



Test Report

Product Name : Nokia Bluetooth Headset
Model No. : BH-902
FCC ID. : PYAHS-76W

Applicant : Nokia Corporation, Nokia Mobile Phones
Address : Joensuunkatu 7E P.O. Box 86, Salo Fin-24100 Finland

Date of Receipt : 2007/04/18
Issued Date : 2007/05/29
Report No. : 074H058-RFUSP06V01

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : 2007/05/29

Report No. : 074H058-RFUSP06V01



Product Name : Nokia Bluetooth Headset
 Applicant : Nokia Corporation, Nokia Mobile Phones
 Address : Joensuukatu 7E P.O. Box 86, Salo Fin-24100 Finland
 Manufacturer : FU GANG ELECTRONIC (KUNSHAN) CO.,LTD.
 Model No. : BH-902
 FCC ID. : PYAHS-76W
 Rated Voltage : AC 120 V / 60 Hz
 EUT Voltage : AC 120 V / 60 Hz
 Trade Name : NOKIA
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2006
 Test Result : Complied

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Documented By : Sandy Chuang
 (Sandy Chuang)

Tested By : Louis Hsu
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Approved By : Roy Wang
 (Roy Wang)

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1. General Information

1.1. EUT Description

Product Name	Nokia Bluetooth Headset
Trade Name	NOKIA
Model No.	BH-902
Frequency Range	2402~2480MHz
Channel Number	79
Type of Modulation	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Channel Control	Auto
Antenna Type	Micro-chip Antenna
Antenna Gain	1.0811dBi
Hardware Version	B3.2
Software Version	WK16
Mechanics Version	MPT2

Component	
Power Adapter	NOKIA, AC-5U I/P: AC 100-240V, 50-60 Hz, 180mA O/P: DC 5.0V, 800mA Cable Out: Non-Shielded, 1.75m

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00	2402 MHz	Channel 20	2422 MHz	Channel 40	2442 MHz	Channel 60	2462 MHz
Channel 01	2403 MHz	Channel 21	2423 MHz	Channel 41	2443 MHz	Channel 61	2463 MHz
Channel 02	2404 MHz	Channel 22	2424 MHz	Channel 42	2444 MHz	Channel 62	2464 MHz
Channel 03	2405 MHz	Channel 23	2425 MHz	Channel 43	2445 MHz	Channel 63	2465 MHz
Channel 04	2406 MHz	Channel 24	2426 MHz	Channel 44	2446 MHz	Channel 64	2466 MHz
Channel 05	2407 MHz	Channel 25	2427 MHz	Channel 45	2447 MHz	Channel 65	2467 MHz
Channel 06	2408 MHz	Channel 26	2428 MHz	Channel 46	2448 MHz	Channel 66	2468 MHz
Channel 07	2409 MHz	Channel 27	2429 MHz	Channel 47	2449 MHz	Channel 67	2469 MHz
Channel 08	2410 MHz	Channel 28	2430 MHz	Channel 48	2450 MHz	Channel 68	2470 MHz
Channel 09	2411 MHz	Channel 29	2431 MHz	Channel 49	2451 MHz	Channel 69	2471 MHz
Channel 10	2412 MHz	Channel 30	2432 MHz	Channel 50	2452 MHz	Channel 70	2472 MHz
Channel 11	2413 MHz	Channel 31	2433 MHz	Channel 51	2453 MHz	Channel 71	2473 MHz
Channel 12	2414 MHz	Channel 32	2434 MHz	Channel 52	2454 MHz	Channel 72	2474 MHz
Channel 13	2415 MHz	Channel 33	2435 MHz	Channel 53	2455 MHz	Channel 73	2475 MHz
Channel 14	2416 MHz	Channel 34	2436 MHz	Channel 54	2456 MHz	Channel 74	2476 MHz
Channel 15	2417 MHz	Channel 35	2437 MHz	Channel 55	2457 MHz	Channel 75	2477 MHz
Channel 16	2418 MHz	Channel 36	2438 MHz	Channel 56	2458 MHz	Channel 76	2478 MHz
Channel 17	2419 MHz	Channel 37	2439 MHz	Channel 57	2459 MHz	Channel 77	2479 MHz
Channel 18	2420 MHz	Channel 38	2440 MHz	Channel 58	2460 MHz	Channel 78	2480 MHz
Channel 19	2421 MHz	Channel 39	2441 MHz	Channel 59	2461 MHz		

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals. Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. The transmitter is presented with a continuous data stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its 79 channels and over the minimum number of hopping channels (75 channels)

Pseudorandom Frequency Hopping Sequence that describes how the hopping sequence is generated. Provide an example of the hopping sequence channels, in order to demonstrate that the sequence meets the requirement specified in the definition of a frequency hopping spread spectrum system. In Bluetooth, interference from other Bluetooth piconets is minimal, because each piconet uses its own pseudo-random frequency-hopping pattern. If two co-located piconets are active the probability of a collision is 1/79. The probability of a collision increases linearly with the number of co-located active piconets.

Equal Hopping Frequency Use that describes how each individual EUT meets the requirement that each of its hopping channels is used equally on average (e.g., that each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event).

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Note:

1. This device is a Nokia Bluetooth Headset included a 2.4GHz receiving function, and 2.4GHz transmitting function.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regards to the frequency band operation; the lowest 、 middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function normal was measured and made a test report that the report number is 074H058-RFUSP01V02 under Declaration of Conformity.

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

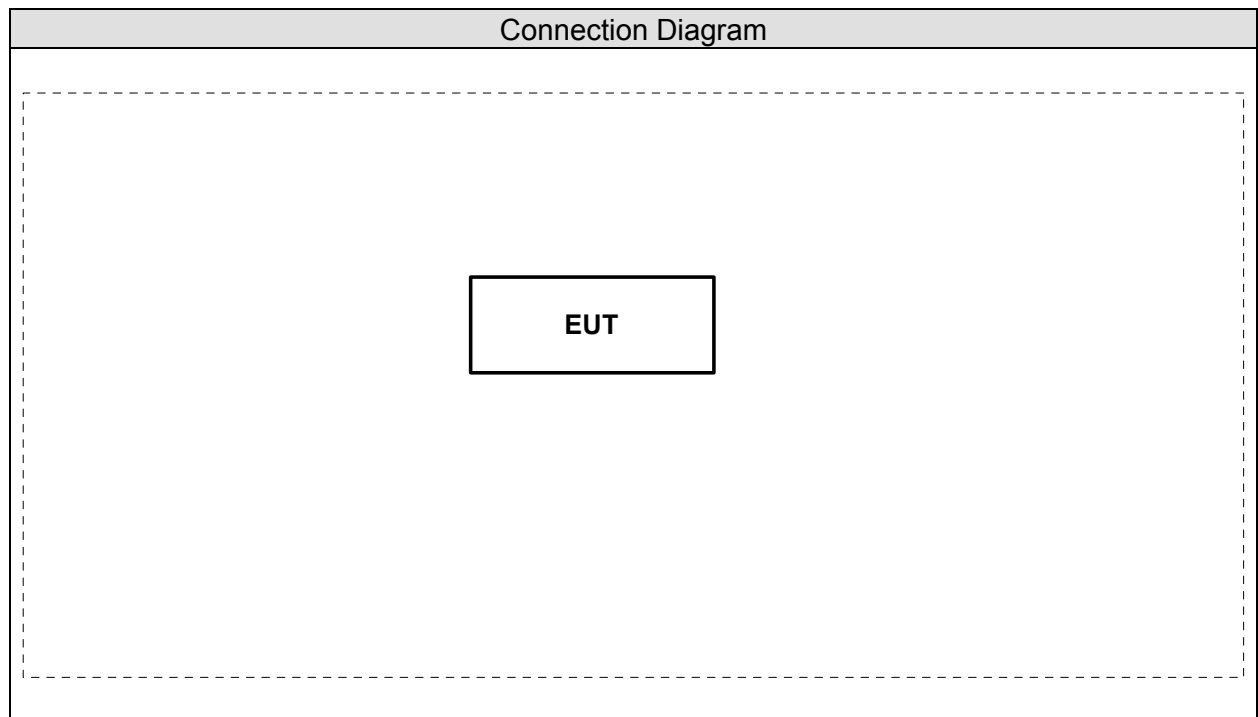
Pre-Test Mode	
EMI	Mode 1: Transmit
Final Test Mode	
EMI	Mode 1: Transmit

1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

N/A

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	Verify the model operation.
4	Repeat the above procedure (3) to (4).

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Channel Of Number (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Channel Separation (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	58
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Dwell Time (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	58
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	59
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	58
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description:

January 24, 2005 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520



Accredited by CNLA
Accreditation Number: 1313
Effective through: September 27, 2007



1313
ILAC MRA

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2007



Site Name: Quietek Corporation

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TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Conducted Emission

2.1. Test Equipment

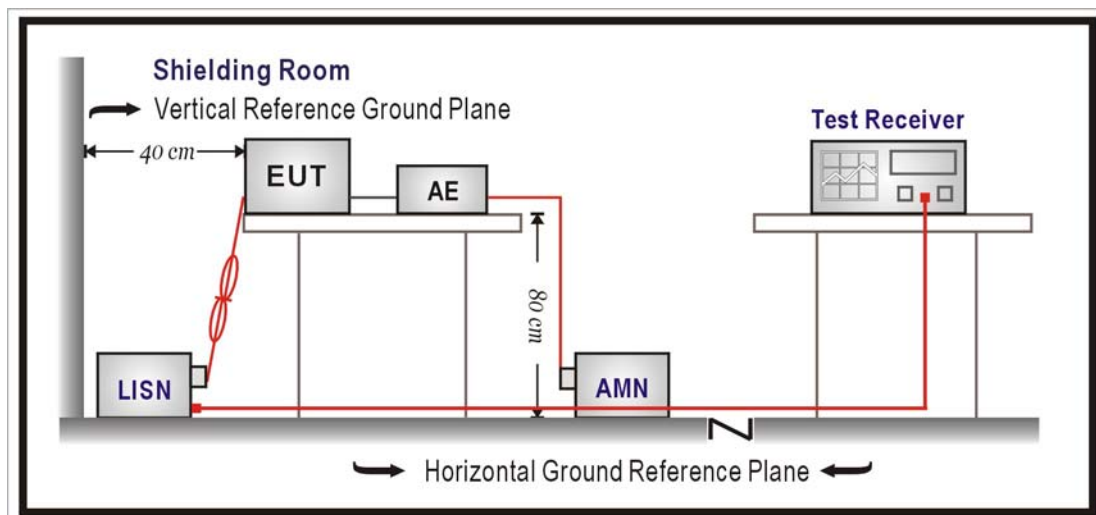
The following test equipment are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
4-Wire ISN	R & S	ENY 41	837032/001	2007/04/15
Double 2-Wire ISN	R & S	ENY 22	835354/008	2007/04/15
LISN	R & S	ESH3-Z5	836679/013	2007/01/02
LISN	R&S	ESH3-Z5	836679/022	2006/07/17
Pulse Limiter	R & S	ESH3-Z2	100411	2006/11/16
Test Receiver	R & S	ESCS 30	100149	2006/11/15

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

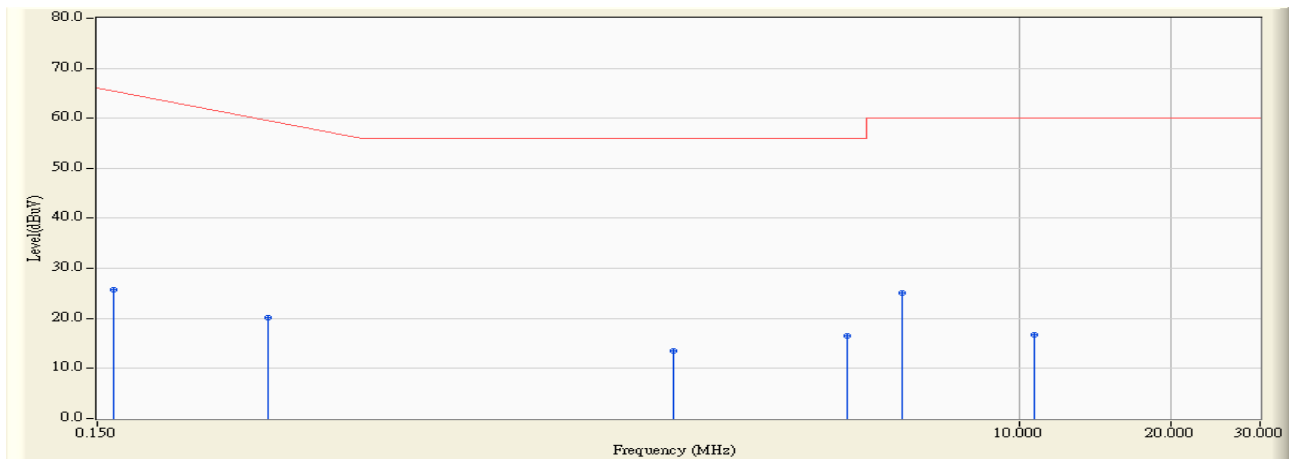
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.) Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2006

2.6. Test Result

Site : QuieTek Shielding Room3	Time : 2007/05/27 - 17:56
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Nokia Bluetooth Headset	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : TX

