

APPLICATION CERTIFICATION

On Behalf of
Strategic Sprots Limited

Bluetooth helmet headset
Model No.: KB91S

FCC ID: QOK-KB91S

Prepared for : Strategic Sports Limited
Address : Liuhuang 3rd Industrial Zone, Chashan Town, Dongguan
City, Guangdong Province, China
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Report Number : ATE20122289
Date of Test : Sep 28-Oct 22, 2012
Date of Report : Oct 22, 2012

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Test Report Certification

Applicant : Strategic Sports Limited
Manufacturer : Strategic Sports Limited
EUT Description : Bluetooth helmet headset
(A) MODEL NO.: KB91S
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: DC 3.7V (Li-polymer battery) & AC
120V/60Hz (Adapter input)

Measurement Procedure Used:

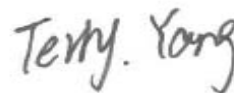
FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4: 2009
ANSI C63.10: 2009

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : Sep 28-Oct 22, 2012

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Bluetooth helmet headset
Model Number	:	KB91S
Frequency Band	:	2402MHz-2480MHz
Number of Channels	:	79
Antenna Gain	:	2.5dBi
Power Supply	:	DC 3.7V (Li-polymer battery) & AC 120V/60Hz (Adapter input)
Adapter	:	Model: JKY36-SP0500500 Input: AC 100-240V 50/60Hz 150mA Max Output: 5V 500mA
Applicant	:	Strategic Sports Limited
Address	:	Liuhuang 3rd Industrial Zone, Chashan Town, Dongguan City, Guangdong Province, China
Manufacturer	:	Strategic Sports Limited
Address	:	Liuhuang 3rd Industrial Zone, Chashan Town, Dongguan City, Guangdong Province, China
Date of sample received	:	Sep 28, 2012
Date of Test	:	Sep 28-Oct 22, 2012

1.2. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.3. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 7, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 7, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 7, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 7, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 7, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 7, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 7, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 7, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 7, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 7, 2012	Jan. 7, 2013

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: Transmitting mode

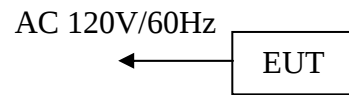
Low Channel: 2402MHz

Middle Channel: 2441MHz

High Channel: 2480MHz

Hopping

3.2.Configuration and peripherals



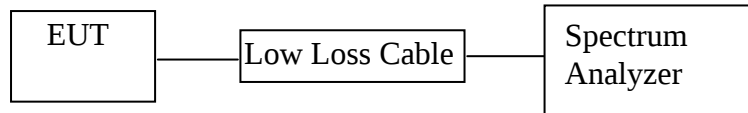
(EUT: Bluetooth helmet headset)

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission Test	Compliant
Section 15.247(a)(1)	20dB Bandwidth Test	Compliant
Section 15.247(a)(1)	Carrier Frequency Separation Test	Compliant
Section 15.247(a)(1)(iii)	Number Of Hopping Frequency Test	Compliant
Section 15.247(a)(1)(iii)	Dwell Time Test	Compliant
Section 15.247(b)(1)	Maximum Peak Output Power Test	Compliant
Section 15.247(d) Section 15.209	Radiated Emission Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 20DB BANDWIDTH TEST

5.1. Block Diagram of Test Setup



(EUT: Bluetooth helmet headset)

5.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1. Bluetooth helmet headset (EUT)

Model Number	:	KB91S
Serial Number	:	N/A
Manufacturer	:	Strategic Sports Limited

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

5.5. Test Procedure

5.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

5.5.2. Set RBW of spectrum analyzer to 30 kHz and VBW to 100 kHz.

5.5.3. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.6. Test Result

PASS.

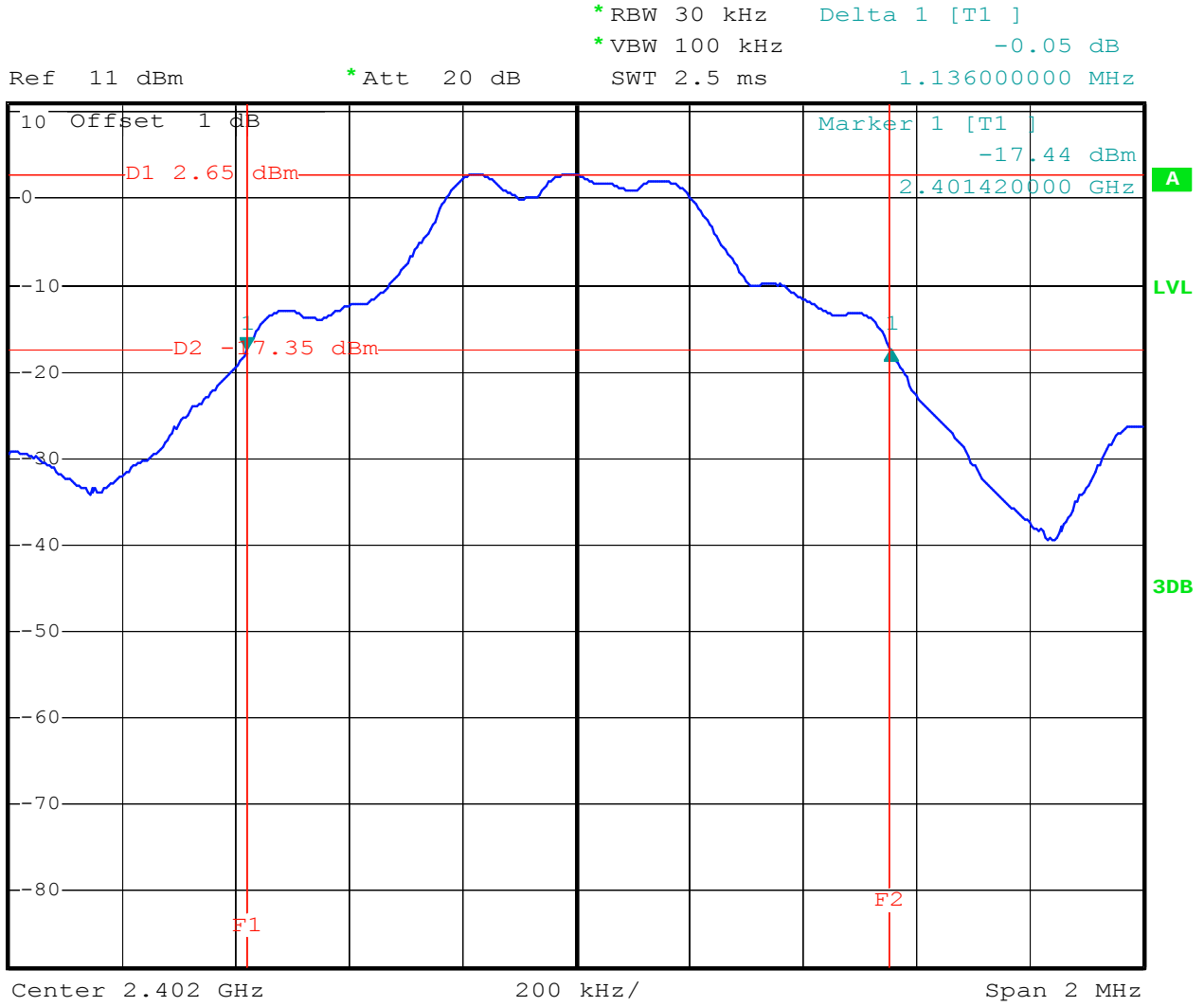
Date of Test:	<u>Oct 20, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>Bluetooth helmet headset</u>	Humidity:	<u>50%</u>
Model No.:	<u>KB91S</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Alen</u>

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
Low	2402	1.136	---
Middle	2441	1.132	---
High	2480	1.132	---

The spectrum analyzer plots are attached as below.



1 PK
MAXH

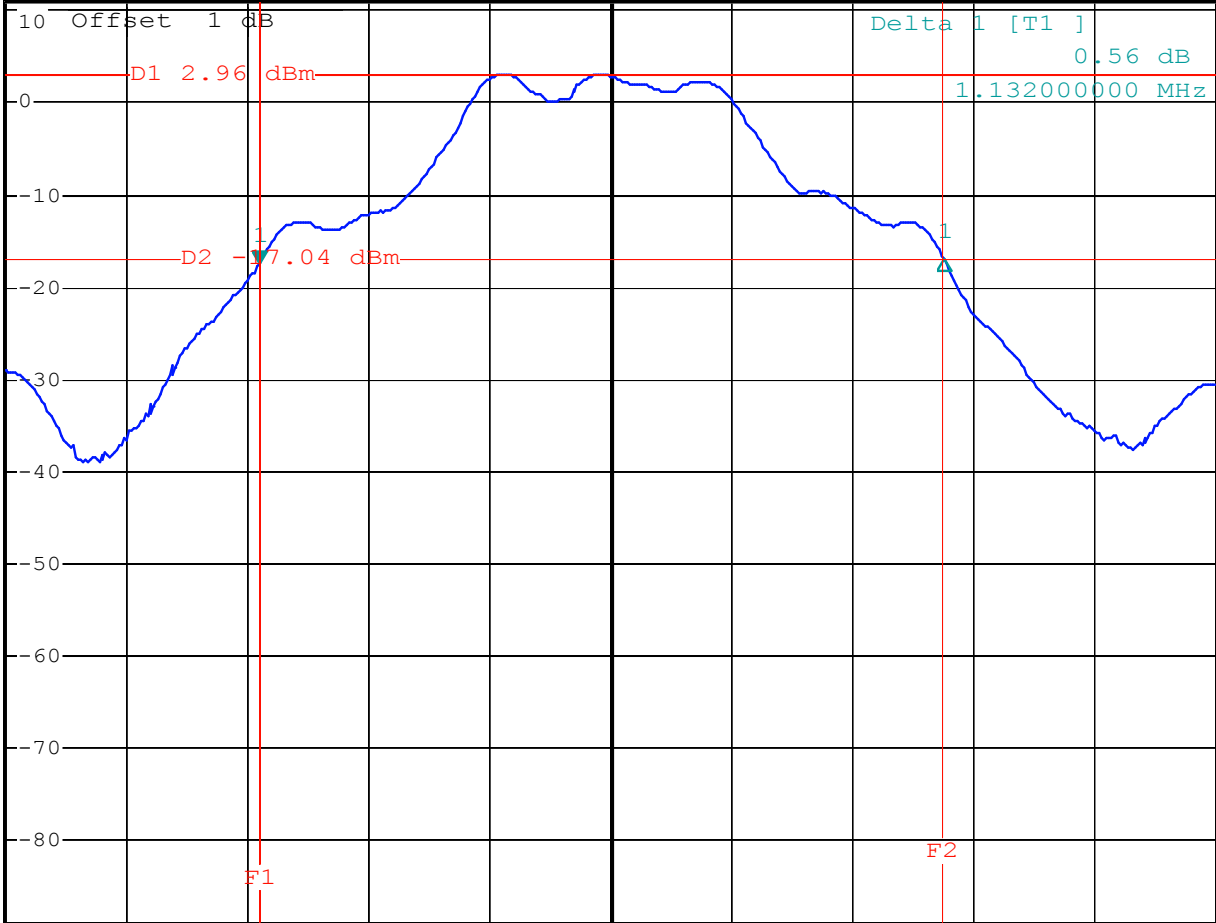


Date: 20.OCT.2012 10:34:19



* RBW 30 kHz Marker 1 [T1]
* VBW 100 kHz -17.46 dBm
Ref 11 dBm * Att 20 dB SWT 2.5 ms 2.440420000 GHz

1 PK
MAXH



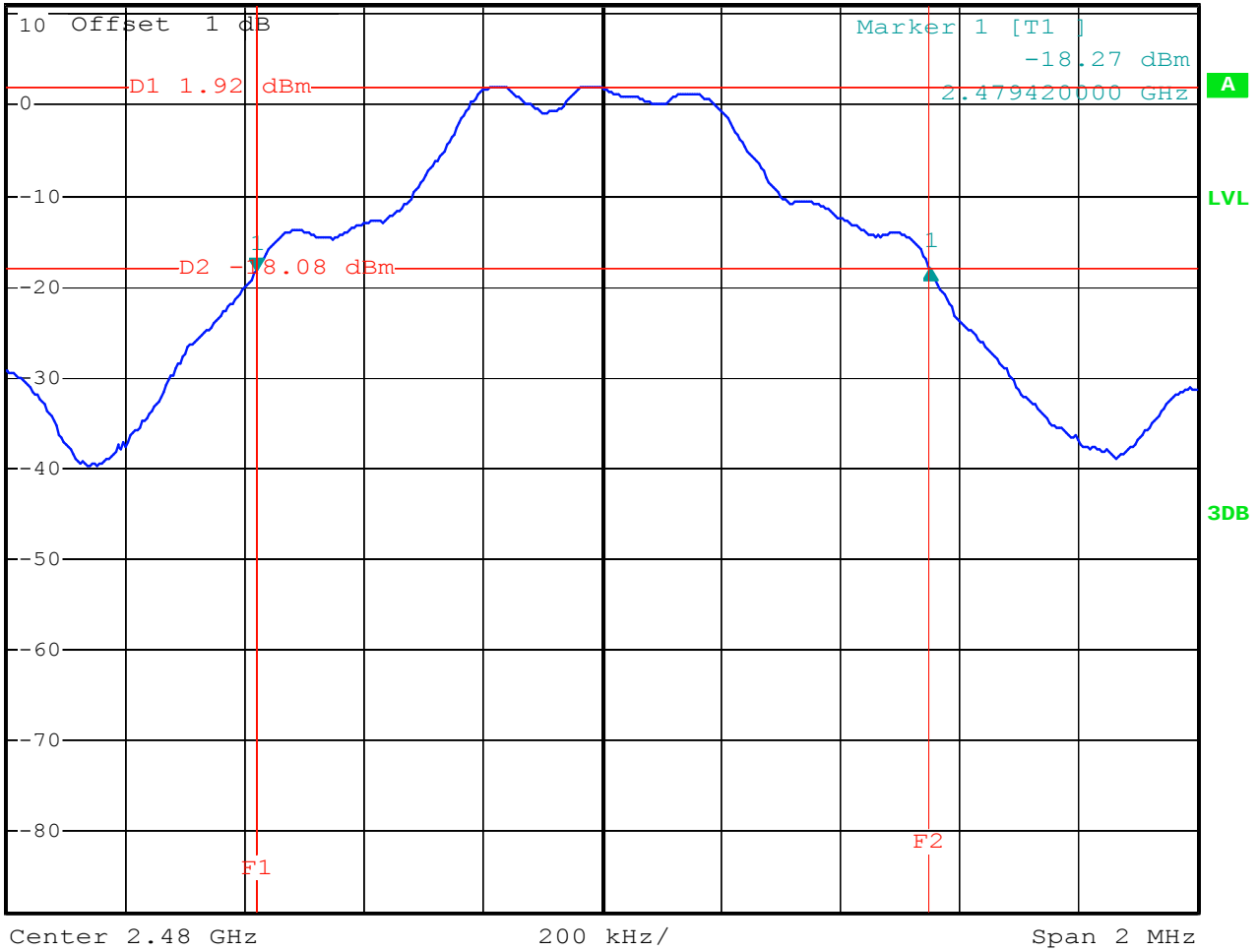
Center 2.441 GHz 200 kHz/ Span 2 MHz

Date: 20.OCT.2012 10:37:41



1 PK
MAXH

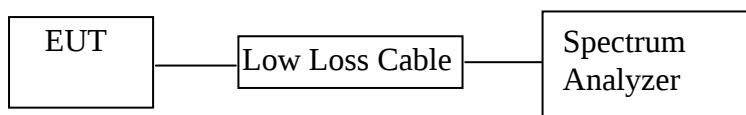
Ref 11 dBm * Att 20 dB * RBW 30 kHz Delta 1 [T1]
* VBW 100 kHz 0.22 dB
SWT 2.5 ms 1.132000000 MHz



Date: 20.OCT.2012 10:42:38

6. CARRIER FREQUENCY SEPARATION TEST

6.1. Block Diagram of Test Setup



(EUT: Bluetooth helmet headset)

6.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

6.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1. Bluetooth helmet headset (EUT)

Model Number	:	KB91S
Serial Number	:	N/A
Manufacturer	:	Strategic Sports Limited

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

6.5. Test Procedure

6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz. Adjust Span to 3 MHz.

6.5.3. Set the adjacent channel of the EUT maxhold another trace.

6.5.4. Measurement the channel separation

6.6. Test Result

PASS.

Date of Test:	Oct 20, 2012	Temperature:	25°C
EUT:	Bluetooth helmet headset	Humidity:	50%
Model No.:	KB91S	Power Supply:	AC 120V/60Hz
Test Mode:	TX	Test Engineer:	Alen

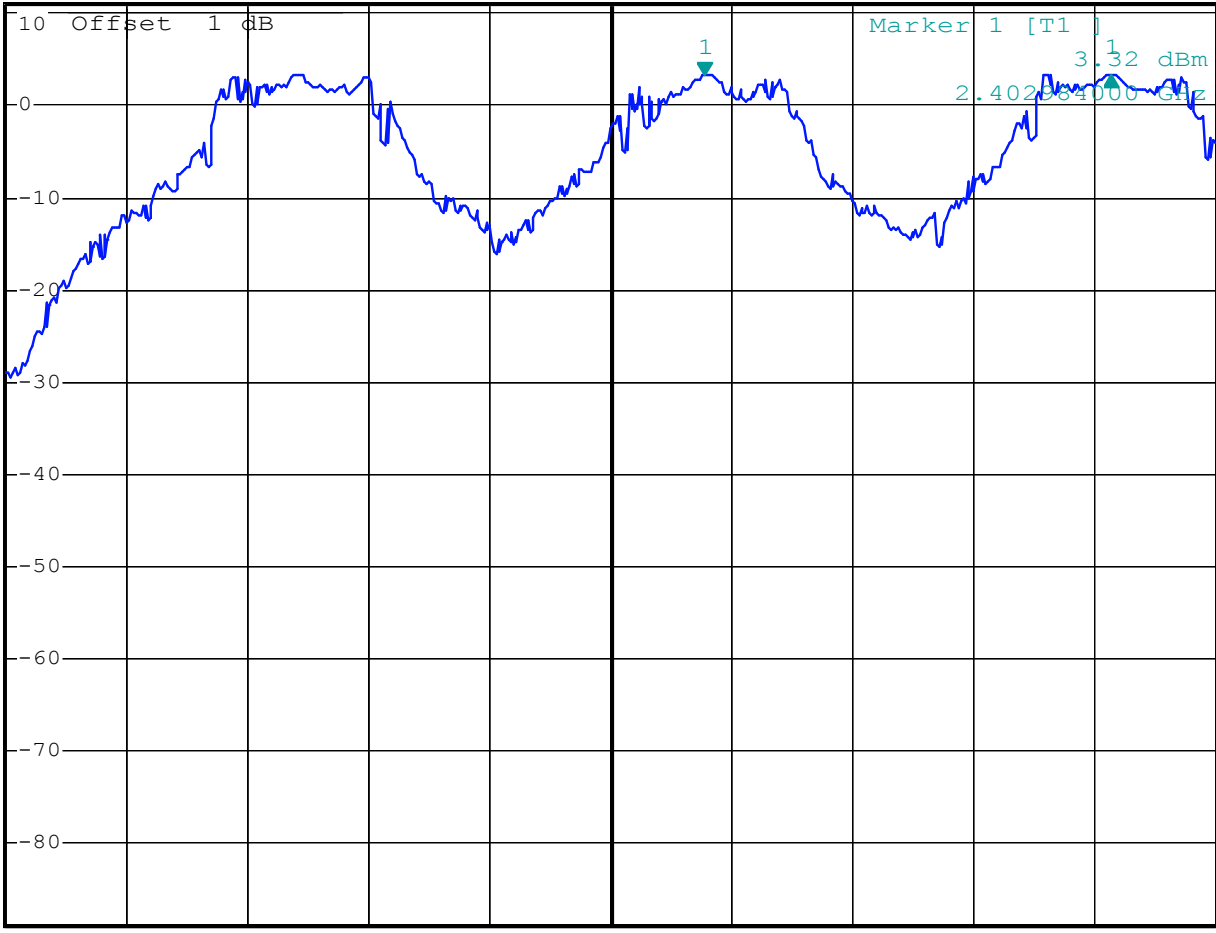
Channel	Channel Frequency (MHz)	Channel separation (MHz)	Limit (MHz)
Low	2402	1.008	0.7573
Middle	2441	1.008	0.7547
High	2480	1.032	0.7547

The spectrum analyzer plots are attached as below.



