

FCC TEST REPORT (BLUETOOTH)

REPORT NO.: RF130610D25-1

MODEL NO.: TM75A, TM75wxyz

FCC ID: WL6-TMBC0002

RECEIVED: Jun. 10, 2013

TESTED: Jun. 17 ~ 19, 2013

ISSUED: Jun. 27, 2013

APPLICANT: Elitegroup Computer Systems Co., Ltd

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11493

ISSUED BY: Bureau Veritas Consumer Products Services

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130610D25-1	Original release	Jun. 27, 2013

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1. CERTIFICATION

PRODUCT: 7" table PC

BRAND NAME: ECS

MODEL NO.: TM75A, TM75wxyz

(w=0-9,a-z or blank, "-"; x=0-9,a-z or blank, "-"; y=0-9,a-z or blank, "-"; z=0-9,a-z or blank, "-")

APPLICANT: Elitegroup Computer Systems Co., Ltd

TESTED: Jun. 17 ~ 19, 2013

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10-2009

The above equipment (model no.: TM75A) 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.

PREPARED BY: _____, DATE: Jun. 27, 2013

(Celia Chen / Senior Specialist)

APPROVED BY: , **DATE**: Jun. 27, 2013

(Ken Liu / Senior Manager)



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	APPLIED STANDARD: FCC Part 15, Subpart C							
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK					
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -10.22dB at 2.38672MHz.					
15.247(a)(1) (iii)	Number of Hopping Frequency Used	PASS	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.					
15.247(d)	Transmitter Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -1.1dB at 248.56MHz					
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.					
15.203	Antenna Requirement	PASS	Antenna connector is IPEX not a standard connector.					

NOTE: If The Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB 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 as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	MEASUREMENT FREQUENCY	
Conducted emissions	150kHz~30MHz	2.41 dB
Dadiated emissions	30MHz ~ 1GHz	4.30 dB
Radiated emissions	Above 1GHz	3.36 dB



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	7" table PC
MODEL NO.	TM75A, TM75wxyz
POWER SUPPLY	5Vdc from power adapter
TOWER SOLTE	3.7Vdc from battery
MODULATION TYPE	GFSK, π /4-DQPSK, 8DPSK
MODULATION	FHSS
TECHNOLOGY	11100
TRANSFER RATE	1/2/3Mbps
OPERATING FREQUENCY	2402 ~ 2480MHz
NUMBER OF CHANNEL	79
MAX. OUTPUT POWER	1.9mW
ANTENNA TYPE	PIFA antenna with 1.67dBi gain
ANTENNA CONNECTOR	IPEX connector
DATA CABLE	Non-shielded USB cable (1m)
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Refer to note below

NOTE:

1. The EUT is a 7" table PC.

2. The following models are provided to this EUT.

Model No.	Description				
TM75A	All models are electrically identical, different model names are for				
TM75wxyz	marketing purpose.				
(w=0-9,a-z or blank	(w=0-9,a-z or blank, "-"; x=0-9,a-z or blank, "-"; y=0-9,a-z or blank, "-"; z=0-9,a-z or blank, "-")				

From the above models, **model: TM75A** was selected as representative model for the test and its test data was recorded in this report.

3. The EUT equipped the following accessory:

Item	Brand	Model	Spec.
Power Adapter	SHENZHEN FRECOME ELECTRONICS CO., LTD.	F12W-050200SPAU	AC I/P: 100-240V, 50/60Hz, 0.3A DC O/P: 5V, 2A AC 2-Pin Non-shielded DC cable (1.5m)



- 4. The EUT was pre-tested with the following modes:
 - 2 EUT + Adapter
 - ² EUT + Battery
 - EUT link to PC via USB cable

The worst emission level was found when the EUT tested under **EUT + Adapter**, therefore, only its test data was recorded in this report.

5. 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)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	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		А	PPLICABLE	DECORPTION				
MODE MODE	RE ³ 1G	RE<1G	PLC	APCM	ОВ	DESCRIPTION		
-	V	√	V	√	\checkmark	EUT + Adapter		

Where **RE**³**1G:** Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

OB: Conducted Out-Band Emission Measurement

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

RADIATED EMISSION TEST (ABOVE 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture) and packet type.

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	8DPSK	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, antenna ports (if EUT with antenna diversity architecture) and packet type.

