

Test Plot of Spurious emission of A.2 – Vertical (18GHz – 26GHz)

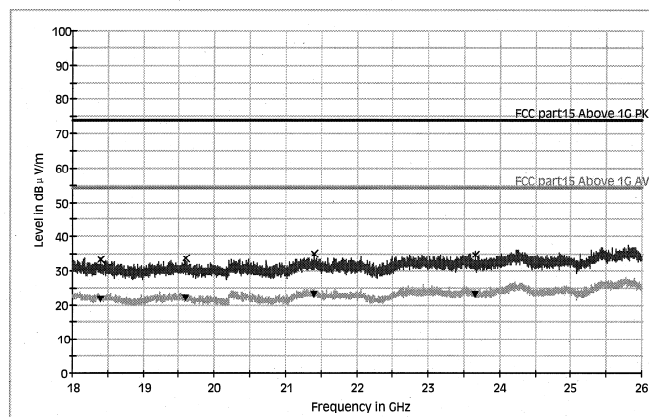
EMC32 Report

Test Information

Manufacturer Name: Namtai
 Model Number: SLEH-00089(MIC)
 Operating Conditions: TX_Middle channel
 Comment: Vertical

Subrange 1

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



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
18401.000000	33.4	-14.4	40.6	74.0	V
19593.000000	33.5	-13.8	40.5	74.0	V
21405.000000	35.0	-13.1	39.0	74.0	V
23653.000000	34.7	-12.7	39.3	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
18401.000000	21.7	-14.4	32.3	54.0	V
19593.000000	21.9	-13.8	32.1	54.0	V
21405.000000	23.2	-13.1	30.8	54.0	V
23653.000000	23.1	-12.7	30.9	54.0	V

2008-09-04



10:49:00 AM

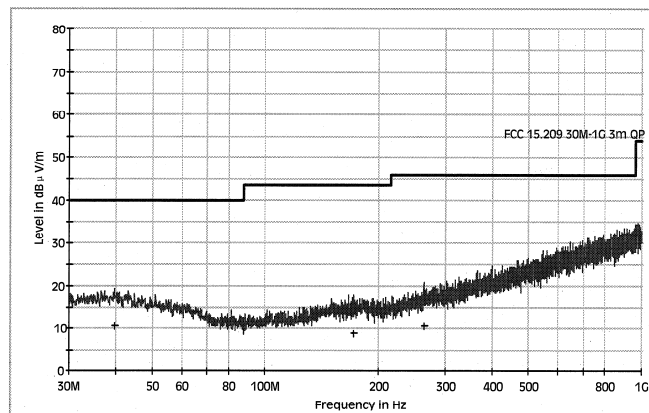
Test Plot of Spurious emission of A.3 – Horizontal (30MHz – 1GHz)

EMC32 Report

Test Information

Manufacturer Name: Namtai
Model Number: SLEH-00089(MIC)
Operating Conditions: TX_High channel
Comment: Horizontal

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
39.700000	10.8	14.4	29.2	40.0	H
171.500000	9.1	13.3	34.4	43.5	H
263.550000	10.7	15.0	35.3	46.0	H



Test Plot of Spurious emission of A.3 – Vertical (30MHz – 1GHz)

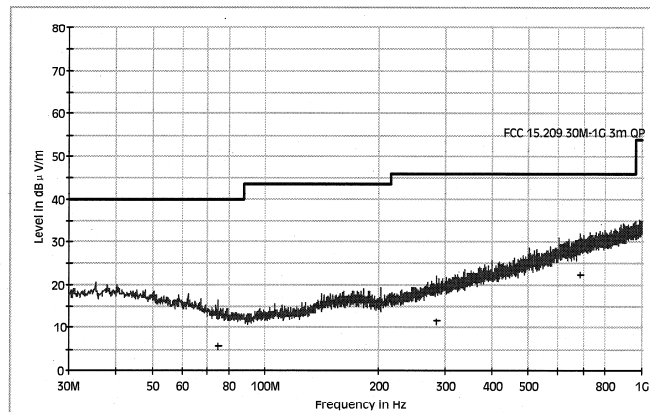
EMC32 Report

Test Information

Manufacturer Name:	Nantai
Model Number:	SLEH-00089(MIC)
Operating Conditions:	TX_High channel
Comment:	Vertical

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
74.750000	5.7	9.6	34.3	40.0	V
285.450000	11.4	15.5	34.6	46.0	V
687.550000	22.5	25.5	23.5	46.0	V



2008-09-04

2:37:54 PM

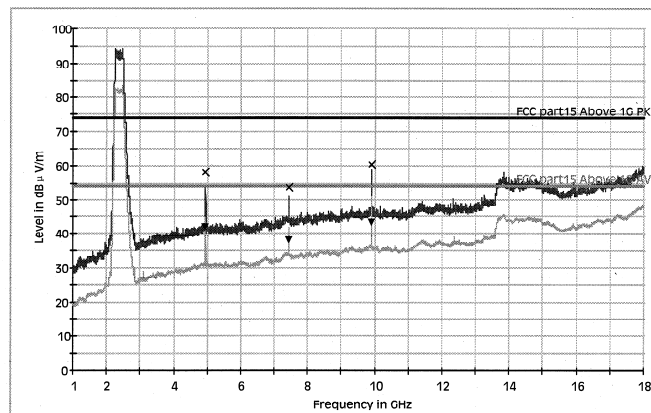
Test Plot of Spurious emission of A.3 – Horizontal (1GHz – 18GHz)

EMC32 Report

Test Information

Manufacturer Name:	Namtai
Model Number:	SLEH-00089(MIC)
Operating Conditions:	TX_High channel
Comment:	Horizontal

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



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μV/m)	Margin (dB)	Limit (dB μV/m)	Polarity	Corr. (dB)
4954.000000	58.3	15.7	74.0	H	-5.5
7431.000000	53.6	20.4	74.0	H	-0.2
9908.000000	60.2	13.8	74.0	H	4.1

Limit and Margin AV

Frequency (MHz)	Average (dB μV/m)	Margin (dB)	Limit (dB μV/m)	Polarity	Corr. (dB)
4954.000000	41.7	12.3	54.0	H	-5.5
7431.000000	38.0	16.0	54.0	H	-0.2
9908.000000	43.3	10.7	54.0	H	4.1