1 PK
MAXH

*RBW 100 kHz Delta 1 [T1]
*VBW 300 kHz -0.01 dB
Ref 11 dBm *Att 20 dB SWT 2.5 ms 1.008000000 MHz



Center 2.40275 GHz 300 kHz/ Span 3 MHz

A

LVL

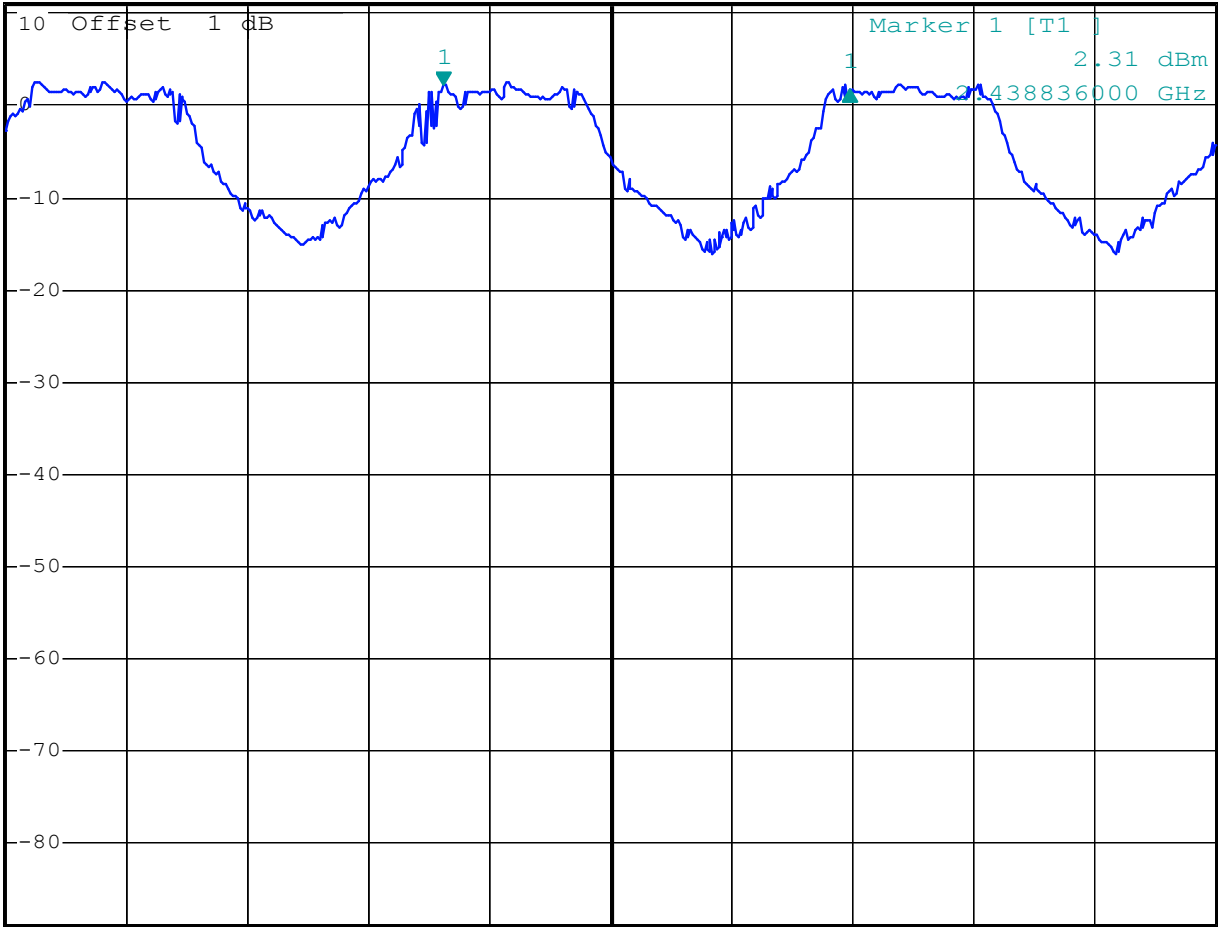
3DB

Date: 20.OCT.2012 11:27:34



1 PK
MAXH

*RBW 100 kHz Delta 1 [T1]
*VBW 300 kHz -0.71 dB
Ref 11 dBm *Att 20 dB SWT 2.5 ms 1.008000000 MHz



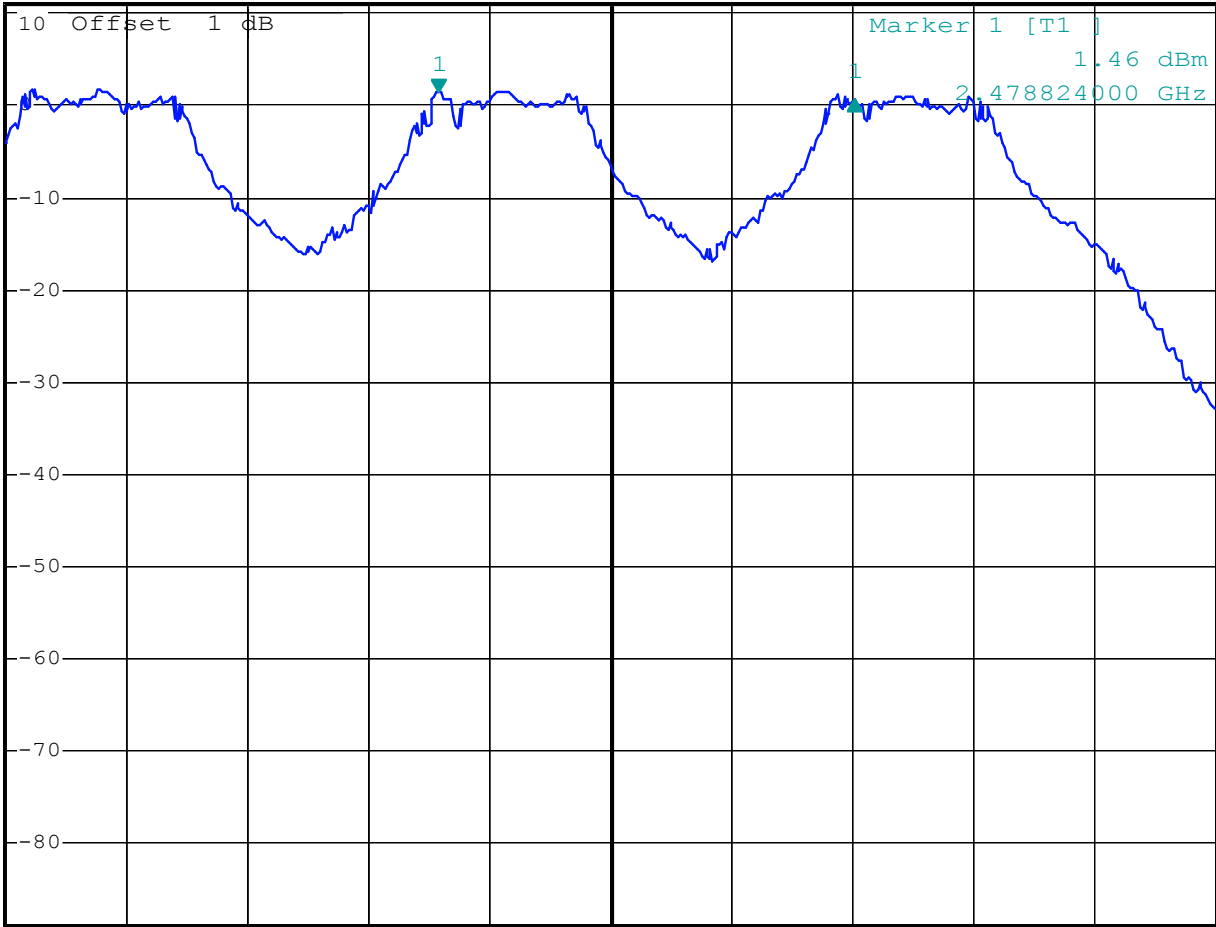
Center 2.43925 GHz 300 kHz/ Span 3 MHz

Date: 20.OCT.2012 11:24:16



1 PK
MAXH

* RBW 100 kHz Delta 1 [T1]
* VBW 300 kHz -0.79 dB
Ref 11 dBm * Att 20 dB SWT 2.5 ms 1.032000000 MHz

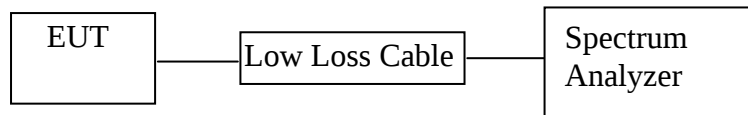


Center 2.47925 GHz 300 kHz/ Span 3 MHz

Date: 20.OCT.2012 11:21:05

7. NUMBER OF HOPPING FREQUENCY TEST

7.1. Block Diagram of Test Setup



(EUT: Bluetooth helmet headset)

7.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

7.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.3.1. Bluetooth helmet headset (EUT)

Model Number	:	KB91S
Serial Number	:	N/A
Manufacturer	:	Strategic Sports Limited

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX (Hopping on) modes measure it.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Set the spectrum analyzer as Span=83.5MHz, RBW=100 kHz, VBW=300 kHz.

7.5.3. Max hold, view and count how many channel in the band.

7.6. Test Result

PASS.

Date of Test:	<u>Oct 22, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>Bluetooth helmet headset</u>	Humidity:	<u>50%</u>
Model No.:	<u>KB91S</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>Hopping</u>	Test Engineer:	<u>Alen</u>

Total number of hopping channel	Measurement result (CH)	Limit (CH)
	79	>15

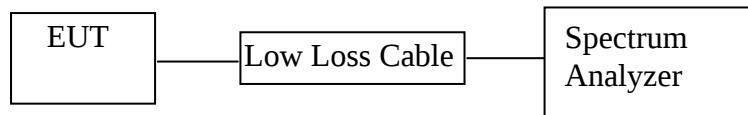
The spectrum analyzer plots are attached as below.



FCC ID: QOK-KB91S

8. DWELL TIME TEST

8.1. Block Diagram of Test Setup



(EUT: Bluetooth helmet headset)

8.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

8.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.3.1. Bluetooth helmet headset (EUT)

Model Number	:	KB91S
Serial Number	:	N/A
Manufacturer	:	Strategic Sports Limited

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

8.5. Test Procedure

- 8.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 8.5.2. Set center frequency of spectrum analyzer = operating frequency.
- 8.5.3. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Span=0Hz, Adjust Sweep=1s. Get the burst (in 1 sec.).
- 8.5.4. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span=0Hz, Adjust Sweep=2ms. Get the pulse time.
- 8.5.5. Repeat above procedures until all frequency measured were complete.

8.6. Test Result

PASS.

Date of Test:	<u>Oct 20, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>Bluetooth helmet headset</u>	Humidity:	<u>50%</u>
Model No.:	<u>KB91S</u>	Power Supply:	<u>AC 120V</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Alen</u>

DH1:

A period transmit time = $0.4 \times 79 = 31.6$

Dwell time = pulse time $\times (1600/(2 \times 79)) \times 31.6$

Channel	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
Low	2402	0.537	171.840	400
Middle	2441	0.559	178.880	400
High	2480	0.537	171.840	400

DH3:

A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(4 \times 79)) \times 31.6$

Channel	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
Low	2402	1.806	288.960	400
Middle	2441	1.812	289.920	400
High	2480	1.812	289.920	400

DH5:

A period transmit time = $0.4 \times 79 = 31.6$ Dwell time = pulse time $\times (1600/(6 \times 79)) \times 31.6$

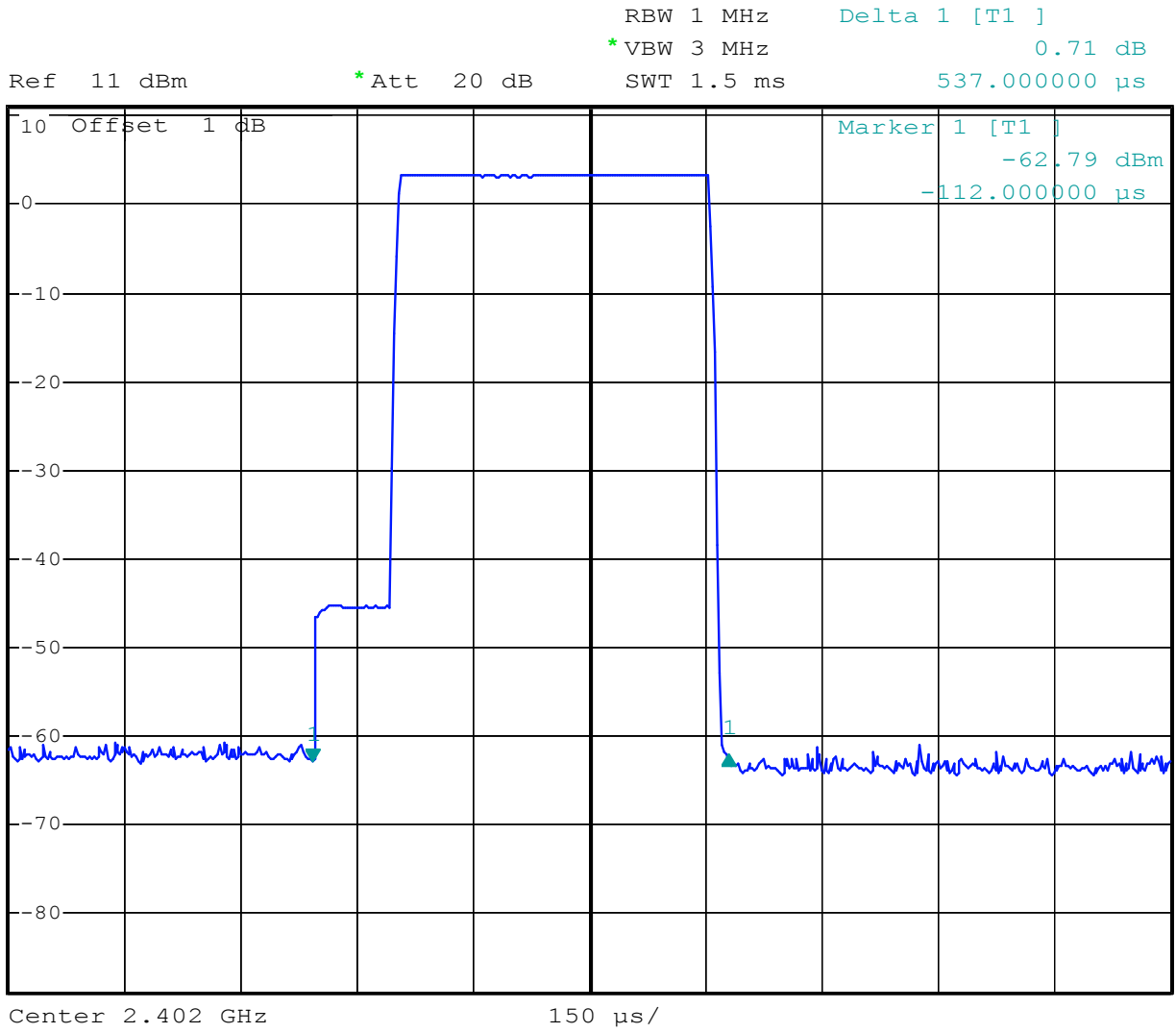
Channel	Channel Frequency (MHz)	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)
Low	2402	3.062	326.613	400
Middle	2441	3.062	326.613	400
High	2480	3.062	326.613	400

The spectrum analyzer plots are attached as below.

DH1:



1 PK
MAXH

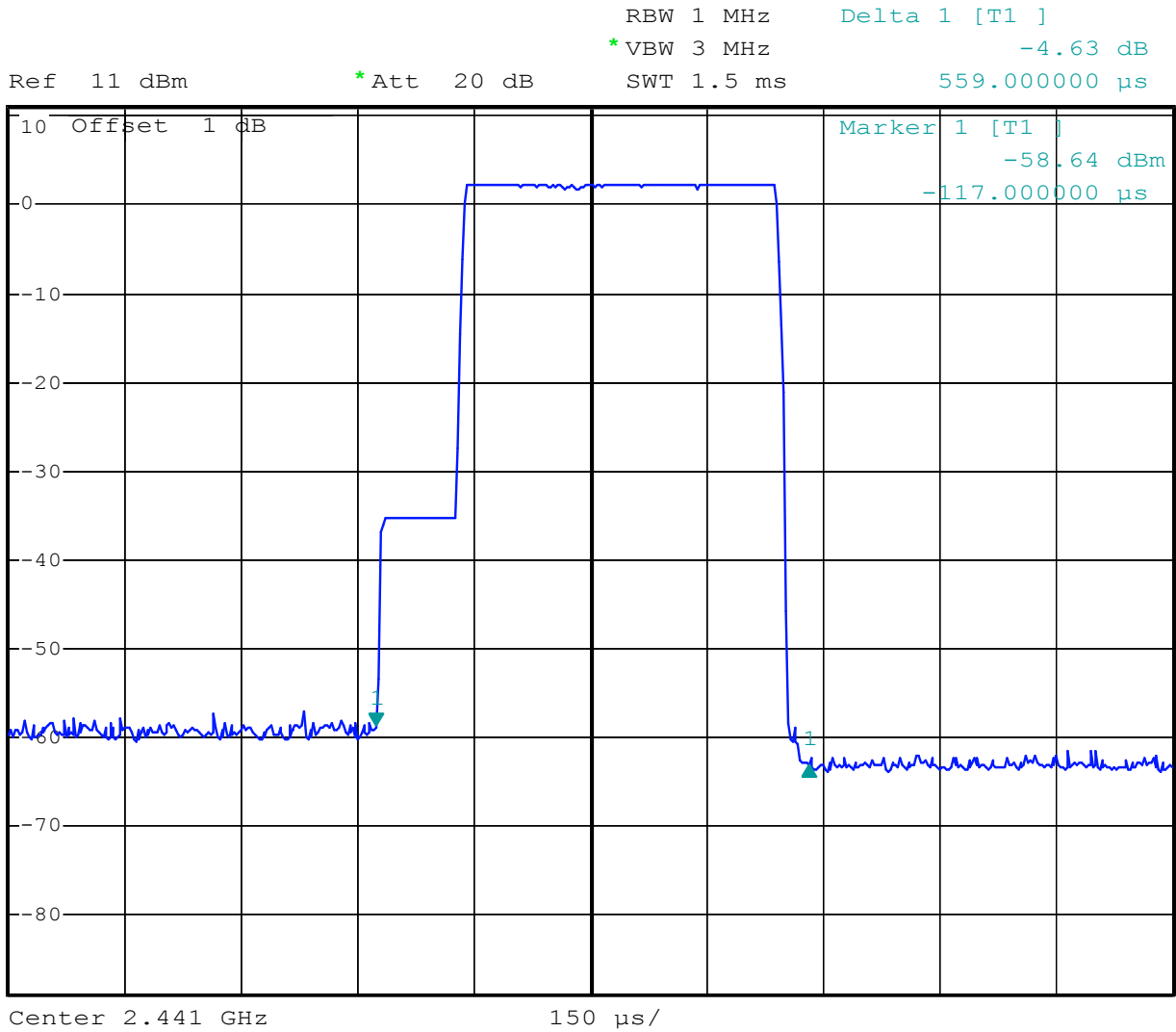


Date: 20.OCT.2012 11:32:33

DH1:



1 PK
MAXH



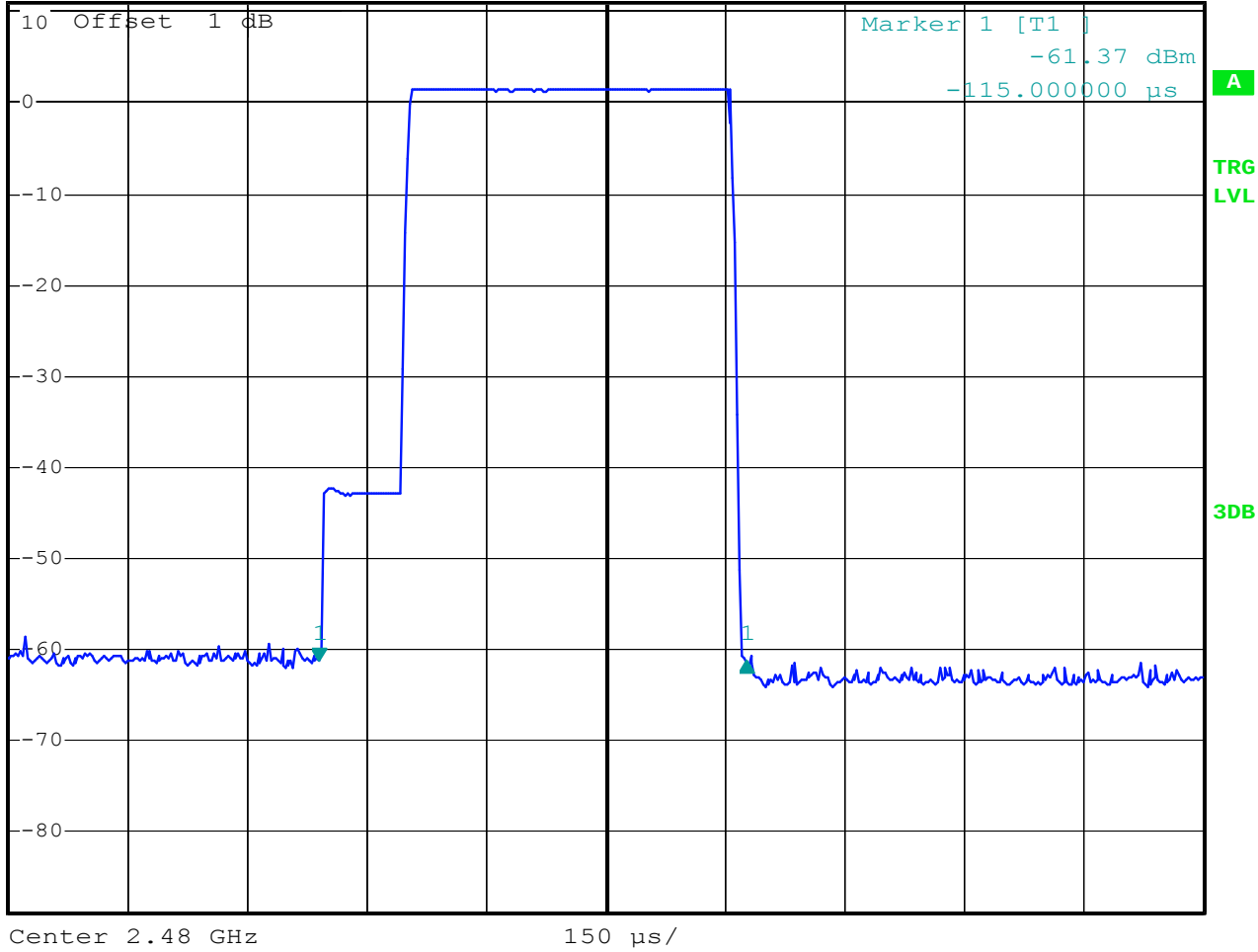
Date: 22.OCT.2012 15:44:05

DH1:



