



FCC Radio Test Report

FCC ID: VO8-LW12

This report concerns (check one): Original Grant Class II Change

For

Bluetooth Headset

Model Name: LW12

Brand Name: Quikcell

Report No.: ENC110221GZ22F1

Date of Issue: Feb.25, 2011

Prepared For

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1. CERTIFICATION

Applicant:	Guangzhou Liwei Electronics Co., LTD.
Address:	No.33, Zhenzhongbei Road, Shenshan Industrial Park Baiyun District, Guangzhou 510005 P.R., china
Manufacturer/Factory:	Guangzhou Liwei Electronics Co., LTD.
Address:	No.33, Zhenzhongbei Road, Shenshan Industrial Park Baiyun District, Guangzhou 510005 P.R., china
Product Description:	Bluetooth Headset
Brand Name:	Quikcell
Model Number:	LW12
FCC ID:	VO8-LW12
Report Number:	ENC110221GZ22F1
Date of Test:	Feb.18, 2011~Feb.25, 2011
Standards:	FCC Part15, Subpart C(15.247)/ANSI C63.4: 2003

WE HEREBY CERTIFY THAT:

The above equipment was tested by East Notice Certification Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Checked By Yemig

Yemig Feb.25, 2011

Authorized By Ray Zhou

Ray Zhou Feb.25, 2011

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(c)	Antenna conducted Spurious Emission	PASS	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247 (b)(1)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(1)(iii)	Dwell Time	PASS	
15.205	Restricted Bands	PASS	
15.203	Antenna Requirement	PASS	
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS	

NOTE:

Pass: The EUT complies with the essential requirements in the standard.

Fail: The EUT does not comply with the essential requirements in the standard.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **GZ-C03/ GZ-C02** at the location of Guangdong Environment Radiation Inspection Centre, No. 860, South Guangzhou Avenue, Guangzhou 510300, China
FCC register No.: 429353

2.2 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:

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
GZ-C03	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	NOTE
GZ-C02	CISPR	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name	Bluetooth Headset
Model Name	LW12
Operation Frequency	2402MHz~2480MHz
No. of Channel	79
Channel separation:	1MHz
Modulation type	FHSS
Antenna Type:	Integral
Antenna gain:	2.0dBi
Output Power	0.19dBm
Channel List	Please refer to the Note 2.
Power Source	DC Voltage supplied from AC/DC adapter & Li-ion battery
Power Rating	#AC/DC Adapter : Model name:TAD437E8E I/P AC 100-240V~ 50-60Hz, 0.15A, O/P 5.0V, 0.3A, # Li-ion battery, 3.7Vdc
Connecting I/O Port(s)	Please refer to the User's Manual
Products Covered	N/A

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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Note 2: Channel List

Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2402	28	2429	55	2456
2	2403	29	2430	56	2457
3	2404	30	2431	57	2458
4	2405	31	2432	58	2459
5	2406	32	2433	59	2460
6	2407	33	2434	60	2461
7	2408	34	2435	61	2462
8	2409	35	2436	62	2463
9	2410	36	2437	63	2464
10	2411	37	2438	64	2465
11	2412	38	2439	65	2466
12	2413	39	2440	66	2467
13	2414	40	2441	67	2468
14	2415	41	2442	68	2469
15	2416	42	2443	69	2470
16	2417	43	2444	70	2471
17	2418	44	2445	71	2472
18	2419	45	2446	72	2473
19	2420	46	2447	73	2474
20	2421	47	2448	74	2475
21	2422	48	2449	75	2476
22	2423	49	2450	76	2477
23	2424	50	2451	77	2478
24	2425	51	2452	78	2479
25	2426	52	2453	79	2480
26	2427	53	2454		
27	2428	54	2455		

Note 3: Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
-	-	-	PRINTED ANT	N/A	2.0	BT Antenna

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00 (1Mbps) EUT only
Mode 2	CH39 (1Mbps) EUT only
Mode 3	CH78 (1Mbps) EUT only
Mode 4	Charger Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Emission	
Final Test Mode	Description
Mode 4	Charger Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH00 (1Mbps) EUT only
Mode 2	CH39 (1Mbps) EUT only
Mode 3	CH78 (1Mbps) EUT only

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.

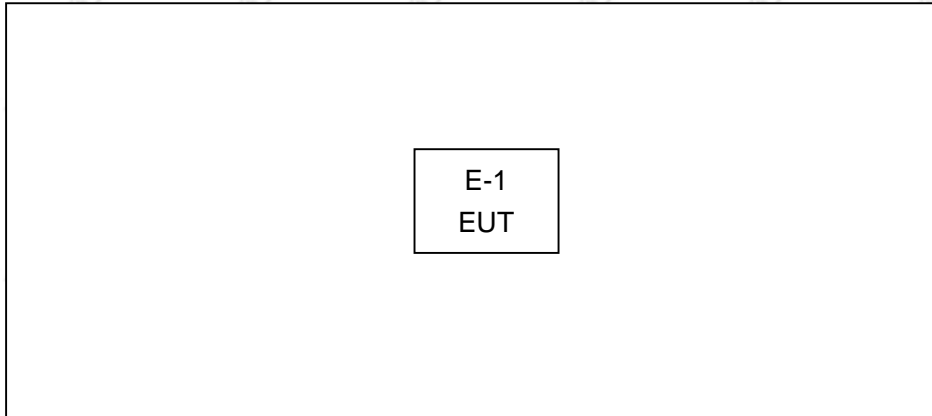
3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: Bluetest.exe		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters-1Mbps	3	3	3

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3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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3.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Bluetooth Headset	Quikcell	LW12	VO8-LW12	N/A	EUT

Item	Shielded Type	Ferrite Core	Length Note	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15-0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50-5.0	73.00	60.00	56.00	46.00	CISPR
5.0-30.0	73.00	60.00	60.00	50.00	CISPR

0.15-0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50-5.0	73.00	60.00	56.00	46.00	FCC
5.0-30.0	73.00	60.00	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	05/28/2011
2	LISN	Rolf Heine	NNB-2-16Z	99044	05/28/2011
3	50Ω Terminator	SHX	TF2-3G-A	08122901	05/28/2011
4	Transient Limiter	Agilent	11947A	3107A03668	05/28/2011
5	Test Cable	N/A	C-06_C03	N/A	05/28/2011
6	Emi Test Receiver	R&S	ESCS30	8333641017	05/28/2011

Remark: " N/A " denotes No Model No. , Serial No. or No Calibration specified.

Receiver Parameters Setting

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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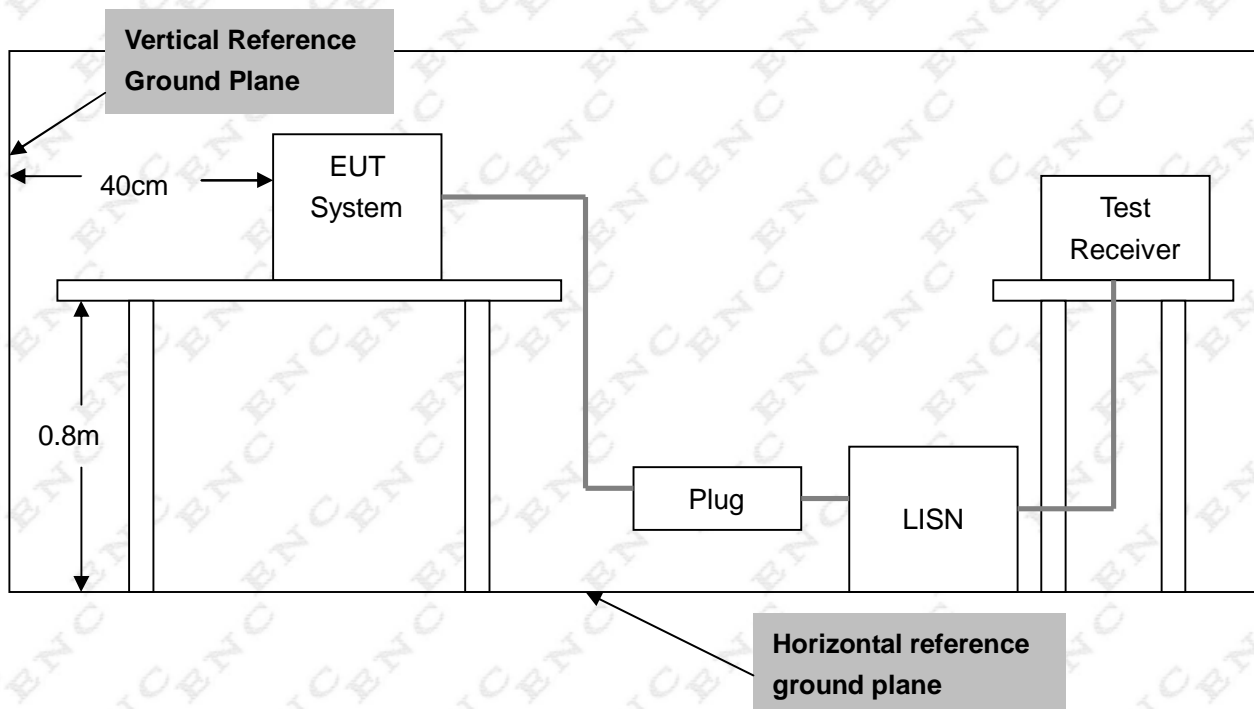
4.1.3 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 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 cm from other units and other metal planes Vertical Reference Ground Plane*

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4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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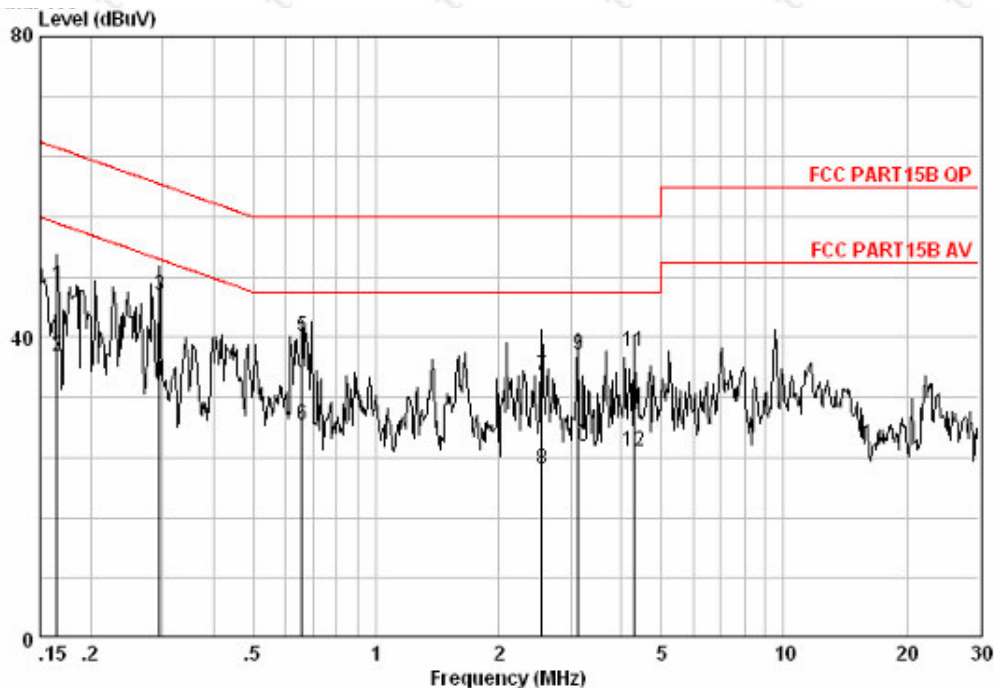
4.1.7 TEST RESULTS

EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	AC 120V/60Hz
Test Mode:	Charger Mode		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.165	Line	46.94	*	65.21	55.21	-18.27	(QP)
0.294	Line	45.52	*	60.41	50.41	-14.89	(QP)
0.658	Line	40.21	*	56.00	46.00	-15.79	(QP)
2.559	Line	34.92	*	56.00	46.00	-21.08	(QP)
3.140	Line	37.61	*	56.00	46.00	-18.39	(QP)
4.315	Line	38.25	*	56.00	46.00	-17.75	(QP)

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 『 Note 』 . If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。 In this case, a “*” marked in AVG Mode column of Interference Voltage Measured。
- (2) Measuring frequency range from 150KHz to 30MHz。



