

RF TEST REPORT



Report No.: RF_SL14102101-MIM-001_FCC_Rev1.0

Supersede Report No.: RF_SL14102101-MIM-001_FCC

Applicant	Mimosa Networks, Inc.
Product Name	Point to Point Device
Model No.	B5c Connectorized
Test Standard	47 CFR Part 90 Subpart Y
Test Procedure	47 CFR Part 90 Subpart Y
FCC ID	2ABZJ-100-00014PS
Date of test	10/27/2014 - 10/29/2014
Issue Date	12/16/2014
Test Result	<u>Pass</u> Fail
Equipment complied with the specification	[x]
Equipment did not comply with the specification	[]
	
Angel Escamilla	David Zhang
Test Engineer	Engineer Reviewer
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only	

Issued By:
SIEMIC Laboratories
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Laboratory Introduction

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Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom
Taiwan	BSMI, NCC, NIST	EMC, RF, Telecom, Safety
Hong Kong	OFTA, NIST	RF/Wireless, Telecom
Australia	NATA, NIST	EMC, RF, Telecom, Safety
Korea	KCC/RRR, NIST	EMI, EMS, RF, Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC, RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom, Safety
Israel	COM, NIST	EMC, RF, Telecom, Safety

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC, RF, Telecom
Canada	IC FCB, NIST	EMC, RF, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom
EU	NB	EMC & R&TTE Directive
Japan	MIC (RCB 208)	RF, Telecom
Hong Kong	OFTA (US002)	RF, Telecom

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1 Report Revision History

Report No.	Report Version	Description	Issue Date
RF_SL14102101-MIM-001_FCC	-	Original	11/18/2014
RF_SL14102101-MIM-001_FCC_Rev1.0	1.0	Update EUT information	12/16/2014

2 Executive Summary

The purpose of this test program was to demonstrate compliance of following product

Company: Mimosa Networks, Inc.
Product: Point to Point Device
Model: B5c Connectorized

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1st page.

3 Customer information

Applicant Name	Mimosa Networks, Inc.
Applicant Address	300 Orchard City Dr. Suite 100, Campbell, CA 95008, USA
Manufacturer Name	Mimosa Networks, Inc.
Manufacturer Address	300 Orchard City Dr. Suite 100, Campbell, CA 95008, USA

4 Test site information

Lab performing tests	SIEMIC Laboratories
Lab Address	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	881796
IC Test Site No.	4842D-2
VCCI Test Site No.	A0133

5 Modification

Index	Item	Description	Note
-	-	-	-

6 EUT Information

6.1 EUT Description

Product Name	Point to Point Device
Model No.	B5c Connectorized
Trade Name	Mimosa
Serial No.	Prototype
Input Power via PoE	48VDC
PoE Adapter Manu/Model	Fortune Power / GRT 480125A
Power Adapter SN	N/A
Hardware version	N/A
Software version	N/A
Date of EUT received	10/27/2014
Equipment Class/ Category	TNB
Highest Clock Frequency	N/A
Port/Connectors	RJ45, N-Type

6.2 Radio Description

Spec for Radio -

Radio Type	
Operating Frequency	4950MHz – 4980MHz
Modulation	OFDM, 16-QAM, 64-QAM, 256-QAM
Channel Spacing	20MHz
Number of Channels	7
Antenna Gain	0dBi: Dual-pol antenna 25dBi: Dual-pol antenna
Antenna Type	0dBi: External antenna 25dBi: External antenna
Antenna Connector Type	N-type

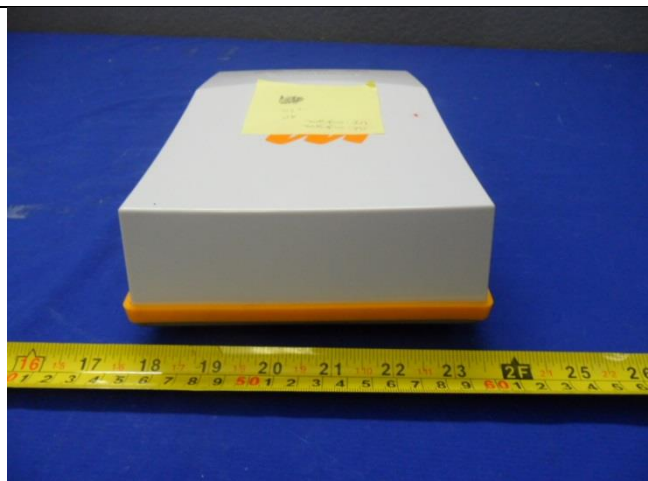
6.3 EUT test modes/configuration Description

Test Mode	Note
Test_mode_1	Continuous Transmit
Test_mode_2	-
Remark:	

