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Report No.: EED32I00153601

TEST REPORT

Product: Wireless portable speaker

Trade mark : ONKYO

Model/Type reference : OKAT3X/ZZ

("X"=A-Z or Nil, "ZZ" = 00-99)

Serial Number : N/A

Report Number : EED32I00153601 FCC ID : 2AANUOKAT3X Date of Issue : Jun. 06, 2016

Test Standards : 47 CFR Part 15 Subpart C (2015)

Test result : PASS

Prepared for:

Gibson Innovations Limited
5/F Philips Electronics Building, 5 Science Park East Ave, HK Science
Park, Shatin, NT, Hong Kong

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Compiled by:

Report Sea

R

Date:

Reviewed by:

Jun. 06, 2016

Sheek Luo

Lab supervisor

(3)

Check No.: 2384369953



















2 Version

Version No.	Date	Description
00	Jun. 06, 2016	Original
	(S) (d	















































































3 Test Summary

1651 Sullillary			
Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)		PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
Conducted Peak Output Power	· ·		PASS
20dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
Carrier Frequencies Separation	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
Hopping Channel Number	47 CFR Part 15 Subpart C Section 15.247 (b)	ANSI C63.10-2013	PASS
Dwell Time	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15 Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002)	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
Radiated Spurious emissions			
A BOAT OF	1027	The state of the s	1.60

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested sample(s) and the sample information are provided by the client.

Model No.: OKAT3X/ZZ("X"=A-Z or Nil, "ZZ" = 00-99)

Only the model OKAT3W/37 was tested, since the electrical circuit design, layout, components used and internal wiring are identical for the above models, with difference being model number and color of cabinet.

































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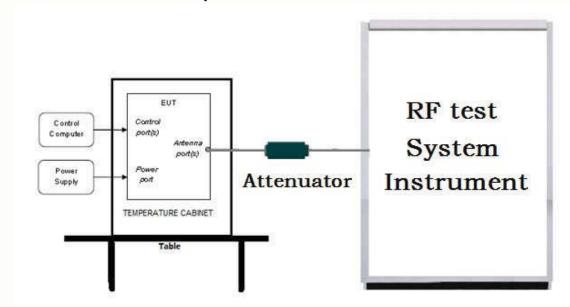


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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

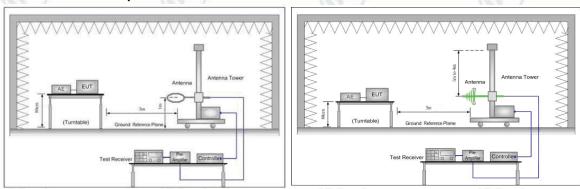


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

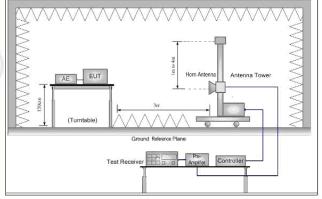


Figure 3. Above 1GHz







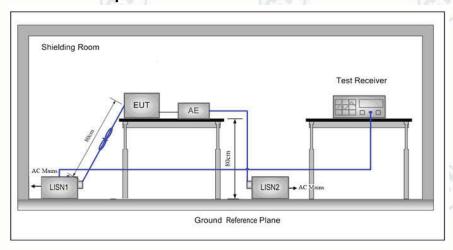








5.1.3 For Conducted Emissions test setup Conducted Emissions setup



5.2 Test Environment

Operating Environment:	0	100
Temperature:	21°C	
Humidity:	54% RH	
Atmospheric Pressure:	1010mbar	

5.3 Test Condition

Test Mode	Tv	RF Channel			
rest wode	18	Low(L)	Middle(M)	High(H)	
GFSK/π/4DQPSK/	2402MH= -2400 MH=	Channel 1	Channel 40	Channel79	
8DPSK(DH1,DH3,DH5)	2402MHz ~2480 MHz	2402MHz	2441MHz	2480MHz	

