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Release Control Record Issue No. Description **Date Issued** Original Release Jan. 15, 2016 RF151222C07-4



Certificate of Conformity						
Product:	preface					
Brand:	Kyocera					
Test Model:	C6743					
Sample Status:	Identical Prototype					
Applicant:	Kyocera Corporation c/o Kyocera Communications, Inc.					
Test Date:	Dec. 29, 2015 ~ Jan. 06, 2016					
Standards:	47 CFR FCC Part 15, Subpart C (Section 15.247)					
	ANSI C63.10:2013					

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

1

Prepared by : ________, Date: _______, Jan. 15, 2016

Stenley Mu

, Date: Jan. 15, 2016

Approved by :

Stanley Wu / Assistant Manager



2 Summary of Test Results

	47 CFR FCC Part 15, Subpart C (Section 15.247)								
FCC Clause	Test Item	Result	Remarks						
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -16.09 dB at 6.05410 MHz.						
15.247(a)(1) (iii)			Meet the requirement of limit.						
15.247(a)(1) (iii) Dwell Time on Each Channel		Pass	Meet the requirement of limit.						
15.247(a)(1)	 Hopping Channel Separation Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System 	Pass	Meet the requirement of limit.						
15.247(b)	Maximum Peak Output Power	Pass	Meet the requirement of limit.						
15.205 & 209	15.205 & 209 Radiated Emissions		Meet the requirement of limit. Minimum passing margin is -6 dB at 47.55 MHz.						
15.247(d)	15.247(d) Band Edge Measurement		Meet the requirement of limit.						
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.						
15.203	Antenna Requirement	Pass	No antenna connector is used.						

NOTE: If The Frequency Hopping System operating in 2400-2483.5 MHz band and the output power less than 125 mW. The hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of hopping channel whichever is greater.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Frequency	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.0153 dB
hadiated Emissions up to 1 GHz	200 MHz ~1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

Product	preface
Brand	Kyocera
Test Model	C6743
Status of EUT	Identical Prototype
Power Supply Rating	5.0 Vdc (adapter or host equipment) 3.8 Vdc (Li-ion battery)
Modulation Type	GFSK, π/4-DQPSK, 8DPSK
Transfer Rate	1/2/3 Mbps
Operating Frequency	2402 ~ 2480 MHz
Number of Channel	79
Output Power	1.774 mW
Antenna Type	Fixed Internal antenna with -0.9 dBi gain
Antenna Connector	N/A
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	KYOCERA	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	I/P: 100-240Vac, 50/60Hz, 0.2A O/P: 5Vdc, 1A
USB Cable	KYOCERA	SCP-19SDC	0.5m shielded cable w/o core

2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 Description of Test Modes

79 channels are provided to this EUT:

Channel	Freq. (MHz)						
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		



3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure		Applic	able To		Description
Mode	RE≥1G	RE<1G	PLC	APCM	Description
-	\checkmark	\checkmark	\checkmark	\checkmark	-
Where RI	≥1G: Radiated Emission above 1 GHz			RE<1G: Ra	adiated Emission below 1 GHz
PL	C: Power Line	Conducted Em	ission	APCM: Ant	enna Port Conducted Measurement

NOTE:

1. For Radiated emission test, pre-tested GFSK, π /4-DQPSK, 8DPSK modulation type and found GFSK was the worse, therefore chosen for the final test and presented in the test report.

2. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane**.

3. "-" means no effect.

Radiated Emission Test (Above 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
 Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5

Radiated Emission Test (Below 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
 Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	78	FHSS	GFSK	DH5

Power Line Conducted Emission Test:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
 Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	78	FHSS	GFSK	DH5



Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
 Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type	
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5	
-	0 to 78	0, 39, 78	FHSS	π /4-DQPSK	DH5	
-	0 to 78	0, 39, 78	FHSS	8DPSK	DH5	

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by		
RE≥1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee		
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Charles Hsiao		
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Toby Tian		
АРСМ	25 deg. C, 65 % RH	3.8 Vdc	Taylor Liu		



3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

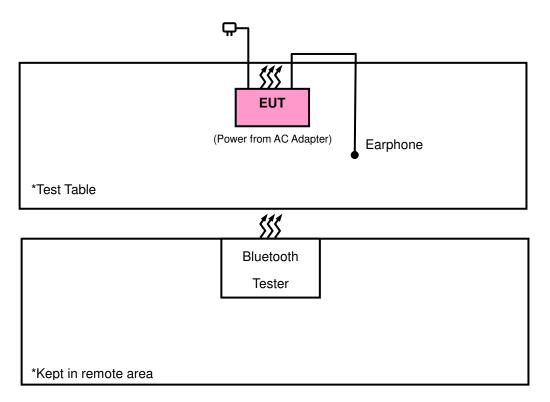
No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Bluetooth Tester	R&S	CBT	100980	N/A

No.	Signal Cable Description Of The Above Support Units
1.	N/A

Note:

1. All power cords of the above support units are non-shielded (1.8m).

3.3.1 Configuration of System under Test





3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247) FCC Public Notice DA 00-705 ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)		
0.009 ~ 0.490	2400/F (kHz)	300		
0.490 ~ 1.705	24000/F (kHz)	30		
1.705 ~ 30.0	30	30		
30 ~ 88	100	3		
88 ~ 216	150	3		
216 ~ 960	200	3		
Above 960	500	3		

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.



