

# **FCC Test Report**

Report No.: AGC09241191001FE06

FCC ID : 2ADKJ-DWAM83

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: wireless audio module

**BRAND NAME** : N/A

MODEL NAME : DWAM83

**APPLICANT**: Dalian Golden Hualu Digital Technology Co., Ltd.

**DATE OF ISSUE** : Nov. 02, 2019

**STANDARD(S)** FCC Part 15.407

**TEST PROCEDURE(S)** KDB 789033 D02 v02r01

**REPORT VERSION** : V1.0

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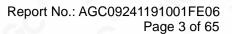


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#### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Nov. 02, 2019	Valid	Initial Release

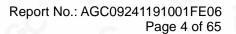






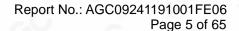
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#### 1. VERIFICATION OF CONFORMITY

Applicant	Dalian Golden Hualu Digital Technology Co., Ltd.			
Address	No.1, Hua Road, High-Tech Zone Dalian, China			
Manufacturer	Shen Zhen HuaYi Electronics Co., Ltd			
Address	3F/L, B1, Glory Technology Industrial Park, Baolong 5th road, LongGang, Shenzhen, China			
Factory	Dalian Golden Hualu Digital Technology Co., Ltd.			
Address	No.1, Hua Road, High-Tech Zone Dalian, China			
Product Designation	wireless audio module			
Brand Name	N/A			
Test Model	DWAM83			
Date of test	Oct. 22, 2019 to Oct. 31, 2019			
Deviation	No any deviation from the test method			
Condition of Test Sample	Normal			
Test Result	Pass			
Report Template	AGCRT-US-BGN/RF			

#### We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By	graven.co	
	Draven Li (Project Engineer)	Oct. 31, 2019
Reviewed By	Max Zhang	
	Max Zhang (Reviewer)	Nov. 02, 2019
Approved By	Forrest Wi	
	Forrest Lei (Authorized Officer)	Nov. 02, 2019

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#### 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

The EUT is designed as "wireless audio module". It is designed by way of utilizing the QPSK technology to achieve the system operation.

A major technical description of EUT is described as following

7 (major teoriniear accomption	Of LOT is described as following			
Operation Frequency 5150 MHz~5250MHz;5725 MHz~5850MHz				
Output Power	7.66dBm			
Modulation	QPSK			
Number of channels	3			
Hardware Version	L3			
Software Version	V20			
Antenna Designation	PCB Antenna			
Number of transmit chain	2( Used two antennas,but can not support MIMO)			
Directional gain	All transmit signals are completely uncorrelated with each other			
Antenna Gain	3dBi			
Power Supply DC 3.3V				

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
	1	5180	5725 GHz $\sim$ 5850GHz	4	5736
5150 GHz~ 5250GHz	2	5210		5	5762
3230GI 12	3	5240	3030-0112	6	5814



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#### 2.3. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ADKJ-DWAM83** filing to comply with the FCC Part 15 requirements.

#### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033 D02

#### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.





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#### 3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB



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#### 4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel
QPSK	1,2,3,4,5,6	1,2,3,4,5,6

#### Note:

- 1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- Use engineering instruction set the EUT into the individual test modes.



Service Hotline: 400 089 2118

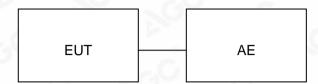


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#### 5. SYSTEM TEST CONFIGURATION

#### **5.1. CONFIGURATION OF EUT SYSTEM**

Configure 1:



#### **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment	Model No.	ID or Specification	Remark
1	wireless audio module	DWAM83	2ADKJ-DWAM83	EUT
3	PC Adapter	A1534	C02QJ21TGF84	AE
4	PC	Xiaomi	Air 13.3	AE

#### **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.407	6dB Bandwidth	Compliant
§15.407	Emission Bandwidth	Compliant
§15.407	Maximum conducted output power	Compliant
§15.407	Conducted Spurious Emission	Compliant
§15.407	Maximum Conducted Output Power Density	Compliant
§15.209	Radiated Emission	Compliant
§15.407	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant



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#### 6. TEST FACILITY

Test Site	Test Site Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China			
Designation Number CN1259				
FCC Test Firm Registration Number	975832			
A2LA Cert. No.	5054.02			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA			

#### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1 (Ver V1.71)	N/A	N/A	N/A

#### **TEST EQUIPMENT OF RADIATED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 13, 2018	Jun. 12, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2018	May. 16, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A



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#### 7. MAXIMUM CONDUCTED OUTPUT POWER

