





TEST REPORT

Report No.: SRMC2009-H024-E0017

Product Name: Broadband Wireless Base Station

Product Model: SkyWay-Mobile BTS

Applicant: Solectek Corporation

Manufacture: Solectek Corporation

Specification: FCC Part 27, Part 2

(October 1, 2008 edition)

FCC ID: KA370MOB1

The State Radio Monitoring Center

State Radio Spectrum Monitoring and Testing Center

No.80 Beilishi Road Xicheng District Beijing, China

Tel: 86-10-68009202 Fax: 86-10-68009205

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1. General information

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio Monitoring Center.

The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company: The State Radio Monitoring Center

State Radio Spectrum Monitoring and Testing Center

Address: No.80 Beilishi Road, Xicheng District, Beijing China

City: Beijing Country or Region: China

Contacted person: Wang Junfeng

Tel +86 10 68009181 +86 10 68009202 Fax: +86 10 68009195 +86 10 68009205

Email: Wangjf@srrc.org.cn

1.3 Applicant's details

Company: Solectek Corporation

Address: 6370 Nancy Ridge Drive, Suite 109, San Diego, CA 92121,

USA

City: San Diego

Country or Region: USA Grantee Code: KA3

Contacted person: David Gell

Tel: +1-858-450-1220-3020

Fax: +1-858-457-2681 Email: dgell@solectek.com

1.4 Manufacturer's details

Company: Solectek Corporation

Address: 6370 Nancy Ridge Drive, Suite 109, San Diego, CA 92121,

USA

City: San Diego

Country or Region: USA
Grantee Code: KA3
Contacted person: David Gell

Tel: +1-858-450-1220-3020

Fax: +1-858-457-2681 Email: dgell@solectek.com

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1.5 Application details

Date of reception of test sample: 20th July. 2008 Date of test: 20th July. 2008 to 5th Aug. 2008

1.6 Reference specification

FCC Part 27, Part 2 (October 1, 2008 edition)

1.7 Information of EUT

1.7.1 General information

Name of EUT	Broadband Wireless Base Station
FCC ID	KA370MOB1
Frequency Range	698MHz ~ 746MHz
Rated Output Power	42.90dBm (ERP)
Access Method	CS-OFDMA
Modulation Type	QPSK, 8PSK, 16QAM, 64QAM
Emission Designator	5M00W9W
Duplex Mode	TDD
Channel Bandwidth	5MHz
Antenna Type	External
Antenna Gain	15dBi
Power Supply	External power supply
Rated Power Supply Voltage	24V
Extreme Temperature	Lowest: 0°C Highest: +50°C
Extreme Voltage	Minimum: 20.4V Maximum: 27.6V
HW Version	1.4.5.5
SW Version	N/A

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1.7.2 EUT details

Name	Model	Serial Number
Broadband Wireless Base Station	SkyWay-Mobile BTS	C510407110222

1.7.3 Auxiliary equipment details

Equipment	Power supply
Manufacturer	Shi Jiazhuang Guoyao Electronic
Model Number	GYZ720-220S24C2
Serial Number	GY200612T010007006

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2. Test information

2.1 Summary of the test results

No.	Test case	FCC reference	Verdict
1	RF Power Output	2.1046/27.50(c)(3)	Pass
2	Occupied Bandwidth,	2.1049/27.53(f)	Pass
3	Conducted Spurious Emissions	2.1051/27.53(f)	Pass
4	Band Edges Compliance	2.1051/27.53(f)	Pass
5	Frequency Stability	2.1055/27.54	Pass
6	Radiated Spurious Emissions	2.1053/27.53(f)	Pass

This Test Report Is Issued by:	Checked by:
RESE	2535
Tested by:	Issued date:
走村	2009.8.17

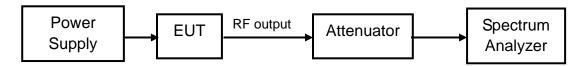
2.2 Test result

2.2.1 RF Power Output - FCC Part 2.1046/Part 27.50(C)(3)

Ambient condition:

Temperature	Relative humidity	Pressure
23°C	46%	101.5kPa

Test Setup:



Test procedure:

The EUT was connected to a spectrum analyzer via the main RF connector, and through an appropriate attenuator. Diversity RF connectors were connected to 50 Ohm match load. The EUT was controlled to transmit its maximum power. Then the maximum channel power of the EUT can be measured by the spectrum analyzer. The loss between the main RF connector of the EUT and the input port of the spectrum analyzer will be taken into consideration.

The measurement will be conducted at three channels, Bottom channel (701MHz), Middle channel (719MHz) and Top channel (743MHz)

Test result:
All test modes were considered for this test. All typical frequency points were considered for this test.

	Transmitter Output Power Level(ERP) (dBm)		
Test Mode	CH Bottom (701MHz)	CH Middle (719MHz)	CH Top (743MHz)
QPSK	42.76	42.88	42.34
8PSK	42.74	42.90	42.37
16QAM	42.74	42.89	42.44
64QAM	42.75	42.90	42.48
Limit	5000W(67dBm)(ERP)		
Conclusion	Complies		

Note: P(ERP)=P(Channel)+Antenna Gain(dBi)-2.15

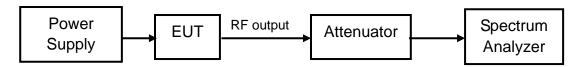
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2.2.2 Occupied Bandwidth - FCC Part 2.1049/Part 27.53(f)

Ambient condition:

Temperature	Relative humidity	Pressure
22°C	46%	101.5kPa

Test Setup:



Test procedure:

The EUT was connected to a spectrum analyzer via the main RF connector, and through an appropriate attenuator. Diversity RF connectors were connected to 50 Ohm match load. The EUT was controlled to transmit its maximum power. Then the bandwidth of 99% power can be measured by the spectrum analyzer.

The measurement will be conducted at three channels, Bottom channel (701MHz), Middle channel (719MHz) and Top channel (743MHz)

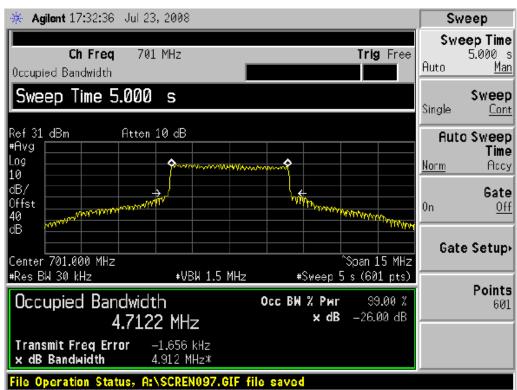
Test result:

All test modes were considered for this test. All typical frequency points were considered for this test.

