



# Certificate of Calibration

Calibration and Voltage Plateau

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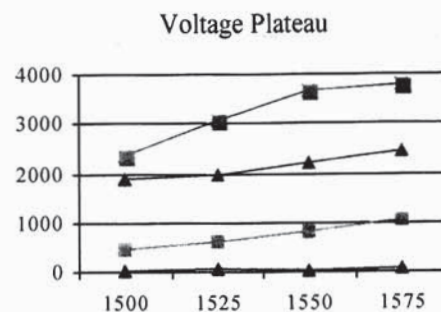
Meter: Manufacturer: Ludlum Model Number: 2360 Serial Number: 278586  
Detector: Manufacturer: Ludlum Model Number: 43-37 Serial Number: PR216982

☒ Mechanical Check ☒ THR/WIN Operation HV Check (+/- 2.5%): ☒ 500 V ☒ 1000 V ☒ 1500 V  
☐ F/S Response Check ☒ Reset Check Cable Length: ☐ 39-inch ☐ 72-inch ☒ Other: 60"  
☒ Geotropism ☒ Audio Check  
☒ Meter Zeroed ☒ Battery Check (Min 4.4 VDC) Alpha Threshold: 100 mV Barometric Pressure: 24.33 inches Hg  
Source Distance: ☒ Contact ☐ 6 inches ☐ Other: Beta Threshold: 4 Temperature: 75 °F  
Source Geometry: ☐ Side ☒ Below ☐ Other: Beta Window: 40 mV Relative Humidity 20 %

Instrument found within tolerance: ☒ Yes ☐ No.

Range/Multiplier	Reference Setting	"As Found Reading"	Meter Reading	Integrated 1-Min. Count	
				$\alpha$	$\beta$
x 1000	400 Kcpm	400	400	399312	399321
x 1000	100 Kcpm	100	100		
x 100	40 Kcpm	400	400	39940	39943
x 100	10 Kcpm	100	100		
x 10	4 Kcpm	400	400	3995	3995
x 10	1 Kcpm	100	100		
x 1	400 cpm	400	400	400	399
x 1	100 cpm	100	100		

High Voltage	Alpha Source		Beta Source		Background	
	$\alpha$	$\beta$	$\alpha$	$\beta$	$\alpha$	$\beta$
1500	1972	1270	79	2880	55	493
1525	2086	1390	125	3700	91	618
1550	2249	1523	115	4496	50	828
1575	2546	2005	102	4889	82	1085



Comments: HV Plateau Scaler Count Time = 1 min. Recommended HV = 1550 @ 5200'

## Reference Instruments and/or Sources:

Ludlum pulser serial number: ☐ 97743 ☒ 201932

Fluke multimeter serial number ☒ 87490128

☒ Alpha Source: Th-230 (s/n 4098-03) 12,800 dpm on 1/4/12

☐ Gamma Source Cs-137 @ 5.2 uCi (1/4/12) sn: 4097-03

☒ Beta Source: Th-230 (sn: 4099-03) 17,700 dpm on 1/4/12

☐ Other Source:

Calibrated By:

Calibration Date: 3-22-17

Calibration Due: 3-22-18

Reviewed By:

Date: 3/22/17

ERG Form ITC. 101.C

This calibration conforms to the requirements and acceptable calibration conditions of ANSI N323.A - 1997