Through Pre-scan, 1-DH5 packet the power is the worst case of GFSK, 2-DH5 packet the power is the worst case of $\pi/4DQPSK$, 3-DH5 packet the power is the worst case of 8DPSK,













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6 General Information

6.1 Client Information

Applicant:	Gibson Innovations Limited
Address of Applicant:	5/F Philips Electronics Building, 5 Science Park East Ave, HK Science Park, Shatin, NT, Hong Kong
Manufacturer:	Gibson Innovations Limited
Address of Manufacturer:	5/F Philips Electronics Building, 5 Science Park East Ave, HK Science Park, Shatin, NT, Hong Kong
Factory:	Shenzhen 3NOD Digtal Technology Co., Ltd.
Address of Factory:	Building D Park, 8# Langhui Road, Tangxiayong Village Industrial Zone, Songgang Town, Baoan, Shenzhen, Guangdong, China

6.2 General Description of EUT

Product Name:	Wireless portable speaker					
Model No.:	OKAT3X/ZZ("X"=A-Z or Nil, "ZZ" = 00-99)	OKAT3X/ZZ("X"=A-Z or Nil, "ZZ" = 00-99)				
Test Mode No.:	OKAT3W/37	13		13		
Trade mark:	ONKYO	(62)		(62		
EUT Supports Radios application:	Bluetooth V3.0+EDR					
Power Supply:	- PL 305050*3 Li-ion 11.1V 800mAh 8.88wh + 150928 BPI		(45)			
Sample Received Date:	May 19, 2016					
Sample tested Date:	May 19, 2016 to Jun. 06, 2016					

6.3 Product Specification subjective to this standard

	7.8	\	1/18	\		-	18
Operation	Frequency:	2402MH	z~2480MHz)	(dN))	(6)
Bluetooth	Version:	3.0+EDR					6
Modulation	n Technique:	Frequenc	Frequency Hopping Spread Spectrum(FHSS)				
Modulation	n Type:	GFSK, π	GFSK, π/4DQPSK, 8DPSK				
Number of	Channel:	79	79				
Hopping C	hannel Type:	Adaptive	Frequency Ho	pping systen	ns	(6)	/
Sample Ty	rpe:	Portable	production				
Test Power Grade:		50 (manı	50 (manufacturer declare)				
Test Softw	are of EUT:	CSR (ma	CSR (manufacturer declare)				(28)
Antenna T	ype:	Internal	(0))	(0,0)		(6,
Antenna G	ain:	0.54dBi					
Test Volta	ge:	AC 120V	//60Hz				
Operation	Frequency ea	ch of channe	ıl	100	V.	7.0	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz

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5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

6.4 Description of Support Units

The EUT has been tested with associated equipment below: FCC DOC approved

Description	Manufacturer	Model No.	Supplied by
Mouse	L.Selectron	M004	CTI
laptop	lenovo	E46L	СТІ

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China518101

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

6.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

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FCC-Registration No.: 886427

Centre Testing International (Shenzhen) Corporation. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

IC-Registration No.: 7408A-2

The 3m Alternate Test Site of Centre Testing International (Shenzhen) Corporation. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2.

IC-Registration No.: 7408B-1

The 10m Alternate Test Site of Centre Testing International (Shenzhen) Corporation., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of

Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

6.7 Deviation from Standards

None.

6.8 Abnormalities from Standard Conditions None.

6.9 Other Information Requested by the Customer

None.