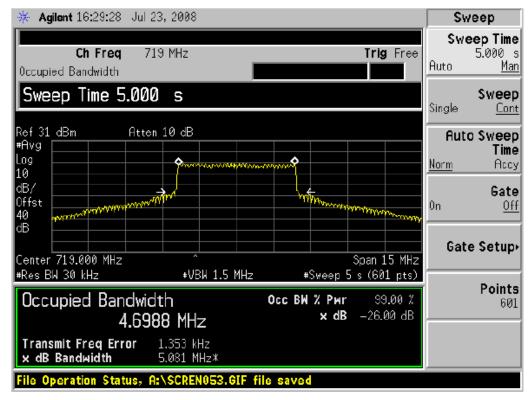
	Occupied Bandwidth (99% Power Bandwidth) (MHz)			
Test Mode	CH Bottom (701MHz)	CH Middle (719MHz)	CH Top (743MHz)	
QPSK	4.71	4.70	4.71	
8PSK	4.70	4.70	4.73	
16QAM	4.70	4.70	4.72	
64QAM	4.71	4.71	4.80	
Limit	5MHz			
Conclusion	Complies			

Test plots:

Modulation Mode: QPSK

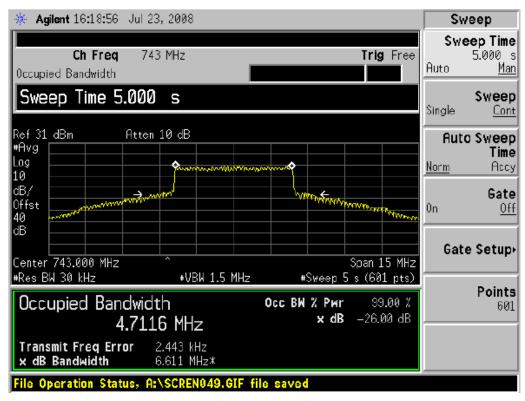


Occupied Bandwidth on CH Bottom



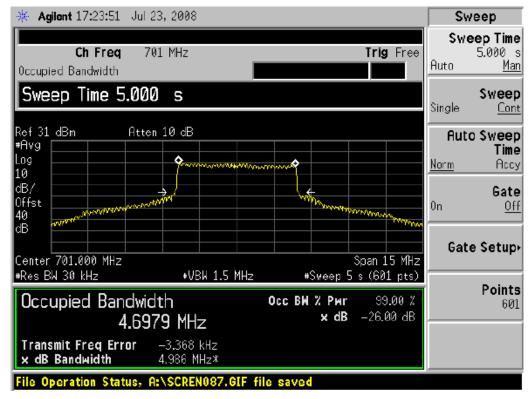
Occupied Bandwidth on CH Middle

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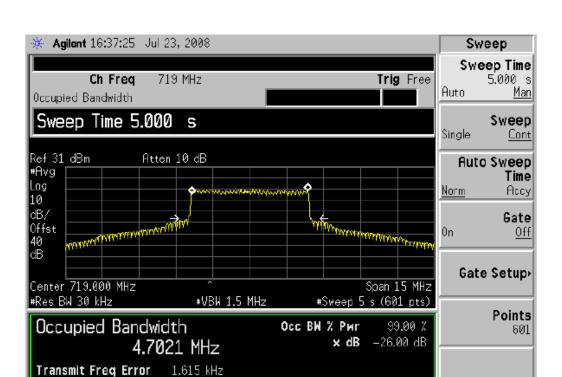
Occupied Bandwidth on CH Top

Modulation Mode: 8PSK



Occupied Bandwidth on CH Bottom

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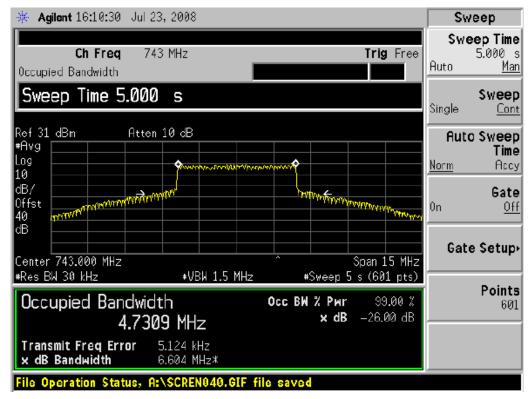


Occupied Bandwidth on CH Middle

5.068 MHz*

File Operation Status, A:\SCREN061.GIF file saved

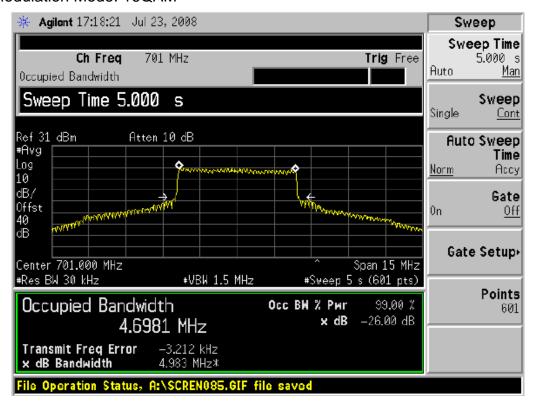
x dB Bandwidth



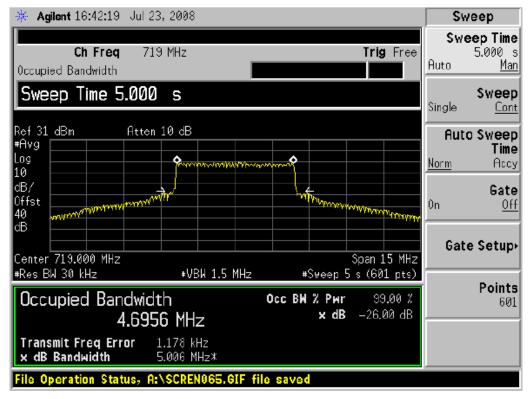
Occupied Bandwidth on CH Top

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Modulation Mode: 16QAM

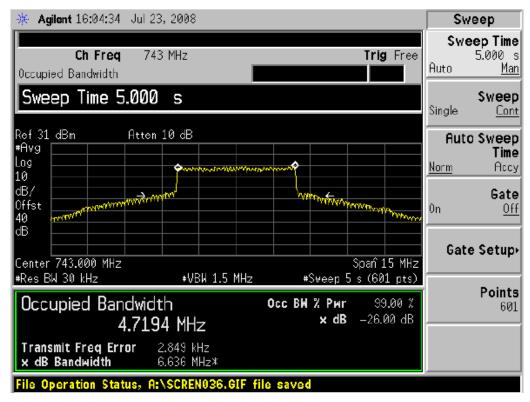


Occupied Bandwidth on CH Bottom



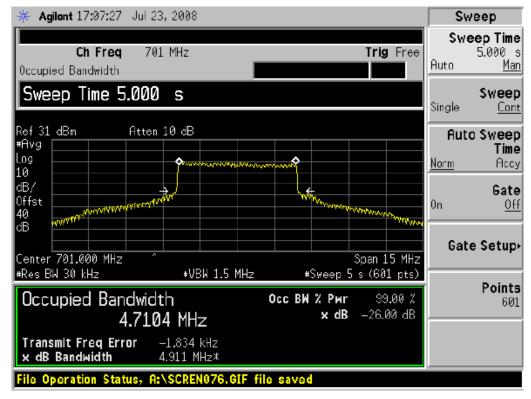
Occupied Bandwidth on CH Middle

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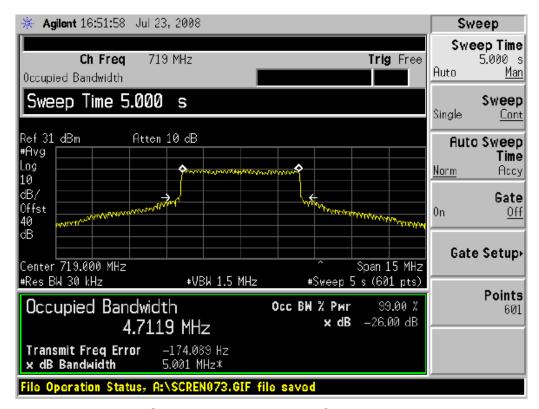
Occupied Bandwidth on CH Top

Modulation Mode: 64QAM

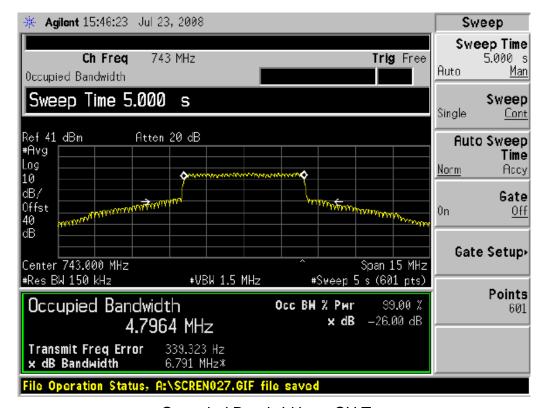


Occupied Bandwidth on CH Bottom

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Occupied Bandwidth on CH Middle



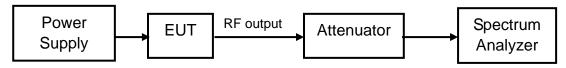
Occupied Bandwidth on CH Top

2.2.3 Conducted Spurious Emissions - FCC Part 2.1051/Part 27.53(f)

Ambient condition:

Temperature	Relative humidity	Pressure
23°C	45%	101.3kPa

Test Setup:



Test procedure:

The EUT was connected to a spectrum analyzer via the main RF connector, and through an appropriate attenuator. Diversity RF connectors were connected to 50 Ohm match load. The EUT was controlled to transmit its maximum power. Then the maximum unwanted emissions of the EUT can be measured by the spectrum analyzer.