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	8DPSK	DH5

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POWER LINE CONDUCTED EMISSION TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	RE AVAILABLE TESTED CHANNEL CHANNEL		MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	78	FHSS	8DPSK	DH5

CONDUCTED OUT-BAND EMISSION MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.

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, 78	FHSS	GFSK	DH5	
-	0 to 78	0, 78	FHSS	8DPSK	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, antenna ports (if EUT with antenna diversity architecture), and packet types.

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	8DPSK	DH5	



TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE ³ 1G	24deg. C, 74%RH	120Vac, 60Hz	Saxon Lee
RE<1G	24deg. C, 74%RH	120Vac, 60Hz	Saxon Lee
PLC	25deg. C, 75%RH	120Vac, 60Hz	Joey Liu
ОВ	20deg. C, 70%RH	120Vac, 60Hz	Dalen Dai
APCM	20deg. C, 70%RH	120Vac, 60Hz	Dalen Dai

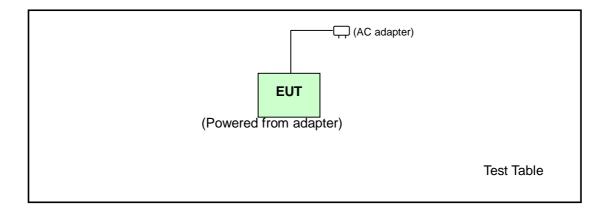
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3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without any necessary accessory or support unit.

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)

ANSI C63.10-2009

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

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

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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 20dB 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 1000MHz, 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 20dB under any condition of modulation.



4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 26, 2013	Feb. 25, 2014
HP Preamplifier	8449B	3008A01201	Feb. 26, 2013	Feb. 25, 2014
Agilent TEST RECEIVER	N9038A	MY51210129	Jan. 03, 2013	Jan. 02, 2014
Schwarzbeck Antenna	VULB 9168	137	Mar. 20, 2013	Mar. 19, 2014
Schwarzbeck Antenna	VHBA 9123	480	May 29, 2013	May 28, 2014
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	ADT_Radiated_V 7.6.15.9.2	NA	NA	NA
SUHNER RF cable	SF102	CABLE-CH6	Aug. 19, 2012	Aug. 18, 2013
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	May 13, 2013	May 12, 2014
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
ROHDE & SCHWARZ Spectrum Analyzer	FSP 40	100036	May 17, 2013	May 16, 2014
Anritsu Power Sensor	MA2411B	0738404	Apr. 24, 2013	Apr. 23, 2014
Anritsu Power Meter	ML2495A	0842014	Apr. 25, 2013	Apr. 24, 2014

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 horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3. The test was performed in Chamber No. 6.
- 4. The Industry Canada Reference No. IC 7450E-6.
- 5. The FCC Site Registration No. is 447212.



4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

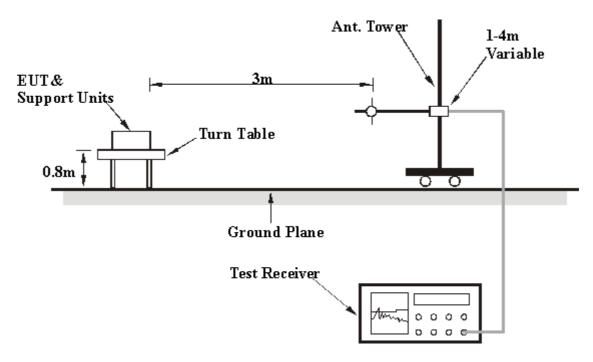
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 4. 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 SETUP



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/receiving condition continuously at specific channel frequency.



4.1.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

BT_8DPSK

CHANNEL	TX Channel 78	DETECTOR	Ougai Baak (OD)
FREQUENCY RANGE	30MHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	137.00	41.5 QP	43.5	-2.0	1.47 H	276	55.45	-13.97		
2	191.02	41.3 QP	43.5	-2.2	1.00 H	62	57.07	-15.77		
3	248.56	45.0 QP	46.0	-1.1	1.00 H	199	58.56	-13.61		
4	465.53	38.2 QP	46.0	-7.8	2.00 H	58	46.23	-8.03		
5	545.07	36.3 QP	46.0	-9.7	2.00 H	258	43.12	-6.78		
6	719.67	35.9 QP	46.0	-10.1	1.00 H	218	39.36	-3.47		
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	54.25	37.5 QP	40.0	-2.6	1.03 V	123	50.64	-13.19		
2	72.68	38.0 QP	40.0	-2.0	1.04 V	66	53.94	-15.96		
3	133.79	39.8 QP	43.5	-3.7	1.08 V	160	53.92	-14.15		
4	165.80	38.2 QP	43.5	-5.3	1.06 V	219	51.73	-13.57		
5	210.42	37.8 QP	43.5	-5.7	1.51 V	176	53.43	-15.65		
6	248.25	41.9 QP	46.0	-4.1	1.00 V	48	55.53	-13.64		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



