



Test Report No.9012328334

Applicant: Alvarion Ltd.

Equipment Under Test:

***BreezeMAX 4Motion Broadband Wireless
Access System***

Issued by:

The Standards Institution of Israel

Industry Division

Electronics & Telematics Laboratory

EMC Branch



ACCLASS Accreditation Services
Certificate Number: AT-1359

**Test Report No.:** 9012328334**Page 1 of 60 Pages****Title:** Test on BreezeMAX 4Motion Broadband Wireless Access System**Model:** ODU-2485-2690-000N-38-2x2-N-0**FCC ID:** LKT-BMAX-2-OR-25

Applicant Information

Applicant:	Alvarion Ltd.
Address:	21A Habarzel str, Tel-Aviv, 69710, Israel
Sample for test selected by:	The customer
The date of test:	11/04, 30/04, 6/05, 10/05/2010;

EUT Information

Description of Equipment Under Test (EUT):	BreezeMAX 4Motion Broadband Wireless Access System
Model:	ODU-2485-2690-000N-38-2x2-N-0
Manufactured by:	Alvarion Ltd.

Test performance

Test Location:	SII EMC Laboratory
Purpose of test:	Apparatus compliance verification in accordance with emission requirements
Test specifications	- part 15 subpart B §§ 15.107, 15.109
FCC 47CFR:	- part 27 §§ 27.50, 27.53, 27.54
	- part 2 §§ 2.1049, 2.1051, 2.1053, 2.1055
	- part 1 §1.1310

This Test Report contains 60 pages
and may be used only in its entirety.

This Test Report applies only to the specimen tested and may not
be applied to other specimens of the same product.

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1. Summary of Test Results


The EUT was found to be in compliance with requirements of FCC 47CFR:

- part 27: §§ 27.50, 27.53, 27.54
- part 2: §§ 2.1049, 2.1051, 2.1053, 2.1055
- part 15 §§ 15.107, 15.109.

Measured characteristics	Reference sec.
Transmitter characteristics	
Occupied bandwidth	Part 2.1049
Peak output power	Part 27.50
Peak power spectral density	Part 27.50
Spurious emissions at antenna terminal	Part 27.53
Spurious emissions radiated	Part 27.53
Frequency stability	Part 27.54
Radiated emissions below 1 GHz	Part 15.109
Conducted emissions on 120VAC mains	Part 15.107


Approved by: Eng. Yuri Rozenberg
Position: Head of EMC Branch

Electronics and Telematics
Laboratory
June 14, 2010


Tested by: Michael Feldman
Position: Testing Technician


Written by: Galit Gorodetsky
Position: Technical Writer

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Title: Test on BreezeMAX 4Motion Broadband Wireless Access System

Model: ODU-2485-2690-000N-38-2x2-N-0

FCC ID: LKT-BMAX-2-OR-25

2. EUT Description

Note: All information in this section was provided by the customer.

BreezeMAX 4M 2.5GHz is digital modulated TDD system operating in the two frequency bands.

The frequency range of the BMAX 4M 2.5GHz is 2485MHz up to 2690MHz, it is divided into two sub bands:

2485 MHz-2495 MHz sub-band and 2496 – 2690 MHz sub-band, nominal power 38 dBm at transmitter antenna connector.

The system contains a base station unit and a subscriber unit.

The basic system configuration is a two-box configuration that contains

1. Indoor unit that contains the IF unit, digital card, power supply and modem.
2. Outdoor unit contain the radio and digital control section unit.

EUT technical characteristics

Transmitter technical characteristics		Note	
Stand-alone/fixed use		Always at distance more than 2 m from all people	
Assigned frequency range	2496MHz-2690MHz		
Operating frequency band	2498.5-2687.5	5 MHz channel spacing	
	2501-2685	10 MHz channel spacing	
	2506-2680	20 MHz channel spacing	
RF channel spacing	5MHz; 10MHz; 20MHz		
Antenna connection	Standard connector N-Type	Professional installation	
Type of modulation	BPSK, 4QAM, 16QAM, 64QAM		
Type of multiplexing	OFDM		
Modulating test signal (baseband)	PRBS		
Maximum transmitter duty cycle in normal use	60 %		
Transmitter duty cycle supplied for test	60 %		
Antenna technical characteristics			
Type	Mfr	Model	Gain
Remote Tilt Panel	Argus Technologies	LPX310RT	18 dBi

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Title: Test on BreezeMAX 4Motion Broadband Wireless Access System

Model: ODU-2485-2690-000N-38-2x2-N-0

FCC ID: LKT-BMAX-2-OR-25

Setup to BMAX-4M 2x2 2.5G With IF MUX

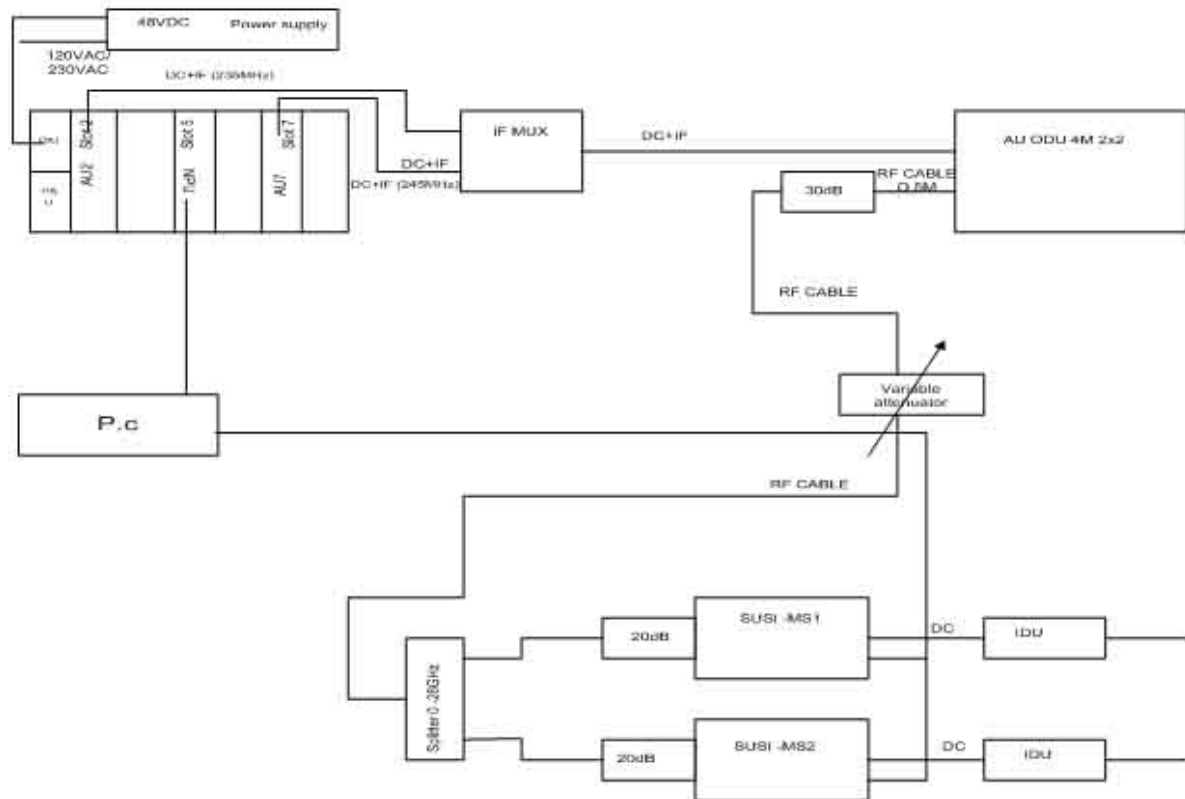


Figure 1 EUT test configuration

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Title: Test on BreezeMAX 4Motion Broadband Wireless Access System

Model: ODU-2485-2690-000N-38-2x2-N-0

FCC ID: LKT-BMAX-2-OR-25

3. Test Results

3.1. Transmitter occupied bandwidth according to §.2.1049

Method of measurement	ANSI 63.4 §13.1.7		
Operating frequency range:	2498.5 MHz-2687.5 MHz		
Ambient Temperature 21° C	Relative Humidity 47%	Air Pressure 1006 hPa	

EUT: BMAX-4M-ODU-2X2

Channel spacing =5MHz and 10MHz

Table 1. BMAX-4M-ODU-2X2 Occupied Bandwidth

BW MHz	Frequency operation MHz	Measured Occupied Bandwidth MHz	Reference to plot #
5	2498.5	4.58	1
	2593	4.58	2
	2687.5	4.58	3
10	2501	9.11	4
	2593	9.11	5
	2685	9.11	6

EUT: BMAX-4M-ODU-2X2 with IF MUX

Channel spacing =20MHz

Table 2. BMAX-4M-ODU-2X2 with IF MUX Occupied Bandwidth

BW MHz	Frequency operation MHz	Measured Occupied Bandwidth MHz	Reference to plot #
20	2506	19.11	7
	2593	19.09	8
	2680	19.07	9

Test Procedure:

The measurements were performed in normal (transmitting) mode at all transmitted carrier (channel) frequencies of the 2496MHz-2690MHz frequency range under maximum data transfer bit rate. The EUT RF output was connected to the Spectrum Analyzer through appropriate attenuator and accounted with cable loss in SA settings.