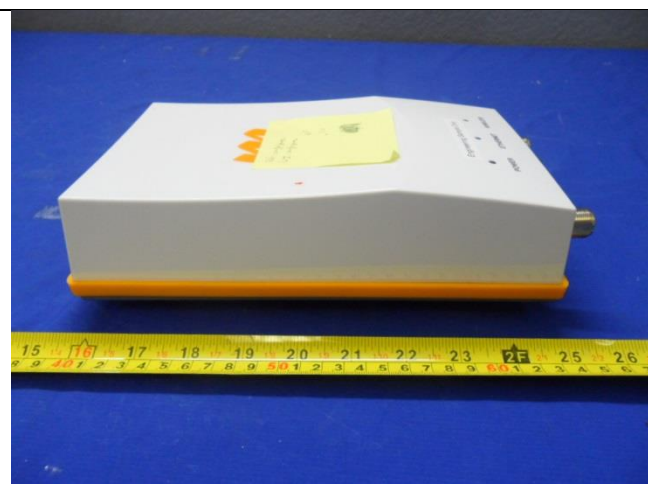
6.4 EUT Photos – External



EUT – Front View



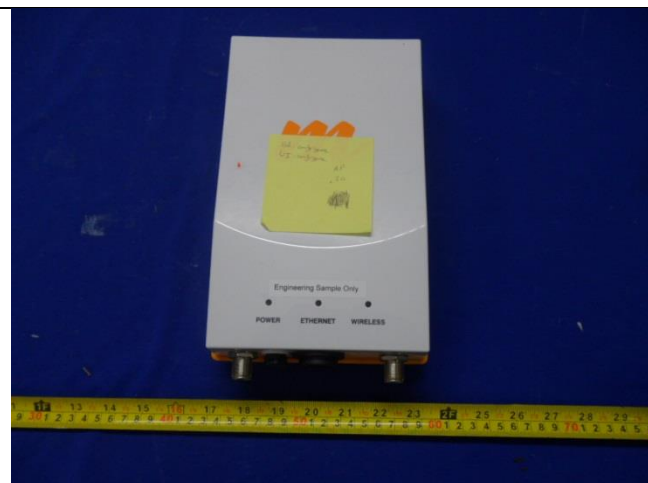
EUT – Rear View



EUT – Left View



EUT – Right View



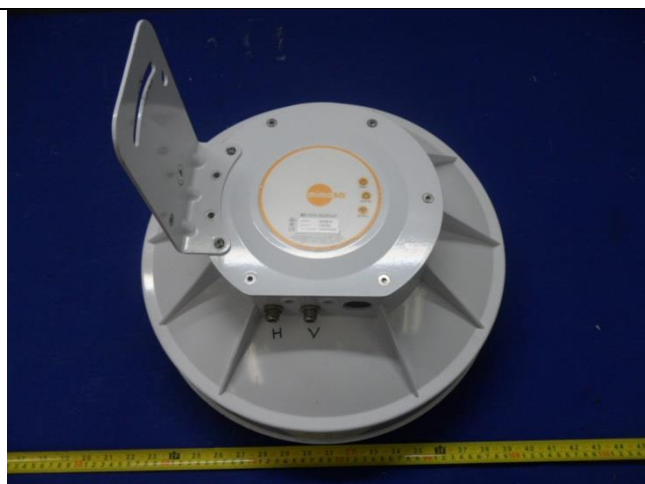
EUT – Top View



EUT – Bottom View



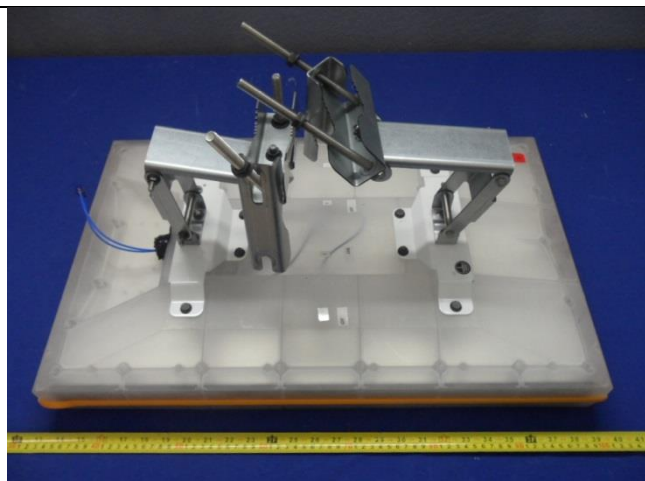
25dBi Antenna – Top View



25dBi Antenna – Bottom View

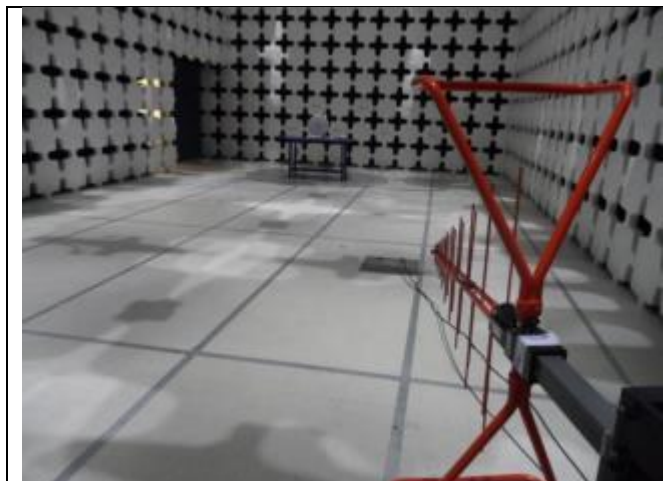


0dBi Antenna – Top View

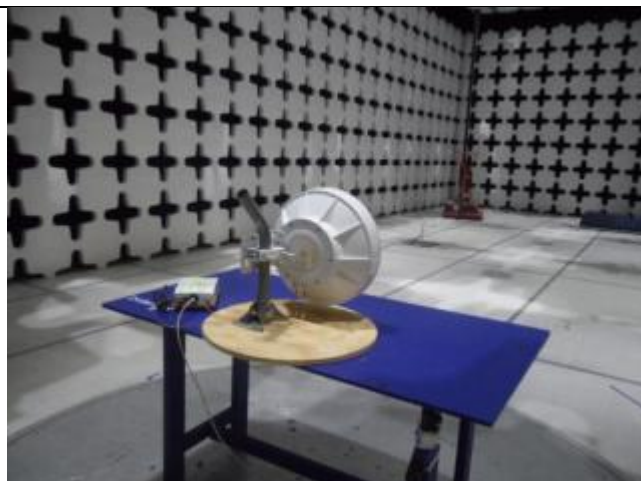


0dBi Antenna – Bottom View

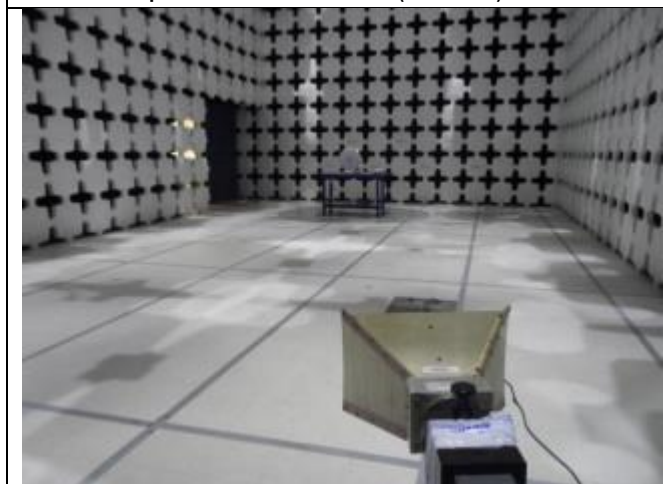
6.5 EUT Test Setup Photos



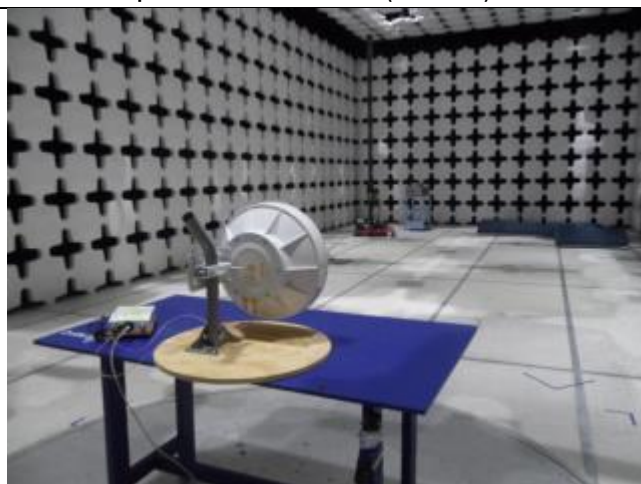
Radiated Spurious Emissions <1GHz (25dBi Ant) – Front View



Radiated Spurious Emissions <1GHz (25dBi Ant) – Rear View



Radiated Spurious Emissions 1-18GHz (25dBi Ant) – Front View



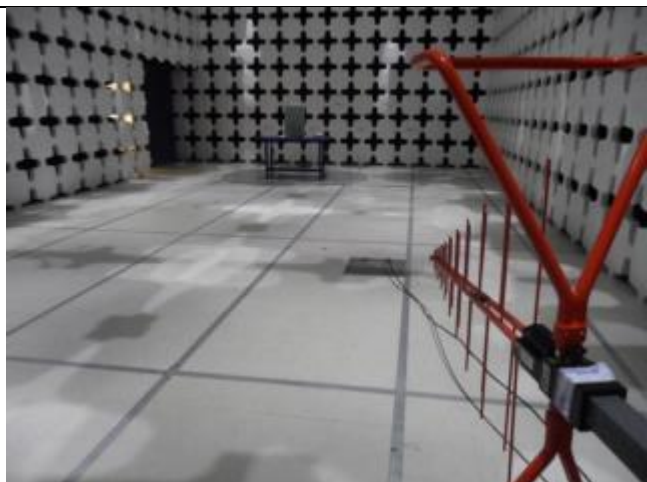
Radiated Spurious Emissions 1-18GHz (25dBi Ant) – Rear View



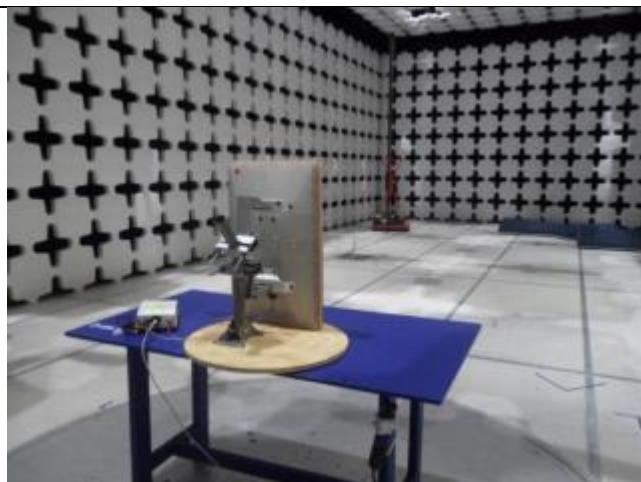
Radiated Spurious Emissions 18-40GHz (25dBi Ant) – Front View



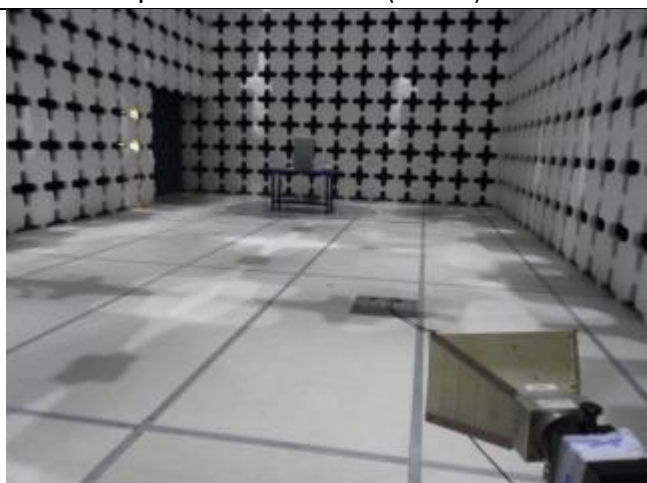
Radiated Spurious Emissions 18-40GHz (25dBi Ant) – Rear View



