FCC Test Report

Report No.: AGC01835170316FE03

FCC ID	:	2AHYVEPICAIRL
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Epic Air True Wireless Sport Earbuds
BRAND NAME	:	JLab
MODEL NAME	:	Epic Air
CLIENT	:	PEAG, LLC dba JLab Audio
DATE OF ISSUE	:	Apr.06, 2017
STANDARD(S) TEST PROCEDURE(S)	:	FCC Part 15 Subpart C Section 15.249
REPORT VERSION	:	V1.0



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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr.06, 2017	Valid	Original Report

Report Revise Record

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Applicant	PEAG, LLC dba JLab Audio
Address	3402 Piazza D`Oro Way, Suite 230, Oceanside, CA 92056, USA
Manufacturer	Cosonic Intelligent Technologies Co., Ltd.
Address	5th Floor, 1st Building, No.6, South Industry Road,Songshan Lake National High-tech Industrial Development Zone,Dongguan City,Guangdong,China 523808
Product Designation	Epic Air True Wireless Sport Earbuds
Brand Name	JLab
Test Model	Epic Air
Date of test	Mar.28, 2017 to Apr.04, 2017
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249.

Service Ling **Tested By** Strive Liang(Liang Faqiang) Apr.04, 2017 Formesto **Reviewed By** Forrest Lei(Lei Yonggang) Apr.06, 2017 Solya 2h Approved By Solger Zhang(Zhang Hongyi) Apr.06, 2017 Authorized Officer

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

,	8
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	3.03dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	GFSK ,π /4-DQPSK, 8DPSK
Number of channels	79 for BR/EDR
Hardware Version	V0.5
Software Version	TDB
Antenna Designation	Fixed Antenna
Antenna Gain	2.5dBi
Power Supply	DC 3.7V by battery
Noto: 1 The ELIT didn't support P	

Note: 1. The EUT didn't support BLE.

2. The BT function of EUT didn't work when charging

3. The EUT comprises left and right channel earphone, both have been tested. Owing to the PCB layout was different, only the test data of left earphone recorded in this report, right earphone recorded in another report (AGC01835170317FE03).

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
	0	2402MHz
	1	2403MHz
	:	:
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
	:	:
	77	2479 MHz
	78	2480 MHz

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm 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 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±3.18dB
2	All emissions, radiated	±3.91dB
3	Temperature	±0.5°C
4	Humidity	±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	BT Link
NI (

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.

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

3. The EUT used fully-charged battery when tested.

BlueTest3	Test Mode Test Arguments Close RADIO STATUS FUL D Freq. (MHz) 2402 RADIO STATUS FUL Power (Ext, Int) 255 50 Execute TXDATA1 TXDATA2 TXDATA3 Cold Reset TXDATA2 Warm Reset Cold Reset RXSTART1 Warm Reset Warm Reset Rest Results Save to file Browse for file Display : • Standard Bit Error . Vlogfile. txt Vlogfile. txt 	Test Mode FAUSE RADIO STATUS RADIO STATUS RADIO STATUS RADIO STATUS RULL Fower (Ext, Int) 255 50 Execute Close Close Close Close Close Close Close Code Reset Code Reset Code Reset Warm Reset Code Reset Warm Reset Test Results Save to file Browse for file Display: Standard Bit Error Nogfile.txt pening USB SPI (602250). ransport active. al. (Markare LD 0x322) firmware version 8648	sst Mode AUSE AUSE AUIO STATUS ADIO STATUS FULL START XDATA2 XDATA2 XDATA2 XDATA3 XDATA4 XSTART1 XSTART2 XDATA1 XSTART2 XDATA1 XSTART2 XDATA1 XSTART2 XDATA1 XSTART2 XDATA1 XSTART2 XDATA1 XSTART2 XDATA1 XSTART2 XDATA2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA5 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA5 XSTART2 XDATA5 XSTART2 XDATA4 XSTART2 XDATA4 XSTART2 XDATA5 XSTART2 XDATA5 XSTART2 XDATA5 XSTART2 XDATA5 XSTART2 XDATA5 XSTART2 XSTART2 XDATA5 XSTART2 XST	BlueTest3					
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Epic Air True Wireless Sport Earbuds	JLab	Epic Air	EUT
2	Battery	VARTA	CP1654 A3	Accessory
3	PC	Sony	E1412AYCW	A.E
4	PC Adapter	Sony	AC-L100	A.E
5	Control box	CSR	USB_SPI_TOOLS	A.E

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	N/A
§15.215	Bandwidth	Compliant

Note: N/A means it's not applicable to this item.

6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location	Building D,Baoding Technology Park,Guangming Road2,Dongcheng District, Dongguan, Guangdong, China,
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014.

7.TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

8. TEST EQUIPMENT LIST

FOR RADIATED EMISSION TEST (BELOW 1GHz)

	Radiat	ed Emission Tes	st Site		
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101417	July 4, 2016	July 3, 2017
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2016	July 3, 2017
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2016	July 3, 2017
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2016	July 3, 2017
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2016	June 5, 2017
MULTI-DEVICE Positioning Controller	MAX-FULL	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	SCHWARZBECK	FMZB1519	1519-038	June 6, 2016	June 5, 2017
Spectrum analyzer	AGILENT	E4407B	MY46185649	June 6, 2016	June 5, 2017
Radiation Cable 1	МХТ	RS1	R005	June 6, 2016	June 5, 2017
Radiation Cable 2	MXT	RS1	R006	June 6, 2016	June 5, 2017

	Radiat	ed Emission Tes	st Site		
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101417	July 4, 2016	July 3, 2017
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 11, 2016	July 10, 2017
Spectrum Analyzer	AGILENT	E4411B	MY4511453	July 4, 2016	July 3, 2017
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 7, 2016	July 6, 2017
RF Cable	SCHWARZBECK	AK9515H	96220	July 8, 2016	July 7, 2017
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2016	June 5, 2017
MULTI-DEVICE Positioning Controller	MAX-FULL	MF-7802	MF780208339	N/A	N/A
Horn Ant (18G-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	June 6, 2016	June 5, 2017
Radiation Cable 1	МХТ	RS1	R005	June 6, 2016	June 5, 2017
Radiation Cable 2	МХТ	RS1	R006	June 6, 2016	June 5, 2017

FOR RADIATED EMISSION TEST (1GHz ABOVE)

9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics			
	(millivolts/meter)	(microvolts/meter)			
900-928MHz	50	500			
2400-2483.5MHz	50	500			
5725-5875MHz	50	500			
24.0-24.25GHz	250	2500			

Standard FCC 15.209

Frequency	Distance	Field Strer	ngths Limit
(MHz)	Meters	μ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(µV)/m (Peal	<) 54.0 dB(μV)/m (Average)
Remark: (1) Emission le	evel dBµ V = 20 log Emissio	n level µ V/m	
(2) The smalle	r limit shall apply at the cros	s point between two frequen	cy bands.
(3) Distance is	the distance in meters betw	een the measuring instrume	nt, antenna and the closest

point of any part of the device or system.