Test Equipment Used:

1	2	3
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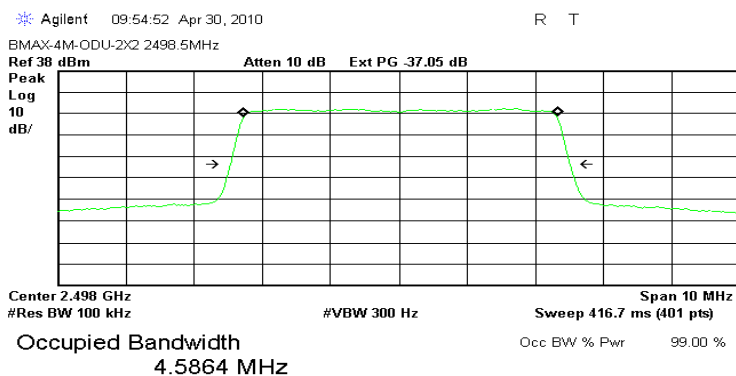
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Model: ODU-2485-2690-000N-38-2x2-N-0

FCC ID: LKT-BMAX-2-OR-25

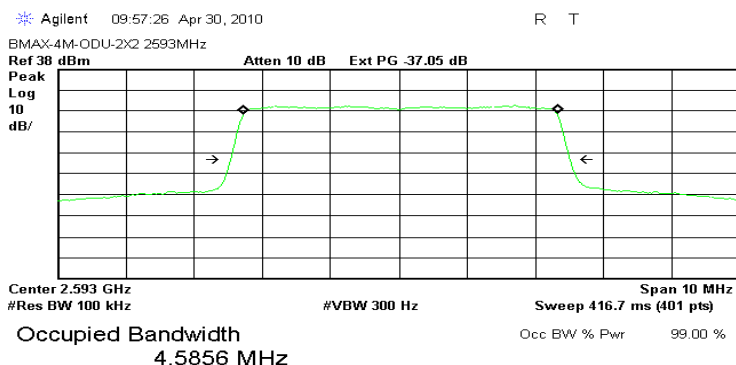
BMAX-4M-ODU-2X2

Occupied bandwidth test results. BW = 5MHz



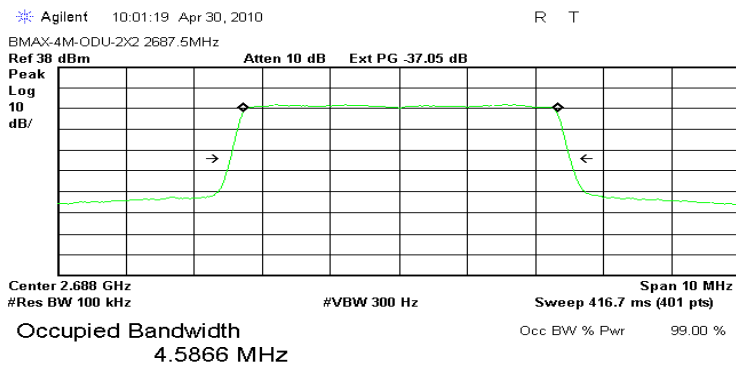
Transmit Freq Error 22.789 kHz
x dB Bandwidth 4.978 MHz

Plot # 1. Bottom frequency 2498.5MHz



Transmit Freq Error 23.246 kHz
x dB Bandwidth 4.974 MHz

Plot # 2. Middle frequency 2593MHz



Transmit Freq Error 20.206 kHz
x dB Bandwidth 4.977 MHz

Plot # 3. Top frequency 2687.5MHz



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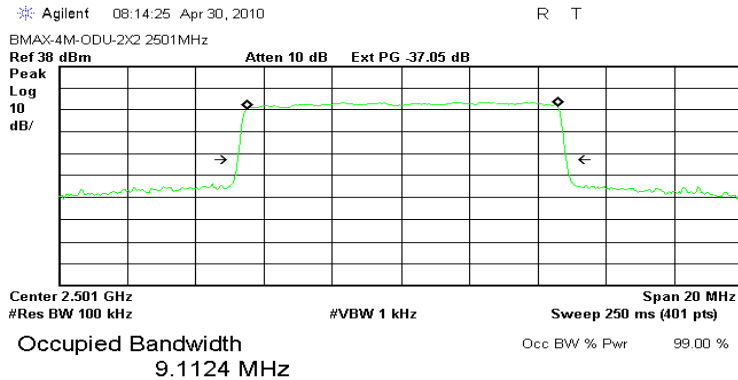
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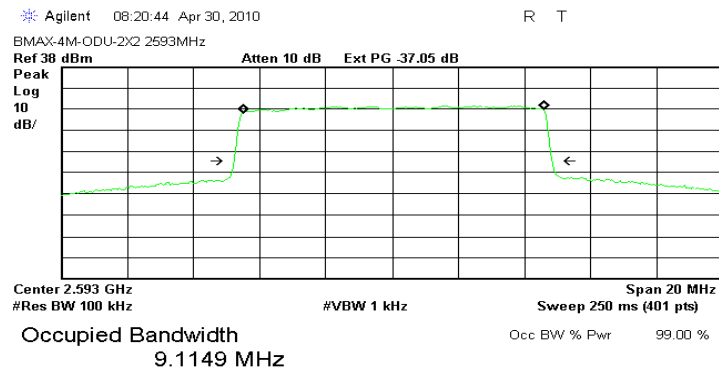
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BMAX-4M-ODU-2X2

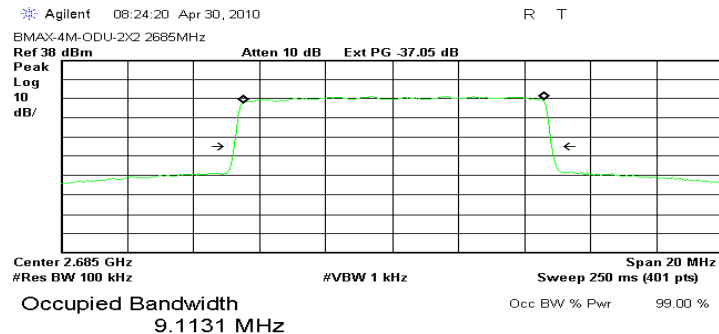
Occupied bandwidth test results BW = 10MHz



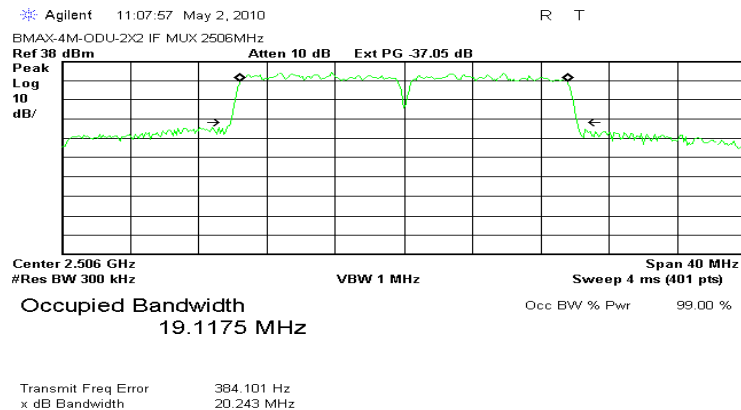
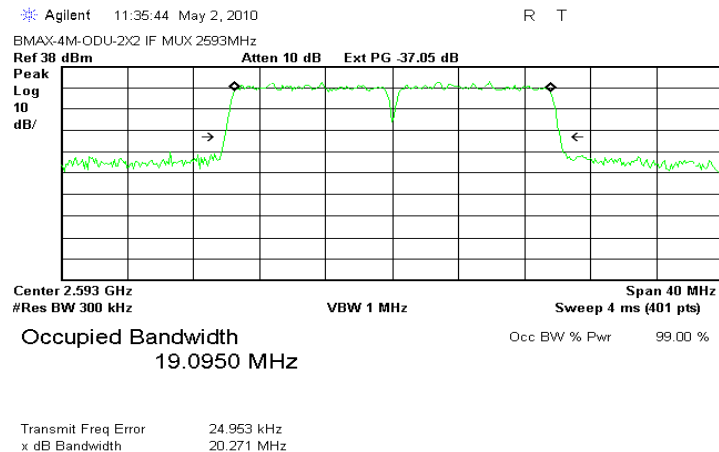
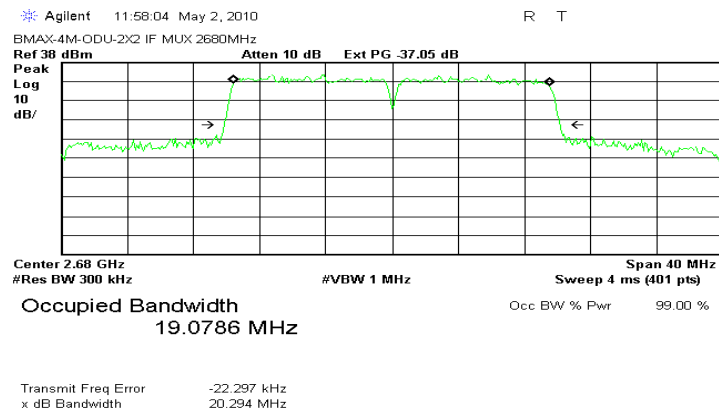
Plot # 4. Bottom frequency 2501MHz



Plot # 5. Middle frequency 2593MHz



Plot # 6. Top frequency 2685MHz

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Occupied bandwidth test results BW = 20MHz****Plot # 7. Bottom frequency 2506MHz****Plot # 8. Middle frequency 2593MHz****Plot # 9. Top frequency 2680MHz**

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Title: Test on BreezeMAX 4Motion Broadband Wireless Access System