1 PK
MAXH

Ref 11 dBm *Att 20 dB RBW 1 MHz Delta 1 [T1]
*VBW 3 MHz 0.17 dB
SWT 1.5 ms 537.000000 μ s

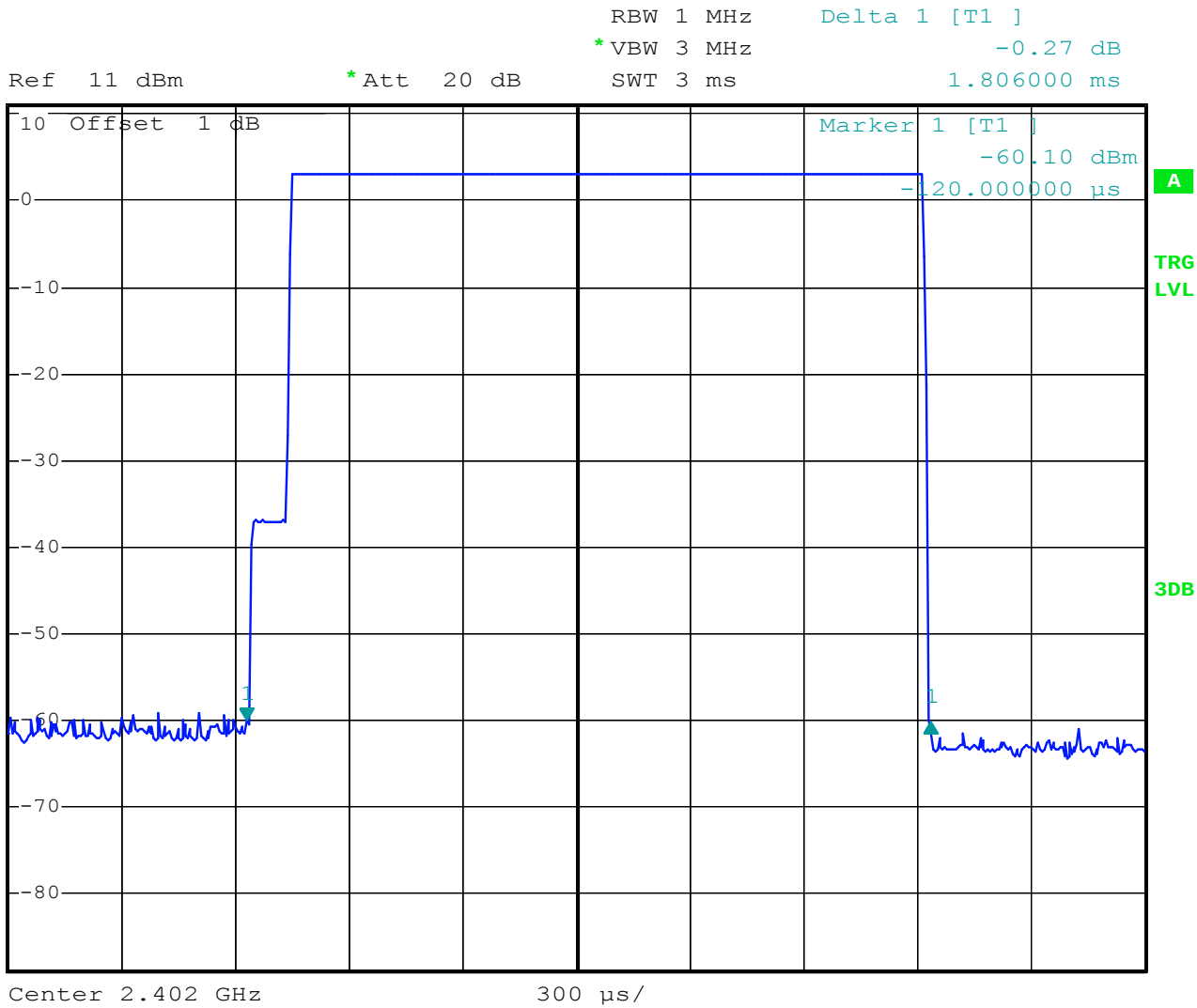


Date: 20.OCT.2012 11:33:53

DH3:



1 PK
MAXH



Date: 22.OCT.2012 15:41:28

DH3:

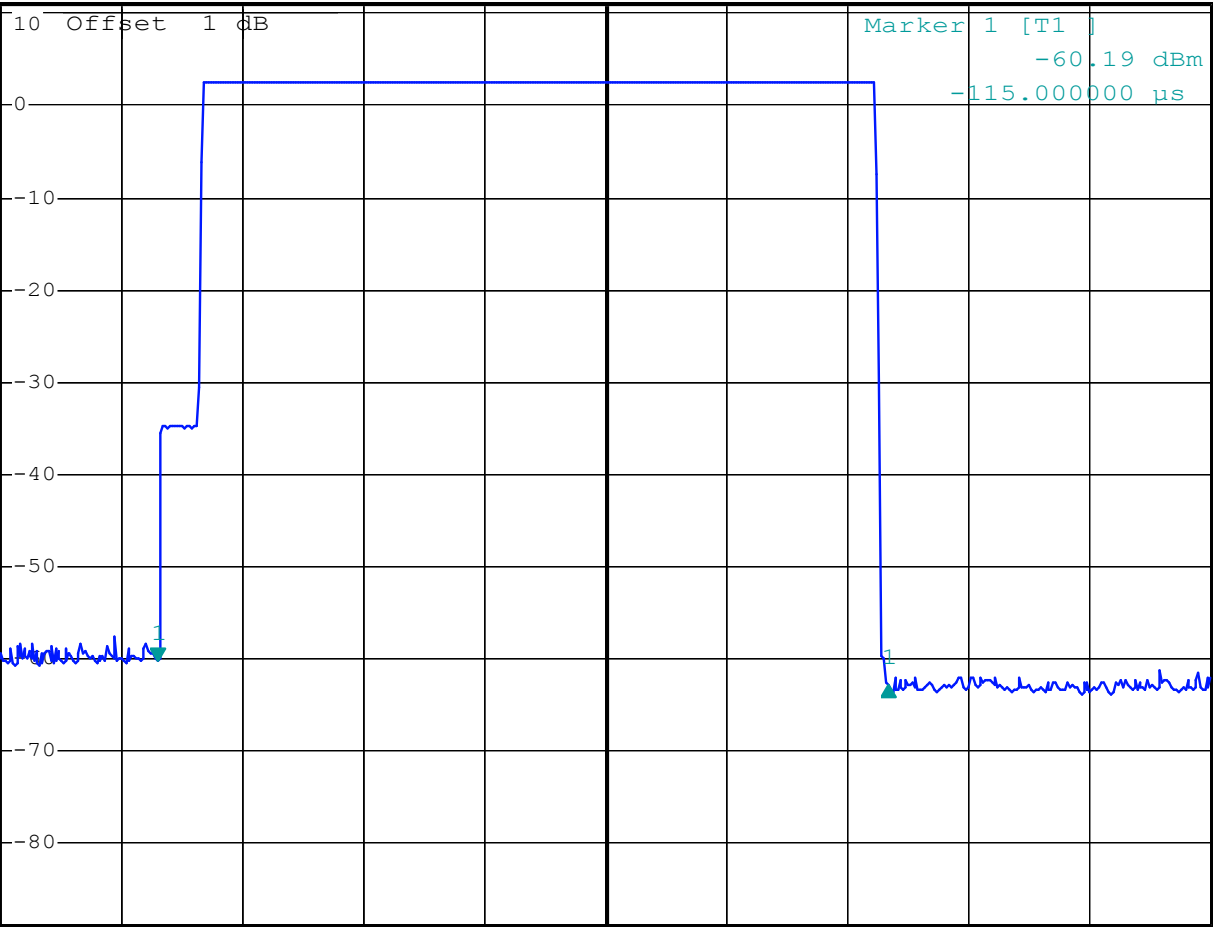


RBW 1 MHz Delta 1 [T1]
*VBW 3 MHz -2.57 dB
SWT 3 ms 1.812000 ms

Ref 11 dBm

*Att 20 dB

1 PK
MAXH



Date: 20.OCT.2012 11:36:44

DH3:

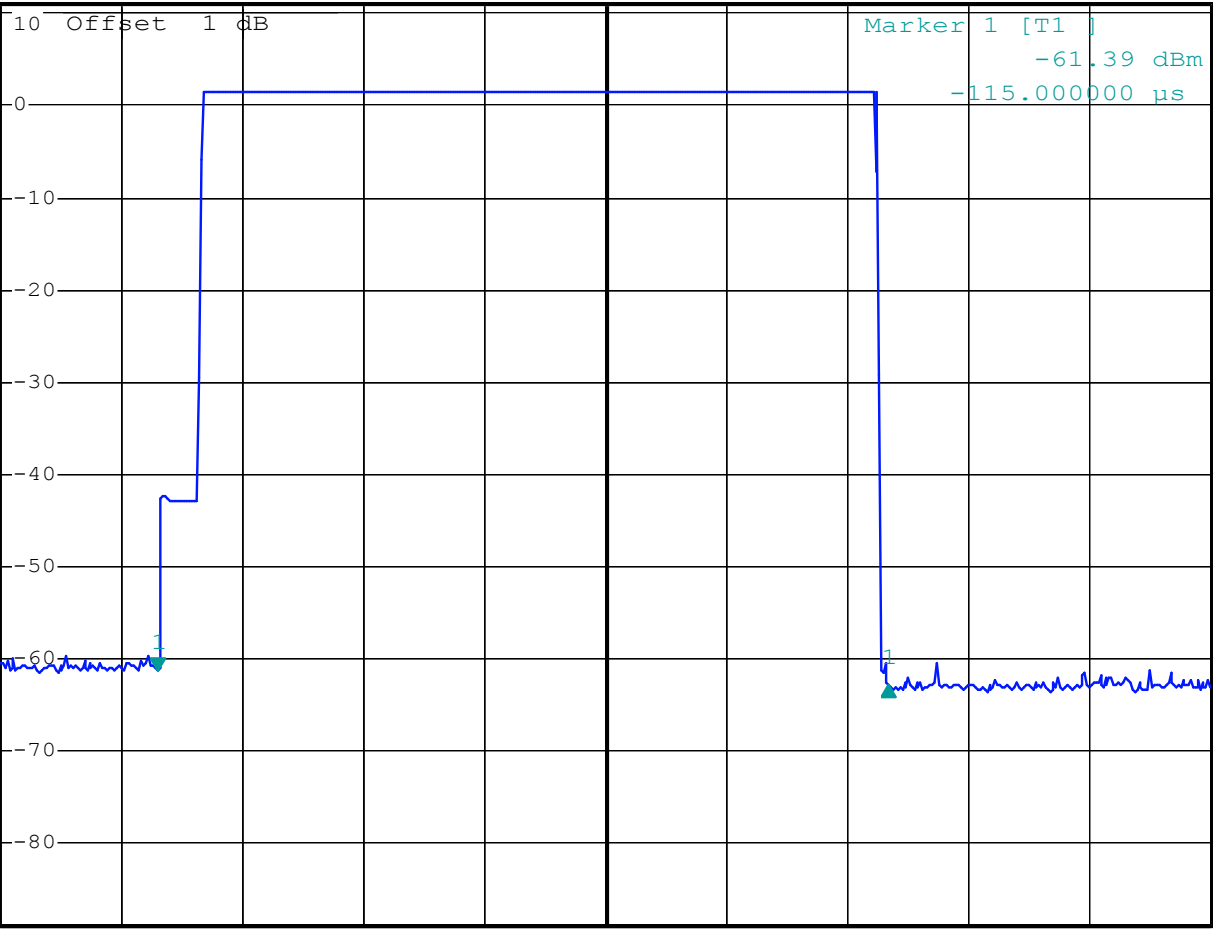


RBW 1 MHz Delta 1 [T1]
*VBW 3 MHz -1.47 dB
SWT 3 ms 1.812000 ms

Ref 11 dBm

*Att 20 dB

1 PK
MAXH



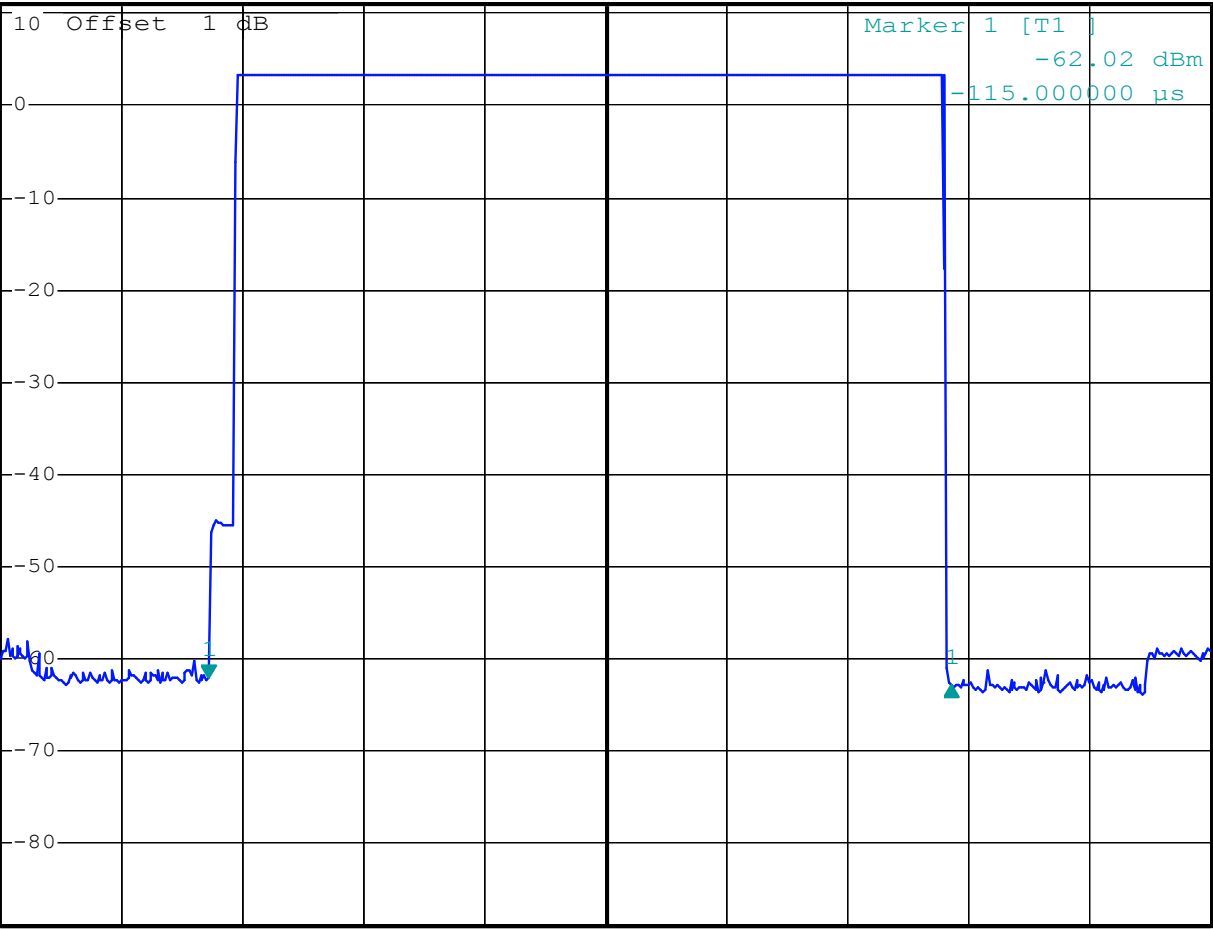
Date: 20.OCT.2012 11:35:58

DH5:



Ref 11 dBm *Att 20 dB RBW 1 MHz Delta 1 [T1]
*VBW 3 MHz -0.84 dB
SWT 5 ms 3.062000 ms

1 PK
MAXH

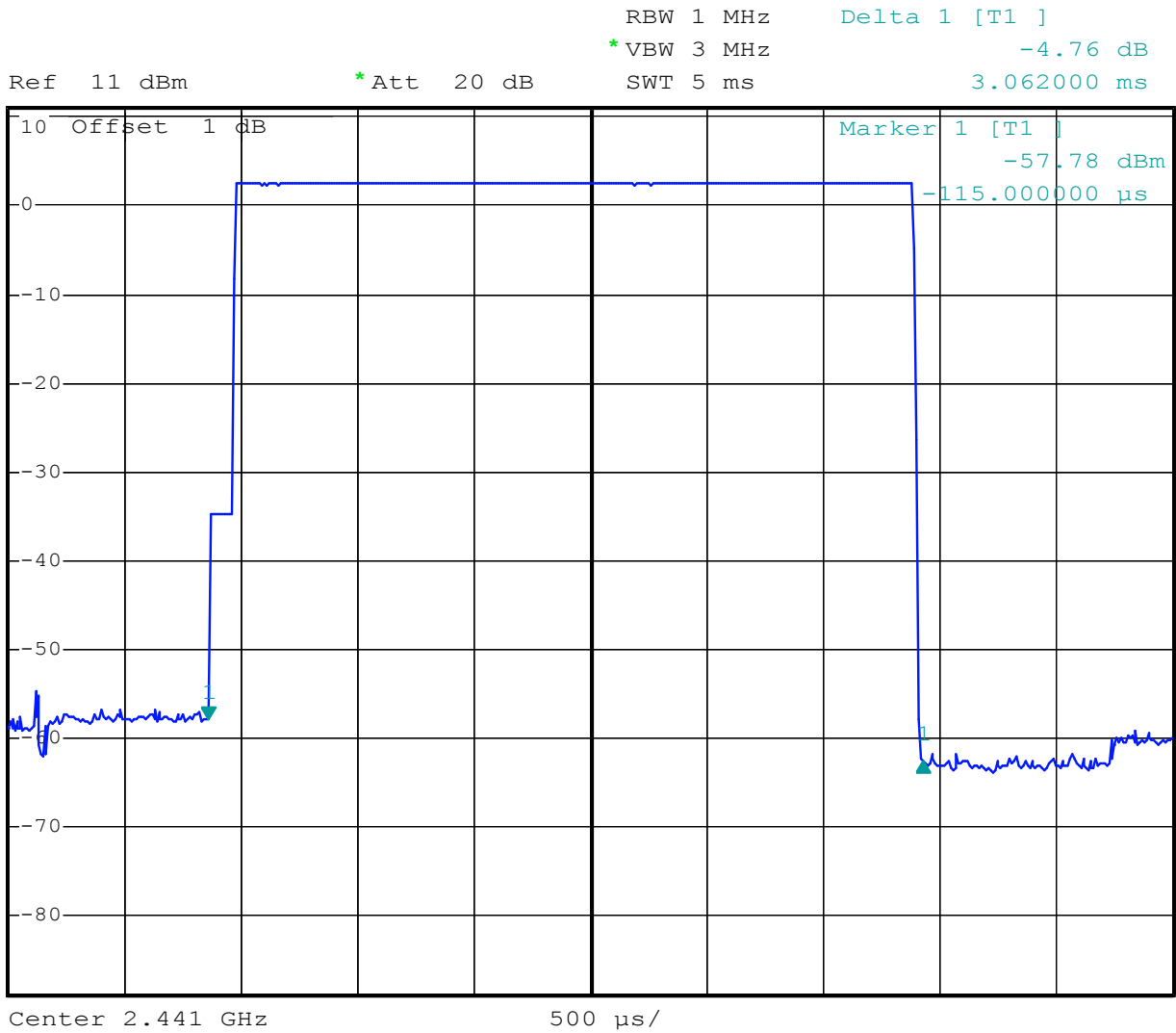


Date: 20.OCT.2012 11:38:43

DH5:



