

PD and LED
candidate for OSEM
at low temperature

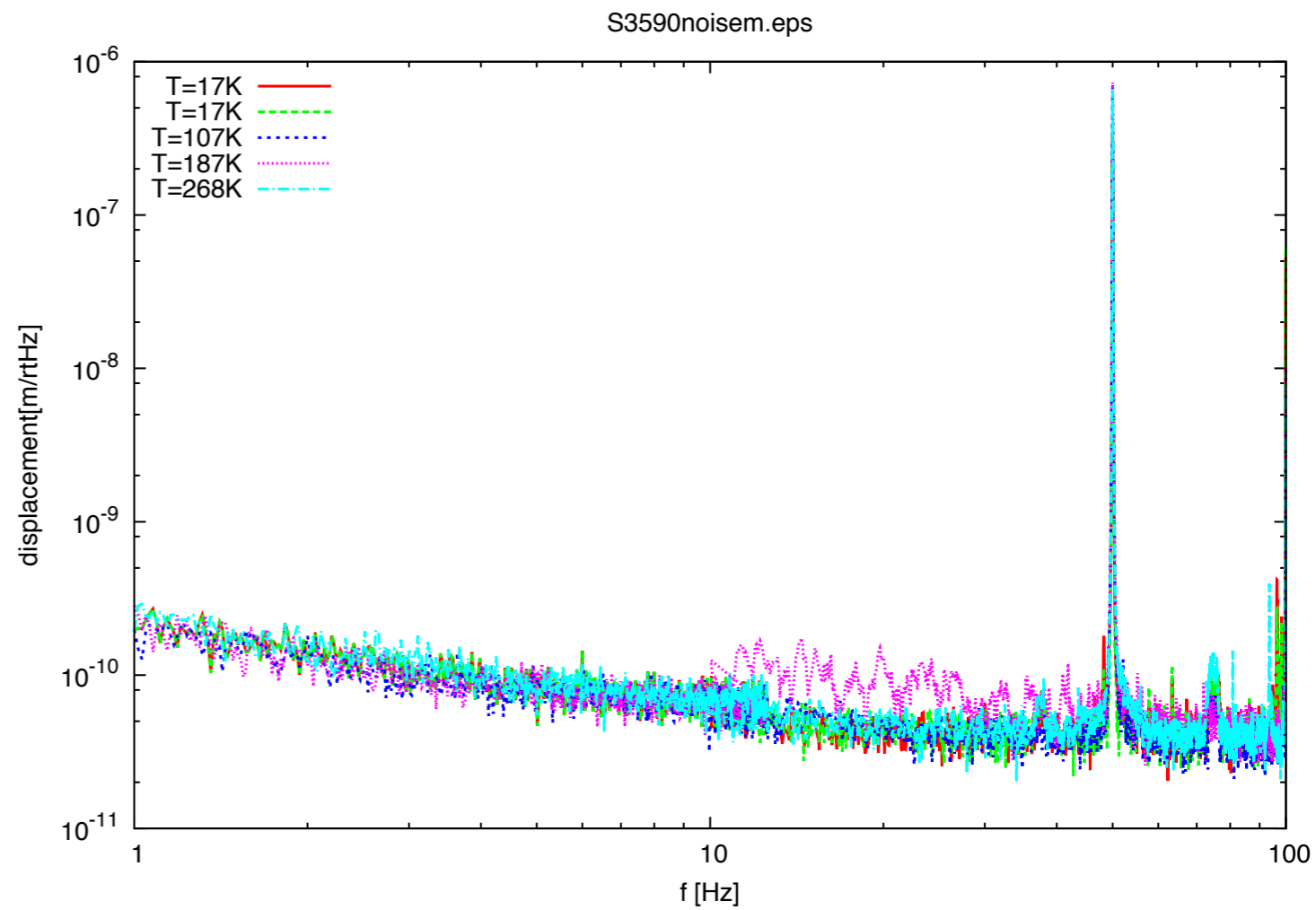
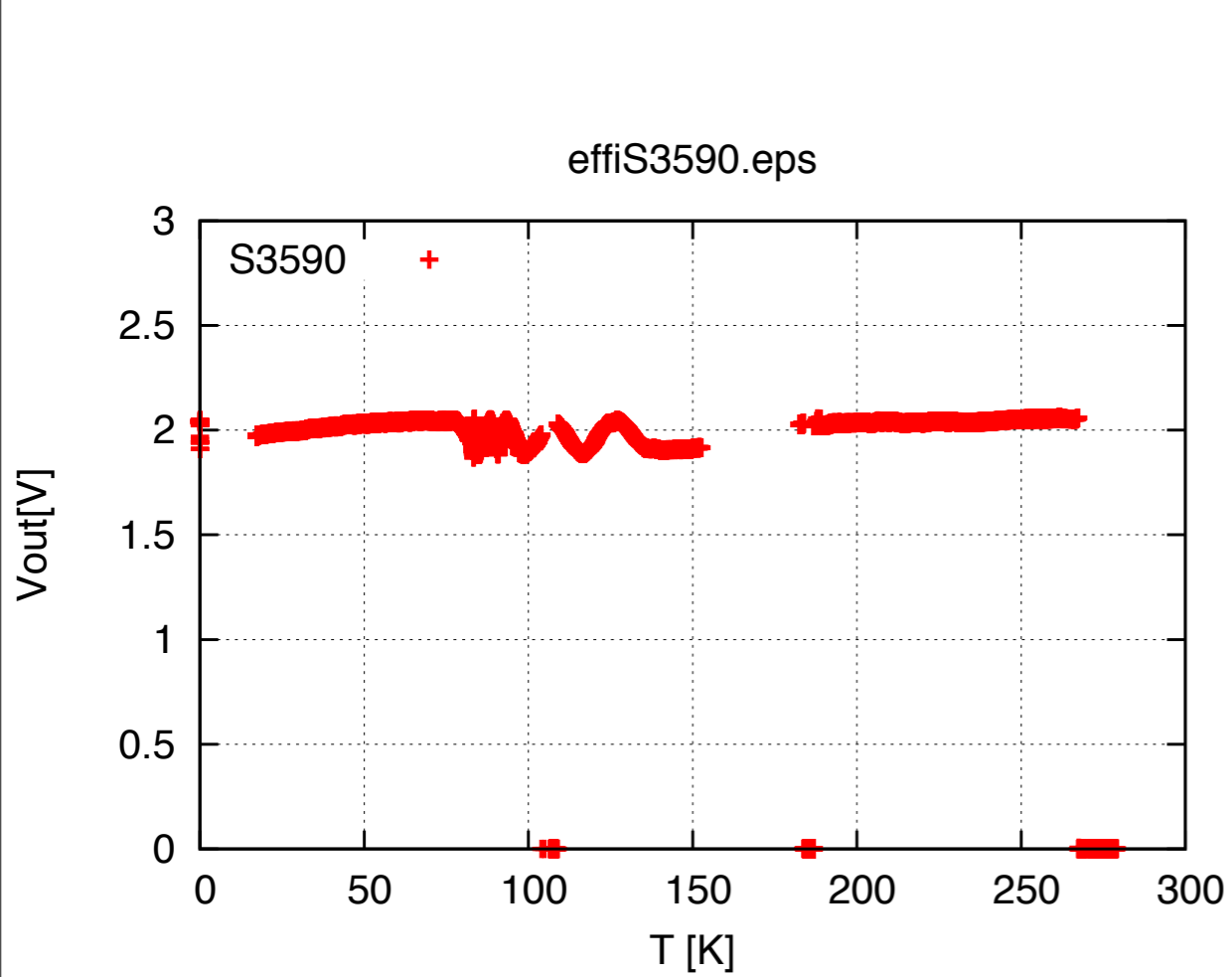
2014/4/28 Dan Chen