4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	May 19, 2015	May 18, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2015	Dec. 16, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 04, 2015	Feb. 04, 2016
HORN Antenna ETS-Lindgren	3117	00143293	Jan. 05, 2015	Jan. 04, 2016
Bluetooth Tester	CBT	100980	Apr. 27, 2015	Apr. 26, 2017
Loop Antenna	EM-6879	269	Jul. 31, 2015	Jul. 30, 2016
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Preamplifier Agilent	310N	187226	Jun. 29, 2015	Jun. 28, 2016
Preamplifier Agilent	83017A	MY39501357	Jun. 29, 2015	Jun. 28, 2016
Power Meter Anritsu	ML2495A	1232002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor Anritsu	MA2411B	1207325	Sep. 21, 2015	Sep. 20, 2016
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 27, 2015	Jun. 26, 2016
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 27, 2015	Jun. 26, 2016
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HsinTien Chamber 1.
- 3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.
- 4. The FCC Site Registration No. is 149147.
- 5. The IC Site Registration No. is IC7450I-1.



4.1.3 Test Procedures

- The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

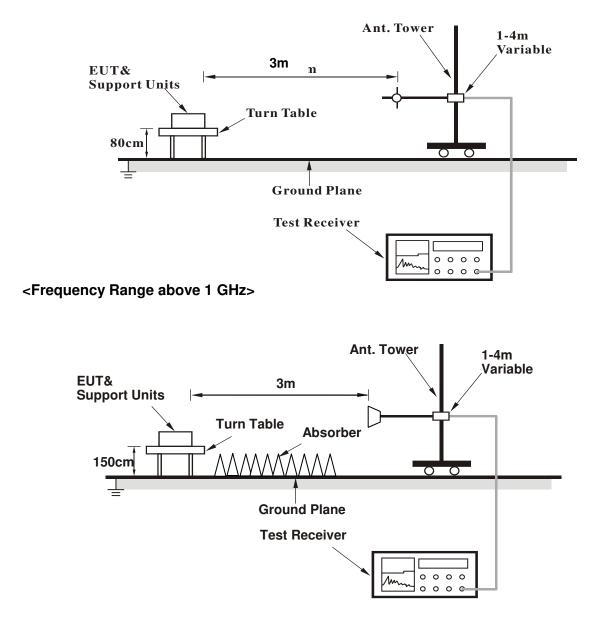
Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor (10 log(1/duty cycle)).
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
- 5. All modes of operation were investigated and the worst-case emissions are reported.
- 4.1.4 Deviation from Test Standard

No deviation.

4.1.5 Test Set Up

<Frequency Range below 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

Set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

ABOVE 1 GHz DATA :

GFSK

EUT Test Condition		Measurement Detail		
Channel	Channel 0	Frequency Range 1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)	
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee	

	Antenna Polarity & Test Distance: Horizontal at 3 m									
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2378	39.17	37.51	54	-14.83	31.78	5.37	35.49	160	230	Average
2378	56.01	54.35	74	-17.99	31.78	5.37	35.49	160	230	Peak
2402	90.81	89.08			31.8	5.4	35.47	160	230	Average
2402	95.49	93.76			31.8	5.4	35.47	160	230	Peak
2486	39.75	37.76	54	-14.25	31.88	5.53	35.42	160	230	Average
2486	55.8	53.81	74	-18.2	31.88	5.53	35.42	160	230	Peak
		A	Antenna P	olarity &	Test Dista	ance: Vert	tical at 3 r	n		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2324	39.08	37.57	54	-14.92	31.73	5.3	35.52	121	358	Average
2324	55.07	53.56	74	-18.93	31.73	5.3	35.52	121	358	Peak
2402	88.32	86.59			31.8	5.4	35.47	121	358	Average
2402	92.98	91.25			31.8	5.4	35.47	121	358	Peak
2484	39.69	37.73	54	-14.31	31.88	5.5	35.42	121	358	Average
2484	55.57	53.61	74	-18.43	31.88	5.5	35.42	121	358	Peak

Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor Margin value = Emission level – Limit value

2. 2402 MHz: Fundamental frequency.



EUT Test Condition		Measurement Detail			
Channel	Channel 39	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz		Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee		

	Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2374	39.17	37.51	54	-14.83	31.78	5.37	35.49	143	230	Average	
2374	55.46	53.8	74	-18.54	31.78	5.37	35.49	143	230	Peak	
2441	90.96	89.09			31.85	5.46	35.44	143	230	Average	
2441	95.61	93.74			31.85	5.46	35.44	143	230	Peak	
2496	39.74	37.72	54	-14.26	31.9	5.53	35.41	143	230	Average	
2496	55.57	53.55	74	-18.43	31.9	5.53	35.41	143	230	Peak	
		A	Antenna P	olarity &	Test Dista	ance: Vert	ical at 3 r	n			
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2384	39.21	37.52	54	-14.79	31.78	5.4	35.49	121	358	Average	
2384	55.11	53.42	74	-18.89	31.78	5.4	35.49	121	358	Peak	
2441	87.22	85.35			31.85	5.46	35.44	121	358	Average	
2441	92.85	90.98			31.85	5.46	35.44	121	358	Peak	
2498	39.72	37.7	54	-14.28	31.9	5.53	35.41	121	358	Average	
2498	55.38	53.36	74	-18.62	31.9	5.53	35.41	121	358	Peak	

Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor Margin value = Emission level – Limit value

2. 2441 MHz: Fundamental frequency.