6.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
0	ZODE annua anatust d	0.31dB (30MHz-1GHz)
2	RF power, conducted	0.57dB (1GHz-18GHz)
_	De dieta di Considera a sociazione de ad	4.5dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.8dB (1GHz-12.75GHz)
		3.6dB (9kHz to 150kHz)
4	Conduction emission	3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%





















































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7 Equipment List

		RF test	system		
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Signal Generator	Keysight	E8257D	MY53401106	04-01-2016	03-31-2017
Communication test set	Agilent	N4010A	MY51400230	04-01-2016	03-31-2017
Spectrum Analyzer	Keysight	N9010A	MY54510339	04-01-2016	03-31-2017
Signal Generator	Keysight	N5182B	MY53051549	04-01-2016	03-31-2017
High-pass filter(3- 18GHz)	Sinoscite	FL3CX03WG18 NM12-0398-002		01-12-2016	01-11-2017
High-pass filter(6- 18GHz)	MICRO- TRONICS	SPA-F-63029-4	(C.)	01-12-2016	01-11-2017
band rejection filter (GSM900)	Sinoscite	FL5CX01CA09C L12-0395-001		01-12-2016	01-11-2017
band rejection filter (GSM850)	Sinoscite	FL5CX01CA08C L12-0393-001		01-12-2016	01-11-2017
band rejection filter (GSM1800)	Sinoscite	FL5CX02CA04C L12-0396-002		01-12-2016	01-11-2017
band rejection filter (GSM1900)	Sinoscite	FL5CX02CA03C L12-0394-001	(3)	01-12-2016	01-11-2017
DC Power	Keysight	E3642A	MY54436035	04-01-2016	03-31-2017
PC-1	Lenovo	R4960d		04-01-2016	03-31-2017
BT&WI-FI Automatic control	R&S	OSP120	101374	04-01-2016	03-31-2017
RF control unit	JS Tonscend	JS0806-2	158060006	04-01-2016	03-31-2017
BT&WI-FI Automatic test software	JS Tonscend	JS1120-2		04-01-2016	03-31-2017

Conducted disturbance Test							
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Receiver	R&S	ESCI	100009	06-30-2015	06-28-2016		
Temperature/ Humidity Indicator	Belida	TT-512	101	07-09-2015	07-07-2016		
Communication test set	Agilent	E5515C	GB47050534	04-01-2016	03-31-2017		
Communication test set	R&S	CMW500	152394	04-01-2016	03-31-2017		
LISN	R&S	ENV216	100098	06-30-2015	06-28-2016		
LISN	schwarzbeck	NNLK8121	8121-529	06-30-2015	06-28-2016		
Voltage Probe	R&S	ESH2-Z3	100042	07-09-2014	07-08-2017		
Current Probe	R&S	EZ17	100106	07-09-2014	07-08-2017		
ISN	TESEQ GmbH	ISN T800	30297	01-29-2015	01-27-2017		













	3M	Semi/full-anech	oic Chamber		
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3		06-02-2014	06-01-2017
TRILOG Broadband Antenna	SCHWARZBECK	VULB9163	9163-484	05-25-2015	05-23-2016
TRILOG Broadband Antenna	SCHWARZBECK	VULB9163	9163-484	05-23-2016	05-22-2017
Microwave Preamplifier	Agilent	8449B	3008A02425	02-04-2016	02-03-2017
Horn Antenna	ETS-LINDGREN	3117	00057410	06-30-2015	06-28-2018
Loop Antenna	ETS	6502	00071730	07-30-2015	07-28-2017
Spectrum Analyzer	R&S	FSP40	100416	06-30-2015	06-28-2016
Receiver	R&S	ESCI	100435	06-30-2015	06-28-2016
Multi device Controller	maturo	NCD/070/10711 112		01-12-2016	01-11-2017
LISN	schwarzbeck	NNBM8125	81251547	06-30-2015	06-28-2016
LISN	schwarzbeck	NNBM8125	81251548	06-30-2015	06-28-2016
Signal Generator	Agilent	E4438C	MY45095744	04-01-2016	03-31-2017
Signal Generator	Keysight	E8257D	MY53401106	04-01-2016	03-31-2017
Temperature/ Humidity Indicator	TAYLOR	1451	1905	07- 08-2015	07-06-2016
Communication test set	Agilent	E5515C	GB47050534	04-01-2016	03-31-2017
Cable line	Fulai(7M)	SF106	5219/6A	01-12-2016	01-11-2017
Cable line	Fulai(6M)	SF106	5220/6A	01-12-2016	01-11-2017
Cable line	Fulai(3M)	SF106	5216/6A	01-12-2016	01-11-2017
Cable line	Fulai(3M)	SF106	5217/6A	01-12-2016	01-11-2017
Communication test set	R&S	CMW500	152394	04-01-2016	03-31-2017
High-pass filter(3- 18GHz)	Sinoscite	FL3CX03WG18 NM12-0398-002	(A)	01-12-2016	01-11-2017
High-pass filter(6- 18GHz)	MICRO- TRONICS	SPA-F-63029-4	(6)	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA09 CL12-0395-001		01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA08 CL12-0393-001		01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX02CA04 CL12-0396-002		01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX02CA03 CL12-0394-001		01-12-2016	01-11-2017