The measurement will be conducted at three channels, Bottom channel (701MHz), Middle channel (719MHz) and Top channel (743MHz)

Test result:

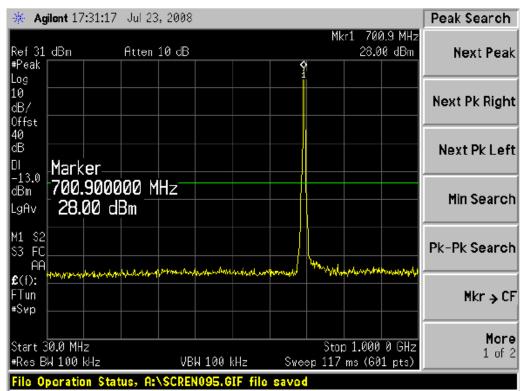
All test modes were considered for this test. All typical frequency points were considered for this test.

considered for this test.				
Test Frequency by plot		Conducted Spurious Emissions		
Mode	range C	CH Bottom (701MHz)	CH Middle (719MHz)	CH Top (743MHz)
	30MHz ~ 1GHz	Refer to test	Refer to test plots	Refer to test plots
QPSK	1GHz ~ 5GHz	plots		
	5GHz ~ 8GHz	p. 10	p	p
	30MHz ~ 1GHz	Refer to test plots	Defeate to the	Refer to test plots
8PSK	1GHz ~ 5GHz		Refer to test plots	
	5GHz ~ 8GHz			
	30MHz ~ 1GHz	Refer to test	Refer to test Refer to te plots plots	Pofor to toot
16QAM	1GHz ~ 5GHz	plots		
	5GHz ~ 8GHz			
	30MHz ~ 1GHz	Defeate toot	Defeate toot	Defer to toot
64QAM	1GHz ~ 5GHz	Refer to test		Refer to test
	5GHz ~ 8GHz	plots	plots	plots
	Limit	-13dBm		
	Conclusion	Complies		

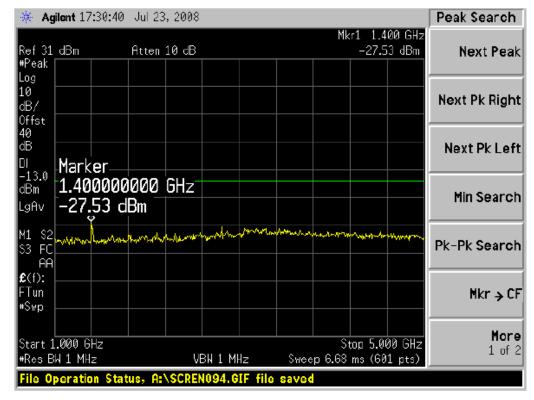
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Test plots:

Modulation Mode: QPSK



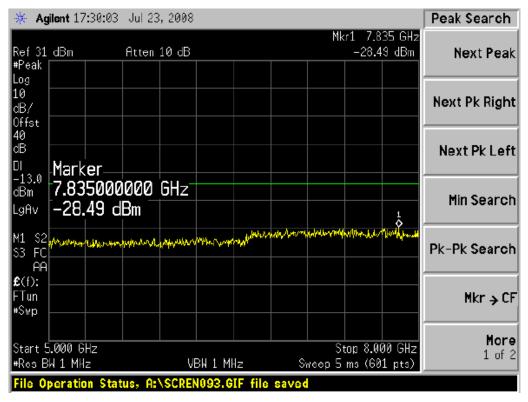
30MHz ~ 1GHz Conducted Spurious Emissions on CH Bottom Note: The signal beyond the limit is carrier.



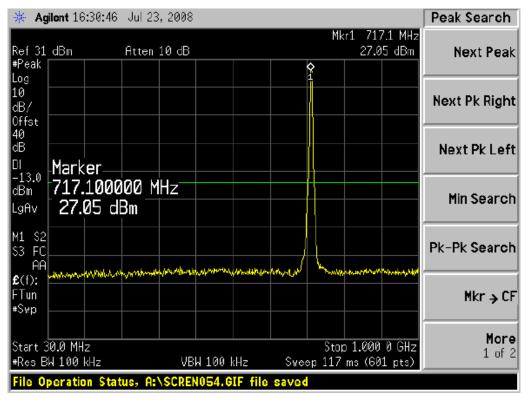
1GHz ~ 5GHz Conducted Spurious Emissions on CH Bottom

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fax:86-10-68009195 68009205

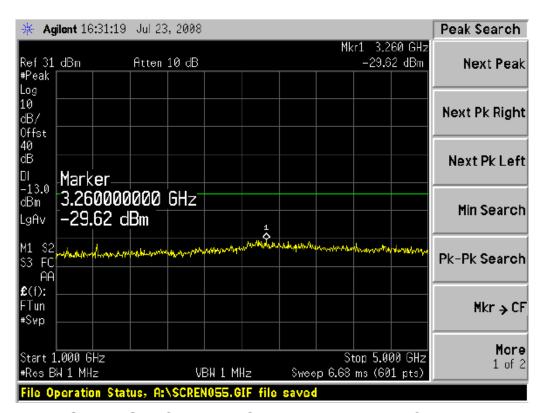


5GHz ~ 8GHz Conducted Spurious Emissions on CH Bottom

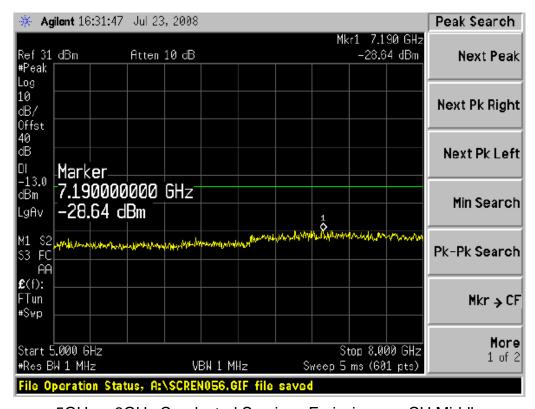


30MHz ~ 1GHz Conducted Spurious Emissions on CH Middle Note: The signal beyond the limit is carrier.