9.2. MEASUREMENT PROCEDURE

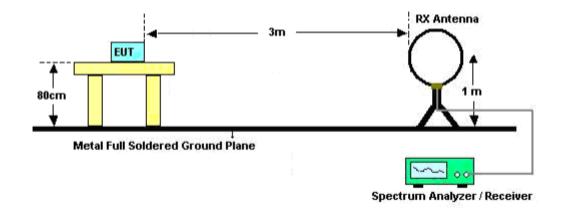
- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall 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)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. 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 Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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 RBW 2MHz/ VBW 6MHz for Peak, RBW 1.5MHz/ VBW 10Hz 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

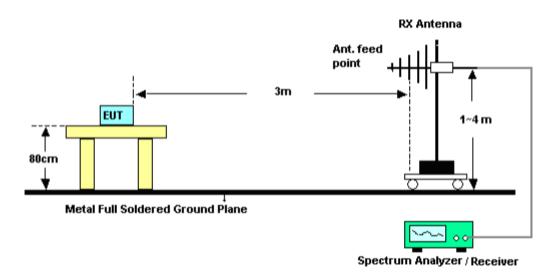
The following table is the setting of spectrum analyzer and receiver.

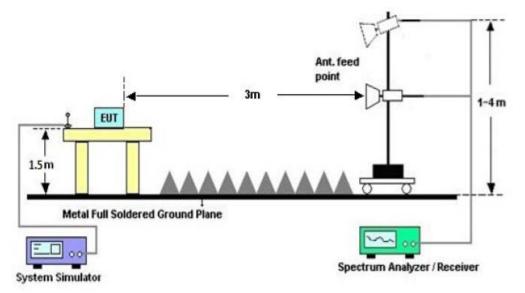
9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz





RADIATED EMISSION TEST SETUP ABOVE 1000MHz

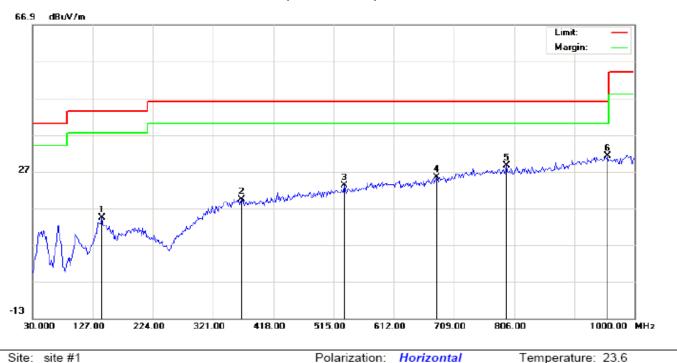
9.4. TEST RESULT (Worst modulation:GFSK) FOR BR/EDR

RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION BELOW 1GHz

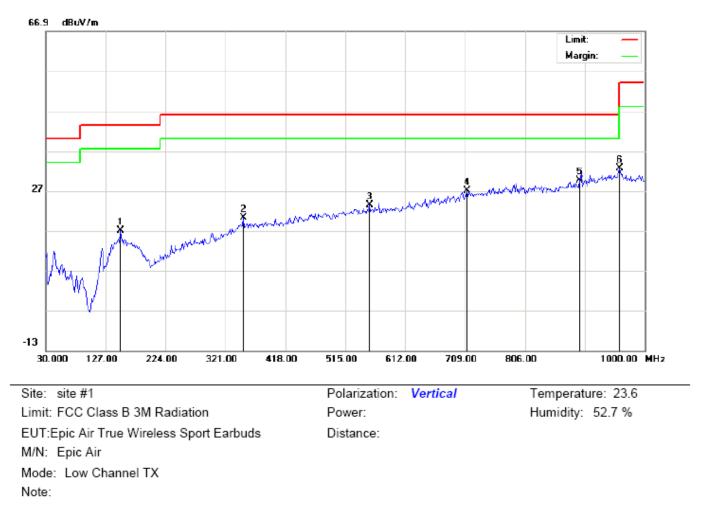
RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



Site: site #1 Limit: FCC Class B 3M Radiation EUT:Epic Air True Wireless Sport Earbuds M/N: Epic Air Mode: Low Channel TX Note:

Power: Distance: Temperature: 23.6 Humidity: 52.7 %

Antenna Table Reading Factor Measurement Limit Over Mk Freq. Height Degree No Detector Comment MHz dBu∨ dB/m dBuV/m dBu∀/m dB degree cm 1 141.5500 -0.38 14.82 14.44 43.50 -29.06 peak 2 366.2667 0.55 18.85 19.40 46.00 -26.60 peak 3 22.02 23.17 -22.83 532.7833 1.15 46.00 peak 4 681.5167 0.72 24.69 25.41 46.00 -20.59 peak 5 793.0667 1.34 27.22 28.56 46.00 -17.44 peak 29.94 31.30 6 956.3500 1.36 46.00 -14.70 peak



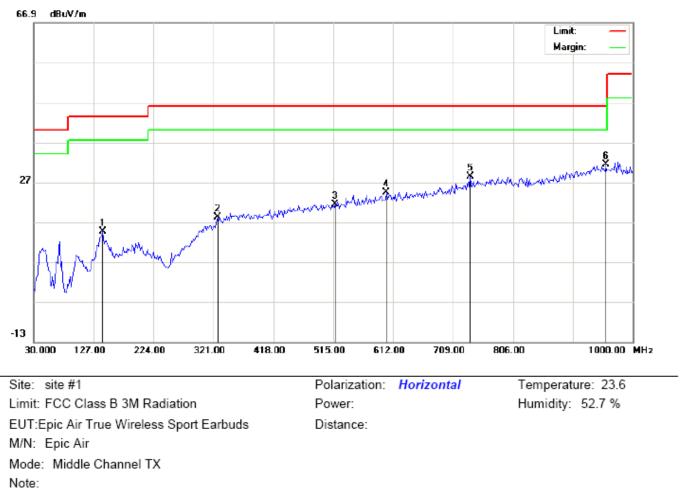
RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		151.2500	1.73	15.27	17.00	43.50	-26.50	peak			
2		350.1000	1.43	18.74	20.17	46.00	-25.83	peak			
3		553.8000	0.96	22.50	23.46	46.00	-22.54	peak			
4		712.2333	1.51	25.54	27.05	46.00	-18.95	peak			
5		894.9167	1.14	28.48	29.62	46.00	-16.38	peak			
6	*	959.5833	2.60	29.91	32.51	46.00	-13.49	peak			

