



Triarchy Technologies CORP.

Vincit Omnia Veritas

蓝牙信号测试





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蓝牙概述

• 蓝牙频段

- 所有信道都在**2.4 GHz**的ISM频段内
- 蓝牙信道间隔为**1 MHz**.
- 信道所用频率计算为 **$2401 + n$** ，其中n从1到79

• 蓝牙调制

- 蓝牙版本**1**，调制方式**GFSK**
- 蓝牙**2 增强速率**，调制方式 **$\pi/4$ DQPSK**速率**2Mbps**，**3Mbps**
8DPSK

• 蓝牙功率

- **Class 1** **20dBm**
- **Class 2** **4dBm**
- **Class 3** **0dBm**



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蓝牙耳机辐射测试

1: USB微型频谱仪与2.4G鞭形天线连接，并靠近蓝牙耳机

2: 开启耳机蓝牙与手机配对并拨打电话，蓝牙耳机将接起呼叫并建立音频连接。





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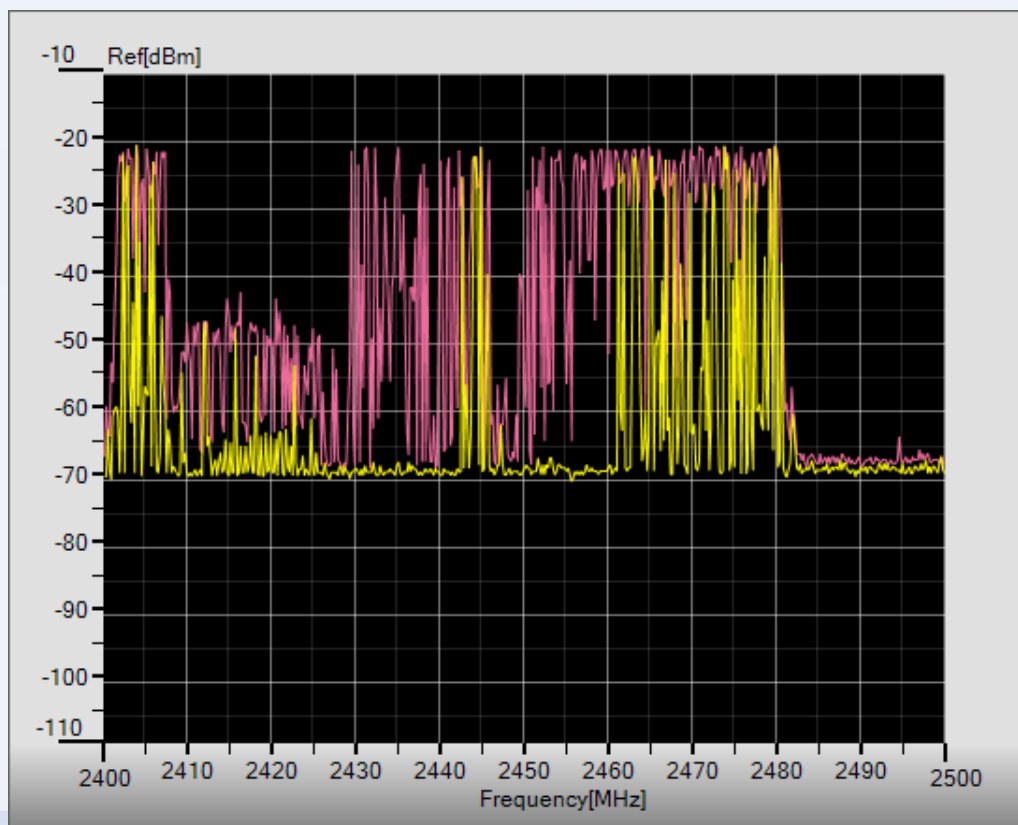
蓝牙耳机辐射测试

TSA5G35 参数设定:

Parameter Setting

Center-Freq(MHz)	2440	Start	
Span(MHz)	100		
Amplitude(dBm)	-20		<input type="checkbox"/> External ATT(30dB)
Sweep Time	x8 (Burst Mode)		

