

06-20957-01

**Bridgeport Hospital --- Radiation Safety Office
Ludlum Model 2200 Calibration & Ba-133 Leak Test**

Instrument: Ludlum Model 2200 with Model 243 NaI Well Wipe Test Date: 05-Sep-13
Serial No: 51568
Settings: HV Setting: 282 (~700 V)
Window: 250
Threshold: 250 168

Sealed Source: Ba-133 Dose Cal Ref. Source - Ser. No.: BM-0633-0062
Ba-133 Dose Cal Ref. Source - Ser. No.: 168-192

Ba-133 STD: 0.1041 uCi @ 01-Mar-02
Serial No.: NEN 0.0487 uCi @ 05-Sep-13
T1/2 = 10.5 years

Count No.	BKG	Std Rod	Ba-133 BM	Ba-133 168	MDA @ 4.66 St. Dev.
1	168	38,023	144	171	1.02E-04 uCi
2	162	37,874	162	130	225.5 dpm
3	136	38,519	136	141	MDA @ 2 St. Dev.
Average:	155.3	38,139	147	147	4.36E-05 uCi
St. Dev.:	17.0	337.7	13.3	21.2	96.8 dpm
Model 2200 Calibration:					
			780,339	cpm/uCi @	Cs-137 Efficiency
			2.8	dpm/net cpm	
			Ba-133 BM	Ba-133 168	

Wipe Test Result: Ba-133 BM Ba-133 168
-1.03E-05 -1.03E-05 uCi
-22.8 -22.8 dpm
<MDA <MDA %NRC Standard (0.005 uCi)
Leak Test Passed Leak Test Passed

Leak Test By:



Michael J. Benhan
RSO / Medical Health Physicist

REC'D IN LAT 10-21-13

NMSS/RGN1 MATERIALS-002

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