8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15C (2015)	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices

St Results List:	\C.*	(600)	100		
Test requirement	Test method	Test item	Verdict	Note	
Part15C Section 15.247 (a)(1)	ANSI 63.10	20dB Occupied Bandwidth	PASS	Appendix A)	
Part15C Section 15.247 (a)(1)	ANSI 63.10	Carrier Frequencies Separation	PASS	Appendix B)	
Part15C Section 15.247 (a)(1)	ANSI 63.10	Dwell Time	PASS	Appendix C)	
Part15C Section 15.247 (b)	ANSI 63.10	Hopping Channel Number	PASS	Appendix D)	
Part15C Section 15.247 (b)(1)	ANSI 63.10	Conducted Peak Output Power	PASS	Appendix E)	
Part15C Section 15.247(d)	ANSI 63.10	Band-edge for RF Conducted Emissions	PASS	Appendix F)	
Part15C Section 15.247(d)	ANSI 63.10	RF Conducted Spurious Emissions	PASS	Appendix G)	
Part15C Section 15.247 (a)(1)	ANSI 63.10	Pseudorandom Frequency Hopping Sequence	PASS	Appendix H)	
Part15C Section 15.203/15.247 (c)	ANSI 63.10	Antenna Requirement	PASS	Appendix I)	
Part15C Section 15.207	ANSI 63.10	AC Power Line Conducted Emission	PASS	Appendix J)	
Part15C Section 15.205/15.209	ANSI 63.10	Restricted bands around fundamental frequency (Radiated) Emission)	PASS	Appendix K)	
Part15C Section 15.205/15.209	ANSI 63.10	Radiated Spurious Emissions	PASS	Appendix L)	











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Appendix A): 20dB Occupied Bandwidth

Test Result

Mode	Channel.	20dB Bandwidth [MHz]	99% OBW [MHz]	Verdict	Remark
GFSK	LCH	0.9443	0.87484	PASS	0
GFSK	MCH	0.9421	0.85722	PASS	
GFSK	НСН	0.9388	0.85165	PASS	
π/4DQPSK	LCH	1.262	1.1681	PASS	(2)
π/4DQPSK	MCH	1.226	1.1630	PASS	Peak detector
π/4DQPSK	НСН	1.228	1.1649	PASS	
8DPSK	LCH	1.275	1.1610	PASS	(3)
8DPSK	MCH	1.256	1.1563	PASS	(67)
8DPSK	НСН	1.257	1.1575	PASS	































































Test Graph



























































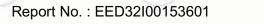
















Appendix B): Carrier Frequency Separation

Result Table

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
GFSK	LCH	0.994	PASS
GFSK	MCH	0.996	PASS
GFSK	НСН	0.996	PASS
π/4DQPSK	LCH	1.002	PASS
π/4DQPSK	MCH	0.980	PASS
π/4DQPSK	нсн	1.014	PASS
8DPSK	LCH	1.014	PASS
8DPSK	MCH	1.140	PASS
8DPSK	НСН	1.144	PASS



























