2008-09-03

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

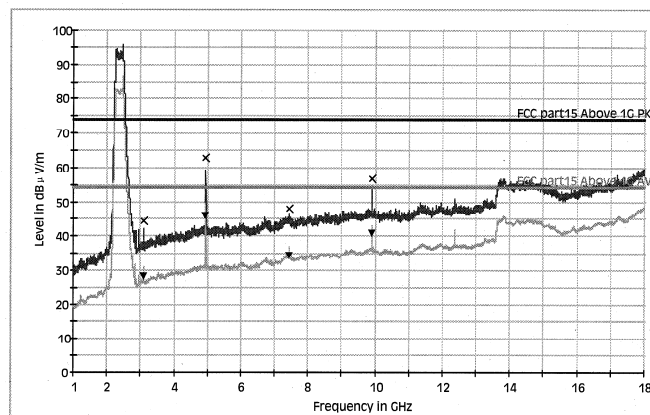
EMC32 Report

Test Information

Manufacturer Name: Namtai
 Model Number: SLEH-00089(MIC)
 Operating Conditions: TX_High channel
 Comment: Vertical

Subrange 1

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



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μV/m)	Margin (dB)	Limit (dB μV/m)	Polarity	Corr. (dB)
3095.000000	44.3	29.7	74.0	V	-9.7
4954.000000	62.7	11.3	74.0	V	-5.5
7430.000000	47.9	26.1	74.0	V	-0.2
9908.000000	56.8	17.2	74.0	V	4.1

Limit and Margin AV

Frequency (MHz)	Average (dB μV/m)	Margin (dB)	Limit (dB μV/m)	Polarity	Corr. (dB)
3095.000000	28.1	25.9	54.0	V	-9.7
4954.000000	45.8	8.2	54.0	V	-5.5
7430.000000	34.4	19.6	54.0	V	-0.2
9908.000000	40.7	13.3	54.0	V	4.1

2008-09-03

2008-09-03

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

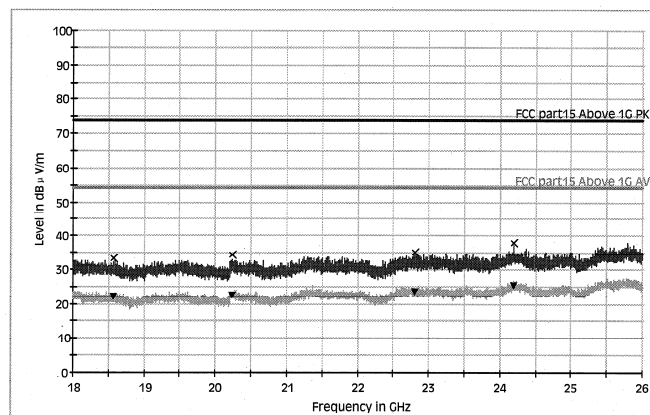
EMC32 Report

Test Information

Manufacturer Name: Namtai
 Model Number: SLEH-00089(MIC)
 Operating Conditions: TX_High channel
 Comment: Horizontal

Subrange 1

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



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
18568.000000	33.3	-14.4	40.7	74.0	H
20246.000000	34.1	-13.9	39.9	74.0	H
22803.000000	34.9	-13.0	39.1	74.0	H
24202.000000	37.9	-12.0	36.1	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
18568.000000	22.1	-14.4	31.9	54.0	H
20246.000000	22.5	-13.9	31.5	54.0	H
22803.000000	23.5	-13.0	30.5	54.0	H
24202.000000	25.4	-12.0	28.6	54.0	H

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

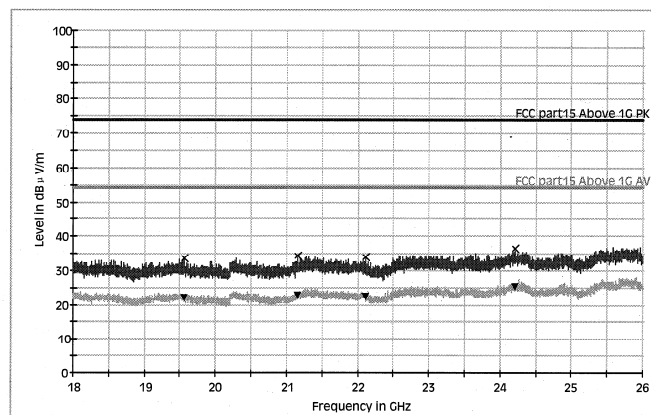
EMC32 Report

Test Information

Manufacturer Name: Namtai
 Model Number: SLFH-00089(MIC)
 Operating Conditions: TX_High channel
 Comment: Vertical

Subrange 1

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



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
19567.000000	33.4	-13.8	40.6	74.0	V
21161.000000	34.5	-13.8	39.5	74.0	V
22106.000000	34.1	-13.1	39.9	74.0	V
24212.000000	36.4	-12.1	37.6	74.0	V

Limit and Margin AV

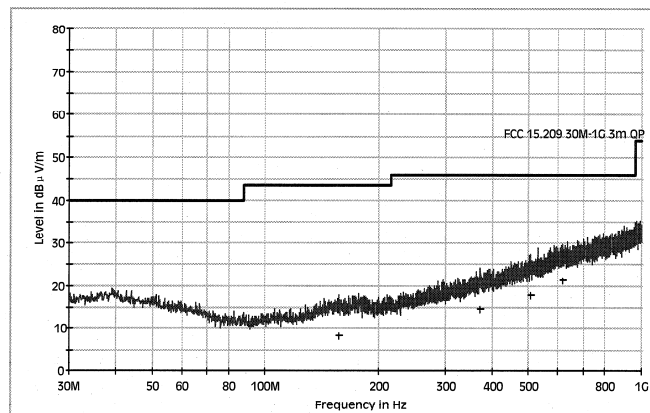
Frequency (MHz)	Average (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
19567.000000	21.9	-13.8	32.1	54.0	V
21161.000000	22.6	-13.8	31.4	54.0	V
22106.000000	22.2	-13.1	31.8	54.0	V
24212.000000	25.3	-12.1	28.7	54.0	V

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

EMC32 Report

Test Information

Manufacturer Name:	Namtai
Model Number:	SLEH-00089(MIC)
Operating Conditions:	RX
Comment:	Horizontal
 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
157.050000	8.4	12.8	35.1	43.5	H
372.900000	14.9	18.8	31.1	46.0	H
505.650000	18.0	21.9	28.0	46.0	H
614.950000	21.5	24.4	24.5	46.0	H



2008-09-04

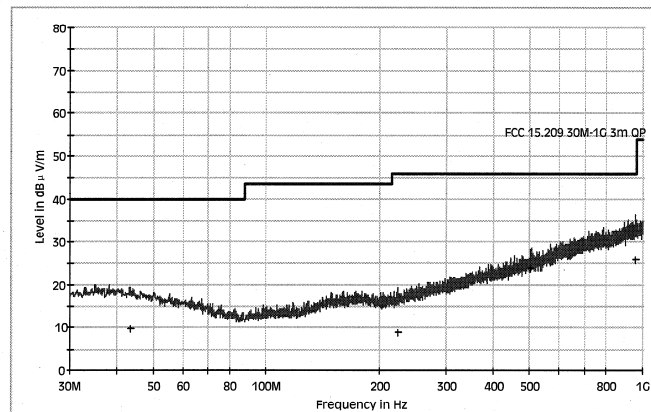
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Test Plot of Spurious emission of B – Vertical (30MHz – 1GHz)

