

Page 1 of 64

FCC Test Report

Report No.: AGC01559180538FE03

FCC ID	: 2AANZPCH
APPLICATION PURE	POSE : Original Equipment
PRODUCT DESIGNA	TION : WIRELESS EARBUDS
BRAND NAME	: НУРЕ
MODEL NAME	: HY-EU-PCH-BLK, HY-EU-PCH-WHT
CLIENT	: DGL Group LTD.
DATE OF ISSUE	: Jun. 12, 2018
STANDARD(S) TEST PROCEDURE(s) : FCC Part 15 Subpart C Section 15.249
REPORT VERSION	: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report No.: AGC01559180538FE03 Page 2 of 64

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jun. 12, 2018	Valid	Initial release

Report Revise Record

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Report No.: AGC01559180538FE03 Page 3 of 64

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION 2.2. TABLE OF CARRIER FREQUENCYS	5 5
3. MEASUREMENT UNCERTAINTY	6
4. DESCRIPTION OF TEST MODES	6
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM 5.2. EQUIPMENT USED IN EUT SYSTEM 5.3. SUMMARY OF TEST RESULTS	
6. TEST FACILITY	10
7.TEST METHOD	11
8. TEST EQUIPMENT LIST	11
9. RADIATED EMISSION	12
9.1TEST LIMIT 9.2. MEASUREMENT PROCEDURE 9.3. TEST SETUP 9.4. TEST RESULT	
10. BAND EDGE EMISSION	
10.1. MEASUREMENT PROCEDURE 10.2 TEST SETUP 10.3 RADIATED TEST RESULT	
11. 20DB BANDWIDTH	43
11.1. MEASUREMENT PROCEDURE 11.2. TEST SET-UP 11.3. LIMITS AND MEASUREMENT RESULTS	43 43 43
12. FCC LINE CONDUCTED EMISSION TEST	48
 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST 	48 48 49 49 49
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	50
APPENDIX B: PHOTOGRAPHS OF EUT	52

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Report No.: AGC01559180538FE03 Page 4 of 64

1. VERIFICATION OF CONFORMITY

Applicant	DGL Group LTD.		
Address	195 Raritan Center Parkway Edison, New Jersey United States 08837		
Manufacturer	DGL Group LTD.		
Address	195 Raritan Center Parkway Edison, New Jersey United States 08837		
Product Designation	WIRELESS EARBUDS		
Brand Name	HYPE		
Test Model	HY-EU-PCH-BLK		
Series Model	HY-EU-PCH-WHT		
Difference description	All the same except for the mode name and appearance color.		
Date of test	May 25, 2018 to Jun. 04, 2018		
Deviation	None		
Condition of Test Sample	Normal		
Report Template	AGCRT-US-BR/RF		
The sales			

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) 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. The test results of this report relate only to the tested sample identified in this report.

Ham Zhano

Tested By

Henry Zhang(Zhang Zhuorui) Jun. 04, 2018

well chang

Reviewed By

Cool Cheng(Cheng Mengguo) Jun.

Jun. 12, 2018

Forvest in

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 12, 2018

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2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-3.11dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery
Nates 4 The DT function	of ELIT didn't work when observing

Note: 1. The BT function of EUT didn't work when charging.

2. The EUT comprises left and right channel headsets, both are the same and have been tested. Only the test data of left headset recorded in this report.

3. The test model has two kinds of color samples, all recorded in the test report.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
e E Andread Colora Colora Colora	GC0 CO	2402MHz
	1	2403MHz
	The second second	
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
	H. Harden of H. Harden - C Ha	
	77	2479 MHz
	78	2480 MHz

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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%.

- Uncertainty of Conducted Emission, $Uc = \pm 3.2 \text{ dB}$
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
C The Lot Cool	Low channel GFSK		
2	Middle channel GFSK		
3	High channel GFSK		
4 K B	Low channel π /4-DQPSK		
Contraction of Column	Middle channel π /4-DQPSK		
6	High channel π /4-DQPSK		
7	BT Link		

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.