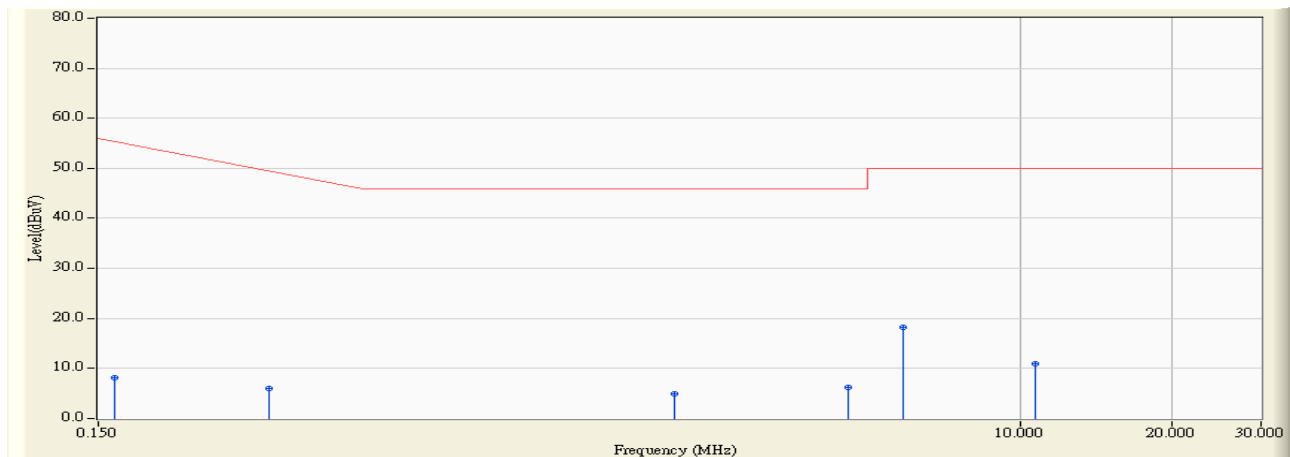


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	0.141	25.560	25.701	-39.956	65.657	QUASIPeAK
2		0.327	0.186	19.990	20.176	-40.767	60.943	QUASIPeAK
3		2.076	0.390	13.090	13.480	-42.520	56.000	QUASIPeAK
4		4.564	0.460	15.970	16.430	-39.570	56.000	QUASIPeAK
5	*	5.857	0.520	24.480	25.000	-35.000	60.000	QUASIPeAK
6		10.720	0.740	15.980	16.720	-43.280	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room3	Time : 2007/05/27 - 17:56
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Nokia Bluetooth Headset	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : TX

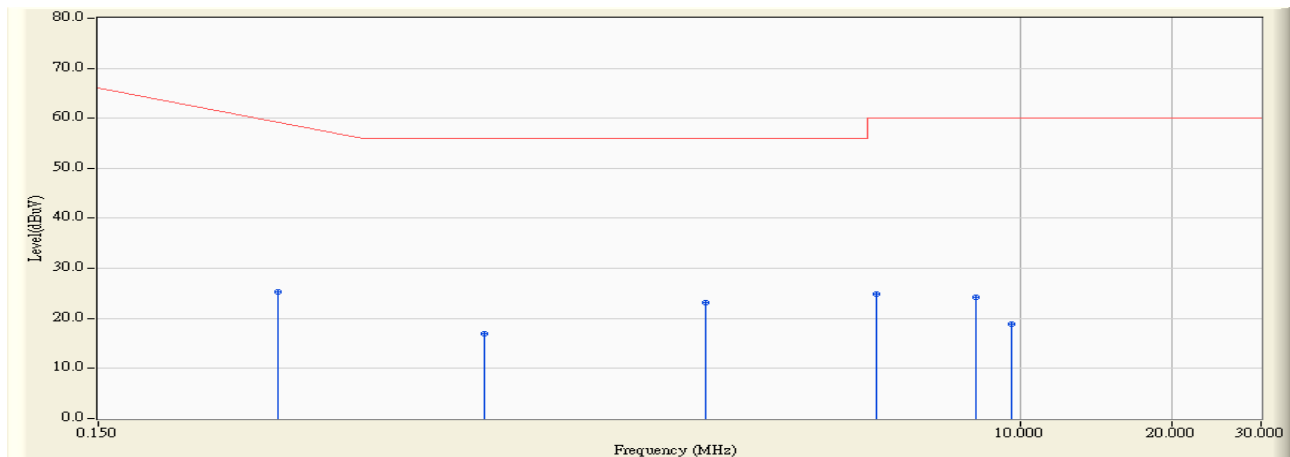


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	0.141	7.940	8.081	-47.576	55.657	AVERAGE
2		0.327	0.186	5.890	6.076	-44.867	50.943	AVERAGE
3		2.076	0.390	4.590	4.980	-41.020	46.000	AVERAGE
4		4.564	0.460	5.860	6.320	-39.680	46.000	AVERAGE
5	*	5.857	0.520	17.610	18.130	-31.870	50.000	AVERAGE
6		10.720	0.740	10.280	11.020	-38.980	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
- 3.Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room3	Time : 2007/05/27 - 17:51
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Nokia Bluetooth Headset	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : TX

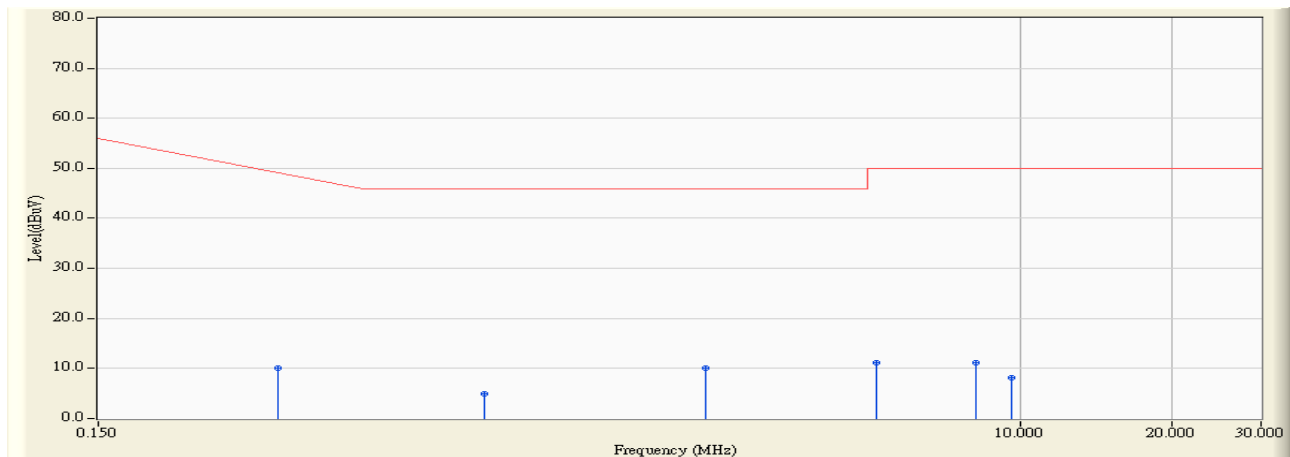


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.341	0.190	25.140	25.330	-35.213	60.543	QUASIPeAK
2		0.869	0.227	16.660	16.887	-39.113	56.000	QUASIPeAK
3	*	2.388	0.400	22.810	23.210	-32.790	56.000	QUASIPeAK
4		5.189	0.470	24.310	24.780	-35.220	60.000	QUASIPeAK
5		8.166	0.570	23.730	24.300	-35.700	60.000	QUASIPeAK
6		9.619	0.610	18.350	18.960	-41.040	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : QuieTek Shielding Room3	Time : 2007/05/27 - 17:51
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Nokia Bluetooth Headset	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : TX



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.341	0.190	9.900	10.090	-40.453	50.543	AVERAGE
2		0.869	0.227	4.730	4.957	-41.043	46.000	AVERAGE
3	*	2.388	0.400	9.630	10.030	-35.970	46.000	AVERAGE
4		5.189	0.470	10.650	11.120	-38.880	50.000	AVERAGE
5		8.166	0.570	10.690	11.260	-38.740	50.000	AVERAGE
6		9.619	0.610	7.580	8.190	-41.810	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

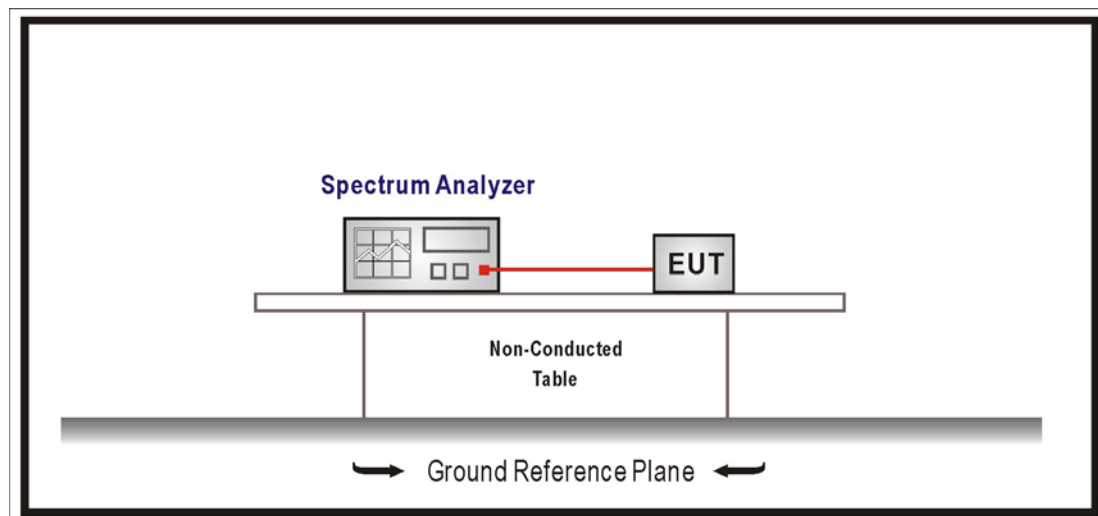
3.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R&S	FSP/ 100005	Oct., 2006
2	No.1 OATS			Sep., 2006

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: 1 Watt for systems employing at least 50 hopping channels; and, 0.25 Watts for systems employing less than 50 hopping channels.

For frequency hopping systems in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1Watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 Watt.

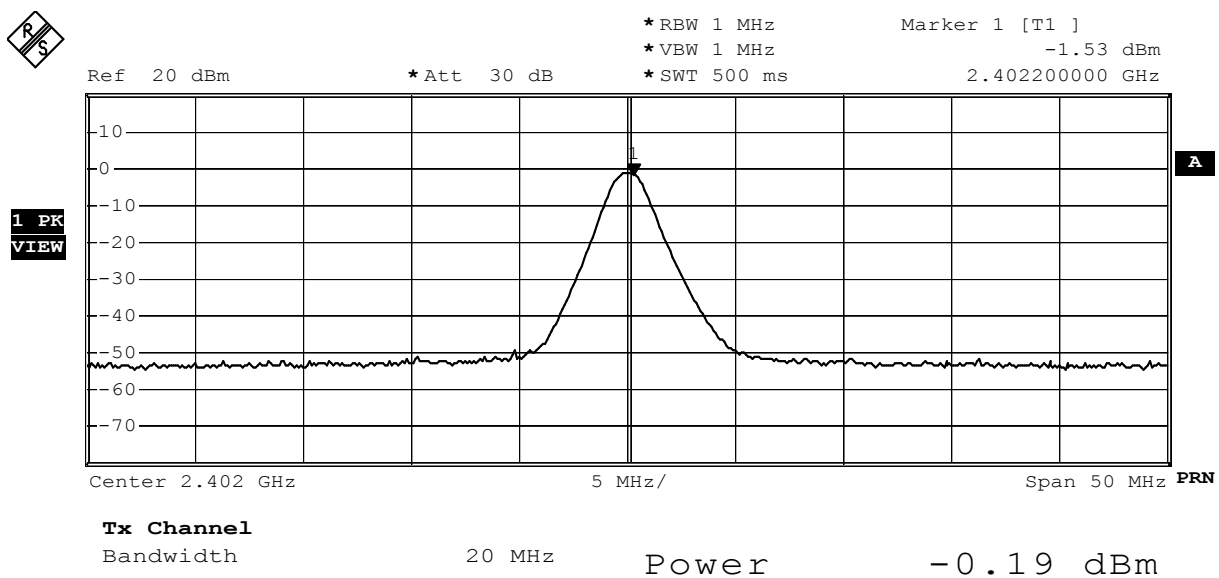
3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

3.5. Test Result

Product	Nokia Bluetooth Headset		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402.00	-0.19	1Watt = 30 dBm	Pass
39	2441.00	0.97	1Watt= 30 dBm	Pass
78	2480.00	1.48	1Watt= 30 dBm	Pass



Date: 24.MAY.2007 03:59:13



A



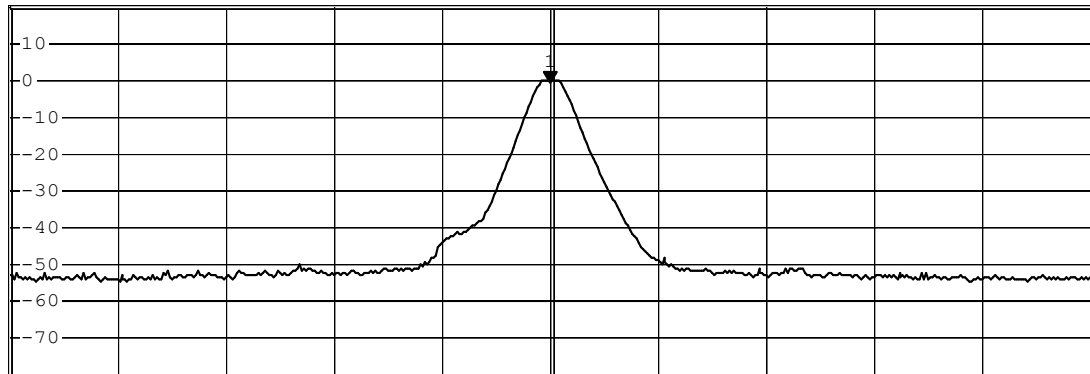
*RBW 1 MHz
*VBW 1 MHz
*SWT 500 ms

Marker 1 [T1]
0.11 dBm
2.479900000 GHz

Ref 20 dBm

*Att 30 dB

1 PK
VIEW



Center 2.48 GHz

5 MHz/

Span 50 MHz PRN

Tx Channel

Bandwidth

20 MHz

Power

1.48 dBm

Date: 24.MAY.2007 03:57:44

4. Radiated Emission

4.1. Test Equipment

The following test equipment are used during the test:

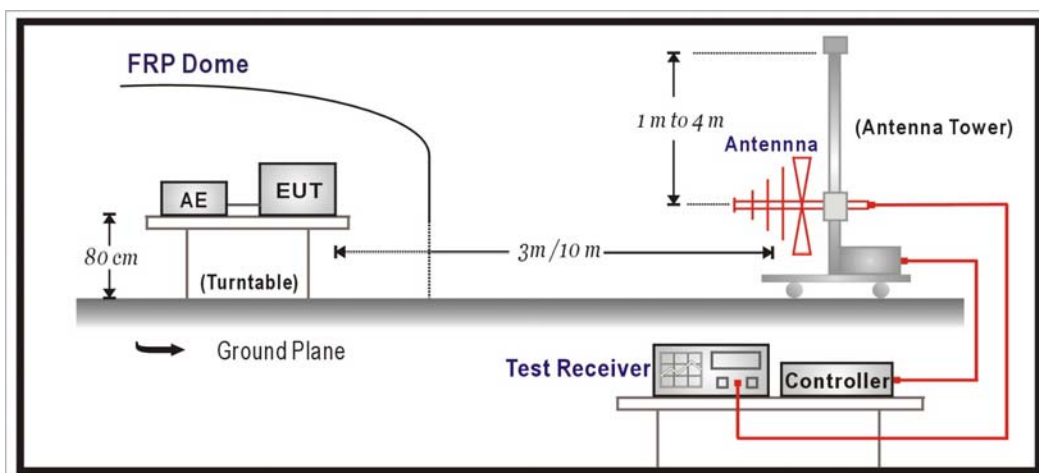
Radiated Emission / Site1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2895	2006/09/03
Horn Antenna	Electro Metrics	EM-6961	103325	2007/03/15
Pre-Amplifier	HP	8449B	3008A01123	2006/11/15
Pre-Amplifier	Quietek	AP-025C	N/A	N/A
Spectrum Analyzer	R & S	FSP40	100005	2006/08/25
Spectrum Analyzer	Advantest	R3162	120300649	2006/11/24
Test Receiver	R & S	ESCS 30	825442/017	2007/02/13

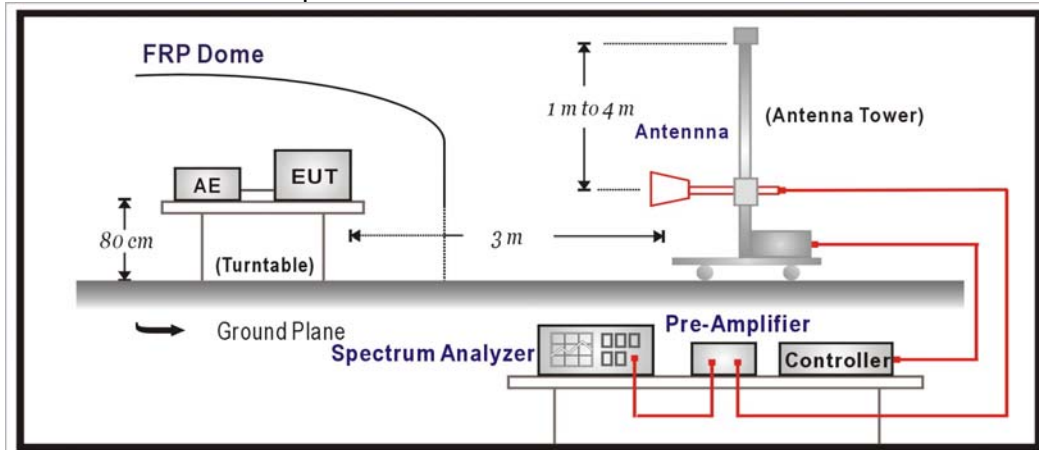
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks :
1. RF Voltage (dBuV) = $20 \log$ RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

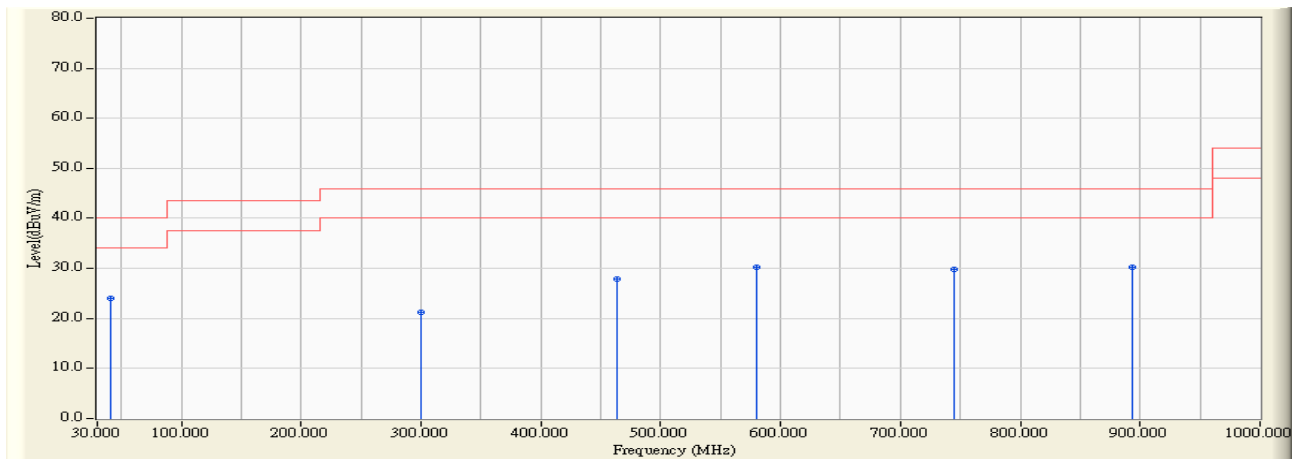
4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

4.6. Test Result

30MHz-1GHz Spurious:

Site : Site 1	Time : 2007/05/23 - 14:33
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Nokia Bluetooth Headset	Probe : FCC_RF_30-1G(200605) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX

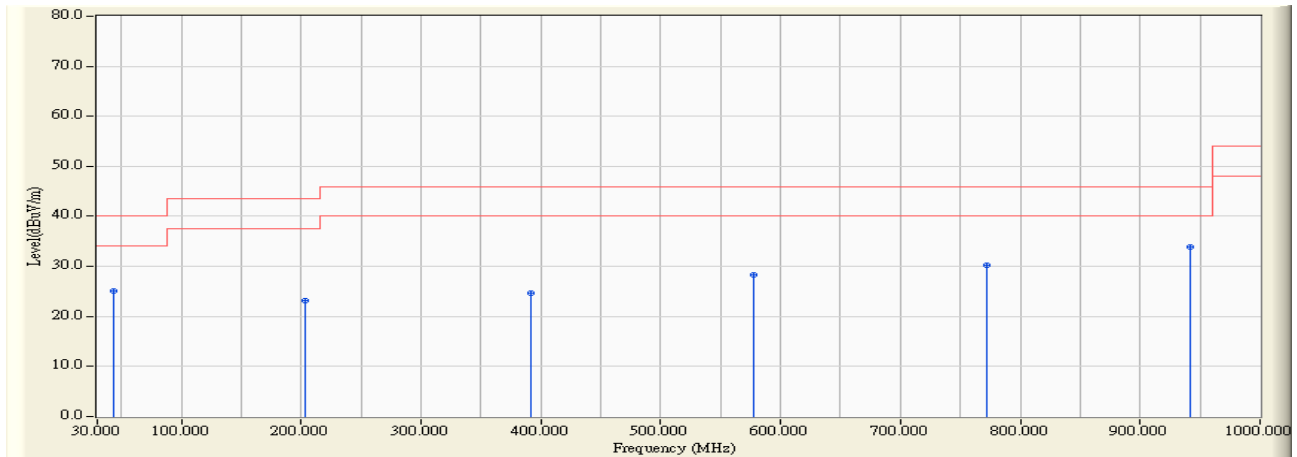


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		41.663	-1.896	25.979	24.083	-15.917	40.000	Quasi-Peak
2		300.200	-3.511	24.774	21.263	-24.737	46.000	Quasi-Peak
3		463.487	3.239	24.727	27.966	-18.034	46.000	Quasi-Peak
4		580.120	5.369	24.784	30.153	-15.847	46.000	Quasi-Peak
5		745.351	4.188	25.660	29.848	-16.152	46.000	Quasi-Peak
6	*	893.086	4.837	25.355	30.192	-15.808	46.000	Quasi-Peak

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : Site 1	Time : 2007/05/23 - 14:34
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : Nokia Bluetooth Headset	Probe : FCC_RF_30-1G(200605) - VERTICAL
Power : AC 120V/60Hz	Note : TX



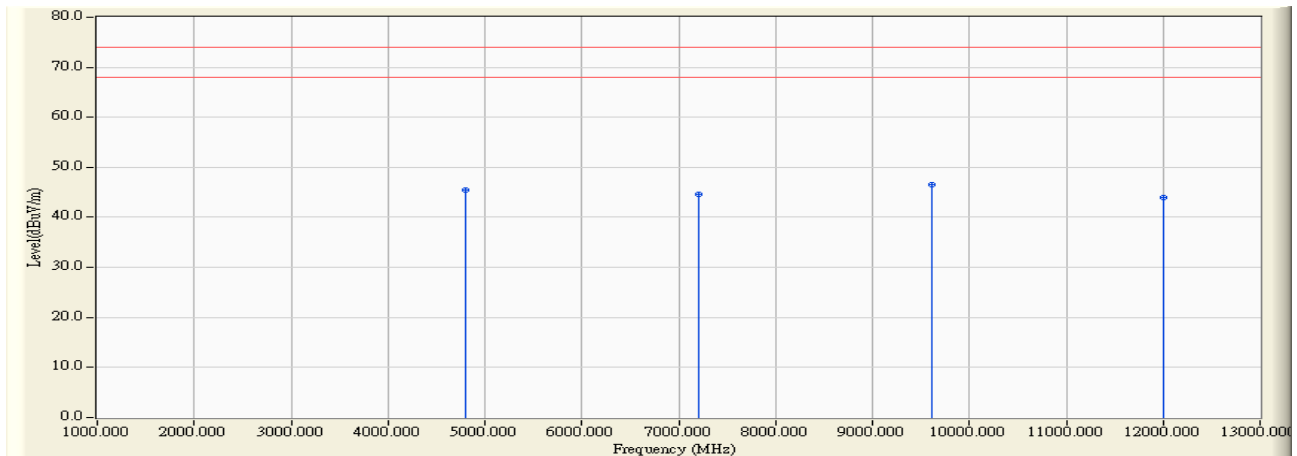
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		43.607	-1.227	26.258	25.031	-14.969	40.000	Quasi-Peak
2		203.006	-3.127	26.297	23.170	-20.330	43.500	Quasi-Peak
3		391.563	-0.523	25.201	24.678	-21.322	46.000	Quasi-Peak
4		578.176	4.216	24.035	28.251	-17.749	46.000	Quasi-Peak
5		772.565	5.725	24.603	30.328	-15.672	46.000	Quasi-Peak
6	*	941.683	8.727	25.097	33.824	-12.176	46.000	Quasi-Peak

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Harmonic & Spurious:

Site : Site 1	Time : 2007/05/23 - 08:20
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Nokia Bluetooth Headset	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-2402

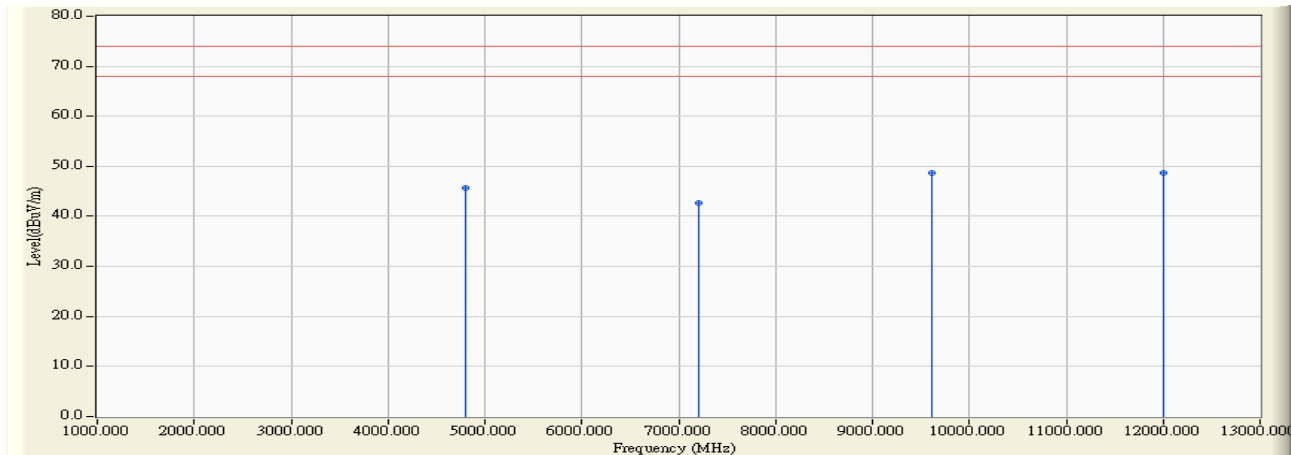


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4804.140	3.595	41.800	45.395	-28.605	74.000	54.000	PEAK
2		7205.970	8.691	35.840	44.531	-29.469	74.000	54.000	PEAK
3	*	9608.040	12.690	33.870	46.560	-27.440	74.000	54.000	PEAK
4		12010.000	11.026	32.980	44.006	-29.994	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/05/23 - 08:45
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Nokia Bluetooth Headset	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-2402