EMC32 Report

Test Information

Manufacturer Name:	Namtai
Model Number:	SLEH-00089(MIC)
Operating Conditions:	RX
Comment:	Vertical
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
43.350000	9.8	13.9	30.2	40.0	V
223.250000	8.8	13.3	37.2	46.0	V
501.100000	23.9	21.7	22.1	46.0	V
956.250000	26.1	29.1	19.9	46.0	V



2008-09-04

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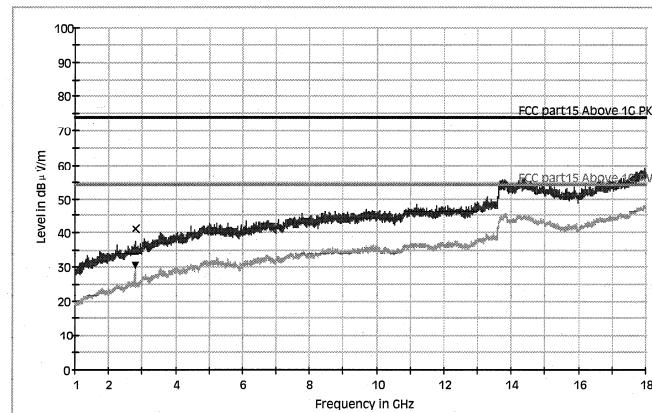
Test Plot of Spurious emission of B – Horizontal (1GHz – 18GHz)

EMC32 Report

Test Information

Manufacturer Name:	Namtai
Model Number:	SLEH-00089(MIC)
Operating Conditions:	RX
Comment:	Horizontal

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



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μV/m)	Margin (dB)	Limit (dB μV/m)	Polarity	Corr. (dB)
2787.500000	41.2	32.8	74.0	H	-11.6

Limit and Margin AV

Frequency (MHz)	Average (dB μV/m)	Margin (dB)	Limit (dB μV/m)	Polarity	Corr. (dB)
2787.500000	30.5	23.5	54.0	H	-11.6



2008-09-04

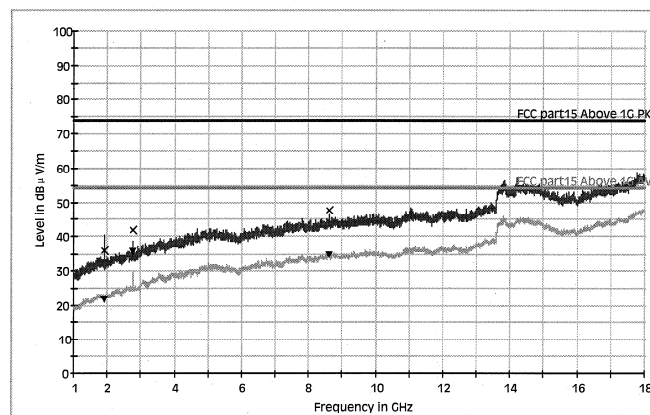
10:01:49 AM

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

EMC32 Report

Test Information

Manufacturer Name:	Namtai
Model Number:	SLEH-00089(MIC)
Operating Conditions:	RX
Comment:	Vertical
Subrange 1	
Frequency Range:	1GHz - 18GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μV/m)	Margin (dB)	Limit (dB μV/m)	Polarity	Corr. (dB)
1909.500000	36.1	37.9	74.0	V	-13.6
2767.500000	41.8	32.2	74.0	V	-11.4
8609.500000	47.6	26.4	74.0	V	1.1

Limit and Margin AV

Frequency (MHz)	Average (dB μV/m)	Margin (dB)	Limit (dB μV/m)	Polarity	Corr. (dB)
1909.500000	21.6	32.4	54.0	V	-13.6
2767.500000	35.9	18.1	54.0	V	-11.4
8609.500000	34.7	19.3	54.0	V	1.1



2008-09-04

10:13:47 AM

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

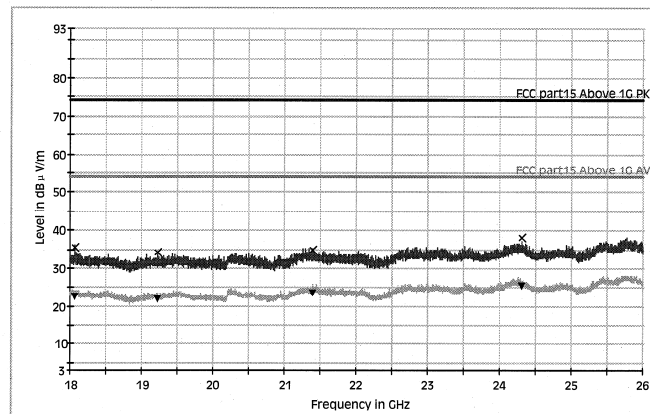
EMC32 Report

Test Information

Manufacturer Name: Namtai
 Model Number: SLEH-00089(MIC)
 Operating Conditions: RX
 Comment: Horizontal

Subrange 1

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



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
18062.000000	35.6	-14.5	38.4	74.0	H
19218.000000	34.0	-14.0	40.0	74.0	H
21395.000000	34.9	-13.2	39.1	74.0	H
24308.000000	38.0	-12.1	36.0	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
18062.000000	22.6	-14.5	31.4	54.0	H
19218.000000	21.8	-14.0	32.2	54.0	H
21395.000000	23.5	-13.2	30.5	54.0	H
24308.000000	25.4	-12.1	28.6	54.0	H

2008-09-04



10:29:37 AM

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

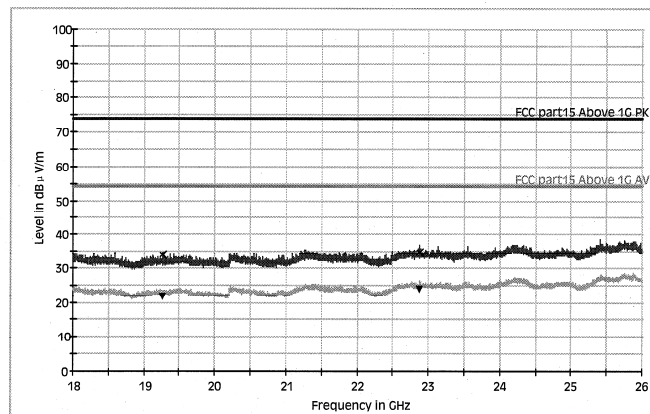
EMC32 Report

Test Information

Manufacturer Name: Namtai
 Model Number: SLEH-00089(MIC)
 Operating Conditions: RX
 Comment: Vertical

