

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188


Limit and Margin PK


Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1220.000000	34.3	39.7	74.0	H	-15.5
4960.000000	47.7	26.3	74.0	H	-6.3
7440.000000	47.7	26.3	74.0	H	-0.7
9920.000000	48.6	25.4	74.0	H	2.9

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1220.000000	26.6	27.4	54.0	H	-15.5
4960.000000	31.9	22.1	54.0	H	-6.3
7440.000000	34.2	19.8	54.0	H	-0.7
9920.000000	35.7	18.3	54.0	H	2.9

Date: 7/2/2009 - Time: 11:34:28 AM

Tested by: 

Reviewed by: 


Test Plot of Spurious emission of A.3 – Vertical (1GHz – 18GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

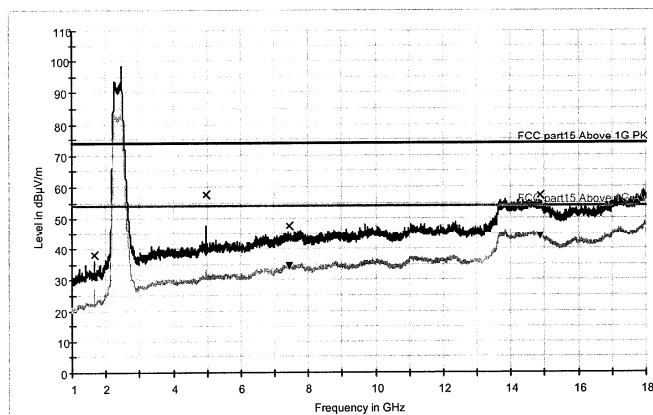
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Namtai Electronic (Shenzhen) Co., Ltd.		
Test Item:	Bluetooth Headset		
Identification	SCVCD		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A.3		
Climate Condition:	23°C;	55%RH;	101kPa.
Test Voltage / Freq. :	Build-in battery		
Receipt No.:	163052345 300		
Report No.	17013167 001		
Result:	Pass		
Comment:			

Subrange 1

Frequency Range:	1GHz - 18GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Date: 7/2/2009 - Time: 11:40:50 AM

Tested by:



Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1652.500000	38.3	35.7	74.0	V	-14.0
4960.000000	57.4	16.6	74.0	V	-6.3
7440.000000	47.8	26.2	74.0	V	-0.7
14880.000000	57.0	17.0	74.0	V	5.8

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1652.500000	31.5	22.5	54.0	V	-14.0
4960.000000	39.0	15.0	54.0	V	-6.3
7440.000000	34.5	19.5	54.0	V	-0.7
14880.000000	44.0	10.0	54.0	V	5.8

Date: 7/2/2009 - Time: 11:40:50 AM

Tested by: 

Reviewed by: 

Test Plot of Spurious emission of A.3 – Horizontal (18GHz – 26GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

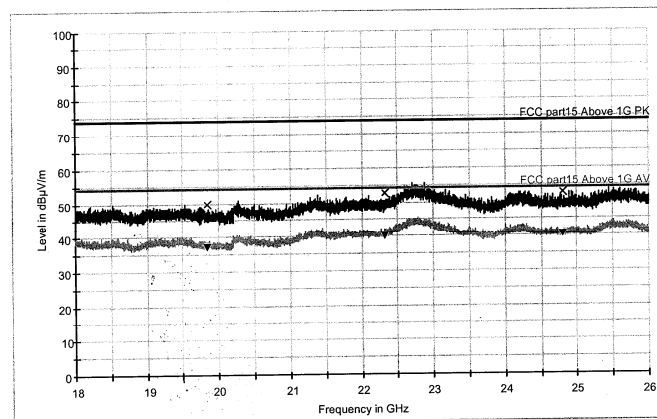
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Nantai Electronic (Shenzhen) Co., Ltd.		
Test Item:	Bluetooth Headset		
Identification	SCVCD		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A.3		
Climate Condition:	23°C;	55%RH;	101kPa.
Test Voltage / Freq. :	Build-in battery		
Receipt No.:	163052345 300		
Report No.	17013167 001		
Result:	Pass		
Comment:			

Subrange 1

Frequency Range:	18GHz - 26GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Date: 7/30/2009 - Time: 12:02:33 PM

