

WIREBONDS STATUS

dE				E-front			E-back				Last checked		
strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd	date	detector
1				1		~	X	1				8-21-07	E-front
2				2			X	2					
3				3			X	3					
4				4			X	4					
5				5			X	5					
6				6	~		X	6					
7				7			X	7					
8				8			X	8					
9				9	~		X	9					
10				10			X	10					
11				11			X	11					
12				12		~	X	12					
13				13			X	13					
14				14			X	14					
15				15			X	15					
16				16			X	16					
17				17			X	17					
18				18			X	18					
19				19			X	19					
20				20			X	20					
21				21			X	21					
22				22			X	22					
23				23			X	23					
24				24			X	24					
25				25			X	25					
26				26			X	26					
27				27			X	27					
28				28			X	28					
29				29			X	29					
30				30			X	30					
31				31			X	31					
32				32			X	32					

Legend:

X = bond missing / = bond broken ~ = bond damaged

T22 15

AE = 2573-3

Patecor ProFile

BB7-1500

Front Side Data

Strip	Current(nA)	DEP	Dep+30V
1	280.30		314.20
2	69.70		69.90
3	69.80		70.70
4	65.70		65.90
5	64.20		64.50
6	64.00		64.80
7	64.00		64.00
8	62.70		63.90
9	62.60		62.80
10	61.90		62.00
11	61.30		70.90
12	61.00		61.40
13	61.50		61.60
14	61.40		65.60
15	61.10		66.50
16	62.30		63.10
17	65.10		67.20
18	63.80		65.30
19	61.50		62.50
20	61.40		62.10
21	61.60		63.40
22	62.60		62.80
23	62.90		63.40
24	63.50		64.10
25	64.40		68.10
26	64.30		65.20
27	65.50		67.90
28	66.60		69.50
29	66.70		66.90
30	67.10		68.50
31	68.20		69.40
32	84.60		97.20
Total	2283.30		2375.30