PD

Name	Type	Peak	We have	comment	Status	size [mm]
S1223-01	Si PIN PD	960 nm	5	We had a cooling test. Efficiency decreases at low T (37%)	Test: done Analysis: done	3.6* 3.6
G8370-01	InGaAs PIN PD	1550 nm	0	Tomaru-san said this works at low T. I asked a quotation but it was out of stock.	-	
FGA21	InGaAs Pin PD	1600 nm	2	The quantum efficiency decreases at low T(15%).	Test: done Analysis: done	phi=2
FDG03	Ge PD	1550 nm	2	We ordered. ThourLab said it works at low T.	Test: done Analysis: done	phi=3
S3590	Si PIN PD	980 nm	2	We can order. But LED doesn't work.	Test: done Analysis: done	10* 10

<PD>

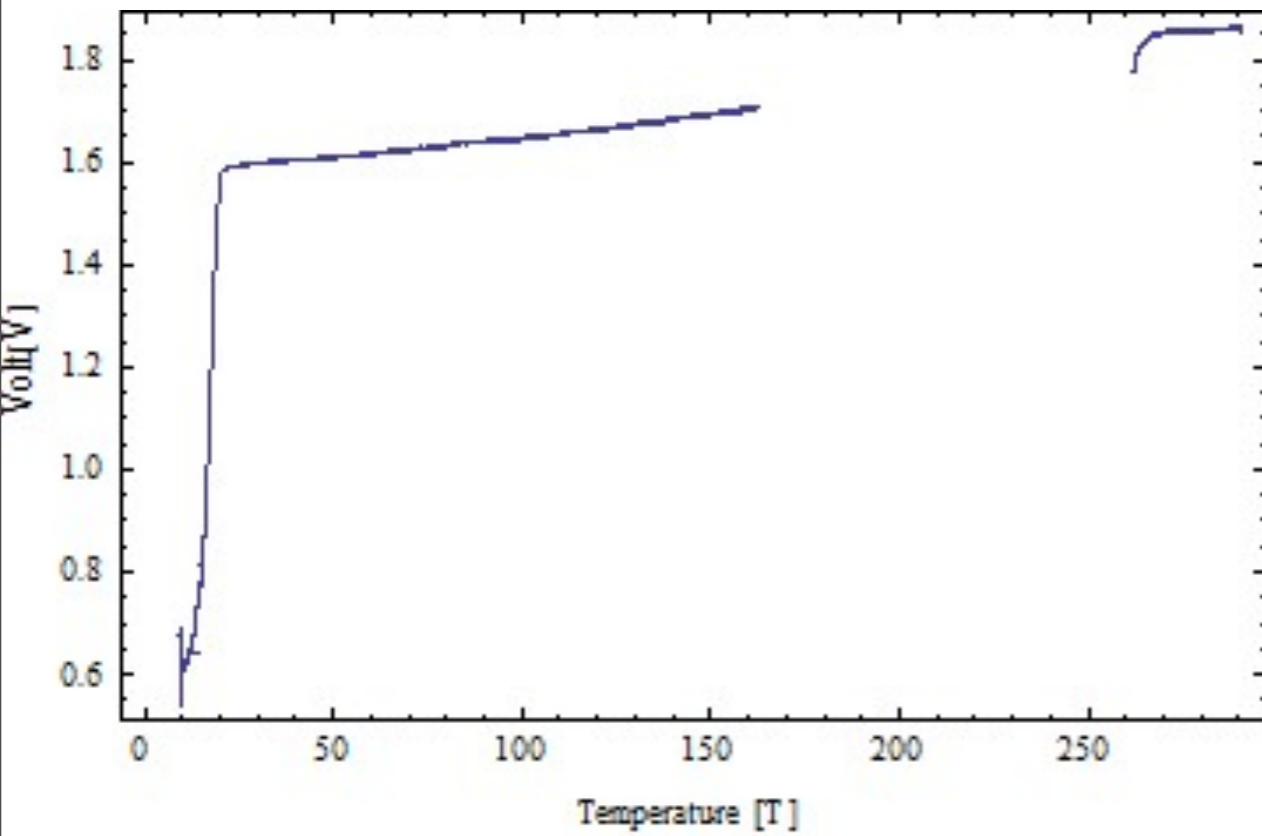
S3590



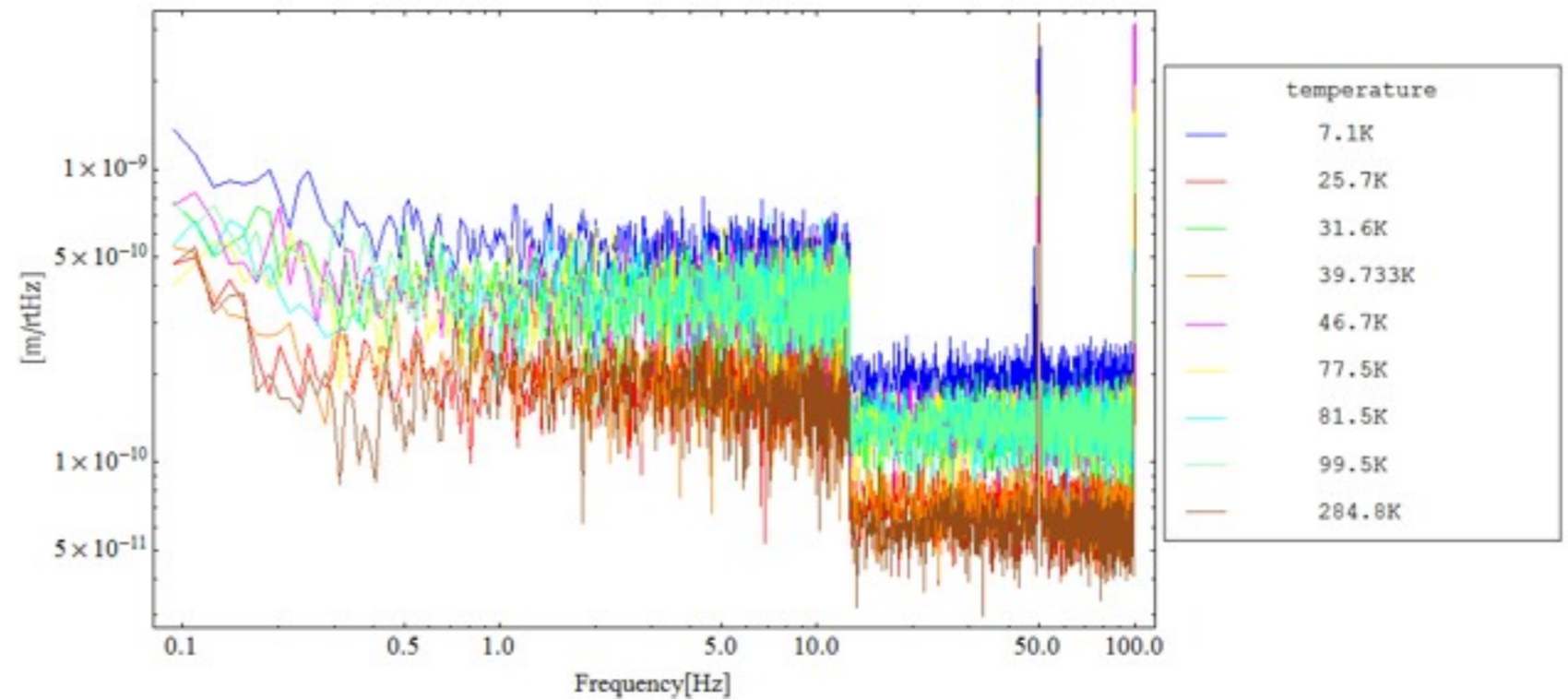
