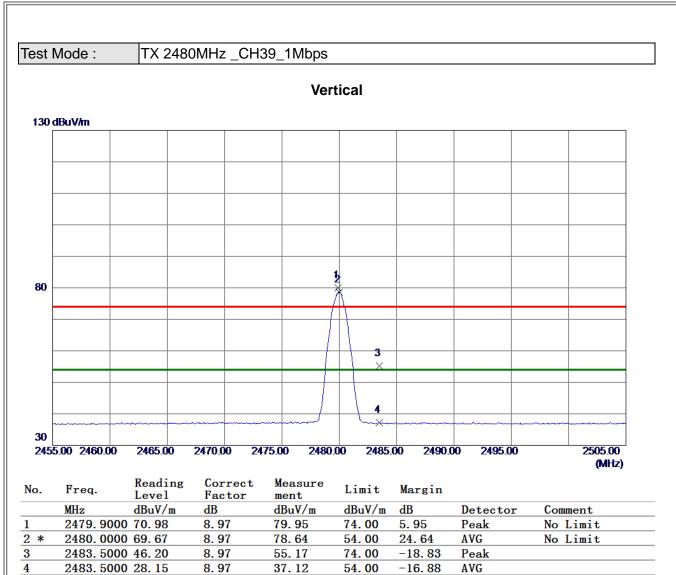






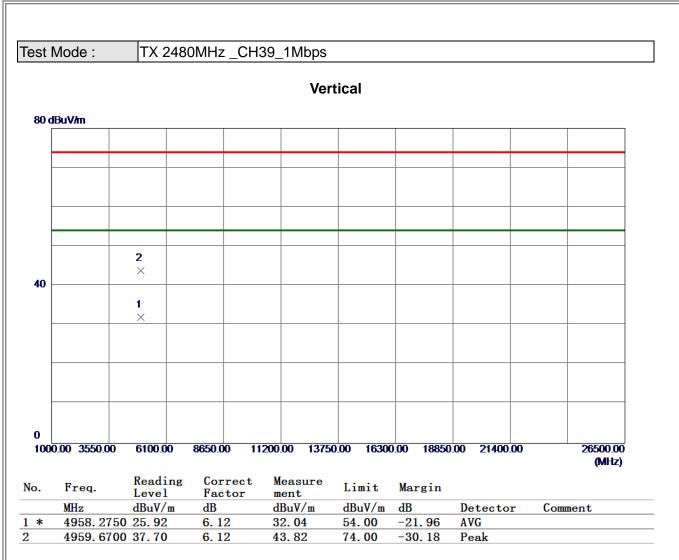






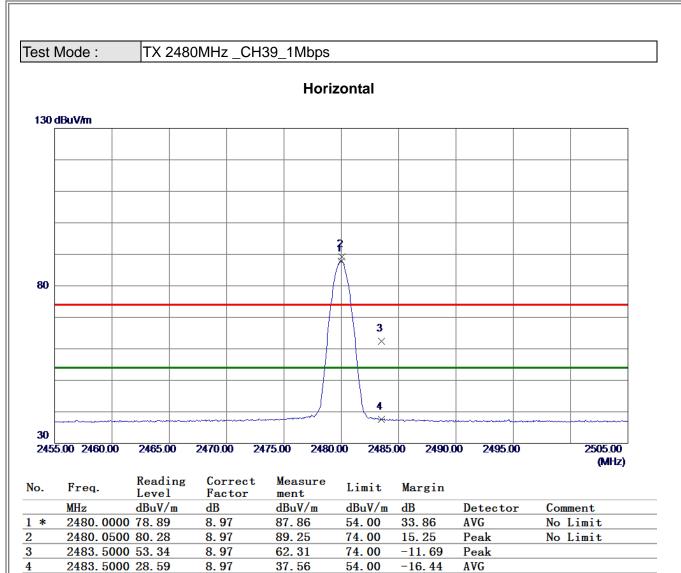


















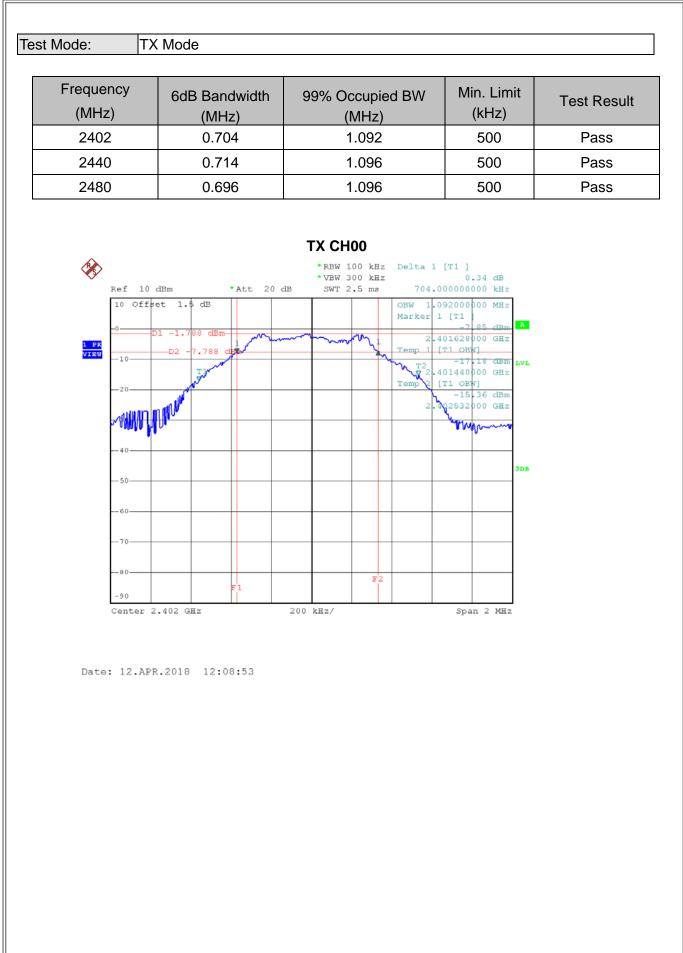




#### **APPENDIX E - BANDWIDTH**

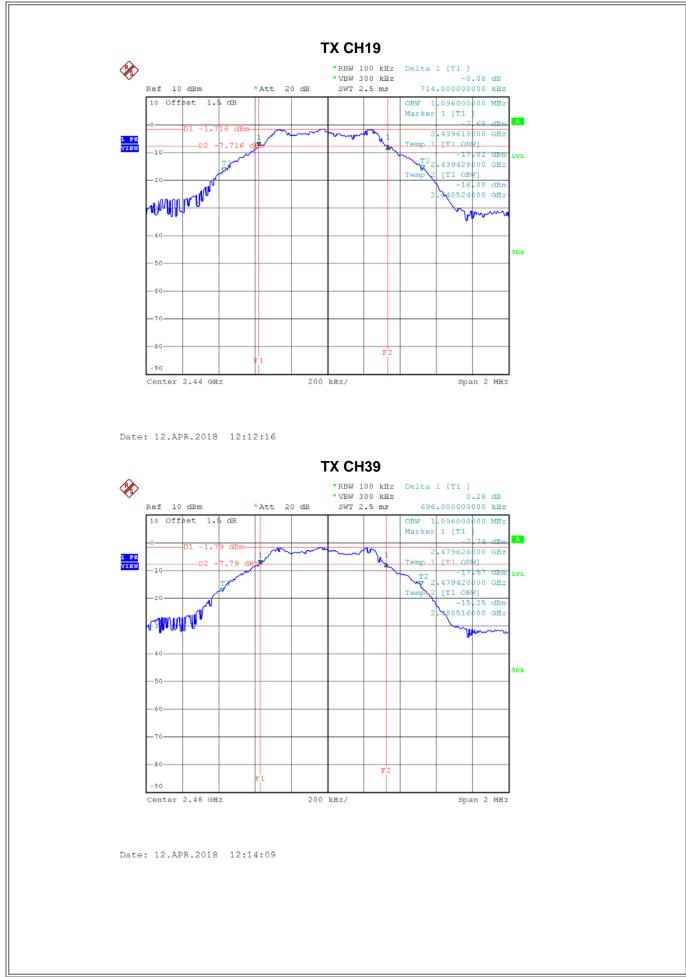






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#### **APPENDIX F - MAXIMUM OUTPUT POWER TEST**





Te	est Mode :	CH00, CH19, 0	CH39 - 1Mbps			
	Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Test Result
	(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Test Result
	2402	-0.88	0.0008	30.00	1.00	Pass
	2440	-1.13	0.0008	30.00	1.00	Pass
	2480	-1.65	0.0007	30.00	1.00	Pass