1 PK
MAXH



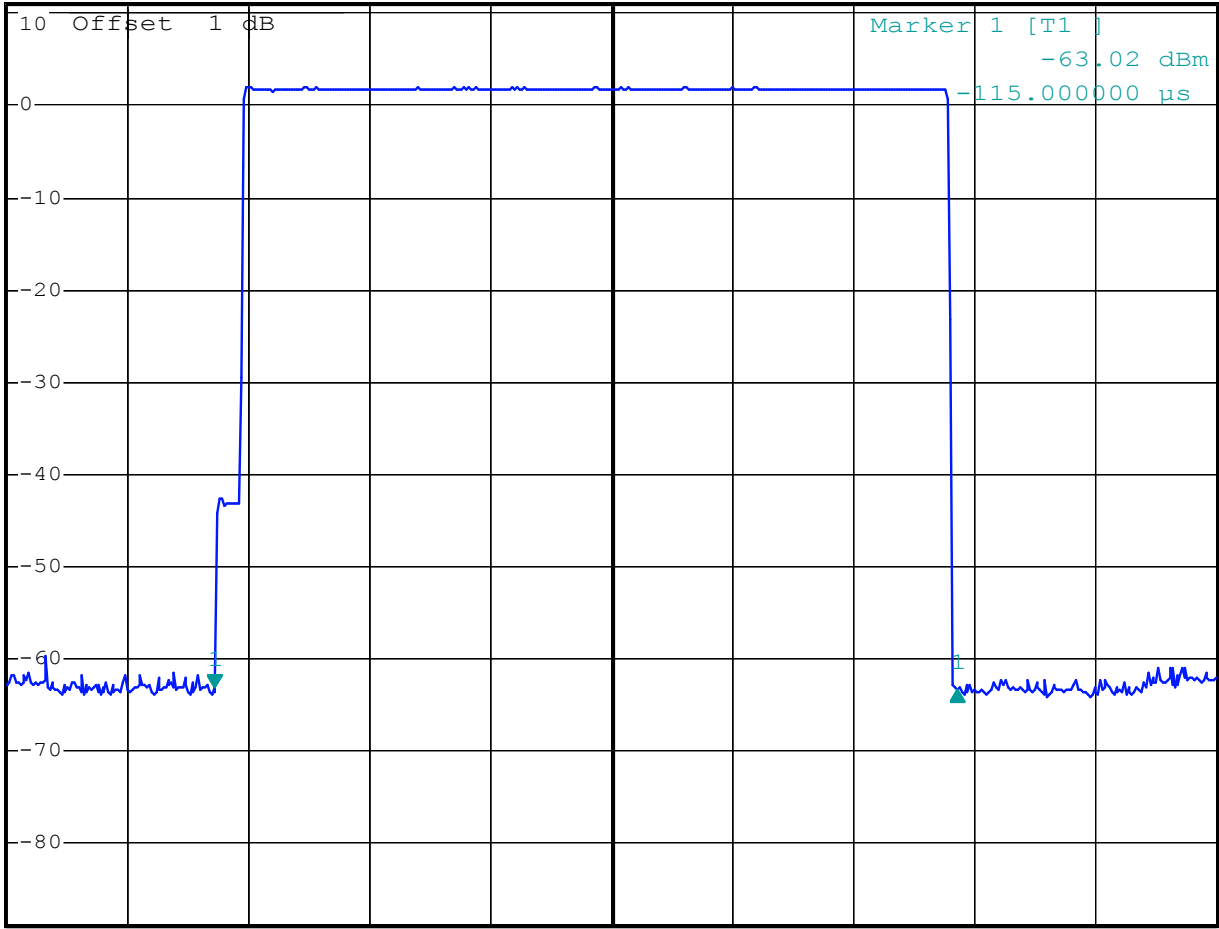
Date: 20.OCT.2012 11:39:41

DH5:



1 PK
MAXH

Ref 11 dBm *Att 20 dB RBW 1 MHz Delta 1 [T1]
*VBW 3 MHz -0.41 dB
SWT 5 ms 3.062000 ms



A

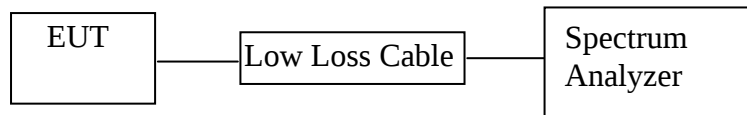
TRG
LVL

3DB

Date: 20.OCT.2012 11:40:51

9. MAXIMUM PEAK OUTPUT POWER TEST

9.1. Block Diagram of Test Setup



(EUT: Bluetooth helmet headset)

9.2. The Requirement For Section 15.247(b)(1)

Section 15.247(b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

9.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.3.1. Bluetooth helmet headset (EUT)

Model Number	:	KB91S
Serial Number	:	N/A
Manufacturer	:	Strategic Sports Limited

9.4. Operating Condition of EUT

9.4.1. Setup the EUT and simulator as shown as Section 9.1.

9.4.2. Turn on the power of all equipment.

9.4.3. Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

9.5. Test Procedure

9.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

9.5.2. Set RBW of spectrum analyzer to 3MHz and VBW to 3MHz.

9.5.3. Measurement the maximum peak output power.

9.6. Test Result

PASS.

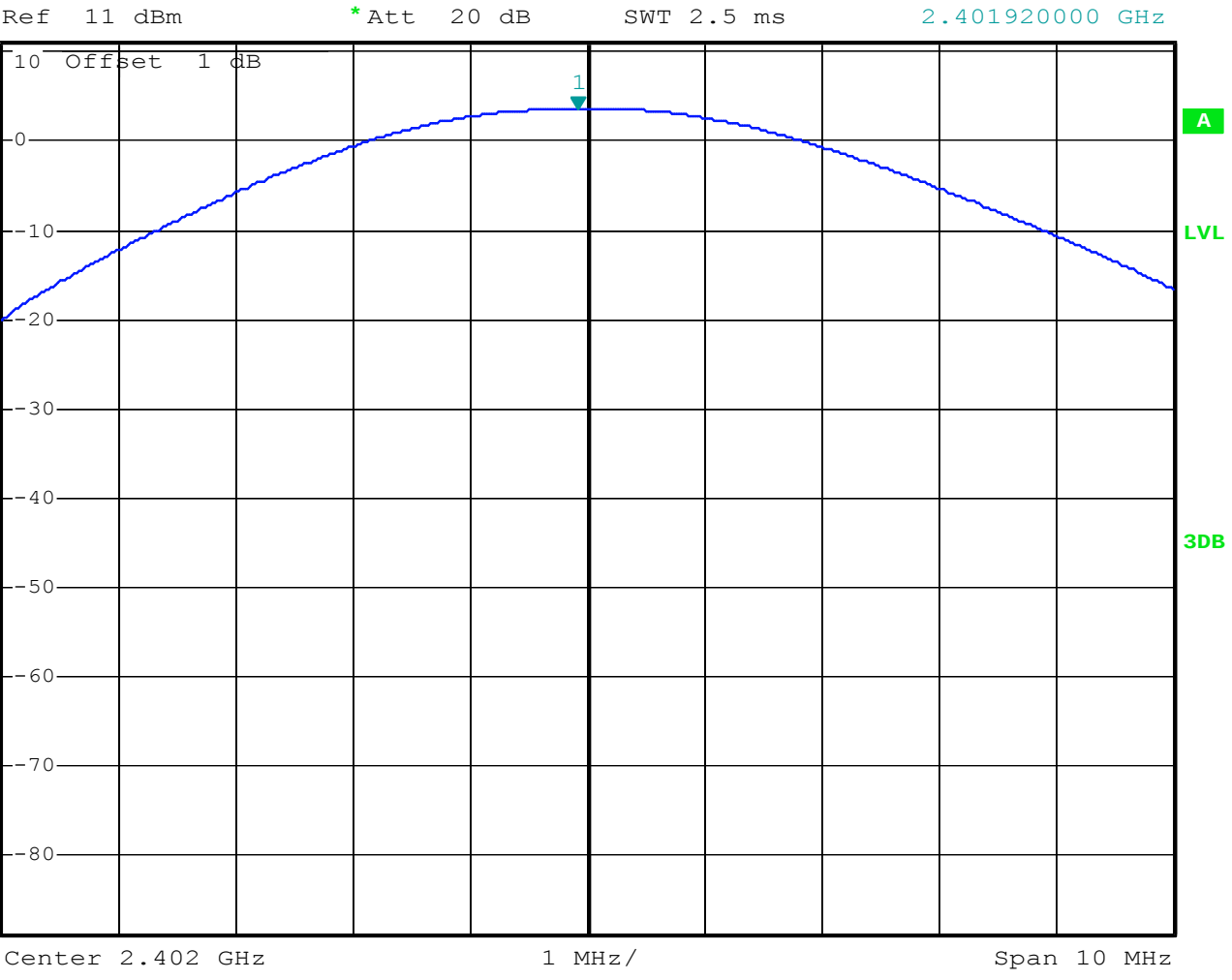
Date of Test:	Oct 20, 2012	Temperature:	25°C
EUT:	Bluetooth helmet headset	Humidity:	50%
Model No.:	KB91S	Power Supply:	AC 120V/60Hz
Test Mode:	TX	Test Engineer:	Alen

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2402	3.58	2.28	21 / 0.125
Middle	2441	2.87	1.94	21 / 0.125
High	2480	1.96	1.57	21 / 0.125

The spectrum analyzer plots are attached as below.



*RBW 3 MHz Marker 1 [T1]
*VBW 3 MHz 3.58 dBm
SWT 2.5 ms 2.401920000 GHz

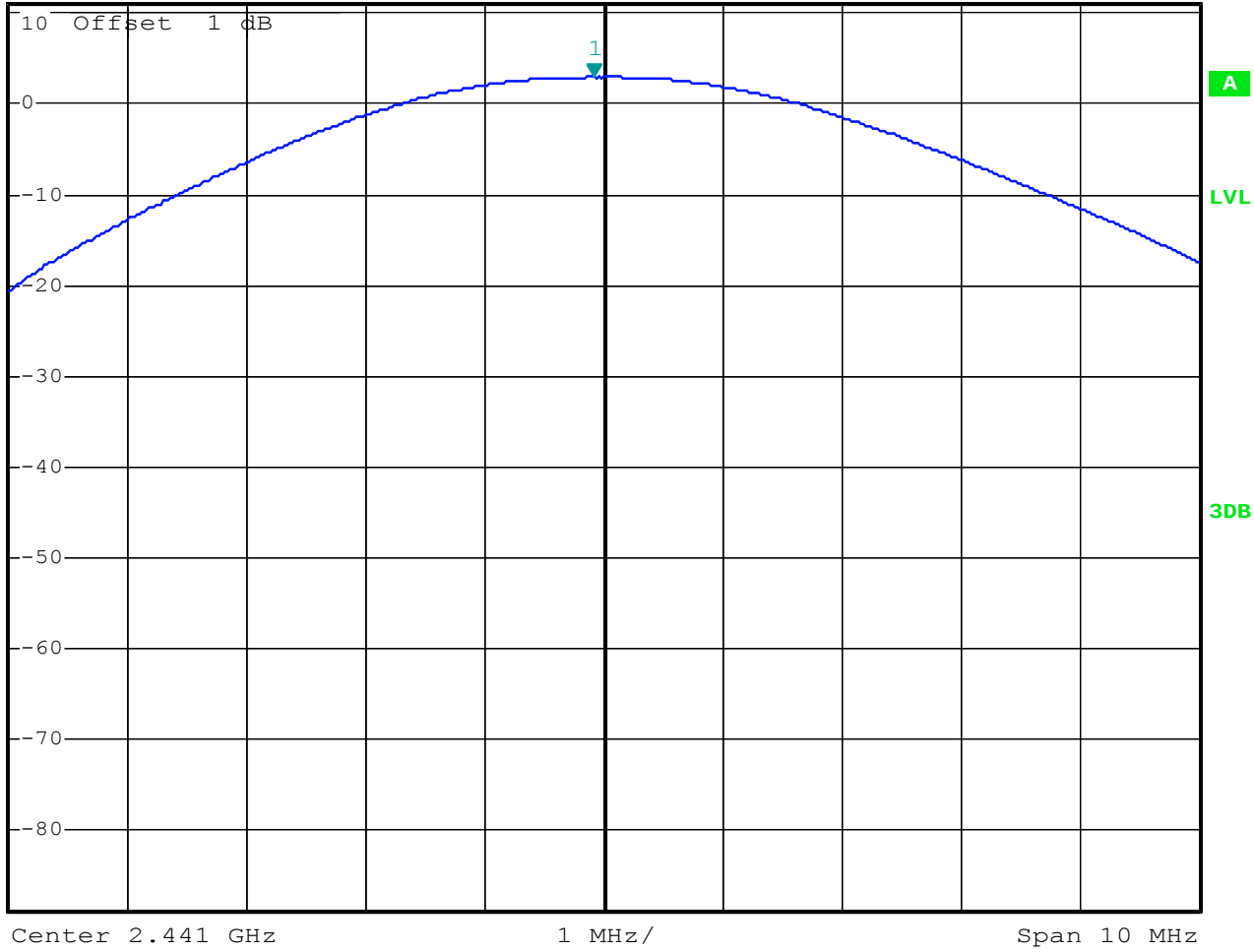


Date: 20.OCT.2012 10:49:35



1 PK
MAXH

Ref 11 dBm * Att 20 dB * RBW 3 MHz Marker 1 [T1]
* VBW 3 MHz 2.87 dBm
SWT 2.5 ms 2.440920000 GHz

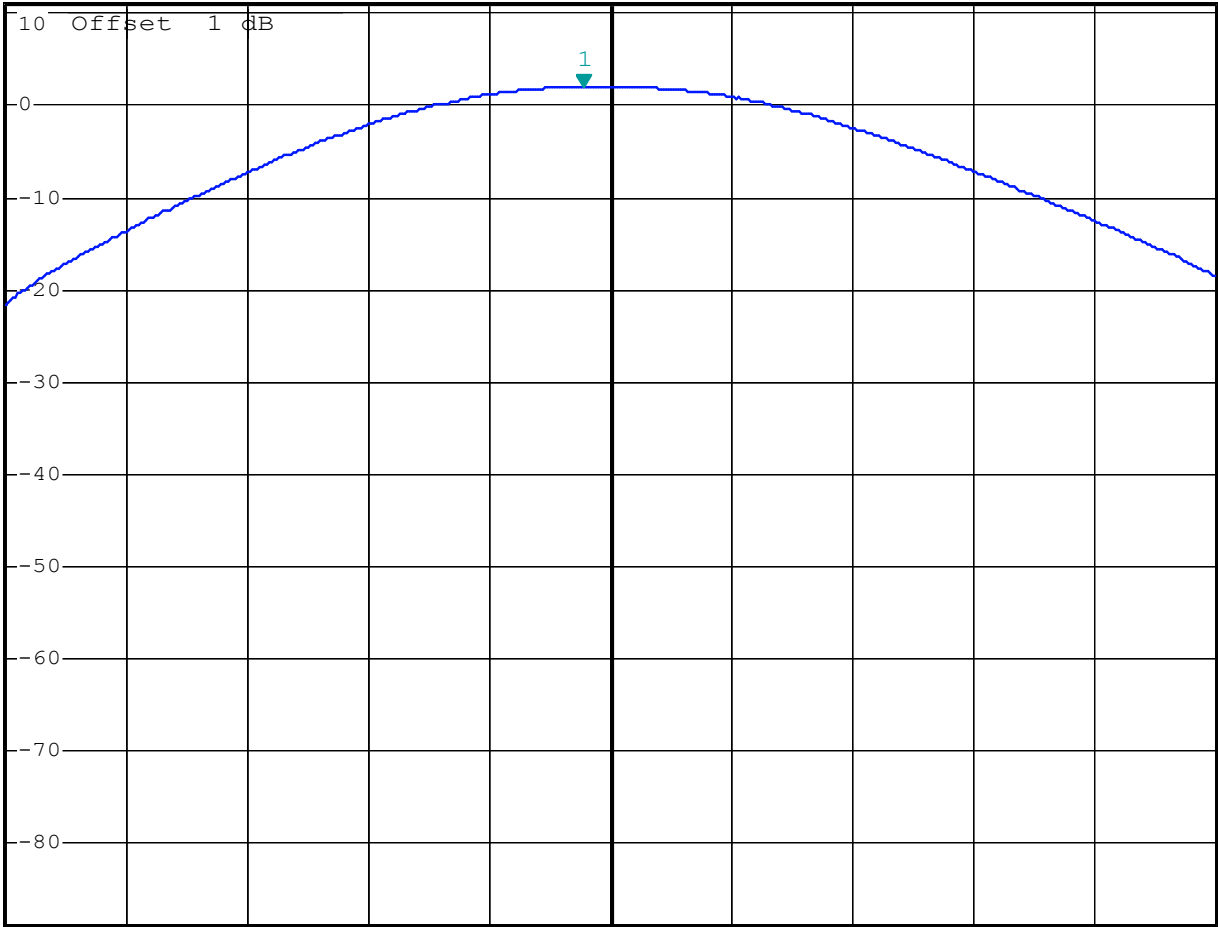


Date: 20.OCT.2012 10:48:10



1 PK
MAXH

* RBW 3 MHz Marker 1 [T1]
* VBW 3 MHz 1.96 dBm
Ref 11 dBm * Att 20 dB SWT 2.5 ms 2.479780000 GHz



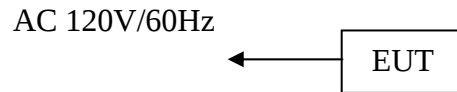
Center 2.48 GHz 1 MHz/ Span 10 MHz

Date: 20.OCT.2012 10:47:04

10. RADIATED EMISSION TEST

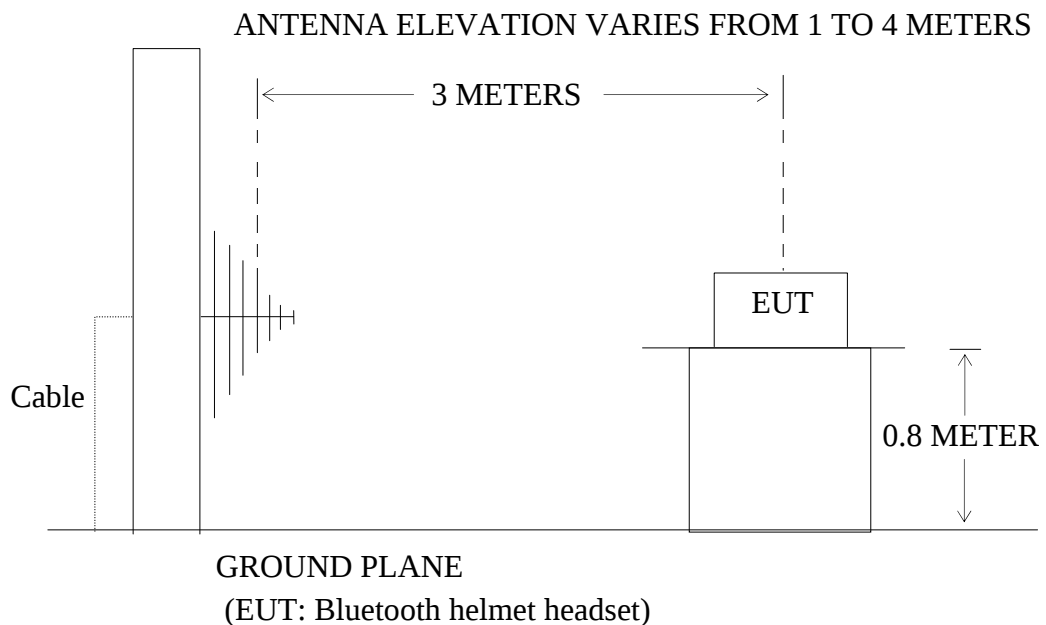
10.1. Block Diagram of Test Setup

10.1.1. Block diagram of connection between the EUT and simulators



(EUT: Bluetooth helmet headset)

10.1.2. Anechoic Chamber Test Setup Diagram



10.2. The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3.Restricted bands of operation

10.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.4.1.Bluetooth helmet headset (EUT)

Model Number : KB91S
 Serial Number : N/A
 Manufacturer : Strategic Sports Limited

10.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement.

The bandwidth of test receiver (R&S ESI26) is set at 120 KHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

10.6.The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	Oct 22, 2012	Temperature:	25°C
EUT:	Bluetooth helmet headset	Humidity:	50%
Model No.:	KB91S	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2402MHz)	Test Engineer:	Alen

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
36.7811	16.64	16.64	31.92	40.00	-8.08	Vertical
46.0558	12.68	14.45	27.13	40.00	-12.87	Vertical
383.1960	9.04	21.64	30.68	46.00	-15.32	Vertical
186.4684	13.98	27.82	27.82	43.50	-15.68	Horizontal
264.0416	12.69	18.66	31.35	46.00	-14.65	Horizontal
471.4665	23.65	23.65	35.70	46.00	-10.30	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4804.000	53.00	55.99	-0.30	52.70	55.69	54.00	74.00	-1.30	-18.31	Vertical
4804.000	53.10	54.95	-0.30	52.80	54.65	54.00	74.00	-1.20	-19.35	Horizontal

Note: 1.The emission emitted by the EUT is too low to be measured except the emission listed above.