Tested by:

Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
19840.000000	50.0	4.3	24.0	74.0	H
22320.000000	52.8	7.4	21.2	74.0	H
24800.000000	52.5	6.3	21.5	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
19840.000000	37.3	4.3	16.7	54.0	H
22320.000000	40.1	7.4	13.9	54.0	H
24800.000000	40.3	6.3	13.7	54.0	H

Date: 7/30/2009 - Time: 12:02:33 PM

Tested by:

Reviewed by:



Test Plot of Spurious emission of A.3 – Vertical (18GHz – 26GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

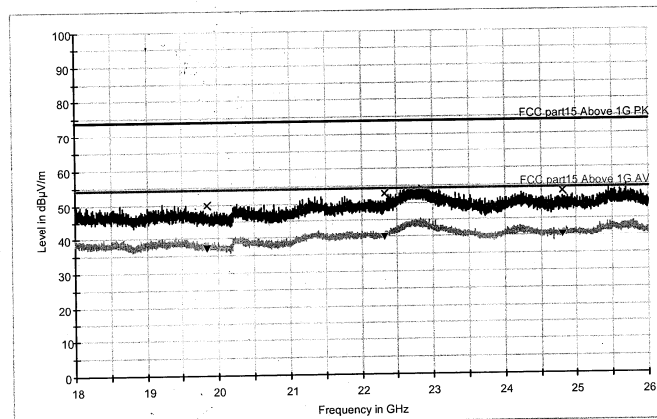
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Nantai Electronic (Shenzhen) Co., Ltd.		
Test Item:	Bluetooth Headset		
Identification:	SCVCD		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A.3		
Climate Condition:	23°C;	55%RH;	101kPa.
Test Voltage / Freq.:	Build-in battery		
Receipt No.:	163052345 300		
Report No.	17013167 001		
Result:	Pass		
Comment:			

Subrange 1

Frequency Range:	18GHz - 26GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Date: 7/30/2009 - Time: 12:05:24 PM

Tested by:  Reviewed by: 


TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
19840.000000	50.0	4.3	24.0	74.0	V
22320.000000	52.8	7.4	21.2	74.0	V
24800.000000	53.1	6.3	20.9	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
19840.000000	37.3	4.3	16.7	54.0	V
22320.000000	40.1	7.4	13.9	54.0	V
24800.000000	40.3	6.3	13.7	54.0	V

Date: 7/30/2009 - Time: 12:05:24 PM

Tested by: 

Reviewed by: 

Test Plot of Spurious emission of B – Horizontal (30MHz – 1GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

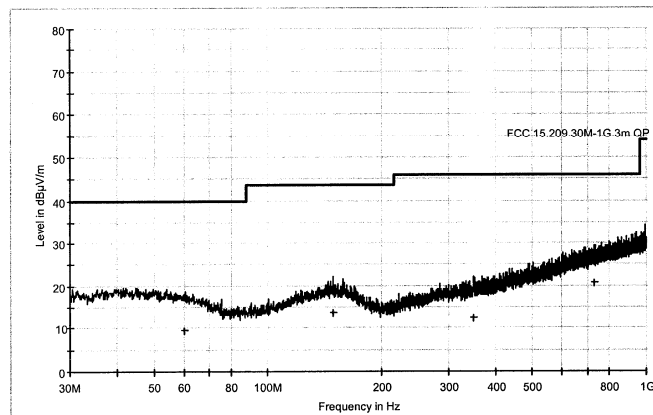
EMC Test Record (EMISSION)

Test Information

Manufacturer: Namtai Electronic (Shenzhen) Co., Ltd.
 Test Item: Bluetooth Headset
 Identification: SCVCD
 Test Standard: FCC Part 15
 Test Detail: Radiated Emission
 Operation Mode: B
 Climate Condition: 23°C; 55%RH; 101kPa.
 Test Voltage / Freq.: Build-in battery
 Receipt No.: 163052345 300
 Report No.: 17013167 001
 Result: Pass
 Comment:

Subrange 1

Frequency Range: 30MHz - 1GHz
 Receiver: TUV ESCI 3
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Limit and Margin