RESULT: PASS

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

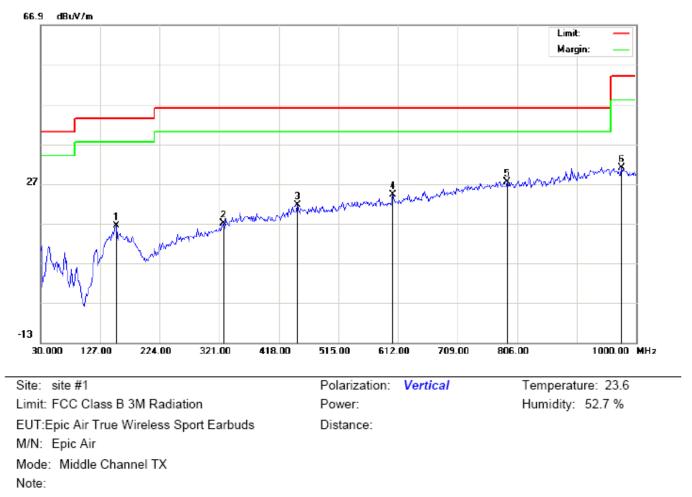
2. The "Factor" value can be calculated automatically by software of measurement system.



RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		141.5500	-0.19	14.82	14.63	43.50	-28.87	peak			
2		327.4667	0.92	17.24	18.16	46.00	-27.84	peak			
3		518.2333	-0.15	21.62	21.47	46.00	-24.53	peak			
4		600.6833	0.74	23.73	24.47	46.00	-21.53	peak			
5		736.4833	2.24	26.24	28.48	46.00	-17.52	peak			
6	*	956.3500	1.53	29.94	31.47	46.00	-14.53	peak			

RESULT: PASS

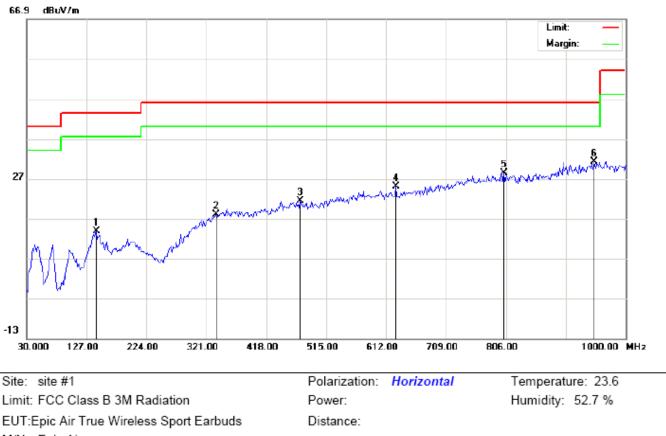


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		152.8667	1.15	15.28	16.43	43.50	-27.07	peak			
2		327.4667	-0.33	17.24	16.91	46.00	-29.09	peak			
3		448.7167	0.97	20.55	21.52	46.00	-24.48	peak			
4		603.9167	1.45	22.82	24.27	46.00	-21.73	peak			
5	*	789.8333	0.32	27.18	27.50	46.00	-18.50	peak			
6		975.7500	1.24	29.75	30.99	54.00	-23.01	peak			

RESULT: PASS

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

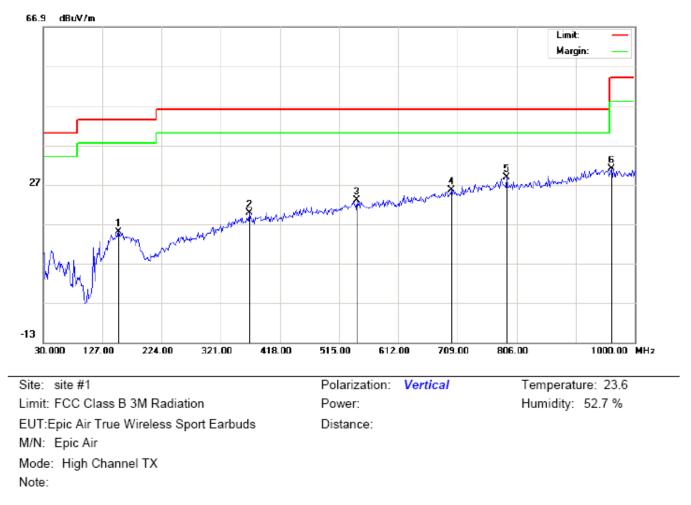
2. The "Factor" value can be calculated automatically by software of measurement system.



RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

Limit: FCC Class B 3M Radiation EUT:Epic Air True Wireless Sport Earbuds M/N: Epic Air Mode: High Channel TX Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		143.1667	-0.67	14.43	13.76	43.50	-29.74	peak			
2		337.1667	0.18	17.89	18.07	46.00	-27.93	peak			
3		472.9667	0.63	20.84	21.47	46.00	-24.53	peak			
4		628.1667	1.12	23.80	24.92	46.00	-21.08	peak			
5		802.7667	1.04	27.32	28.36	46.00	-17.64	peak			
6	*	948.2667	1.31	29.95	31.26	46.00	-14.74	peak			



RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		152.8667	-0.26	15.28	15.02	43.50	-28.48	peak			
2		367.8833	1.04	18.86	19.90	46.00	-26.10	peak			
3		544.1000	0.64	22.32	22.96	46.00	-23.04	peak			
4		699.3000	0.49	25.17	25.66	46.00	-20.34	peak			
5	*	789.8333	1.58	27.18	28.76	46.00	-17.24	peak			
6		961.2000	1.14	29.89	31.03	54.00	-22.97	peak			