EUT Test Condition		Measurement Detail			
Channel	Channel 78	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz	LIGIGCION FUNCTION	Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee		

	Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2346	39.12	37.55	54	-14.88	31.74	5.33	35.5	209	230	Average	
2346	55.72	54.15	74	-18.28	31.74	5.33	35.5	209	230	Peak	
2480	91.39	89.43			31.88	5.5	35.42	209	230	Average	
2480	96.13	94.17			31.88	5.5	35.42	209	230	Peak	
2488	39.81	37.8	54	-14.19	31.9	5.53	35.42	209	230	Average	
2488	56.43	54.42	74	-17.57	31.9	5.53	35.42	209	230	Peak	
		A	Antenna P	olarity &	Test Dista	ance: Vert	ical at 3 r	n			
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2380	39.18	37.52	54	-14.82	31.78	5.37	35.49	132	273	Average	
2380	56.29	54.63	74	-17.71	31.78	5.37	35.49	132	273	Peak	
2480	88.66	86.7			31.88	5.5	35.42	132	273	Average	
2480	93.29	91.33			31.88	5.5	35.42	132	273	Peak	
2498	39.73	37.71	54	-14.27	31.9	5.53	35.41	132	273	Average	
2498	55.57	53.55	74	-18.43	31.9	5.53	35.41	132	273	Peak	

Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor Margin value = Emission level – Limit value

2. 2480 MHz: Fundamental frequency.



9 kHz ~ 30 MHz DATA:

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1 GHz WORST-CASE DATA:

EUT Test Condition		Measurement Detail				
Channel	Channel 78	Frequency Range	30 MHz ~ 1 GHz			
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)			
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao			

		An	tenna Po	larity & T	est Distar	nce: Horiz	ontal at 3	m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
106.41	31.14	49.85	43.5	-12.36	12.26	1.28	32.25	140	277	Peak
117.75	30.26	50.39	43.5	-13.24	10.84	1.28	32.25	117	175	Peak
214.14	28.91	48.27	43.5	-14.59	11.23	1.65	32.24	190	170	Peak
302.1	24.35	41.33	46	-21.65	13.12	2.03	32.13	130	221	Peak
380.5	19.49	34.8	46	-26.51	14.59	2.26	32.16	180	105	Peak
832	22.73	30.45	46	-23.27	20.79	3.38	31.89	130	174	Peak
		A	ntenna P	olarity &	Test Dista	ance: Vert	tical at 3 r	n		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
47.55	34	50.81	40	-6	14.51	0.9	32.22	147	355	Peak
59.43	32.75	50.56	40	-7.25	13.52	0.9	32.23	120	150	Peak
119.1	24.13	44.71	43.5	-19.37	10.39	1.28	32.25	103	128	Peak
692	20.3	30.24	46	-25.7	19.11	3.05	32.1	120	312	Peak
846	22.36	29.83	46	-23.64	20.97	3.38	31.82	120	174	Peak
904.8	24.07	30.51	46	-21.93	21.48	3.53	31.45	190	48	Peak

Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor Margin value = Emission level – Limit value



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

	Conducted Limit (dBuV)					
Frequency (MHz)	Quasi-peak	Average				
0.15 - 0.5	66 - 56	56 - 46				
0.50 - 5.0	56	46				
5.0 - 30.0	60	50				

Note: 1. The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 16, 2015	Nov. 15, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 26, 2015	Dec. 25, 2016
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 26, 2015	Feb. 25, 2016
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 24, 2015	Jul. 23, 2016
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.



4.2.3 Test Procedures

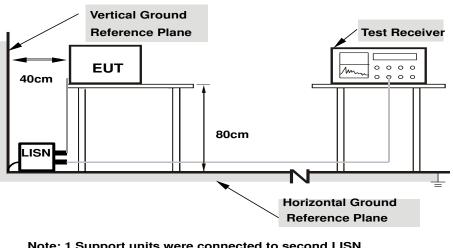
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20 dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Condition

Set the EUT under transmission condition continuously at specific channel frequency.



4.2.7 Test Results

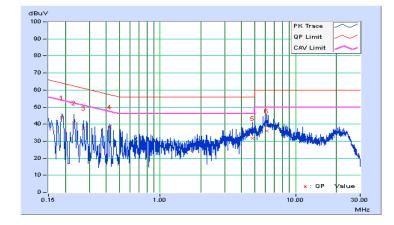
CONDUCTED WORST-CASE DATA : GFSK

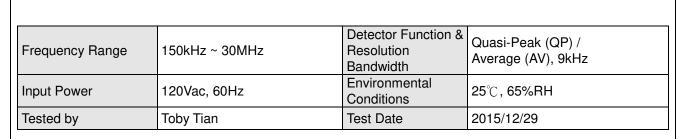
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25℃, 65%RH
Tested by	Toby Tian	Test Date	2015/12/29

