

FCC Test Report

Report No.: AGC06904200101FE03

FCC ID : 2AHYV-ESPORT2

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: EPIC SPORT 2 WIRELESS

BRAND NAME : JLAB

MODEL NAME : EPIC SPORT 2 WIRELESS BLACK, EPIC SPORT 2 WIRELESS

APPLICANT : PEAG, LLC dba JLab Audio

DATE OF ISSUE : Mar. 13, 2020

STANDARD(S) : FCC Part 15.247

REPORT VERSION: V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	91.0	Mar. 13, 2020	Valid	Initial Release

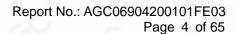




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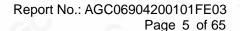






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1. VERIFICATION OF CONFORMITY

Applicant	PEAG, LLC dba JLab Audio
Address	2281 Las Palmas Drive, Suite 101, Carlsbad, CA 92011, USA
Manufacturer	PEAG, LLC dba JLab Audio
Address	2281 Las Palmas Drive, Suite 101, Carlsbad, CA 92011, USA
Factory	PEAG, LLC dba JLab Audio
Address	2281 Las Palmas Drive, Suite 101, Carlsbad, CA 92011, USA
Product Designation	EPIC SPORT 2 WIRELESS
Brand Name	JLAB
Test Model	EPIC SPORT 2 WIRELESS BLACK
Series Model	EPIC SPORT 2 WIRELESS
Difference Description	All the same except for the appearance color.
Date of test	Jan. 07, 2020 to Jan. 20, 2020
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/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 radiated emission limits of FCC PART 15.247.

Prepared By	pary 2m	
GC -	Daisy Qin Project Engineer	Jan. 20, 2020
Reviewed By	Max Zhang	
LICE LICE	Max Zhang Reviewer	Mar. 13, 2020
Approved By	Formescies	
	Forrest Lei Authorized Officer	Mar. 13, 2020



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "EPIC SPORT 2 WIRELESS". It is designed by way of utilizing the GFSK, Pi/4 DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

	a tag all the acceptance
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	2.314dBm(Max)
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps
Number of channels	79 Channels
Hardware Version	BK3266A
Software Version	BK3266_01_00
Antenna Designation	Ceramic Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	2.5dBi
Power Supply	DC 3.7V by battery or DC 5V by adapter
Note: The EUT doesn't supp	port BLE.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
700	0	2402MHZ
	9 69	2403MHZ
GO C	· F : 10	G 2 P
	38	2440 MHZ
2402~2480MHZ	39	2441 MHZ
JO 60	40	2442 MHZ
		100 c
	77	2479 MHZ
100 C	78	2480 MHZ



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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ,In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

- 1. LAP/UAP of the master of the connection.
- 2. Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For ehavior zation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire. LAP(24 bits),4LSB's(4bits)(Input 1) and the 27MSB's of the clock(Input 2) are used. With this input values different mathematical procedures(permutations, additions, XOR-operations) are performed to generate te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following ehavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always Differ from the first one.





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2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AHYV-ESPORT2** filing to comply with the FCC PART 15.247 requirements.

2.7. 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.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

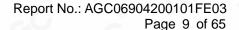
Not available for this EUT intended for grant.



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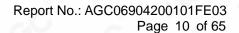


3. MEASUREMENT UNCERTAINTY

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

- Uncertainty of Conducted Emission, Uc = ±3.1 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±4.0 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.0 dB
- Uncertainty of total RF power, conducted, Uc = ±0.8dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: Uc = ±2 %
- Uncertainty of Frequency: Uc = ±2 %







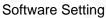
4. DESCRIPTION OF TEST MODES

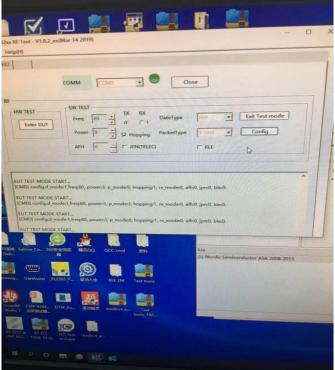
NO.	TEST MODE DESCRIPTION		
1	Low channel GFSK		
2	Middle channel GFSK		
3	High channel GFSK		
4	Low channel π/4-DQPSK		
5	Middle channel π/4-DQPSK		
6	High channel π/4-DQPSK		
7	Low channel 8DPSK		
8	Middle channel 8DPSK		
9	High channel 8DPSK		
10	Hopping mode GFSK		
11	Hopping mode π/4-DQPSK		
12	Hopping mode 8DPSK		

Note: 1. Only the result of the worst case was recorded in the report, if no other cases.

2. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.







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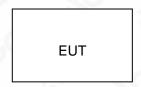


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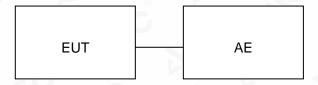
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	EPIC SPORT 2 WIRELESS	EPIC SPORT 2 WIRELESS BLACK	2AHYV-ESPORT2	EUT
2	Control Box	N/A	USB-TTL	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	Compliant
15.207	Conducted Emission	N/A

Note: The EUT can not use the BT function with charging.



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6. TEST FACILITY

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 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. 12, 2019	Dec. 11, 2020
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. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

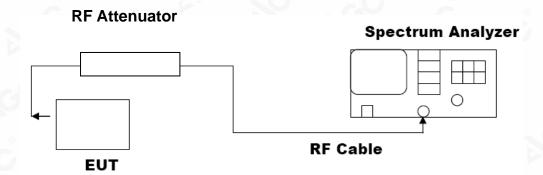
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW ≥RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

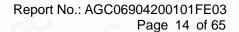
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP









7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT						
	FOR GFSK MOUL	DULATION				
Frequency (GHz) Peak Power (dBm) Applicable Limits (dBm) Pass of						
2.402 -0.015		30	Pass			
2.441	-0.102	30	Pass			
2.480	-0.205	30	Pass			

CH₀





CH39



CH78

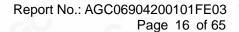




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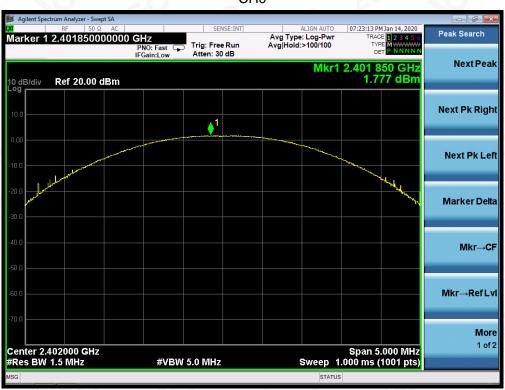
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PEAK OUTPUT POWER MEASUREMENT RESULT FOR II /4-DQPSK MODULATION					
Frequency (GHz)	Pass or Fail				
2.402	1.777	30	Pass		
2.441	1.750	30	Pass		
2.480	1.625	30	Pass		

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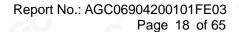




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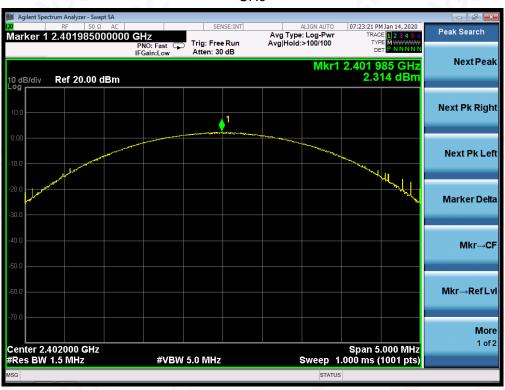
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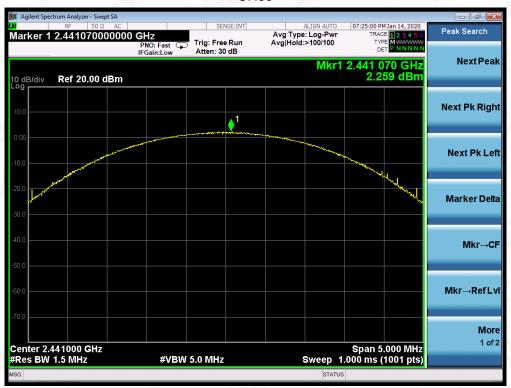
PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8DPSK MOUDULATION Frequency Peak Power Applicable Limits 5 5 5 11					
2.402 2.314		30	Pass		
2.441	2.259	30	Pass		
2.480	2.198	30	Pass		