Model: ODU-2485-2690-000N-38-2x2-N-0

FCC ID: LKT-BMAX-2-OR-25

3.2. Transmitter peak output power according to §.27.50(h) (1) (ii)

Operating frequency range:	2498.5 MHz-2687.5 MHz		
Ambient Temperature 21° C	Relative Humidity 47%	Air Pressure 1006 hPa	

Table 3. BMAX-4M-ODU-2X2 Peak EIRP power test results

BW MHz	Frequency operation MHz	Peak output power dBm	EIRP power (+18dBi antenna gain) dBm	EIRP limit dBm	Margin, dB	Reference to plot #
5	2498.5	36.9	54.9	69.6	14.7	10
	2593	37.1	55.1	69.6	14.5	11
	2687.5	36.5	54.5	69.6	15.1	12
10	2501	38.8	56.8	72.6	15.8	13
	2593	39.1	57.1	72.6	15.5	14
	2685	39.0	57.0	72.6	15.6	15

Table 4. BMAX-4M-ODU-2X2 with IF MUX Peak EIRP power test results

BW MHz	Frequency operation MHz	Peak output power dBm	EIRP power (+18dBi antenna gain) dBm	EIRP limit dBm	Margin, dB	Reference to plot #
20	2506	37.2	55.2	75.65	20.45	16
	2593	36.0	54.0	75.65	21.65	17
	2680	36.5	54.5	75.65	21.15	18

Limit:

The maximum EIRP in dBW in a given direction shall be determined by the following formula:
 $EIRP = 33 \text{ dBW} + 10 \log(X/Y) \text{ dBW} + 10 \log(360/\text{beamwidth}) \text{ dBW}$, where X is the actual channel width in MHz, Y is 6 MHz.

For 5 MHz channel spacing $EIRP = 33 \text{ dBW} + 10 \log(5/6) + 10 \log(360/65^\circ) = 69.6 \text{ dBm}$

For 10 MHz channel spacing $EIRP = 33 \text{ dBW} + 10 \log(10/6) \text{ dBW} + 10 \log(360/65^\circ) = 72.6 \text{ dBm}$.

For 20 MHz channel spacing $EIRP = 33 \text{ dBW} + 10 \log(20/6) \text{ dBW} + 10 \log(360/65^\circ) = 75.65 \text{ dBm}$.

Test Procedure:

The measurements were performed in normal (transmitting) mode at all transmitted carrier (channel) frequencies of the 2496MHz-2690MHz frequency range under maximum data transfer bit rate. The EUT RF output was connected to the Spectrum Analyzer through appropriate attenuator and accounted with cable loss in SA settings. The calculation of measured EIRP with external antenna was performed as follows: Plot result + Ant. gain.

Test Equipment Used:

1	2	3	4
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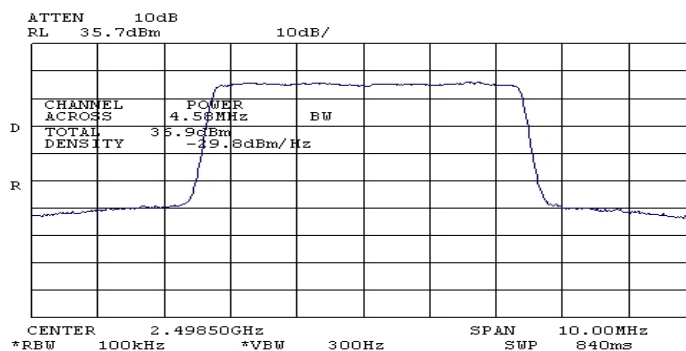
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Model: ODU-2485-2690-000N-38-2x2-N-0

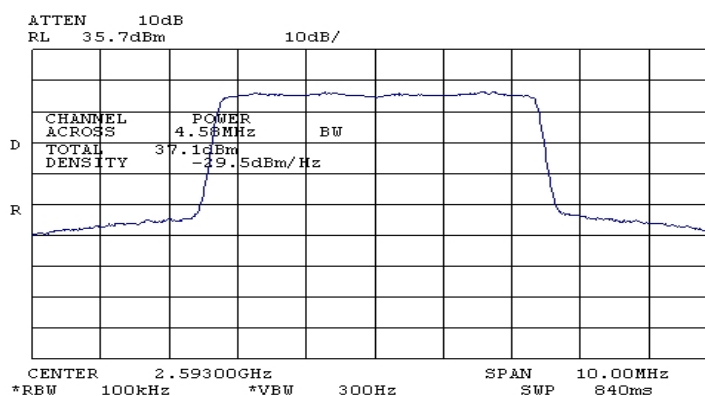
FCC ID: LKT-BMAX-2-OR-25

BMAX-4M-ODU-2X2

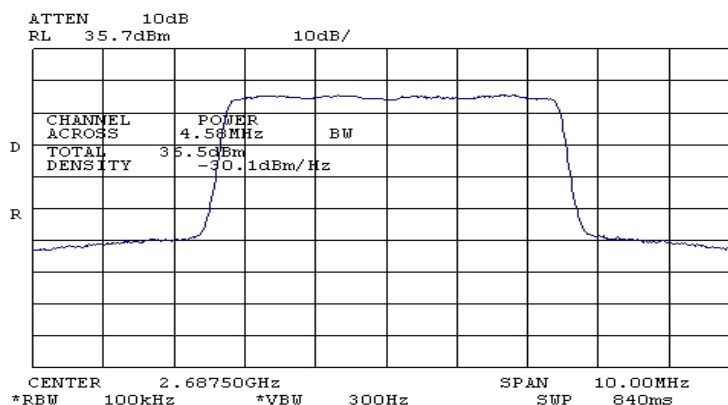
Peak transmit power test results BW = 5MHz



Plot # 10. Bottom frequency 2498.5MHz



Plot # 11. Middle frequency 2593MHz



Plot # 12. Top frequency 2687.5MHz



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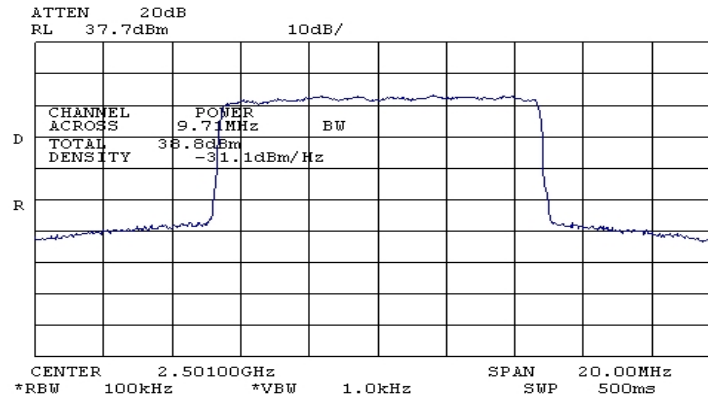
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Model: ODU-2485-2690-000N-38-2x2-N-0

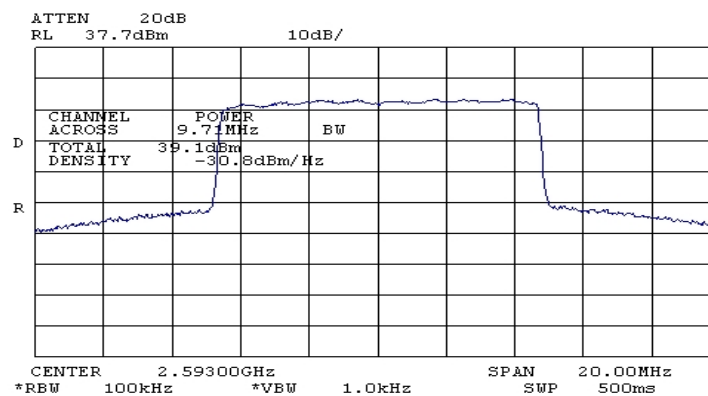
FCC ID: LKT-BMAX-2-OR-25

BMAX-4M-ODU-2X2

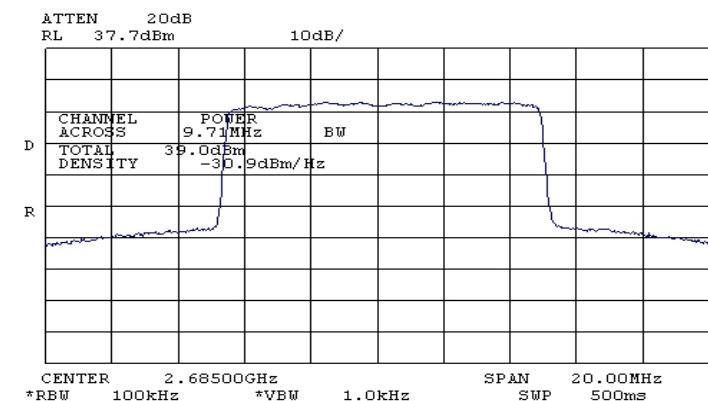
Peak transmit power test results BW = 10MHz