	Phase Of Power : Line (L)										
	Frequency	Correction	Reading Value		Emissic	Emission Level		nit	Margin		
No		Factor	(dB	uV)	(dB	uV)	(dB	uV)	(d	B)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.18903	9.84	33.89	23.46	43.73	33.30	64.08	54.08	-20.35	-20.78	
2	0.23216	9.85	31.01	21.78	40.86	31.63	62.37	52.37	-21.52	-20.75	
3	0.27120	9.85	27.90	11.44	37.75	21.29	61.08	51.08	-23.33	-29.79	
4	0.42782	9.88	28.57	16.70	38.45	26.58	57.29	47.29	-18.84	-20.71	
5	4.83809	10.18	21.46	13.57	31.64	23.75	56.00	46.00	-24.36	-22.25	
6	6.11666	10.26	25.70	19.02	35.96	29.28	60.00	50.00	-24.04	-20.72	

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

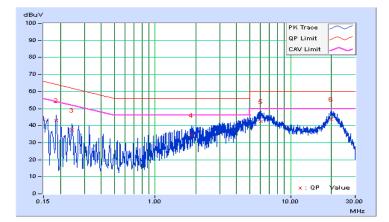




	Phase Of Power : Neutral (N)										
	Frequency	Correction	Reading Value		Emission Level		Limit		Margin		
No		Factor	(dB	uV)	(dB	uV)	(dB	uV)	(d	B)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15000	9.82	33.73	25.80	43.55	35.62	66.00	56.00	-22.45	-20.38	
2	0.18519	9.83	33.39	23.45	43.22	33.28	64.25	54.25	-21.03	-20.97	
3	0.24407	9.84	27.56	13.07	37.40	22.91	61.96	51.96	-24.56	-29.05	
4	1.85476	9.98	24.36	12.02	34.34	22.00	56.00	46.00	-21.66	-24.00	
5	6.05410	10.25	32.10	23.66	42.35	33.91	60.00	50.00	-17.65	-16.09	
6	19.95024	10.92	32.69	20.90	43.61	31.82	60.00	50.00	-16.39	-18.18	

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

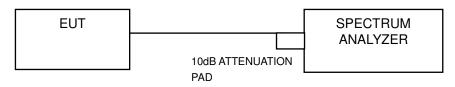


4.3 Number of Hopping Frequency Used

4.3.1 Limits of Hopping Frequency Used Measurement

At least 15 channels frequencies, and should be equally spaced.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.

4.3.5 Deviation fromTest Standard

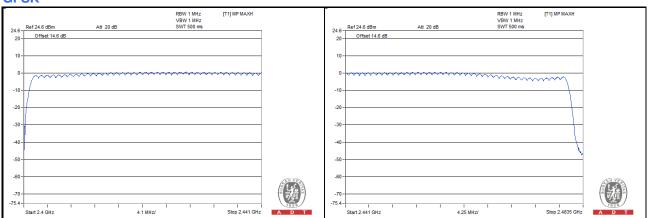
No deviation.

4.3.6 Test Results

There are 79 hopping frequencies in the hopping mode. Please refer to next page for the test result. On the plots, it shows that the hopping frequencies are equally spaced.



GFSK



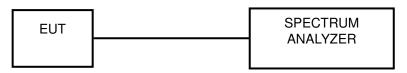


4.4 Dwell Time on Each Channel

4.4.1 Limits of Dwell Time on Each Channel Measurement

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.
- 4.4.5 Deviation from Test Standard

No deviation.



4.4.6 Test Results

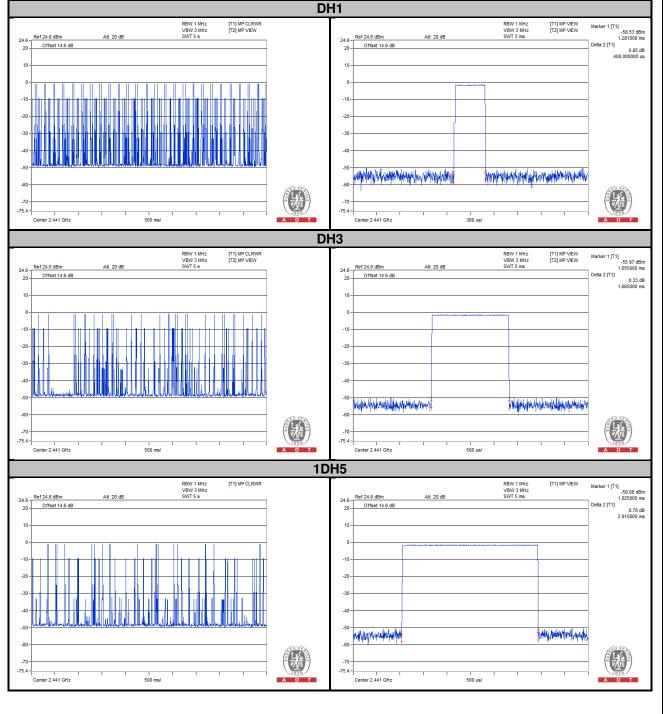
GFSK

Mode	Average Hopping Channel	Package Transfer Time (usec)	Result (sec)	Limit (sec)
DH1	10.20	408.00	0.13	0.4
DH3	5.40	1665.00	0.28	0.4
DH5	3.20	2915.00	0.29	0.4