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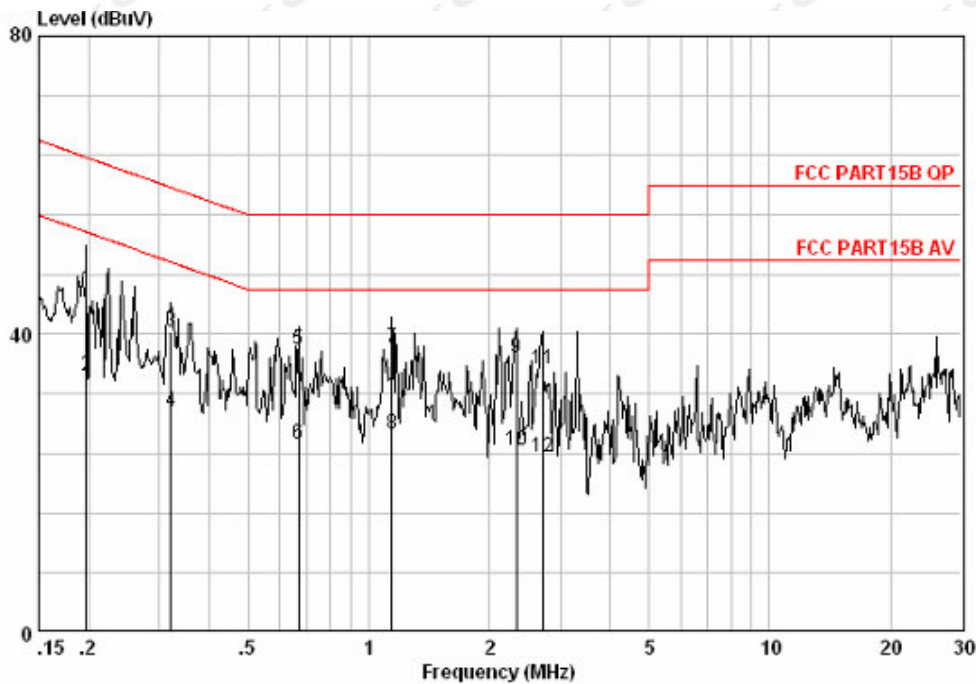


EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	AC 120V/60Hz
Test Mode:	Charger Mode		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.198	Neutral	45.97	*	63.71	55.21	-17.74	(QP)
0.320	Neutral	40.24	*	59.71	49.71	-19.47	(QP)
0.668	Neutral	38.04	*	56.00	46.00	-17.96	(QP)
1.141	Neutral	38.21	*	56.00	46.00	-17.79	(QP)
2.334	Neutral	36.77	*	56.00	46.00	-19.23	(QP)
2.707	Neutral	35.40	*	56.00	46.00	-20.60	(QP)

Remark:

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.2 sec./MHz。 Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.2 sec./MHz。
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “*” marked in AVG Mode column of Interference Voltage Measured。
- (3) Measuring frequency range from 150KHz to 30MHz。



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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed. Frequencies

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequencies (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

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4.2.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	ETS	3115	00075789	05/28/2011
2	Amplifier	Agilent	8449B 3	008A02274	05/28/2011
3	Spectrum	Agilent	E4408B	US39240143	05/28/2011
4	Test Cable	HUBER+SUHNER	GZ02 High Fre	N/A	05/28/2011
5	Antenna	Schwarbeck	VULB9160	9160-3232	05/28/2011
6	Amplifier	HP	8447D	2944A09673	05/28/2011
7	Test Receiver	R&S	ESCI	100895	05/28/2011
8	Test Cable	N/A	C-01_GZ02	N/A	05/28/2011
9	Controller	CT	SC100	N/A	N/A

Remark: "N/A" denotes No Model Name / Serial No. and No Calibration specified.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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4.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. 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.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

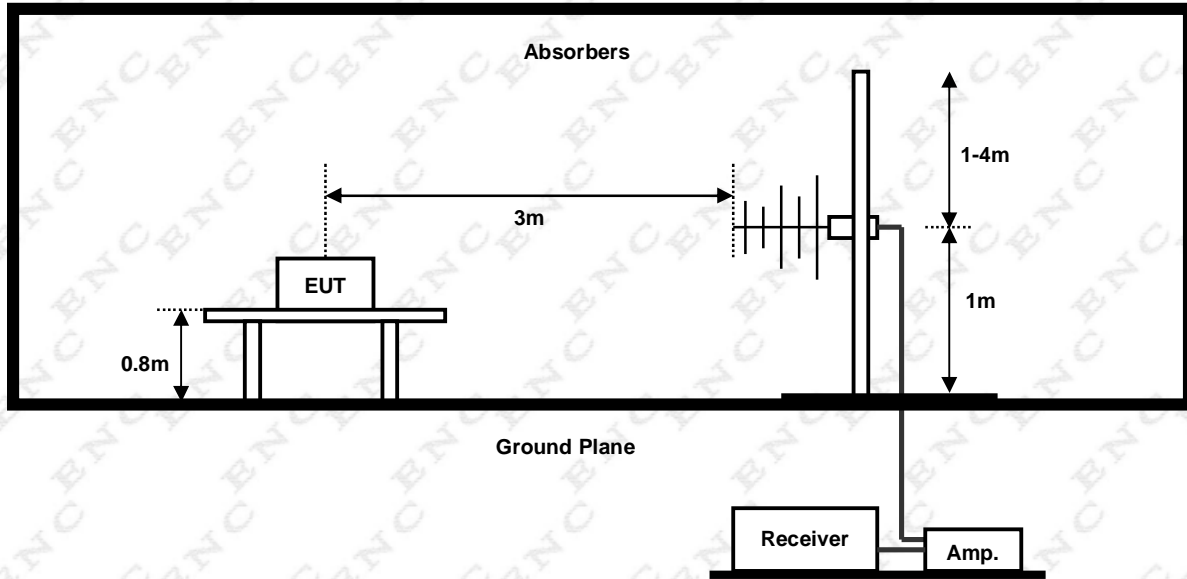
No deviation

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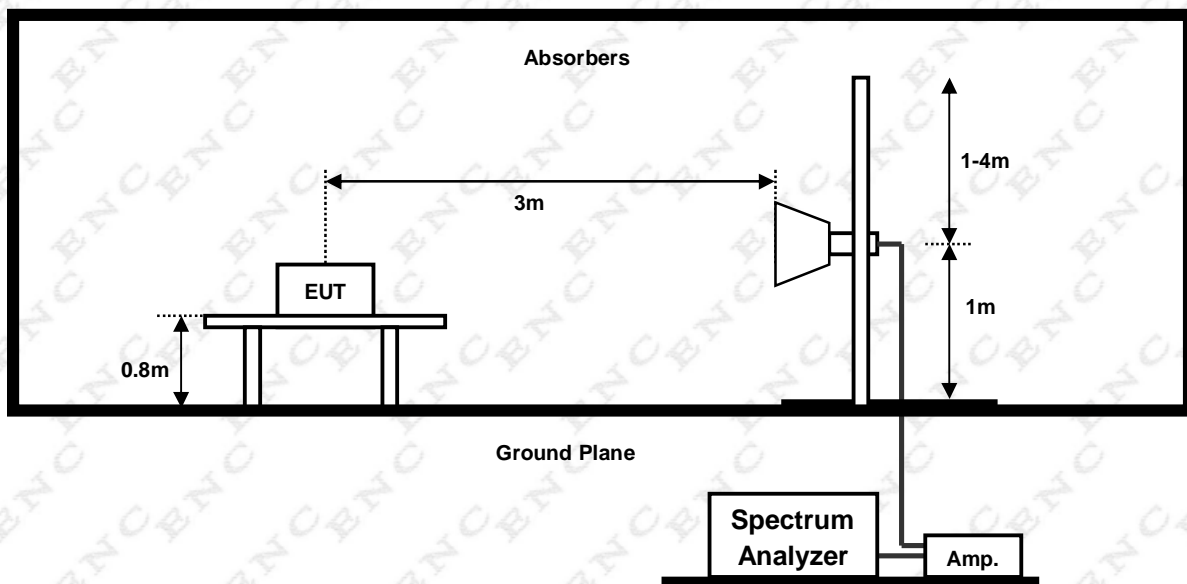


4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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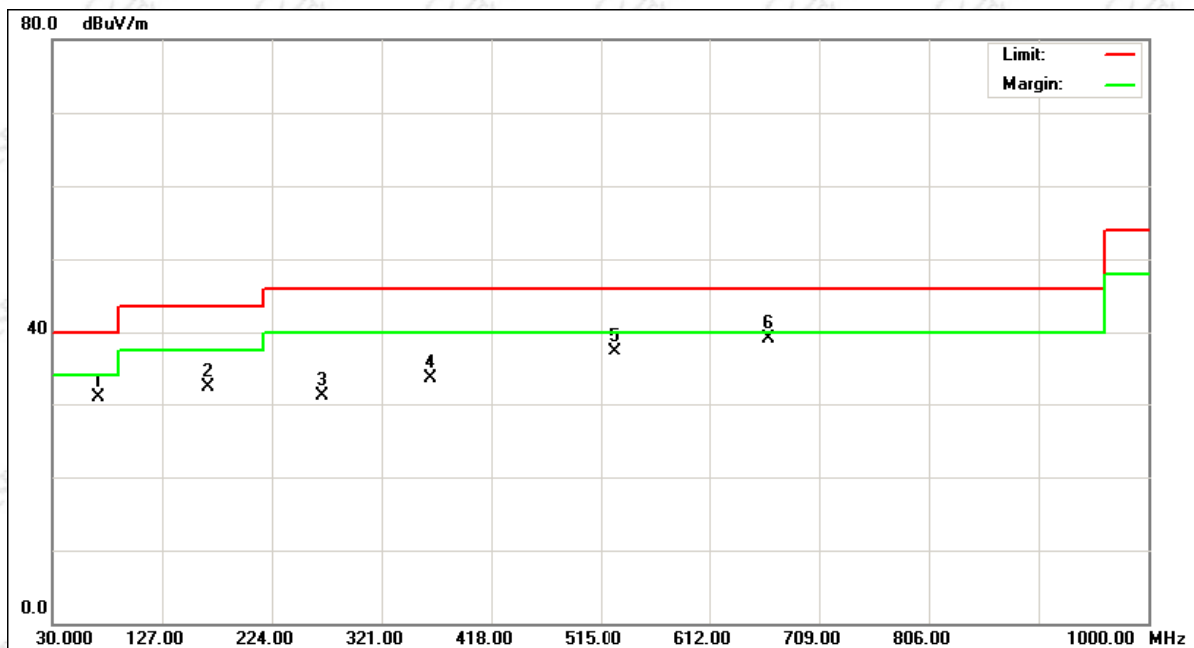
4.2.7 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX 2402MHz –CH00-1Mbps		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
70.74	V	55.50	-24.56	30.94	40.00	-9.06	
167.74	V	51.33	-19.03	32.30	43.50	-11.20	
268.62	V	46.70	-15.51	31.19	46.00	-14.81	
363.68	V	47.97	-14.41	33.56	46.00	-12.44	
528.58	V	46.81	-9.50	37.31	46.00	-8.69	
664.38	V	45.93	-6.92	39.01	46.00	-6.99	

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.



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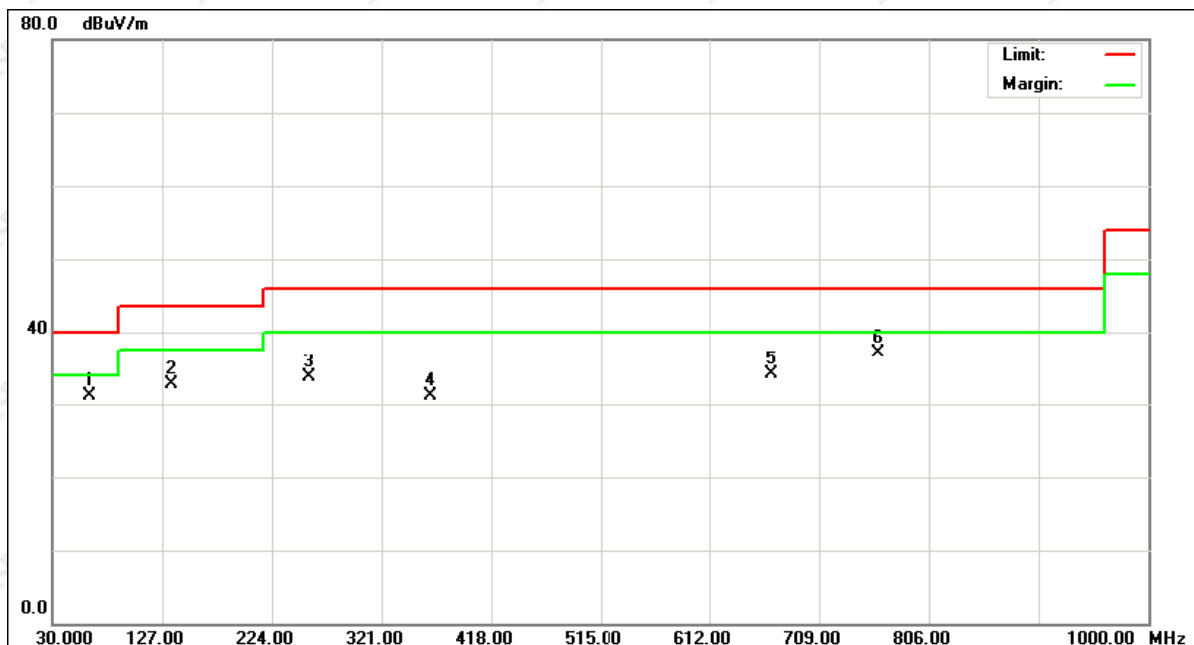


EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX 2402MHz –CH00-1Mbps		

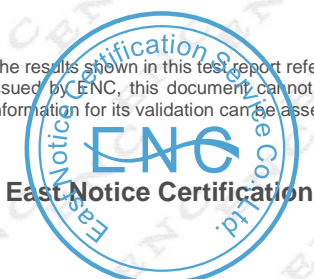
Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
62.98	H	55.10	-24.08	31.02	40.00	-8.98	
134.76	H	54.63	-21.86	32.77	43.50	-10.73	
256.98	H	50.14	-16.45	33.69	46.00	-12.31	
363.68	H	45.60	-14.41	31.19	46.00	-14.81	
666.32	H	40.85	-6.83	34.02	46.00	-11.98	
761.38	H	43.80	-5.92	37.88	46.00	-8.12	

Remark

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.