Plot # 13. Bottom frequency 2501MHz



Plot # 14. Middle frequency 2593MHz



Plot # 15. Top frequency 2685MHz



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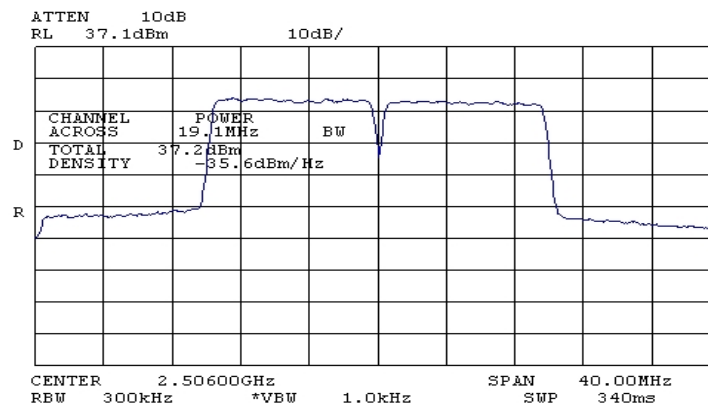
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Title: Test on BreezeMAX 4Motion Broadband Wireless Access System

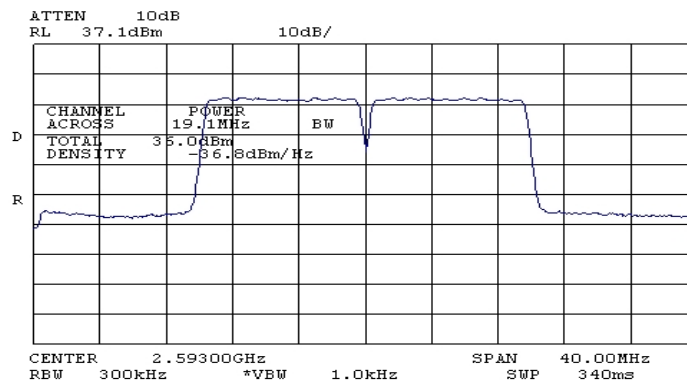
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FCC ID: LKT-BMAX-2-OR-25

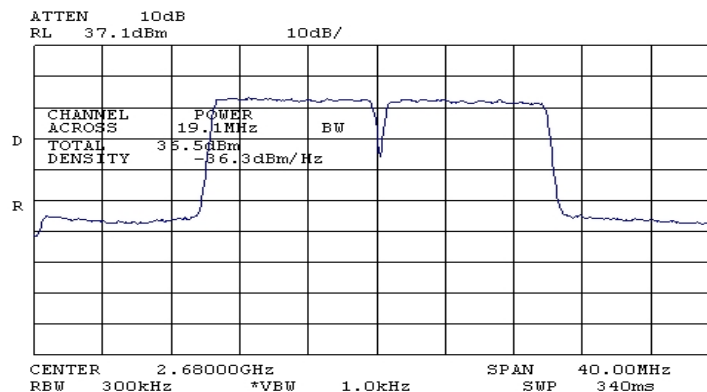
BMAX-4M-ODU-2X2 with IF MUX
Peak transmit power test results BW = 20MHz



Plot # 16. Bottom frequency 2506MHz



Plot #17. Middle frequency 2593MHz



Plot #18. Top frequency 2680MHz

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Title: Test on BreezeMAX 4Motion Broadband Wireless Access System

Model: ODU-2485-2690-000N-38-2x2-N-0

FCC ID: LKT-BMAX-2-OR-25

3.3. Transmitter spectral power density according to §.27.509(h) (4)

Operating frequency range:	2498.5 MHz-2687.5 MHz		
Ambient Temperature 21° C	Relative Humidity 47%	Air Pressure 1006 hPa	

Table 5. BMAX-4M-ODU-2X2 Spectral power density

BW MHz	Frequency operation MHz	Spectral power density dBm	PSD limit dBm	Margin, dB	Reference to plot #
5	2498.5	21.70	28.0	6.30	19
	2593	21.87	28.0	6.13	20
	2687.5	21.37	28.0	6.63	21
10	2501	19.87	25.0	5.13	22
	2593	21.03	25.0	3.97	23
	2685	19.70	25.0	5.30	24

Table 6. BMAX-4M-ODU-2X2 with IF MUX Spectral power density

BW MHz	Frequency operation MHz	Spectral power density dBm	PSD limit dBm	Margin, dB	Reference to plot #
20	2506	20.72	22.0	1.28	25
	2593	19.22	22.0	2.78	26
	2680	20.22	22.0	1.78	27

Limit:

According to standard requirements power spectral density in any 100 kHz segment of the channel bandwidth is limited to EIRP power/ (bandwidth/RBW).

For 5 MHz channel spacing $2000W/50 = 40W$. At antenna terminal $46dBm - 18 dBi = 28 dBm$.

For 10 MHz channel spacing $2000W/100 = 20W$. At antenna terminal $43 dBm - 18 dBi = 25 dBm$.

For 20 MHz channel spacing $2000W/200 = 10W$. At antenna terminal $40 dBm - 18 dBi = 22 dBm$.

Test Procedure:

The measurements were performed in normal (transmitting) mode at all transmitted carrier (channel) frequencies of the 2496MHz-2690MHz frequency range under maximum data transfer bit rate. The EUT RF output was connected to the Spectrum Analyzer through appropriate attenuator and accounted with cable loss in SA settings.

Test Equipment Used:

1	2	3	4
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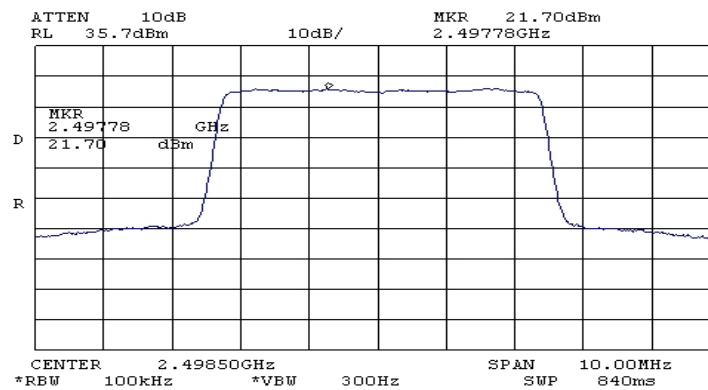
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Model: ODU-2485-2690-000N-38-2x2-N-0

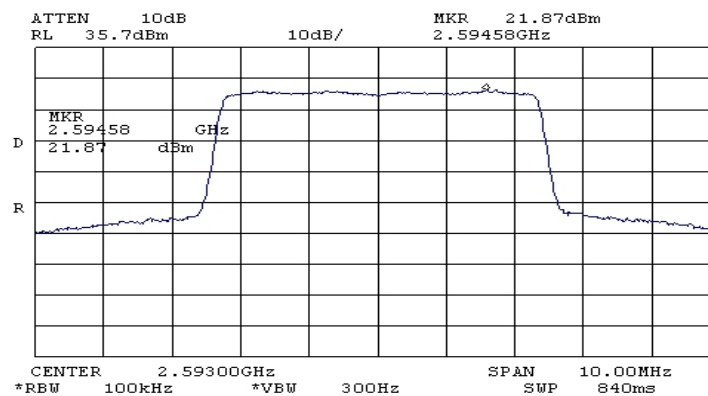
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BMAX-4M-ODU-2X2

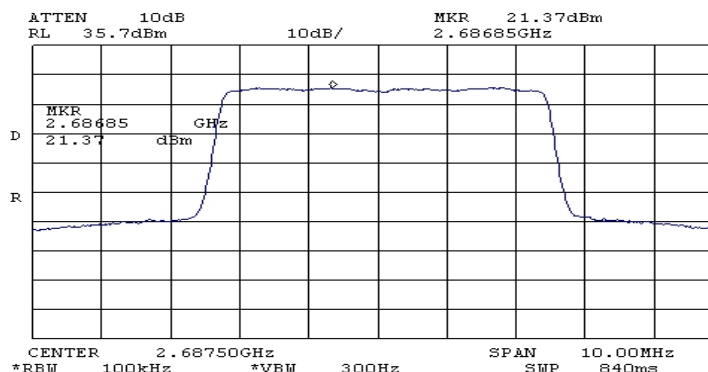
Peak power spectral density test results BW = 5MHz



Plot # 19. Bottom frequency 2498.5MHz



Plot # 20. Middle frequency 2593MHz



Plot # 21. Top frequency 2687.5MHz

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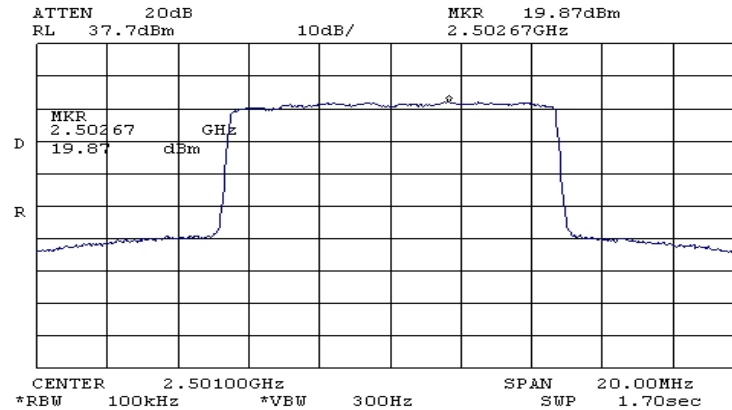
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Model: ODU-2485-2690-000N-38-2x2-N-0

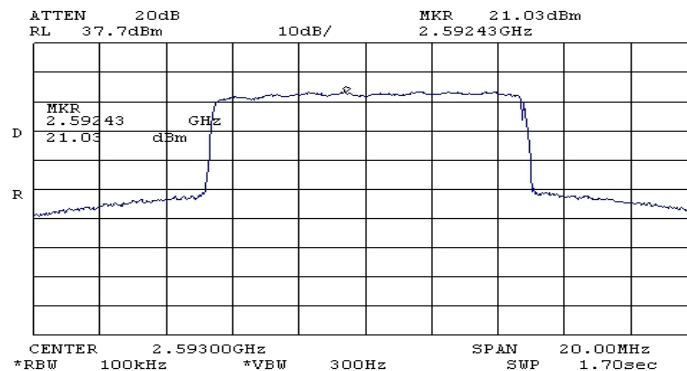
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BMAX-4M-ODU-2X2.