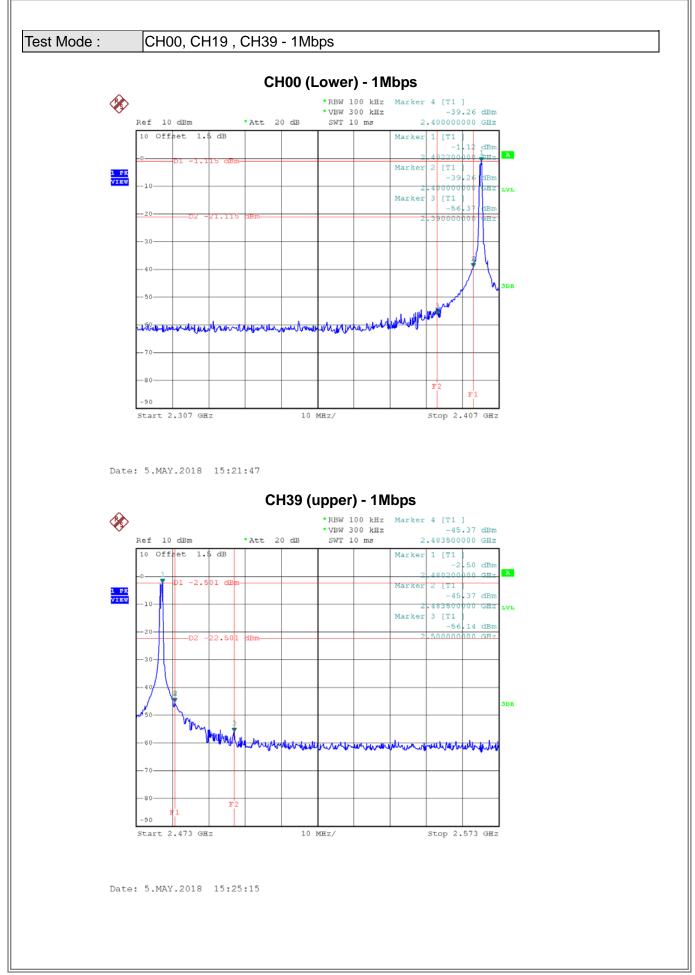




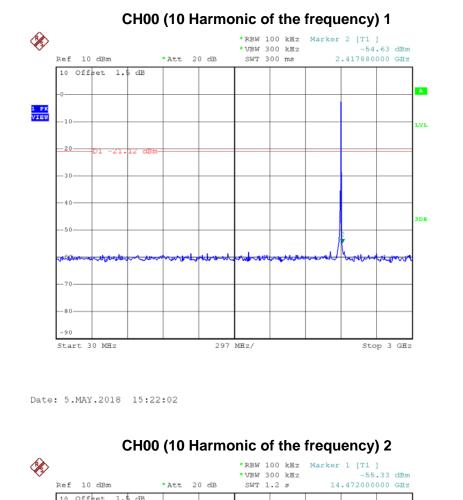
### **APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION**