limited by circuit noise

<PD>

S1223

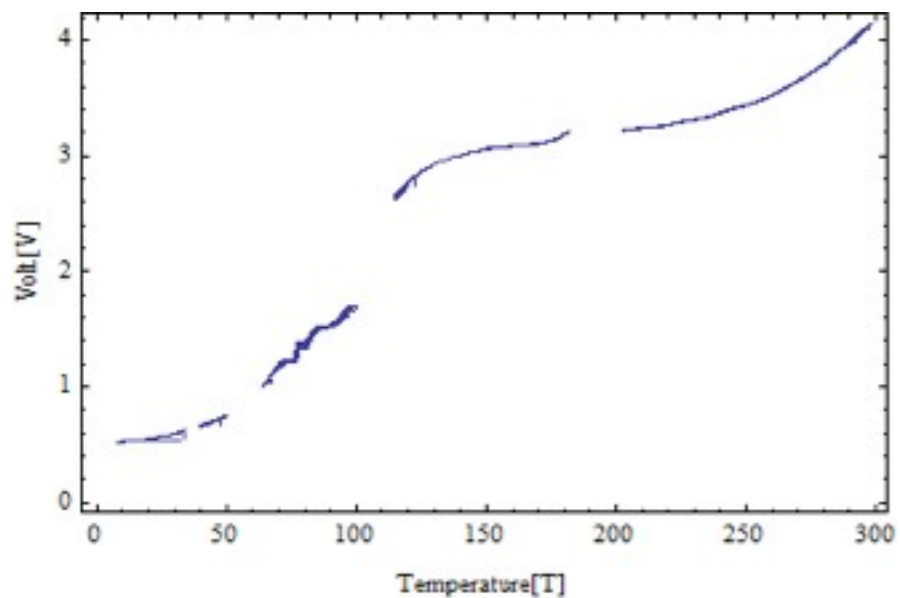


S1223

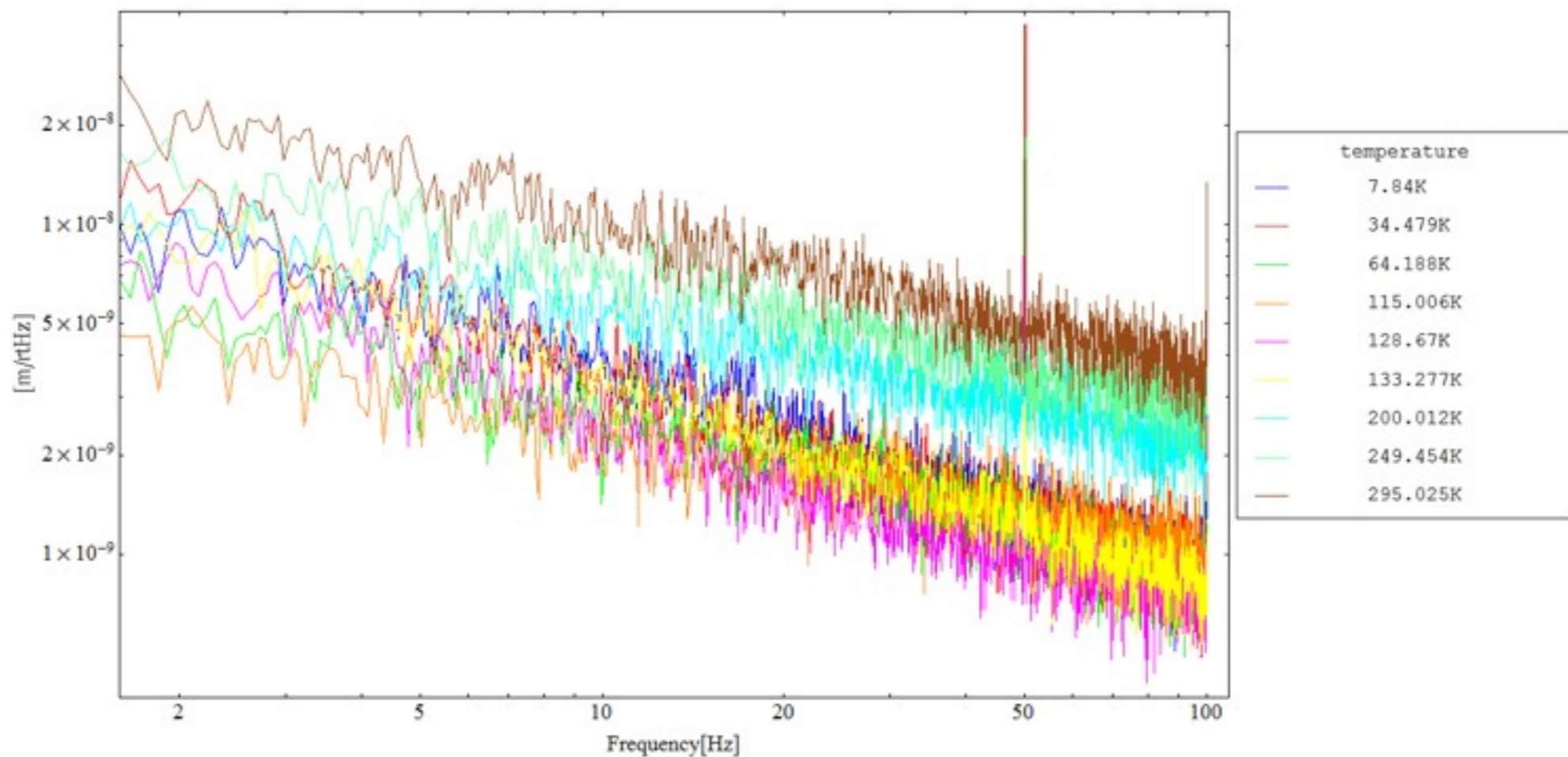


<PD>

FGA21

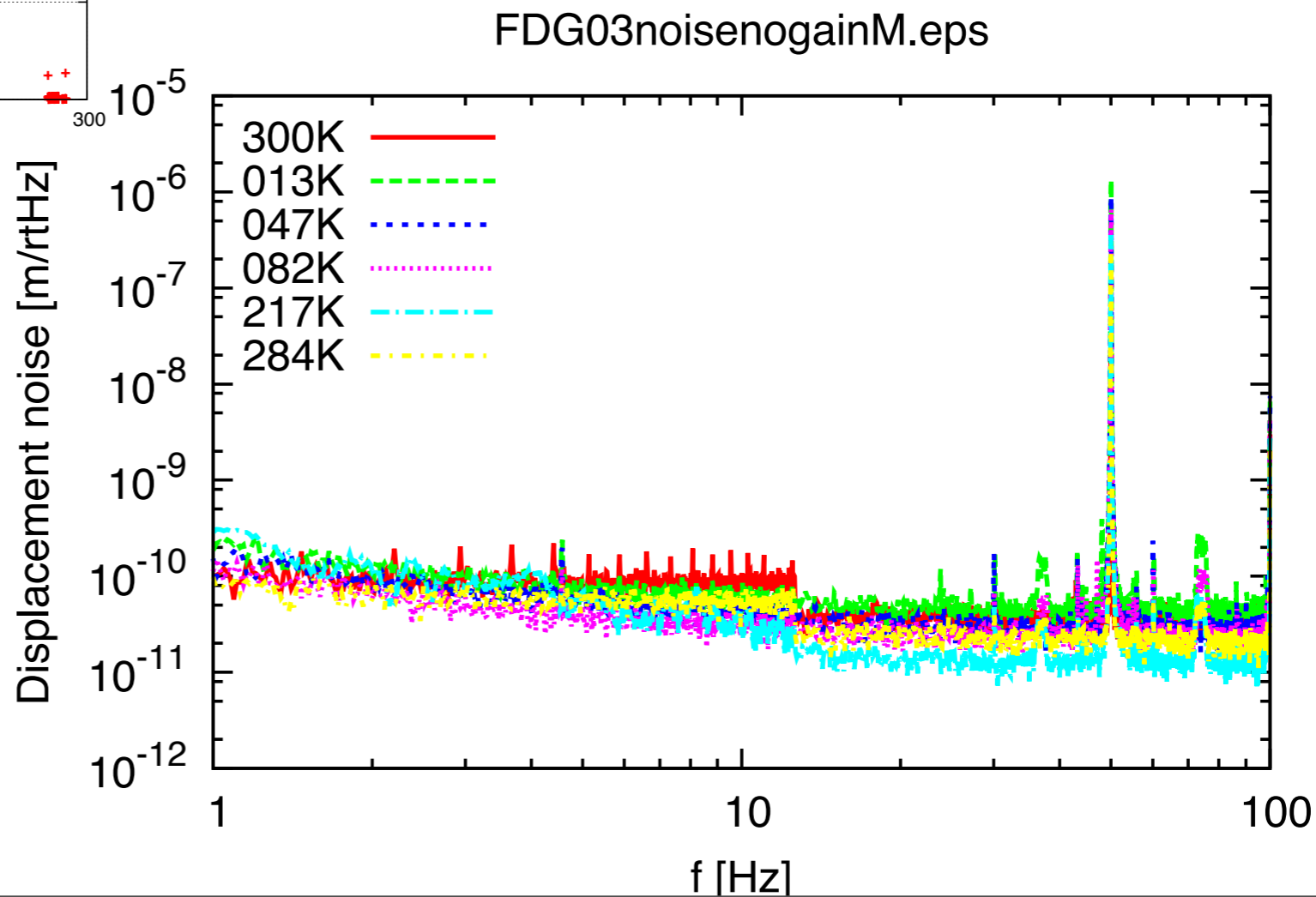
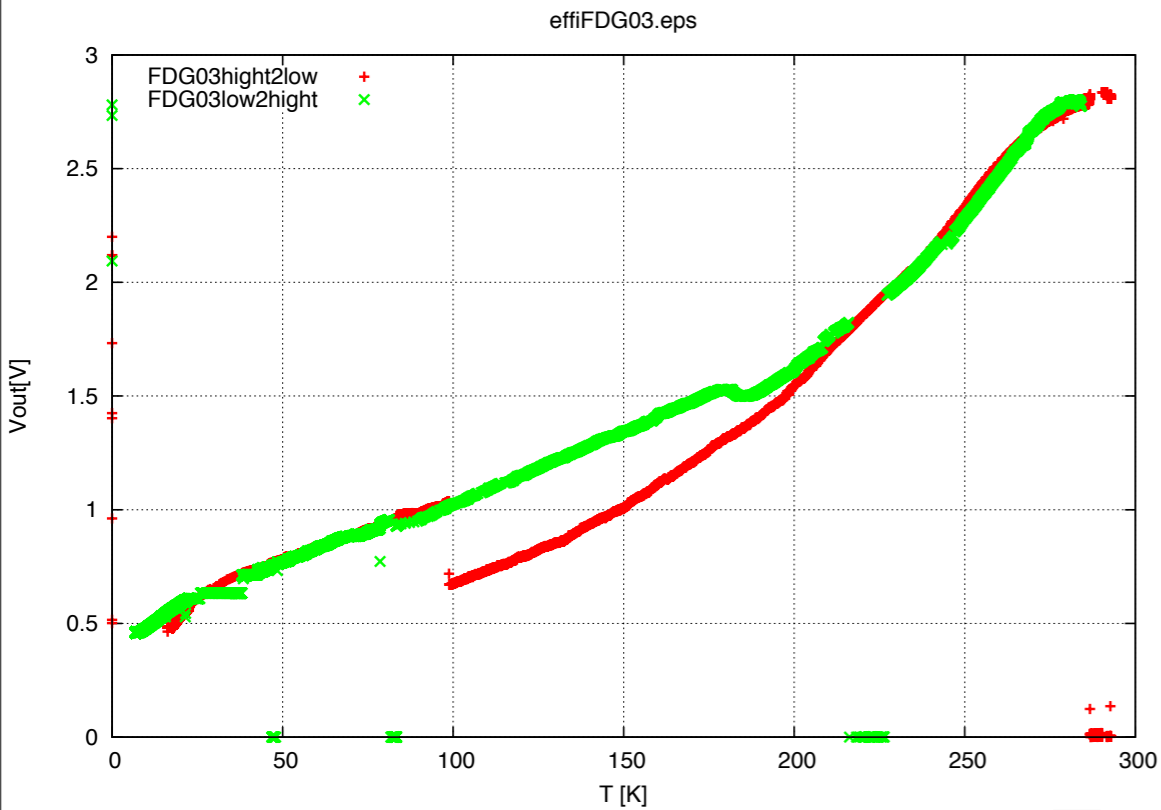


