

Digital:
Data + voice:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(136.025MHz)	36.78
	Middle(151.850MHz)	36.80
	Middle(155.025MHz)	36.75
	Middle(161.610MHz)	36.82
	Top (173.975MHz)	36.73

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(136.025MHz)	36.65
	Middle(151.850MHz)	36.67
	Middle(155.025MHz)	36.66
	Middle(161.610MHz)	36.70
	Top (173.975MHz)	36.68



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(136.025MHz)	29.80
	Middle(151.850MHz)	29.79
	Middle(155.025MHz)	29.83
	Middle(161.610MHz)	29.81
	Top (173.975MHz)	29.75

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(136.025MHz)	29.70
	Middle(151.850MHz)	29.75
	Middle(155.025MHz)	29.77
	Middle(161.610MHz)	29.76
	Top (173.975MHz)	29.73



Data transmission mode:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(136.025MHz)	36.64
	Middle(151.850MHz)	36.69
	Middle(155.025MHz)	36.65
	Middle(161.610MHz)	36.62
	Top (173.975MHz)	36.61

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(136.025MHz)	36.58
	Middle(151.850MHz)	36.61
	Middle(155.025MHz)	36.60
	Middle(161.610MHz)	36.63
	Top (173.975MHz)	36.59



Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(136.025MHz)	29.69
	Middle(151.850MHz)	29.70
	Middle(155.025MHz)	29.66
	Middle(161.610MHz)	29.63
	Top (173.975MHz)	29.64

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(136.025MHz)	29.58
	Middle(151.850MHz)	29.64
	Middle(155.025MHz)	29.60
	Middle(161.610MHz)	29.63
	Top (173.975MHz)	29.59



UHF:
Analog:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.89
	Middle(453.225MHz)	36.83
	Middle(454.025MHz)	36.92
	Top (469.975MHz)	36.90

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.85
	Middle(453.225MHz)	36.79
	Middle(454.025MHz)	36.88
	Top (469.975MHz)	36.84



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.85
	Middle(453.225MHz)	29.83
	Middle(454.025MHz)	29.90
	Top (469.975MHz)	29.84

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.75
	Middle(453.225MHz)	29.73
	Middle(454.025MHz)	29.81
	Top (469.975MHz)	29.80



Digital:
Data + voice:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.77
	Middle(453.225MHz)	36.75
	Middle(454.025MHz)	36.74
	Top (469.975MHz)	36.78

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.71
	Middle(453.225MHz)	36.69
	Middle(454.025MHz)	36.70
	Top (469.975MHz)	36.66



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.79
	Middle(453.225MHz)	29.74
	Middle(454.025MHz)	29.77
	Top (469.975MHz)	29.81

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.74
	Middle(453.225MHz)	29.68
	Middle(454.025MHz)	29.75
	Top (469.975MHz)	29.77



Data transmission mode:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.71
	Middle(453.225MHz)	36.69
	Middle(454.025MHz)	36.66
	Top (469.975MHz)	36.72

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.65
	Middle(453.225MHz)	36.63
	Middle(454.025MHz)	36.64
	Top (469.975MHz)	36.67



Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.69
	Middle(453.225MHz)	29.71
	Middle(454.025MHz)	29.70
	Top (469.975MHz)	29.65

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.59
	Middle(453.225MHz)	29.63
	Middle(454.025MHz)	29.66
	Top (469.975MHz)	29.65



11. SPURIOUS EMISSION ON ANTENNA PORT

11.1 PROVISIONS APPLICABLE

Please refer to FCC 47 CFR 2.1051, 2.1057, 22.359 & 90.210 for specification details.
Emissions shall be attenuated below the mean output power of the transmitter as follows:

FCC Rules	Attenuation Limit (dBc)
§ 22.359	At least 43 + 10 log (P) dB
§ 90.210	At least 50 + 10 log (P) dB

50 + 10 log (Pwatts)

Note: In general, the worse case attenuation requirement shown above was applied.

Calculation: Limit (dBm) = EL - 50 - 10 log₁₀ (TP)

EL is the emission level of the Output Power expressed in dBm,

In this application, the EL is P (dBm)

Limit (dBm) = P (dBm) - 50 - 10 log (Pwatts) = -20 dBm

43 + 10 log (Pwatts)

Calculation: Limit (dBm) = EL - 43 - 10 log₁₀ (TP)

Notes: EL is the emission level of the Output Power expressed in dBm,

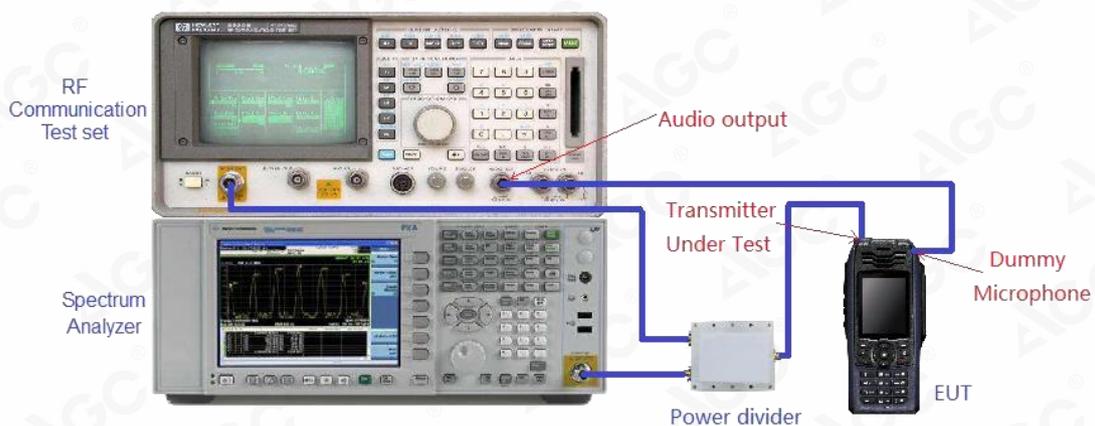
In this application, the EL is P (dBm).

Limit (dBm) = P (dBm) - 43 - 10 log (Pwatts) = -13 dBm

11.2 TEST PROCEDURE

1. The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation.
2. The resolution bandwidth of the spectrum analyzer was set to 100 kHz. Sufficient scans were taken to show any out of band emission up to 10th . Harmonic for the lower and the highest frequency range.
3. Set RBW 100 kHz, VBW 300 kHz in the frequency band 30MHz to 1GHz, while set RBW=1MHz. VBW=3MHz from the 1GHz to 10th Harmonic.
4. The audio input was set the unmodulated carrier, the resulting picture is print out for each channel separation.

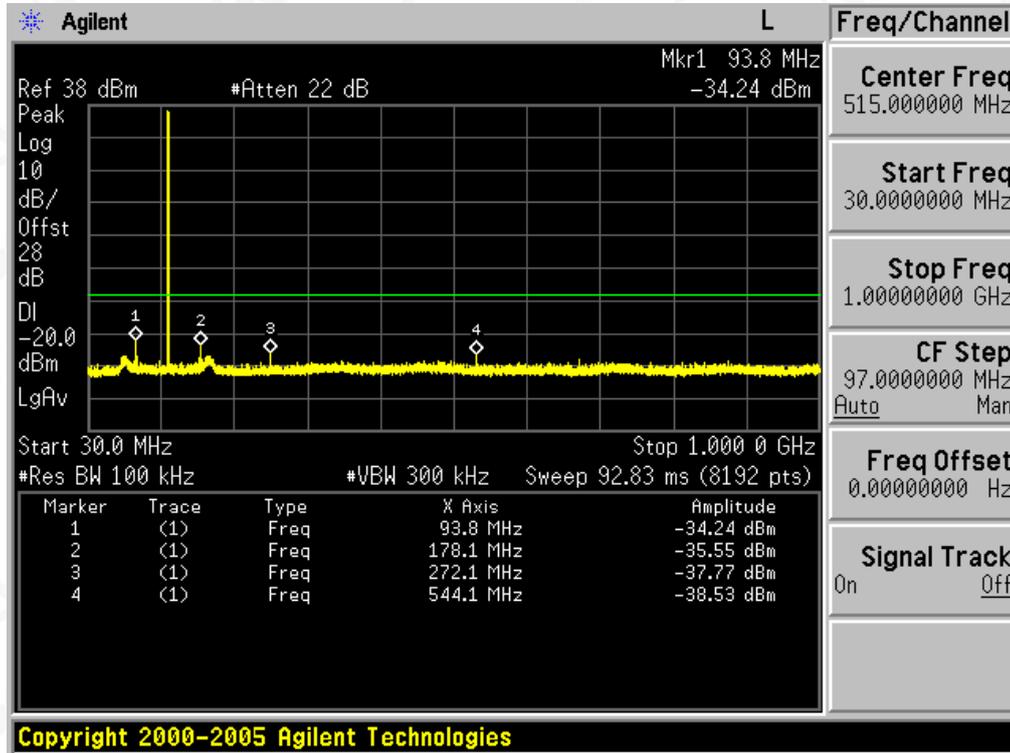
11.3 TEST CONFIGURATION



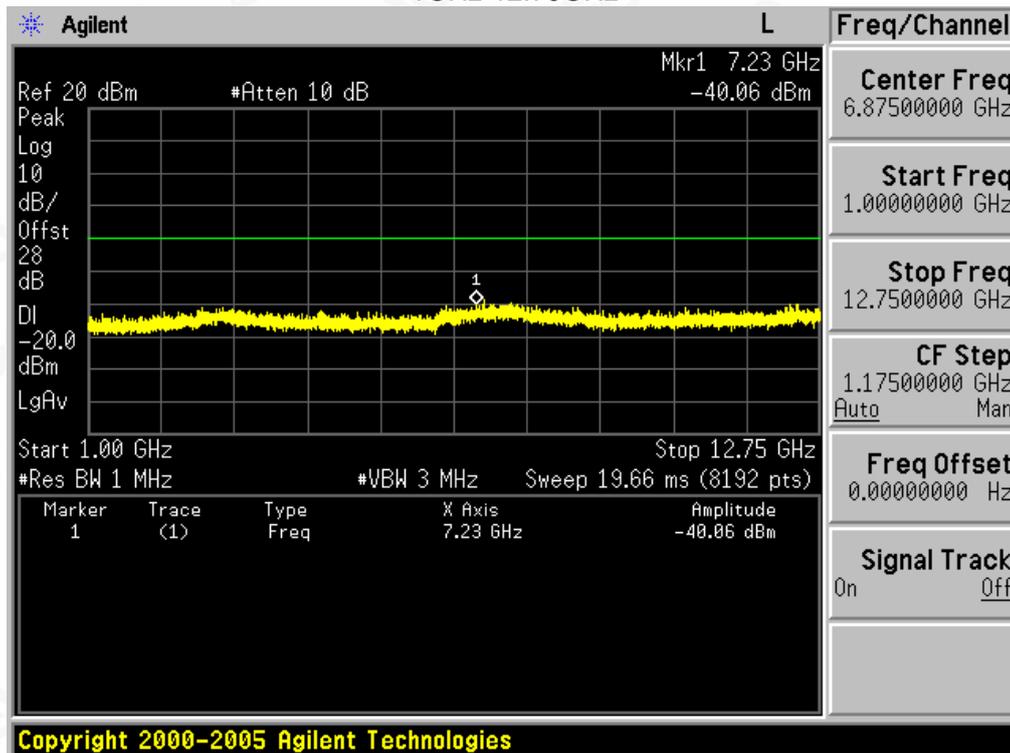
11.4 TEST RESULT

VHF: Analog:

Conducted Spurious Emission (worst) @136.025MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 136.025MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

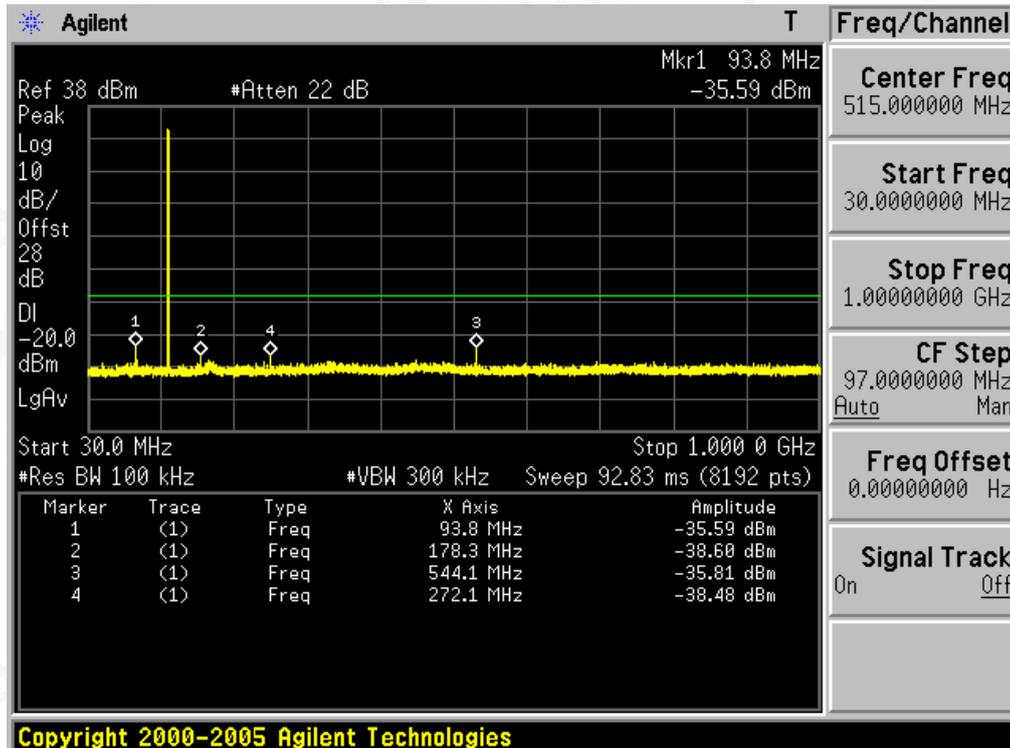
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

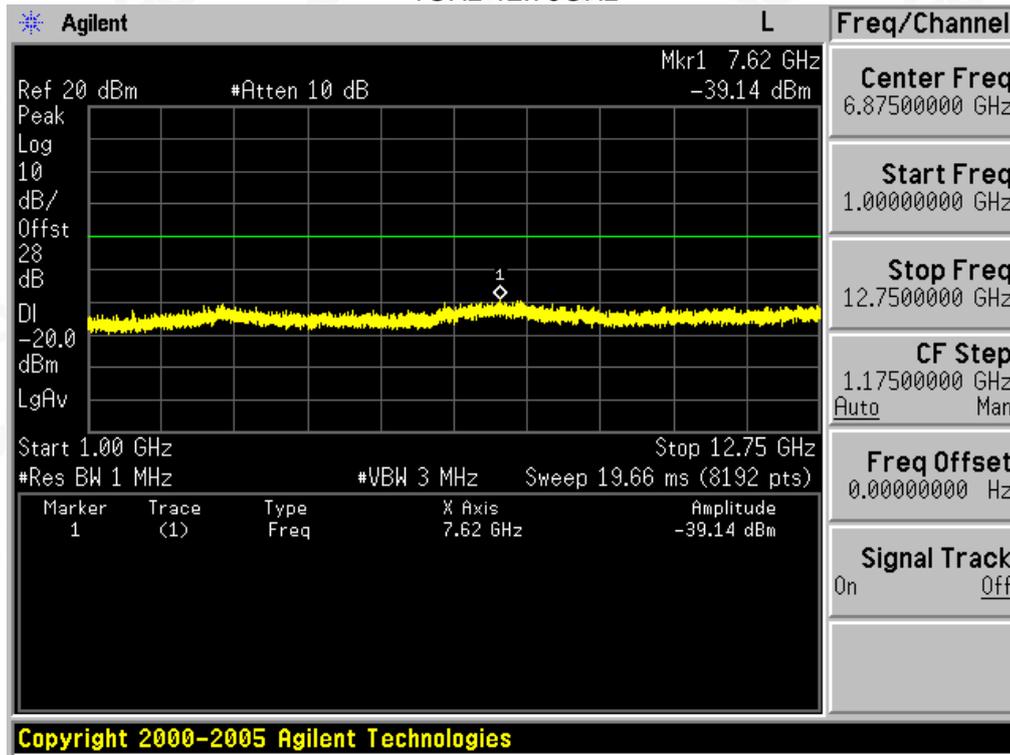
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

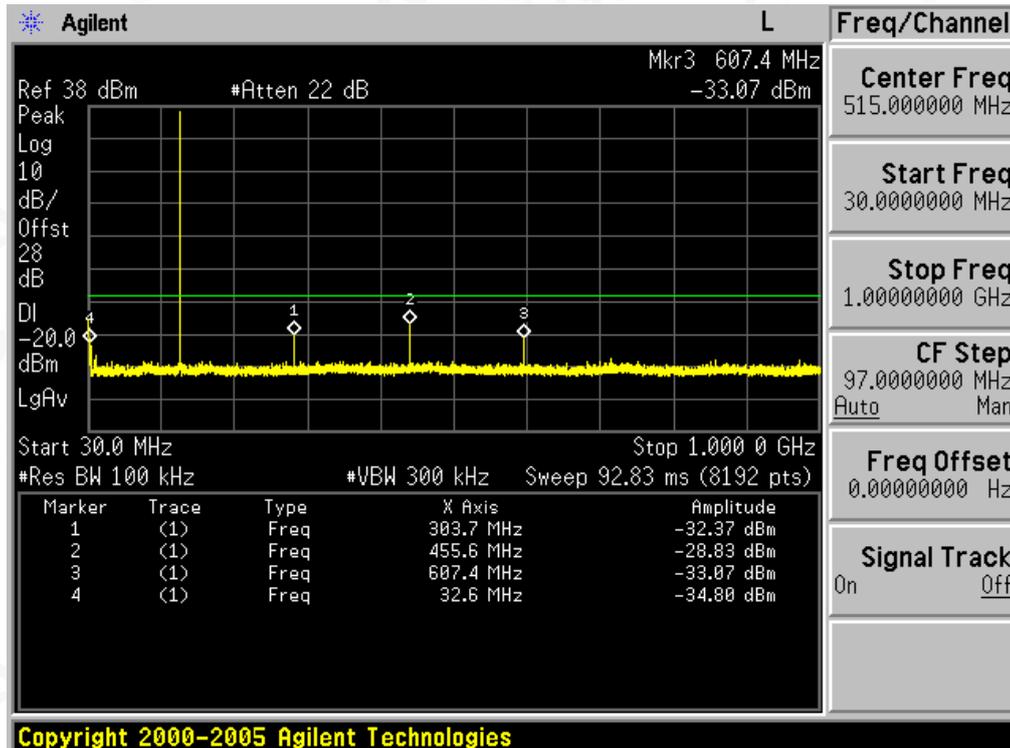
Conducted Spurious Emission (worst) @136.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



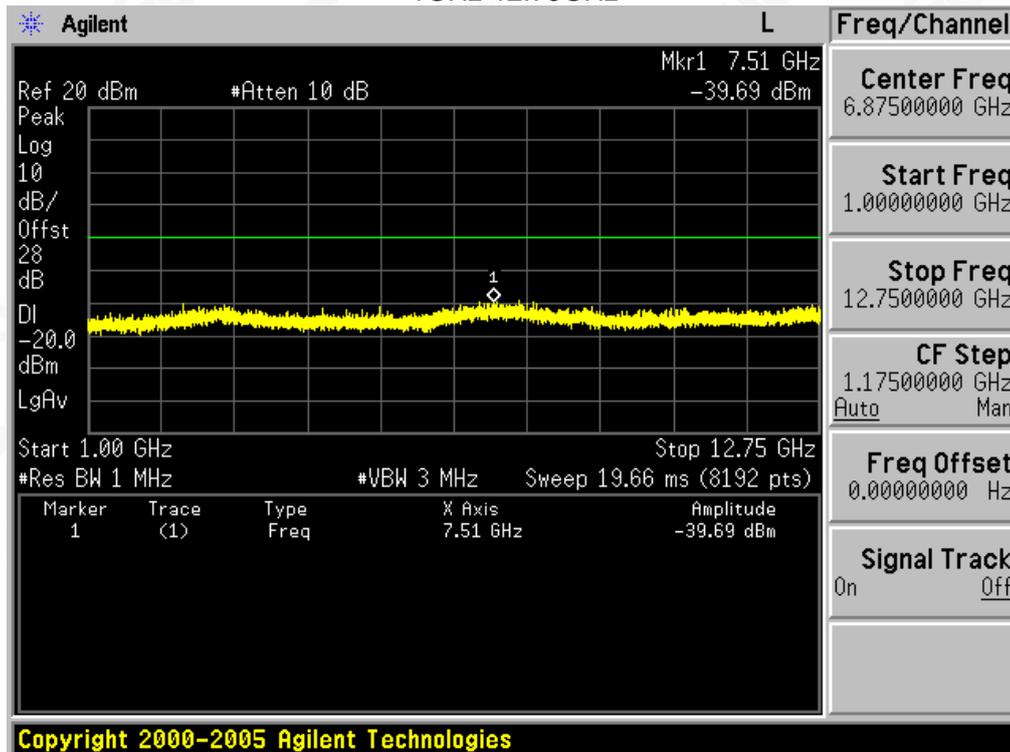
Conduct Spurious Emission (worst) @ 136.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Conducted Spurious Emission (worst) @151.850 MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



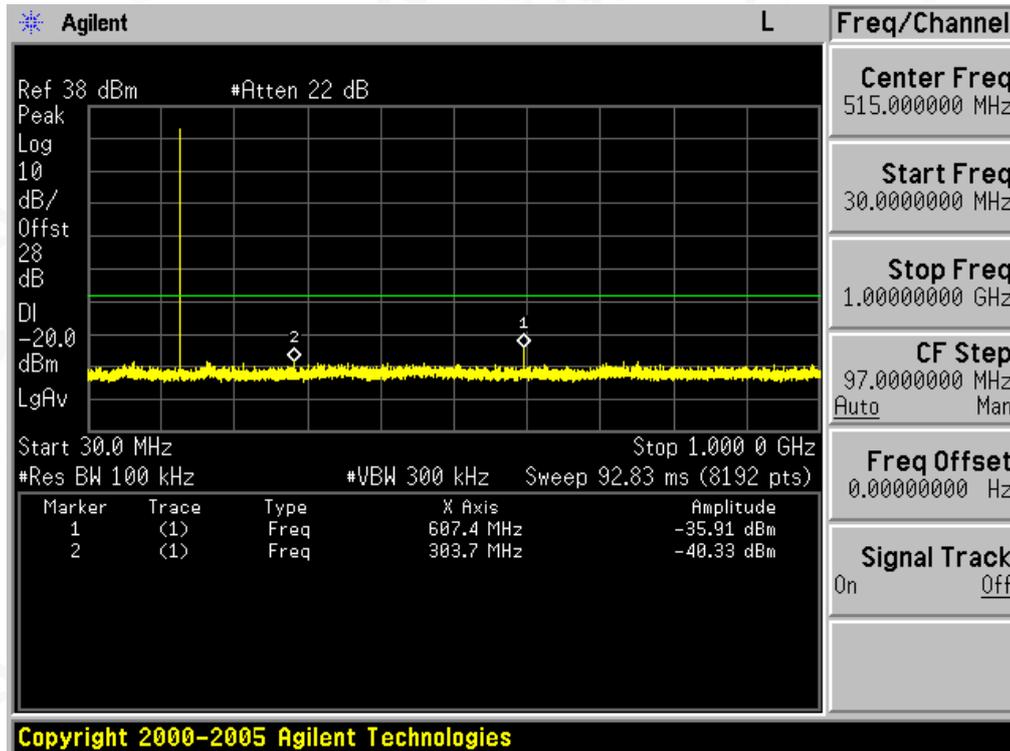
Conduct Spurious Emission (worst) @ 151.850MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



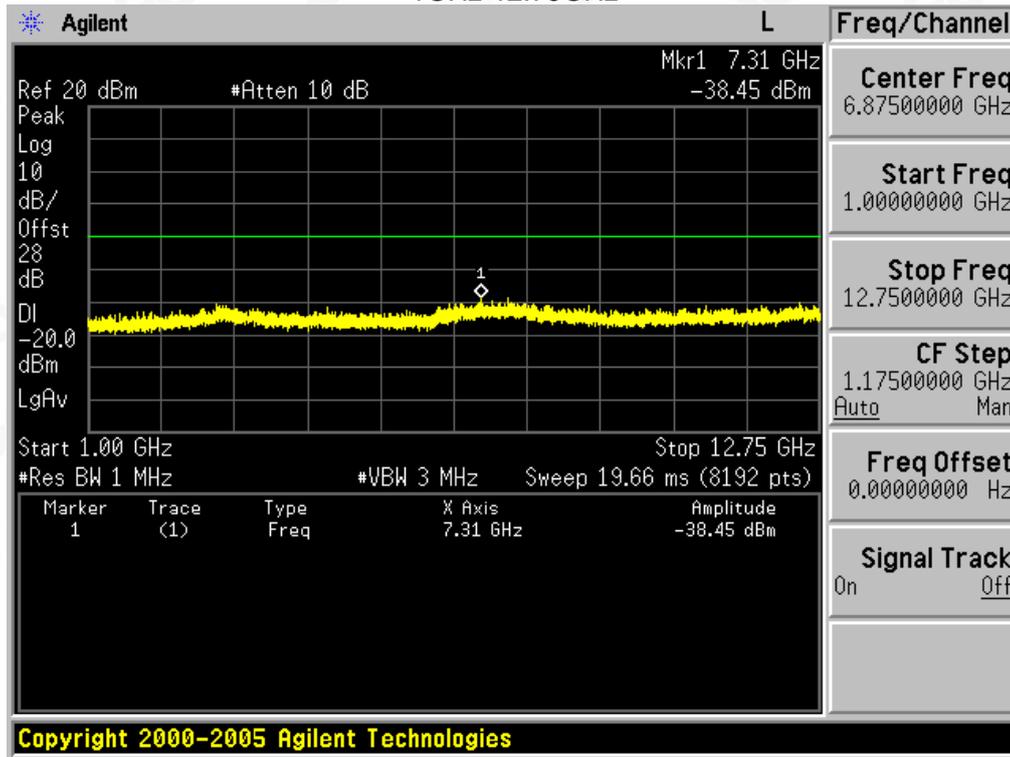
Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

Conducted Spurious Emission (worst) @151.850 MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 151.850MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

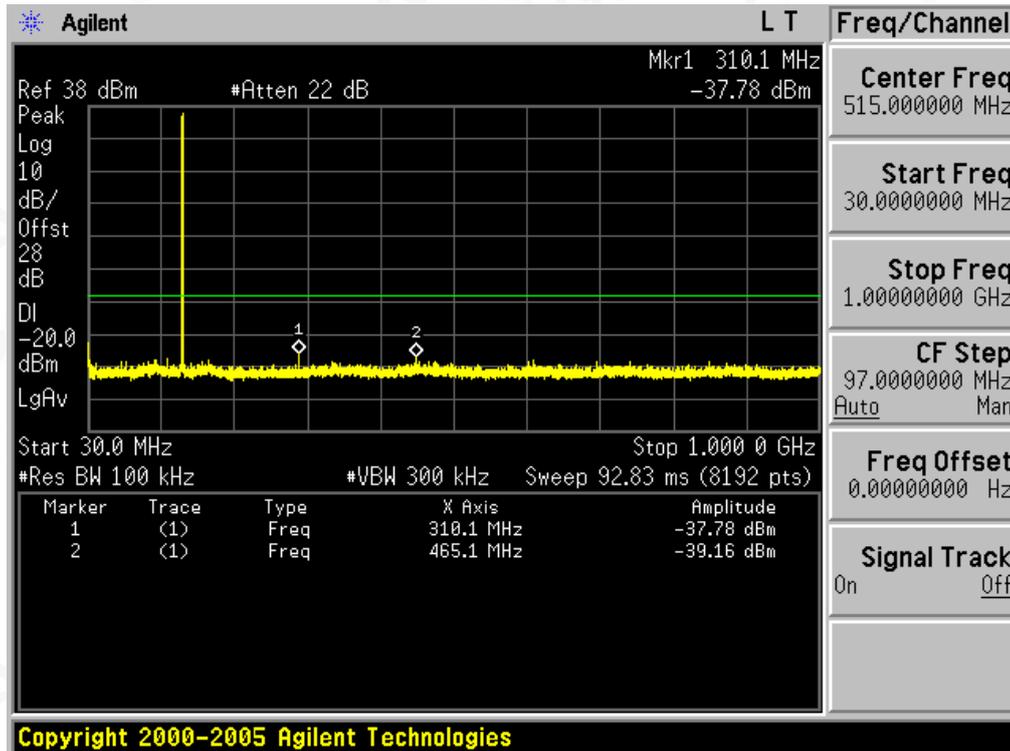
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