Test Graph











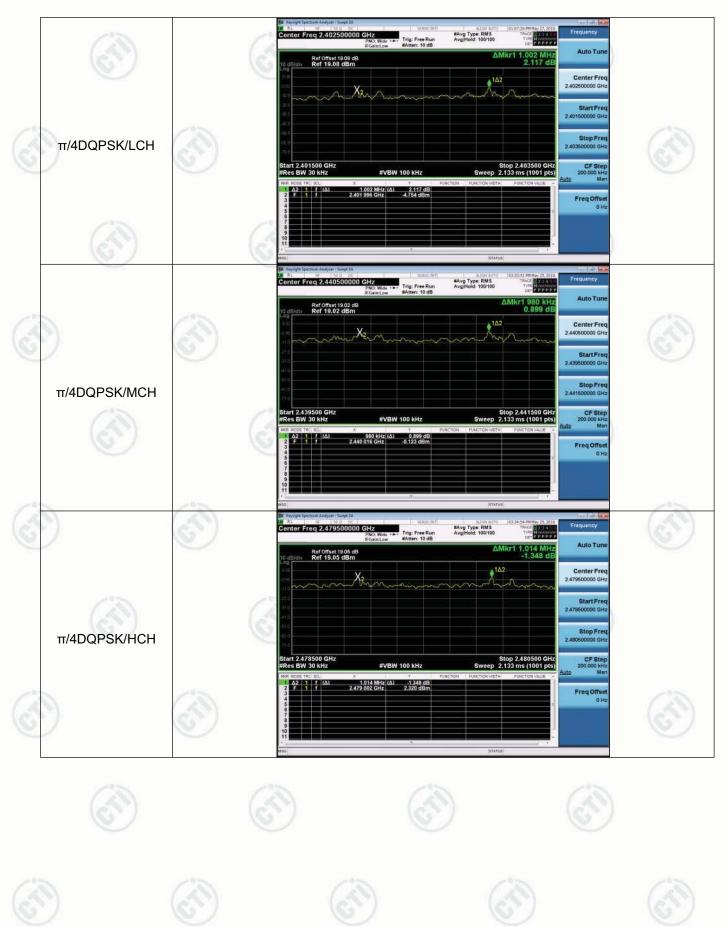






































Appendix C): Dwell Time

Result Table



Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Duty Cycle [%]	Verdict
GFSK	DH1	LCH	0.407863	320	0.131	0.33	PASS
GFSK	DH1	MCH	0.4091333	320	0.131	0.33	PASS
GFSK	DH1	НСН	0.40913	320	0.131	0.33	PASS
GFSK	DH3	LCH	0.86387	160	0.138	0.69	PASS
GFSK	DH3	MCH	0.865133	160	0.138	0.69	PASS
GFSK	DH3	нсн	0.865133	160	0.138	0.69	PASS
GFSK	DH5	LCH	2.912067	106.7	0.311	0.78	PASS
GFSK	DH5	MCH	2.91206	106.7	0.311	0.78	PASS
GFSK	DH5	нсн	2.91333	106.7	0.311	0.78	PASS

Remark : All modes are tested, only the worst mode GFSK is reported.



















