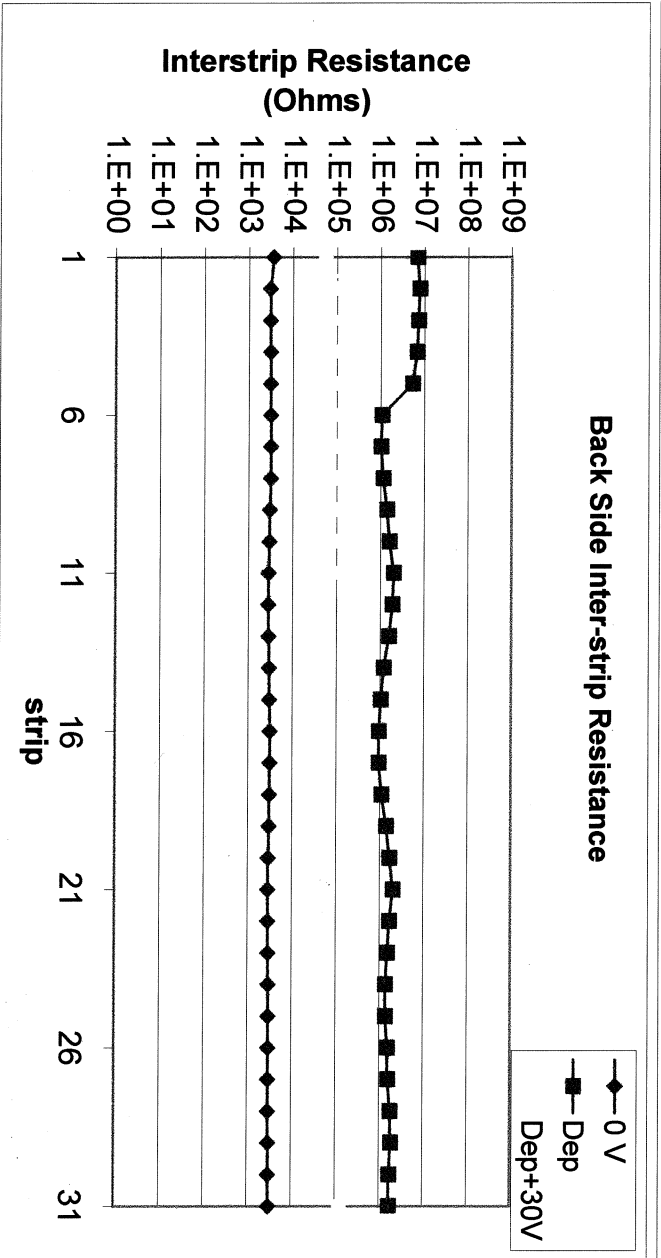
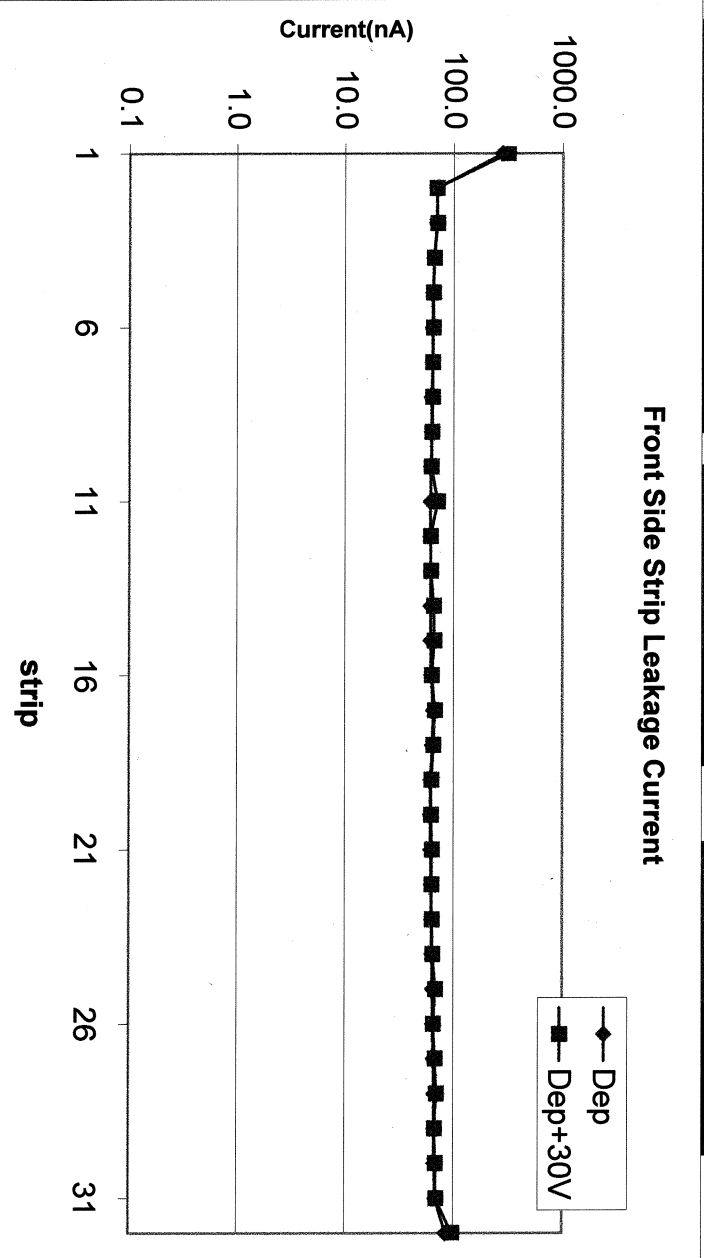
Wafer No.: 2573-3