Frequency (MHz)	QuasiPeak (dB µV/m)	Corr. (dB)	Margin (dB)	Limit (dB µV/m)	Polarity
60.050000	9.6	13.7	30.4	40.0	H
149.300000	13.9	15.6	29.6	43.5	H
350.700000	12.6	16.3	33.4	46.0	H
727.300000	20.8	23.6	25.2	46.0	H

Date: 7/29/2009 - Time: 3:52:50 PM

Tested by:



Reviewed by:



Test Plot of Spurious emission of B – Vertical (30MHz – 1GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

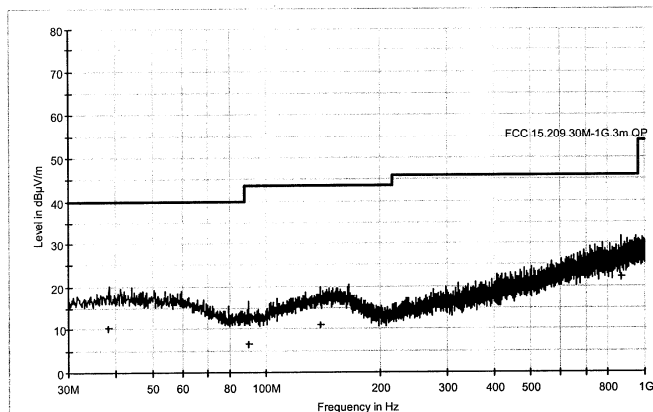
EMC Test Record (EMISSION)

Test Information

Manufacturer: Namtai Electronic (Shenzhen) Co., Ltd.
 Test Item: Bluetooth Headset
 Identification: SCVCD
 Test Standard: FCC Part 15
 Test Detail: Radiated Emission
 Operation Mode: B
 Climate Condition: 23°C; 55%RH; 101kPa.
 Test Voltage / Freq.: Build-in battery
 Receipt No.: 163052345 300
 Report No.: 17013167 001
 Result: Pass
 Comment:

Subrange 1

Frequency Range: 30MHz - 1GHz
 Receiver: TUV ESCI 3
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Limit and Margin

Frequency (MHz)	QuasiPeak (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
38.350000	10.5	14.6	29.5	40.0	V
89.900000	6.6	10.6	36.9	43.5	V
138.750000	11.3	14.9	32.2	43.5	V
867.250000	22.3	25.2	23.7	46.0	V

Date: 7/29/2009 - Time: 3:55:06 PM

Tested by:



Reviewed by:



Test Plot of Spurious emission of B – Horizontal (1GHz – 18GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

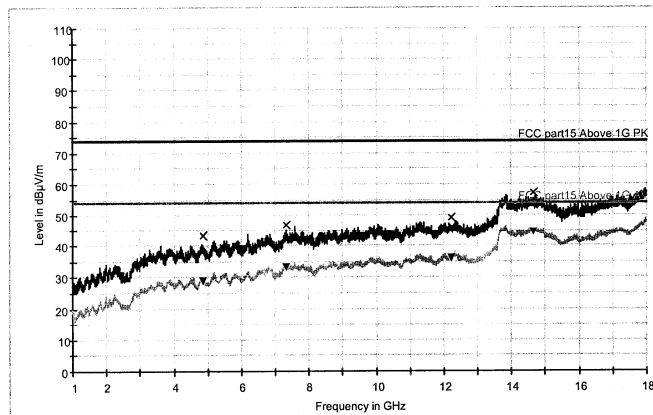
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Nantai Electronic (Shenzhen) Co., Ltd.		
Test Item:	Bluetooth Headset		
Identification:	SCVCD		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	B		
Climate Condition:	23°C;	55%RH;	101kPa.
Test Voltage / Freq. :	Build-in battery		
Receipt No.:	163052345 300		
Report No.	17013167 001		
Result:	Pass		
Comment:			

Subrange 1

Frequency Range:	1GHz - 18GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Date: 7/30/2009 - Time: 9:56:39 AM

Tested by:



Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
4882.000000	43.5	30.5	74.0	H	-5.9
7323.000000	46.8	27.2	74.0	H	0.1
12205.000000	49.2	24.8	74.0	H	4.4
14646.000000	57.3	16.7	74.0	H	8.7