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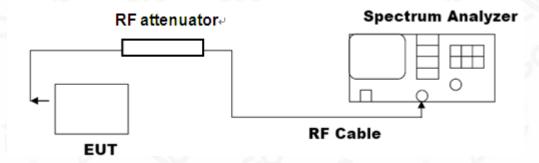
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8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel
 The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
 bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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



8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION					
Amuliaahla Limita		Measurement Resu	lt		
Applicable Limits	Test Data	ı (MHz)	Criteria		
10	Low Channel	1.029	PASS		
N/A	Middle Channel	1.024	PASS		
NO CO	High Channel	1.027	PASS		





TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





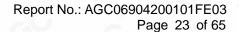
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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

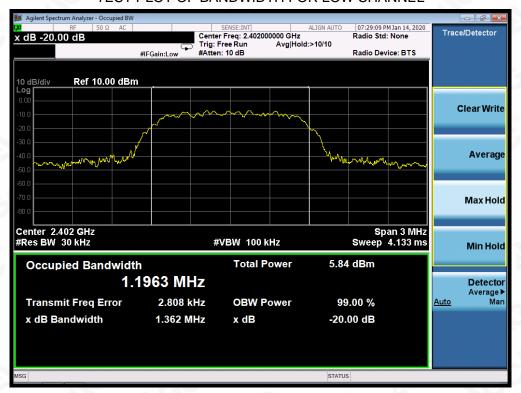






MEASUREMENT RESULT FOR II /4-DQPSK MODULATION					
Measurement Result					
Applicable Limits	Test Data	Test Data (MHz)			
NO CO	Low Channel	1.362	PASS		
N/A	Middle Channel	1.366	PASS		
	High Channel	1.364	PASS		

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



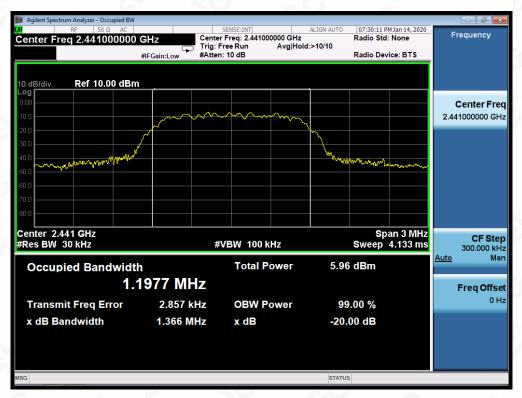
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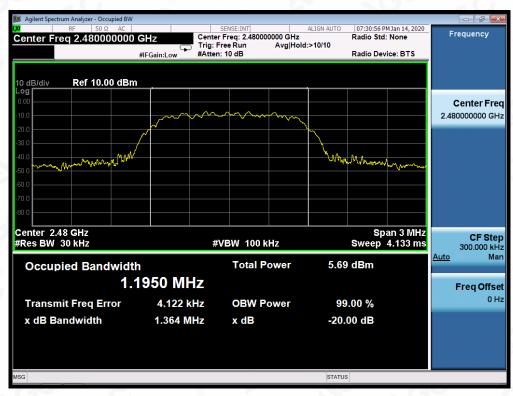
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



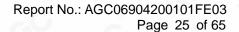
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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MEASUREMENT RESULT FOR 8DPSK MODULATION					
Measurement Result					
Applicable Limits	Test Data	(MHz)	Criteria		
SOUND CO	Low Channel	1.346	PASS		
N/A	Middle Channel	1.349	PASS		
	High Channel	1.346	PASS		

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL







TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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9. CONDUCTED SPURIOUS EMISSION

9.1. 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 the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 - RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