Thickness: 1506 um

Depletion: 200 Volts

Back Side Data

Strip	0V	DEP	Dep+30V
1	3.5E+03	6.9E+06	5.5E+04
2	3.0E+03	7.8E+06	1.5E+05
3	3.0E+03	7.3E+06	1.1E+05
4	3.0E+03	6.9E+06	1.3E+05
5	3.0E+03	5.4E+06	1.3E+05
6	3.1E+03	1.1E+06	1.3E+05
7	3.1E+03	1.0E+06	1.4E+05
8	3.1E+03	1.1E+06	1.4E+05
9	3.0E+03	1.4E+06	1.4E+05
10	2.9E+03	1.6E+06	1.5E+05
11	2.8E+03	2.0E+06	1.5E+05
12	2.8E+03	1.9E+06	1.5E+05
13	2.8E+03	1.6E+06	1.6E+05
14	2.9E+03	1.2E+06	1.6E+05
15	2.9E+03	1.0E+06	1.6E+05
16	3.0E+03	9.4E+05	1.6E+05
17	3.0E+03	9.4E+05	1.7E+05
18	3.0E+03	1.1E+06	1.7E+05
19	2.9E+03	1.4E+06	1.7E+05
20	2.8E+03	1.7E+06	1.7E+05
21	2.8E+03	2.0E+06	1.7E+05
22	2.8E+03	1.7E+06	1.8E+05
23	2.9E+03	1.5E+06	1.8E+05
24	2.9E+03	1.4E+06	1.8E+05
25	2.9E+03	1.4E+06	1.8E+05
26	2.9E+03	1.6E+06	1.8E+05
27	2.9E+03	1.6E+06	1.8E+05
28	2.9E+03	1.8E+06	1.7E+05
29	2.9E+03	1.9E+06	1.7E+05
30	3.0E+03	1.7E+06	1.7E+05
31	3.0E+03	1.7E+06	1.3E+05