Subrange 1

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



Limit and Margin PK

Frequency (MHz)	MaxPeak (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
19261.000000	33.9	-13.9	40.1	74.0	V
22874.000000	34.7	-13.0	39.3	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
19261.000000	21.7	-13.9	32.3	54.0	V
22874.000000	23.7	-13.0	30.3	54.0	V



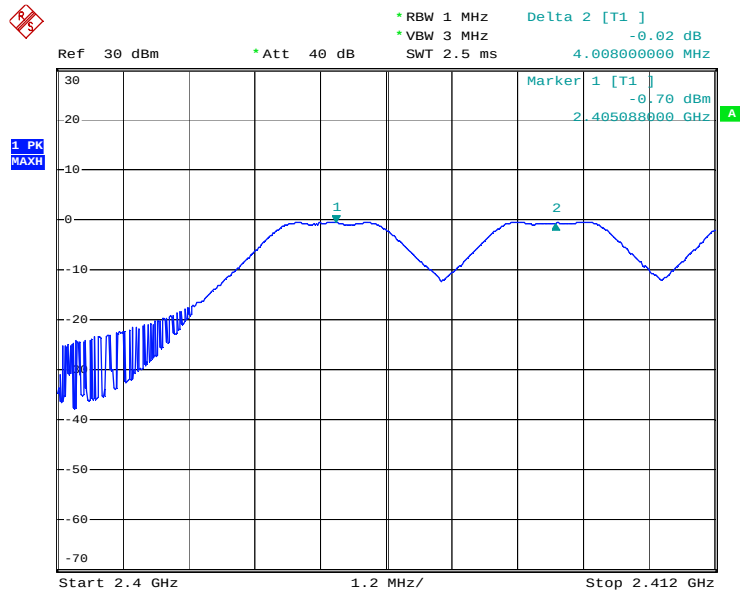
2008-09-04

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Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2405	4	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2409			
Mid Channel	2437	4	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2441			
High Channel	2473	4	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2477			

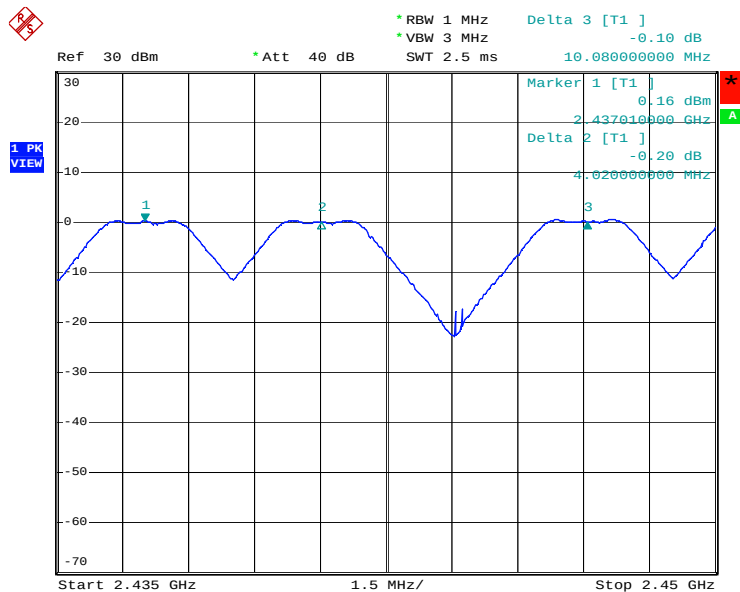
Test Plot of Frequency Separation

Low Channel



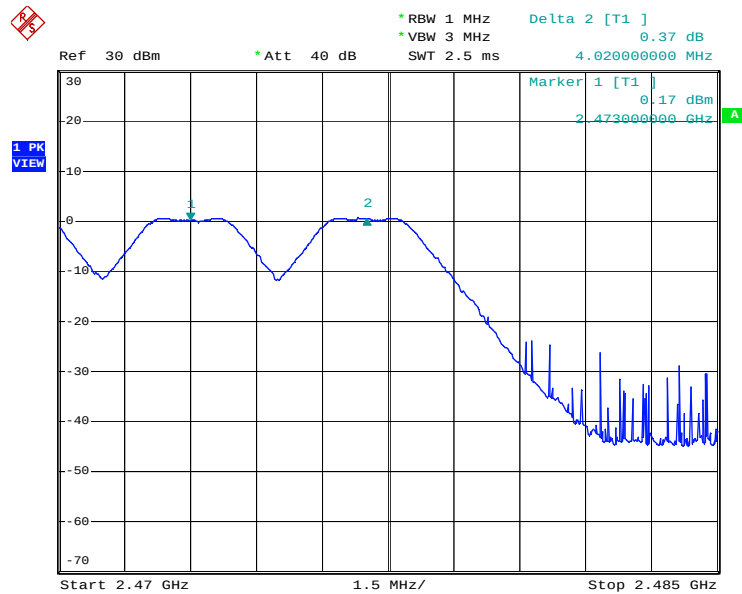
Date: 21.NOV.2008 10:52:37

Middle Channel



Date: 21.NOV.2008 10:55:57

High Channel



Date: 21.NOV.2008 10:41:03

5.1.7 Number of hopping frequency**RESULT:****Passed**

Date of testing : 2008-11-21
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

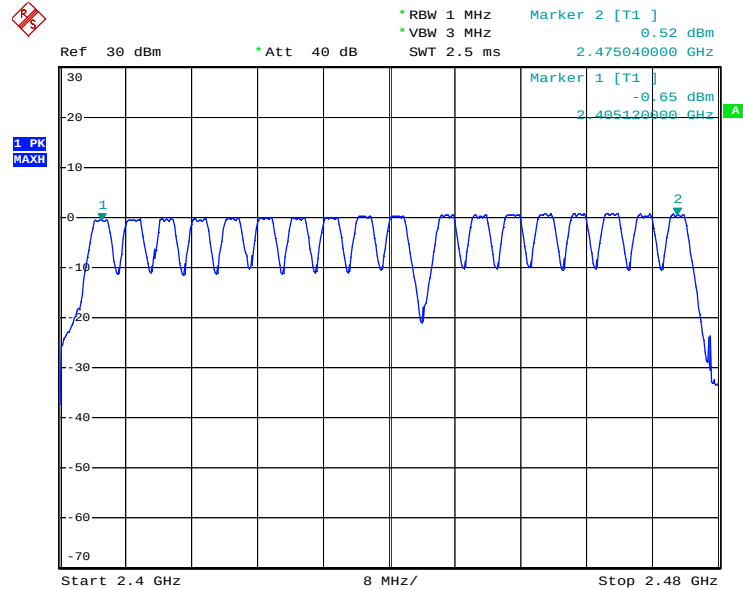
Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 20°C
Relative humidity : 48%
Atmospheric pressure : 101 kPa

Table 7: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2405</u> to <u>2477</u> MHz	18	≥ 15	Pass

