

TOTAL IONIZING DOSE PROGRESS TEST REPORT

AD584

**Pin Programmable Precision Voltage
Reference
DC0125A
From
Analog Devices**

| | | |
|---|---|---|
| TRAD/TE/AD584SH/0125A/ESA/MV/1410 | | Labège, May 22 nd , 2015 |
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| Revision: 0 | Creation of the document | |
| Revision: 1 | Addition of table of test parameters | |
| To: ESA Mr Christian POIVEY | Project/Program: Ref: | |

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1. INTRODUCTION

This progress report describes the testing and characterization of the **AD584SH** manufactured by **Analog Devices**. Testing began on January 5, 2015 and ended on February 24, 2015.

2. PART INFORMATION

2.1. Identification

| | |
|-------------------------|--|
| Part designation | AD584SH |
| Manufacturer | Analog Devices |
| Part function | Pin Programmable Precision Voltage Reference |

2.2. Procurement information

| | |
|-------------------------------|---|
| Package | TO-99 |
| Date Code | 0125A |
| Charge No | 94579 |
| Number of tested parts | 30 irradiated samples (Biased OFF) + 1 reference sample |

3. COMMENTS

The irradiation test on **30 AD584SH**, a **Pin Programmable Precision Voltage Reference** from **Analog Devices** is using gamma rays from Cobalt 60 source, at low dose rate (210 rad(Si)/h).

For easier result visualisation, measurements and graphs have been separated per lot.

The black curve with no drift is the DUT reference (not irradiated).

After the 168h/100°C annealing step, a drift appears on most of measurements and some of those parameters become out of specification.

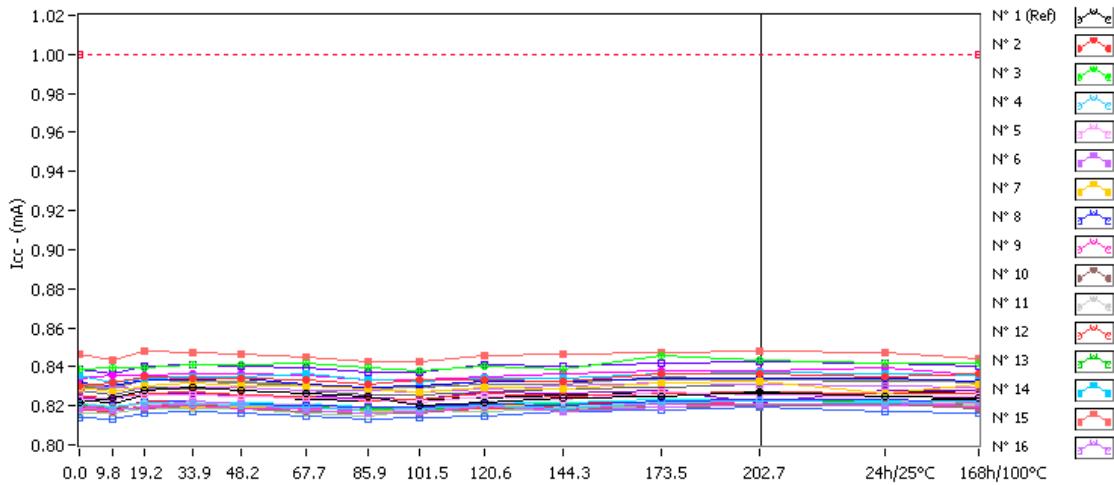
4. TEST PARAMETERS

| Parameters | Symbols | Test conditions |
|---|----------------|-----------------------|
| Ta=25°C, Vin=15V, IL=0, unless otherwise specified | | |
| Quiescent Current | ICC | Vin=38V; VO=10V |
| Output VOltagE | VOUT1 | VO=10V |
| | VOUT2 | VO=7.5V |
| | VOUT3 | VO=5.0V |
| | VOUT4 | VO=2.5V |
| Line Regulation | VRLINE1 | 12.5V<Vin<15V; VO=10V |
| | VRLINE2 | 15V<Vin<30V; VO=10V |
| Load Regulation | VRLOAD1 | 0mA<IL<5mA; VO=10V |
| | VRLOAD2 | 0mA<IL<5mA; VO=7.5V |
| | VRLOAD3 | 0mA<IL<5mA; VO=5.0V |
| | VRLOAD4 | 0mA<IL<5mA; VO=2.5V |
| Output Short Circuit Current | IOS | VO=10V |

5. APPENDIX 1 MEASURED PARAMETERS

1. Icc

Ta=25°C; Vin=38V; IL=0mA; VO=10V

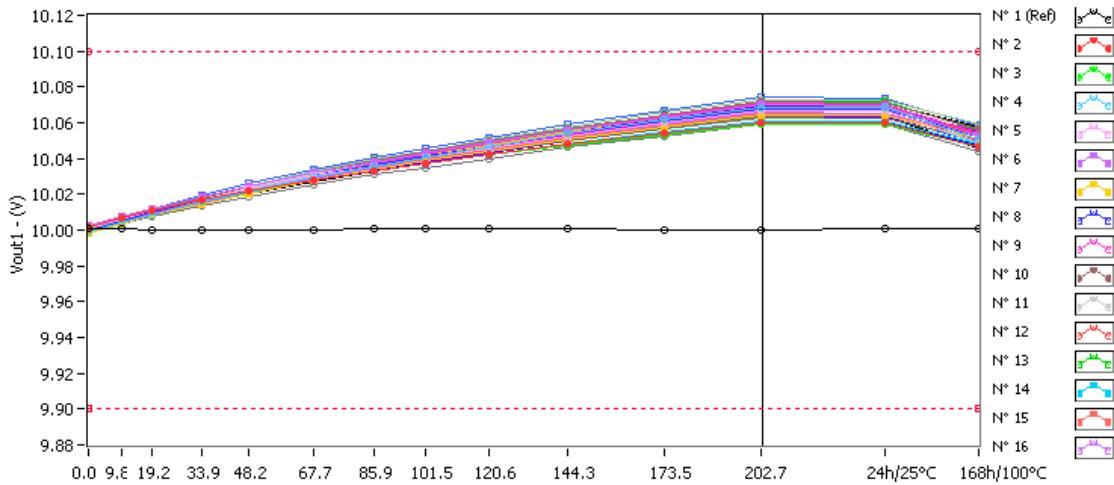


Icc . (mA) **Max = 1.0**

| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 0.8213 | 0.8243 | 0.8277 | 0.8296 | 0.8278 | 0.8260 | 0.8249 | 0.8204 | 0.8216 | 0.8237 | 0.8245 | 0.8272 | 0.8249 | 0.8239 |
| N° 2 | 0.8305 | 0.8314 | 0.8352 | 0.8340 | 0.8339 | 0.8333 | 0.8312 | 0.8331 | 0.8333 | 0.8324 | 0.8364 | 0.8366 | 0.8350 | 0.8362 |
| N° 3 | 0.8389 | 0.8393 | 0.8398 | 0.8411 | 0.8409 | 0.8416 | 0.8391 | 0.8377 | 0.8404 | 0.8385 | 0.8456 | 0.8434 | 0.8419 | 0.8422 |
| N° 4 | 0.8208 | 0.8192 | 0.8218 | 0.8206 | 0.8199 | 0.8192 | 0.8178 | 0.8185 | 0.8205 | 0.8188 | 0.8219 | 0.8225 | 0.8220 | 0.8221 |
| N° 5 | 0.8235 | 0.8237 | 0.8254 | 0.8258 | 0.8250 | 0.8241 | 0.8229 | 0.8218 | 0.8246 | 0.8230 | 0.8270 | 0.8259 | 0.8246 | 0.8251 |
| N° 6 | 0.8190 | 0.8174 | 0.8195 | 0.8228 | 0.8207 | 0.8177 | 0.8164 | 0.8171 | 0.8202 | 0.8172 | 0.8196 | 0.8210 | 0.8201 | 0.8219 |
| N° 7 | 0.8292 | 0.8273 | 0.8301 | 0.8318 | 0.8301 | 0.8304 | 0.8283 | 0.8270 | 0.8296 | 0.8286 | 0.8321 | 0.8323 | 0.8262 | 0.8306 |
| N° 8 | 0.8212 | 0.8195 | 0.8217 | 0.8223 | 0.8213 | 0.8204 | 0.8197 | 0.8193 | 0.8206 | 0.8201 | 0.8222 | 0.8232 | 0.8233 | 0.8216 |
| N° 9 | 0.8200 | 0.8177 | 0.8194 | 0.8204 | 0.8189 | 0.8189 | 0.8176 | 0.8170 | 0.8194 | 0.8187 | 0.8209 | 0.8225 | 0.8218 | 0.8197 |
| N° 10 | 0.8182 | 0.8197 | 0.8183 | 0.8198 | 0.8187 | 0.8169 | 0.8163 | 0.8161 | 0.8195 | 0.8175 | 0.8193 | 0.8200 | 0.8210 | 0.8184 |
| N° 11 | 0.8213 | 0.8196 | 0.8207 | 0.8218 | 0.8211 | 0.8205 | 0.8179 | 0.8181 | 0.8224 | 0.8195 | 0.8218 | 0.8234 | 0.8236 | 0.8208 |
| N° 12 | 0.8249 | 0.8241 | 0.8262 | 0.8275 | 0.8255 | 0.8247 | 0.8226 | 0.8233 | 0.8263 | 0.8251 | 0.8266 | 0.8275 | 0.8263 | 0.8260 |
| N° 13 | 0.8203 | 0.8183 | 0.8221 | 0.8224 | 0.8210 | 0.8205 | 0.8186 | 0.8176 | 0.8206 | 0.8206 | 0.8214 | 0.8231 | 0.8218 | 0.8209 |
| N° 14 | 0.8356 | 0.8321 | 0.8341 | 0.8348 | 0.8347 | 0.8366 | 0.8330 | 0.8324 | 0.8339 | 0.8341 | 0.8366 | 0.8370 | 0.8362 | 0.8353 |
| N° 15 | 0.8461 | 0.8435 | 0.8481 | 0.8472 | 0.8461 | 0.8450 | 0.8429 | 0.8424 | 0.8455 | 0.8465 | 0.8475 | 0.8483 | 0.8470 | 0.8442 |
| N° 16 | 0.8287 | 0.8292 | 0.8287 | 0.8293 | 0.8294 | 0.8278 | 0.8281 | 0.8270 | 0.8287 | 0.8300 | 0.8314 | 0.8311 | 0.8305 | 0.8291 |
| N° 17 | 0.8182 | 0.8176 | 0.8192 | 0.8197 | 0.8197 | 0.8201 | 0.8171 | 0.8169 | 0.8202 | 0.8201 | 0.8210 | 0.8221 | 0.8215 | 0.8194 |
| N° 18 | 0.8343 | 0.8358 | 0.8360 | 0.8365 | 0.8363 | 0.8360 | 0.8334 | 0.8335 | 0.8352 | 0.8364 | 0.8377 | 0.8377 | 0.8395 | 0.8357 |
| N° 19 | 0.8243 | 0.8233 | 0.8264 | 0.8260 | 0.8257 | 0.8249 | 0.8244 | 0.8229 | 0.8270 | 0.8265 | 0.8277 | 0.8216 | 0.8276 | 0.8278 |
| N° 20 | 0.8163 | 0.8160 | 0.8186 | 0.8184 | 0.8183 | 0.8164 | 0.8150 | 0.8180 | 0.8169 | 0.8182 | 0.8196 | 0.8198 | 0.8202 | 0.8200 |
| N° 21 | 0.8205 | 0.8188 | 0.8217 | 0.8218 | 0.8220 | 0.8209 | 0.8191 | 0.8188 | 0.8219 | 0.8217 | 0.8229 | 0.8230 | 0.8222 | 0.8227 |
| N° 22 | 0.8181 | 0.8167 | 0.8200 | 0.8203 | 0.8203 | 0.8182 | 0.8176 | 0.8174 | 0.8187 | 0.8193 | 0.8208 | 0.8212 | 0.8211 | 0.8203 |
| N° 23 | 0.8279 | 0.8253 | 0.8295 | 0.8288 | 0.8291 | 0.8276 | 0.8259 | 0.8259 | 0.8273 | 0.8284 | 0.8293 | 0.8312 | 0.8300 | 0.8293 |
| N° 24 | 0.8142 | 0.8135 | 0.8165 | 0.8170 | 0.8165 | 0.8146 | 0.8131 | 0.8137 | 0.8149 | 0.8168 | 0.8178 | 0.8191 | 0.8173 | 0.8166 |
| N° 25 | 0.8193 | 0.8180 | 0.8223 | 0.8218 | 0.8213 | 0.8210 | 0.8191 | 0.8180 | 0.8203 | 0.8218 | 0.8221 | 0.8228 | 0.8219 | 0.8213 |
| N° 26 | 0.8315 | 0.8300 | 0.8332 | 0.8335 | 0.8340 | 0.8310 | 0.8291 | 0.8304 | 0.8322 | 0.8322 | 0.8339 | 0.8339 | 0.8342 | 0.8326 |
| N° 27 | 0.8307 | 0.8293 | 0.8335 | 0.8323 | 0.8328 | 0.8311 | 0.8286 | 0.8296 | 0.8325 | 0.8324 | 0.8333 | 0.8335 | 0.8332 | 0.8319 |
| N° 28 | 0.8295 | 0.8283 | 0.8331 | 0.8323 | 0.8319 | 0.8302 | 0.8291 | 0.8295 | 0.8311 | 0.8311 | 0.8346 | 0.8331 | 0.8325 | 0.8325 |
| N° 29 | 0.8389 | 0.8363 | 0.8405 | 0.8410 | 0.8404 | 0.8397 | 0.8370 | 0.8370 | 0.8407 | 0.8405 | 0.8421 | 0.8425 | 0.8417 | 0.8404 |
| N° 30 | 0.8238 | 0.8206 | 0.8259 | 0.8252 | 0.8259 | 0.8235 | 0.8225 | 0.8230 | 0.8242 | 0.8254 | 0.8263 | 0.8263 | 0.8261 | 0.8283 |
| N° 31 | 0.8198 | 0.8180 | 0.8222 | 0.8213 | 0.8219 | 0.8206 | 0.8185 | 0.8185 | 0.8207 | 0.8207 | 0.8220 | 0.8233 | 0.8226 | 0.8231 |