NOTE:

- 1. Dwell Time=79(channels) x 0.4(s) x average hopping channel x package transfer time
- 2. 79 channels come from the Hopping Channel number
- 3. Average Hopping Channel = hops/sweep time
- 4. t: Package Transfer Time(us)

5. Test plots of the transmitting time slot are shown as below.



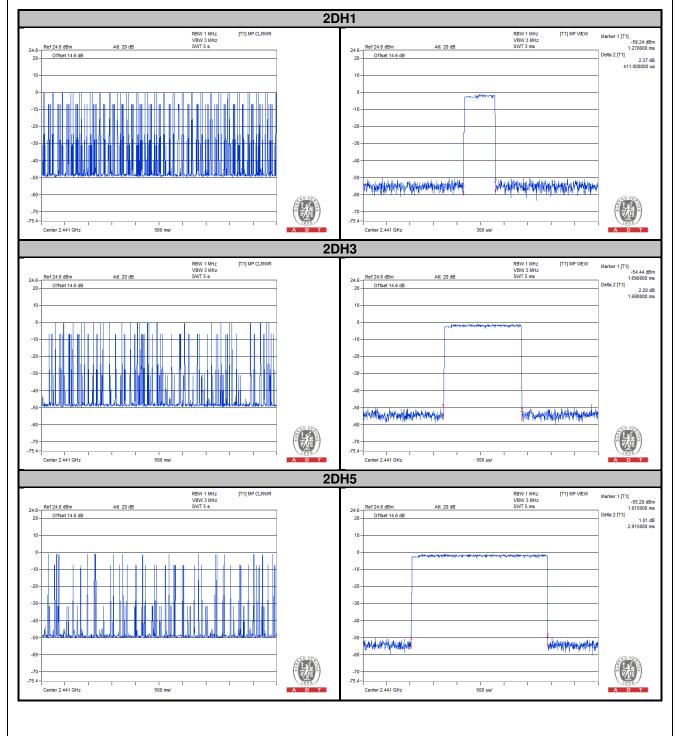


Π/4-DQPSK

Mode	Average Hopping Channel	Package Transfer Time (usec)	Result (sec)	Limit (sec)
2DH1	10.00	411.00	0.13	0.4
2DH3	5.20	1690.00	0.28	0.4
2DH5	3.40	2915.00	0.31	0.4

NOTE:

- 1. Dwell Time=79(channels) x 0.4(s) x average hopping channel x package transfer time
- 2. 79 channels come from the Hopping Channel number
- 3. Average Hopping Channel = hops/sweep time
- 4. t: Package Transfer Time(us)
- 5. Test plots of the transmitting time slot are shown as below.



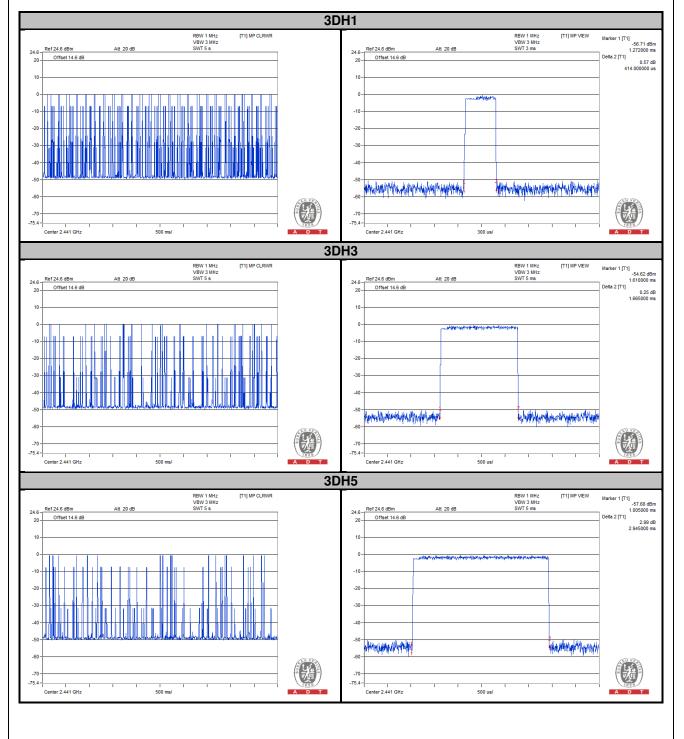


8DPSK

Mode	Average Hopping Channel	Package Transfer Time (usec)	Result (sec)	Limit (sec)
3DH1	10.00	414.00	0.13	0.4
3DH3	5.00	1665.00	0.26	0.4
3DH5	3.60	2945.00	0.34	0.4

NOTE:

- 1. Dwell Time=79(channels) x 0.4(s) x average hopping channel x package transfer time
- 2. 79 channels come from the Hopping Channel number
- 3. Average Hopping Channel = hops/sweep time
- 4. t: Package Transfer Time(us)
- 5. Test plots of the transmitting time slot are shown as below.



