



TEST REPORT

Applicant:	KYE SYSTEMS CORP.
Address:	No. 492, Sec. 5, Chongxin Rd., Sanchong Dist., New Taipei City 24160, Taiwan (R. O. C.)

Manufacturer or Supplier	KYE SYSTEMS CORP.
Address	No. 492, Sec. 5, Chongxin Rd., Sanchong Dist., New Taipei City 24160, Taiwan (R. O. C.)
Product	2.4GHz Blue LED Wireless Optical Mouse W30
Brand Name	TOSHIBA
Model:	PA5155
Additional Model & Model Difference:	PA5155* (Where * is 0-9, A-Z, - or blank), see item 3.1
Date of tests:	Aug. 15 ~ Aug. 26, 2013

the tests have been carried out according to the requirements of the following standard:

Ker Contemporary Contemporary Section 15.249(2012-10)

CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement

Tested by Venless Long Specialist / EMC Department	Approved by Glyn He Supervisor / EMC Department			
Venbess	Glyn			
	Date: Jan. 03, 2014			
This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification				

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130815N001-1	Original release	Aug. 26, 2013
RF140102N024-1	Change the applicant and manufacturer information base on the original report.	Jan. 03, 2014





1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249)					
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK		
§15.203	Antenna Requirement	PASS	Compliant		
§15.207 (a)	Conducted Emission	N/A	EUT is powered by battery		
§15.205	Restricted Band of Operation	PASS	Compliant		
§15.209 §15.249(a)	Radiated Emission	PASS	Compliant		
§15.215(c)	20dB Bandwidth Test	PASS	Compliant		

2 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:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.67dB
	30MHz ~1GHz	4.81dB
Radiated emissions	1GHz ~ 18GHz	4.3 dB
	18GHz ~ 40GHz	1.94dB

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





3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	2.4GHz Blue LED Wireless Optical Mouse W30
MODEL NO.	PA5155
FCC ID	FSUGMZL1
NOMINAL VOLTAGE	DC 1.5V from battery
MODULATION TECHNOLOGY	GFSK
OPERATING FREQUENCY	2402-2480MHz
ANTENNA TYPE	Integral PCB Antenna
I/O PORTS	N/A
CABLE SUPPLIED	N/A

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. This report is issued for changing the information of the applicant and manufacter.
- 4. Additional models PA5155*(Where * is 0-9,A-Z, or blank) are identical with the test model PA5155 except the model name for marketing purpose.

3.2 DESCRIPTION OF TEST MODES

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

TESTED CHANNEL	TESTED FREQUENCY
Low	2402 MHz
Middle	2448 MHz
High	2480 MHz

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3.3 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, Section 15.249(2012-10)

ANSI C63.10-2009

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

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

3.4 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	Notebook	HP	4431s	CNU238944Z	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line :Unshielded, Detachable 1.5m;DC Line: Unshielded, Detachable 1.5m





4 TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

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

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), 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.

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4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	Apr. 24,13	Apr. 23,14
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13,14
Bilog Antenna	Teseq	CBL 6111D	25757	Nov. 22,12	Nov. 21,13
Horn Antenna (1GHz -18GHz)	EMCO	3117	00062558	Oct.18,12	Oct.17,13
Pre-Amplifier (20MHz-3GHz)	EMCI	EMC 330	980095	Nov. 02,12	Nov.01,13
Pre-Amplifier (100MHz-26.5GH z)	Agilent	8449B	3008A00409	May 14,13	May 13,14
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Mar. 24,13	Mar. 23,14
Digital Multimeter	FLUKE	15B	A1220010D G	Oct. 31,12	Oct. 30,13
Test Software	ADT	ADT_Radiated _V7.6.15	N/A	N/A	N/A

- **NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 - 2. The test was performed in Dongguan 10m Chamber.
 - 3. The FCC Site Registration No. is 502831.
 - 4. The horn antenna are used only for the measurement of emission frequency above 1GHz if tested.