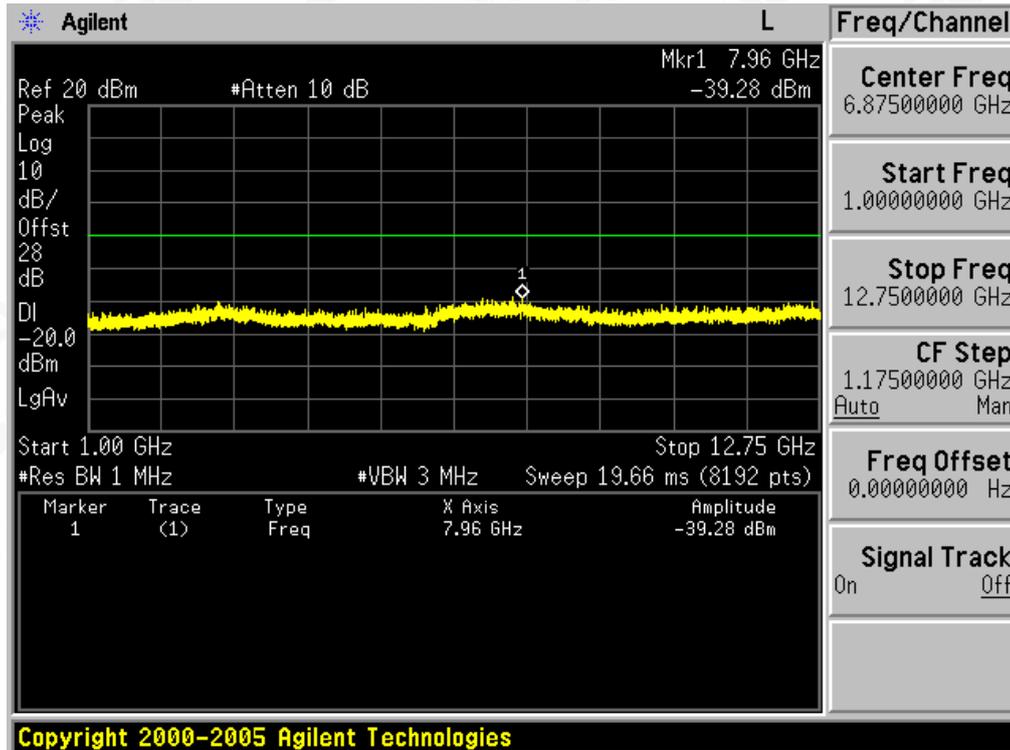
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

Conducted Spurious Emission (worst) @155.025 MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 155.025 MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

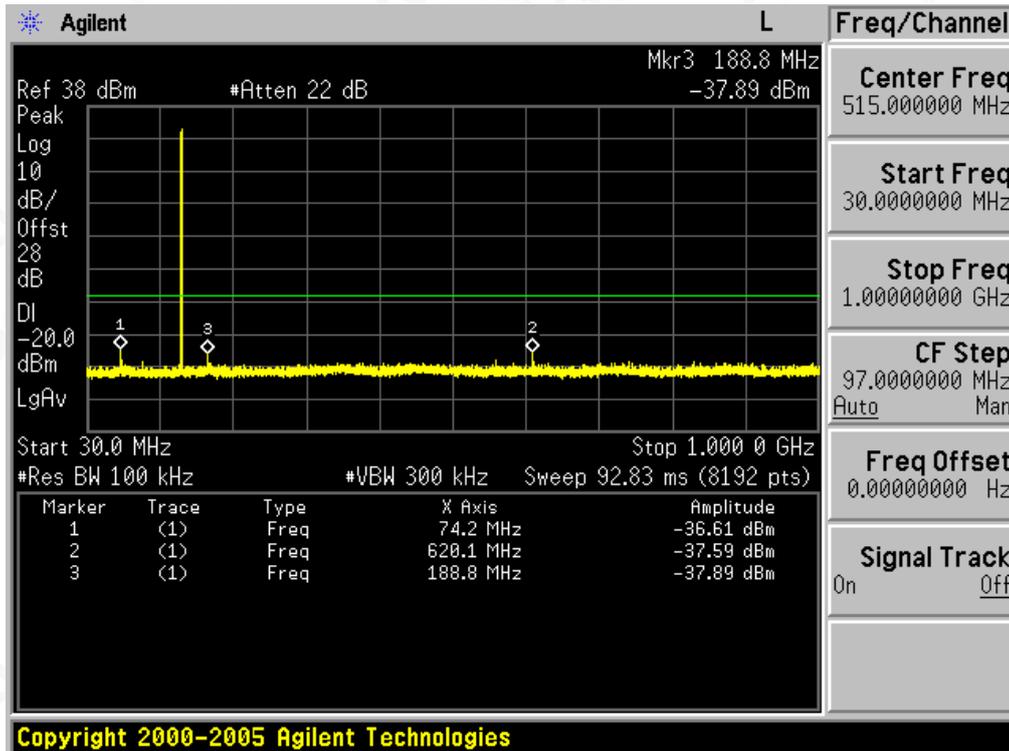
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

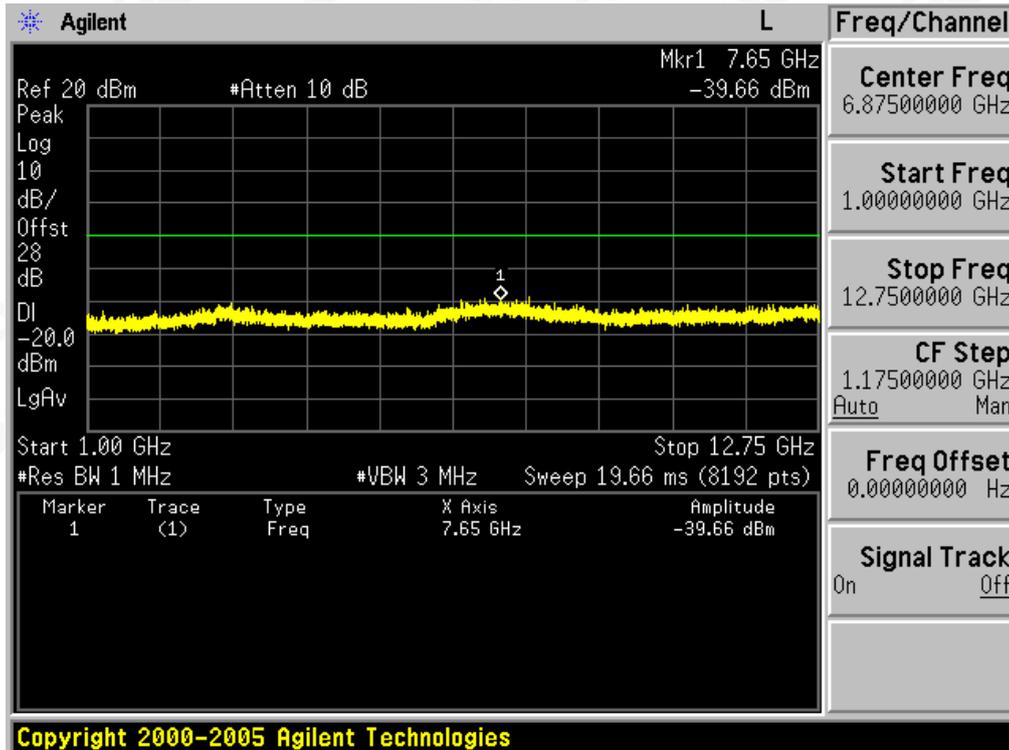
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

Conducted Spurious Emission (worst) @155.025 MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 155.025 MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

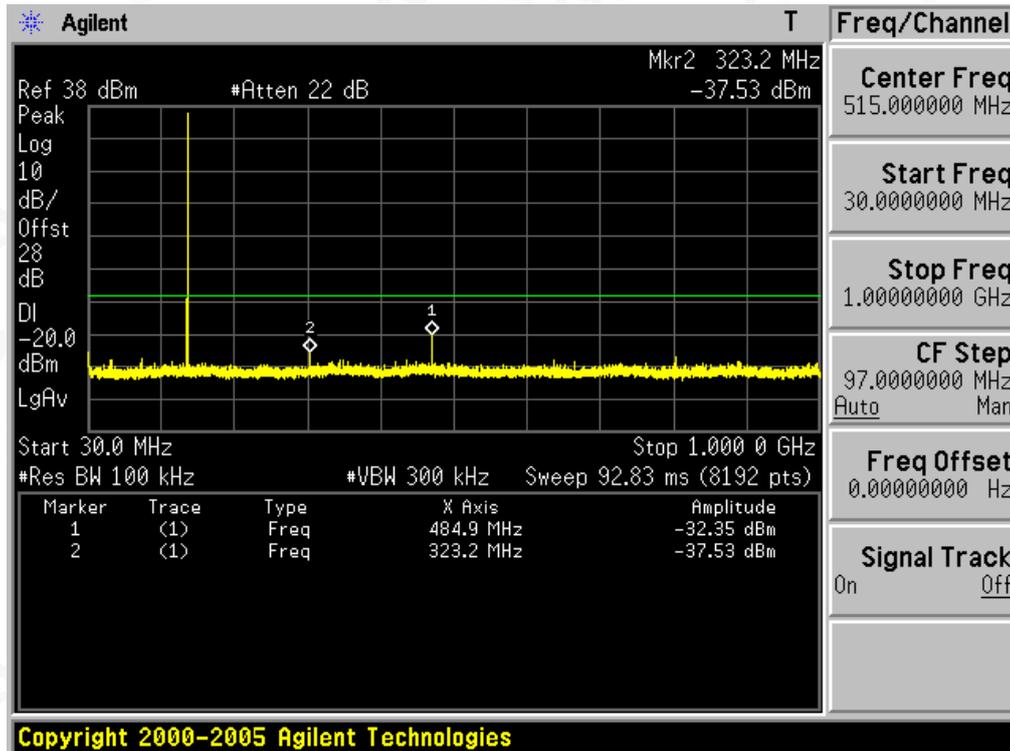
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

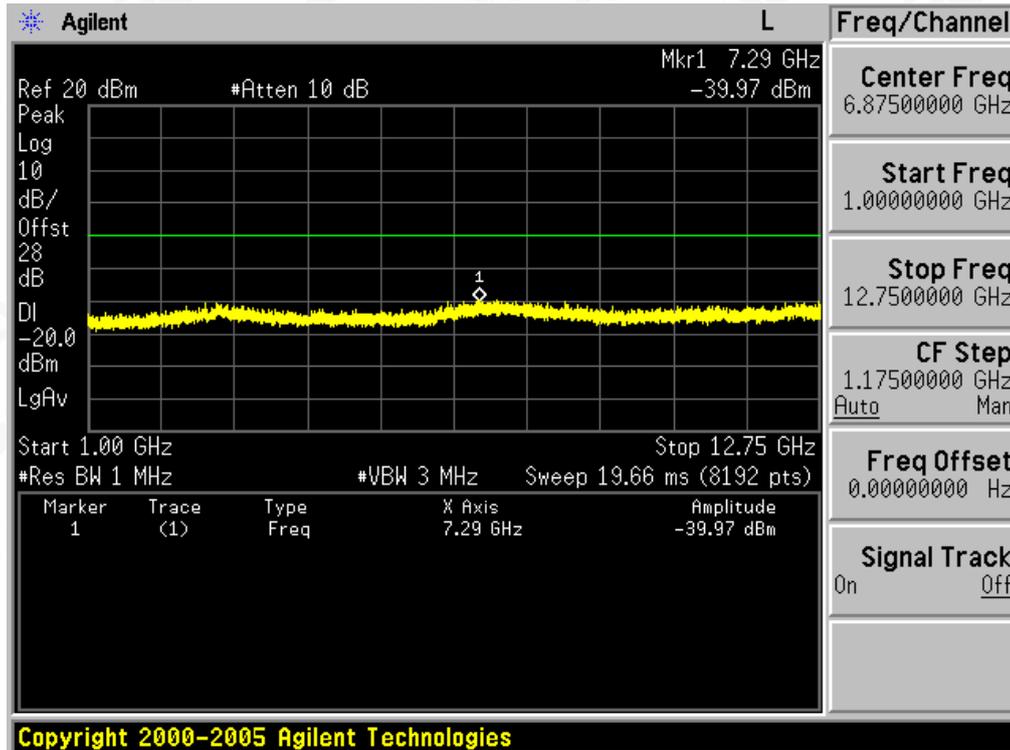
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

Conducted Spurious Emission (worst) @161.610 MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 161.610MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

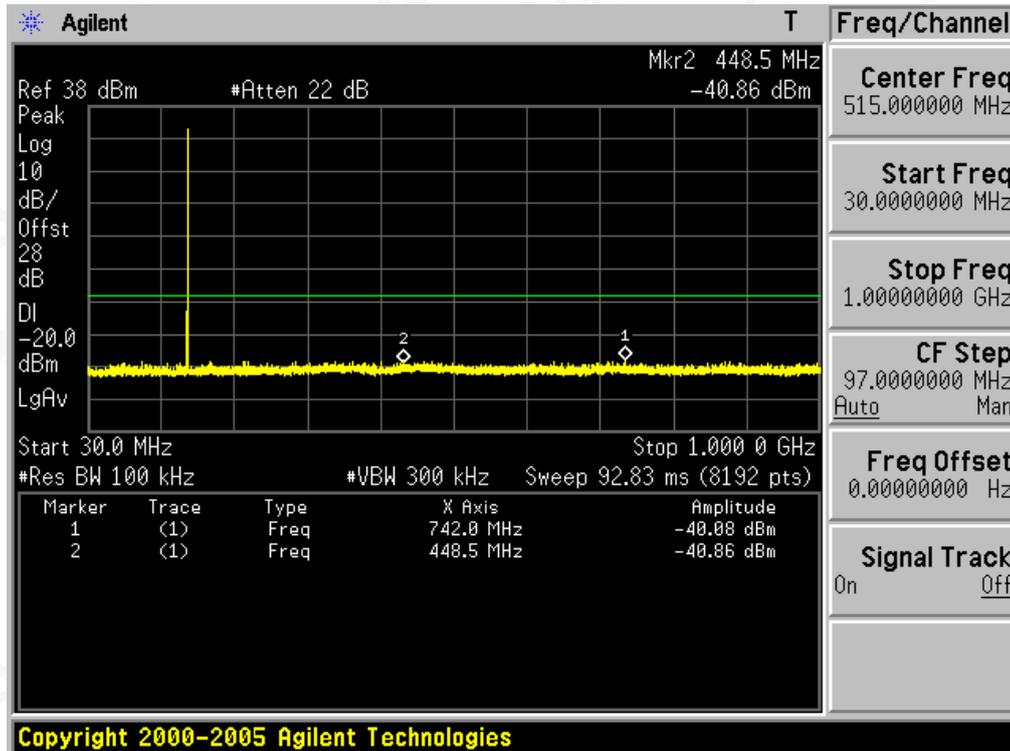
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

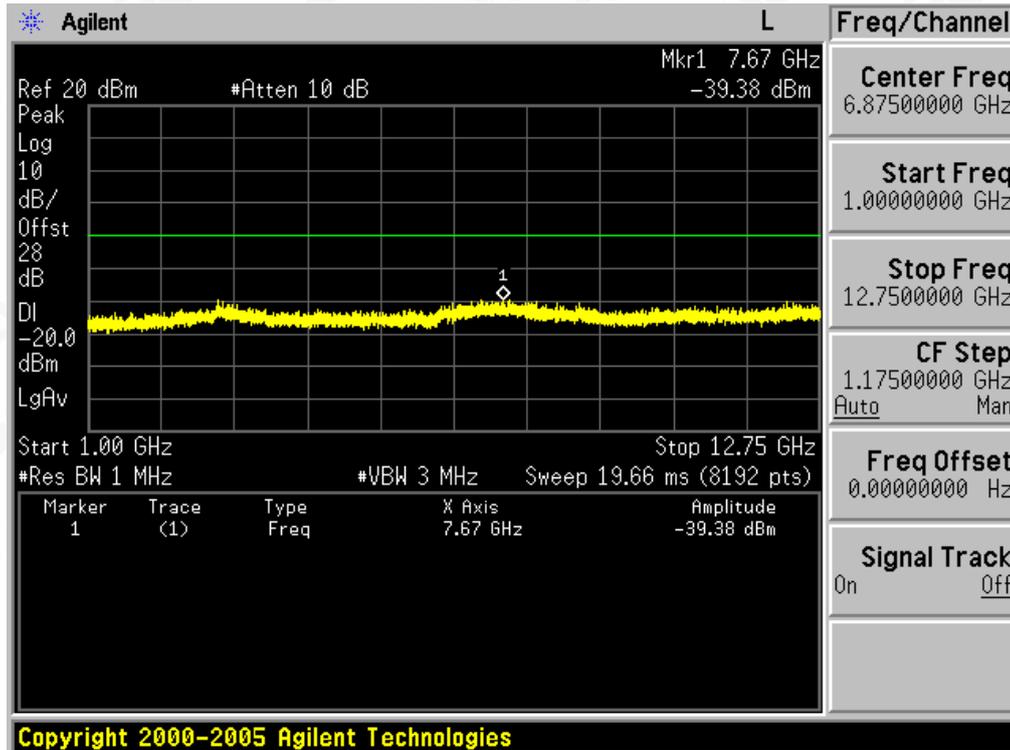
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

Conducted Spurious Emission (worst) @161.610MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 161.610MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

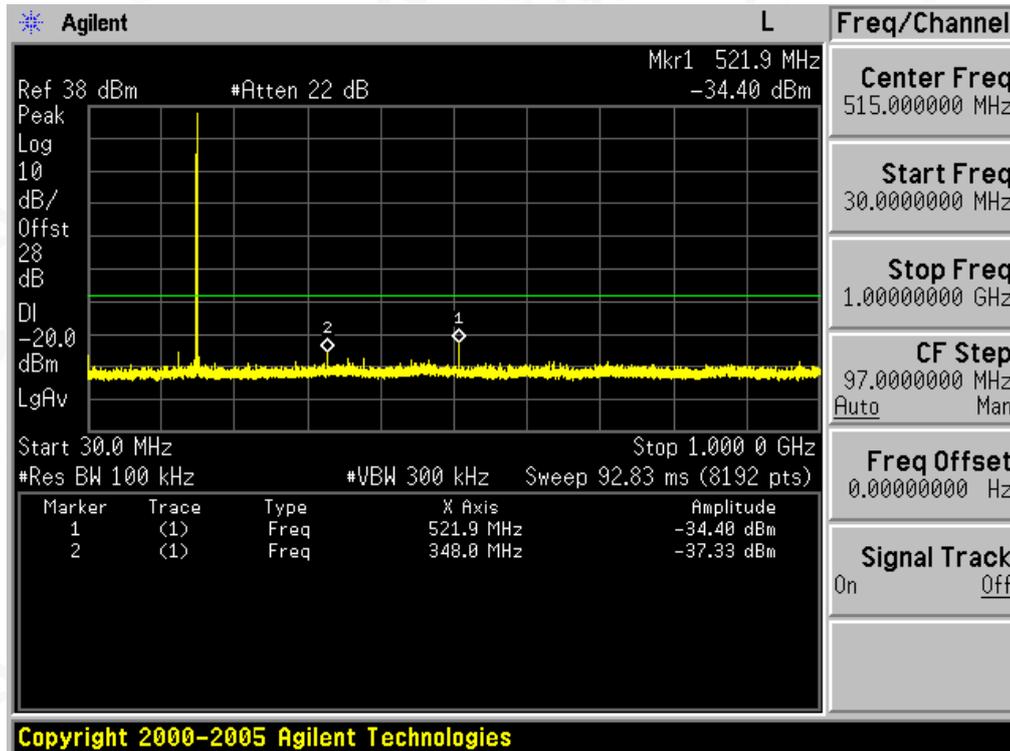
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

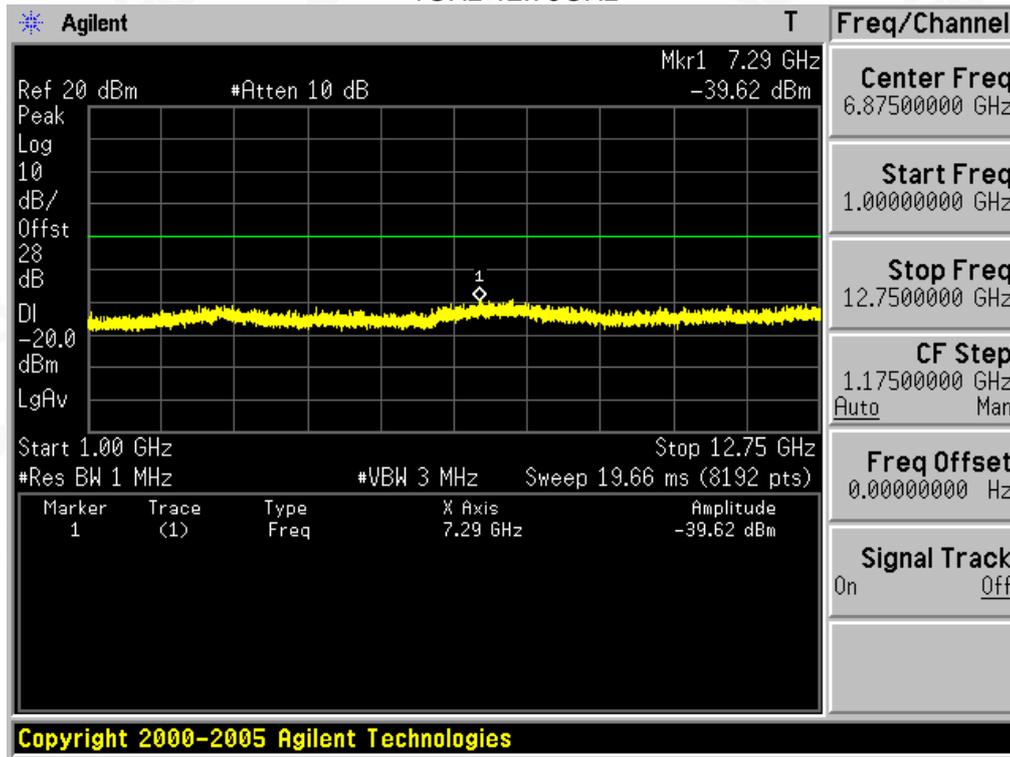
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

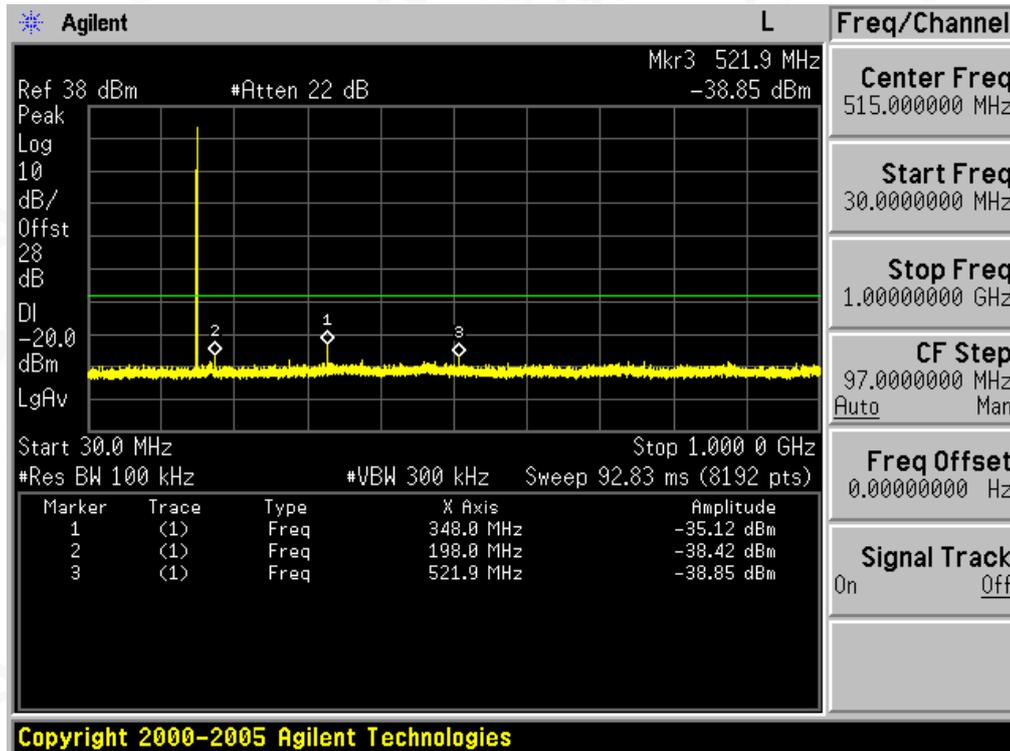
Conducted Spurious Emission (worst) @173.975 MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



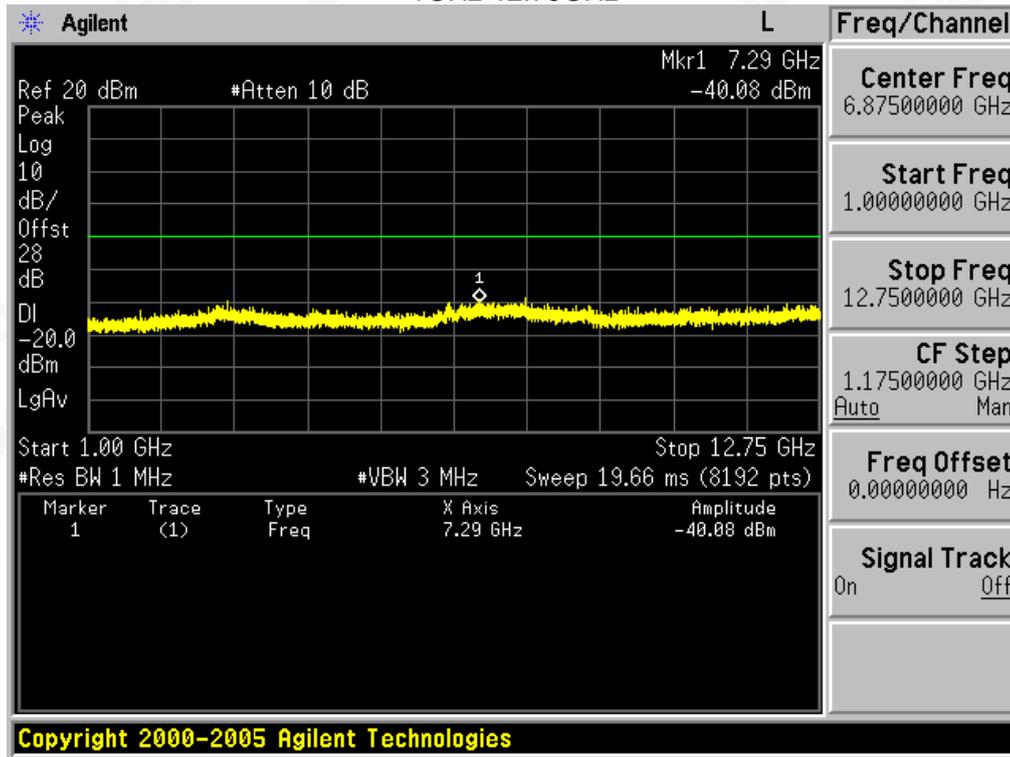
Conduct Spurious Emission (worst) @ 173.975MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Conducted Spurious Emission (worst) @173.975 MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz

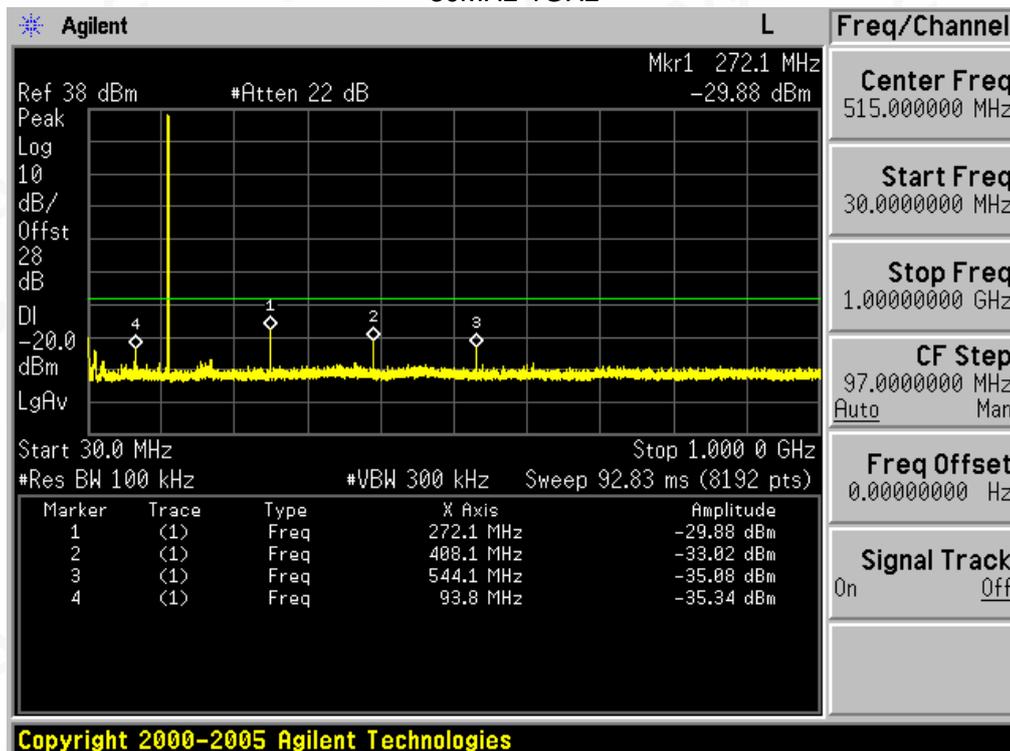


Conduct Spurious Emission (worst) @ 173.975MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

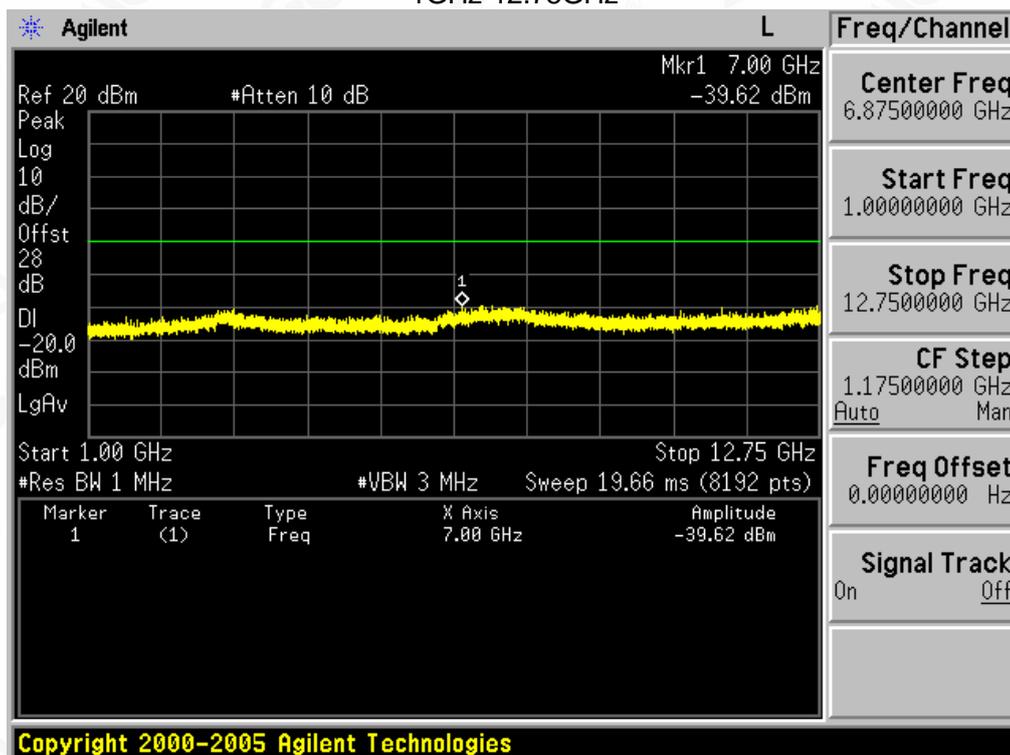


Digital:

Conducted Spurious Emission (worst) @136.025MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 136.025MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

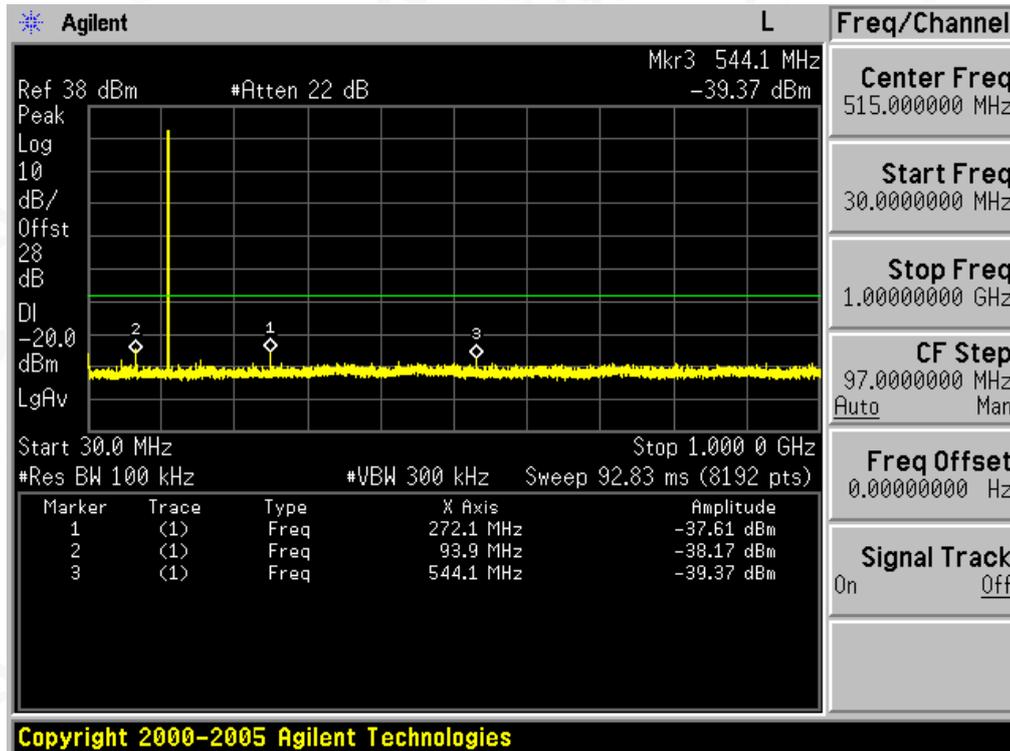
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

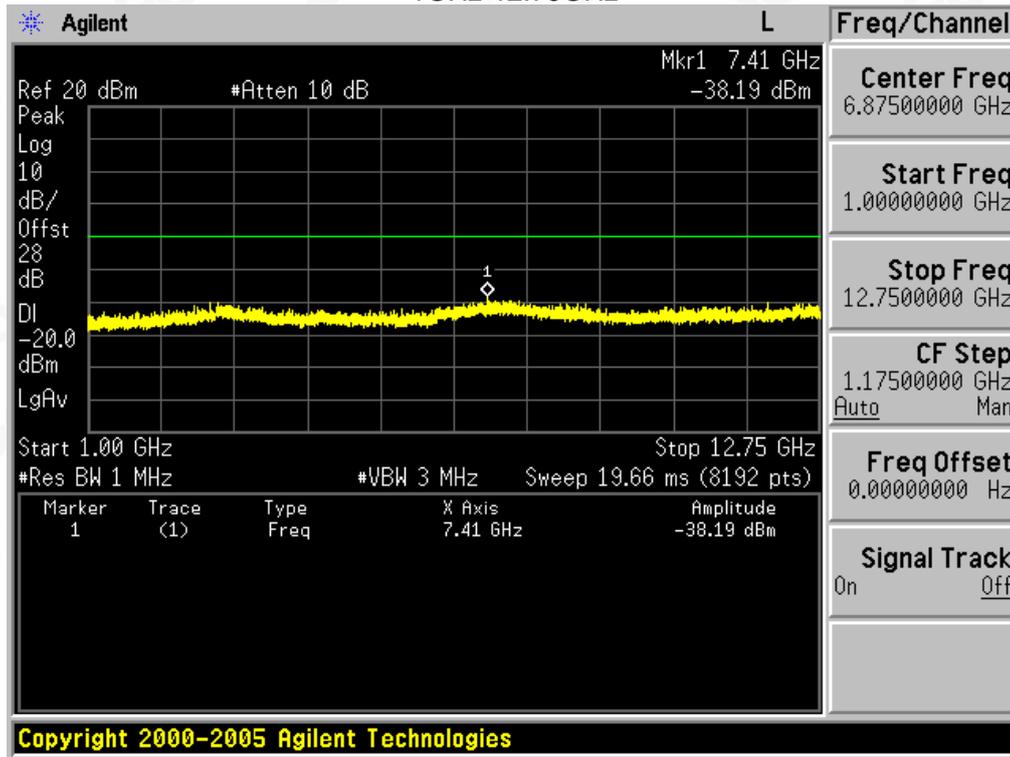
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

Conducted Spurious Emission (worst) @136.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 136.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

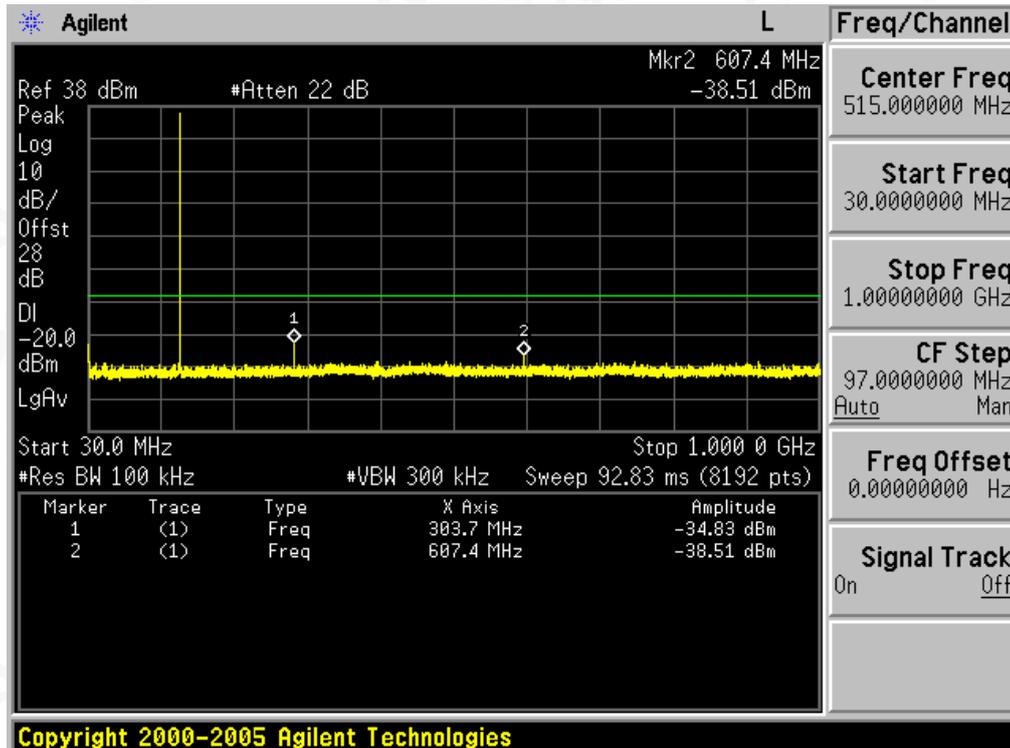
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

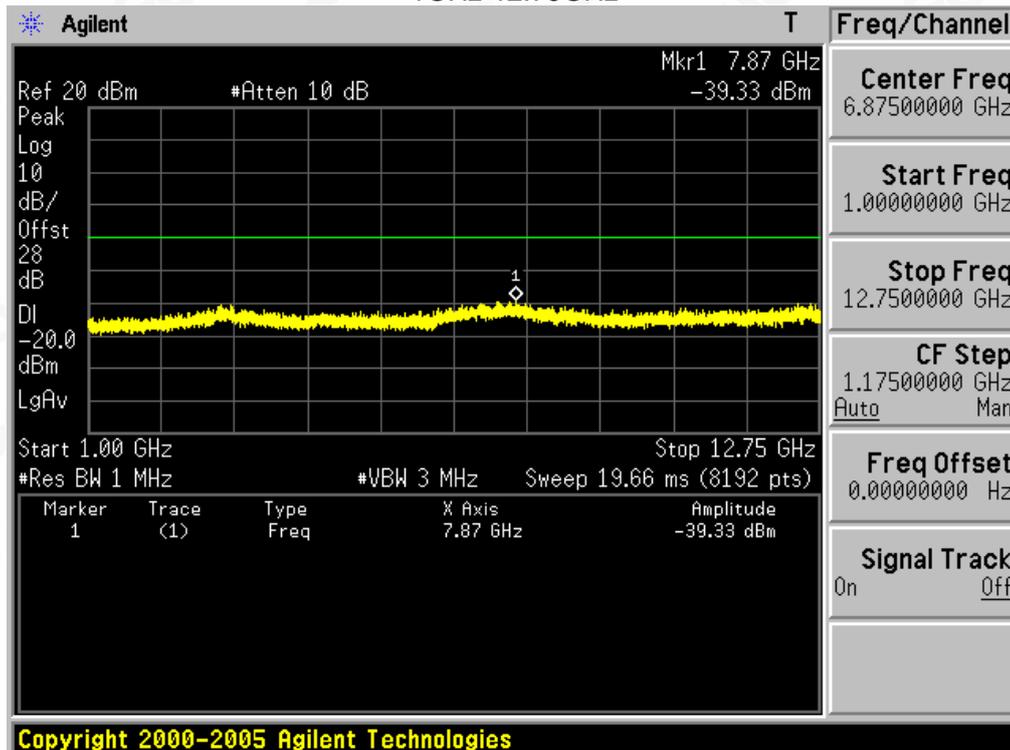
Service Hotline: 400 089 2118

Conducted Spurious Emission (worst) @151.850 MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Copyright 2000-2005 Agilent Technologies

Conduct Spurious Emission (worst) @ 151.850MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Copyright 2000-2005 Agilent Technologies



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

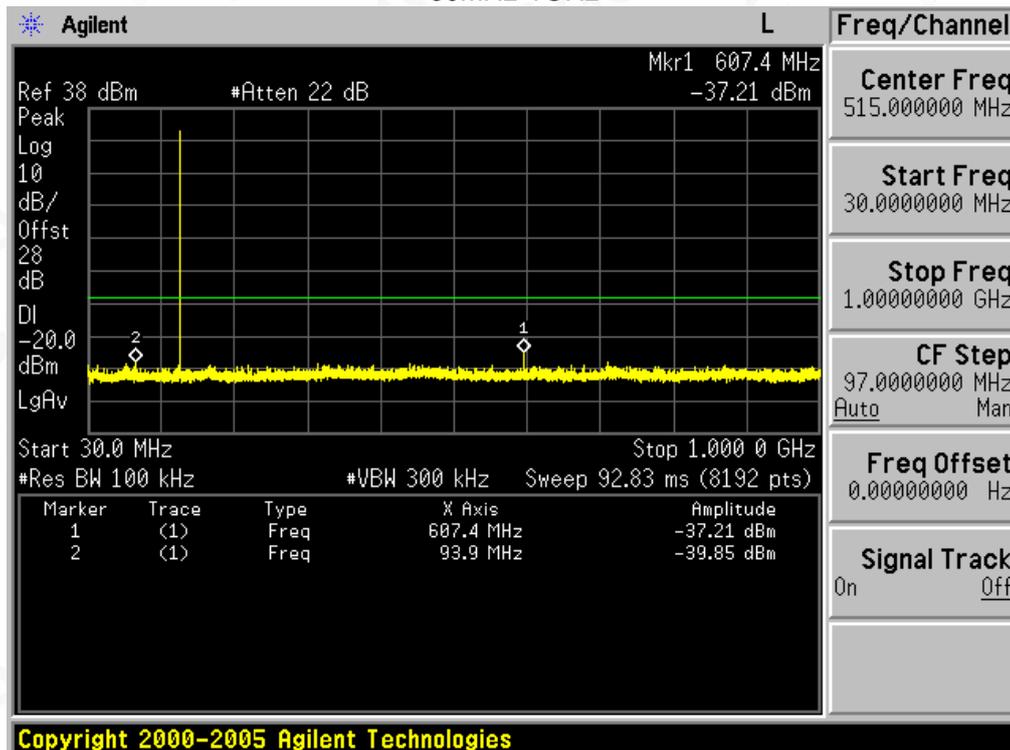
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

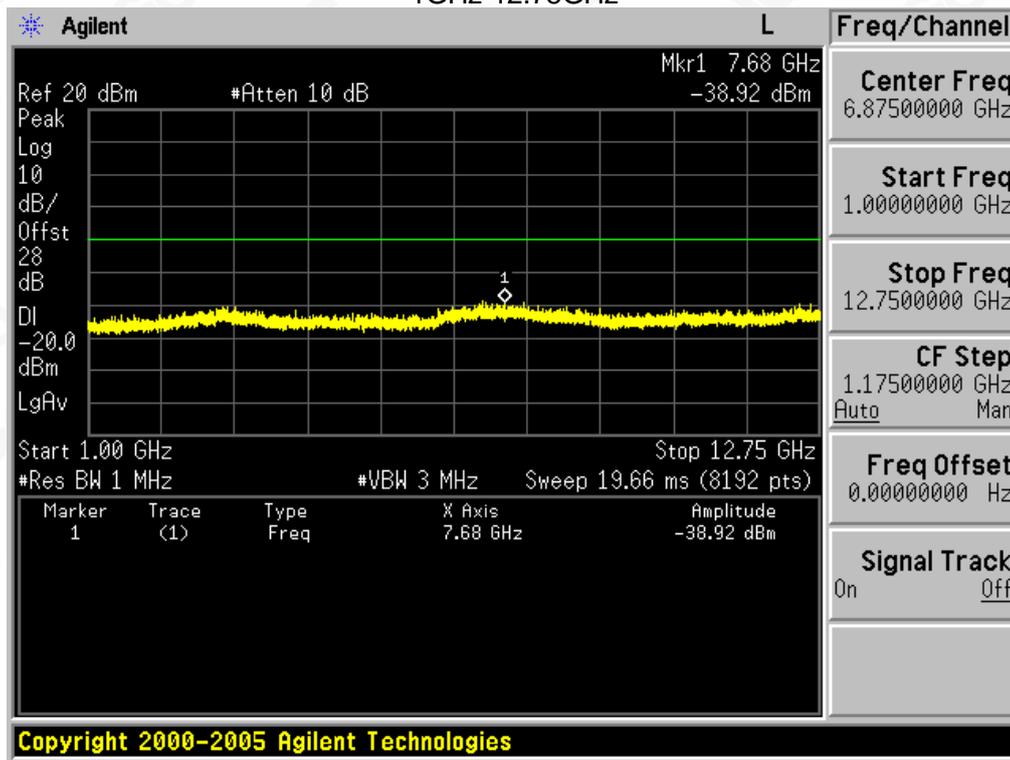
Service Hotline: 400 089 2118

Conducted Spurious Emission (worst) @151.850 MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Copyright 2000-2005 Agilent Technologies

Conduct Spurious Emission (worst) @ 151.850MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



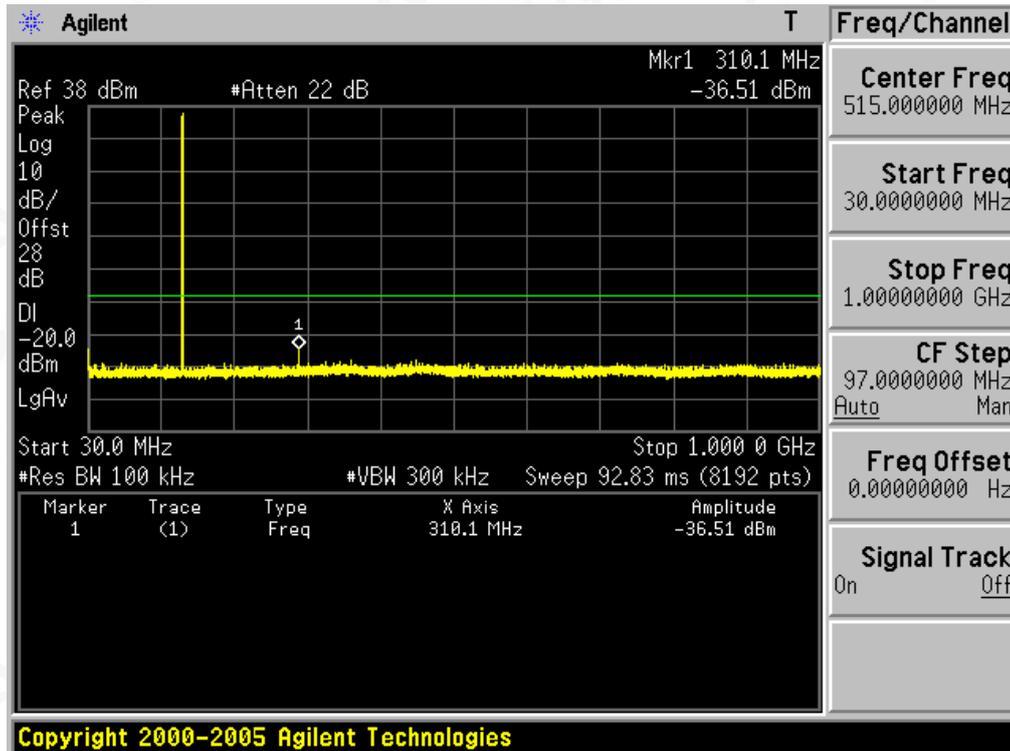
Copyright 2000-2005 Agilent Technologies



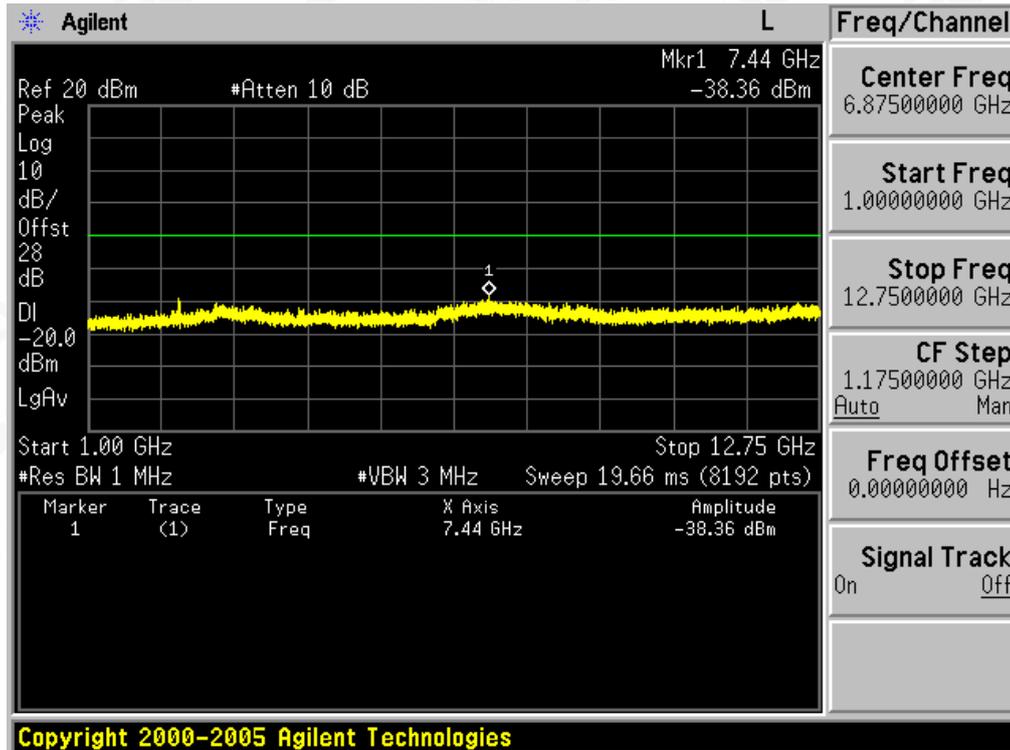
Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

Conducted Spurious Emission (worst) @155.025 MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



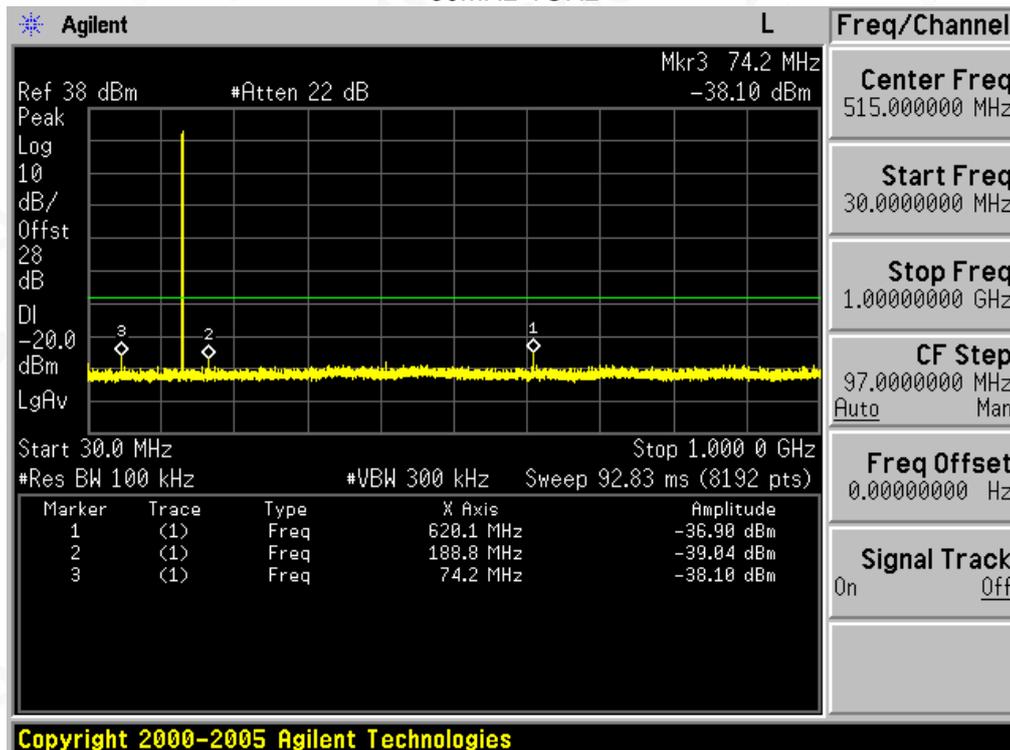
Conduct Spurious Emission (worst) @ 155.025 MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



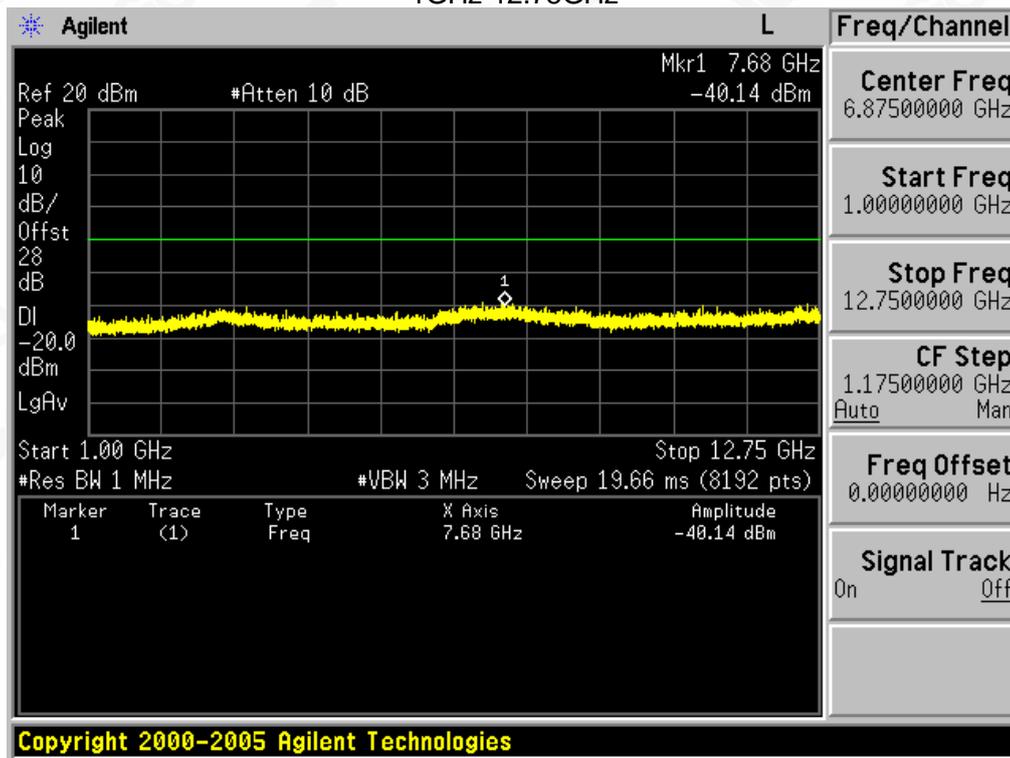
Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