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4.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX 2402MHz – CH 00-1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act. Limit		Peak (dBuV/m)	AV (dBuV/m)	Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)			
2390.00	V	21.72	10.61	31.54	53.26	42.15	74.00	54.00	X/E
2401.90	V	57.99	57.44	31.56	89.55	89.00			X/F
1602.34	V	47.62	40.66	-4.37	43.25	36.29	74.00	54.00	X/H
4803.94	V	43.28	38.01	5.94	49.22	43.95	74.00	54.00	X/H

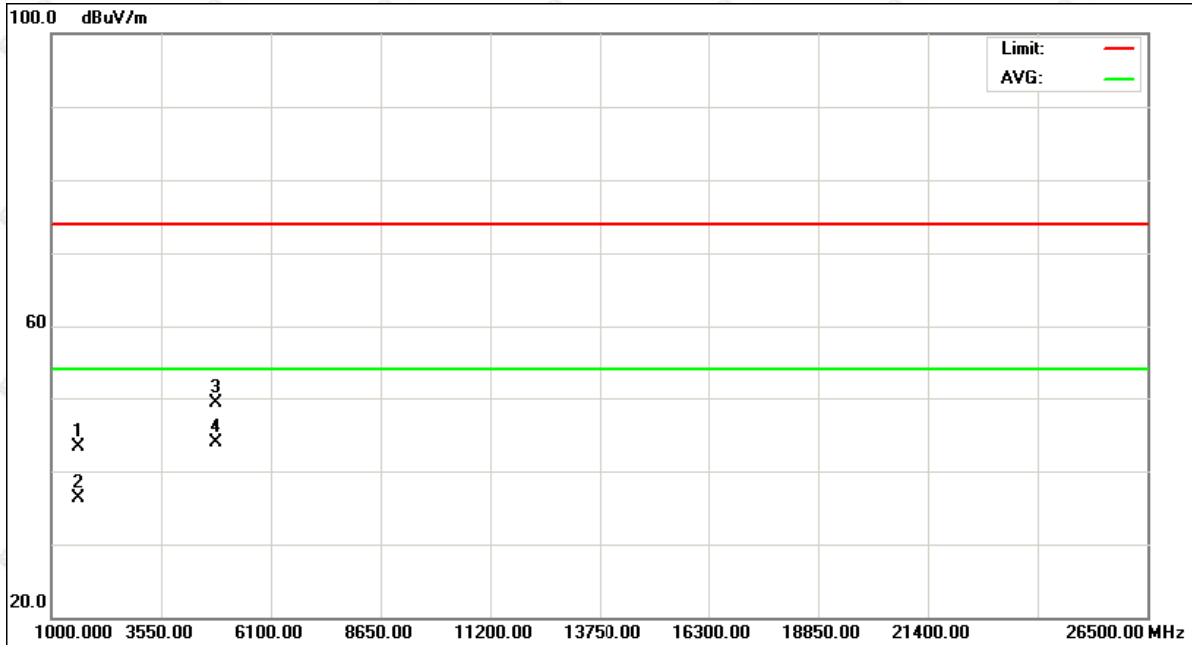
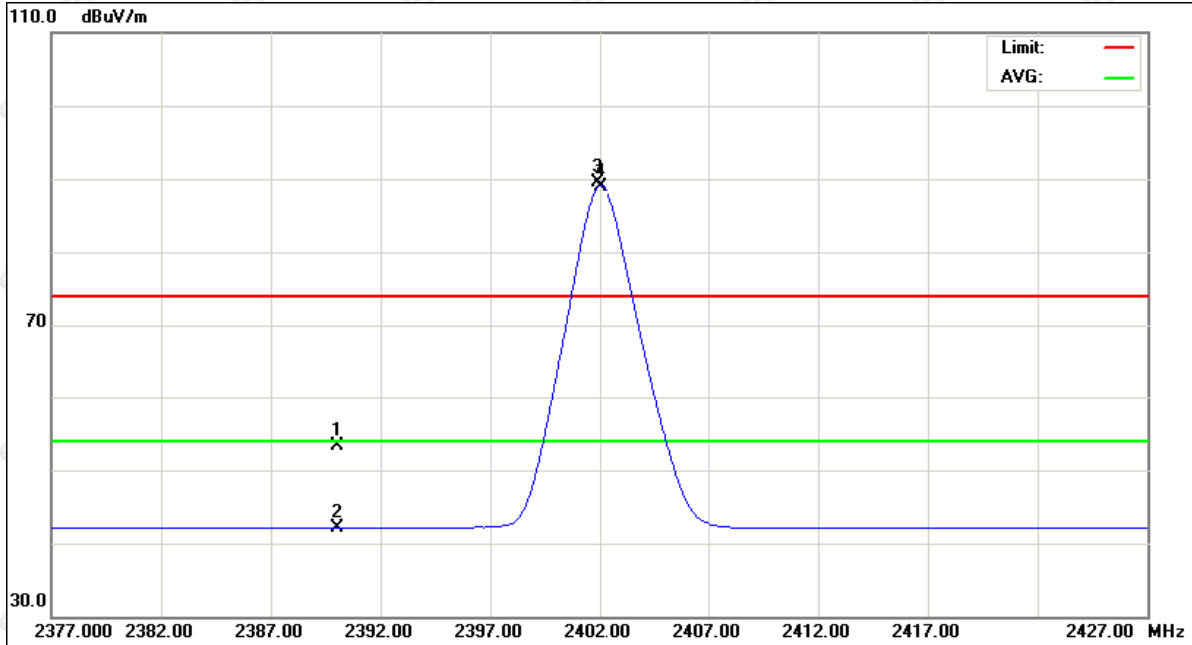
Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『 Note 』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within

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TX CH00 (Above 1000 MHz, Vertical)



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EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX 2402MHz – CH 00-1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act. Limit		Peak (dBuV/m)	AV (dBuV/m)	Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)			
2390.00	H	21.26	10.72	31.54	52.80	42.26	74.00	54.00	X/E
2402.20	H	65.32	64.74	31.56	96.88	96.30			X/F
1602.34	H	47.66	39.35	-4.37	43.29	34.98	74.00	54.00	X/H
4803.96	H	50.11	45.67	5.94	56.05	51.61	74.00	54.00	X/H

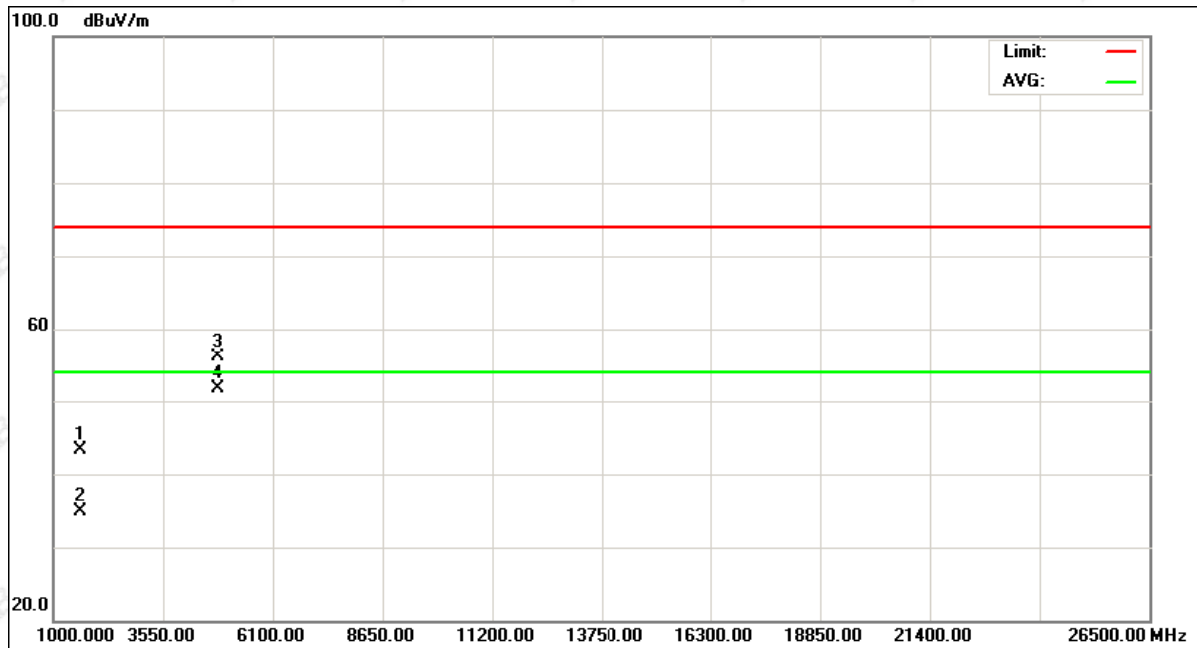
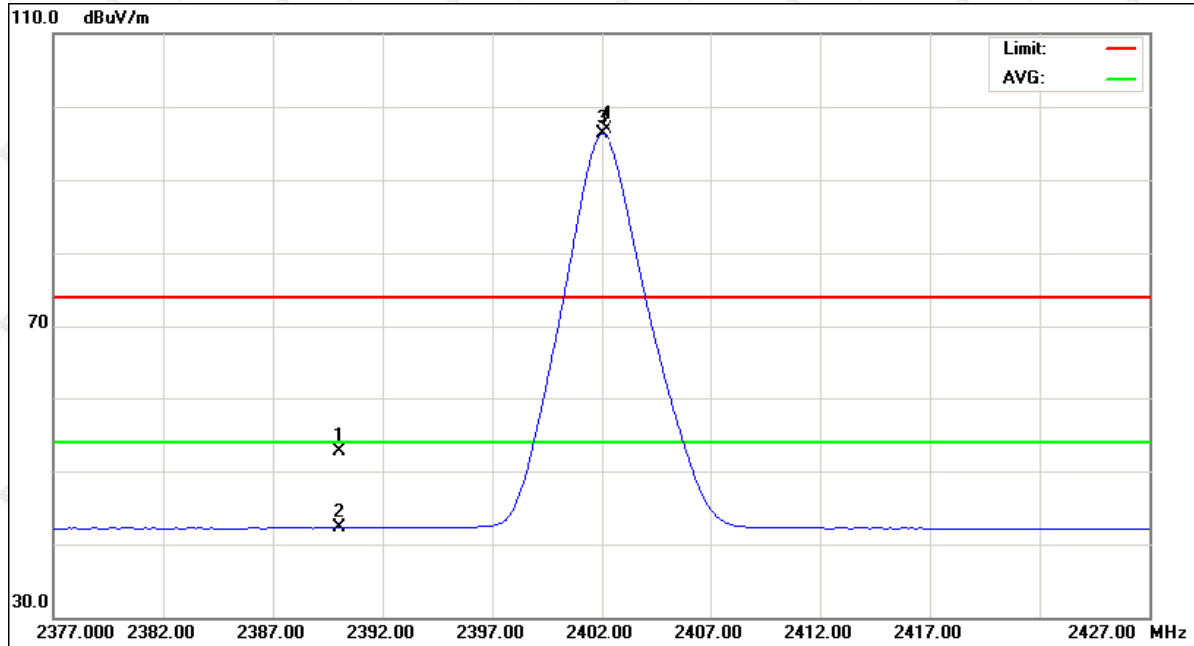
Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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TX CH00 (Above 1000 MHz, Horizontal)



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EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX 2441MHz –CH39-1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act. Limit		Peak (dBuV/m)	AV (dBuV/m)	Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)			
2441.10	V	58.30	57.66	31.63	89.93	89.29			X/F
1627.14	V	48.37	41.16	-4.18	44.19	36.98	74.00	54.00	X/H
4882.05	V	43.15	38.47	6.17	49.32	44.64	74.00	54.00	X/H