Radiated Spurious Emissions <1GHz (0dBi Ant) – Front View



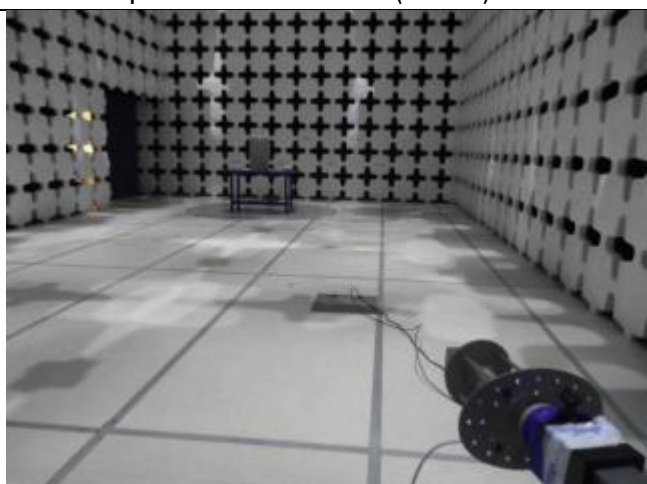
Radiated Spurious Emissions <1GHz (0dBi Ant) – Rear View



Radiated Spurious Emissions 1-18GHz (0dBi Ant) – Front View



Radiated Spurious Emissions 1-18GHz (0dBi Ant) – Rear View



Radiated Spurious Emissions 18-40GHz (0dBi Ant) – Front View



Radiated Spurious Emissions 18-40GHz (0dBi Ant) – Rear View

7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	Laptop	T530	-	Lenovo	-
2	PoE Adapter	GRT 280125A	-	Fortune Power	-

7.2 Test Software Description

Test Item	Software	Description
RF Tests	Software provided by manufacturer	Set the EUT to different channels and modulations

8 Test Summary

Test Item	Test standard		Test Method/Procedure	Pass / Fail
Occupied Bandwidth & Emissions Mask	FCC	§90 Subpart Y	FCC §2.1049 FCC §90.210	☒ Pass ☐ N/A
Peak Output Power	FCC	§90 Subpart Y	FCC §2.1046 FCC §90.1215(a)	☒ Pass ☐ N/A
Power Spectral Density	FCC	§90 Subpart Y	FCC §2.1046 FCC §90.1215(a)	☒ Pass ☐ N/A
Peak Excursion	FCC	§90 Subpart Y	FCC §90.1215	☒ Pass ☐ N/A
Conducted Spurious Emissions at the Antenna Terminals	FCC	§90 Subpart Y	FCC §2.1051 FCC §90.210	☒ Pass ☐ N/A
Radiated Spurious Emissions	FCC	§90 Subpart Y	FCC §2.1053 FCC §90.210	☒ Pass ☐ N/A
Frequency Stability	FCC	§90 Subpart Y	FCC §2.1055 FCC §90.213	☒ Pass ☐ N/A
Remark	- All measurement uncertainties do not take into consideration for all presented test results. - The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.			

9 Measurement Uncertainty

Emissions			
Test Item	Frequency Range	Description	Uncertainty
Radiated Spurious Emissions	30MHz – 1GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
Radiated Spurious Emissions	1GHz – 40GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+4.3dB/-4.1dB

10 Measurements, Examination and Derived Results

10.1 Occupied Bandwidth & Emissions Mask

Requirement(s):

Spec	Requirement	Applicable																							
FCC §2.1049 FCC §90.210	For low power transmitters (20 dBm or less) and high power transmitters (greater than 20 dBm) operating in the 4940-4990 MHz frequency band, the power spectral density of the emissions must be attenuated below the output power of the transmitter as follows: <table border="1"> <thead> <tr> <th rowspan="2">Frequency Offset f_d</th><th colspan="2">Minimum Attenuation</th></tr> <tr> <th>Low Power Transmitter</th><th>High Power Transmitter</th></tr> </thead> <tbody> <tr> <td>$0 < f_d \leq 45$</td><td>0</td><td>0</td></tr> <tr> <td>$45 < f_d \leq 50$</td><td>$219 \log(f_d/45)$</td><td>$568 \log(f_d/45)$</td></tr> <tr> <td>$50 < f_d \leq 55$</td><td>$10 + 242 \log(f_d/50)$</td><td>$26 + 145 \log(f_d/50)$</td></tr> <tr> <td>$55 < f_d \leq 100$</td><td>$20 + 31 \log(f_d/55)$</td><td>$32 + 31 \log(f_d/55)$</td></tr> <tr> <td>$100 < f_d \leq 150$</td><td>$28 + 68 \log(f_d/100)$</td><td>$40 + 57 \log(f_d/100)$</td></tr> <tr> <td>$f_d > 150$</td><td>40</td><td>50 dB or $55 + 10 \log(P)$ dB, whichever is the lesser attenuation.</td></tr> </tbody> </table> f_d is the percentage of the equipment's channel bandwidth.	Frequency Offset f_d	Minimum Attenuation		Low Power Transmitter	High Power Transmitter	$0 < f_d \leq 45$	0	0	$45 < f_d \leq 50$	$219 \log(f_d/45)$	$568 \log(f_d/45)$	$50 < f_d \leq 55$	$10 + 242 \log(f_d/50)$	$26 + 145 \log(f_d/50)$	$55 < f_d \leq 100$	$20 + 31 \log(f_d/55)$	$32 + 31 \log(f_d/55)$	$100 < f_d \leq 150$	$28 + 68 \log(f_d/100)$	$40 + 57 \log(f_d/100)$	$f_d > 150$	40	50 dB or $55 + 10 \log(P)$ dB, whichever is the lesser attenuation.	☒
Frequency Offset f_d	Minimum Attenuation																								
	Low Power Transmitter	High Power Transmitter																							
$0 < f_d \leq 45$	0	0																							
$45 < f_d \leq 50$	$219 \log(f_d/45)$	$568 \log(f_d/45)$																							
$50 < f_d \leq 55$	$10 + 242 \log(f_d/50)$	$26 + 145 \log(f_d/50)$																							
$55 < f_d \leq 100$	$20 + 31 \log(f_d/55)$	$32 + 31 \log(f_d/55)$																							
$100 < f_d \leq 150$	$28 + 68 \log(f_d/100)$	$40 + 57 \log(f_d/100)$																							
$f_d > 150$	40	50 dB or $55 + 10 \log(P)$ dB, whichever is the lesser attenuation.																							
Test Setup																									
Test Procedure	The zero dB reference is measured relative to the highest average power of the fundamental emission measured across the designated channel bandwidth using a resolution bandwidth of at least one percent of the occupied bandwidth of the fundamental emission and a video bandwidth of 30 kHz.																								
Remark	-																								
Environmental conditions	Temperature (°C) 21 °C Humidity (%) 38% Atmospheric (mbar) 1019 mbar																								
Test Date	10/27/2014																								
Result	☒ Pass ☐ Fail																								

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes ☐ N/A

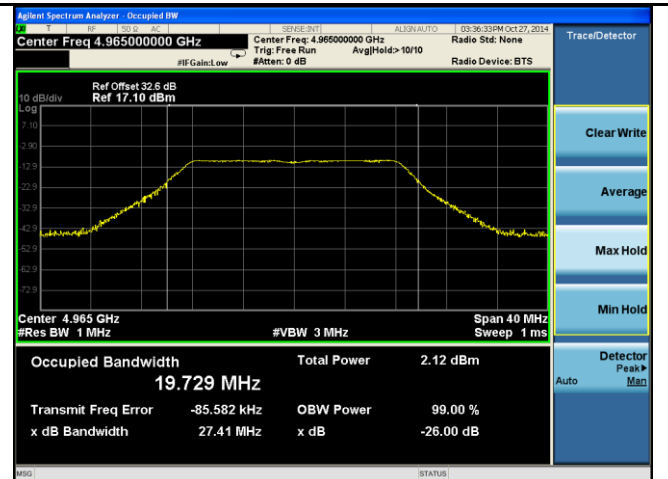
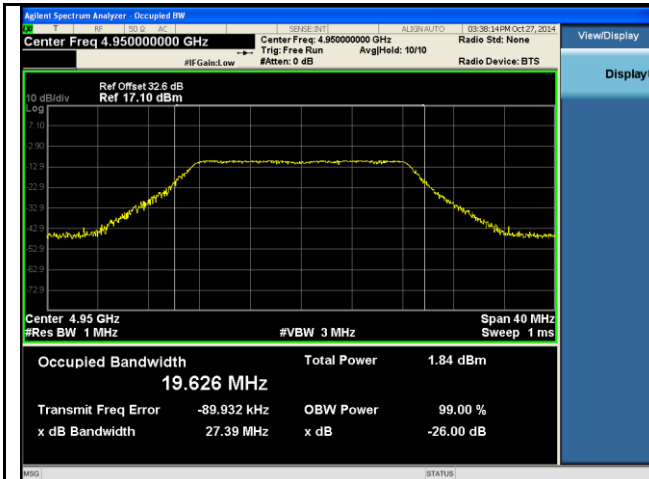
Low Power Setting - 25dBi Antenna Gain Measurement Results

Frequency (MHz)	Channel	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
4950	Low	27.390	19.626
4965	Middle	27.410	19.729
4980	High	27.260	19.570