Conducted Spurious Emission (worst) @155.025 MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



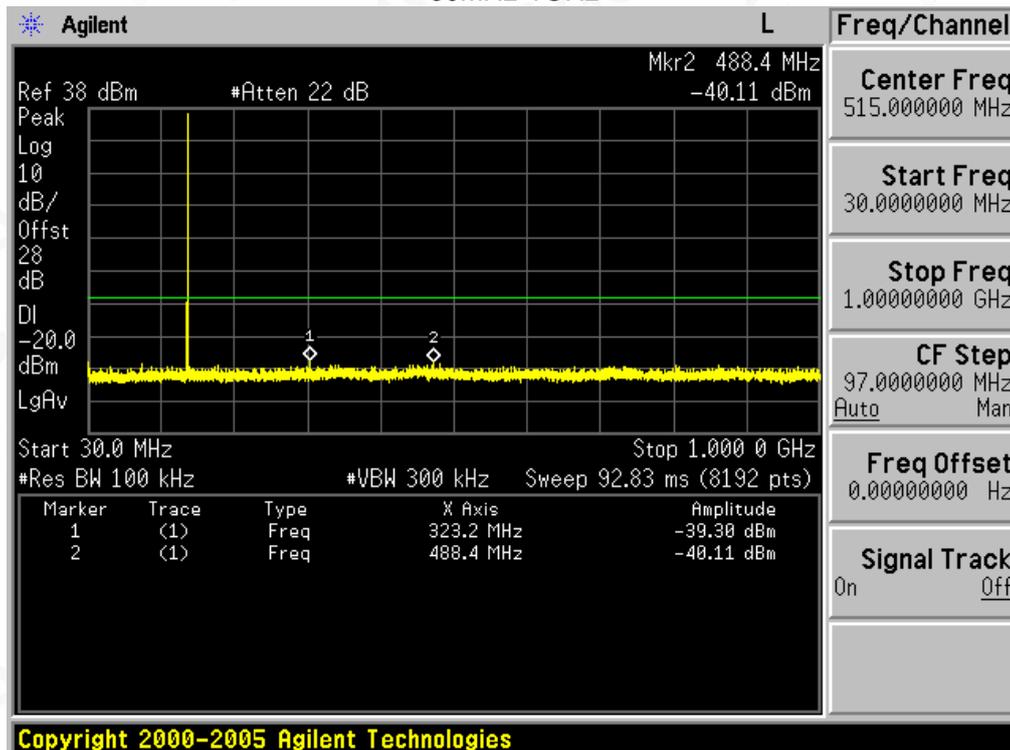
Conduct Spurious Emission (worst) @155.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Attestation of Global Compliance

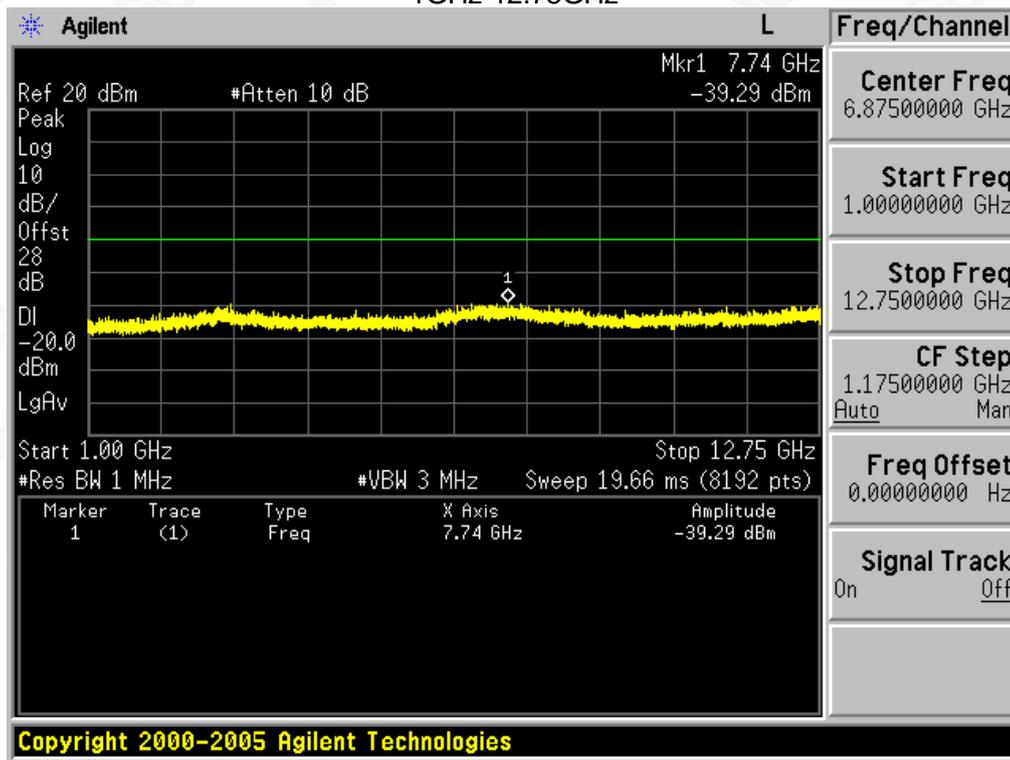
Attestation of Global Compliance(Shenzhen)Co.,Ltd.
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

Conducted Spurious Emission (worst) @161.610 MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Copyright 2000-2005 Agilent Technologies

Conduct Spurious Emission (worst) @ 161.610MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



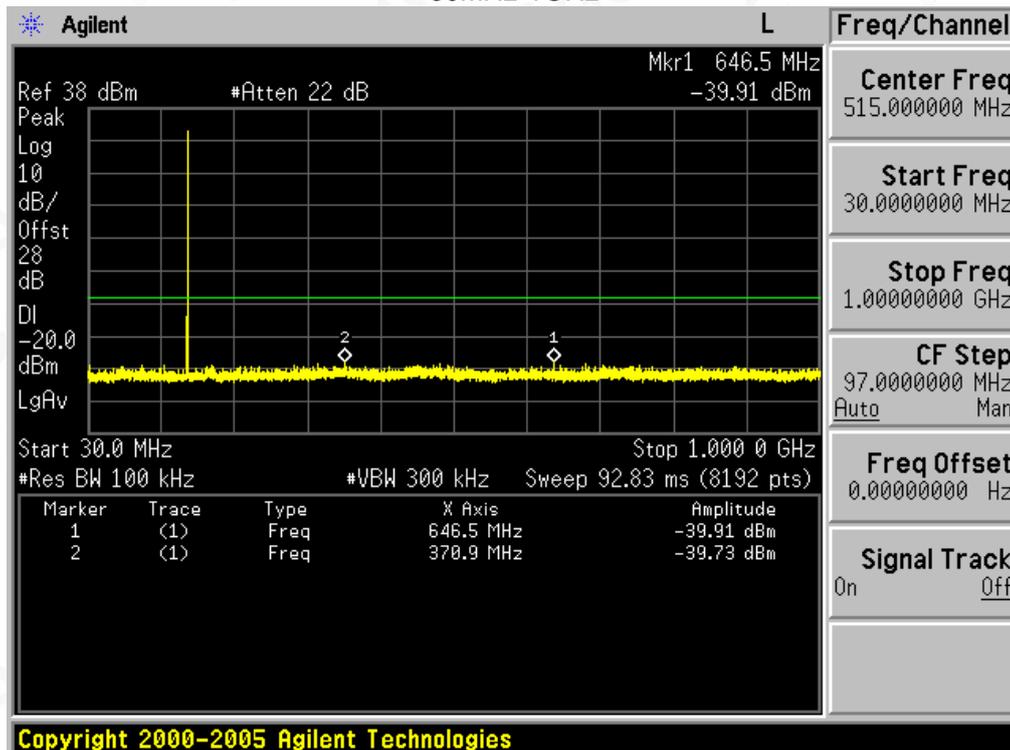
Copyright 2000-2005 Agilent Technologies



Attestation of Global Compliance

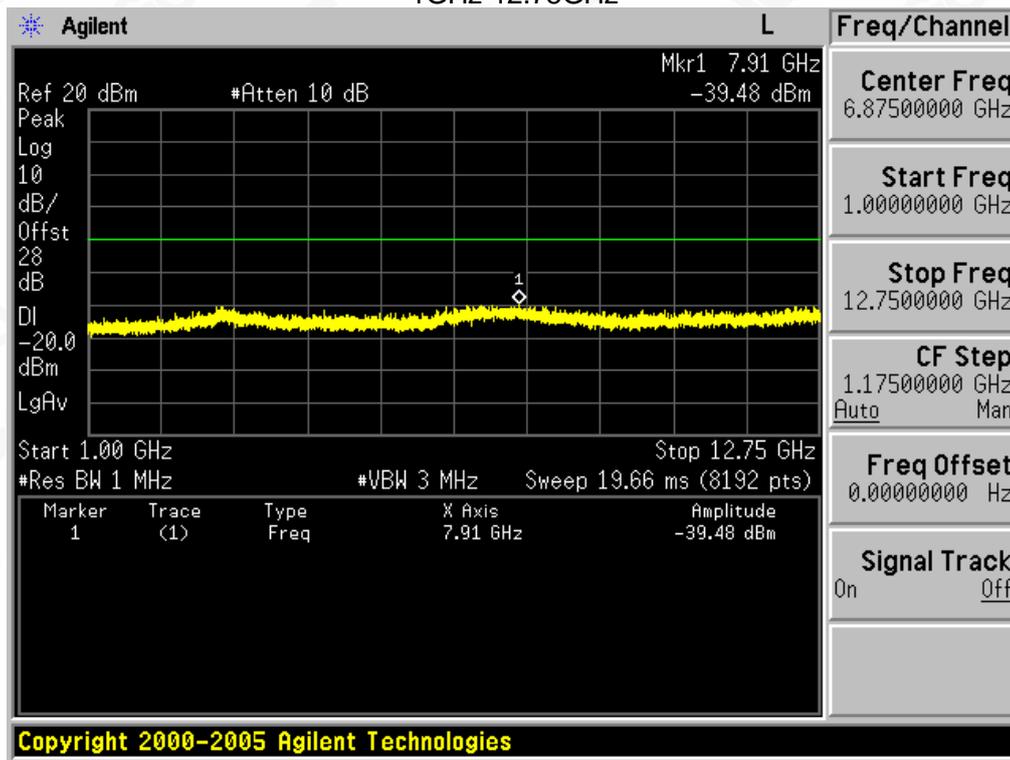
Attestation of Global Compliance(Shenzhen)Co.,Ltd.
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

Conducted Spurious Emission (worst) @161.610 MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Copyright 2000-2005 Agilent Technologies

Conduct Spurious Emission (worst) @ 161.610MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



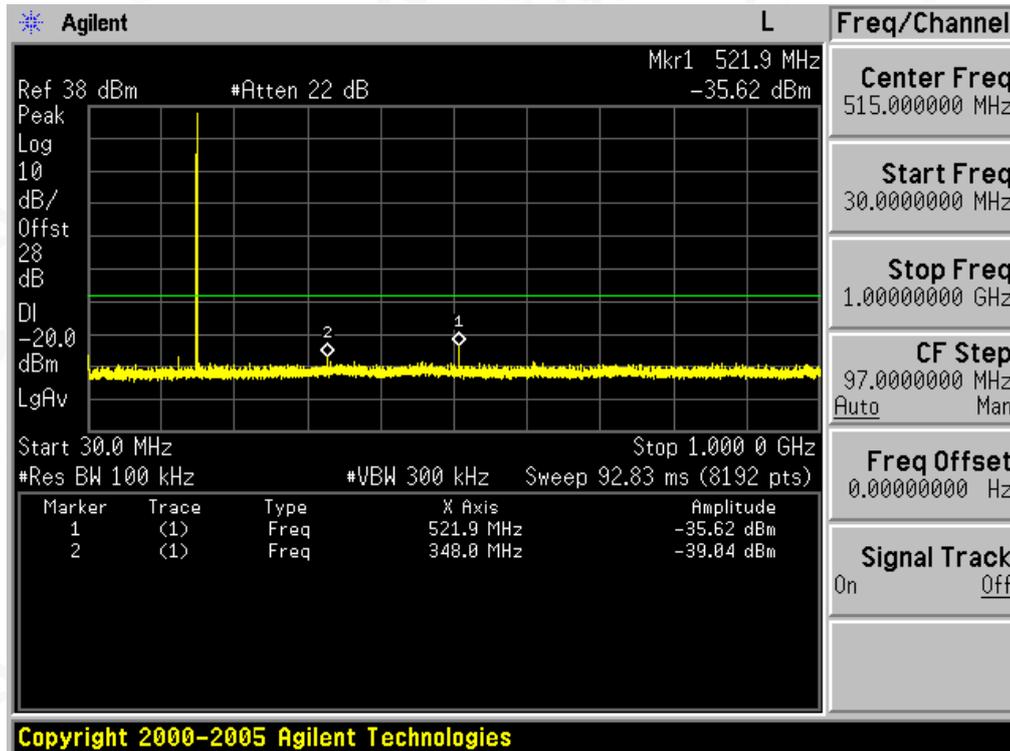
Copyright 2000-2005 Agilent Technologies



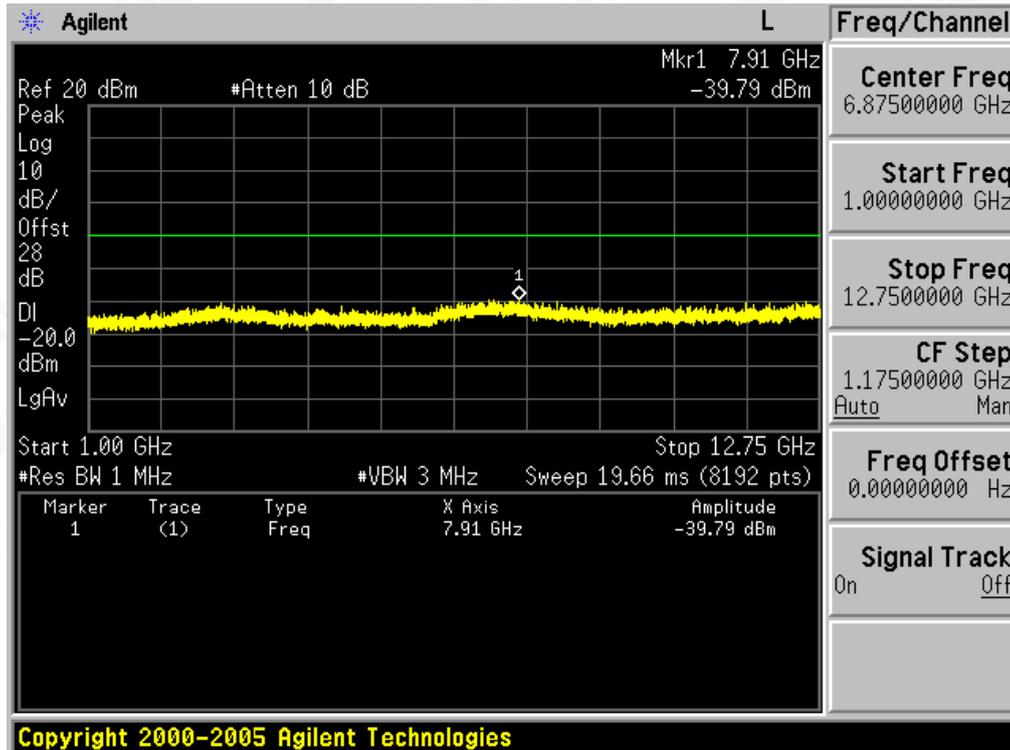
Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

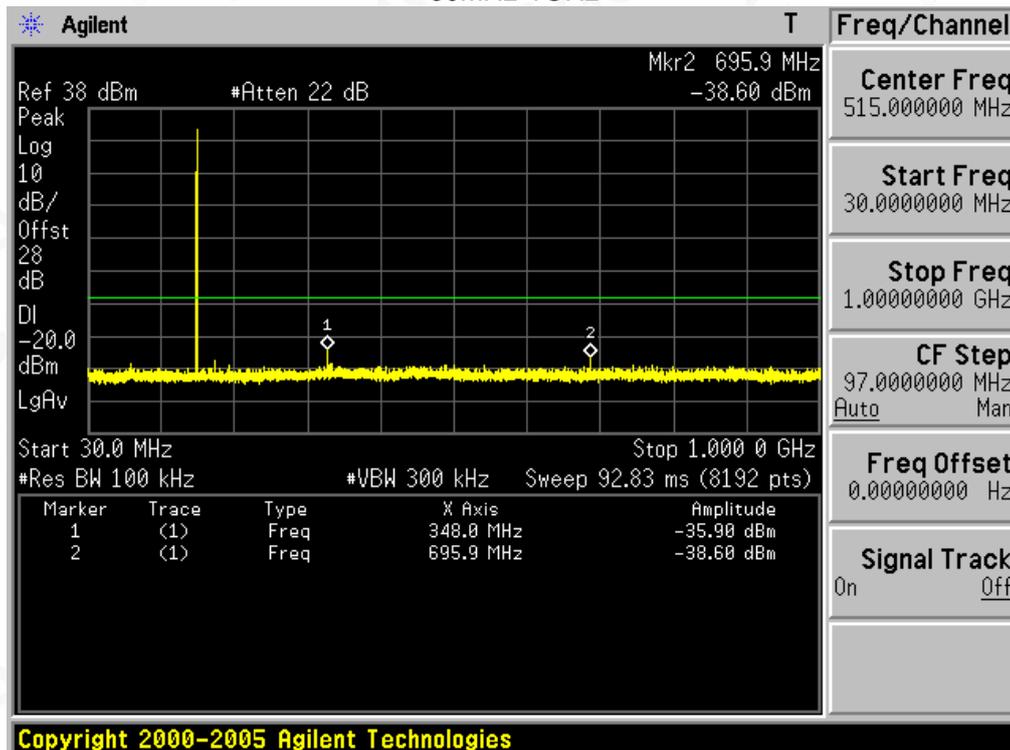
Conducted Spurious Emission (worst) @173.975 MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 173.975MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

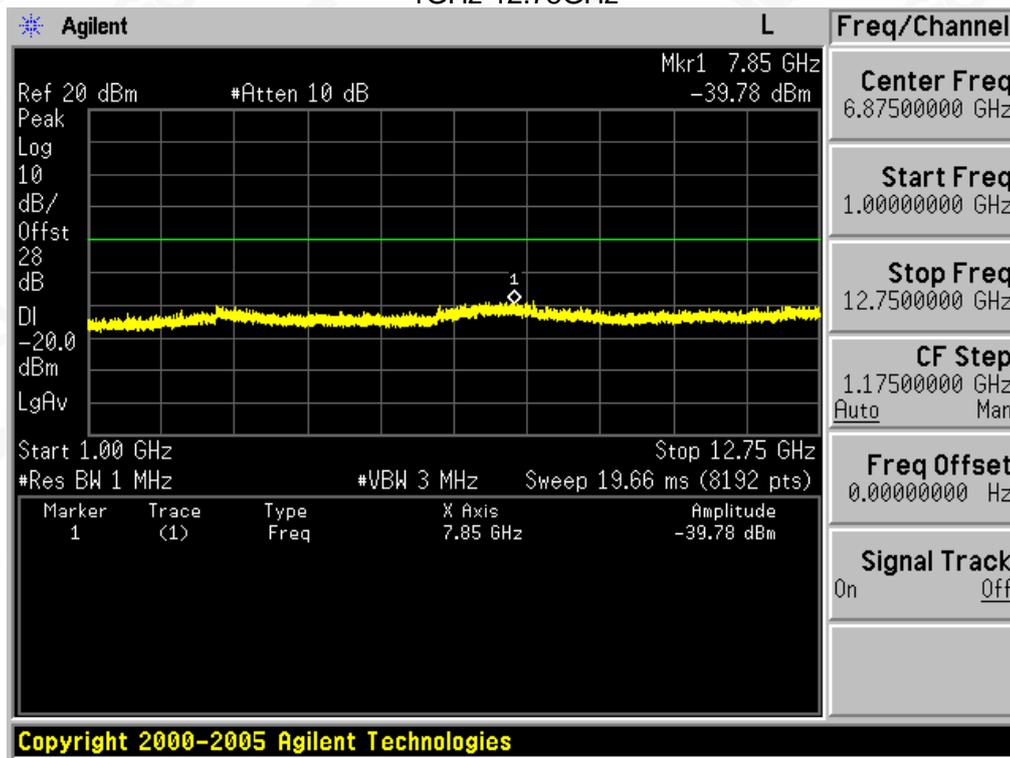


Conducted Spurious Emission (worst) @173.975 MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Copyright 2000-2005 Agilent Technologies

Conduct Spurious Emission (worst) @ 173.975MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Copyright 2000-2005 Agilent Technologies

Note: only result the worst case in this part.



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

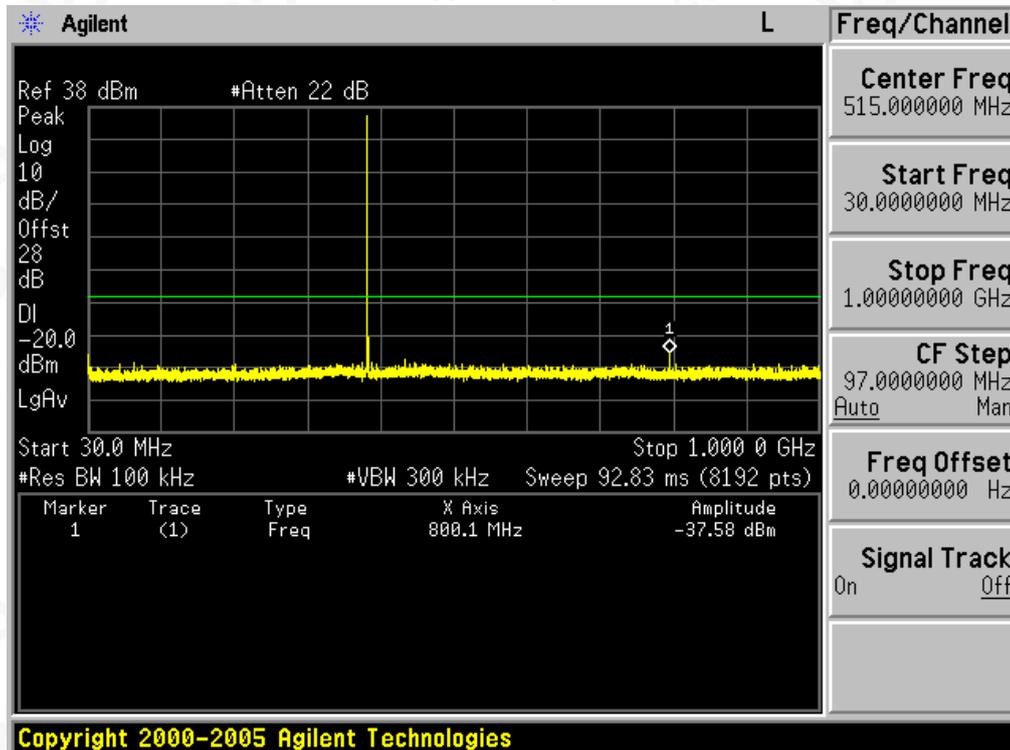
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

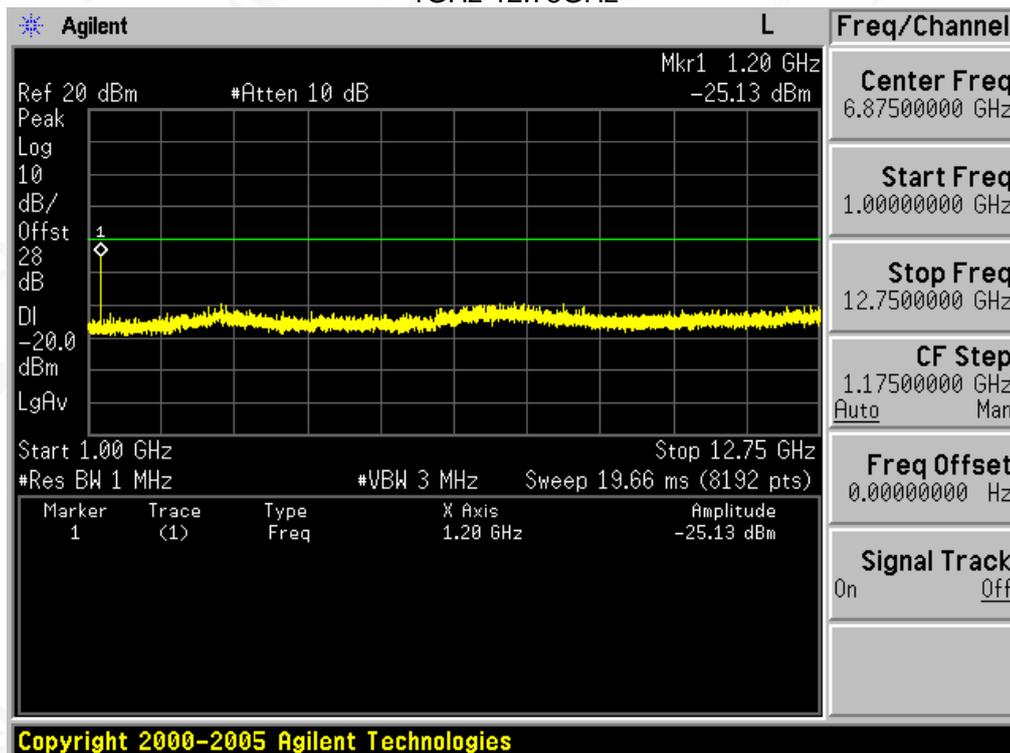
Service Hotline: 400 089 2118

UHF:
Analog:

Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

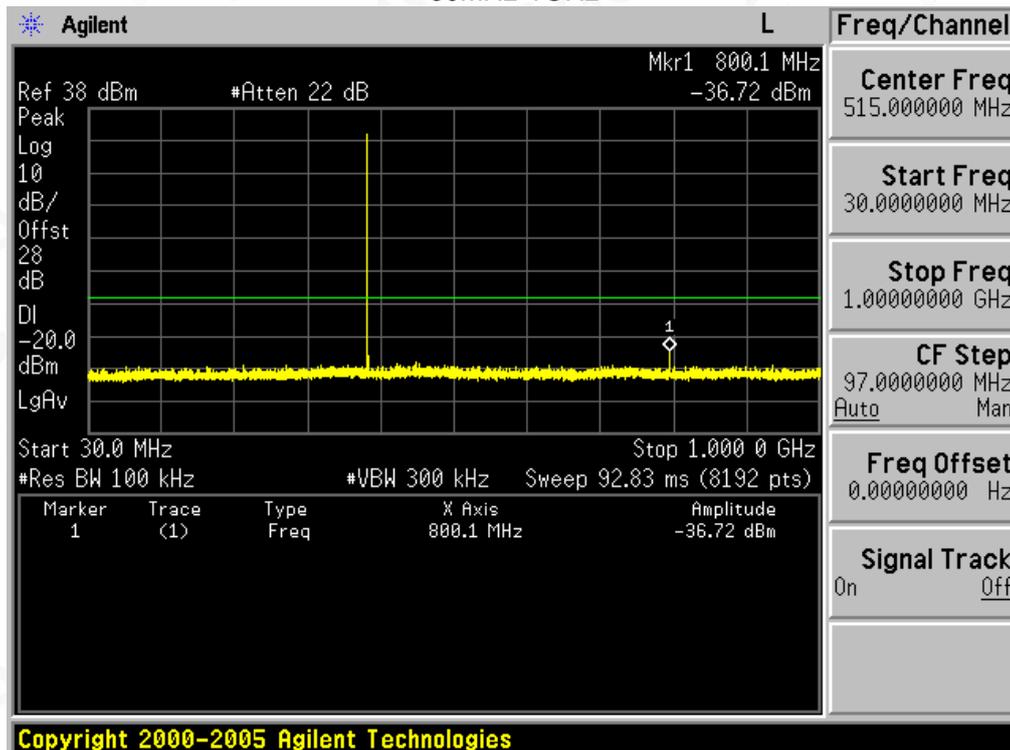
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