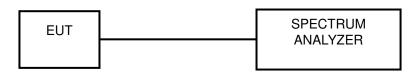


4.5 Channel Bandwidth

4.5.1 Limits of Channel Bandwidth Measurement

For frequency hopping system operating in the 2400-2483.5 MHz, if the 20 dB bandwidth of hopping channel is greater than 25 kHz, two-thirds 20 dB bandwidth of hopping channel shell be a minimum limit for the hopping channel separation.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

4.5.5 Deviation from Test Standard

No deviation.

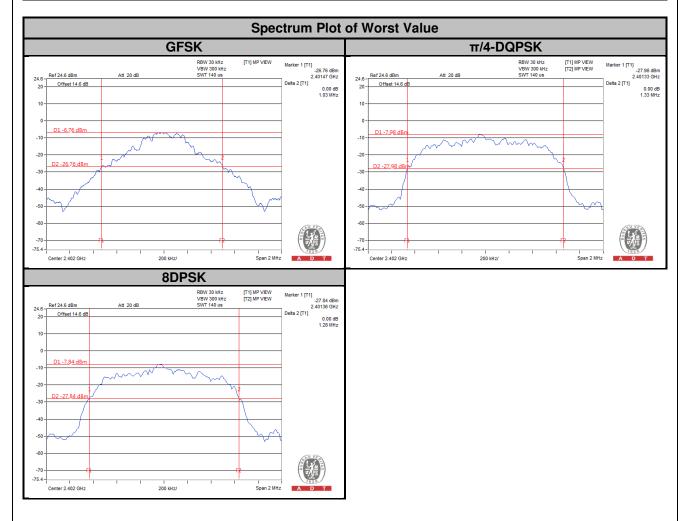
4.5.6 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.



4.5.7 Test Results

Channel	Frequency	20 dB Bandwidth (MHz)					
Channer	(MHz)	GFSK	π/4-DQPSK	8DPSK			
0	2402	1.03	1.33	1.28			
39	2441	0.97	1.33	1.28			
78	2480	0.98	1.33	1.27			



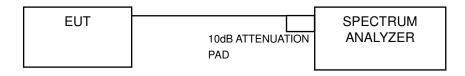


4.6 Hopping Channel Separation

4.6.1 Limits of Hopping Channel Separation Measurement

At least 25 kHz or two-third of 20 dB hopping channel bandwidth (whichever is greater).

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

Measurement Procedure REF

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- c. By using the MaxHold function record the separation of two adjacent channels.
- d. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.

4.6.5 Deviation from Test Standard

No deviation.

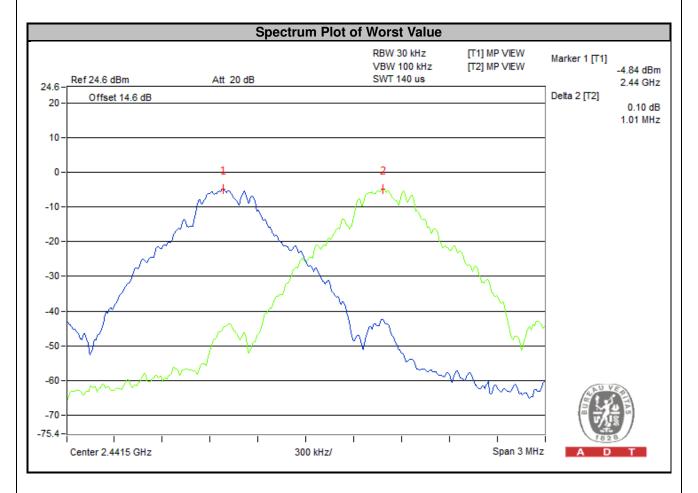


4.6.6 Test Results

Channel	Freq. (MHz)	(8411-)			Bar	20 dB Bandwidth (MHz)		Minimum Limit (MHz)			Pass / Fail
		GFSK	π/4-DQPSK	8DPSK	GFSK	π/4-DQPSK	8DPSK	GFSK	π/4-DQPSK	8DPSK	
0	2402	1.00	1.00	1.00	1.03	1.33	1.28	0.687	0.887	0.853	Pass
39	2441	1.01	1.00	1.01	0.97	1.33	1.28	0.648	0.887	0.853	Pass
78	2480	1.00	1.01	1.01	0.98	1.33	1.27	0.653	0.887	0.847	Pass

NOTE:

1. The minimum limit is two-third 20 dB bandwidth.

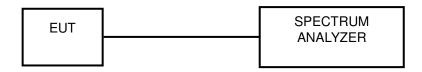


4.7 Maximum Output Power

4.7.1 Limits of Maximum Output Power Measurement

The Maximum Output Power Measurement is 125 mW.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 3 MHz RBW and 10 MHz VBW.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

4.7.5 Deviation fromTest Standard

No deviation.