RESULT: PASS

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

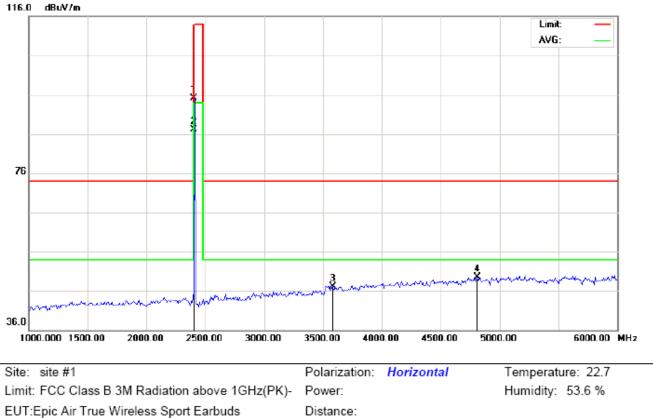
2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

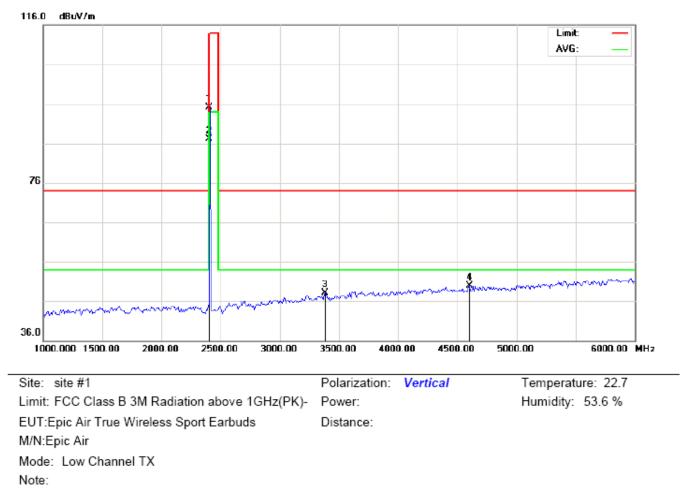
FOR BR/EDR

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



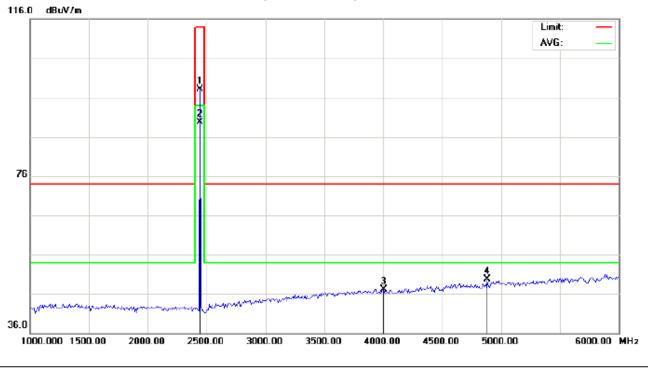
M/N:Epic Air Mode: Low Channel TX Note:

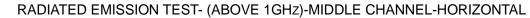
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2402.000	84.76	10.32	95.08	114.00	-18.92	peak			
2	*	2402.000	76.80	10.32	87.12	94.00	-6.88	AVG	150	137	
3		3583.333	34.57	12.62	47.19	74.00	-26.81	peak			
4		4808.333	41.73	7.70	49.43	74.00	-24.57	peak			



RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	84.80	10.32	95.12	114.00	-18.88	peak			
2	*	2402.000	76.84	10.32	87.16	94.00	-6.84	AVG	150	244	
3		3383.333	36.10	12.00	48.10	74.00	-25.90	peak			
4		4600.000	42.71	7.15	49.86	74.00	-24.14	peak			





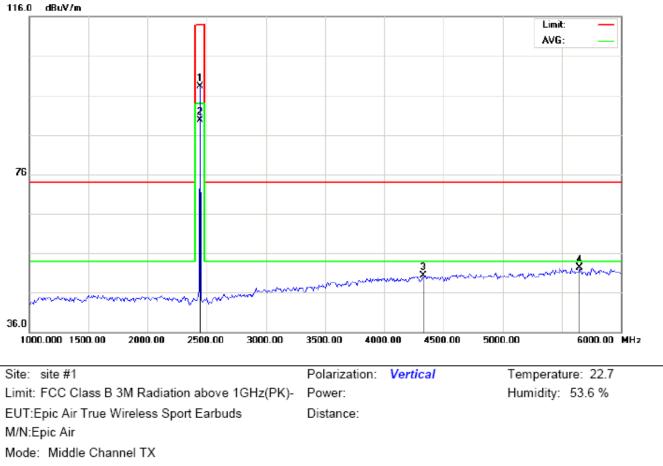
 Site:
 site #1
 Polarization:
 Horizontal
 Temperature:
 22.7

 Limit:
 FCC Class B 3M Radiation above 1GHz(PK) Power:
 Humidity:
 53.6 %

 EUT:Epic Air True Wireless Sport Earbuds
 Distance:
 M/N:Epic Air
 Vote:

 Mode:
 Middle Channel TX
 Note:
 Vote:

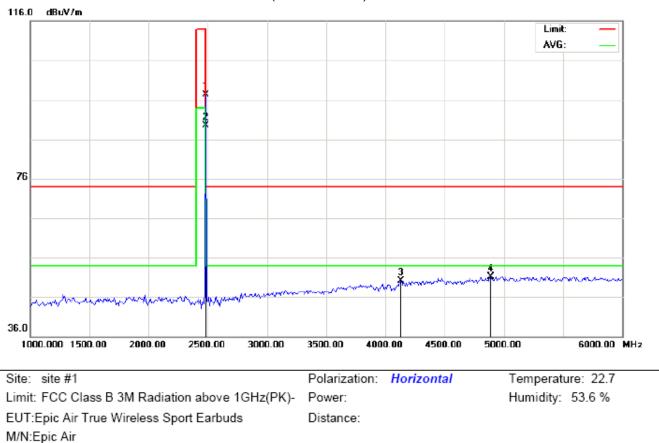
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2441.000	87.79	10.36	98.15	114.00	-15.85	peak			
2	*	2441.000	79.32	10.36	89.68	94.00	-4.32	AVG	150	241	
3		4000.000	31.90	15.19	47.09	74.00	-26.91	peak			
4		4883.333	41.88	7.89	49.77	74.00	-24.23	peak			



RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL

Note:

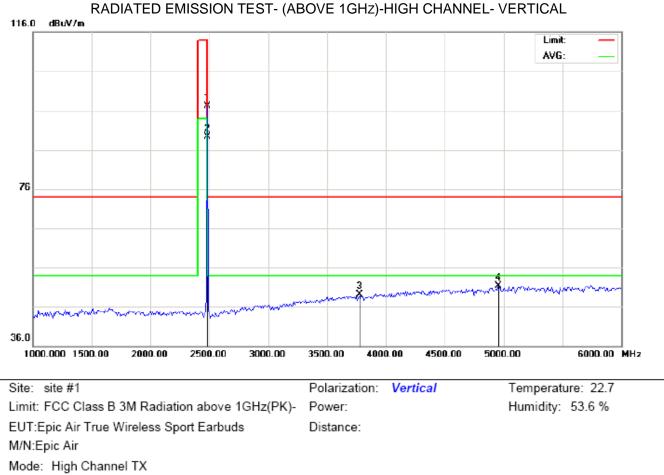
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2441.000	87.87	10.36	98.23	114.00	-15.77	peak			
2	*	2441.000	79.33	10.36	89.69	94.00	-4.31	AVG	150	294	
3		4333.333	40.66	9.66	50.32	74.00	-23.68	peak			
4		5650.000	53.97	-1.74	52.23	74.00	-21.77	peak			



RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

Mode: High Channel TX Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	86.91	10.41	97.32	114.00	-16.68	peak			
2	*	2480.000	79.01	10.41	89.42	94.00	-4.58	AVG	150	68	
3		4133.333	37.06	12.98	50.04	74.00	-23.96	peak			
4		4891.667	43.15	7.92	51.07	74.00	-22.93	peak			



Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	86.69	10.41	97.10	114.00	-16.90	peak			
2	*	2480.000	78.95	10.41	89.36	94.00	-4.64	AVG	100	318	
3		3775.000	35.24	13.80	49.04	74.00	-24.96	peak			
4		4958.333	43.20	8.09	51.29	74.00	-22.71	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	84.76	10.32	95.08	114	-18.92	Horizontal
2402	84.80	10.32	95.12	114	-18.88	Vertical
2441	87.79	10.36	98.15	114	-15.85	Horizontal
2441	87.87	10.36	98.23	114	-15.77	Vertical
2480	86.91	10.41	97.32	114	-16.68	Horizontal
2480	86.69	10.41	97.10	114	-16.90	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(MHz) (dBuv) (dB/m)		(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.80	10.32	87.12	94	-6.88	Horizontal
2402	76.84	10.32	87.16	94	-6.84	Vertical
2441	79.32	10.36	89.68	94	-4.32	Horizontal
2441	79.33	10.36	89.69	94	-4.31	Vertical
2480	79.01	10.41	89.42	94	-4.58	Horizontal
2480	78.95	10.41	89.36	94	-4.64	Vertical

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	84.33	10.32	94.65	114	-19.35	Horizontal
2402	84.36	10.32	94.68	114	-19.32	Vertical
2441	87.35	10.36	97.71	114	-16.29	Horizontal
2441	87.36	10.36	97.72	114	-16.28	Vertical
2480	86.47	10.41	96.88	114	-17.12	Horizontal
2480	86.49	10.41	96.90	114	-17.10	Vertical

Average value

Frequency	Reading Level			Limit	Over	Antenna
(MHz)	(MHz) (dBuv)		(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.27	10.32	86.59	94	-7.41	Horizontal
2402	76.30	10.32	86.62	94	-7.38	Vertical
2441	78.69	10.36	89.05	94	-4.95	Horizontal
2441	78.72	10.36	89.08	94	-4.92	Vertical
2480	78.50	10.41	88.91	94	-5.09	Horizontal
2480	78.52	10.41	88.93	94	-5.07	Vertical

3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	83.80	10.32	94.12	114	-19.88	Horizontal
2402	83.83	10.32	94.15	114	-19.85	Vertical
2441	86.88	10.36	97.24	114	-16.76	Horizontal
2441	86.90	10.36	97.26	114	-16.74	Vertical
2480	85.84	10.41	96.25	114	-17.75	Horizontal
2480	85.87	10.41	96.28	114	-17.72	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(MHz) (dBuv)		(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.78	10.32	86.10	94	-7.90	Horizontal
2402	75.82	10.32	86.14	94	-7.86	Vertical
2441	78.26	10.36	88.62	94	-5.38	Horizontal
2441	78.27	10.36	88.63	94	-5.37	Vertical
2480	77.93	10.41	88.34	94	-5.66	Horizontal
2480	77.95	10.41	88.36	94	-5.64	Vertical

10. BAND EDGE EMISSION

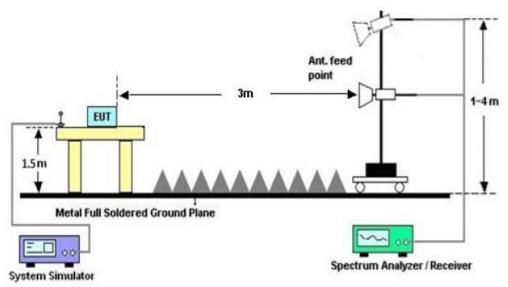
10.1. MEASUREMENT PROCEDURE

1The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2Max hold the trace of the setup 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

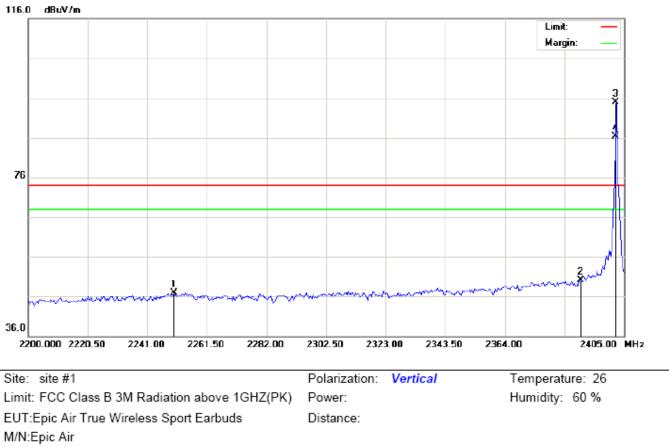
FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal 116.0 dBuV/m Limit: Margin: 76 ŝ 1 X 36.0 2200.000 2220.50 2241.00 2282.00 2323.00 2343.50 2364.00 2405.00 MHz 2261.50 2302.50 Site: site #1 Temperature: 26 Polarization: Horizontal Humidity: 60 % Power:

Limit: FCC Class B 3M Radiation above 1GHz(PK) EUT:Epic Air True Wireless Sport Earbuds M/N:Epic Air Mode: Low Channel TX Note:

Antenna Table Reading Measurement Freq. Factor Limit Over Mk Height Degree Detector Comment No. MHz dBu∨ dB/m dBuV/m dBuV/m dB cm degree 2298.058 40.19 10.21 50.40 74.00 -23.60 1 peak 2 2390.000 41.00 10.31 51.31 74.00 -22.69 peak 3 * 2402.000 84.70 21.02 10.32 95.02 74.00 peak 12.51 4 Х 2402.000 76.19 10.32 86.51 74.00 AVG 100 35

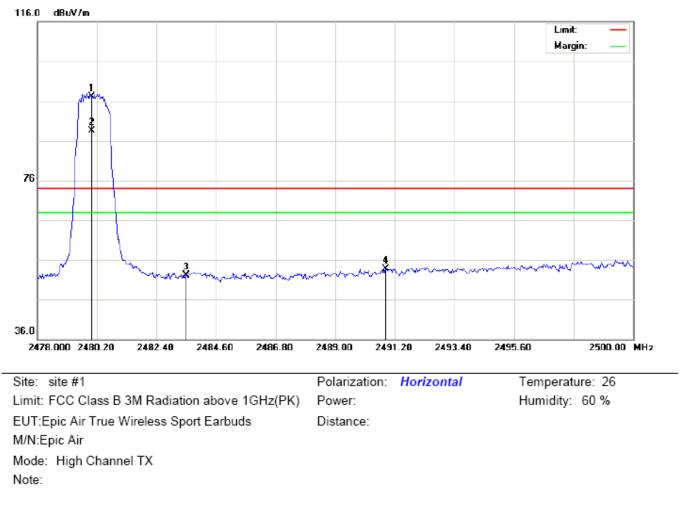
Distance:



TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

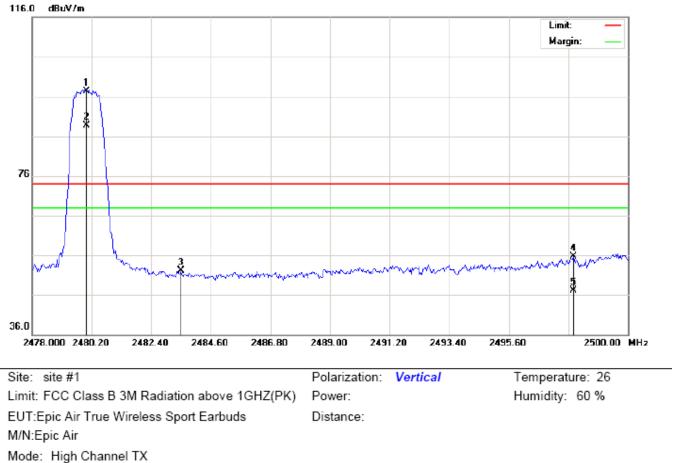
Mode: Low Channel TX Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2250.225	36.68	10.16	46.84	74.00	-27.16	peak			
2		2390.000	39.71	10.31	50.02	74.00	-23.98	peak			
3	*	2402.000	84.59	10.32	94.91	74.00	20.91	peak			
4	х	2402.000	76.07	10.32	86.39	74.00	12.39	AVG	100	65	



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	86.67	10.41	97.08	74.00	23.08	peak			
2	Х	2480.000	78.16	10.41	88.57	74.00	14.57	AVG	100	62	
3		2483.500	41.69	10.41	52.10	74.00	-21.90	peak			
4		2490.870	43.28	10.42	53.70	74.00	-20.30	peak			



TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector H	Antenna Height		Comment
	•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1	*	2480.000	86.82	10.41	97.23	74.00	23.23	peak			
2	Х	2480.000	78.28	10.41	88.69	74.00	14.69	AVG	100	89	
3		2483.500	41.76	10.41	52.17	74.00	-21.83	peak			
4		2497.983	45.25	10.43	55.68	74.00	-18.32	peak			
5		2497.983	36.72	10.43	47.15	74.00	-26.85	AVG	100	68	

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

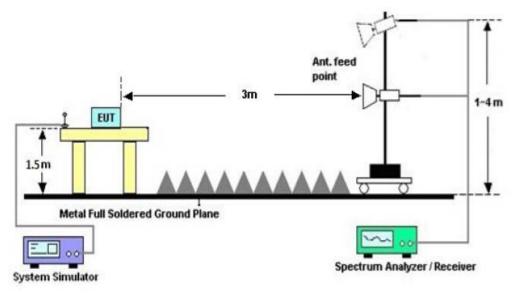
Hopping on mode and Hopping off mode have been tested, but only worst case reported.

11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel
- RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

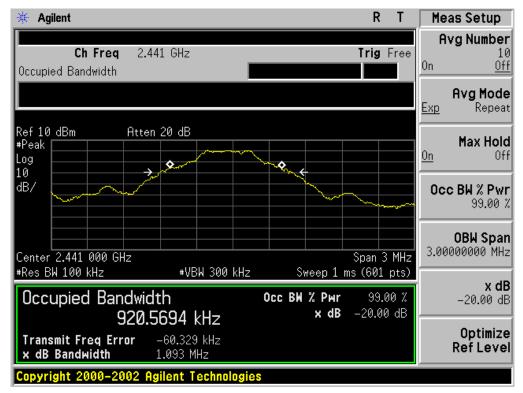
FOR BR/EDR

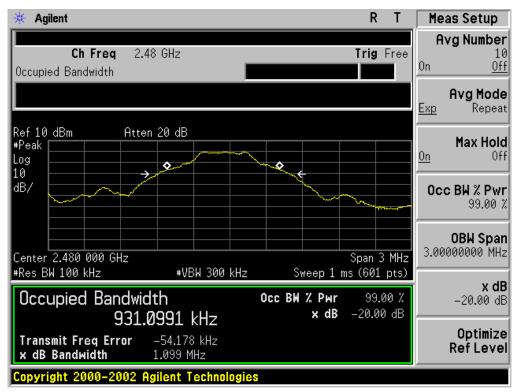
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		Decult							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
	Low Channel	0.937	1.095	PASS					
N/A	Middle Channel	0.921	1.093	PASS					
	High Channel	0.931	1.099	PASS					



TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

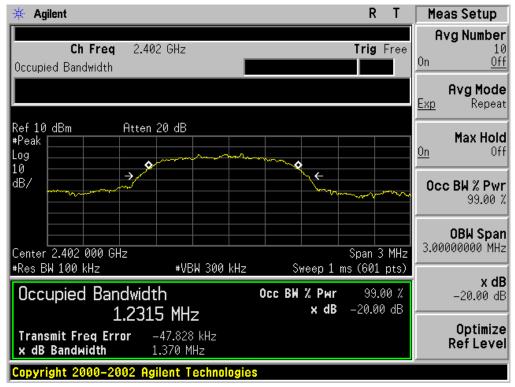


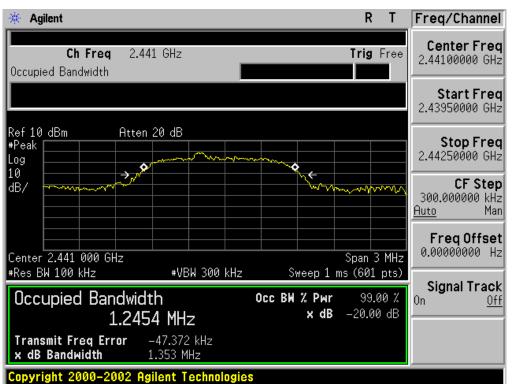


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT					
	Measurement Result				
Applicable Limits	Test Data (MHz)			Decult	
		99%OBW (MHz)	-20dB BW(MHz)	Result	
N/A	Low Channel	1.232	1.370	PASS	
	Middle Channel	1.245	1.353	PASS	
	High Channel	1.234	1.360	PASS	

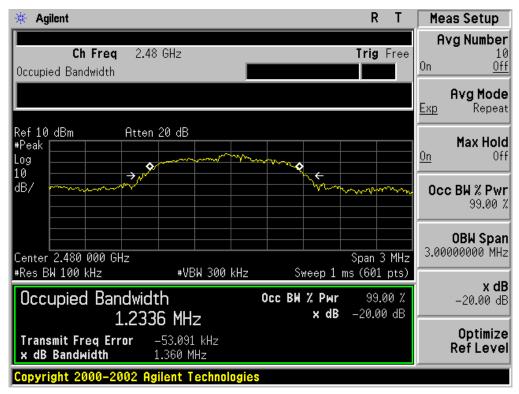
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





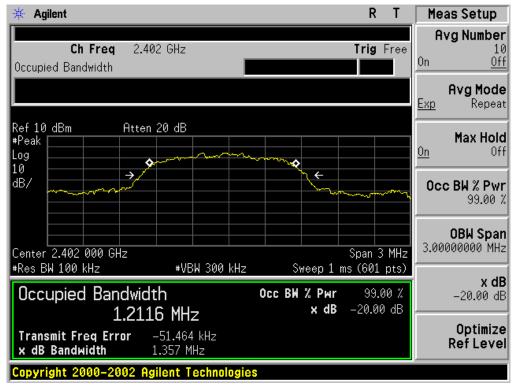
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

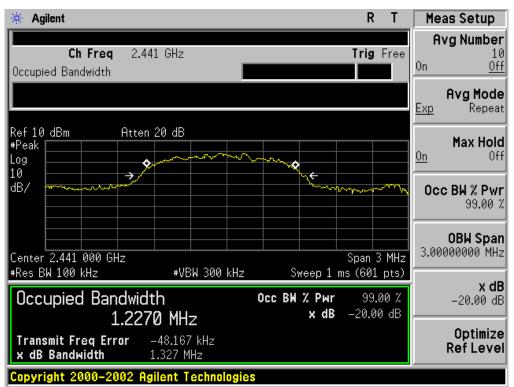
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT					
	Measurement Result				
Applicable Limits	Test Data (MHz)			Decult	
		99%OBW (MHz)	-20dB BW(MHz)	Result	
N/A	Low Channel	1.212	1.357	PASS	
	Middle Channel	1.227	1.327	PASS	
	High Channel	1.247	1.357	PASS	

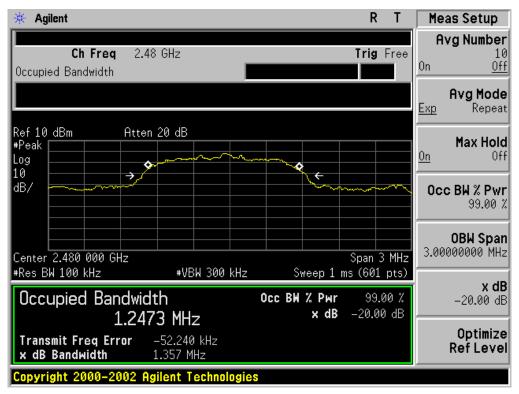
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

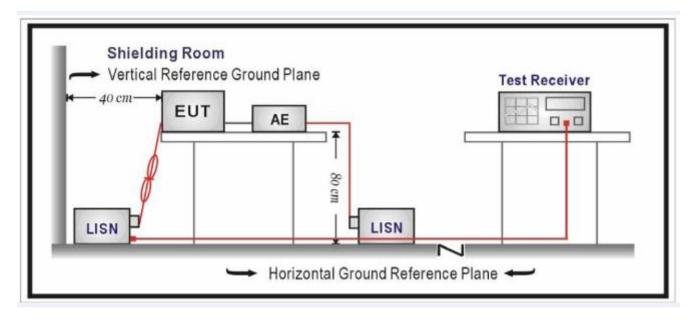
Frequency	Maximum RF Line Voltage			
Frequency	Q.P.(dBuV)	Average(dBuV)		
150kHz~500kHz	66-56	56-46		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

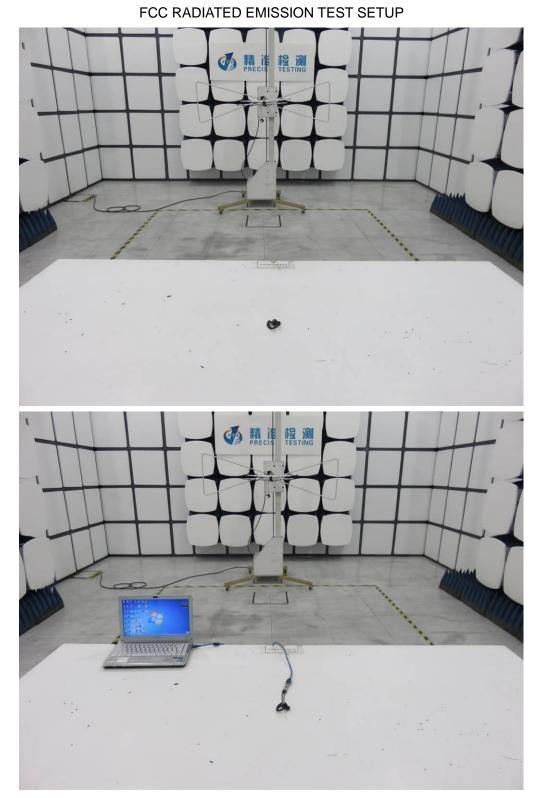
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