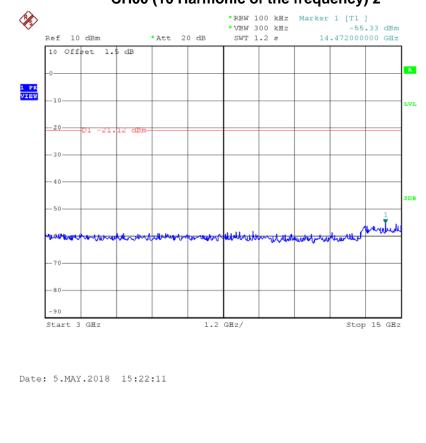






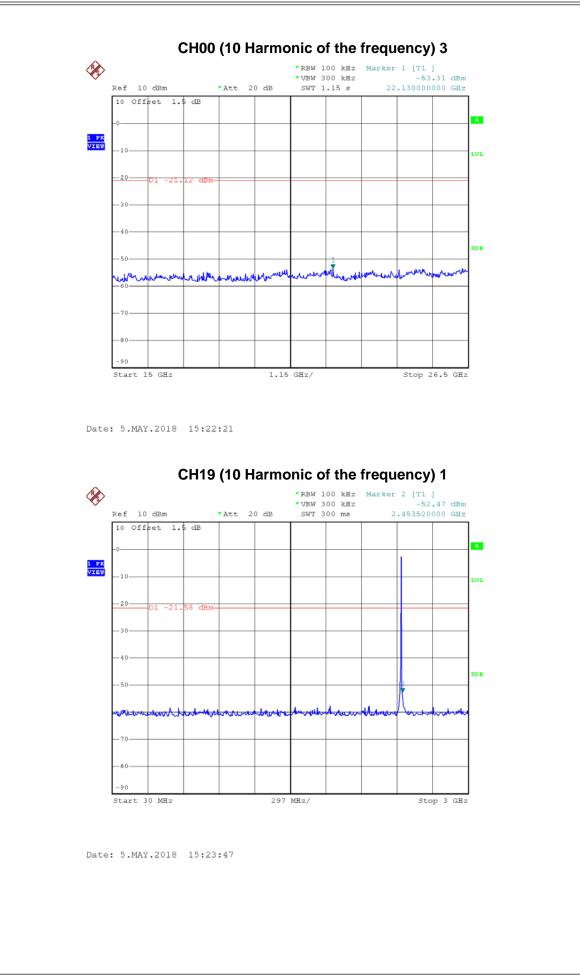




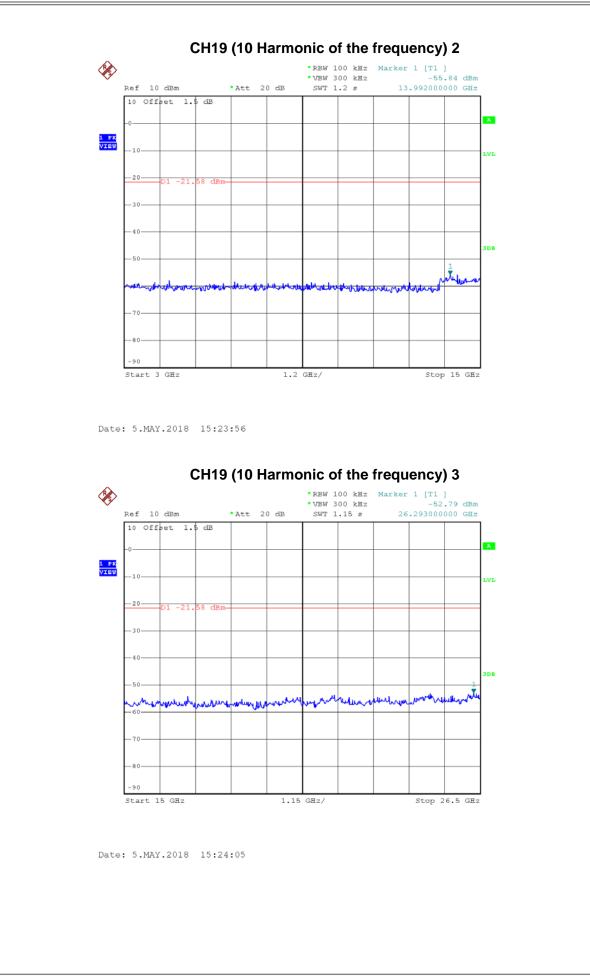


Report No.: BTL-FICP-1-1803C261



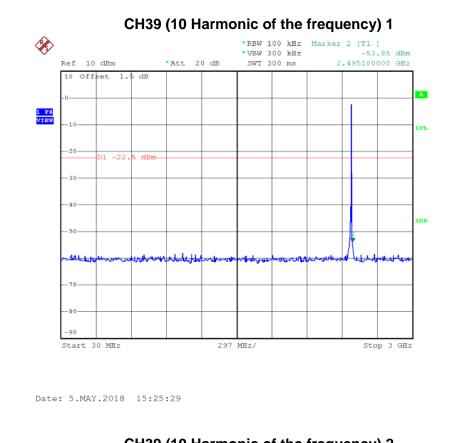


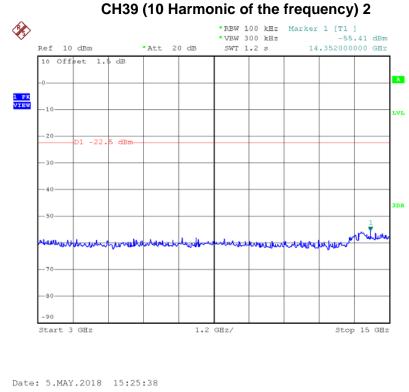




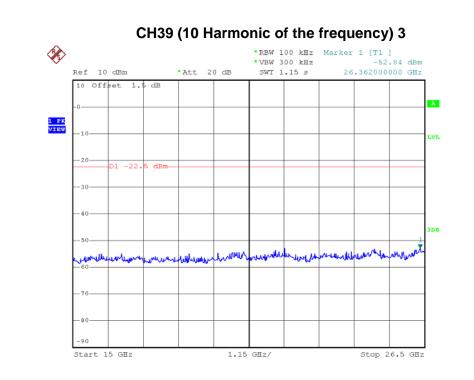
Report No.: BTL-FICP-1-1803C261











Date: 5.MAY.2018 15:25:48





#### **APPENDIX H - POWER SPECTRAL DENSITY TEST**





Frequency	Power Density	Power Density	Max. Limit	Test Resu
(MHz)	(dBm/3kHz)	(mW/3kHz)	(dBm/3kHz)	
2402	-15.740	0.027	8.00	Pass
2440	-16.230	0.024	8.00	Pass
2480	-17.200	0.019	8.00	Pass
-0	) dBm *Att 20	*VBW 10 kHz	cker 1 [T1 ] -15.74 dBm 2.401980000 GHz	
-0	. 1 mulum	Mart Mary Mary Mary Mary Mary Mary Mary Mary	LVL	
30	Man	ward har way was a		
<b>Mphohu</b> ] 60			W WW SDB	
70				
-90				
Center	2.402 GHz	200 kHz/	Span 2 MHz	

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