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Report No.: AGC01559180538FE03 Page 7 of 64



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Report No.: AGC01559180538FE03 Page 8 of 64

5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)



Control box

PC

5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
1	WIRELESS EARBUDS	HYPE	HY-EU-PCH-BLK	EUT
2	Battery	AFS	501015	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	GZUT	N/A	A.E
5	USB Cable	N/A	1m unshielded	A.E
6	IPOD	APPLE	A1421	A.E

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Report No.: AGC01559180538FE03 Page 9 of 64

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.

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP Lab Code	600153-0
Designation Number	CN5028
Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

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7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B		Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2017	Jun.19, 2018

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics	
Frequency	(millivolts/meter)	(microvolts/meter)	
900-928MHz	50	500	
2400-2483.5MHz	50 60 60	500	
5725-5875MHz	50	500	
24.0-24.25GHz	250	2500	

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit					
(MHz)	Meters	μ V/m	dB(µV)/m				
0.009 ~ 0.490	300	2400/F(kHz)	2				
0.490 ~ 1.705	30	24000/F(kHz)					
1.705 ~ 30	30	30	Constant Constant				
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. The Barrier CC	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(µV)/m				

Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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Report No.: AGC01559180538FE03 Page 13 of 64

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)
- 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)

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Report No.: AGC01559180538FE03 Page 14 of 64

	Spectrum Parameter	Setting
Jobal Comt.	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
CC T	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
6	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
	Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
	Receiver Parameter	Setting
	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
illi i	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
bal Compliance	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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

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Report No.: AGC01559180538FE03 Page 15 of 64

9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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Spectrum Analyzer / Receiver



Report No.: AGC01559180538FE03 Page 16 of 64



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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Report No.: AGC01559180538FE03 Page 17 of 64

9.4. TEST RESULT

FOR BR/EDR

(Worst modulation: π /4-DQPSK)

RADIATED EMISSION BELOW 30MHz

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

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Report No.: AGC01559180538FE03 Page 18 of 64

RADIATED EMISSION BELOW 1GHz

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



A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
54.735	Н	8.5	16.7	25.2	40.0	14.8	Pass	100.0	106.6
138.640	H 7.7 16.6 24.3 43.5		43.5	19.2	Pass	200.0	15.7		
378.230	н	6.1	20.0	26.1	46.0	19.9	Pass	100.0	70.5
473.775	Н	5.4	22.5	27.9	46.0	18.1	Pass	100.0	141.6
840.920	Н	5.5	29.4	34.9	46.0	11.1	Pass	200.0	123.9
974.780	Н	6.1	30.9	37.0	54.0	17.0	Pass	150.0	289.7

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
39.215	v	6.9	17.4	24.3	40.0	15.7	Pass	150.0	105.5
56.675	v	5.9	16.6	22.5	40.0	17.5	Pass	150.0	212.7
160.950	v	6.3	16.6	22.9	43.5	20.6	Pass	100.0	15.0
608.120	v	6.5	25.1	31.6	46.0	14.4	Pass	200.0	72.2
901.545	v	6.2	30.2	36.4	46.0	9.6	Pass	100.0	50.5
970.900	v	6.5	30.8	37.3	54.0	16.7	Pass	150.0	176.6

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.

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor Level Lim dB dB(u∨/m) dB(u∨ (1/m) PK QF		Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
56.190	Н	8.3	16.6	24.9	40.0	15.1	Pass	100.0	89.0
137.185	Н	6.5	16.6	23.1	43.5	20.4	Pass	200.0	212.0
436.430	н	5.2	21.8	27.0	46.0	19.0	Pass	150.0	252.2
734.220	Н	6.7	27.1	33.8	46.0	12.2	Pass	150.0	143.9
834.130	Н	7.1	29.3	36.4	46.0	9.6	Pass	200.0	104.3
931.615	Н	6.1	30.5	36.6	46.0	9.4	Pass	200.0	286.9

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
36.305	v	5.6	16.6	22.2	40.0	17.8	Pass	100.0	287.4
46.490	v	6.1	17.2	23.3	40.0	16.7	Pass	100.0	180.2
62.495	v	6.1	15.9	22.0	40.0	18.0	Pass	100.0	107.5
165.800	v	7.8	16.3	24.1	43.5	19.4	Pass	150.0	180.6
390.355	v	5.8	20.5	26.3	46.0	19.7	Pass	150.0	288.9
982.540	v	6.7	31.0	37.7	54.0	16.3	Pass	100.0	252.4

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.