蓝牙工作在跳频，需等待较长时间才能得到测试结果。

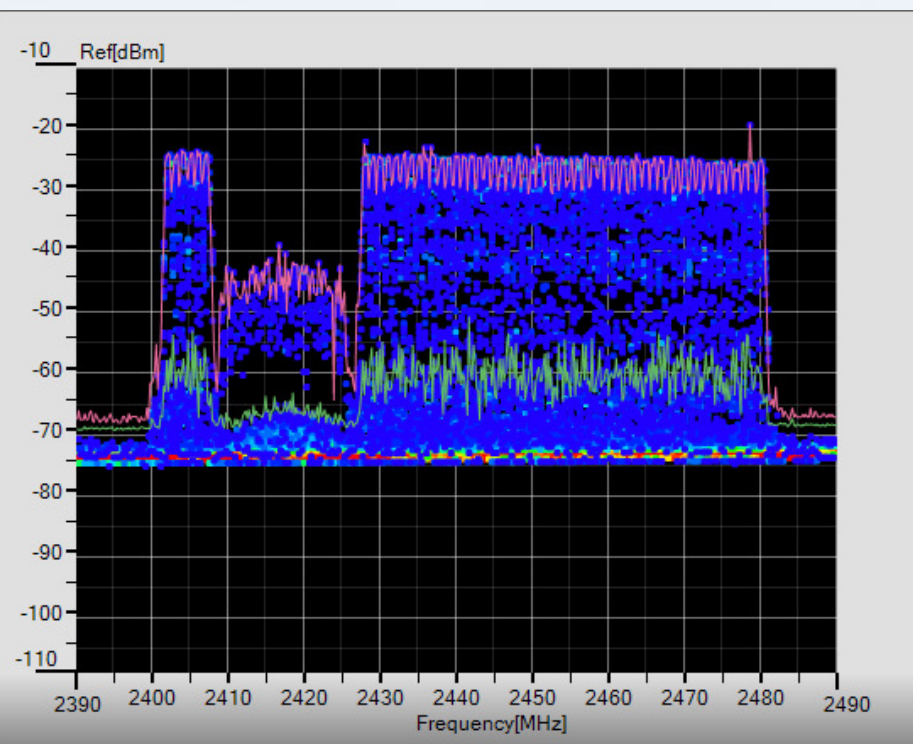
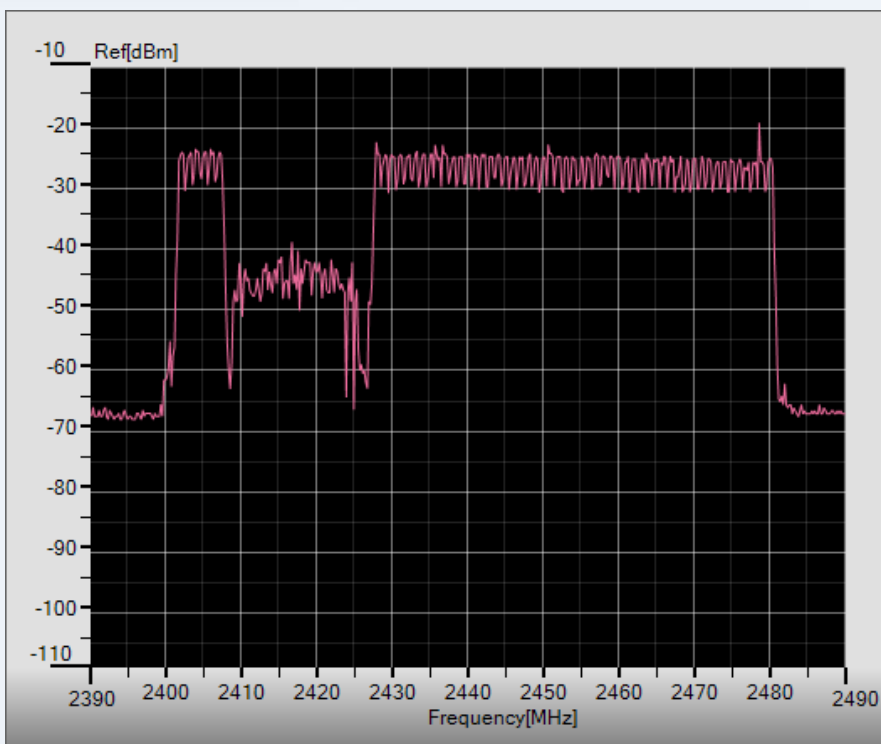