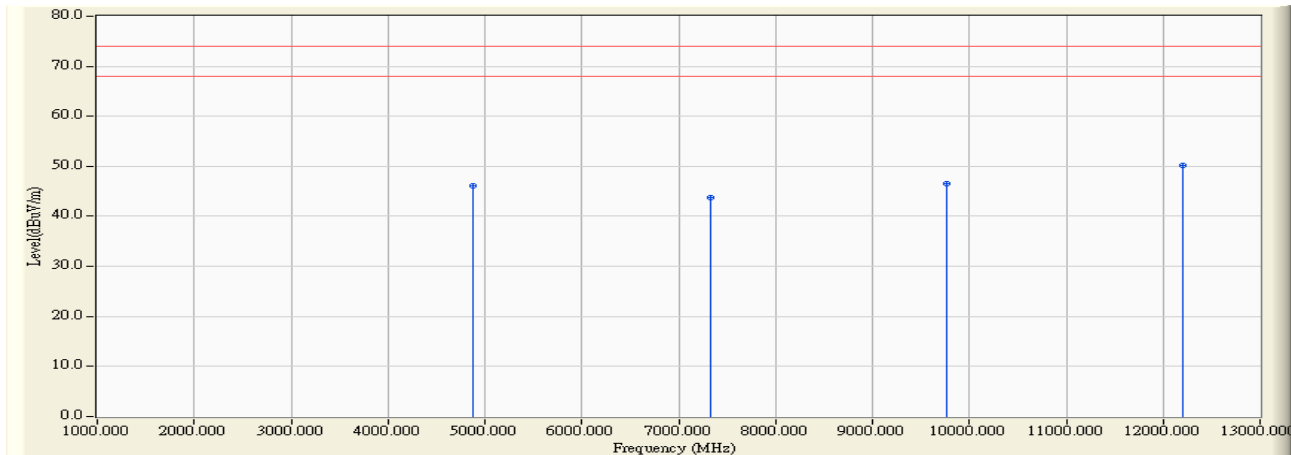


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4803.780	1.811	43.900	45.710	-28.290	74.000	54.000	PEAK
2		7206.060	8.635	34.070	42.705	-31.295	74.000	54.000	PEAK
3	*	9608.020	14.677	34.050	48.727	-25.273	74.000	54.000	PEAK
4		12010.000	16.608	32.070	48.678	-25.322	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/05/23 - 08:50
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Nokia Bluetooth Headset	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-2441

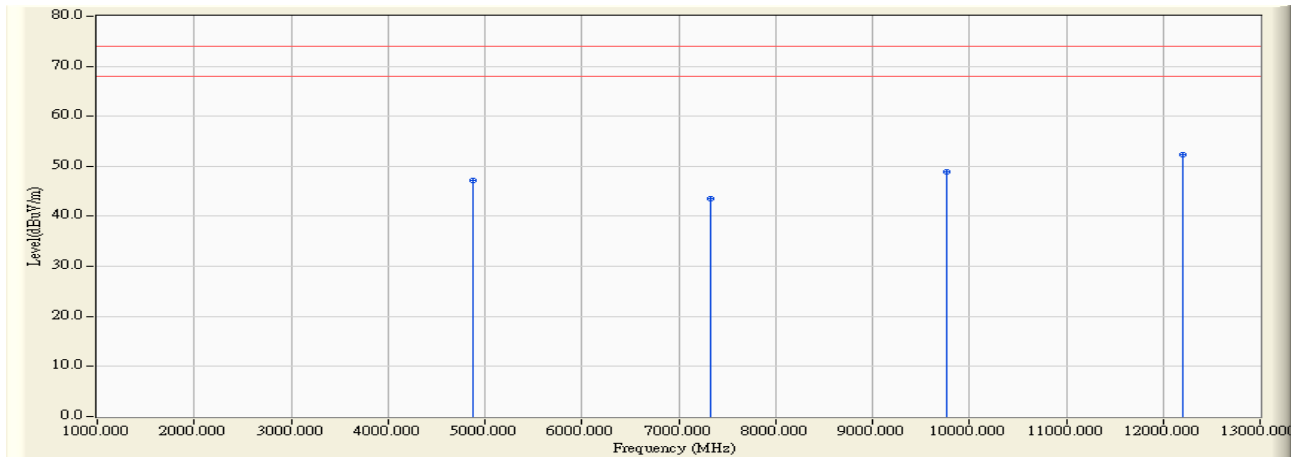


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4881.630	4.140	41.960	46.100	-27.900	74.000	54.000	PEAK
2		7323.060	8.859	34.910	43.769	-30.231	74.000	54.000	PEAK
3		9764.060	13.218	33.320	46.538	-27.462	74.000	54.000	PEAK
4	*	12204.990	18.112	32.160	50.272	-23.728	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/05/23 - 08:55
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Nokia Bluetooth Headset	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-2441

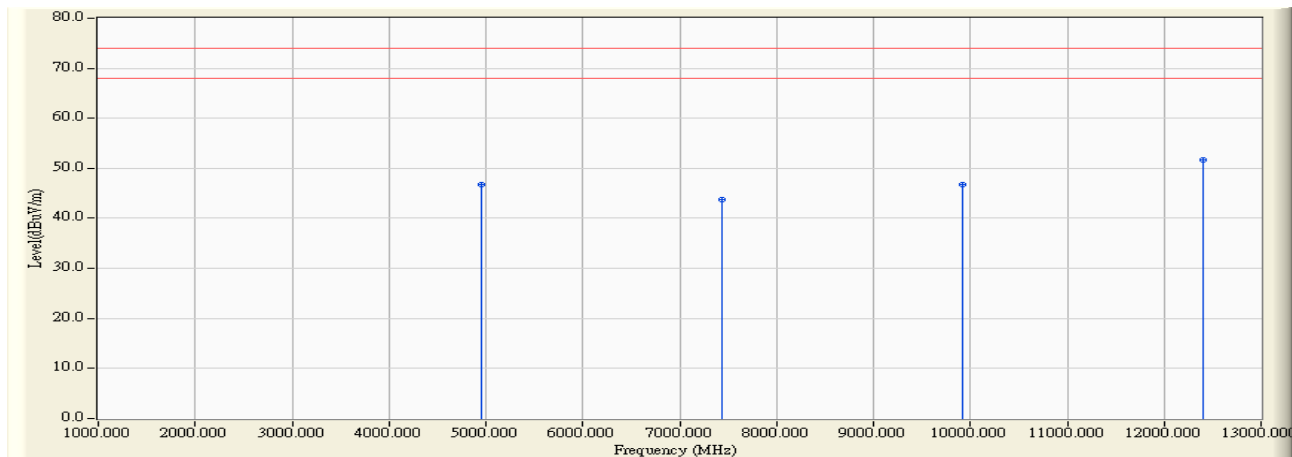


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4881.760	2.500	44.760	47.261	-26.739	74.000	54.000	PEAK
2		7323.010	8.859	34.760	43.619	-30.381	74.000	54.000	PEAK
3		9764.020	15.218	33.650	48.868	-25.132	74.000	54.000	PEAK
4	*	12205.020	19.567	32.660	52.227	-21.773	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/05/23 - 09:04
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Nokia Bluetooth Headset	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : TX-2480

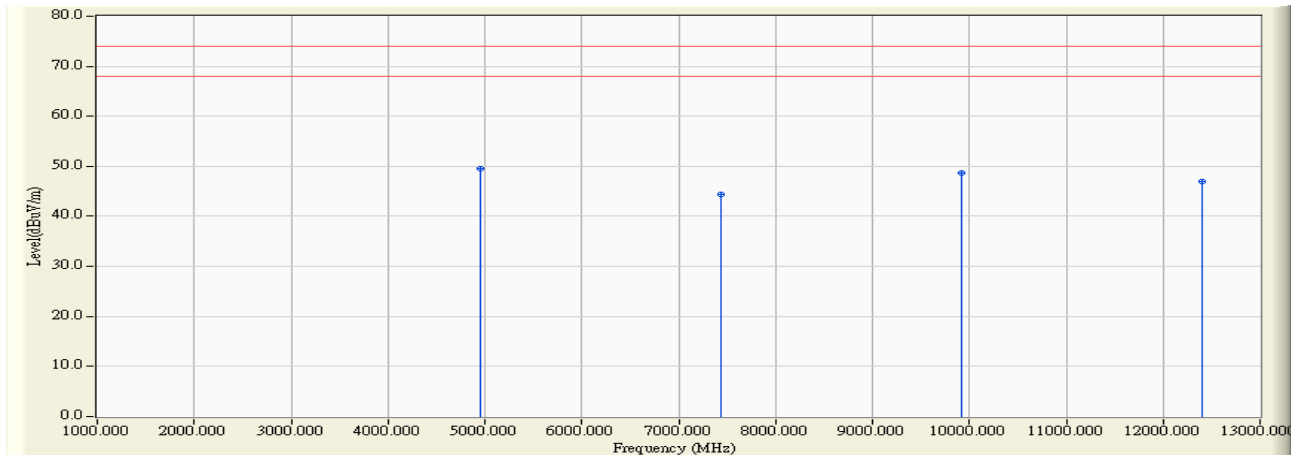


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4960.170	4.401	42.450	46.850	-27.150	74.000	54.000	PEAK
2		7440.040	9.017	34.680	43.697	-30.303	74.000	54.000	PEAK
3		9920.040	14.540	32.170	46.710	-27.290	74.000	54.000	PEAK
4	*	12400.010	20.663	31.130	51.793	-22.207	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	Time : 2007/05/23 - 09:23
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : Nokia Bluetooth Headset	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : TX-2480



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4959.590	2.917	46.650	49.568	-24.432	74.000	54.000	PEAK
2		7439.990	9.016	35.450	44.466	-29.534	74.000	54.000	PEAK
3		9920.010	15.340	33.240	48.580	-25.420	74.000	54.000	PEAK
4		12399.900	16.167	30.820	46.987	-27.013	74.000	54.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

5. Band Edge

5.1. Test Equipment

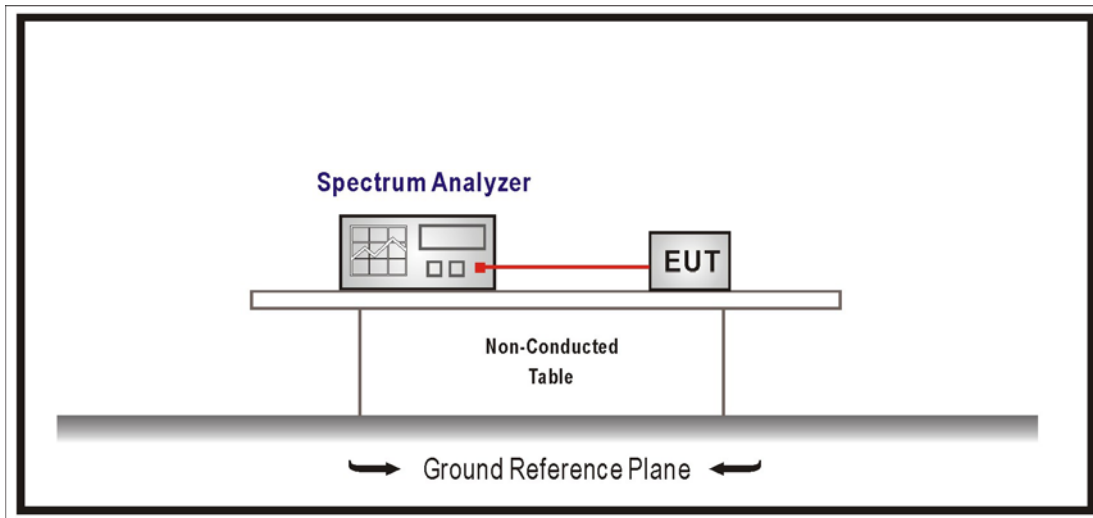
The following test equipment are used during the test:

RF Conducted Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer		R & S	FSP / 100561	Mar., 2007
2	No.1 OATS				Sep., 2006
RF Radiated Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2006
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2007
3		Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2006
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2006
5		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2006
6	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2006
7	No.1 OATS				Sep., 2006

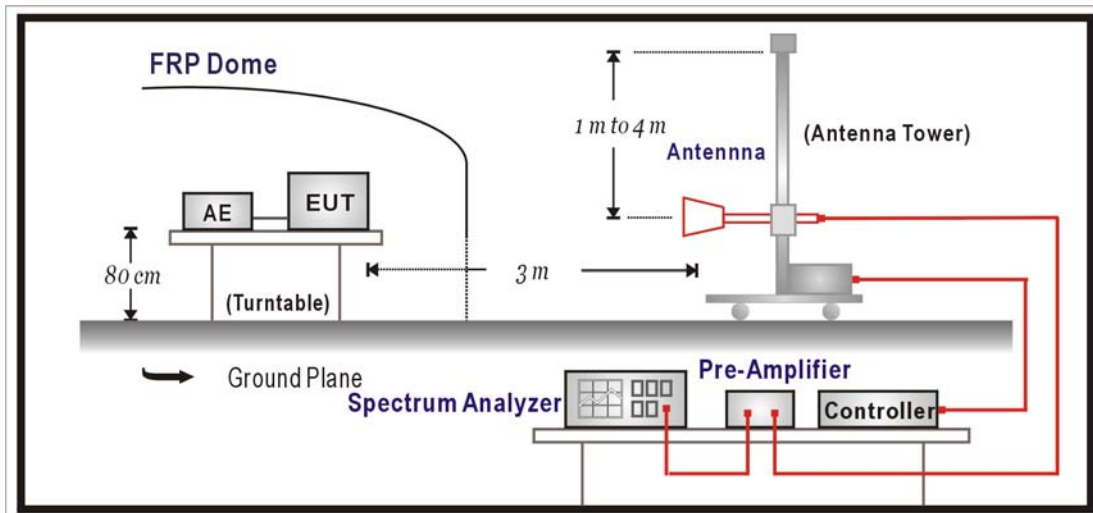
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. 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) (see Section 15.205(c)).