2. *: Denotes restricted band of operation.

3. The fundamental radiated emissions were reduced by 2.4G Band Reject Filter in the attached plots.

Date of Test:	Oct 22, 2012	Temperature:	25°C
EUT:	Bluetooth helmet headset	Humidity:	50%
Model No.:	KB91S	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2441MHz)	Test Engineer:	Alen

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
35.6362	16.21	15.54	31.75	40.00	-8.25	Vertical
49.7571	13.10	14.46	27.56	40.00	-12.44	Vertical
391.3601	8.24	21.93	30.17	46.00	-15.83	Vertical
185.1626	14.06	13.83	27.89	43.50	-15.61	Horizontal
260.3566	11.69	18.60	30.29	46.00	-15.71	Horizontal
384.5447	11.89	21.69	33.58	46.00	-12.42	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4882.000	49.20	52.34	0.14	49.34	52.48	54.00	74.00	-4.66	-21.52	Vertical
4882.000	48.16	51.98	0.14	48.30	52.12	54.00	74.00	-5.70	-21.88	Horizontal

Note: 1.The emission emitted by the EUT is too low to be measured except the emission listed above.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by 2.4G Band Reject Filter in the attached plots.**

Date of Test:	Oct 22, 2012	Temperature:	25°C
EUT:	Bluetooth helmet headset	Humidity:	50%
Model No.:	KB91S	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2480MHz)	Test Engineer:	Alen

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
36.7811	13.84	15.28	29.12	40.00	-10.88	Vertical
40.4413	12.35	14.54	26.89	40.00	-13.11	Vertical
415.4486	6.21	23.06	29.27	46.00	-16.73	Vertical
185.1626	14.21	13.83	28.04	43.50	-15.46	Horizontal
265.9035	11.67	18.59	30.26	46.00	-15.74	Horizontal
381.3601	10.97	21.93	32.90	46.00	-13.10	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4960.000	43.15	47.78	0.52	43.67	48.30	54.00	74.00	-10.33	-25.70	Vertical
4960.000	43.21	46.96	0.52	43.73	47.48	54.00	74.00	-10.27	-26.52	Horizontal

Note: 1.The emission emitted by the EUT is too low to be measured except the emission listed above.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by 2.4G Band Reject Filter in the attached plots.**



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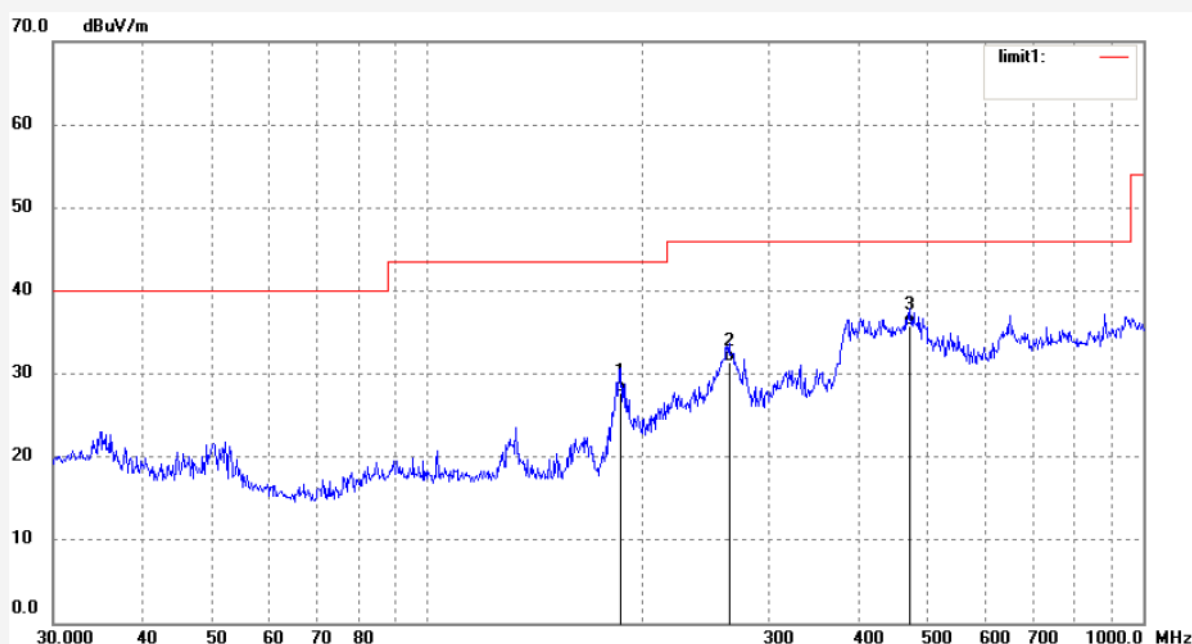
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #342
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Bluetooth helmet headset
Mode: TX 2402MHz
Model: KB91S
Manufacturer: Strategic Sports Limited

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/10/22
Time: 12:09:13
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	186.4684	13.98	13.84	27.82	43.50	-15.68	QP			
2	264.0416	12.69	18.66	31.35	46.00	-14.65	QP			
3	471.4665	12.05	23.65	35.70	46.00	-10.30	QP			



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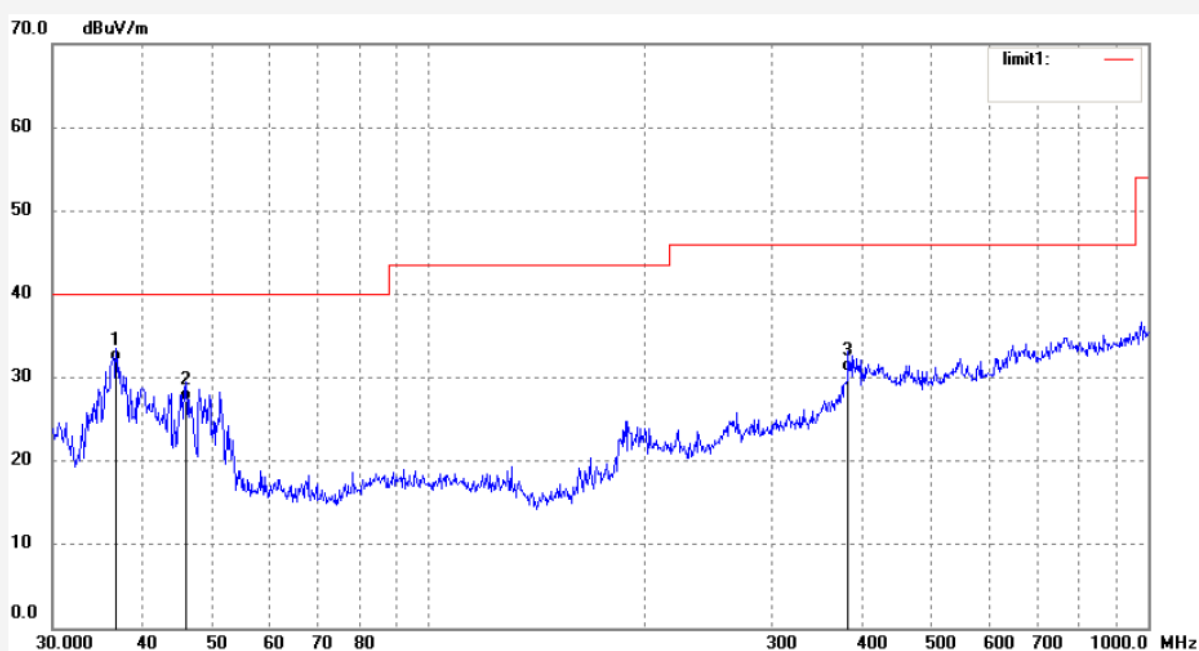
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #343
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Bluetooth helmet headset
Mode: TX 2402MHz
Model: KB91S
Manufacturer: Strategic Sports Limited

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/10/22
Time: 12:10:43
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.7811	16.64	15.28	31.92	40.00	-8.08	QP			
2	46.0558	12.68	14.45	27.13	40.00	-12.87	QP			
3	383.1960	9.04	21.64	30.68	46.00	-15.32	QP			



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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: ALEN #344

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Bluetooth helmet headset

Mode: TX 2441MHz

Model: KB91S

Manufacturer: Strategic Sports Limited

Polarization: Vertical

Power Source: AC 120V/60Hz

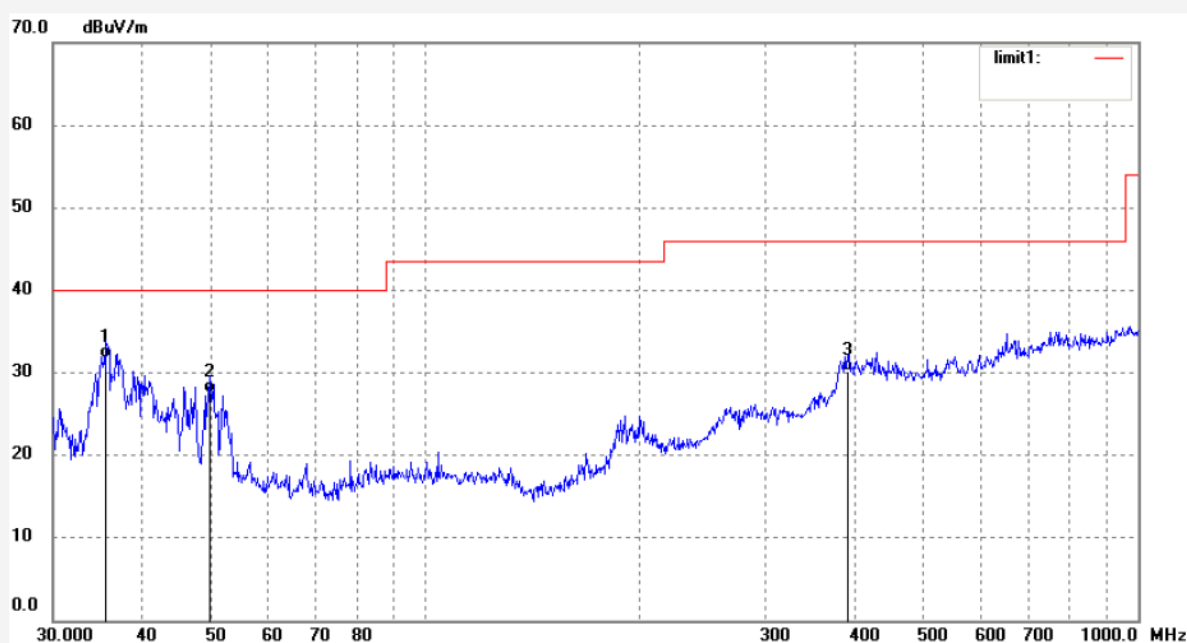
Date: 2012/10/22

Time: 12:12:27

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.6362	16.21	15.54	31.75	40.00	-8.25	QP			
2	49.7571	13.10	14.46	27.56	40.00	-12.44	QP			
3	391.3601	8.24	21.93	30.17	46.00	-15.83	QP			



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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: ALEN #345
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Bluetooth helmet headset
Mode: TX 2441MHz
Model: KB91S
Manufacturer: Strategic Sports Limited

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/10/22
Time: 12:13:23
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	185.1626	14.06	13.83	27.89	43.50	-15.61	QP			
2	260.3566	11.69	18.60	30.29	46.00	-15.71	QP			
3	384.5447	11.89	21.69	33.58	46.00	-12.42	QP			



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Site: 966 chamber

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Fax:+86-0755-26503396

Job No.: ALEN #346

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Bluetooth helmet headset

Mode: TX 2480MHz

Model: KB91S

Manufacturer: Strategic Sports Limited

Polarization: Horizontal

Power Source: AC 120V/60Hz

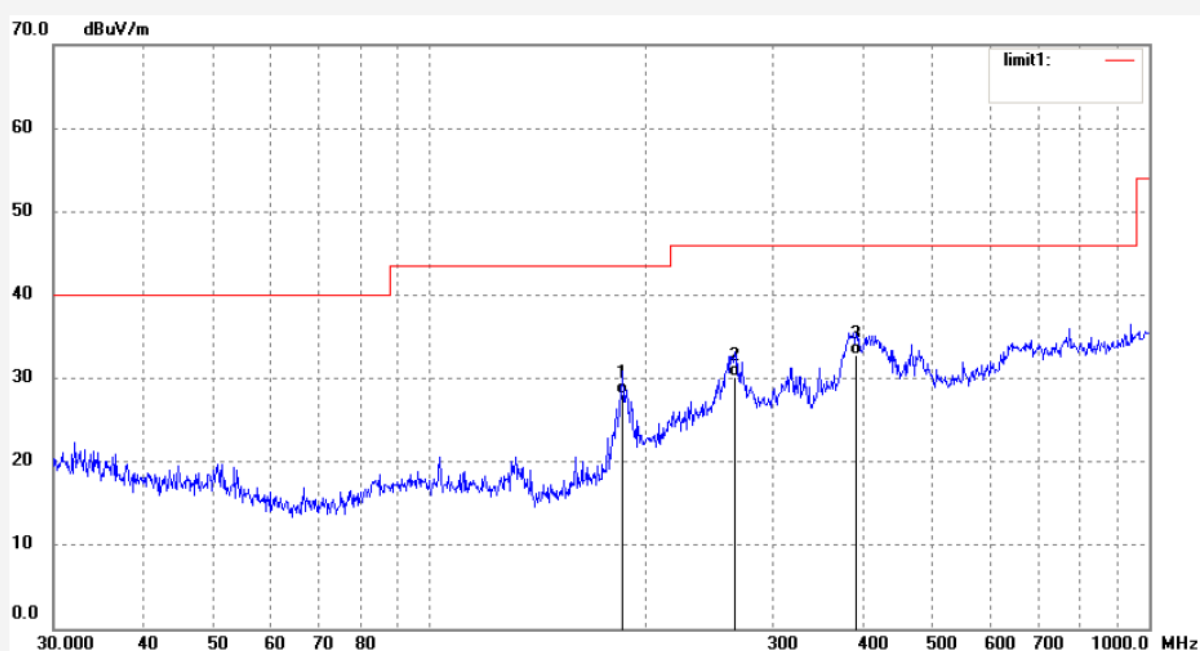
Date: 2012/10/22

Time: 12:14:44

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	185.1626	14.21	13.83	28.04	43.50	-15.46	QP			
2	265.9035	11.67	18.59	30.26	46.00	-15.74	QP			
3	391.3601	10.97	21.93	32.90	46.00	-13.10	QP			



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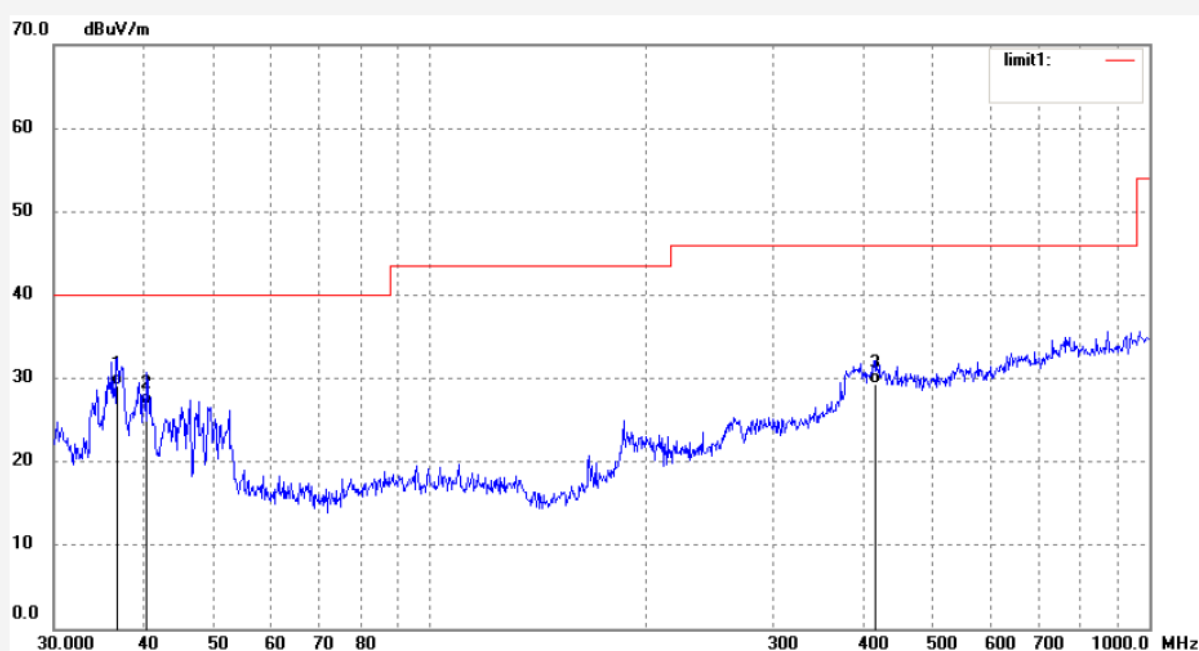
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #347
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Bluetooth helmet headset
Mode: TX 2480MHz
Model: KB91S
Manufacturer: Strategic Sports Limited

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/10/22
Time: 12:15:52
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.7811	13.84	15.28	29.12	40.00	-10.88	QP			
2	40.4413	12.35	14.54	26.89	40.00	-13.11	QP			
3	415.4486	6.21	23.06	29.27	46.00	-16.73	QP			



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #349

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Bluetooth helmet headset

Mode: TX 2402MHz

Model: KB91S

Manufacturer: Strategic Sports Limited

Polarization: Vertical

Power Source: AC 120V/60Hz

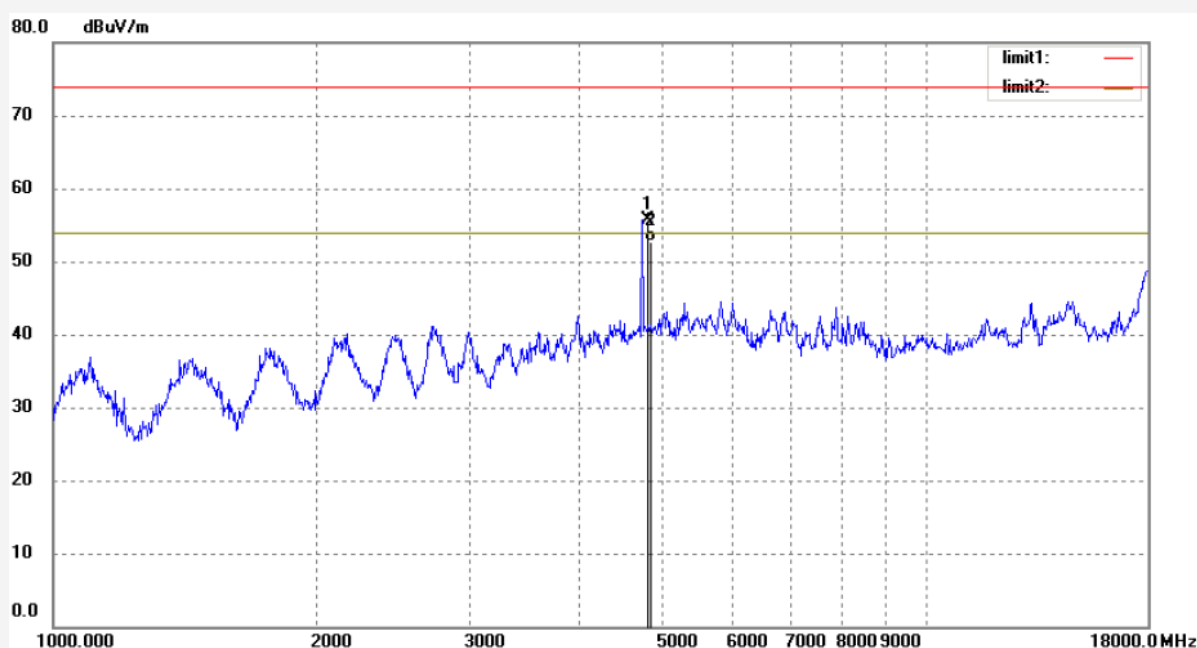
Date: 2012/10/22

Time: 12:35:56

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4804.000	55.99	-0.30	55.69	74.00	-18.31	peak			
2	4804.000	53.00	-0.30	52.70	54.00	-1.30	AVG			