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

The same as described in section 8.2

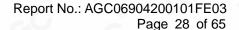
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT				
Annii ala Limita	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit			
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS		
intentional radiator is operating, the radio frequency	Channel			
power that is produce by the intentional radiator shall		8		
be at least 20 dB below that in 100KHz bandwidth				
within the band that contains the highest level of the	2.C 0 P			
desired power.	At least -20dBc than the limit	PASS		
In addition, radiation emissions which fall in the	Specified on the TOP Channel	PASS		
restricted bands, as defined in §15.205(a), must also				
comply with the radiated emission limits specified				
in§15.209(a))				



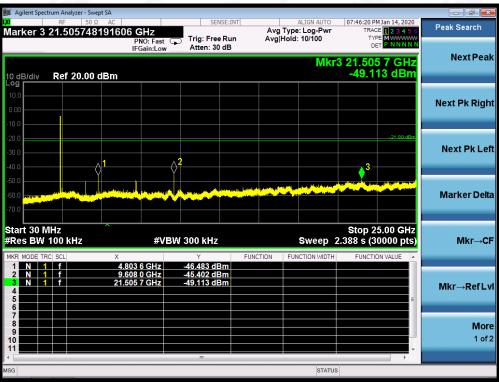




TEST RESULT FOR ENTIRE FREQUENCY RANGE

TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL







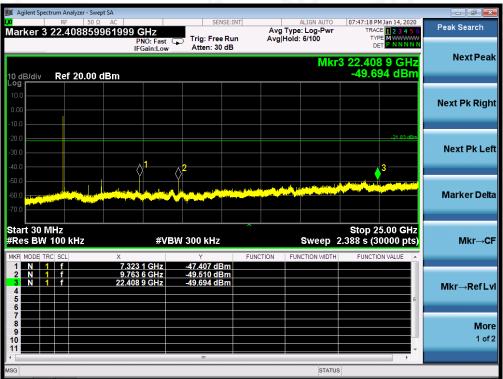
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TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL







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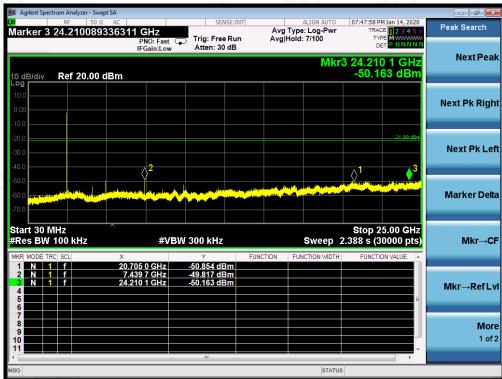
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TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL





Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit. The 8DPSK modulation is the worst case and only those data recorded in the report.



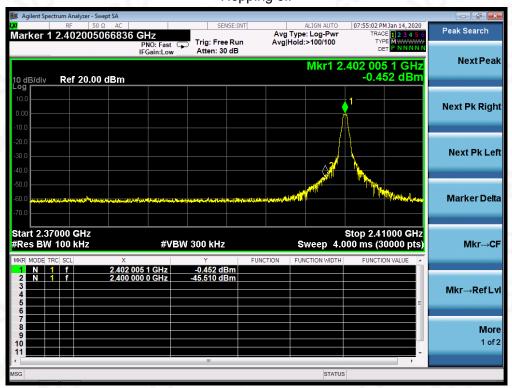
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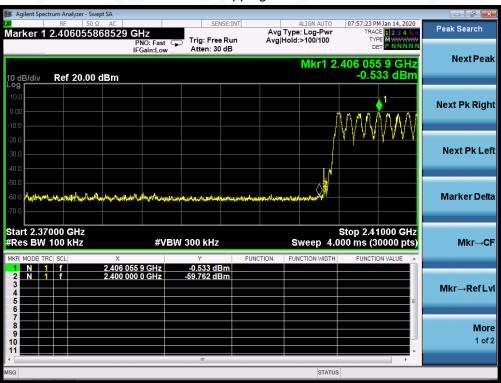


TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL Hopping off



Hopping on



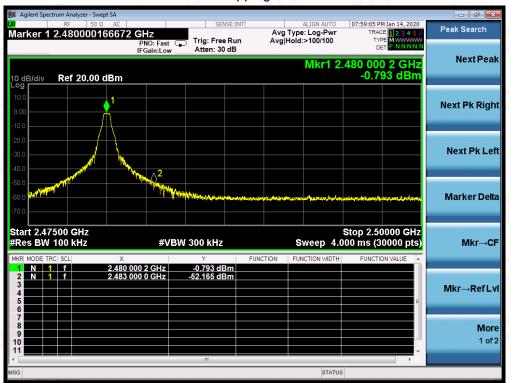


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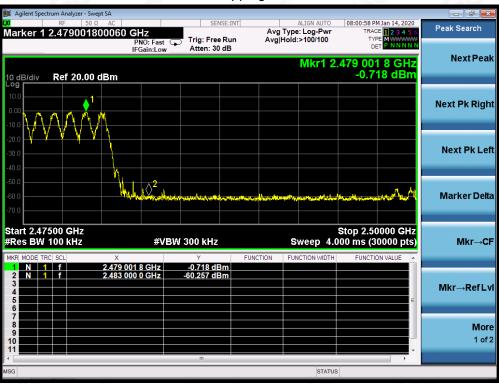
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GFSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



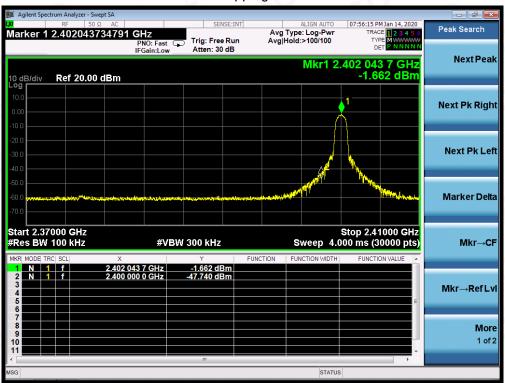


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π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off



Hopping on



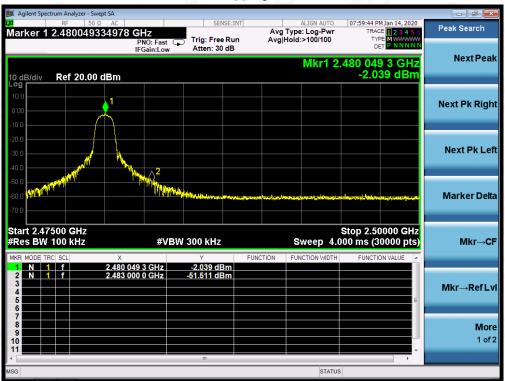


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π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



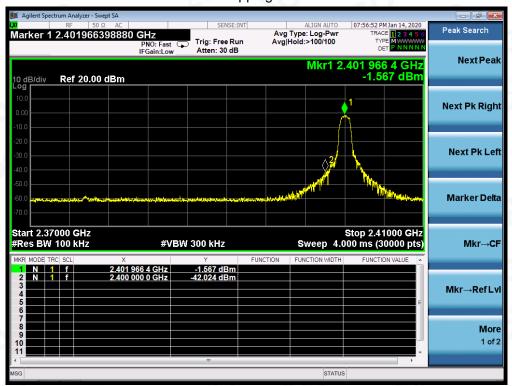


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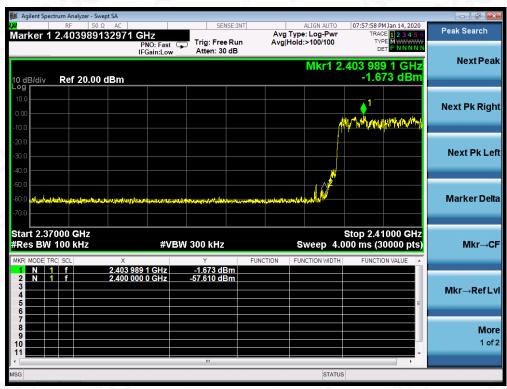
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8DPSK MODULATION IN LOW CHANNEL Hopping off