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
4882.000000	29.0	25.0	54.0	H	-5.9
7323.000000	33.3	20.7	54.0	H	0.1
12205.000000	36.3	17.7	54.0	H	4.4
14646.000000	44.5	9.5	54.0	H	8.7

Date: 7/30/2009 - Time: 9:56:39 AM

Tested by:



Reviewed by:



Test Plot of Spurious emission of B – Vertical (1GHz – 18GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

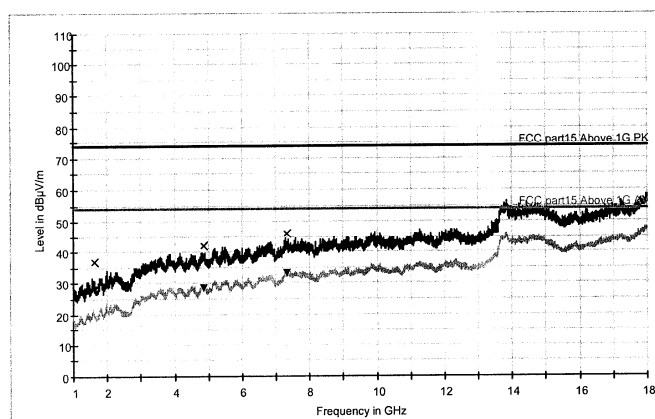
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Nantai Electronic (Shenzhen) Co., Ltd.		
Test Item:	Bluetooth Headset		
Identification	SCVCD		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	B		
Climate Condition:	23°C;	55%RH;	101kPa.
Test Voltage / Freq. :	Build-in battery		
Receipt No.:	163052345 300		
Report No.	17013167 001		
Result:	Pass		
Comment:			

Subrange 1

Frequency Range:	1GHz - 18GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Date: 7/30/2009 - Time: 10:01:12 AM

Tested by:

Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1626.000000	37.0	37.0	74.0	V	-14.7
4882.000000	42.2	31.8	74.0	V	-5.9
7323.000000	46.1	27.9	74.0	V	0.1

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)	Polarity	Corr. (dB)
1626.000000	28.0	26.0	54.0	V	-14.7
4882.000000	28.8	25.2	54.0	V	-5.9
7323.000000	33.2	20.8	54.0	V	0.1

Date: 7/30/2009 - Time: 10:01:12 AM

Tested by:



Reviewed by:



Test Plot of Spurious emission of B – Horizontal (18GHz – 26GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

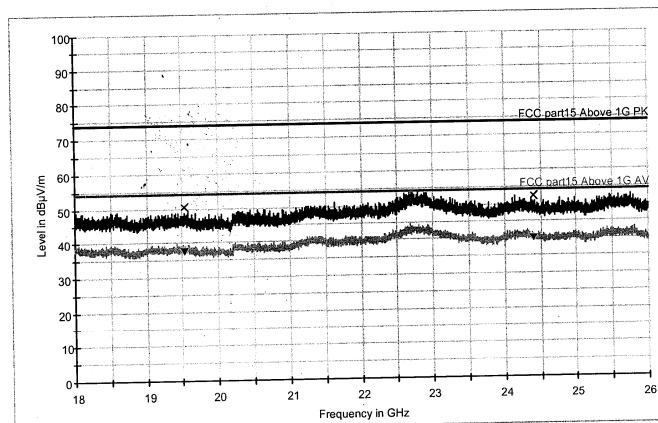
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Namtai Electronic (Shenzhen) Co., Ltd.
Test Item:	Bluetooth Headset
Identification:	SCVCD
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	B
Climate Condition:	23°C; 55%RH; 101kPa.
Test Voltage / Freq.:	Build-in battery
Receipt No.:	163052345 300
Report No.:	17013167 001
Result:	Pass
Comment:	

Subrange 1

Frequency Range:	18GHz - 26GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Date: 7/30/2009 - Time: 12:25:07 PM

Tested by:



Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
19528.000000	50.6	4.4	23.4	74.0	H
24410.000000	52.3	5.7	21.7	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
19528.000000	37.7	4.4	16.3	54.0	H
24410.000000	39.9	5.7	14.1	54.0	H

Date: 7/30/2009 - Time: 12:25:07 PM

Tested by:



Reviewed by:



Test Plot of Spurious emission of B – Vertical (18GHz – 26GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

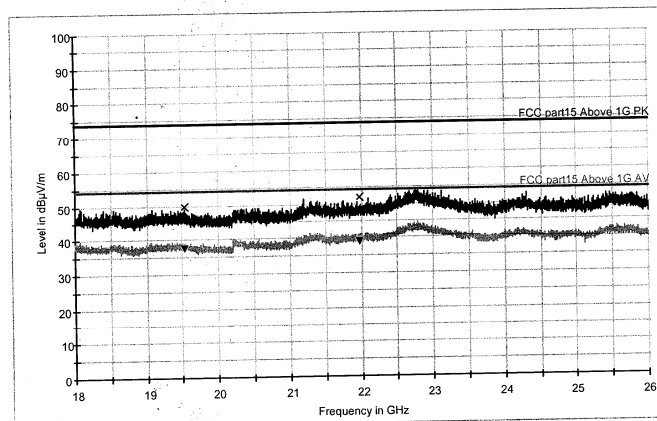
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Namtai Electronic (Shenzhen) Co., Ltd.		
Test Item:	Bluetooth Headset		
Identification	SCVCD		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	B		
Climate Condition:	23°C;	55%RH;	101kPa.
Test Voltage / Freq. :	Build-in battery		
Receipt No.:	163052345 300		
Report No.	17013167 001		
Result:	Pass		
Comment:			

Subrange 1

Frequency Range:	18GHz - 26GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Date: 7/30/2009 - Time: 12:16:02 PM

Tested by:



Reviewed by:



TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
19528.000000	49.9	4.4	24.1	74.0	V
21969.000000	52.1	6.3	21.9	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dB μ V/m)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Polarity
19528.000000	37.6	4.4	16.4	54.0	V
21969.000000	39.1	6.3	14.9	54.0	V

Date: 7/30/2009 - Time: 12:16:02 PM

Tested by:

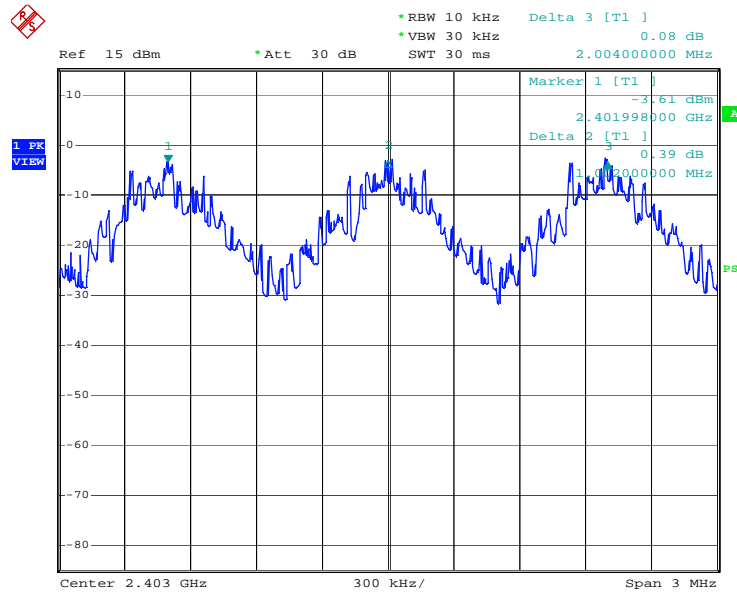


Reviewed by:



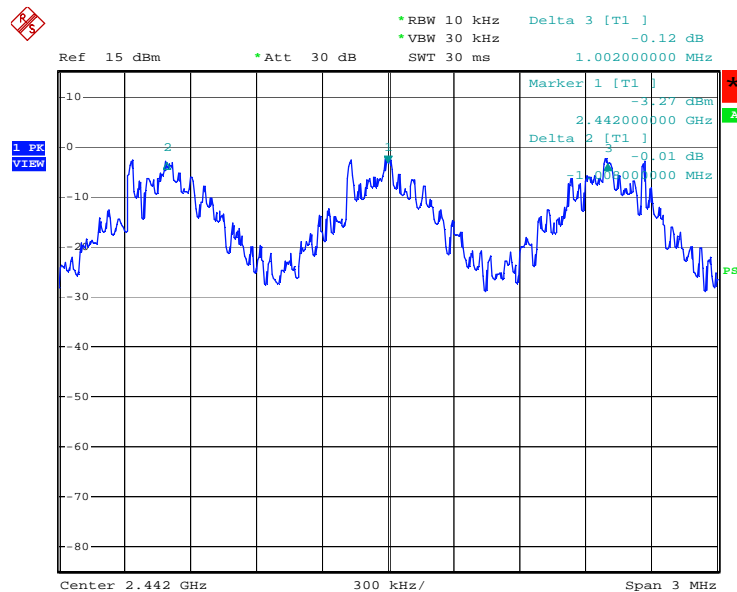
Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2479			