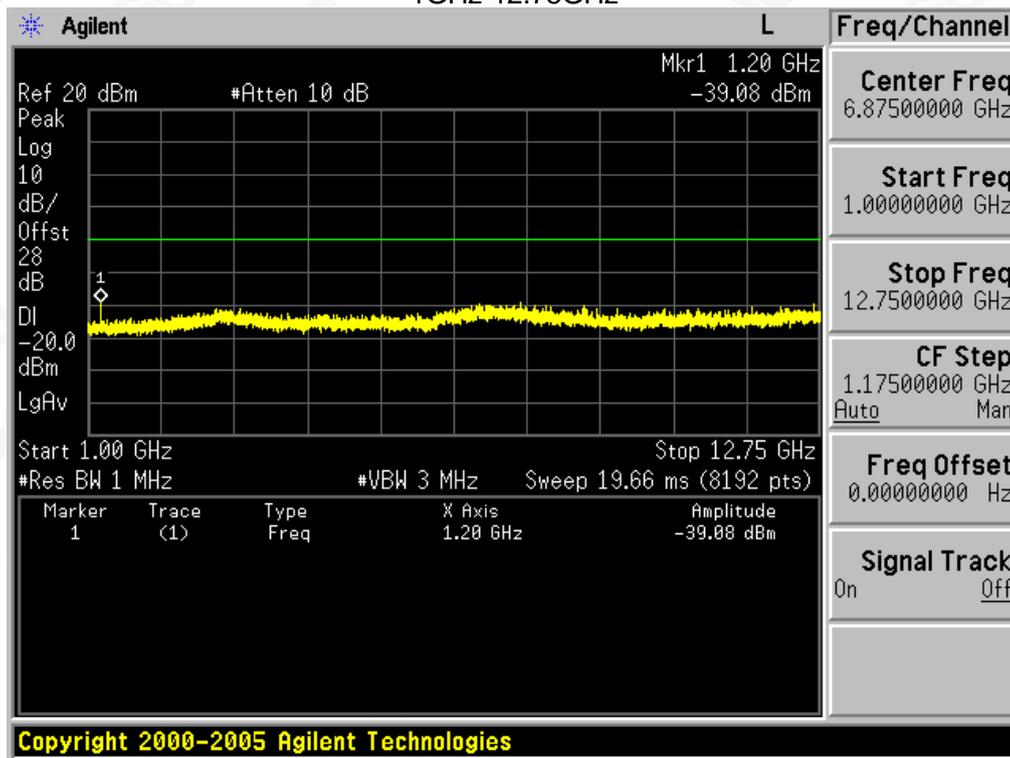
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

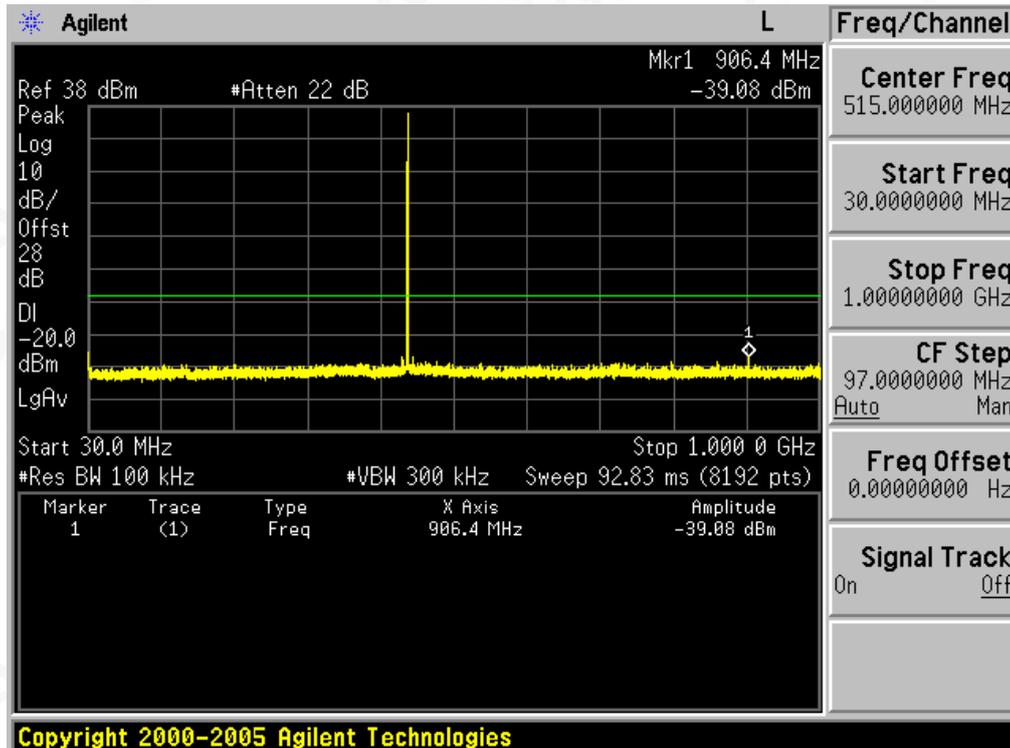
Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



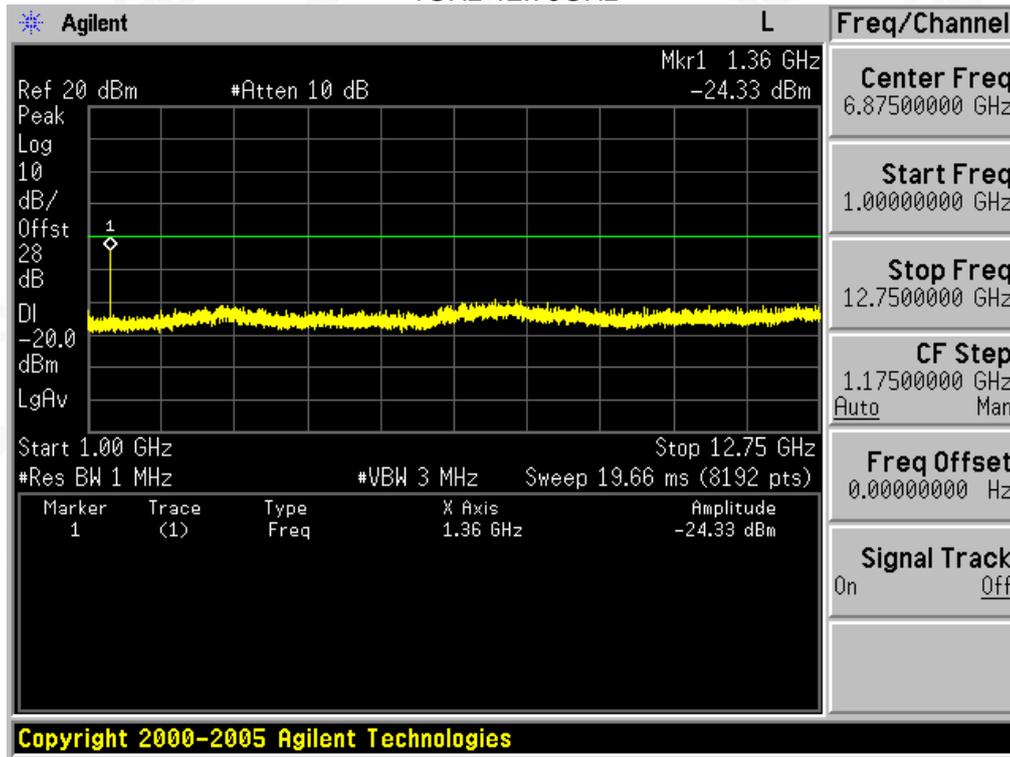
Conduct Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



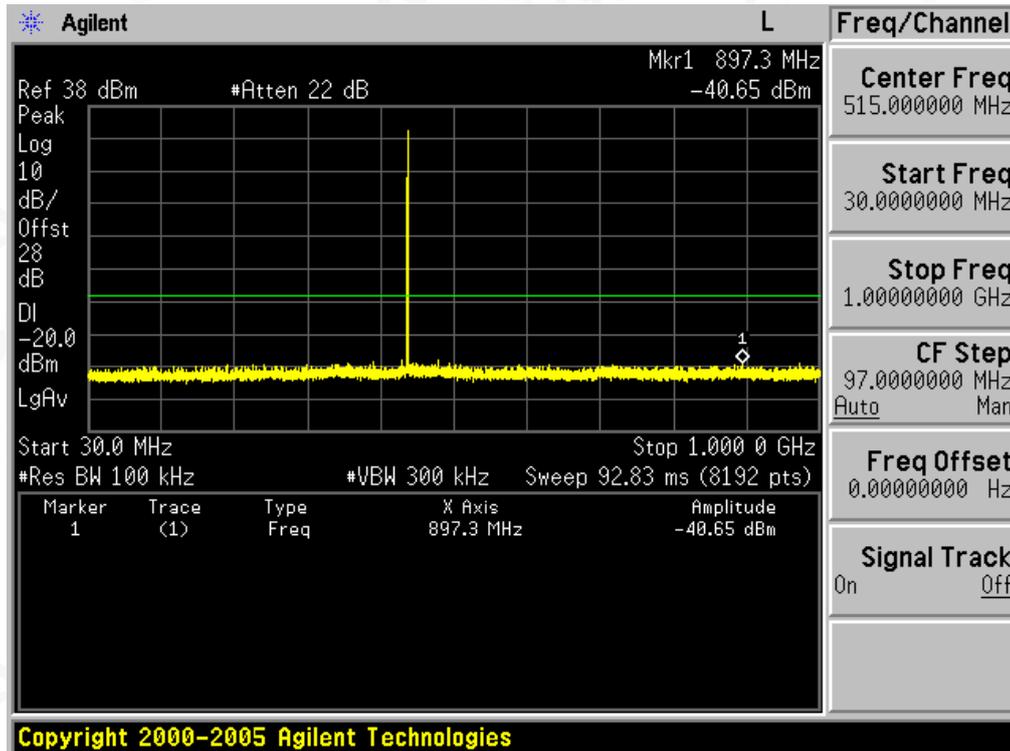
Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



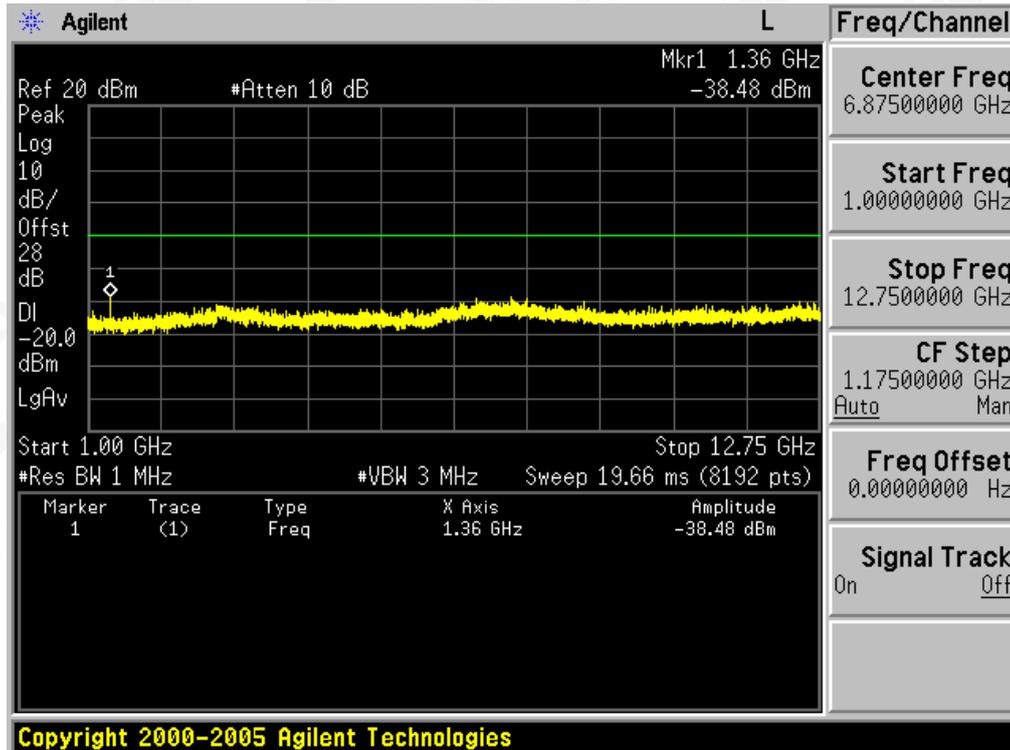
Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

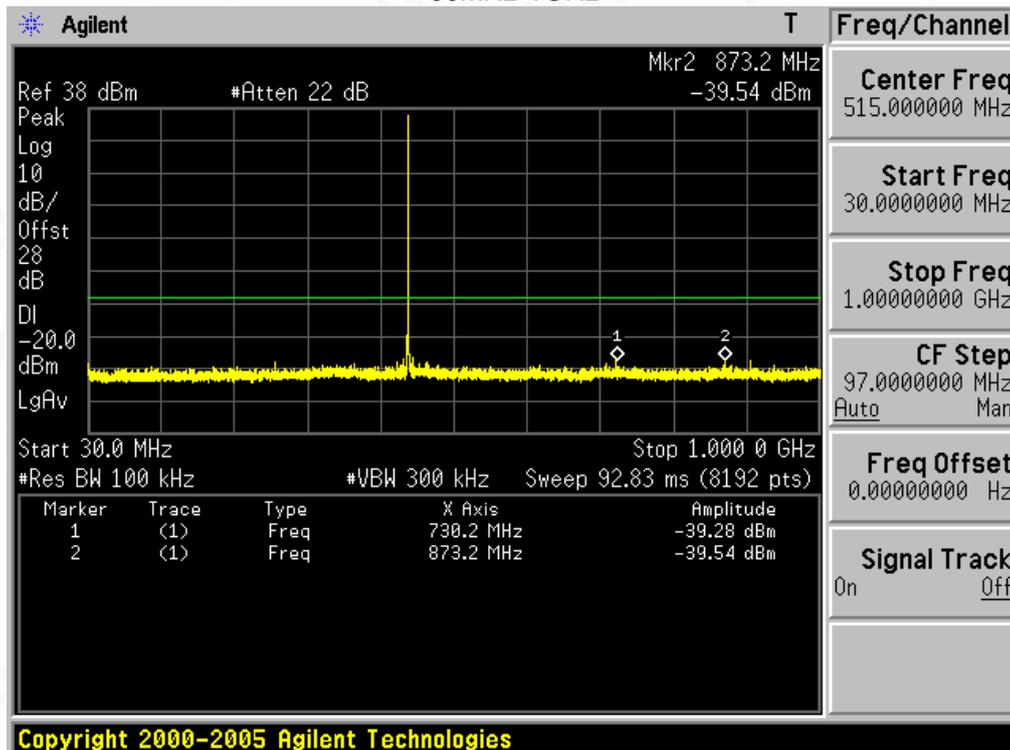
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

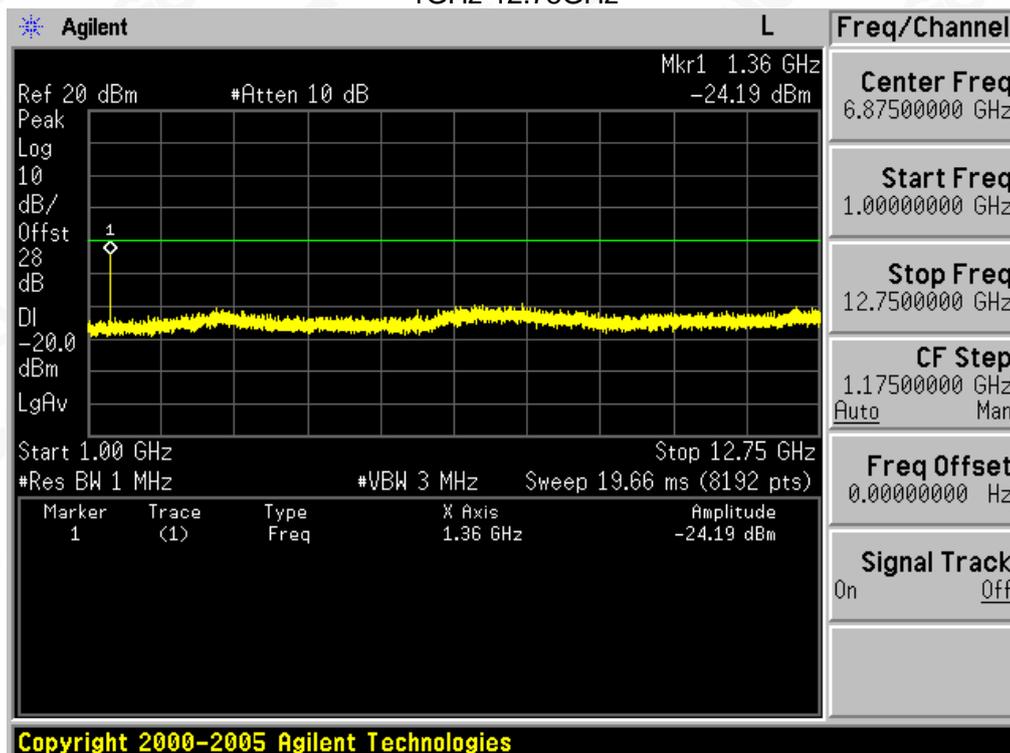
Service Hotline: 400 089 2118

Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Copyright 2000-2005 Agilent Technologies

Conduct Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Copyright 2000-2005 Agilent Technologies



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

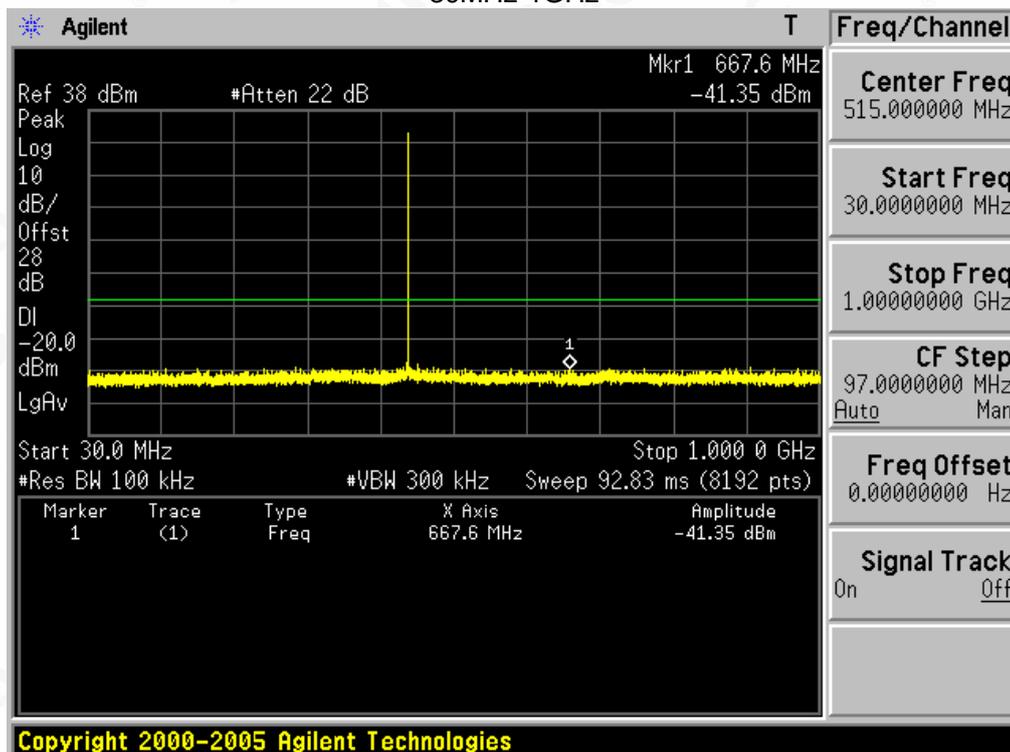
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

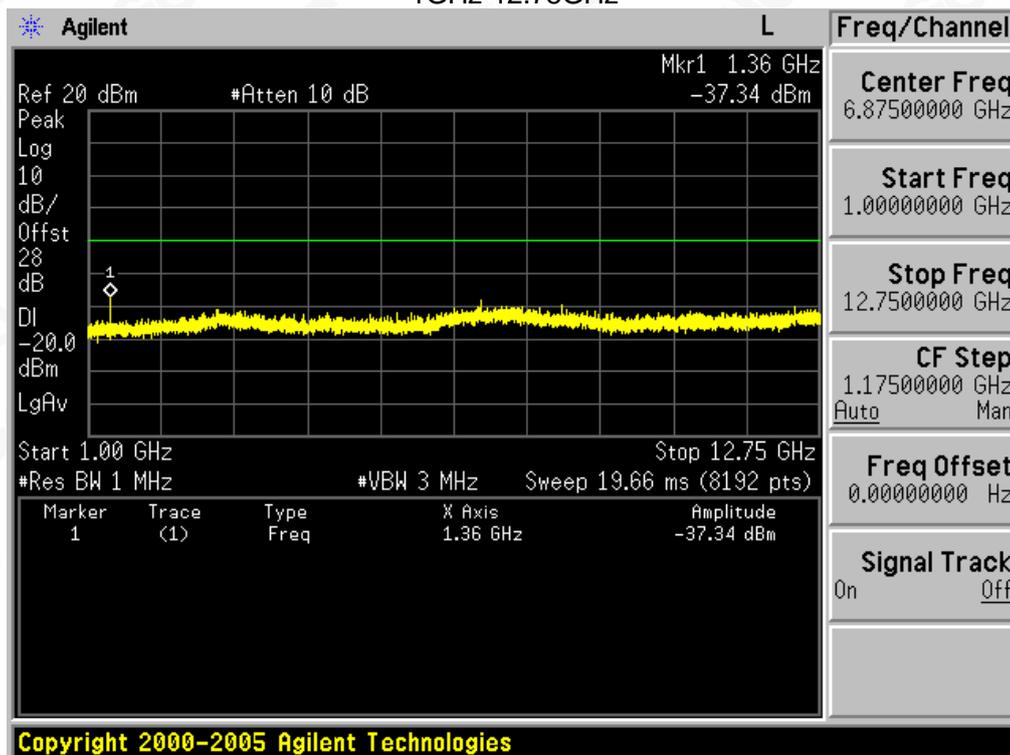
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

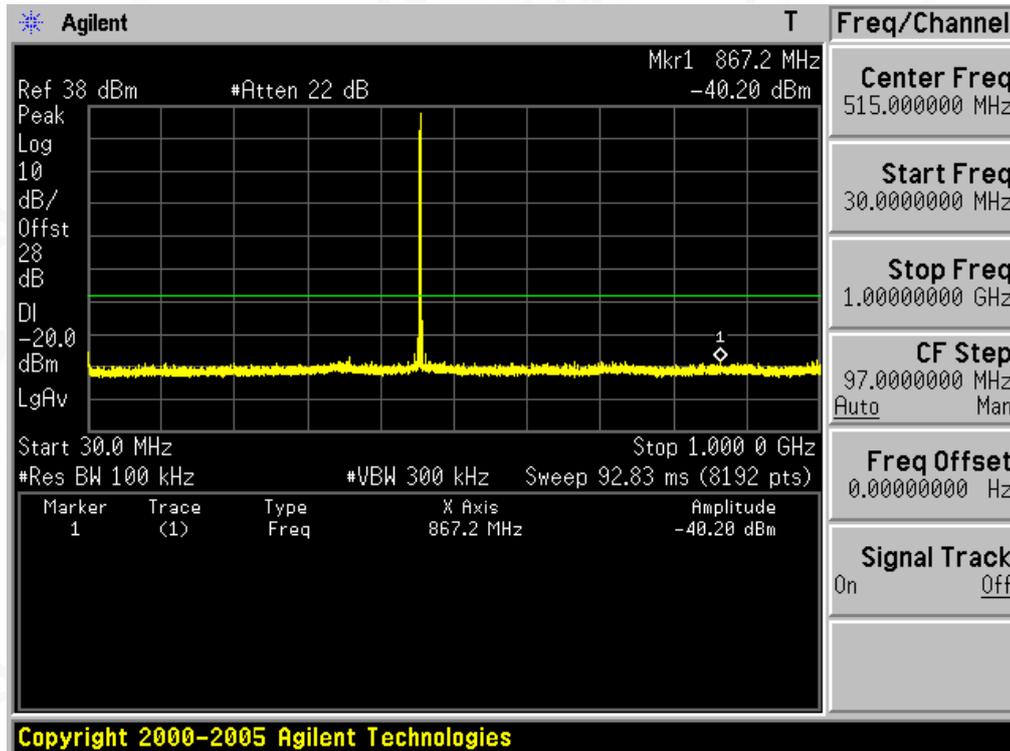
Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



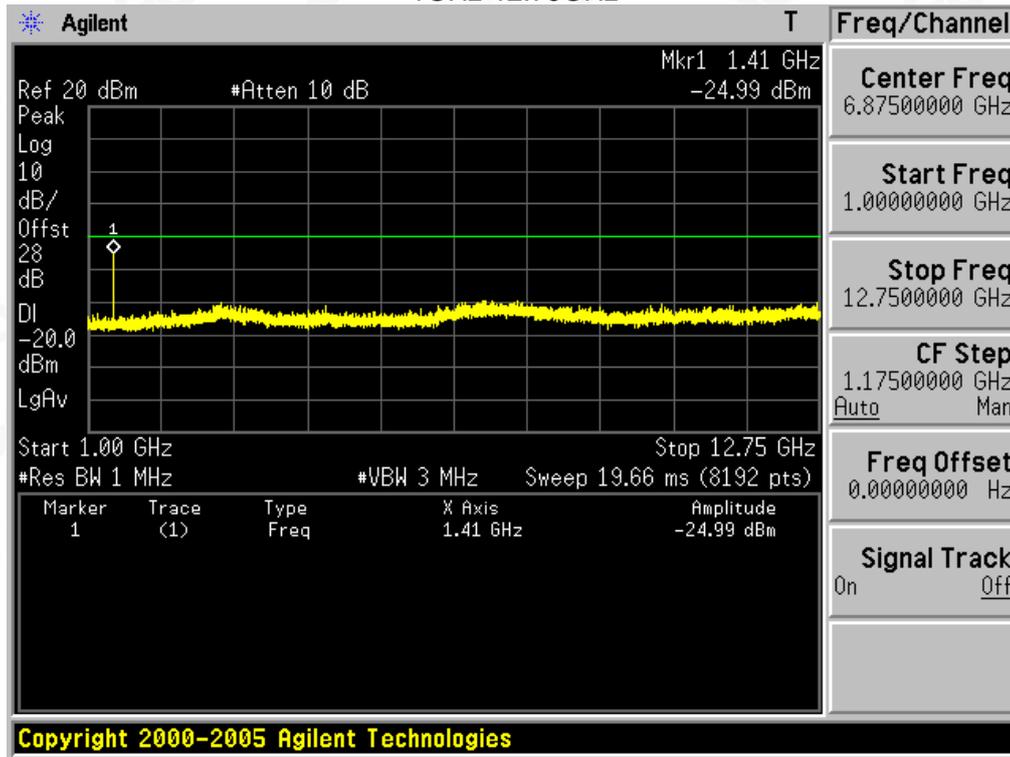
Conduct Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