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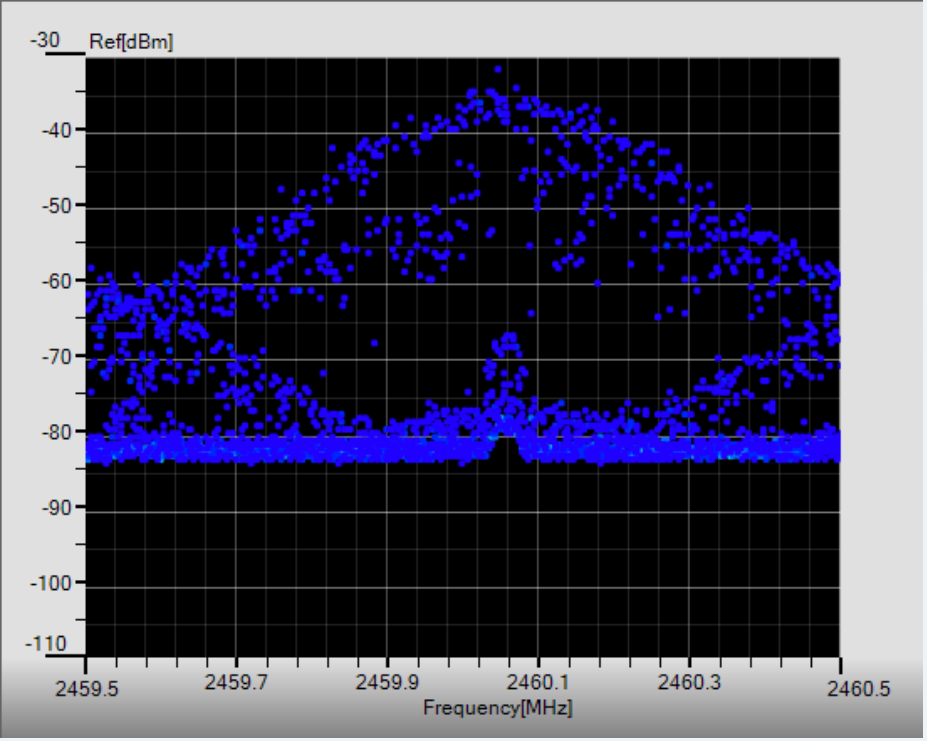
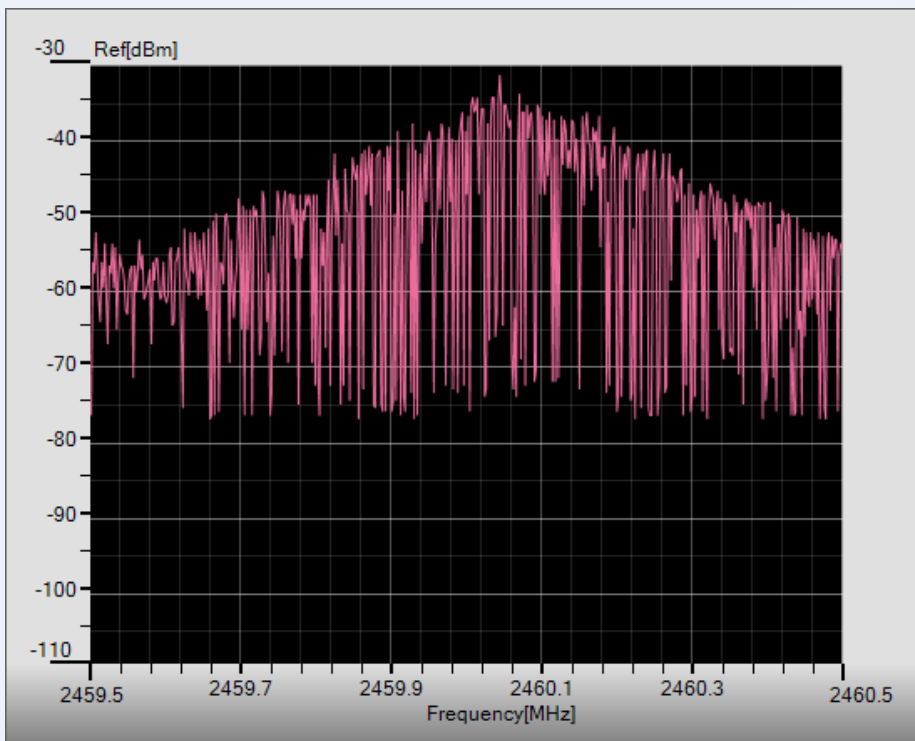
MAX曲线和最大值、平均值和密度图像，蓝牙将检测wifi信号并避免跳跃到wifi频段