5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

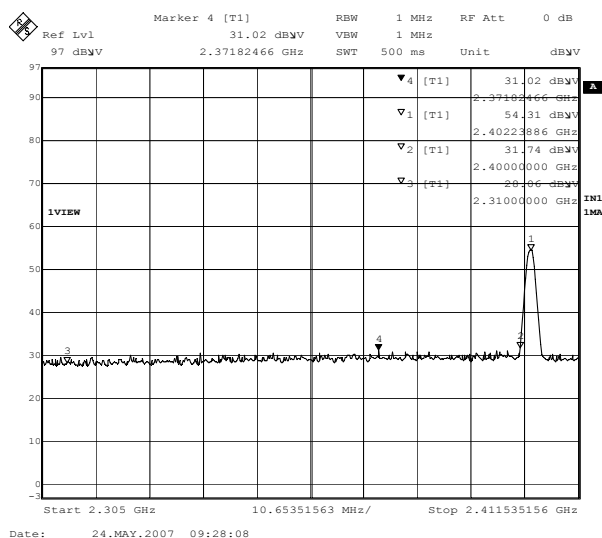
5.6. Test Result

Product	Nokia Bluetooth Headset		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

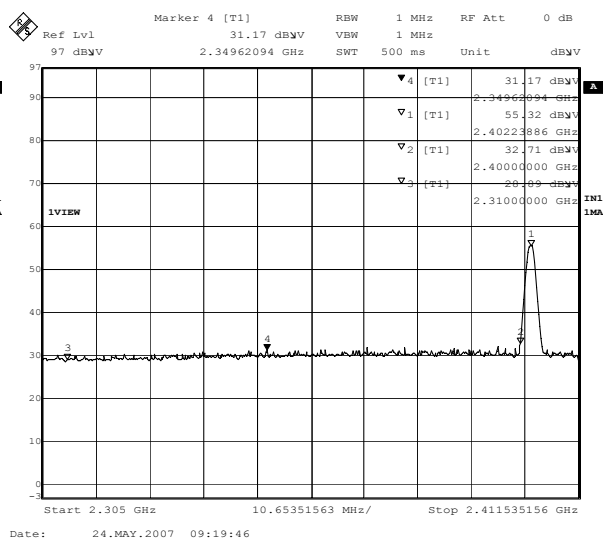
RF Radiated Measurement: (Peak Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00(Horizontal)	2371.820	31.020	24.415	4.497	0.00	59.932	74.000	54.000	Pass
00(Vertical)	2349.620	31.170	22.749	4.478	0.00	58.397	74.000	54.000	Pass

Horizontal



Vertical



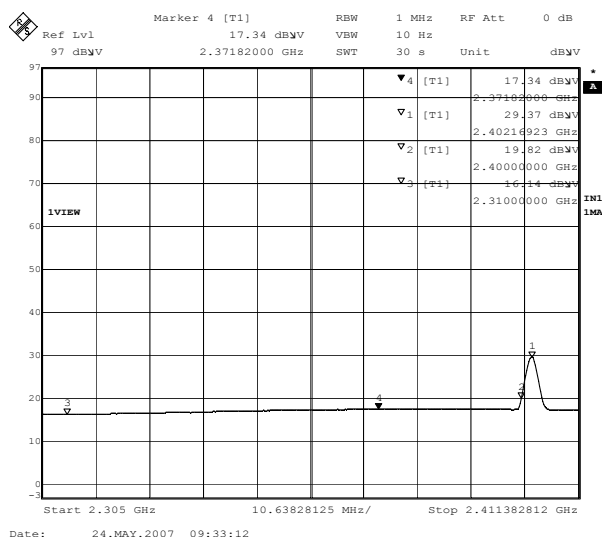
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	Nokia Bluetooth Headset		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

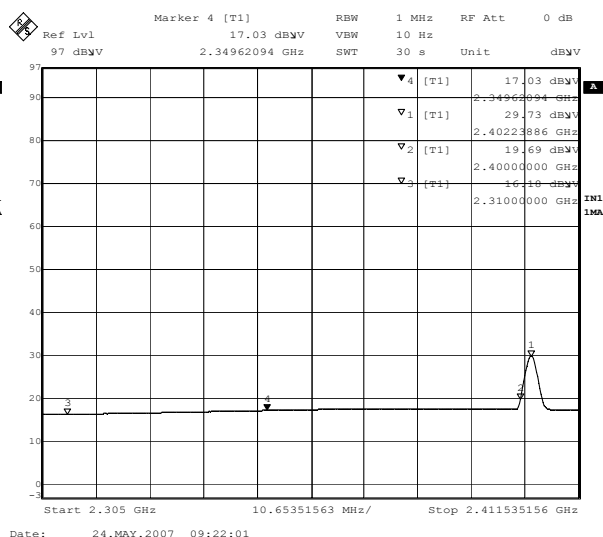
RF Radiated Measurement: (Average Detector)

Channel No.	Frequency (MHz)	Reading Level (dBUV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBUV/m)	Peak Limit (dBUV/m)	Average Limit (dBUV/m)	Result
00(Horizontal)	2371.820	17.340	24.415	4.497	0.00	46.252	74.000	54.000	Pass
00(Vertical)	2349.620	17.030	22.749	4.478	0.00	44.257	74.000	54.000	Pass

Horizontal



Vertical



Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

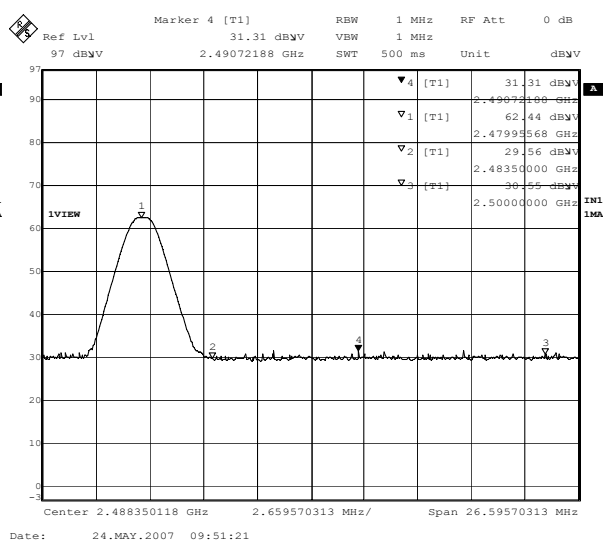
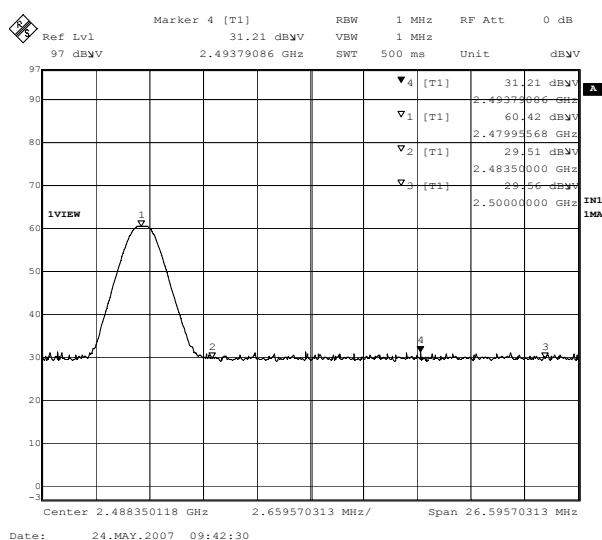
Product	Nokia Bluetooth Headset		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

RF Radiated Measurement: (Peak Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78(Horizontal)	2493.790	31.210	24.745	4.579	0.00	60.533	74.000	54.000	Pass
78(Vertical)	2490.720	31.310	23.138	4.577	0.00	59.024	74.000	54.000	Pass

Horizontal

Vertical



Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

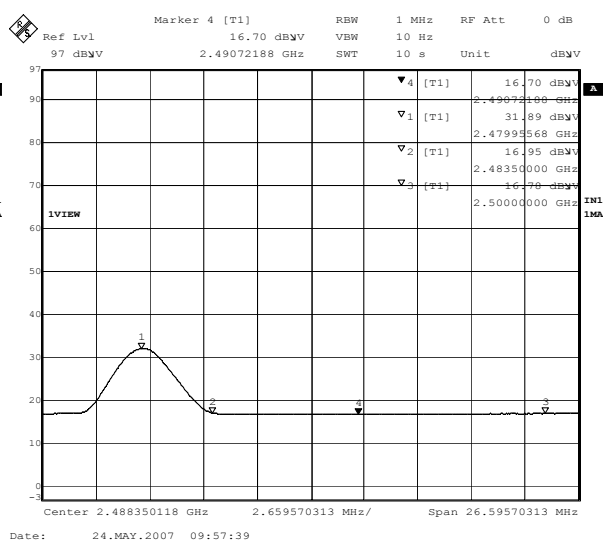
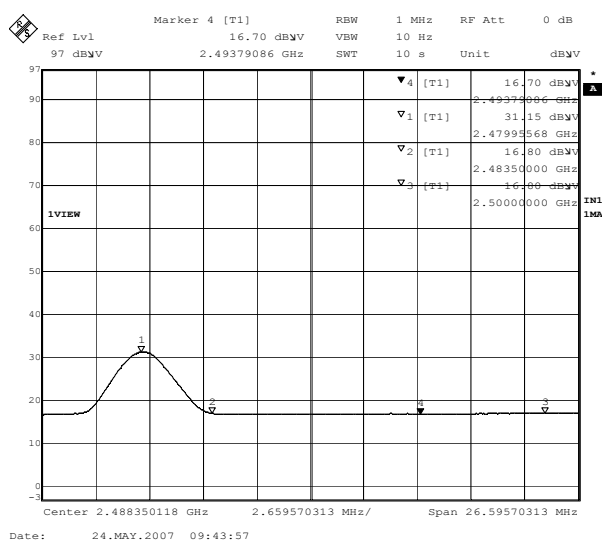
Product	Nokia Bluetooth Headset		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

RF Radiated Measurement: (Average Detector)

Channel No.	Frequency (MHz)	Reading Level (dBUV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBUV/m)	Peak Limit (dBUV/m)	Average Limit (dBUV/m)	Result
78(Horizontal)	2493.790	16.700	24.745	4.579	0.00	46.023	74.000	54.000	Pass
78(Vertical)	2490.720	16.700	23.138	4.577	0.00	44.414	74.000	54.000	Pass

Horizontal

Vertical



Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

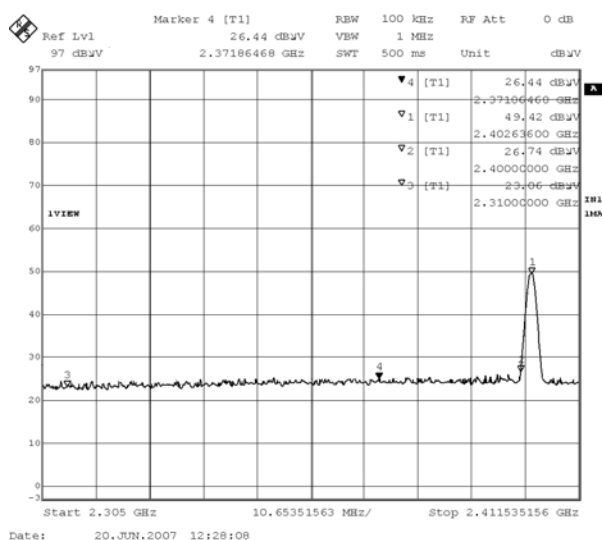
5.6. Test Result

Product	Nokia Bluetooth Headset		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

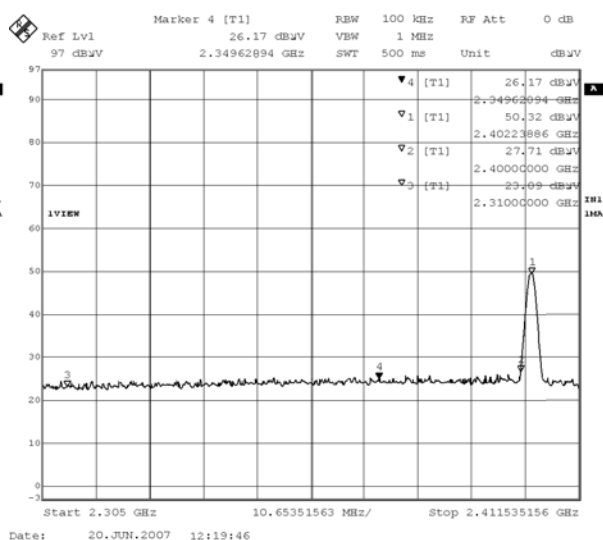
RF Radiated Measurement: (Peak Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00(Horizontal)	2371.864	26.440	24.415	4.497	0.00	55.352	74.000	54.000	Pass
00(Vertical)	2349.628	26.170	22.749	4.478	0.00	53.397	74.000	54.000	Pass