Hopping on





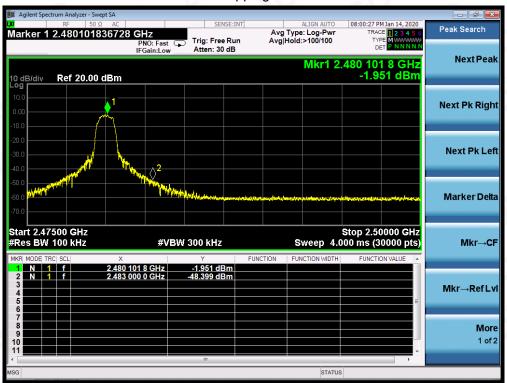
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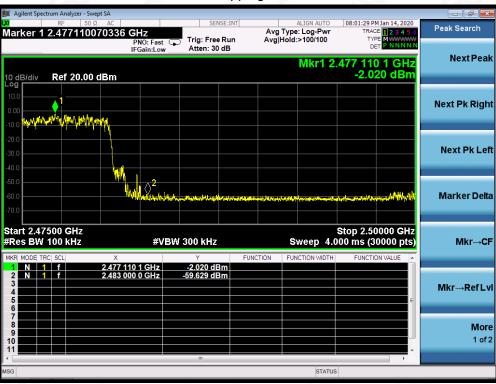
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8DPSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on





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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.





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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

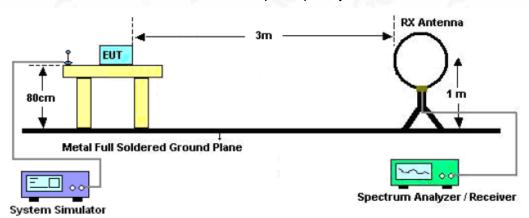
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP



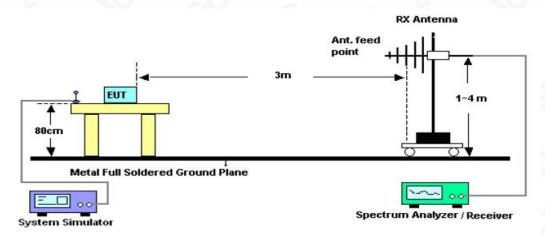


10.2. TEST SETUP

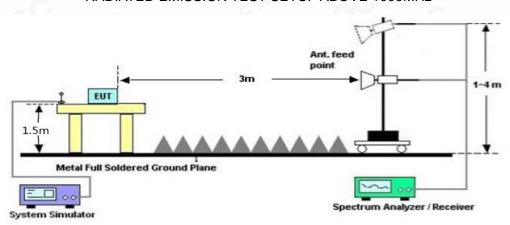
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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
Above 960	500	3

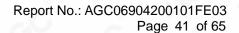
Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

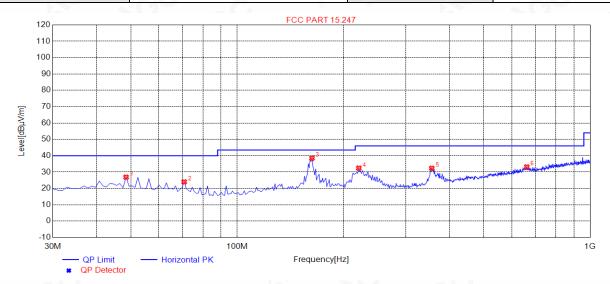
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RADIATED EMISSION BELOW 1GHZ

EUT	EPIC SPORT 2 WIRELESS	Model Name	EPIC SPORT 2 WIRELESS BLACK
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal



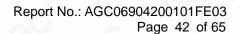
Suspe	Suspected Data List							
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Dolositu
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	48.4300	26.89	14.71	40.00	13.11	150	42	Horizontal
2	70.7400	24.03	12.07	40.00	15.97	150	276	Horizontal
3	162.890	38.51	14.65	43.50	4.99	150	189	Horizontal
4	221.090	32.44	13.37	46.00	13.56	150	24	Horizontal
5	355.920	32.34	18.05	46.00	13.66	150	113	Horizontal
6	661.470	33.19	25.32	46.00	12.81	150	19	Horizontal