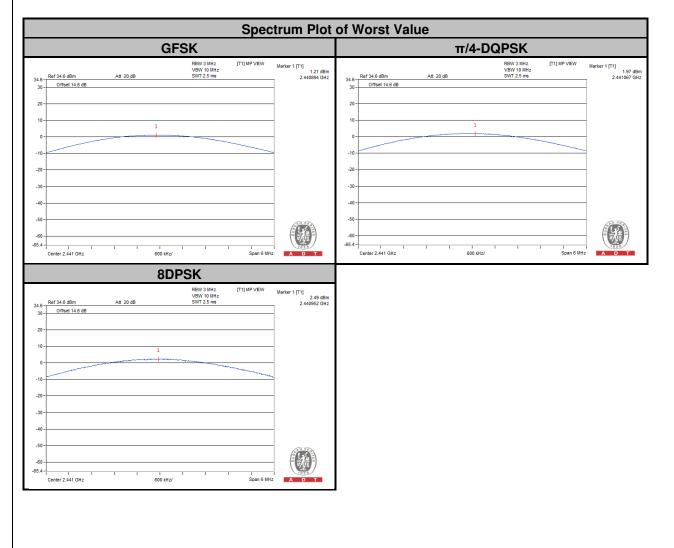
4.7.6 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.



4.7.7 Test Results

Channel	Frequency (MHz)	Output Power (mW)			Output Power (dBm)			Power Limit	Pass / Fail
		GFSK	π/4-DQPSK	8DPSK	GFSK	π/4-DQPSK	8DPSK	(mW)	
0	2402	0.933	1.112	1.230	-0.30	0.46	0.90	125	PASS
39	2441	1.321	1.574	1.774	1.21	1.97	2.49	125	PASS
78	2480	0.780	0.927	1.038	-1.08	-0.33	0.16	125	PASS





4.8 Conducted Out of Band Emission Measurement

4.8.1 Limits Of Conducted Out Of Band Emission Measurement

Below –20 dB of the highest emission level of operating band (in 100 kHz RBW).

4.8.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.8.3 Test Procedure

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

4.8.4 Deviation from Test Standard

No deviation.

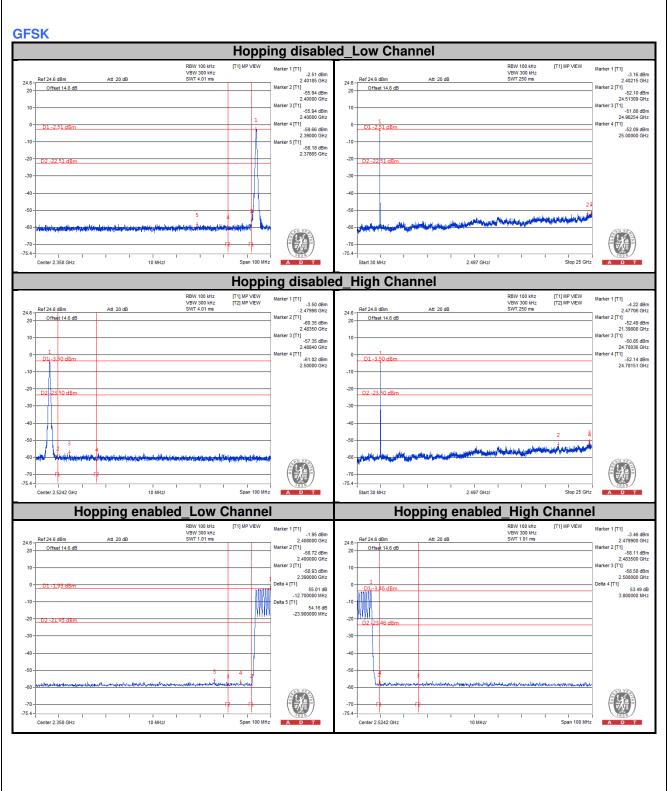
4.8.5 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

4.8.6 Test Results

The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20 dB offset below D1. It shows compliance with the requirement.







π/4-DQPSK

Hopping disabled_Low Channel									
BBW 100 Hit: VBW 300 Hit: 24.6 TT II IF v EW (TZ IF V EW SWT 4.01 ma 24.6 Ref 24.6 dBm II 0 D1-3.64 dBm I -10 II II -20 D2-22.64 dBm III -30 III IIII	Marker 1 [[1]] 2.40196 GHz 2.40196 GHz 2.40006 GHz 4.600.4 dBm 2.40000 GHz Marker 3 [[1]] 4.57.70 dBm 2.39867 GHz Marker 4 [[1]] 2.328 dBm 2.33967 GHz Marker 5 [[1]] -57.70 dBm 2.34890 GHz	RBW 100 Htz [T1] MP VEW Marker 1 [T1] VBW 300 Htz [T2] MP VEW -3.86 dBm							
-50 - 5 - 3 -00		-50 -50 -50 -50 -70 -754 -510 MHz 2.497 GHz/ Stop 25 GHz -70 -76 -754 - 2.497 GHz/ Stop 25 GHz -70 -76 -754 - 2.497 GHz/ Stop 25 GHz							
BBW Hoo Hiz 24.6 CT11 MP VEW WW 300 kHz 200 CT11 MP VEW DV 300 kHz 201 24.6 Ref 24.6 dBm F12 MP VEW 20 Offset 14.6 dB SWT 4.01 ms 10	Marker 1 [T1] 2.4013 GHz Marker 2 [T1] Marker 3 [T1] Marker 3 [T1] Marker 3 [T1] Marker 4 [T1] 6.136 dBm 2.50000 GHz	Ref 24.6 dbm Art 20 db SWT 100 kiz (TT1 WP VEW Art 10 ft 24.6 Ref 24.6 dbm Att 20 db SWT 250 ma 2.4706 dbm 2.4375 dbm 2.530000 dbm 2.50000 dbm							
-70		-70							
Center 2.5242 GHz 10 MHz/ Span 100 M	Hz A D T	Start 30 MHz 2.497 GHz/ Stop 25 GHz A D T							
Hopping enabled Low Channe	Hopping enabled_Low Channel Hopping enabled_High Channel								
Image: Control of the second	Marker 1 [71] -3.09 dBm 2.407100 GHz Marker 2 [71] -58.89 dBm 2.400000 GHz Marker 3 [71] -57.34 dBm 2.390000 GHz Deta 4 [71]	RBW 100 kHz (T1) MP VEW VBW 300 Mtz Marker 1 [T1] 24.6 Ref 24.6 dBm Att 20 dB SWT 1.01 ms 2.47000 GHz 20 Offset 14.6 dB							
-7075.4		-70 -75.4 Center 2.5242 GHz 10 MHz/ Span 100 MHz							