Horizontal



Vertical



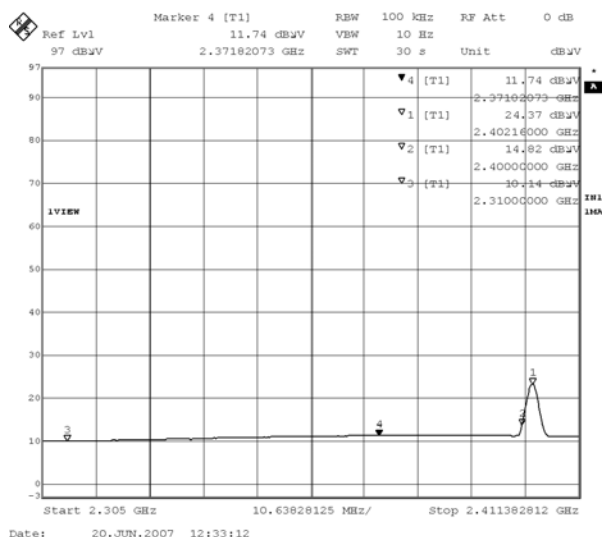
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	Nokia Bluetooth Headset		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

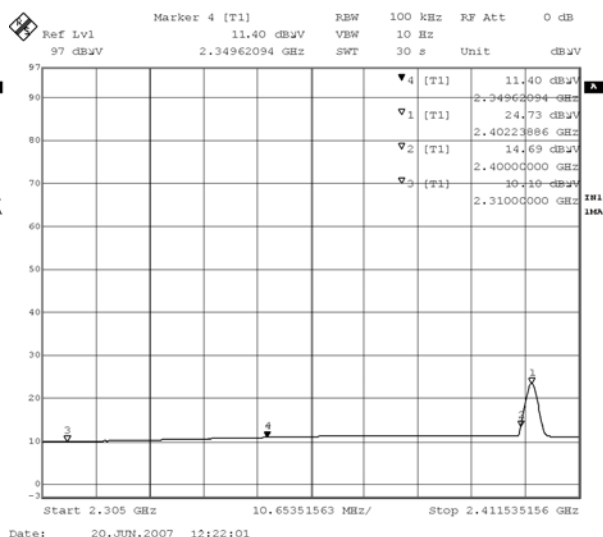
RF Radiated Measurement: (Average Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00(Horizontal)	2371.820	11.740	24.415	4.497	0.00	40.652	74.000	54.000	Pass
00(Vertical)	2349.620	11.400	22.749	4.478	0.00	38.627	74.000	54.000	Pass

Horizontal



Vertical



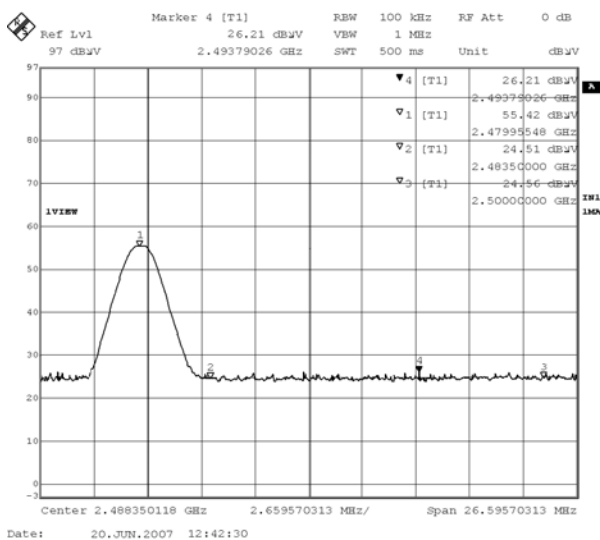
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	Nokia Bluetooth Headset		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

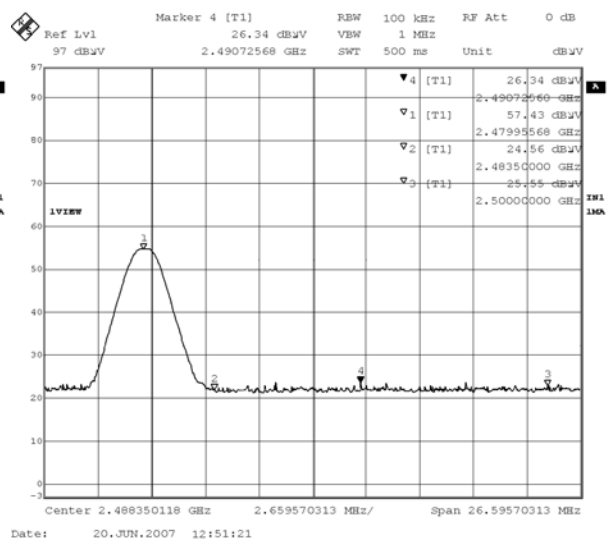
RF Radiated Measurement: (Peak Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78(Horizontal)	2493.790	26.210	24.745	4.579	0.00	55.533	74.000	54.000	Pass
78(Vertical)	2490.720	26.340	23.138	4.577	0.00	54.054	74.000	54.000	Pass

Horizontal



Vertical



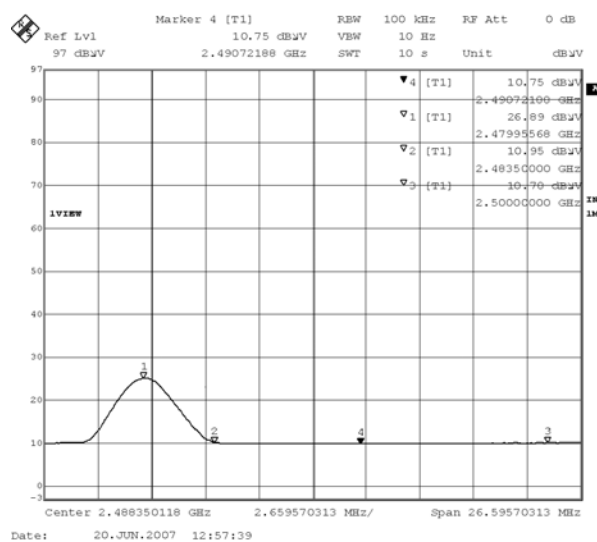
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	Nokia Bluetooth Headset		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

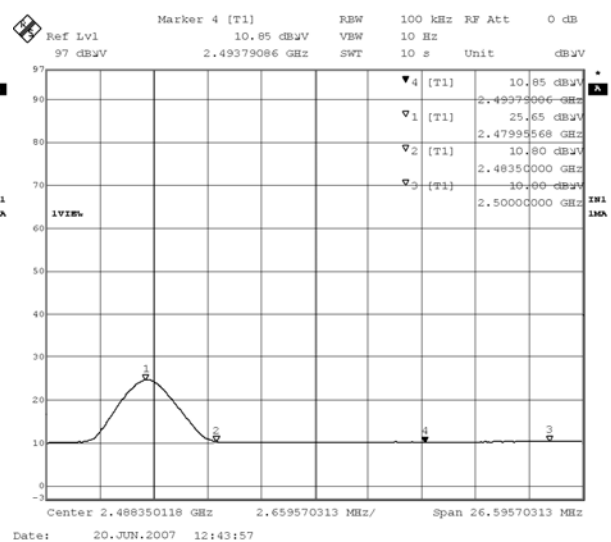
RF Radiated Measurement: (Average Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78(Horizontal)	2490.721	10.750	24.745	4.579	0.00	40.073	74.000	54.000	Pass
78(Vertical)	2493.790	10.850	23.138	4.577	0.00	38.564	74.000	54.000	Pass

Horizontal



Vertical



Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

6. Channel of Number

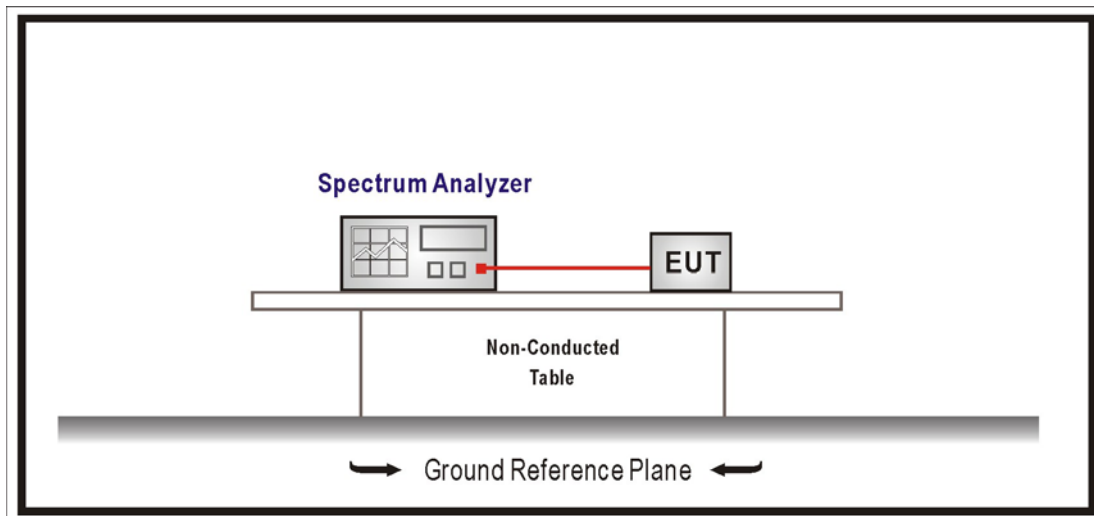
6.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

For frequency hopping systems operating in the 2400-2483.5 MHz bands, which use fewer than 75 hopping frequencies, may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels are used.

For frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies.

6.4. Test Specification

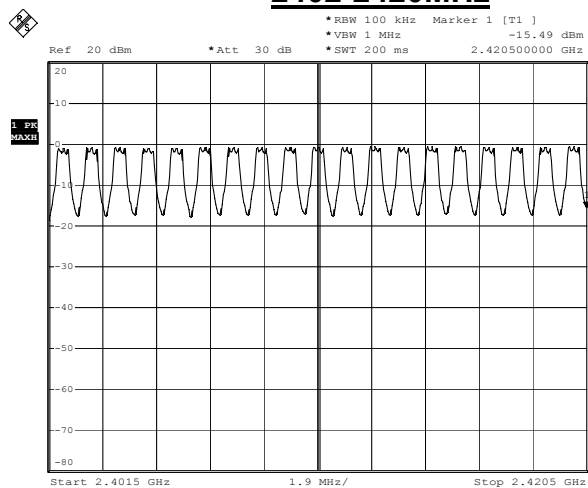
According to FCC Part 15 Subpart C Paragraph 15.247: 2006

6.5. Test Result

Product	Nokia Bluetooth Headset		
Test Item	Channel of Number		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

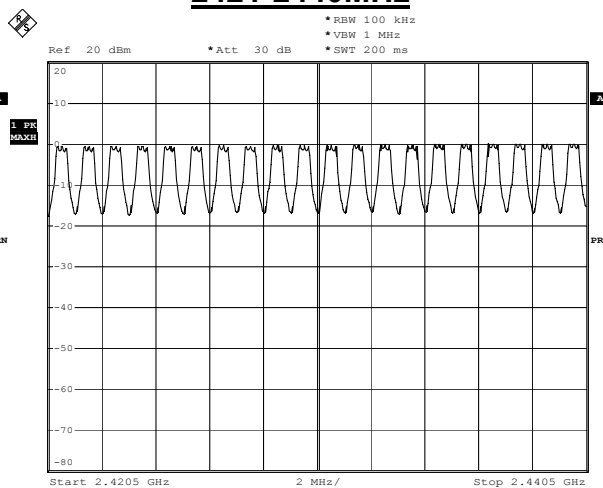
Frequency Range (MHz)	Measure Level (Hopping Channel)	Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

2402-2420MHz



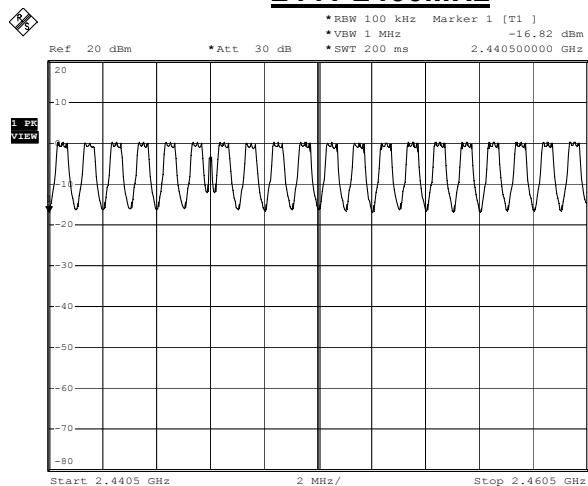
Date: 24.MAY.2007 04:55:39

2421-2440MHz



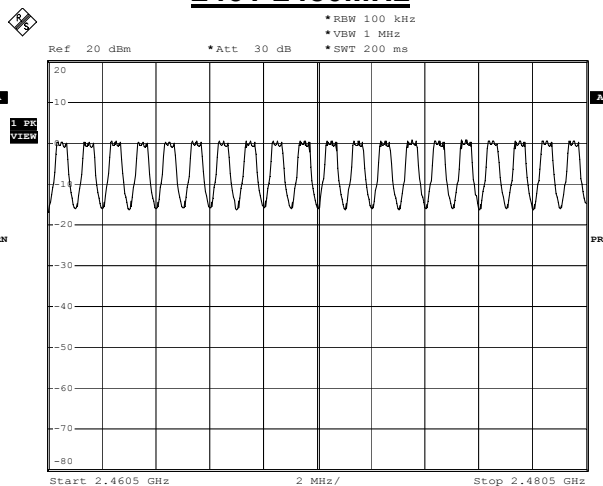
Date: 24.MAY.2007 05:02:19

2441-2460MHz



Date: 24.MAY.2007 05:05:18

2461-2480MHz



Date: 24.MAY.2007 05:08:24

7. Channel Separation

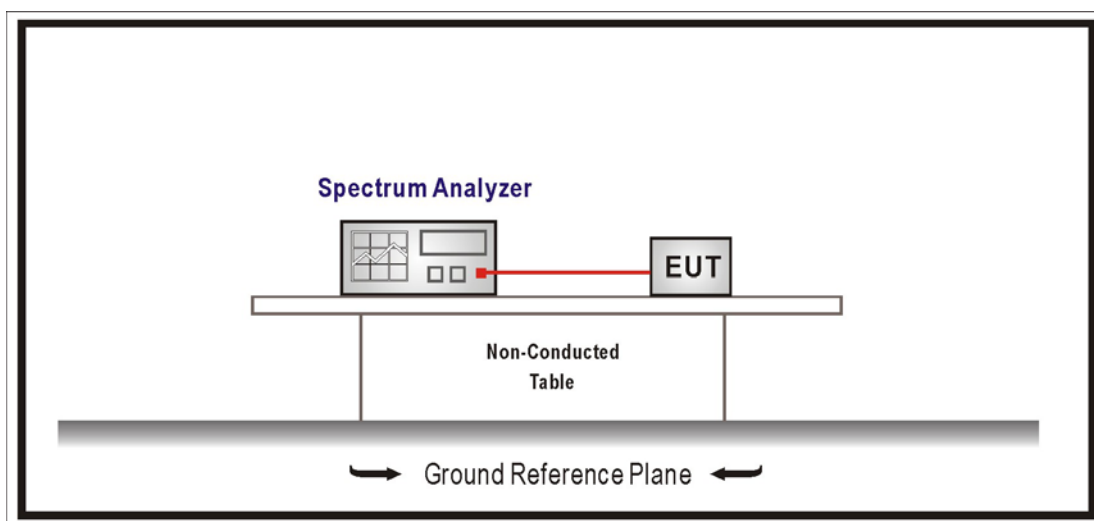
7.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Limits

For 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.