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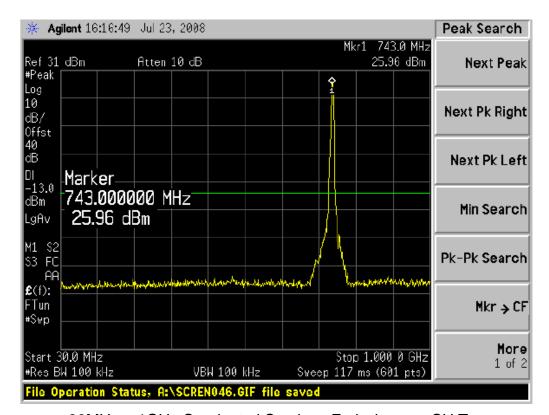


1GHz ~ 5GHz Conducted Spurious Emissions on CH Middle

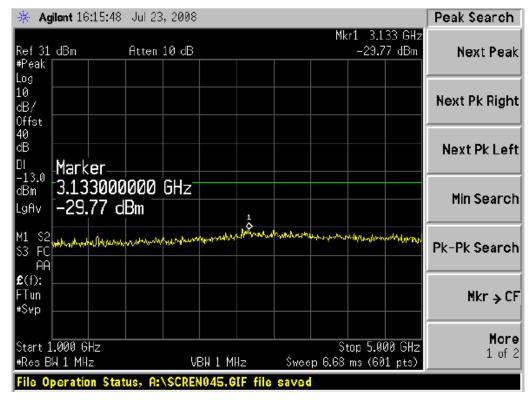


5GHz ~ 8GHz Conducted Spurious Emissions on CH Middle

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 $30 MHz \sim 1 GHz$ Conducted Spurious Emissions on CH Top Note: The signal beyond the limit is carrier.



1GHz ~ 5GHz Conducted Spurious Emissions on CH Top

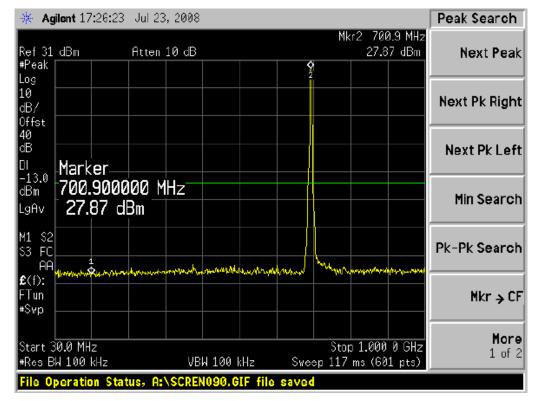
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Agilent 16:15:24 Jul 23, 2008 Trace Mkr1 7.325 GHz Trace -30.41 dBm Ref 31 dBm Atten 10 dB #Peak Log 10 Clear Write dB/ Offst 40 dB Max Hold Marker--13.07.325000000 GHz dBm Min Hold -30.41 dBm LgAv View FC \$3 AΑ **£**(f): FTun Blank #Swp More Start 5.000 GHz Stop 8.000 GHz 1 of 2 Sweep 5 ms (601 pts) #Res BW 1 MHz VBW 1 MHz

5GHz ~ 8GHz Conducted Spurious Emissions on CH Top

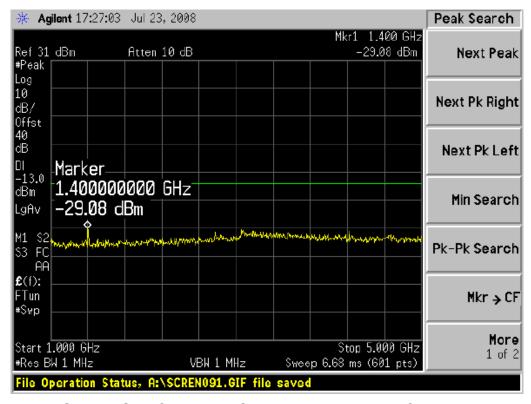
Modulation Mode: 8PSK

File Operation Status, A:\SCREN044.GIF file saved

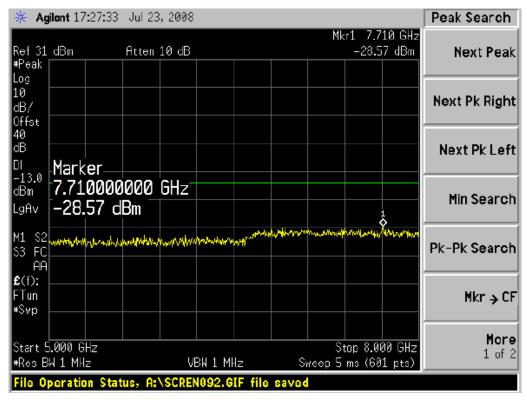


30MHz ~ 1GHz Conducted Spurious Emissions on CH Bottom Note: The signal beyond the limit is carrier.

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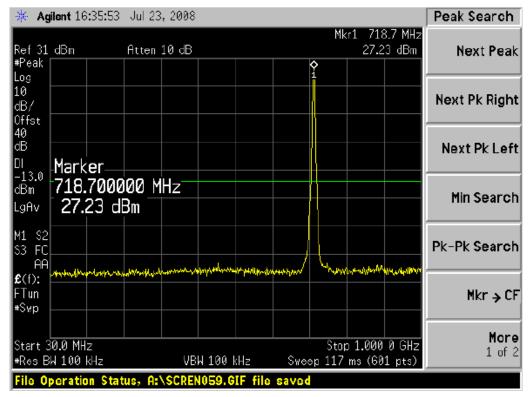


1GHz ~ 5GHz Conducted Spurious Emissions on CH Bottom

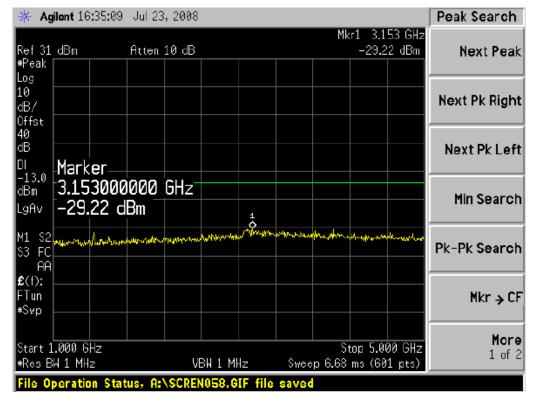


5GHz ~ 8GHz Conducted Spurious Emissions on CH Bottom

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30MHz ~ 1GHz Conducted Spurious Emissions on CH Middle Note: The signal beyond the limit is carrier.



1GHz ~ 5GHz Conducted Spurious Emissions on CH Middle

#Res BW 1 MHz

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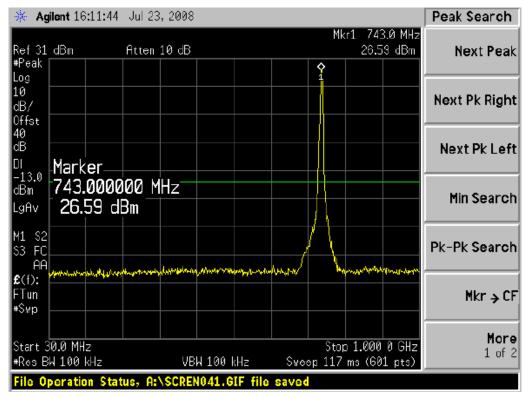
Agilent 16:34:32 Jul 23, 2008 Peak Search Mkr1 7.010 GHz -28.31 dBm Ref 31 dBm Atten 10 dB **Next Peak** #Peak Log 10 **Next Pk Right** dB/ Offst 40 dB Next Pk Left Marker -13.0 7.0100000000 GHz dBm Min Search -28.31 dBm LgAv M1 S2 S3 FC Pk-Pk Search AΑ **£**(f): FTun $Mkr \rightarrow CF$ #Ѕүр More Start 5.000 GHz Stop 8.000 GHz 1 of 2

5GHz ~ 8GHz Conducted Spurious Emissions on CH Middle

Sweep 5 ms (601 pts)