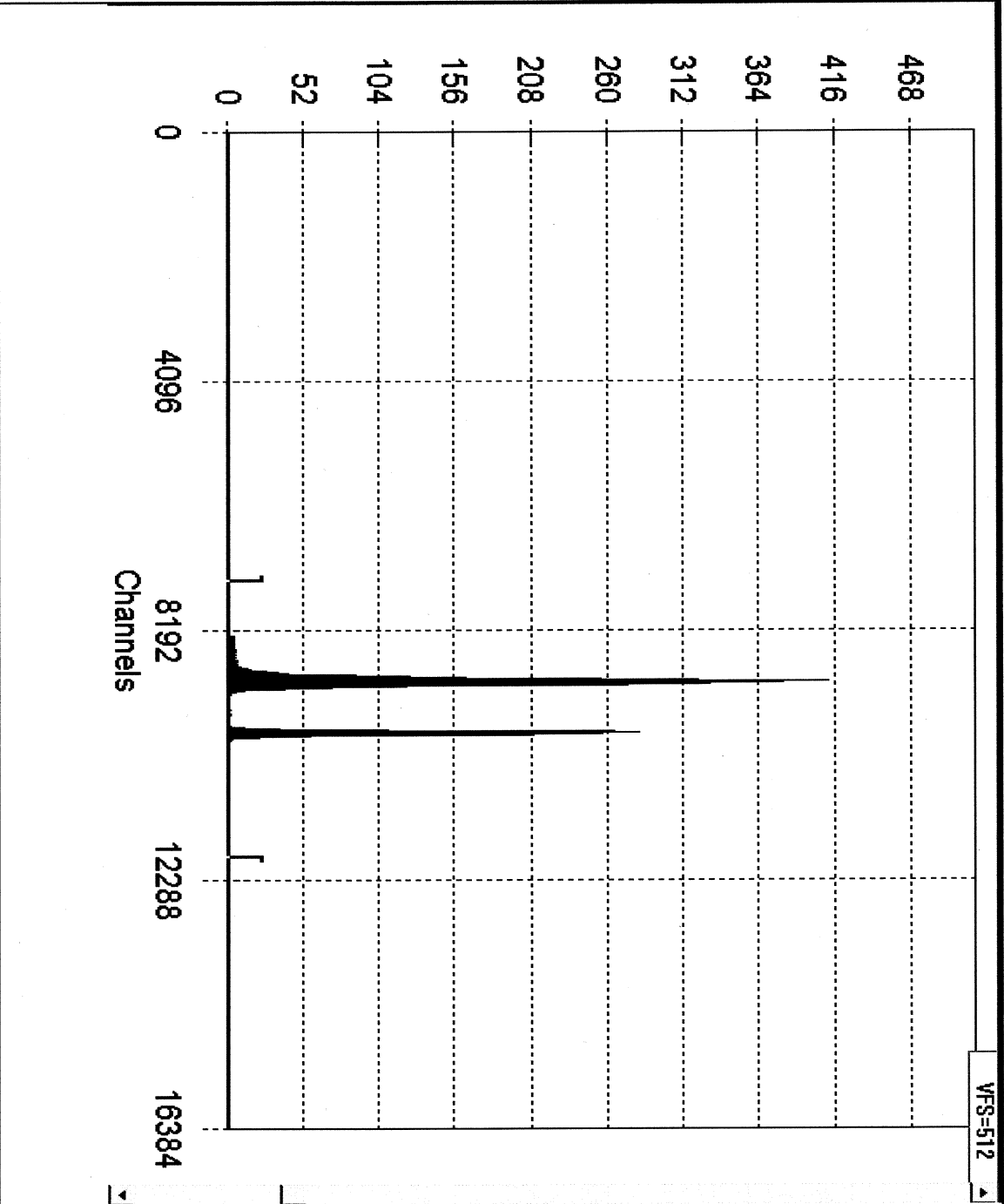
Resolution Plot

INDIANA BB7

Wafer No.: **2573-3**

Thickness: **1506** μm

VFS-512



CTION

T LINE: **69.6** KeV

STEM: **51.1** KeV

STEM: **47.2** KeV

MIC

T LINE: **70.2** KeV

STEM: **50.7** KeV

STEM: **48.6** KeV

Source
Am 241

Rise Time
1

Flat Top
0

BIAS VOLTS= **240** V Leakage **1990** nA

Si-detector Inspection Record

Date: 8-21-2007 **Time:** 3:10 PM
Tel n.: 15 **Inspected detector(s):** E front
1st inspector: VLAD HEZEL
2nd inspector: CAROL HOWEK

WIREBONDS STATUS												
dE				E-front				E-back				
strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd	
1				1		~	X	1				
2				2			X	2				
3				3			X	3				
4				4			X	4				
5				5			X	5				
6				6	~		X	6				
7				7			X	7				
8				8			X	8				
9				9	~		X	9				
10				10			X	10				
11				11			X	11				
12				12		~	X	12				
13				13			X	13				
14				14			X	14				
15				15			X	15				
16				16			X	16				
17				17			X	17				
18				18			X	18				
19				19			X	19				
20				20			X	20				
21				21			X	21				
22				22			X	22				
23				23			X	23				
24				24			X	24				
25				25			X	25				
26				26			X	26				
27				27			X	27				
28				28			X	28				
29				29			X	29				
30				30			X	30				
31				31			X	31				
32				32			X	32				

Legend:

X = bond missing / = bond broken ~ = bond damaged

Overall detector status:
 (e.g. dusty surface, scratches, dirty frame and/or cable, status of telescope can ...)
major foil needs to be changed, exchange flat head for flats
& screws

Next: detector tested in small vacuum chamber

Date: 12-8-07 Time: 5:30 AM Tel n.: 15
 Inspected detector(s): dE + EF
 Detector number(s): dE removed
 What occasion: 2260-5(dE) 2573-3 (E)
 1st inspector: Vlad HENZL
 2nd inspector: Daniela HENZLOVA

WIREBONDS STATUS												
dE				E-front				E-back				
strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd	
1				1		~	/	1				
2				2			/	2				
3				3			/	3				
4				4			/	4				
5				5			/	5				
6				6	~		/	6				
7				7			/	7				
8				8			/	8				
9				9	~		/	9				
10				10			/	10				
11				11			/	11				
12				12		~	/	12				
13				13			/	13				
14				14			/	14				
15				15			/	15				
16				16			/	16				
17	~	~	~	17			/	17				
18	~	~	~	18			/	18				
19	~	~	~	19			/	19				
20	~	~	~	20			/	20				
21				21			/	21				
22	~			22			/	22				
23				23			/	23				
24				24			/	24				
25				25			/	25				
26				26			/	26				
27	~	~	~	27			/	27				
28	~	~	~	28			/	28				
29				29			/	29				
30				30			/	30				
31				31			/	31				
32				32			/	32				

Legend:
 X = bond missing / = bond broken ~ = bond damaged

Overall detector status:
 (e.g. dusty surface, scratches, dirty frame and/or cable, status of telescope can ...)
 dE connector on inside of can damaged (tel. 15 can)
 EF - only 2 wirebonds on all strips

Si-detector Inspection Record

Date: 10/6/07 **Time:** 8 pm **Tel n.:** 15
Inspected detector(s): dE 22605 EF 2573-3
What occasion : installed DE; dE taken from Tel. 7
1st inspector: DH
2nd inspector: MK

WIREBONDS STATUS

dE				E-front				E-back			
strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd
1				1		~		1			
2				2				2			
3				3				3			
4				4				4			
5				5				5			
6				6	~			6			
7				7				7			
8				8				8			
9				9				9			
10				10				10			
11				11		~		11			
12				12		~		12			
13				13				13			
14				14				14			
15				15				15			
16				16				16			
17	~	~	~	17				17			
18	~	~	~	18				18			
19	~	~	~	19				19			
20			~	20				20			
21				21				21			
22				22				22			
23				23				23			
24				24				24			
25				25				25			
26				26				26			
27	~	~	~	27				27			
28				28				28			
29				29				29			
30				30				30			
31				31				31			
32				32				32			

Legend:

X = bond missing / = bond broken ~ = bond damaged

Overall detector status:

(e.g. dusty surface, scratches, dirty frame and/or cable, status of telescope can ...)

~~all wire bonds~~ all strips have 2 wire bonds
DE dusty surface

Front Side Data

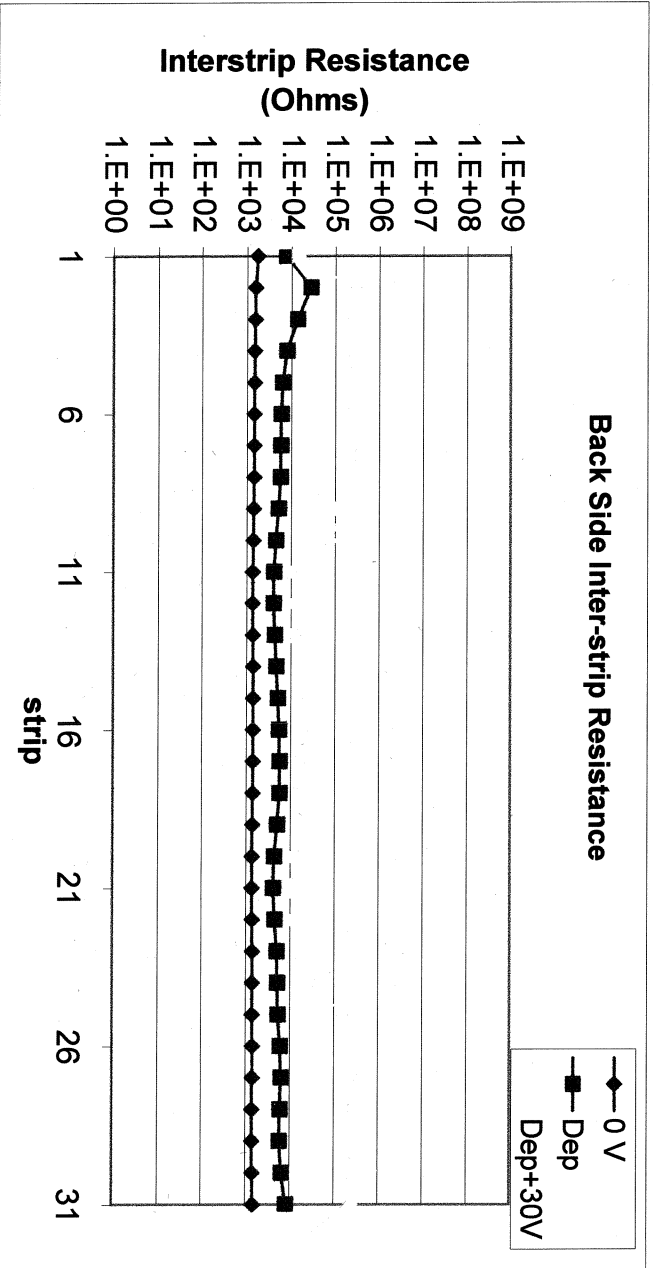
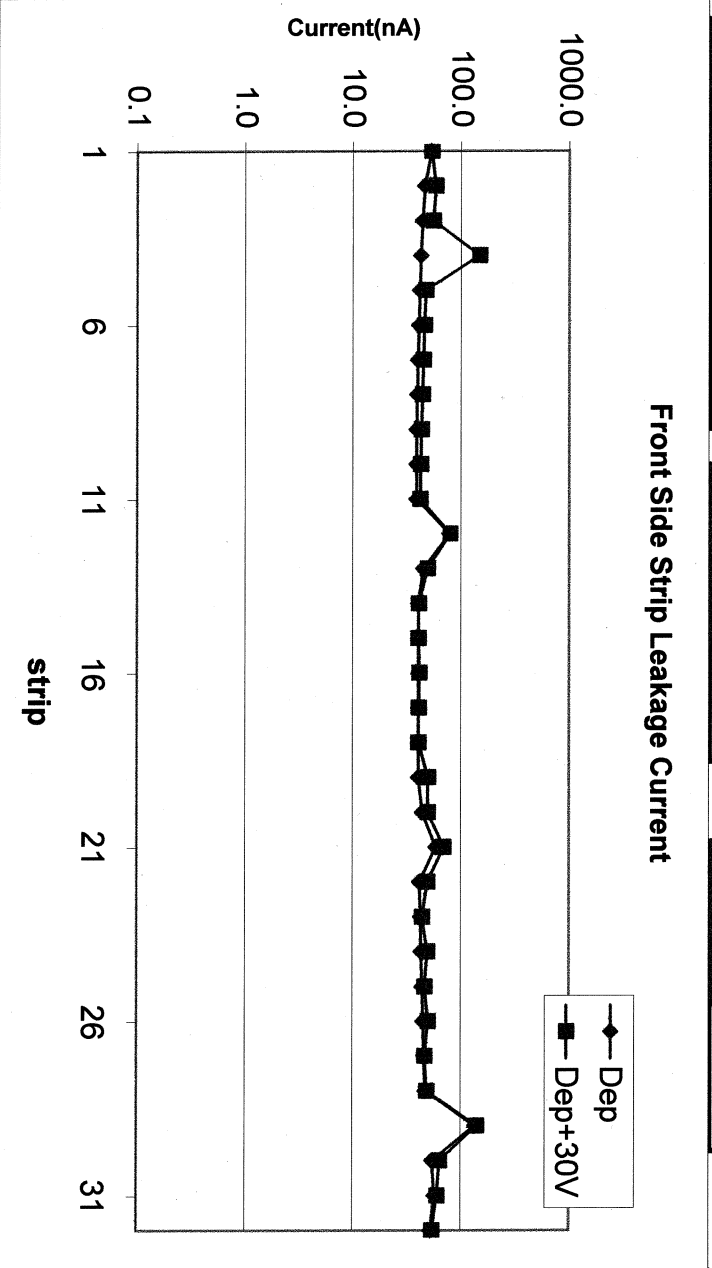
Wafer No.: 2573-2

Thickness: 1511 um

Depletion: 220 Volts

Back Side Data

Strip	Current(nA)	DEP	Dep+30V
1	52.70		53.10
2	46.00		57.90
3	44.10		54.90
4	42.40		149.80
5	41.70		47.00
6	40.80		45.90
7	40.10		44.90
8	39.40		44.00
9	39.00		43.00
10	38.90		42.50
11	39.00		41.90
12	77.70		79.10
13	44.80		49.00
14	40.60		40.80
15	40.50		40.60
16	40.80		41.40
17	40.40		40.90
18	40.40		40.60
19	40.60		49.70
20	44.10		49.50
21	58.40		69.40
22	41.60		49.00
23	42.60		44.00
24	43.00		49.00
25	44.00		46.30
26	44.80		49.80
27	45.70		46.50
28	47.20		48.30
29	135.60		142.20
30	54.10		63.40
31	56.80		59.90
32	52.60		53.90
Total	1540.40		1778.20



Strip	0V	DEP	Dep+30V
1	1.8E+03	7.6E+03	1.4E+04
2	1.6E+03	2.7E+04	2.6E+05
3	1.5E+03	1.4E+04	2.6E+05
4	1.5E+03	7.9E+03	2.3E+05
5	1.5E+03	6.3E+03	2.4E+05
6	1.5E+03	5.9E+03	2.8E+05
7	1.5E+03	5.9E+03	2.8E+05
8	1.5E+03	5.7E+03	2.7E+05
9	1.4E+03	5.2E+03	1.4E+05
10	1.4E+03	4.6E+03	8.1E+04
11	1.4E+03	4.1E+03	1.2E+04
12	1.4E+03	4.1E+03	1.1E+04
13	1.4E+03	4.3E+03	1.4E+04
14	1.4E+03	4.7E+03	1.8E+04
15	1.4E+03	5.1E+03	2.0E+04
16	1.4E+03	5.5E+03	2.0E+04
17	1.4E+03	5.7E+03	1.9E+04
18	1.4E+03	5.6E+03	1.7E+04
19	1.4E+03	5.0E+03	1.6E+04
20	1.4E+03	4.3E+03	1.2E+04
21	1.4E+03	4.1E+03	9.9E+03
22	1.4E+03	4.5E+03	1.2E+04
23	1.4E+03	5.0E+03	1.8E+04
24	1.4E+03	5.2E+03	3.1E+04
25	1.4E+03	5.3E+03	1.7E+05
26	1.4E+03	6.0E+03	2.6E+05
27	1.4E+03	6.4E+03	2.9E+05
28	1.4E+03	6.0E+03	2.7E+05
29	1.4E+03	5.8E+03	2.5E+05
30	1.4E+03	6.5E+03	2.5E+05
31	1.5E+03	8.2E+03	2.6E+05

INDIANA BB7

Wafer No.: **2573-2**

Thickness: **1511** μm

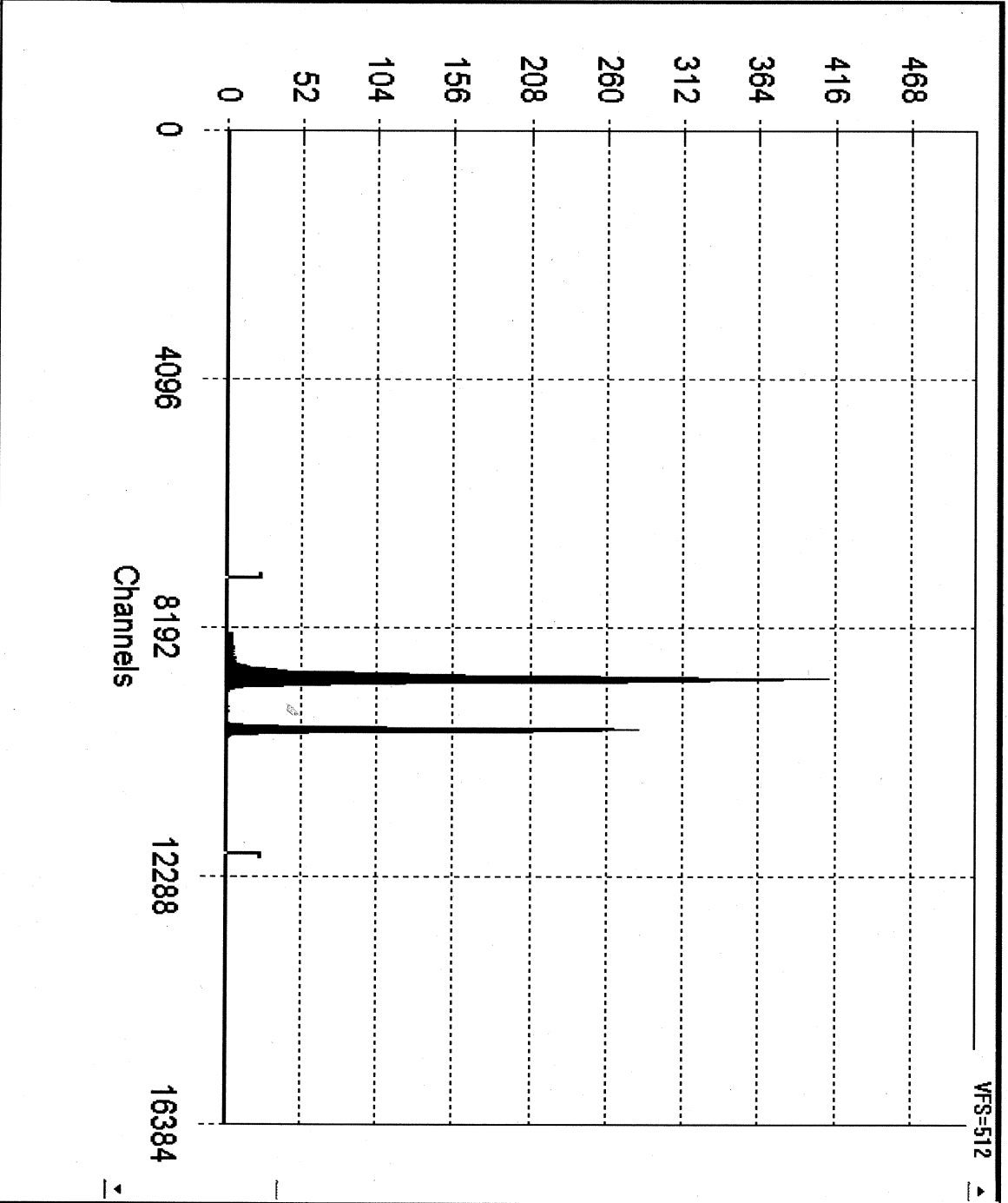
VFS-512

UNCTION

T LINE: **92.3** KeV
STEM: **67** KeV
L: **63.5** KeV

MIC

T LINE: **94.3** KeV
STEM: **66.8** KeV
LC: **66.5** KeV



Source
Am 241

Rise Time
1

Flat Top
0

BIAS VOLTS=

300 V

Leakage

1790 nA