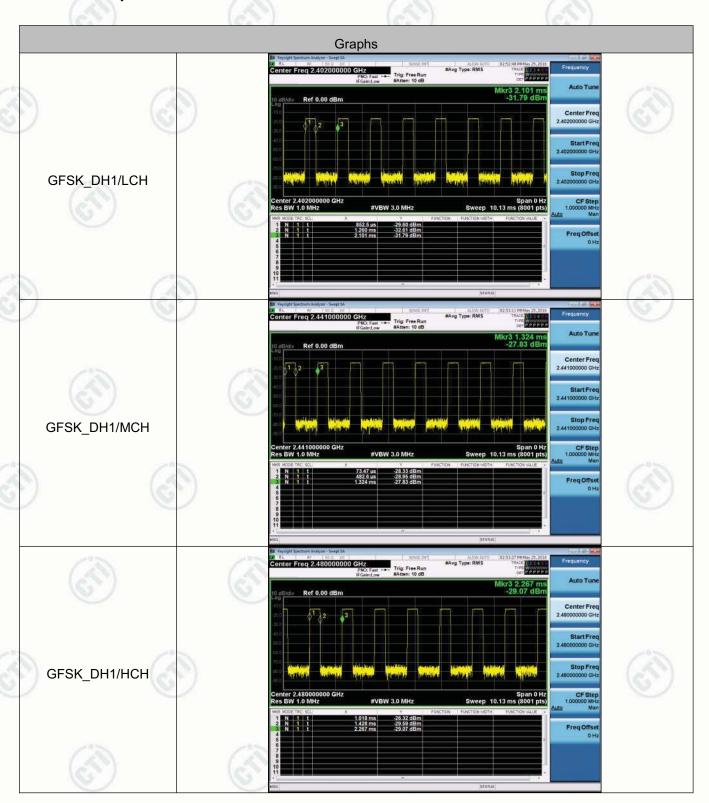








Test Graph































Ref 0.00 dBm GFSK_DH5/LCH 671.3 µs 3.583 ms 4.421 ms -30.61 dBm -31.51 dBm -32.19 dBm GFSK_DH5/MCH

Trig: Free Run GFSK_DH5/HCH -27.54 dBm -28.61 dBm -26.18 dBm







-27.44 dBm -27.20 dBm -29.27 dBm

1.491 ms 4.403 ms 5.240 ms















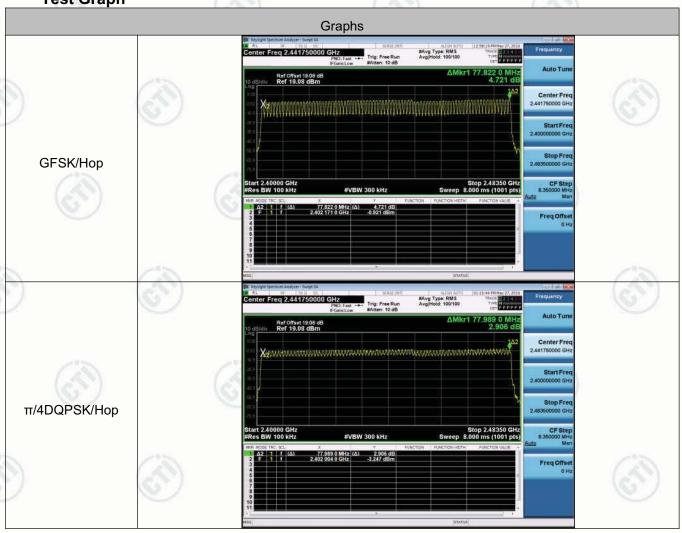
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Appendix D): Hopping Channel Number

Result Table

Mode	Channel.	Number of Hopping Channel	Verdict
GFSK	Нор	79	PASS
π/4DQPSK	Нор	79	PASS
8DPSK	Нор	79	PASS

Test Graph











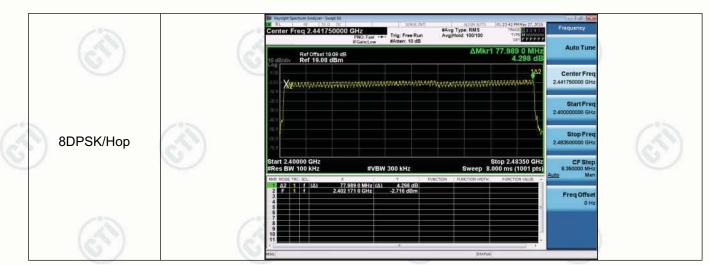


















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Appendix E): Conducted Peak Output Power