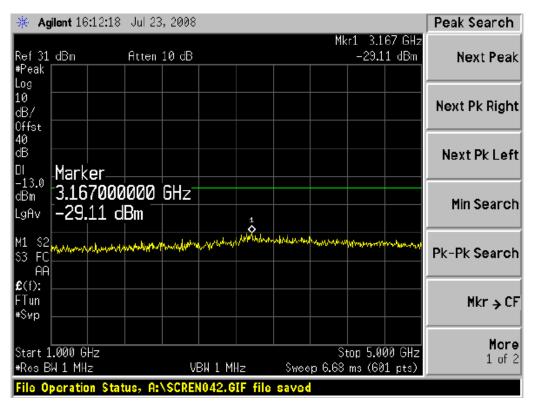
VBW 1 MHz

File Operation Status, A:\SCREN057.GIF file saved

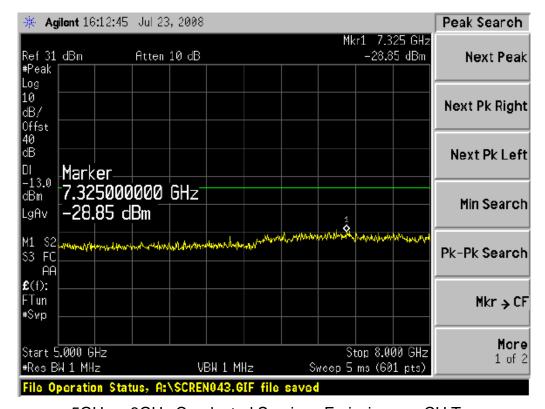


 $30 MHz \sim 1 GHz$ Conducted Spurious Emissions on CH Top Note: The signal beyond the limit is carrier.

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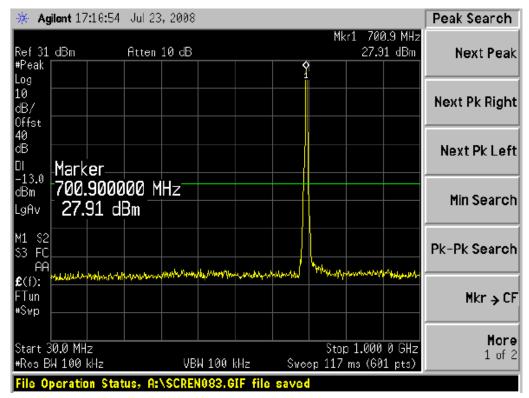


1GHz ~ 5GHz Conducted Spurious Emissions on CH Top

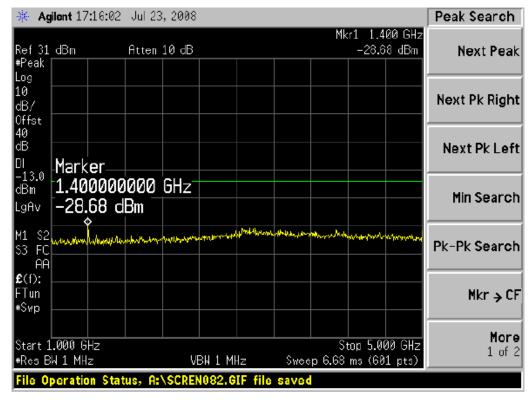


5GHz ~ 8GHz Conducted Spurious Emissions on CH Top

Modulation Mode: 16QAM

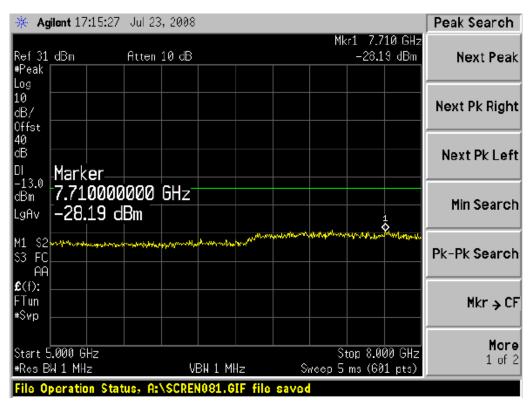


30MHz ~ 1GHz Conducted Spurious Emissions on CH Bottom Note: The signal beyond the limit is carrier.

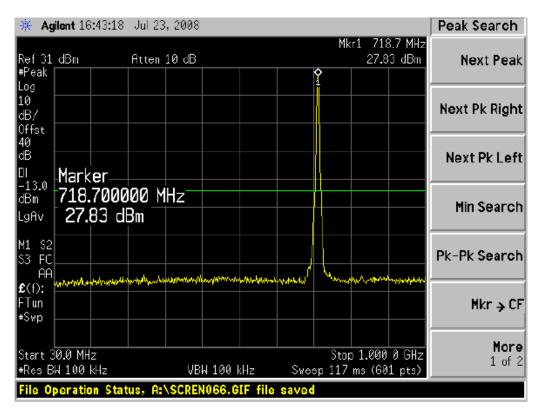


1GHz ~ 5GHz Conducted Spurious Emissions on CH Bottom

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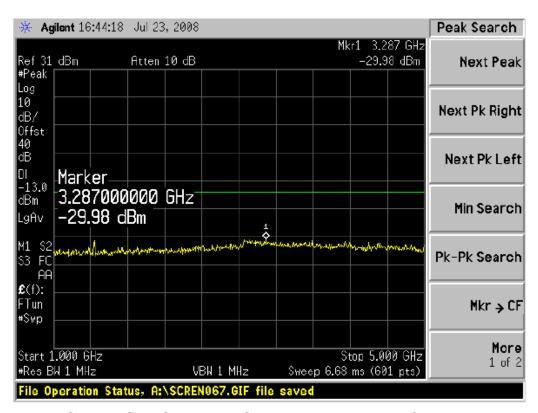


5GHz ~ 8GHz Conducted Spurious Emissions on CH Bottom

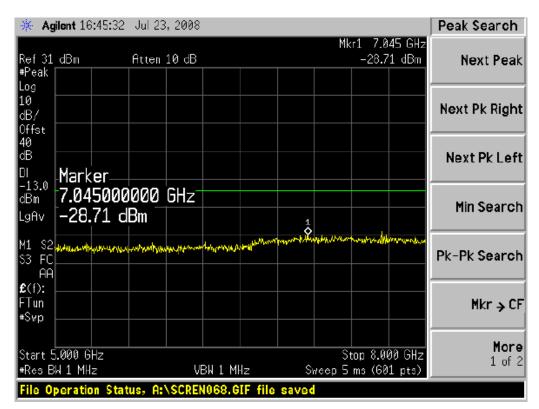


30MHz ~ 1GHz Conducted Spurious Emissions on CH Middle Note: The signal beyond the limit is carrier.

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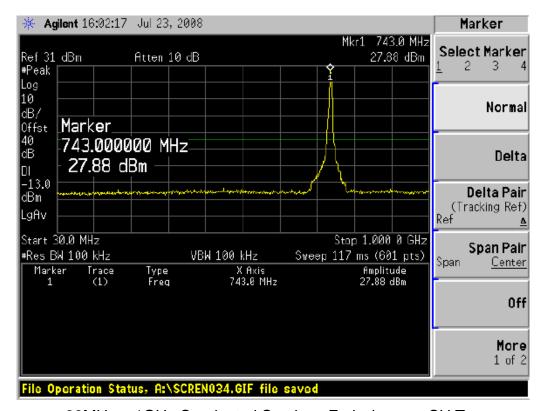


1GHz ~ 5GHz Conducted Spurious Emissions on CH Middle

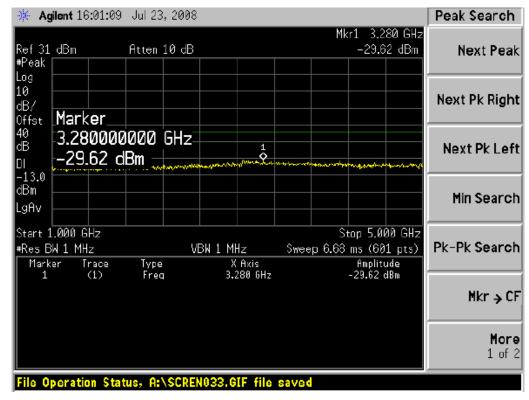


5GHz ~ 8GHz Conducted Spurious Emissions on CH Middle

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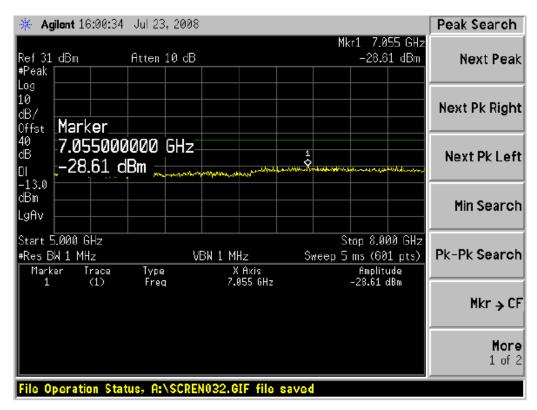
 $30 MHz \sim 1 GHz$ Conducted Spurious Emissions on CH Top Note: The signal beyond the limit is carrier.