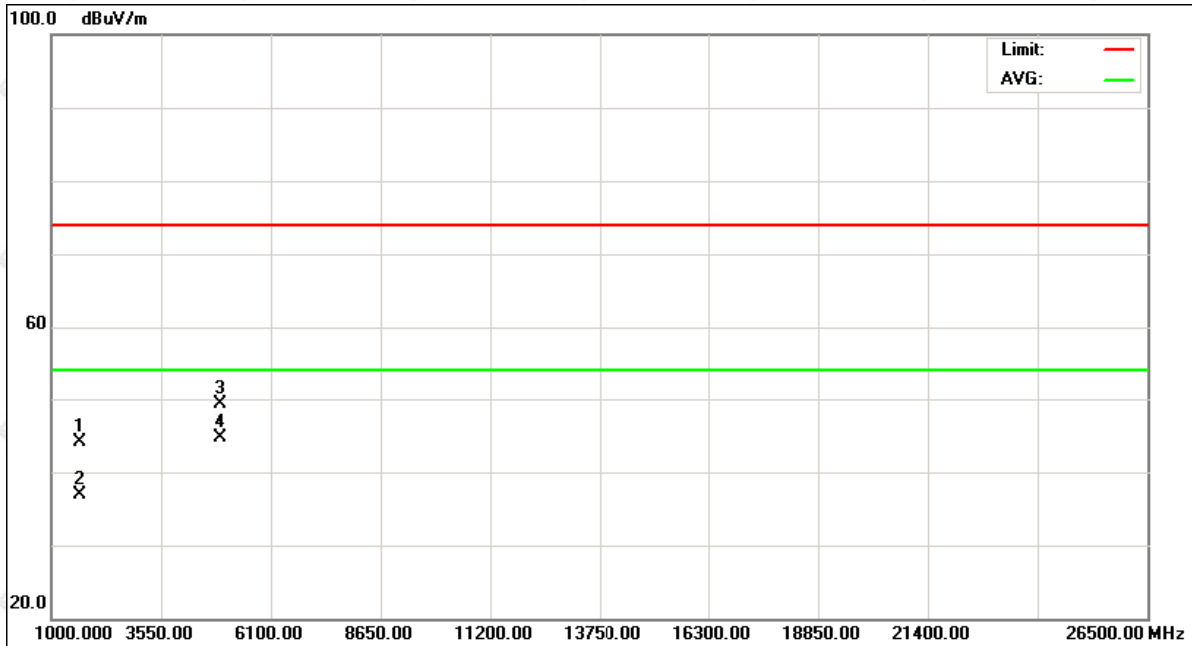
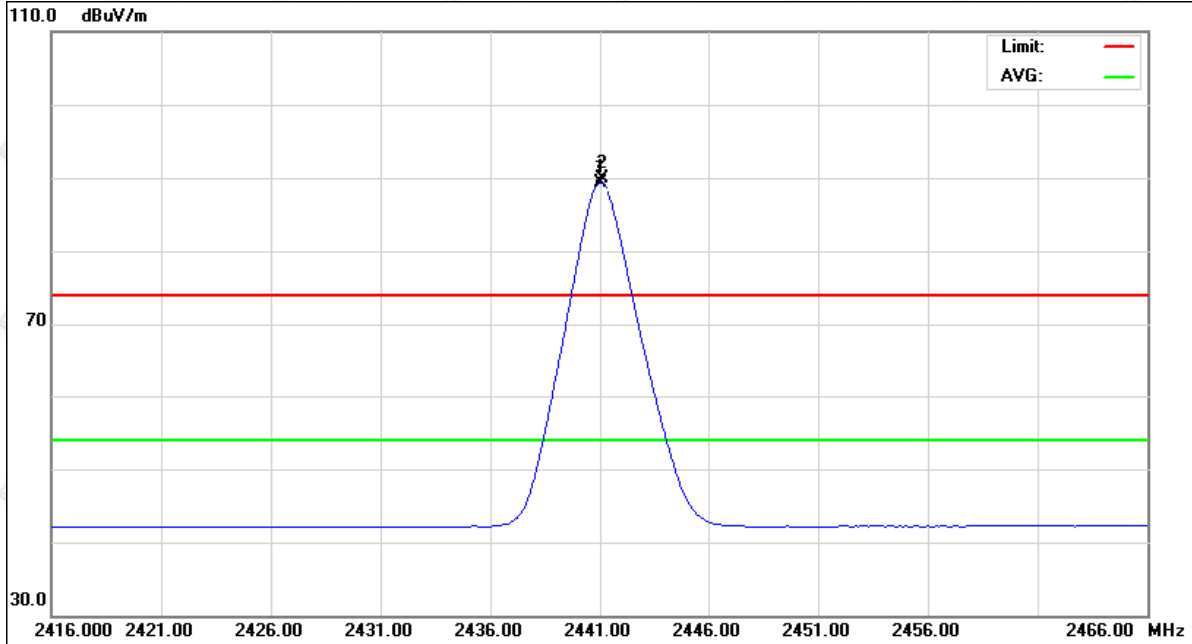
Remark

- (1) All readings are Peak unless otherwise stated QP in column of [Note] . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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TX CH39 (Above 1000 MHz, Vertical)



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EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX 2441MHz –CH39-1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act. Limit		Peak (dBuV/m)	AV (dBuV/m)	Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)			
2441.10	H	64.34	63.74	31.63	95.97	95.37			X/F
1627.14	H	46.35	38.96	-4.18	43.17	34.78	74.00	54.00	X/H
4882.05	H	50.15	44.87	6.17	56.32	51.04	74.00	54.00	X/H

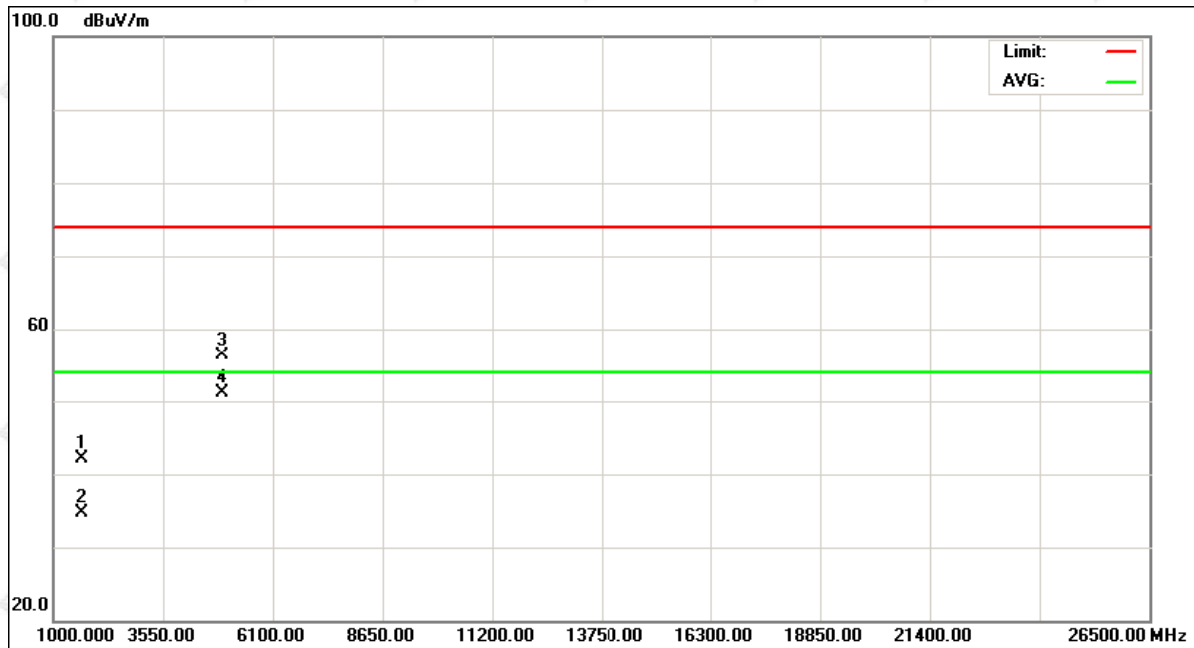
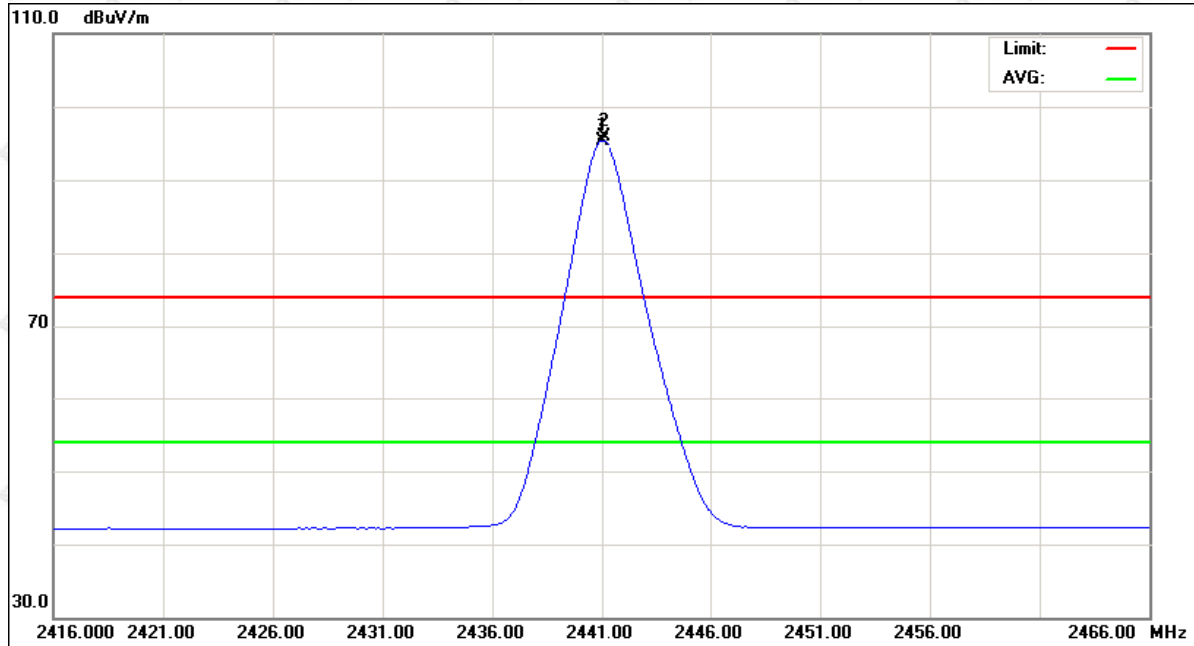
Remark:

- (1) All readings are Peak unless otherwise stated QP in column of [Note] . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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TX CH39 (Above 1000 MHz, Horizontal)



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EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX 2480MHz –CH78-1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act. Limit		Peak (dBuV/m)	AV (dBuV/m)	Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)			
2480.00	V	58.57	58.00	31.69	90.26	89.69			X/F
2483.50	V	23.07	16.04	31.70	54.77	47.74	74.00	54.00	X/E
1654.22	V	44.25	36.99	-3.98	40.27	33.01	74.00	54.00	X/H
4959.88	V	42.37	37.15	6.40	48.77	43.55	74.00	54.00	X/H