2. Vout1

Ta=25°C; Vin=15V; IL=0mA; VO=10V

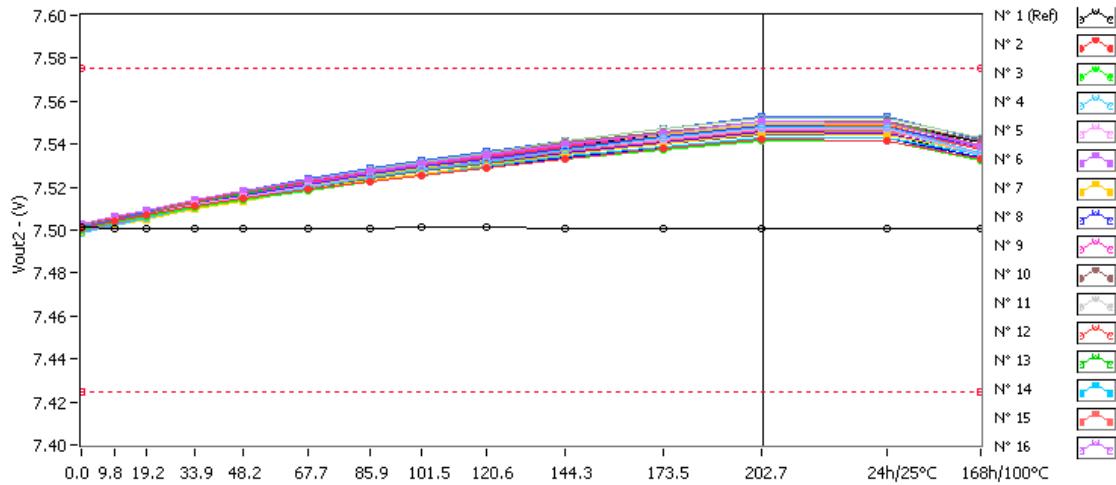


Vout1 . (V) Min = 9.9 Max = 10.1

| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 10.00086 | 10.00053 | 10.00014 | 9.99993 | 10.00012 | 10.00032 | 10.00046 | 10.00060 | 10.00081 | 10.00056 | 10.00041 | 10.00019 | 10.00044 | 10.00052 |
| N° 2 | 10.00151 | 10.00658 | 10.01058 | 10.01669 | 10.02182 | 10.02795 | 10.03338 | 10.03706 | 10.04208 | 10.04815 | 10.05428 | 10.06008 | 10.05978 | 10.04690 |
| N° 3 | 10.00183 | 10.00637 | 10.01063 | 10.01649 | 10.02155 | 10.02767 | 10.03301 | 10.03719 | 10.04184 | 10.04768 | 10.05357 | 10.05950 | 10.05929 | 10.04645 |
| N° 4 | 9.99948 | 10.00413 | 10.00874 | 10.01584 | 10.02196 | 10.02948 | 10.03587 | 10.04072 | 10.04653 | 10.05391 | 10.06158 | 10.06865 | 10.06819 | 10.05032 |
| N° 5 | 10.00172 | 10.00621 | 10.01068 | 10.01728 | 10.02301 | 10.03002 | 10.03588 | 10.04037 | 10.04582 | 10.05278 | 10.05978 | 10.06663 | 10.06634 | 10.04871 |
| N° 6 | 10.00258 | 10.00742 | 10.01198 | 10.01860 | 10.02484 | 10.03197 | 10.03837 | 10.04319 | 10.04871 | 10.05593 | 10.06266 | 10.06991 | 10.06957 | 10.05273 |
| N° 7 | 9.99864 | 10.00364 | 10.00804 | 10.01470 | 10.02068 | 10.02783 | 10.03390 | 10.03855 | 10.04391 | 10.05070 | 10.05777 | 10.06421 | 10.06388 | 10.05105 |
| N° 8 | 10.00039 | 10.00522 | 10.00979 | 10.01673 | 10.02276 | 10.03023 | 10.03630 | 10.04123 | 10.04641 | 10.05380 | 10.06115 | 10.06791 | 10.06742 | 10.05269 |
| N° 9 | 9.99995 | 10.00471 | 10.00944 | 10.01660 | 10.02302 | 10.03081 | 10.03723 | 10.04235 | 10.04819 | 10.05566 | 10.06350 | 10.07062 | 10.07021 | 10.05427 |
| N° 10 | 10.00023 | 10.00529 | 10.01059 | 10.01790 | 10.02444 | 10.03237 | 10.03885 | 10.04376 | 10.04952 | 10.05690 | 10.06448 | 10.07145 | 10.07086 | 10.05686 |
| N° 11 | 10.00044 | 10.00563 | 10.01040 | 10.01749 | 10.02377 | 10.03142 | 10.03793 | 10.04296 | 10.04867 | 10.05621 | 10.06390 | 10.07098 | 10.07048 | 10.05381 |
| N° 12 | 10.00196 | 10.00649 | 10.01101 | 10.01770 | 10.02344 | 10.03035 | 10.03623 | 10.04071 | 10.04579 | 10.05279 | 10.06016 | 10.06667 | 10.06639 | 10.04956 |
| N° 13 | 10.00141 | 10.00623 | 10.01088 | 10.01806 | 10.02445 | 10.03210 | 10.03854 | 10.04350 | 10.04936 | 10.05672 | 10.06460 | 10.07176 | 10.07150 | 10.05540 |
| N° 14 | 10.00058 | 10.00556 | 10.00986 | 10.01604 | 10.02131 | 10.02760 | 10.03327 | 10.03750 | 10.04255 | 10.04855 | 10.05510 | 10.06105 | 10.06068 | 10.04853 |
| N° 15 | 10.00094 | 10.00605 | 10.01040 | 10.01695 | 10.02257 | 10.02936 | 10.03509 | 10.03949 | 10.04478 | 10.05122 | 10.05839 | 10.06491 | 10.06458 | 10.05229 |
| N° 16 | 9.99845 | 10.00344 | 10.00836 | 10.01527 | 10.02116 | 10.02856 | 10.03453 | 10.03934 | 10.04501 | 10.05173 | 10.05897 | 10.06578 | 10.06544 | 10.05365 |
| N° 17 | 9.99958 | 10.00428 | 10.00905 | 10.01622 | 10.02252 | 10.03003 | 10.03674 | 10.04182 | 10.04773 | 10.05515 | 10.06310 | 10.07043 | 10.06992 | 10.05442 |
| N° 18 | 10.00135 | 10.00621 | 10.01098 | 10.01764 | 10.02339 | 10.03041 | 10.03648 | 10.04114 | 10.04666 | 10.05335 | 10.06075 | 10.06766 | 10.06699 | 10.05540 |
| N° 19 | 9.99953 | 10.00493 | 10.00968 | 10.01695 | 10.02315 | 10.03075 | 10.03709 | 10.04204 | 10.04757 | 10.05475 | 10.06232 | 10.06902 | 10.06847 | 10.05519 |
| N° 20 | 9.99969 | 10.00521 | 10.01022 | 10.01790 | 10.02445 | 10.03265 | 10.03938 | 10.04404 | 10.05039 | 10.05788 | 10.06571 | 10.07298 | 10.07246 | 10.05924 |
| N° 21 | 10.00120 | 10.00580 | 10.01026 | 10.01708 | 10.02286 | 10.03001 | 10.03596 | 10.04053 | 10.04597 | 10.05277 | 10.06018 | 10.06667 | 10.04808 | |
| N° 22 | 10.00174 | 10.00638 | 10.01089 | 10.01792 | 10.02391 | 10.03162 | 10.03798 | 10.04274 | 10.04861 | 10.05555 | 10.06303 | 10.07009 | 10.06968 | 10.05344 |
| N° 23 | 10.00110 | 10.00576 | 10.00992 | 10.01639 | 10.02180 | 10.02864 | 10.03442 | 10.03878 | 10.04396 | 10.05009 | 10.05686 | 10.06306 | 10.06281 | 10.04947 |
| N° 24 | 10.00202 | 10.00716 | 10.01202 | 10.01954 | 10.02604 | 10.03418 | 10.04090 | 10.04595 | 10.05192 | 10.05906 | 10.06689 | 10.07428 | 10.07381 | 10.05836 |
| N° 25 | 10.00084 | 10.00555 | 10.00991 | 10.01678 | 10.02267 | 10.02987 | 10.03594 | 10.04060 | 10.04615 | 10.05294 | 10.06052 | 10.06746 | 10.06706 | 10.04974 |
| N° 26 | 10.00131 | 10.00636 | 10.01051 | 10.01664 | 10.02175 | 10.02825 | 10.03361 | 10.03756 | 10.04248 | 10.04851 | 10.05492 | 10.06086 | 10.06048 | 10.04743 |
| N° 27 | 10.00071 | 10.00575 | 10.00989 | 10.01655 | 10.02200 | 10.02885 | 10.03470 | 10.03886 | 10.04381 | 10.05010 | 10.05686 | 10.06291 | 10.06250 | 10.04967 |
| N° 28 | 9.99924 | 10.00368 | 10.00741 | 10.01370 | 10.01897 | 10.02541 | 10.03091 | 10.03492 | 10.03992 | 10.04621 | 10.05269 | 10.05927 | 10.05890 | 10.04362 |
| N° 29 | 9.99961 | 10.00465 | 10.00893 | 10.01538 | 10.02104 | 10.02778 | 10.03373 | 10.03816 | 10.04333 | 10.04994 | 10.05719 | 10.06381 | 10.06339 | 10.04940 |
| N° 30 | 9.99927 | 10.00393 | 10.00807 | 10.01471 | 10.02030 | 10.02739 | 10.03313 | 10.03764 | 10.04312 | 10.04980 | 10.05712 | 10.06381 | 10.06339 | 10.04523 |
| N° 31 | 9.99982 | 10.00527 | 10.00998 | 10.01751 | 10.02377 | 10.03155 | 10.03818 | 10.04317 | 10.04904 | 10.05624 | 10.06420 | 10.07125 | 10.07088 | 10.05724 |