Result Table

Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict	
GFSK	LCH	3.167	PASS	
GFSK	MCH	5.128	PASS	
GFSK	НСН	5.879	PASS	
π/4DQPSK	LCH	0.445	PASS	
π/4DQPSK	MCH	3.448	PASS	
π/4DQPSK	нсн	4.438	PASS	
8DPSK	LCH	0.801	PASS	
8DPSK	MCH	3.735	PASS	
8DPSK	НСН	4.743	PASS	









































Test Graph











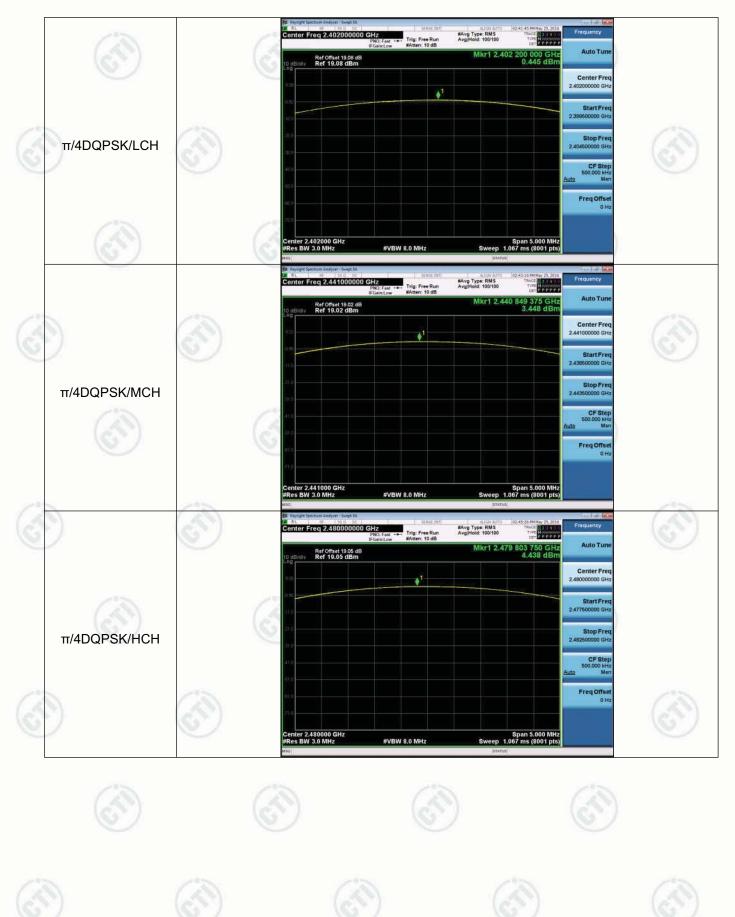










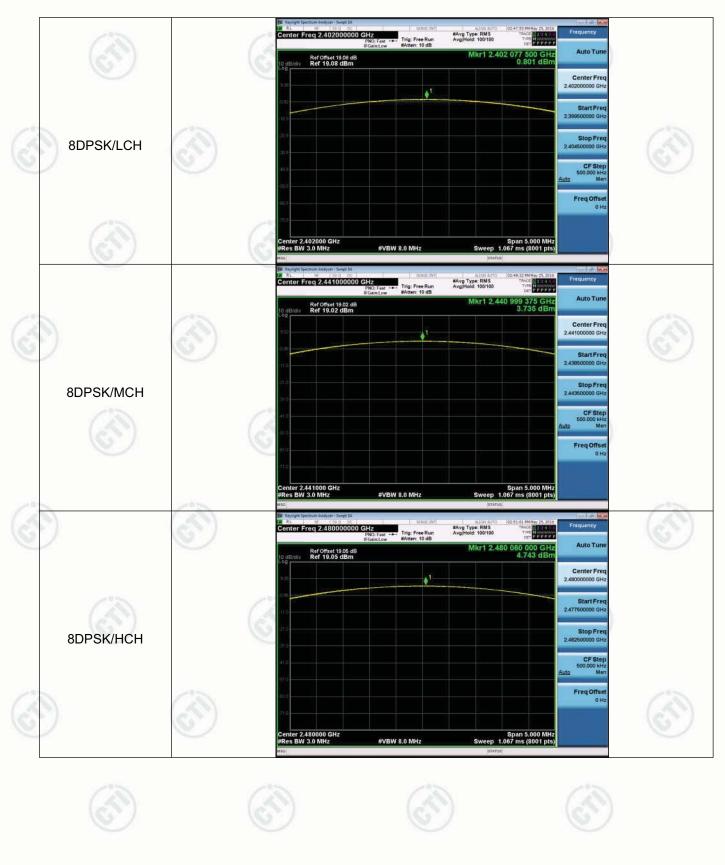












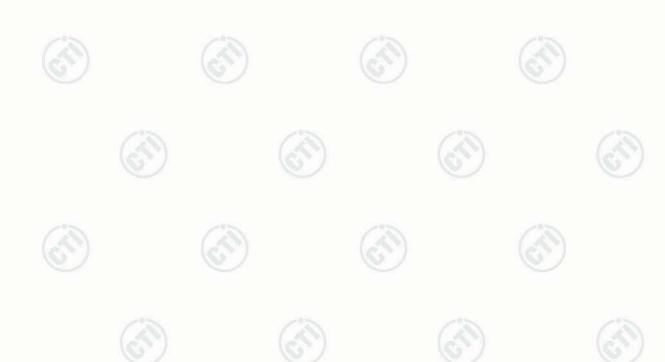


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Appendix F): Band-edge for RF Conducted Emissions

Result Table

Nesult Table								
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
0501		0.400	2.505	Off	-60.971	-17.5	PASS	
GFSK	LCH	2402	2.674	On	-56.674	-17.33	PASS	
0501/		0.400	5.704	Off	-57.465	-14.3	PASS	
GFSK	HCH	HCH	HCH 2480	5.708	On	-47.858	-14.29	PASS
45.0504		(650)	-1.162	Off	-61.359	-21.16	PASS	
π/4DQPSK	LCH	LCH 2402	0.247	On	-59.355	-19.75	PASS	
/4D 0 D 0 I /		0.400	2.989	Off	-57.320	-17.01	PASS	