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
56.675	н	6.6	16.6	23.2	40.0	16.8	Pass	150.0	328.3
152.705	н	7.3	16.6	23.9	43.5	19.6	Pass	150.0	144.6
447.100	н	5.2	22.0	27.2	46.0	18.8	Pass	150.0	144.6
660.500	Н	6.4	25.8	32.2	46.0	13.8	Pass	100.0	70.5
720.640	н	5.4	26.8	32.2	46.0	13.8	Pass	100.0	70.5
935.010	Н	6.4	30.5	36.9	46.0	9.1	Pass	100.0	70.5

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
44.065	v	5.8	17.3	23.1	40.0	16.9	Pass	100.0	92.6
62.495	v	5.8	15.9	21.7	40.0	18.3	Pass	100.0	92.6
161.435	v	7.9	16.6	24.5	43.5	19.0	Pass	100.0	92.6
703.180	v	6.0	26.4	32.4	46.0	13.6	Pass	200.0	183.4
871.475	v	5.2	29.9	35.1	46.0	10.9	Pass	150.0	179.7
993.695	v	5.1	31.1	36.2	54.0	17.8	Pass	100.0	92.6

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.

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Report No.: AGC01559180538FE03 Page 24 of 64

RADIATED EMISSION ABOVE 1GHz

FOR BR/EDR

(Worst modulation: π /4-DQPSK)

For Fundamental

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



94.00

·10.12

AVG

83.88

RESULT: PASS

2

2402.000

73.56

10.32

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233

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Report No.: AGC01559180538FE03 Page 25 of 64



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	dBuV/m	dB		cm	degree	
1		2402.000	81.07	10.32	91.39	114.00	-22.61	peak			
2	*	2402.000	73.04	10.32	83.36	94.00	-10.64	AVG	100	302	

RESULT: PASS

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

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	81.73	10.36	92.09	114.00	-21.91	peak			
2	*	2441.000	73.79	10.36	84.15	94.00	-9.85	AVG	100	258	

RESULT: PASS

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Report No.: AGC01559180538FE03 Page 27 of 64



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

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	81.27	10.36	91.63	114.00	-22.37	peak			
2	*	2441.000	73.24	10.36	83.60	94.00	-10.40	AVG	100	121	

RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Commer	nt
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
1		2480.000	81.11	10.41	91.52	114.00	-22.48	peak				
2	*	2480.000	73.13	10.41	83.54	94.00	-10.46	AVG	100	357		

RESULT: PASS

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Report No.: AGC01559180538FE03 Page 29 of 64



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

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		2480.000	80.68	10.41	91.09	114.00	-22.91	peak			
2	*	2480.000	72.65	10.41	83.06	94.00	-10.94	AVG	100		

RESULT: PASS

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

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

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Report No.: AGC01559180538FE03 Page 30 of 64

Field strength of the fundamental signal

2Mbps Result:

Peak value

Frequency		Reading Level	Factor	Factor Measurement		Over	Antenna
	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
	2402	81.53	10.32	91.85	114	-22.15	Horizontal
Q	2402	81.07	10.32	91.39	114	-22.61	Vertical
	2441	81.73	10.36	92.09	114	-21.91	Horizontal
	2441	81.27	10.36	91.63	114	-22.37	Vertical
	2480	81.11	10.41	91.52	114	-22.48	Horizontal
	2480	80.68	10.41	91.09	114	-22.91	Vertical
	A NOT					•	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.56	10.32	83.88	94 💿	-10.12	Horizontal
2402	73.04	10.32	83.36	94	-10.64	Vertical
2441	73.79	10.36	84.15	94	-9.85	Horizontal
2441	73.24	10.36	83.60	94	-10.40	Vertical
2480	73.13	10.41	83.54	94	-10.46	Horizontal
2480	72.65	10.41	83.06	94	-10.94	Vertical