7.4. Test Specification

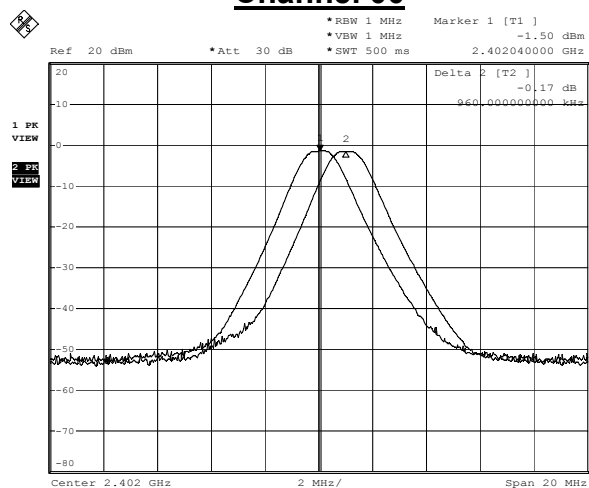
According to FCC Part 15 Subpart C Paragraph 15.247: 2006

7.5. Test Result

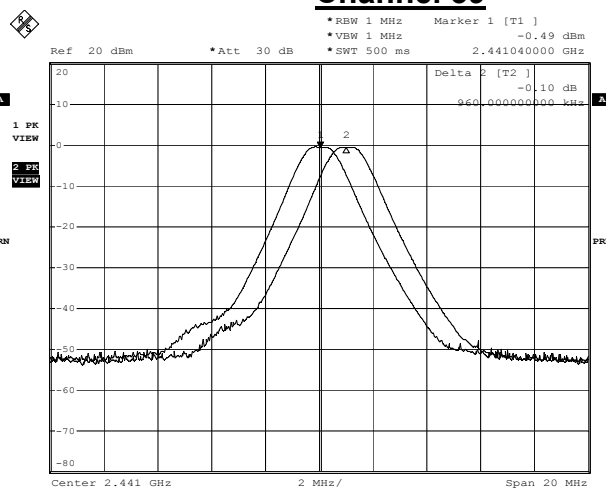
Product	Nokia Bluetooth Headset		
Test Item	Channel Separation		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

Channel No.	Frequency (MHz)	Measure Level (KHz)	Limit (KHz)	Result
00	2402.00	960	> 953.46	Pass
39	2441.00	960	> 953.46	Pass
78	2480.00	960	> 953.46	Pass

Channel 00



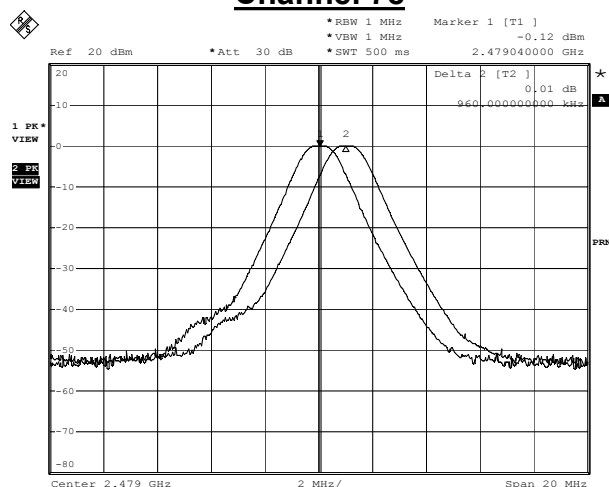
Channel 39



Date: 24.MAY.2007 03:45:25

Date: 24.MAY.2007 03:48:05

Channel 78



Date: 24.MAY.2007 03:49:36

8. Occupied Bandwidth

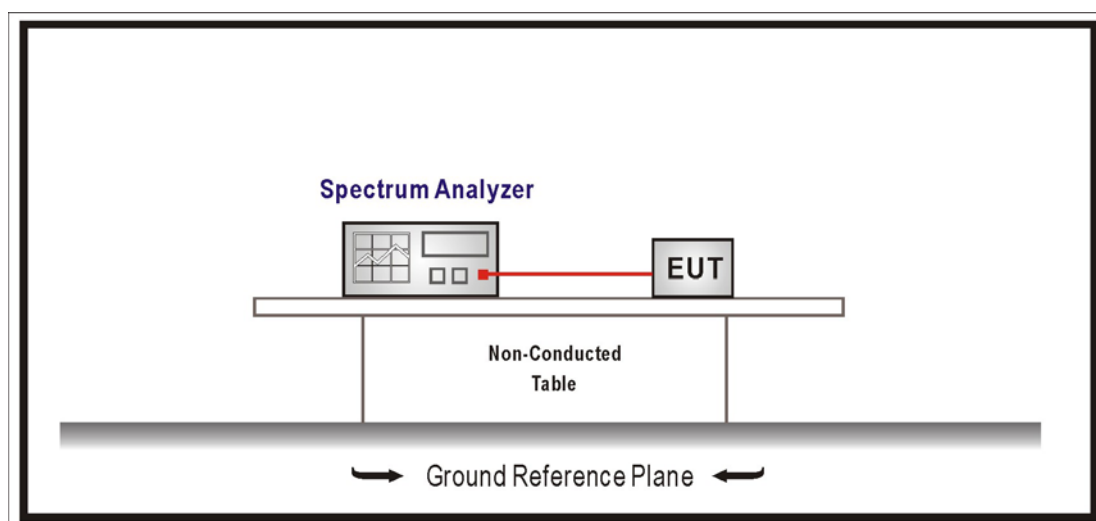
8.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup



8.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

For frequency hopping systems operating in the 5725-5850 MHz bands. The maximum 20 dB bandwidth of the hopping channel is 1 MHz.

For 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.

8.4. Test Specification

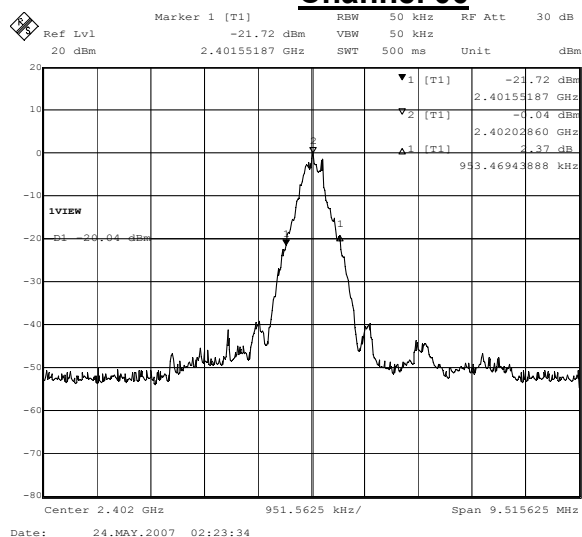
According to FCC Part 15 Subpart C Paragraph 15.247: 2006

8.5. Test Result

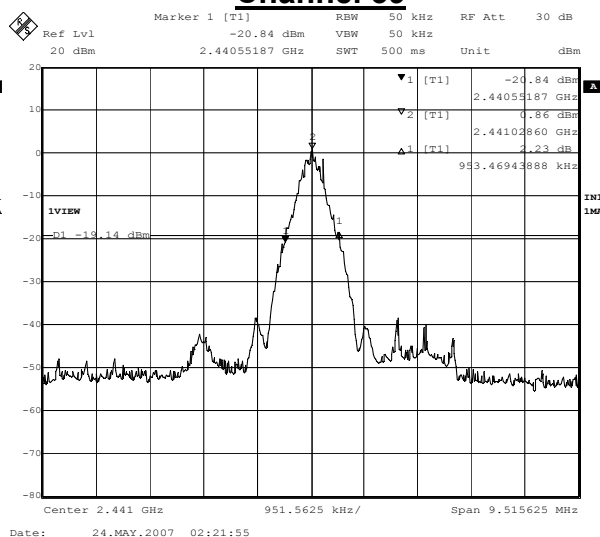
Product	Nokia Bluetooth Headset		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

Channel No.	Frequency (MHz)	Measure Level (KHz)	Limit (MHz)	Result
00	2402.00	953.46	1	Pass
39	2441.00	953.46	1	Pass
78	2480.00	953.46	1	Pass

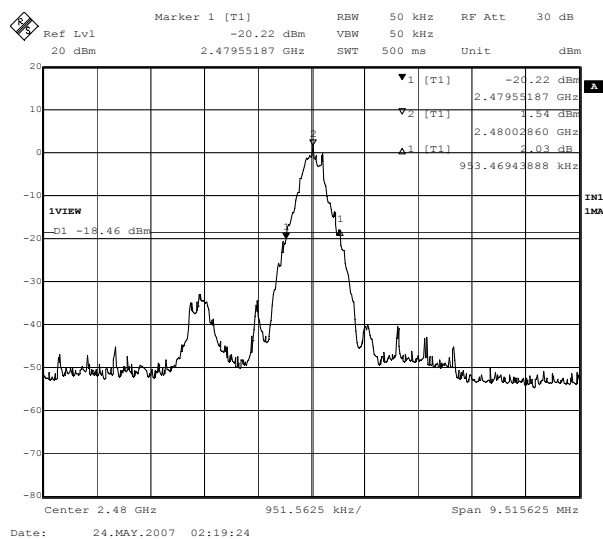
Channel 00



Channel 39



Channel 78



9. Dwell Time

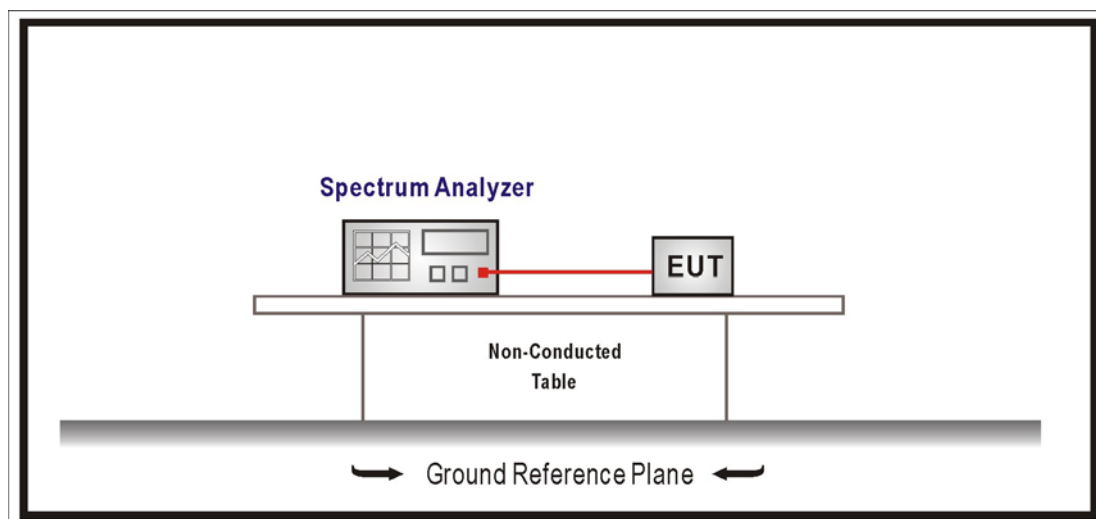
9.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

9.2. Test Setup



9.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. For frequency hopping systems operating in the 2400-2483.5 MHz bands. 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.

For frequency hopping systems operating in the 5725-5850 MHz bands. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

9.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2006

9.5. Test Result

Product	Nokia Bluetooth Headset		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

Occupancy Time of Frequency Hopping System-DH 1

A) 2402MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $16/20\text{msec} = 800/\text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.00058 \times (800/79) \times 31.6 = 0.1856\text{sec}$.

B) 2441MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $16/20\text{msec} = 800/\text{sec}$

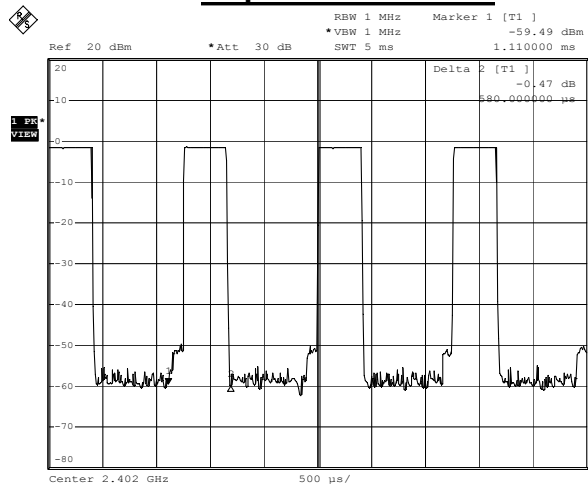
The Maximum Occupancy Time Within 31.6sec: $0.00058 \times (800/79) \times 31.6 = 0.1856\text{sec}$.