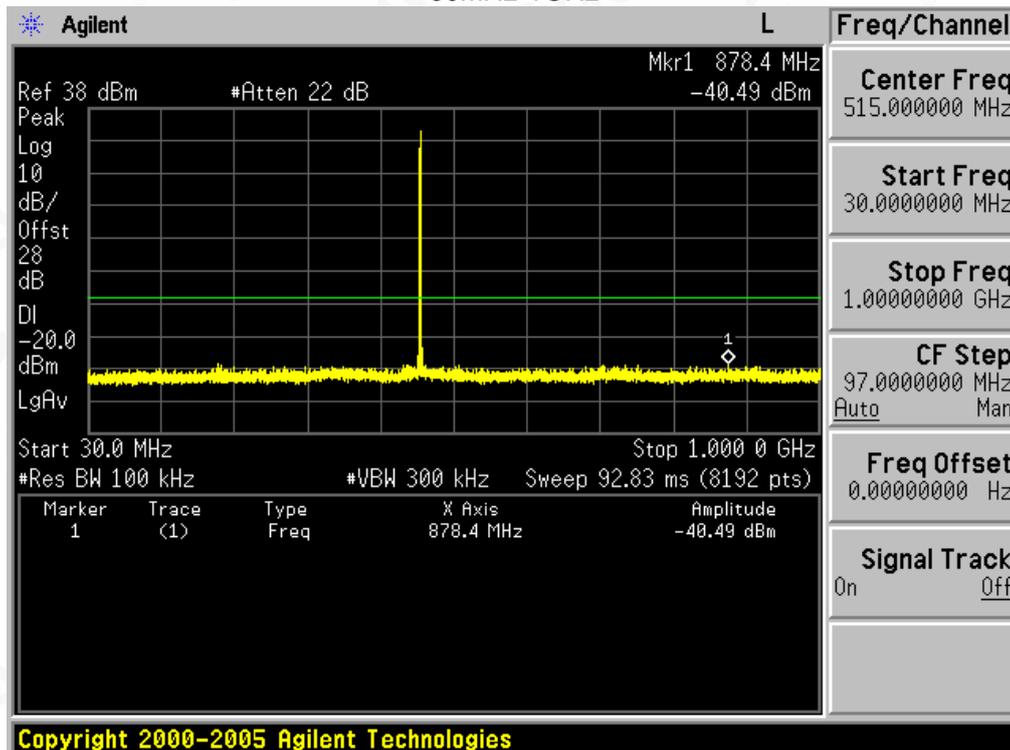
Conducted Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



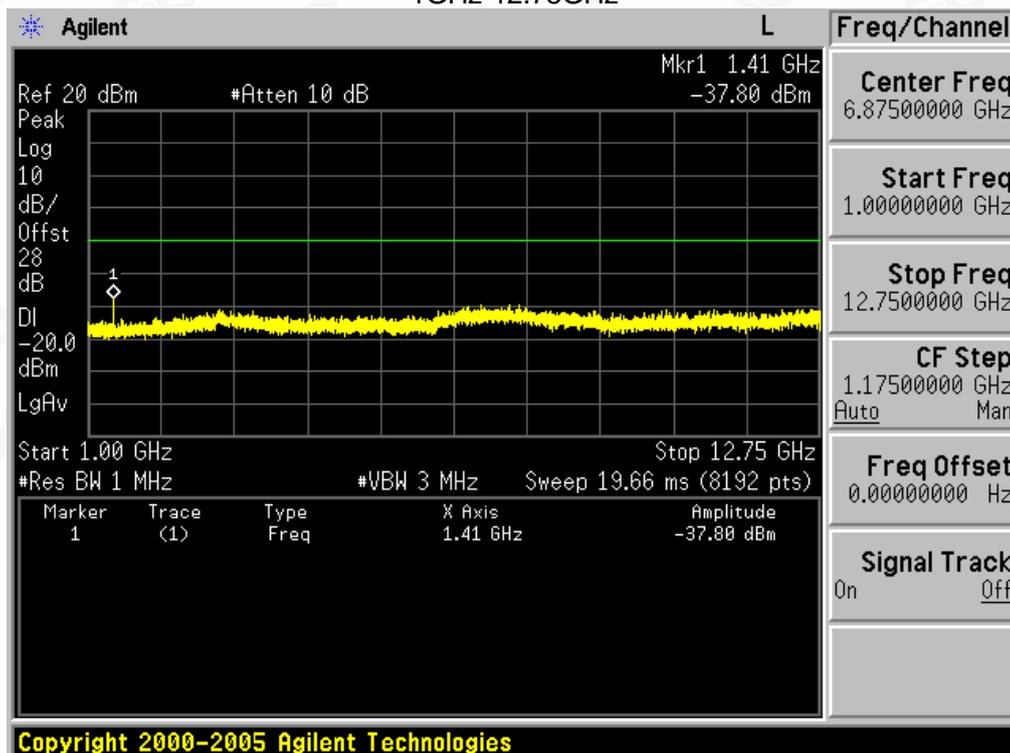
Conduct Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Conducted Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Note: All the test frequencies was tested, but only the worst data be recorded in this part.



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

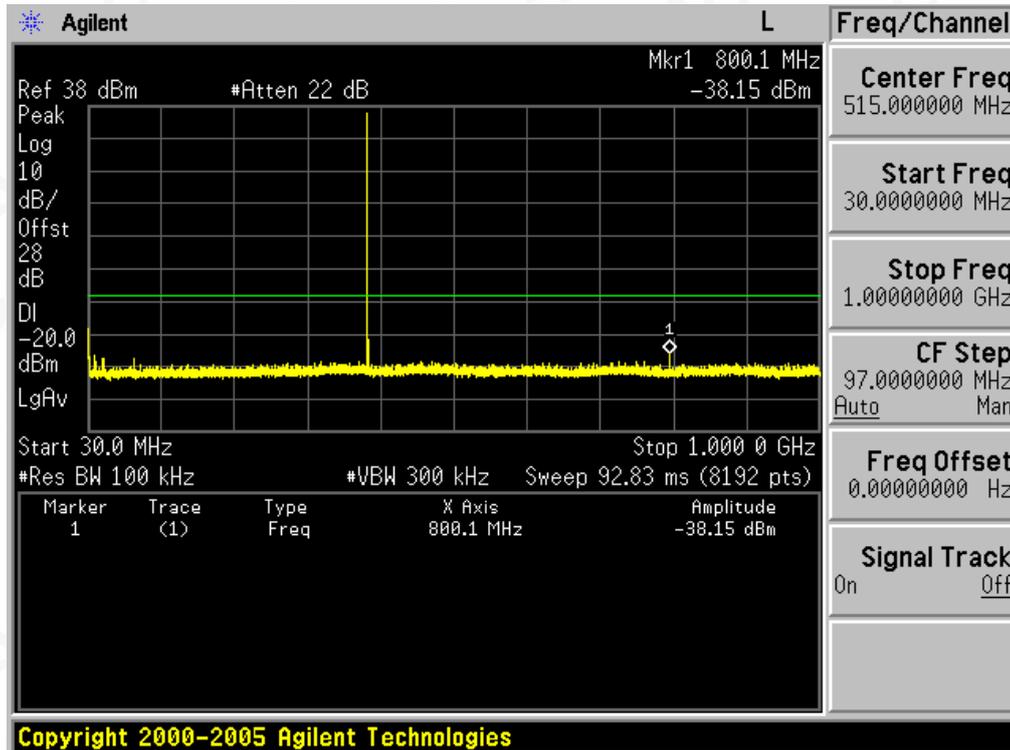
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

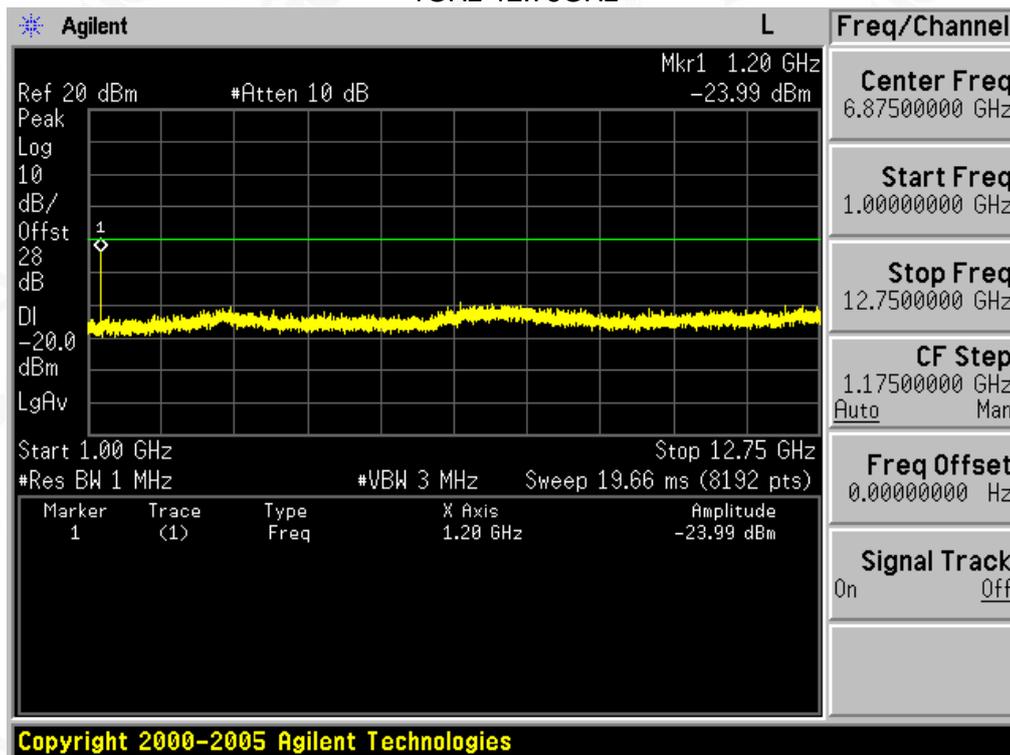
Service Hotline: 400 089 2118

Digital:

Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

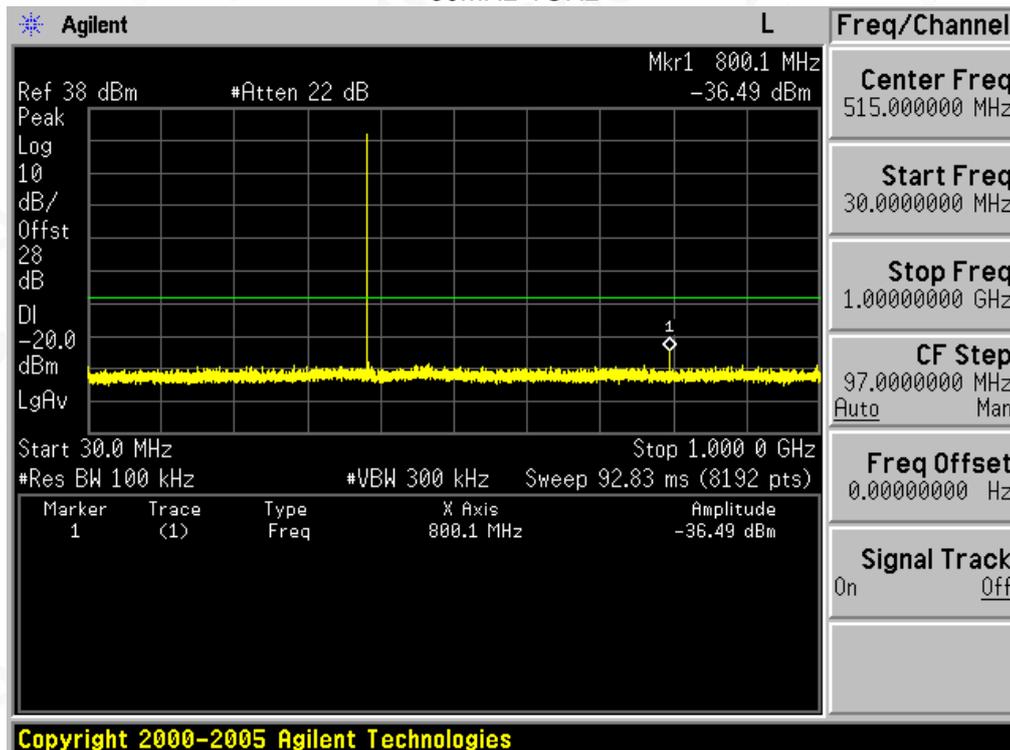
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

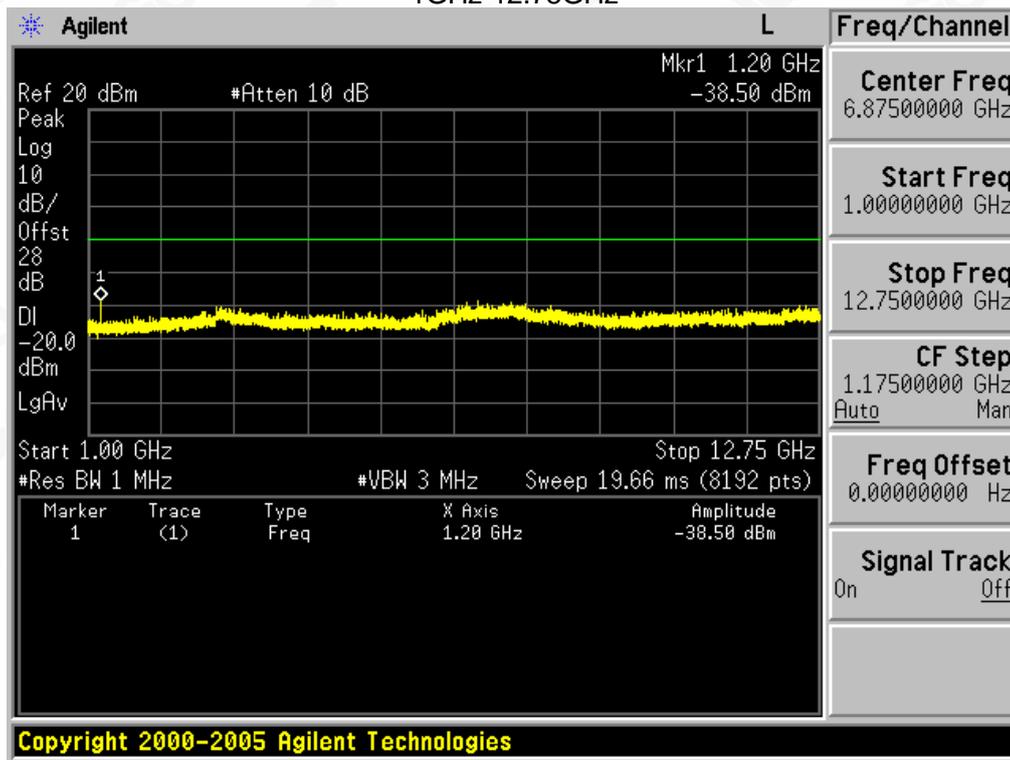
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

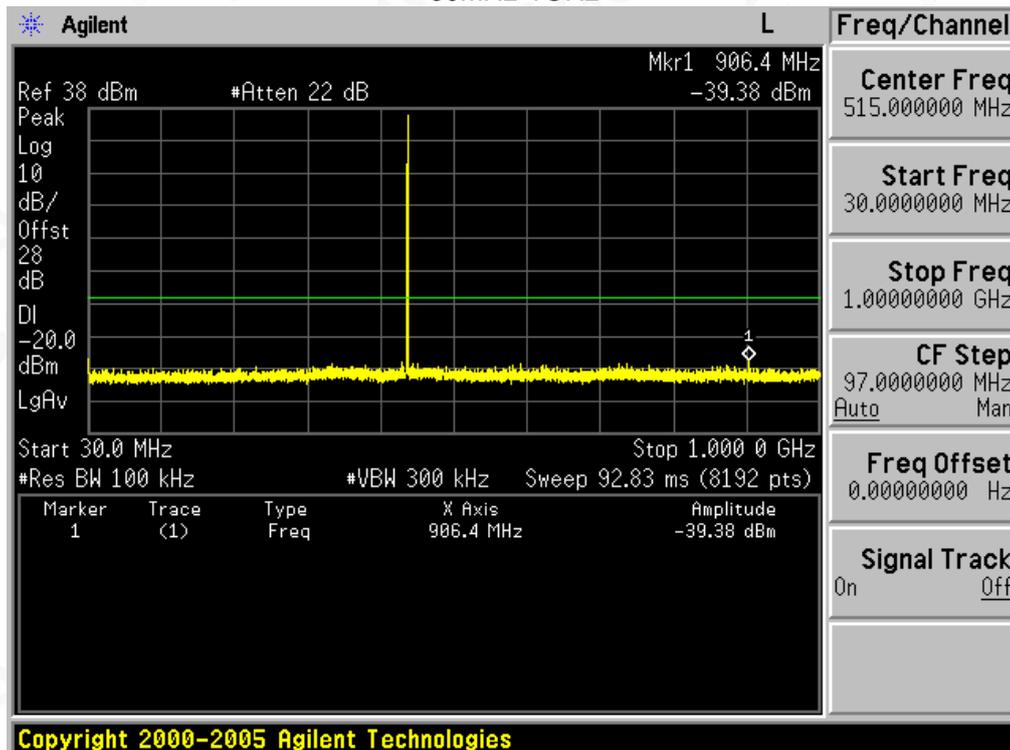
Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



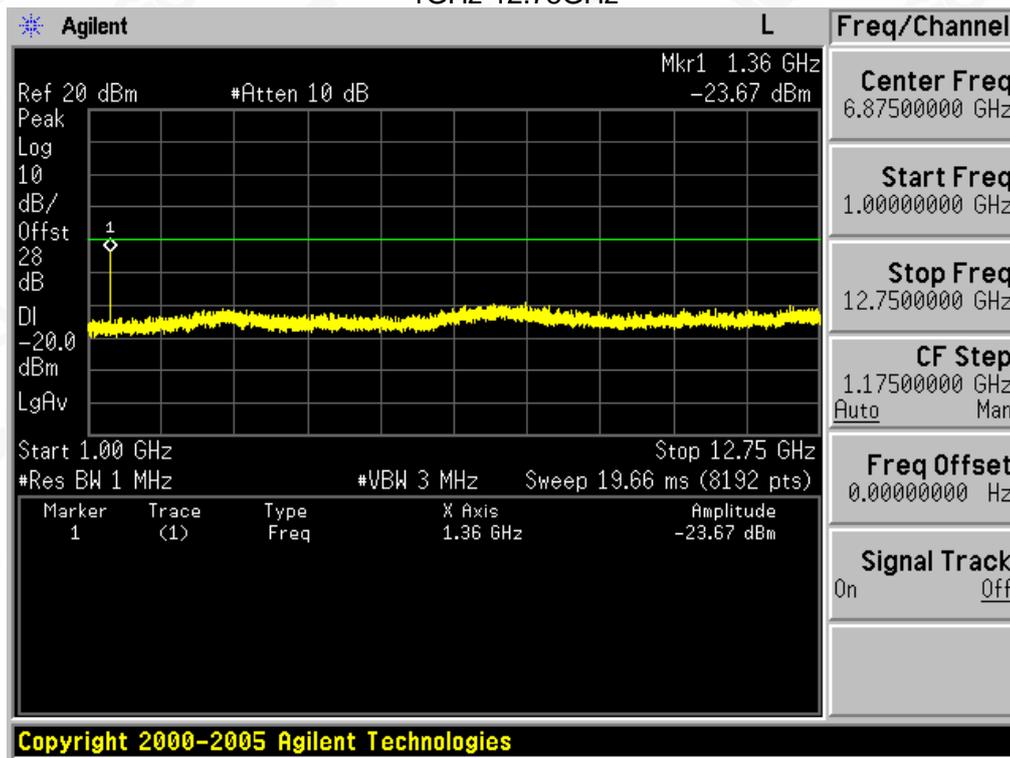
Conduct Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

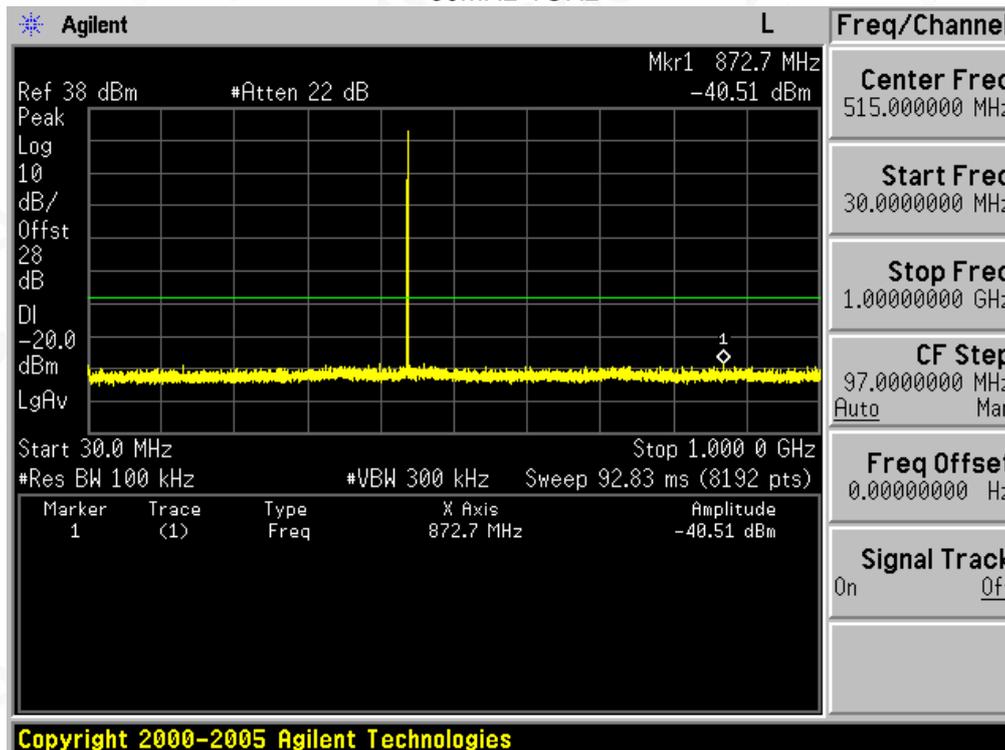
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

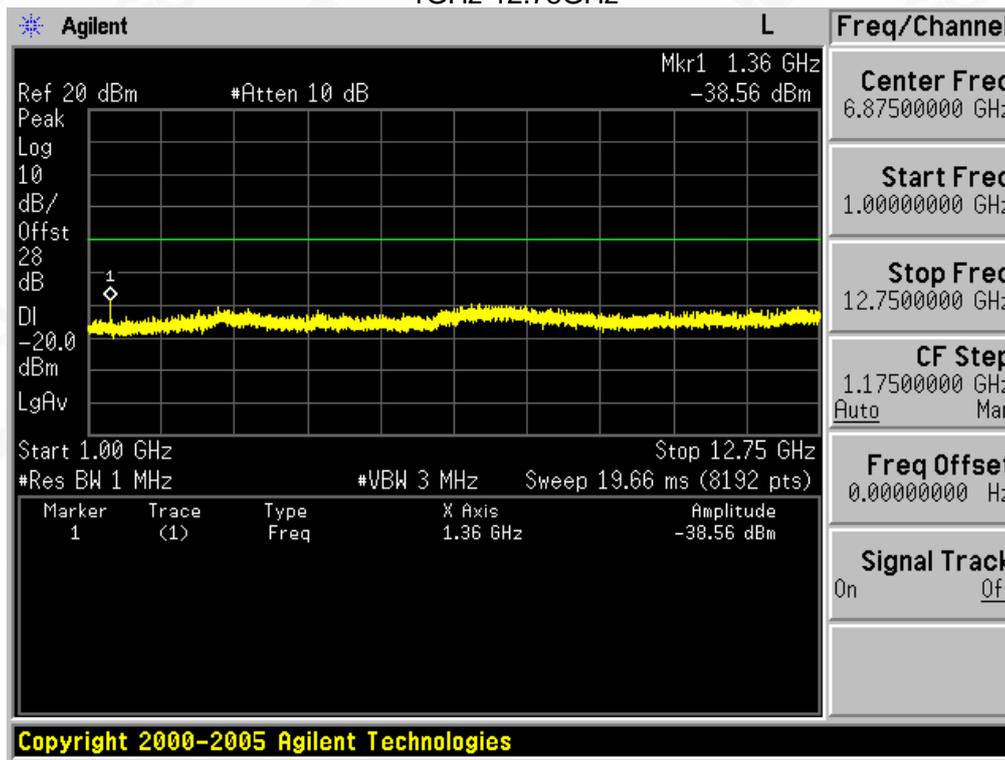
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

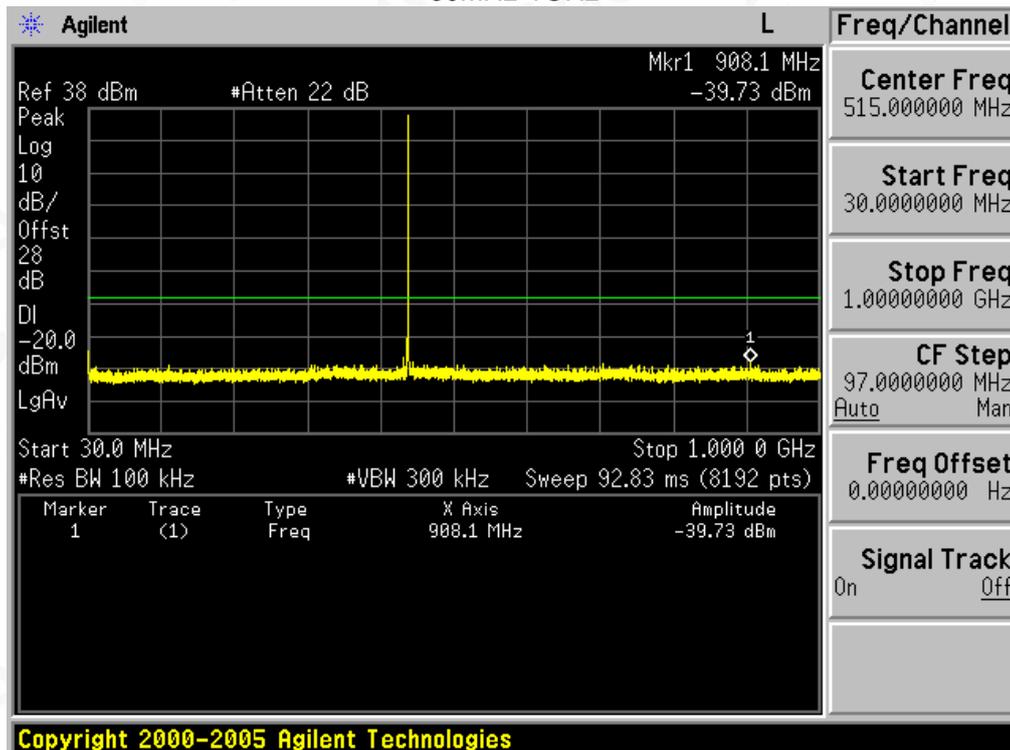
Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



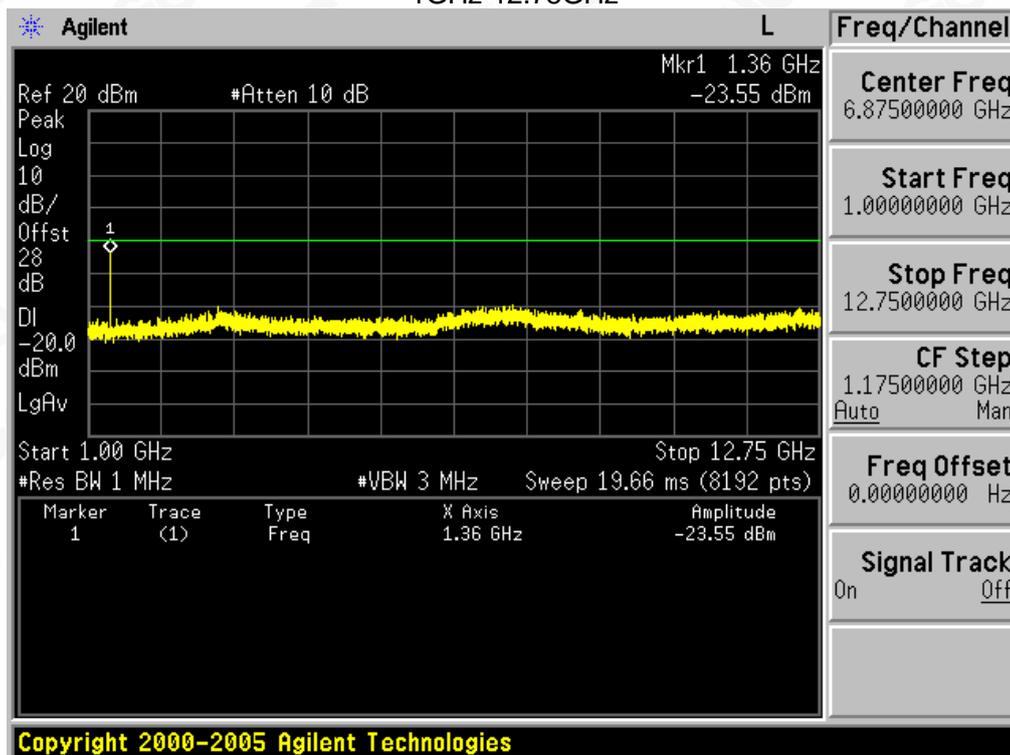
Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