3. Vout2

Ta=25°C; Vin=15V; IL=0mA; VO=7.5V

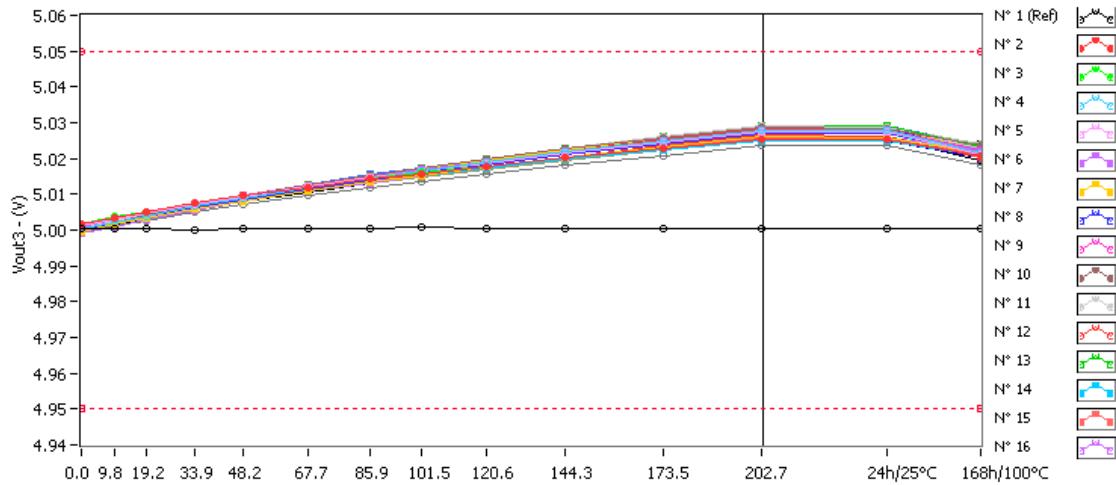


Vout2 . (V) Min = 7.425 Max = 7.575

| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C | 168h/100°C |
|------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------|------------|
| N° 1 (Ref) | 7.50120 | 7.50095 | 7.50067 | 7.50055 | 7.50066 | 7.50082 | 7.50102 | 7.50112 | 7.50117 | 7.50098 | 7.50087 | 7.50072 | 7.50090 | 7.50094 |
| N° 2 | 7.50042 | 7.50395 | 7.50672 | 7.51100 | 7.51460 | 7.51893 | 7.52280 | 7.52541 | 7.52901 | 7.53340 | 7.53786 | 7.54210 | 7.54183 | 7.53324 |
| N° 3 | 7.50035 | 7.50352 | 7.50648 | 7.51058 | 7.51415 | 7.51847 | 7.52229 | 7.52524 | 7.52858 | 7.53282 | 7.53712 | 7.54141 | 7.54132 | 7.53270 |
| N° 4 | 7.49893 | 7.50214 | 7.50535 | 7.51029 | 7.51458 | 7.51989 | 7.52440 | 7.52786 | 7.53199 | 7.53727 | 7.54286 | 7.54800 | 7.54768 | 7.53569 |
| N° 5 | 7.50081 | 7.50394 | 7.50705 | 7.51166 | 7.51568 | 7.52065 | 7.52484 | 7.52801 | 7.53199 | 7.53701 | 7.54214 | 7.54720 | 7.54699 | 7.53508 |
| N° 6 | 7.50271 | 7.50605 | 7.50923 | 7.51384 | 7.51825 | 7.52326 | 7.52779 | 7.53121 | 7.53517 | 7.54036 | 7.54524 | 7.55050 | 7.55027 | 7.53900 |
| N° 7 | 7.49835 | 7.50180 | 7.50486 | 7.50952 | 7.51371 | 7.51874 | 7.52306 | 7.52635 | 7.53019 | 7.53501 | 7.54014 | 7.54485 | 7.54466 | 7.53618 |
| N° 8 | 7.50061 | 7.50395 | 7.50714 | 7.51198 | 7.51619 | 7.52147 | 7.52580 | 7.52928 | 7.53296 | 7.53824 | 7.54356 | 7.54848 | 7.54816 | 7.53840 |
| N° 9 | 7.50036 | 7.50366 | 7.50694 | 7.51194 | 7.51644 | 7.52191 | 7.52647 | 7.53010 | 7.53426 | 7.53961 | 7.54529 | 7.55049 | 7.55023 | 7.53959 |
| N° 10 | 7.50056 | 7.50407 | 7.50774 | 7.51285 | 7.51742 | 7.52302 | 7.52760 | 7.53110 | 7.53521 | 7.54050 | 7.54598 | 7.55103 | 7.55065 | 7.54136 |
| N° 11 | 7.50029 | 7.50389 | 7.50720 | 7.51213 | 7.51654 | 7.52192 | 7.52653 | 7.53010 | 7.53418 | 7.53959 | 7.54518 | 7.55035 | 7.55000 | 7.53878 |
| N° 12 | 7.50259 | 7.50573 | 7.50888 | 7.51355 | 7.51758 | 7.52248 | 7.52665 | 7.52985 | 7.53352 | 7.53854 | 7.54395 | 7.54874 | 7.54855 | 7.53720 |
| N° 13 | 7.50076 | 7.50410 | 7.50733 | 7.51234 | 7.51681 | 7.52219 | 7.52676 | 7.53025 | 7.53445 | 7.53972 | 7.54539 | 7.55061 | 7.55044 | 7.53972 |
| N° 14 | 7.50030 | 7.50376 | 7.50675 | 7.51107 | 7.51478 | 7.51924 | 7.52324 | 7.52628 | 7.52992 | 7.53420 | 7.53896 | 7.54329 | 7.54300 | 7.53504 |
| N° 15 | 7.50091 | 7.50444 | 7.50747 | 7.51205 | 7.51597 | 7.52077 | 7.52480 | 7.52796 | 7.53174 | 7.53635 | 7.54155 | 7.54627 | 7.54608 | 7.53831 |
| N° 16 | 7.49948 | 7.50294 | 7.50635 | 7.51117 | 7.51532 | 7.52053 | 7.52476 | 7.52817 | 7.53224 | 7.53704 | 7.54229 | 7.54723 | 7.54703 | 7.53818 |
| N° 17 | 7.49916 | 7.50241 | 7.50573 | 7.51072 | 7.51515 | 7.52040 | 7.52516 | 7.52879 | 7.53298 | 7.53833 | 7.54404 | 7.54942 | 7.54904 | 7.53915 |
| N° 18 | 7.50092 | 7.50429 | 7.50759 | 7.51225 | 7.51628 | 7.52122 | 7.52549 | 7.52882 | 7.53273 | 7.53753 | 7.54289 | 7.54786 | 7.54745 | 7.53921 |
| N° 19 | 7.49901 | 7.50275 | 7.50605 | 7.51109 | 7.51546 | 7.52080 | 7.52530 | 7.52882 | 7.53275 | 7.53787 | 7.54335 | 7.54822 | 7.54780 | 7.53908 |
| N° 20 | 7.50039 | 7.50421 | 7.50768 | 7.51301 | 7.51760 | 7.52338 | 7.52813 | 7.53141 | 7.53594 | 7.54128 | 7.54690 | 7.55214 | 7.55185 | 7.54307 |
| N° 21 | 7.50061 | 7.50380 | 7.50691 | 7.51167 | 7.51575 | 7.52077 | 7.52501 | 7.52825 | 7.53220 | 7.53710 | 7.54254 | 7.54760 | 7.54723 | 7.53477 |
| N° 22 | 7.50049 | 7.50371 | 7.50685 | 7.51174 | 7.51595 | 7.52139 | 7.52589 | 7.52924 | 7.53347 | 7.53844 | 7.54387 | 7.54900 | 7.54873 | 7.53789 |
| N° 23 | 7.50072 | 7.50394 | 7.50684 | 7.51135 | 7.51514 | 7.51999 | 7.52408 | 7.52716 | 7.53088 | 7.53531 | 7.54021 | 7.54457 | 7.54455 | 7.53569 |
| N° 24 | 7.50159 | 7.50513 | 7.50851 | 7.51375 | 7.51831 | 7.52403 | 7.52881 | 7.53237 | 7.53663 | 7.54174 | 7.54744 | 7.55279 | 7.55246 | 7.54217 |
| N° 25 | 7.50165 | 7.50491 | 7.50796 | 7.51273 | 7.51687 | 7.52196 | 7.52627 | 7.52957 | 7.53357 | 7.53846 | 7.54395 | 7.54902 | 7.54875 | 7.53710 |
| N° 26 | 7.50076 | 7.50426 | 7.50716 | 7.51144 | 7.51503 | 7.51963 | 7.52343 | 7.52626 | 7.52979 | 7.53413 | 7.53882 | 7.54315 | 7.54291 | 7.53411 |
| N° 27 | 7.50220 | 7.50570 | 7.50859 | 7.51325 | 7.51708 | 7.52191 | 7.52609 | 7.52903 | 7.53260 | 7.53716 | 7.54204 | 7.54650 | 7.54620 | 7.53768 |
| N° 28 | 7.50049 | 7.50357 | 7.50618 | 7.51058 | 7.51429 | 7.51883 | 7.52277 | 7.52561 | 7.52921 | 7.53371 | 7.53845 | 7.54326 | 7.54298 | 7.53270 |
| N° 29 | 7.50011 | 7.50359 | 7.50659 | 7.51110 | 7.51504 | 7.51981 | 7.52401 | 7.52715 | 7.53085 | 7.53562 | 7.54083 | 7.54565 | 7.54537 | 7.53598 |
| N° 30 | 7.49938 | 7.50262 | 7.50551 | 7.51015 | 7.51408 | 7.51908 | 7.52318 | 7.52640 | 7.53035 | 7.53517 | 7.54053 | 7.54544 | 7.54520 | 7.53294 |
| N° 31 | 7.49943 | 7.50320 | 7.50648 | 7.51171 | 7.51610 | 7.52159 | 7.52628 | 7.52978 | 7.53397 | 7.53908 | 7.54486 | 7.55000 | 7.54975 | 7.54072 |