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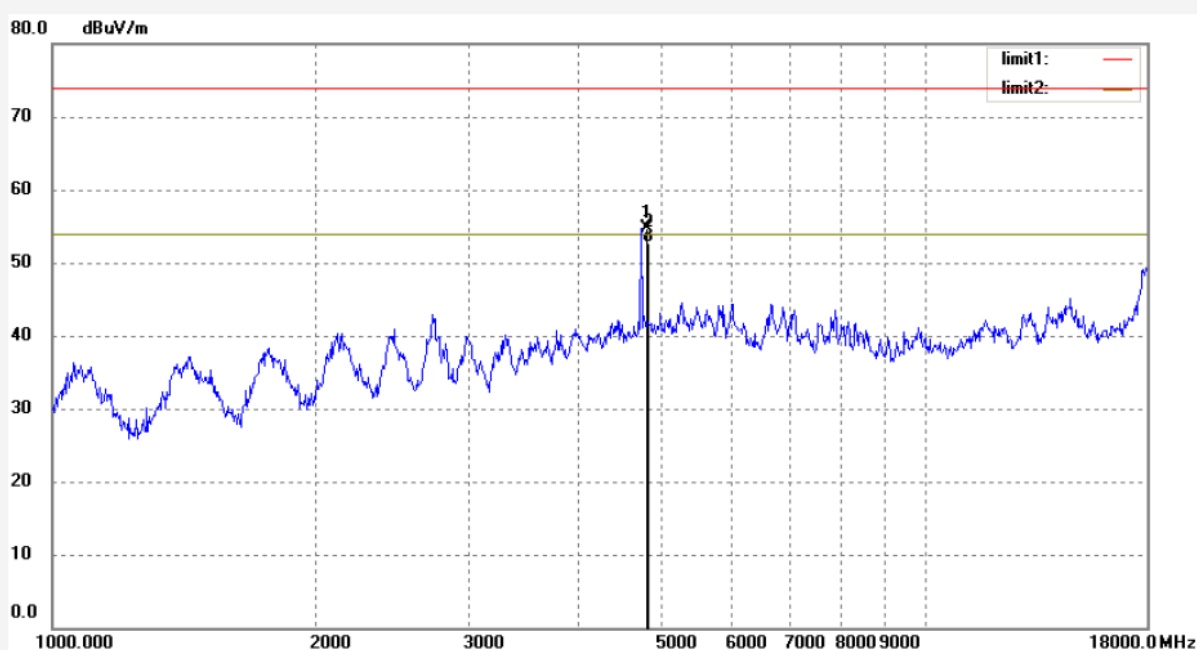
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #350
Standard: FCC 15C PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Bluetooth helmet headset
Mode: TX 2402MHz
Model: KB91S
Manufacturer: Strategic Sports Limited

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/10/22
Time: 12:38:36
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4804.000	54.95	-0.30	54.65	74.00	-19.35	peak			
2	4804.000	53.10	-0.30	52.80	54.00	-1.20	AVG			



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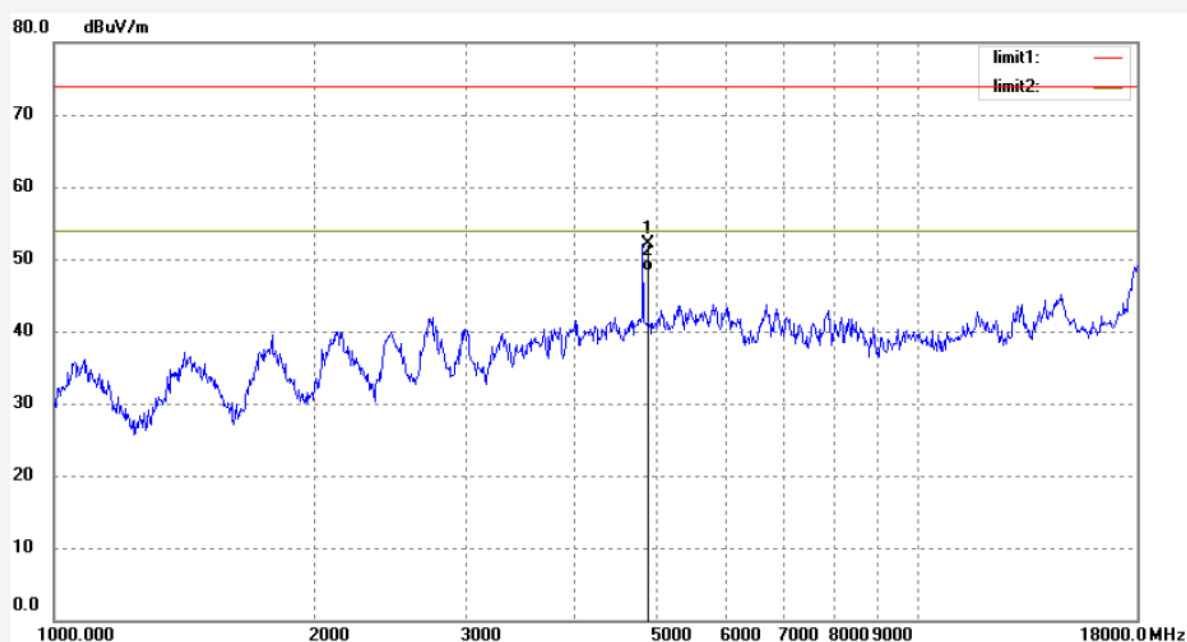
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #351
Standard: FCC 15C PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Bluetooth helmet headset
Mode: TX 2441MHz
Model: KB91S
Manufacturer: Strategic Sports Limited

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/10/22
Time: 12:42:50
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4882.000	51.98	0.14	52.12	74.00	-21.88	peak			
2	4882.000	48.16	0.14	48.30	54.00	-5.70	AVG			



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #352

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Bluetooth helmet headset

Mode: TX 2441MHz

Model: KB91S

Manufacturer: Strategic Sports Limited

Polarization: Vertical

Power Source: AC 120V/60Hz

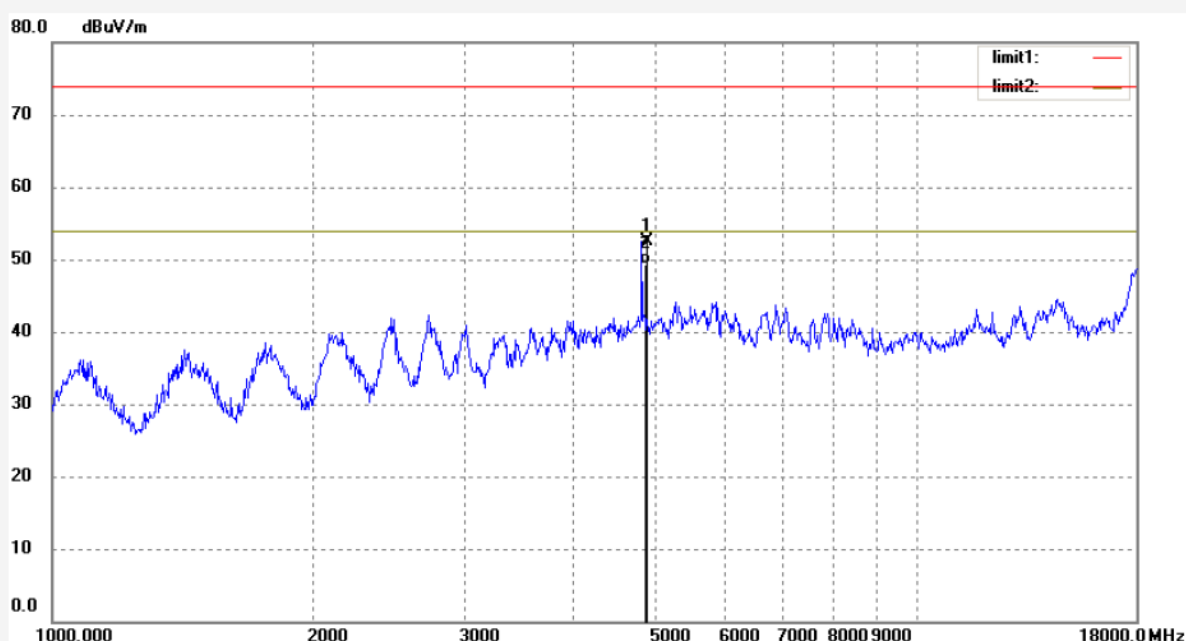
Date: 2012/10/22

Time: 12:44:45

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4882.000	52.34	0.14	52.48	74.00	-21.52	peak			
2	4882.000	49.20	0.14	49.34	54.00	-4.66	AVG			



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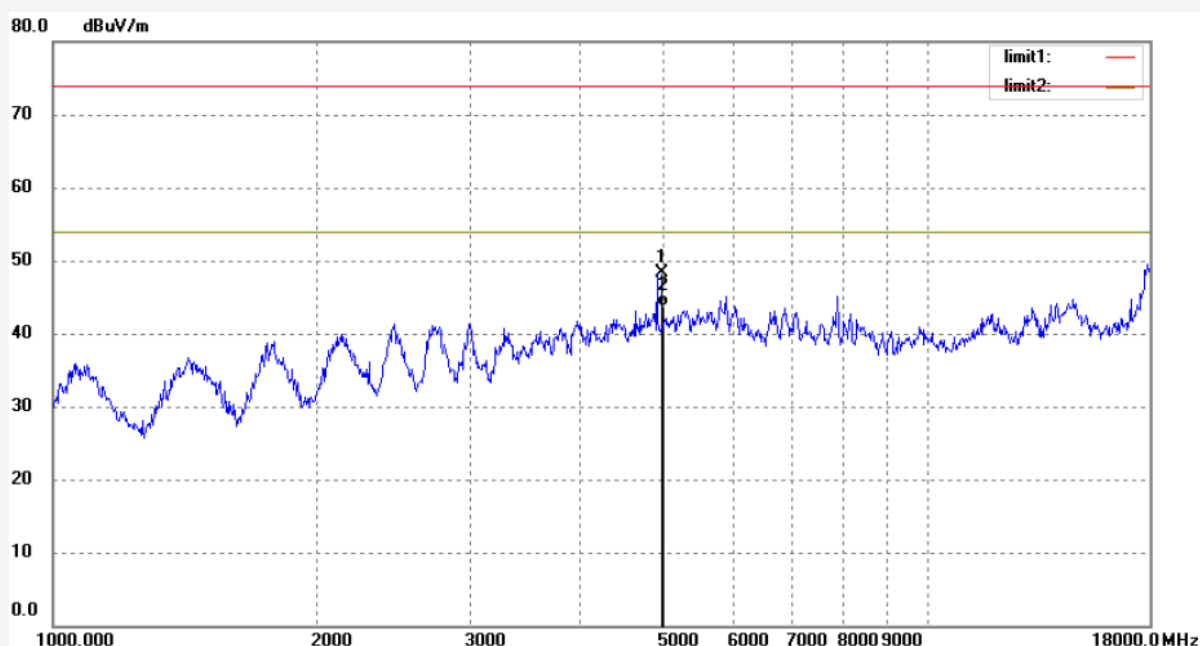
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #353
Standard: FCC 15C PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Bluetooth helmet headset
Mode: TX 2480MHz
Model: KB91S
Manufacturer: Strategic Sports Limited

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/10/22
Time: 12:47:04
Engineer Signature:
Distance: 3m

Note: Report No.: ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4960.000	47.78	0.52	48.30	74.00	-25.70	peak			
2	4960.000	43.15	0.52	43.67	54.00	-10.33	AVG			



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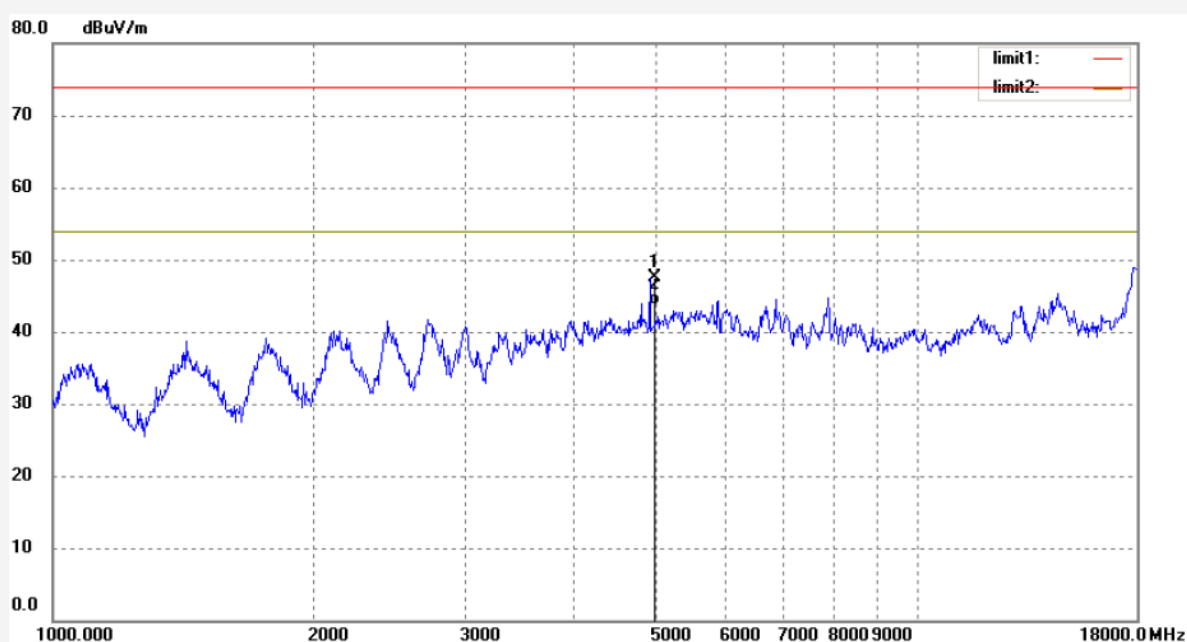
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #354
Standard: FCC 15C PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Bluetooth helmet headset
Mode: TX 2480MHz
Model: KB91S
Manufacturer: Strategic Sports Limited

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/10/22
Time: 12:48:12
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4960.000	46.96	0.52	47.48	74.00	-26.52	peak			
2	4960.000	43.21	0.52	43.73	54.00	-10.27	AVG			