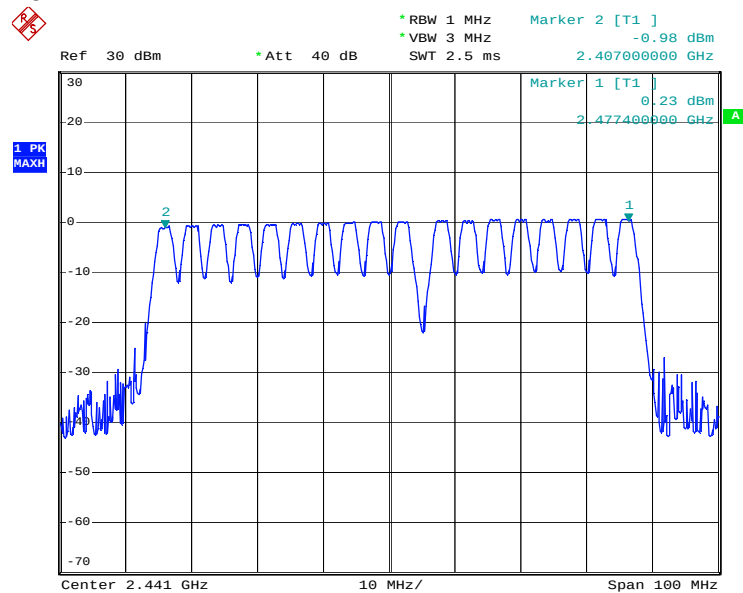
Test Plot of Number of hopping frequencies

Microphone No.1



Date: 21.NOV.2008 10:49:29

Microphone No.2



Date: 21.NOV.2008 10:36:42

5.1.8 Time of Occupancy

RESULT:**Passed**

Date of testing : 2008-11-21
Test standard : FCC part 15.247(a)(1)(iii)
RSS-210 A8.1 (d)
Basic standard : ANSI C63.4: 2003
Limits : 0.4s
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 20°C
Relative humidity : 48%
Atmospheric pressure : 101 kPa

Table 8: Test result of Time of Occupancy

Channel	Pulse width (μ s)	Measured Dwell time (s)	Limit (s)	Result
Low Channel	92	0.0022	0.4	Pass
Mid Channel	92	0.0022	0.4	Pass
High Channel	96	0.0023	0.4	Pass

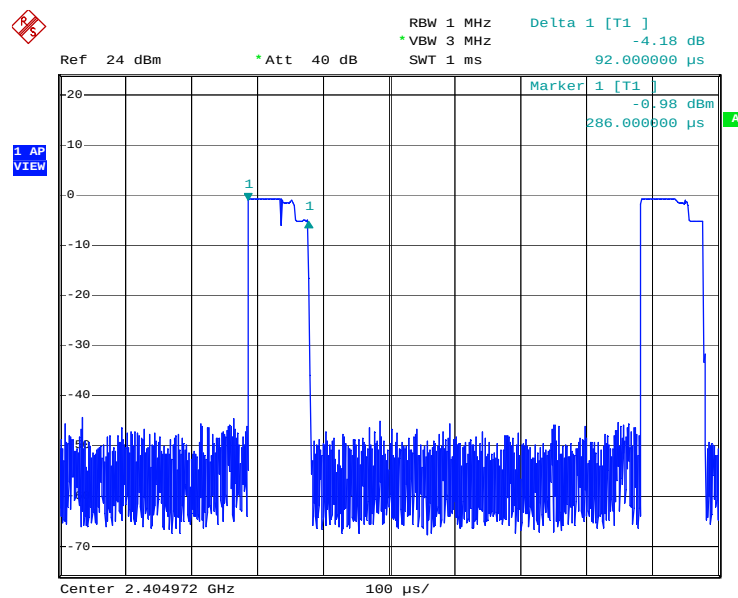
Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 (seconds/ channel) x 18 (channel) = 7.2 seconds

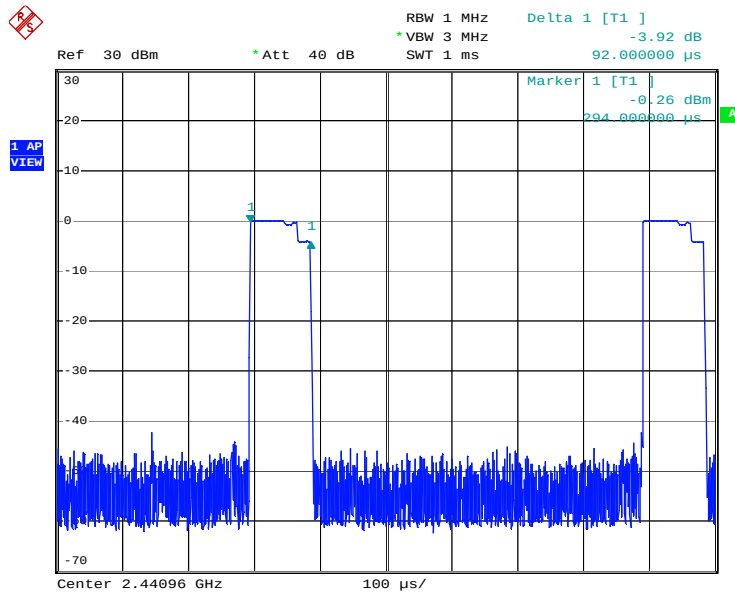
Test Plot of Time of Occupancy

Low Channel



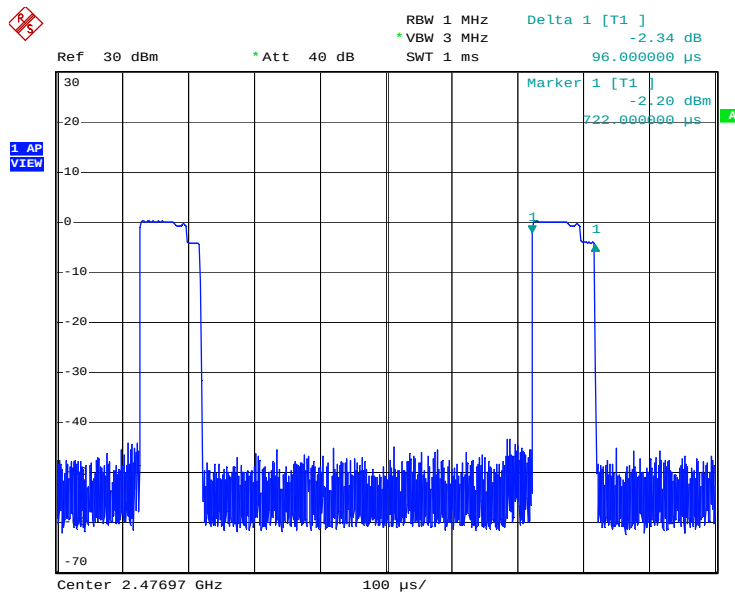
Date: 21.NOV.2008 09:53:17

Middle Channel



Date: 21.NOV.2008 10:13:24

High Channel



Date: 21.NOV.2008 10:24:52

5.1.9 Peak Power Density

RESULT:**Passed**

Date of testing : 2008-11-21
Test standard : FCC part 15.247(e)
Basic standard : ANSI C63.4: 2003
Limits : 8.0 dBm (in any 3kHz band)
Kind of test site : Shield room