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Report No.: AGC01559180538FE03 Page 31 of 64

1Mbps Result:

Peak value

Frequency	Reading Level	Factor Measurement		Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	81.06	10.32	91.38	114	-22.62	Horizontal
2402	80.59	10.32	90.91	114	-23.09	Vertical
2441	81.25	10.36	91.61	114	-22.39	Horizontal
2441	80.77	10.36	91.13	114	-22.87 👝	Vertical
2480	80.68	10.41	91.09	114	-22.91	Horizontal
2480	80.25	10.41	90.66	114	-23.34	Vertical
112	10°	CON11	2.	Alle	4	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.07	10.32	83.39	94	-10.61	Horizontal
2402	72.55	10.32	82.87	94 💿	-11.13	Vertical
2441	73.35	10.36	83.71	94	-10.29	Horizontal
2441	72.78	10.36	83.14	94	-10.86	Vertical
2480	72.67	10.41	83.08	94	-10.92	Horizontal
2480	72.21	10.41	82.62	94	-11.38	Vertical

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Report No.: AGC01559180538FE03 Page 32 of 64

FOR BR/EDR

(Worst modulation: π /4-DQPSK)

For Harmonics

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



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		1750.000	36.85	7.25	44.10	74.00	-29.90	peak			
2		3283.333	33.30	11.91	45.21	74.00	-28.79	peak			
3	*	4804.000	41.71	7.69	49.40	74.00	-24.60	peak			

RESULT: PASS

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Report No.: AGC01559180538FE03 Page 33 of 64



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	dBuV/m	dB		cm	degree	
1		2233.333	33.05	10.14	43.19	74.00	-30.81	peak			
2		3383.333	32.15	12.00	44.15	74.00	-29.85	peak			
3	*	4804.000	40.55	7.69	48.24	74.00	-25.76	peak			

RESULT: PASS

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Report No.: AGC01559180538FE03 Page 34 of 64



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

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		2425.000	33.76	10.35	44.11	74.00	-29.89	peak			
2		3616.667	31.42	12.83	44.25	74.00	-29.75	peak			
3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

RESULT: PASS

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Report No.: AGC01559180538FE03 Page 35 of 64



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

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		1775.000	36.72	7.51	44.23	74.00	-29.77	peak			
2		3491.667	33.15	12.10	45.25	74.00	-28.75	peak			
3	*	4882.000	41.89	7.89	49.78	74.00	-24.22	peak			

RESULT: PASS

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Report No.: AGC01559180538FE03 Page 36 of 64



RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH 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		1841.667	35.57	8.21	43.78	74.00	-30.22	peak			
2		3525.000	32.29	12.26	44.55	74.00	-29.45	peak			
3	*	4960.000	42.10	8.09	50.19	74.00	-23.81	peak			

RESULT: PASS

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Report No.: AGC01559180538FE03 Page 37 of 64



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

RESULT: PASS

4960.000

41.41

3

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

8.09

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

49.50

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

74.00

-24.50

peak

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Report No.: AGC01559180538FE03 Page 38 of 64

10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

1. The 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.

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

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

Start frequency(MHz)	Stop frequency(MHz)				
2200	2405				
2478	2500				

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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Report No.: AGC01559180538FE03 Page 39 of 64

10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: π /4-DQPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



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		2378.350	32.16	10.30	42.46	74.00	-31.54	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	40.47	10.32	50.79	74.00	-23.21	peak			
4	*	2402.000	81.41	10.32	91.73	74.00	17.73	peak			
5	Х	2402.000	73.44	10.32	83.76	74.00	9.76	AVG	100	256	