4. Vout3

Ta=25°C; Vin=15V; IL=0mA; VO=5.0V

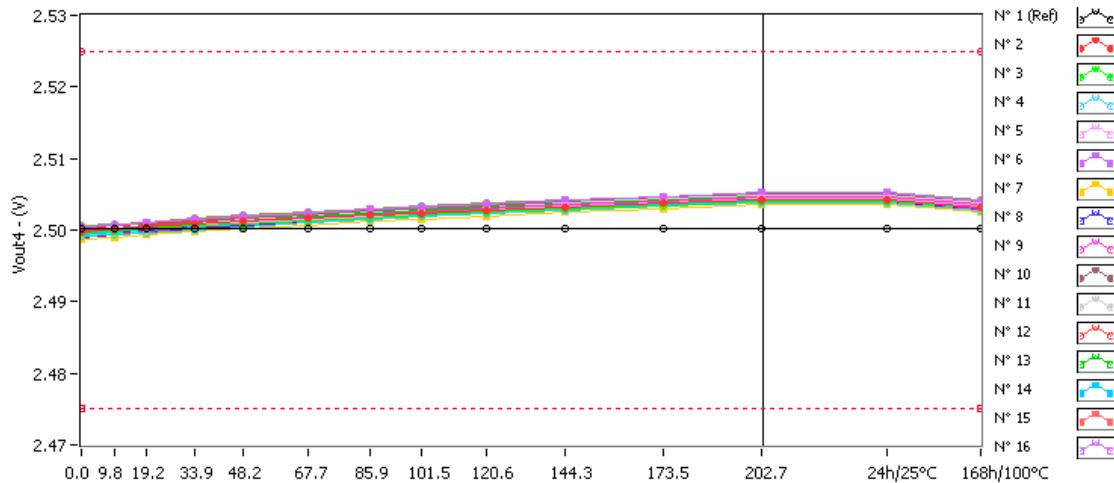


Vout3 . (V) Min = 4.95 Max = 5.05

| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C | 168h/100°C |
|------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------|------------|
| N° 1 (Ref) | 5.00059 | 5.00044 | 5.00027 | 5.00020 | 5.00027 | 5.00038 | 5.00057 | 5.00063 | 5.00058 | 5.00046 | 5.00042 | 5.00031 | 5.00042 | 5.00046 |
| N° 2 | 5.00164 | 5.00359 | 5.00512 | 5.00751 | 5.00953 | 5.01199 | 5.01417 | 5.01568 | 5.01775 | 5.02026 | 5.02283 | 5.02535 | 5.02531 | 5.02057 |
| N° 3 | 5.00188 | 5.00363 | 5.00528 | 5.00755 | 5.00956 | 5.01201 | 5.01417 | 5.01587 | 5.01780 | 5.02022 | 5.02276 | 5.02531 | 5.02523 | 5.02058 |
| N° 4 | 5.00028 | 5.00204 | 5.00382 | 5.00656 | 5.00895 | 5.01194 | 5.01448 | 5.01644 | 5.01882 | 5.02179 | 5.02498 | 5.02793 | 5.02777 | 5.02144 |
| N° 5 | 5.00116 | 5.00288 | 5.00461 | 5.00718 | 5.00942 | 5.01223 | 5.01459 | 5.01642 | 5.01870 | 5.02159 | 5.02458 | 5.02754 | 5.02743 | 5.02103 |
| N° 6 | 5.00092 | 5.00276 | 5.00452 | 5.00710 | 5.00956 | 5.01241 | 5.01494 | 5.01686 | 5.01918 | 5.02210 | 5.02489 | 5.02797 | 5.02785 | 5.02180 |
| N° 7 | 4.99965 | 5.00157 | 5.00325 | 5.00583 | 5.00818 | 5.01105 | 5.01348 | 5.01535 | 5.01754 | 5.02034 | 5.02326 | 5.02601 | 5.02588 | 5.02141 |
| N° 8 | 4.99995 | 5.00178 | 5.00355 | 5.00624 | 5.00863 | 5.01157 | 5.01402 | 5.01599 | 5.01833 | 5.02116 | 5.02423 | 5.02707 | 5.02691 | 5.02162 |
| N° 9 | 4.99981 | 5.00162 | 5.00343 | 5.00619 | 5.00870 | 5.01178 | 5.01436 | 5.01642 | 5.01877 | 5.02181 | 5.02506 | 5.02806 | 5.02790 | 5.02226 |
| N° 10 | 5.00026 | 5.00220 | 5.00422 | 5.00706 | 5.00962 | 5.01277 | 5.01535 | 5.01734 | 5.01965 | 5.02268 | 5.02581 | 5.02872 | 5.02851 | 5.02359 |
| N° 11 | 5.00077 | 5.00273 | 5.00456 | 5.00731 | 5.00976 | 5.01279 | 5.01540 | 5.01742 | 5.01974 | 5.02281 | 5.02602 | 5.02898 | 5.02881 | 5.02286 |
| N° 12 | 5.00028 | 5.00199 | 5.00375 | 5.00635 | 5.00859 | 5.01134 | 5.01368 | 5.01552 | 5.01761 | 5.02049 | 5.02363 | 5.02643 | 5.02632 | 5.02028 |
| N° 13 | 5.00090 | 5.00270 | 5.00452 | 5.00731 | 5.00981 | 5.01283 | 5.01539 | 5.01743 | 5.01976 | 5.02278 | 5.02609 | 5.02907 | 5.02895 | 5.02323 |
| N° 14 | 5.00049 | 5.00241 | 5.00407 | 5.00648 | 5.00856 | 5.01108 | 5.01336 | 5.01509 | 5.01717 | 5.01968 | 5.02245 | 5.02502 | 5.02492 | 5.02059 |
| N° 15 | 5.00035 | 5.00230 | 5.00397 | 5.00652 | 5.00870 | 5.01138 | 5.01365 | 5.01544 | 5.01759 | 5.02026 | 5.02320 | 5.02593 | 5.02582 | 5.02131 |
| N° 16 | 4.99905 | 5.00097 | 5.00285 | 5.00554 | 5.00786 | 5.01080 | 5.01318 | 5.01512 | 5.01743 | 5.02016 | 5.02315 | 5.02602 | 5.02590 | 5.02273 |
| N° 17 | 5.00038 | 5.00216 | 5.00399 | 5.00675 | 5.00922 | 5.01223 | 5.01486 | 5.01693 | 5.01931 | 5.02237 | 5.02567 | 5.02873 | 5.02857 | 5.02246 |
| N° 18 | 5.00060 | 5.00246 | 5.00427 | 5.00686 | 5.00910 | 5.01189 | 5.01431 | 5.01619 | 5.01842 | 5.02114 | 5.02423 | 5.02707 | 5.02683 | 5.02320 |
| N° 19 | 5.00018 | 5.00226 | 5.00407 | 5.00688 | 5.00932 | 5.01233 | 5.01487 | 5.01686 | 5.01910 | 5.02201 | 5.02513 | 5.02798 | 5.02784 | 5.02313 |
| N° 20 | 4.99984 | 5.00196 | 5.00387 | 5.00685 | 5.00942 | 5.01267 | 5.01537 | 5.01727 | 5.01981 | 5.02281 | 5.02604 | 5.02904 | 5.02886 | 5.02416 |
| N° 21 | 5.00065 | 5.00241 | 5.00415 | 5.00680 | 5.00908 | 5.01191 | 5.01432 | 5.01621 | 5.01843 | 5.02125 | 5.02442 | 5.02732 | 5.02718 | 5.02055 |
| N° 22 | 5.00111 | 5.00288 | 5.00460 | 5.00733 | 5.00968 | 5.01274 | 5.01530 | 5.01721 | 5.01959 | 5.02242 | 5.02553 | 5.02848 | 5.02834 | 5.02257 |
| N° 23 | 5.00075 | 5.00253 | 5.00413 | 5.00663 | 5.00877 | 5.01150 | 5.01382 | 5.01561 | 5.01773 | 5.02024 | 5.02309 | 5.02574 | 5.02564 | 5.02087 |
| N° 24 | 5.00035 | 5.00230 | 5.00417 | 5.00708 | 5.00962 | 5.01283 | 5.01553 | 5.01753 | 5.01997 | 5.02287 | 5.02611 | 5.02918 | 5.02900 | 5.02355 |
| N° 25 | 5.00025 | 5.00205 | 5.00373 | 5.00637 | 5.00868 | 5.01156 | 5.01401 | 5.01586 | 5.01814 | 5.02095 | 5.02409 | 5.02700 | 5.02687 | 5.02067 |
| N° 26 | 5.00101 | 5.00294 | 5.00454 | 5.00692 | 5.00894 | 5.01153 | 5.01371 | 5.01531 | 5.01732 | 5.01981 | 5.02252 | 5.02507 | 5.02493 | 5.02022 |
| N° 27 | 4.99979 | 5.00173 | 5.00333 | 5.00593 | 5.00807 | 5.01081 | 5.01319 | 5.01485 | 5.01690 | 5.01950 | 5.02231 | 5.02490 | 5.02473 | 5.02025 |
| N° 28 | 4.99942 | 5.00114 | 5.00259 | 5.00504 | 5.00712 | 5.00970 | 5.01192 | 5.01355 | 5.01558 | 5.01816 | 5.02090 | 5.02367 | 5.02356 | 5.01805 |
| N° 29 | 4.99990 | 5.00183 | 5.00349 | 5.00599 | 5.00820 | 5.01086 | 5.01324 | 5.01501 | 5.01710 | 5.01982 | 5.02282 | 5.02558 | 5.02546 | 5.02046 |
| N° 30 | 4.99974 | 5.00153 | 5.00314 | 5.00572 | 5.00792 | 5.01074 | 5.01307 | 5.01492 | 5.01717 | 5.01996 | 5.02305 | 5.02593 | 5.02580 | 5.01923 |
| N° 31 | 5.00051 | 5.00259 | 5.00440 | 5.00732 | 5.00977 | 5.01285 | 5.01550 | 5.01751 | 5.01990 | 5.02282 | 5.02608 | 5.02901 | 5.02889 | 5.02414 |