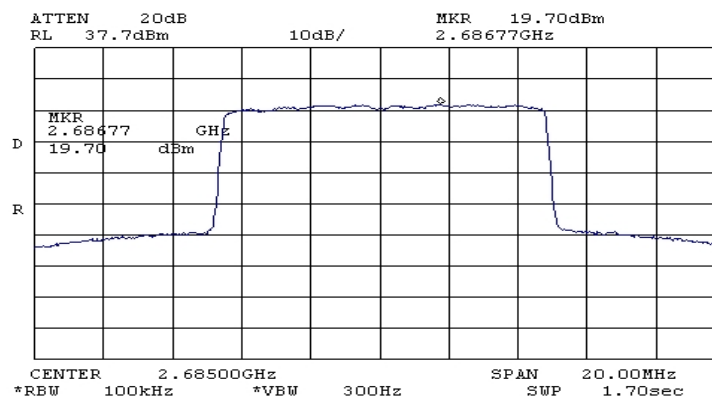
Peak power spectral density test results BW = 10MHz



Plot # 22. Bottom frequency 2501MHz



Plot # 23. Middle frequency 2593MHz



Plot # 24. Top frequency 2685MHz

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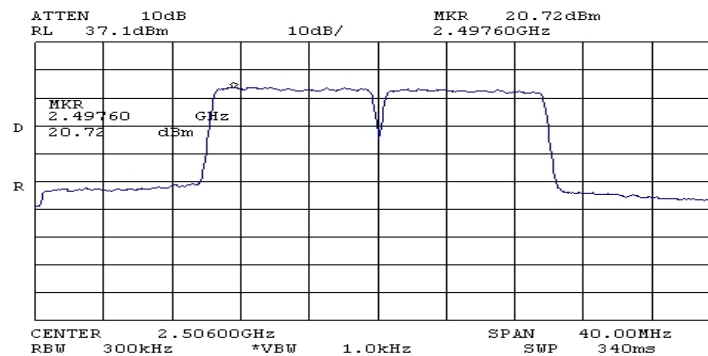
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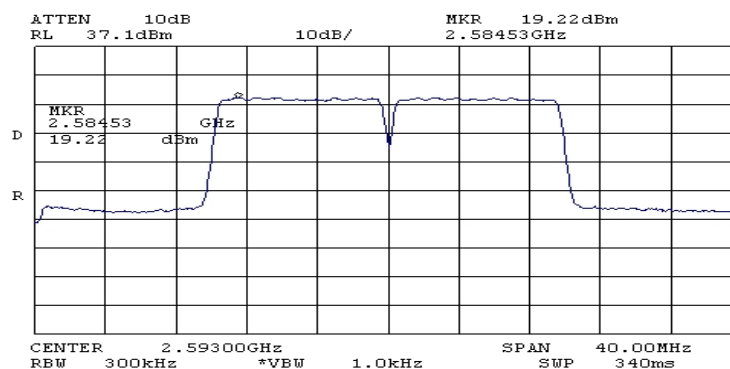
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FCC ID: LKT-BMAX-2-OR-25

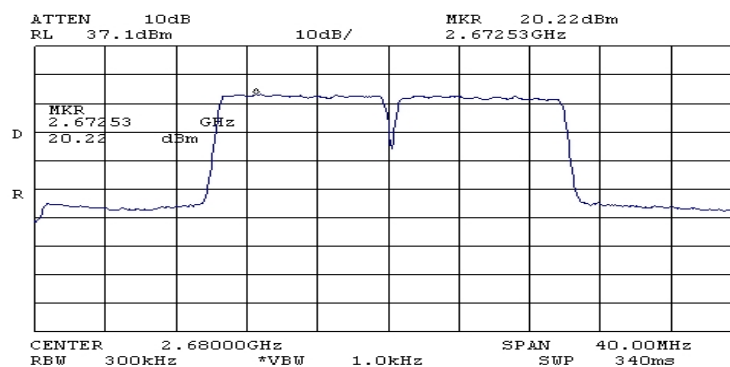
BMAX-4M-ODU-2X2 with IF MUX.
Peak power spectral density test results BW = 20MHz



Plot # 25. Bottom frequency 2506MHz



Plot #26. Middle frequency 2593MHz



Plot #27. Top frequency 2680MHz

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Model: ODU-2485-2690-000N-38-2x2-N-0

FCC ID: LKT-BMAX-2-OR-25

3.4. Transmitter spurious emissions at antenna terminal according to §.27.53

Operating frequency range:	2498.5 MHz-2687.5 MHz		
Ambient Temperature 21 ⁰ C	Relative Humidity 47%	Air Pressure 1006 hPa	

The frequency spectrum was investigated from the lowest radio frequency signal generated in the equipment, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency. The EUT emissions which level was more than 20 dB lower than the specified limit were not recorded in the tables.

EUT: BMAX-4M-ODU-2X2

Channel spacing – 5MHz

Carrier frequency = 2498.5

Frequency range MHz	Measured emissions dBm	Limit dBm	Margin, dB	Reference to plot #
2495-2496	-20.2	-13	7.2	30
2501-2502	-22.8	-13	9.8	32

Carrier frequency = 2593

Frequency range MHz	Measured emissions dBm	Limit dBm	Margin, dB	Reference to plot #
2585-2589	-25.6	-13	12.6	38
2595-2596	-20.3	-13	7.3	39

Carrier frequency = 2687.5

Frequency range MHz	Measured emissions dBm	Limit dBm	Margin, dB	Reference to plot #
2684-2685	-22.8	-13	9.8	44
2690-2691	-22.6	-13	9.6	46

Channel spacing – 10MHz

Carrier frequency = 2501

Frequency range MHz	Measured emissions dBm	Limit dBm	Margin, dB	Reference to plot #
2495-2496	-21.5	-13	8.5	51
2506-2507	-22.2	-13	9.2	53

Carrier frequency = 2593

Frequency range MHz	Measured emissions dBm	Limit dBm	Margin, dB	Reference to plot #
2587-2588	-19.4	-13	6.4	58
2598-2599	-19.6	-13	6.6	60

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Frequency range MHz	Measured emissions dBm	Limit dBm	Margin, dB	Reference to plot #
2679-2680	-22.8	-13	9.8	65
2690-2691	-21.9	-13	8.9	67

EUT: BMAX-4M-ODU-2X2 with IF MUX**Channel spacing – 20MHz****Carrier frequency = 2506**

Frequency range MHz	Measured emissions dBm	Limit dBm	Margin, dB	Reference to plot #
2495-2496	-16.6	-13	3.6	72
2516-2517	-22.4	-13	9.4	74

Carrier frequency = 2593

Frequency range MHz	Measured emissions dBm	Limit dBm	Margin, dB	Reference to plot #
2582-2583	-23.8	-13	10.8	79
2603-2604	-25.7	-13	12.7	81

Carrier frequency = 2680

Frequency range MHz	Measured emissions dBm	Limit dBm	Margin, dB	Reference to plot #
2669-2670	-19.3	-13	6.3	86
2690-2691	-21.2	-13	8.2	88

All measured results are shown in plots ## 28 -90.

Limit

For operation in the declare 2496MHz-2690MHz band, the power of any emissions outside the authorized frequency band of operation shall be attenuated below the transmitter power (P) measured in watts, by the factor not less than: $43+10\log(P)$ dB = -13 dBm.

Test Procedure

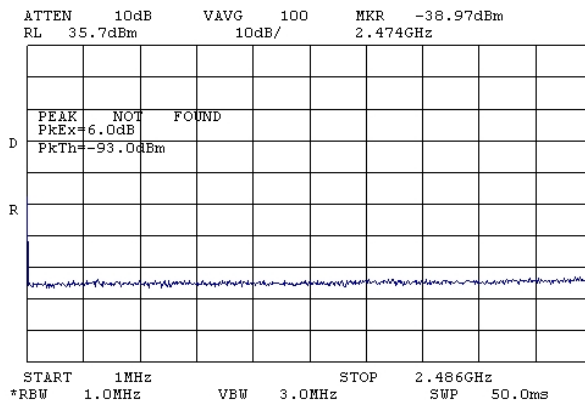
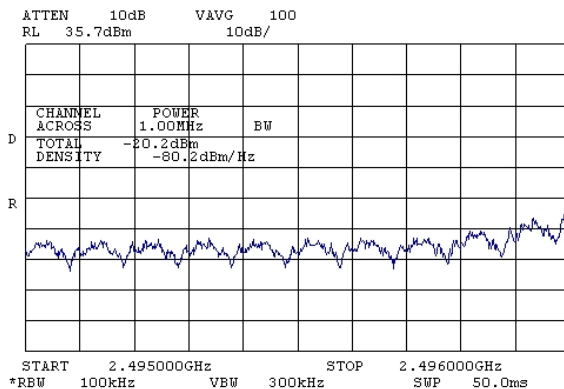
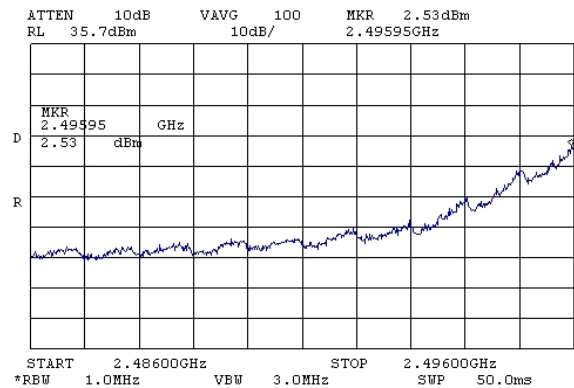
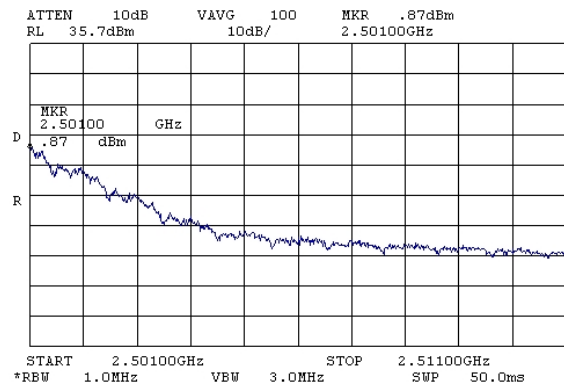
The measurements were performed in normal (transmitting) mode at all transmitted carrier (channel) frequencies of the 2496MHz-2690MHz frequency range under maximum data transfer bit rate. The EUT RF output was connected to the Spectrum Analyzer through appropriate attenuator and accounted with cable loss in SA settings.