High Power Setting - 0dBi Antenna Gain Measurement Results

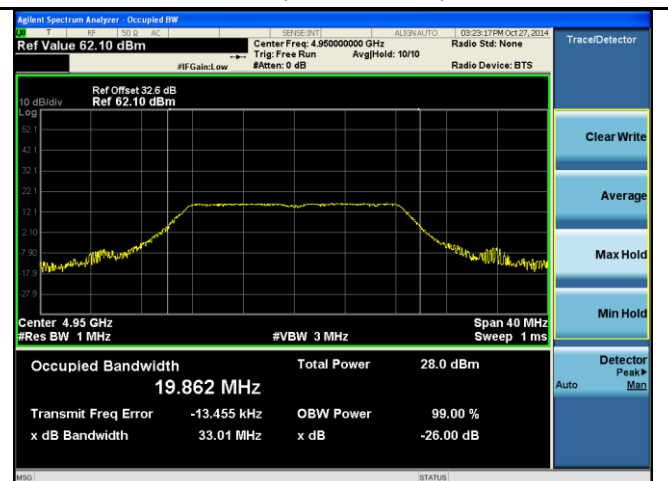
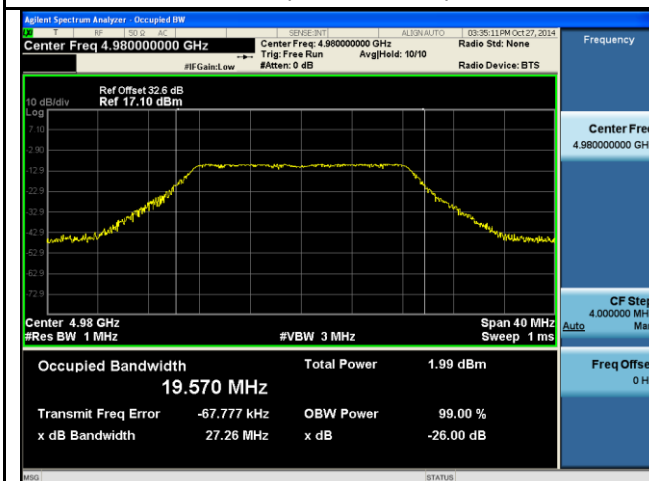
Frequency (MHz)	Channel	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
4950	Low	33.010	19.862
4965	Middle	32.490	19.745
4980	High	31.780	19.789

Occupied Bandwidth Test Plots



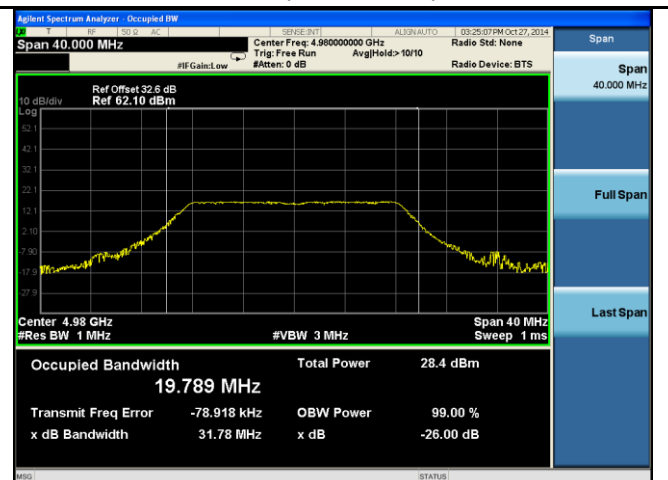
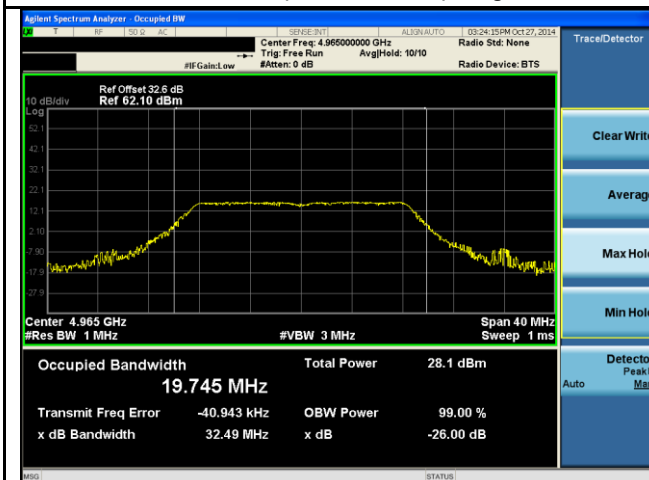
26dB & 99% Bandwidth (25dBi Antenna) - Low CH 4950MHz

26dB & 99% Bandwidth (25dBi Antenna) - Mid CH 4965MHz



26dB & 99% Bandwidth (25dBi Antenna) - High CH 4980MHz

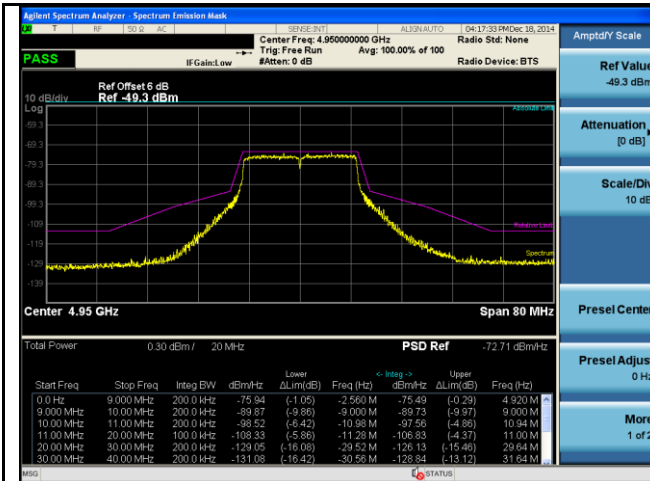
26dB & 99% Bandwidth (0dBi Antenna) - Low CH 4950MHz



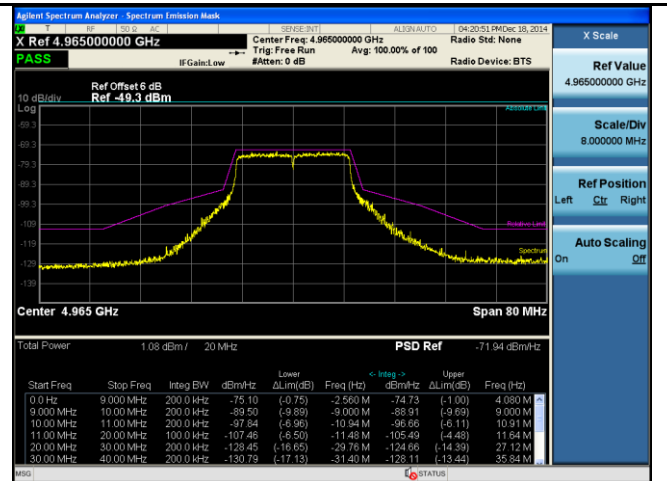
26dB & 99% Bandwidth (0dBi Antenna) - Mid CH 4965MHz

26dB & 99% Bandwidth (0dBi Antenna) - High CH 4980MHz

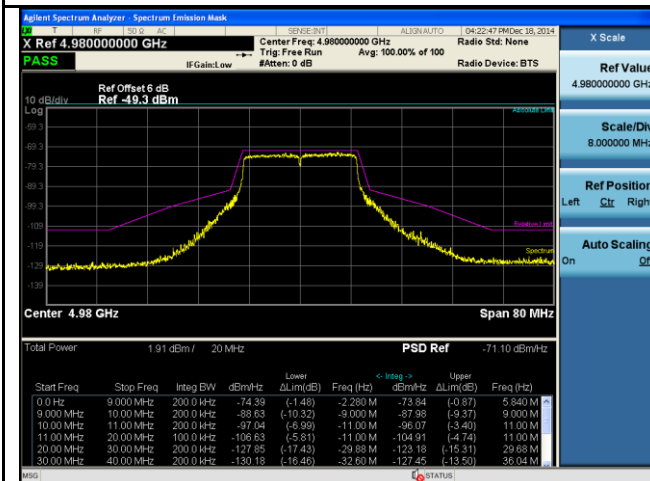
Emission Mask Test Plots



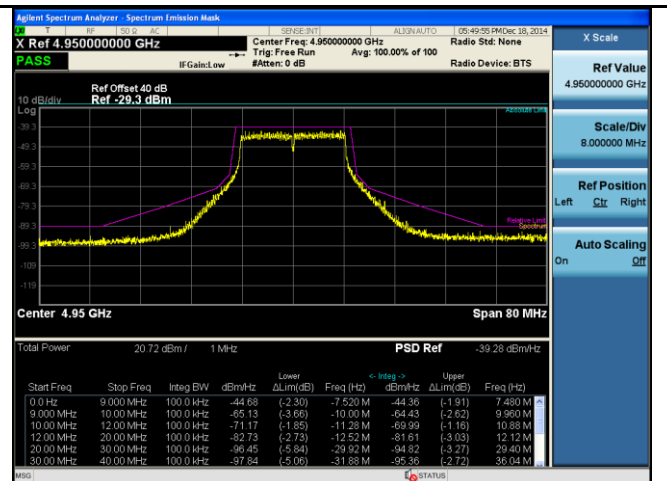
Emission Mask (25dBi Antenna) - Low CH 4950MHz