5. Vout4

Ta=25°C; Vin=15V; IL=0mA; VO=2.5V

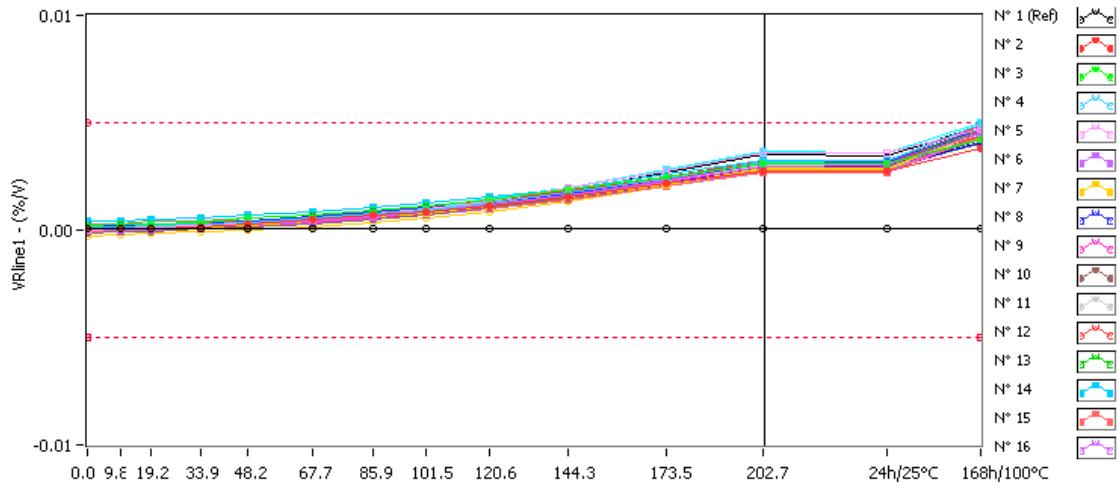


Vout4 . (V) Min = 2.475 Max = 2.525

| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C | 168h/100°C |
|------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------|------------|
| N° 1 (Ref) | 2.50028 | 2.50022 | 2.50015 | 2.50012 | 2.50016 | 2.50020 | 2.50027 | 2.50029 | 2.50028 | 2.50023 | 2.50021 | 2.50019 | 2.50021 | 2.50023 |
| N° 2 | 2.49983 | 2.50016 | 2.50040 | 2.50082 | 2.50118 | 2.50163 | 2.50207 | 2.50234 | 2.50275 | 2.50324 | 2.50371 | 2.50419 | 2.50420 | 2.50327 |
| N° 3 | 2.49959 | 2.49988 | 2.50016 | 2.50055 | 2.50090 | 2.50135 | 2.50179 | 2.50211 | 2.50249 | 2.50298 | 2.50347 | 2.50396 | 2.50397 | 2.50307 |
| N° 4 | 2.49905 | 2.49932 | 2.49961 | 2.50008 | 2.50050 | 2.50102 | 2.50150 | 2.50186 | 2.50229 | 2.50281 | 2.50336 | 2.50385 | 2.50385 | 2.50266 |
| N° 5 | 2.49959 | 2.49985 | 2.50015 | 2.50060 | 2.50099 | 2.50151 | 2.50195 | 2.50229 | 2.50271 | 2.50327 | 2.50382 | 2.50437 | 2.50437 | 2.50327 |
| N° 6 | 2.50039 | 2.50069 | 2.50098 | 2.50142 | 2.50187 | 2.50241 | 2.50289 | 2.50324 | 2.50367 | 2.50422 | 2.50470 | 2.50524 | 2.50523 | 2.50409 |
| N° 7 | 2.49870 | 2.49901 | 2.49929 | 2.49973 | 2.50016 | 2.50071 | 2.50119 | 2.50154 | 2.50194 | 2.50247 | 2.50300 | 2.50350 | 2.50350 | 2.50258 |
| N° 8 | 2.49951 | 2.49981 | 2.50011 | 2.50058 | 2.50101 | 2.50156 | 2.50203 | 2.50240 | 2.50284 | 2.50335 | 2.50388 | 2.50437 | 2.50437 | 2.50336 |
| N° 9 | 2.49964 | 2.49993 | 2.50022 | 2.50069 | 2.50113 | 2.50169 | 2.50219 | 2.50257 | 2.50298 | 2.50353 | 2.50409 | 2.50461 | 2.50460 | 2.50350 |
| N° 10 | 2.49998 | 2.50029 | 2.50064 | 2.50115 | 2.50162 | 2.50221 | 2.50270 | 2.50306 | 2.50348 | 2.50403 | 2.50457 | 2.50506 | 2.50504 | 2.50401 |
| N° 11 | 2.49993 | 2.50025 | 2.50056 | 2.50103 | 2.50147 | 2.50202 | 2.50252 | 2.50289 | 2.50332 | 2.50387 | 2.50444 | 2.50494 | 2.50493 | 2.50374 |
| N° 12 | 2.50030 | 2.50056 | 2.50086 | 2.50131 | 2.50169 | 2.50216 | 2.50259 | 2.50293 | 2.50333 | 2.50386 | 2.50444 | 2.50496 | 2.50495 | 2.50394 |
| N° 13 | 2.49973 | 2.50001 | 2.50032 | 2.50081 | 2.50126 | 2.50180 | 2.50229 | 2.50267 | 2.50310 | 2.50366 | 2.50425 | 2.50476 | 2.50476 | 2.50363 |
| N° 14 | 2.49941 | 2.49975 | 2.50003 | 2.50046 | 2.50082 | 2.50129 | 2.50175 | 2.50209 | 2.50248 | 2.50298 | 2.50350 | 2.50399 | 2.50400 | 2.50317 |
| N° 15 | 2.49961 | 2.49993 | 2.50020 | 2.50063 | 2.50102 | 2.50147 | 2.50189 | 2.50220 | 2.50260 | 2.50310 | 2.50362 | 2.50411 | 2.50411 | 2.50342 |
| N° 16 | 2.49950 | 2.49980 | 2.50013 | 2.50061 | 2.50102 | 2.50157 | 2.50202 | 2.50239 | 2.50282 | 2.50332 | 2.50385 | 2.50437 | 2.50436 | 2.50330 |
| N° 17 | 2.49942 | 2.49969 | 2.49999 | 2.50046 | 2.50089 | 2.50143 | 2.50193 | 2.50231 | 2.50274 | 2.50331 | 2.50388 | 2.50442 | 2.50440 | 2.50332 |
| N° 18 | 2.49949 | 2.49978 | 2.50008 | 2.50053 | 2.50092 | 2.50143 | 2.50188 | 2.50224 | 2.50265 | 2.50315 | 2.50371 | 2.50422 | 2.50418 | 2.50304 |
| N° 19 | 2.49903 | 2.49938 | 2.49967 | 2.50017 | 2.50062 | 2.50118 | 2.50167 | 2.50204 | 2.50243 | 2.50297 | 2.50351 | 2.50402 | 2.50401 | 2.50303 |
| N° 20 | 2.49994 | 2.50030 | 2.50061 | 2.50114 | 2.50162 | 2.50225 | 2.50278 | 2.50313 | 2.50358 | 2.50412 | 2.50467 | 2.50517 | 2.50516 | 2.50409 |
| N° 21 | 2.49936 | 2.49964 | 2.49994 | 2.50041 | 2.50081 | 2.50131 | 2.50177 | 2.50211 | 2.50253 | 2.50304 | 2.50363 | 2.50414 | 2.50413 | 2.50287 |
| N° 22 | 2.49921 | 2.49948 | 2.49976 | 2.50023 | 2.50065 | 2.50122 | 2.50171 | 2.50206 | 2.50249 | 2.50300 | 2.50355 | 2.50406 | 2.50406 | 2.50297 |
| N° 23 | 2.49967 | 2.49997 | 2.50023 | 2.50066 | 2.50105 | 2.50156 | 2.50201 | 2.50235 | 2.50276 | 2.50325 | 2.50376 | 2.50426 | 2.50426 | 2.50332 |
| N° 24 | 2.49928 | 2.49960 | 2.49990 | 2.50041 | 2.50088 | 2.50148 | 2.50199 | 2.50236 | 2.50279 | 2.50331 | 2.50386 | 2.50439 | 2.50437 | 2.50327 |
| N° 25 | 2.50043 | 2.50072 | 2.50098 | 2.50144 | 2.50185 | 2.50237 | 2.50282 | 2.50318 | 2.50359 | 2.50411 | 2.50467 | 2.50518 | 2.50517 | 2.50403 |
| N° 26 | 2.49965 | 2.49995 | 2.50023 | 2.50064 | 2.50100 | 2.50148 | 2.50189 | 2.50219 | 2.50257 | 2.50305 | 2.50357 | 2.50405 | 2.50404 | 2.50310 |
| N° 27 | 2.50057 | 2.50090 | 2.50116 | 2.50164 | 2.50203 | 2.50256 | 2.50303 | 2.50334 | 2.50373 | 2.50424 | 2.50475 | 2.50523 | 2.50433 | |
| N° 28 | 2.49993 | 2.50021 | 2.50043 | 2.50088 | 2.50125 | 2.50174 | 2.50217 | 2.50246 | 2.50282 | 2.50331 | 2.50381 | 2.50434 | 2.50433 | 2.50337 |
| N° 29 | 2.49972 | 2.50003 | 2.50030 | 2.50073 | 2.50113 | 2.50159 | 2.50203 | 2.50236 | 2.50273 | 2.50323 | 2.50377 | 2.50427 | 2.50426 | 2.50332 |
| N° 30 | 2.49922 | 2.49951 | 2.49977 | 2.50022 | 2.50061 | 2.50114 | 2.50157 | 2.50192 | 2.50234 | 2.50287 | 2.50343 | 2.50396 | 2.50396 | 2.50278 |
| N° 31 | 2.49951 | 2.49987 | 2.50016 | 2.50069 | 2.50113 | 2.50172 | 2.50223 | 2.50261 | 2.50304 | 2.50357 | 2.50415 | 2.50466 | 2.50359 | |