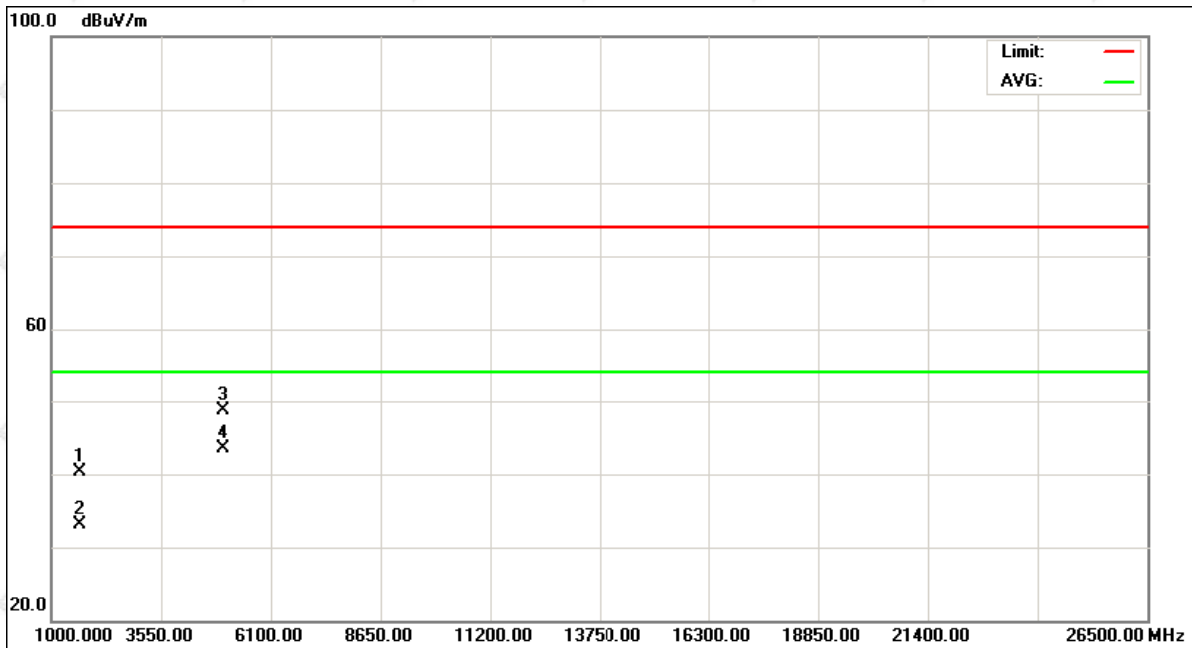
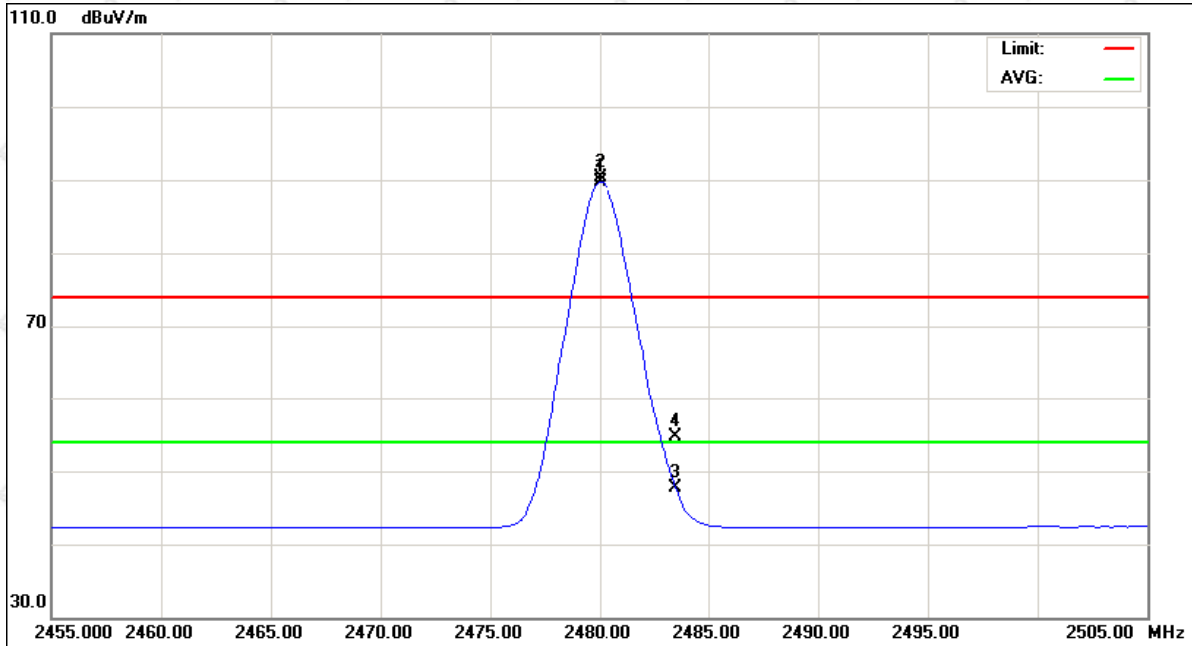
Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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TX CH78 (Above 1000 MHz, Vertical)



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EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	TX 2480MHz -CH78-1Mbps		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act. Limit		Peak (dBuV/m)	AV (dBuV/m)	Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)			
2480.00	H	63.78	63.08	31.69	95.47	94.77			X/F
2483.50	H	23.05	17.73	31.70	54.75	49.43	74.00	54.00	X/E
1654.22	H	47.24	39.74	-3.98	43.26	35.76	74.00	54.00	X/H
4959.94	H	49.79	45.24	6.40	56.19	51.64	74.00	54.00	X/H

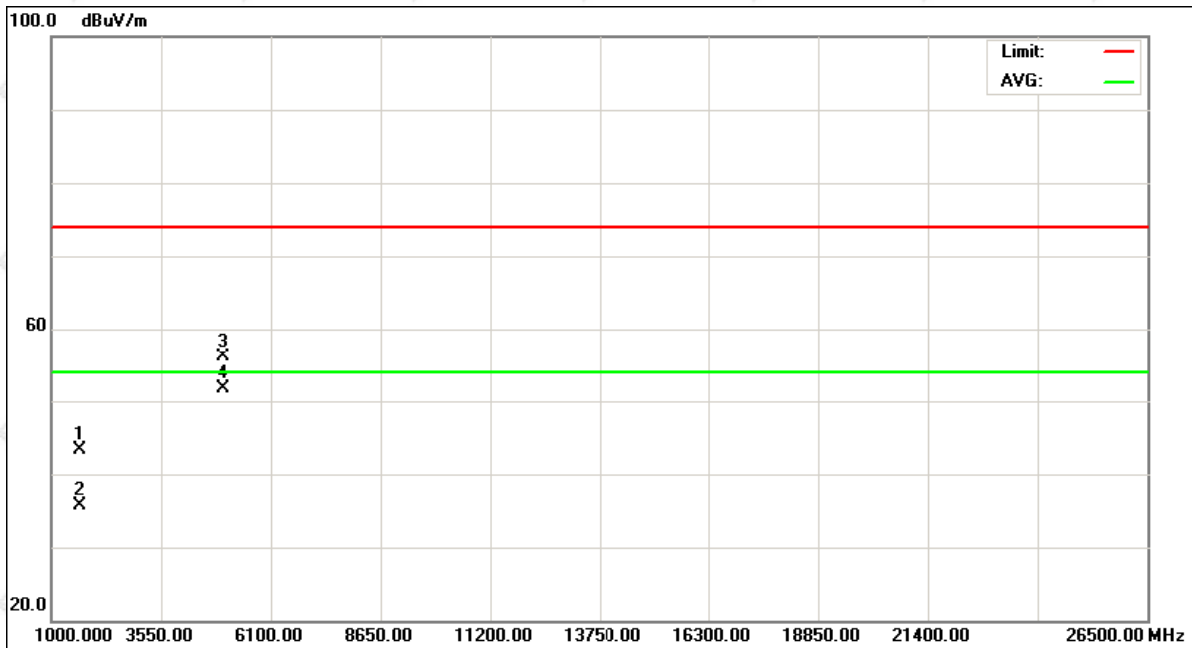
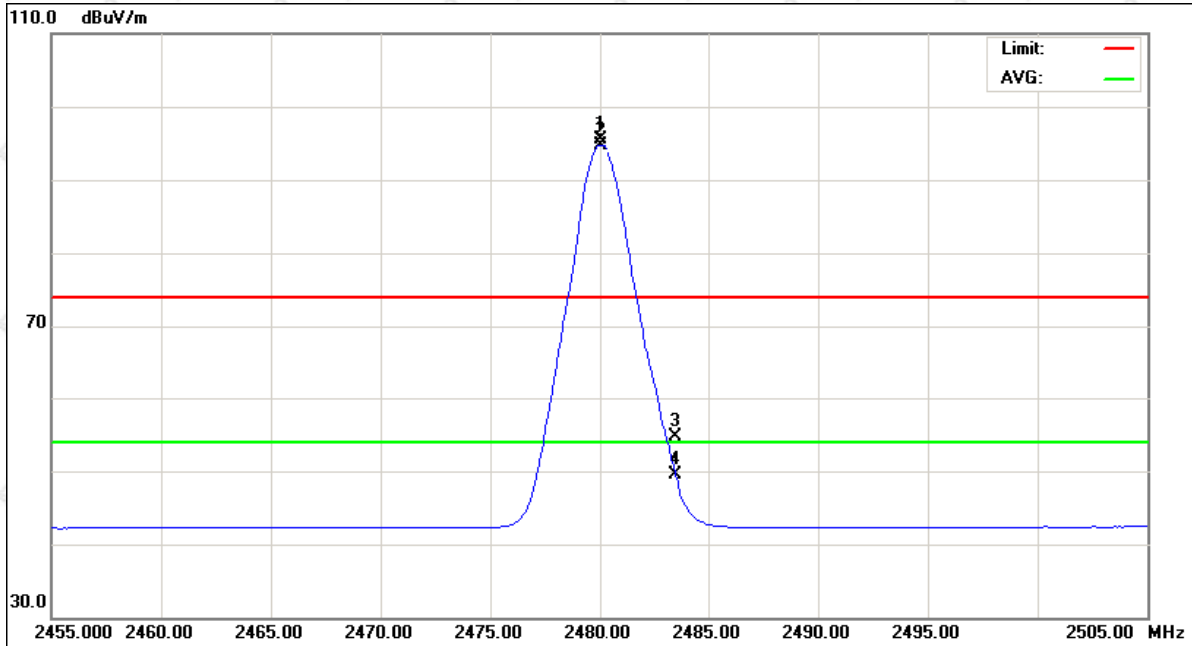
Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency . "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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TX CH78 (Above 1000 MHz, Horizontal)



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5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS

5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	118736	05/28/2011

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

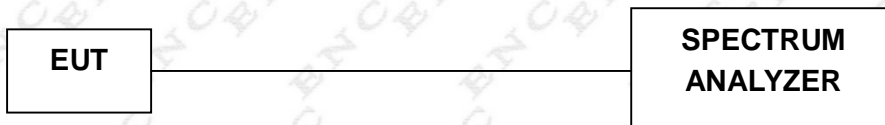
5.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



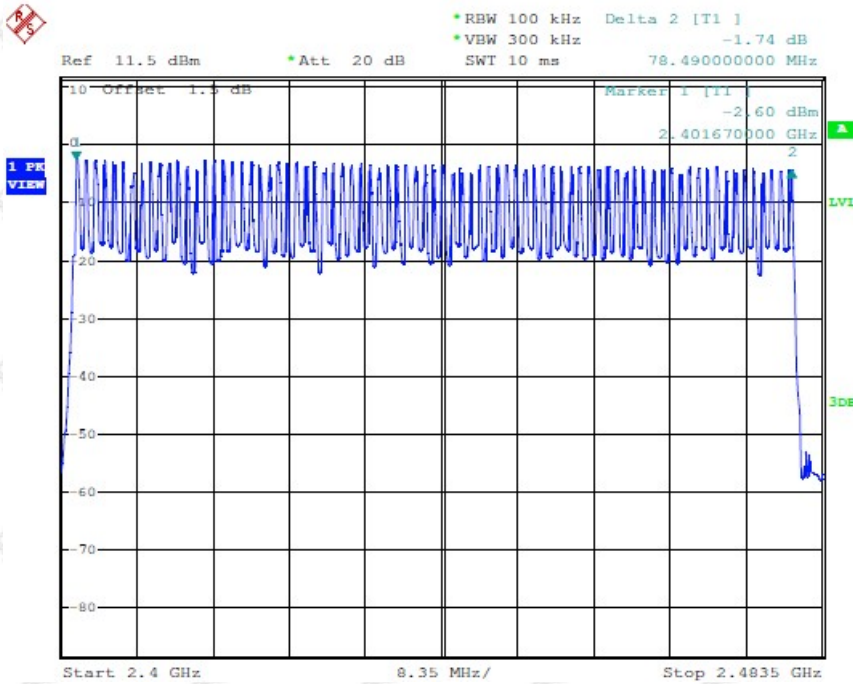
5.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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5.1.6 TEST RESULTS

EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	Hopping Mode -1Mbps		
Number of Hopping Channel		79	



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6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	118736	05/28/2011

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

6.1.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- j. DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds.
- k. DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds.

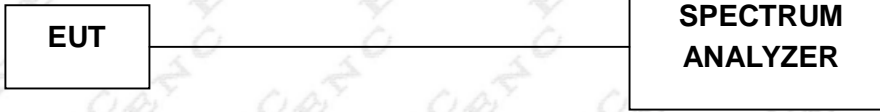
6.1.3 DEVIATION FROM STANDARD

No deviation.