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 10 meters 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 antenna is a broadband antenna, and its 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 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

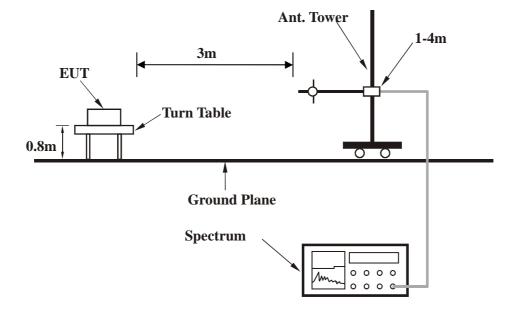
4.1.4 DEVIATION FROM TEST STANDARD

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 condition continuously at specific channel frequency.





4.1.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

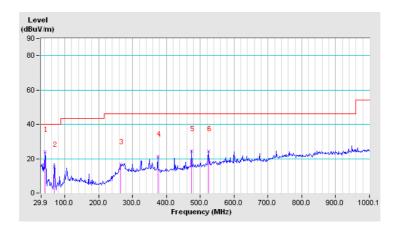
EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL TX Middle Channel		FREQUENCY RANGE Below 1000MHz		
INPUT POWER (SYSTEM)	DC 1 5V from battery	DETECTOR FUNCTION	Quasi-Peak	

	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	41.22	24.1 QP	40.0	-15.9	1.00 H	177	10.37	13.70				
2	68.71	15.4 QP	40.0	-24.6	1.00 H	158	7.78	7.62				
3	264.37	16.8 QP	46.0	-29.2	1.00 H	133	1.45	15.36				
4	374.32	21.3 QP	46.0	-24.7	1.00 H	117	3.94	17.40				
5	474.57	24.6 QP	46.0	-21.5	1.00 H	215	4.20	20.35				
6	524.70	24.4 QP	46.0	-21.6	1.00 H	200	3.21	21.18				

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



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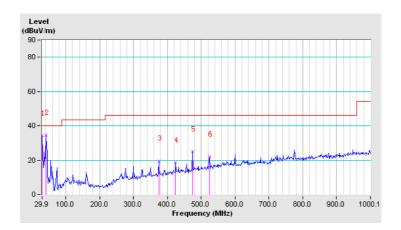


EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL TX Middle Channel		FREQUENCY RANGE	Below 1000MHz	
INPUT POWER (SYSTEM)	DC 1 5V from battery	DETECTOR FUNCTION	Quasi-Peak	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	29.90	34.3 QP	40.0	-5.7	1.50 V	125	14.24	20.07				
2	41.22	34.7 QP	40.0	-5.3	1.50 V	108	20.96	13.70				
3	374.32	19.6 QP	46.0	-26.4	1.27 V	220	2.22	17.40				
4	424.45	18.8 QP	46.0	-27.2	1.12 V	237	-0.36	19.17				
5	474.57	25.1 QP	46.0	-20.9	1.50 V	150	4.79	20.35				
6	524.70	22.2 QP	46.0	-23.8	1.40 V	204	1.05	21.18				

REMARKS:

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



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ABOVE 1GHz WORST-CASE DATA:

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL TX Low Channel		FREQUENCY RANGE	1 ~ 25GHz	
TEST VOLTAGE (SYSTEM)	DC 1 5V from battery		Peak (PK) 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	2400.00	56.2 PK	74.0	-17.8	1.00 H	244	18.93	37.27	
2	2400.00	45.5 AV	54.0	-8.5	1.00 H	244	8.23	37.27	
3	*2402.00	90.9 PK	114.0	-23.1	1.00 H	244	53.63	37.27	
4	*2402.00	89.8 AV	94.0	-4.2	1.00 H	244	52.53	37.27	
5	4804.00	54.4 PK	74.0	-19.6	1.02 H	25	12.79	41.61	
6	4804.00	42.6 AV	54.0	-11.4	1.02 H	25	0.99	41.61	
-		ANTENNA		/ & TEST DI	STANCE: V	ERTICAL A	Т 3 М	-	
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	2400.00	55.3 PK	74.0	-18.7	1.00 V	274	18.03	37.27	
2	2400.00	45.1 AV	54.0	-8.9	1.00 V	274	7.83	37.27	
3	*2402.00	90.6 PK	114.0	-23.4	1.00 V	274	53.33	37.27	
4	*2402.00	89.4 AV	94.0	-4.6	1.00 V	274	52.13	37.27	
5	4804.00	55.9 PK	74.0	-18.1	1.00 V	0	14.29	41.61	
6	4804.00	46.2 AV	54.0	-7.8	1.00 V	0	4.59	41.61	