ABOVE 1GHz DATA

BT_GFSK

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	2390.00	58.5 PK	74.0	-15.5	1.00 H	25	62.21	-3.75		
2	2390.00	44.5 AV	54.0	-9.5	1.00 H	25	48.27	-3.75		
3	#2400.00	65.2 PK	74.0	-8.8	1.00 H	25	68.85	-3.70		
4	#2400.00	46.1 AV	54.0	-7.9	1.00 H	25	49.80	-3.70		
5	*2402.00	97.9 PK			1.00 H	25	101.61	-3.69		
6	*2402.00	61.3 AV			1.00 H	25	64.96	-3.69		
7	4804.00	47.7 PK	74.0	-26.4	1.00 H	107	43.95	3.70		
8	4804.00	32.3 AV	54.0	-21.7	1.00 H	107	28.56	3.70		
		ANTENNA	A POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	2390.00	59.1 PK	74.0	-14.9	1.03 V	330	62.83	-3.75		
2	2390.00	44.6 AV	54.0	-9.5	1.03 V	330	48.30	-3.75		
3	#2400.00	61.5 PK	74.0	-12.5	1.03 V	330	65.21	-3.70		
4	#2400.00	45.4 AV	54.0	-8.6	1.03 V	330	49.08	-3.70		
5	*2402.00	93.7 PK			1.03 V	330	97.36	-3.69		
6	*2402.00	59.8 AV			1.03 V	330	63.52	-3.69		
7	4804.00	47.3 PK	74.0	-26.8	1.05 V	92	43.55	3.70		
8	4804.00	32.1 AV	54.0	-21.9	1.05 V	92	28.42	3.70		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2441.00	98.5 PK			1.09 H	28	101.96	-3.51		
2	*2441.00	61.5 AV			1.09 H	28	64.99	-3.51		
3	4882.00	47.8 PK	74.0	-26.2	1.01 H	110	44.03	3.76		
4	4882.00	32.6 AV	54.0	-21.5	1.01 H	110	28.79	3.76		
		ANTENNA	POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 3 M			
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	*2441.00	95.1 PK			1.00 V	327	98.60	-3.51		
2	*2441.00	60.9 AV			1.00 V	327	64.42	-3.51		
3	4882.00	47.4 PK	74.0	-26.6	1.04 V	89	43.64	3.76		
4	4882.00	32.3 AV	54.0	-21.7	1.04 V	89	28.58	3.76		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 78	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2480.00	97.4 PK			1.00 H	152	100.76	-3.33			
2	*2480.00	61.2 AV			1.00 H	152	64.50	-3.33			
3	2483.50	58.1 PK	74.0	-15.9	1.00 H	152	61.41	-3.32			
4	2483.50	44.8 AV	54.0	-9.2	1.00 H	152	48.12	-3.32			
5	4960.00	47.7 PK	74.0	-26.3	1.02 H	109	43.99	3.70			
6	4960.00	32.3 AV	54.0	-21.7	1.02 H	109	28.62	3.70			
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 3 M				
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2480.00	95.5 PK			1.00 V	325	98.80	-3.33			
2	*2480.00	60.4 AV			1.00 V	325	63.76	-3.33			
3	2483.50	57.8 PK	74.0	-16.2	1.00 V	325	61.16	-3.32			
4	2483.50	44.7 AV	54.0	-9.3	1.00 V	325	47.98	-3.32			
5	4960.00	47.3 PK	74.0	-26.7	1.04 V	96	43.59	3.70			
6	4960.00	32.2 AV	54.0	-21.8	1.04 V	96	28.47	3.70			

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.