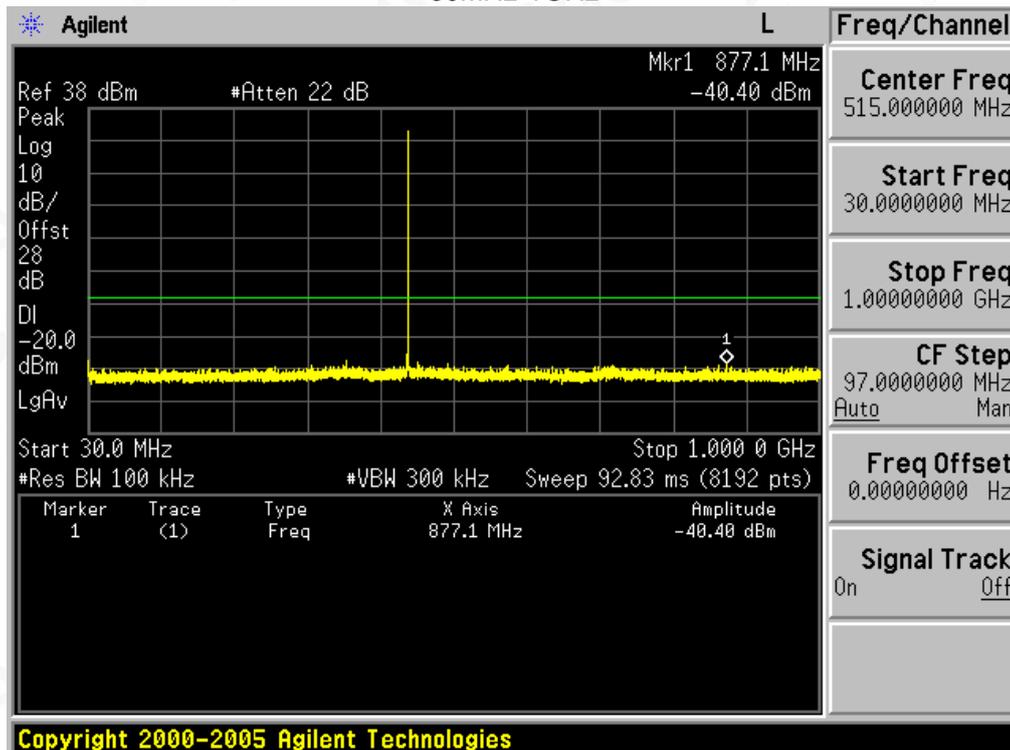
Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

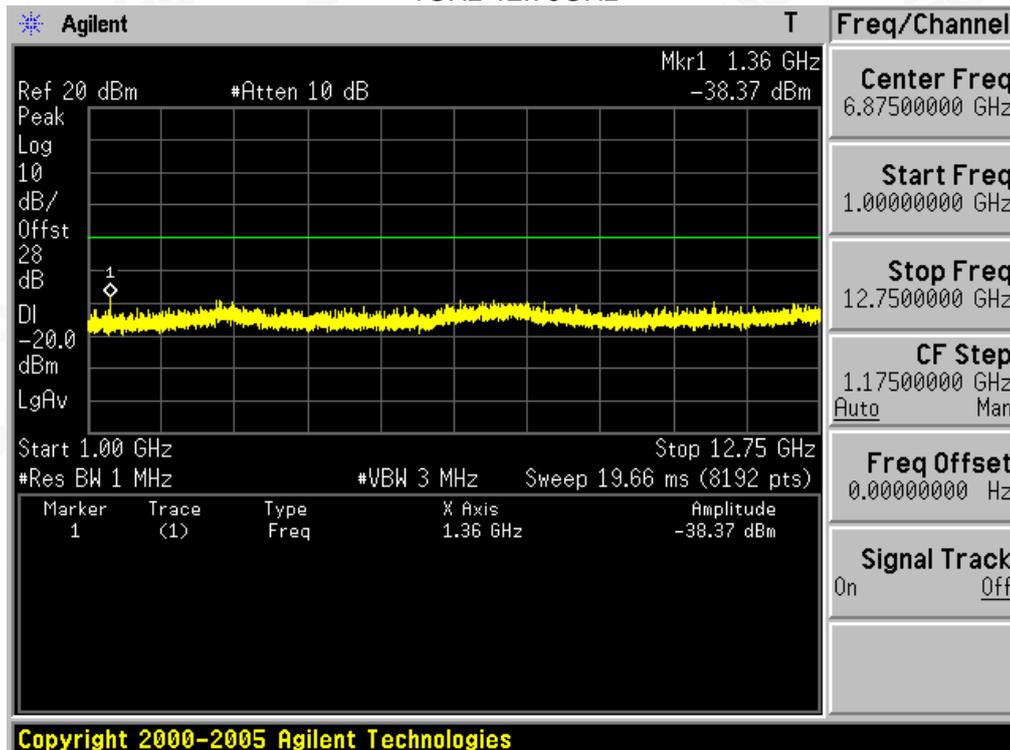


Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Copyright 2000-2005 Agilent Technologies

Conduct Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Copyright 2000-2005 Agilent Technologies



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

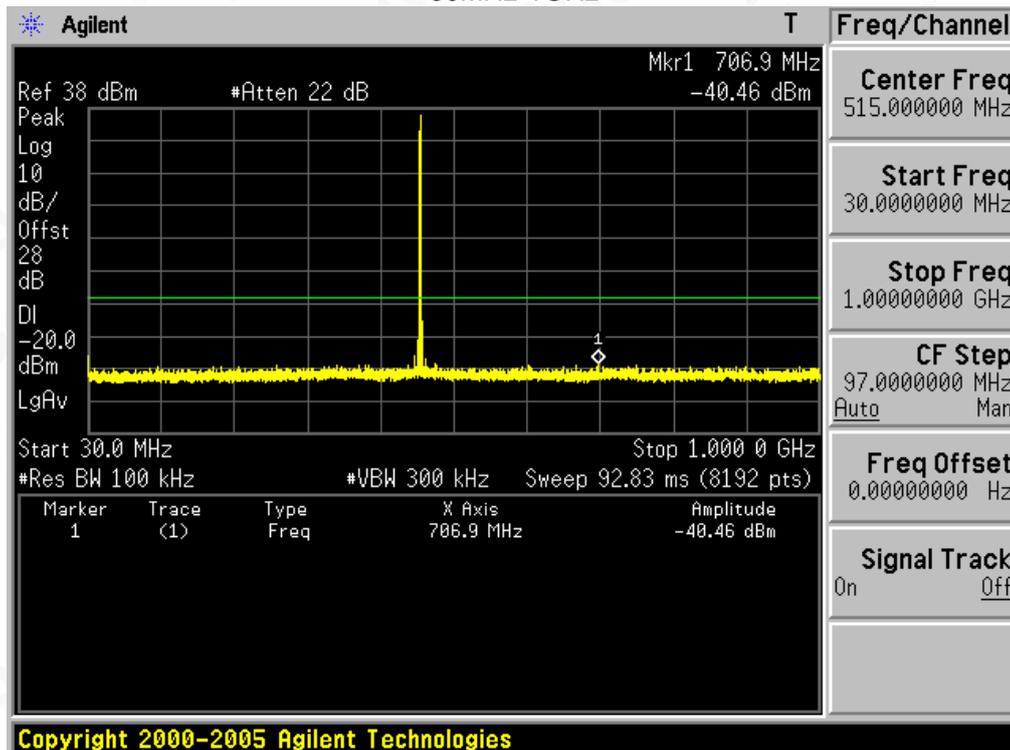
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

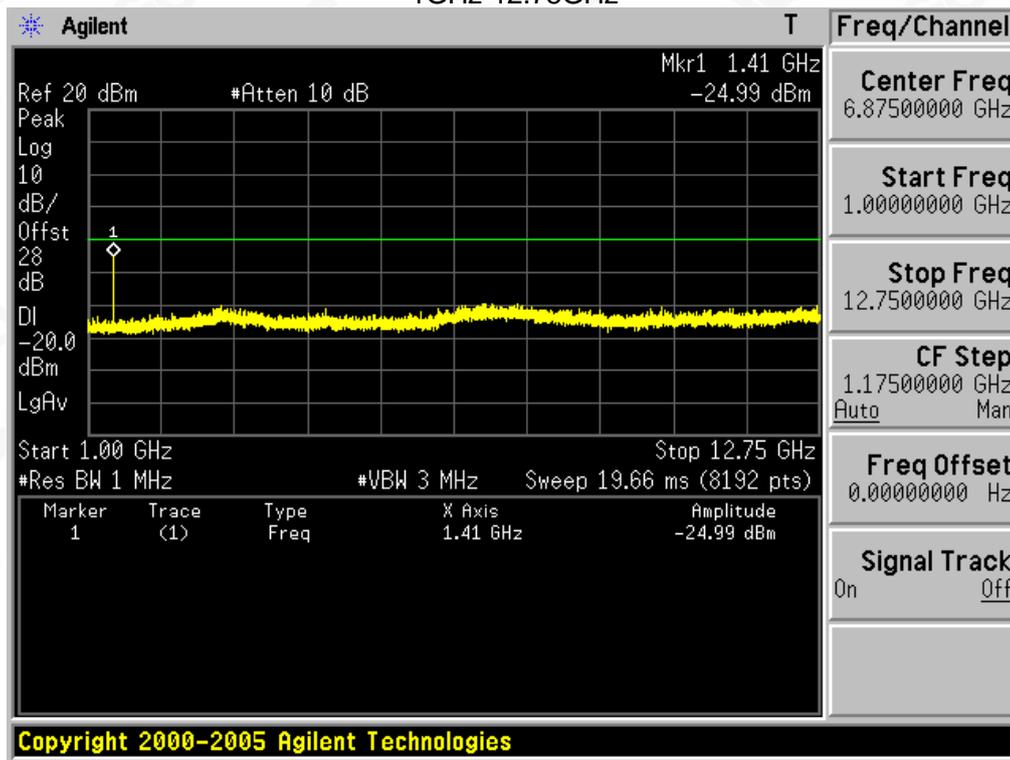
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

Conducted Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

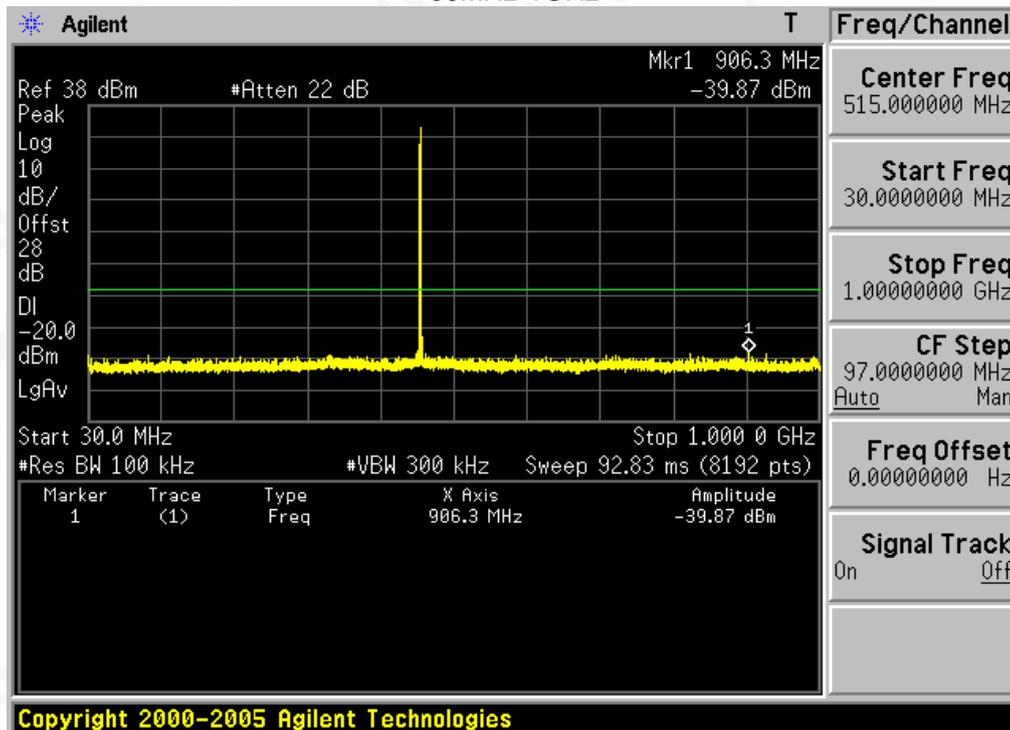
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

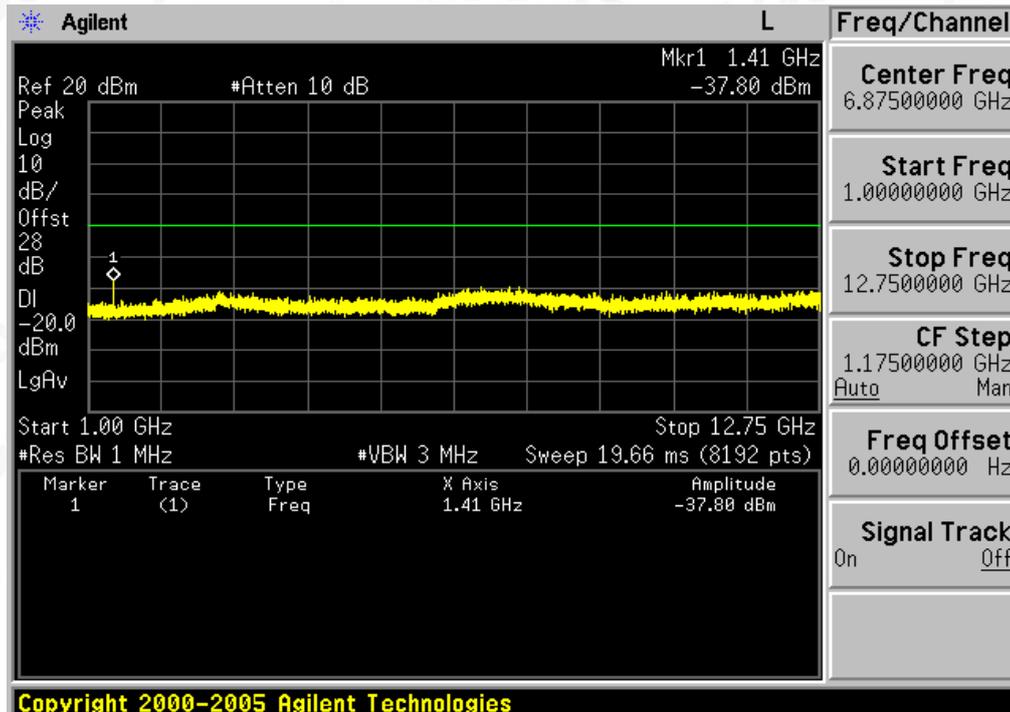
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

Conducted Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conduct Spurious Emission (worst) @ 469.975MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Note:

1. In this case, Part 22 (-13 dBm) is less than the limit of Part 90 (-20 dBm), so we do not need to test Part 22, which meets the spurious limits of PART 90+22.
2. All the test frequencies was tested, but only the worst data be recorded in this part.



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

12. TRANSMITTER FREQUENCY BEHAVIOR

12.1 PROVISIONS APPLICABLE

FCC §90.214

Time intervals ^{1, 2}	Maximum frequency difference ³	All equipment	
		150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels			
t_1 ⁴	± 25.0 kHz	5.0 ms	10.0 ms
t_2	± 12.5 kHz	20.0 ms	25.0 ms
t_3 ⁴	± 25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels			
t_1 ⁴	± 12.5 kHz	5.0 ms	10.0 ms
t_2	± 6.25 kHz	20.0 ms	25.0 ms
t_3 ⁴	± 12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels			
t_1 ⁴	± 6.25 kHz	5.0 ms	10.0 ms
t_2	± 3.125 kHz	20.0 ms	25.0 ms
t_3 ⁴	± 6.25 kHz	5.0 ms	10.0 ms

¹ t_{on} is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.

t_1 is the time period immediately following t_{on} .

t_2 is the time period immediately following t_1 .

t_3 is the time period from the instant when the transmitter is turned off until t_{off} .

t_{off} is the instant when the 1 kHz test signal starts to rise.

² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in §90.213.

³ Difference between the actual transmitter frequency and the assigned transmitter frequency.

⁴ If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

12.2 TEST METHOD

TIA/EIA-603 2.2.19.3



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

12.3 DESCRIBE LIMIT LINE OF TRANSMITTER FREQUENCY BEHAVIOR

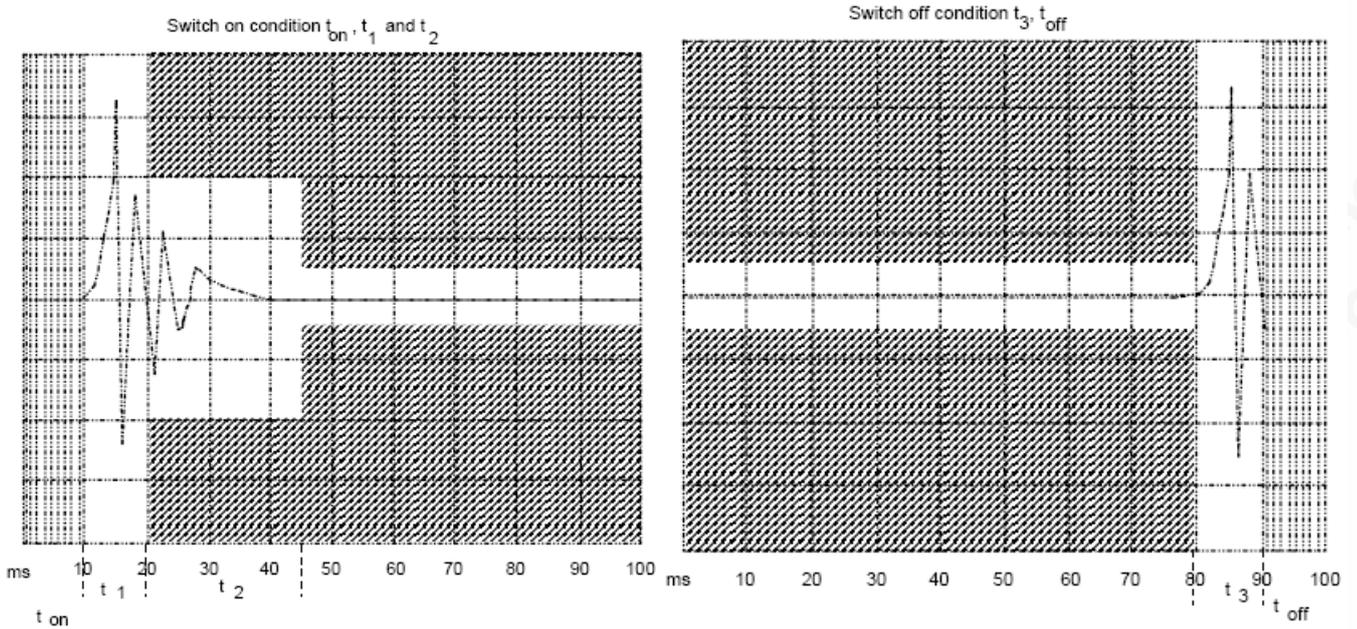
ton: The switch-on instant t_{on} of a transmitter is defined by the condition when the output power, measured at the antenna terminal, exceeds 0,1 % of the full output power (-30 dBc).

t1: period of time starting at t_{on} and finishing according to above 11.1

t2: period of time starting at the end of t_1 and finishing according to above 11.1

toff: switch-off instant defined by the condition when the output power falls below 0,1 % of the full output power (-30 dBc).

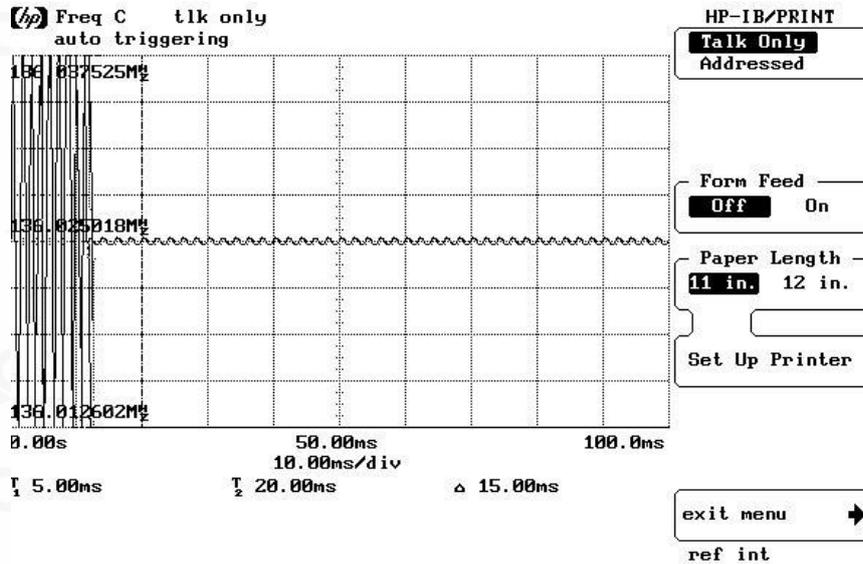
t3: period of time that finishing at t_{off} and starting according to above 11.1



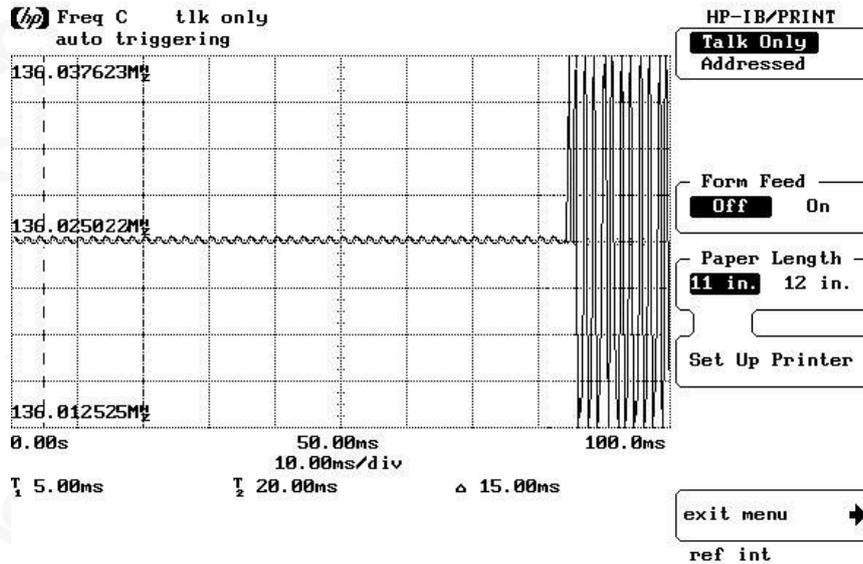
12.4 MEASURE RESULT

VHF:

Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--Off to On



Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--On to Off



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

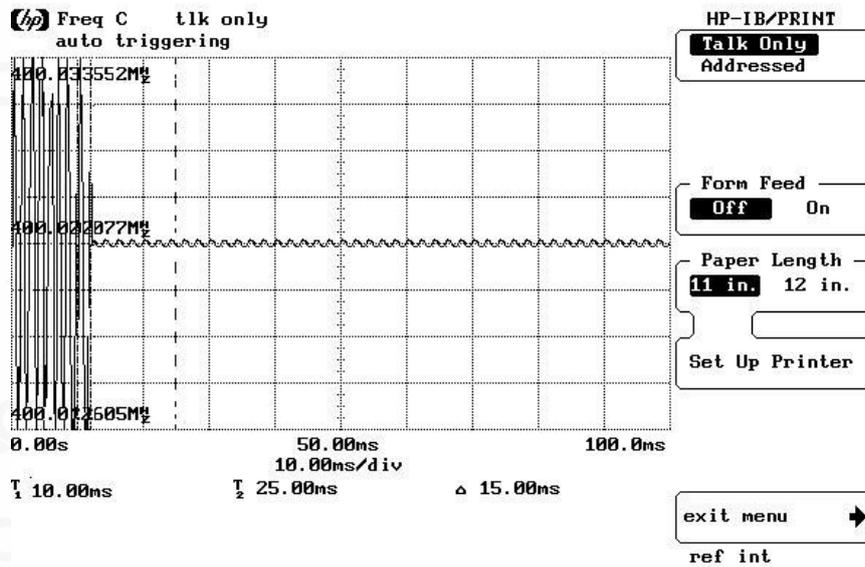
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

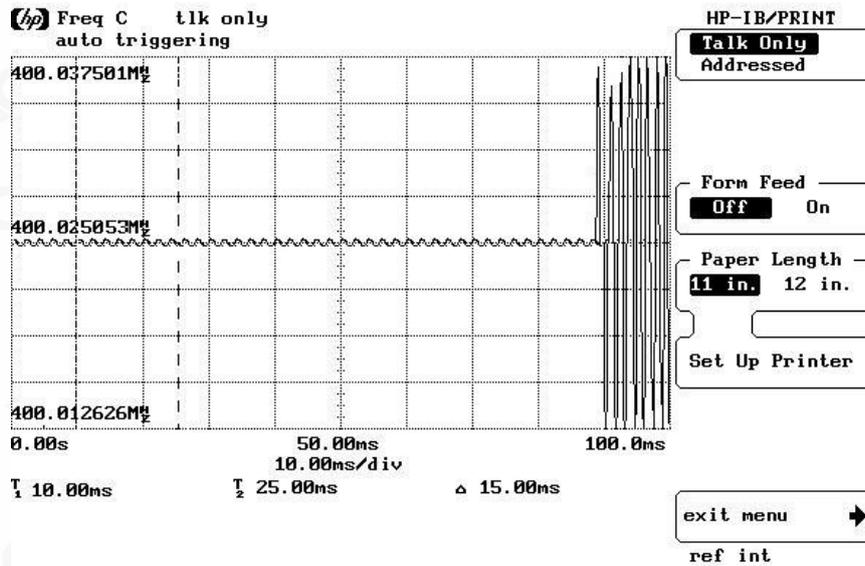
Service Hotline: 400 089 2118

UHF:

Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--Off to On



Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--On to Off



Attestation of Global Compliance

13. AUDIO LOW PASS FILTER RESPONSE

13.1. TEST LIMITS

2.1047(a): Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter or of all circuitry installed between the modulation limiter and the modulated stage shall be submitted.

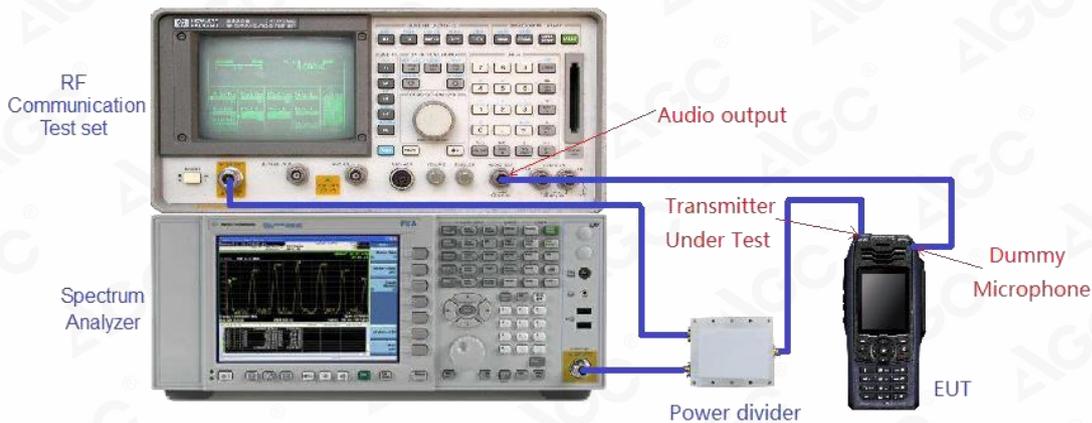
90.242(b)(8): Recommended audio filter attenuation characteristics are given below:

Audio band	Minimum Attenuation Rel. to 1 KHz Attenuation
3 – 20 KHz	$60 \log_{10}(f/3)$ dB where f is in KHz
20 – 30 KHz	50dB

13.2. METHOD OF MEASUREMENTS

The rated audio input signal was applied to the input of the audio low-pass filter (or of all modulation stages) using an audio oscillator, this input signal level and its corresponding output signal were then measured and recorded using the FFT Digital Spectrum Analyzer. Tests were repeated at different audio signal frequencies from 0 to 50 KHz.