Test Equipment Used:

1	2	3	4
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BMAX-4M-ODU-2X2
Spurious emissions at antenna terminal
BW = 5MHz

Bottom frequency 2498.5MHz**Plot # 28****Plot # 30****Plot # 29****Plot # 31**



Test Report No.: 9012328334

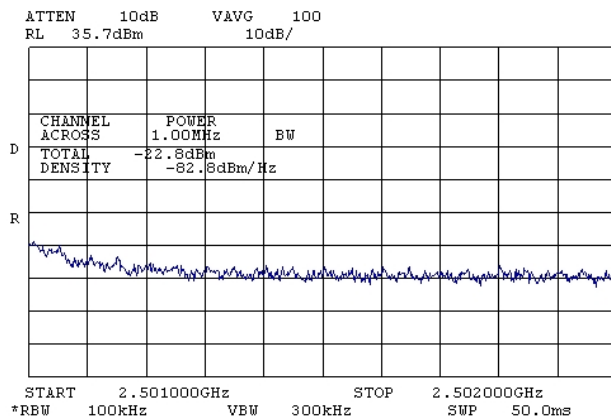
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Title: Test on BreezeMAX 4Motion Broadband Wireless Access System

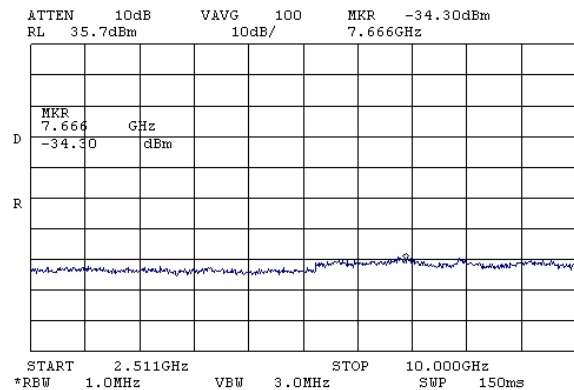
Model: ODU-2485-2690-000N-38-2x2-N-0

FCC ID: LKT-BMAX-2-OR-25

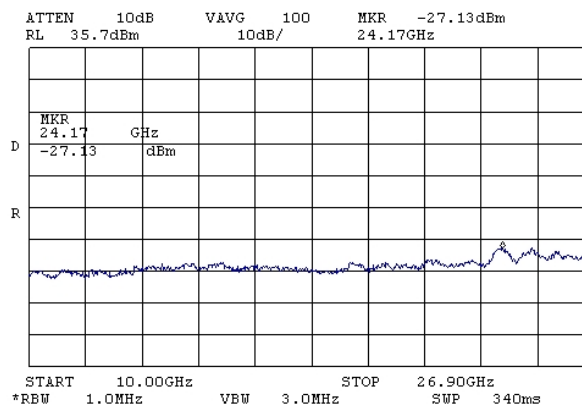
BMAX-4M-ODU-2X2
Spurious emissions at antenna terminal
BW = 5MHz

Bottom frequency 2498.5MHz

Plot #32



Plot # 33

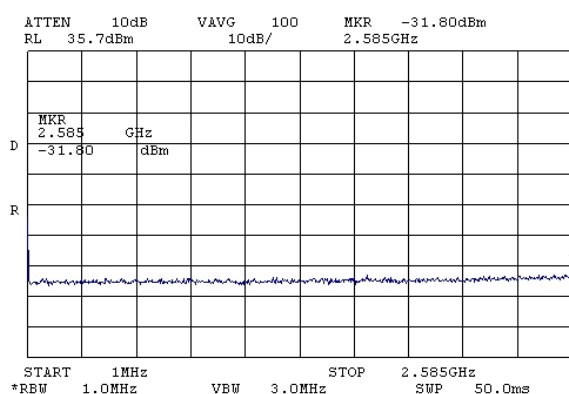
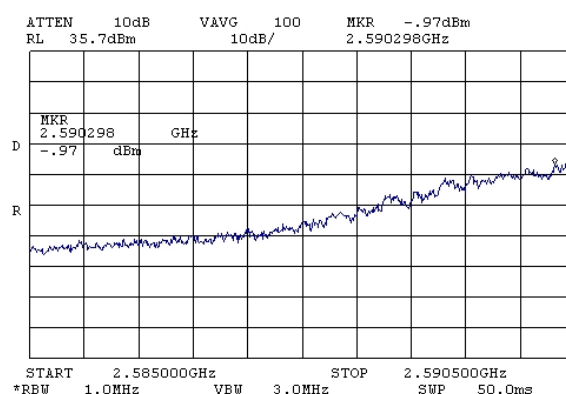
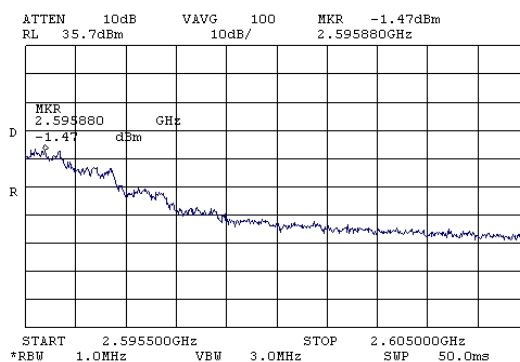


Plot # 34

**Test Report No.: 9012328334****Page 22 of 60 Pages****Title: Test on BreezeMAX 4Motion Broadband Wireless Access System****Model: ODU-2485-2690-000N-38-2x2-N-0****FCC ID: LKT-BMAX-2-OR-25**

BMAX-4M-ODU-2X2
Spurious emissions at antenna terminal
BW = 5MHz

Middle frequency 2593MHz

**Plot # 35****Plot # 36****Plot # 37**



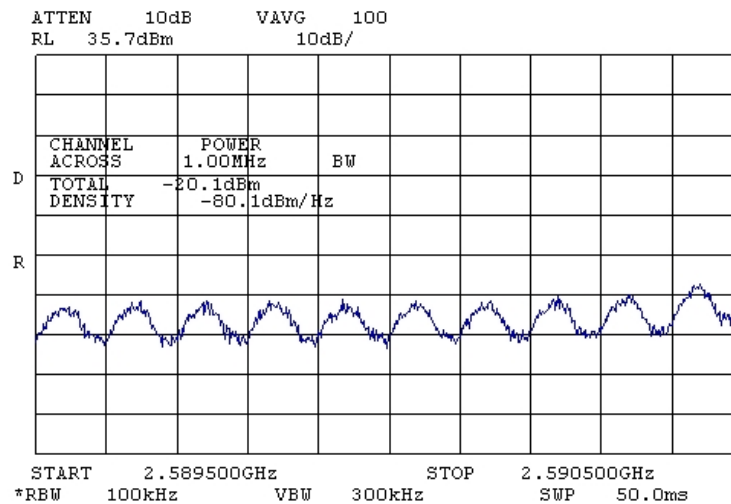
Test Report No.: 9012328334

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Title: Test on BreezeMAX 4Motion Broadband Wireless Access System