1GHz ~ 5GHz Conducted Spurious Emissions on CH Top

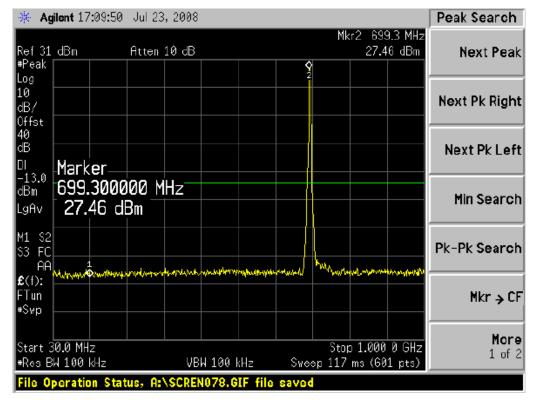
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fax:86-10-68009195 68009205



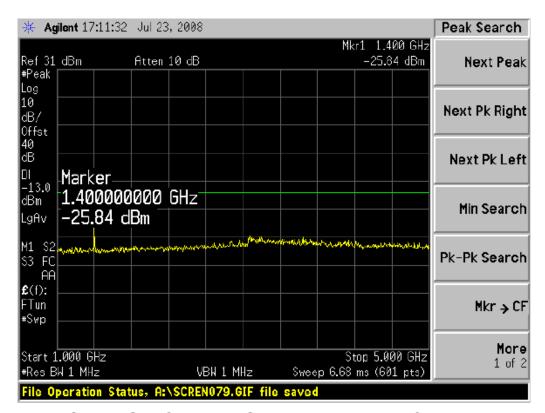
5GHz ~ 8GHz Conducted Spurious Emissions on CH Top

Modulation Mode: 64QAM

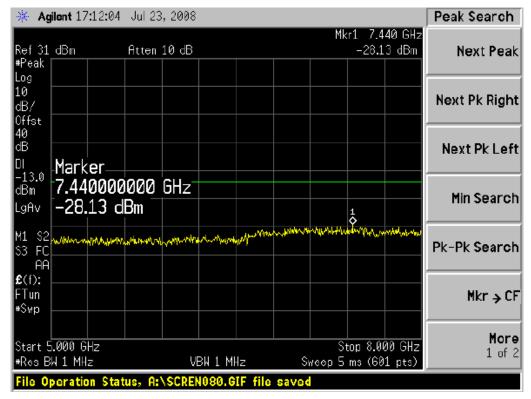


30MHz ~ 1GHz Conducted Spurious Emissions on CH Bottom Note: The signal beyond the limit is carrier.

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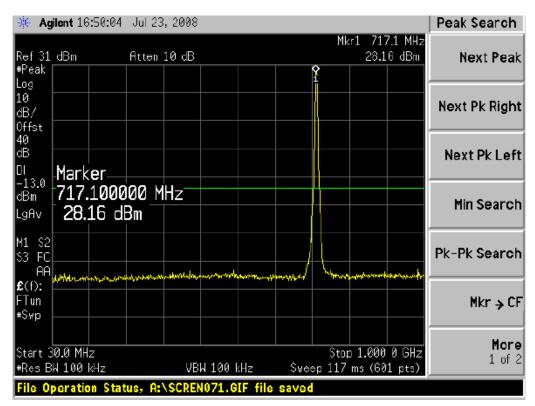


1GHz ~ 5GHz Conducted Spurious Emissions on CH Bottom

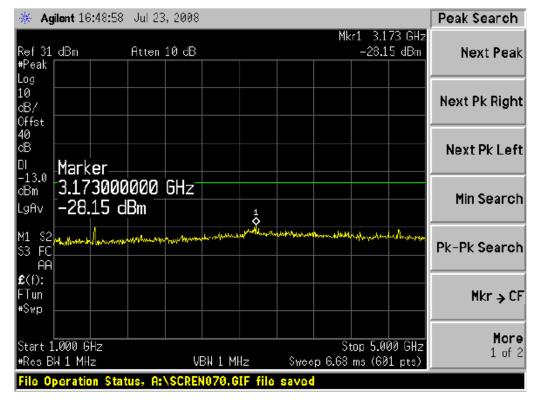


5GHz ~ 8GHz Conducted Spurious Emissions on CH Bottom

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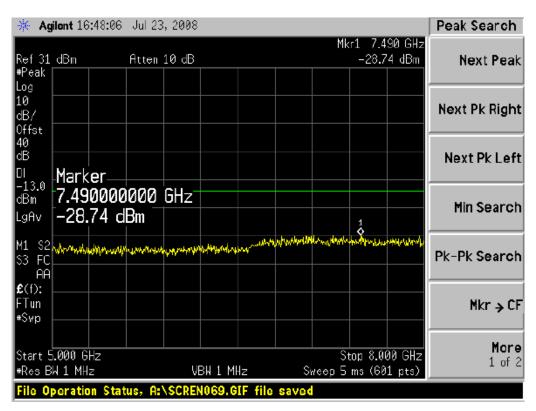


30MHz ~ 1GHz Conducted Spurious Emissions on CH Middle Note: The signal beyond the limit is carrier.

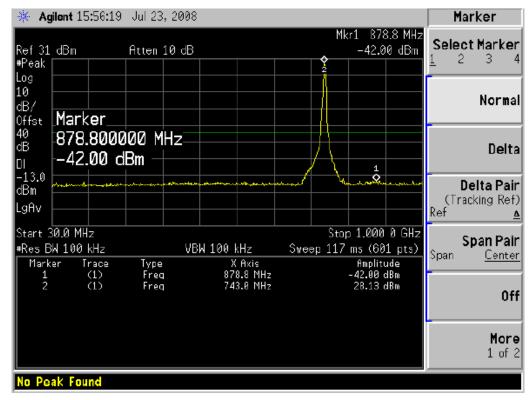


1GHz ~ 5GHz Conducted Spurious Emissions on CH Middle

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5GHz ~ 8GHz Conducted Spurious Emissions on CH Middle

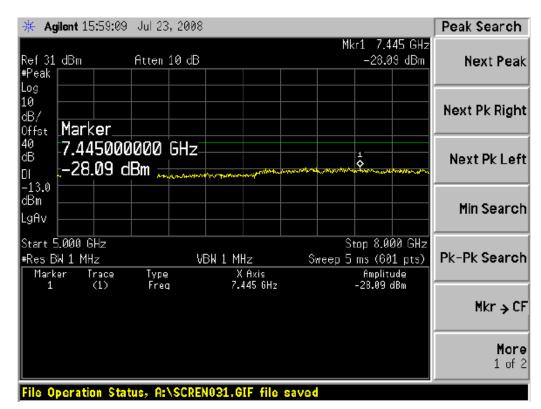


 $30 MHz \sim 1 GHz$ Conducted Spurious Emissions on CH Top Note: The signal beyond the limit is carrier.