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6.1.4 TEST SETUP



6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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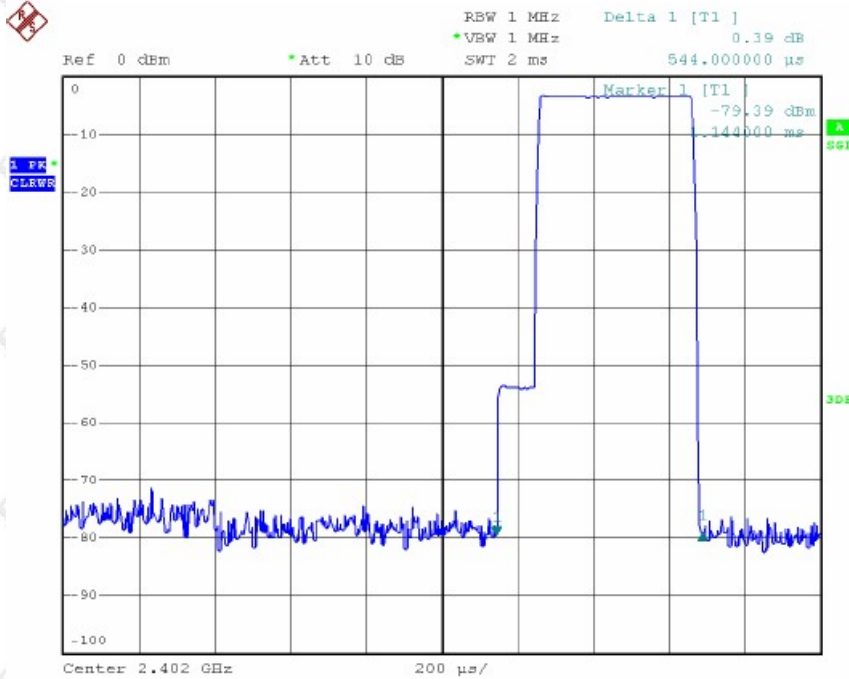


6.1.6 TEST RESULTS

EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	CH00-DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2402MHz	0.544	0.329	≤0.400
DH3	2402MHz	1.884	0.301	≤0.400
DH5	2402MHz	3.080	0.174	≤0.400

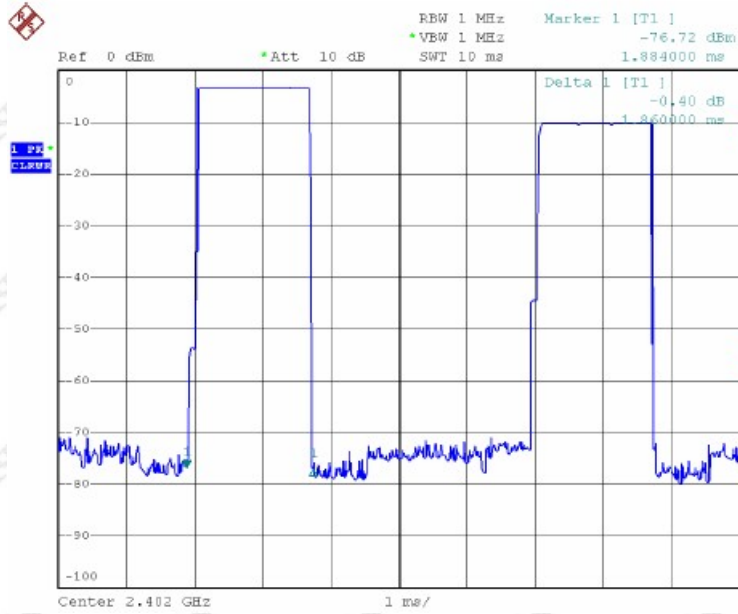
CH00-DH1



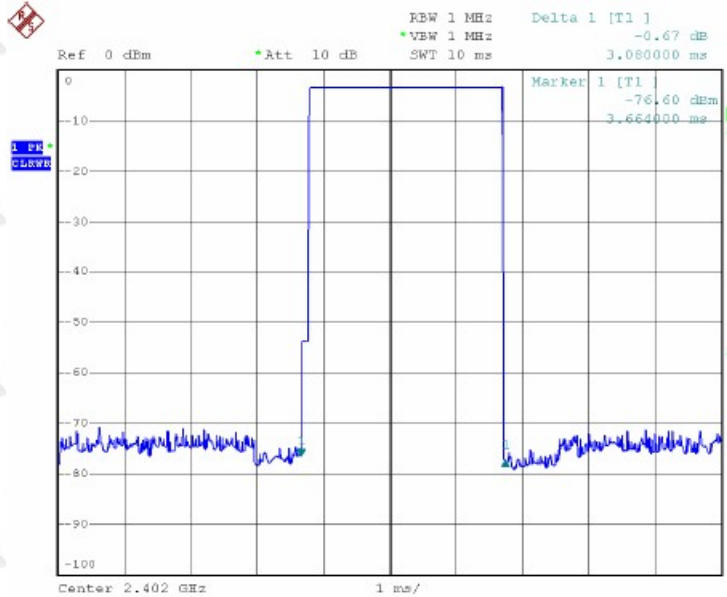
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CH00-DH3



CH00-DH5



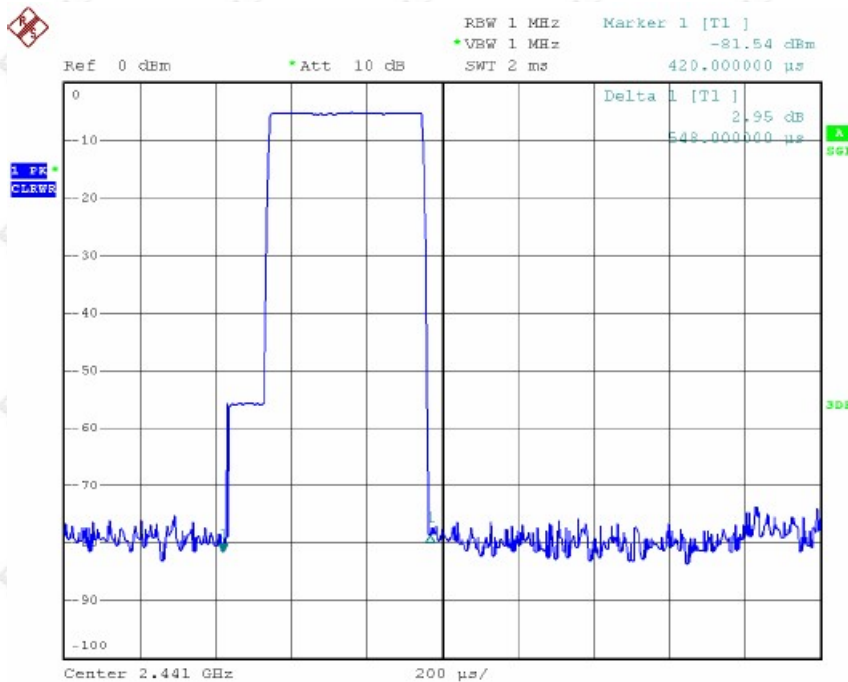
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EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	CH39-DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441MHz	0.548	0.175	≤0.400
DH3	2441MHz	1.840	0.294	≤0.400
DH5	2441MHz	3.120	0.333	≤0.400

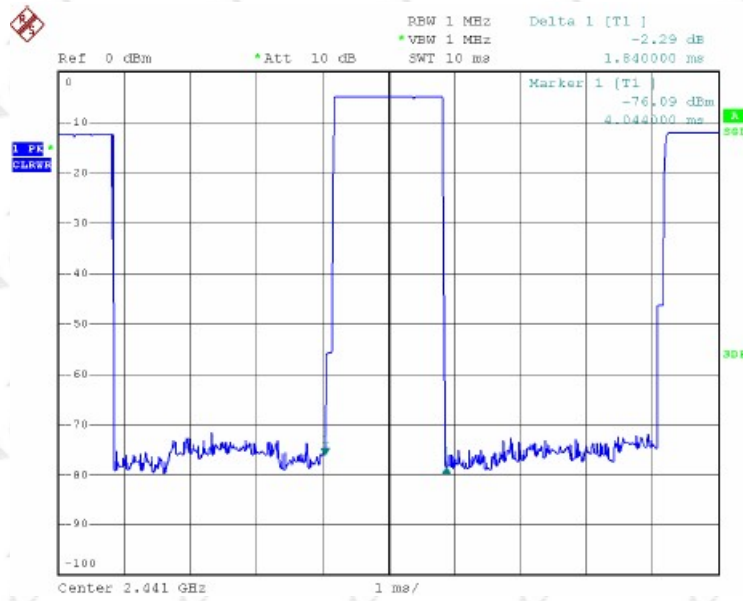
CH39-DH1



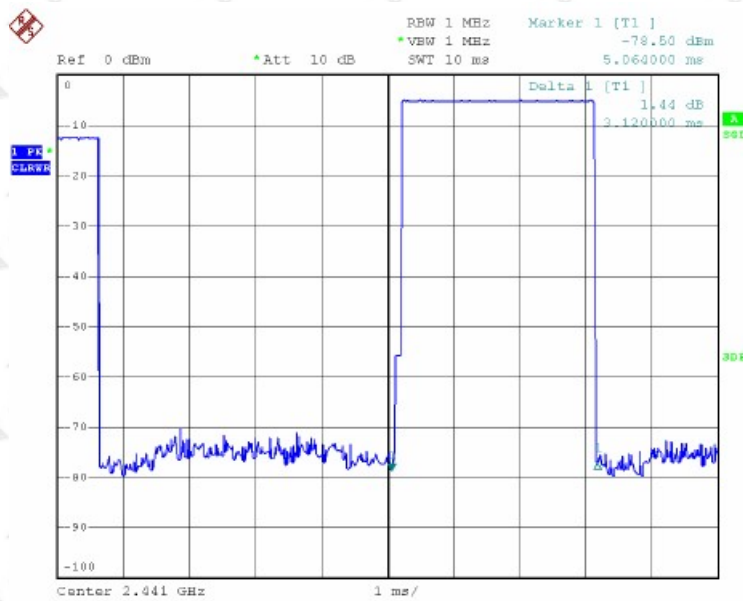
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CH39-DH3



CH39-DH5



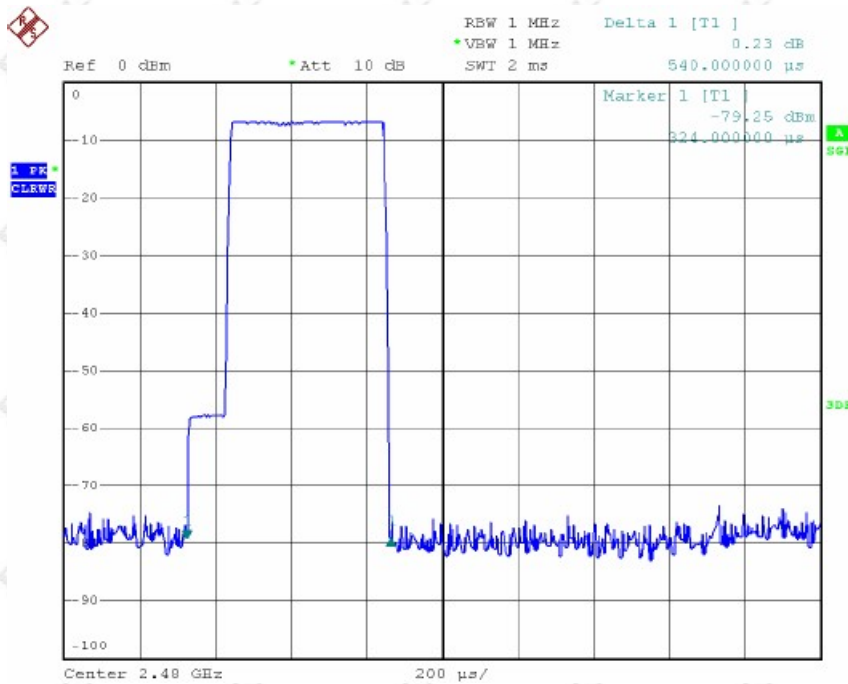
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by ENC, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at <http://www.enc-lab.com>.



EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	CH78-DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2480MHz	0.540	0.173	≤0.400
DH3	2480MHz	1.880	0.301	≤0.400
DH5	2480MHz	3.080	0.329	≤0.400

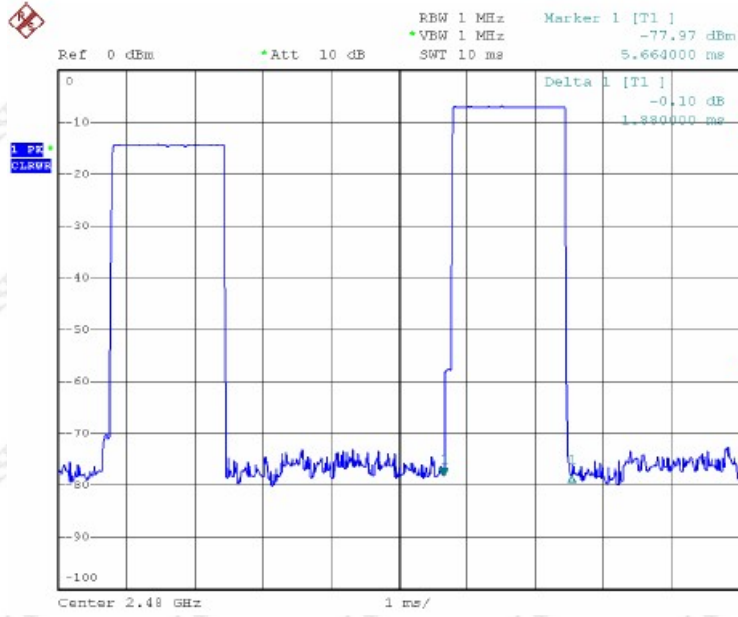
CH78-DH1



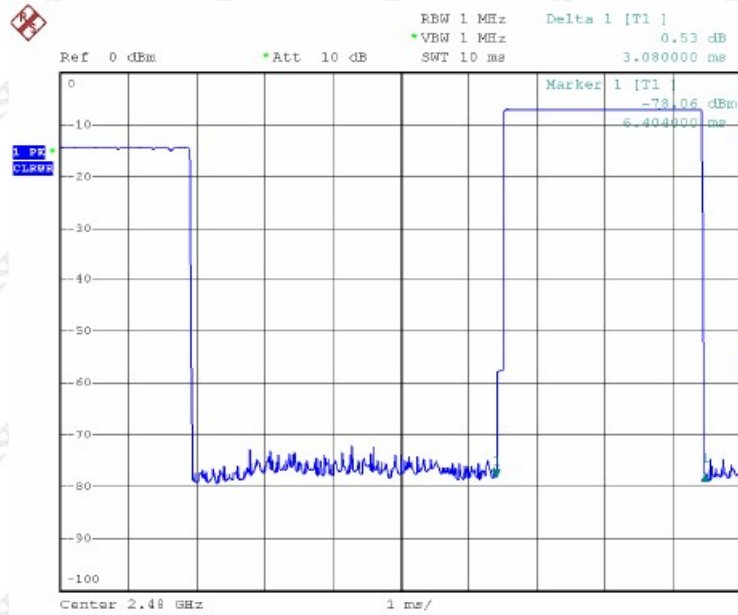
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CH78-DH3



CH78-DH5



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7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	118736	05/28/2011

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector Peak Trace	Max Hold
Sweep Time	Auto

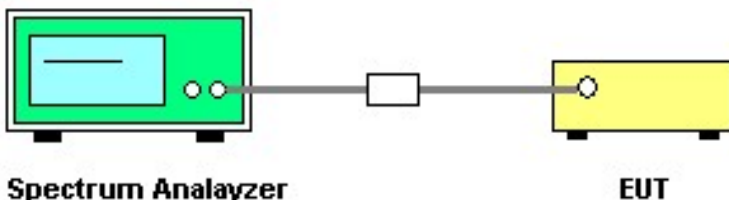
7.1.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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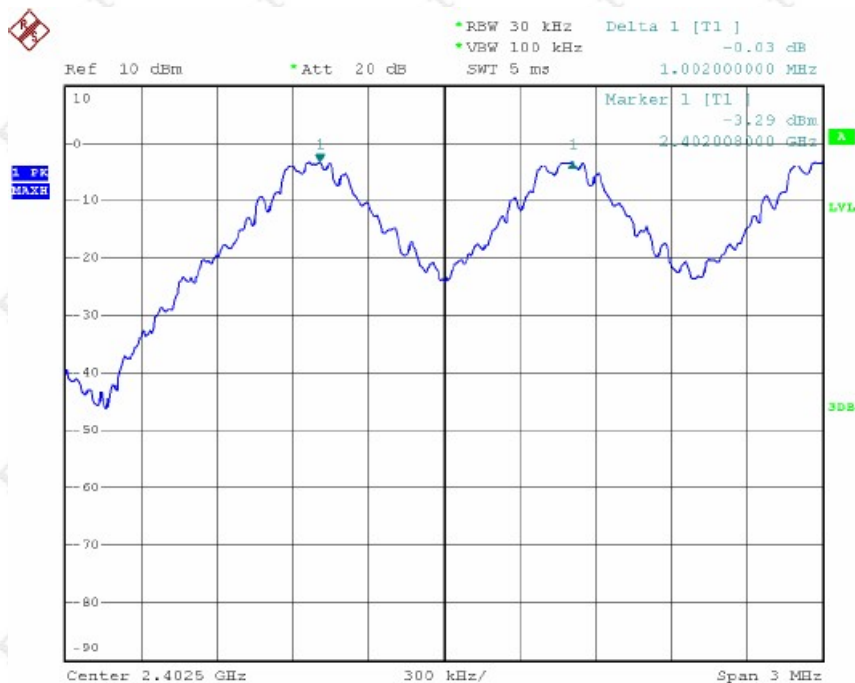
7.1.6 TEST RESULTS

EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	CH00 / CH39 /CH78-1Mbps		

Frequency	Ch. Separation (kHz)	20d Bandwidth B (kHz)	Result
2402MHz	1000.0	1002.0	Complies
2441MHz	1000.0	1002.0	Complies
2480MHz	1000.0	1002.0	Complies

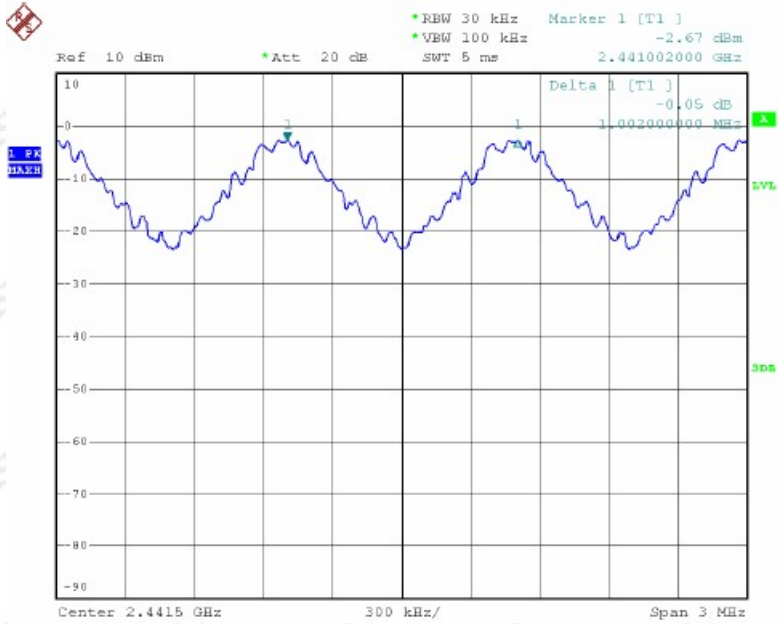
Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth

CH00 -1Mbps

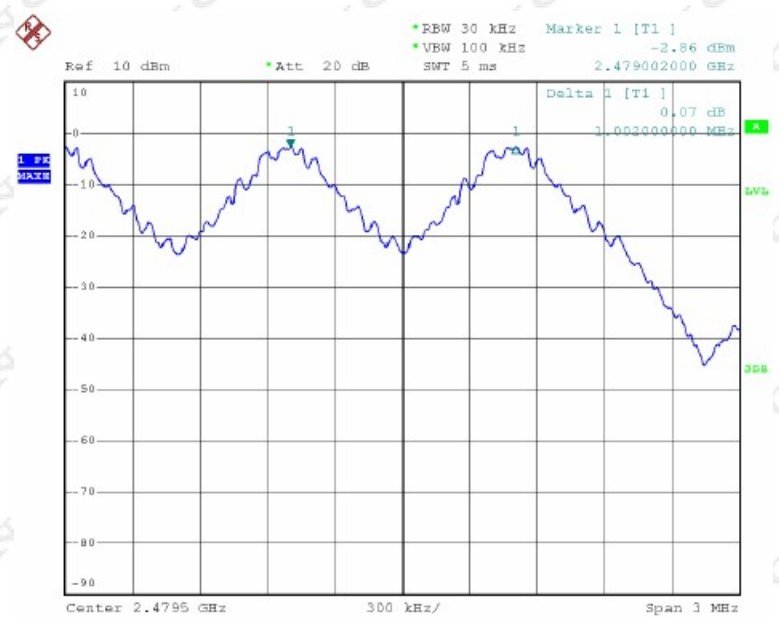


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CH39 -1Mbps



CH78 -1Mbps



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8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(2)	Bandwidth	≤ 1 MHz (20dB bandwidth)	2400-2483.5	PASS

8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	118736	05/28/2011

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

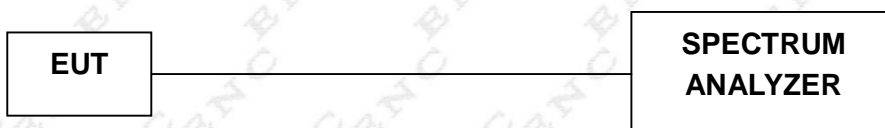
8.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 10KHz, VBW=100KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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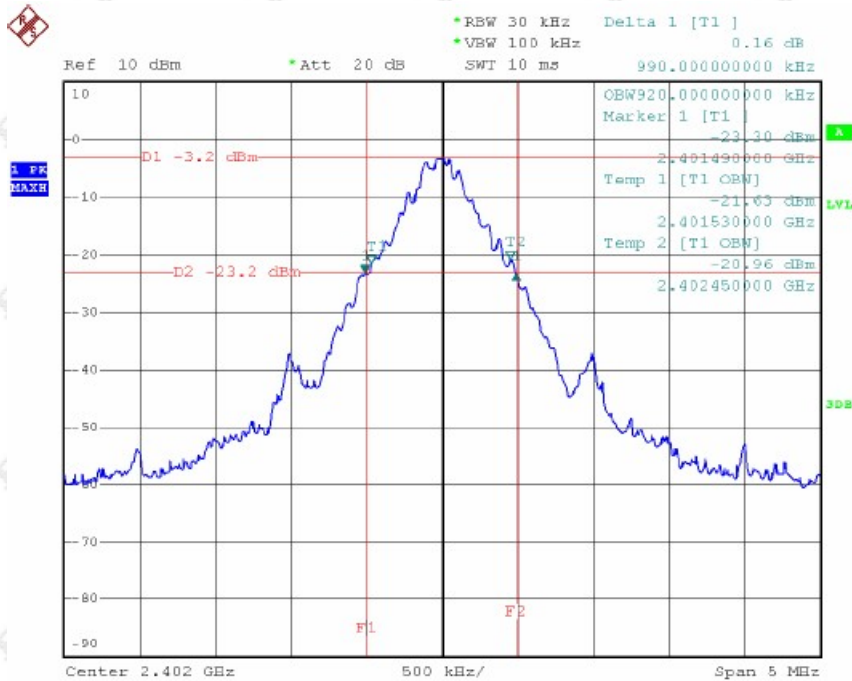
8.1.6 TEST RESULTS

EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	CH00 / CH39 /CH78-1Mbps		

Frequency	20dB Bandwidth (KHz)	Channel Separation (MHz)	Result
2402MHz	990.00	≤ 1MHz	PASS
2441MHz	980.00	≤ 1MHz	PASS
2480MHz	980.00	≤ 1MHz	PASS

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth

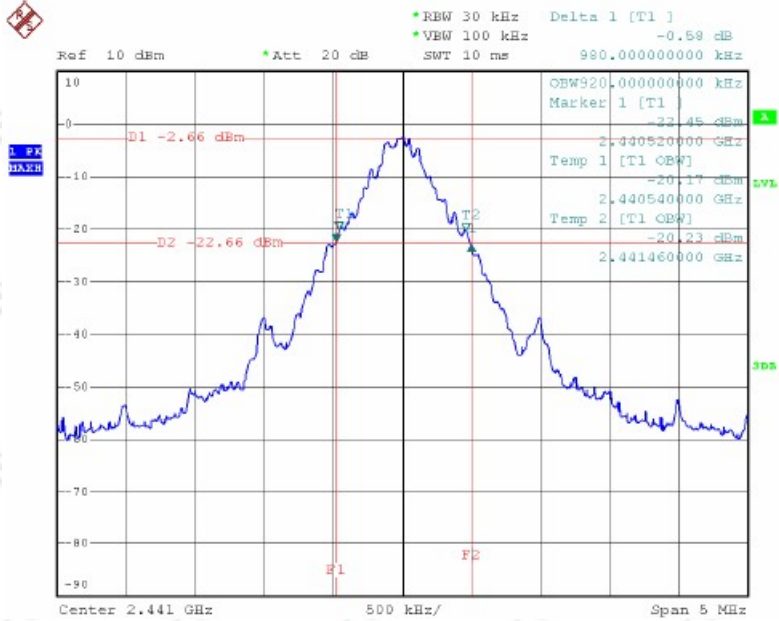
CH00 -1Mbps



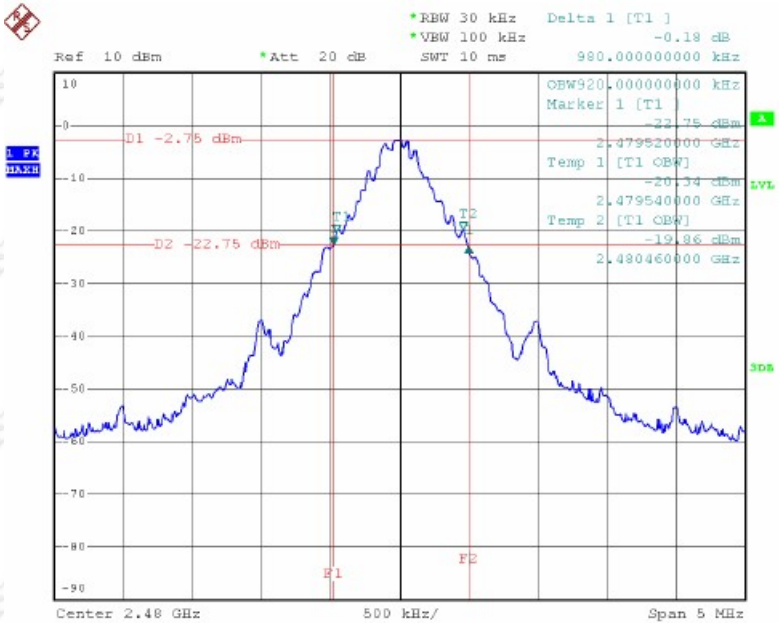
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CH39 -1Mbps



CH78 -1Mbps



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9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(1)	Peak Output Power	125mW or 20.97dBm	2400-2483.5	PASS

9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	118736	05/28/2011

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

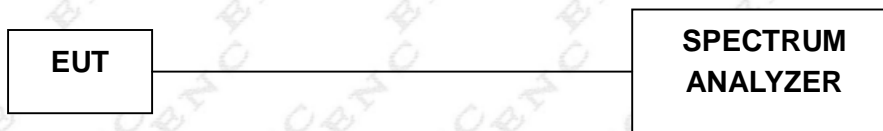
9.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 1MHz, VBW= 1MHz, Sweep time = Auto.