Model: ODU-2485-2690-000N-38-2x2-N-0

FCC ID: LKT-BMAX-2-OR-25

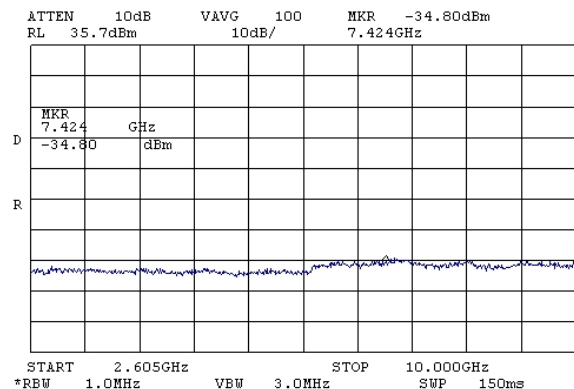
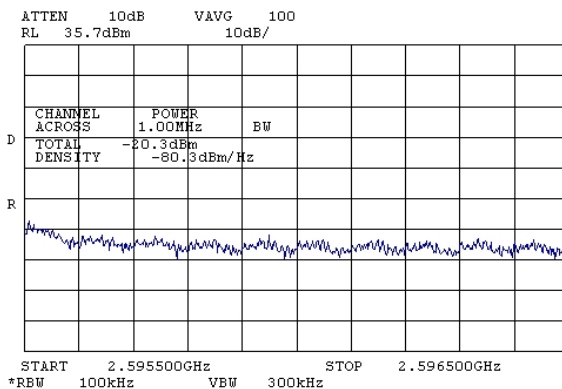
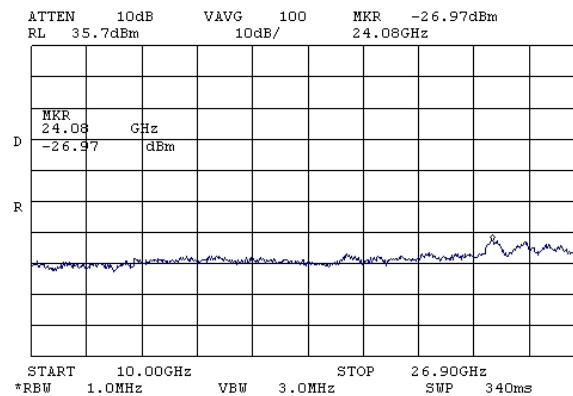


Plot # 38 2589.5 - 2590.5 MHz

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BMAX-4M-ODU-2X2
Spurious emissions at antenna terminal
BW = 5MHz

Middle frequency 2593MHz

**Plot # 39****Plot # 40****Plot # 41**



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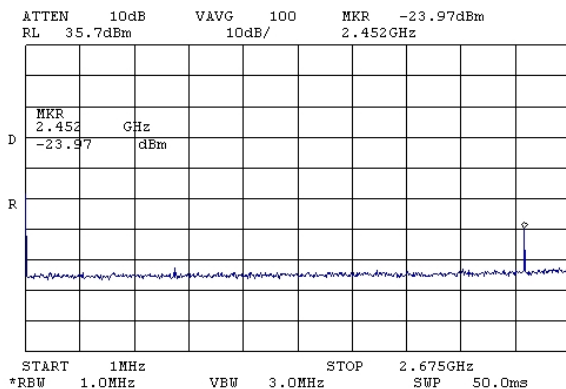
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Model: ODU-2485-2690-000N-38-2x2-N-0

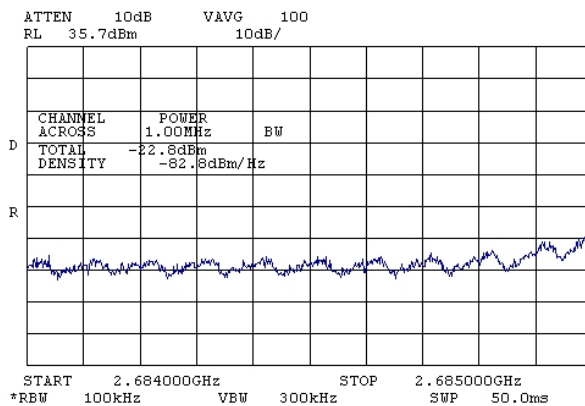
FCC ID: LKT-BMAX-2-OR-25

BMAX-4M-ODU-2X2
Spurious emissions at antenna terminal
BW = 5MHz

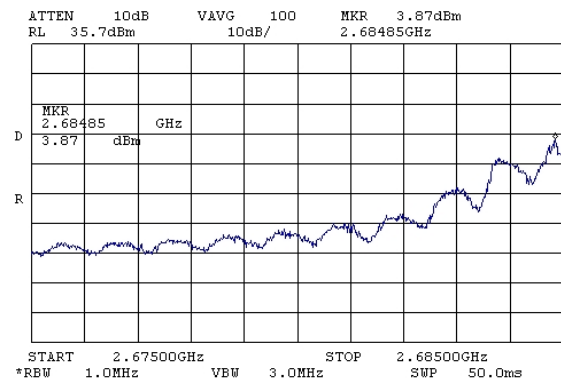
Top frequency 2687.5MHz



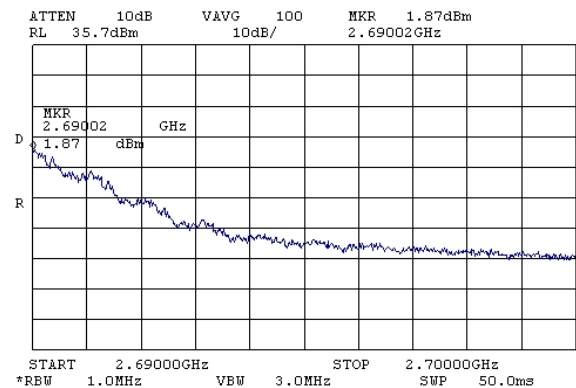
Plot # 42



Plot # 44



Plot # 43



Plot # 45

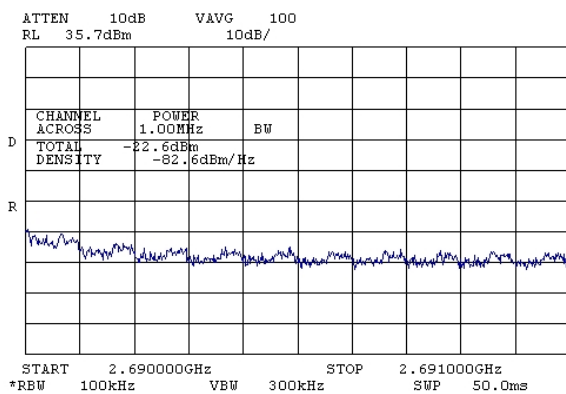


Test Report No.: 9012328334

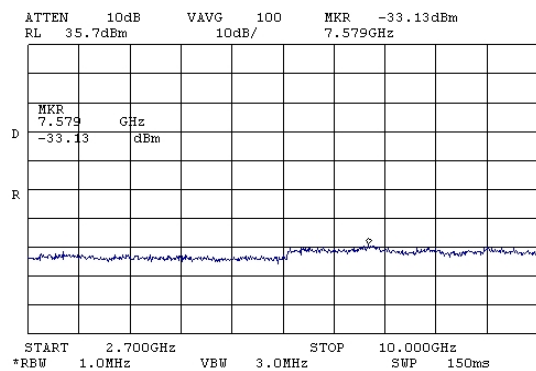
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Title: Test on BreezeMAX 4Motion Broadband Wireless Access System**Model:** ODU-2485-2690-000N-38-2x2-N-0**FCC ID:** LKT-BMAX-2-OR-25

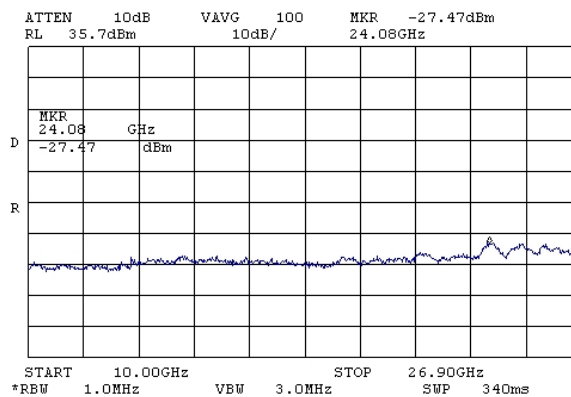
BMAX-4M-ODU-2X2
Spurious emissions at antenna terminal
BW = 5MHz

Top frequency 2687.5MHz

Plot # 46



Plot # 47



Plot # 48



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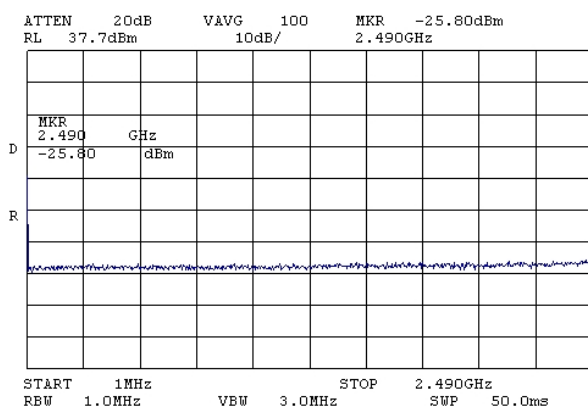
Title: Test on BreezeMAX 4Motion Broadband Wireless Access System