REMARKS:

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





EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL TX Middle Channel		FREQUENCY RANGE	1 ~ 25GHz	
TEST VOLTAGE (SYSTEM)	DC 1.5V from battery	DETECTOR FUNCTION	Peak (PK) 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	*2448.00	89.8 PK	114.0	-24.2	1.00 H	245	52.45	37.35		
2	*2448.00	89.0 AV	94.0	-5.0	1.00 H	245	51.65	37.35		
3	4896.00	53.1 PK	74.0	-20.9	1.00 H	24	11.38	41.72		
4	4896.00	42.2 AV	54.0	-11.8	1.00 H	24	0.48	41.72		
5	7343.00	56.1 PK	74.0	-17.9	1.00 H	157	10.30	45.80		
6	7343.00	42.6 AV	54.0	-11.4	1.00 H	157	-3.20	45.80		
		ANTENNA		/ & TEST DI	STANCE: V	ERTICAL A	Т 3 М			
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	*2448.00	89.8 PK	114.0	-24.2	1.00 V	275	52.45	37.35		
2	*2448.00	88.8 AV	94.0	-5.2	1.00 V	275	51.45	37.35		
3	4896.00	55.3 PK	74.0	-18.7	1.00 V	0	13.58	41.72		
4	4896.00	47.1 AV	54.0	-6.9	1.00 V	0	5.38	41.72		
5	7344.00	56.2 PK	74.0	-17.8	1.00 V	140	10.40	45.80		
6	7344.00	42.9 AV	54.0	-11.1	1.00 V	140	-2.90	45.80		

REMARKS:

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





EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL TX High Channel		FREQUENCY RANGE	1 ~ 25GHz	
TEST VOLTAGE (SYSTEM)	DC 1 5V from battery		Peak (PK) 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	89.6 PK	114.0	-24.4	1.00 H	294	52.19	37.41		
2	*2480.00	88.8 AV	94.0	-5.2	1.00 H	294	51.39	37.41		
3	2483.50	47.7 PK	74.0	-26.3	1.00 H	294	10.29	37.41		
4	2483.50	35.6 AV	54.0	-18.4	1.00 H	294	-1.81	37.41		
5	4960.00	54.5 PK	74.0	-19.5	1.00 H	270	12.70	41.80		
6	4960.00	45.7 AV	54.0	-8.3	1.00 H	270	3.90	41.80		
7	7440.00	55.6 PK	74.0	-18.4	1.00 H	94	9.78	45.82		
8	7440.00	43.1 AV	54.0	-10.9	1.00 H	94	-2.72	45.82		
-		ANTENNA		& TEST DI	STANCE: V	ERTICAL A	Т 3 М			
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	89.4 PK	114.0	-24.6	1.00 V	274	51.99	37.41		
2	*2480.00	88.1 AV	94.0	-5.9	1.00 V	274	50.69	37.41		
3	2483.50	47.7 PK	74.0	-26.3	1.00 V	274	10.29	37.41		
4	2483.50	35.3 AV	54.0	-18.7	1.00 V	274	-2.11	37.41		
5	4960.00	55.2 PK	74.0	-18.8	1.00 V	354	13.40	41.80		
6	4960.00	46.5 AV	54.0	-7.5	1.00 V	354	4.70	41.80		
7	7440.00	56.5 PK	74.0	-17.5	1.00 V	11	10.68	45.82		
8	7440.00	46.7 AV	54.0	-7.3	1.00 V	11	0.88	45.82		

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable 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 20dB BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Equipment Manufacturer		Model No.	Serial No.	Last Cal.	Next Cal.
Signal Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 26,12	Nov. 25,13
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 14,13	May 13,14
Digital Multimeter	FLUKE	15B	A1220010D G	Oct. 31,12	Oct. 30,13
Bluetooth tester	Rohde&Schwarz	СВТ	100325	N/A	N/A

4.2.2 TEST INSTRUMENTS

- **NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 - 2. The test site was performed in Oven room

4.2.3 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.