Test setup

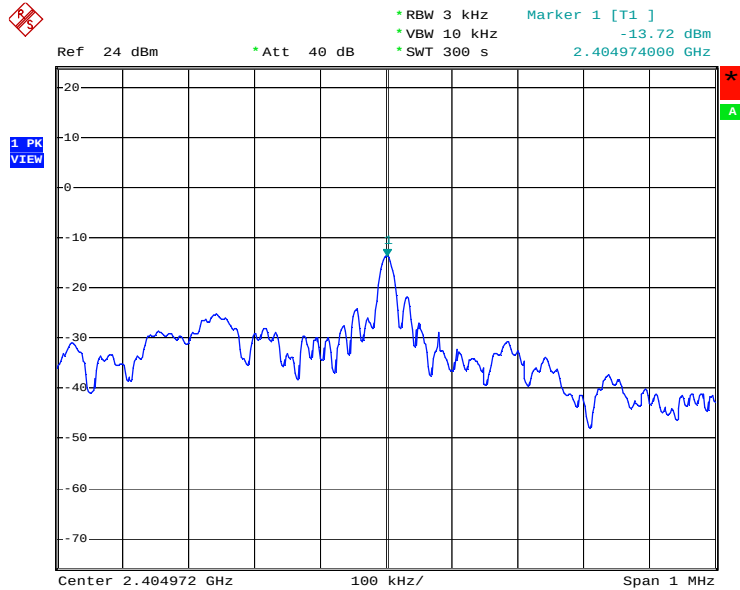
Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 20°C
Relative humidity : 48%
Atmospheric pressure : 101 kPa

Table 9: Test result of Peak Power Density

Channel	Channel Frequency (MHz)	Reading Power (dBm)	Limit (dBm)	Result
Low Channel	2405	-13.7	8	Pass
Mid Channel	2441	-13.3	8	Pass
High Channel	2477	-12.2	8	Pass

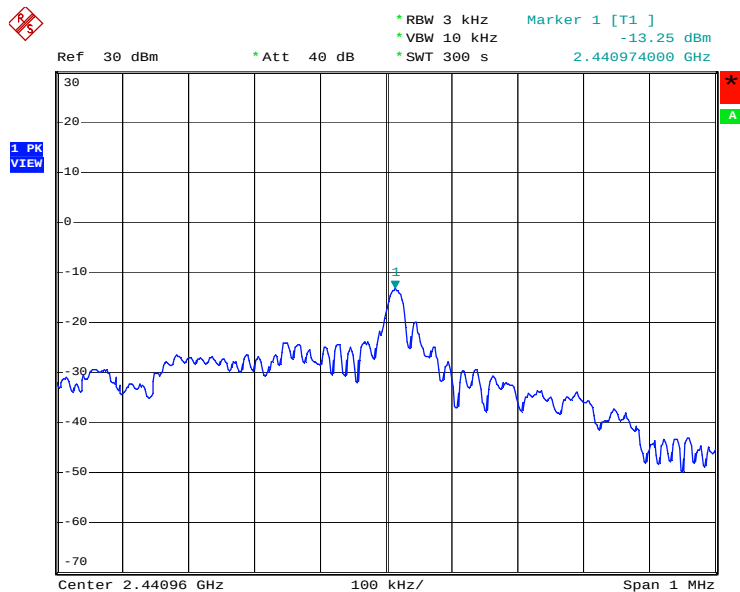
Test Plot of Peak Power Density

Low Channel



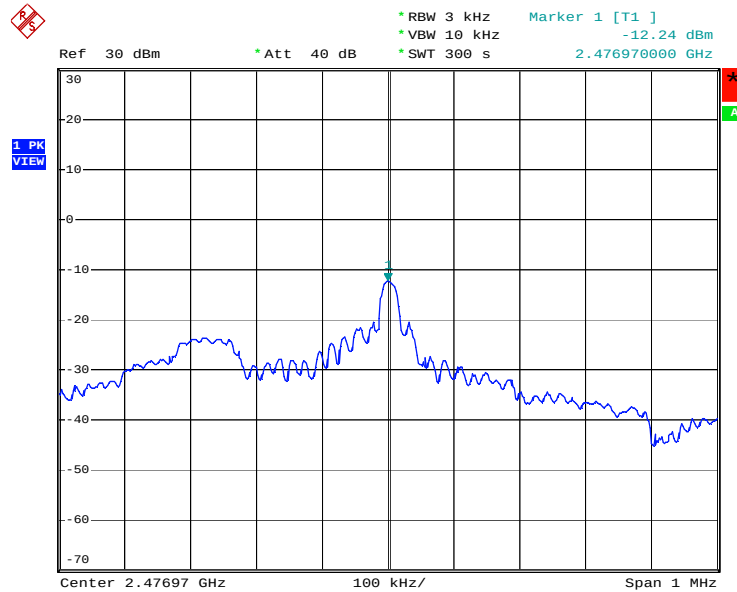
Date: 21.NOV.2008 10:06:09

Middle Channel



Date: 21.NOV.2008 10:19:47

High Channel



Date: 21.NOV.2008 10:31:43

5.1.10 Radiated emissions**RESULT:****Passed**

Date of testing	:	2008-09-24
Test standard	:	FCC Part 15.209 FCC Part 15.109 RSS-210 Clause 2.6
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	30 – 1000MHz
Limits	:	FCC Part 15.209(a) FCC Part 15.109(a) RSS-210 Table 2
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Input Voltage	:	DC 3V
Operation Mode	:	A+B
Earthing	:	Not Connected
Ambient temperature	:	22°C
Relative humidity	:	50%
Atmospheric pressure	:	100 kPa

For details refer to following test curves.