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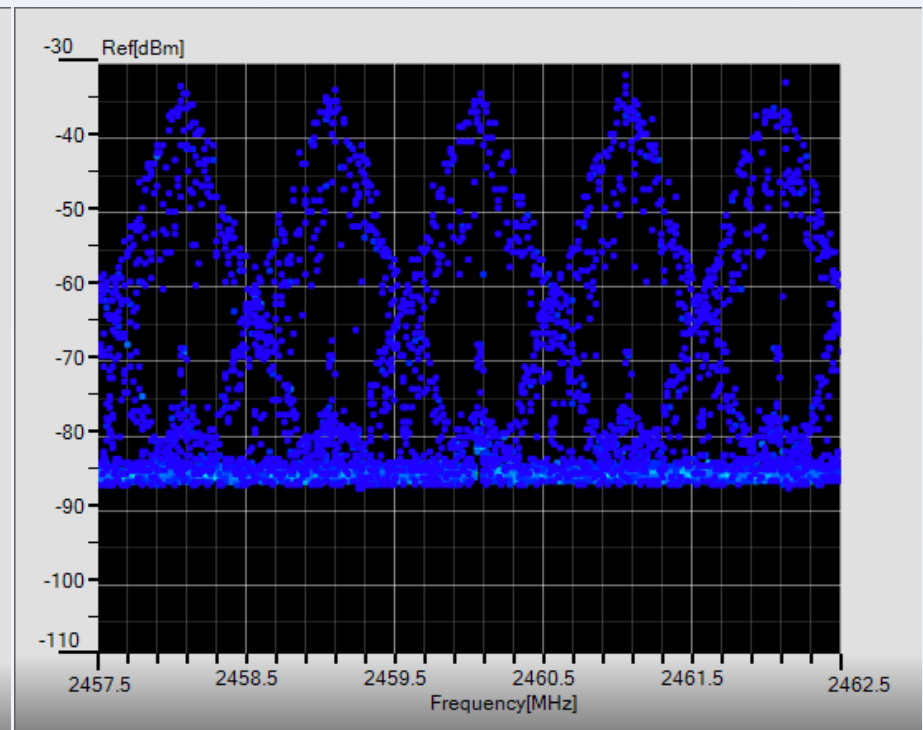
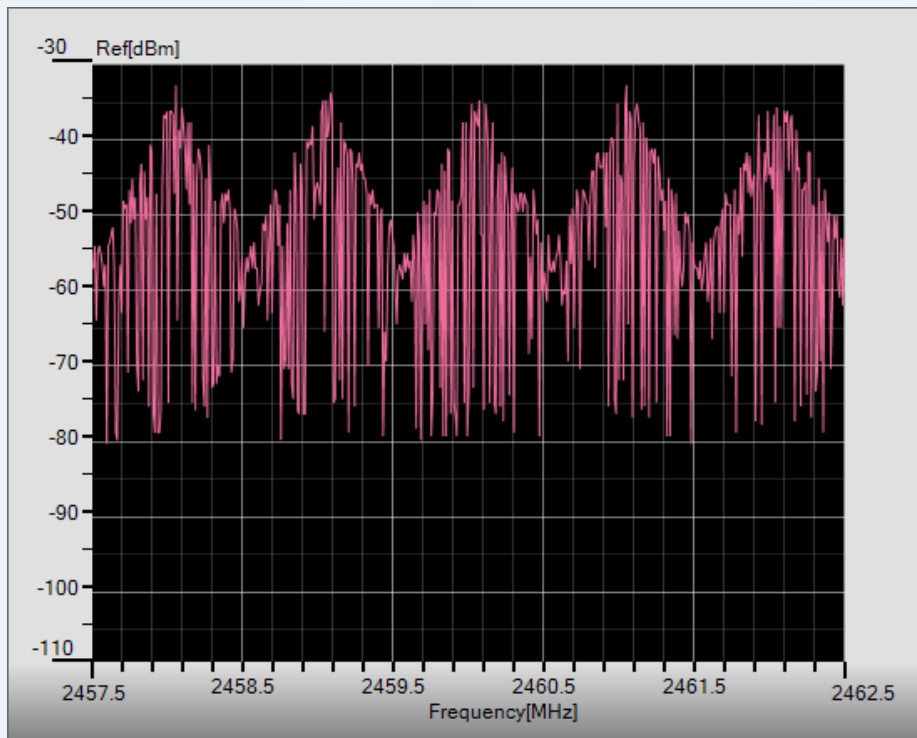
Frequency=2460MHz, Span=1MHz, CH 60 will be displayed.