C) 2480MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $16/20\text{msec} = 800/\text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.00055 \times (800/79) \times 31.6 = 0.176\text{sec}$.

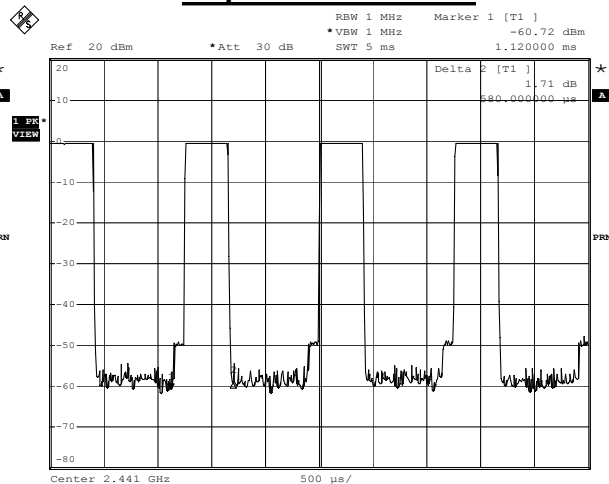
Test Result: The Average Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4sec , And Corresponds to The Standard .

Hop rate-2402MHz



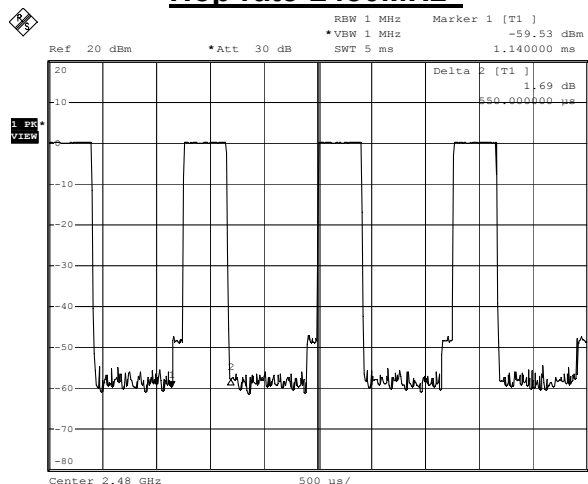
Date: 24.MAY.2007 04:38:28

Hop rate-2441MHz



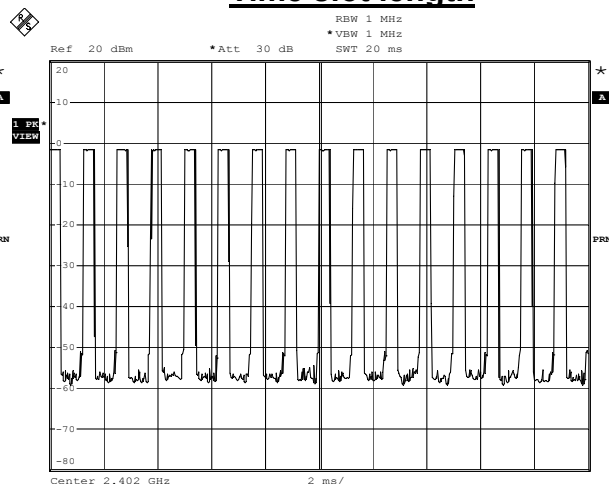
Date: 24.MAY.2007 04:40:10

Hop rate-2480MHz



Date: 24.MAY.2007 04:47:45

Time slot length



Date: 24.MAY.2007 04:42:35

Note: Dwell time = time slot length * hop rate / number of hopping channels * period

Product	Nokia Bluetooth Headset		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

Occupancy Time of Frequency Hopping System-DH 3

A) 2402MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $8/20\text{msec} = 400/\text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.00181 \times (400/79) \times 31.6 = 0.2896\text{sec}$.

B) 2441MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $8/20\text{msec} = 400/\text{sec}$

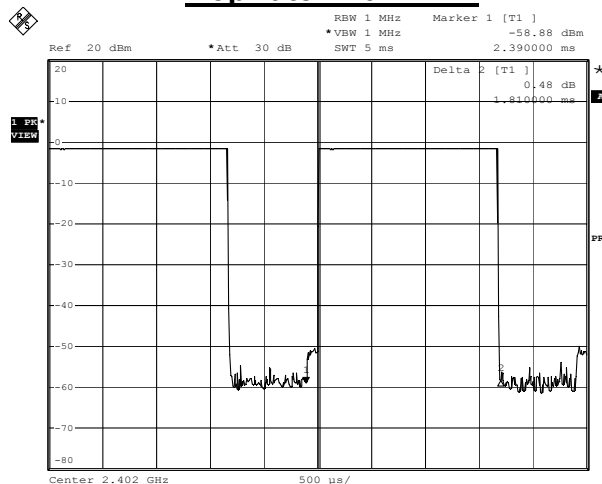
The Maximum Occupancy Time Within 31.6sec: $0.00183 \times (400/79) \times 31.6 = 0.2928\text{sec}$.

C) 2480MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $8/20\text{msec} = 400/\text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.00183 \times (400/79) \times 31.6 = 0.2928\text{sec}$.

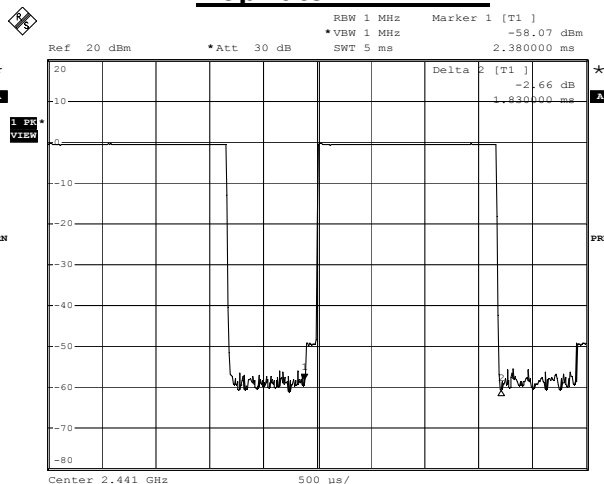
Test Result: The Average Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4sec , And Corresponds to The Standard .

Hop rate-2402MHz



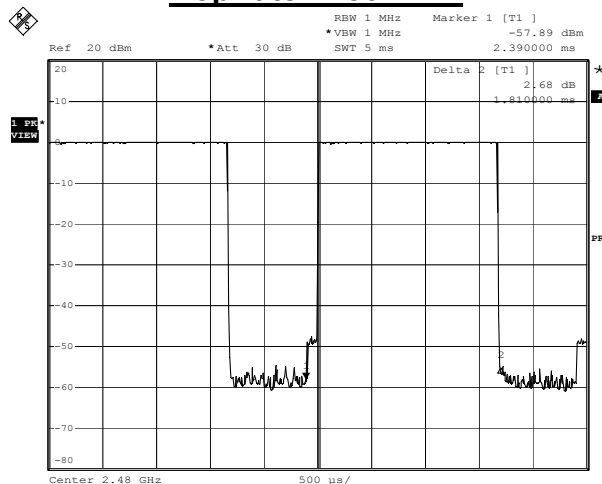
Date: 24.MAY.2007 04:33:57

Hop rate-2441MHz



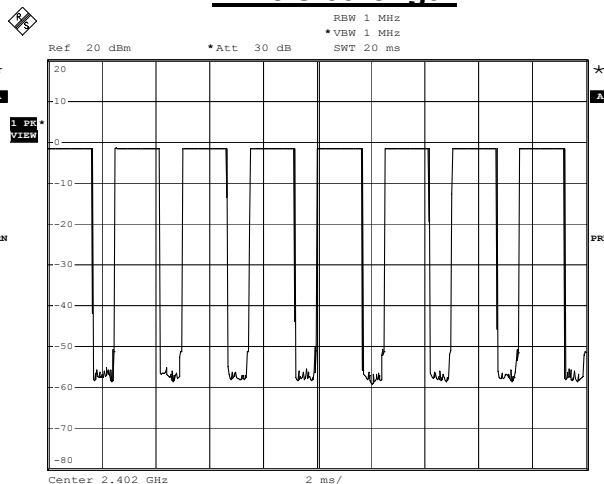
Date: 24.MAY.2007 04:30:44

Hop rate-2480MHz



Date: 24.MAY.2007 04:25:15

Time slot length



Date: 24.MAY.2007 04:34:53

Note: Dwell time = time slot length * hop rate / number of hopping channels * period

Product	Nokia Bluetooth Headset		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit		
Date of Test	2007/05/24	Test Site	No.1 OATS

Occupancy Time of Frequency Hopping System-DH 5

A) 2402MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $5/20\text{msec} = 250 / \text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.00295 \times (250/79) \times 31.6 = 0.295\text{sec}$.

B) 2441MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $5/20\text{msec} = 250 / \text{sec}$

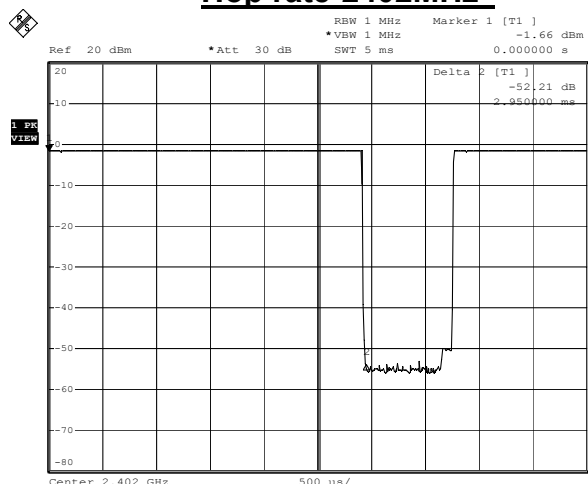
The Maximum Occupancy Time Within 31.6sec: $0.00294 \times (250/79) \times 31.6 = 0.294\text{sec}$.

C) 2480MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $5/20\text{msec} = 250 / \text{sec}$

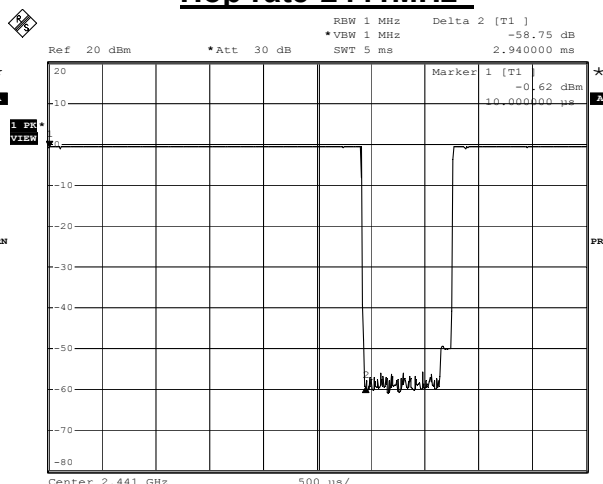
The Maximum Occupancy Time Within 31.6sec: $0.00296 \times (250/79) \times 31.6 = 0.296\text{sec}$.

Test Result: The Average Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4sec , And Corresponds to The Standard .

Hop rate-2402MHz

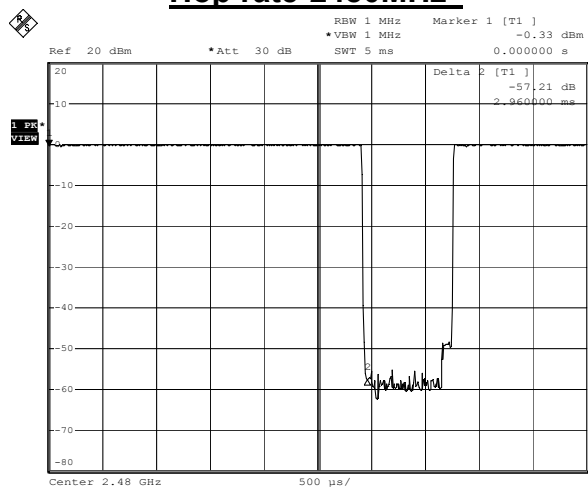


Hop rate-2441MHz



Date: 24.MAY.2007 04:11:42

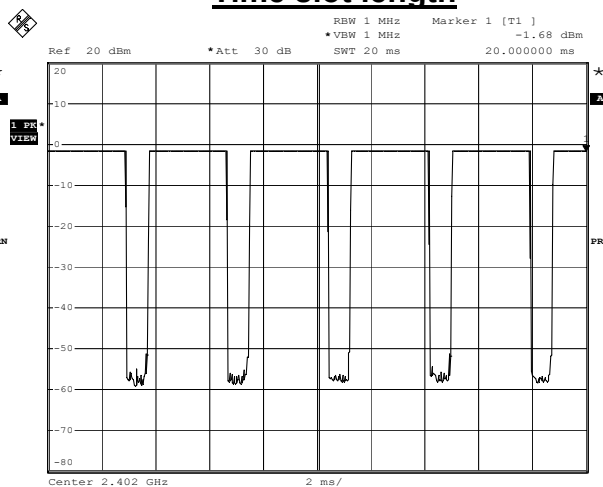
Hop rate-2480MHz



Date: 24.MAY.2007 04:23:40

Date: 24.MAY.2007 04:13:22

Time slot length



Date: 24.MAY.2007 04:07:49

Note: Dwell time = time slot length * hop rate / number of hopping channels * period