RESULT: PASS



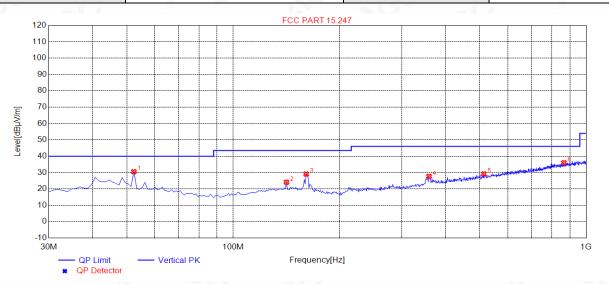
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EUT	EPIC SPORT 2 WIRELESS	Model Name	EPIC SPORT 2 WIRELESS BLACK
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical



Suspe	Suspected Data List									
NO	Freq.	Level	Factor	Limit	Margin	Height	Angle	Dolositu		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	52.3100	30.57	14.49	40.00	9.43	150	275	Vertical		
2	141.550	24.15	14.88	43.50	19.35	150	228	Vertical		
3	160.950	29.12	14.84	43.50	14.38	150	116	Vertical		
4	358.830	27.70	18.16	46.00	18.30	150	356	Vertical		
5	513.060	29.22	22.44	46.00	16.78	150	74	Vertical		
6	865.170	36.07	29.56	46.00	9.93	150	349	Vertical		

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 7 is the worst case and recorded in the report.



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RADIATED EMISSION ABOVE 1GHZ

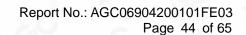
EUT	EPIC SPORT 2 WIRELESS	Model Name	EPIC SPORT 2 WIRELESS BLACK
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	51.55	0.08	51.63	74	-22.37	peak
4804.000	46.36	0.08	46.44	54	-7.56	AVG
7206.000	49.12	2.21	51.33	74	-22.67	peak
7206.000	43.47	2.21	45.68	54	-8.32	AVG
	-,0		8		60	-6
Remark:		- LOC		0		
actor = Ante	enna Factor + C	able Loss – F	re-amplifier.	C	0	

EUT	EPIC SPORT 2 WIRELESS	Model Name	EPIC SPORT 2 WIRELESS BLACK
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	51.41	0.08	51.49	74	-22.51	peak
4804.000	45.63	0.08	45.71	54	-8.29	AVG
7206.000	49.13	2.21	51.34	74	-22.66	peak
7206.000	43.02	2.21	45.23	54	-8.77	AVG
100	- GO	8				6
emark:		9	-C	3		
actor = Ante	enna Factor + Ca	ble Loss -	Pre-amplifier.			







EUT	EPIC SPORT 2 WIRELESS	Model Name	EPIC SPORT 2 WIRELESS BLACK
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	50.4	0.14	50.54	74	-23.46	peak
4882.000	45.13	0.14	45.27	54	-8.73	AVG
7323.000	46.01	2.36	48.37	74	-25.63	peak
7323.000	40.19	2.36	42.55	54	-11.45	AVG
(8)			1			
- Cı	(6)					3)
Remark:	.0	8			- C	(0)
Factor = Ante	enna Factor + Ca	able Loss –	Pre-amplifier.			
			_			

EUT	EPIC SPORT 2 WIRELESS	Model Name	EPIC SPORT 2 WIRELESS BLACK
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Vertical

(-ID) ()			Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
49.16	0.14	49.3	74 ®	-24.7	peak
44.18	0.14	44.32	54	-9.68	AVG
45.62	2.36	47.98	74	-26.02	peak
39.09	2.36	41.45	54	-12.55	AVG
		20			
	44.18 45.62 39.09	44.18 0.14 45.62 2.36 39.09 2.36	44.18 0.14 44.32 45.62 2.36 47.98 39.09 2.36 41.45	44.18 0.14 44.32 54 45.62 2.36 47.98 74	44.18 0.14 44.32 54 -9.68 45.62 2.36 47.98 74 -26.02 39.09 2.36 41.45 54 -12.55