π/4DQPSK	HCH	2480	2.733	On	-50.216	-17.27	PASS	
) annour	(6,2)	0.400	-1.165	Off	-61.314	-21.17	PASS	
8DPSK	LCH	2402	0.710	On	-58.167	-19.29	PASS	
00001		0.400	3.037	Off	-59.125	-16.96	PASS	
8DPSK	HCH	2480	2.897	On	-49.696	-17.1	PASS	

























































Appendix G): RF Conducted Spurious Emissions

Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	2.473	<limit< td=""><td>PASS</td></limit<>	PASS
GFSK	MCH	4.806	<limit< td=""><td>PASS</td></limit<>	PASS
GFSK	НСН	5.651	<limit< td=""><td>PASS</td></limit<>	PASS
π/4DQPSK	LCH	-1.267	<limit< td=""><td>PASS</td></limit<>	PASS
π/4DQPSK	MCH	1.825	<limit< td=""><td>PASS</td></limit<>	PASS
π/4DQPSK	нсн	2.846	<limit< td=""><td>PASS</td></limit<>	PASS
8DPSK	LCH	-1.162	<limit< td=""><td>PASS</td></limit<>	PASS
8DPSK	MCH	1.908	<limit< td=""><td>PASS</td></limit<>	PASS
8DPSK	НСН	3.006	<limit< td=""><td>PASS</td></limit<>	PASS

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Test Graph



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