BT_8DPSK

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.8 PK	74.0	-16.2	1.00 H	24	61.57	-3.75
2	2390.00	44.6 AV	54.0	-9.4	1.00 H	24	48.32	-3.75
3	#2400.00	66.7 PK	74.0	-7.3	1.00 H	24	70.44	-3.70
4	#2400.00	47.1 AV	54.0	-6.9	1.00 H	24	50.84	-3.70
5	*2402.00	98.0 PK			1.00 H	24	101.71	-3.69
6	*2402.00	60.7 AV			1.00 H	24	64.34	-3.69
7	4804.00	47.2 PK	74.0	-26.8	1.00 H	108	43.48	3.70
8	4804.00	31.5 AV	54.0	-22.5	1.00 H	108	27.79	3.70
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.5 PK	74.0	-15.6	1.05 V	332	62.20	-3.75
2	2390.00	44.6 AV	54.0	-9.4	1.05 V	332	48.36	-3.75
3	#2400.00	63.2 PK	74.0	-10.8	1.05 V	332	66.89	-3.70
4	#2400.00	46.3 AV	54.0	-7.7	1.05 V	332	50.02	-3.70
5	*2402.00	93.8 PK			1.05 V	332	97.53	-3.69
6	*2402.00	59.2 AV			1.05 V	332	62.86	-3.69
7	4804.00	46.3 PK	74.0	-27.7	1.11 V	105	42.64	3.70
8	4804.00	31.2 AV	54.0	-22.8	1.11 V	105	27.52	3.70

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2441.00	98.9 PK			1.05 H	27	102.45	-3.51			
2	*2441.00	61.0 AV			1.05 H	27	64.47	-3.51			
3	4882.00	47.3 PK	74.0	-26.7	1.01 H	110	43.52	3.76			
4	4882.00	31.6 AV	54.0	-22.4	1.01 H	110	27.83	3.76			
		ANTENNA	POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 3 M				
NO.	EMISSION LIMIT ANTENNA TABLE RAW VALUE CORRECT							CORRECTION FACTOR			
		(ubuv/III)			` ,	(Degree)	` ,	(aB/m)			
1	*2441.00	95.2 PK			1.02 V	(Degree) 327	98.71	-3.51			
1 2	*2441.00 *2441.00	, ,			1.02 V 1.02 V	, , ,	98.71 63.50	` ,			
		95.2 PK	74.0	-27.5	-	327		-3.51			

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 78	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2480.00	98.4 PK			1.16 H	30	101.71	-3.33			
2	*2480.00	60.6 AV			1.16 H	30	63.93	-3.33			
3	2483.50	59.0 PK	74.0	-15.0	1.16 H	30	62.28	-3.32			
4	2483.50	44.8 AV	54.0	-9.2	1.16 H	30	48.11	-3.32			
5	4960.00	47.1 PK	74.0	-26.9	1.02 H	105	43.44	3.70			
6	4960.00	31.3 AV	54.0	-22.7	1.02 H	105	27.62	3.70			
		ANTENNA	A POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M				
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2480.00	95.1 PK			1.00 V	328	98.45	-3.33			
2	*2480.00	59.7 AV			1.00 V	328	63.00	-3.33			
3	2483.50	58.7 PK	74.0	-15.3	1.00 V	328	61.98	-3.32			
4	2483.50	44.7 AV	54.0	-9.3	1.00 V	328	48.05	-3.32			
5	4960.00	46.2 PK	74.0	-27.8	1.07 V	106	42.51	3.70			
6	4960.00	31.2 AV	54.0	-22.8	1.07 V	106	27.48	3.70			

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.



4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED	LIMIT (dBµV)
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	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 0.50MHz.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE &				
SCHWARZ	ESCS 30	100276	Jan. 07, 2013	Jan. 06, 2014
TEST RECEIVER				
ROHDE & SCHWARZ				
Artificial Mains Network	ESH3-Z5	100219	Nov. 28, 2012	Nov. 27, 2013
(for EUT)				
LISN With Adapter	AD10	C10Ada-001	Nov. 28, 2012	Nov. 27, 2013
(for EUT)	ADTO	CTOAda-001	1404. 20, 2012	1404. 27, 2013
ROHDE & SCHWARZ				
Artificial Mains Network	ESH3-Z5	100218	Dec. 05, 2012	Dec. 04, 2013
(for peripherals)				
Software	ADT_Cond_V7.3.7	NA	NA	NA
Software	ADT_ISN_V7.3.7	NA	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	Feb. 19, 2013	Feb. 18, 2014
SUHNER Terminator				
(For ROHDE &	65BNC-5001	E1-010773	Feb. 06, 2013	Feb. 05, 2014
SCHWARZ LISN)				

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 Shielded Room No. 10.
- 3. The VCCI Site Registration No. C-1852.