FGA21



<PD>

FDG03



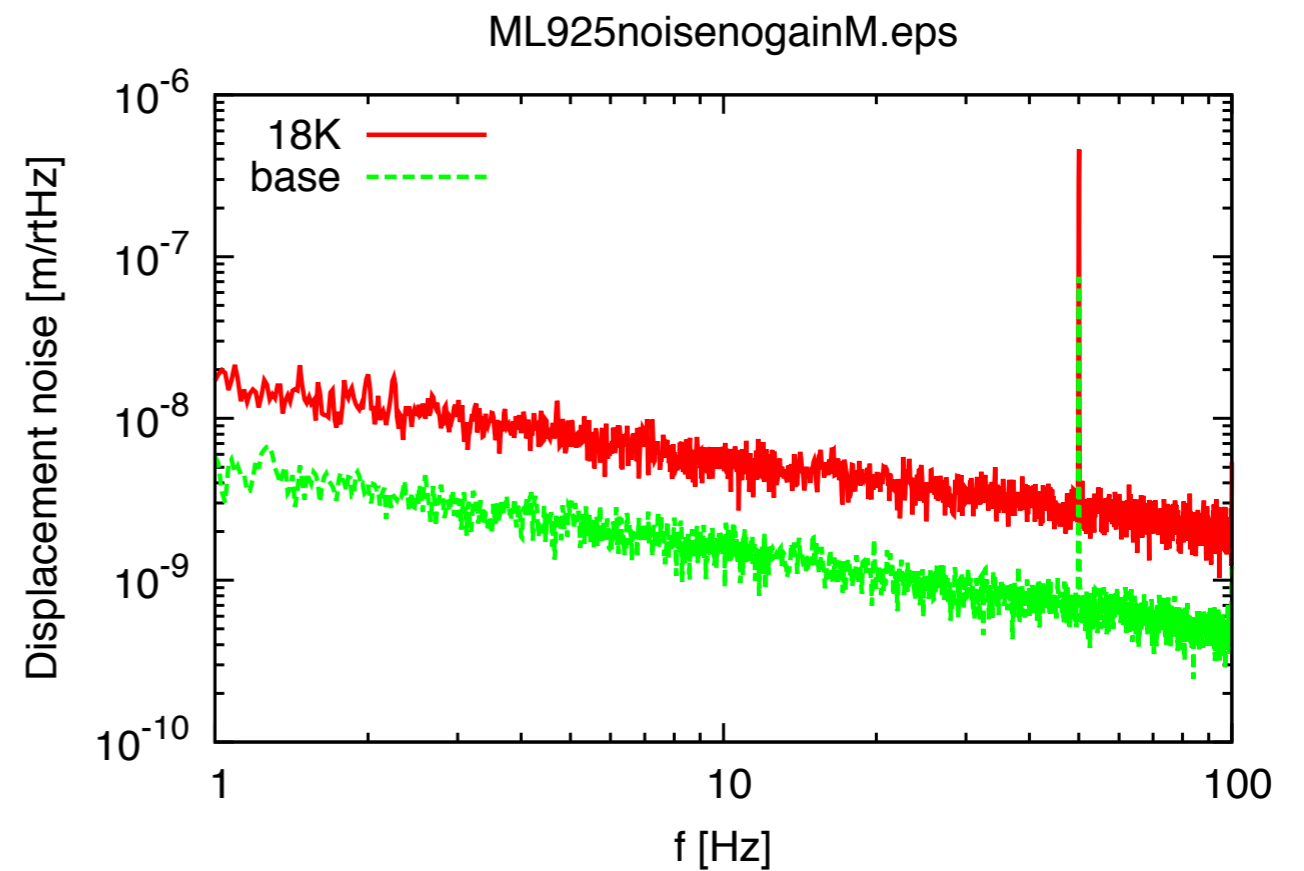
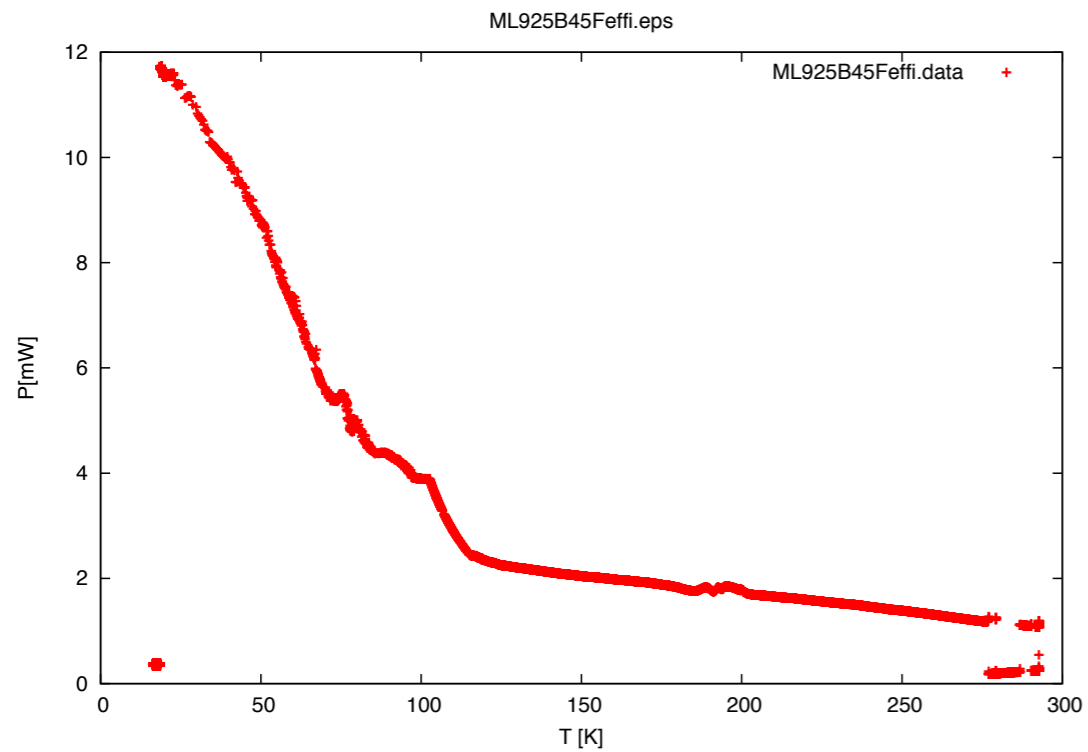
LED