Test Plot of Radiated emissions, Horizontal

EMC32 Report

Test Information

Manufacturer Name:
Model Number:
Operating Conditions:
Comment:

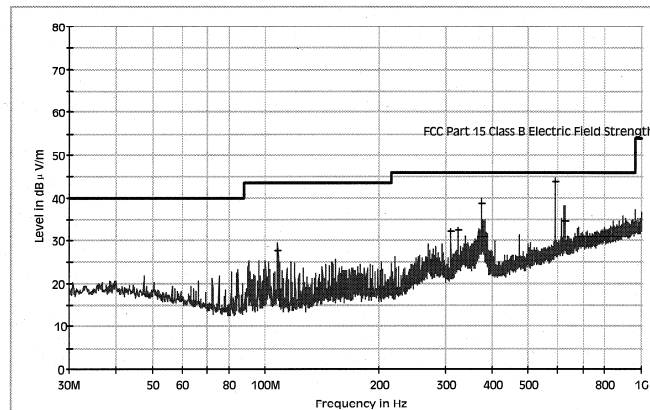
Namtai
SLEH-00089
D. Communicating with PS3
Horizontal



Subrange 1

Frequency Range:
Receiver:
Transducer:

30MHz - 1GHz
TUV ESCI 3
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
107.950000	27.8	9.7	15.7	43.5	H
310.950000	32.3	16.7	13.7	46.0	H
324.000000	32.5	17.2	13.5	46.0	H
375.000000	38.7	18.9	7.3	46.0	H
589.850000	43.9	23.9	2.1	46.0	H
624.950000	34.7	24.5	11.3	46.0	H



2008-09-04

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Test Plot of Radiated emissions, Vertical

EMC32 Report

Test Information

Manufacturer Name:
Model Number:
Operating Conditions:
Comment:

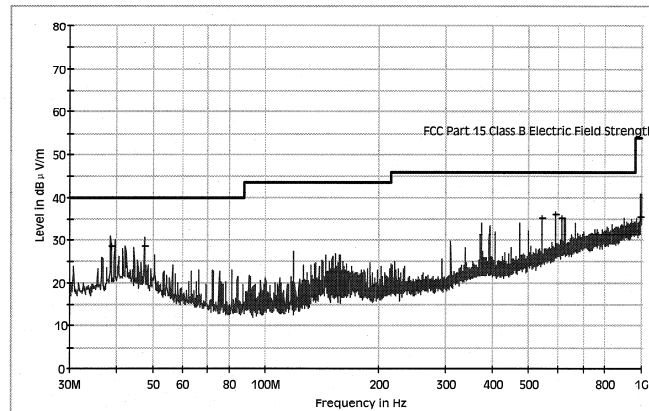
Namtai
SLEH-00089
D. Communicating with PS3
Vertical



Subrange 1

Frequency Range:
Receiver:
Transducer:

30MHz - 1GHz
TUV ESCI 3
TUV SAC UVLB 9168 / TUV ESCI3 - TUV SAC UVLB 9168



Limit and Margin FCC

Frequency (MHz)	QuasiPeak (dB μV/m)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)	Polarity
38.650000	28.5	14.4	11.5	40.0	V
47.550000	28.7	13.3	11.3	40.0	V
541.900000	35.2	22.4	10.8	46.0	V
589.850000	36.0	23.9	10.0	46.0	V
609.650000	35.2	24.3	10.8	46.0	V
996.050000	35.6	29.7	18.4	54.0	V



2008-09-04

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5.1.11 Restricted bands

RESULT:**Passed**

Date of testing	:	2008-09-24
Test standard	:	FCC Part 15.205 RSS-210 Clause 2.2
Basic standard	:	ANSI C63.4: 2003
Limits	:	FCC Part 15.205 RSS-210 Table 2 and 3
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Test Channel	:	Low/ High
Input Voltage	:	DC 3V
Operation Mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	22°C
Relative humidity	:	50%
Atmospheric pressure	:	100 kPa

For details refer to following test curves.

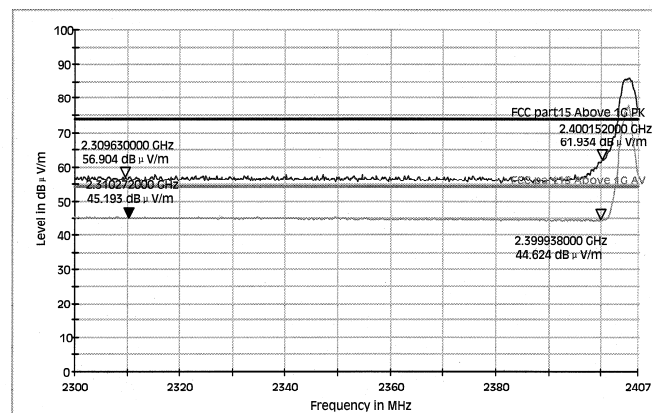
Test Plot of Radiated emissions in restricted bands, Horizontal, Mode A.1

EMC32 Report

Test Information

Manufacturer Name:	Namtai
Model Number:	SLEH-00089(MIC)
Operating Conditions:	TX_Low channel
Comment:	Horizontal
Subrange 1	
Frequency Range:	2.3GHz – 2.407GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

RBW = 1 MHz
VBW = 3 MHz
SWT = 100 ms



Test Plot of Radiated emissions in restricted bands, Vertical, Mode A.1

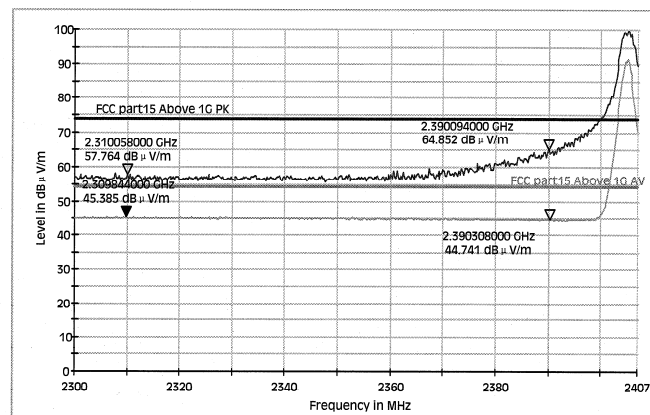
EMC32 Report

Test Information

Manufacturer Name:	Nantai
Model Number:	SLEH-00089(MIC)
Operating Conditions:	TX_Low channel
Comment:	Vertical

Subrange 1	
Frequency Range:	2.3GHz – 2.407GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

RBW = 1 MHz
VBW = 3 MHz
SWT = 100 ms



Test Plot of Radiated emissions in restricted bands, Horizontal, Mode A.3

EMC32 Report

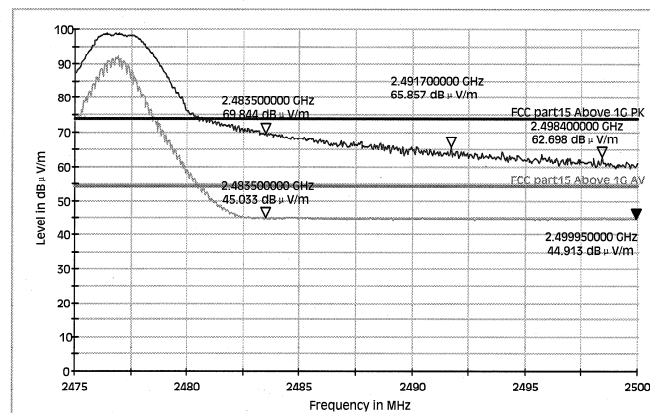
Test Information

Manufacturer Name:	Nantai
Model Number:	SLEH-00089(MIC)
Operating Conditions:	TX_High channel
Comment:	Horizontal