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/ 50uH 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 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

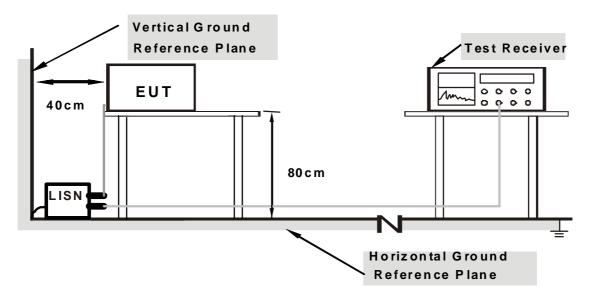
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.



4.2.5 TEST SETUP



Note: Support units were connected to second LISN.

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

4.2.6 EUT OPERATING CONDITIONS

Same as item 4.1.6.



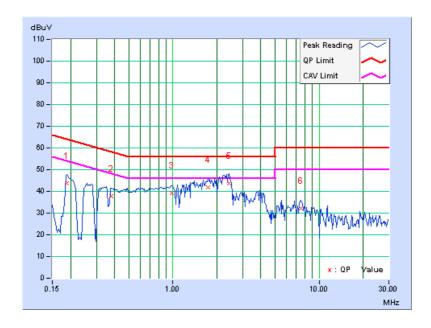
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 8DPSK

PHASE	Line 1	6dB BANDWIDTH	9kHz
-------	--------	---------------	------

	Freq.	Corr.	Reading Value		Emissic	n Level	Limit		Margin	
No		Factor	[dB	(uV)]	[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18906	0.14	43.44	30.50	43.58	30.64	64.08	54.08	-20.50	-23.44
2	0.38047	0.17	37.62	18.82	37.79	18.99	58.27	48.27	-20.48	-29.28
3	0.97813	0.19	39.06	20.91	39.25	21.10	56.00	46.00	-16.75	-24.90
4	1.75000	0.22	41.51	24.72	41.73	24.94	56.00	46.00	-14.27	-21.06
5	2.43359	0.25	43.51	27.99	43.76	28.24	56.00	46.00	-12.24	-17.76
6	7.49219	0.51	31.78	17.33	32.29	17.84	60.00	50.00	-27.71	-32.16

- 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

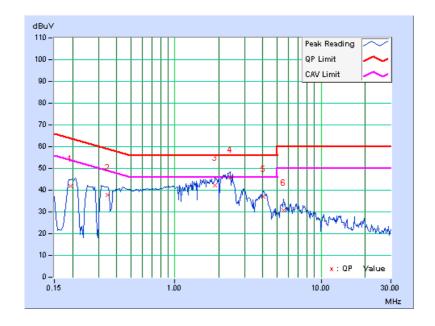




PHASE	Line 2	6dB BANDWIDTH	9kHz
-------	--------	---------------	------

	Freq.	Corr.	Readin	ding Value Emission Level Limit		mit	Margin			
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19450	0.11	41.56	27.72	41.67	27.83	63.84	53.84	-22.17	-26.01
2	0.34531	0.13	37.73	17.94	37.86	18.07	59.07	49.07	-21.21	-31.00
3	1.88672	0.19	42.06	24.86	42.25	25.05	56.00	46.00	-13.75	-20.95
4	2.38672	0.20	45.58	31.56	45.78	31.76	56.00	46.00	-10.22	-14.24
5	4.01172	0.26	36.66	26.45	36.92	26.71	56.00	46.00	-19.08	-19.29
6	5.57031	0.32	30.48	19.45	30.80	19.77	60.00	50.00	-29.20	-30.23

- 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



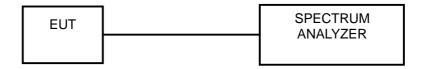


4.3 NUMBER OF HOPPING FREQUENCY USED

4.3.1 LIMIT OF HOPPING FREQUENCY USED

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 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. 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.