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP



9.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

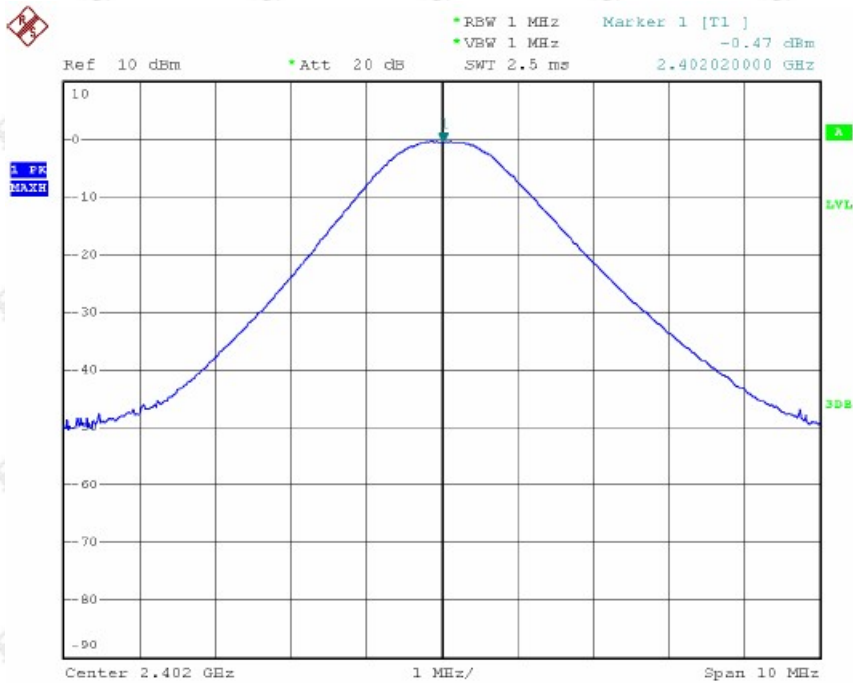
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by ENC, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at <http://www.enc-lab.com>.

9.1.6 TEST RESULTS

EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	CH00/ CH39 /CH78 -1Mbps		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (mW)
CH00	2402	-0.47	20.97	125
CH39	2441	0.11	20.97	125
CH78	2480	0.19	20.97	125

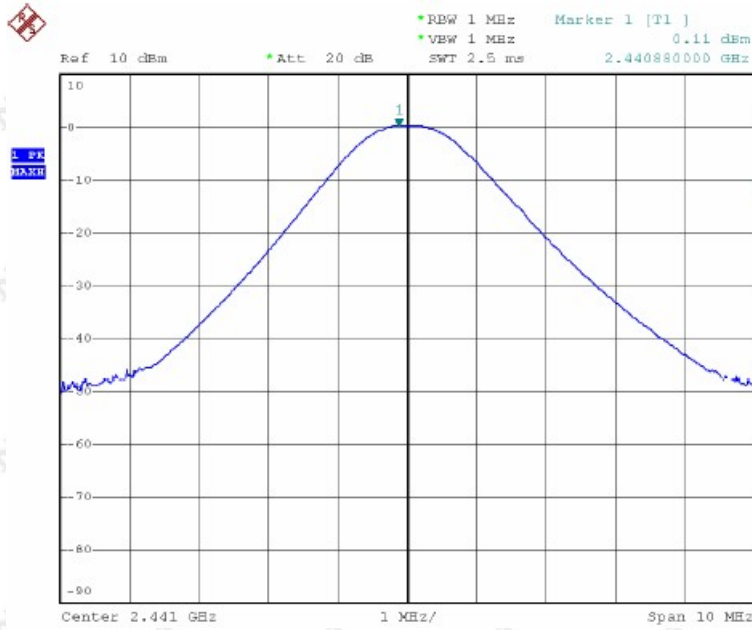
CH00 -1Mbps



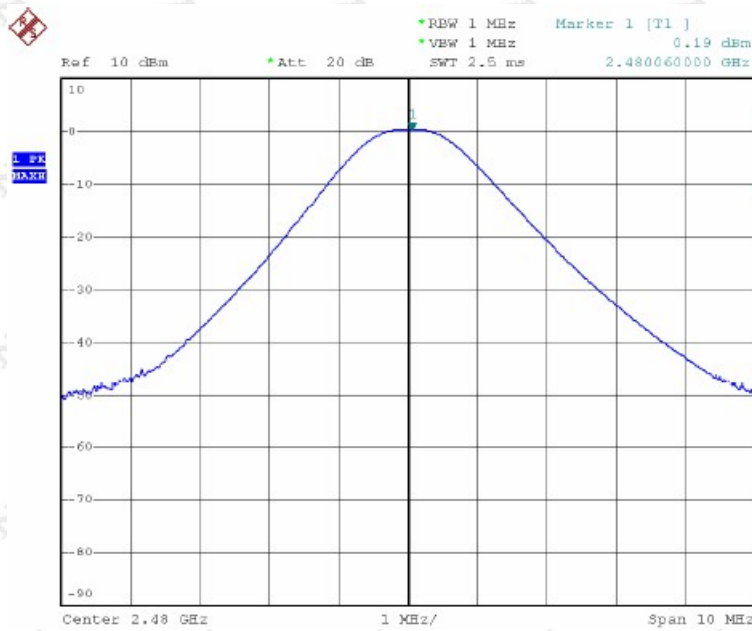
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CH39 -1Mbps



CH78 -1Mbps



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10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microrvolts/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

10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	118736	05/28/2011

Remark: " N/A" denotes No Model Name , Serial No. or No Calibration specified.

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100 KHz /100 KHz for Peak

10.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

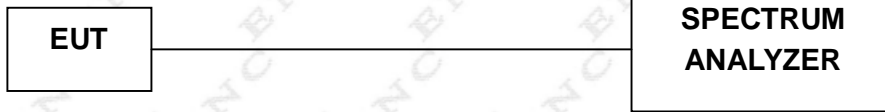
10.1.3 DEVIATION FROM STANDARD

No deviation.

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10.1.4 TEST SETUP



10.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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10.1.6 TEST RESULTS

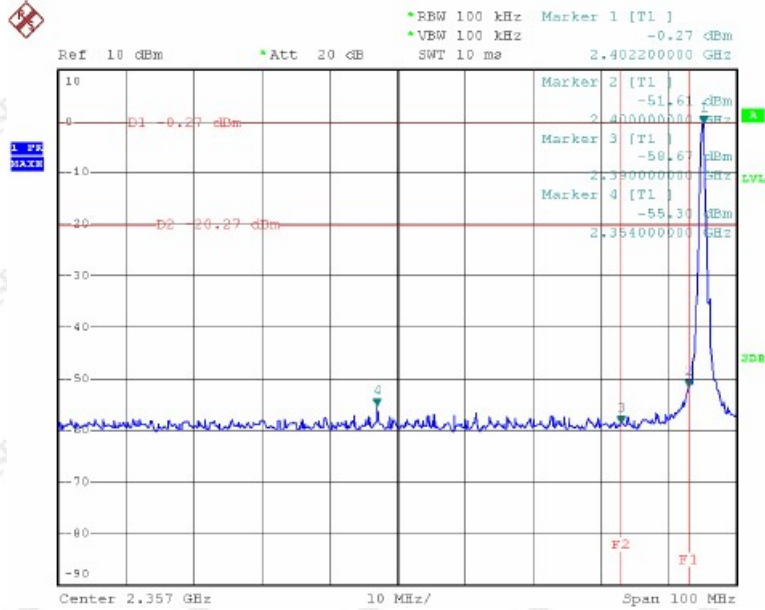
EUT:	Bluetooth Headset	Model Name :	LW12
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage :	DC 3.7V
Test Mode:	CH00 / CH78-1Mbps		

The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2354.00	-55.30	2483.50	-56.12
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.			

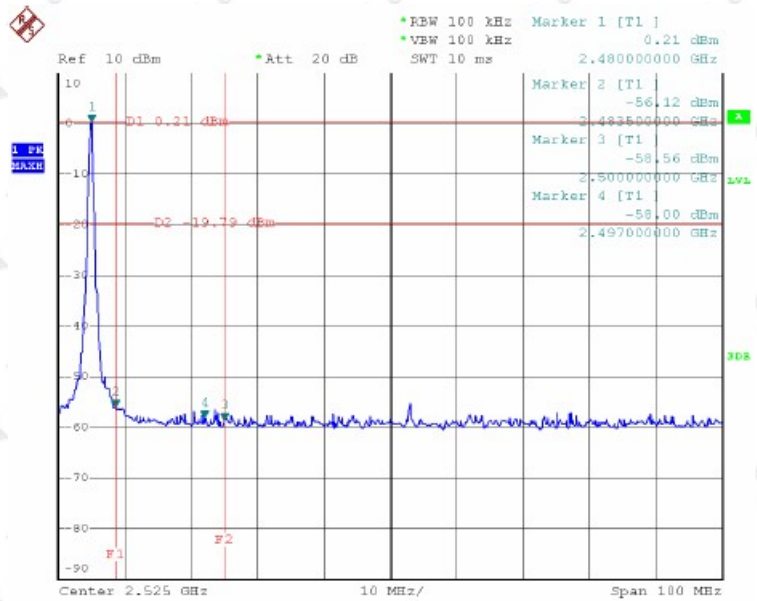
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CH00 (Lower) -1Mbps



CH 78 (Upper) -1Mbps



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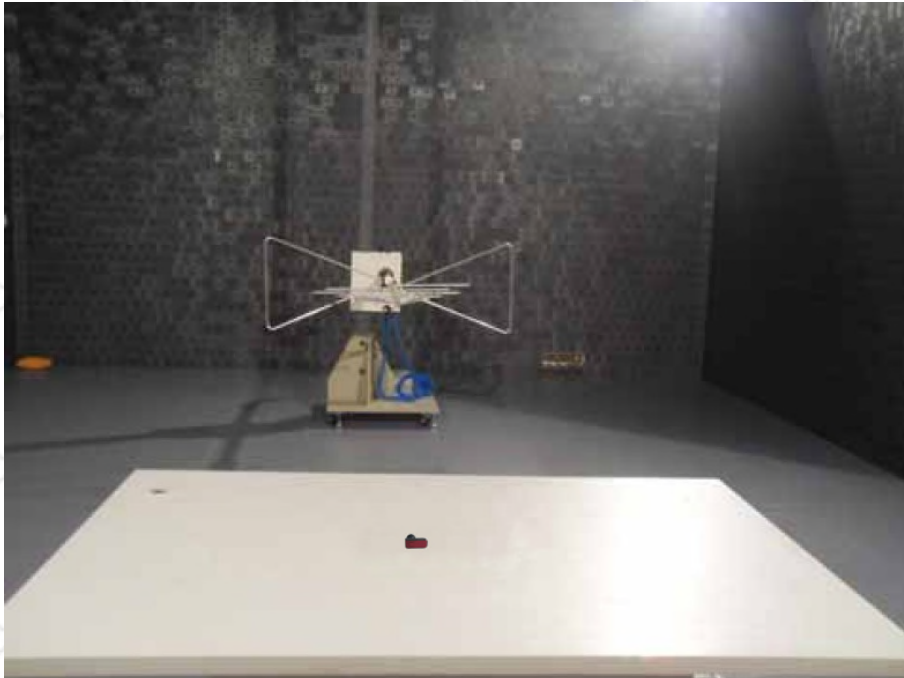


11 . PHOTOGRAPHS OF TEST SETUP

Photographs-Conducted Emission Test Setup



Photographs-Radiated Emission Test Setup



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RADIATED EMISSION TEST SETUP



----END OF REPORT----

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