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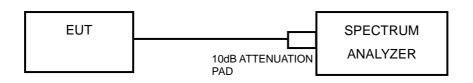




4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.2.7 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2402	1.22
Middle	2448	1.23
High	2480	1.24

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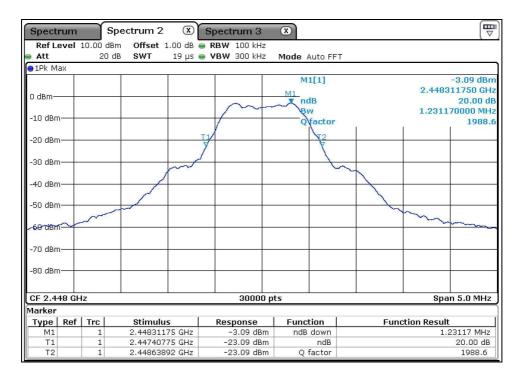




Test Data: Low channel

Spectrum 2 🛞 Spectrum 3 🛪											
Ref Level 10.00 dBm Offset 1.00 dB 🖷 RBW 100 kHz											
Att 20 dB SWT 19 μs e VBW 300 kHz Mode Auto FFT											
IPk Max											
					M	1[1]			-3.25 dBm		
0 dBm				M1				2.4017	26080 GHz		
0.ubm				in		dB			20.00 dB		
-10 dBm-					B		1.217330000 M				
-10 UBIII					Q	factor			1972.9		
-20 dBm			1	1		12					
0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -80 dBm				7		Y					
-30 dBm			1								
-30 UBIII		-	~				\sim				
10 10		1									
-40 dBm							7				
-50 dBm		1									
-50 UBIII	~	\sim									
co docer									mon		
~60-dBm											
-70 dBm											
-80 dBm											
CF 2.402 GHz 30000 pts Span 5.0 MHz											
Marker											
Type Ref	Trc	c Stimulus Response			Func	Function Function Result					
M1	1	2.40172608	3 GHz	-3.25 dB		down			21733 MHz		
T1	1	2.40140825	5 GHz	-23.26 dB	Sectore and a		13.26 dBm ndB				20.00 dB
T2	1	2.40262558	3 GHz	-23.25 dB	m Q	factor			1972.9		
<u></u>											

Test Data: Middle channel



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Test Data: High channel

Spectrum 2 🛞 Spectrum 3 🛞								
Ref Level 10.00 dBm Offset 1.00 dB 🖷 RBW 100 kHz								
Att	20 dB	SWT 19 µ	s 🥃 VBW 300 ki	Hz Mode	Auto FF	Т		
● IPk Max								
				M	1[1]			-3.17 dBm
0 dBm			M1				2.4797	18250 GHz
0 ubm			1 in		dB	20.0		
-10 dBm					8w 1.240000			
TO GDIII			1	Q	factor	1	1	1999.8
-20 dBm			TI		12			
20 00.			7		Y			
-30 dBm								
		~				\sim		
-40 dBm								
		1						
-50 dBm								
	~					~	~	
~60 dBm				-			~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-70 dBm					-			
-80 dBm					-			
CF 2.48 GHz			3000)0 pts		I		n 5.0 MHz
Marker	5		0000	10 P.5			opo	
Type Ref	Trc	Stimulus	Response	Eupo	tion	Eup	ction Result	- 1
M1	1	2.47971825 GH		Function m ndB down				1.24 MHz
T1	1	2.47939892 GH				20.00 dB		
T2	1	2.48063892 GH	2 -23.17 d	Bm Q	factor			1999.8





5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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





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

No any modifications are made to the EUT by the lab during the test.

---END----

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