6. VRline1

Ta=25°C; 12.5V<Vin<15V; VO=10V

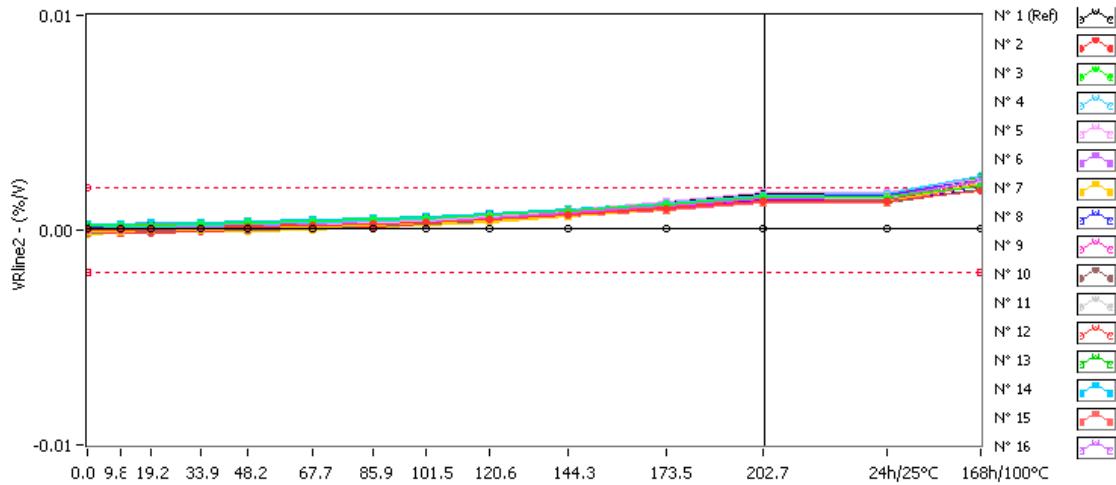


VRline1 . (%/V) **Min = -0.005 Max = 0.005**

| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C krad(Si) | 168h/100°C krad(Si) |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|------------------------|
| N° 1 (Ref) | 6.75E-5 | 4.10E-5 | 9.74E-5 | 7.82E-5 | 4.74E-5 | 8.48E-5 | 6.61E-5 | 4.48E-5 | 4.96E-5 | 4.00E-5 | 5.26E-5 | 6.50E-5 | 4.43E-5 | 6.64E-5 |
| N° 2 | 4.21E-5 | 5.33E-5 | 7.50E-5 | 1.72E-4 | 3.01E-4 | 4.60E-4 | 6.97E-4 | 8.43E-4 | 1.13E-3 | 1.56E-3 | 2.16E-3 | 2.77E-3 | 2.78E-3 | 3.78E-3 |
| N° 3 | 2.23E-4 | 2.65E-4 | 3.13E-4 | 3.87E-4 | 5.43E-4 | 7.04E-4 | 9.03E-4 | 1.14E-3 | 1.39E-3 | 1.88E-3 | 2.48E-3 | 3.13E-3 | 3.07E-3 | 4.23E-3 |
| N° 4 | 1.10E-4 | 1.65E-4 | 2.07E-4 | 2.95E-4 | 3.82E-4 | 5.31E-4 | 7.53E-4 | 9.44E-4 | 1.24E-3 | 1.78E-3 | 2.43E-3 | 3.19E-3 | 3.21E-3 | 4.93E-3 |
| N° 5 | 1.07E-5 | 5.18E-5 | 1.37E-4 | 2.02E-4 | 3.39E-4 | 5.15E-4 | 7.93E-4 | 9.95E-4 | 1.34E-3 | 2.00E-3 | 2.75E-3 | 3.61E-3 | 3.60E-3 | 4.71E-3 |
| N° 6 | 2.69E-5 | 1.76E-6 | 3.47E-5 | 1.59E-4 | 2.69E-4 | 4.31E-4 | 6.03E-4 | 8.77E-4 | 1.17E-3 | 1.61E-3 | 2.28E-3 | 2.93E-3 | 3.03E-3 | 4.52E-3 |
| N° 7 | 2.24E-5 | 3.87E-5 | 8.48E-5 | 1.60E-4 | 2.43E-4 | 4.36E-4 | 6.09E-4 | 7.94E-4 | 1.13E-3 | 1.54E-3 | 2.14E-3 | 2.86E-3 | 2.91E-3 | 4.52E-3 |
| N° 8 | 1.77E-4 | 2.24E-4 | 2.11E-4 | 2.82E-4 | 4.25E-4 | 6.22E-4 | 8.30E-4 | 1.06E-3 | 1.28E-3 | 1.71E-3 | 2.41E-3 | 3.13E-3 | 3.18E-3 | 4.72E-3 |
| N° 9 | -3.02E-5 | -3.52E-6 | 3.33E-5 | 1.51E-4 | 2.29E-4 | 3.53E-4 | 5.78E-4 | 8.13E-4 | 1.10E-3 | 1.64E-3 | 2.29E-3 | 3.11E-3 | 3.09E-3 | 4.80E-3 |
| N° 10 | -1.57E-4 | -8.45E-5 | -5.10E-5 | 7.28E-5 | 1.20E-4 | 2.75E-4 | 4.90E-4 | 6.89E-4 | 1.05E-3 | 1.50E-3 | 2.15E-3 | 2.88E-3 | 2.90E-3 | 4.65E-3 |
| N° 11 | 5.22E-5 | 3.06E-5 | 7.18E-5 | 1.60E-4 | 2.69E-4 | 4.35E-4 | 6.19E-4 | 8.02E-4 | 1.18E-3 | 1.64E-3 | 2.28E-3 | 3.01E-3 | 3.13E-3 | 4.79E-3 |
| N° 12 | -1.13E-4 | -6.96E-5 | -3.58E-5 | 5.76E-5 | 1.69E-4 | 3.15E-4 | 5.82E-4 | 7.80E-4 | 1.08E-3 | 1.62E-3 | 2.38E-3 | 3.09E-3 | 3.17E-3 | 4.34E-3 |
| N° 13 | 1.57E-5 | 6.16E-5 | 1.34E-4 | 1.87E-4 | 2.70E-4 | 4.32E-4 | 6.34E-4 | 8.34E-4 | 1.14E-3 | 1.62E-3 | 2.30E-3 | 2.97E-3 | 3.02E-3 | 4.71E-3 |
| N° 14 | 4.13E-4 | 4.40E-4 | 5.07E-4 | 5.74E-4 | 6.74E-4 | 8.63E-4 | 1.06E-3 | 1.26E-3 | 1.55E-3 | 1.90E-3 | 2.58E-3 | 3.27E-3 | 3.25E-3 | 4.68E-3 |
| N° 15 | -8.74E-5 | -8.78E-5 | -1.76E-5 | 4.40E-5 | 1.63E-4 | 3.41E-4 | 5.62E-4 | 7.43E-4 | 9.77E-4 | 1.39E-3 | 2.02E-3 | 2.64E-3 | 3.26E-3 | 4.37E-3 |
| N° 16 | -8.15E-5 | -4.06E-5 | 6.08E-5 | 6.16E-5 | 1.57E-4 | 3.30E-4 | 5.37E-4 | 7.07E-4 | 1.00E-3 | 1.44E-3 | 2.05E-3 | 2.75E-3 | 2.77E-3 | 4.42E-3 |
| N° 17 | -2.71E-4 | -2.04E-4 | -1.42E-4 | -9.87E-5 | 7.84E-6 | 1.53E-4 | 3.76E-4 | 5.46E-4 | 8.44E-4 | 1.34E-3 | 2.03E-3 | 2.80E-3 | 3.84E-3 | 4.29E-3 |
| N° 18 | 1.31E-5 | 4.61E-5 | 1.05E-4 | 2.09E-4 | 2.72E-4 | 4.04E-4 | 6.32E-4 | 8.14E-4 | 1.08E-3 | 1.46E-3 | 2.11E-3 | 2.74E-3 | 2.75E-3 | 4.60E-3 |
| N° 19 | 5.81E-5 | 8.10E-5 | 1.15E-4 | 2.33E-4 | 2.87E-4 | 4.85E-4 | 6.73E-4 | 8.10E-4 | 1.11E-3 | 1.53E-3 | 2.24E-3 | 2.86E-3 | 2.92E-3 | 4.62E-3 |
| N° 20 | 3.04E-5 | 1.29E-4 | 1.49E-4 | 2.22E-4 | 3.25E-4 | 4.97E-4 | 6.25E-4 | 8.08E-4 | 1.15E-3 | 1.57E-3 | 2.13E-3 | 2.81E-3 | 2.83E-3 | 4.55E-3 |
| N° 21 | 4.29E-5 | 9.54E-5 | 1.38E-4 | 2.49E-4 | 3.52E-4 | 5.72E-4 | 8.01E-4 | 1.01E-3 | 1.45E-3 | 1.99E-3 | 2.82E-3 | 3.63E-3 | 3.63E-3 | 5.00E-3 |
| N° 22 | 1.65E-4 | 2.11E-4 | 2.37E-4 | 3.20E-4 | 4.57E-4 | 5.86E-4 | 8.52E-4 | 1.07E-3 | 1.32E-3 | 1.81E-3 | 2.49E-3 | 3.22E-3 | 3.23E-3 | 4.85E-3 |
| N° 23 | 6.27E-5 | 5.81E-5 | 1.19E-4 | 1.97E-4 | 3.22E-4 | 4.79E-4 | 6.66E-4 | 8.57E-4 | 1.14E-3 | 1.57E-3 | 2.09E-3 | 2.85E-3 | 3.28E-3 | 4.20E-3 |
| N° 24 | 1.02E-5 | 4.32E-6 | 6.22E-5 | 1.72E-4 | 2.70E-4 | 4.84E-4 | 6.38E-4 | 8.51E-4 | 1.19E-3 | 1.61E-3 | 2.29E-3 | 2.96E-3 | 3.12E-3 | 4.79E-3 |
| N° 25 | -1.60E-5 | 1.34E-5 | 3.58E-5 | 1.40E-4 | 2.60E-4 | 4.37E-4 | 6.37E-4 | 8.55E-4 | 1.17E-3 | 1.61E-3 | 2.29E-3 | 3.10E-3 | 3.11E-3 | 4.59E-3 |
| N° 26 | 3.60E-5 | 5.09E-5 | 1.09E-4 | 2.14E-4 | 3.08E-4 | 4.87E-4 | 7.24E-4 | 9.37E-4 | 1.18E-3 | 1.64E-3 | 2.24E-3 | 2.86E-3 | 3.88E-3 | 4.05E-3 |
| N° 27 | 2.94E-4 | 3.10E-4 | 3.90E-4 | 4.23E-4 | 5.36E-4 | 7.37E-4 | 9.28E-4 | 1.14E-3 | 1.40E-3 | 1.85E-3 | 2.47E-3 | 3.11E-3 | 3.19E-3 | 4.66E-3 |
| N° 28 | 2.85E-5 | 7.60E-5 | 1.18E-4 | 1.96E-4 | 3.27E-4 | 4.69E-4 | 6.89E-4 | 9.18E-4 | 1.17E-3 | 1.61E-3 | 2.25E-3 | 2.89E-3 | 3.97E-3 | 4.04E-3 |
| N° 29 | 1.37E-4 | 1.48E-4 | 1.66E-4 | 2.46E-4 | 3.56E-4 | 5.37E-4 | 6.63E-4 | 9.17E-4 | 1.18E-3 | 1.64E-3 | 2.25E-3 | 2.84E-3 | 3.28E-3 | 4.08E-3 |
| N° 30 | 3.63E-5 | 3.78E-5 | 1.15E-4 | 1.99E-4 | 3.33E-4 | 5.35E-4 | 7.32E-4 | 1.02E-3 | 1.34E-3 | 1.86E-3 | 2.66E-3 | 3.49E-3 | 3.47E-3 | 4.85E-3 |
| N° 31 | -2.93E-5 | -9.92E-6 | 4.94E-5 | 8.49E-5 | 2.28E-4 | 3.83E-4 | 5.53E-4 | 7.39E-4 | 1.02E-3 | 1.48E-3 | 2.04E-3 | 2.78E-3 | 2.77E-3 | 4.61E-3 |

