



**LS RESEARCH**  
Wireless Product Development

## **FCC RF Safety Evaluation Exhibit**

**Ekahau**

**FCC ID Number: TA7-T301-W1**

**Output Power Evaluation.**

Evaluation Frequency = 2412MHz

Maximum Uncorrected EIRP = 13.96dBm

Corrected EIRP= 13.96-14.57<sup>Note 1</sup> = -0.61dBm

Maximum EIRP (mW) =  $\log^{-1}(\text{ERP}(\text{dBm})/10)$  = 0.87mW

Conclusion:

Since the maximum EIRP is less than the applicable limit:

$60/f(\text{GHz}) \text{ mW} = 60/2.412 = 24.9\text{mW}$

this product is exempt from SAR Evaluation.

Note:

1. Refer to appendix for calculation of source-based time average correction factor.

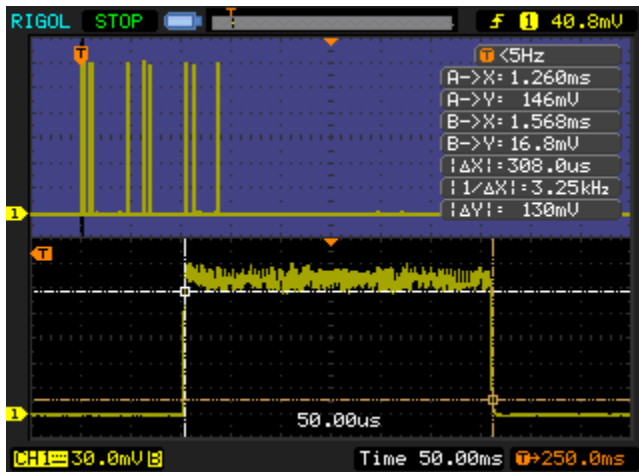
## Appendix

Correction Factor =  $10 \cdot \log_{10}(\text{duty cycle})$

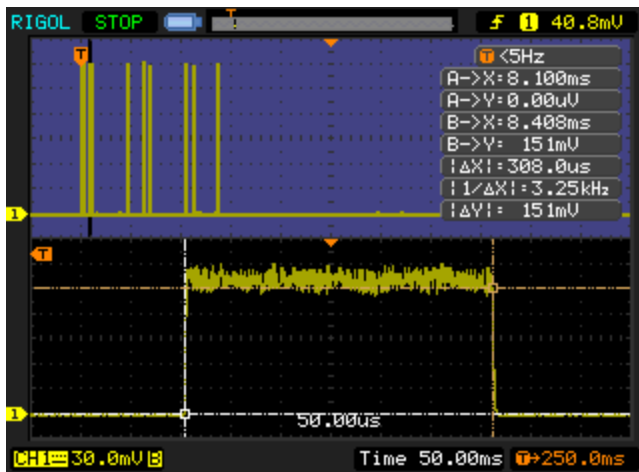
Total transmit on-time =  $0.308 + 0.308 + 0.656 + 0.656 + 1.208 + 0.180 + 0.110 + 0.220 + 0.110 + 0.220 = 3.976 \text{ ms}$

Transmit period = 114 ms

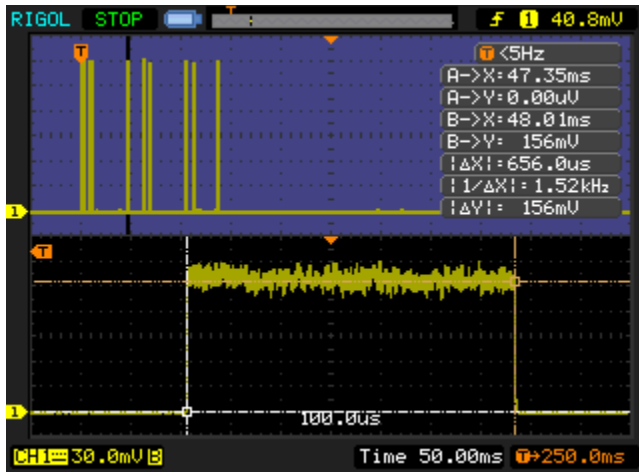
Correction Factor =  $10 \cdot \log_{10}(3.976 / 114 \text{ ms}) = -14.57\text{dB}$