13.3. TEST CONFIGURATION

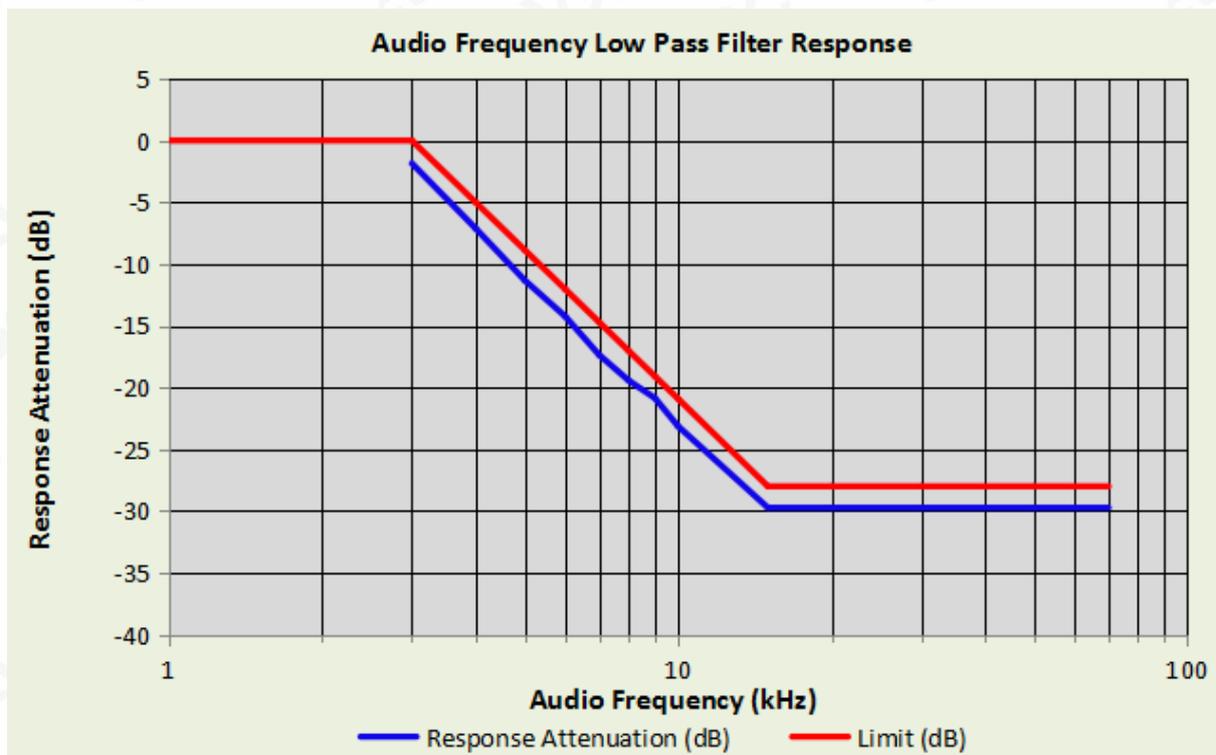


13.4.MEASURE RESULT

Analog:

12.5 KHZ CHANNEL SPACING, F3E, FREQUENCY OF ALL MODULATION STATES (TEST RESULT FOR UHF)-5W

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1	0	/
3	-1.85	0.00
4	-7.11	-5.00
5	-11.33	-8.87
6	-14.24	-12.04
7	-17.37	-14.72
8	-19.44	-17.04
9	-20.85	-19.08
10	-23.14	-20.92
15	-29.73	-28.00
20	-29.73	-28.00
30	-29.73	-28.00
50	-29.73	-28.00
70	-29.73	-28.00



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

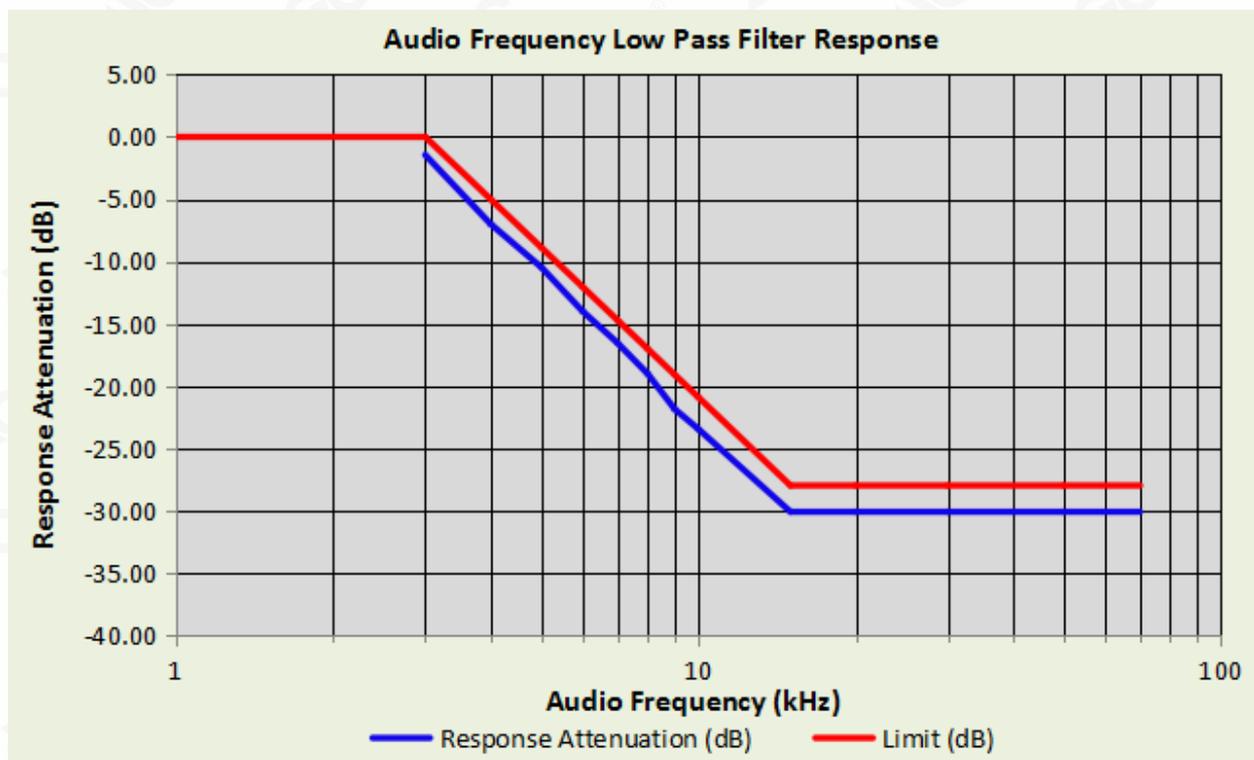
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

12.5 KHZ CHANNEL SPACING, F3E, FREQUENCY OF ALL MODULATION STATES (TEST RESULT FOR VHF)-5W

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1	0	/
3	-1.45	0.00
4	-6.99	-5.00
5	-10.46	-8.87
6	-14.00	-12.04
7	-16.55	-14.72
8	-19.04	-17.04
9	-21.85	-19.08
10	-23.47	-20.92
15	-30.11	-28.00
20	-30.11	-28.00
30	-30.11	-28.00
50	-30.11	-28.00
70	-30.11	-28.00



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.
 Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
 Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

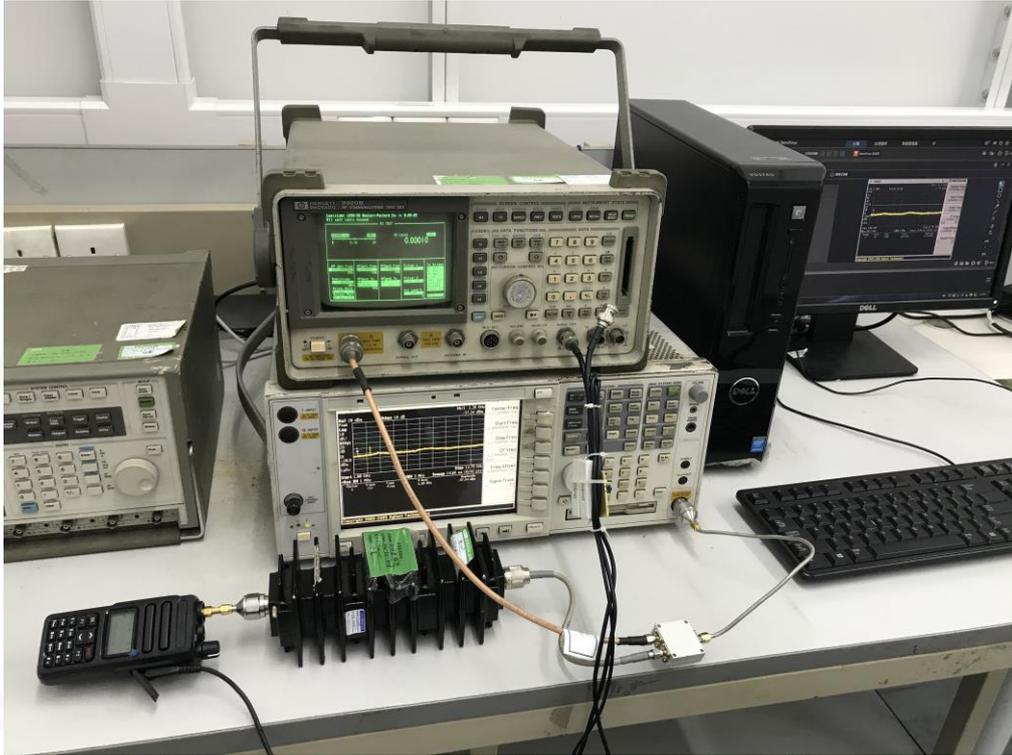
APPENDIX I: PHOTOGRAPHS OF SETUP
RADIATED EMISSION TEST SETUP



RADIATED EMISSION ABOVE 1G TEST SETUP



CONDUCTED TEST SETUP



APPENDIX II: EXTERNAL VIEW OF EUT

WHOLE VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



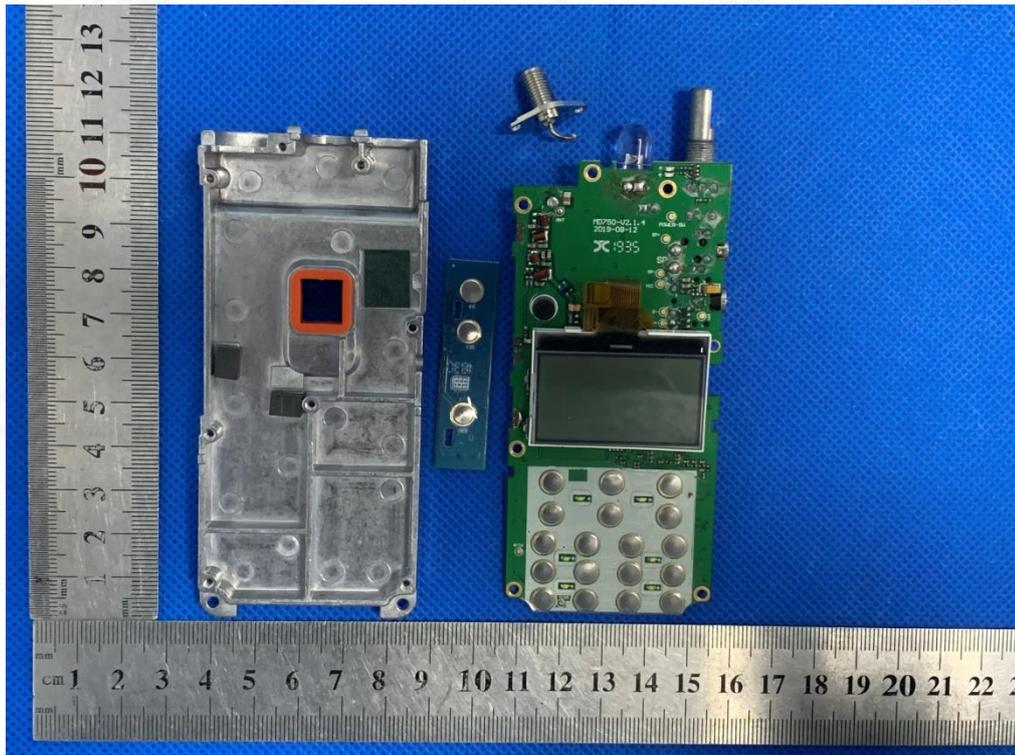
OPEN VIEW-1 OF EUT



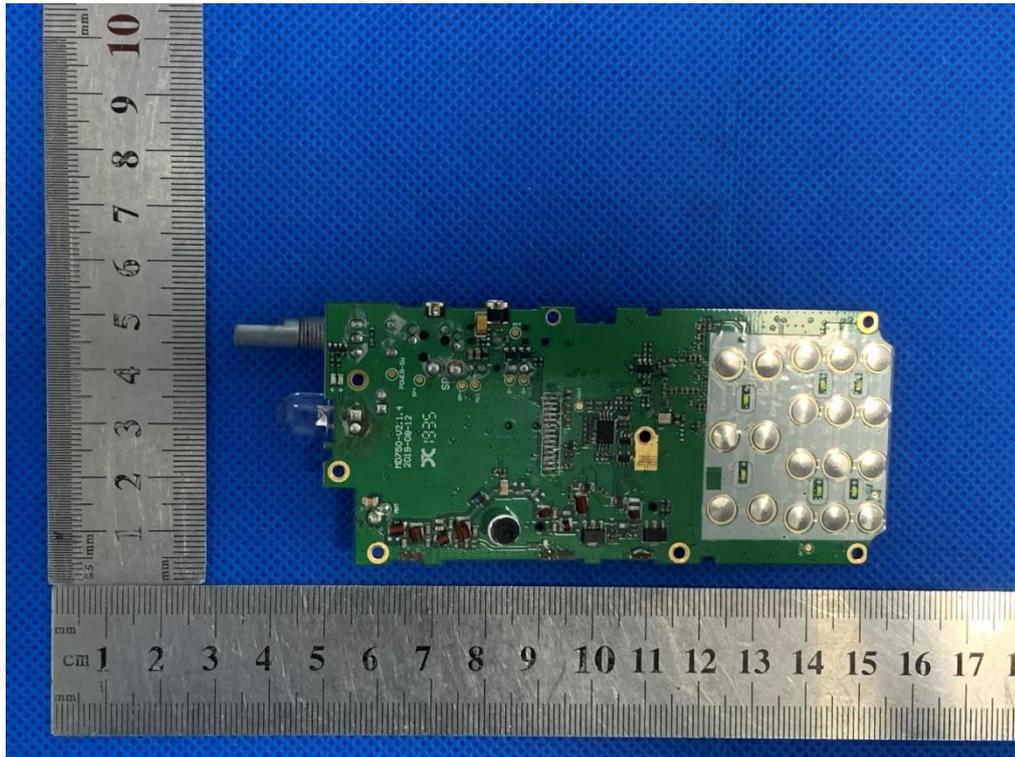
OPEN VIEW-2 OF EUT



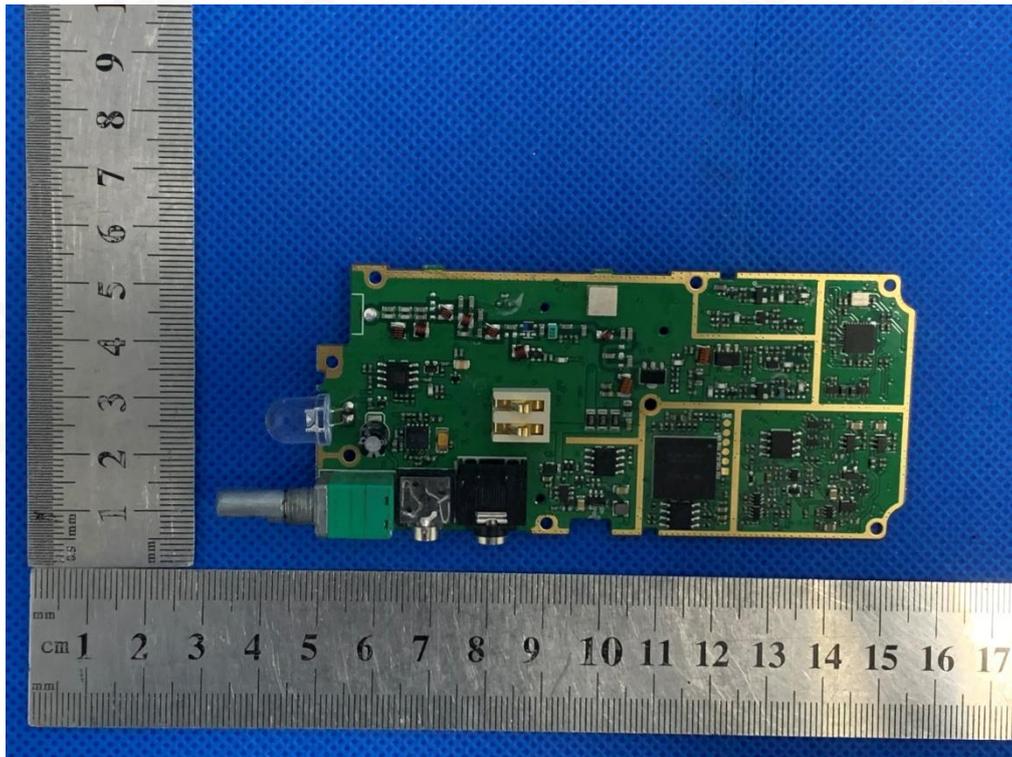
OPEN VIEW-3 OF EUT



INTERNAL VIEW-1 OF EUT



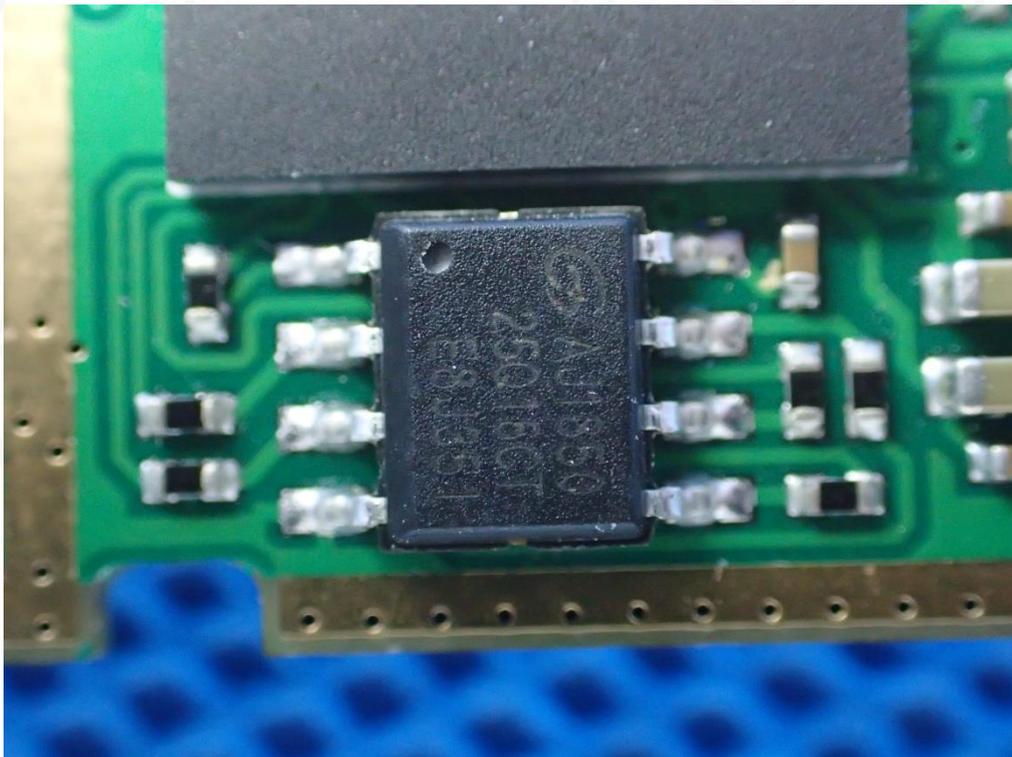
INTERNAL VIEW-2 OF EUT



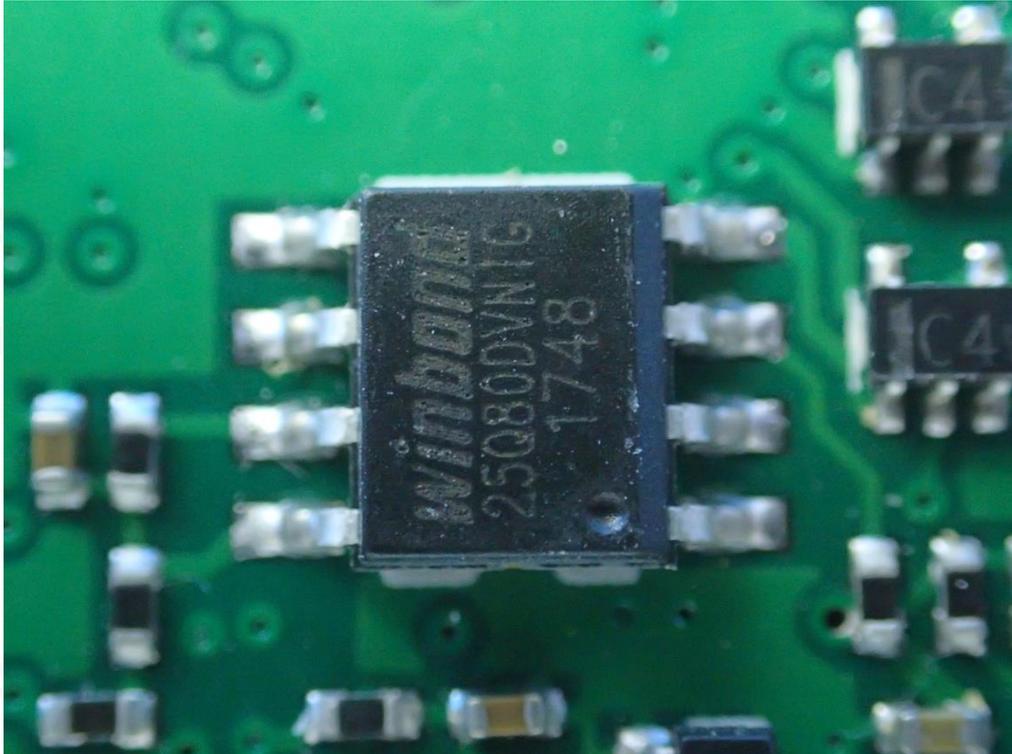
INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT



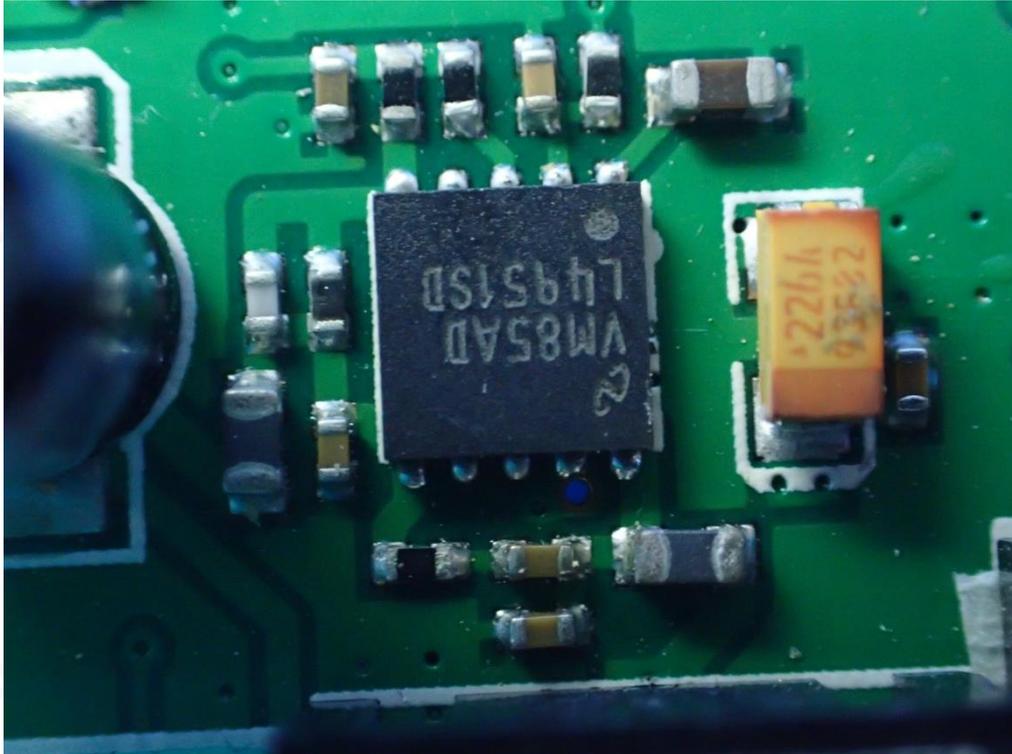
INTERNAL VIEW-5 OF EUT



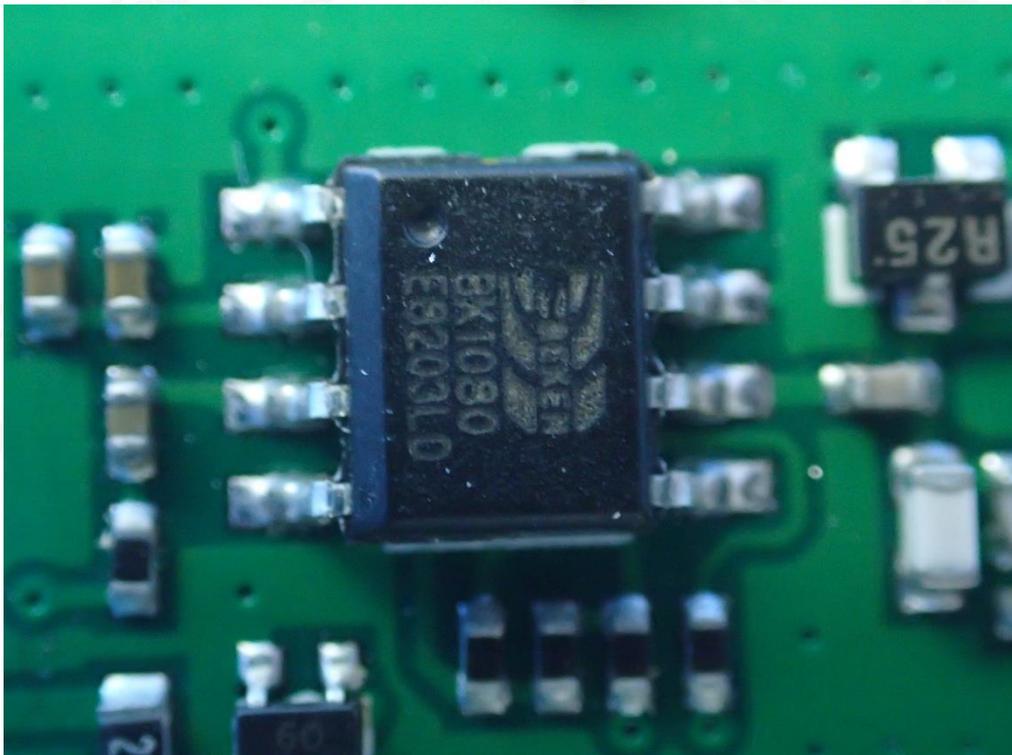
INTERNAL VIEW-6 OF EUT



INTERNAL VIEW-7 OF EUT



INTERNAL VIEW-8 OF EUT



INTERNAL VIEW-9 OF EUT



----END OF REPORT----