7. VRline2

Ta=25°C; 15V<Vin<30V; VO=10V

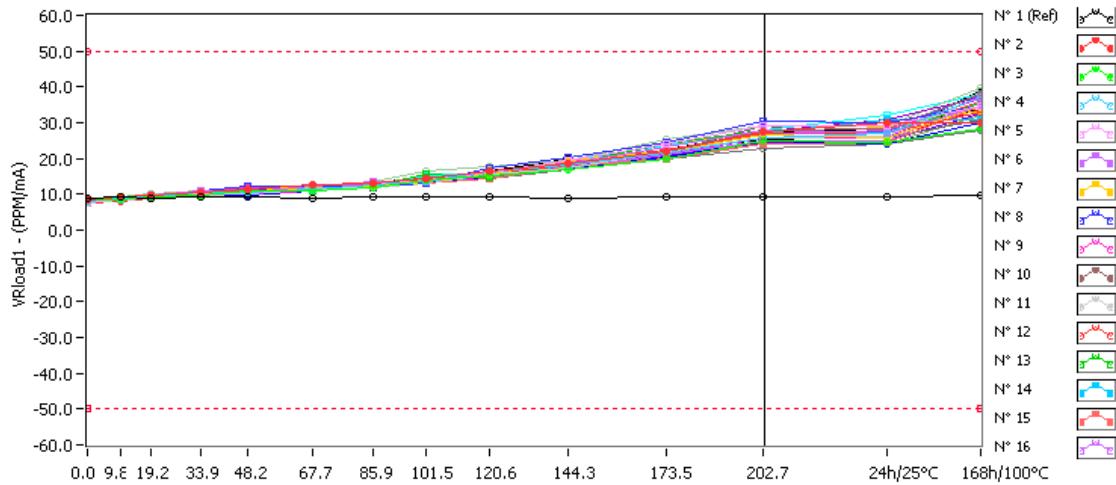


VRline2 . (%/V) Min = -0.002 Max = 0.002

| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C | 168h/100°C | |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|---------|
| N° 1 (Ref) | 6.31E-5 | 6.39E-5 | 6.03E-5 | 6.66E-5 | 6.56E-5 | 6.76E-5 | 6.13E-5 | 6.11E-5 | 6.37E-5 | 6.19E-5 | 6.38E-5 | 6.62E-5 | 5.85E-5 | 6.00E-5 | |
| N° 2 | -1.31E-5 | -7.65E-6 | 2.50E-5 | 6.87E-5 | 1.16E-4 | 2.00E-4 | 2.87E-4 | 3.81E-4 | 5.13E-4 | 7.23E-4 | 1.00E-3 | 1.33E-3 | 1.33E-3 | 1.84E-3 | |
| N° 3 | 1.81E-4 | 1.91E-4 | 2.25E-4 | 2.67E-4 | 3.20E-4 | 3.98E-4 | 4.80E-4 | 5.73E-4 | 7.11E-4 | 9.19E-4 | 1.21E-3 | 1.52E-3 | 1.53E-3 | 2.06E-3 | |
| N° 4 | 9.53E-5 | 1.28E-4 | 1.54E-4 | 1.98E-4 | 2.48E-4 | 3.24E-4 | 4.13E-4 | 5.18E-4 | 6.72E-4 | 9.20E-4 | 1.26E-3 | 1.65E-3 | 1.67E-3 | 2.56E-3 | |
| N° 5 | -1.21E-5 | 3.28E-6 | 3.74E-5 | 8.02E-5 | 1.43E-4 | 2.39E-4 | 3.43E-4 | 4.57E-4 | 6.41E-4 | 9.32E-4 | 1.32E-3 | 1.75E-3 | 1.77E-3 | 2.37E-3 | |
| N° 6 | 3.05E-5 | 5.46E-5 | 8.23E-5 | 1.28E-4 | 1.74E-4 | 2.54E-4 | 3.48E-4 | 4.45E-4 | 5.97E-4 | 8.29E-4 | 1.15E-3 | 1.50E-3 | 1.52E-3 | 2.28E-3 | |
| N° 7 | -5.83E-5 | -4.12E-5 | -1.02E-5 | 2.36E-5 | 6.75E-5 | 1.46E-4 | 2.40E-4 | 3.23E-4 | 4.57E-4 | 6.68E-4 | 9.74E-4 | 1.33E-3 | 1.33E-3 | 2.18E-3 | |
| N° 8 | 1.32E-4 | 1.54E-4 | 1.81E-4 | 2.21E-4 | 2.81E-4 | 3.53E-4 | 4.41E-4 | 5.33E-4 | 6.82E-4 | 9.04E-4 | 1.23E-3 | 1.59E-3 | 1.60E-3 | 2.40E-3 | |
| N° 9 | -2.75E-5 | 1.39E-6 | 2.46E-5 | 6.09E-5 | 1.15E-4 | 1.90E-4 | 2.88E-4 | 3.95E-4 | 5.46E-4 | 7.70E-4 | 1.14E-3 | 1.50E-3 | 1.53E-3 | 2.42E-3 | |
| N° 10 | -1.13E-4 | -9.45E-5 | -7.74E-5 | -3.49E-5 | 2.33E-5 | 9.04E-5 | 1.82E-4 | 2.75E-4 | 4.34E-4 | 6.63E-4 | 9.89E-4 | 1.36E-3 | 1.38E-3 | 2.29E-3 | |
| N° 11 | -4.50E-5 | -2.07E-5 | 5.63E-6 | 5.12E-5 | 9.85E-5 | 1.78E-4 | 2.70E-4 | 3.61E-4 | 5.20E-4 | 7.62E-4 | 1.11E-3 | 1.50E-3 | 1.51E-3 | 2.41E-3 | |
| N° 12 | -1.68E-4 | -1.51E-4 | -1.28E-4 | -7.26E-5 | -2.92E-5 | 5.96E-5 | 1.71E-4 | 2.77E-4 | 4.40E-4 | 7.06E-4 | 1.07E-3 | 1.46E-3 | 1.48E-3 | 2.11E-3 | |
| N° 13 | 3.11E-5 | 4.83E-5 | 7.80E-5 | 1.18E-4 | 1.65E-4 | 2.46E-4 | 3.43E-4 | 4.32E-4 | 5.86E-4 | 8.06E-4 | 1.15E-3 | 1.52E-3 | 1.54E-3 | 2.44E-3 | |
| N° 14 | 2.84E-4 | 2.98E-4 | 3.23E-4 | 3.68E-4 | 4.18E-4 | 4.94E-4 | 5.79E-4 | 6.63E-4 | 8.01E-4 | 1.00E-3 | 1.30E-3 | 1.62E-3 | 1.63E-3 | 2.30E-3 | |
| N° 15 | -1.21E-4 | -1.08E-4 | -8.03E-5 | -3.39E-5 | 1.09E-5 | 9.20E-5 | 1.83E-4 | 2.72E-4 | 4.21E-4 | 6.26E-4 | 9.21E-4 | 1.24E-3 | 1.26E-3 | 2.12E-3 | |
| N° 16 | -1.09E-4 | -8.61E-5 | -6.83E-5 | -2.57E-5 | 1.48E-5 | 8.64E-5 | 1.80E-4 | 2.74E-4 | 4.10E-4 | 6.19E-4 | 9.38E-4 | 1.28E-3 | 1.27E-3 | 2.19E-3 | |
| N° 17 | -1.94E-4 | -1.70E-4 | -1.48E-4 | -1.03E-4 | -6.62E-5 | 3.09E-5 | 1.24E-4 | 2.17E-4 | 3.78E-4 | 6.13E-4 | 9.74E-4 | 1.34E-3 | 1.36E-3 | 2.18E-3 | |
| N° 18 | 1.67E-5 | 3.04E-5 | 5.40E-5 | 9.86E-5 | 1.42E-4 | 2.20E-4 | 2.99E-4 | 3.90E-4 | 5.31E-4 | 7.35E-4 | 1.04E-3 | 1.37E-3 | 1.38E-3 | 2.31E-3 | |
| N° 19 | 8.27E-7 | 1.12E-5 | 4.09E-5 | 7.48E-5 | 1.27E-4 | 2.04E-4 | 2.94E-4 | 3.89E-4 | 5.35E-4 | 7.33E-4 | 1.06E-3 | 1.42E-3 | 1.43E-3 | 2.31E-3 | |
| N° 20 | 3.49E-6 | 1.88E-5 | 4.46E-5 | 8.02E-5 | 1.38E-4 | 2.02E-4 | 2.88E-4 | 3.82E-4 | 5.14E-4 | 7.24E-4 | 1.03E-3 | 1.37E-3 | 1.38E-3 | 2.30E-3 | |
| N° 21 | -5.05E-5 | -3.27E-5 | -1.13E-5 | 3.98E-5 | 1.01E-4 | 1.92E-4 | 2.80E-4 | 3.62E-4 | 4.62E-4 | 6.12E-4 | 8.85E-4 | 1.31E-3 | 1.73E-3 | 1.75E-3 | 2.47E-3 |
| N° 22 | 9.77E-5 | 1.25E-4 | 1.49E-4 | 2.29E-4 | 2.39E-4 | 3.23E-4 | 4.18E-4 | 5.08E-4 | 6.63E-4 | 9.03E-4 | 1.24E-3 | 1.60E-3 | 1.61E-3 | 2.45E-3 | |
| N° 23 | -8.14E-5 | -6.17E-5 | -4.33E-5 | 3.95E-6 | 4.48E-5 | 1.14E-4 | 2.00E-4 | 2.83E-4 | 4.23E-4 | 6.28E-4 | 9.23E-4 | 1.23E-3 | 1.24E-3 | 1.93E-3 | |
| N° 24 | -3.90E-5 | -2.53E-5 | -6.61E-6 | 4.28E-5 | 9.46E-5 | 1.70E-4 | 2.66E-4 | 3.54E-4 | 5.12E-4 | 7.51E-4 | 1.09E-3 | 1.47E-3 | 1.48E-3 | 2.41E-3 | |
| N° 25 | -8.95E-5 | -7.43E-5 | -4.68E-5 | -2.83E-6 | 3.80E-5 | 1.25E-4 | 2.10E-4 | 3.10E-4 | 4.58E-4 | 7.08E-4 | 1.05E-3 | 1.41E-3 | 1.43E-3 | 2.20E-3 | |
| N° 26 | -2.67E-5 | -1.31E-5 | 9.28E-6 | 5.35E-5 | 1.09E-4 | 1.80E-4 | 2.68E-4 | 3.64E-4 | 5.11E-4 | 7.12E-4 | 1.01E-3 | 1.33E-3 | 1.36E-3 | 1.92E-3 | |
| N° 27 | 2.11E-4 | 2.25E-4 | 2.55E-4 | 2.96E-4 | 3.46E-4 | 4.21E-4 | 5.12E-4 | 5.98E-4 | 7.52E-4 | 9.43E-4 | 1.26E-3 | 1.59E-3 | 1.59E-3 | 2.33E-3 | |
| N° 28 | -4.78E-5 | -1.14E-5 | 1.30E-5 | 5.87E-5 | 1.07E-4 | 1.79E-4 | 2.68E-4 | 3.58E-4 | 5.00E-4 | 6.99E-4 | 9.95E-4 | 1.31E-3 | 1.33E-3 | 1.88E-3 | |
| N° 29 | 6.62E-5 | 7.53E-5 | 1.05E-4 | 1.41E-4 | 1.98E-4 | 2.82E-4 | 3.63E-4 | 4.49E-4 | 5.91E-4 | 7.86E-4 | 1.08E-3 | 1.41E-3 | 1.43E-3 | 2.05E-3 | |
| N° 30 | -1.21E-5 | 7.04E-6 | 3.37E-5 | 8.49E-5 | 1.44E-4 | 2.24E-4 | 3.31E-4 | 4.53E-4 | 6.15E-4 | 8.86E-4 | 1.27E-3 | 1.69E-3 | 1.71E-3 | 2.42E-3 | |
| N° 31 | -1.40E-5 | 4.27E-7 | 2.09E-5 | 6.61E-5 | 1.10E-4 | 1.92E-4 | 2.72E-4 | 3.66E-4 | 5.00E-4 | 7.22E-4 | 1.04E-3 | 1.39E-3 | 1.40E-3 | 2.35E-3 | |

8. VRload1

Ta=25°C; Vin=15V; 0mA<IL<5mA; VO=10V



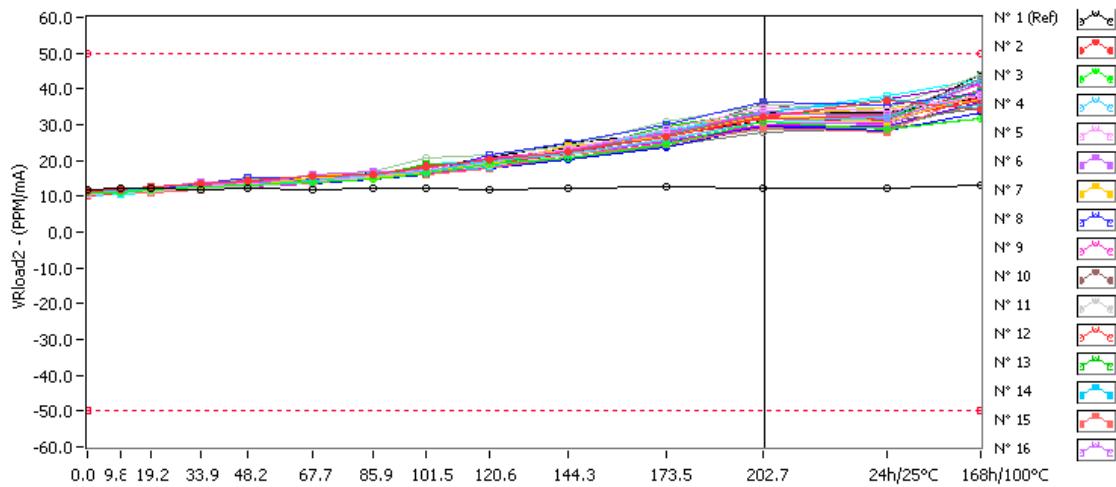
VRload1 . (PPM/mA)

Min = -50.0 Max = 50.0

| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 8.765 | 9.318 | 9.042 | 9.302 | 9.412 | 8.930 | 9.395 | 9.409 | 9.091 | 8.848 | 9.328 | 9.166 | 9.314 | 9.829 |
| N° 2 | 8.659 | 9.246 | 9.538 | 10.726 | 11.241 | 12.573 | 12.929 | 14.576 | 16.459 | 18.656 | 21.979 | 27.262 | 30.090 | 30.174 |
| N° 3 | 8.276 | 8.605 | 9.146 | 9.786 | 10.879 | 11.181 | 11.749 | 13.823 | 15.029 | 17.098 | 19.685 | 24.912 | 24.320 | 28.293 |
| N° 4 | 8.221 | 8.740 | 9.204 | 10.571 | 10.409 | 11.281 | 12.704 | 13.593 | 16.637 | 18.180 | 21.569 | 25.654 | 27.236 | 37.356 |
| N° 5 | 7.845 | 8.639 | 9.030 | 10.202 | 10.570 | 11.330 | 12.798 | 13.992 | 15.985 | 19.511 | 23.963 | 29.092 | 29.304 | 34.474 |
| N° 6 | 8.296 | 8.889 | 9.513 | 11.031 | 10.428 | 12.323 | 13.385 | 13.526 | 15.887 | 18.506 | 23.374 | 27.941 | 27.199 | 34.665 |
| N° 7 | 8.352 | 9.207 | 9.626 | 9.939 | 10.598 | 11.711 | 12.165 | 13.576 | 15.681 | 19.613 | 22.086 | 26.639 | 25.692 | 34.661 |
| N° 8 | 8.548 | 8.839 | 9.407 | 10.794 | 12.270 | 12.087 | 12.349 | 13.158 | 17.326 | 20.420 | 24.604 | 30.318 | 30.175 | 34.827 |
| N° 9 | 8.424 | 9.052 | 9.555 | 10.594 | 11.733 | 12.212 | 12.806 | 14.242 | 16.216 | 18.913 | 22.175 | 26.809 | 27.777 | 36.908 |
| N° 10 | 8.290 | 8.923 | 9.552 | 10.825 | 10.842 | 11.557 | 12.683 | 13.720 | 15.931 | 18.688 | 22.010 | 28.028 | 28.214 | 38.155 |
| N° 11 | 7.682 | 8.421 | 9.488 | 9.877 | 10.311 | 11.281 | 11.759 | 13.171 | 15.475 | 17.498 | 21.926 | 25.952 | 26.231 | 37.003 |
| N° 12 | 7.587 | 8.193 | 8.738 | 9.827 | 10.382 | 11.254 | 12.780 | 13.427 | 15.758 | 18.011 | 22.312 | 27.111 | 26.878 | 32.945 |
| N° 13 | 8.081 | 8.589 | 9.344 | 10.196 | 10.409 | 11.176 | 12.392 | 15.473 | 14.855 | 18.404 | 23.971 | 28.017 | 27.025 | 35.388 |
| N° 14 | 8.629 | 9.333 | 9.652 | 10.451 | 10.947 | 11.199 | 12.975 | 13.525 | 15.205 | 18.206 | 22.601 | 27.162 | 30.889 | 30.747 |
| N° 15 | 7.757 | 8.475 | 9.087 | 9.827 | 10.434 | 10.830 | 12.163 | 12.895 | 14.487 | 17.789 | 19.957 | 24.115 | 24.424 | 34.760 |
| N° 16 | 8.357 | 8.615 | 9.628 | 10.334 | 10.661 | 11.621 | 12.306 | 13.563 | 15.042 | 17.492 | 21.125 | 24.960 | 25.126 | 36.047 |
| N° 17 | 7.956 | 8.692 | 8.898 | 10.239 | 10.478 | 12.702 | 12.297 | 13.446 | 15.249 | 18.564 | 23.895 | 27.425 | 28.709 | 33.173 |
| N° 18 | 8.157 | 8.371 | 8.960 | 10.048 | 10.328 | 10.815 | 12.467 | 13.941 | 14.735 | 17.614 | 20.941 | 25.784 | 25.857 | 37.731 |
| N° 19 | 8.573 | 9.137 | 9.813 | 11.077 | 11.356 | 11.856 | 12.292 | 14.551 | 16.050 | 18.240 | 21.850 | 27.534 | 30.861 | 37.354 |
| N° 20 | 8.602 | 9.375 | 10.042 | 10.938 | 11.783 | 12.298 | 13.662 | 16.420 | 17.669 | 19.573 | 25.355 | 29.092 | 29.071 | 39.546 |
| N° 21 | 7.497 | 8.279 | 9.149 | 9.652 | 10.181 | 11.280 | 12.842 | 15.230 | 16.094 | 19.316 | 23.594 | 27.817 | 32.243 | 37.975 |
| N° 22 | 8.305 | 8.858 | 9.546 | 10.463 | 10.886 | 12.004 | 12.746 | 14.884 | 16.193 | 18.929 | 22.540 | 26.890 | 26.918 | 35.894 |
| N° 23 | 8.381 | 9.065 | 9.327 | 10.295 | 11.361 | 11.575 | 12.242 | 14.554 | 16.615 | 18.014 | 21.462 | 29.359 | 25.923 | 30.786 |
| N° 24 | 8.002 | 8.560 | 9.628 | 10.527 | 10.415 | 11.267 | 12.120 | 13.516 | 15.862 | 19.588 | 22.500 | 27.115 | 27.459 | 38.088 |
| N° 25 | 8.209 | 8.865 | 9.491 | 10.339 | 10.506 | 11.532 | 12.563 | 13.951 | 15.158 | 17.929 | 21.858 | 25.871 | 25.980 | 33.704 |
| N° 26 | 8.161 | 8.529 | 8.787 | 9.716 | 9.795 | 10.949 | 12.147 | 13.342 | 14.648 | 17.163 | 20.078 | 24.896 | 23.965 | 29.821 |
| N° 27 | 8.723 | 9.049 | 9.904 | 10.485 | 11.124 | 11.317 | 12.226 | 13.414 | 15.317 | 17.556 | 20.392 | 24.039 | 24.089 | 31.967 |
| N° 28 | 8.392 | 8.855 | 9.949 | 10.330 | 10.576 | 12.377 | 12.316 | 13.646 | 14.564 | 17.107 | 19.907 | 22.807 | 24.009 | 28.042 |
| N° 29 | 8.201 | 8.980 | 9.448 | 10.118 | 10.486 | 11.680 | 12.008 | 13.700 | 15.101 | 17.353 | 20.552 | 24.446 | 25.055 | 32.478 |
| N° 30 | 7.961 | 8.865 | 9.480 | 9.951 | 10.808 | 11.660 | 13.290 | 14.689 | 15.742 | 19.129 | 22.330 | 27.612 | 28.452 | 33.708 |
| N° 31 | 8.404 | 9.141 | 9.812 | 10.534 | 10.657 | 11.502 | 12.166 | 14.424 | 16.511 | 19.926 | 22.019 | 25.383 | 26.355 | 38.941 |