Subrange 1

Frequency Range:	2.475GHz – 2.5GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

RBW = 1 MHz
VBW = 3 MHz
SWT = 100 ms



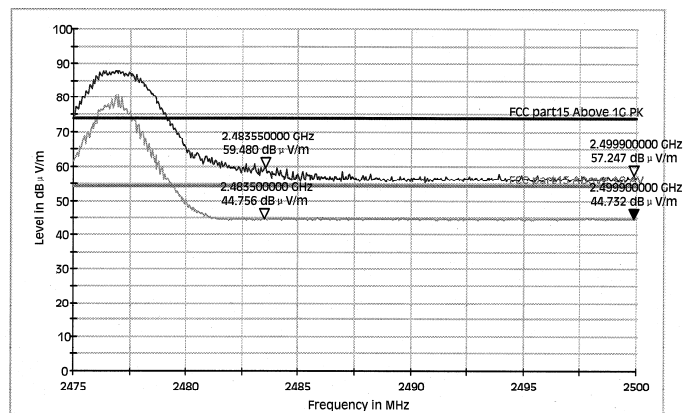
Test Plot of Radiated emissions in restricted bands, Vertical, Mode A.3

EMC32 Report

Test Information

Manufacturer Name:	Namtai
Model Number:	SLEH-00089(MIC)
Operating Conditions:	TX_High channel
Comment:	Vertical
Subrange 1	
Frequency Range:	2.475GHz – 2.5GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

RBW = 1 MHz
VBW = 3 MHz
SWT = 100 ms



2008-09-03

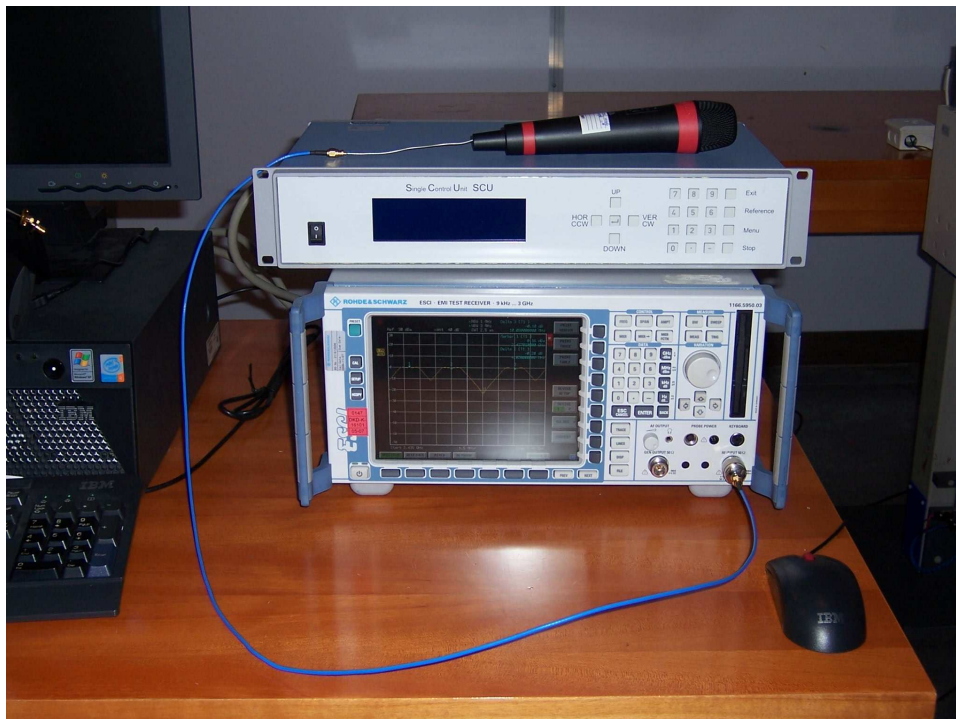
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6. Photographs of the Test Set-Up

Photograph 1: Set-up for Radiated Emissions



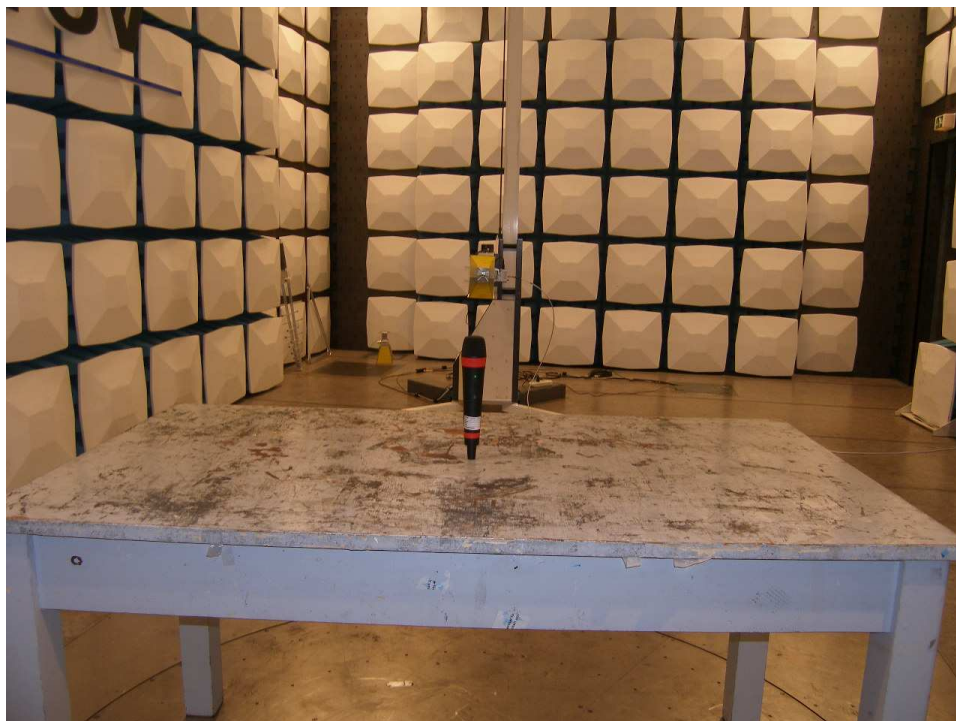
Photograph 2: Set-up for Transmitter test



Photograph 3: Set-up for Spurious Emissions (30MHz-1GHz)



Photograph 4: Set-up for Spurious Emissions (1GHz-18GHz)



Photograph 5: Set-up for Spurious Emissions (18GHz-26GHz)



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