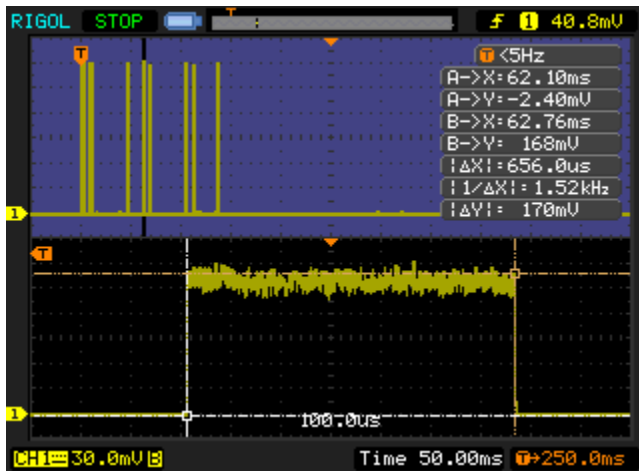
1<sup>st</sup> packet (0.308ms)



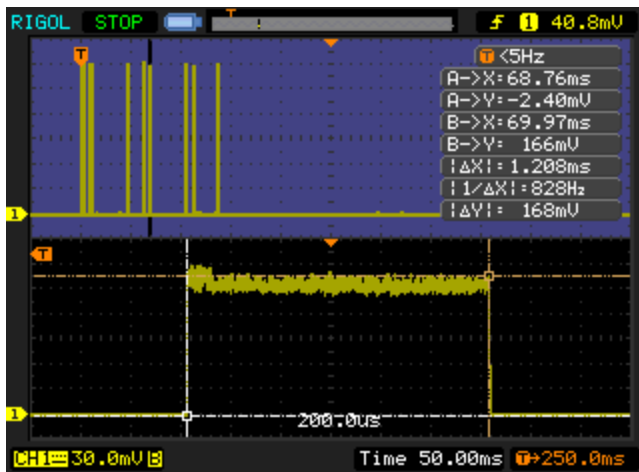
2<sup>nd</sup> packet (0.308ms)



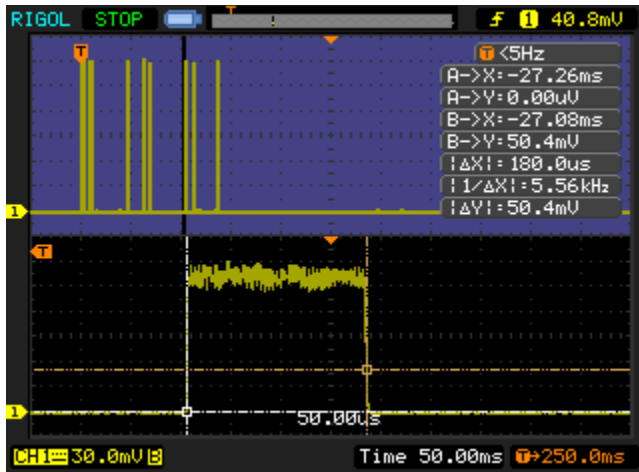
3<sup>rd</sup> packet (0.656ms)



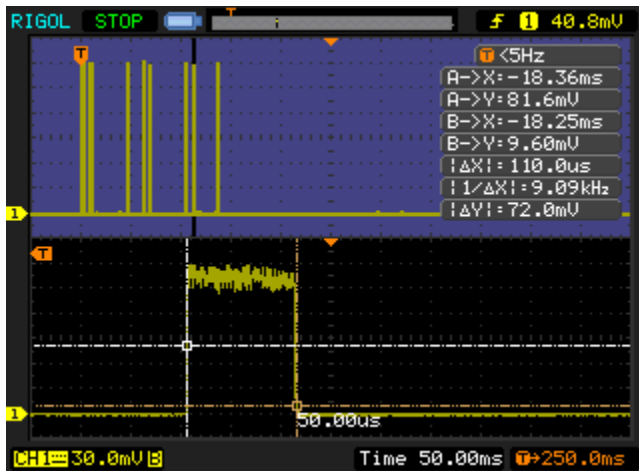
4<sup>th</sup> packet (0.656ms)