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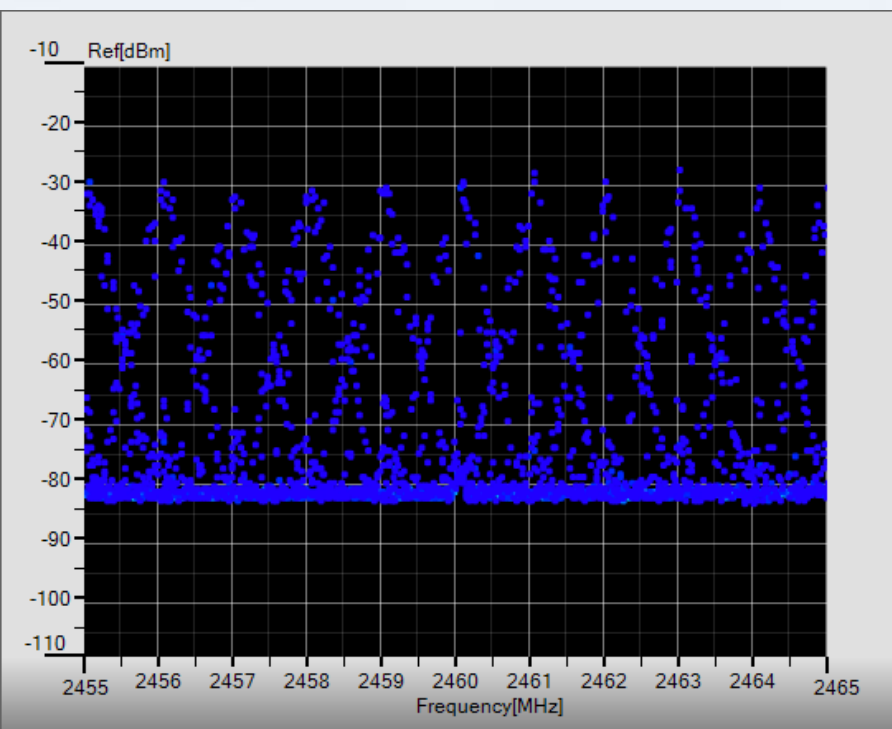
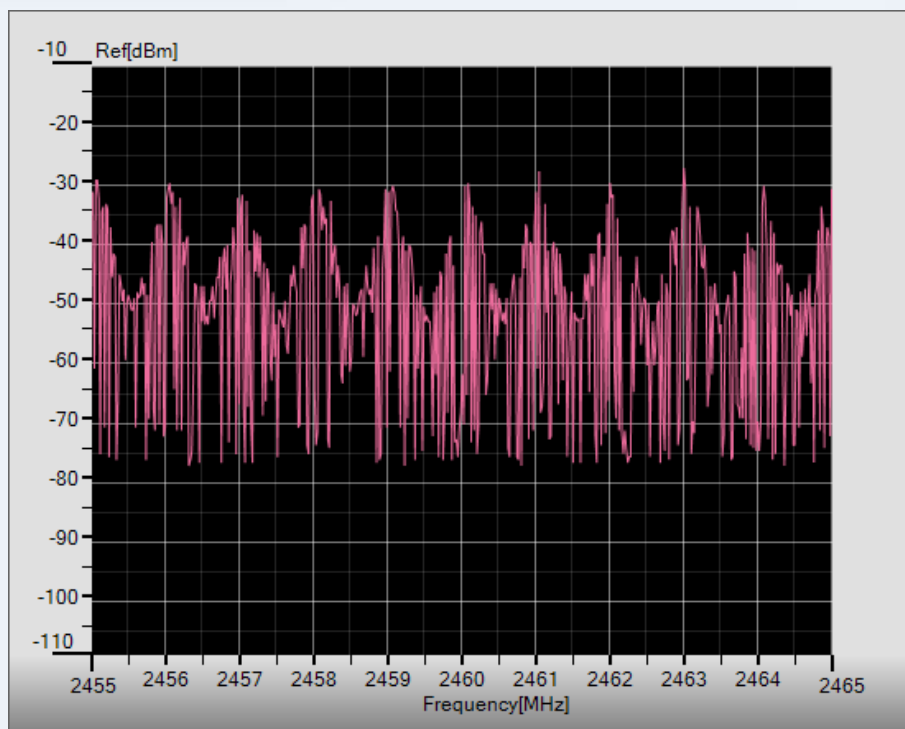
Frequency=2460MHz, Span=5MHz, CH48~CH62 will be displayed.



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Frequency=2460MHz, Span=10MHz, CH55~CH65 will be displayed.