Test Plot of Frequency Separation Low Channel



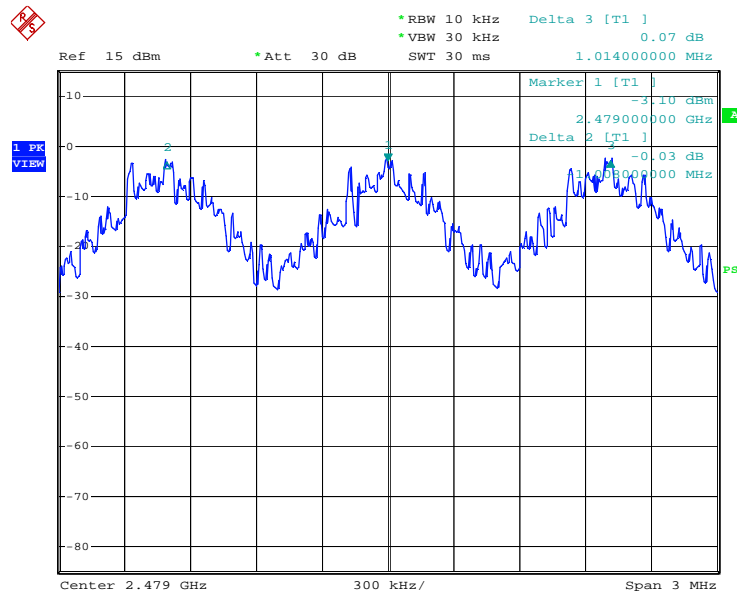
Date: 24.JUL.2009 15:27:48

Middle Channel



Date: 24.JUL.2009 15:31:28

High Channel



Date: 24.JUL.2009 15:35:36

5.1.7 Number of hopping frequency

RESULT:**Passed**

Date of testing : 2009-07-24
Test standard : FCC part 15.247(a)(1)(iii)
RSS-210 A8.1 (d)
Basic standard : ANSI C63.4: 2003
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shield room

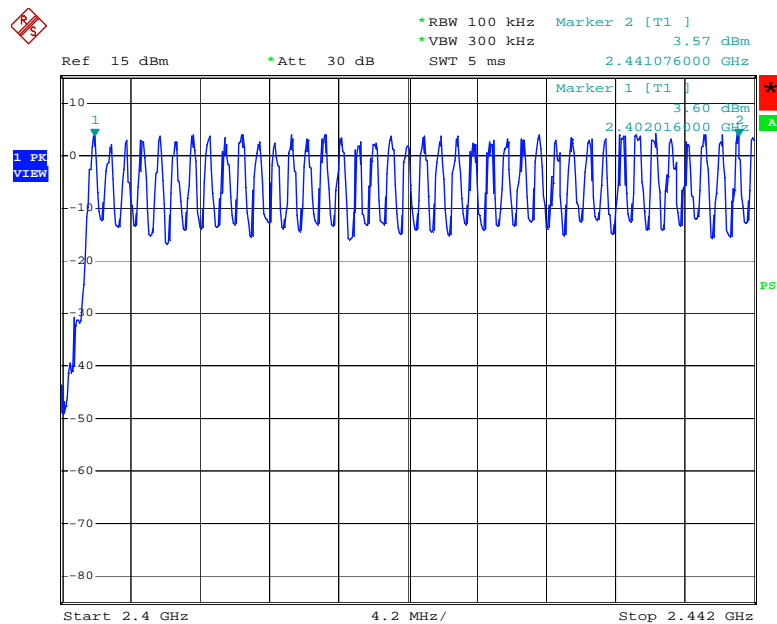
Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 24°C
Relative humidity : 53%
Atmospheric pressure : 101 kPa