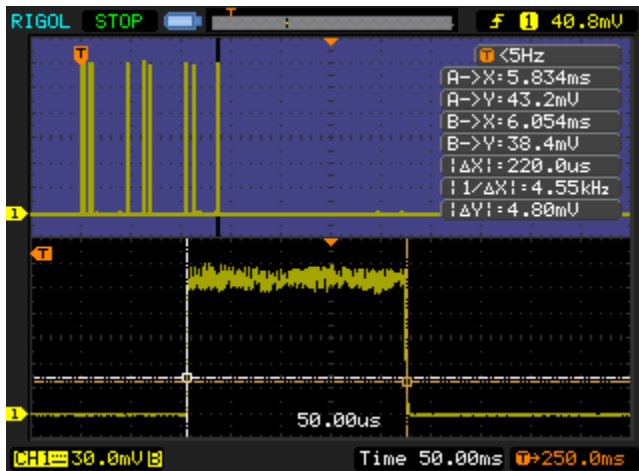
5<sup>th</sup> packet (1.208ms)



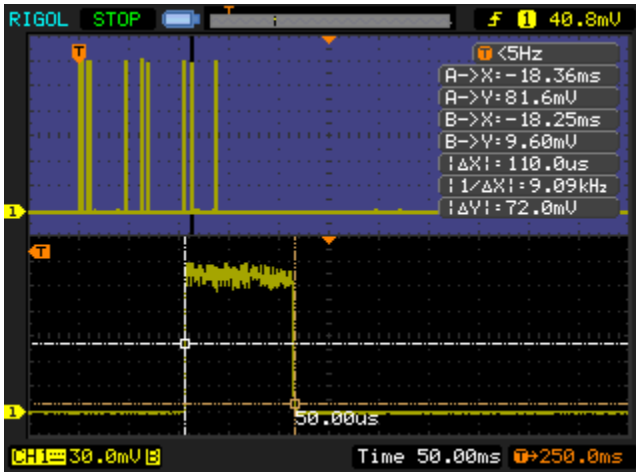
6<sup>th</sup> packet (0.180ms)



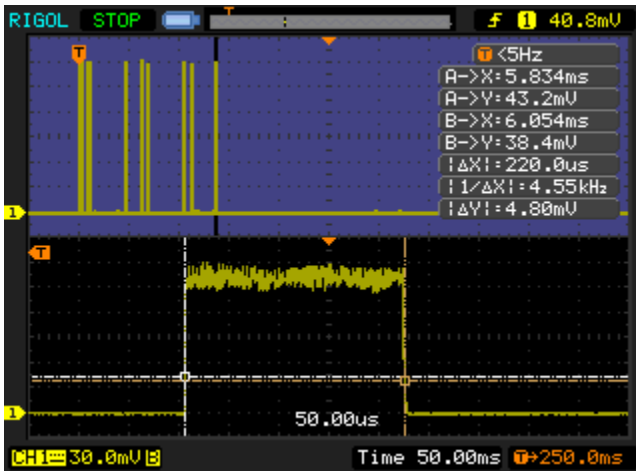
7<sup>th</sup> packet (0.110ms)



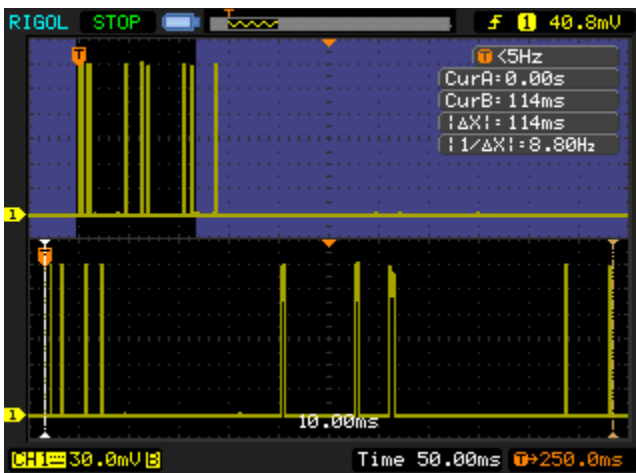
8<sup>th</sup> packet (0.220ms)



9<sup>th</sup> packet (.110ms)



10<sup>th</sup> packet (.220ms)



Capture of 114ms transmit cycle