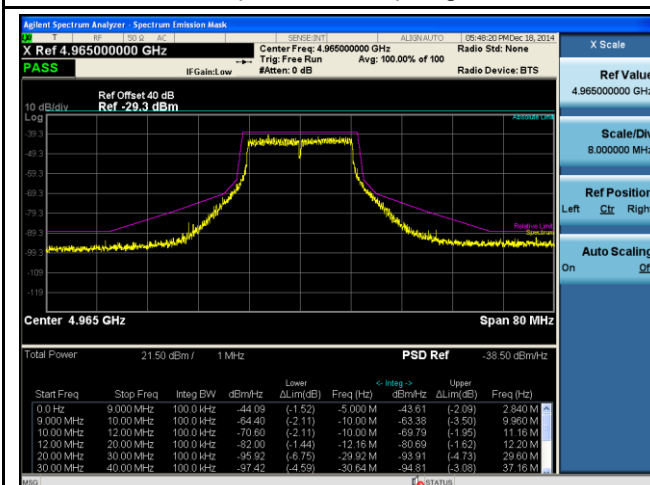
Emission Mask (25dBi Antenna) - Mid CH 4965MHz



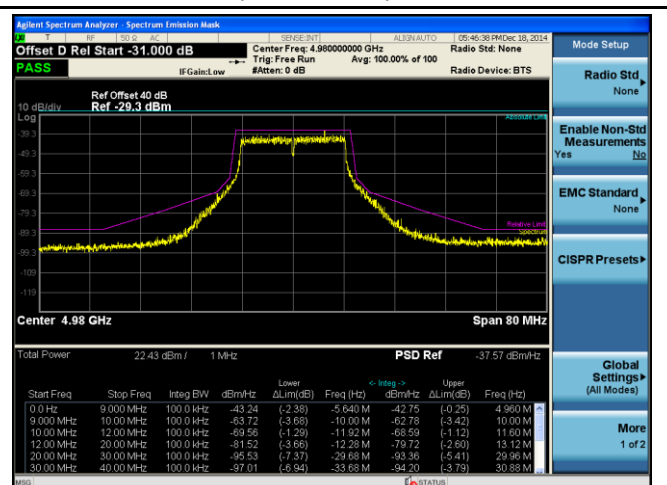
Emission Mask (25dBi Antenna) - High CH 4980MHz



Emission Mask (0dBi Antenna) - Low CH 4950MHz



Emission Mask (0dBi Antenna) - Mid CH 4965MHz



Emission Mask (0dBi Antenna) - High CH 4980MHz

10.2 Peak Output Power

Requirement(s):

Spec	Requirement	Applicable																		
FCC §2.1046 FCC §90.1215(a)	Per FCC §90.1215, the transmitting power of stations operating in the 4940-4990 MHz band must not exceed the maximum limits in this section. The maximum conducted output power should not exceed: <table><thead><tr><th>Channel bandwidth (MHz)</th><th>Low power maximum conducted output power (dBm)</th><th>High power maximum conducted output power (dBm)</th></tr></thead><tbody><tr><td>1</td><td>7</td><td>20</td></tr><tr><td>5</td><td>14</td><td>27</td></tr><tr><td>10</td><td>17</td><td>30</td></tr><tr><td>15</td><td>18.8</td><td>31.8</td></tr><tr><td>20</td><td>20</td><td>33</td></tr></tbody></table> If transmitting antennas of directional gain greater than 9 dBi are used, both the maximum conducted output power and the peak power spectral density should be reduced by the amount in decibels that the directional gain of the antenna exceeds 9 dBi.	Channel bandwidth (MHz)	Low power maximum conducted output power (dBm)	High power maximum conducted output power (dBm)	1	7	20	5	14	27	10	17	30	15	18.8	31.8	20	20	33	☒
Channel bandwidth (MHz)	Low power maximum conducted output power (dBm)	High power maximum conducted output power (dBm)																		
1	7	20																		
5	14	27																		
10	17	30																		
15	18.8	31.8																		
20	20	33																		
Test Setup	Laptop EUT																			
Test Procedure	The maximum conducted output power is measured as a conducted emission over any interval of continuous transmission using instrumentation calibrated in terms of an RMS-equivalent voltage. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true maximum conducted output power measurement.																			
Environmental conditions	Temperature (°C) Humidity (%) Atmospheric (mbar)	23 °C 40% 1019 mbar																		
Test Date	10/27/2014																			
Remark	All maximum conducted output power measurements were done using a peak detector for peak output power measurement.																			
Result	☒ Pass ☐ Fail																			

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Low Power Setting - Maximum Peak Output Power measurement results (25dBi Antenna Gain)

Channel	Frequency (MHz)	Conducted Power (dBm)			Output Power Limit (dBm)	Result
		Chain 1	Chain 4	Combined Power or Highest Power		
Low	4950	-2.10	-2.11	0.91	4	Pass
Mid	4965	-2.10	-2.20	0.86	4	Pass
High	4980	-1.78	-2.13	1.06	4	Pass
Note	For low power setting with 25dBi antenna gain, the limit for PSD is reduced by the dB that is exceeding the 9 dBi antenna gain. Reduced Power Limit = Original Power Limit – (Antenna Gain – 9 dBi) = 4 dBm					

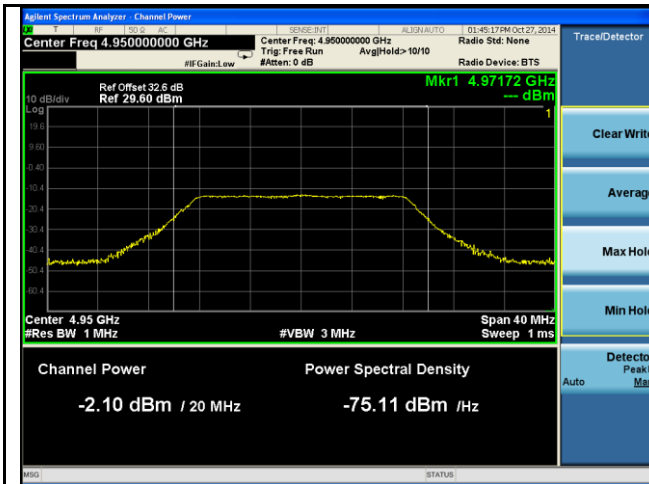
Channel	Frequency (MHz)	Conducted Power (dBm)			Output Power Limit (dBm)	Result
		Chain 2	Chain 3	Combined Power or Highest Power		
Low	4950	-2.09	-3.50	0.27	4	Pass
Mid	4965	-3.38	-2.97	-0.16	4	Pass
High	4980	-2.41	-2.43	0.59	4	Pass
Note	For low power setting with 25dBi antenna gain, the limit for PSD is reduced by the dB that is exceeding the 9 dBi antenna gain. Reduced Power Limit = Original Power Limit – (Antenna Gain – 9 dBi) = 4 dBm					

High Power Setting - Maximum Peak Output Power measurement results (0dBi Antenna Gain)

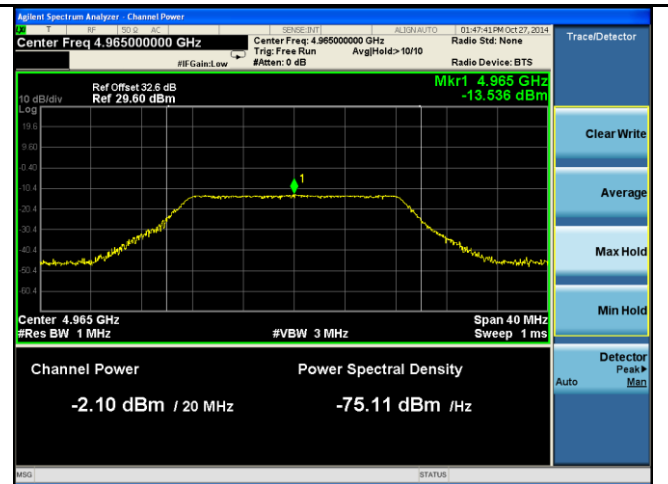
Channel	Frequency (MHz)	Conducted Power (dBm)			Output Power Limit (dBm)	Result
		Chain 1	Chain 4	Combined Power or Highest Power		
Low	4950	25.64	25.61	28.64	33	Pass
Mid	4965	25.90	25.87	28.90	33	Pass
High	4980	26.14	25.94	29.05	33	Pass