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Alen #168

Standard: FCC 15C

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Bluetooth helmet headset

Mode: TX 2402MHz

Model: KB91S

Manufacturer: Strategic Sports Limited

Polarization: Vertical

Power Source: AC 120V/60Hz

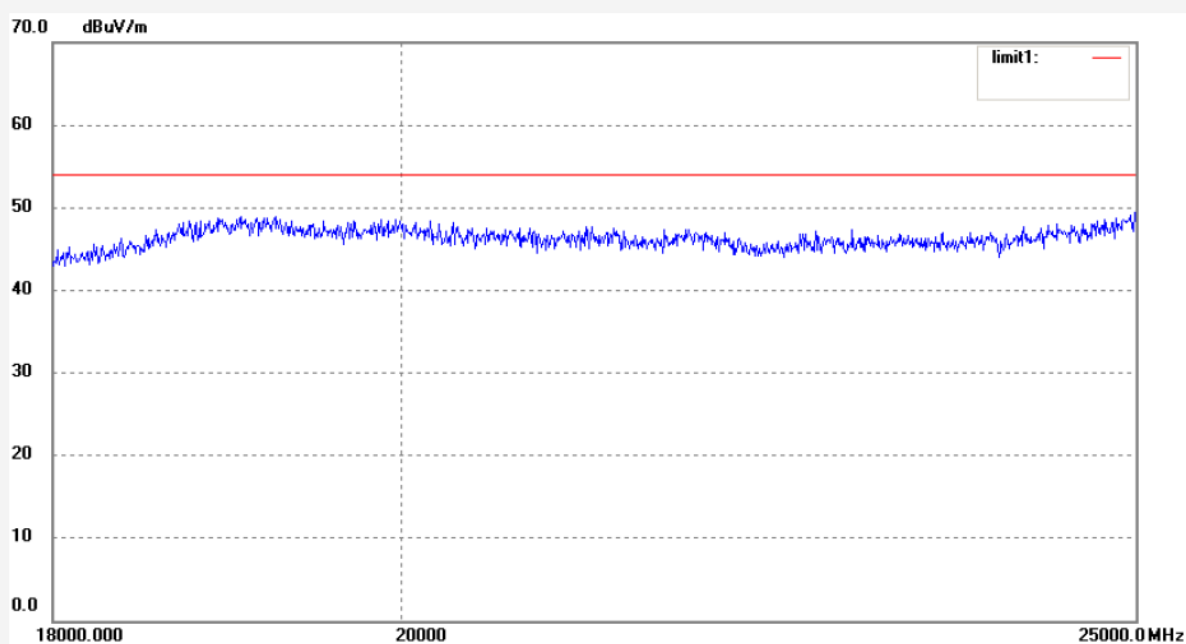
Date: 12/010/19/

Time: 11:32:05

Engineer Signature: Alen

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber

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Fax:+86-0755-26503396

Job No.: Alen #169

Standard: FCC 15C

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Bluetooth helmet headset

Mode: TX 2402MHz

Model: KB91S

Manufacturer: Strategic Sports Limited

Polarization: Horizontal

Power Source: AC 120V/60Hz

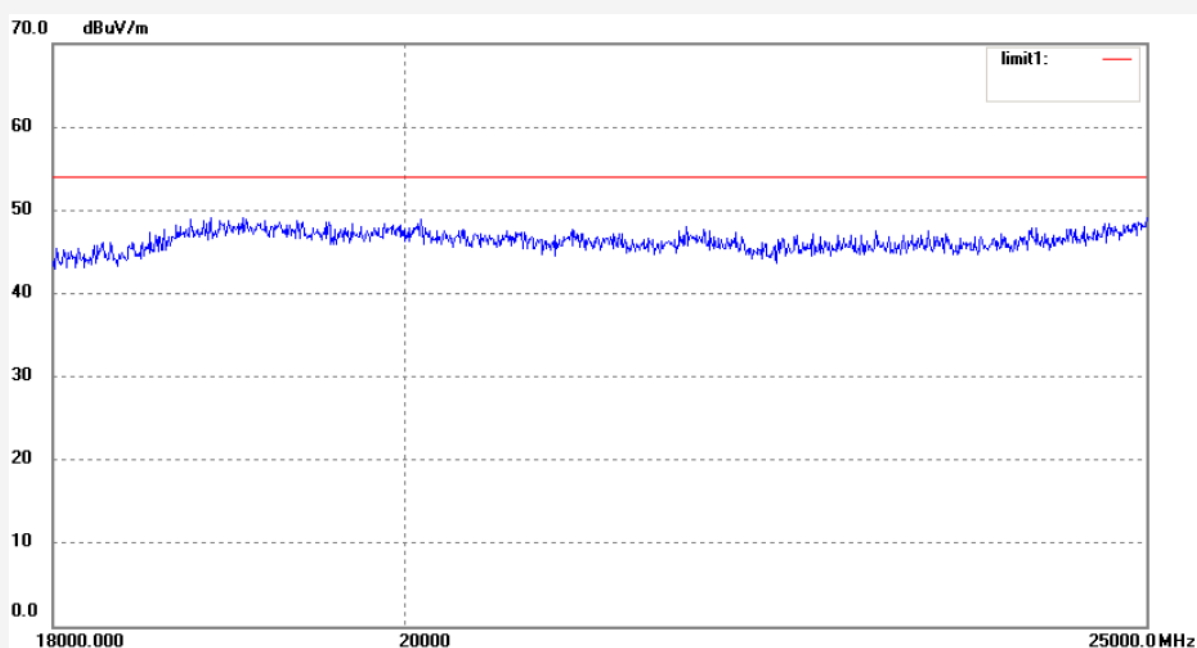
Date: 12/10/19/

Time: 11:35:56

Engineer Signature: Alen

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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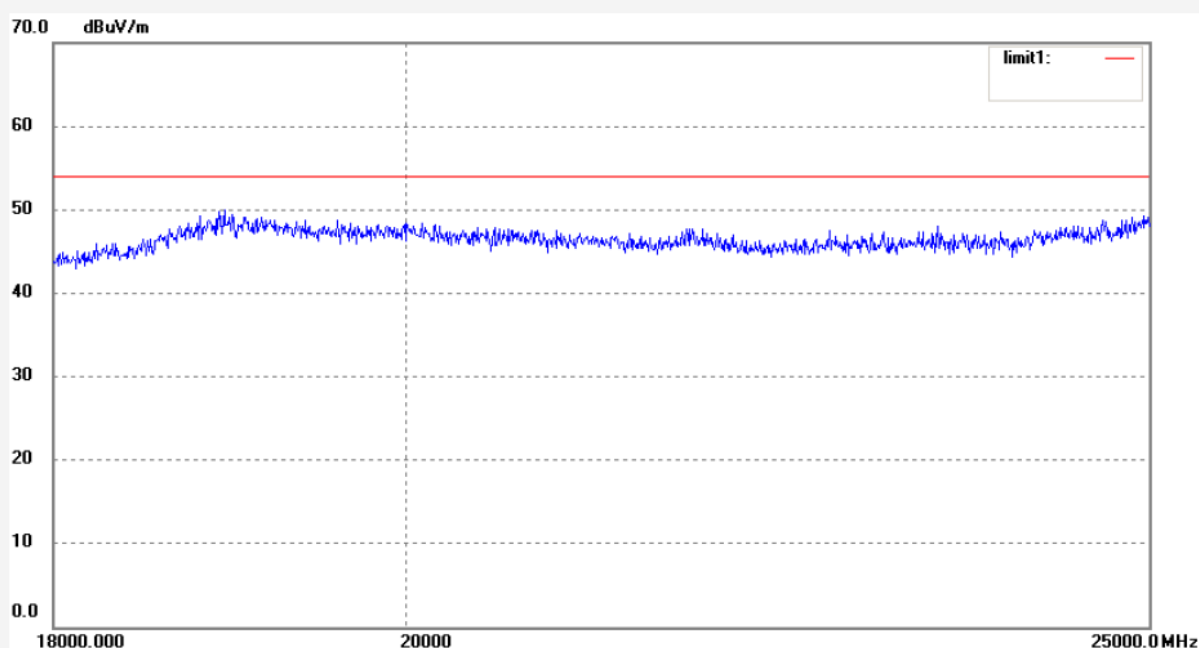
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Alen #170	Polarization: Horizontal
Standard: FCC 15C	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/10/19/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11:38:38
EUT: Bluetooth helmet headset	Engineer Signature: Alen
Mode: TX 2440MHz	Distance: 3m
Model: KB91S	
Manufacturer: Strategic Sports Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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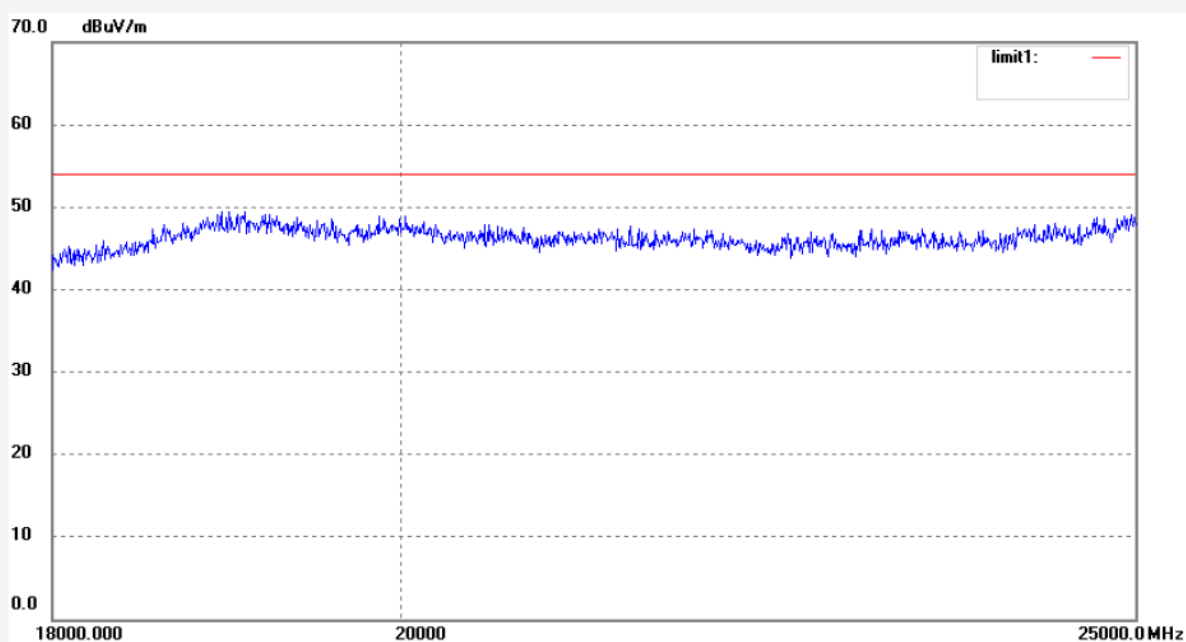
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Alen #171	Polarization: Vertical
Standard: FCC 15C	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/10/19/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11:43:17
EUT: Bluetooth helmet headset	Engineer Signature: Alen
Mode: TX 2440MHz	Distance: 3m
Model: KB91S	
Manufacturer: Strategic Sports Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

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Fax:+86-0755-26503396

Job No.: Alen #172

Standard: FCC 15C

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Bluetooth helmet headset

Mode: TX 2480MHz

Model: KB91S

Manufacturer: Strategic Sports Limited

Polarization: Vertical

Power Source: AC 120V/60Hz

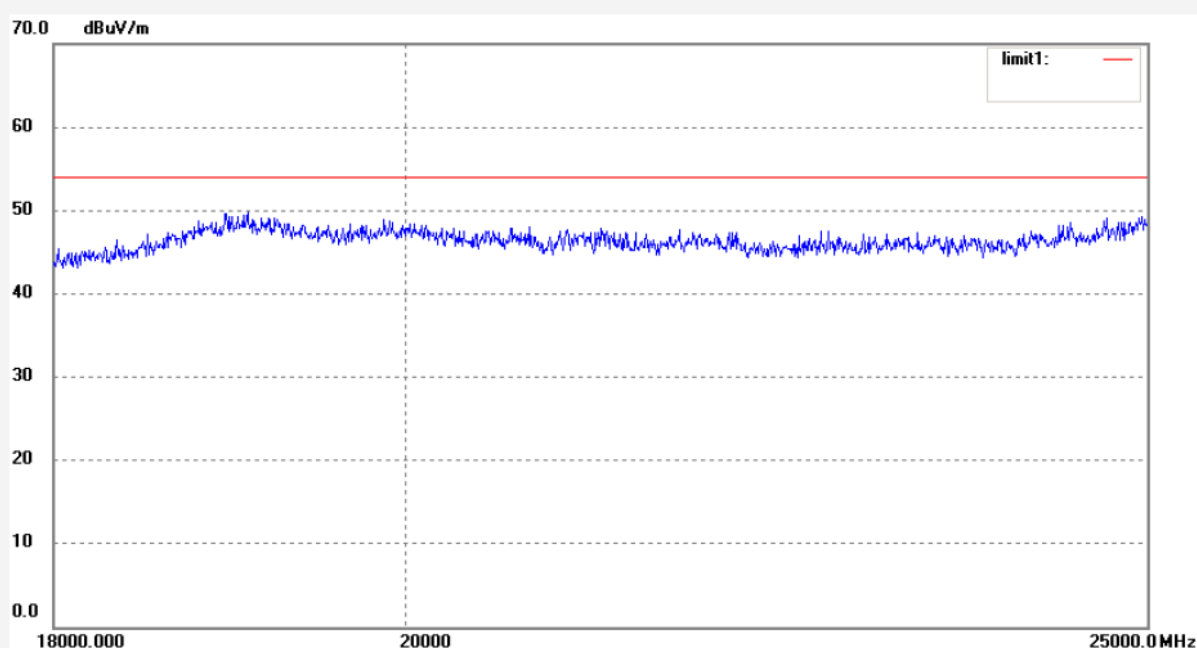
Date: 12/10/19/

Time: 11:47:55

Engineer Signature: Alen

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: Alen #173

Standard: FCC 15C

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: Bluetooth helmet headset

Mode: TX 2480MHz

Model: KB91S

Manufacturer: Strategic Sports Limited

Polarization: Horizontal

Power Source: AC 120V/60Hz

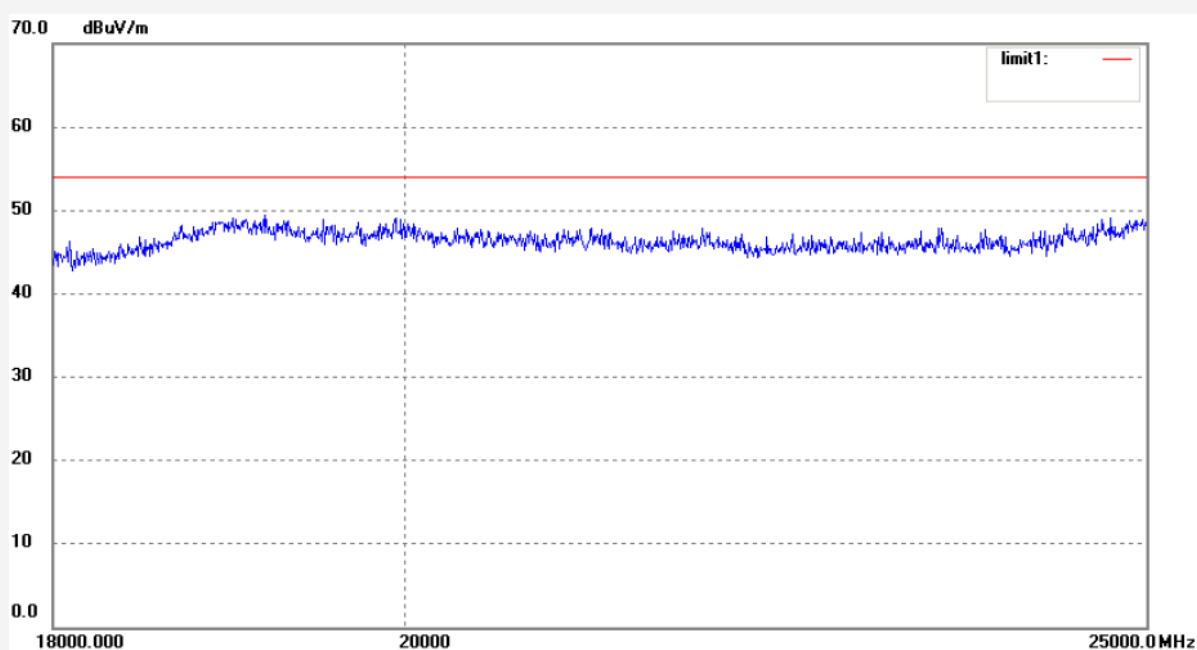
Date: 12/10/19/

Time: 11:50:47

Engineer Signature: Alen

Distance: 3m

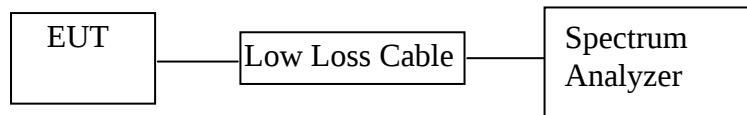
Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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11.BAND EDGE COMPLIANCE TEST

11.1.Block Diagram of Test Setup



(EUT: Bluetooth helmet headset)

11.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

11.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.3.1.Bluetooth helmet headset (EUT)

Model Number	:	KB91S
Serial Number	:	N/A
Manufacturer	:	Strategic Sports Limited

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

11.5.Test Procedure

11.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

11.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

11.5.3.The band edges was measured and recorded.

11.6. Test Result

Pass

Date of Test:	<u>Oct 20, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>Bluetooth helmet headset</u>	Humidity:	<u>50%</u>
Model No.:	<u>KB91S</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>TX 2402MHz</u>	Test Engineer:	<u>Alen</u>

Conducted test

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2399.760	48.02	> 20dBc

Date of Test:	<u>Oct 20, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>Bluetooth helmet headset</u>	Humidity:	<u>50%</u>
Model No.:	<u>KB91S</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>TX 2480MHz</u>	Test Engineer:	<u>Ricky</u>

Conducted test

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2483.980	54.29	> 20dBc



```
*RBW 100 kHz      Delta 1 [T1 ]
```

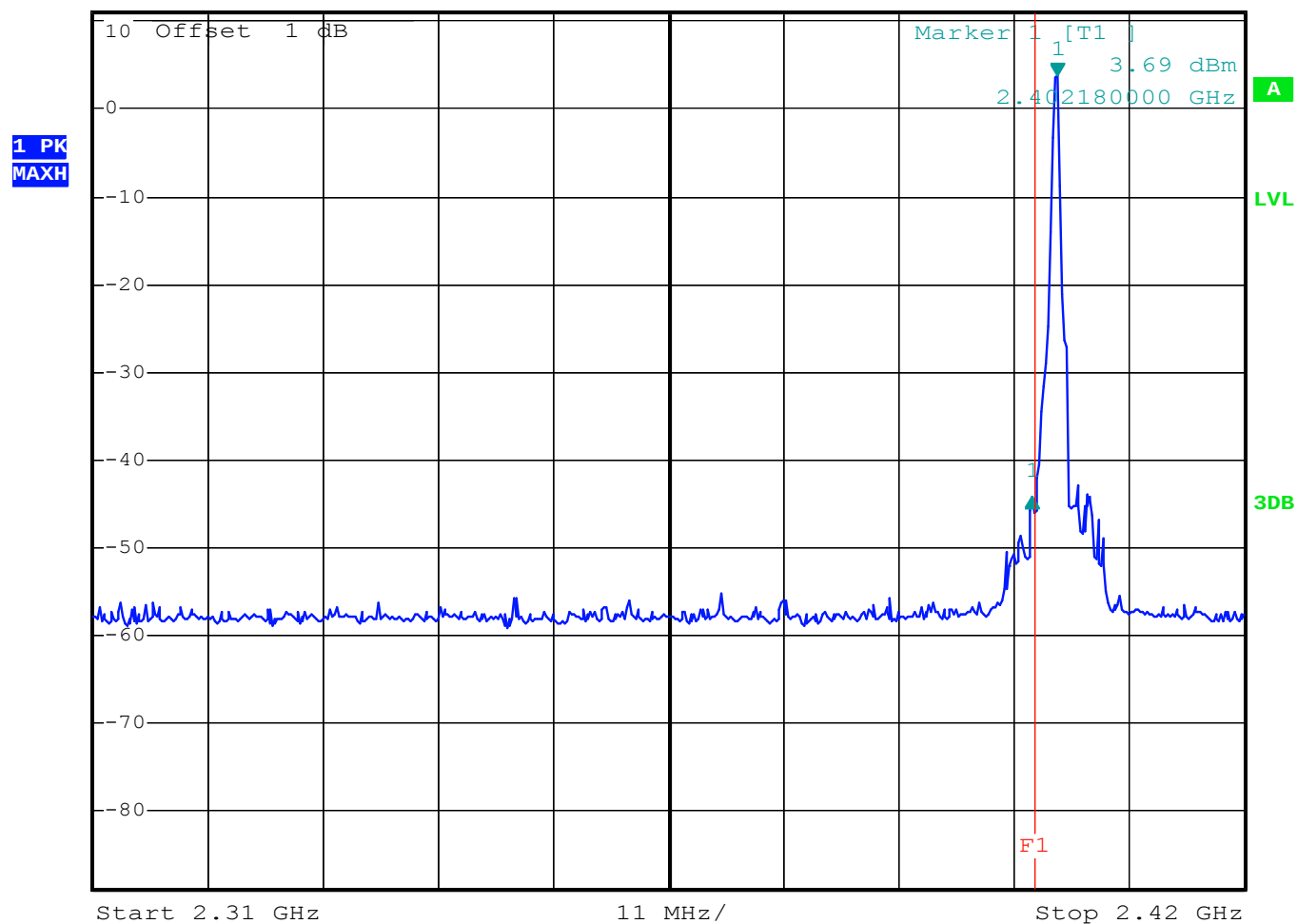
```
* VBW 300 kHz -48.02 dB
```

Ref 11 dBm

* Att 20 dB

SWT 15 ms

-2.420000000 MHz

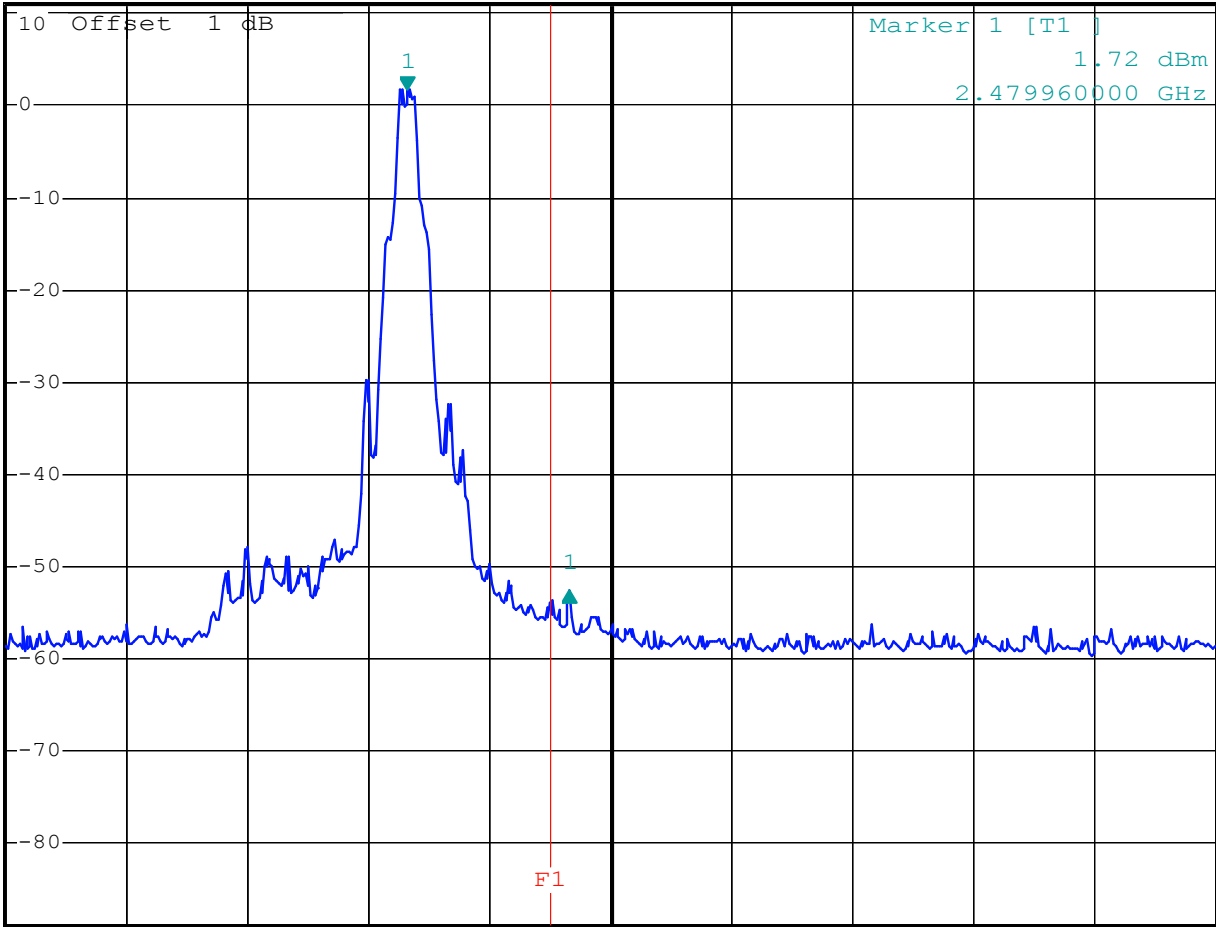


Date: 20.OCT.2012 11:10:26



1 PK
MAXH

* RBW 100 kHz Delta 1 [T1]
* VBW 300 kHz -54.29 dB
Ref 11 dBm * Att 20 dB SWT 5 ms 4.020000000 MHz



Start 2.47 GHz 3 MHz/ Stop 2.5 GHz

Date: 20.OCT.2012 11:13:54

Radiated Band Edge Result

Date of Test:	Oct 10, 2012	Temperature:	25°C
EUT:	Bluetooth helmet headset	Humidity:	50%
Model No.:	KB91S	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2402MHz)	Test Engineer:	Alen

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2400.000	54.36	57.84	-7.46	46.90	50.38	54.00	74.00	-7.10	-23.62	Vertical
2400.000	56.31	58.94	-7.46	48.85	51.85	54.00	74.00	-5.15	-22.52	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

3. Display the measurement of peak values.

Date of Test:	Oct 10, 2012	Temperature:	25°C
EUT:	Bluetooth helmet headset	Humidity:	50%
Model No.:	KB91S	Power Supply:	AC 120V/60Hz
Test Mode:	TX (2480MHz)	Test Engineer:	Alen

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	38.63	40.18	-7.37	31.26	32.81	54.00	74.00	-22.74	-41.19	Vertical
2483.500	37.81	39.63	-7.37	30.44	32.26	54.00	74.00	-23.56	-41.74	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.