#### 7.1. MEASUREMENT PROCEDURE

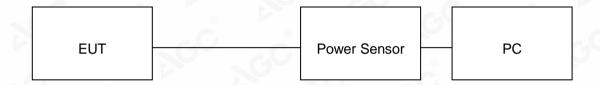
For average power test:

- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

#### 7.2. TEST SET-UP

#### **AVERAGE POWER SETUP**







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#### 7.3. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT FOR QPSK MODULATION							
Frequency (MHz) Average Power Chain 1(dBm) Average Power Chain 2(dBm) Average Power Total(dBm) Applicable Limits (dBm)							
5180	7.66	7.42	N/A	30	Pass		
5210	7.53	7.50	N/A	30	Pass		
5240	7.60	7.58	N/A	30	Pass		

LIMITS AND MEASUREMENT RESULT FOR QPSK MODULATION						
Frequency (MHz) Average Power Chain 1(dBm) Average Power Chain 2(dBm) Average Power Total(dBm) Applicable Limits (dBm)						
5736	7.41	7.30	N/A	30	Pass	
5762	7.33	7.35	N/A	30	Pass	
5814	7.37	7.28	N/A	30	Pass	



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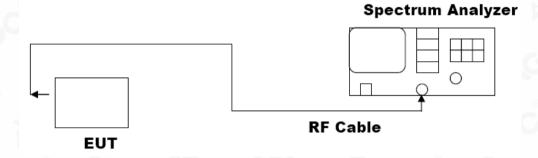
#### 8. 6dB BANDWIDTH

#### **8.1. MEASUREMENT PROCEDURE**

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on operation frequency individually.
- 3. Set RBW = 100kHz.
- 4. Set the VBW ≥3\*RBW. Detector = Peak. Trace mode = max hold.
- 5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

#### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)







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#### 8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT FOR QPSK MODULATION					
Accelled to the Man	Applicable Limits				
Applicable Limits	Test Date	Criteria			
NO CO	5736MHz	9.819	PASS		
>500KHZ	5762MHz	9.814	PASS		
	5814MHz	9.819	PASS		

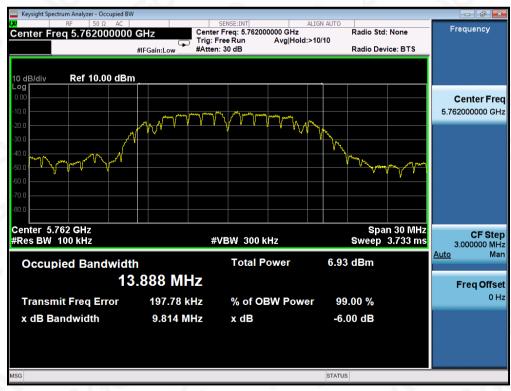




## TEST RESULT TEST PLOT OF BANDWIDTH FOR 5736MHz



#### TEST PLOT OF BANDWIDTH FOR 5762MHz





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#### TEST PLOT OF BANDWIDTH FOR 5814MHz





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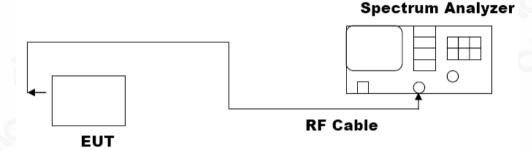
#### 9. EMISSION BANDWIDTH

#### 9.1. MEASUREMENT PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

#### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)







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#### 9.3. LIMITS AND MEASUREMENT RESULTS

LIMITS	AND MEASUREMENT RE	SULT FOR QPSK MODUL	ATION	
		Applicable Limits		
Applicable Limits	Test Data (MHz)		Criteria	
10° 10°	5180MHz	16.12	PASS	
Within the Band	5210MHz	16.12	PASS	
	5240MHz	16.14	PASS	



# TEST RESULT TEST PLOT OF BANDWIDTH FOR 5180MHz



#### TEST PLOT OF BANDWIDTH FOR 5210MHz





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#### TEST PLOT OF BANDWIDTH FOR 5240MHz



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#### 10. MAXIMUM CONDUCTED OUTPUT PEAK POWER SPECTRAL DENSITY

#### **10.1 MEASUREMENT PROCEDURE**

Refer to KDB 789033 section F

#### 10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

#### **10.3 MEASUREMENT EQUIPMENT USED**

Refer To Section 6.