Name	Type	Peak	Number we have in ICRR	comment	Status
OP232	GaAlAs	890 nm	5	This is used in OSEM at room temperature.	Test: done Analysis: done
L2656-0 3	GaAlAs	890 nm	20	Tomaru-san said this works at low T. I received.	Test: done Analysis: not yet
ML925 B45F	InGaAsP	1550 nm	2		Test: done Analysis: done

<LED>

ML925B45F

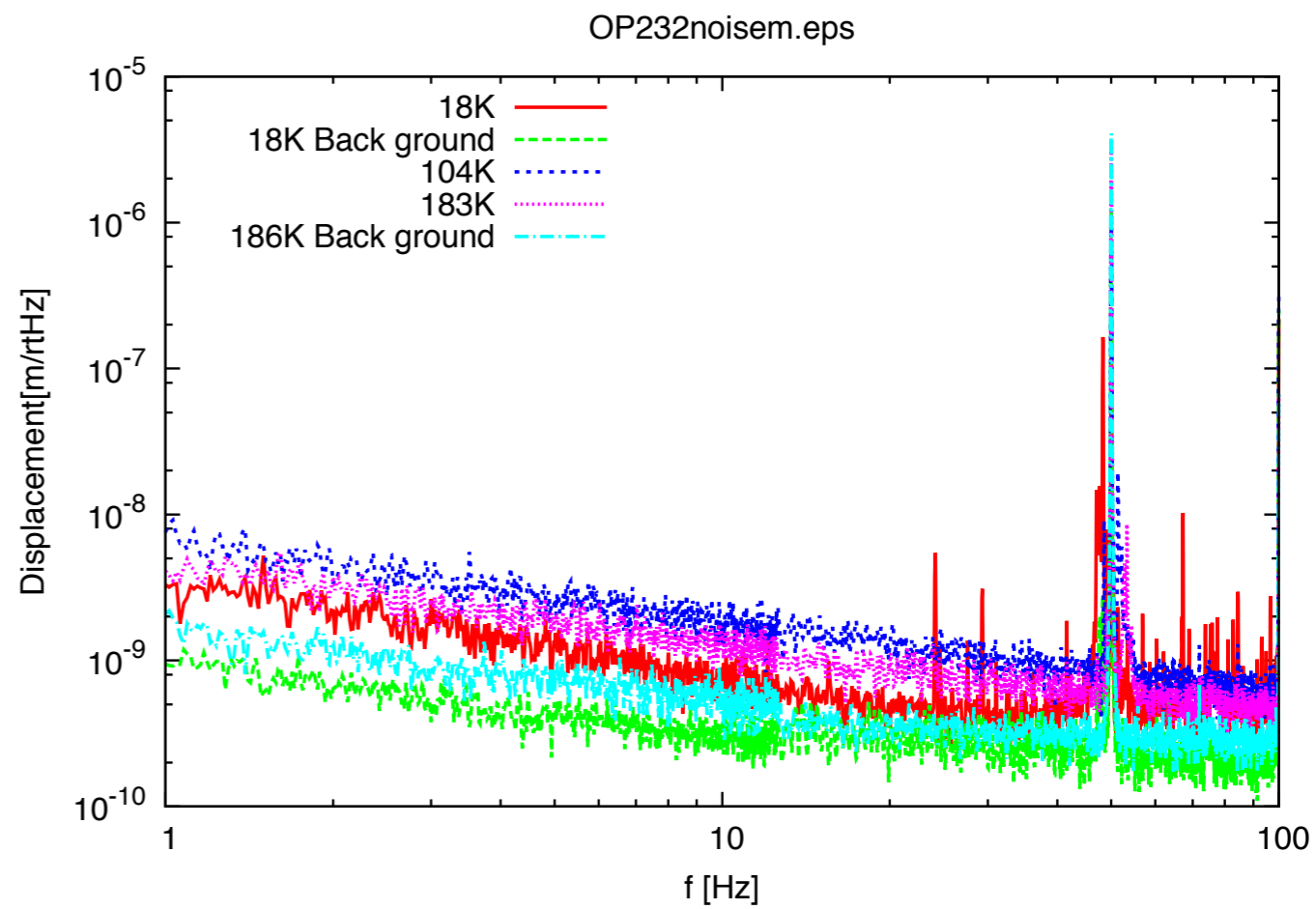
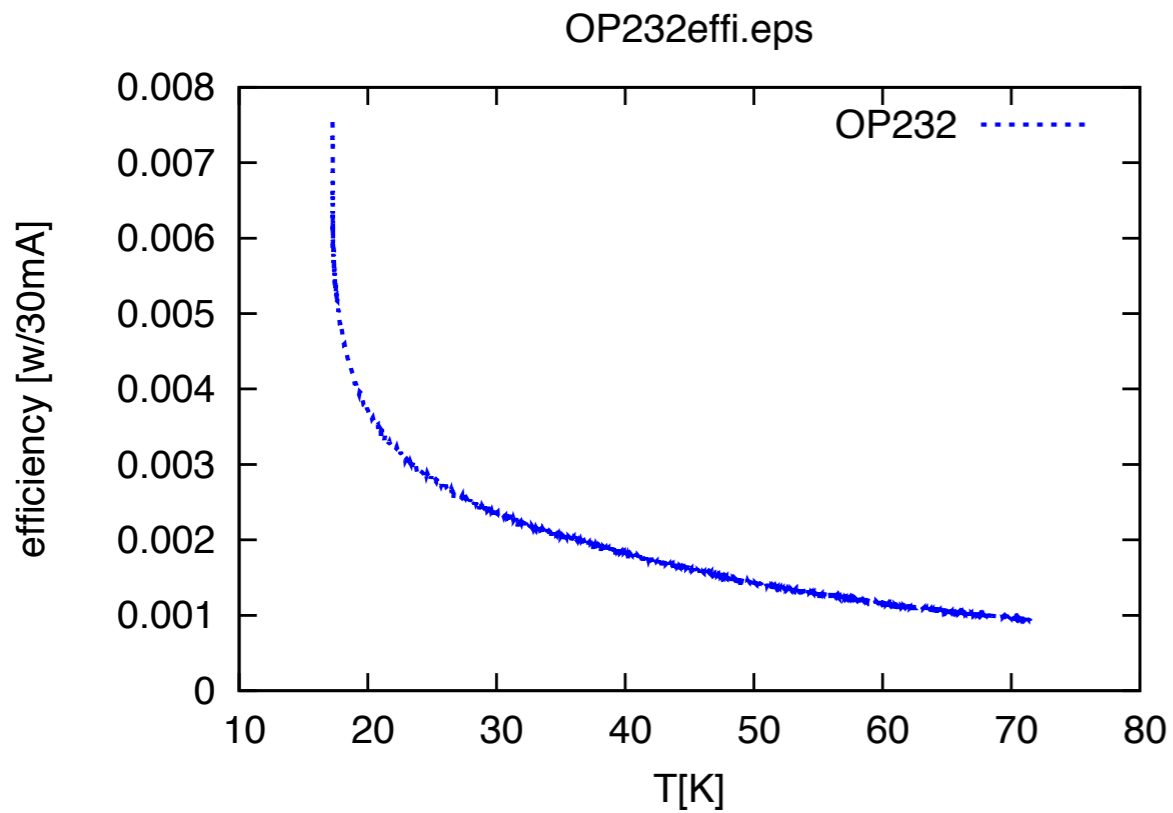
PD=FGA21