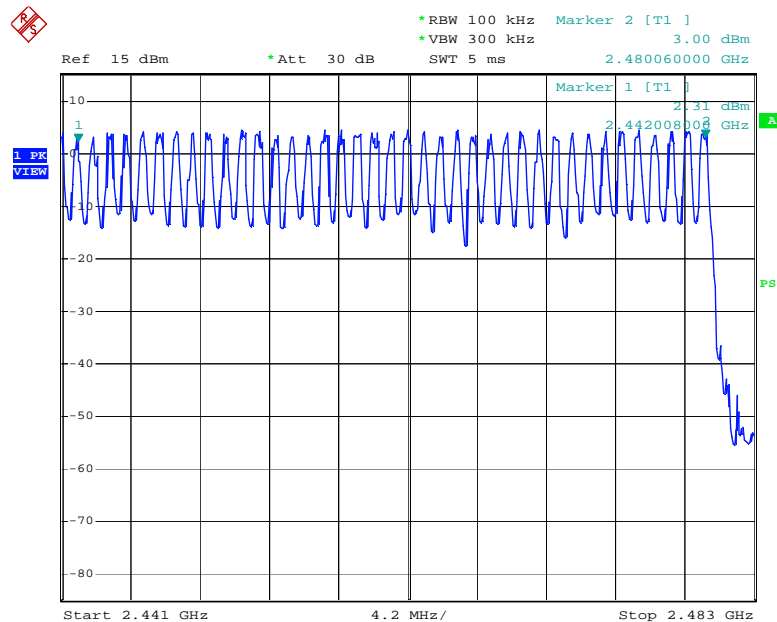
Table 8: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2400</u> to <u>2483.5</u> MHz	79	≥ 15	Pass