#### **10.4 LIMITS AND MEASUREMENT RESULT**

LIMITS AND MEASUREMENT RESULT FOR QPSK MODULATION							
Frequency (MHz)  Power density Chain 1 Chain 2 Chain 2 (dBm/MHz)  Power density Power density Total (dBm/MHz)  Pass or							
5180	1.570	1.557	N/A	11	Pass		
5210	0.595	0.591	N/A	11	Pass		
5240	-0.382	-0.358	N/A	0 11	Pass		

LIMITS AND MEASUREMENT RESULT FOR QPSK MODULATION							
Frequency (MHz)  Power density Power density Chain 1 Chain 2 Total (dBm/500kHz) (dBm/500kHz) (dBm/500kHz)  Power density Power density Total (dBm/500kHz)					Pass or Fail		
5736	-2.549	-2.603	N/A	30	Pass		
5762	-3.043	-3.069	N/A	30	Pass		
5814	-3.230	-3.262	N/A	30	Pass		



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### TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 1



#### TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 2





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#### TEST PLOT OF SPECTRAL DENSITY FOR 5210MHz AT CHAIN 1



#### TEST PLOT OF SPECTRAL DENSITY FOR 5210MHz AT CHAIN 2





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#### TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 1



#### TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 2





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#### TEST PLOT OF SPECTRAL DENSITY FOR 5736MHz AT CHAIN 1



#### TEST PLOT OF SPECTRAL DENSITY FOR 5736MHz AT CHAIN 2





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#### TEST PLOT OF SPECTRAL DENSITY FOR 5762MHz AT CHAIN 1



#### TEST PLOT OF SPECTRAL DENSITY FOR 5762MHz AT CHAIN 2





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#### TEST PLOT OF SPECTRAL DENSITY FOR 5814MHz AT CHAIN 1



#### TEST PLOT OF SPECTRAL DENSITY FOR 5814MHz AT CHAIN 2





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#### 11. CONDUCTED SPURIOUS EMISSION

#### 11.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

#### 11.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

#### 11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

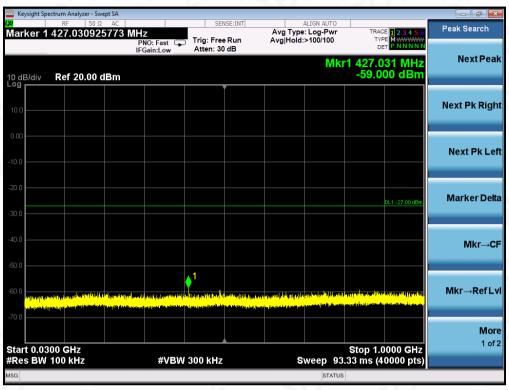
#### 11.4. LIMITS AND MEASUREMENT RESULT

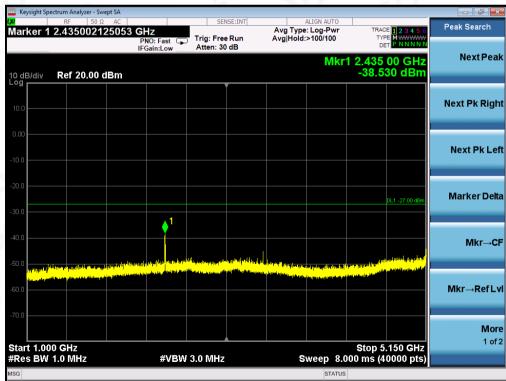
LIMITS AND MEASUREMENT RESULT							
Angliaghta Limita	Measurement Result						
Applicable Limits	Test channel	Criteria					
-27dBm/MHz	5150MHz-5250MHz	PASS					
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edgeincreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	5725MHz-5850MHz	PASS					





### MODULATION TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz





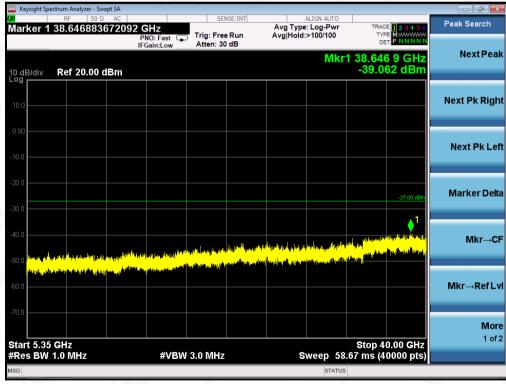


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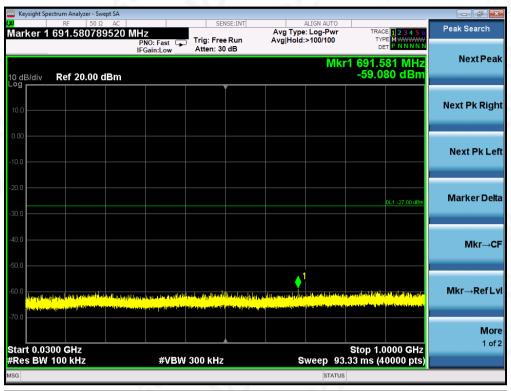