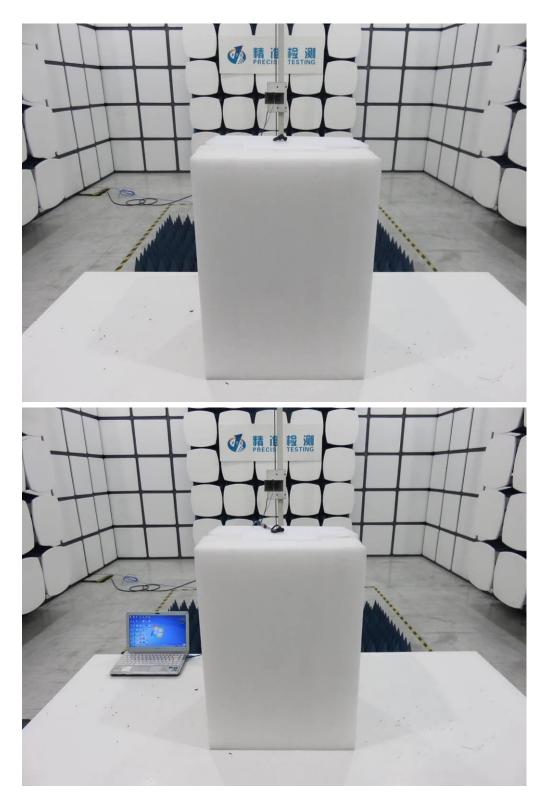
N/A

Note: The BT function of EUT didn't work when charging



APPENDIX A: PHOTOGRAPHS OF TEST SETUP

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0 2 50 10 40 30 50

APPENDIX B: PHOTOGRAPHS OF EUT

WHOLE VIEW OF EUT-1

WHOLE VIEW OF EUT-2



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TOP VIEW OF EUT

BOTTOM VIEW OF EUT



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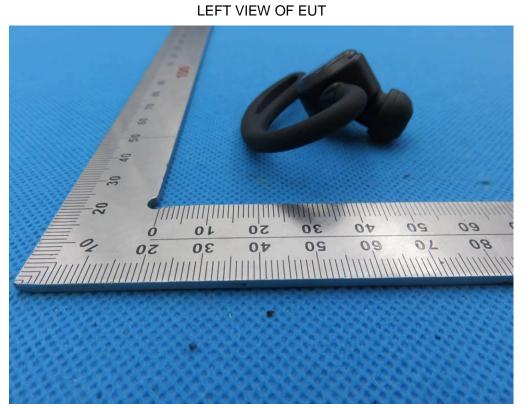


FRONT VIEW OF EUT

BACK VIEW OF EUT

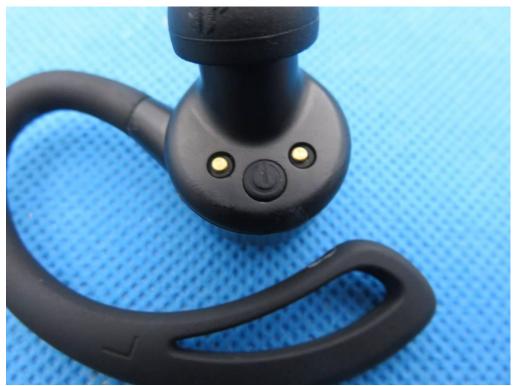


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RIGHT VIEW OF EUT

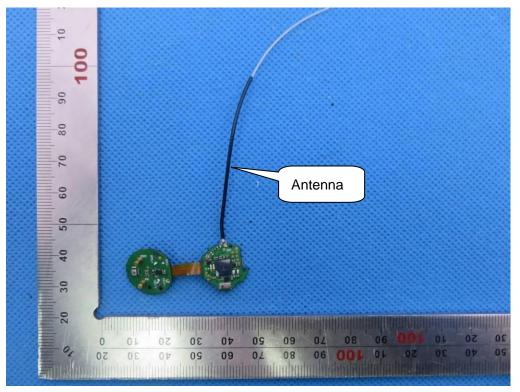




VIEW OF EUT (PORT)

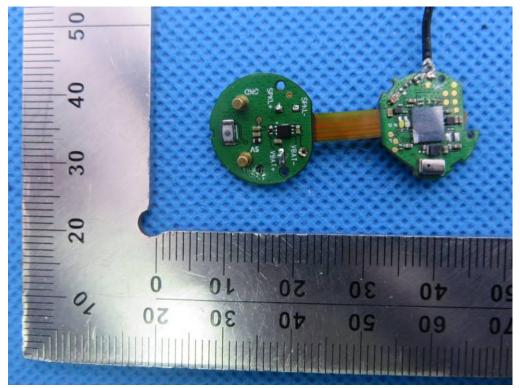
OPEN VIEW OF EUT

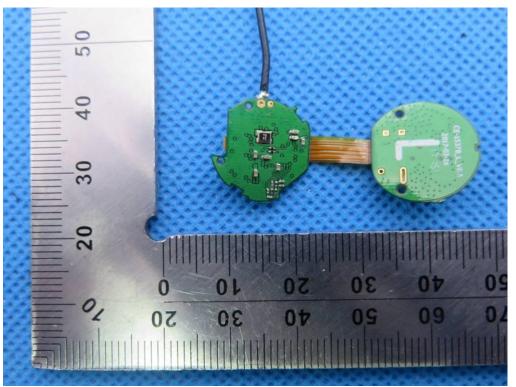




INTERNAL VIEW OF EUT-1

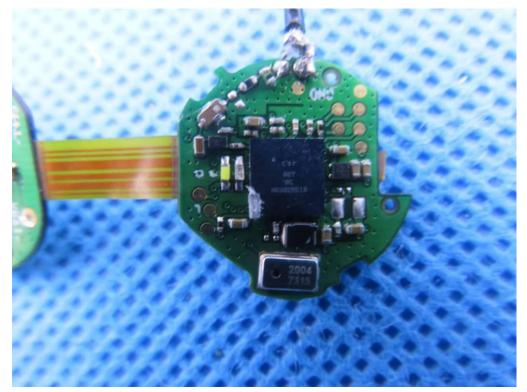
INTERNAL VIEW OF EUT-2

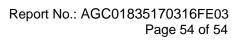




INTERNAL VIEW OF EUT-3

INTERNAL VIEW OF EUT-4







Charging Dock VIEW OF EUT(Port)-1

VIEW OF EUT(Port)-2



----END OF REPORT----