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Report No.: AGC01559180538FE03 Page 40 of 64



TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

-												
	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		2371.175	32.08	10.29	42.37	74.00	-31.63	peak			
	2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
	3		2400.000	35.56	10.32	45.88	74.00	-28.12	peak			
	4	*	2402.000	80.95	10.32	91.27	74.00	17.27	peak			
	5	Х	2402.000	72.93	10.32	83.25	74.00	9.25	AVG	100	157	

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Report No.: AGC01559180538FE03 Page 41 of 64



TEST PLOT OF BAND EDGE FOR HIGH 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	*	2480.000	80.99	10.41	91.40	74.00	17.40	peak			
	2	Х	2480.000	73.01	10.41	83.42	74.00	9.42	AVG	100	261	
	3		2483.500	32.69	10.41	43.10	74.00	-30.90	peak			
	4		2486.396	33.36	10.41	43.77	74.00	-30.23	peak			

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Report No.: AGC01559180538FE03 Page 42 of 64



TEST PLOT OF BAND EDGE FOR HIGH 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	*	2480.000	80.57	10.41	90.98	74.00	16.98	peak			
2	Х	2480.000	72.53	10.41	82.94	74.00	8.94	AVG	100	134	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2486.396	33.59	10.41	44.00	74.00	-30.00	peak			

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.

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Report No.: AGC01559180538FE03 Page 43 of 64

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 3RBW; 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		Desult						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
An a Compare C Alexandron of A	Low Channel	0.907	1.067	PASS				
N/A	Middle Channel	0.908	1.067	PASS				
	High Channel	0.917	1.058	PASS				

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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

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BLUET	OOTH 2MBPS LIN	ITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Decult							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The second second	Low Channel	1.206	1.379	PASS					
N/A	Middle Channel	1.208	1.377	PASS					
SGC	High Channel	1.207	1.362	PASS					

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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



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Report No.: AGC01559180538FE03 Page 49 of 64

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.

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Report No.: AGC01559180538FE03 Page 50 of 64

APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP



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Report No.: AGC01559180538FE03 Page 51 of 64



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Report No.: AGC01559180538FE03 Page 52 of 64



APPENDIX B: PHOTOGRAPHS OF EUT TOTAL VIEW OF EUT

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Report No.: AGC01559180538FE03 Page 53 of 64



BOTTOM VIEW OF EUT



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Report No.: AGC01559180538FE03 Page 54 of 64

BACK VIEW OF EUT



LEFT VIEW OF EUT



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Report No.: AGC01559180538FE03 Page 55 of 64

RIGHT VIEW OF EUT



Left VIEW OF EUT (Port)



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Report No.: AGC01559180538FE03 Page 56 of 64



VIEW OF BATTERY



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Report No.: AGC01559180538FE03 Page 57 of 64

INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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Report No.: AGC01559180538FE03 Page 58 of 64

INTERNAL VIEW OF EUT-3



Right VIEW OF EUT (Port)

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Report No.: AGC01559180538FE03 Page 59 of 64

OPEN VIEW OF EUT



VIEW OF BATTERY



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Report No.: AGC01559180538FE03 Page 60 of 64

INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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Report No.: AGC01559180538FE03 Page 61 of 64

INTERNAL VIEW OF EUT-3

Charging Dock TOP VIEW OF EUT



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Report No.: AGC01559180538FE03 Page 62 of 64

BOTTOM VIEW OF EUT



VIEW OF EUT (Port)-1



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Report No.: AGC01559180538FE03 Page 63 of 64

VIEW OF EUT (Port)-2

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Report No.: AGC01559180538FE03 Page 64 of 64

Series color Samples



6 50 30 40 20 60 10 80 a0 100 10 50 30 40 20 60 10 80 a0 500 10 50 30 40 20 60 10 80 a0 300 10 50 30 40 20 60 10



---END OF REPORT----

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