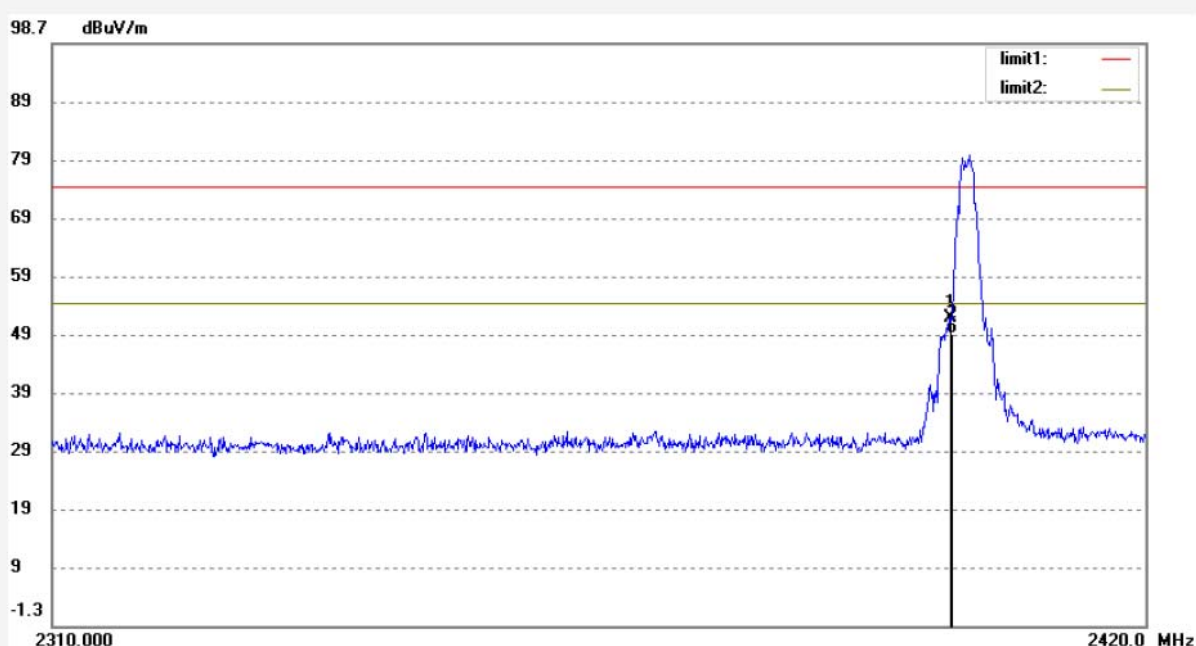
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #463	Polarization: Horizontal
Standard: FCC 15C PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/10/04
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 15:01:20
EUT: Bluetooth helmet headset	Engineer Signature: alen
Mode: TX 2402MHz	Distance: 3m
Model: KB91S	
Manufacturer: Strategic Sports Limited	

Note: Report No:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	58.94	-7.46	51.48	74.00	-22.52	peak			
2	2400.000	56.31	-7.46	48.85	54.00	-5.15	AVG			



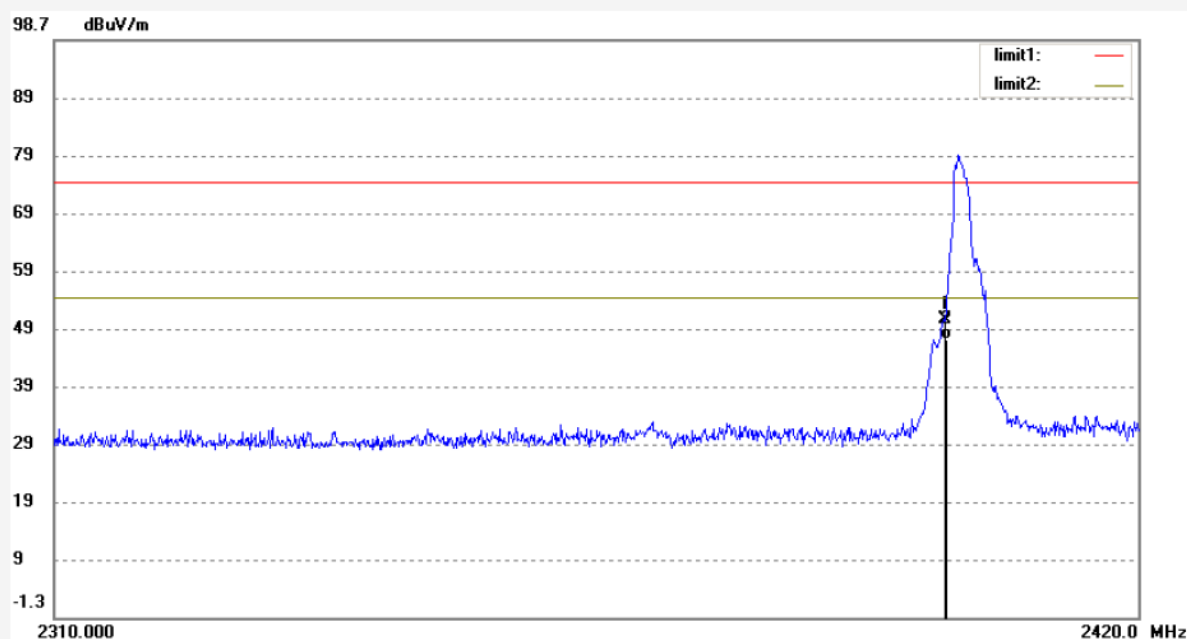
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #464	Polarization: Vertical
Standard: FCC 15C PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/10/04
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 14:57:26
EUT: Bluetooth helmet headset	Engineer Signature: alen
Mode: TX 2402MHz	Distance: 3m
Model: KB91S	
Manufacturer: Strategic Sports Limited	

Note: Report No:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	57.84	-7.46	50.38	74.00	-23.62	peak			
2	2400.000	54.36	-7.46	46.90	54.00	-7.10	AVG			



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Fax:+86-0755-26503396

Job No.: ALEN #461

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Bluetooth helmet headset

Mode: TX 2480MHz

Model: KB91S

Manufacturer: Strategic Sports Limited

Polarization: Horizontal

Power Source: AC 120V/60Hz

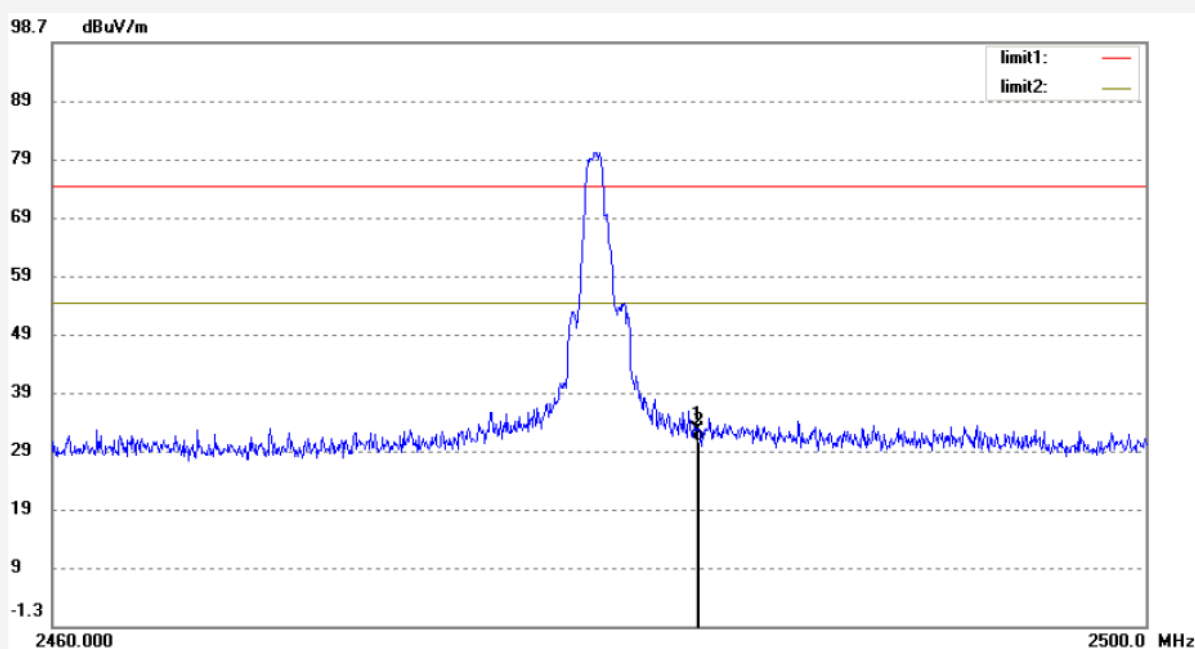
Date: 2012/10/04

Time: 14:52:53

Engineer Signature: alen

Distance: 3m

Note: Report No:ATE20122289



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	39.63	-7.37	32.26	74.00	-41.74	peak			
2	2483.500	37.81	-7.37	30.44	54.00	-23.56	AVG			



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #462

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Bluetooth helmet headset

Mode: TX 2480MHz

Model: KB91S

Manufacturer: Strategic Sports Limited

Polarization: Vertical

Power Source: AC 120V/60Hz

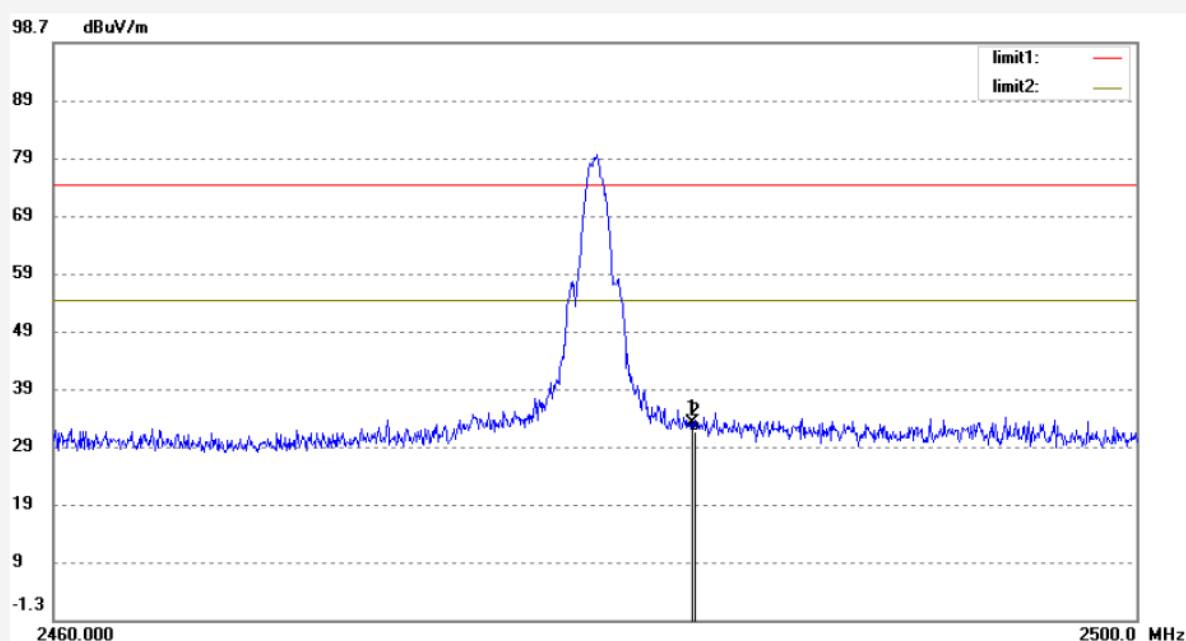
Date: 2012/10/04

Time: 14:50:31

Engineer Signature: alen

Distance: 3m

Note: Report No:ATE20122289

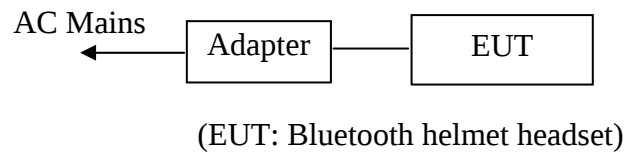


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	40.18	-7.37	32.81	74.00	-41.19	peak			
2	2483.500	38.63	-7.37	31.26	54.00	-22.74	AVG			

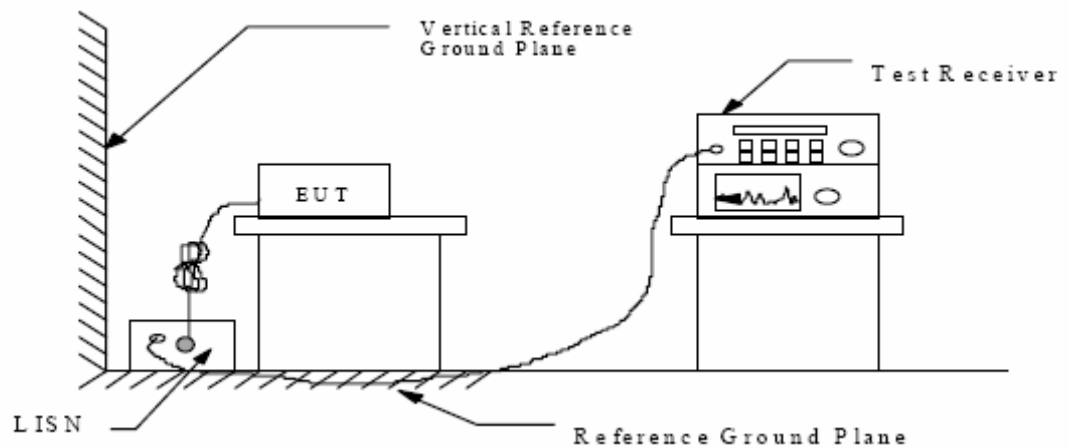
12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

12.1.Block Diagram of Test Setup

12.1.1.Block diagram of connection between the EUT and simulators



12.1.2.Shielding Room Test Setup Diagram



(EUT: Bluetooth helmet headset)

12.2.The Emission Limit

12.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

12.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

12.3.1. Bluetooth helmet headset (EUT)

Model Number : KB91S
Serial Number : N/A
Manufacturer : Strategic Sports Limited

12.4.Operating Condition of EUT

12.4.1.Setup the EUT and simulator as shown as Section 11.1.

12.4.2.Turn on the power of all equipment.

12.4.3.Let the EUT work in TX (Operation) mode measure it.

12.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

The frequency range from 150 kHz to 30MHz is checked.

12.6.Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150 kHz to 30MHz is checked.

Date of Test:	<u>Oct 20, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>Bluetooth helmet headset</u>	Humidity:	<u>50%</u>
Model No.:	<u>KB91S</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>operation</u>	Test Engineer:	<u>Alen</u>

Frequency (MHz)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector	Line
0.473588	38.40	57.00	18.1	QP	Neutral
0.533841	40.10	56.00	15.9	QP	
1.374997	29.60	56.00	26.4	QP	
0.477384	33.60	46.00	12.8	AV	
0.956168	24.90	46.00	21.1	AV	
0.413480	34.40	58.00	23.2	QP	Live
0.474701	40.30	57.00	16.2	QP	
0.533841	42.20	56.00	13.8	QP	
0.475482	35.50	46.00	10.9	AV	
0.533841	29.70	46.00	16.3	AV	
0.952358	24.70	46.00	21.3	AV	

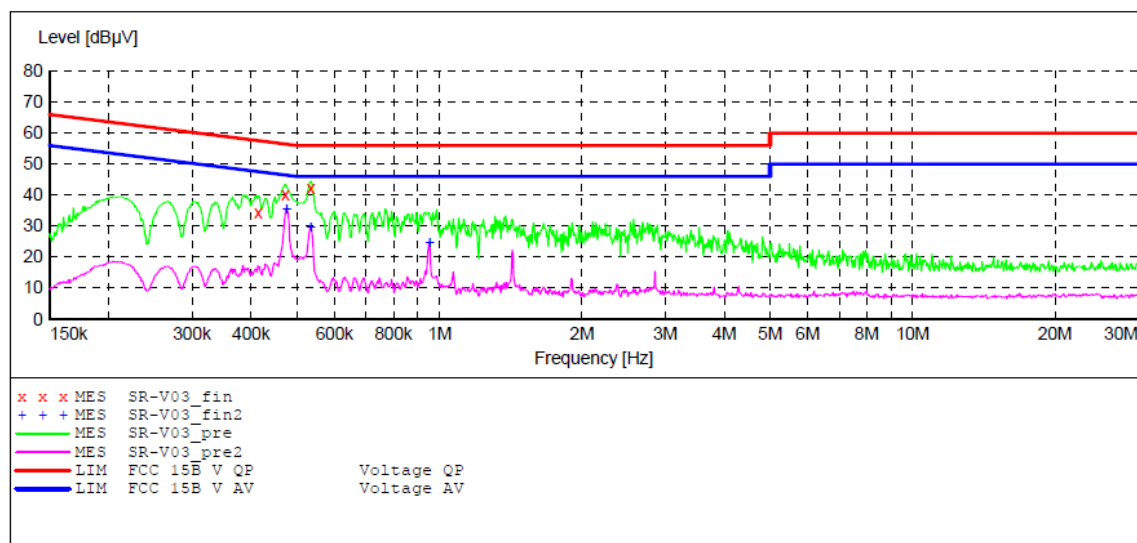
Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Bluetooth helmet headset M/N:KB91S
 Manufacturer: Strategic Sports Limited
 Operating Condition: Operation
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report No:ATE20122289
 Start of Test: 10/20/2012 / 2:05:48PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "SR-V03_fin"**

10/20/2012 2:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.413480	34.40	11.8	58	23.2	QP	L1	GND
0.471701	40.30	12.0	57	16.2	QP	L1	GND
0.533841	42.20	12.0	56	13.8	QP	L1	GND

MEASUREMENT RESULT: "SR-V03_fin2"

10/20/2012 2:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.475482	35.50	12.0	46	10.9	AV	L1	GND
0.533841	29.70	12.0	46	16.3	AV	L1	GND
0.952358	24.70	11.8	46	21.3	AV	L1	GND

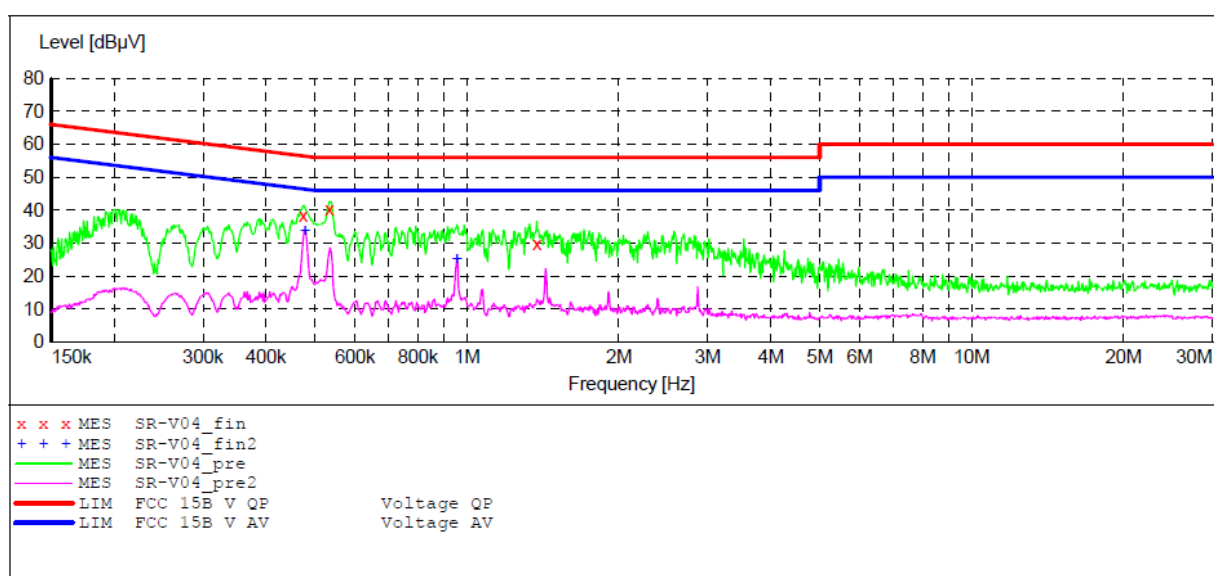
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Bluetooth helmet headset M/N:KB91S
 Manufacturer: Strategic Sports Limited
 Operating Condition: Operation
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report No:ATE20122289
 Start of Test: 10/20/2012 / 2:09:27PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			

**MEASUREMENT RESULT: "SR-V04_fin"**

10/20/2012 2:11PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.473588	38.40	12.0	57	18.1	QP	N	GND
0.533841	40.10	12.0	56	15.9	QP	N	GND
1.374997	29.60	11.8	56	26.4	QP	N	GND

MEASUREMENT RESULT: "SR-V04_fin2"

10/20/2012 2:11PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.477384	33.60	12.0	46	12.8	AV	N	GND
0.956168	24.90	11.8	46	21.1	AV	N	GND

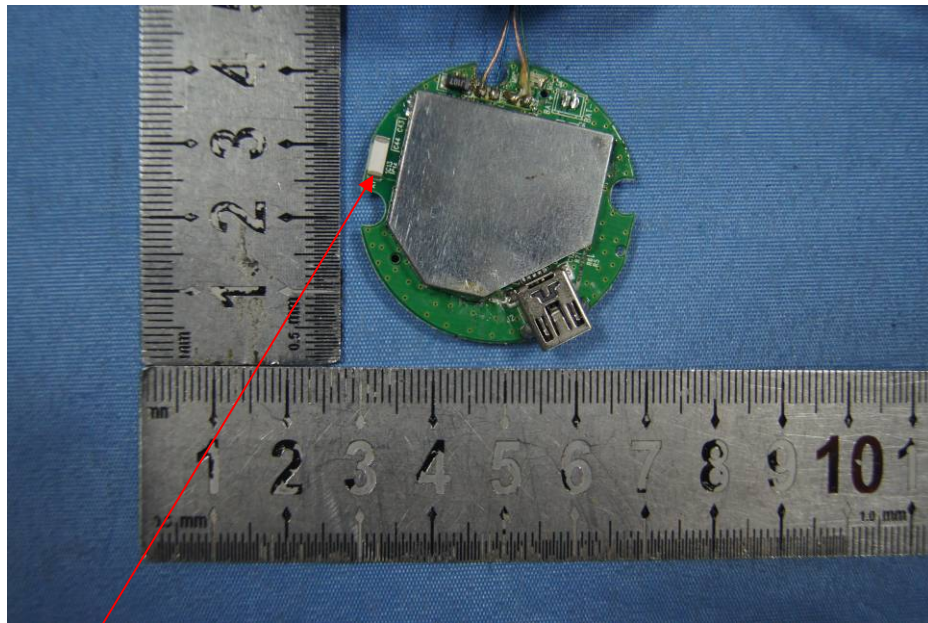
13.ANTENNA REQUIREMENT

13.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

13.2.Antenna Construction

The antenna is PCB Layout antenna, no consideration of replacement. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna