

Component No 5962-9689202VJA		Component Designation: AD565AT	Irradiation Spec. No.: ESCC 22900 Issue 4
Gen. Spec.: MIL-PRF-38535 Det. Spec.: 5962-96892 Amend.: --		Evaluation: X Acceptance Wafer: - Acceptance Lot: -	Project/Programme: LDT (ESA) AO / 1-6172 / 09 / F / WE
Family: 08	Group: 62	Functional Assignment: 12-BIT DAC	Package: DIL-24
Manuf.Name: ANALOG DEVICES Address: USA		Test House: ATN Address: SEVILLA (SPAIN)	Orig.house: ATN Address: SEVILLA (SPAIN)
Radiation Test Plan No.: ATGSP-RP-69 Iss1		Sample Size: 22 Irradiation Devices: 20 Control Devices: 2	Date Code: 9750A Wafer Lot: M10042
Radiation Source: Cobalt-60 Facility Name: ESA (ESTEC) Address: NOORDWIJK (HOLLAND)		Energy: 1.33/1.17 MeV Dose Rate: 35.4 & 323.7 rad(Si)/h	Interest level: 100krad(Si) Maximum Test Level: 100krad(Si)
Irradiation Conditions: Biased: X (10 samples) Unbiased: X (10 samples) Test Circuit: Figure 1		Irradiation Measurements Interval: Remote test: X In situ Test: --	Annealing Tests: 24h@25°C, 168h@100°C Biased: X (10 samples) Unbiased: X (10 samples) Test Circuit: Figure 1

Electrical Measurements. Parameters Tested:

RA, DNL, AE, V_{OS}, BPZE, V_{REF}, I_{OUT_UNI}, I_{OUT_BIP}, PSRR₁, PSRR₂, I_{CC}, I_{EE}, I_{IH}, I_{IL}

Prepared by.: Antonio Romero Mallén
Date: 2012/11/12
Signature:



Approved by.: Eugenio Muñoz Plaza
Date: 2012/11/12
Signature:

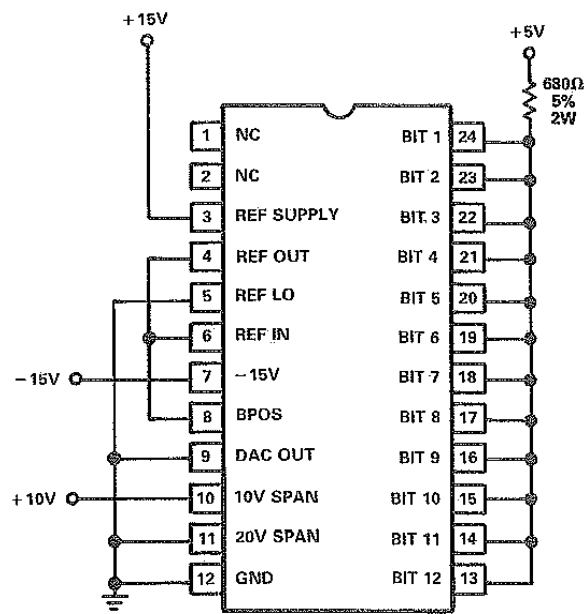


	TOTAL DOSE RADIATION TEST REPORT No. ATN-RR-012/2012	Issue: 2/Rev:	Page: 2/9
		Date: 2012/11/12	
		R.L: 2011902919 / 2011902920	

DOCUMENT CHANGE CONTROL

Edition / Revision	Date	Affected Edition / Revision	Affected Paragraph / Modification
ATN-RR-012/2012 Iss.1	2012/10/26	--	First edition of this document.
ATN-RR-012/2012 Iss.2	2012/11/12	ATN-RR-012/2012 Iss.1	Footer on the pages updated with new issue of document format. Test house name updated.

FIGURE 1.-RADIATION BIAS CIRCUITS



Notes:

1. Ten parts(5 ELDR+5 LDR) were irradiated biased ON, in accordance with the radiation bias circuit shown in Figure 1.
2. Ten parts(5 ELDR+ 5 LDR) were irradiated biased OFF: the pins are short circuited and connected to ground.

SUMMARY

In order to evaluate the behaviour of the samples between ELDR, LDR, ON and OFF biased, a total dose steady-state irradiation test has been carried out on a 12-BIT DAC, manufactured by Analog Devices, USA. The test was performed using two dose rate (35.4 rad(Si)/h and 323.7rad (Si)/h) until a total accumulated dose of 100krad(Si). The irradiated parts were labelled as follows:

Serial Number		Bias condition	Dose rate
R1	377	Control device	ELDR
R2	378	ON	
R3	379		
R4	380		
R5	381		
R6	382		
R7	383	OFF	
R8	384		
R9	385		
R10	386		
R11	387		
R1	365	Control device	LDR
R2	366	ON	
R3	367		
R4	368		
R5	369		
R6	370		
R7	371	OFF	
R8	372		
R9	373		
R10	375		
R11	390		

DEVIATION TO PLAN

The PSRR1 y PSRR2 with VREF=FS1/2 have been added to the RVT test.

RESULTS

The next table shows a resume of the irradiation test results.

ELDR									
	0krad	6krad	13krad	20krad	30krad	50krad	100krad	ANN24	ANN168
RA	PASS	PASS	(1)	(1)	(1)	(1)	(1)	(1)	(1)
DNL	PASS	PASS	(1)	(1)	(1)	(1)	(1)	(1)	(1)
AE	PASS	PASS	PASS	PASS	(1)	(1)	(1)	(1)	(1)
V _{OS}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
BPZE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
V _{REF}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{OUT_UNI}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{OUT_BIP}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
PSRR ₁	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
PSRR ₂	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{CC @11.4V}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{CC @16.5V}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{EE @11.4V}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{EE @16.5V}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{IH}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{IL}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
LDR									
	0krad	6krad	13krad	20krad	30krad	50krad	100krad	ANN24	ANN168
RA	PASS	PASS	PASS	(1)	(1)	(1)	(1)	(1)	(1)
DNL	PASS	PASS	(1)	(1)	(1)	(1)	(1)	(1)	(1)
AE	PASS	PASS	PASS	PASS	PASS	(1)	(1)	(1)	PASS
V _{OS}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
BPZE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
V _{REF}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{OUT_UNI}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{OUT_BIP}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
PSRR ₁	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
PSRR ₂	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{CC @11.4V}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{CC @16.5V}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{EE @11.4V}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{EE @16.5V}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{IH}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
I _{IL}	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

(1) Parameter out of limits.

The values measured and graphs with the evolution of the previous parameters during the irradiation test and annealing sequence are available in ANNEX I.

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CONCLUSION

The results obtained during the irradiation test, show that this lot is sensitive to the cumulative radiation dose when tested at dose rates of 35.4 rad(Si)/h and 323.7 rad(Si)/h up to a cumulative dose of 100krad(Si).

The most affected parameters are the DNL and AE that starts to be out of limits at 13krad step and RA that starts to be out of limits at 30krad step.

In general, the samples biased OFF show a higher degradation than the samples biased ON.

ATNF141.B

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SCHEDULE

ELDR Average Dose Rate (1) rad(Si)/h	LDR Average Dose Rate (2) rad(Si)/h	Cummulative ELDR Total Dose krad(Si)	ELDR Measurement date	Cummulative LDR Total Dose krad(Si)	LDR Measurement date	Step Deviation ELDR vs LDR (%)
--	--	0	2012/02/15	0	2012/06/04	--
35.41	323.7	5240	2012/02/21	5707	2012/06/05	8.9
		12168	2012/02/29	13362	2012/06/06	9.8
		19201	2012/03/08	20644	2012/06/07	7.5
		28612	2012/03/19	28167	2012/06/08	-1.5
		48417	2012/04/11	48498	2012/06/11	0.1
		106074	2012/06/18	102360	2012/06/18	-3.7
Annealing						
ann24h @25°C	24	--	2012/06/19	--	2012/06/19	
ann168h @100°C	168	--	2012/06/26	--	2012/06/26	

(1) The minimum and maximum dose rate registered were 18.6rad (Si)/h and 38.9rad (Si)/h respectively.

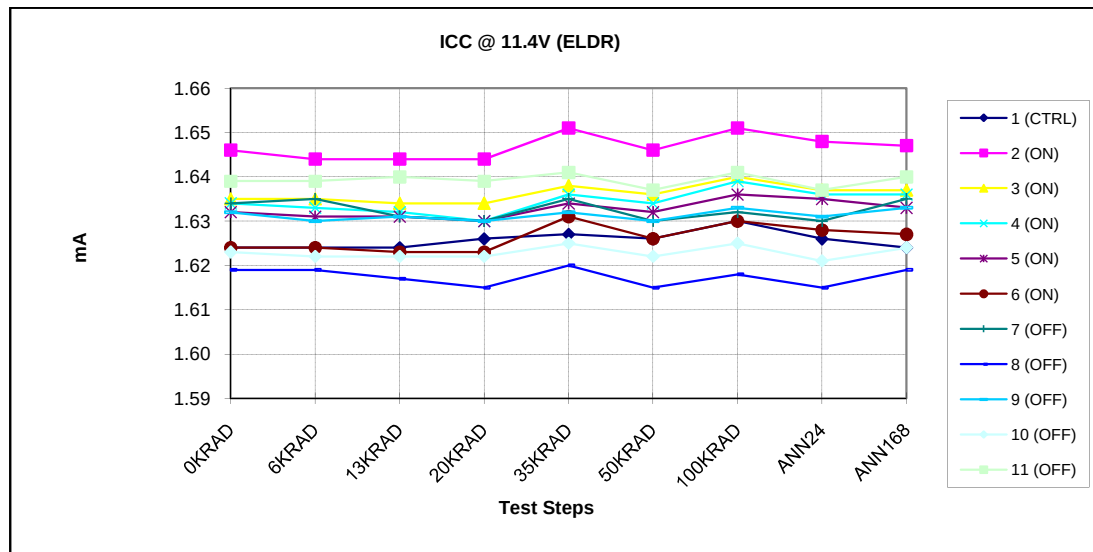
(2) The minimum and maximum dose rate registered were 271.2 rad(Si)/h and 360.6 rad(Si)/h respectively.

ELECTRICAL MEASUREMENTS EQUIPMENT LIST

REF INVENT	DESCRIPTION	MFR	MODEL	CALIBRATION DUE	USAGE
LE0124.000	UNIVERSAL TEST SYSTEM	SZ	M-3000	2012/08/15	0,6,13,20,35,50,100Krad, ANN24, ANN168
N/A (Note1)	TEST ADAPTER	SZ	UNIVERSAL FRONT ADAPTER	--	0,6,13,20,35,50,100Krad, ANN24, ANN168
LE0080.015	MATRIX	SZ	SMX32B	--	0,6,13,20,35,50,100Krad, ANN24, ANN168
LE0351.000	MULTIMETER	KEITHLEY	2001	2012/09/26	0,6,13,20,35,50,100Krad, ANN24, ANN168

Note 1: This part type was measured with a Universal Test Adapter with serial number 913842 propriety of ESA.

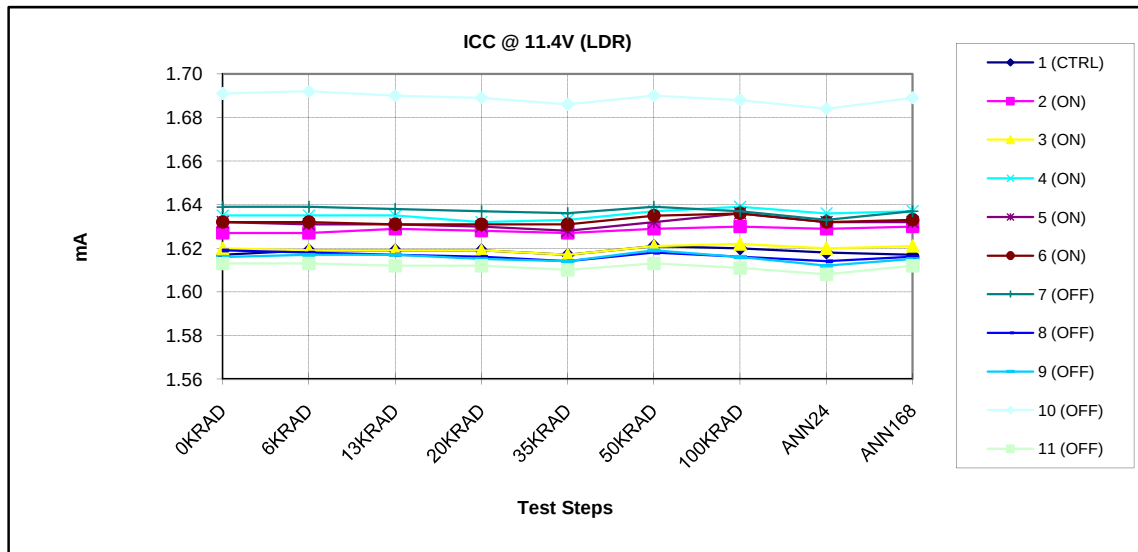
ANNEX I ELECTRICAL MEASUREMENTS GRAPHS



ICC @ 11.4V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	1.62	1.62	1.62	1.63	1.63	1.63	1.63	1.63	1.62

Bias on results									
2 (ON)	1.65	1.64	1.64	1.64	1.65	1.65	1.65	1.65	1.65
3 (ON)	1.64	1.64	1.63	1.63	1.64	1.64	1.64	1.64	1.64
4 (ON)	1.63	1.63	1.63	1.63	1.64	1.63	1.64	1.64	1.64
5 (ON)	1.63	1.63	1.63	1.63	1.63	1.63	1.64	1.64	1.63
6 (ON)	1.62	1.62	1.62	1.62	1.63	1.63	1.63	1.63	1.63
Statistics bias on									
min result	1.62	1.62	1.62	1.62	1.63	1.63	1.63	1.63	1.63
max result	1.65	1.64	1.64	1.64	1.65	1.65	1.65	1.65	1.65
average	1.63	1.63	1.63	1.63	1.64	1.63	1.64	1.64	1.64
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

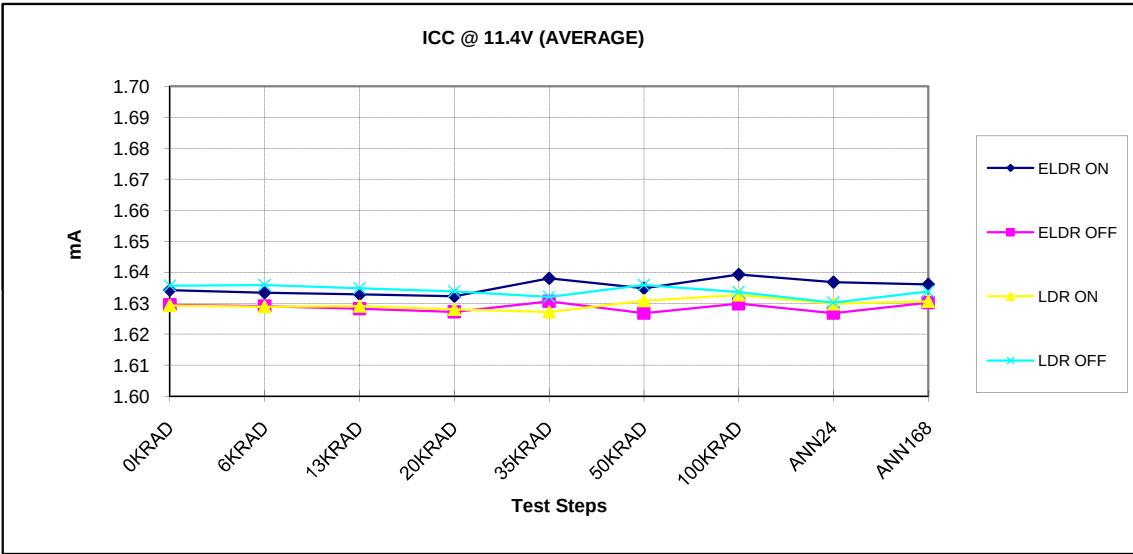
Bias off results									
7 (OFF)	1.63	1.64	1.63	1.63	1.64	1.63	1.63	1.63	1.64
8 (OFF)	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
9 (OFF)	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
10 (OFF)	1.62	1.62	1.62	1.62	1.63	1.62	1.63	1.62	1.62
11 (OFF)	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
Statistics bias off									
min result	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
max result	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
average	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



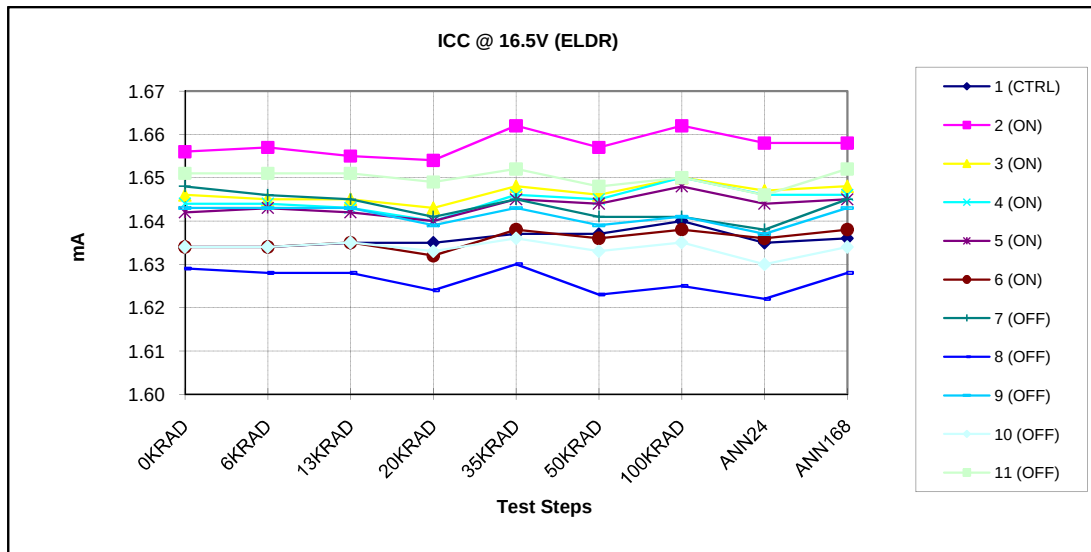
ICC @ 11.4V (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	1.617	1.619	1.619	1.619	1.617	1.621	1.62	1.618	1.617

Bias on results									
2 (ON)	1.627	1.627	1.629	1.628	1.627	1.629	1.63	1.629	1.63
3 (ON)	1.62	1.619	1.619	1.619	1.617	1.621	1.622	1.62	1.621
4 (ON)	1.635	1.635	1.635	1.632	1.633	1.637	1.639	1.636	1.637
5 (ON)	1.632	1.631	1.631	1.63	1.628	1.632	1.636	1.632	1.632
6 (ON)	1.632	1.632	1.631	1.631	1.631	1.635	1.636	1.632	1.633
Statistics bias on									
min result	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
max result	1.64	1.64	1.64	1.63	1.63	1.64	1.64	1.64	1.64
average	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Bias off results									
7 (OFF)	1.639	1.639	1.638	1.637	1.636	1.639	1.637	1.633	1.637
8 (OFF)	1.619	1.618	1.617	1.616	1.614	1.618	1.616	1.614	1.616
9 (OFF)	1.616	1.617	1.617	1.615	1.614	1.619	1.616	1.612	1.615
10 (OFF)	1.691	1.692	1.69	1.689	1.686	1.69	1.688	1.684	1.689
11 (OFF)	1.613	1.613	1.612	1.612	1.61	1.613	1.611	1.608	1.612
Statistics bias off									
min result	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
max result	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.68	1.69
average	1.64	1.64	1.63	1.63	1.63	1.64	1.63	1.63	1.63
sigma	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03



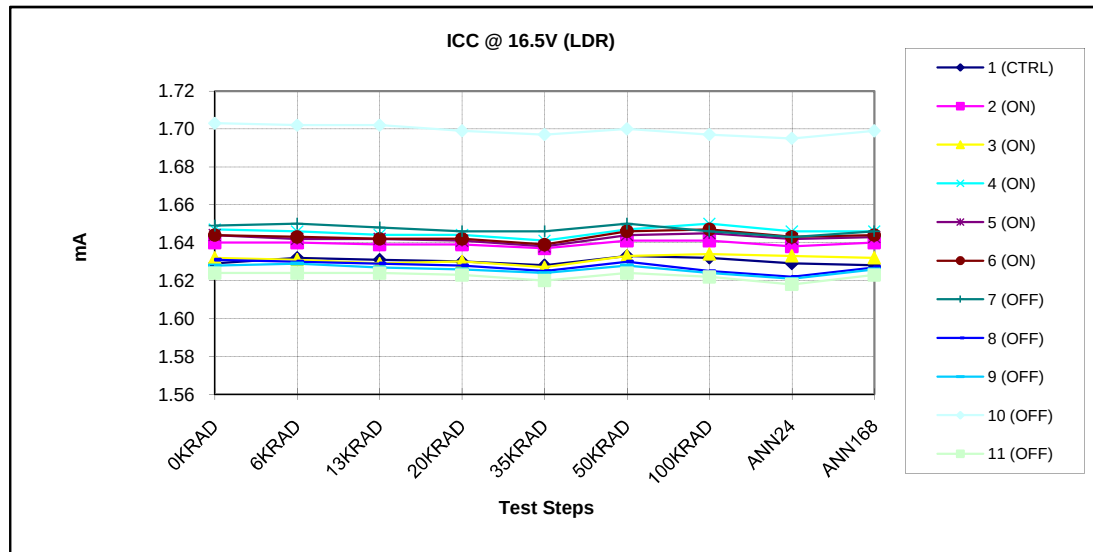
ICC @ 11.4V (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	1.634	1.633	1.633	1.632	1.638	1.635	1.639	1.637	1.636
ELDR OFF	1.629	1.629	1.628	1.627	1.631	1.627	1.630	1.627	1.630
LDR ON	1.629	1.629	1.629	1.628	1.627	1.631	1.633	1.630	1.631
LDR OFF	1.636	1.636	1.635	1.634	1.632	1.636	1.634	1.630	1.634



ICC @ 16.5V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	1.63	1.63	1.64	1.64	1.64	1.64	1.64	1.64	1.64

Bias on results									
2 (ON)	1.66	1.66	1.66	1.65	1.66	1.66	1.66	1.66	1.66
3 (ON)	1.65	1.65	1.65	1.64	1.65	1.65	1.65	1.65	1.65
4 (ON)	1.64	1.64	1.64	1.64	1.65	1.65	1.65	1.65	1.65
5 (ON)	1.64	1.64	1.64	1.64	1.65	1.64	1.65	1.64	1.65
6 (ON)	1.63	1.63	1.64	1.63	1.64	1.64	1.64	1.64	1.64
Statistics bias on									
min result	1.63	1.63	1.64	1.63	1.64	1.64	1.64	1.64	1.64
max result	1.66	1.66	1.66	1.65	1.66	1.66	1.66	1.66	1.66
average	1.64	1.64	1.64	1.64	1.65	1.65	1.65	1.65	1.65
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

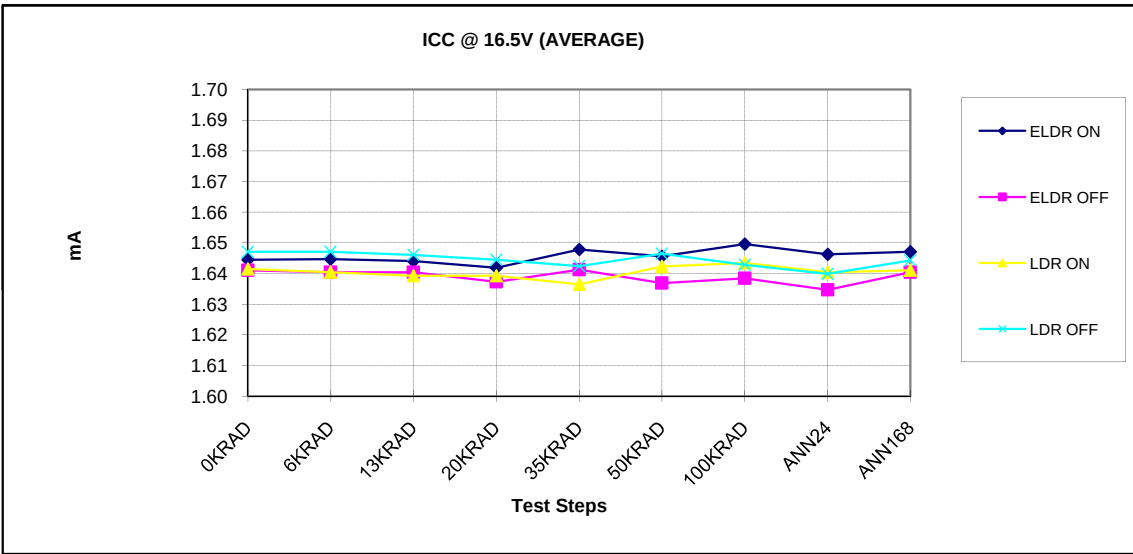
Bias off results									
7 (OFF)	1.65	1.65	1.65	1.64	1.65	1.64	1.64	1.64	1.65
8 (OFF)	1.63	1.63	1.63	1.62	1.63	1.62	1.63	1.62	1.63
9 (OFF)	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
10 (OFF)	1.63	1.63	1.64	1.63	1.64	1.63	1.64	1.63	1.63
11 (OFF)	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
Statistics bias off									
min result	1.63	1.63	1.63	1.62	1.63	1.62	1.63	1.62	1.63
max result	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
average	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.63	1.64
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



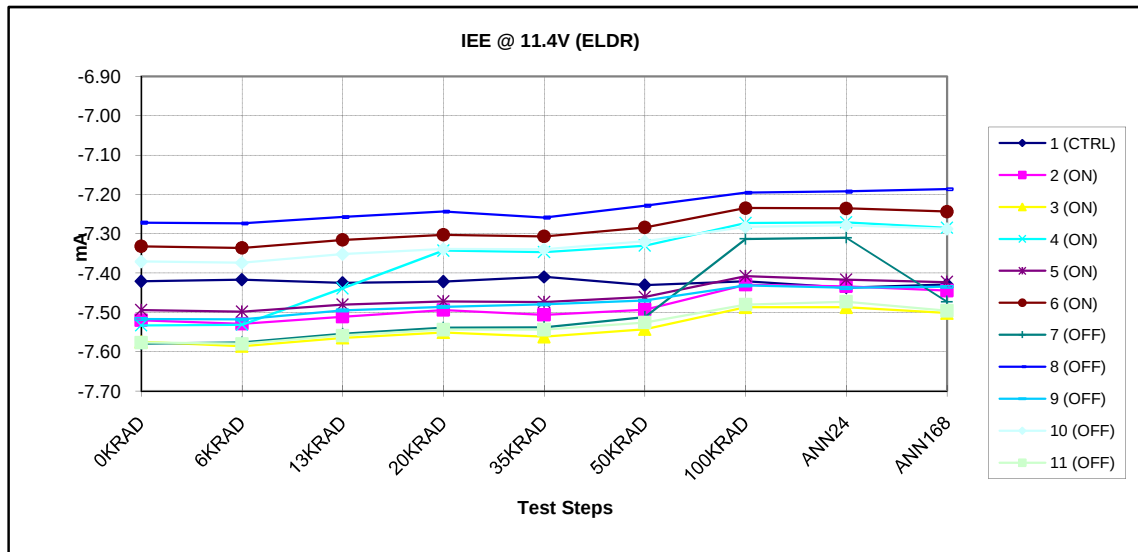
ICC @ 16.5V (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	5	5	5	5	5	5	5	5	5
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63

Bias on results									
2 (ON)	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
3 (ON)	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
4 (ON)	1.65	1.65	1.64	1.64	1.64	1.65	1.65	1.65	1.65
5 (ON)	1.64	1.64	1.64	1.64	1.64	1.64	1.65	1.64	1.64
6 (ON)	1.64	1.64	1.64	1.64	1.64	1.65	1.65	1.64	1.64
Statistics bias on									
min result	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
max result	1.65	1.65	1.64	1.64	1.64	1.65	1.65	1.65	1.65
average	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Bias off results									
7 (OFF)	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.64	1.65
8 (OFF)	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.62	1.63
9 (OFF)	1.63	1.63	1.63	1.63	1.62	1.63	1.62	1.62	1.63
10 (OFF)	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
11 (OFF)	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
Statistics bias off									
min result	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
max result	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
average	1.65	1.65	1.65	1.64	1.64	1.65	1.64	1.64	1.64
sigma	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03



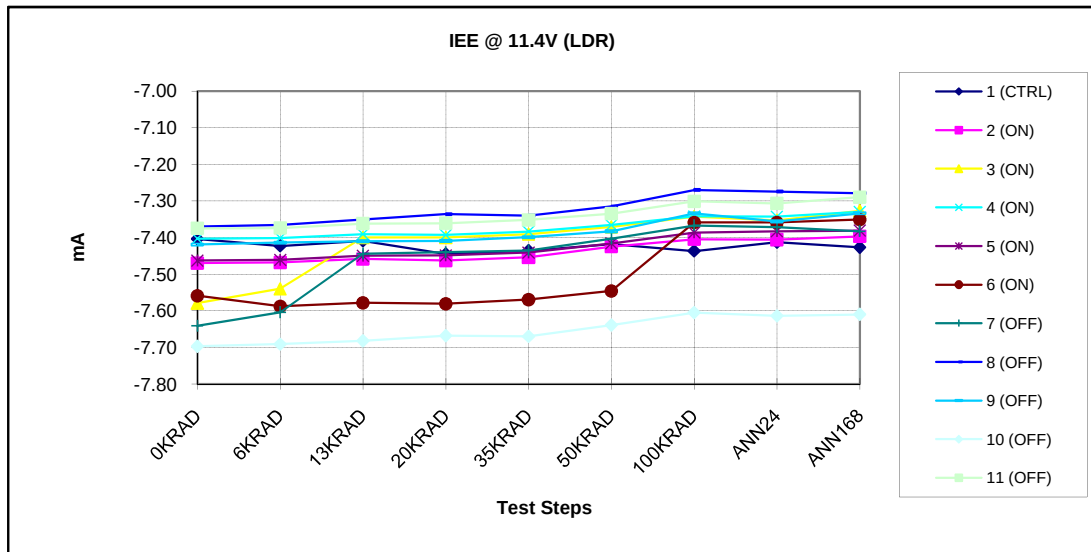
ICC @ 16.5V (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	1.64	1.64	1.64	1.64	1.65	1.65	1.65	1.65	1.65
ELDR OFF	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.63	1.64
LDR ON	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
LDR OFF	1.65	1.65	1.65	1.64	1.64	1.65	1.64	1.64	1.64



IEE @ 11.4V (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-18	-18	-18	-18	-18	-18	-18	-18	-18
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	-7.42	-7.42	-7.43	-7.42	-7.41	-7.43	-7.42	-7.44	-7.43

Bias on results									
2 (ON)	-7.52	-7.53	-7.51	-7.49	-7.51	-7.49	-7.43	-7.43	-7.45
3 (ON)	-7.58	-7.59	-7.57	-7.55	-7.56	-7.54	-7.49	-7.49	-7.50
4 (ON)	-7.53	-7.53	-7.44	-7.34	-7.35	-7.33	-7.27	-7.27	-7.29
5 (ON)	-7.49	-7.50	-7.48	-7.47	-7.47	-7.46	-7.41	-7.42	-7.42
6 (ON)	-7.33	-7.34	-7.32	-7.30	-7.31	-7.28	-7.24	-7.24	-7.24
Statistics bias on									
min result	-7.575	-7.586	-7.565	-7.551	-7.562	-7.543	-7.487	-7.487	-7.502
max result	-7.332	-7.336	-7.316	-7.303	-7.307	-7.284	-7.235	-7.236	-7.244
average	-7.491	-7.496	-7.462	-7.433	-7.439	-7.422	-7.367	-7.369	-7.380
sigma	0.093	0.095	0.094	0.105	0.108	0.110	0.108	0.109	0.110

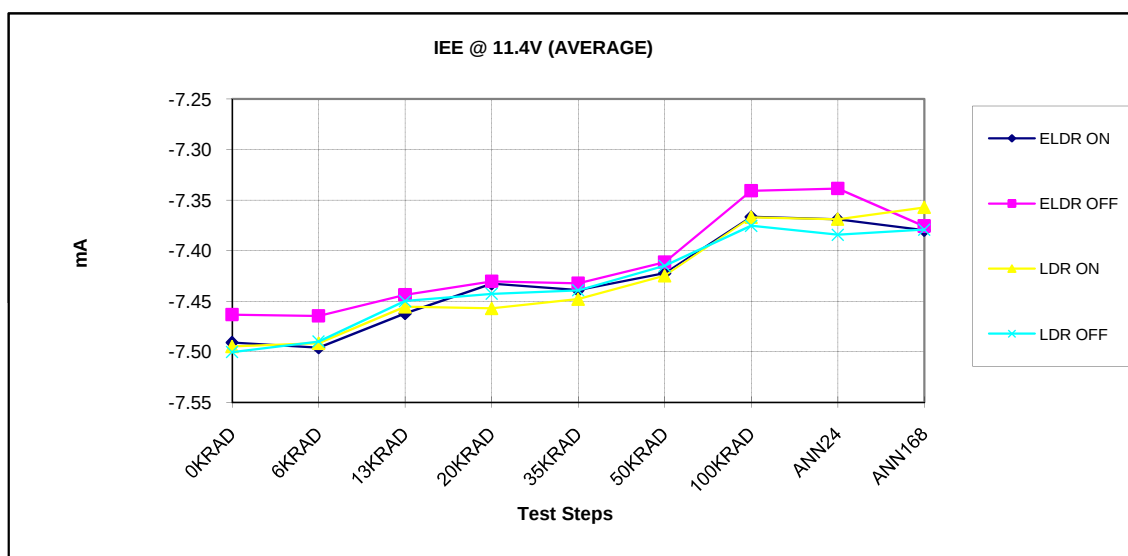
Bias off results									
7 (OFF)	-7.58	-7.58	-7.56	-7.54	-7.54	-7.51	-7.31	-7.31	-7.47
8 (OFF)	-7.27	-7.27	-7.26	-7.24	-7.26	-7.23	-7.20	-7.19	-7.19
9 (OFF)	-7.52	-7.52	-7.50	-7.49	-7.48	-7.47	-7.43	-7.44	-7.44
10 (OFF)	-7.37	-7.37	-7.35	-7.34	-7.34	-7.32	-7.28	-7.28	-7.29
11 (OFF)	-7.58	-7.58	-7.56	-7.54	-7.54	-7.53	-7.48	-7.47	-7.50
Statistics bias off									
min result	-7.580	-7.580	-7.559	-7.544	-7.544	-7.526	-7.480	-7.473	-7.496
max result	-7.272	-7.274	-7.258	-7.244	-7.259	-7.229	-7.196	-7.193	-7.187
average	-7.463	-7.465	-7.444	-7.430	-7.432	-7.411	-7.341	-7.339	-7.376
sigma	0.137	0.135	0.133	0.133	0.127	0.131	0.115	0.116	0.133



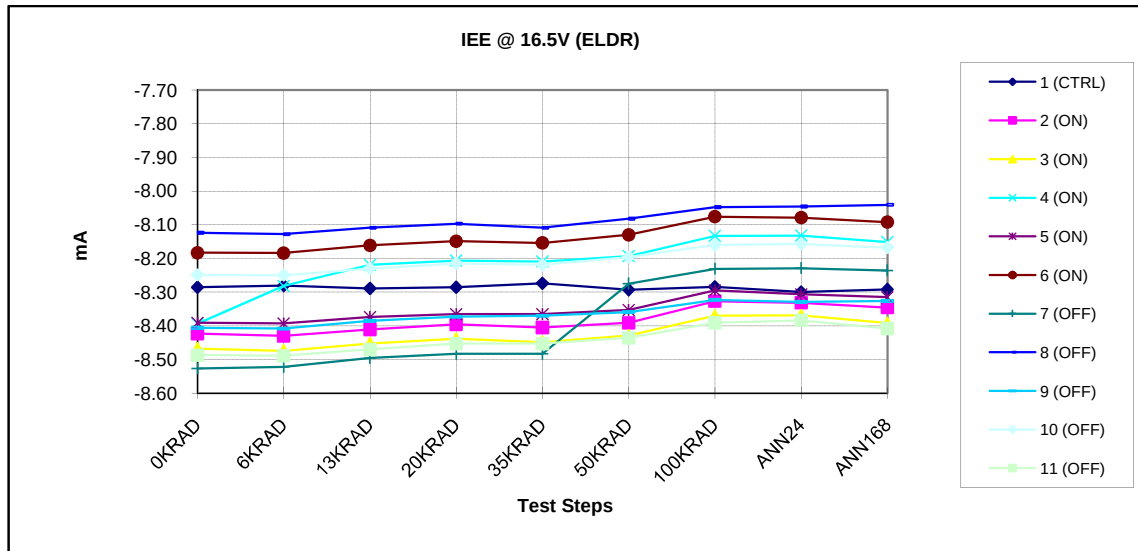
IEE @ 11.4V (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-18	-18	-18	-18	-18	-18	-18	-18	-18
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	-7.40	-7.42	-7.41	-7.45	-7.44	-7.42	-7.44	-7.41	-7.43

Bias on results									
2 (ON)	-7.47	-7.47	-7.46	-7.46	-7.45	-7.43	-7.41	-7.41	-7.40
3 (ON)	-7.58	-7.54	-7.40	-7.40	-7.39	-7.37	-7.34	-7.35	-7.33
4 (ON)	-7.40	-7.40	-7.39	-7.39	-7.38	-7.37	-7.34	-7.34	-7.33
5 (ON)	-7.46	-7.46	-7.45	-7.45	-7.44	-7.42	-7.39	-7.38	-7.38
6 (ON)	-7.56	-7.59	-7.58	-7.58	-7.57	-7.55	-7.36	-7.36	-7.35
Statistics bias on									
min result	-7.58	-7.59	-7.58	-7.58	-7.57	-7.55	-7.41	-7.41	-7.40
max result	-7.40	-7.40	-7.39	-7.39	-7.38	-7.37	-7.34	-7.34	-7.33
average	-7.49	-7.49	-7.46	-7.46	-7.45	-7.42	-7.37	-7.37	-7.36
sigma	0.07	0.07	0.07	0.08	0.07	0.07	0.03	0.03	0.03

Bias off results									
7 (OFF)	-7.64	-7.60	-7.44	-7.44	-7.44	-7.40	-7.37	-7.37	-7.38
8 (OFF)	-7.37	-7.37	-7.35	-7.34	-7.34	-7.32	-7.27	-7.27	-7.28
9 (OFF)	-7.42	-7.41	-7.41	-7.41	-7.40	-7.38	-7.33	-7.36	-7.33
10 (OFF)	-7.70	-7.69	-7.68	-7.67	-7.67	-7.64	-7.61	-7.61	-7.61
11 (OFF)	-7.38	-7.37	-7.36	-7.36	-7.35	-7.34	-7.30	-7.31	-7.29
Statistics bias off									
min result	-7.70	-7.69	-7.68	-7.67	-7.67	-7.64	-7.61	-7.61	-7.61
max result	-7.37	-7.37	-7.35	-7.34	-7.34	-7.32	-7.27	-7.27	-7.28
average	-7.50	-7.49	-7.45	-7.44	-7.44	-7.42	-7.38	-7.38	-7.38
sigma	0.16	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.14



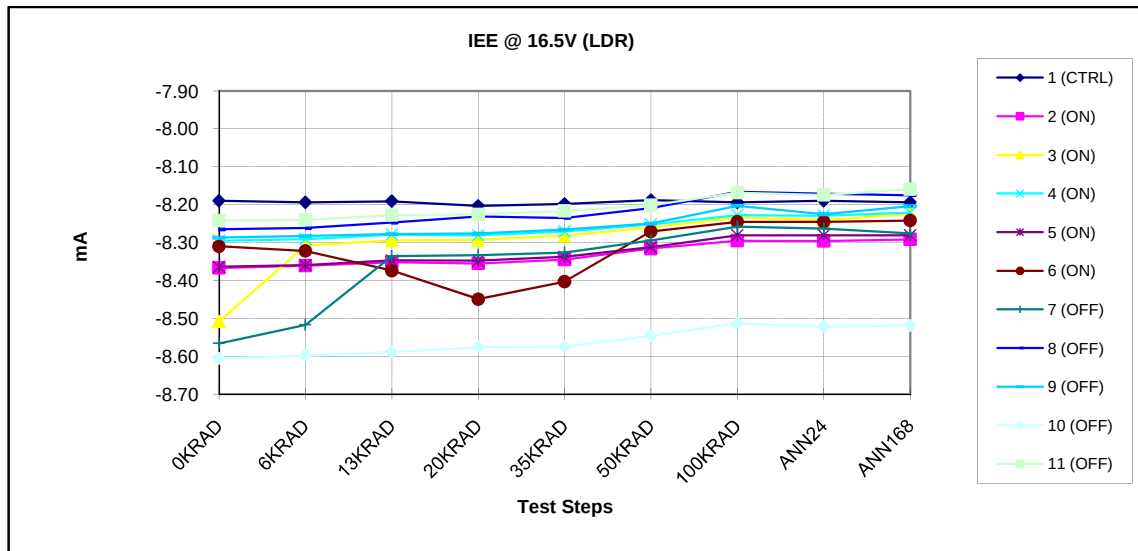
IEE @ 11.4V (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-7.49	-7.496	-7.462	-7.433	-7.439	-7.422	-7.367	-7.369	-7.380
ELDR OFF	-7.463	-7.465	-7.444	-7.430	-7.432	-7.411	-7.341	-7.339	-7.376
LDR ON	-7.495	-7.492	-7.456	-7.457	-7.448	-7.425	-7.367	-7.369	-7.357
LDR OFF	-7.500	-7.490	-7.450	-7.443	-7.439	-7.415	-7.375	-7.384	-7.379



IEE @ 16.5V (ELDR)	0K RAD	6K RAD	13K RAD	20K RAD	35K RAD	50K RAD	100K RAD	ANN24	ANN168
Min	-18	-18	-18	-18	-18	-18	-18	-18	-18
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	-8.29	-8.28	-8.29	-8.29	-8.27	-8.29	-8.29	-8.30	-8.29

Bias on results									
2 (ON)	-8.42	-8.43	-8.41	-8.40	-8.41	-8.39	-8.33	-8.33	-8.35
3 (ON)	-8.47	-8.47	-8.45	-8.44	-8.45	-8.43	-8.37	-8.37	-8.39
4 (ON)	-8.39	-8.28	-8.22	-8.21	-8.21	-8.19	-8.13	-8.13	-8.15
5 (ON)	-8.39	-8.39	-8.37	-8.37	-8.37	-8.35	-8.30	-8.31	-8.32
6 (ON)	-8.18	-8.18	-8.16	-8.15	-8.15	-8.13	-8.08	-8.08	-8.09
Statistics bias on									
min result	-8.47	-8.47	-8.45	-8.44	-8.45	-8.43	-8.37	-8.37	-8.39
max result	-8.18	-8.18	-8.16	-8.15	-8.15	-8.13	-8.08	-8.08	-8.09
average	-8.37	-8.35	-8.32	-8.31	-8.32	-8.30	-8.24	-8.24	-8.26
sigma	0.11	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13

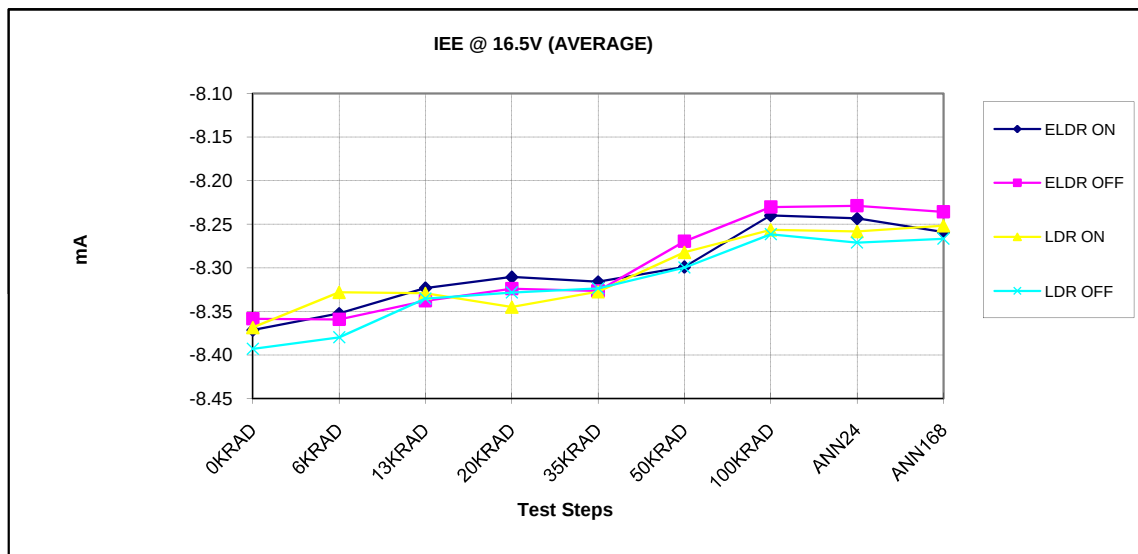
Bias off results									
7 (OFF)	-8.53	-8.52	-8.50	-8.48	-8.48	-8.28	-8.23	-8.23	-8.24
8 (OFF)	-8.12	-8.13	-8.11	-8.10	-8.11	-8.08	-8.05	-8.05	-8.04
9 (OFF)	-8.41	-8.41	-8.39	-8.37	-8.37	-8.36	-8.32	-8.33	-8.33
10 (OFF)	-8.25	-8.25	-8.23	-8.22	-8.22	-8.20	-8.16	-8.16	-8.17
11 (OFF)	-8.49	-8.49	-8.47	-8.45	-8.45	-8.44	-8.39	-8.38	-8.41
Statistics bias off									
min result	-8.53	-8.52	-8.50	-8.48	-8.48	-8.44	-8.39	-8.38	-8.41
max result	-8.12	-8.13	-8.11	-8.10	-8.11	-8.08	-8.05	-8.05	-8.04
average	-8.36	-8.36	-8.34	-8.32	-8.33	-8.27	-8.23	-8.23	-8.24
sigma	0.17	0.17	0.16	0.16	0.16	0.14	0.13	0.13	0.14



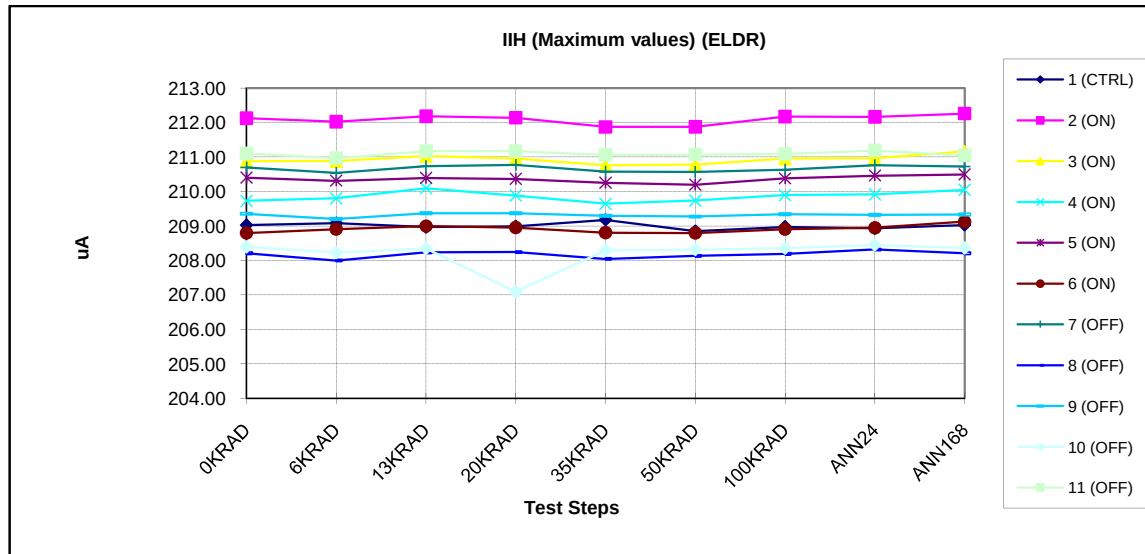
IEE @ 16.5V (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-18	-18	-18	-18	-18	-18	-18	-18	-18
Max	--	--	--	--	--	--	--	--	--
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	-8.19	-8.19	-8.19	-8.20	-8.20	-8.19	-8.19	-8.19	-8.19

Bias on results									
2 (ON)	-8.37	-8.36	-8.35	-8.36	-8.35	-8.32	-8.30	-8.30	-8.29
3 (ON)	-8.51	-8.31	-8.30	-8.29	-8.28	-8.26	-8.23	-8.24	-8.22
4 (ON)	-8.30	-8.29	-8.28	-8.28	-8.27	-8.25	-8.23	-8.23	-8.22
5 (ON)	-8.36	-8.36	-8.35	-8.35	-8.34	-8.31	-8.28	-8.28	-8.28
6 (ON)	-8.31	-8.32	-8.37	-8.45	-8.40	-8.27	-8.25	-8.25	-8.24
Statistics bias on									
min result	-8.51	-8.36	-8.37	-8.45	-8.40	-8.32	-8.30	-8.30	-8.29
max result	-8.30	-8.29	-8.28	-8.28	-8.27	-8.25	-8.23	-8.23	-8.22
average	-8.37	-8.33	-8.33	-8.35	-8.33	-8.28	-8.26	-8.26	-8.25
sigma	0.08	0.03	0.04	0.07	0.05	0.03	0.03	0.03	0.03

Bias off results									
7 (OFF)	-8.57	-8.52	-8.34	-8.33	-8.33	-8.29	-8.26	-8.26	-8.28
8 (OFF)	-8.27	-8.26	-8.25	-8.23	-8.24	-8.21	-8.17	-8.17	-8.18
9 (OFF)	-8.29	-8.28	-8.28	-8.28	-8.27	-8.25	-8.20	-8.23	-8.20
10 (OFF)	-8.61	-8.60	-8.59	-8.58	-8.58	-8.55	-8.51	-8.52	-8.52
11 (OFF)	-8.24	-8.24	-8.23	-8.23	-8.22	-8.20	-8.17	-8.17	-8.16
Statistics bias off									
min result	-8.61	-8.60	-8.59	-8.58	-8.58	-8.55	-8.51	-8.52	-8.52
max result	-8.24	-8.24	-8.23	-8.23	-8.22	-8.20	-8.17	-8.17	-8.16
average	-8.39	-8.38	-8.34	-8.33	-8.32	-8.30	-8.26	-8.27	-8.27
sigma	0.18	0.17	0.15	0.14	0.15	0.14	0.15	0.15	0.15



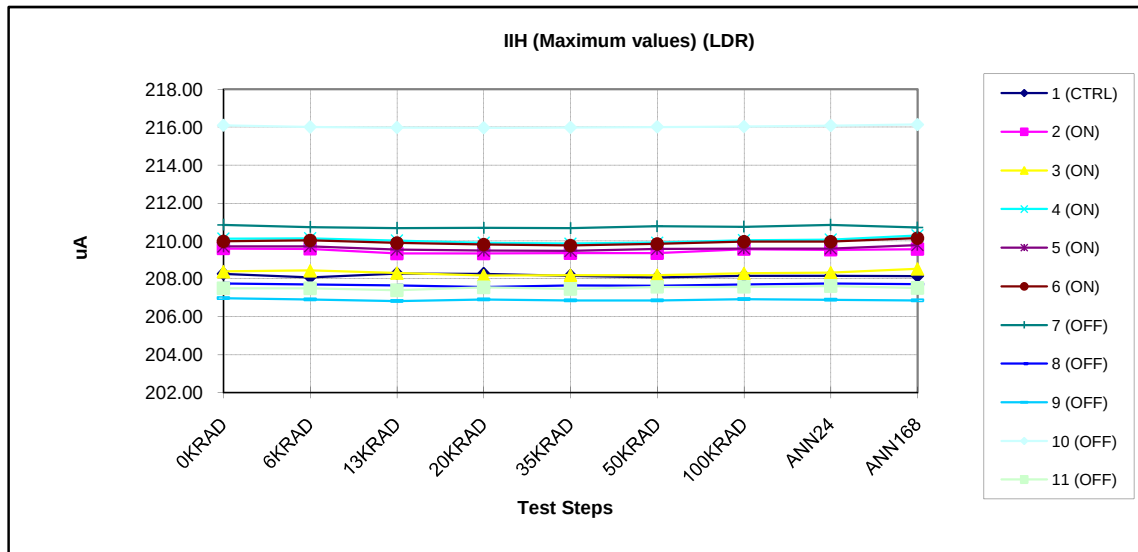
IEE @ 16.5V (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-8.372	-8.353	-8.323	-8.311	-8.316	-8.299	-8.240	-8.244	-8.259
ELDR OFF	-8.359	-8.359	-8.338	-8.324	-8.327	-8.270	-8.231	-8.229	-8.236
LDR ON	-8.369	-8.328	-8.329	-8.345	-8.328	-8.282	-8.257	-8.259	-8.252
LDR OFF	-8.393	-8.380	-8.336	-8.328	-8.324	-8.300	-8.262	-8.271	-8.267



IIH (1) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	300	300	300	300	300	300	300	300	300
Unit	uA	uA	uA	uA	uA	uA	uA	uA	uA
Control Results									
1 (CTRL)	209.03	209.08	208.97	208.99	209.18	208.85	208.98	208.93	209.03

Bias on results									
2 (ON)	212.13	212.03	212.19	212.14	211.88	211.88	212.18	212.17	212.26
3 (ON)	210.88	210.88	211.04	210.96	210.76	210.78	210.96	210.97	211.16
4 (ON)	209.73	209.81	210.10	209.89	209.65	209.74	209.90	209.92	210.05
5 (ON)	210.41	210.32	210.40	210.37	210.26	210.20	210.38	210.47	210.50
6 (ON)	208.80	208.91	209.00	208.96	208.81	208.80	208.91	208.95	209.13
Statistics bias on									
min result	208.80	208.91	209.00	208.96	208.81	208.80	208.91	208.95	209.13
max result	212.13	212.03	212.19	212.14	211.88	211.88	212.18	212.17	212.26
average	210.39	210.39	210.54	210.46	210.27	210.28	210.47	210.50	210.62
sigma	1.25	1.17	1.18	1.19	1.16	1.15	1.22	1.20	1.18

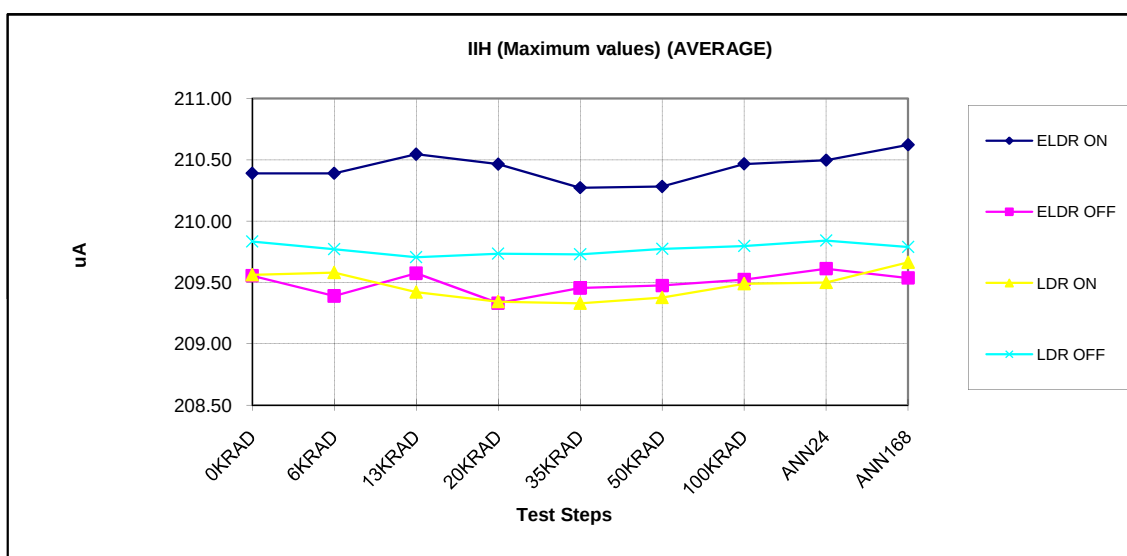
Bias off results									
7 (OFF)	210.70	210.54	210.74	210.77	210.57	210.57	210.63	210.77	210.73
8 (OFF)	208.21	208.00	208.24	208.24	208.05	208.13	208.19	208.32	208.21
9 (OFF)	209.36	209.21	209.37	209.37	209.30	209.28	209.34	209.33	209.33
10 (OFF)	208.40	208.23	208.35	207.10	208.30	208.32	208.36	208.45	208.36
11 (OFF)	211.11	210.97	211.17	211.18	211.06	211.08	211.09	211.19	211.05
Statistics bias off									
min result	208.21	208.00	208.24	207.10	208.05	208.13	208.19	208.32	208.21
max result	211.11	210.97	211.17	211.18	211.06	211.08	211.09	211.19	211.05
average	209.55	209.39	209.57	209.33	209.46	209.47	209.52	209.61	209.54
sigma	1.31	1.34	1.34	1.71	1.34	1.32	1.31	1.32	1.31



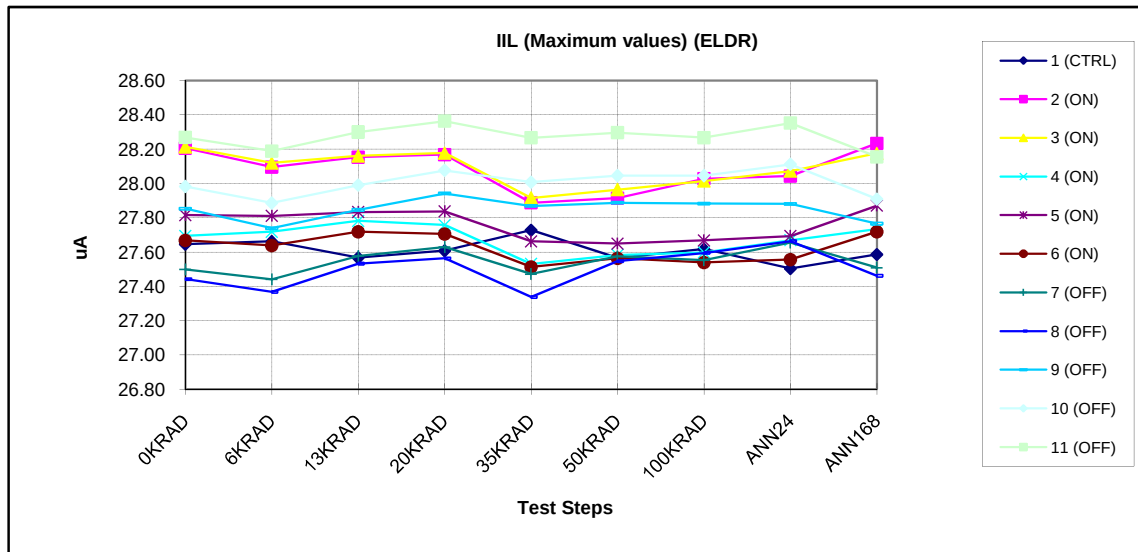
IIH (Maximum values) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	300	300	300	300	300	300	300	300	300
Unit	uA	uA	uA	uA	uA	uA	uA	uA	uA
Control Results									
1 (CTRL)	208.27	208.08	208.28	208.27	208.17	208.08	208.16	208.17	208.15

Bias on results									
2 (ON)	209.60	209.59	209.34	209.35	209.36	209.36	209.57	209.54	209.57
3 (ON)	208.39	208.44	208.31	208.18	208.20	208.19	208.29	208.33	208.53
4 (ON)	210.12	210.13	210.02	209.90	209.86	209.91	210.03	210.07	210.29
5 (ON)	209.71	209.72	209.55	209.48	209.47	209.57	209.60	209.60	209.78
6 (ON)	209.99	210.03	209.89	209.81	209.76	209.84	209.96	209.96	210.15
Statistics bias on									
min result	208.39	208.44	208.31	208.18	208.20	208.19	208.29	208.33	208.53
max result	210.12	210.13	210.02	209.90	209.86	209.91	210.03	210.07	210.29
average	209.56	209.58	209.42	209.34	209.33	209.38	209.49	209.50	209.66
sigma	0.69	0.68	0.68	0.69	0.66	0.70	0.70	0.69	0.70

Bias off results									
7 (OFF)	210.85	210.73	210.68	210.68	210.67	210.77	210.75	210.85	210.71
8 (OFF)	207.74	207.70	207.65	207.57	207.66	207.64	207.70	207.75	207.72
9 (OFF)	206.98	206.92	206.83	206.92	206.87	206.86	206.93	206.90	206.86
10 (OFF)	216.10	216.01	215.98	215.96	215.99	216.02	216.03	216.08	216.14
11 (OFF)	207.50	207.50	207.40	207.55	207.47	207.58	207.58	207.62	207.51
Statistics bias off									
min result	206.98	206.92	206.83	206.92	206.87	206.86	206.93	206.90	206.86
max result	216.10	216.01	215.98	215.96	215.99	216.02	216.03	216.08	216.14
average	209.83	209.77	209.71	209.74	209.73	209.77	209.80	209.84	209.79
sigma	3.81	3.79	3.81	3.78	3.80	3.80	3.79	3.81	3.85



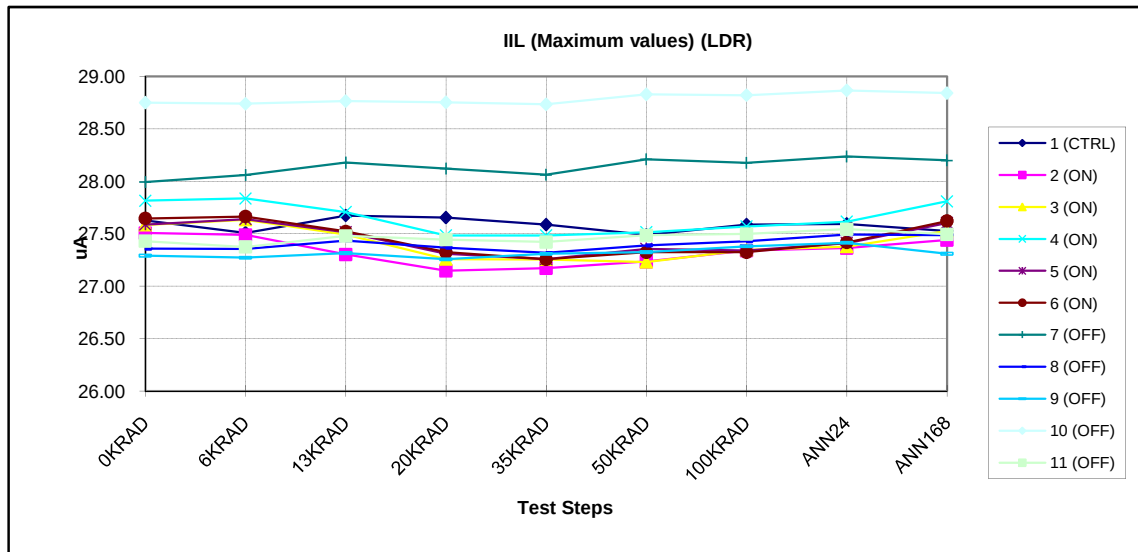
IIH (Maximum values) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	210.389	210.389	210.545	210.464	210.272	210.282	210.466	210.496	210.622
ELDR OFF	209.555	209.390	209.575	209.332	209.455	209.475	209.523	209.612	209.537
LDR ON	209.562	209.581	209.420	209.343	209.330	209.376	209.489	209.499	209.664
LDR OFF	209.834	209.772	209.706	209.735	209.730	209.774	209.796	209.841	209.789



IIL (Maximum values) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	uA	uA	uA	uA	uA	uA	uA	uA	uA
Control Results									
1 (CTRL)	27.65	27.66	27.57	27.61	27.73	27.57	27.62	27.50	27.59

Bias on results									
2 (ON)	28.21	28.10	28.15	28.17	27.89	27.92	28.03	28.04	28.23
3 (ON)	28.21	28.12	28.16	28.18	27.92	27.97	28.02	28.07	28.18
4 (ON)	27.69	27.72	27.78	27.76	27.53	27.58	27.60	27.67	27.73
5 (ON)	27.82	27.81	27.83	27.84	27.66	27.65	27.67	27.69	27.87
6 (ON)	27.67	27.64	27.72	27.71	27.51	27.56	27.54	27.56	27.72
Statistics bias on									
min result	27.67	27.64	27.72	27.71	27.51	27.56	27.54	27.56	27.72
max result	28.21	28.12	28.16	28.18	27.92	27.97	28.03	28.07	28.23
average	27.92	27.88	27.93	27.93	27.70	27.74	27.77	27.81	27.95
sigma	0.27	0.22	0.21	0.23	0.19	0.19	0.23	0.24	0.24

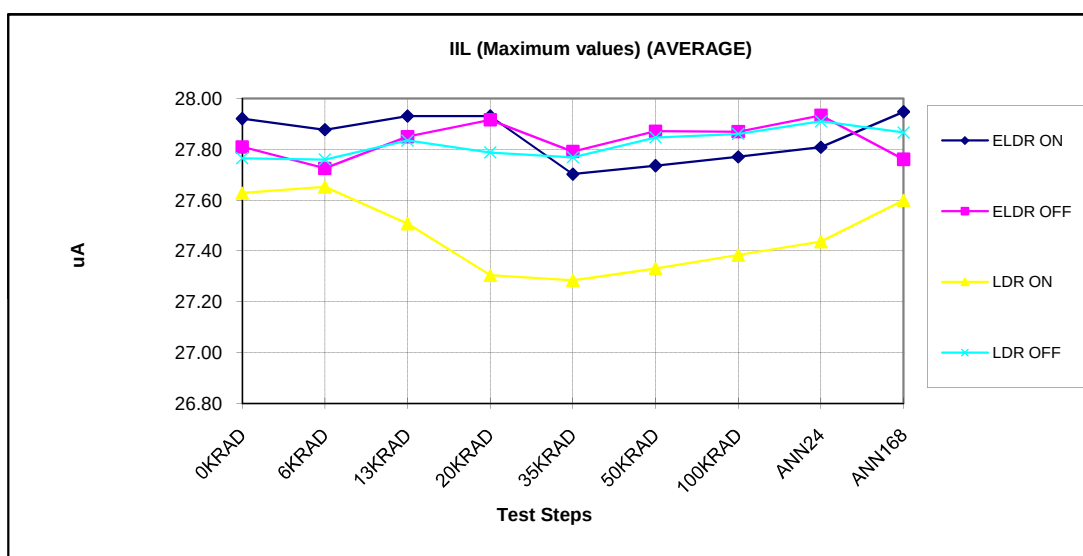
Bias off results									
7 (OFF)	27.50	27.44	27.58	27.63	27.47	27.58	27.55	27.66	27.51
8 (OFF)	27.44	27.37	27.53	27.56	27.34	27.55	27.60	27.66	27.46
9 (OFF)	27.85	27.74	27.85	27.94	27.87	27.89	27.88	27.88	27.77
10 (OFF)	27.98	27.89	27.99	28.08	28.01	28.05	28.05	28.11	27.91
11 (OFF)	28.27	28.19	28.30	28.36	28.27	28.30	28.27	28.35	28.16
Statistics bias off									
min result	27.44	27.37	27.53	27.56	27.34	27.55	27.55	27.66	27.46
max result	28.27	28.19	28.30	28.36	28.27	28.30	28.27	28.35	28.16
average	27.81	27.72	27.85	27.92	27.79	27.87	27.87	27.93	27.76
sigma	0.34	0.34	0.32	0.33	0.38	0.32	0.30	0.30	0.29



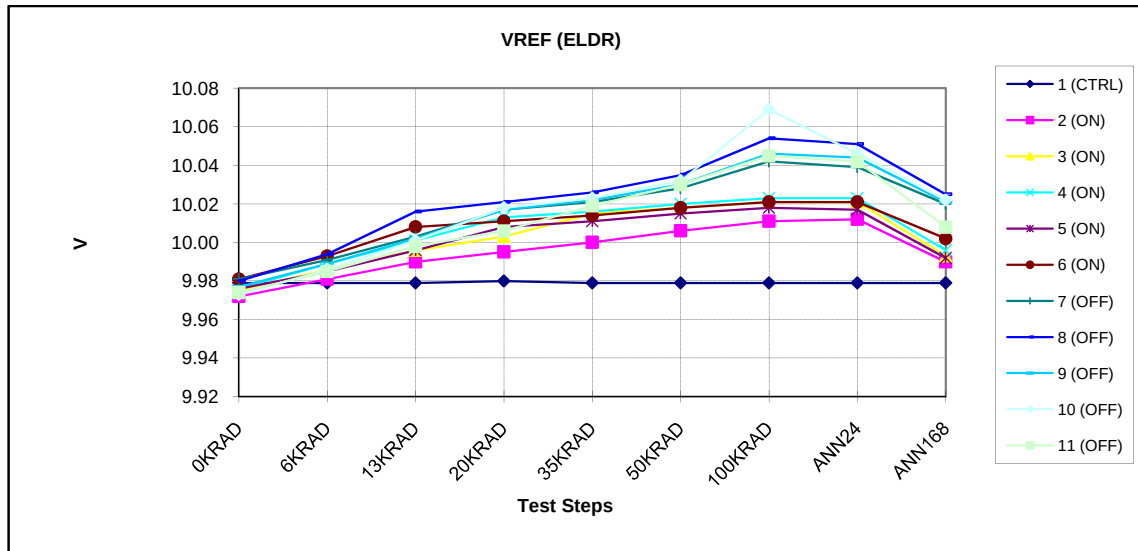
IIL (Maximum values) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	--	--	--	--	--	--	--	--	--
Max	100	100	100	100	100	100	100	100	100
Unit	uA	uA	uA	uA	uA	uA	uA	uA	uA
Control Results									
1 (CTRL)	27.627	27.509	27.672	27.653	27.586	27.49	27.587	27.593	27.526

Bias on results									
2 (ON)	27.506	27.487	27.302	27.146	27.169	27.233	27.339	27.363	27.438
3 (ON)	27.584	27.633	27.492	27.257	27.254	27.23	27.345	27.377	27.526
4 (ON)	27.815	27.836	27.707	27.485	27.484	27.515	27.57	27.615	27.808
5 (ON)	27.586	27.639	27.513	27.31	27.258	27.356	27.341	27.411	27.603
6 (ON)	27.647	27.664	27.522	27.322	27.256	27.322	27.324	27.417	27.621
Statistics bias on									
min result	27.506	27.487	27.302	27.146	27.169	27.230	27.324	27.363	27.438
max result	27.815	27.836	27.707	27.485	27.484	27.515	27.570	27.615	27.808
average	27.628	27.652	27.507	27.304	27.284	27.331	27.384	27.437	27.599
sigma	0.116	0.124	0.144	0.123	0.118	0.117	0.104	0.102	0.137

Bias off results									
7 (OFF)	27.992	28.059	28.176	28.12	28.061	28.208	28.175	28.235	28.198
8 (OFF)	27.358	27.354	27.435	27.365	27.317	27.388	27.428	27.493	27.488
9 (OFF)	27.291	27.271	27.316	27.257	27.308	27.324	27.38	27.413	27.309
10 (OFF)	28.75	28.739	28.764	28.753	28.733	28.828	28.821	28.866	28.84
11 (OFF)	27.429	27.374	27.479	27.443	27.421	27.484	27.496	27.542	27.494
Statistics bias off									
min result	27.291	27.271	27.316	27.257	27.308	27.324	27.380	27.413	27.309
max result	28.750	28.739	28.764	28.753	28.733	28.828	28.821	28.866	28.840
average	27.764	27.759	27.834	27.788	27.768	27.846	27.860	27.910	27.866
sigma	0.617	0.633	0.620	0.637	0.623	0.654	0.627	0.628	0.642



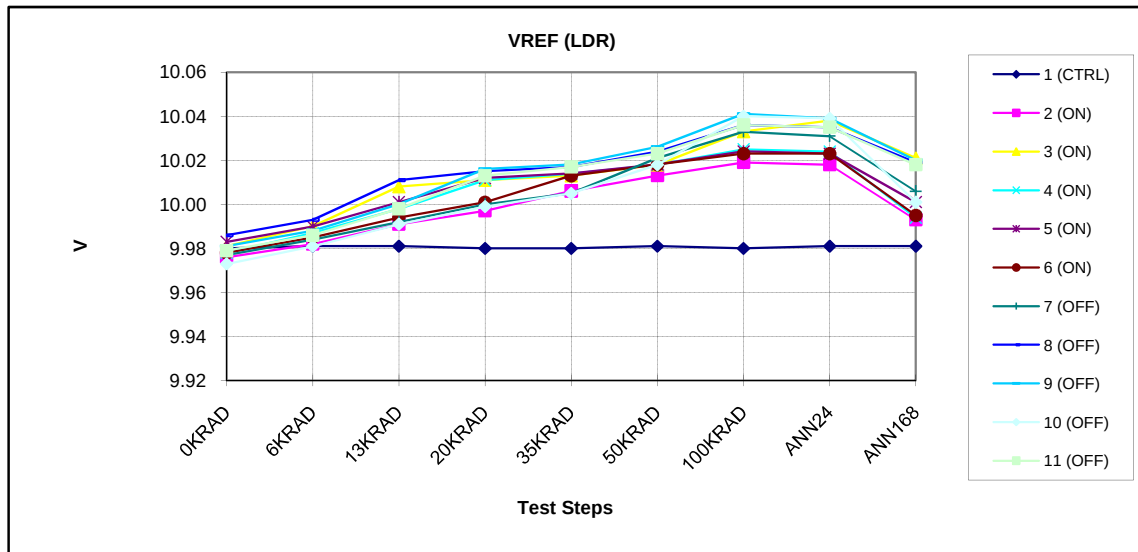
IIL (Maximum values) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	27.920	27.877	27.930	27.930	27.702	27.735	27.770	27.807	27.947
ELDR OFF	27.809	27.725	27.849	27.915	27.791	27.871	27.869	27.933	27.760
LDR ON	27.628	27.652	27.507	27.304	27.284	27.331	27.384	27.437	27.599
LDR OFF	27.764	27.759	27.834	27.788	27.768	27.846	27.860	27.910	27.866



VREF (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
Max	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
Unit	V	V	V	V	V	V	V	V	V
Control Results									
1 (CTRL)	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98

Bias on results									
2 (ON)	9.97	9.98	9.99	10.00	10.00	10.01	10.01	10.01	9.99
3 (ON)	9.98	9.99	10.00	10.00	10.02	10.02	10.02	10.02	9.99
4 (ON)	9.98	9.99	10.00	10.01	10.02	10.02	10.02	10.02	10.00
5 (ON)	9.98	9.99	10.00	10.01	10.01	10.02	10.02	10.02	9.99
6 (ON)	9.98	9.99	10.01	10.01	10.01	10.02	10.02	10.02	10.00
Statistics bias on									
min result	9.97	9.98	9.99	10.00	10.00	10.01	10.01	10.01	9.99
max result	9.98	9.99	10.01	10.01	10.02	10.02	10.02	10.02	10.00
average	9.98	9.99	10.00	10.01	10.01	10.02	10.02	10.02	9.99
sigma	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00

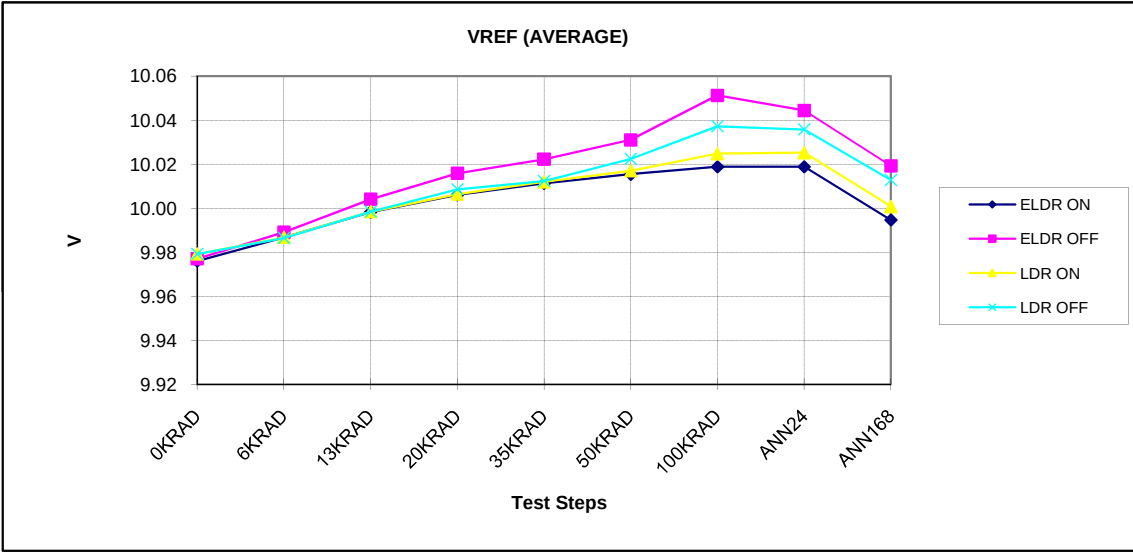
Bias off results									
7 (OFF)	9.98	9.99	10.00	10.02	10.02	10.03	10.04	10.04	10.02
8 (OFF)	9.98	9.99	10.02	10.02	10.03	10.04	10.05	10.05	10.03
9 (OFF)	9.98	9.99	10.00	10.02	10.02	10.03	10.05	10.04	10.02
10 (OFF)	9.97	9.99	10.00	10.02	10.02	10.03	10.07	10.05	10.02
11 (OFF)	9.97	9.99	10.00	10.01	10.02	10.03	10.05	10.04	10.01
Statistics bias off									
min result	9.97	9.99	10.00	10.01	10.02	10.03	10.04	10.04	10.01
max result	9.98	9.99	10.02	10.02	10.03	10.04	10.07	10.05	10.03
average	9.98	9.99	10.00	10.02	10.02	10.03	10.05	10.04	10.02
sigma	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.01



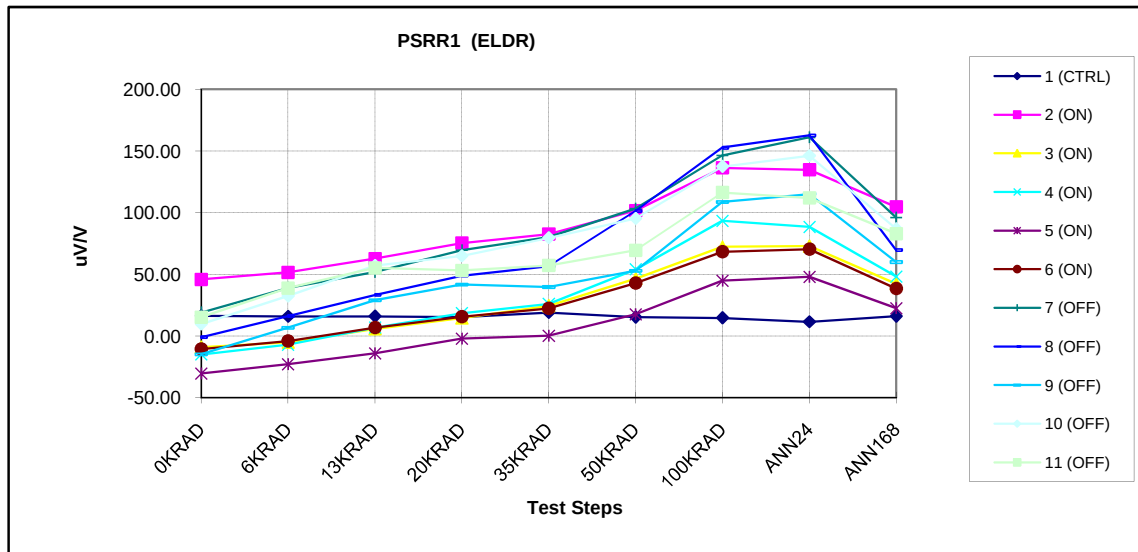
VREF (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
Max	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
Unit	V	V	V	V	V	V	V	V	V
Control Results									
1 (CTRL)	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98	9.98

Bias on results									
2 (ON)	9.98	9.98	9.99	10.00	10.01	10.01	10.02	10.02	9.99
3 (ON)	9.98	9.99	10.01	10.01	10.01	10.02	10.03	10.04	10.02
4 (ON)	9.98	9.99	10.00	10.01	10.01	10.02	10.03	10.02	9.99
5 (ON)	9.98	9.99	10.00	10.01	10.01	10.02	10.02	10.02	10.00
6 (ON)	9.98	9.99	9.99	10.00	10.01	10.02	10.02	10.02	10.00
Statistics bias on									
min result	9.98	9.98	9.99	10.00	10.01	10.01	10.02	10.02	9.99
max result	9.98	9.99	10.01	10.01	10.01	10.02	10.03	10.04	10.02
average	9.98	9.99	10.00	10.01	10.01	10.02	10.02	10.03	10.00
sigma	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.01

Bias off results									
7 (OFF)	9.98	9.98	9.99	10.00	10.01	10.02	10.03	10.03	10.01
8 (OFF)	9.99	9.99	10.01	10.02	10.02	10.02	10.04	10.04	10.02
9 (OFF)	9.98	9.99	10.00	10.02	10.02	10.03	10.04	10.04	10.02
10 (OFF)	9.97	9.98	9.99	10.00	10.01	10.02	10.04	10.04	10.00
11 (OFF)	9.98	9.99	10.00	10.01	10.02	10.02	10.04	10.04	10.02
Statistics bias off									
min result	9.97	9.98	9.99	10.00	10.01	10.02	10.03	10.03	10.00
max result	9.99	9.99	10.01	10.02	10.02	10.03	10.04	10.04	10.02
average	9.98	9.99	10.00	10.01	10.01	10.02	10.04	10.04	10.01
sigma	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01



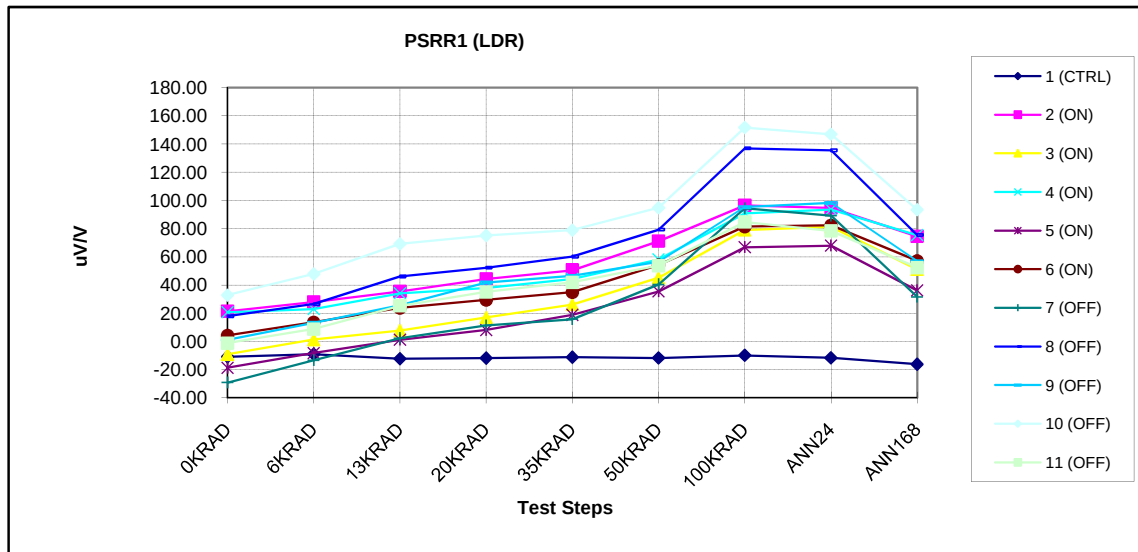
VREF (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	9.98	9.99	10.00	10.01	10.01	10.02	10.02	10.02	9.99
ELDR OFF	9.98	9.99	10.00	10.02	10.02	10.03	10.05	10.04	10.02
LDR ON	9.98	9.99	10.00	10.01	10.01	10.02	10.02	10.03	10.00
LDR OFF	9.98	9.99	10.00	10.01	10.01	10.02	10.04	10.04	10.01



PSRR1 (REF=FS-1LSB) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-667	-667	-667	-667	-667	-667	-667	-667	-667
Max	667	667	667	667	667	667	667	667	667
Unit	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V
Control Results									
1 (CTRL)	16.39	15.90	15.97	15.29	19.00	15.28	14.73	11.49	16.04

Bias on results									
2 (ON)	45.90	51.65	62.80	75.33	82.57	101.67	136.31	134.86	104.71
3 (ON)	-9.02	-5.04	5.80	14.52	24.49	46.48	72.22	72.84	42.36
4 (ON)	-14.90	-6.99	6.86	18.59	26.05	54.05	93.32	88.38	48.26
5 (ON)	-30.39	-22.97	-14.00	-2.03	0.29	17.68	44.92	47.99	22.49
6 (ON)	-10.53	-4.03	6.73	15.60	22.51	43.01	68.23	70.41	38.41
Statistics bias on									
min result	-30.39	-22.97	-14.00	-2.03	0.29	17.68	44.92	47.99	22.49
max result	45.90	51.65	62.80	75.33	82.57	101.67	136.31	134.86	104.71
average	-3.79	2.52	13.64	24.40	31.18	52.58	83.00	82.89	51.25
sigma	29.04	28.52	28.88	29.58	30.58	30.65	34.40	32.43	31.38

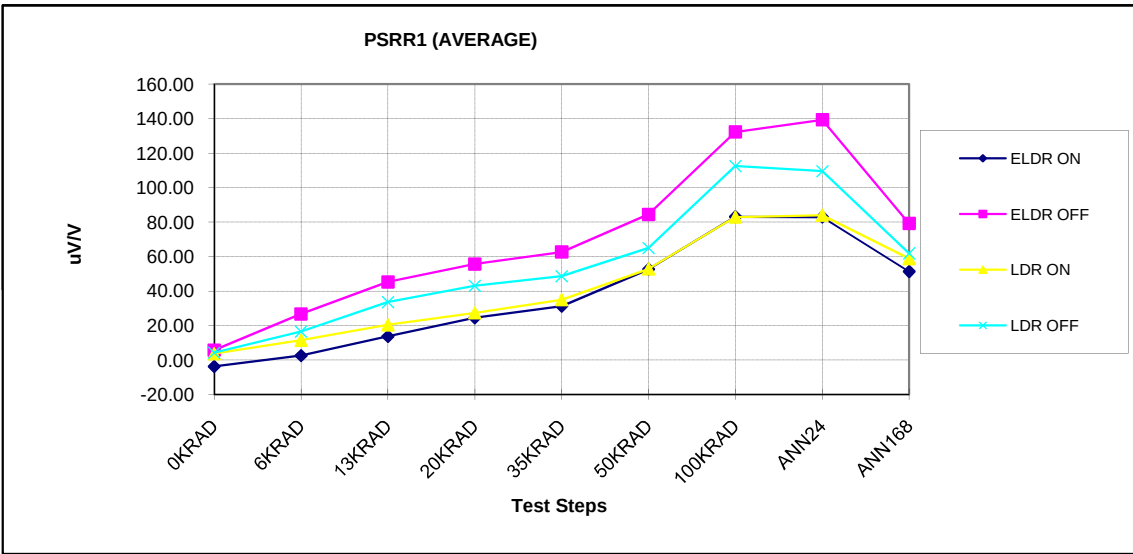
Bias off results									
7 (OFF)	19.05	38.94	51.83	69.48	80.12	103.16	146.26	161.04	95.93
8 (OFF)	-0.90	16.26	33.30	48.92	56.57	101.43	152.63	162.59	69.70
9 (OFF)	-14.72	6.72	29.03	41.81	39.82	52.91	108.72	115.07	60.04
10 (OFF)	9.67	32.43	57.10	64.96	79.58	95.30	137.40	146.13	86.89
11 (OFF)	15.24	38.87	55.16	53.07	57.15	69.43	116.27	111.84	82.95
Statistics bias off									
min result	-14.72	6.72	29.03	41.81	39.82	52.91	108.72	111.84	60.04
max result	19.05	38.94	57.10	69.48	80.12	103.16	152.63	162.59	95.93
average	5.67	26.64	45.28	55.65	62.65	84.44	132.26	139.33	79.10
sigma	13.65	14.48	13.11	11.42	17.18	22.23	19.02	24.51	14.24



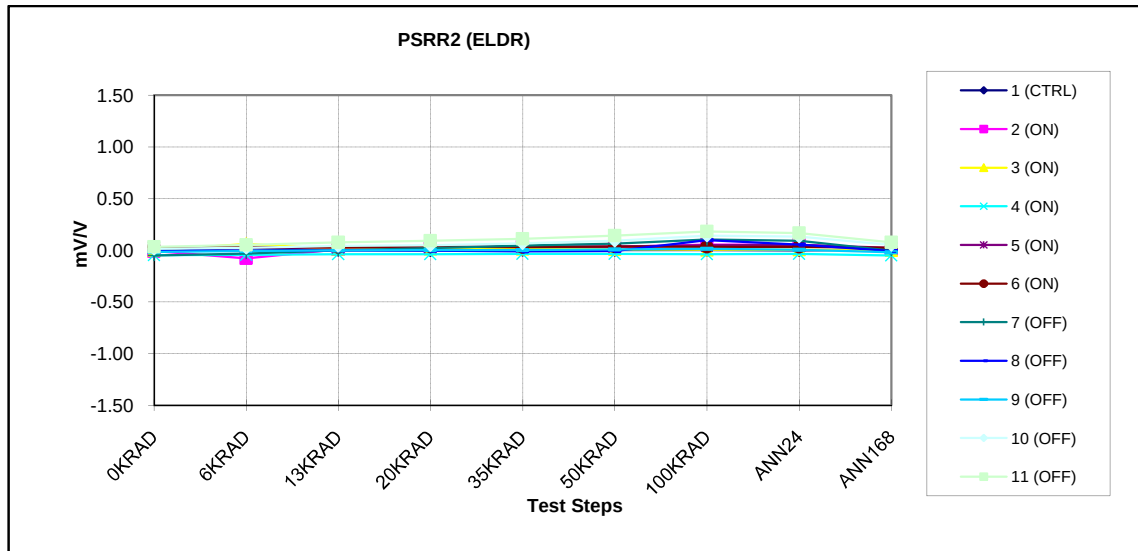
PSRR1 (REF=FS-1LSB) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-667	-667	-667	-667	-667	-667	-667	-667	-667
Max	667	667	667	667	667	667	667	667	667
Unit	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V
Control Results									
1 (CTRL)	-10.89	-9.12	-12.29	-11.86	-11.27	-11.77	-9.93	-11.73	-16.22

Bias on results									
2 (ON)	21.29	27.78	35.30	44.14	50.47	71.04	96.48	94.75	74.55
3 (ON)	-9.17	1.17	7.65	16.96	26.13	45.08	78.92	81.26	51.05
4 (ON)	20.61	22.81	34.09	37.98	44.32	58.13	90.83	93.50	75.35
5 (ON)	-18.73	-8.22	1.14	8.12	18.81	35.46	66.78	67.88	36.06
6 (ON)	4.23	13.62	23.69	29.30	34.79	54.18	81.39	82.24	56.97
Statistics bias on									
min result	-18.73	-8.22	1.14	8.12	18.81	35.46	66.78	67.88	36.06
max result	21.29	27.78	35.30	44.14	50.47	71.04	96.48	94.75	75.35
average	3.65	11.43	20.38	27.30	34.90	52.78	82.88	83.93	58.80
sigma	17.78	14.94	15.44	14.80	12.91	13.45	11.46	10.91	16.60

Bias off results									
7 (OFF)	-29.31	-13.42	2.22	11.18	15.67	40.38	94.26	89.13	31.50
8 (OFF)	17.91	26.46	46.08	52.27	60.13	79.23	136.80	135.42	75.42
9 (OFF)	1.01	13.15	25.62	41.72	46.37	56.48	95.24	98.17	56.90
10 (OFF)	32.85	47.84	69.17	75.09	78.87	94.79	151.67	146.93	93.37
11 (OFF)	-1.31	8.71	25.13	35.02	41.85	53.67	84.64	78.38	52.31
Statistics bias off									
min result	-29.31	-13.42	2.22	11.18	15.67	40.38	84.64	78.38	31.50
max result	32.85	47.84	69.17	75.09	78.87	94.79	151.67	146.93	93.37
average	4.23	16.55	33.64	43.06	48.58	64.91	112.52	109.60	61.90
sigma	23.30	22.63	25.21	23.42	23.37	21.78	29.71	29.94	23.53



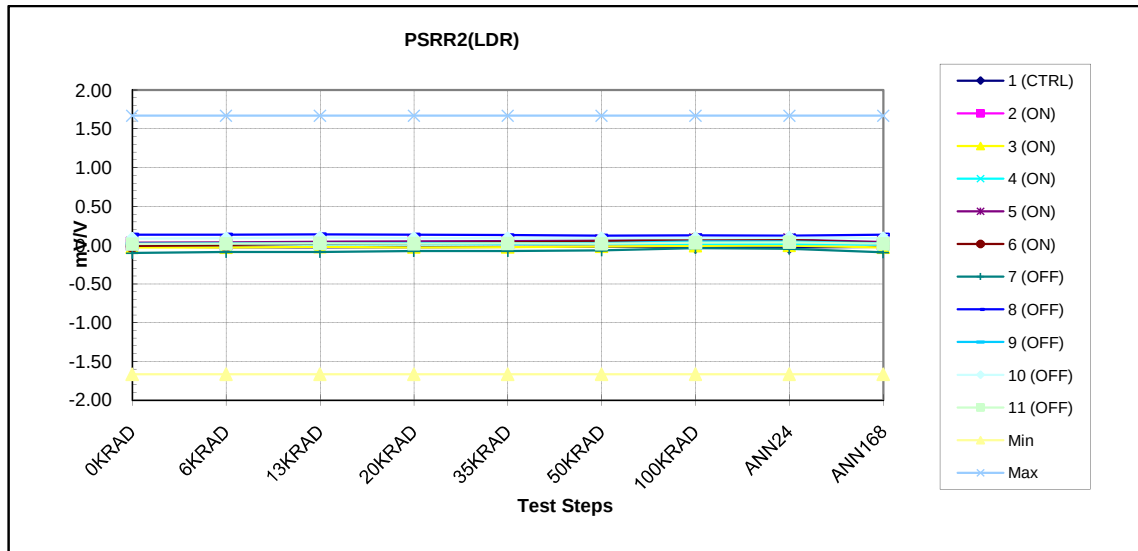
PSRR1 (REF=FS-1LSB) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-3.79	2.52	13.64	24.40	31.18	52.58	83.00	82.89	51.25
ELDR OFF	5.67	26.64	45.28	55.65	62.65	84.44	132.26	139.33	79.10
LDR ON	3.65	11.43	20.38	27.30	34.90	52.78	82.88	83.93	58.80
LDR OFF	4.23	16.55	33.64	43.06	48.58	64.91	112.52	109.60	61.90



PSRR2 (REF=FS-1LSB) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667
Max	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
Unit	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V
Control Results									
1 (CTRL)	-0.001	0.020	0.002	-0.003	0.002	0.001	0.002	-0.002	0.004

Bias on results									
2 (ON)	-0.010	-0.080	0.008	0.022	0.031	0.033	0.053	0.053	0.008
3 (ON)	-0.001	0.060	0.009	0.010	0.010	0.006	0.002	0.004	-0.003
4 (ON)	-0.050	-0.044	-0.040	-0.039	-0.035	-0.037	-0.038	-0.036	-0.052
5 (ON)	0.022	0.026	0.025	0.029	0.034	0.035	0.048	0.051	0.024
6 (ON)	0.026	0.027	0.030	0.035	0.029	0.035	0.032	0.032	0.022
Statistics bias on									
min result	-0.050	-0.080	-0.040	-0.039	-0.035	-0.037	-0.038	-0.036	-0.052
max result	0.026	0.060	0.030	0.035	0.034	0.035	0.053	0.053	0.024
average	-0.003	-0.002	0.006	0.011	0.014	0.014	0.019	0.020	0.000
sigma	0.031	0.058	0.028	0.030	0.029	0.031	0.038	0.037	0.031

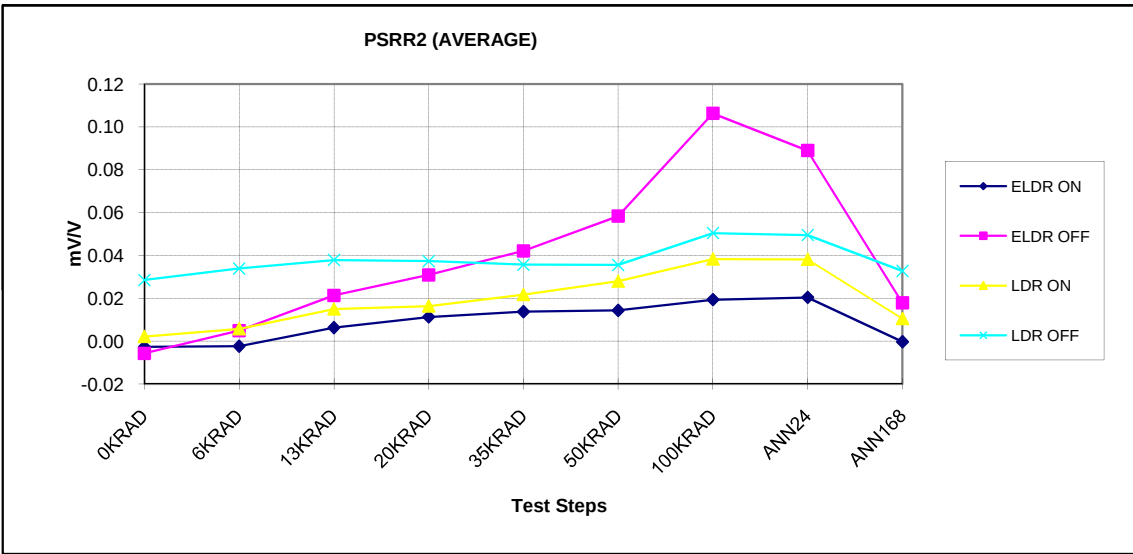
Bias off results									
7 (OFF)	-0.052	-0.034	-0.003	0.020	0.045	0.062	0.102	0.091	-0.004
8 (OFF)	-0.002	-0.005	-0.002	-0.004	-0.011	-0.010	0.096	0.054	-0.010
9 (OFF)	-0.017	-0.010	-0.002	0.001	0.002	0.007	0.014	0.004	-0.021
10 (OFF)	0.012	0.024	0.040	0.046	0.065	0.092	0.140	0.131	0.049
11 (OFF)	0.031	0.050	0.074	0.092	0.110	0.141	0.181	0.165	0.076
Statistics bias off									
min result	-0.052	-0.034	-0.003	-0.004	-0.011	-0.010	0.014	0.004	-0.021
max result	0.031	0.050	0.074	0.092	0.110	0.141	0.181	0.165	0.076
average	-0.006	0.005	0.021	0.031	0.042	0.058	0.106	0.089	0.018
sigma	0.031	0.033	0.035	0.039	0.049	0.062	0.062	0.063	0.042



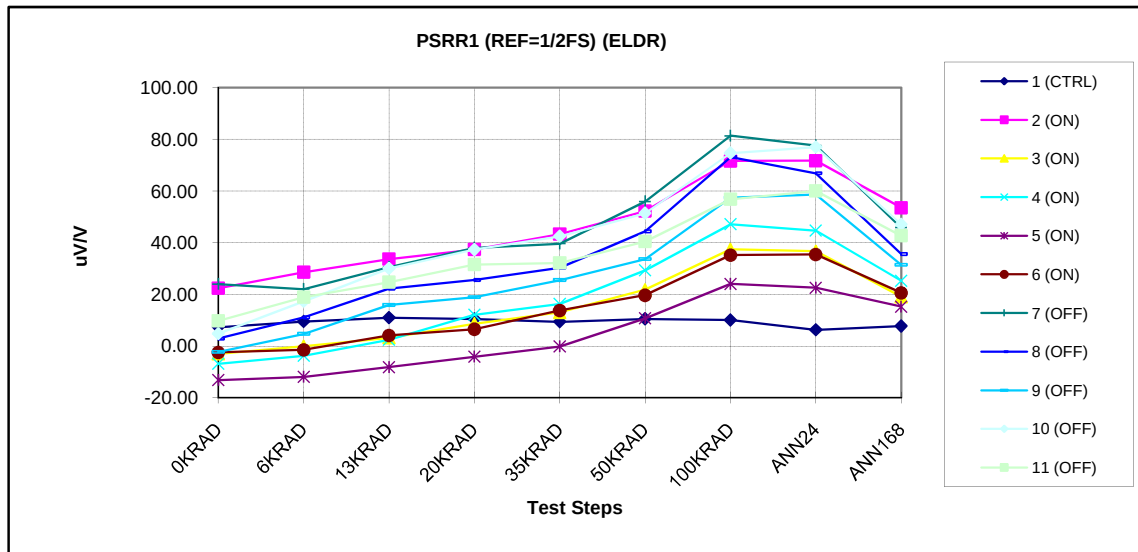
PSRR2 (REF=FS-1LSB) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667
Max	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
Unit	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V
Control Results									
1 (CTRL)	-0.021	-0.027	-0.027	-0.026	-0.026	-0.022	-0.024	-0.030	-0.025

Bias on results									
2 (ON)	0.017	0.019	0.031	0.032	0.033	0.039	0.045	0.045	0.020
3 (ON)	-0.031	-0.031	-0.025	-0.030	-0.027	-0.021	-0.011	-0.007	-0.032
4 (ON)	0.007	0.007	0.011	0.010	0.014	0.013	0.014	0.013	0.003
5 (ON)	0.028	0.032	0.040	0.046	0.051	0.060	0.072	0.071	0.039
6 (ON)	-0.010	0.002	0.018	0.024	0.037	0.049	0.072	0.070	0.023
Statistics bias on									
min result	-0.031	-0.031	-0.025	-0.030	-0.027	-0.021	-0.011	-0.007	-0.032
max result	0.028	0.032	0.040	0.046	0.051	0.060	0.072	0.071	0.039
average	0.002	0.006	0.015	0.016	0.022	0.028	0.038	0.038	0.011
sigma	0.023	0.024	0.025	0.029	0.030	0.032	0.037	0.035	0.027

Bias off results									
7 (OFF)	-0.103	-0.092	-0.089	-0.076	-0.078	-0.070	-0.041	-0.049	-0.096
8 (OFF)	0.133	0.135	0.137	0.133	0.126	0.121	0.125	0.120	0.132
9 (OFF)	0.016	0.021	0.022	0.024	0.020	0.023	0.048	0.047	0.022
10 (OFF)	0.084	0.090	0.098	0.088	0.090	0.087	0.091	0.095	0.089
11 (OFF)	0.013	0.016	0.021	0.018	0.020	0.017	0.030	0.036	0.017
Statistics bias off									
min result	-0.10	-0.09	-0.09	-0.08	-0.08	-0.07	-0.04	-0.05	-0.10
max result	0.13	0.13	0.14	0.13	0.13	0.12	0.13	0.12	0.13
average	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.03
sigma	0.09	0.09	0.09	0.08	0.08	0.07	0.06	0.06	0.09



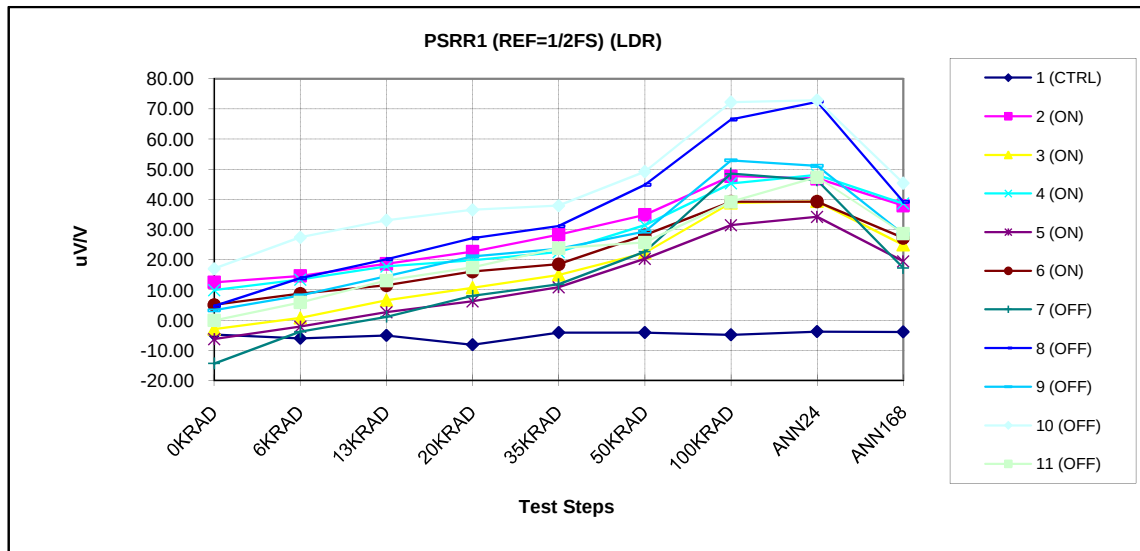
PSRR2 (REF=FS-1LSB) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.003	-0.002	0.006	0.011	0.014	0.014	0.019	0.020	0.000
ELDR OFF	-0.006	0.005	0.021	0.031	0.042	0.058	0.106	0.089	0.018
LDR ON	0.002	0.006	0.015	0.016	0.022	0.028	0.038	0.038	0.011
LDR OFF	0.029	0.034	0.038	0.037	0.036	0.036	0.050	0.050	0.033



PSRR1 (REF=1/2FS) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-667	-667	-667	-667	-667	-667	-667	-667	-667
Max	667	667	667	667	667	667	667	667	667
Unit	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V
Control Results									
1 (CTRL)	7.32	9.48	10.96	10.45	9.42	10.50	10.05	6.28	7.73

Bias on results									
2 (ON)	22.357	28.566	33.660	37.322	43.268	52.229	71.570	71.723	53.504
3 (ON)	-3.030	-0.102	3.217	8.664	12.996	21.817	37.435	36.723	19.076
4 (ON)	-6.877	-3.814	2.420	12.110	16.222	29.296	47.122	44.688	25.158
5 (ON)	-13.146	-11.952	-8.132	-4.149	-0.120	10.726	24.034	22.527	15.265
6 (ON)	-2.447	-1.471	4.065	6.516	13.804	19.642	35.191	35.419	20.599
Statistics bias on									
min result	-13.15	-11.95	-8.13	-4.15	-0.12	10.73	24.03	22.53	15.27
max result	22.36	28.57	33.66	37.32	43.27	52.23	71.57	71.72	53.50
average	-0.63	2.25	7.05	12.09	17.23	26.74	43.07	42.22	26.72
sigma	13.54	15.41	15.68	15.36	15.89	15.71	17.92	18.31	15.39

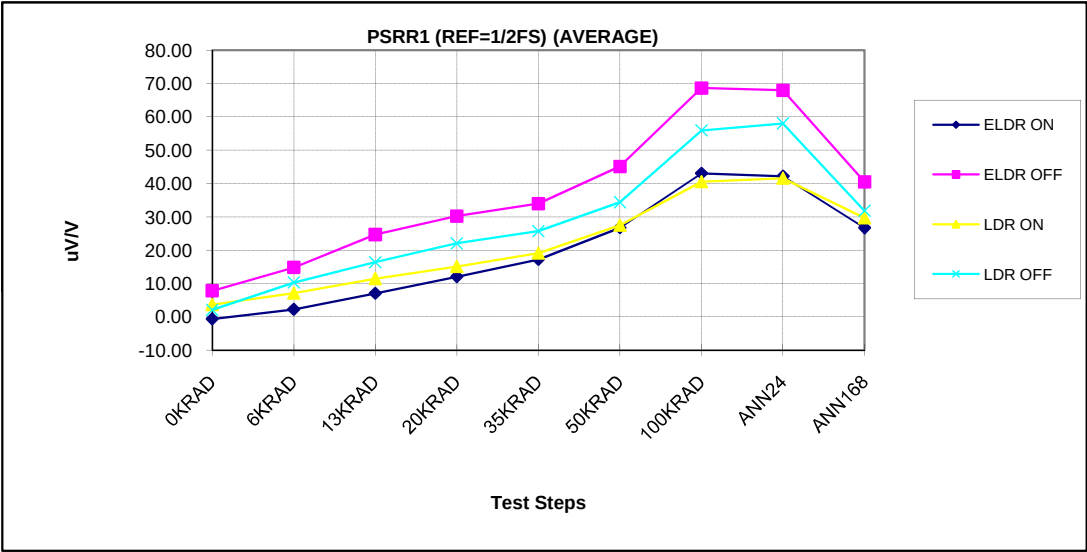
Bias off results									
7 (OFF)	23.96	22.00	30.52	37.98	39.61	55.94	81.37	77.60	45.81
8 (OFF)	2.86	11.08	22.19	25.54	30.23	44.36	73.15	66.85	35.58
9 (OFF)	-2.27	4.73	15.90	18.88	25.53	33.70	57.44	58.68	31.40
10 (OFF)	4.78	17.32	30.06	37.32	42.48	51.40	74.67	77.00	47.08
11 (OFF)	9.72	18.88	24.75	31.51	32.20	40.40	56.75	60.02	42.67
Statistics bias off									
min result	-2.27	4.73	15.90	18.88	25.53	33.70	56.75	58.68	31.40
max result	23.96	22.00	30.52	37.98	42.48	55.94	81.37	77.60	47.08
average	7.81	14.80	24.68	30.25	34.01	45.16	68.68	68.03	40.51
sigma	10.00	6.89	6.05	8.11	6.94	8.80	11.02	9.01	6.77



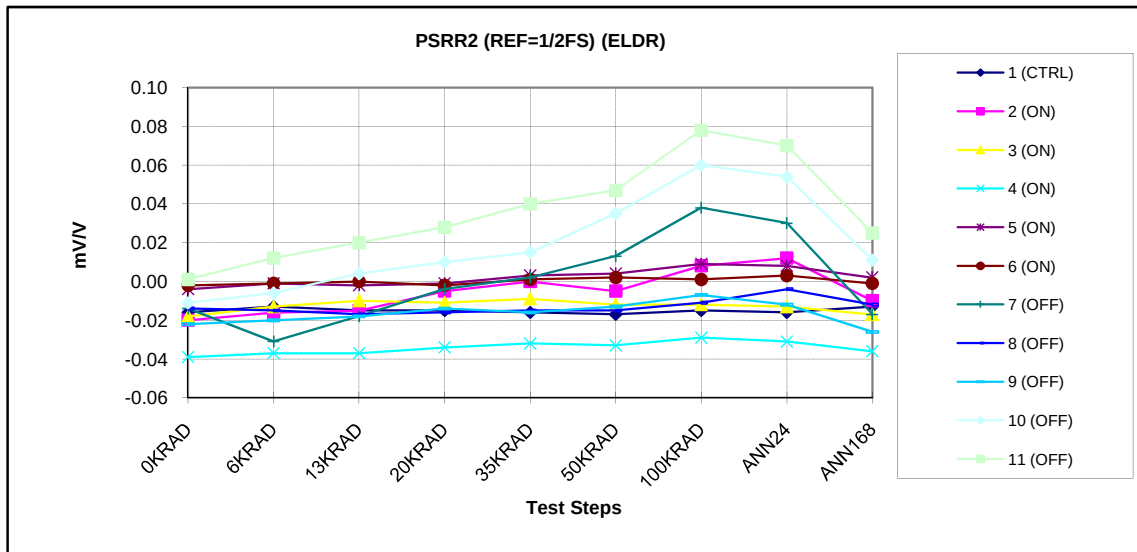
PSRR1 (REF=1/2FS) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-667	-667	-667	-667	-667	-667	-667	-667	-667
Max	667	667	667	667	667	667	667	667	667
Unit	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V	uV/V
Control Results									
1 (CTRL)	-4.76	-6.05	-5.09	-8.17	-4.14	-4.16	-4.87	-3.83	-3.93

Bias on results									
2 (ON)	12.56	14.71	18.67	22.71	28.39	34.93	47.71	46.92	37.98
3 (ON)	-2.97	0.72	6.60	10.76	15.02	22.28	38.85	39.41	24.97
4 (ON)	9.98	13.45	17.86	19.86	22.63	31.51	45.39	48.24	38.70
5 (ON)	-6.28	-2.12	2.68	6.24	10.95	20.34	31.50	34.27	19.50
6 (ON)	5.05	8.78	11.51	16.09	18.53	28.21	39.31	39.28	27.25
Statistics bias on									
min result	-6.28	-2.12	2.68	6.24	10.95	20.34	31.50	34.27	19.50
max result	12.56	14.71	18.67	22.71	28.39	34.93	47.71	48.24	38.70
average	3.67	7.11	11.46	15.13	19.10	27.46	40.55	41.63	29.68
sigma	8.12	7.53	6.96	6.69	6.75	6.13	6.34	5.84	8.39

Bias off results									
7 (OFF)	-14.41	-3.85	1.12	8.02	11.86	22.72	48.57	46.33	17.24
8 (OFF)	4.63	13.89	20.19	27.16	31.14	44.85	66.50	72.39	39.20
9 (OFF)	3.24	8.15	14.47	21.10	23.66	29.38	52.98	51.13	28.52
10 (OFF)	17.06	27.46	33.15	36.59	37.95	49.27	72.30	72.97	45.46
11 (OFF)	-0.10	5.87	13.12	17.47	23.85	25.75	39.25	47.44	28.72
Statistics bias off									
min result	-14.41	-3.85	1.12	8.02	11.86	22.72	39.25	46.33	17.24
max result	17.06	27.46	33.15	36.59	37.95	49.27	72.30	72.97	45.46
average	2.08	10.30	16.41	22.07	25.69	34.39	55.92	58.05	31.83
sigma	11.28	11.53	11.65	10.68	9.73	11.91	13.42	13.47	10.88



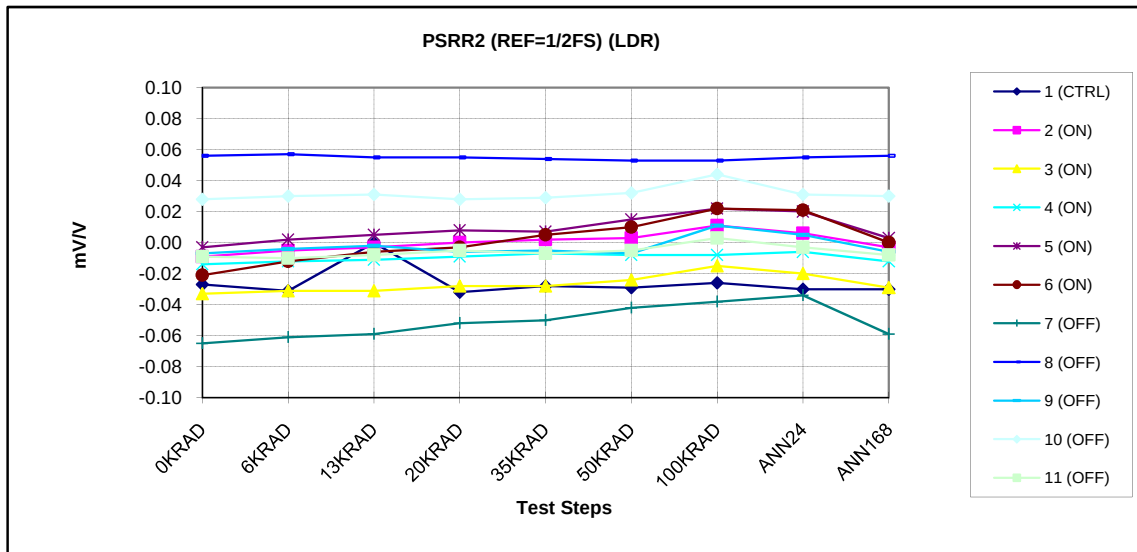
PSRR1 (REF=1/2FS) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.63	2.25	7.05	12.09	17.23	26.74	43.07	42.22	26.72
ELDR OFF	7.81	14.80	24.68	30.25	34.01	45.16	68.68	68.03	40.51
LDR ON	3.67	7.11	11.46	15.13	19.10	27.46	40.55	41.63	29.68
LDR OFF	2.08	10.30	16.41	22.07	25.69	34.39	55.92	58.05	31.83



PSRR2 (REF=1/2FS) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667
Max	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
Unit	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V
Control Results									
1 (CTRL)	-0.016	-0.013	-0.015	-0.015	-0.016	-0.017	-0.015	-0.016	-0.013

Bias on results									
2 (ON)	-0.020	-0.016	-0.015	-0.005	0.000	-0.005	0.008	0.012	-0.010
3 (ON)	-0.018	-0.013	-0.010	-0.011	-0.009	-0.012	-0.012	-0.013	-0.017
4 (ON)	-0.039	-0.037	-0.037	-0.034	-0.032	-0.033	-0.029	-0.031	-0.036
5 (ON)	-0.004	-0.001	-0.002	-0.001	0.003	0.004	0.009	0.008	0.002
6 (ON)	-0.002	-0.001	0.000	-0.002	0.001	0.002	0.001	0.003	-0.001
Statistics bias on									
min result	-0.039	-0.037	-0.037	-0.034	-0.032	-0.033	-0.029	-0.031	-0.036
max result	-0.002	-0.001	0.000	-0.001	0.003	0.004	0.009	0.012	0.002
average	-0.017	-0.014	-0.013	-0.011	-0.007	-0.009	-0.005	-0.004	-0.012
sigma	0.015	0.015	0.015	0.014	0.015	0.015	0.016	0.018	0.015

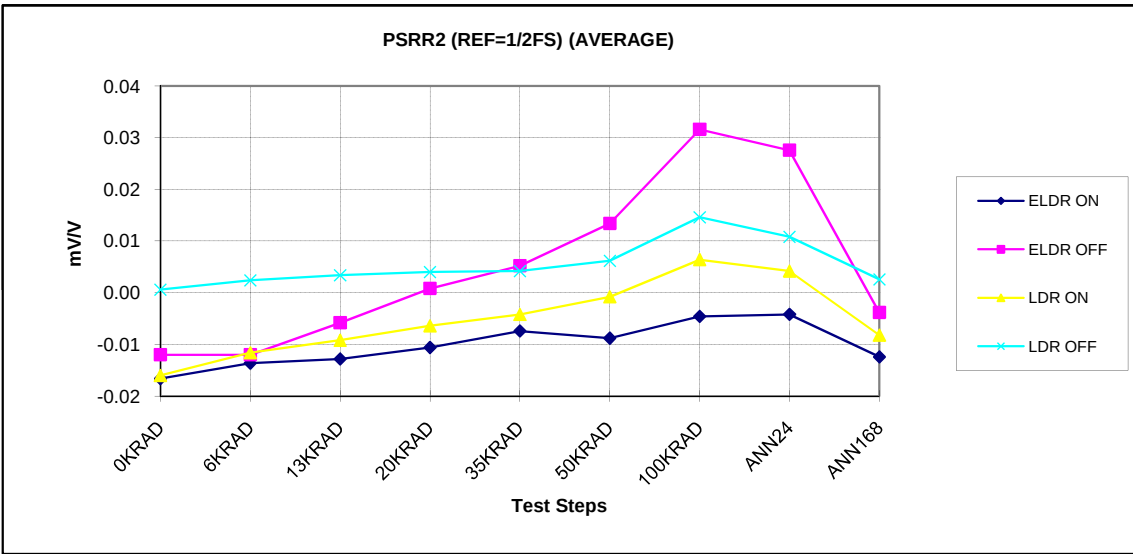
Bias off results									
7 (OFF)	-0.014	-0.031	-0.018	-0.004	0.002	0.013	0.038	0.030	-0.017
8 (OFF)	-0.014	-0.015	-0.017	-0.016	-0.015	-0.015	-0.011	-0.004	-0.012
9 (OFF)	-0.022	-0.020	-0.018	-0.014	-0.016	-0.013	-0.007	-0.012	-0.026
10 (OFF)	-0.011	-0.006	0.004	0.010	0.015	0.035	0.060	0.054	0.011
11 (OFF)	0.001	0.012	0.020	0.028	0.040	0.047	0.078	0.070	0.025
Statistics bias off									
min result	-0.022	-0.031	-0.018	-0.016	-0.016	-0.015	-0.011	-0.012	-0.026
max result	0.001	0.012	0.020	0.028	0.040	0.047	0.078	0.070	0.025
average	-0.012	-0.012	-0.006	0.001	0.005	0.013	0.032	0.028	-0.004
sigma	0.008	0.016	0.017	0.018	0.023	0.028	0.040	0.036	0.021



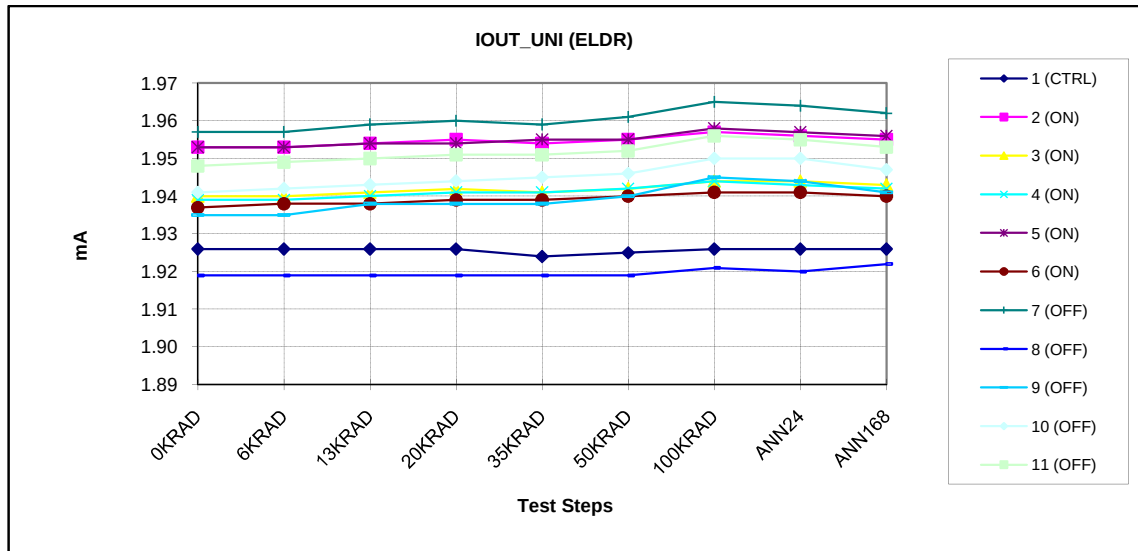
PSRR2 (REF=1/2FS) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667	-1.667
Max	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
Unit	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V	mV/V
Control Results									
1 (CTRL)	-0.027	-0.031	0.000	-0.032	-0.028	-0.029	-0.026	-0.030	-0.030

Bias on results									
2 (ON)	-0.009	-0.005	-0.003	0.000	0.002	0.003	0.011	0.006	-0.003
3 (ON)	-0.033	-0.031	-0.031	-0.028	-0.028	-0.024	-0.015	-0.020	-0.029
4 (ON)	-0.014	-0.012	-0.011	-0.009	-0.007	-0.008	-0.008	-0.006	-0.012
5 (ON)	-0.003	0.002	0.005	0.008	0.007	0.015	0.022	0.020	0.003
6 (ON)	-0.021	-0.012	-0.006	-0.003	0.005	0.010	0.022	0.021	0.000
Statistics bias on									
min result	-0.033	-0.031	-0.031	-0.028	-0.028	-0.024	-0.015	-0.020	-0.029
max result	-0.003	0.002	0.005	0.008	0.007	0.015	0.022	0.021	0.003
average	-0.016	-0.012	-0.009	-0.006	-0.004	-0.001	0.006	0.004	-0.008
sigma	0.012	0.012	0.013	0.014	0.014	0.016	0.017	0.017	0.013

Bias off results									
7 (OFF)	-0.065	-0.061	-0.059	-0.052	-0.050	-0.042	-0.038	-0.034	-0.059
8 (OFF)	0.056	0.057	0.055	0.055	0.054	0.053	0.053	0.055	0.056
9 (OFF)	-0.007	-0.004	-0.002	-0.006	-0.005	-0.007	0.011	0.005	-0.006
10 (OFF)	0.028	0.030	0.031	0.028	0.029	0.032	0.044	0.031	0.030
11 (OFF)	-0.009	-0.010	-0.008	-0.005	-0.007	-0.005	0.003	-0.003	-0.008
Statistics bias off									
min result	-0.065	-0.061	-0.059	-0.052	-0.050	-0.042	-0.038	-0.034	-0.059
max result	0.056	0.057	0.055	0.055	0.054	0.053	0.053	0.055	0.056
average	0.001	0.002	0.003	0.004	0.004	0.006	0.015	0.011	0.003
sigma	0.045	0.045	0.043	0.040	0.040	0.037	0.036	0.034	0.044



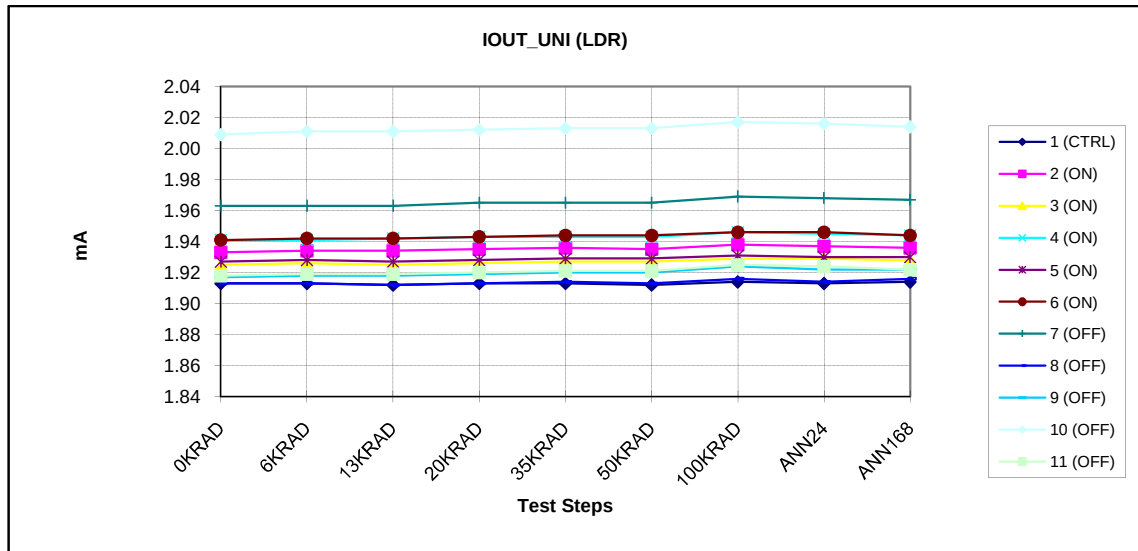
PSRR2 (REF=1/2FS) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	0.00	-0.01
ELDR OFF	-0.01	-0.01	-0.01	0.00	0.01	0.01	0.03	0.03	0.00
LDR ON	-0.02	-0.01	-0.01	-0.01	0.00	0.00	0.01	0.00	-0.01
LDR OFF	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00



IOUT_UNI (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Max	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	1.93	1.93	1.93	1.93	1.92	1.93	1.93	1.93	1.93

Bias on results									
2 (ON)	1.95	1.95	1.95	1.96	1.95	1.96	1.96	1.96	1.96
3 (ON)	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
4 (ON)	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
5 (ON)	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96
6 (ON)	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
Statistics bias on									
min result	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
max result	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.96
average	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.95
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

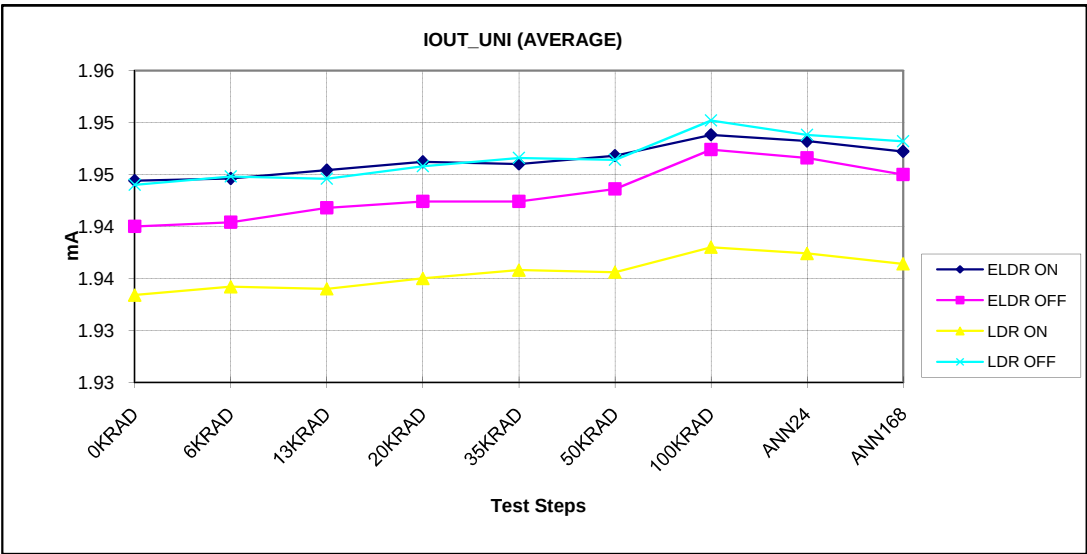
Bias off results									
7 (OFF)	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.96	1.96
8 (OFF)	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
9 (OFF)	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.94	1.94
10 (OFF)	1.94	1.94	1.94	1.94	1.95	1.95	1.95	1.95	1.95
11 (OFF)	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.95
Statistics bias off									
min result	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
max result	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.96	1.96
average	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.95
sigma	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02



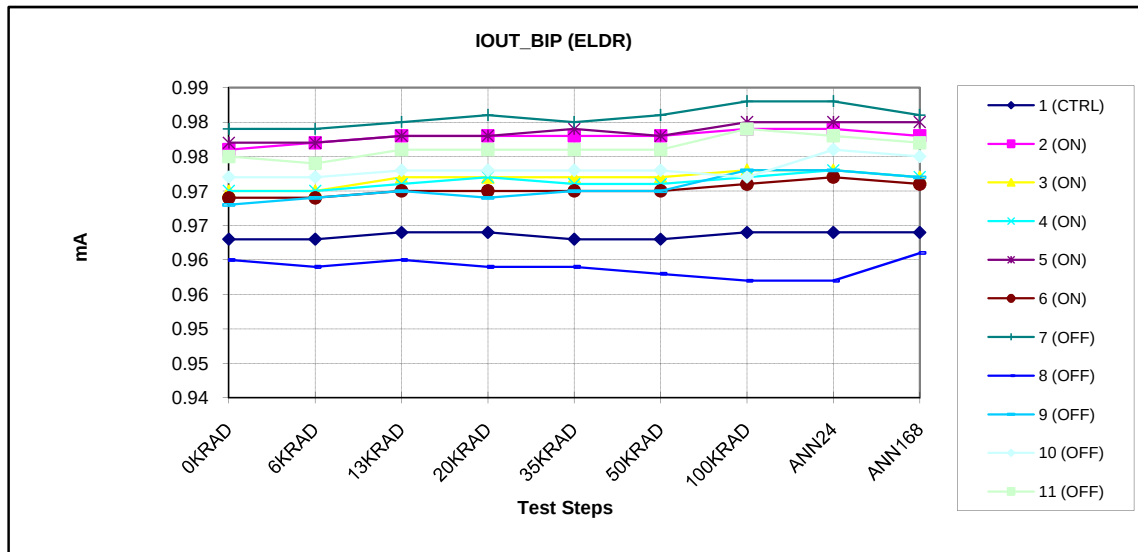
IOUT_UNI (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Max	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91

Bias on results									
2 (ON)	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.94
3 (ON)	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93
4 (ON)	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.94
5 (ON)	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93
6 (ON)	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.94
Statistics bias on									
min result	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93
max result	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.94
average	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.94
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Bias off results									
7 (OFF)	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.97
8 (OFF)	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.91	1.92
9 (OFF)	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
10 (OFF)	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.01
11 (OFF)	1.92	1.92	1.92	1.92	1.92	1.92	1.93	1.92	1.92
Statistics bias off									
min result	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.91	1.92
max result	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.01
average	1.94	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95
sigma	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04



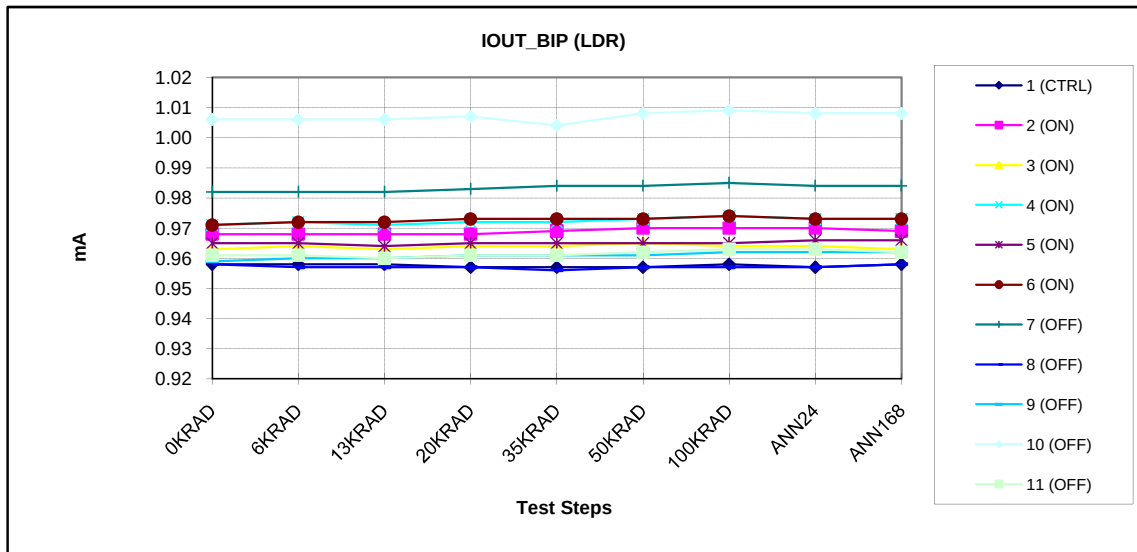
IOUT_UNI (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.95
ELDR OFF	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.95
LDR ON	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.94
LDR OFF	1.94	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95



IOUT_BIP (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Max	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96

Bias on results									
2 (ON)	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
3 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
4 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
5 (ON)	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
6 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Statistics bias on									
min result	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
max result	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
average	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.98	0.97
sigma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

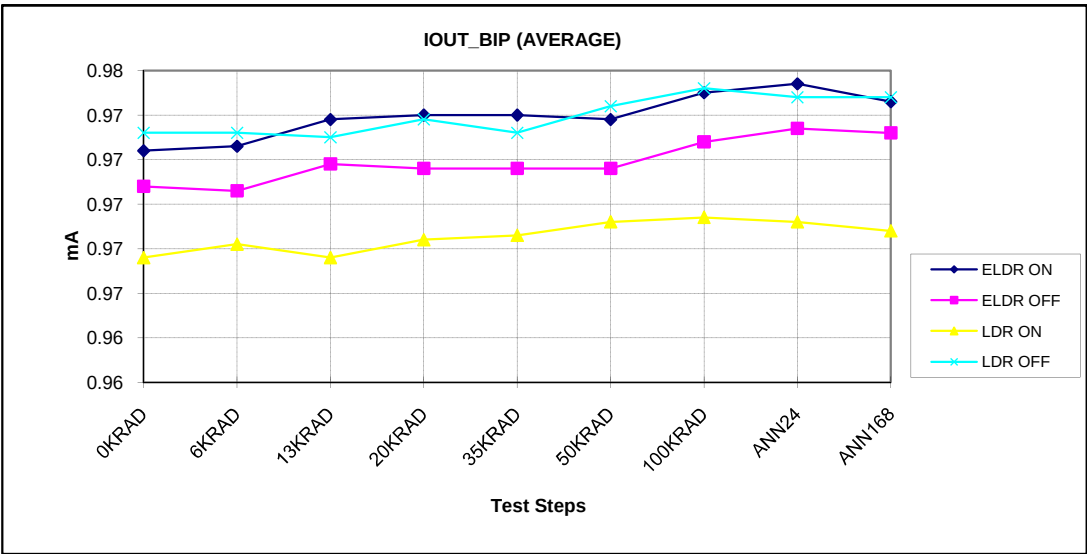
Bias off results									
7 (OFF)	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
8 (OFF)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
9 (OFF)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
10 (OFF)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.98
11 (OFF)	0.98	0.97	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Statistics bias off									
min result	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
max result	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
average	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



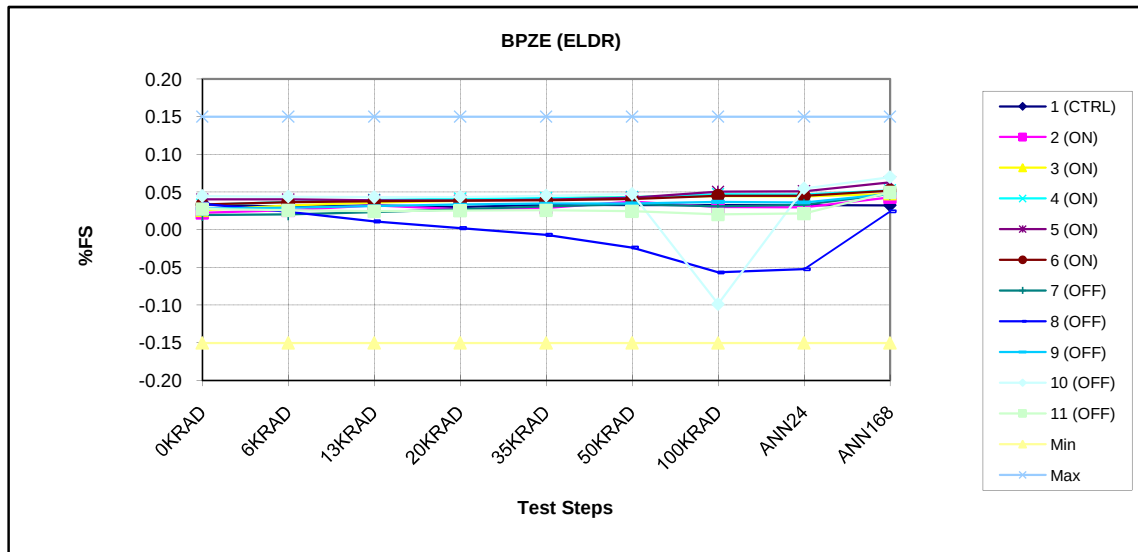
IOUT_BIP (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Max	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96

Bias on results									
2 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
3 (ON)	0.96	0.96	0.96	0.96	0.96	0.97	0.96	0.96	0.96
4 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
5 (ON)	0.97	0.97	0.96	0.97	0.97	0.97	0.97	0.97	0.97
6 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Statistics bias on									
min result	0.96	0.96	0.96	0.96	0.96	0.97	0.96	0.96	0.96
max result	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
average	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
sigma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Bias off results									
7 (OFF)	0.98	0.982	0.98	0.98	0.98	0.98	0.99	0.98	0.98
8 (OFF)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
9 (OFF)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
10 (OFF)	1.01	1.01	1.01	1.01	1.00	1.01	1.01	1.01	1.01
11 (OFF)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Statistics bias off									
min result	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
max result	1.01	1.01	1.01	1.01	1.00	1.01	1.01	1.01	1.01
average	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.97	0.97
sigma	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02



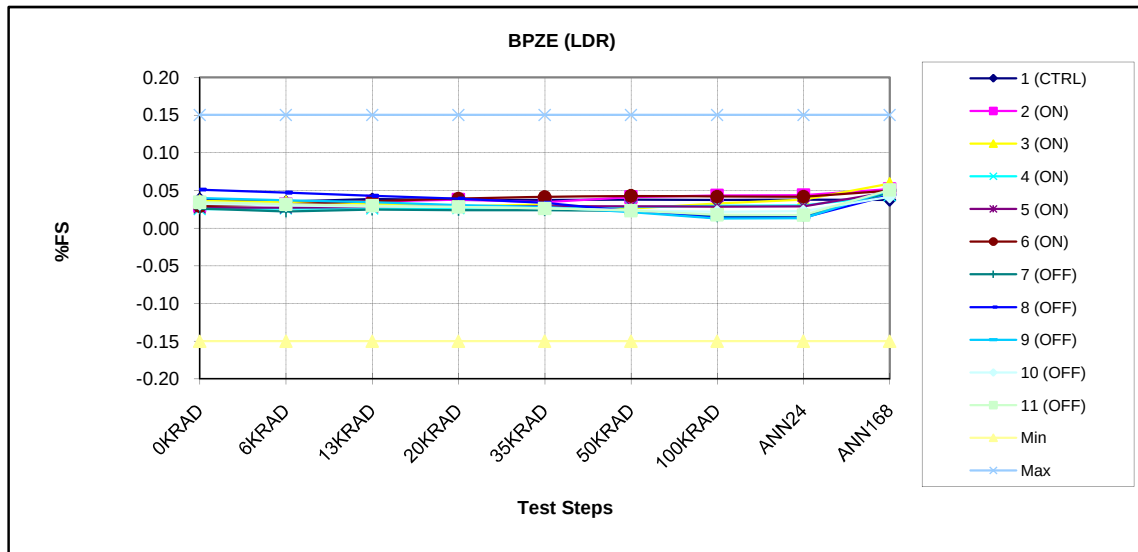
IOUT_BIP (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.98	0.97
ELDR OFF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
LDR ON	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
LDR OFF	0.97	0.97	0.97	0.97	0.97	0.97	0.98	0.97	0.97



BPZE (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
Max	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Unit	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS
Control Results									
1 (CTRL)	0.0331	0.0306	0.0324	0.0303	0.0333	0.0328	0.0326	0.0329	0.0325

Bias on results									
2 (ON)	0.0226	0.0259	0.0325	0.0273	0.0291	0.0374	0.0303	0.0299	0.0430
3 (ON)	0.0260	0.0322	0.0361	0.0384	0.0416	0.0434	0.0447	0.0445	0.0478
4 (ON)	0.0333	0.0369	0.0396	0.0415	0.0424	0.0435	0.0471	0.0467	0.0524
5 (ON)	0.0403	0.0402	0.0389	0.0386	0.0398	0.0424	0.0505	0.0512	0.0630
6 (ON)	0.0336	0.0365	0.0377	0.0386	0.0391	0.0407	0.0453	0.0450	0.0519
Statistics bias on									
min result	0.0226	0.0259	0.0325	0.0273	0.0291	0.0374	0.0303	0.0299	0.0430
max result	0.0403	0.0402	0.0396	0.0415	0.0424	0.0435	0.0505	0.0512	0.0630
average	0.0311	0.0344	0.0370	0.0369	0.0384	0.0415	0.0436	0.0434	0.0516
sigma	0.0070	0.0055	0.0028	0.0055	0.0053	0.0025	0.0078	0.0080	0.0074

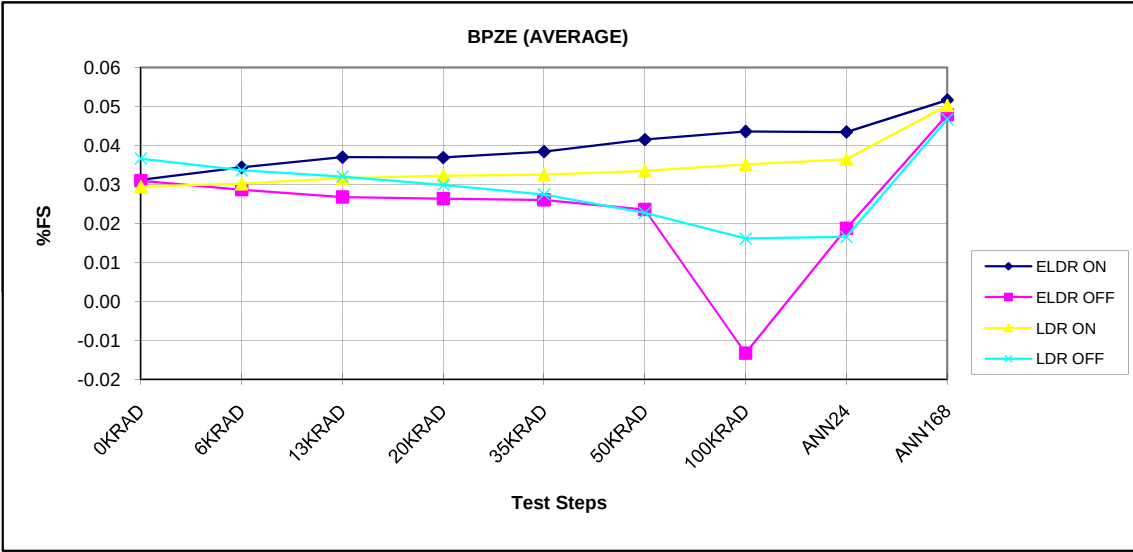
Bias off results									
7 (OFF)	0.0196	0.0204	0.0234	0.0273	0.0312	0.0343	0.0311	0.0331	0.0478
8 (OFF)	0.0345	0.0237	0.0111	0.0022	-0.0068	-0.0235	-0.0565	-0.0524	0.0244
9 (OFF)	0.0280	0.0293	0.0313	0.0335	0.0347	0.0349	0.0371	0.0363	0.0477
10 (OFF)	0.0449	0.0441	0.0433	0.0437	0.0454	0.0476	-0.0985	0.0550	0.0698
11 (OFF)	0.0276	0.0257	0.0246	0.0252	0.0256	0.0245	0.0203	0.0216	0.0496
Statistics bias off									
min result	0.0196	0.0204	0.0111	0.0022	-0.0068	-0.0235	-0.0985	-0.0524	0.0244
max result	0.0449	0.0441	0.0433	0.0437	0.0454	0.0476	0.0371	0.0550	0.0698
average	0.0309	0.0286	0.0267	0.0264	0.0260	0.0236	-0.0133	0.0187	0.0479
sigma	0.0094	0.0092	0.0118	0.0153	0.0197	0.0276	0.0607	0.0415	0.0161



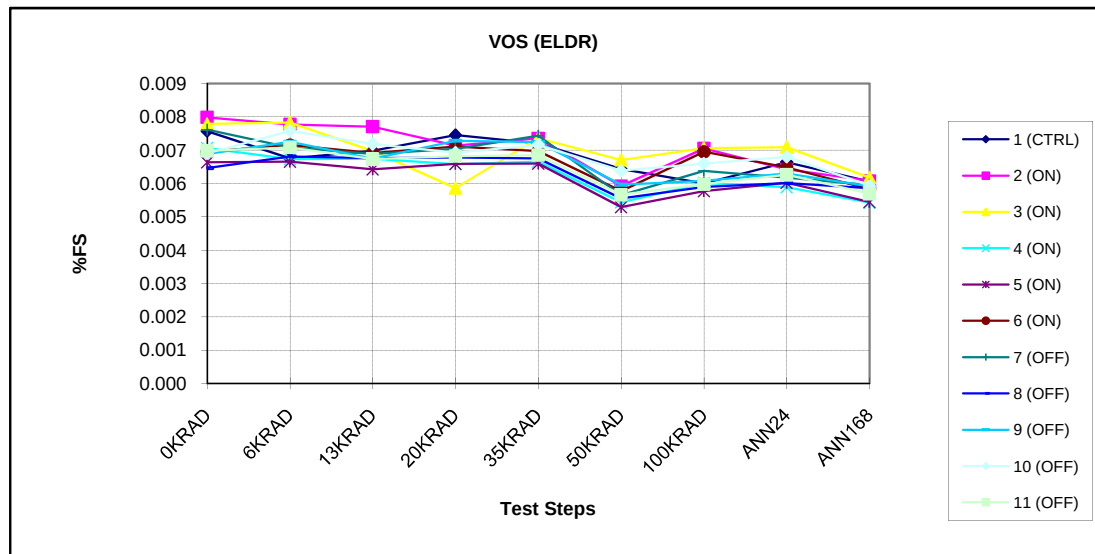
BPZE (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15
Max	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Unit	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS
Control Results									
1 (CTRL)	0.0385	0.0350	0.0384	0.0372	0.0372	0.0375	0.0372	0.0376	0.0374

Bias on results									
2 (ON)	0.0297	0.0317	0.0353	0.0379	0.0343	0.0410	0.0432	0.0438	0.0518
3 (ON)	0.0360	0.0344	0.0324	0.0290	0.0314	0.0259	0.0325	0.0378	0.0587
4 (ON)	0.0251	0.0259	0.0260	0.0265	0.0268	0.0283	0.0296	0.0301	0.0433
5 (ON)	0.0272	0.0273	0.0285	0.0285	0.0288	0.0294	0.0285	0.0289	0.0478
6 (ON)	0.0292	0.0315	0.0360	0.0392	0.0411	0.0428	0.0418	0.0417	0.0496
Statistics bias on									
min result	0.0251	0.0259	0.0260	0.0265	0.0268	0.0259	0.0285	0.0289	0.0433
max result	0.0360	0.0344	0.0360	0.0392	0.0411	0.0428	0.0432	0.0438	0.0587
average	0.0294	0.0301	0.0316	0.0322	0.0325	0.0335	0.0351	0.0364	0.0502
sigma	0.0041	0.0035	0.0043	0.0059	0.0056	0.0078	0.0069	0.0067	0.0057

Bias off results									
7 (OFF)	0.0258	0.0219	0.0244	0.0238	0.0236	0.0230	0.0153	0.0158	0.0473
8 (OFF)	0.0509	0.0469	0.0427	0.0390	0.0333	0.0223	0.0133	0.0138	0.0437
9 (OFF)	0.0398	0.0372	0.0345	0.0306	0.0280	0.0211	0.0127	0.0132	0.0502
10 (OFF)	0.0322	0.0302	0.0286	0.0278	0.0261	0.0236	0.0215	0.0223	0.0417
11 (OFF)	0.0343	0.0317	0.0298	0.0280	0.0260	0.0232	0.0177	0.0173	0.0505
Statistics bias off									
min result	0.0258	0.0219	0.0244	0.0238	0.0236	0.0211	0.0127	0.0132	0.0417
max result	0.0509	0.0469	0.0427	0.0390	0.0333	0.0236	0.0215	0.0223	0.0505
average	0.0366	0.0336	0.0320	0.0299	0.0274	0.0226	0.0161	0.0165	0.0467
sigma	0.0094	0.0093	0.0070	0.0057	0.0037	0.0010	0.0036	0.0036	0.0039



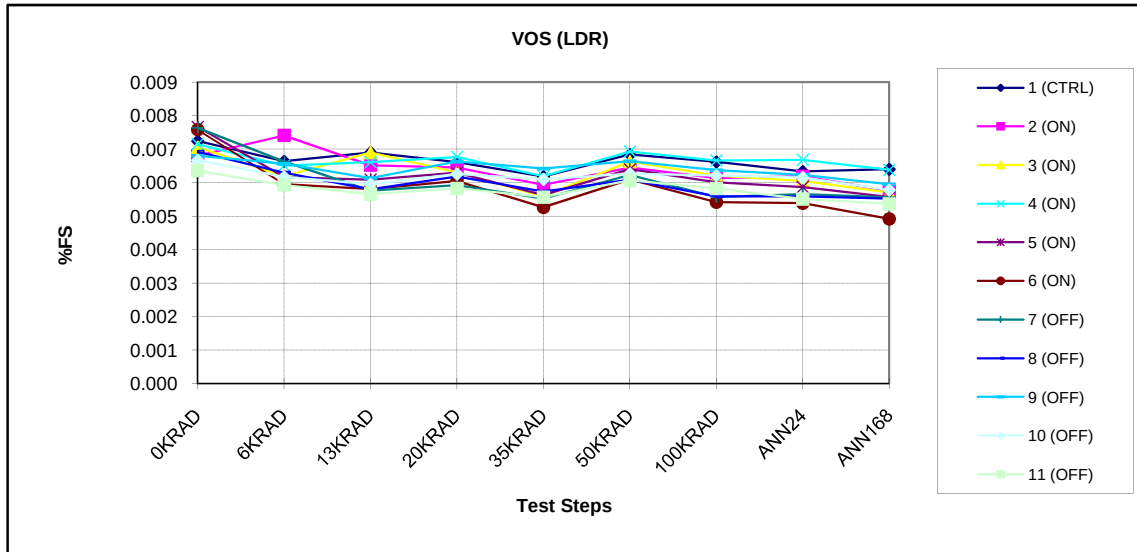
BPZE (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05
ELDR OFF	0.03	0.03	0.03	0.03	0.03	0.02	-0.01	0.02	0.05
LDR ON	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05
LDR OFF	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.05



VOS (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
Max	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Unit	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS
Control Results									
1 (CTRL)	0.0076	0.0068	0.0070	0.0075	0.0072	0.0064	0.0060	0.0066	0.0061

Bias on results									
2 (ON)	0.0080	0.0078	0.0077	0.0071	0.0074	0.0059	0.0071	0.0064	0.0061
3 (ON)	0.0078	0.0078	0.0070	0.0059	0.0074	0.0067	0.0071	0.0071	0.0062
4 (ON)	0.0071	0.0067	0.0067	0.0066	0.0067	0.0054	0.0060	0.0059	0.0054
5 (ON)	0.0066	0.0067	0.0064	0.0066	0.0066	0.0053	0.0058	0.0060	0.0054
6 (ON)	0.0070	0.0072	0.0069	0.0071	0.0070	0.0058	0.0070	0.0065	0.0058
Statistics bias on									
min result	0.0066	0.0067	0.0064	0.0059	0.0066	0.0053	0.0058	0.0059	0.0054
max result	0.0080	0.0078	0.0077	0.0071	0.0074	0.0067	0.0071	0.0071	0.0062
average	0.0073	0.0072	0.0069	0.0067	0.0070	0.0058	0.0066	0.0064	0.0058
sigma	0.0006	0.0006	0.0005	0.0005	0.0004	0.0006	0.0006	0.0005	0.0004

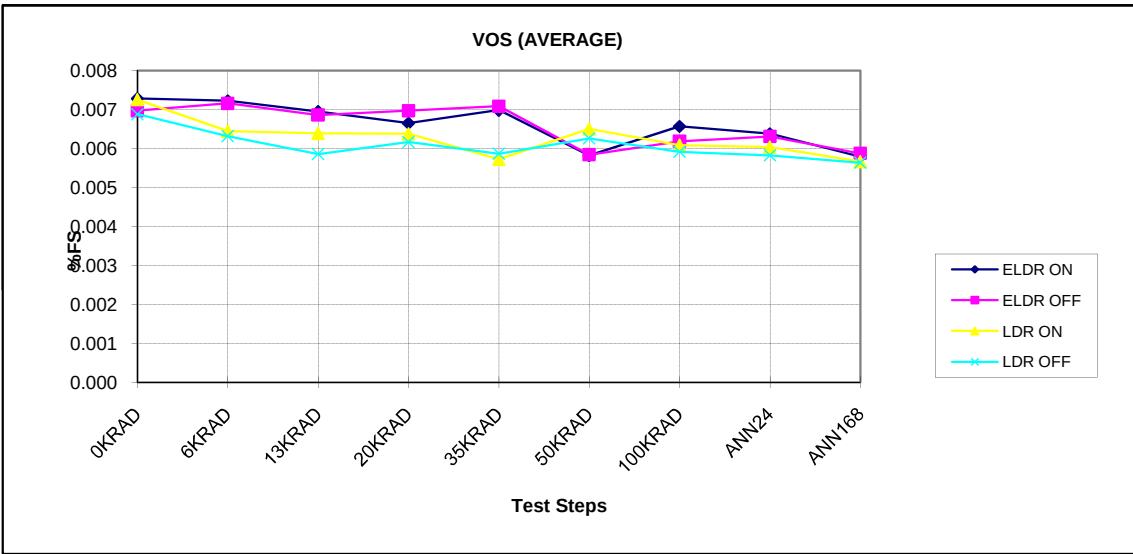
Bias off results									
7 (OFF)	0.0076	0.0071	0.0069	0.0070	0.0074	0.0057	0.0064	0.0062	0.0060
8 (OFF)	0.0065	0.0068	0.0068	0.0068	0.0068	0.0056	0.0059	0.0060	0.0059
9 (OFF)	0.0069	0.0073	0.0067	0.0073	0.0072	0.0060	0.0061	0.0063	0.0059
10 (OFF)	0.0069	0.0076	0.0072	0.0069	0.0072	0.0064	0.0066	0.0068	0.0059
11 (OFF)	0.0070	0.0071	0.0067	0.0068	0.0069	0.0057	0.0060	0.0063	0.0057
Statistics bias off									
min result	0.0065	0.0068	0.0067	0.0068	0.0068	0.0056	0.0059	0.0060	0.0057
max result	0.0076	0.0076	0.0072	0.0073	0.0074	0.0064	0.0066	0.0068	0.0060
average	0.0070	0.0072	0.0069	0.0070	0.0071	0.0058	0.0062	0.0063	0.0059
sigma	0.0004	0.0003	0.0002	0.0002	0.0003	0.0003	0.0003	0.0003	0.0001



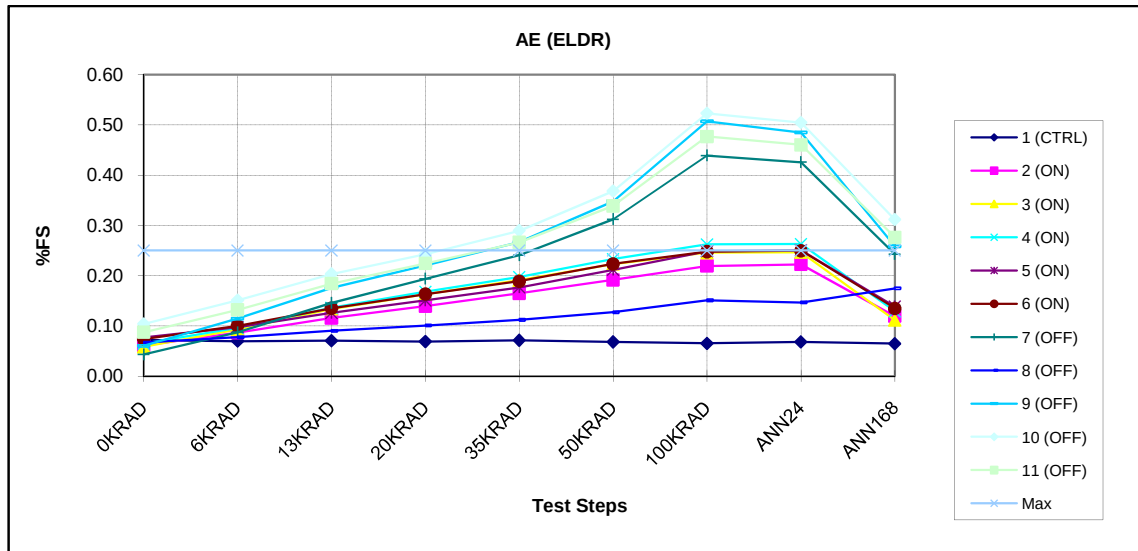
VOS (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
Max	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Unit	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS
Control Results									
1 (CTRL)	0.0072	0.0066	0.0069	0.0066	0.0062	0.0068	0.0066	0.0063	0.0064

Bias on results									
2 (ON)	0.0068	0.0074	0.0065	0.0065	0.0059	0.0065	0.0061	0.0062	0.0058
3 (ON)	0.0071	0.0062	0.0069	0.0063	0.0056	0.0066	0.0062	0.0061	0.0057
4 (ON)	0.0072	0.0065	0.0066	0.0068	0.0062	0.0069	0.0067	0.0067	0.0064
5 (ON)	0.0077	0.0062	0.0061	0.0063	0.0056	0.0064	0.0060	0.0059	0.0056
6 (ON)	0.0076	0.0060	0.0058	0.0061	0.0053	0.0061	0.0054	0.0054	0.0049
Statistics bias on									
min result	0.0068	0.0060	0.0058	0.0061	0.0053	0.0061	0.0054	0.0054	0.0049
max result	0.0077	0.0074	0.0069	0.0068	0.0062	0.0069	0.0067	0.0067	0.0064
average	0.0073	0.0064	0.0064	0.0064	0.0057	0.0065	0.0061	0.0060	0.0057
sigma	0.0004	0.0006	0.0004	0.0003	0.0004	0.0003	0.0004	0.0005	0.0005

Bias off results									
7 (OFF)	0.0076	0.0066	0.0058	0.0059	0.0055	0.0062	0.0056	0.0057	0.0056
8 (OFF)	0.0069	0.0063	0.0058	0.0062	0.0057	0.0061	0.0056	0.0056	0.0055
9 (OFF)	0.0068	0.0066	0.0061	0.0066	0.0064	0.0066	0.0064	0.0062	0.0060
10 (OFF)	0.0067	0.0062	0.0060	0.0063	0.0061	0.0063	0.0062	0.0062	0.0058
11 (OFF)	0.0064	0.0059	0.0057	0.0058	0.0056	0.0061	0.0058	0.0055	0.0054
Statistics bias off									
min result	0.0064	0.0059	0.0057	0.0058	0.0055	0.0061	0.0056	0.0055	0.0054
max result	0.0076	0.0066	0.0061	0.0066	0.0064	0.0066	0.0064	0.0062	0.0060
average	0.0069	0.0063	0.0059	0.0062	0.0059	0.0063	0.0059	0.0058	0.0056
sigma	0.0005	0.0003	0.0002	0.0003	0.0004	0.0002	0.0004	0.0003	0.0002



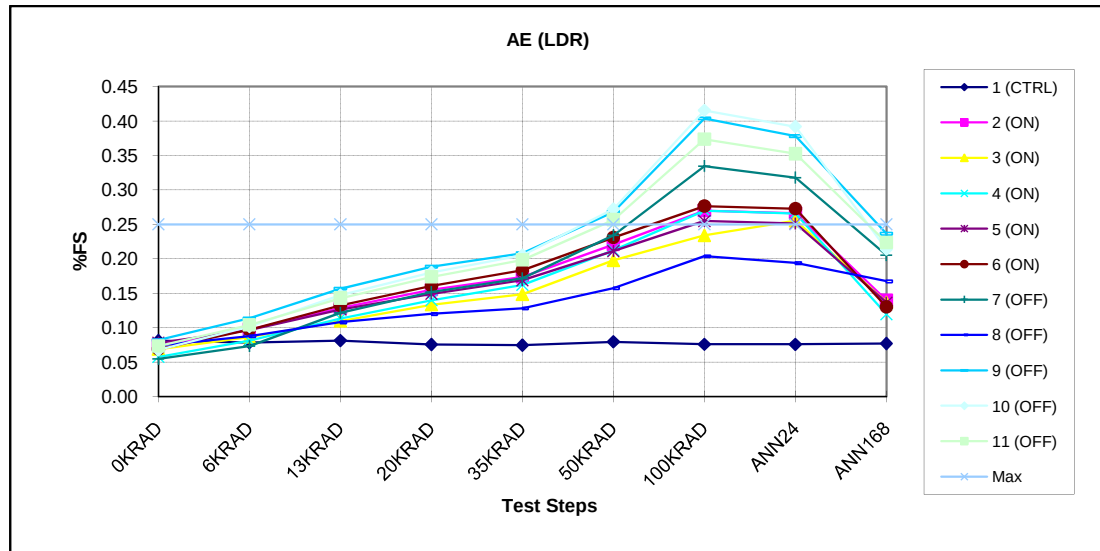
VOS (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ELDR OFF	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LDR ON	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LDR OFF	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



AE (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
Max	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Unit	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS
Control Results									
1 (CTRL)	0.072	0.069	0.070	0.069	0.071	0.068	0.065	0.068	0.064

Bias on results									
2 (ON)	0.061	0.086	0.116	0.139	0.165	0.191	0.219	0.222	0.119
3 (ON)	0.058	0.093	0.134	0.163	0.191	0.223	0.246	0.247	0.112
4 (ON)	0.064	0.096	0.136	0.168	0.197	0.232	0.262	0.263	0.129
5 (ON)	0.077	0.098	0.126	0.151	0.176	0.211	0.248	0.250	0.138
6 (ON)	0.074	0.100	0.135	0.163	0.189	0.223	0.248	0.249	0.135
Statistics bias on									
min result	0.058	0.086	0.116	0.139	0.165	0.191	0.219	0.222	0.112
max result	0.077	0.100	0.136	0.168	0.197	0.232	0.262	0.263	0.138
average	0.067	0.095	0.129	0.157	0.184	0.216	0.245	0.246	0.126
sigma	0.008	0.005	0.009	0.012	0.013	0.016	0.016	0.015	0.011

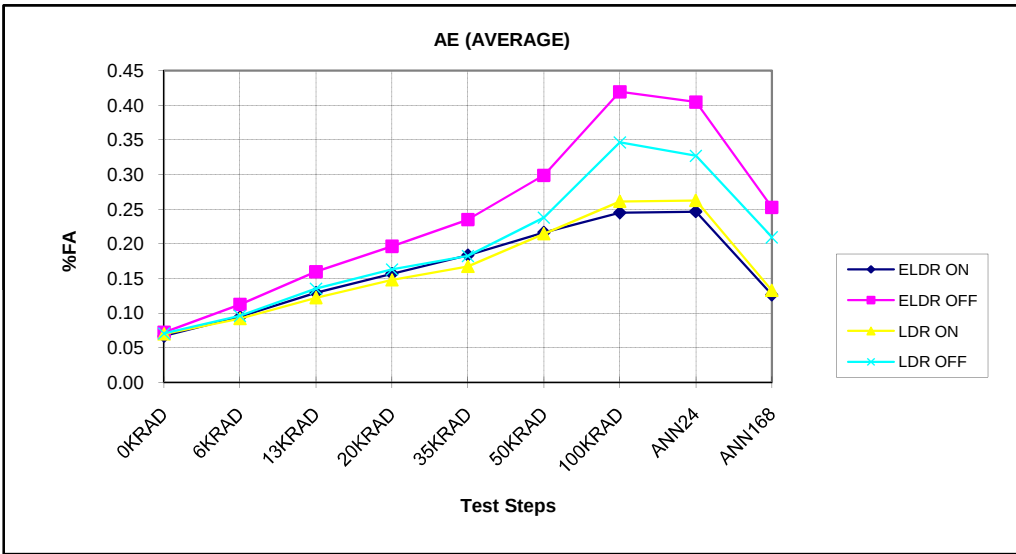
Bias off results									
7 (OFF)	0.043	0.087	0.145	0.194	0.240	0.312	0.439	0.426	0.243
8 (OFF)	0.066	0.077	0.090	0.101	0.112	0.127	0.151	0.147	0.175
9 (OFF)	0.060	0.114	0.175	0.220	0.266	0.347	0.507	0.485	0.258
10 (OFF)	0.104	0.151	0.203	0.242	0.289	0.368	0.523	0.504	0.311
11 (OFF)	0.087	0.132	0.184	0.224	0.266	0.339	0.477	0.460	0.276
Statistics bias off									
min result	0.043	0.077	0.090	0.101	0.112	0.127	0.151	0.147	0.175
max result	0.104	0.151	0.203	0.242	0.289	0.368	0.523	0.504	0.311
average	0.072	0.112	0.160	0.196	0.235	0.299	0.419	0.404	0.253
sigma	0.024	0.031	0.044	0.056	0.071	0.098	0.153	0.147	0.051



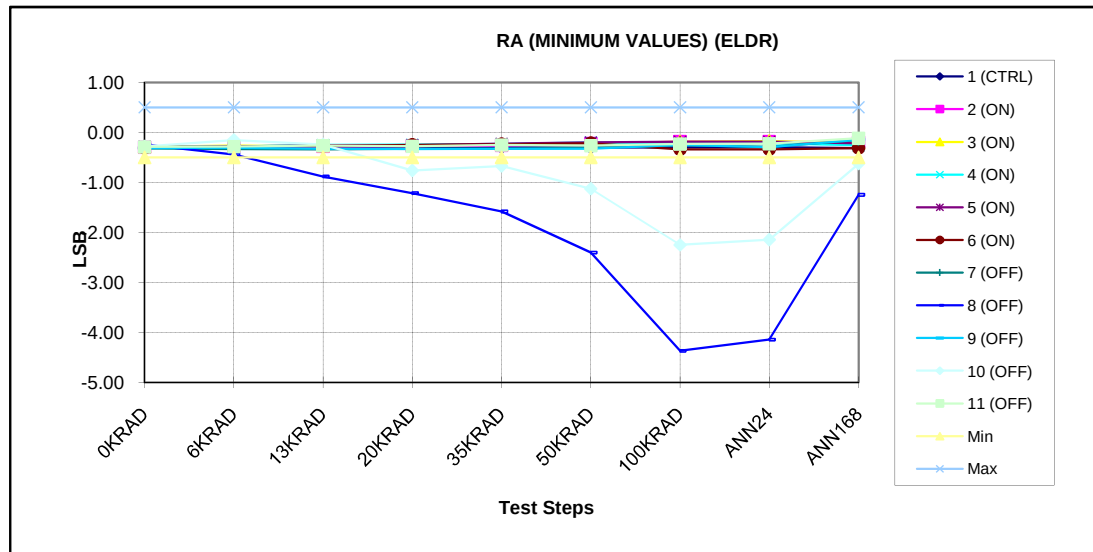
AE (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
Max	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Unit	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS	%FS
Control Results									
1 (CTRL)	0.081	0.079	0.081	0.076	0.075	0.080	0.076	0.076	0.077

Bias on results									
2 (ON)	0.075	0.097	0.129	0.155	0.174	0.221	0.270	0.266	0.140
3 (ON)	0.069	0.086	0.110	0.133	0.148	0.198	0.234	0.255	0.137
4 (ON)	0.058	0.081	0.113	0.140	0.162	0.212	0.270	0.266	0.119
5 (ON)	0.078	0.097	0.126	0.149	0.169	0.211	0.255	0.251	0.136
6 (ON)	0.069	0.097	0.133	0.161	0.184	0.231	0.277	0.273	0.130
Statistics bias on									
min result	0.058	0.081	0.110	0.133	0.148	0.198	0.234	0.251	0.119
max result	0.078	0.097	0.133	0.161	0.184	0.231	0.277	0.273	0.140
average	0.070	0.092	0.122	0.148	0.167	0.215	0.261	0.262	0.133
sigma	0.008	0.007	0.010	0.011	0.013	0.012	0.017	0.009	0.008

Bias off results									
7 (OFF)	0.055	0.073	0.122	0.152	0.172	0.234	0.335	0.318	0.205
8 (OFF)	0.074	0.088	0.108	0.120	0.128	0.157	0.204	0.194	0.167
9 (OFF)	0.082	0.114	0.157	0.189	0.208	0.268	0.404	0.378	0.236
10 (OFF)	0.068	0.102	0.147	0.180	0.205	0.272	0.415	0.392	0.214
11 (OFF)	0.074	0.104	0.143	0.174	0.198	0.257	0.374	0.352	0.223
Statistics bias off									
min result	0.055	0.073	0.108	0.120	0.128	0.157	0.204	0.194	0.167
max result	0.082	0.114	0.157	0.189	0.208	0.272	0.415	0.392	0.236
average	0.070	0.096	0.135	0.163	0.182	0.238	0.346	0.327	0.209
sigma	0.010	0.016	0.020	0.028	0.034	0.047	0.086	0.080	0.026



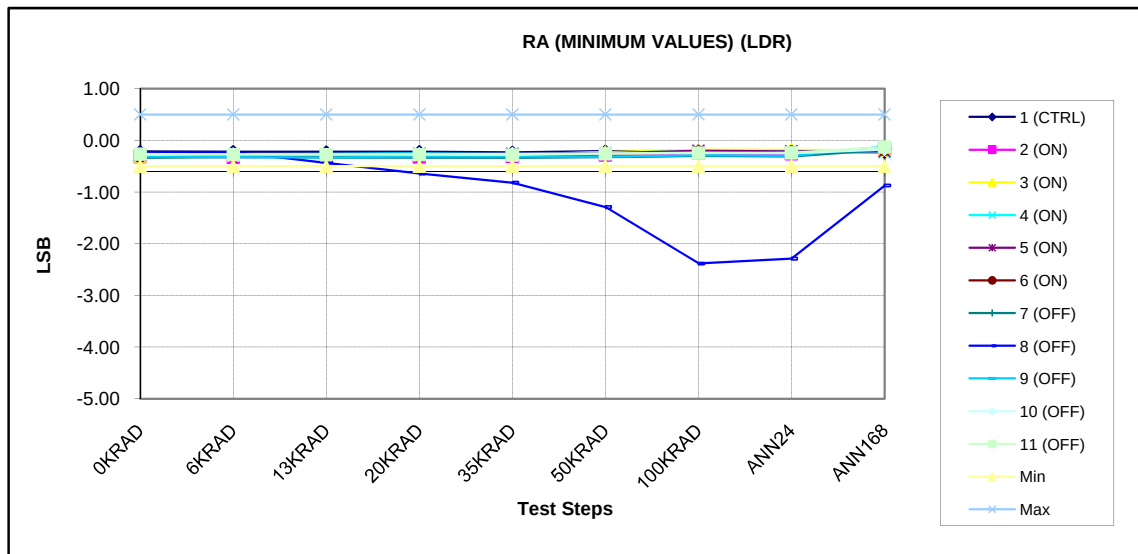
AE (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.07	0.09	0.13	0.16	0.18	0.22	0.24	0.25	0.13
ELDR OFF	0.07	0.11	0.16	0.20	0.23	0.30	0.42	0.40	0.25
LDR ON	0.07	0.09	0.12	0.15	0.17	0.21	0.26	0.26	0.13
LDR OFF	0.07	0.10	0.14	0.16	0.18	0.24	0.35	0.33	0.21



RA (MINIMUM VALUES) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Max	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	-0.30	-0.29	-0.30	-0.30	-0.30	-0.30	-0.30	-0.29	-0.32

Bias on results									
2 (ON)	-0.30	-0.29	-0.28	-0.28	-0.26	-0.22	-0.19	-0.19	-0.21
3 (ON)	-0.29	-0.26	-0.27	-0.27	-0.25	-0.21	-0.19	-0.17	-0.21
4 (ON)	-0.29	-0.28	-0.25	-0.25	-0.23	-0.20	-0.22	-0.22	-0.26
5 (ON)	-0.29	-0.28	-0.26	-0.26	-0.23	-0.20	-0.19	-0.19	-0.22
6 (ON)	-0.31	-0.28	-0.27	-0.25	-0.24	-0.22	-0.34	-0.34	-0.31
Statistics bias on									
min result	-0.31	-0.29	-0.28	-0.28	-0.26	-0.22	-0.34	-0.34	-0.31
max result	-0.29	-0.26	-0.25	-0.25	-0.23	-0.20	-0.19	-0.17	-0.21
average	-0.30	-0.28	-0.27	-0.26	-0.24	-0.21	-0.22	-0.22	-0.24
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.07	0.05

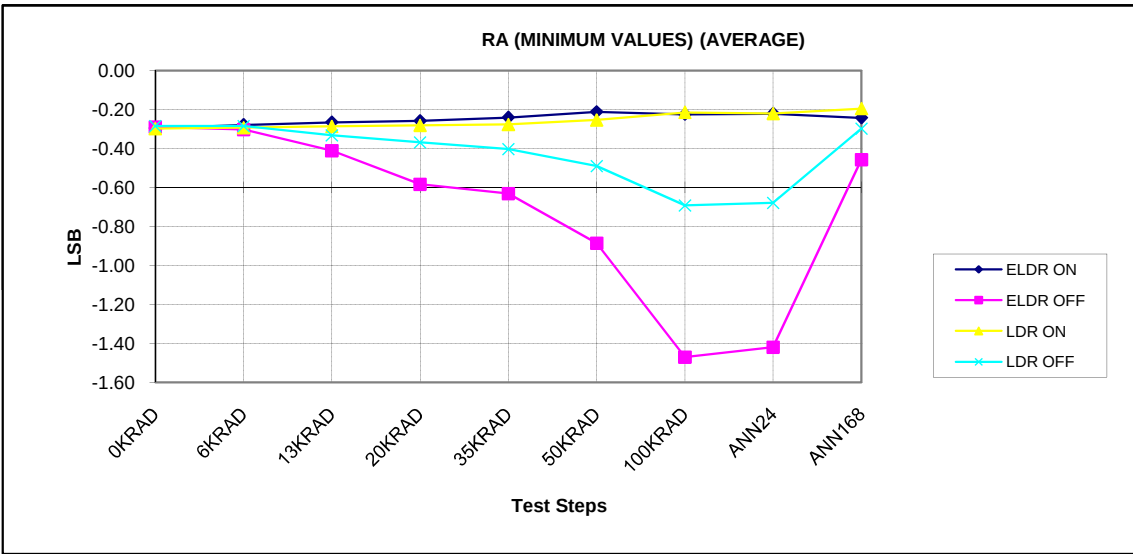
Bias off results									
7 (OFF)	-0.32	-0.34	-0.34	-0.33	-0.33	-0.31	-0.26	-0.29	-0.15
8 (OFF)	-0.25	-0.44	-0.88	-1.22	-1.58	-2.40	-4.37	-4.14	-1.25
9 (OFF)	-0.32	-0.30	-0.33	-0.33	-0.32	-0.32	-0.25	-0.29	-0.15
10 (OFF)	-0.28	-0.15	-0.24	-0.76	-0.67	-1.13	-2.25	-2.14	-0.63
11 (OFF)	-0.29	-0.28	-0.27	-0.28	-0.25	-0.27	-0.23	-0.23	-0.12
Statistics bias off									
min result	-0.32	-0.44	-0.88	-1.22	-1.58	-2.40	-4.37	-4.14	-1.25
max result	-0.25	-0.15	-0.24	-0.28	-0.25	-0.27	-0.23	-0.23	-0.12
average	-0.29	-0.30	-0.41	-0.58	-0.63	-0.89	-1.47	-1.42	-0.46
sigma	0.03	0.10	0.27	0.40	0.56	0.92	1.84	1.73	0.49



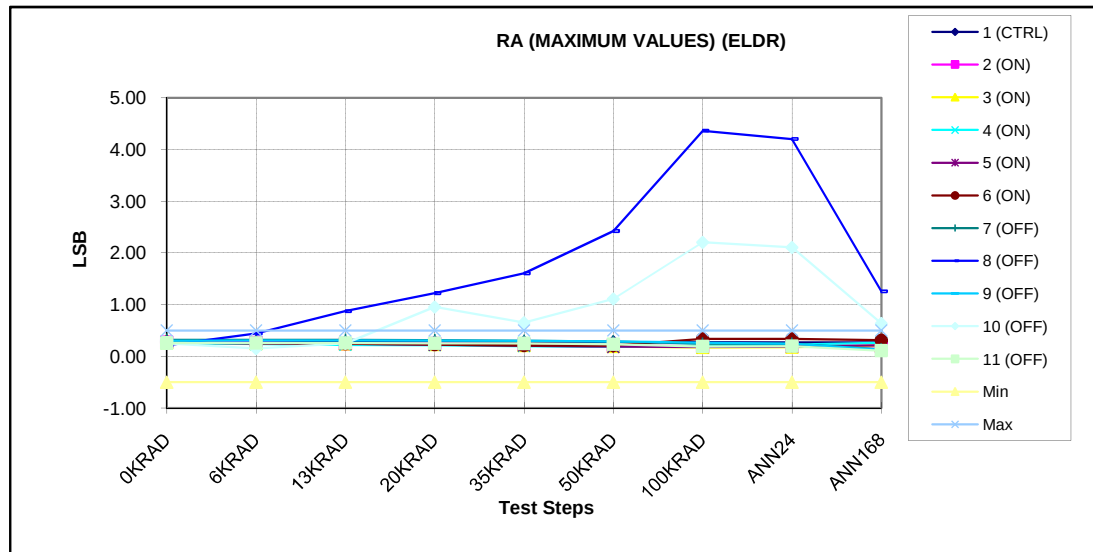
RA (MINIMUM VALUES) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Max	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	-0.22	-0.22	-0.22	-0.22	-0.23	-0.21	-0.21	-0.22	-0.23

Bias on results									
2 (ON)	-0.32	-0.33	-0.31	-0.32	-0.31	-0.29	-0.25	-0.26	-0.16
3 (ON)	-0.31	-0.29	-0.28	-0.26	-0.28	-0.23	-0.18	-0.18	-0.19
4 (ON)	-0.28	-0.27	-0.27	-0.26	-0.26	-0.24	-0.21	-0.21	-0.23
5 (ON)	-0.29	-0.28	-0.28	-0.26	-0.26	-0.25	-0.20	-0.21	-0.21
6 (ON)	-0.31	-0.30	-0.29	-0.31	-0.28	-0.26	-0.23	-0.23	-0.18
Statistics bias on									
min result	-0.32	-0.33	-0.31	-0.32	-0.31	-0.29	-0.25	-0.26	-0.23
max result	-0.28	-0.27	-0.27	-0.26	-0.26	-0.23	-0.18	-0.18	-0.16
average	-0.30	-0.29	-0.29	-0.28	-0.28	-0.25	-0.21	-0.22	-0.20
sigma	0.02	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.03

Bias off results									
7 (OFF)	-0.34	-0.33	-0.34	-0.34	-0.34	-0.33	-0.30	-0.32	-0.18
8 (OFF)	-0.23	-0.23	-0.44	-0.64	-0.82	-1.29	-2.38	-2.29	-0.87
9 (OFF)	-0.31	-0.32	-0.33	-0.31	-0.32	-0.32	-0.29	-0.30	-0.12
10 (OFF)	-0.28	-0.27	-0.28	-0.27	-0.26	-0.26	-0.24	-0.25	-0.18
11 (OFF)	-0.27	-0.28	-0.28	-0.28	-0.28	-0.26	-0.25	-0.24	-0.13
Statistics bias off									
min result	-0.34	-0.33	-0.44	-0.64	-0.82	-1.29	-2.38	-2.29	-0.87
max result	-0.23	-0.23	-0.28	-0.27	-0.26	-0.26	-0.24	-0.24	-0.12
average	-0.29	-0.28	-0.33	-0.37	-0.40	-0.49	-0.69	-0.68	-0.30
sigma	0.04	0.04	0.06	0.16	0.23	0.45	0.95	0.90	0.32



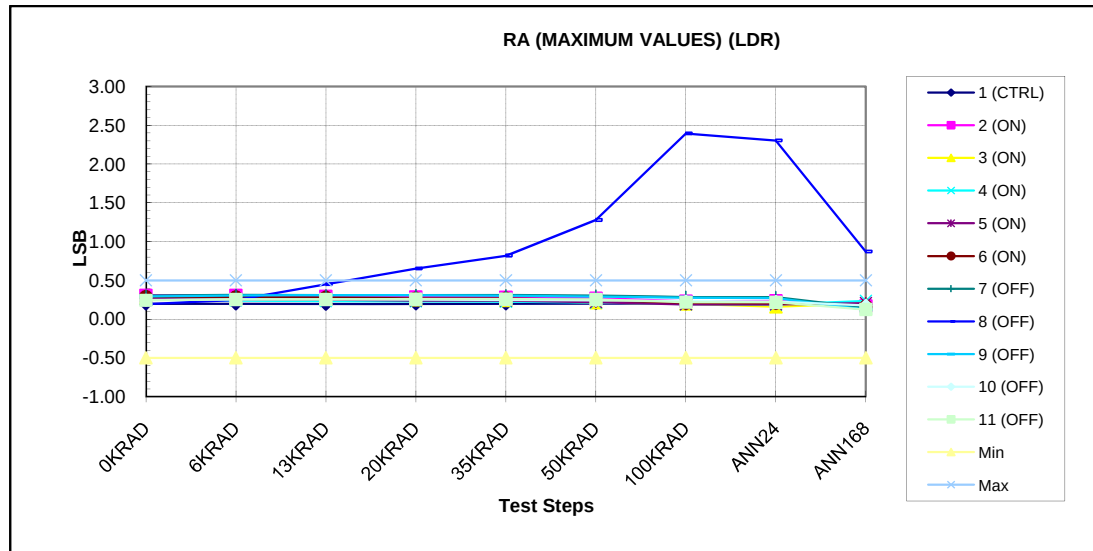
RA (MINIMUM VALUES) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.30	-0.28	-0.27	-0.26	-0.24	-0.21	-0.22	-0.22	-0.24
ELDR OFF	-0.29	-0.30	-0.41	-0.58	-0.63	-0.89	-1.47	-1.42	-0.46
LDR ON	-0.30	-0.29	-0.29	-0.28	-0.28	-0.25	-0.21	-0.22	-0.20
LDR OFF	-0.29	-0.28	-0.33	-0.37	-0.40	-0.49	-0.69	-0.68	-0.30



RA (MAXIMUM VALUES) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Max	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	0.27	0.29	0.28	0.28	0.28	0.27	0.28	0.28	0.27

Bias on results									
2 (ON)	0.27	0.27	0.24	0.25	0.23	0.21	0.19	0.20	0.19
3 (ON)	0.27	0.25	0.24	0.23	0.21	0.19	0.17	0.18	0.21
4 (ON)	0.25	0.24	0.22	0.22	0.20	0.18	0.21	0.23	0.26
5 (ON)	0.27	0.26	0.24	0.23	0.21	0.18	0.18	0.19	0.21
6 (ON)	0.27	0.25	0.25	0.23	0.21	0.21	0.33	0.34	0.31
Statistics bias on									
min result	0.25	0.24	0.22	0.22	0.20	0.18	0.17	0.18	0.19
max result	0.27	0.27	0.25	0.25	0.23	0.21	0.33	0.34	0.31
average	0.27	0.25	0.24	0.23	0.21	0.20	0.22	0.22	0.24
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.06	0.05

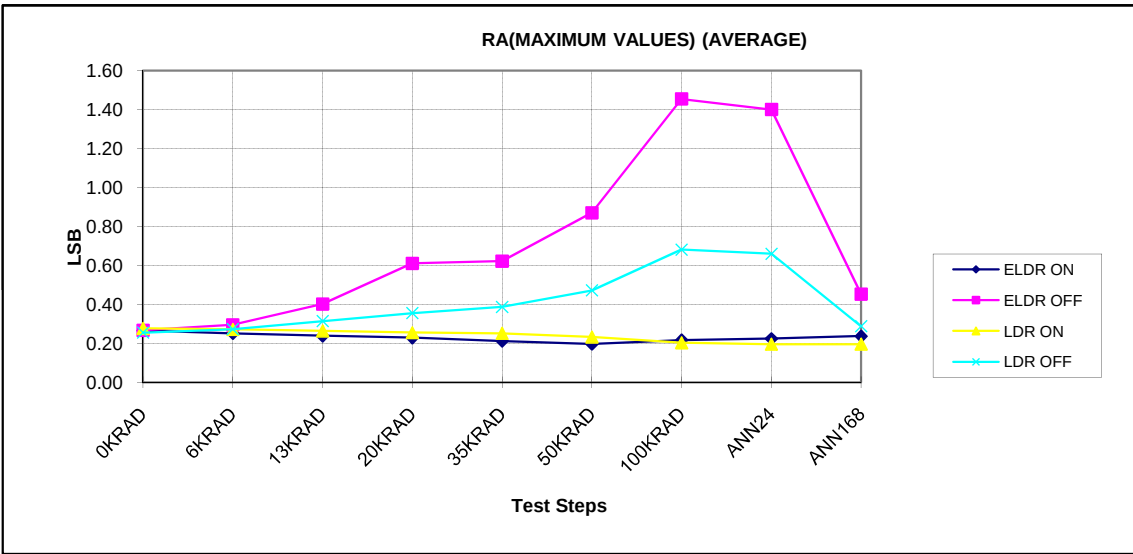
Bias off results									
7 (OFF)	0.32	0.32	0.32	0.32	0.31	0.29	0.25	0.25	0.14
8 (OFF)	0.21	0.45	0.88	1.22	1.61	2.42	4.36	4.20	1.26
9 (OFF)	0.30	0.31	0.30	0.31	0.30	0.29	0.26	0.25	0.13
10 (OFF)	0.25	0.15	0.25	0.96	0.65	1.11	2.21	2.11	0.64
11 (OFF)	0.26	0.26	0.26	0.25	0.25	0.24	0.19	0.20	0.11
Statistics bias off									
min result	0.21	0.15	0.25	0.25	0.25	0.24	0.19	0.20	0.11
max result	0.32	0.45	0.88	1.22	1.61	2.42	4.36	4.20	1.26
average	0.27	0.30	0.40	0.61	0.62	0.87	1.45	1.40	0.45
sigma	0.04	0.11	0.27	0.45	0.57	0.94	1.84	1.77	0.50



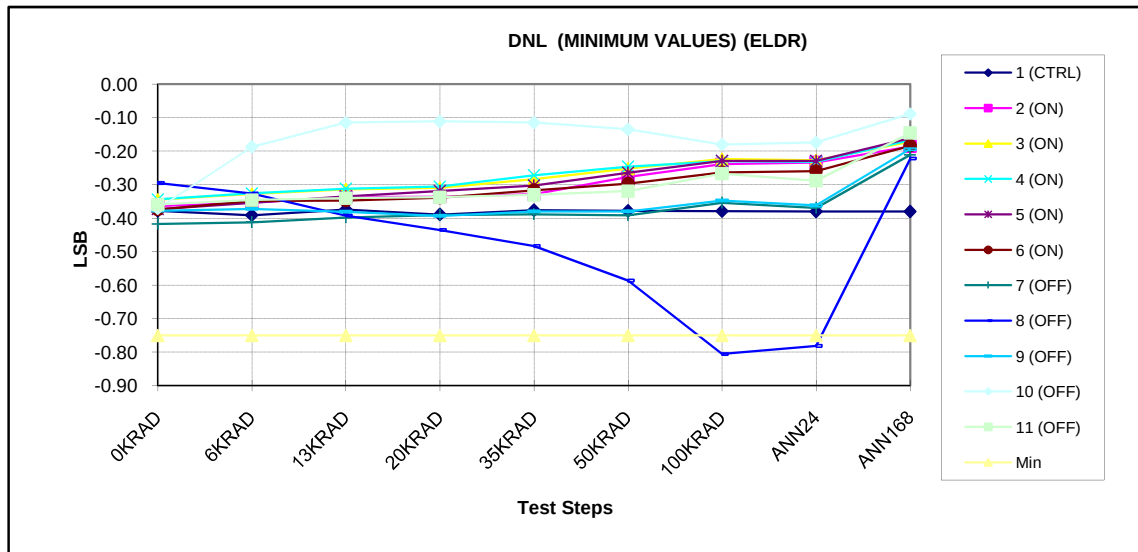
RA (MAXIMUM VALUES) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Max	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	0.20	0.20	0.19	0.20	0.20	0.20	0.20	0.19	0.19

Bias on results									
2 (ON)	0.31	0.31	0.29	0.29	0.28	0.27	0.23	0.24	0.17
3 (ON)	0.28	0.27	0.26	0.25	0.24	0.21	0.20	0.16	0.20
4 (ON)	0.25	0.24	0.24	0.23	0.23	0.21	0.19	0.19	0.23
5 (ON)	0.26	0.26	0.25	0.24	0.24	0.22	0.19	0.19	0.21
6 (ON)	0.29	0.29	0.28	0.27	0.27	0.25	0.21	0.21	0.17
Statistics bias on									
min result	0.25	0.24	0.24	0.23	0.23	0.21	0.19	0.16	0.17
max result	0.31	0.31	0.29	0.29	0.28	0.27	0.23	0.24	0.23
average	0.28	0.27	0.26	0.26	0.25	0.23	0.20	0.20	0.20
sigma	0.02	0.03	0.02	0.02	0.02	0.03	0.02	0.03	0.03

Bias off results									
7 (OFF)	0.30	0.31	0.31	0.31	0.31	0.30	0.28	0.28	0.15
8 (OFF)	0.19	0.25	0.45	0.65	0.82	1.28	2.40	2.31	0.87
9 (OFF)	0.29	0.30	0.31	0.31	0.30	0.29	0.28	0.27	0.12
10 (OFF)	0.24	0.25	0.25	0.25	0.25	0.24	0.23	0.23	0.18
11 (OFF)	0.24	0.25	0.25	0.26	0.26	0.25	0.22	0.22	0.12
Statistics bias off									
min result	0.19	0.25	0.25	0.25	0.25	0.24	0.22	0.22	0.12
max result	0.30	0.31	0.45	0.65	0.82	1.28	2.40	2.31	0.87
average	0.26	0.27	0.31	0.36	0.39	0.47	0.68	0.66	0.29
sigma	0.04	0.03	0.08	0.17	0.24	0.45	0.96	0.92	0.33



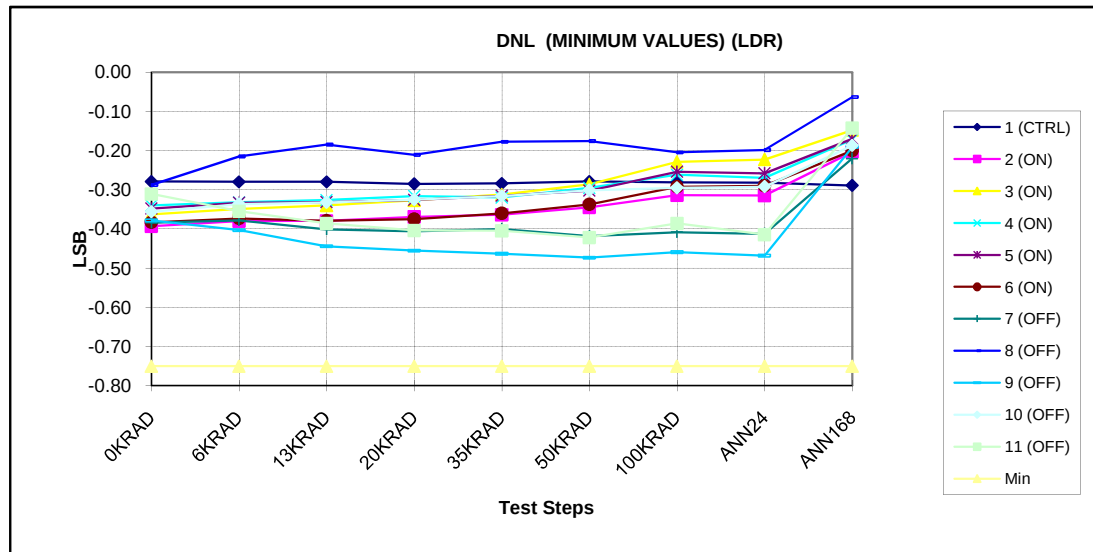
RA (MAXIMUM VALUES) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.27	0.25	0.24	0.23	0.21	0.20	0.22	0.22	0.24
ELDR OFF	0.27	0.30	0.40	0.61	0.62	0.87	1.45	1.40	0.45
LDR ON	0.28	0.27	0.26	0.26	0.25	0.23	0.20	0.20	0.20
LDR OFF	0.26	0.27	0.31	0.36	0.39	0.47	0.68	0.66	0.29



DNL (MINIMUM VALUES) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75
Max	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	-0.38	-0.39	-0.37	-0.39	-0.38	-0.38	-0.38	-0.38	-0.38

Bias on results									
2 (ON)	-0.36	-0.35	-0.34	-0.34	-0.33	-0.28	-0.24	-0.23	-0.19
3 (ON)	-0.35	-0.33	-0.31	-0.31	-0.28	-0.25	-0.22	-0.23	-0.17
4 (ON)	-0.34	-0.33	-0.31	-0.31	-0.27	-0.25	-0.23	-0.23	-0.17
5 (ON)	-0.37	-0.35	-0.34	-0.32	-0.30	-0.26	-0.23	-0.23	-0.16
6 (ON)	-0.37	-0.35	-0.35	-0.34	-0.32	-0.30	-0.26	-0.26	-0.18
Statistics bias on									
min result	-0.37	-0.35	-0.35	-0.34	-0.33	-0.30	-0.26	-0.26	-0.19
max result	-0.34	-0.33	-0.31	-0.31	-0.27	-0.25	-0.22	-0.23	-0.16
average	-0.36	-0.34	-0.33	-0.32	-0.30	-0.27	-0.24	-0.24	-0.17
sigma	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.01	0.01

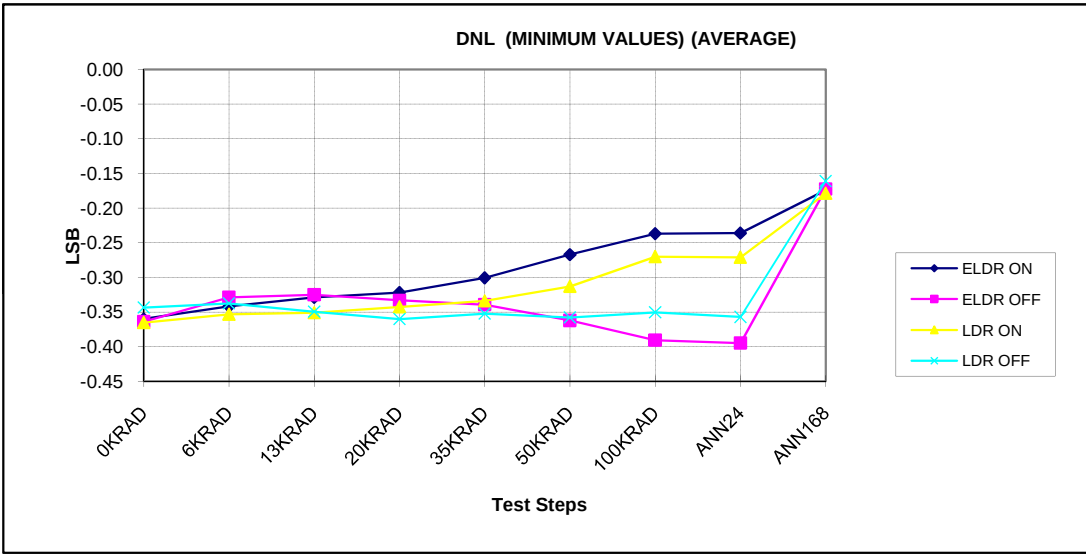
Bias off results									
7 (OFF)	-0.42	-0.41	-0.40	-0.39	-0.39	-0.39	-0.35	-0.37	-0.21
8 (OFF)	-0.30	-0.33	-0.39	-0.44	-0.48	-0.59	-0.81	-0.78	-0.22
9 (OFF)	-0.38	-0.37	-0.38	-0.39	-0.38	-0.38	-0.35	-0.36	-0.19
10 (OFF)	-0.37	-0.19	-0.12	-0.11	-0.12	-0.14	-0.18	-0.17	-0.09
11 (OFF)	-0.36	-0.35	-0.34	-0.34	-0.33	-0.32	-0.27	-0.29	-0.15
Statistics bias off									
min result	-0.42	-0.41	-0.40	-0.44	-0.48	-0.59	-0.81	-0.78	-0.22
max result	-0.30	-0.19	-0.12	-0.11	-0.12	-0.14	-0.18	-0.17	-0.09
average	-0.36	-0.33	-0.33	-0.33	-0.34	-0.36	-0.39	-0.39	-0.17
sigma	0.04	0.09	0.12	0.13	0.14	0.16	0.24	0.23	0.05



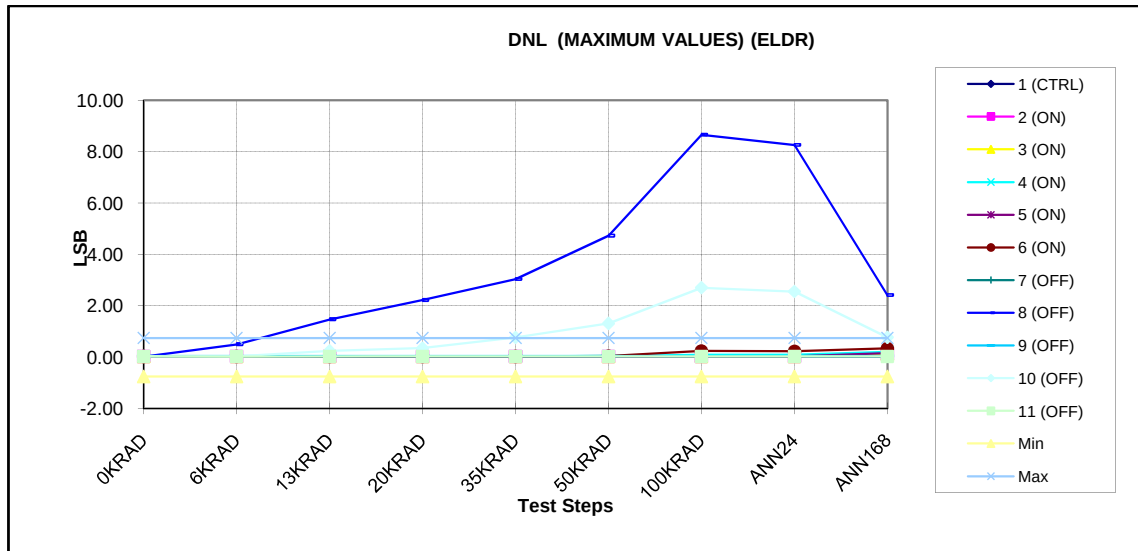
DNL (MINIMUM VALUES) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75
Max	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	-0.28	-0.28	-0.28	-0.29	-0.28	-0.28	-0.28	-0.28	-0.29

Bias on results									
2 (ON)	-0.39	-0.38	-0.38	-0.37	-0.36	-0.35	-0.31	-0.32	-0.20
3 (ON)	-0.36	-0.35	-0.34	-0.33	-0.31	-0.29	-0.23	-0.22	-0.15
4 (ON)	-0.34	-0.33	-0.33	-0.32	-0.32	-0.30	-0.26	-0.27	-0.17
5 (ON)	-0.35	-0.33	-0.33	-0.33	-0.32	-0.30	-0.25	-0.26	-0.17
6 (ON)	-0.38	-0.37	-0.38	-0.38	-0.36	-0.34	-0.29	-0.29	-0.20
Statistics bias on									
min result	-0.39	-0.38	-0.38	-0.38	-0.36	-0.35	-0.31	-0.32	-0.20
max result	-0.34	-0.33	-0.33	-0.32	-0.31	-0.29	-0.23	-0.22	-0.15
average	-0.37	-0.35	-0.35	-0.34	-0.33	-0.31	-0.27	-0.27	-0.18
sigma	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02

Bias off results									
7 (OFF)	-0.38	-0.38	-0.40	-0.41	-0.40	-0.42	-0.41	-0.41	-0.22
8 (OFF)	-0.29	-0.22	-0.19	-0.21	-0.18	-0.18	-0.21	-0.20	-0.06
9 (OFF)	-0.38	-0.40	-0.44	-0.46	-0.46	-0.47	-0.46	-0.47	-0.19
10 (OFF)	-0.36	-0.34	-0.33	-0.33	-0.32	-0.30	-0.30	-0.29	-0.19
11 (OFF)	-0.31	-0.36	-0.39	-0.40	-0.41	-0.42	-0.39	-0.42	-0.14
Statistics bias off									
min result	-0.38	-0.40	-0.44	-0.46	-0.46	-0.47	-0.46	-0.47	-0.22
max result	-0.29	-0.22	-0.19	-0.21	-0.18	-0.18	-0.21	-0.20	-0.06
average	-0.34	-0.34	-0.35	-0.36	-0.35	-0.36	-0.35	-0.36	-0.16
sigma	0.04	0.07	0.10	0.10	0.11	0.12	0.10	0.11	0.06



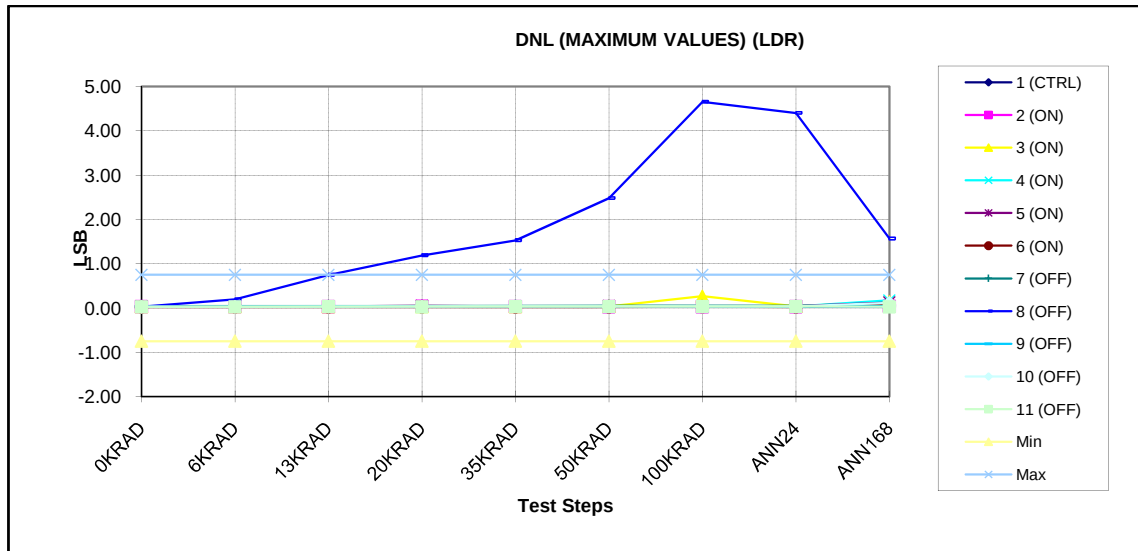
DNL (MINIMUM VALUES) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.36	-0.34	-0.33	-0.32	-0.30	-0.27	-0.24	-0.24	-0.17
ELDR OFF	-0.36	-0.33	-0.33	-0.33	-0.34	-0.36	-0.39	-0.39	-0.17
LDR ON	-0.37	-0.35	-0.35	-0.34	-0.33	-0.31	-0.27	-0.27	-0.18
LDR OFF	-0.34	-0.34	-0.35	-0.36	-0.35	-0.36	-0.35	-0.36	-0.16



DNL (MAXIMUM VALUES) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75
Max	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	0.037	0.037	0.037	0.036	0.035	0.036	0.035	0.035	0.036

Bias on results									
2 (ON)	0.031	0.032	0.033	0.033	0.032	0.035	0.037	0.035	0.12
3 (ON)	0.035	0.036	0.034	0.039	0.04	0.036	0.039	0.04	0.132
4 (ON)	0.035	0.032	0.034	0.036	0.037	0.04	0.097	0.094	0.212
5 (ON)	0.026	0.028	0.025	0.026	0.03	0.03	0.042	0.039	0.161
6 (ON)	0.031	0.032	0.03	0.035	0.035	0.037	0.237	0.234	0.341
Statistics bias on									
min result	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.12
max result	0.04	0.04	0.03	0.04	0.04	0.04	0.24	0.23	0.34
average	0.03	0.03	0.03	0.03	0.03	0.04	0.09	0.09	0.19
sigma	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.09

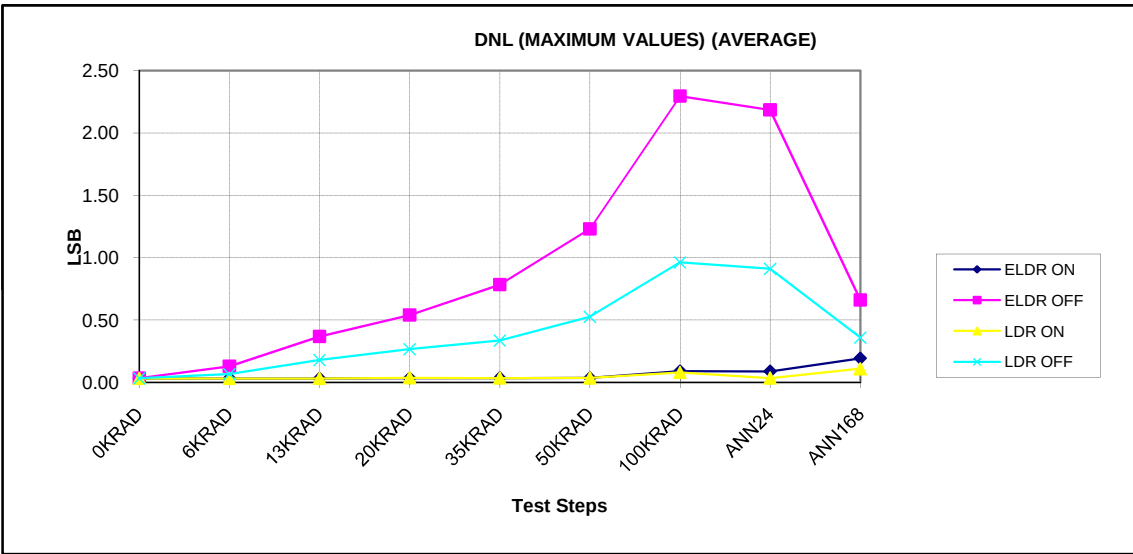
Bias off results									
7 (OFF)	0.034	0.033	0.033	0.037	0.034	0.033	0.04	0.037	0.032
8 (OFF)	0.028	0.507	1.475	2.225	3.038	4.726	8.652	8.255	2.419
9 (OFF)	0.043	0.042	0.043	0.045	0.046	0.048	0.046	0.049	0.045
10 (OFF)	0.034	0.036	0.251	0.355	0.767	1.313	2.7	2.551	0.775
11 (OFF)	0.03	0.026	0.031	0.029	0.029	0.029	0.031	0.03	0.031
Statistics bias off									
min result	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
max result	0.04	0.51	1.48	2.23	3.04	4.73	8.65	8.26	2.42
average	0.03	0.13	0.37	0.54	0.78	1.23	2.29	2.18	0.66
sigma	0.01	0.21	0.63	0.95	1.30	2.03	3.74	3.56	1.03



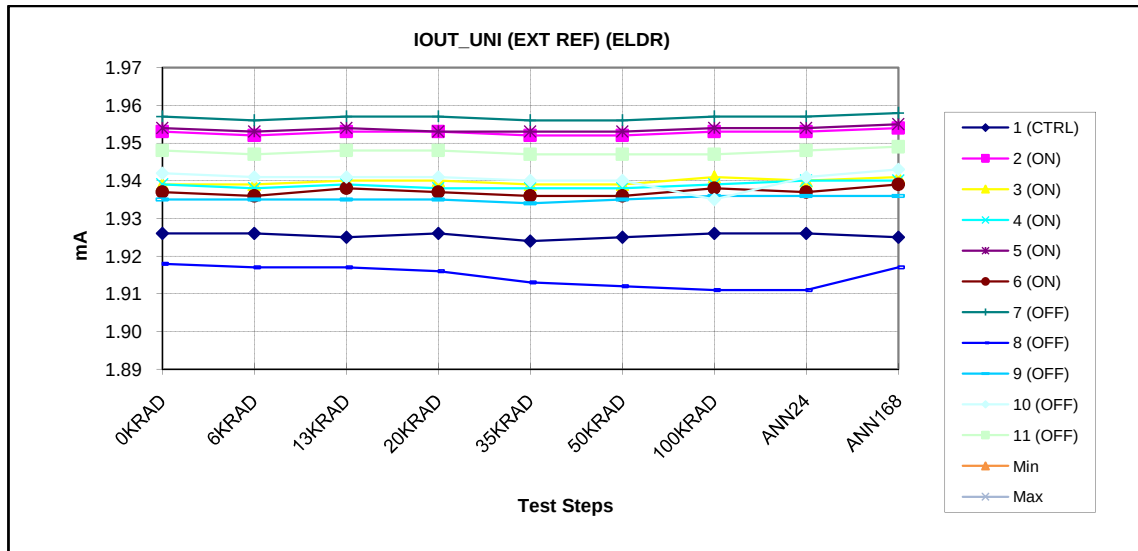
DNL(MAXIMUM VALUES) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75
Max	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04

Bias on results									
2 (ON)	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.04
3 (ON)	0.03	0.03	0.04	0.03	0.03	0.04	0.27	0.04	0.15
4 (ON)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.17
5 (ON)	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.13
6 (ON)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.06
Statistics bias on									
min result	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
max result	0.04	0.04	0.04	0.05	0.04	0.04	0.27	0.04	0.17
average	0.03	0.03	0.03	0.04	0.04	0.04	0.08	0.04	0.11
sigma	0.00	0.00	0.00	0.01	0.01	0.01	0.10	0.01	0.06

Bias off results									
7 (OFF)	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
8 (OFF)	0.03	0.20	0.75	1.19	1.53	2.48	4.66	4.41	1.57
9 (OFF)	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.04
10 (OFF)	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.12
11 (OFF)	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03
Statistics bias off									
min result	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
max result	0.04	0.20	0.75	1.19	1.53	2.48	4.66	4.41	1.57
average	0.03	0.07	0.18	0.27	0.34	0.53	0.96	0.91	0.36
sigma	0.01	0.07	0.32	0.52	0.67	1.09	2.07	1.95	0.68



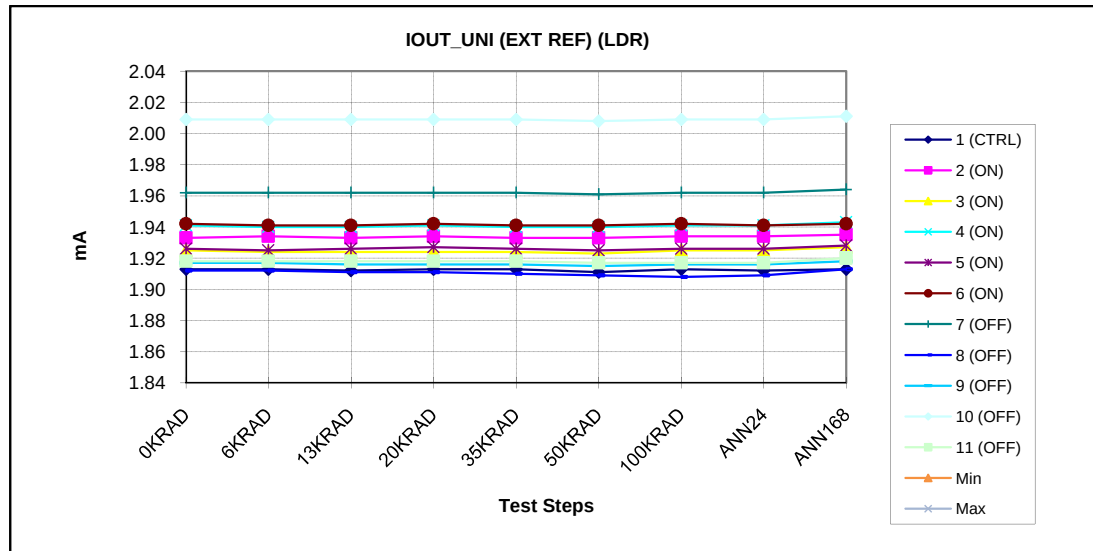
DNL (MAXIMUM VALUES) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.03	0.03	0.03	0.03	0.03	0.04	0.09	0.09	0.19
ELDR OFF	0.03	0.13	0.37	0.54	0.78	1.23	2.29	2.18	0.66
LDR ON	0.03	0.03	0.03	0.04	0.04	0.04	0.08	0.04	0.11
LDR OFF	0.03	0.07	0.18	0.27	0.34	0.53	0.96	0.91	0.36



IOUT_UNI (EXT REF) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Max	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	1.93	1.93	1.93	1.93	1.92	1.93	1.93	1.93	1.93

Bias on results									
2 (ON)	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
3 (ON)	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
4 (ON)	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
5 (ON)	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.96
6 (ON)	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
Statistics bias on									
min result	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
max result	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.96
average	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.94	1.95
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

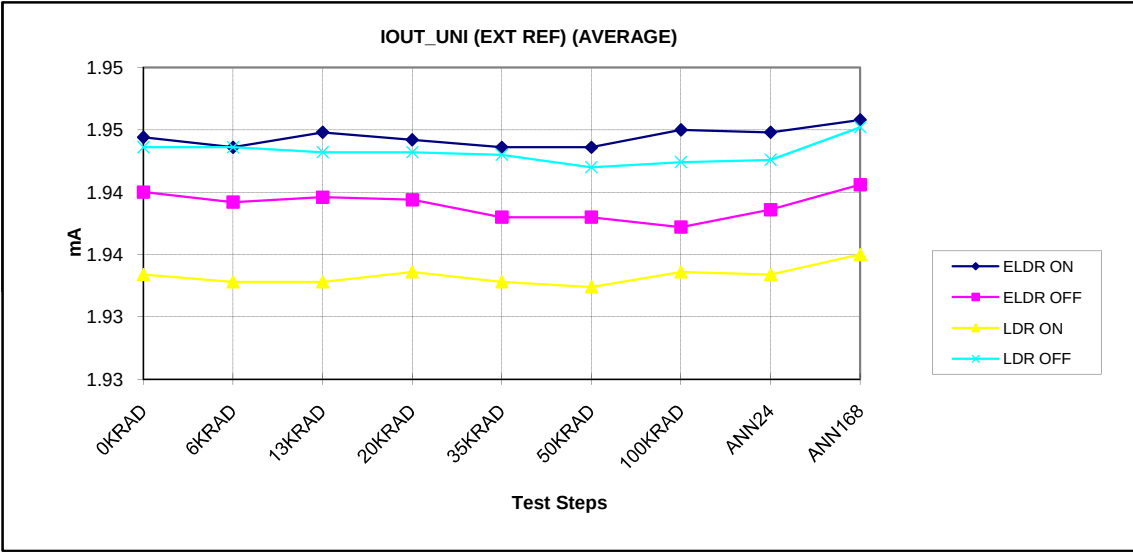
Bias off results									
7 (OFF)	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96
8 (OFF)	1.92	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.92
9 (OFF)	1.94	1.94	1.94	1.94	1.93	1.94	1.94	1.94	1.94
10 (OFF)	1.94	1.94	1.94	1.941	1.94	1.94	1.94	1.94	1.94
11 (OFF)	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
Statistics bias off									
min result	1.92	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.92
max result	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96
average	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
sigma	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02



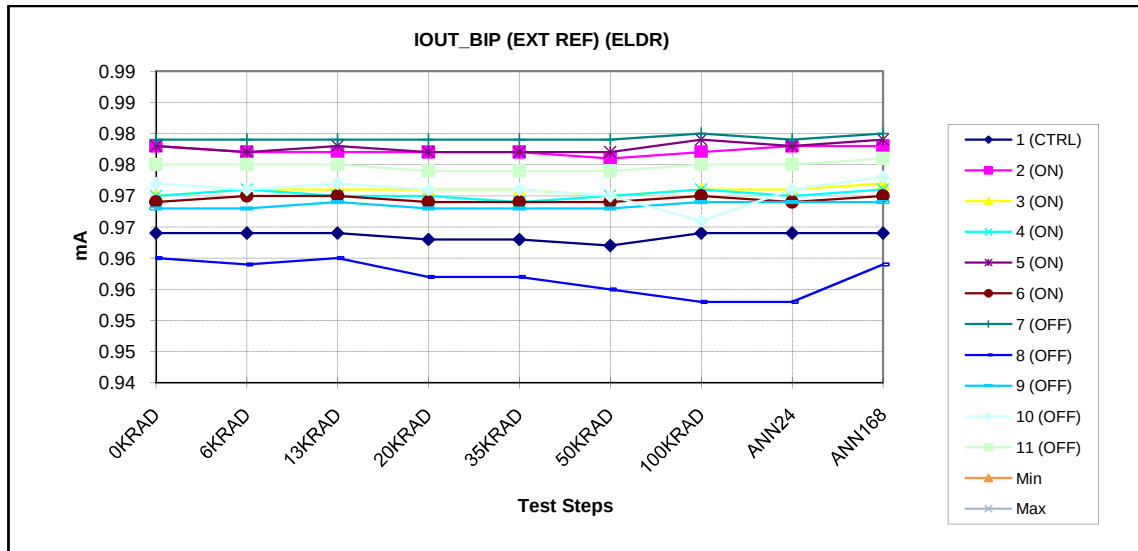
IOUT_UNI (EXT REF) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Max	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91

Bias on results									
2 (ON)	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94
3 (ON)	1.93	1.92	1.92	1.92	1.92	1.92	1.93	1.93	1.93
4 (ON)	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
5 (ON)	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93
6 (ON)	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
Statistics bias on									
min result	1.93	1.92	1.92	1.92	1.92	1.92	1.93	1.93	1.93
max result	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
average	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Bias off results									
7 (OFF)	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96
8 (OFF)	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
9 (OFF)	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
10 (OFF)	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
11 (OFF)	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
Statistics bias off									
min result	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
max result	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
average	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95
sigma	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04



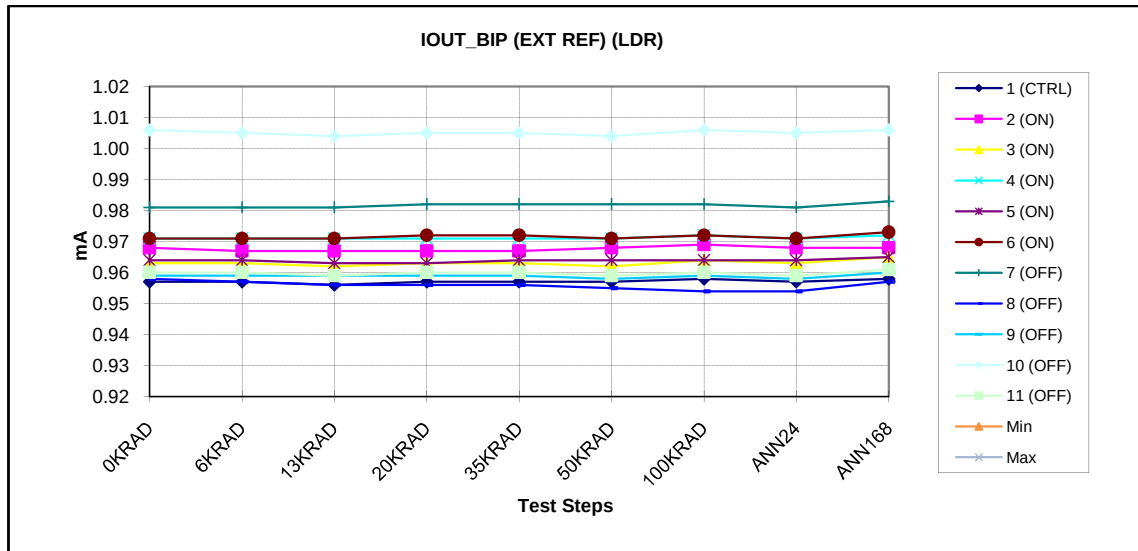
IOUT_UNI (EXT REF) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.94	1.95
ELDR OFF	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
LDR ON	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94
LDR OFF	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95



IOUT_BIP (EXT REF) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Max	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96

Bias on results									
2 (ON)	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
3 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
4 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
5 (ON)	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
6 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Statistics bias on									
min result	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
max result	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
average	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
sigma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

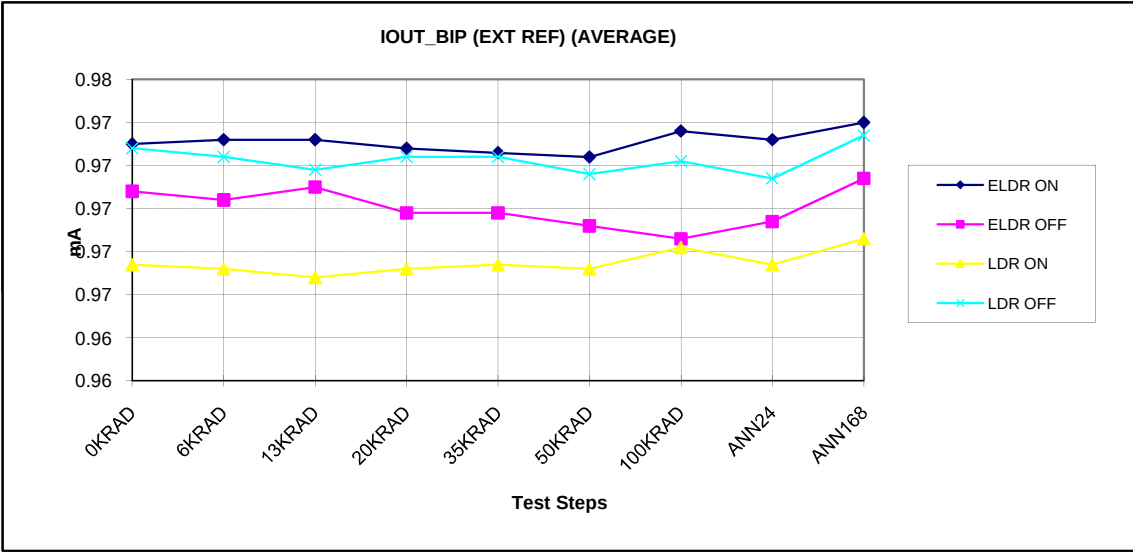
Bias off results									
7 (OFF)	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
8 (OFF)	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.95	0.96
9 (OFF)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
10 (OFF)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
11 (OFF)	0.98	0.98	0.98	0.97	0.97	0.97	0.98	0.98	0.98
Statistics bias off									
min result	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.95	0.96
max result	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
average	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



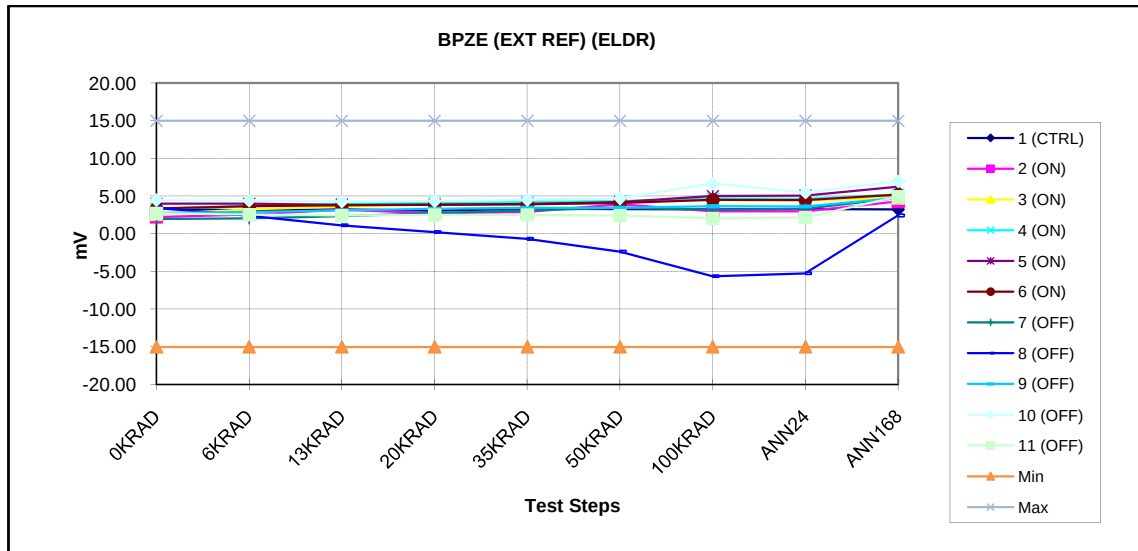
IOUT_BIP (EXT REF) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Max	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Unit	mA	mA	mA	mA	mA	mA	mA	mA	mA
Control Results									
1 (CTRL)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96

Bias on results									
2 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
3 (ON)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.97
4 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
5 (ON)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.97
6 (ON)	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Statistics bias on									
min result	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.97
max result	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
average	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
sigma	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Bias off results									
7 (OFF)	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
8 (OFF)	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.95	0.96
9 (OFF)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
10 (OFF)	1.01	1.01	1.00	1.01	1.01	1.00	1.01	1.01	1.01
11 (OFF)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Statistics bias off									
min result	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.95	0.96
max result	1.01	1.01	1.00	1.01	1.01	1.00	1.01	1.01	1.01
average	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
sigma	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02



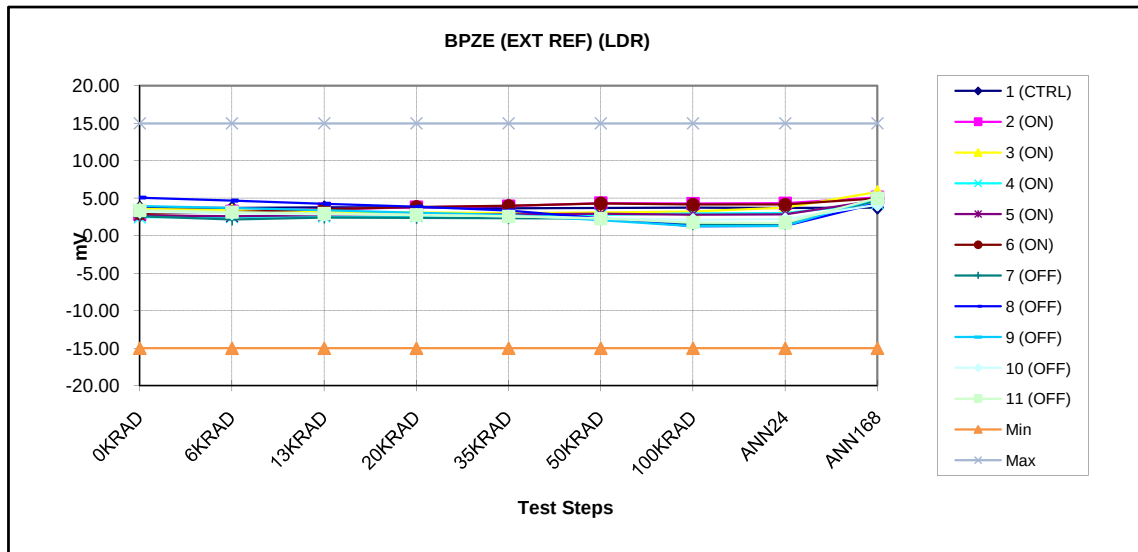
IOUT_BIP (EXT REF) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
ELDR OFF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
LDR ON	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
LDR OFF	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97



BPZE (EXT REF) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-15	-15	-15	-15	-15	-15	-15	-15	-15
Max	15	15	15	15	15	15	15	15	15
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	3.30	3.09	3.24	3.06	3.31	3.27	3.25	3.28	3.24

Bias on results									
2 (ON)	2.24	2.59	3.21	2.75	2.91	3.92	3.01	2.97	4.29
3 (ON)	2.59	3.23	3.62	3.86	4.15	4.32	4.46	4.44	4.77
4 (ON)	3.32	3.70	3.95	4.14	4.22	4.33	4.70	4.66	5.24
5 (ON)	4.01	4.00	3.86	3.84	3.96	4.22	5.02	5.09	6.28
6 (ON)	3.36	3.64	3.76	3.85	3.90	4.06	4.52	4.48	5.18
Statistics bias on									
min result	2.24	2.59	3.21	2.75	2.91	3.92	3.01	2.97	4.29
max result	4.01	4.00	3.95	4.14	4.22	4.33	5.02	5.09	6.28
average	3.10	3.43	3.68	3.69	3.83	4.17	4.34	4.33	5.15
sigma	0.70	0.55	0.29	0.54	0.53	0.18	0.78	0.80	0.74

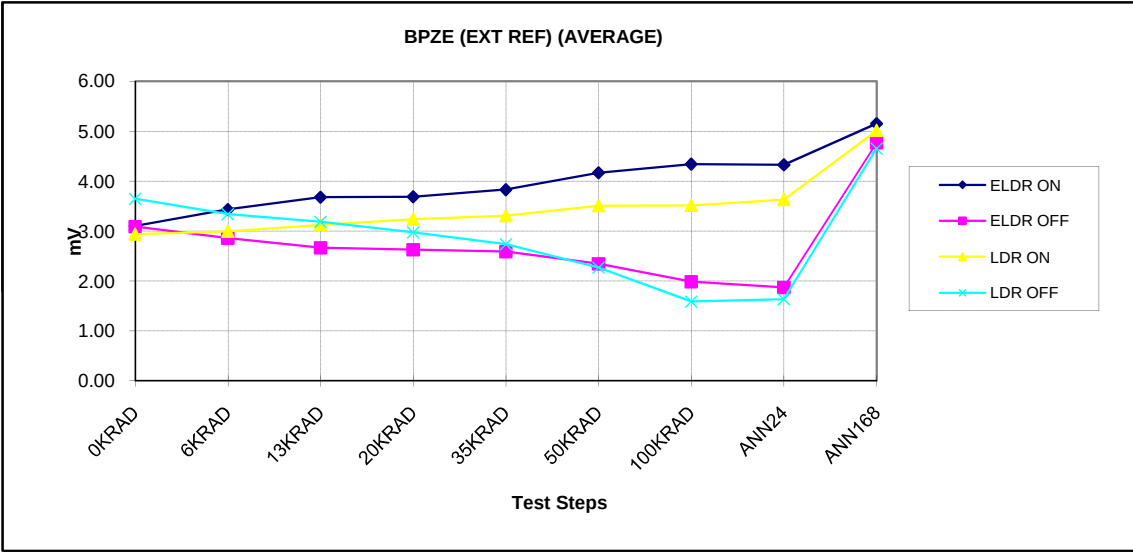
Bias off results									
7 (OFF)	1.96	2.04	2.33	2.72	3.12	3.44	3.17	3.31	4.76
8 (OFF)	3.45	2.38	1.13	0.24	-0.67	-2.35	-5.61	-5.25	2.42
9 (OFF)	2.79	2.91	3.11	3.33	3.45	3.47	3.67	3.64	4.76
10 (OFF)	4.49	4.40	4.30	4.35	4.51	4.71	6.66	5.49	6.96
11 (OFF)	2.75	2.57	2.45	2.50	2.53	2.45	2.05	2.17	4.94
Statistics bias off									
min result	1.96	2.04	1.13	0.24	-0.67	-2.35	-5.61	-5.25	2.42
max result	4.49	4.40	4.30	4.35	4.51	4.71	6.66	5.49	6.96
average	3.09	2.86	2.66	2.63	2.59	2.34	1.99	1.87	4.77
sigma	0.94	0.92	1.16	1.52	1.96	2.74	4.58	4.15	1.61



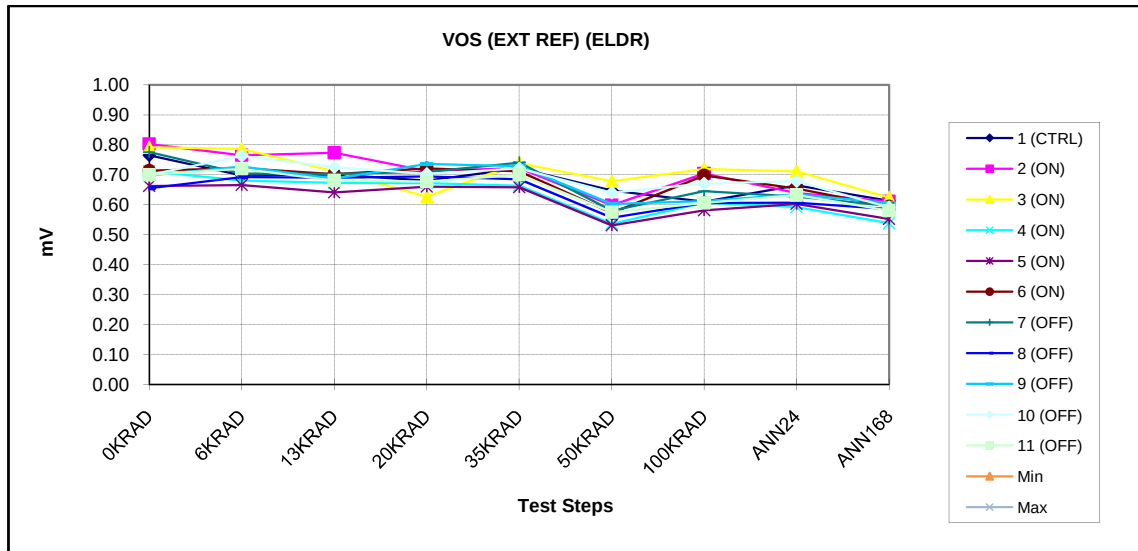
BPZE (EXT REF) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-15	-15	-15	-15	-15	-15	-15	-15	-15
Max	15	15	15	15	15	15	15	15	15
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	3.77	3.73	3.79	3.81	3.67	3.73	3.75	3.71	3.76

Bias on results									
2 (ON)	2.93	3.27	3.55	3.81	3.96	4.35	4.30	4.34	5.14
3 (ON)	3.61	3.42	3.13	3.12	3.04	3.12	3.26	3.78	5.864
4 (ON)	2.47	2.51	2.61	2.63	2.67	2.79	3.01	3.02	4.37
5 (ON)	2.72	2.61	2.77	2.78	2.87	2.96	2.83	2.85	4.74
6 (ON)	2.96	3.18	3.56	3.85	4.01	4.32	4.17	4.17	4.97
Statistics bias on									
min result	2.47	2.51	2.61	2.63	2.67	2.79	2.83	2.85	4.37
max result	3.61	3.42	3.56	3.85	4.01	4.35	4.30	4.34	5.86
average	2.94	3.00	3.12	3.24	3.31	3.51	3.51	3.63	5.02
sigma	0.43	0.41	0.44	0.57	0.63	0.76	0.68	0.67	0.56

Bias off results									
7 (OFF)	2.57	2.17	2.43	2.38	2.35	2.29	1.53	1.58	4.72
8 (OFF)	5.08	4.68	4.25	3.89	3.36	2.34	1.29	1.35	4.35
9 (OFF)	3.97	3.71	3.43	3.05	2.77	2.09	1.26	1.30	5.01
10 (OFF)	3.21	2.99	2.85	2.76	2.59	2.33	2.13	2.22	4.15
11 (OFF)	3.42	3.16	2.98	2.80	2.59	2.30	1.75	1.72	5.03
Statistics bias off									
min result	2.57	2.17	2.43	2.38	2.35	2.09	1.26	1.30	4.15
max result	5.08	4.68	4.25	3.89	3.36	2.34	2.13	2.22	5.03
average	3.65	3.34	3.19	2.98	2.73	2.27	1.59	1.63	4.65
sigma	0.94	0.93	0.70	0.56	0.38	0.10	0.36	0.37	0.39



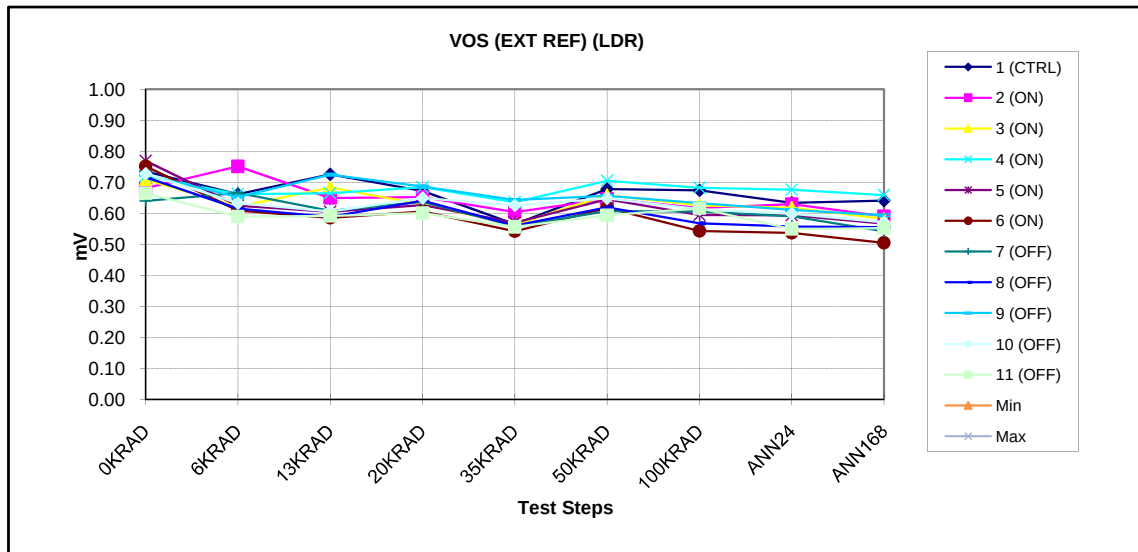
BPZE (EXT REF) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	3.10	3.43	3.68	3.69	3.83	4.17	4.34	4.33	5.15
ELDR OFF	3.09	2.86	2.66	2.63	2.59	2.34	1.99	1.87	4.77
LDR ON	2.94	3.00	3.12	3.24	3.31	3.51	3.51	3.63	5.02
LDR OFF	3.65	3.34	3.19	2.98	2.73	2.27	1.59	1.63	4.65



VOS (EXT REF) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-5	-5	-5	-5	-5	-5	-5	-5	-5
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	0.77	0.70	0.70	0.68	0.72	0.65	0.61	0.67	0.61

Bias on results									
2 (ON)	0.80	0.77	0.77	0.71	0.72	0.60	0.70	0.64	0.61
3 (ON)	0.79	0.79	0.71	0.63	0.74	0.68	0.72	0.71	0.62
4 (ON)	0.71	0.68	0.67	0.67	0.66	0.54	0.61	0.59	0.54
5 (ON)	0.66	0.67	0.64	0.66	0.66	0.53	0.58	0.60	0.55
6 (ON)	0.71	0.72	0.70	0.72	0.71	0.57	0.70	0.65	0.59
Statistics bias on									
min result	0.66	0.67	0.64	0.63	0.66	0.53	0.58	0.59	0.54
max result	0.80	0.79	0.77	0.72	0.74	0.68	0.72	0.71	0.62
average	0.74	0.72	0.70	0.68	0.70	0.58	0.66	0.64	0.58
sigma	0.06	0.05	0.05	0.04	0.04	0.06	0.06	0.05	0.04

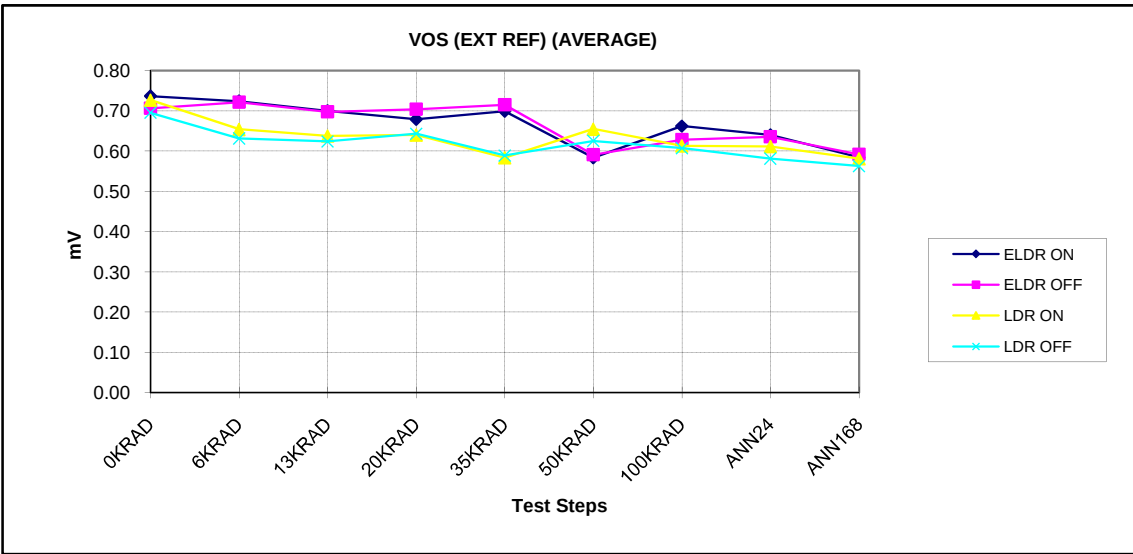
Bias off results									
7 (OFF)	0.78	0.70	0.70	0.71	0.74	0.58	0.65	0.63	0.60
8 (OFF)	0.66	0.69	0.69	0.69	0.69	0.56	0.61	0.61	0.59
9 (OFF)	0.70	0.73	0.69	0.74	0.73	0.60	0.61	0.64	0.61
10 (OFF)	0.70	0.76	0.73	0.70	0.72	0.64	0.67	0.68	0.59
11 (OFF)	0.70	0.72	0.68	0.68	0.70	0.58	0.61	0.63	0.58
Statistics bias off									
min result	0.66	0.69	0.68	0.68	0.69	0.56	0.61	0.61	0.58
max result	0.78	0.76	0.73	0.74	0.74	0.64	0.67	0.68	0.61
average	0.71	0.72	0.70	0.70	0.72	0.59	0.63	0.64	0.59
sigma	0.04	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.01



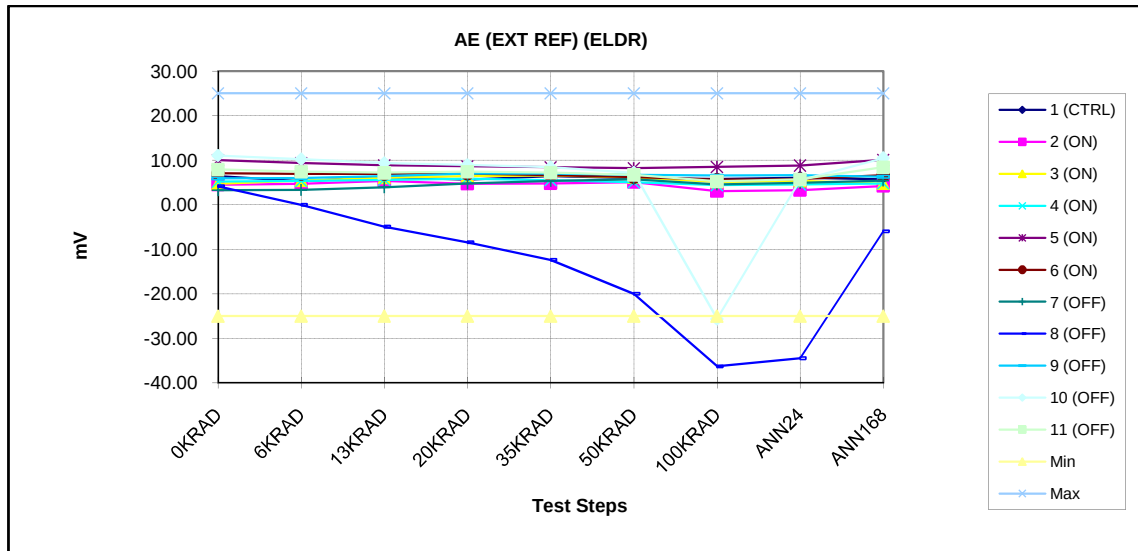
VOS (EXT REF) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-5	-5	-5	-5	-5	-5	-5	-5	-5
Max	5	5	5	5	5	5	5	5	5
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	0.74	0.66	0.73	0.67	0.57	0.68	0.67	0.63	0.64

Bias on results									
2 (ON)	0.68	0.75	0.65	0.65	0.60	0.65	0.62	0.63	0.59
3 (ON)	0.71	0.62	0.68	0.63	0.56	0.66	0.63	0.62	0.58
4 (ON)	0.72	0.66	0.67	0.68	0.64	0.71	0.68	0.68	0.66
5 (ON)	0.77	0.63	0.61	0.63	0.57	0.65	0.60	0.59	0.57
6 (ON)	0.75	0.61	0.59	0.61	0.54	0.62	0.54	0.54	0.51
Statistics bias on									
min result	0.68	0.61	0.59	0.61	0.54	0.62	0.54	0.54	0.51
max result	0.77	0.75	0.68	0.68	0.64	0.71	0.68	0.68	0.66
average	0.73	0.65	0.64	0.64	0.58	0.65	0.61	0.61	0.58
sigma	0.03	0.06	0.04	0.03	0.04	0.03	0.05	0.05	0.06

Bias off results									
7 (OFF)	0.64	0.67	0.61	0.64	0.56	0.61	0.61	0.59	0.54
8 (OFF)	0.72	0.62	0.59	0.64	0.56	0.62	0.57	0.56	0.56
9 (OFF)	0.73	0.65	0.73	0.69	0.64	0.66	0.63	0.61	0.59
10 (OFF)	0.73	0.63	0.61	0.65	0.63	0.65	0.61	0.60	0.57
11 (OFF)	0.67	0.59	0.59	0.60	0.56	0.59	0.62	0.55	0.55
Statistics bias off									
min result	0.64	0.59	0.59	0.60	0.56	0.59	0.57	0.55	0.54
max result	0.73	0.67	0.73	0.69	0.64	0.66	0.63	0.61	0.59
average	0.69	0.63	0.62	0.64	0.59	0.63	0.61	0.58	0.56
sigma	0.04	0.03	0.06	0.03	0.04	0.03	0.02	0.03	0.02



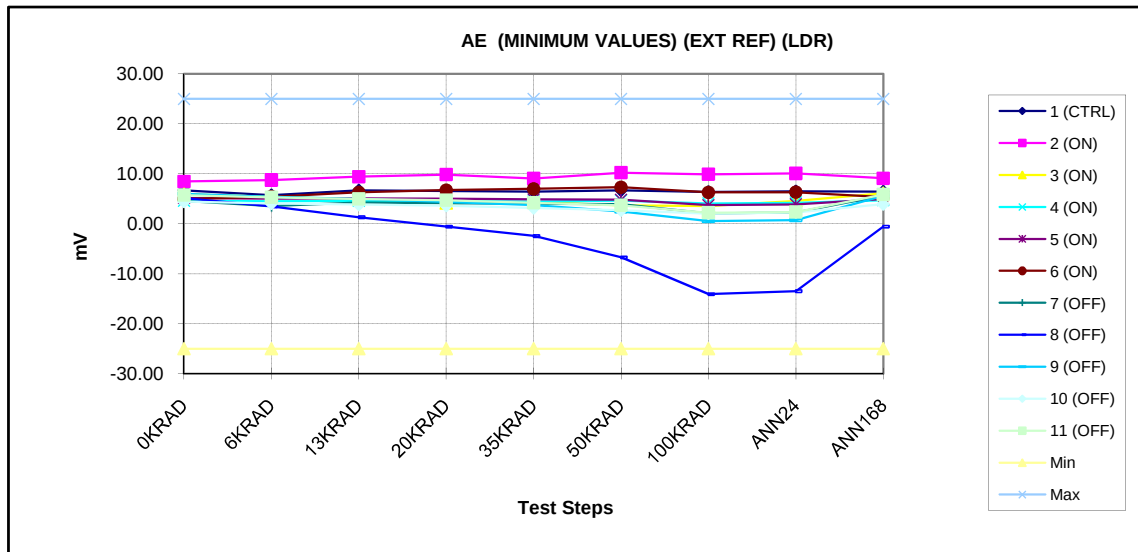
VOS (EXT REF) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.74	0.72	0.70	0.68	0.70	0.58	0.66	0.64	0.58
ELDR OFF	0.71	0.72	0.70	0.70	0.72	0.59	0.63	0.64	0.59
LDR ON	0.73	0.65	0.64	0.64	0.58	0.65	0.61	0.61	0.58
LDR OFF	0.69	0.63	0.62	0.64	0.59	0.63	0.61	0.58	0.56



AE (EXT REF) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-25	-25	-25	-25	-25	-25	-25	-25	-25
Max	25	25	25	25	25	25	25	25	25
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	6.46	5.30	6.25	5.63	6.44	6.02	5.80	6.07	5.76

Bias on results									
2 (ON)	4.54	4.77	5.38	4.74	4.82	5.09	3.08	3.30	4.25
3 (ON)	4.72	5.42	6.11	6.43	6.60	6.18	5.16	5.37	4.78
4 (ON)	5.17	5.31	5.59	5.86	5.52	5.03	4.39	4.55	4.79
5 (ON)	10.00	9.32	8.84	8.66	8.40	8.21	8.50	8.81	10.06
6 (ON)	7.06	6.93	6.90	6.97	6.58	6.16	5.60	5.78	6.59
Statistics bias on									
min result	4.54	4.77	5.38	4.74	4.82	5.03	3.08	3.30	4.25
max result	10.00	9.32	8.84	8.66	8.40	8.21	8.50	8.81	10.06
average	6.30	6.35	6.56	6.53	6.38	6.13	5.34	5.56	6.09
sigma	2.30	1.85	1.40	1.45	1.35	1.29	2.01	2.05	2.39

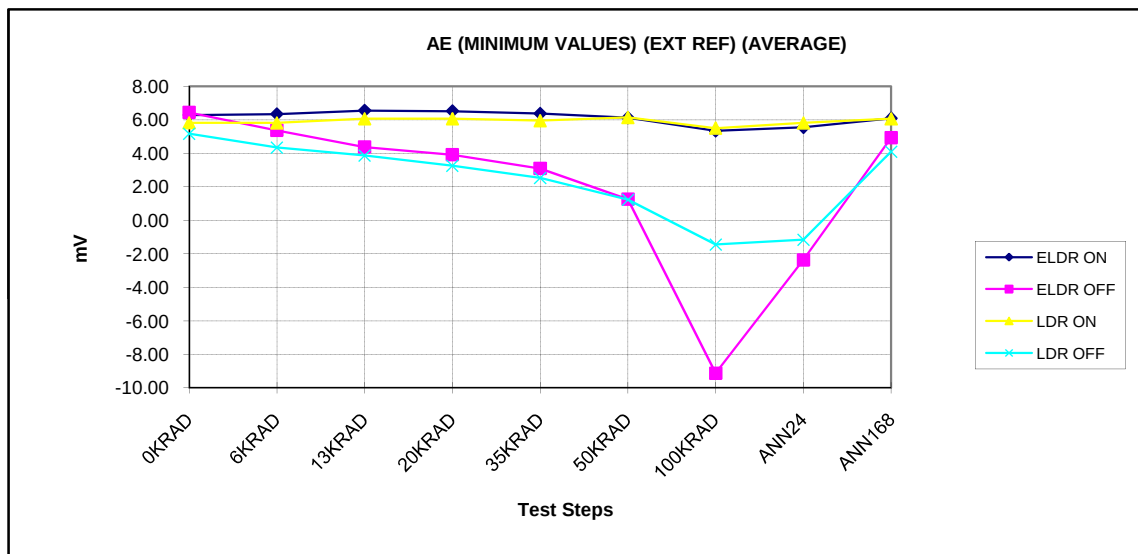
Bias off results									
7 (OFF)	3.24	3.31	3.90	4.78	5.30	5.68	4.54	4.86	5.43
8 (OFF)	4.13	-0.01	-4.95	-8.44	-12.38	-20.00	-36.29	-34.46	-5.96
9 (OFF)	5.92	6.01	6.41	6.97	6.96	6.72	6.53	6.65	6.29
10 (OFF)	11.06	10.24	9.38	8.97	8.45	7.21	-25.62	5.53	10.50
11 (OFF)	7.89	7.39	7.17	7.39	7.23	6.73	5.26	5.68	8.42
Statistics bias off									
min result	3.24	-0.01	-4.95	-8.44	-12.38	-20.00	-36.29	-34.46	-5.96
max result	11.06	10.24	9.38	8.97	8.45	7.21	6.53	6.65	10.50
average	6.45	5.39	4.38	3.93	3.11	1.27	-9.12	-2.35	4.93
sigma	3.13	3.92	5.57	7.08	8.73	11.90	20.30	17.96	6.40



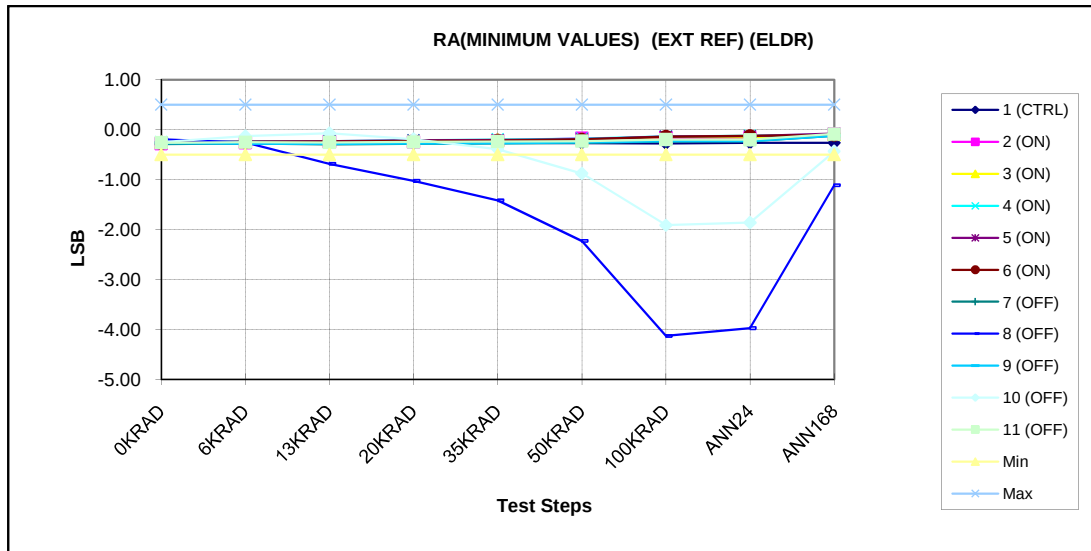
AE (MIN VALUES) (EXT REF) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-25	-25	-25	-25	-25	-25	-25	-25	-25
Max	25	25	25	25	25	25	25	25	25
Unit	mV	mV	mV	mV	mV	mV	mV	mV	mV
Control Results									
1 (CTRL)	6.71	5.75	6.68	6.60	6.46	6.69	6.40	6.53	6.45

Bias on results									
2 (ON)	8.46	8.74	9.41	9.86	9.05	10.22	9.91	10.07	9.10
3 (ON)	5.97	5.40	4.95	4.15	4.41	3.73	3.57	4.62	6.14
4 (ON)	4.60	4.53	4.62	4.59	4.47	4.66	4.10	4.25	4.73
5 (ON)	5.19	5.02	5.13	5.07	4.89	4.83	3.72	3.88	5.01
6 (ON)	4.98	5.44	6.27	6.72	6.97	7.30	6.27	6.31	5.38
Statistics bias on									
min result	4.60	4.53	4.62	4.15	4.41	3.73	3.57	3.88	4.73
max result	8.46	8.74	9.41	9.86	9.05	10.22	9.91	10.07	9.10
average	5.84	5.83	6.08	6.08	5.96	6.15	5.51	5.82	6.07
sigma	1.55	1.67	1.96	2.33	2.02	2.63	2.69	2.55	1.77

Bias off results									
7 (OFF)	4.54	3.56	4.23	4.12	3.98	3.96	2.10	2.32	5.64
8 (OFF)	5.14	3.49	1.33	-0.56	-2.44	-6.70	-14.08	-13.49	-0.54
9 (OFF)	6.00	5.40	4.98	4.38	3.72	2.47	0.52	0.74	5.63
10 (OFF)	4.43	4.04	3.86	3.61	3.17	2.71	2.03	2.30	3.94
11 (OFF)	5.75	5.31	5.01	4.74	4.25	3.70	2.24	2.38	5.89
Statistics bias off									
min result	4.43	3.49	1.33	-0.56	-2.44	-6.70	-14.08	-13.49	-0.54
max result	6.00	5.40	5.01	4.74	4.25	3.96	2.24	2.38	5.89
average	5.17	4.36	3.88	3.26	2.54	1.23	-1.44	-1.15	4.11
sigma	0.70	0.93	1.51	2.17	2.81	4.48	7.10	6.93	2.71



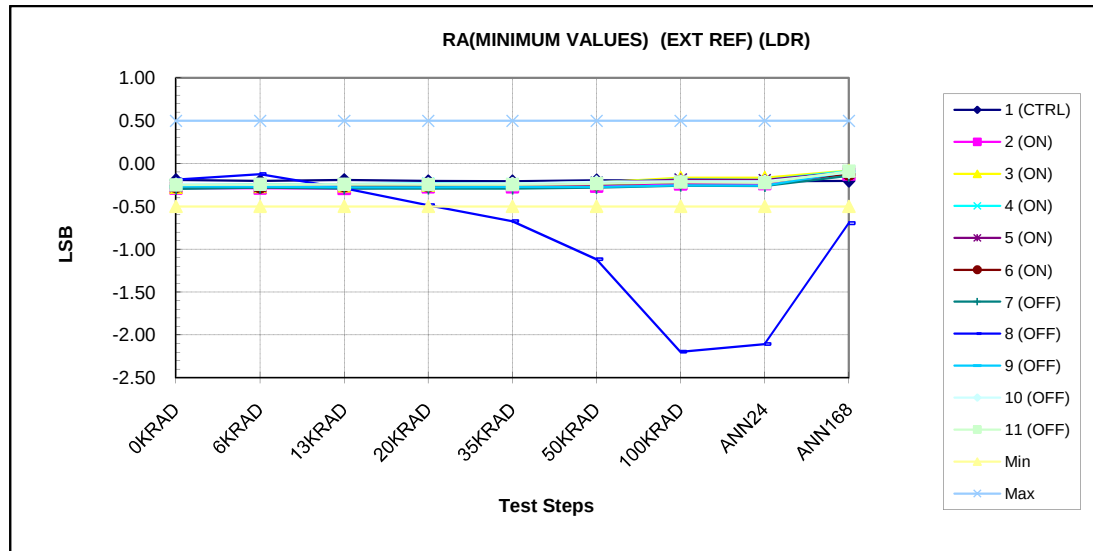
AE (MIN VALUES) (EXT REF) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	6.30	6.35	6.56	6.53	6.38	6.13	5.34	5.56	6.09
ELDR OFF	6.45	5.39	4.38	3.93	3.11	1.27	-9.12	-2.35	4.93
LDR ON	5.84	5.83	6.08	6.08	5.96	6.15	5.51	5.82	6.07
LDR OFF	5.17	4.36	3.88	3.26	2.54	1.23	-1.44	-1.15	4.11



RA (MIN VALUES) (EXT REF) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Max	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	-0.26	-0.28	-0.26	-0.27	-0.26	-0.27	-0.28	-0.26	-0.27

Bias on results									
2 (ON)	-0.28	-0.26	-0.24	-0.25	-0.22	-0.18	-0.17	-0.17	-0.09
3 (ON)	-0.25	-0.24	-0.24	-0.22	-0.21	-0.19	-0.15	-0.15	-0.10
4 (ON)	-0.25	-0.24	-0.23	-0.21	-0.20	-0.18	-0.14	-0.13	-0.10
5 (ON)	-0.26	-0.24	-0.24	-0.22	-0.21	-0.20	-0.14	-0.13	-0.08
6 (ON)	-0.27	-0.25	-0.24	-0.23	-0.22	-0.20	-0.14	-0.13	-0.11
Statistics bias on									
min result	-0.28	-0.26	-0.24	-0.25	-0.22	-0.20	-0.17	-0.17	-0.11
max result	-0.25	-0.24	-0.23	-0.21	-0.20	-0.18	-0.14	-0.13	-0.08
average	-0.26	-0.25	-0.24	-0.23	-0.21	-0.19	-0.15	-0.14	-0.09
sigma	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01

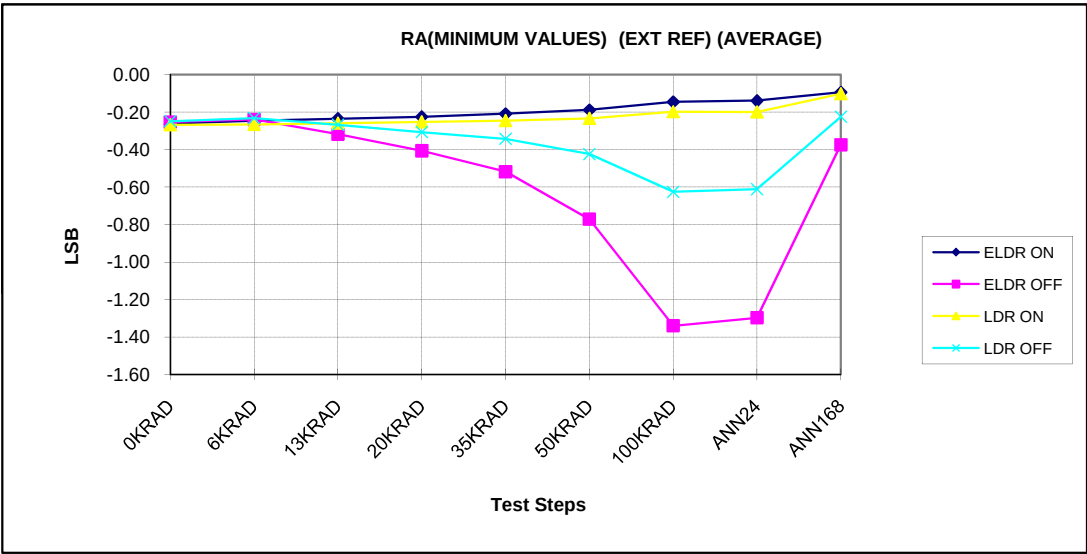
Bias off results									
7 (OFF)	-0.29	-0.28	-0.30	-0.29	-0.28	-0.27	-0.24	-0.23	-0.12
8 (OFF)	-0.19	-0.26	-0.69	-1.03	-1.42	-2.23	-4.13	-3.97	-1.11
9 (OFF)	-0.27	-0.28	-0.28	-0.28	-0.27	-0.26	-0.23	-0.23	-0.12
10 (OFF)	-0.25	-0.13	-0.07	-0.19	-0.39	-0.88	-1.91	-1.86	-0.43
11 (OFF)	-0.26	-0.25	-0.26	-0.25	-0.24	-0.23	-0.20	-0.20	-0.09
Statistics bias off									
min result	-0.29	-0.28	-0.69	-1.03	-1.42	-2.23	-4.13	-3.97	-1.11
max result	-0.19	-0.13	-0.07	-0.19	-0.24	-0.23	-0.20	-0.20	-0.09
average	-0.25	-0.24	-0.32	-0.41	-0.52	-0.77	-1.34	-1.30	-0.38
sigma	0.04	0.06	0.22	0.35	0.51	0.86	1.72	1.65	0.44



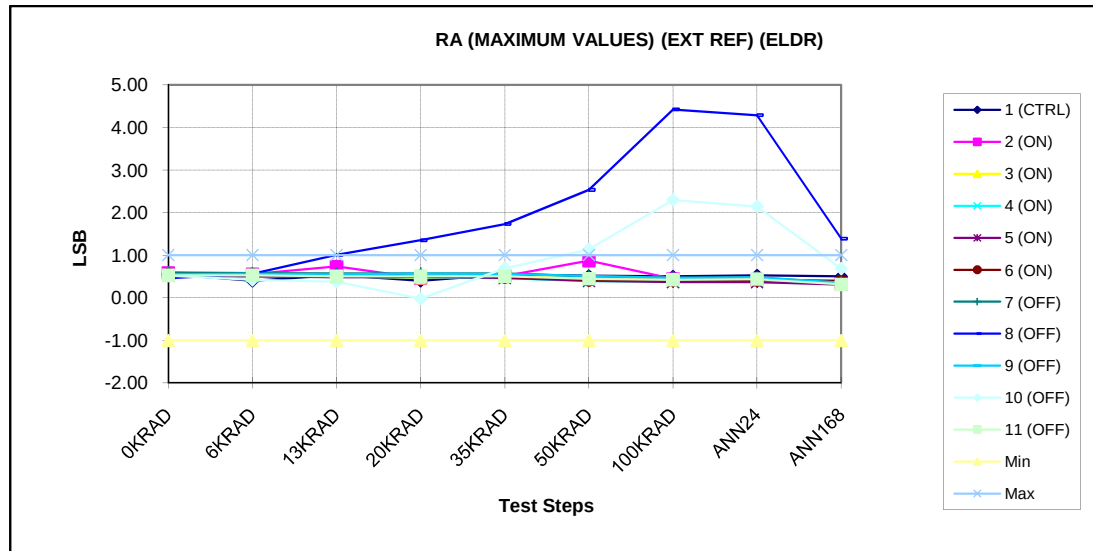
RA (MIN VALUES) (EXT REF) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Max	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	-0.19	-0.20	-0.19	-0.20	-0.21	-0.19	-0.20	-0.21	-0.20

Bias on results									
2 (ON)	-0.29	-0.29	-0.29	-0.27	-0.27	-0.27	-0.24	-0.24	-0.12
3 (ON)	-0.28	-0.27	-0.26	-0.25	-0.23	-0.22	-0.17	-0.16	-0.08
4 (ON)	-0.25	-0.24	-0.24	-0.23	-0.24	-0.22	-0.19	-0.19	-0.09
5 (ON)	-0.26	-0.26	-0.25	-0.24	-0.25	-0.22	-0.19	-0.19	-0.10
6 (ON)	-0.27	-0.27	-0.26	-0.26	-0.24	-0.24	-0.22	-0.22	-0.12
Statistics bias on									
min result	-0.29	-0.29	-0.29	-0.27	-0.27	-0.27	-0.24	-0.24	-0.12
max result	-0.25	-0.24	-0.24	-0.23	-0.23	-0.22	-0.17	-0.16	-0.08
average	-0.27	-0.27	-0.26	-0.25	-0.25	-0.23	-0.20	-0.20	-0.10
sigma	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.02

Bias off results									
7 (OFF)	-0.30	-0.28	-0.29	-0.29	-0.29	-0.28	-0.26	-0.26	-0.14
8 (OFF)	-0.19	-0.12	-0.29	-0.48	-0.67	-1.12	-2.20	-2.11	-0.70
9 (OFF)	-0.27	-0.27	-0.28	-0.28	-0.28	-0.27	-0.25	-0.26	-0.10
10 (OFF)	-0.24	-0.25	-0.24	-0.24	-0.23	-0.21	-0.21	-0.21	-0.10
11 (OFF)	-0.25	-0.24	-0.24	-0.24	-0.24	-0.23	-0.21	-0.22	-0.09
Statistics bias off									
min result	-0.30	-0.28	-0.29	-0.48	-0.67	-1.12	-2.20	-2.11	-0.70
max result	-0.19	-0.12	-0.24	-0.24	-0.23	-0.21	-0.21	-0.21	-0.09
average	-0.25	-0.23	-0.27	-0.31	-0.34	-0.42	-0.63	-0.61	-0.23
sigma	0.04	0.06	0.02	0.10	0.19	0.39	0.88	0.84	0.26



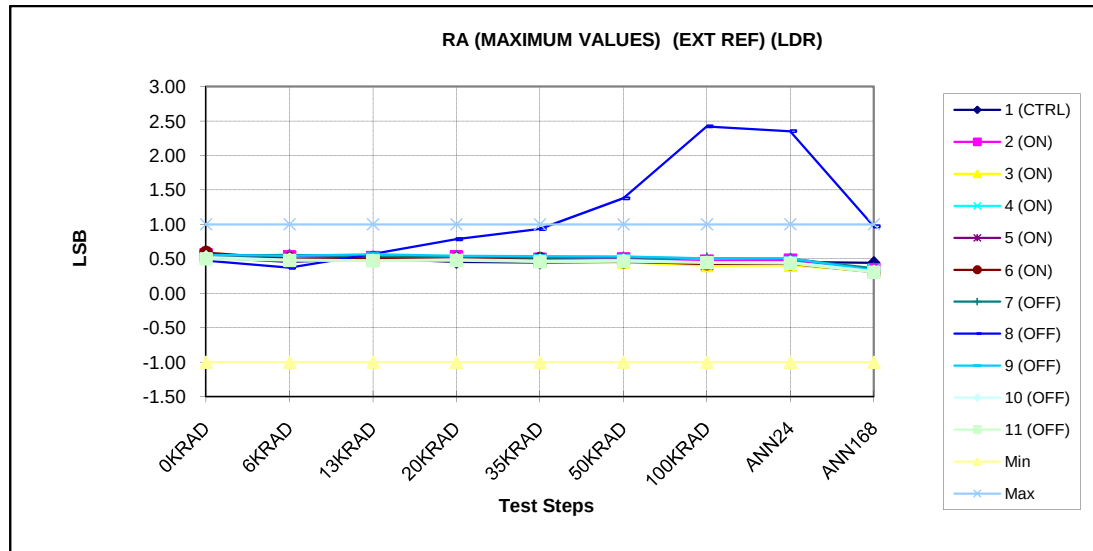
RA (MIN VALUES) (EXT REF) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.26	-0.25	-0.24	-0.23	-0.21	-0.19	-0.15	-0.14	-0.09
ELDR OFF	-0.25	-0.24	-0.32	-0.41	-0.52	-0.77	-1.34	-1.30	-0.38
LDR ON	-0.27	-0.27	-0.26	-0.25	-0.25	-0.23	-0.20	-0.20	-0.10
LDR OFF	-0.25	-0.23	-0.27	-0.31	-0.34	-0.42	-0.63	-0.61	-0.23



RA (MAX VALUES) (EXT REF) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-1	-1	-1	-1	-1	-1	-1	-1	-1
Max	1	1	1	1	1	1	1	1	1
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	0.55	0.40	0.53	0.40	0.54	0.52	0.50	0.52	0.50

Bias on results									
2 (ON)	0.58	0.56	0.73	0.46	0.51	0.87	0.44	0.42	0.34
3 (ON)	0.56	0.55	0.50	0.47	0.49	0.46	0.43	0.43	0.34
4 (ON)	0.53	0.50	0.49	0.48	0.46	0.39	0.37	0.36	0.34
5 (ON)	0.52	0.51	0.48	0.49	0.47	0.40	0.37	0.37	0.31
6 (ON)	0.54	0.53	0.52	0.51	0.49	0.42	0.42	0.42	0.40
Statistics bias on									
min result	0.52	0.50	0.48	0.46	0.46	0.39	0.37	0.36	0.31
max result	0.58	0.56	0.73	0.51	0.51	0.87	0.44	0.43	0.40
average	0.55	0.53	0.55	0.48	0.48	0.51	0.41	0.40	0.34
sigma	0.03	0.02	0.11	0.02	0.02	0.20	0.03	0.03	0.03

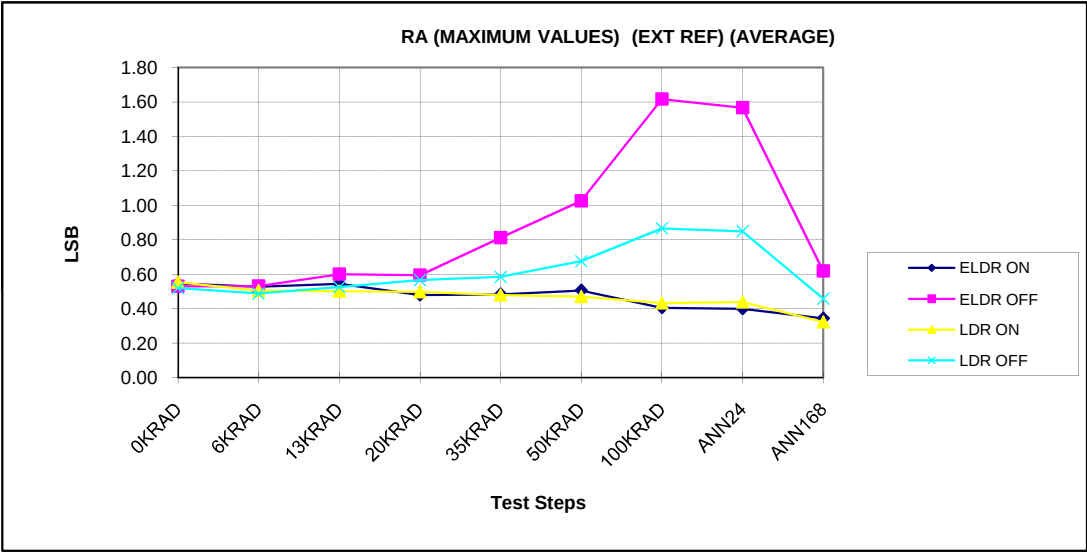
Bias off results									
7 (OFF)	0.60	0.58	0.57	0.58	0.58	0.50	0.48	0.48	0.35
8 (OFF)	0.46	0.57	1.00	1.35	1.73	2.53	4.42	4.29	1.39
9 (OFF)	0.55	0.57	0.55	0.57	0.56	0.51	0.47	0.48	0.35
10 (OFF)	0.52	0.42	0.37	-0.03	0.69	1.14	2.29	2.15	0.69
11 (OFF)	0.53	0.53	0.51	0.50	0.50	0.45	0.42	0.44	0.31
Statistics bias off									
min result	0.46	0.42	0.37	-0.03	0.50	0.45	0.42	0.44	0.31
max result	0.60	0.58	1.00	1.35	1.73	2.53	4.42	4.29	1.39
average	0.53	0.53	0.60	0.60	0.81	1.03	1.62	1.57	0.62
sigma	0.05	0.06	0.24	0.49	0.52	0.89	1.76	1.69	0.46



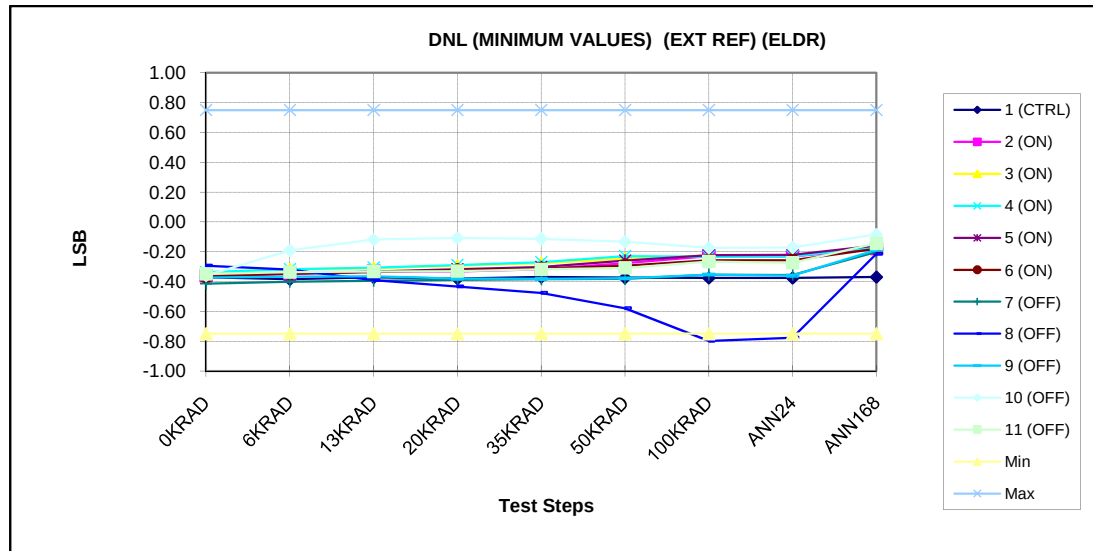
RA (MAX VALUES) (EXT REF) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-1	-1	-1	-1	-1	-1	-1	-1	-1
Max	1	1	1	1	1	1	1	1	1
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	0.52	0.45	0.50	0.46	0.45	0.45	0.45	0.45	0.44

Bias on results									
2 (ON)	0.56	0.53	0.52	0.53	0.50	0.50	0.47	0.48	0.34
3 (ON)	0.54	0.51	0.49	0.49	0.46	0.45	0.40	0.40	0.32
4 (ON)	0.53	0.50	0.50	0.50	0.47	0.48	0.44	0.45	0.34
5 (ON)	0.55	0.49	0.50	0.48	0.47	0.46	0.43	0.43	0.31
6 (ON)	0.59	0.50	0.51	0.50	0.50	0.46	0.43	0.43	0.31
Statistics bias on									
min result	0.53	0.49	0.49	0.48	0.46	0.45	0.40	0.40	0.31
max result	0.59	0.53	0.52	0.53	0.50	0.50	0.47	0.48	0.34
average	0.55	0.51	0.50	0.50	0.48	0.47	0.43	0.44	0.32
sigma	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.01

Bias off results									
7 (OFF)	0.54	0.56	0.53	0.54	0.51	0.52	0.50	0.50	0.36
8 (OFF)	0.47	0.37	0.57	0.79	0.93	1.38	2.42	2.35	0.97
9 (OFF)	0.56	0.54	0.57	0.54	0.54	0.54	0.51	0.51	0.34
10 (OFF)	0.53	0.49	0.48	0.49	0.48	0.48	0.45	0.45	0.32
11 (OFF)	0.50	0.48	0.47	0.47	0.46	0.46	0.45	0.43	0.30
Statistics bias off									
min result	0.47	0.37	0.47	0.47	0.46	0.46	0.45	0.43	0.30
max result	0.56	0.56	0.57	0.79	0.93	1.38	2.42	2.35	0.97
average	0.52	0.49	0.52	0.57	0.58	0.68	0.87	0.85	0.46
sigma	0.03	0.07	0.05	0.13	0.20	0.39	0.87	0.84	0.29



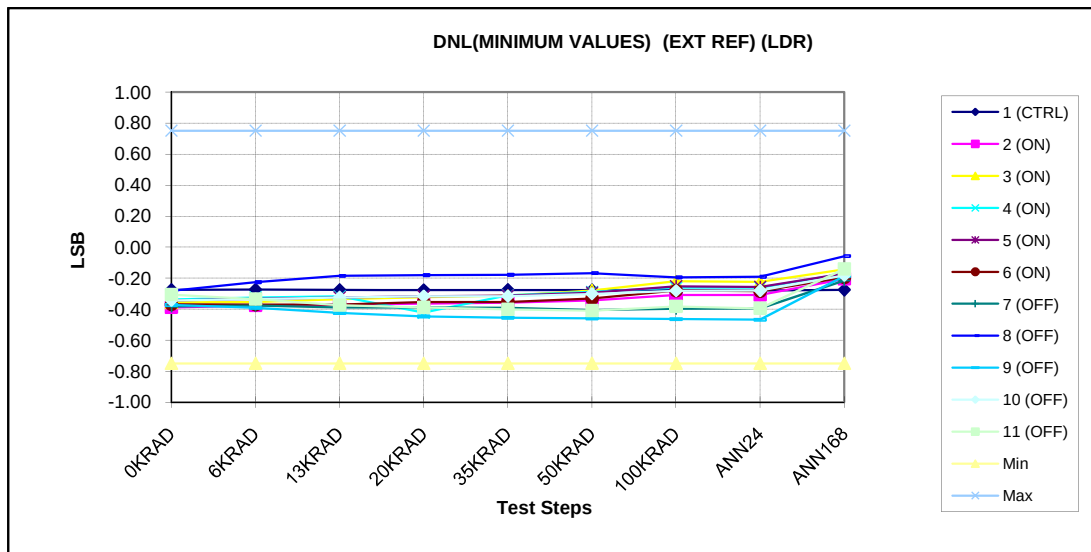
RA (MAX VALUES) (EXT REF) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.55	0.53	0.55	0.48	0.48	0.51	0.41	0.40	0.34
ELDR OFF	0.53	0.53	0.60	0.60	0.81	1.03	1.62	1.57	0.62
LDR ON	0.55	0.51	0.50	0.50	0.48	0.47	0.43	0.44	0.32
LDR OFF	0.52	0.49	0.52	0.57	0.58	0.68	0.87	0.85	0.46



DNL (MIN VALUES) (EXT REF) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75
Max	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	-0.37	-0.39	-0.37	-0.38	-0.37	-0.38	-0.38	-0.38	-0.37

Bias on results									
2 (ON)	-0.36	-0.35	-0.33	-0.33	-0.32	-0.28	-0.23	-0.23	-0.18
3 (ON)	-0.34	-0.32	-0.31	-0.30	-0.28	-0.25	-0.23	-0.22	-0.17
4 (ON)	-0.34	-0.32	-0.31	-0.29	-0.27	-0.23	-0.23	-0.23	-0.17
5 (ON)	-0.36	-0.35	-0.33	-0.32	-0.30	-0.26	-0.22	-0.22	-0.16
6 (ON)	-0.37	-0.35	-0.34	-0.32	-0.31	-0.29	-0.26	-0.26	-0.18
Statistics bias on									
min result	-0.37	-0.35	-0.34	-0.33	-0.32	-0.29	-0.26	-0.26	-0.18
max result	-0.34	-0.32	-0.31	-0.29	-0.27	-0.23	-0.22	-0.22	-0.16
average	-0.35	-0.34	-0.32	-0.31	-0.30	-0.26	-0.23	-0.23	-0.17
sigma	0.01	0.02	0.01	0.02	0.02	0.03	0.01	0.01	0.01

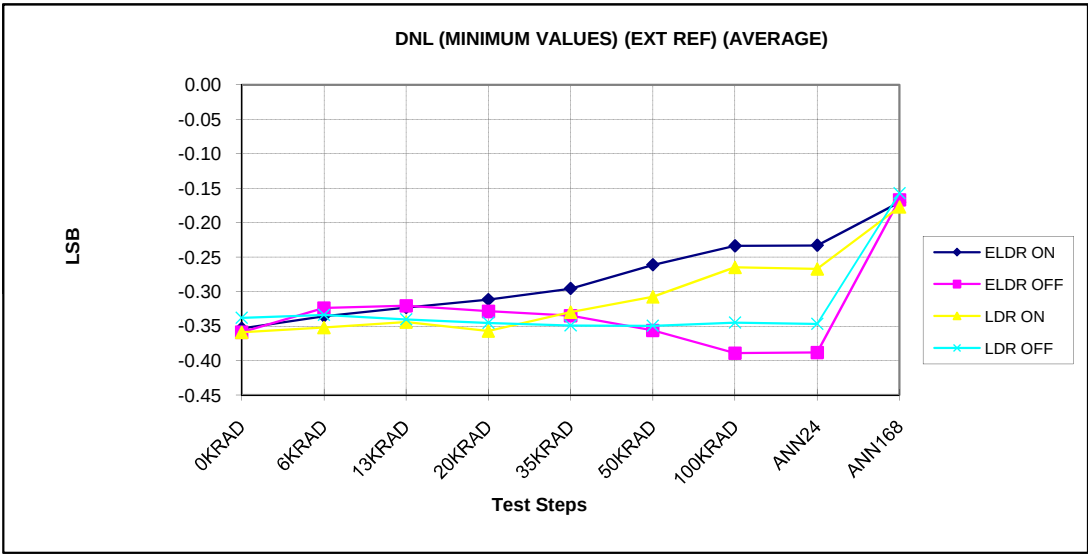
Bias off results									
7 (OFF)	-0.42	-0.40	-0.40	-0.39	-0.38	-0.38	-0.35	-0.36	-0.20
8 (OFF)	-0.29	-0.32	-0.39	-0.43	-0.48	-0.58	-0.80	-0.78	-0.22
9 (OFF)	-0.38	-0.37	-0.37	-0.38	-0.38	-0.38	-0.35	-0.36	-0.19
10 (OFF)	-0.36	-0.19	-0.12	-0.11	-0.11	-0.13	-0.17	-0.17	-0.08
11 (OFF)	-0.35	-0.34	-0.33	-0.33	-0.32	-0.31	-0.27	-0.28	-0.15
Statistics bias off									
min result	-0.42	-0.40	-0.40	-0.43	-0.48	-0.58	-0.80	-0.78	-0.22
max result	-0.29	-0.19	-0.12	-0.11	-0.11	-0.13	-0.17	-0.17	-0.08
average	-0.36	-0.32	-0.32	-0.33	-0.34	-0.36	-0.39	-0.39	-0.17
sigma	0.04	0.08	0.12	0.13	0.14	0.16	0.24	0.23	0.05



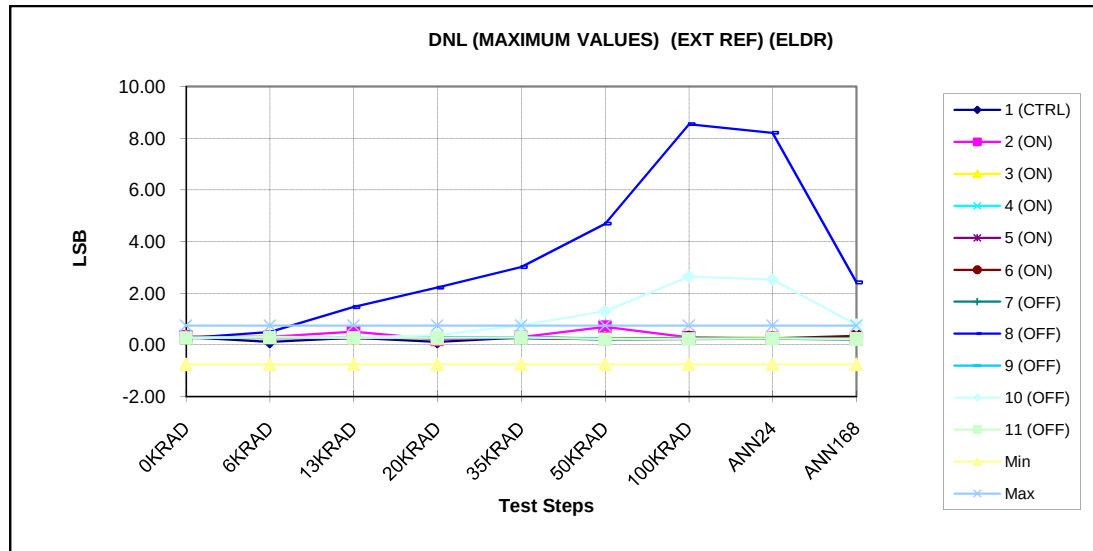
DNL (MIN VALUES) (EXT REF) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75
Max	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	-0.28	-0.27	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28

Bias on results									
2 (ON)	-0.39	-0.38	-0.37	-0.36	-0.36	-0.34	-0.31	-0.31	-0.21
3 (ON)	-0.36	-0.35	-0.34	-0.33	-0.31	-0.28	-0.22	-0.23	-0.15
4 (ON)	-0.34	-0.33	-0.32	-0.42	-0.31	-0.29	-0.26	-0.26	-0.17
5 (ON)	-0.34	-0.33	-0.33	-0.32	-0.31	-0.29	-0.25	-0.26	-0.17
6 (ON)	-0.37	-0.37	-0.37	-0.36	-0.36	-0.33	-0.28	-0.29	-0.20
Statistics bias on									
min result	-0.39	-0.38	-0.37	-0.42	-0.36	-0.34	-0.31	-0.31	-0.21
max result	-0.34	-0.33	-0.32	-0.32	-0.31	-0.28	-0.22	-0.23	-0.15
average	-0.36	-0.35	-0.34	-0.36	-0.33	-0.31	-0.27	-0.27	-0.18
sigma	0.02	0.02	0.03	0.04	0.02	0.03	0.03	0.03	0.02

Bias off results									
7 (OFF)	-0.38	-0.38	-0.39	-0.39	-0.39	-0.41	-0.40	-0.40	-0.22
8 (OFF)	-0.28	-0.23	-0.19	-0.18	-0.18	-0.17	-0.20	-0.19	-0.06
9 (OFF)	-0.37	-0.39	-0.43	-0.45	-0.46	-0.46	-0.47	-0.47	-0.19
10 (OFF)	-0.34	-0.34	-0.33	-0.32	-0.32	-0.30	-0.28	-0.28	-0.18
11 (OFF)	-0.31	-0.34	-0.38	-0.39	-0.40	-0.41	-0.38	-0.40	-0.14
Statistics bias off									
min result	-0.38	-0.39	-0.43	-0.45	-0.46	-0.46	-0.47	-0.47	-0.22
max result	-0.28	-0.23	-0.19	-0.18	-0.18	-0.17	-0.20	-0.19	-0.06
average	-0.34	-0.33	-0.34	-0.35	-0.35	-0.35	-0.35	-0.35	-0.16
sigma	0.04	0.06	0.09	0.10	0.11	0.12	0.11	0.11	0.06



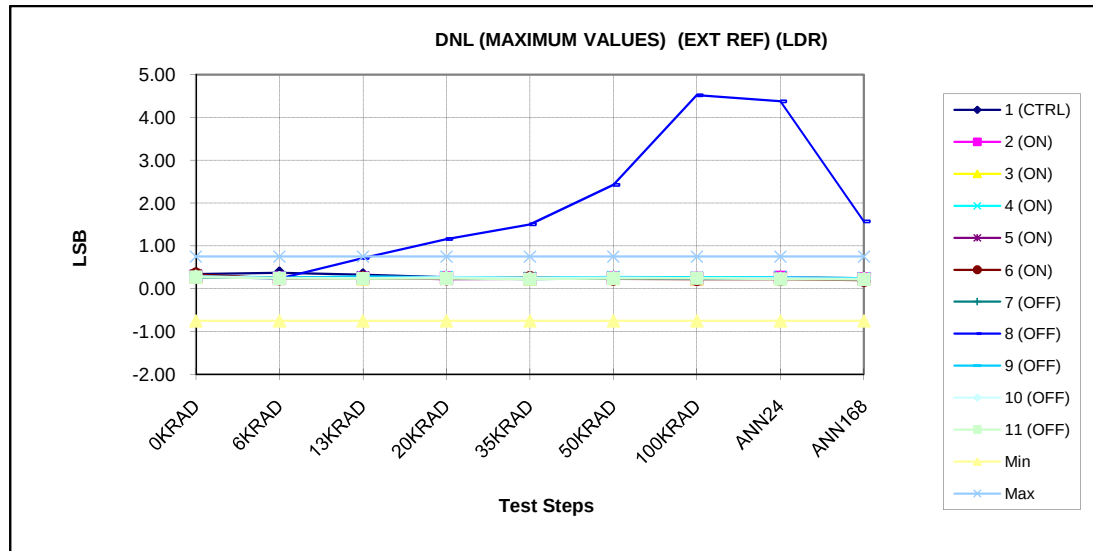
DNL (MIN VALUES) (EXT REF) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	-0.35	-0.34	-0.32	-0.31	-0.30	-0.26	-0.23	-0.23	-0.17
ELDR OFF	-0.36	-0.32	-0.32	-0.33	-0.34	-0.36	-0.39	-0.39	-0.17
LDR ON	-0.36	-0.35	-0.34	-0.36	-0.33	-0.31	-0.27	-0.27	-0.18
LDR OFF	-0.34	-0.33	-0.34	-0.35	-0.35	-0.35	-0.35	-0.35	-0.16



DNL(MAX VALUES)(EXT REF) (ELDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75
Max	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	0.31	0.12	0.28	0.12	0.29	0.26	0.24	0.27	0.25

Bias on results									
2 (ON)	0.32	0.31	0.51	0.21	0.29	0.70	0.29	0.26	0.24
3 (ON)	0.32	0.32	0.29	0.26	0.30	0.27	0.29	0.29	0.25
4 (ON)	0.29	0.27	0.27	0.27	0.27	0.22	0.25	0.24	0.22
5 (ON)	0.27	0.27	0.26	0.27	0.26	0.21	0.23	0.24	0.22
6 (ON)	0.29	0.29	0.28	0.29	0.28	0.23	0.28	0.26	0.35
Statistics bias on									
min result	0.27	0.27	0.26	0.21	0.26	0.21	0.23	0.24	0.22
max result	0.32	0.32	0.51	0.29	0.30	0.70	0.29	0.29	0.35
average	0.30	0.29	0.32	0.26	0.28	0.33	0.27	0.26	0.26
sigma	0.02	0.02	0.10	0.03	0.01	0.21	0.03	0.02	0.05

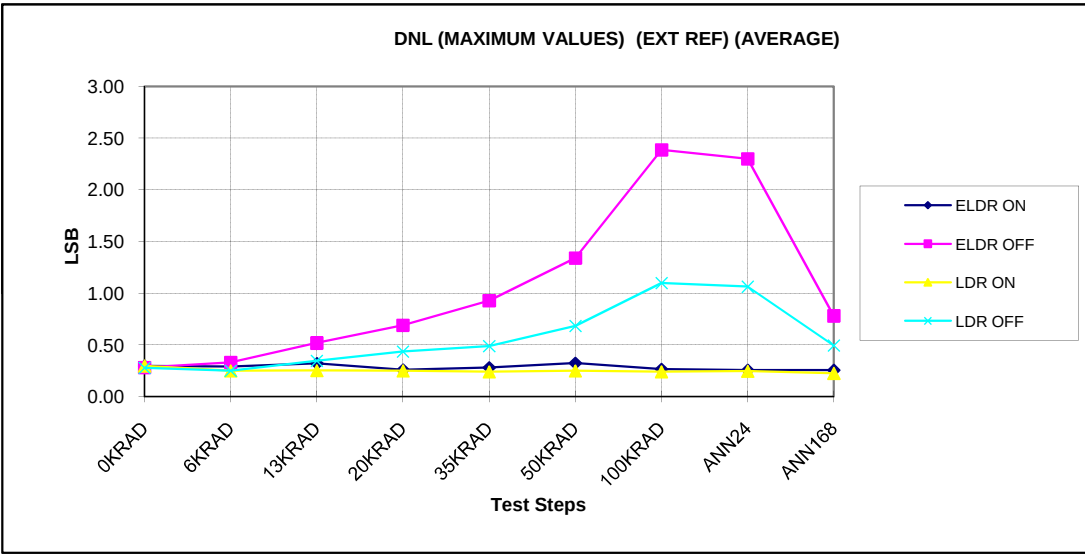
Bias off results									
7 (OFF)	0.31	0.29	0.28	0.29	0.30	0.23	0.26	0.25	0.24
8 (OFF)	0.26	0.50	1.47	2.22	3.02	4.69	8.54	8.21	2.42
9 (OFF)	0.28	0.29	0.28	0.30	0.29	0.24	0.24	0.26	0.24
10 (OFF)	0.28	0.31	0.29	0.38	0.76	1.30	2.65	2.53	0.77
11 (OFF)	0.28	0.29	0.28	0.27	0.28	0.23	0.24	0.25	0.23
Statistics bias off									
min result	0.26	0.29	0.28	0.27	0.28	0.23	0.24	0.25	0.23
max result	0.31	0.50	1.47	2.22	3.02	4.69	8.54	8.21	2.42
average	0.28	0.33	0.52	0.69	0.93	1.34	2.39	2.30	0.78
sigma	0.02	0.09	0.53	0.85	1.18	1.93	3.59	3.45	0.95



DNL(MAX VALUES)(EXT REF) (LDR)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
Min	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75
Max	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Unit	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB	LSB
Control Results									
1 (CTRL)	0.34	0.37	0.32	0.27	0.25	0.27	0.25	0.27	0.25

Bias on results									
2 (ON)	0.28	0.25	0.24	0.25	0.23	0.25	0.24	0.26	0.23
3 (ON)	0.28	0.26	0.24	0.25	0.23	0.25	0.24	0.25	0.23
4 (ON)	0.29	0.26	0.27	0.27	0.25	0.27	0.26	0.26	0.24
5 (ON)	0.30	0.25	0.26	0.23	0.23	0.25	0.24	0.24	0.23
6 (ON)	0.33	0.24	0.25	0.24	0.26	0.23	0.22	0.22	0.20
Statistics bias on									
min result	0.28	0.24	0.24	0.23	0.23	0.23	0.22	0.22	0.20
max result	0.33	0.26	0.27	0.27	0.26	0.27	0.26	0.26	0.24
average	0.30	0.25	0.25	0.25	0.24	0.25	0.24	0.25	0.23
sigma	0.02	0.01	0.01	0.02	0.01	0.02	0.01	0.02	0.02

Bias off results									
7 (OFF)	0.26	0.27	0.25	0.25	0.22	0.24	0.24	0.24	0.22
8 (OFF)	0.29	0.24	0.72	1.16	1.50	2.42	4.52	4.38	1.57
9 (OFF)	0.29	0.26	0.29	0.27	0.26	0.27	0.25	0.24	0.24
10 (OFF)	0.29	0.26	0.24	0.26	0.25	0.26	0.25	0.24	0.23
11 (OFF)	0.27	0.24	0.24	0.24	0.22	0.24	0.24	0.22	0.22
Statistics bias off									
min result	0.26	0.24	0.24	0.24	0.22	0.24	0.24	0.22	0.22
max result	0.29	0.27	0.72	1.16	1.50	2.42	4.52	4.38	1.57
average	0.28	0.25	0.35	0.44	0.49	0.69	1.10	1.06	0.49
sigma	0.02	0.01	0.21	0.40	0.57	0.97	1.91	1.85	0.60



DNL(MAX VALUES)(EXT REF) (AVERAGE)	0KRAD	6KRAD	13KRAD	20KRAD	35KRAD	50KRAD	100KRAD	ANN24	ANN168
ELDR ON	0.30	0.29	0.32	0.26	0.28	0.33	0.27	0.26	0.26
ELDR OFF	0.28	0.33	0.52	0.69	0.93	1.34	2.39	2.30	0.78
LDR ON	0.30	0.25	0.25	0.25	0.24	0.25	0.24	0.25	0.23
LDR OFF	0.28	0.25	0.35	0.44	0.49	0.69	1.10	1.06	0.49



**TOTAL DOSE RADIATION
TEST REPORT
No. ATN-RR-012/2012**

Issue: 2/Rev:

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Date: 2012/11/12

R.L: 2011902919 / 2011902920

ANNEX II DOSIMETRY



RADIATION TEST SUMMARY

Irradiation Test Report Number : **20139**

Date : **18 June 2012**

Test Requester :	Name	Alter Technology
	Address	Avd. Tomas Alba Edison, 4 41092 Seville (SPAIN)
	Personnel present :	E Munoz Plaza, J Jimenez Carreira, E Bernabeu Torres
	Project/Cost Code :	TRP
Devices/Components irradiated :	Linear Devices AD565AT,OP470,AD584,PM139X,REF02,OP27,UC1843	
Device/Component details :	AD565AT,OP470,OP27,AD565AT,OLH249,OLH449 66183-105,AD565AT,PM139X,PM139X,SOC5551,UC1846	
	<i>(conditions and identification)</i>	

Dosimetry Chain used : B
Dosimeter : Farmer model 2680 – s/n 109
Gas Ionisation Chamber : NE Type 2571 – s/n 3322
Measured Dosimetry : Total Ionising Dose in [Gy] (water)

Dosimetry Procedure : ESCC 22900 section 4.1.1
TEC-QEC/PR001 - Appendix D
(Total Ionising Dose accredited by RvA according to ISO/IEC 17025.2005
Certificate No. L517)

(With the exception of the above specified dosimetry equipment, ESTEC ⁶⁰Co Facility does not assume any liability for the calibration status of any other equipment lent to the requester)

Irradiation Test Campaign Details

Source Activity : 79.8 TBq

on date : 15 February 2012

	units	Min.	Max.	Time-weighted Average	Dosimeter position relative to ⁶⁰ Co source		
Temperature	°C	24.10	25.70	24.99	X	cm	130
Pressure	mbar	982.60	1036.30	1014.74	Y	cm	736
Relative Humidity	%	22.20	42.90	32.08	Z	cm	62

<i>Run</i>	<i>Start Date & Time (CET)</i>	<i>End Date & Time (CET)</i>	<i>Total Ionising Dose [Gy] (water)</i>	<i>Dose Rate [mGy/h] (water)</i>
1	15/02/2012 15:18	15/02/2012 15:54	0.25	0.41
2	15/02/2012 16:16	16/02/2012 09:13	7.02	0.41
3	16/02/2012 09:18	16/02/2012 11:10	0.77	0.41
4	16/02/2012 11:20	17/02/2012 13:28	10.80	0.41

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5	17/02/2012 13:33	17/02/2012 15:33	0.82	0.41
6	17/02/2012 15:42	20/02/2012 09:08	27.02	0.41
7	20/02/2012 09:18	20/02/2012 11:11	0.78	0.41
8	20/02/2012 11:23	20/02/2012 13:49	1.00	0.41
9	20/02/2012 13:55	20/02/2012 15:16	0.55	0.41
10	20/02/2012 15:21	21/02/2012 09:36	7.47	0.41
11	21/02/2012 09:43	21/02/2012 10:58	0.52	0.41
12	21/02/2012 11:02	21/02/2012 14:00	1.22	0.41
13	21/02/2012 14:16	21/02/2012 16:14		
14	21/02/2012 16:35	22/02/2012 13:18	8.54	0.41
15	22/02/2012 13:28	22/02/2012 15:09	0.69	0.41
16	22/02/2012 15:17	23/02/2012 09:18	7.43	0.41
17	23/02/2012 09:25	23/02/2012 10:20	0.38	0.41
18	23/02/2012 11:09	24/02/2012 18:31	12.94	0.41
19	24/02/2012 18:33	27/02/2012 08:33	25.58	0.41
20	27/02/2012 08:47	27/02/2012 10:06	0.49	0.37
21	27/02/2012 10:12	27/02/2012 11:09	0.36	0.38
22	27/02/2012 11:11	27/02/2012 13:07	0.73	0.38
23	27/02/2012 13:10	27/02/2012 15:12	0.77	0.38
24	27/02/2012 15:16	27/02/2012 16:28	0.46	0.38
25	27/02/2012 16:31	28/02/2012 13:00	8.44	0.41
26	28/02/2012 13:10	28/02/2012 16:33	1.33	0.39
27	28/02/2012 16:36	28/02/2012 19:40	1.21	0.39
28	28/02/2012 19:42	29/02/2012 08:44	5.13	0.39
29	29/02/2012 08:48	29/02/2012 13:16	1.83	0.41
30	29/02/2012 13:18	29/02/2012 14:53	0.65	0.41
31	29/02/2012 15:06	29/02/2012 16:50		
32	29/02/2012 17:10	01/03/2012 08:36	6.30	0.41
33	01/03/2012 09:08	01/03/2012 14:03	2.01	0.41
34	01/03/2012 14:15	01/03/2012 16:29	0.92	0.41
35	01/03/2012 16:32	02/03/2012 08:50	6.70	0.41
36	02/03/2012 08:58	02/03/2012 17:29	3.53	0.41
37	02/03/2012 17:47	06/03/2012 09:02	37.75	0.43
38	06/03/2012 09:14	06/03/2012 09:15	0.00	0.31
39	06/03/2012 09:18	06/03/2012 10:36	0.51	0.39
40	06/03/2012 10:39	06/03/2012 11:44	0.43	0.40
41	06/03/2012 11:47	06/03/2012 13:56	0.85	0.39
42	06/03/2012 13:59	06/03/2012 14:49	0.33	0.39

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43	06/03/2012 14:52	06/03/2012 16:29	0.64	0.39
44	06/03/2012 16:35	06/03/2012 18:30	0.76	0.40
45	06/03/2012 18:33	07/03/2012 08:57	5.68	0.39
46	07/03/2012 09:01	07/03/2012 10:16	0.51	0.41
47	07/03/2012 10:23	08/03/2012 08:56	9.23	0.41
48	08/03/2012 09:06	08/03/2012 14:16	2.00	0.39
49	08/03/2012 14:29	08/03/2012 16:10		
50	08/03/2012 16:27	09/03/2012 09:19	6.90	0.41
51	09/03/2012 09:22	09/03/2012 11:40	0.94	0.41
52	09/03/2012 11:42	12/03/2012 13:22	30.14	0.41
53	12/03/2012 13:25	12/03/2012 15:53	1.01	0.41
54	12/03/2012 15:55	13/03/2012 09:04	7.00	0.41
55	13/03/2012 09:14	14/03/2012 08:49	9.23	0.39
56	14/03/2012 08:56	14/03/2012 11:37	1.05	0.39
57	14/03/2012 11:43	14/03/2012 17:04	2.09	0.39
58	14/03/2012 17:09	15/03/2012 09:02	6.48	0.41
59	15/03/2012 09:08	15/03/2012 09:37	0.19	0.39
60	15/03/2012 09:42	15/03/2012 15:00	2.07	0.39
61	15/03/2012 15:05	15/03/2012 17:14	0.88	0.41
62	15/03/2012 17:21	16/03/2012 10:24	6.68	0.39
63	16/03/2012 10:31	16/03/2012 16:01	2.15	0.39
64	16/03/2012 16:15	19/03/2012 09:08	26.46	0.41
65	19/03/2012 09:33	19/03/2012 09:35	0.01	0.40
66	19/03/2012 09:37	19/03/2012 10:23	0.31	0.41
67*	19/03/2012 11:22	19/03/2012 13:44	0.96	0.41
68	19/03/2012 14:02	19/03/2012 15:39		
69	19/03/2012 15:58	20/03/2012 10:19	7.32	0.41
70	20/03/2012 10:27	20/03/2012 10:47	0.14	0.40
71	20/03/2012 10:50	20/03/2012 11:09	0.13	0.41
72	20/03/2012 11:12	20/03/2012 12:45	0.62	0.40
73	20/03/2012 12:47	20/03/2012 13:39	0.35	0.41
74	20/03/2012 13:42	20/03/2012 16:29	1.10	0.40
75	20/03/2012 16:31	20/03/2012 17:40	0.47	0.41
76	20/03/2012 17:43	21/03/2012 09:08	6.13	0.40
77	21/03/2012 09:11	21/03/2012 10:22	0.49	0.41
78	21/03/2012 10:28	21/03/2012 10:45	0.12	0.40
79	21/03/2012 10:47	21/03/2012 11:27	0.27	0.41
80	21/03/2012 11:30	21/03/2012 11:52	0.15	0.40

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81	21/03/2012 11:54	21/03/2012 12:44	0.34	0.41
82	21/03/2012 12:47	21/03/2012 13:40	0.35	0.40
83	21/03/2012 13:42	21/03/2012 14:36	0.37	0.41
84	21/03/2012 14:38	21/03/2012 15:42	0.42	0.40
85	21/03/2012 15:44	21/03/2012 16:19	0.24	0.41
86	21/03/2012 16:21	21/03/2012 17:01	0.26	0.40
87	21/03/2012 17:05	30/03/2012 09:14	84.22	0.41
88	30/03/2012 09:24	30/03/2012 11:16	0.76	0.41
89	30/03/2012 11:20	30/03/2012 11:22	0.01	0.40
90	30/03/2012 11:26	30/03/2012 14:01	1.05	0.41
91	30/03/2012 14:05	30/03/2012 15:52	0.72	0.41
92	30/03/2012 15:56	30/03/2012 19:24	1.42	0.41
93	30/03/2012 20:03	30/03/2012 20:06	0.02	0.39
94	30/03/2012 20:09	30/03/2012 20:24	0.11	0.41
95	30/03/2012 20:27	30/03/2012 20:30	0.03	0.40
96	30/03/2012 20:32	30/03/2012 20:45	0.09	0.41
97	30/03/2012 20:49	30/03/2012 20:57	0.05	0.40
98	30/03/2012 21:21	02/04/2012 08:58	24.41	0.41
99	02/04/2012 09:01	03/04/2012 14:04	11.87	0.41
100	03/04/2012 14:22	03/04/2012 19:59	2.30	0.41
101	03/04/2012 20:05	03/04/2012 20:51	0.32	0.41
102	03/04/2012 20:57	04/04/2012 11:04	5.77	0.41
103	04/04/2012 11:07	04/04/2012 11:57	0.34	0.41
104	04/04/2012 12:02	05/04/2012 10:31	9.19	0.41
105	05/04/2012 10:37	05/04/2012 13:51	1.32	0.41
106	05/04/2012 14:11	05/04/2012 16:02	0.76	0.41
107	05/04/2012 16:04	10/04/2012 16:04	48.96	0.41
108	10/04/2012 17:38	11/04/2012 11:00	7.08	0.41
109	11/04/2012 13:32	11/04/2012 15:31	0.81	0.41
110	11/04/2012 15:34	12/04/2012 09:45	7.40	0.41
111	12/04/2012 11:06	12/04/2012 13:07	0.82	0.41
112	12/04/2012 13:35	12/04/2012 15:36	0.82	0.41
113	12/04/2012 15:52	12/04/2012 17:53	0.82	0.41
114	12/04/2012 18:08	13/04/2012 08:30	5.84	0.41
115	13/04/2012 08:45	13/04/2012 10:45	0.81	0.41
116	13/04/2012 10:57	13/04/2012 12:57	0.81	0.41
117	13/04/2012 13:10	13/04/2012 15:10	0.81	0.41
118	13/04/2012 15:24	13/04/2012 17:27	0.83	0.41

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119	13/04/2012 17:40	16/04/2012 08:39	25.59	0.41
120	16/04/2012 08:50	17/04/2012 15:26	12.41	0.41
121	17/04/2012 15:45	20/04/2012 10:10	26.90	0.40
122	20/04/2012 10:23	20/04/2012 10:24	0.01	0.38
123	20/04/2012 10:27	20/04/2012 10:37	0.07	0.39
124	20/04/2012 10:40	20/04/2012 10:41	0.01	0.39
125	20/04/2012 10:45	24/04/2012 11:20	39.04	0.40
126	24/04/2012 11:41	24/04/2012 13:39	0.80	0.40
127	24/04/2012 13:42	27/04/2012 11:00	28.03	0.40
128	27/04/2012 11:06	03/05/2012 11:36	58.37	0.40
129	03/05/2012 11:56	03/05/2012 13:20	0.55	0.40
130	03/05/2012 13:27	04/05/2012 10:15	8.38	0.40
131	04/05/2012 10:24	07/05/2012 13:22	30.16	0.40
132	07/05/2012 13:35	07/05/2012 17:30	1.57	0.40
133	07/05/2012 17:53	07/05/2012 18:50	0.38	0.40
134	07/05/2012 18:53	08/05/2012 10:58	6.46	0.40
135	08/05/2012 11:26	08/05/2012 12:46	0.54	0.40
136	08/05/2012 12:50	08/05/2012 17:00	1.67	0.40
137	08/05/2012 17:19	08/05/2012 18:25	0.44	0.40
138	08/05/2012 18:47	09/05/2012 10:51	6.47	0.40
139	09/05/2012 10:53	09/05/2012 12:02	0.46	0.40
140	09/05/2012 12:07	10/05/2012 14:36	10.62	0.40
141	10/05/2012 14:41	10/05/2012 16:12	0.60	0.40
142	10/05/2012 16:15	11/05/2012 14:19	8.86	0.40
143	11/05/2012 14:46	14/05/2012 15:41	29.25	0.40
144	14/05/2012 15:51	14/05/2012 16:15	0.16	0.40
145	14/05/2012 16:19	21/05/2012 12:34	65.65	0.40
146	21/05/2012 12:37	21/05/2012 15:36	1.20	0.40
147*	21/05/2012 16:11	21/05/2012 18:34	0.96	0.40
148	21/05/2012 19:39	23/05/2012 16:53	18.15	0.40
149	23/05/2012 17:14	25/05/2012 11:55	17.18	0.40
150	25/05/2012 11:57	29/05/2012 10:35	38.04	0.40
151	29/05/2012 10:38	29/05/2012 13:27	1.13	0.40
152	29/05/2012 13:34	29/05/2012 14:32	0.39	0.40
153	29/05/2012 14:35	31/05/2012 08:20	16.77	0.40
154	31/05/2012 08:23	04/06/2012 10:18	40.48	0.41
155	04/06/2012 10:31	04/06/2012 11:05	0.19	0.33
156	04/06/2012 11:08	04/06/2012 13:43	2.87	0.40

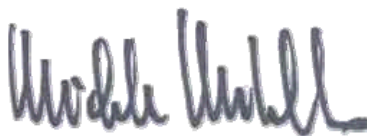
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157	04/06/2012 13:48	04/06/2012 15:27	1.14	0.33
158	04/06/2012 17:08	05/06/2012 08:58	6.04	0.40
159	05/06/2012 09:12	05/06/2012 11:04	0.41	0.40
160	05/06/2012 11:23	05/06/2012 13:45	0.54	0.33
161	05/06/2012 13:47	05/06/2012 17:24	1.04	0.29
162	05/06/2012 17:30	06/06/2012 08:45	3.83	0.25
163	06/06/2012 09:00	06/06/2012 10:06	0.24	0.22
164	06/06/2012 10:09	06/06/2012 11:12	0.24	0.23
165	06/06/2012 11:34	06/06/2012 14:16	0.59	0.22
166	06/06/2012 14:26	07/06/2012 08:44	3.73	0.21
167	07/06/2012 09:01	07/06/2012 11:04	0.78	0.38
168	07/06/2012 11:28	07/06/2012 16:33	1.93	0.38
169	07/06/2012 16:43	07/06/2012 18:23	0.70	0.42
170	07/06/2012 18:29	08/06/2012 11:03	6.40	0.39
171	08/06/2012 11:16	08/06/2012 13:01	0.67	0.38
172	08/06/2012 13:23	08/06/2012 17:54	1.72	0.38
173	08/06/2012 17:59	11/06/2012 08:54	27.18	0.43
174	11/06/2012 09:10	11/06/2012 11:09	0.80	0.40
175	11/06/2012 11:31	11/06/2012 13:21	0.73	0.40
176	11/06/2012 13:24	11/06/2012 14:21	0.38	0.40
177	11/06/2012 14:30	11/06/2012 14:55	0.15	0.37
178	11/06/2012 14:58	12/06/2012 08:45	6.70	0.38
179	12/06/2012 08:49	12/06/2012 09:30	0.25	0.37
180	12/06/2012 09:32	12/06/2012 11:11	0.62	0.38
181	12/06/2012 11:13	12/06/2012 11:53	0.25	0.37
182	12/06/2012 11:55	12/06/2012 13:50	0.72	0.38
183	12/06/2012 13:53	12/06/2012 14:51	0.37	0.38
184	12/06/2012 14:54	12/06/2012 16:40	0.67	0.38
185	12/06/2012 16:43	12/06/2012 17:32	0.32	0.39
186	12/06/2012 17:37	13/06/2012 13:55	8.06	0.40
187	13/06/2012 14:28	14/06/2012 10:15	7.89	0.40
188	14/06/2012 10:23	14/06/2012 11:20	0.38	0.40
189	14/06/2012 11:38	15/06/2012 09:55	8.89	0.40
190	15/06/2012 10:03	15/06/2012 10:53	0.33	0.40
191	15/06/2012 11:06	18/06/2012 09:24	28.04	0.40

Note: The uncertainty budgets (according to TEC-QEC/PR001 section 12) are: 4.2 % (k=2) for absorbed dose to water and 4.4% (k=2) for absorbed dose rate to water

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Notes: * Runs 67 & 147 without dosimetry. Dose rate taken from previous run with dosimetry.
Runs 13,31,49 & 68 – no dosimetry – devices out for measurements



Bob Nickson/Michele Muschitiello
(TEC-QEC Radiation Test Engineer)



Ali Zadeh
(TEC-QEC Section Head)

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RADIATION TEST SUMMARY

 Irradiation Test Report Number : **20139b**

 Date : **18 June 2012**

Test Requester :	Name	Alter Technology
	Address	Avd. Tomas Alba Edison, 4 41092 Seville (SPAIN)
Personnel present :	E Munoz Plaza, J Jimenez Carreira, E Bernabeu Torres	
Project/Cost Code :	TRP	
Devices/Components irradiated :	Linear Devices AD565AT,OP470,AD584,PM139X,REF02,OP27,UC1843	
Device/Component details :	AD565AT,OP470,OP27,AD565AT,OLH249,OLH449 66183-105,AD565AT,PM139X,PM139X,SOC5551,UC1846	
<i>(conditions and identification)</i>		

Dosimetry Chain used :	A
Dosimeter :	Farmer model 2680 – s/n 390
Gas Ionisation Chamber :	NE Type 2571 – s/n 2915
Measured Dosimetry :	Total Ionising Dose in [Gy] (water)

Dosimetry Procedure :	ESCC 22900 section 4.1.1 TEC-QEC/PR001 - Appendix D <i>(Total Ionising Dose accredited by RvA according to ISO/IEC 17025.2005 Certificate No. L517)</i>
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(With the exception of the above specified dosimetry equipment, ESTEC ⁶⁰Co Facility does not assume any liability for the calibration status of any other equipment lent to the requester)

Irradiation Test Campaign Details

Source Activity : 76.7 TBq

on date : 4 June 2012

	units	Min.	Max.	Time-weighted Average
Temperature	°C	25.00	25.60	25.43
Pressure	mbar	996.40	1019.10	1008.25
Relative Humidity	%	31.20	40.50	35.64

Dosimeter position relative to ⁶⁰ Co source		
X	cm	-10
Y	cm	231
Z	cm	0

Run	Start Date & Time (CET)	End Date & Time (CET)	Total Ionising Dose [Gy] (water)	Dose Rate [mGy/h] (water)
1	04/06/2012 17:08	05/06/2012 08:58	63.56	4.02
2	05/06/2012 09:12	05/06/2012 11:04		
3	05/06/2012 11:23	05/06/2012 13:45	9.47	4.01
4	05/06/2012 13:47	05/06/2012 17:24	14.52	4.02

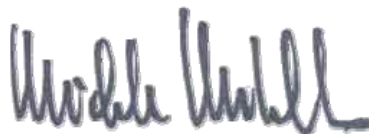
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5	05/06/2012 17:30	06/06/2012 08:45	61.25	4.02
6	06/06/2012 09:00	06/06/2012 10:06		
7	06/06/2012 10:09	06/06/2012 11:12		
8	06/06/2012 11:34	06/06/2012 14:16	9.51	3.52
9	06/06/2012 14:26	07/06/2012 08:44	71.58	3.97
10	07/06/2012 09:01	07/06/2012 11:04		
11	07/06/2012 11:28	07/06/2012 16:33	18.63	3.67
12	07/06/2012 16:43	07/06/2012 18:23	6.15	3.68
13	07/06/2012 18:29	08/06/2012 11:03	59.00	3.56
14	08/06/2012 11:16	08/06/2012 13:01		
15	08/06/2012 13:23	08/06/2012 17:54	13.66	3.02
16	08/06/2012 17:59	11/06/2012 08:54	212.74	3.38
17	11/06/2012 09:10	11/06/2012 11:09		
18	11/06/2012 11:31	11/06/2012 13:21	6.15	3.35
19	11/06/2012 13:24	11/06/2012 14:21	3.42	3.63
20	11/06/2012 14:30	11/06/2012 14:55	1.35	3.29
21	11/06/2012 14:58	12/06/2012 08:45	64.80	3.64
22	12/06/2012 08:49	12/06/2012 09:30	2.27	3.35
23	12/06/2012 09:32	12/06/2012 11:11	5.96	3.64
24	12/06/2012 11:13	12/06/2012 11:53	2.12	3.24
25	12/06/2012 11:55	12/06/2012 13:50	6.95	3.64
26	12/06/2012 13:53	12/06/2012 14:51	3.23	3.33
27	12/06/2012 14:54	12/06/2012 16:40	6.40	3.64
28	12/06/2012 16:43	12/06/2012 17:32	2.74	3.34
29	12/06/2012 17:37	13/06/2012 13:55	73.87	3.64
30	13/06/2012 14:28	14/06/2012 10:15	72.86	3.68
31	14/06/2012 10:23	14/06/2012 11:20	3.48	3.66
32	14/06/2012 11:38	15/06/2012 09:55	81.99	3.68
33	15/06/2012 10:03	15/06/2012 10:53	3.07	3.66
34	15/06/2012 11:06	18/06/2012 09:24	259.13	3.69

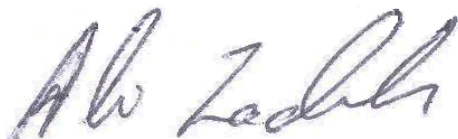
Note: The uncertainty budgets (according to TEC-QEC/PR001 section 12) are: 4.2 % (k=2) for absorbed dose to water and 4.4% (k=2) for absorbed dose rate to water

Notes: Runs 2,6,7,10,14 & 17 – no dosimetry – devices out for measurements

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