8DPSK Hopping disabled_Low Channel RBW 100 kHz VBW 300 kHz SWT 250 ms RBW 100 kHz VBW 300 kHz SWT 4.01 ms (T1) MP VIEW (T2) MP VIEW Marker 1 [T1] -3.54 dBm 2.40215 GHz Marker 2 [T1] -59.91 dBm 2.40000 GHz Marker 3 [T1] (T1) MP VIEW (T2) MP VIEW Marker 1 [T1] -3.68 dBm 2.40215 GHz Varker 2 [T1] 24.6 - Ref 24.6 dBm 24.6 - Ref 24.6 dBm 20 - Offset 14.6 dB Att 20 dB Att 20 dB Offset 14.6 dB Marker 2 [T1] -52.79 dBm 15.06818 GHz Marker 3 [T1] -52.39 dBm 24.60672 GHz Marker 4 [T1] -52.46 dBm 24.78151 GHz 20-2.40000 GHz Marker 3 [T1] -57.87 dBm 2.39250 GHz Marker 4 [T1] -60.84 dBm 2.39000 GHz 2.39000 GHz 10-10 0-D1 -3.5 -10 -10 Marker 5 [T1] -57.59 dBm 2.38068 GHz -20 -20 D2 -23.54 -30 -30 4 40 -50 -50 -60 -60 -Ŵ -70 -70 -75.4 --75.4 -I Stop 25 GHz 10 MHz/ 2.497 GHz/ Center 2.358 GHz Span 100 MHz Start 30 MHz Hopping disabled_High Channel RBW 100 kHz VBW 300 kHz SWT 4.01 ms [T1] MP VIEW [T2] MP VIEW RBW 100 kHz VBW 300 kHz SWT 250 ms [T1] MP VIEW [T2] MP VIEW Marker 1 [T1] -4.49 dBm 2.47962 GHz Marker 2 [T1] -40.90 dBm 2.48350 GHz 2.48550 GHz 2.49673 GHz Marker 4 [T1] -61.31 dBm 2.50000 GHz Marker 1 [T1] Marker 1 [T1] -4.55 dBm 2.47706 GHz Warker 2 [T1] -52.62 dBm 24.48812 GHz Marker 3 [T1] -52.06 dBm 24.55678 GHz Marker 4 [T1] -52.20 dBm 24.80648 GHz Marker 1 [T1] Ref 24.6 dBm Att 20 dB Ref 24.6 dBm Att 20 dB 24.6 Offset 14.6 dB Offset 14.6 dB 20 20 10-10 0 ______ 4.49 dB D1 -4.49 dBr -10 -10--20 -20 D2 -24 49 dBn D2 -24,49 dl -30 -30 -40 -40 --50 -50 T_{1} -60 -60 -70 -70 N. -75.4 --75.4 -Span 100 MHz I Stop 25 GHz Center 2.5242 GHz 10 MHz/ Start 30 MHz 1 2.497 GHz/ т Hopping enabled_High Channel Hopping enabled_Low Channel Marker 1 [T1] -4.43 dBm 2.479700 GHz Marker 2 [T1] -58.43 dBm 2.483500 GHz Marker 3 [T1] -59.23 dBm 2.50000 GHz Deta 4 [T1] 52.46 dB RBW 100 kHz VBW 300 kHz SWT 1.01 ms RBW 100 kHz VBW 300 kHz SWT 1.01 ms [T1] MP VIEW Marker 1 [T1] -3.10 dBm 2.408000 GHz Marker 2 [T1] -56.99 dBm 2.400000 GHz Marker 3 [T1] -58.86 dBm 2.300000 GHz Deth 4 [T1] [T1] MP VIEW Ref 24.6 dBm Att 20 di Ref 24.6 dBm Att 20 dE 24.6 24.6-Offset 14.6 dB Offset 14.6 dB 20 20-10 -10-D1 -3.10 dBn 52.46 dB 14.500000 MHz NNN -10 53.56 dB -22.900000 MHz -20 -20 D2 -23.10 dB D2 - 24 43 dBr -30 -30 -40 -40 -50 -50 -60 -60 No. -70 -70 -75.4 --75.4 -Center 2.358 GHz Span 100 MHz Span 100 MHz 10 MHz/ 10 MHz/ Center 2.5242 GHz A A



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).



Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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