Channel	Frequency (MHz)	Conducted Power (dBm)			Output Power Limit (dBm)	Result
		Chain 2	Chain 3	Combined Power or Highest Power		
Low	4950	27.81	25.31	29.75	33	Pass
Mid	4965	28.41	26.23	30.47	33	Pass
High	4980	28.52	24.44	29.95	33	Pass

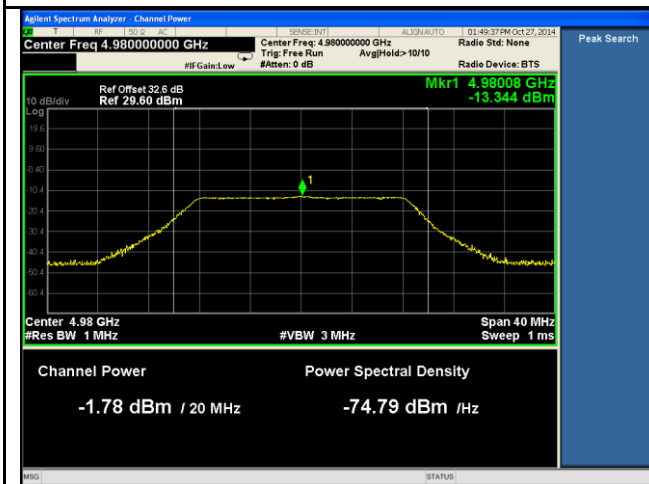
Peak Output Power Test Plots



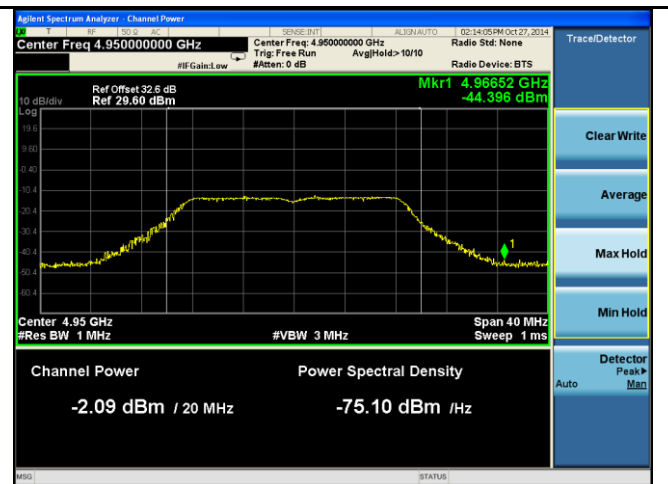
Chain 1 Peak Output Power (25dBi Antenna) - 4950MHz



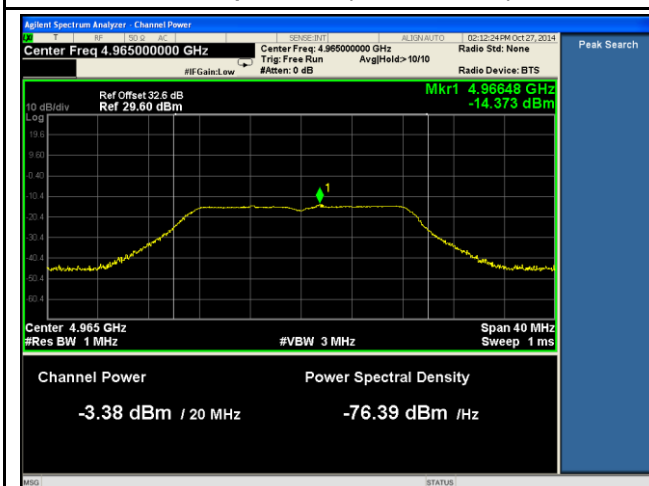
Chain 1 Peak Output Power (25dBi Antenna) - 4965MHz



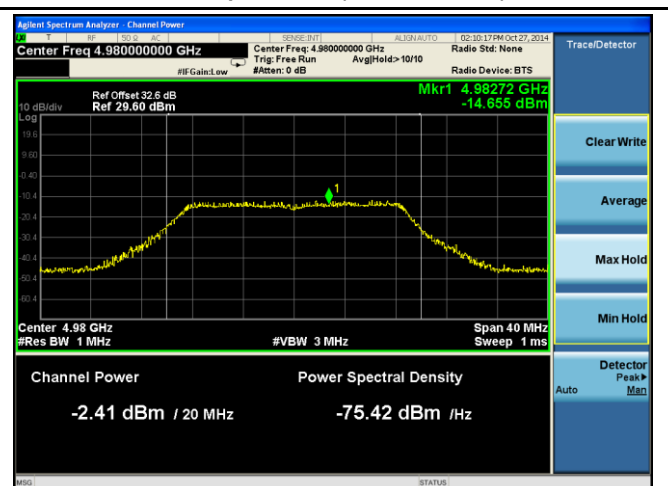
Chain 1 Peak Output Power (25dBi Antenna) - 4980MHz



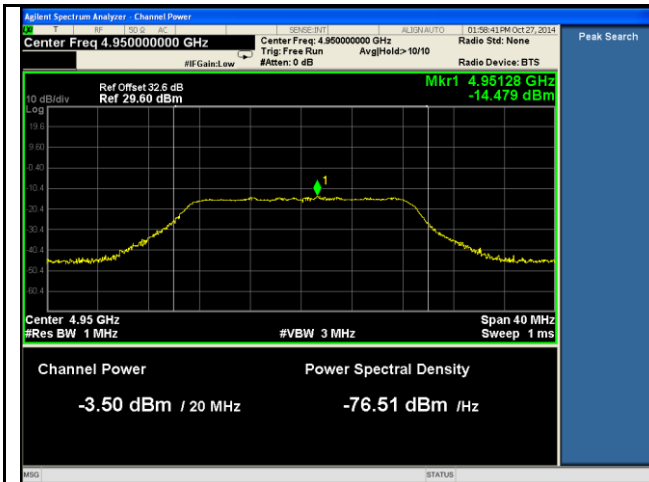
Chain 2 Peak Output Power (25dBi Antenna) - 4950MHz



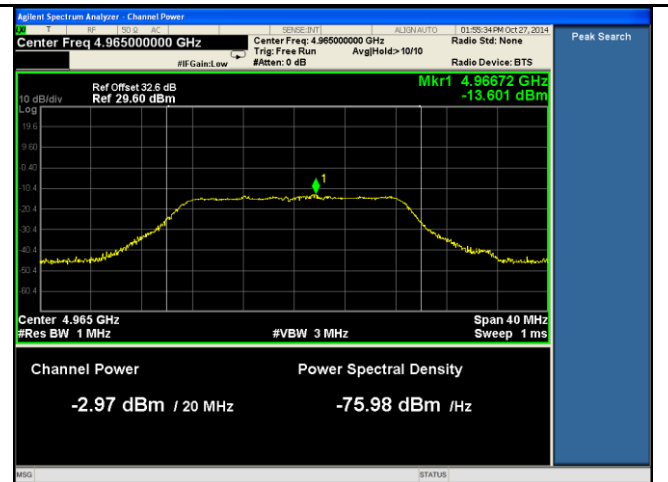
Chain 2 Peak Output Power (25dBi Antenna) - 4965MHz



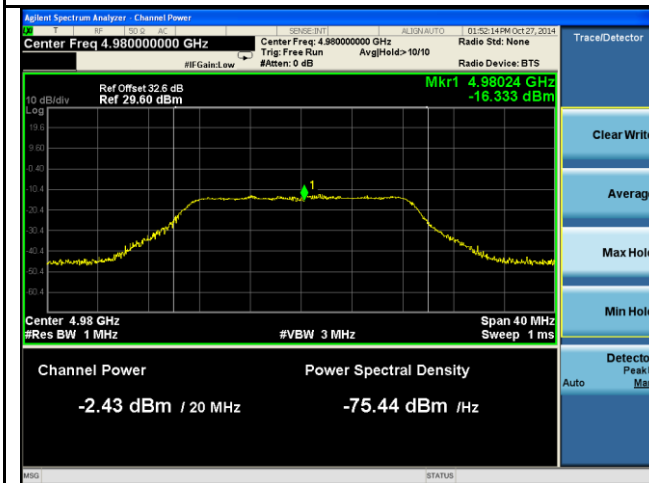
Chain 2 Peak Output Power (25dBi Antenna) - 4980MHz