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1GHz ~ 5GHz Conducted Spurious Emissions on CH Top



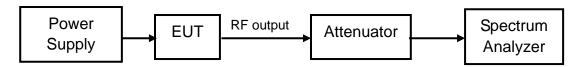
5GHz ~ 8GHz Conducted Spurious Emissions on CH Top

2.2.4 Band Edges Compliance - FCC Part 2.1051/Part 27.53(f)

Ambient condition:

Temperature	Relative humidity	Pressure
21°C	45%	101.2kPa

Test Setup:



Test procedure:

The EUT was connected to a spectrum analyzer via the main RF connector, and through an appropriate attenuator. Diversity RF connectors were connected to 50 Ohm match load. The EUT was controlled to transmit its maximum power. Then the maximum band edge emissions of the EUT can be measured by the spectrum analyzer. The peak detector is used and RBW is set to 3KHz on spectrum analyzer.

The measurement will be conducted at two channels, Bottom channel (701MHz) and Top channel (743MHz).

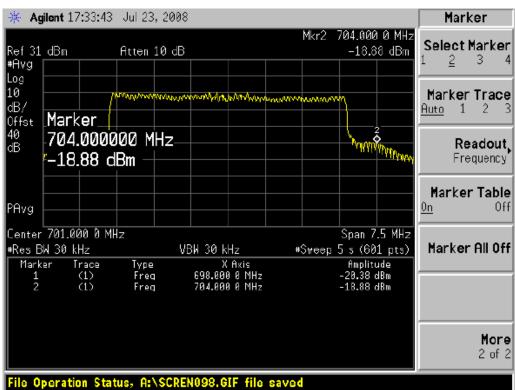
Test result:

All test modes were considered for this test. Only channel bottom and channel top operating frequency points were considered for this test.

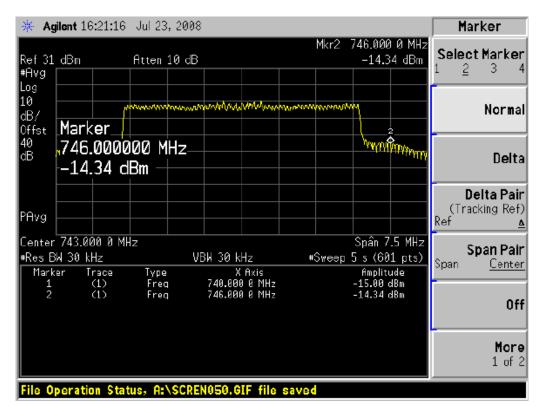
	Band Edge Power-P(W) (dBm)		
Test Mode	CH Bottom (701MHz)	CH Top (743MHz)	
QPSK	Refer to test plots	Refer to test plots	
8PSK	Refer to test plots Refer to test p		
16QAM	Refer to test plots	Refer to test plots	
64QAM	Refer to test plots	Refer to test plots	
Limit	-13dBm		
Conclusion	Complies		

Test plots:

Modulation Mode: QPSK

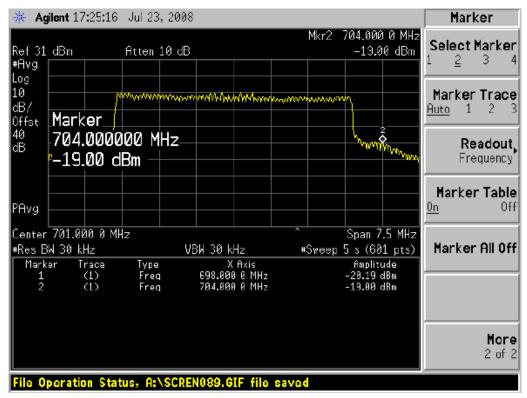


Band Edge Compliance on CH Bottom

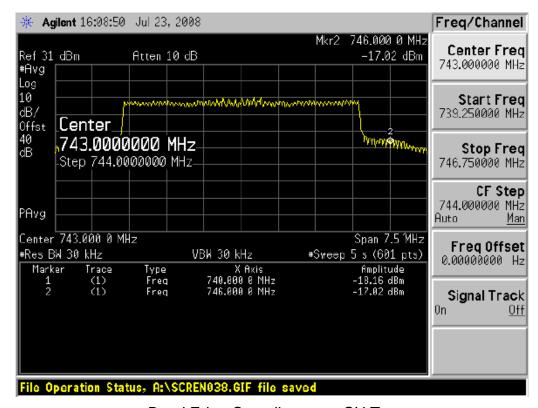


Band Edge Compliance on CH Top

Modulation Mode: 8PSK

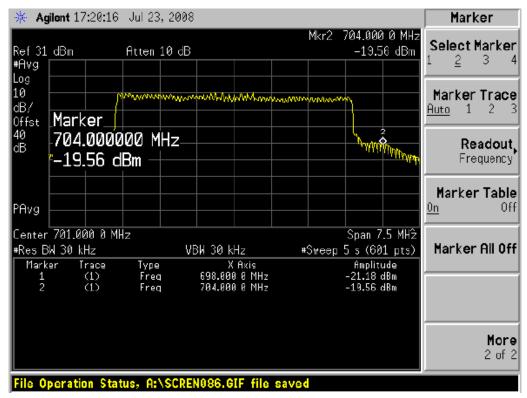


Band Edge Compliance on CH Bottom

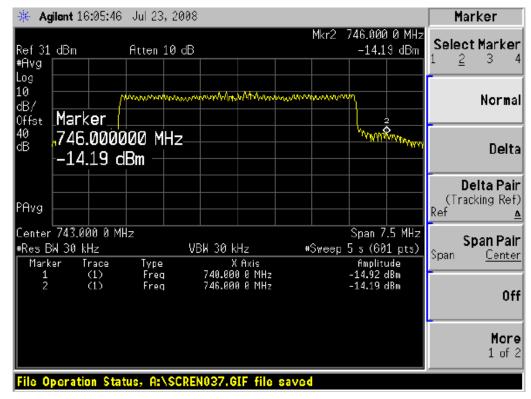


Band Edge Compliance on CH Top

Modulation Mode: 16QAM



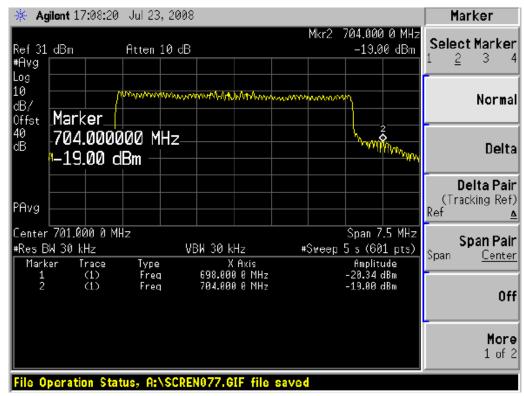
Band Edge Compliance on CH Bottom



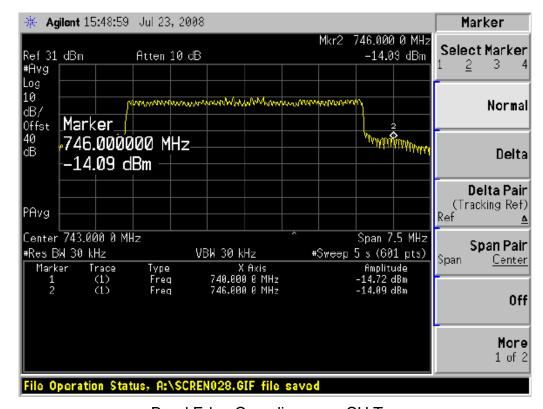
Band Edge Compliance on CH Top

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Modulation Mode: 64QAM



Band Edge Compliance on CH Bottom



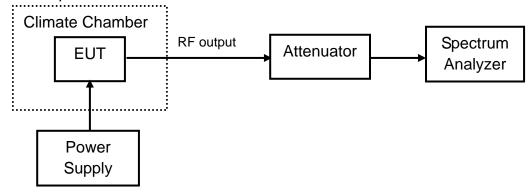
Band Edge Compliance on CH Top

2.2.5 Frequency Stability - FCC Part 2.1055/Part 27.54

Ambient condition:

Temperature	Relative humidity	Pressure
23°C	46%	101.5kPa

Test Setup:



Test Procedure:

The EUT was connected to a spectrum analyzer via the main RF connector, and through an appropriate attenuator. Diversity RF connectors were connected to 50 Ohm match load. The EUT was controlled to transmit carrier signal. Then the frequency error of the EUT can be measured by the spectrum analyzer. The temperature inside the climate chamber is varied from 0° C to $+50^{\circ}$ C in 10° C step size. And also the power supply voltage to the EUT is varied from 85 to 115 percent of the nominal value.

The measurement will be conducted at three channels, Bottom channel (701MHz), Middle channel (719MHz) and Top channel (743MHz)

Test result:
All typical frequency points were considered for this test.

Test conditions		Frequency error (ppm)			
Voltage(V)	Temp(°C)	CH Bottom (701MHz)	CH Middle (719MHz)	CH Top (743MHz)	
	0	0.06	0.06	0.06	
	10	-0.07	-0.04	0.06	
24	20	0.05	0.07	0.08	
24	30	-0.06	0.07	0.07	
	40	-0.04	-0.04	-0.04	
	50	0.06	0.03	0.05	
20.4 (85% Rated)	20	0.05	0.06	-0.04	
27.6 (115% Rated)	20	-0.08	0.04	0.05	
Limit		0.5 ppm			
Conclusion		Complies			

Note: The EUT can't operate normally below 0 ℃

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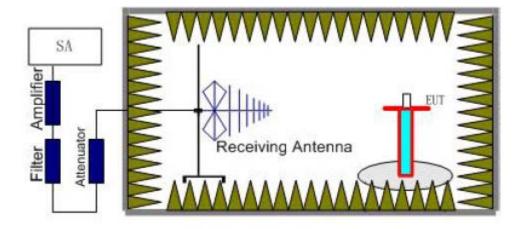
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2.2.6 Radiated Spurious Emissions - FCC Part 2.1053/Part 27.53(f)

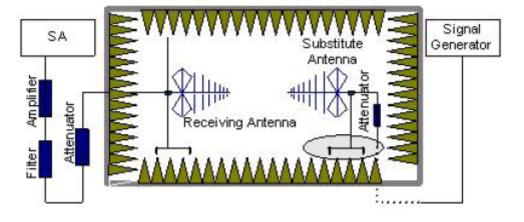
Ambient condition

Temperature	Relative humidity	Pressure
23°C	44%	101.0kPa

Test Setup:



Step 1



Step 2

Test procedure:

Step 1:

The measurement is carried out in the fully anechoic chamber. EUT was placed on a 2.4 meter high non-conductive table at a 3 meter test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. The height of receiving antenna is 2.4m and varies in certain range to find the maximum power value. The EUT shall be set to continuous transmitting mode under maximum output power. The

measurement is carried out using a spectrum analyzer or receiver. Then the antenna height and turn table rotation is adjusted till the maximum power value is founded on spectrum analyzer or receiver. A notch filter is necessary in the band near to the carrier frequency. A high pass filter is needed to avoid the distortion of the testing equipment in the band above the carrier frequency.

Step 2:

A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

Calculation procedure:

The data of cable loss, antenna gain and air loss has been calibrated in full testing frequency range before the testing.

The power of the Radiated Spurious Emissions is calculated by adding the cable loss, antenna gain and air loss. The basic equation with a sample calculation is as followed:

 $P=P_R+L_C+L_A-G$

Where

P: Power of the Radiated Spurious Emissions (dBm)

P_R: reading of the receiver (dBm)

L_C: Cable Lose (dB)

L_A: Air loss (dB)

G: Antenna Gain (dBi)

Assumed the reading of the receiver is -60dBm. A cable lose of 10dB, an air lose of 30dB and an antenna gain of 11dBi are added.

 $P=P_R+L_C+L_A-G=-60+10+30-11=-31dBm$

The measurement will be conducted at Middle channel (719MHz)

Test result:

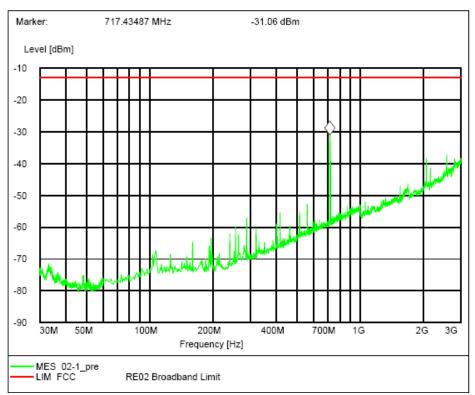
Only the results for worst case were recorded for this test. Only channel middle operating frequency points were considered for this test.

	0 , , ,			
Test	Frequency by plot	CH Middle		
Mode	range	(719MHz)		
QPSK	30MHz ~ 3GHz	Refer to test plots		
QI OIX	3GHz ~ 8GHz			
	Limit	-13dBm		
	Conclusion	Complies		

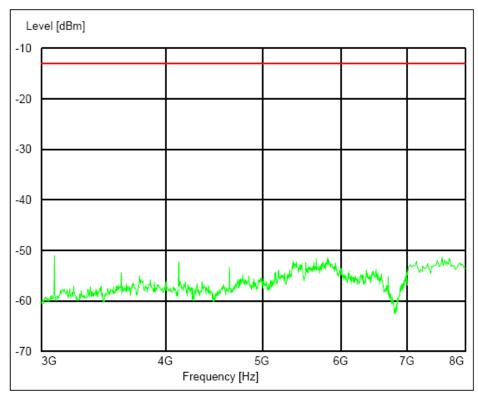
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Test plots:

Modulation Mode: QPSK



30MHz ~ 3GHz Radiated Spurious Emissions on CH Middle



3GHz ~ 8GHz Radiated Spurious Emissions on CH Middle

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2.3. List of test equipments

No.	Name/Model	Manufacturer	S/N	Calibration Start Date	Calibration Due Date
1	PSA E4440A Spectrum Analyzer	Agilent	MY41000183	Mar. 2009	Mar. 2010
2	66-30-33 Power Attenuator	Aeroflex / Weinschel	BV7049	Sep. 2008	Sep. 2009
3	SEWTH-Z-08 Climatic Chamber	ESPEC	7020030020	Aug. 2008	Aug. 2009
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA		Aug. 2008	Aug. 2009
5	ESI 40 EMI test receiver	R&S	100015	Aug. 2008	Aug. 2009
6	SMR 20 Signal generator	R&S	100086	Aug. 2008	Aug. 2009
7	12.65m*8.03m*7.50m Fully-Anechoic Chamber	FRANKONIA		Aug. 2008	Aug. 2009
8	HL562 Ultra log test antenna	R&S	100016	Aug. 2008	Aug. 2009
9	ESH3-Z2 Pulse limiter	R&S	10002	Aug. 2008	Aug. 2009
10	ESH3-Z5 Attenuator	R&S	100020	Aug. 2008	Aug. 2009
11	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	Aug. 2008	Aug. 2009
12	MA260 Antenna Master	FRANKONIA		Aug. 2008	Aug. 2009

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Appendix

Appendix1 Test Setup