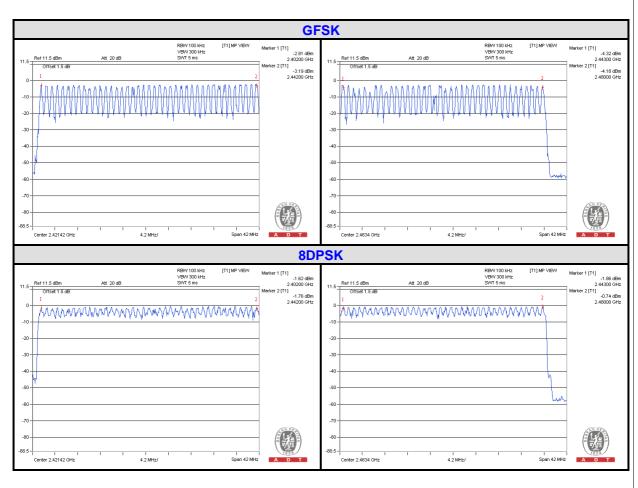
4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

4.3.6 TEST RESULTS

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





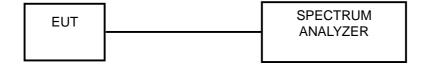


4.4 DWELL TIME ON EACH CHANNEL

4.4.1 LIMIT OF DWELL TIME USED

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.



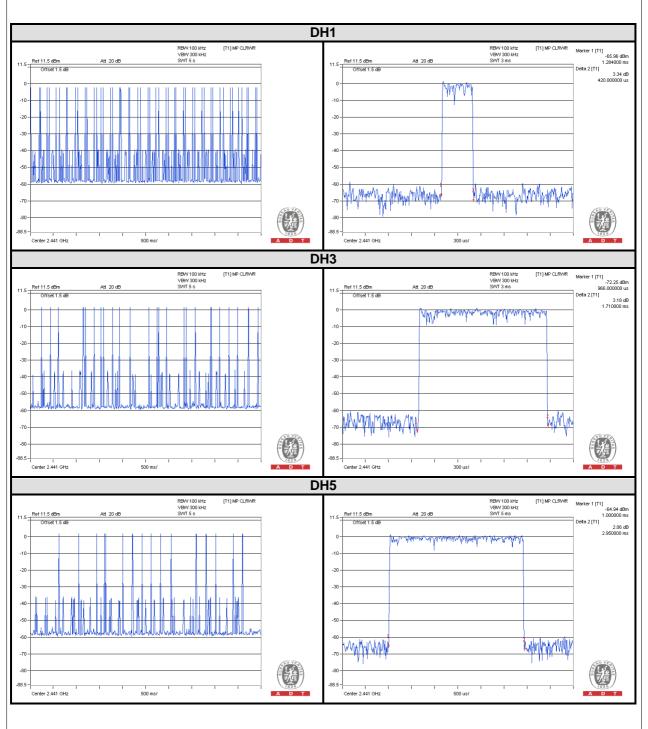
4.4.6 TEST RESULTS

GFSK

Mode	Number of transmission in a 31.6 (79Hopping*0.4)	I transmission		Limit (msec)	
DH1	50 (times / 5 sec) * 6.32 = 316.00times	0.42	132.720	400	
DH3	25 (times / 5 sec) * 6.32 = 158.00 times	1.71	270.180	400	
DH5	16 (times / 5 sec) * 6.32 = 101.12 times	2.95	298.304	400	

NOTE: Test plots of the transmitting time slot are shown on next page.







8DPSK

Mode	Number of transmission in a 31.6 (79Hopping*0.4)	Length of transmission time (msec)	Result (msec)	Limit (msec)
DH1	50 (times / 5 sec) * 6.32 = 316.00times	0.444	140.30400	400
DH3	26 (times / 5 sec) * 6.32 = 164.32 times	1.704	180.00128	400
DH5	17 (times / 5 sec) * 6.32 = 107.44 times	2.970	319.09680	400

NOTE: Test plots of the transmitting time slot are shown on next page.





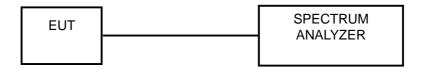


4.5 CHANNEL BANDWIDTH

4.5.1 LIMITS OF CHANNEL BANDWIDTH

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dBbandwidth 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 20dB 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.