Test Plot of Number of hopping frequencies



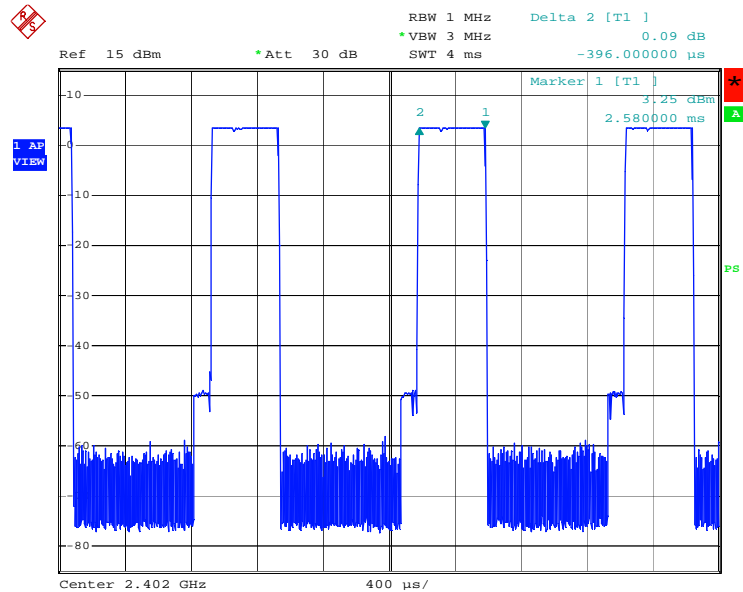
Date: 24.JUL.2009 15:21:42



Date: 24.JUL.2009 15:19:37

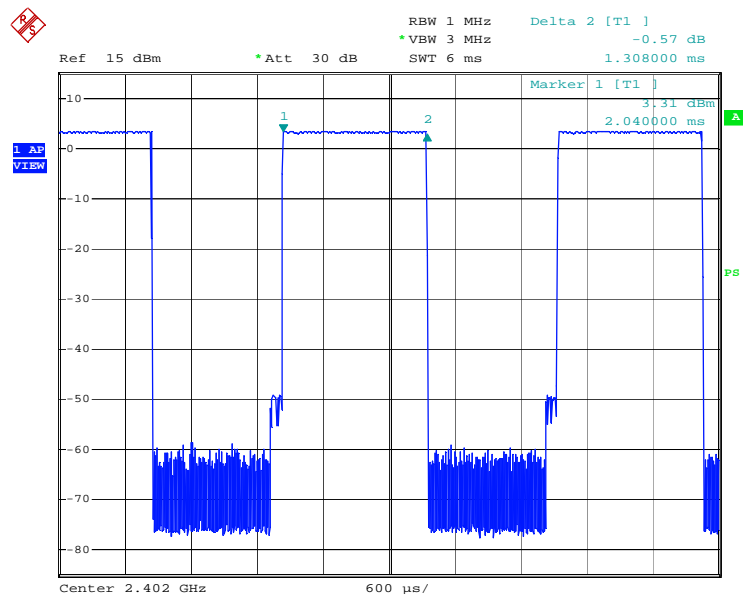
Test Plot of Time of Occupancy

Low Channel- DH1

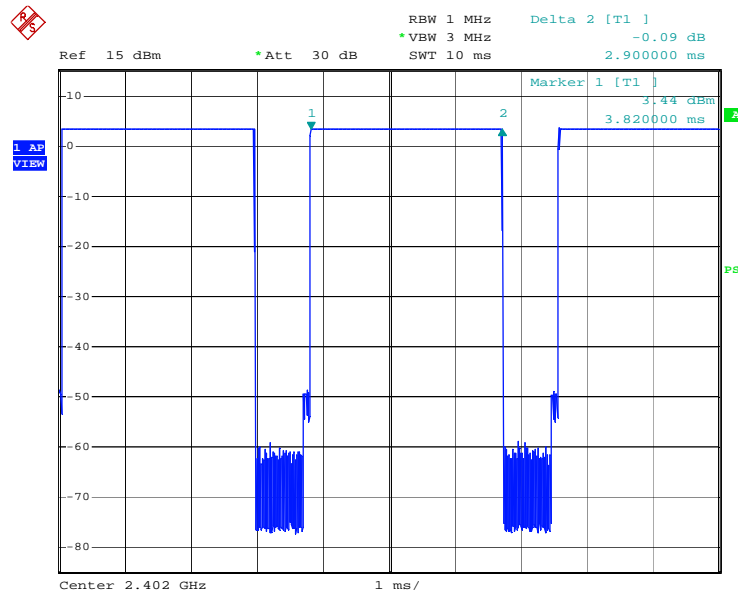


Date: 24.JUL.2009 16:04:01

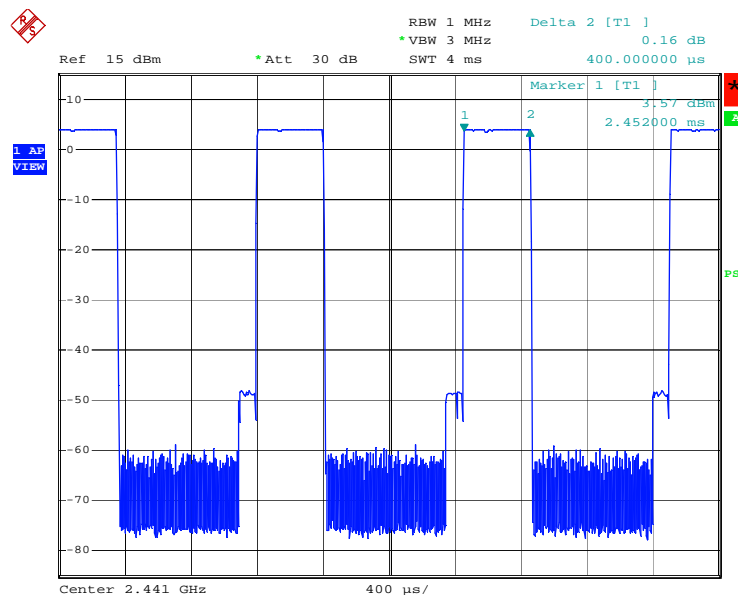
Low Channel- DH3



Date: 24.JUL.2009 16:05:07

Low Channel- DH5


Date: 24.JUL.2009 16:11:27

Middle Channel- DH1


Date: 24.JUL.2009 16:09:06