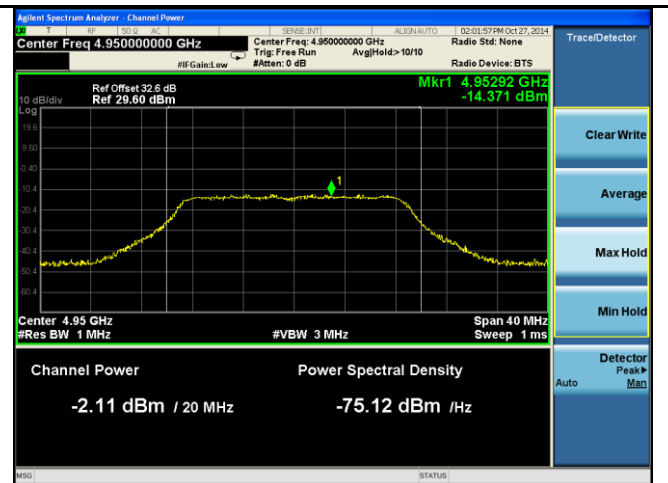
Chain 3 Peak Output Power (25dBi Antenna) - 4950MHz



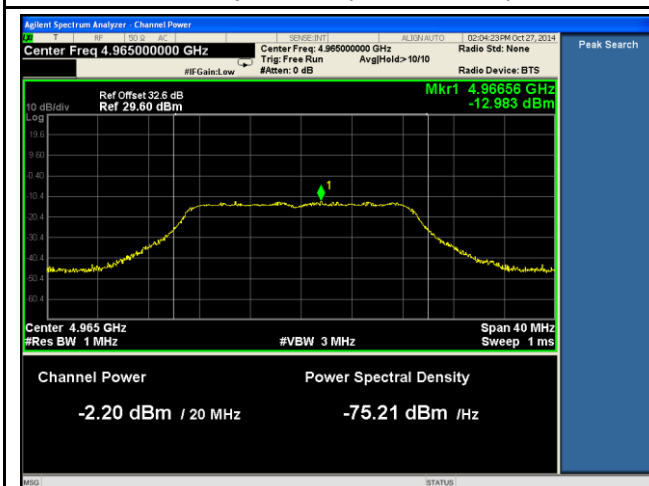
Chain 3 Peak Output Power (25dBi Antenna) - 4965MHz



Chain 3 Peak Output Power (25dBi Antenna) - 4980MHz



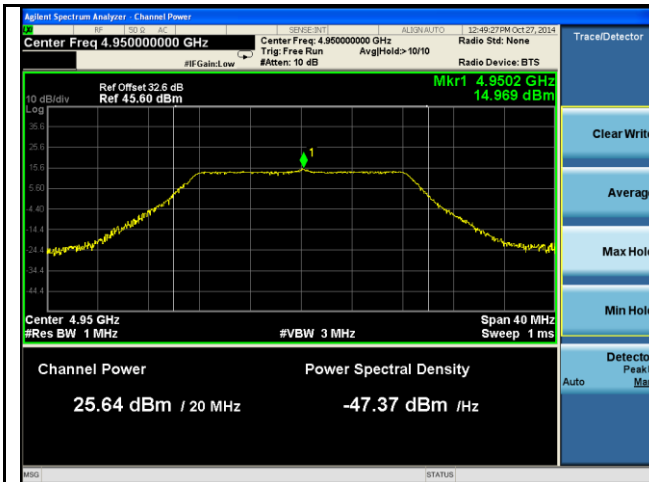
Chain 4 Peak Output Power (25dBi Antenna) - 4950MHz



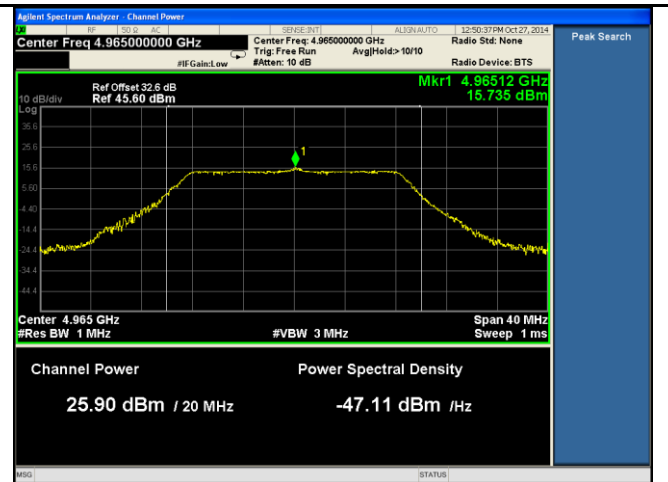
Chain 4 Peak Output Power (25dBi Antenna) - 4965MHz



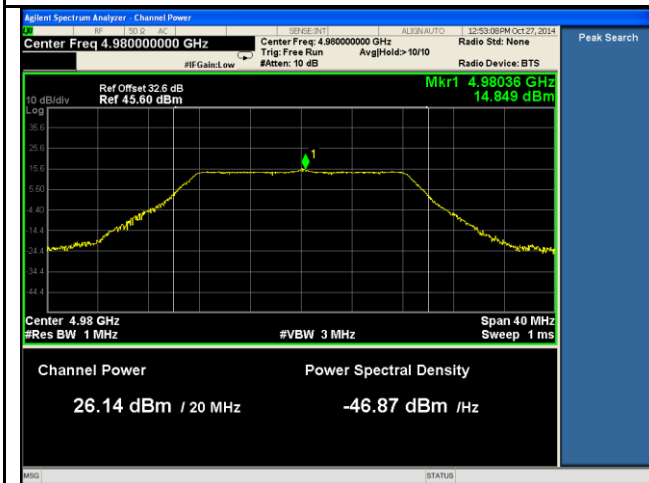
Chain 4 Peak Output Power (25dBi Antenna) - 4980MHz



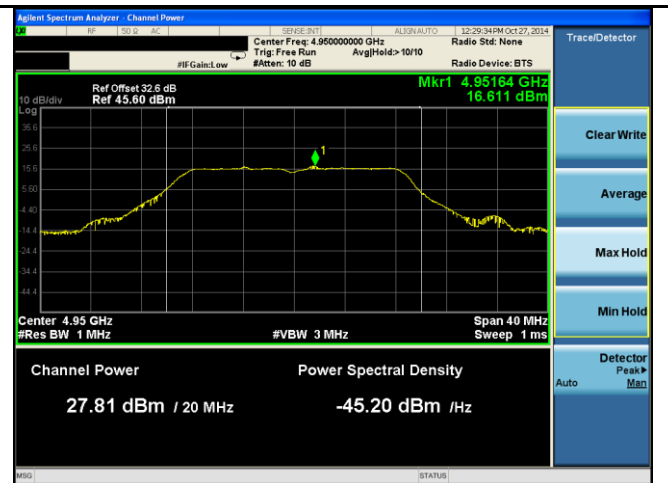
Chain 1 Peak Output Power (0dBi Antenna) - 4950MHz



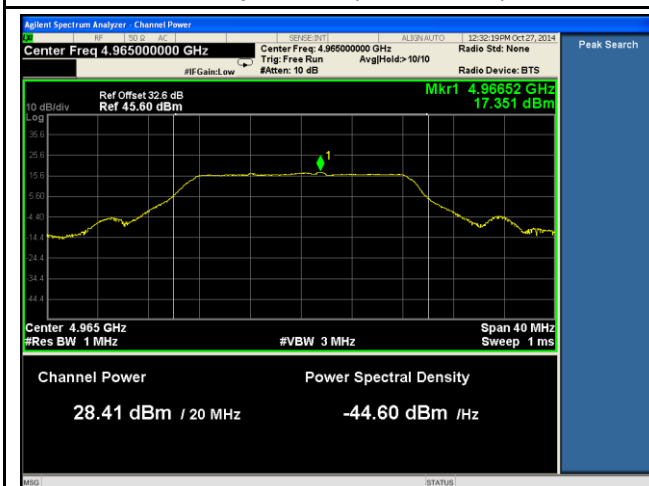
Chain 1 Peak Output Power (0dBi Antenna) - 4965MHz



Chain 1 Peak Output Power (0dBi Antenna) - 4980MHz



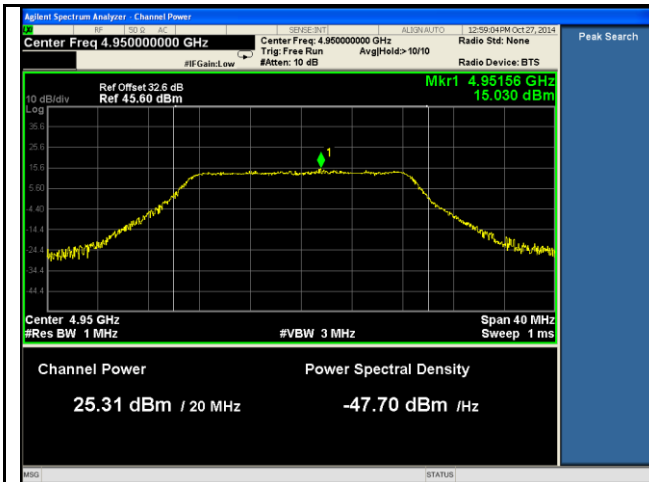
Chain 2 Peak Output Power (0dBi Antenna) - 4950MHz