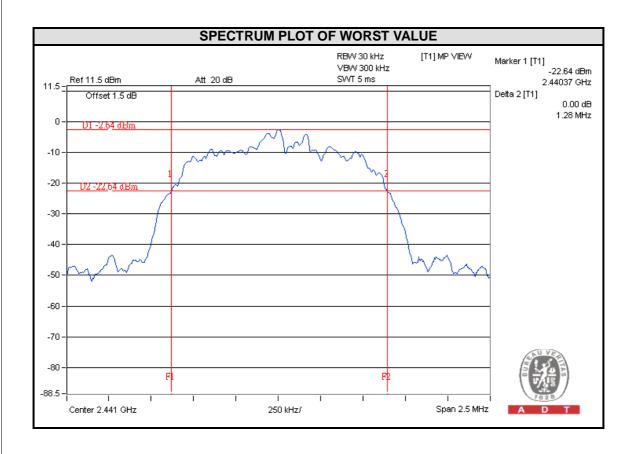
4.5.6 EUT OPERATING CONDITION

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	20dB BAND	WIDTH (MHz)
011/444422	(MHz)	GFSK	8DPSK
0	2402	0.839	1.270
39	2441	0.841	1.280
78	2480	0.840	1.270



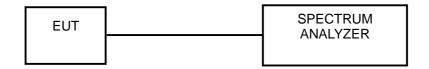


4.6 HOPPING CHANNEL SEPARATION

4.6.1 LIMIT OF HOPPING CHANNEL SEPARATION

At least 25kHz or two-third of 20dB 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 PROCEDURES

- 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

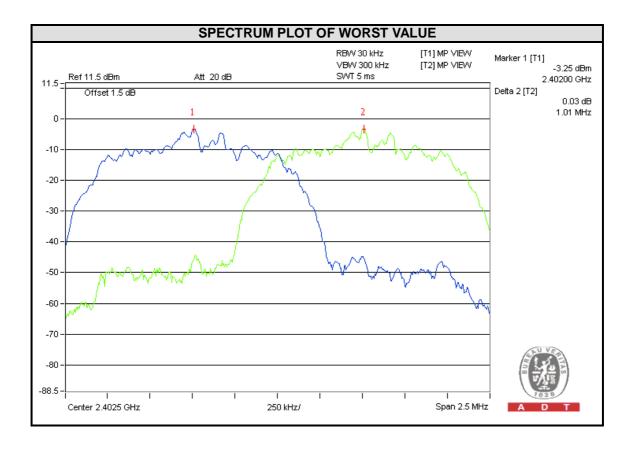
No deviation.



4.6.6 TEST RESULTS

CHANNEL	FREQUENCY (MHz) ADJACENT CHANNEL SEPARATION (MHz)		20dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)		PASS / FAIL	
		GFSK	8DPSK	GFSK	8DPSK	GFSK	8DPSK	
0	2402	1.000	1.010	0.839	1.270	0.599	0.847	PASS
39	2441	1.000	1.000	0.841	1.280	0.561	0.853	PASS
78	2480	1.000	1.000	0.840	1.270	0.560	0.847	PASS

NOTE: The minimum limit is two-third 20dB bandwidth.



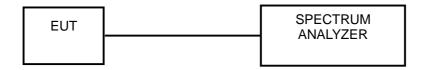


4.7 MAXIMUM OUTPUT POWER

4.7.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 125mW.

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 PROCEDURES

- 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 3MHz 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 FROM TEST STANDARD

No deviation.

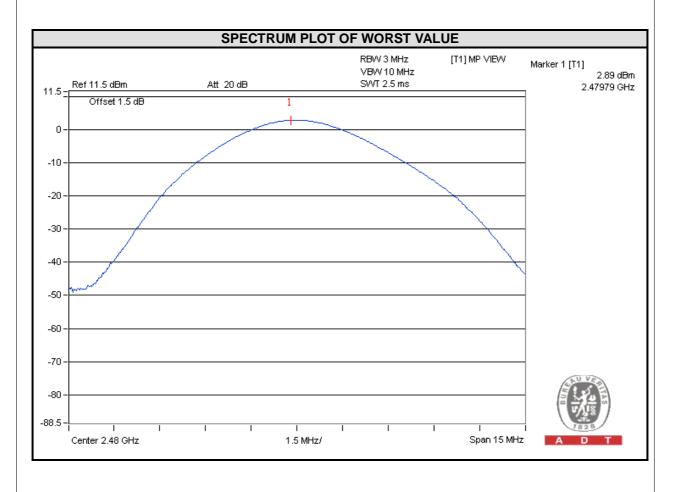
4.7.6 EUT OPERATING CONDITION

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 (dBm)		OUTPUT POWER (mW)		POWER LIMIT (mW)	PASS / FAIL
		GFSK	8DPSK	GFSK	8DPSK		
0	2402	-2.4	1.8	0.6	1.5	125	PASS
39	2441	-1.8	2.6	0.7	1.8	125	PASS
78	2480	-1.6	2.9	0.7	1.9	125	PASS





4.8 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

4.8.1 LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100KHz 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.