<LED>

OP232

PD=S1223

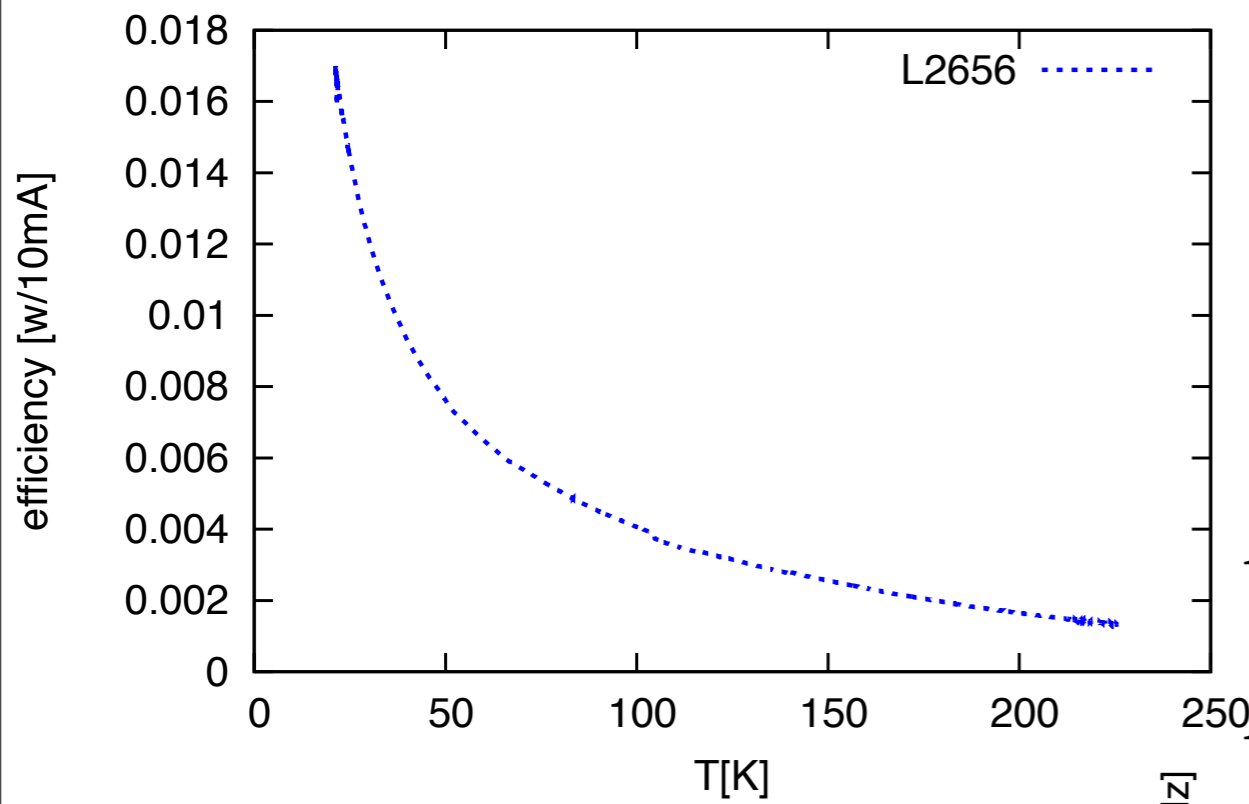


<LED>

L2656

PD=S1223

L2656effi.eps



L2656nosiem.eps