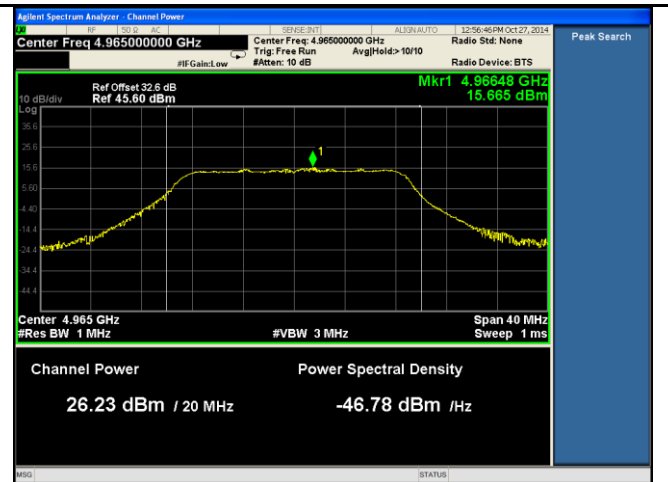
Chain 2 Peak Output Power (0dBi Antenna) - 4965MHz



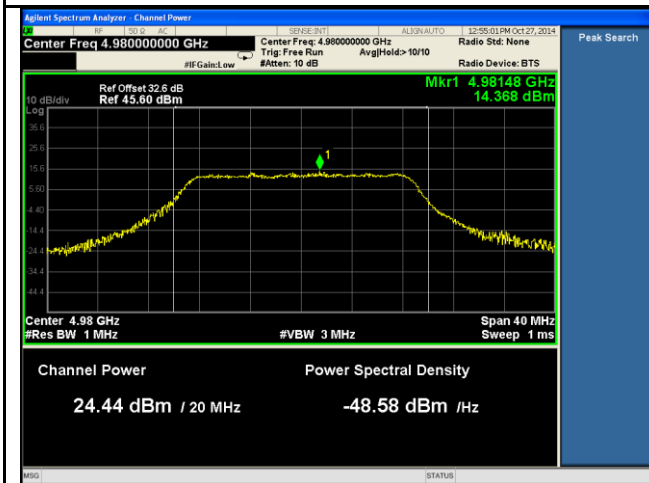
Chain 2 Peak Output Power (0dBi Antenna) - 4980MHz



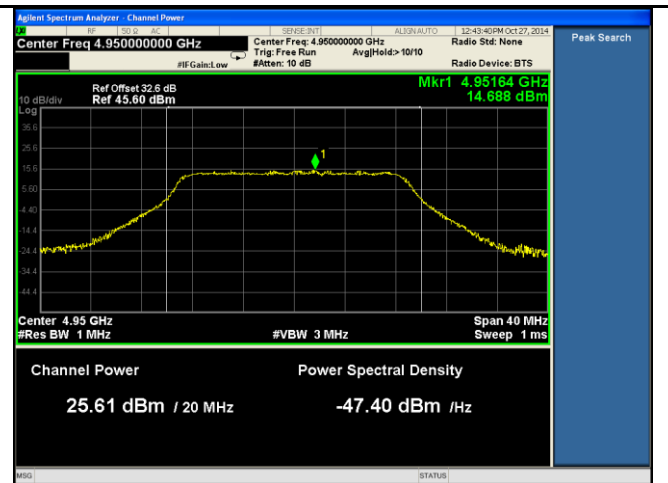
Chain 3 Peak Output Power (0dBi Antenna) - 4950MHz



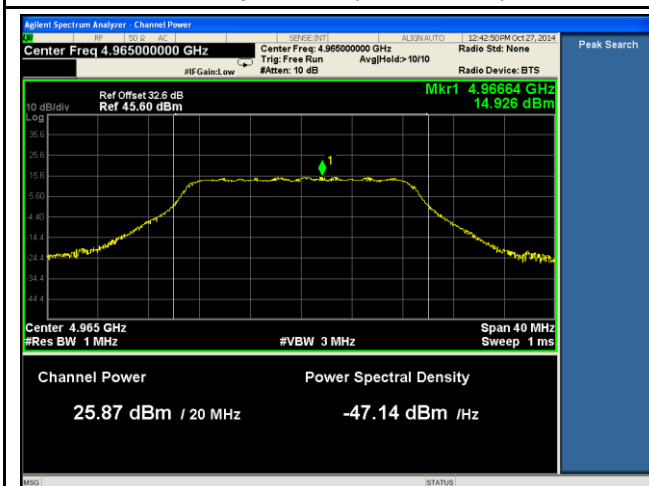
Chain 3 Peak Output Power (0dBi Antenna) - 4965MHz



Chain 3 Peak Output Power (0dBi Antenna) - 4980MHz



Chain 4 Peak Output Power (0dBi Antenna) - 4950MHz



Chain 4 Peak Output Power (0dBi Antenna) - 4965MHz



Chain 4 Peak Output Power (0dBi Antenna) - 4980MHz

10.3 Power Spectral Density

Requirement(s):

Spec	Requirement	Applicable						
FCC §2.1046 FCC §90.1215	High power devices are also limited to a peak power spectral density of 21 dBm per one MHz. If transmitting antennas of directional gain greater than 9 dBi are used, the peak power spectral density should be reduced by the amount in decibels that the directional gain of the antenna exceeds 9 dBi. Low power devices are also limited to a peak power spectral density of 8 dBm per one MHz. Low power devices using channel bandwidths other than those listed above are permitted; however, they are limited to a peak power spectral density of 8 dBm/MHz. If transmitting antennas of directional gain greater than 9 dBi are used, the peak power spectral density should be reduced by the amount in decibels that the directional gain of the antenna exceeds 9 dBi.	☒						
Test Setup	Spectrum Analyzer EUT							
Test Procedure	The peak power spectral density is measured as conducted emission by direct connection of a calibrated test instrument to the equipment under test. Measurements are made over a bandwidth of one MHz or the 26 dB emission bandwidth of the device, whichever is less. A resolution bandwidth less than the measurement bandwidth can be used, provided that the measured power is integrated to show total power over the measurement bandwidth.							
Environmental conditions	<table><tr><td>Temperature (°C)</td><td>23 °C</td></tr><tr><td>Humidity (%)</td><td>40%</td></tr><tr><td>Atmospheric (mbar)</td><td>1019 mbar</td></tr></table>	Temperature (°C)	23 °C	Humidity (%)	40%	Atmospheric (mbar)	1019 mbar	
Temperature (°C)	23 °C							
Humidity (%)	40%							
Atmospheric (mbar)	1019 mbar							
Test Date	10/27/2014							
Remark	-							
Result	☒ Pass ☐ Fail							

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Low Power Setting - Power Spectral Density measurement results (25dBi Antenna Gain)

Channel	Frequency (MHz)	Conducted Power (dBm)			PSD Limit (dBm/MHz)	Result
		Chain 1	Chain 4	Combined Power or Highest Power		
Low	4950	-16.017	-15.152	-12.55	-8.00	Pass
Mid	4965	-15.707	-15.051	-12.36	-8.00	Pass
High	4980	-15.716	-15.037	-12.35	-8.00	Pass
Note	For low power setting with 25dBi antenna gain, the limit for PSD is reduced by the dB that is exceeding the 9 dBi antenna gain. Reduced PSD Limit = Original PSD Limit – (Antenna Gain – 9 dBi) = -8 dBm/MHz					

Channel	Frequency (MHz)	Conducted Power (dBm)			PSD Limit (dBm/MHz)	Result
		Chain 2	Chain 3	Combined Power or Highest Power		
Low	4950	-15.14	-17.135	-13.01	-8.00	Pass
Mid	4965	-16.593	-16.147	-13.35	-8.00	Pass
High	4980	-16.191	-15.388	-12.76	-8.00	Pass
Note	For low power setting with 25dBi antenna gain, the limit for PSD is reduced by the dB that is exceeding the 9 dBi antenna gain. Reduced PSD Limit = Original PSD Limit – (Antenna Gain – 9 dBi) = -8 dBm/MHz					

High Power Setting - Power Spectral Density measurement results (0dBi Antenna Gain)

Channel	Frequency (MHz)	Conducted Power (dBm)			PSD Limit (dBm/MHz)	Result
		Chain 1	Chain 4	Combined Power or Highest Power		
Low	4950	13.360	12.658	16.03	21.00	Pass
Mid	4965	13.862	12.865	16.40	21.00	Pass
High	4980	13.438	13.025	16.25	21.00	Pass

Channel	Frequency (MHz)	Conducted Power (dBm)			PSD Limit (dBm/MHz)	Result
		Chain 2	Chain 3	Combined Power or Highest Power		
Low	4950	14.156	12.204	16.30	21.00	Pass
Mid	4965	15.085	13.492	17.37	21.00	Pass
High	4980	15.297	14.368	17.87	21.00	Pass