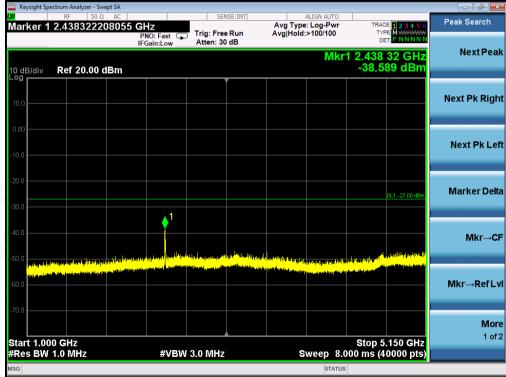
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#### TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5240MHz



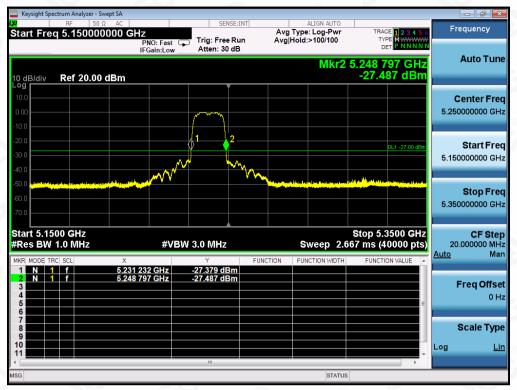


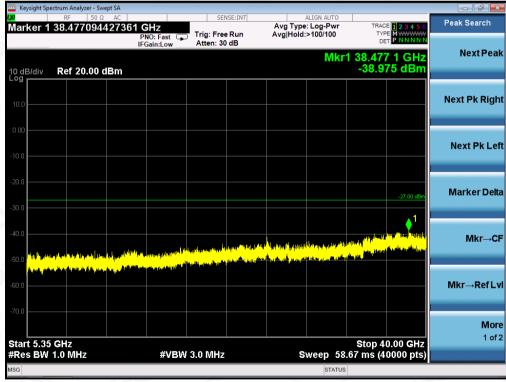


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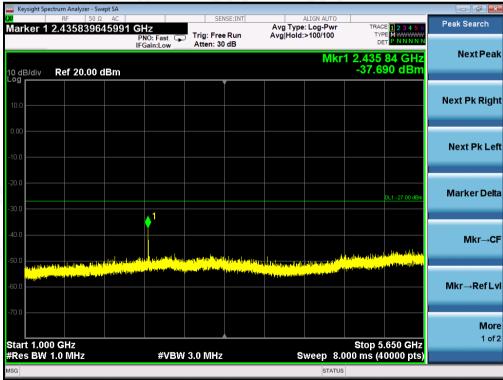
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#### TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5736MHz



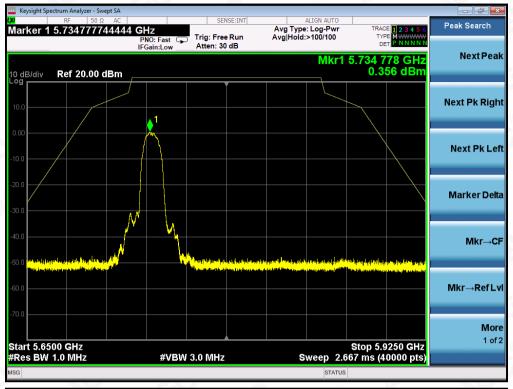


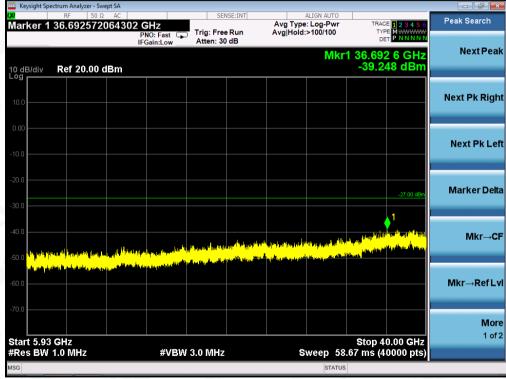


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