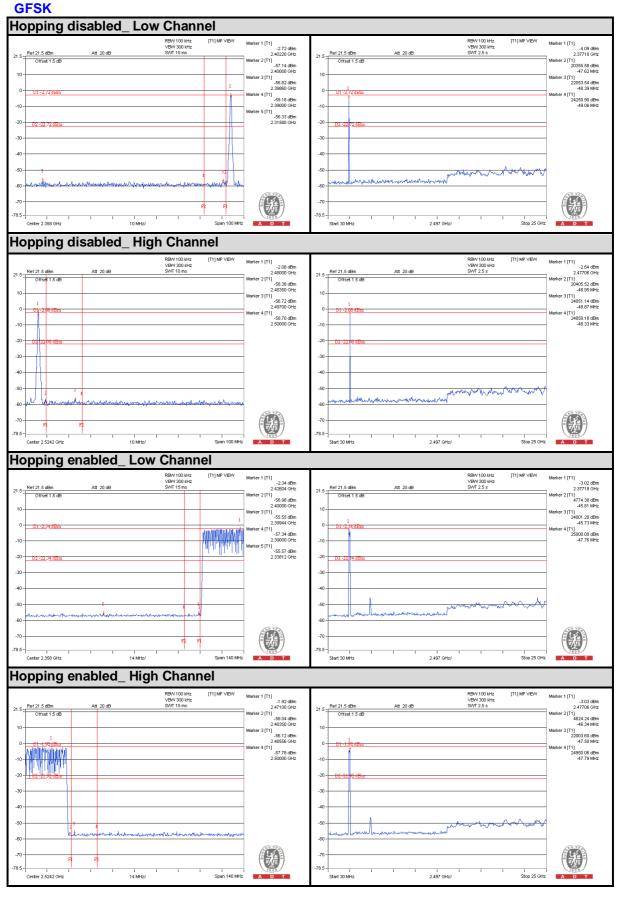
4.8.5 EUT OPERATING CONDITION

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

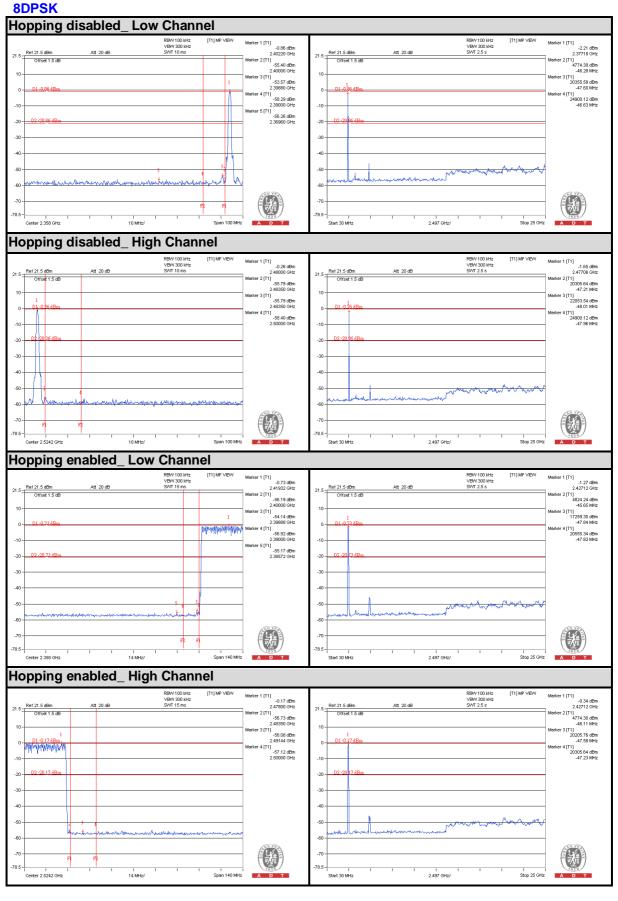
4.8.6 TEST RESULTS

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











5. PHOTOGRAPHS OF THE TEST CONFIGURATION
Please refer to the attached file (Test Setup Photo).



6. 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.



7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--- END ---