Model: ODU-2485-2690-000N-38-2x2-N-0

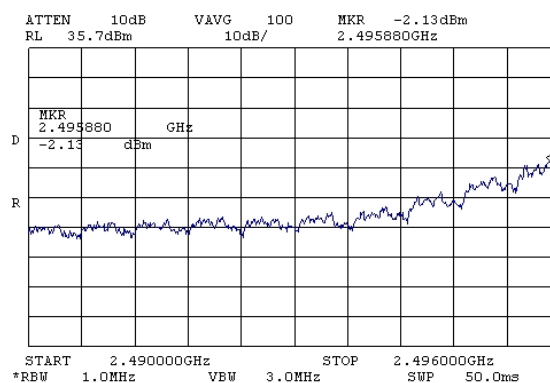
FCC ID: LKT-BMAX-2-OR-25

BMAX-4M-ODU-2X2
Spurious emissions at antenna terminal
BW = 10MHz

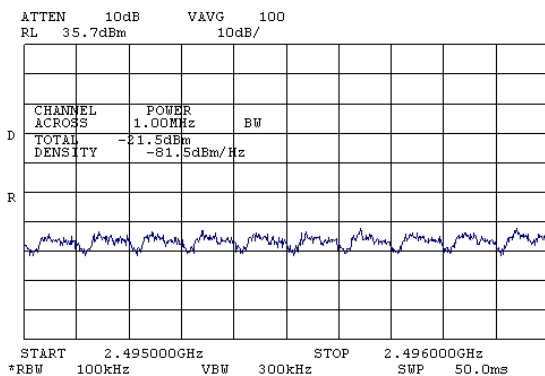
Bottom frequency 2501MHz



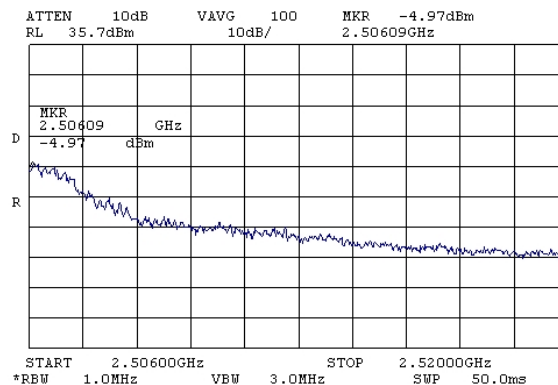
Plot # 49



Plot # 50



Plot # 51



Plot # 52



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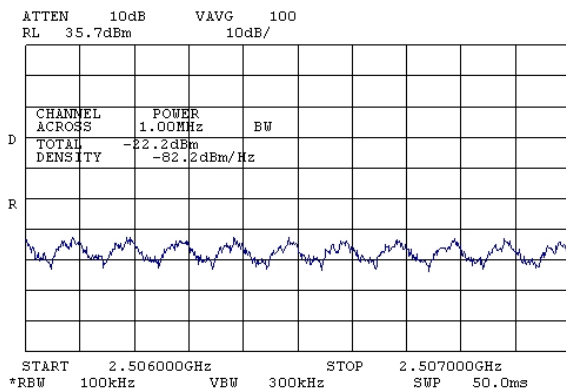
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Title: Test on BreezeMAX 4Motion Broadband Wireless Access System

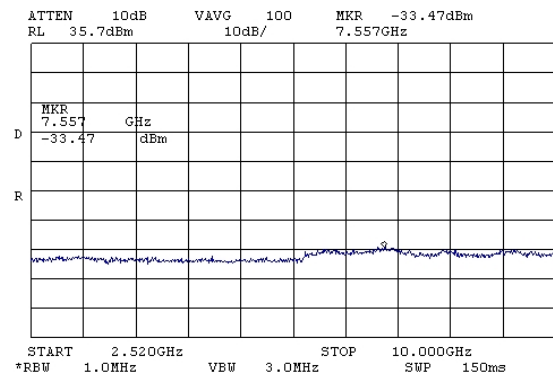
Model: ODU-2485-2690-000N-38-2x2-N-0

FCC ID: LKT-BMAX-2-OR-25

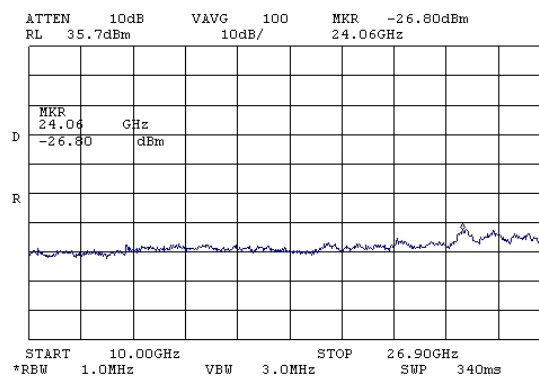
BMAX-4M-ODU-2X2
Spurious emissions at antenna terminal
BW = 10MHz

Bottom frequency 2501MHz

Plot # 53



Plot # 54



Plot # 55



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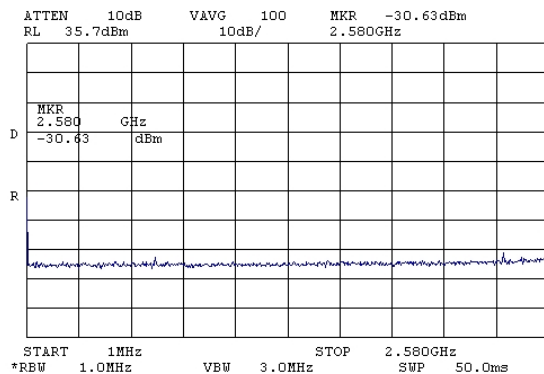
Title: Test on BreezeMAX 4Motion Broadband Wireless Access System

Model: ODU-2485-2690-000N-38-2x2-N-0

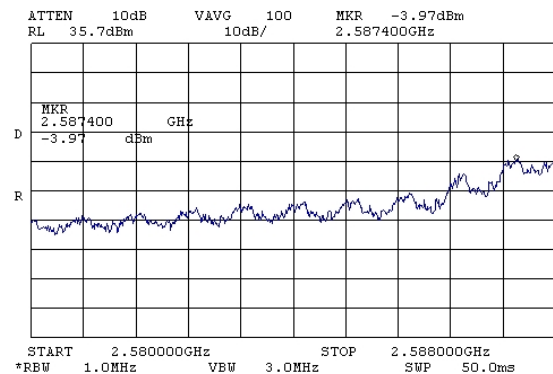
FCC ID: LKT-BMAX-2-OR-25

BMAX-4M-ODU-2X2
Spurious emissions at antenna terminal
BW = 10MHz

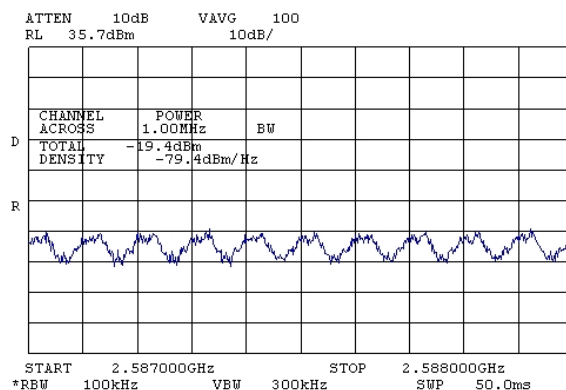
Middle frequency 2593MHz



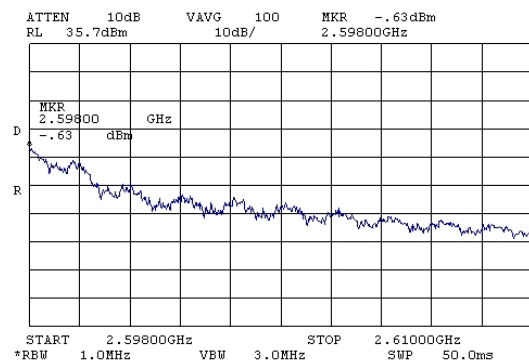
Plot # 56



Plot # 57



Plot # 58

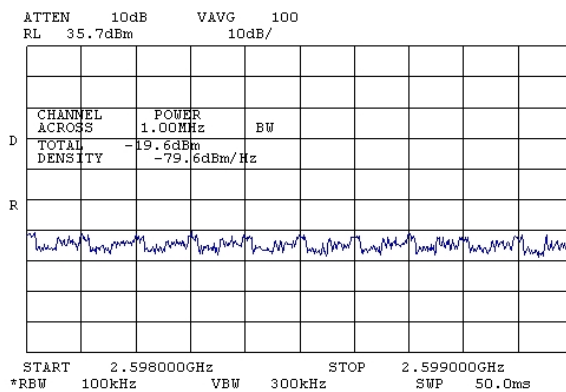
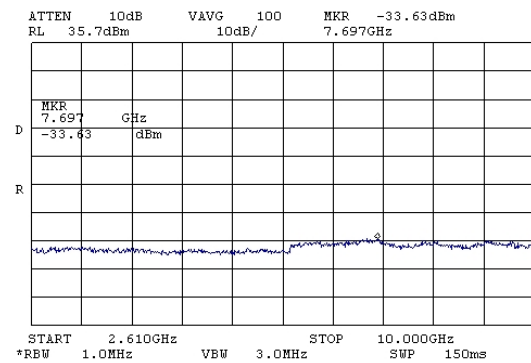
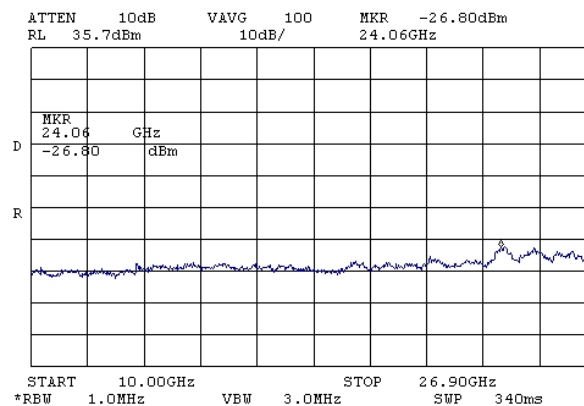


Plot # 59

**Test Report No.: 9012328334****Page 30 of 60 Pages****Title:** Test on BreezeMAX 4Motion Broadband Wireless Access System**Model:** ODU-2485-2690-000N-38-2x2-N-0**FCC ID:** LKT-BMAX-2-OR-25

BMAX-4M-ODU-2X2
Spurious emissions at antenna terminal
BW = 10MHz

Middle frequency 2593MHz

**Plot # 60****Plot # 61****Plot # 62**