9. VRload2

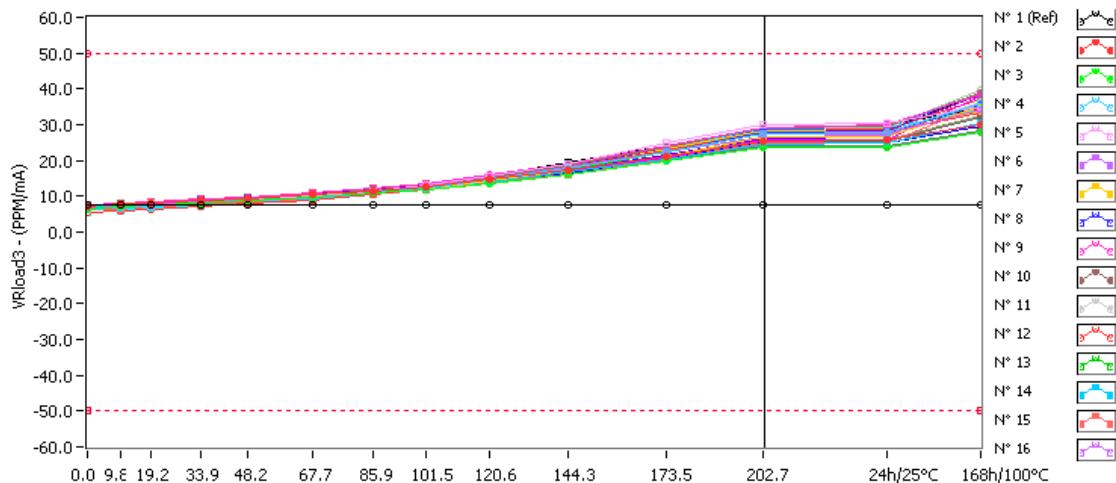
Ta=25°C; Vin=15V; 0mA<IL<5mA; VO=7.5V



| | VRload2 . (PPM/mA) | | | | | | | | | | | | | | |
|------------|------------------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------|------------|--|
| | Min = -50.0 Max = 50.0 | | | | | | | | | | | | | | |
| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C | 168h/100°C | |
| N° 1 (Ref) | 11.804 | 12.277 | 12.254 | 11.926 | 12.424 | 12.009 | 12.414 | 12.451 | 12.026 | 12.156 | 12.699 | 12.226 | 12.206 | 13.083 | |
| N° 2 | 11.288 | 11.952 | 12.503 | 13.355 | 14.212 | 15.514 | 15.975 | 18.300 | 20.295 | 22.278 | 26.437 | 32.228 | 36.831 | 34.104 | |
| N° 3 | 10.999 | 11.158 | 11.811 | 12.478 | 13.217 | 13.763 | 14.855 | 16.626 | 18.865 | 20.697 | 24.478 | 30.867 | 28.655 | 31.891 | |
| N° 4 | 10.918 | 11.480 | 12.078 | 12.607 | 13.143 | 14.530 | 15.905 | 16.763 | 20.069 | 21.980 | 25.671 | 30.929 | 32.079 | 42.338 | |
| N° 5 | 10.592 | 11.149 | 12.059 | 12.810 | 13.608 | 14.066 | 15.671 | 17.442 | 19.602 | 23.203 | 28.798 | 34.457 | 33.794 | 38.066 | |
| N° 6 | 10.934 | 11.319 | 12.297 | 13.897 | 13.275 | 15.941 | 16.885 | 17.136 | 19.699 | 23.191 | 27.374 | 33.845 | 31.646 | 38.542 | |
| N° 7 | 10.927 | 11.762 | 12.170 | 12.809 | 13.064 | 15.017 | 15.024 | 17.097 | 19.047 | 24.102 | 26.574 | 32.535 | 30.908 | 38.653 | |
| N° 8 | 11.080 | 11.438 | 12.280 | 13.428 | 15.190 | 14.792 | 15.562 | 16.529 | 21.515 | 24.917 | 30.203 | 36.207 | 35.599 | 38.855 | |
| N° 9 | 11.445 | 11.962 | 12.556 | 13.160 | 14.001 | 14.839 | 16.025 | 17.755 | 20.607 | 22.917 | 27.694 | 32.851 | 32.394 | 41.504 | |
| N° 10 | 11.021 | 11.548 | 12.311 | 13.221 | 13.295 | 14.475 | 15.777 | 16.947 | 19.361 | 22.798 | 27.247 | 33.116 | 32.868 | 42.596 | |
| N° 11 | 10.593 | 10.951 | 11.392 | 12.272 | 12.754 | 14.095 | 15.309 | 16.746 | 18.779 | 21.341 | 26.036 | 30.881 | 30.740 | 41.547 | |
| N° 12 | 10.292 | 11.061 | 11.385 | 12.360 | 12.826 | 13.890 | 15.303 | 16.907 | 18.736 | 22.397 | 26.856 | 32.177 | 31.593 | 36.733 | |
| N° 13 | 10.605 | 11.449 | 11.995 | 12.752 | 13.421 | 14.412 | 15.749 | 18.831 | 18.945 | 22.490 | 29.700 | 33.625 | 32.319 | 39.238 | |
| N° 14 | 11.329 | 12.024 | 12.461 | 13.468 | 13.831 | 14.413 | 16.298 | 16.691 | 18.256 | 22.813 | 26.890 | 33.437 | 37.207 | 34.512 | |
| N° 15 | 10.092 | 10.946 | 11.185 | 11.949 | 13.077 | 13.684 | 15.623 | 16.041 | 17.616 | 21.614 | 24.474 | 29.212 | 27.929 | 39.390 | |
| N° 16 | 11.179 | 11.662 | 12.152 | 13.181 | 13.681 | 14.985 | 15.750 | 16.758 | 18.484 | 21.728 | 25.652 | 30.776 | 30.095 | 39.656 | |
| N° 17 | 10.535 | 11.056 | 11.821 | 12.325 | 12.899 | 16.091 | 15.652 | 16.577 | 19.386 | 22.539 | 29.516 | 32.732 | 34.516 | 36.661 | |
| N° 18 | 10.728 | 10.994 | 11.538 | 12.256 | 12.830 | 13.599 | 15.912 | 16.594 | 18.086 | 21.729 | 25.534 | 29.851 | 30.254 | 41.922 | |
| N° 19 | 11.288 | 11.775 | 12.502 | 13.280 | 14.031 | 14.864 | 15.881 | 17.424 | 19.562 | 22.699 | 26.886 | 33.497 | 37.271 | 41.522 | |
| N° 20 | 11.002 | 11.823 | 12.472 | 13.551 | 14.766 | 15.615 | 16.896 | 20.723 | 21.721 | 24.150 | 30.875 | 35.496 | 34.661 | 43.918 | |
| N° 21 | 10.136 | 10.642 | 11.189 | 12.452 | 12.786 | 13.990 | 15.581 | 18.829 | 19.877 | 23.110 | 28.505 | 33.554 | 37.952 | 42.774 | |
| N° 22 | 11.242 | 11.680 | 12.369 | 13.311 | 13.824 | 14.846 | 16.124 | 18.786 | 19.840 | 22.469 | 27.193 | 31.661 | 32.102 | 39.650 | |
| N° 23 | 11.367 | 11.732 | 12.617 | 12.937 | 14.174 | 14.512 | 15.547 | 18.401 | 20.371 | 22.194 | 26.848 | 36.048 | 31.055 | 34.753 | |
| N° 24 | 10.649 | 11.222 | 11.950 | 12.746 | 13.111 | 14.149 | 15.256 | 16.742 | 19.039 | 24.167 | 26.714 | 32.134 | 32.130 | 42.062 | |
| N° 25 | 11.091 | 11.778 | 12.229 | 13.224 | 14.010 | 14.569 | 15.518 | 17.312 | 18.621 | 22.103 | 26.920 | 30.923 | 31.169 | 37.483 | |
| N° 26 | 10.719 | 10.645 | 11.406 | 12.114 | 12.937 | 13.530 | 14.625 | 16.199 | 17.853 | 20.418 | 23.850 | 29.741 | 28.293 | 33.498 | |
| N° 27 | 11.487 | 12.019 | 12.645 | 13.206 | 13.720 | 14.556 | 15.401 | 16.914 | 18.614 | 20.839 | 24.763 | 28.688 | 29.016 | 35.760 | |
| N° 28 | 11.250 | 11.610 | 12.691 | 12.977 | 13.479 | 15.886 | 15.543 | 17.376 | 18.239 | 20.646 | 24.043 | 28.025 | 29.042 | 31.770 | |
| N° 29 | 11.056 | 11.372 | 12.002 | 12.693 | 13.430 | 14.233 | 15.348 | 16.641 | 18.783 | 20.892 | 25.134 | 29.710 | 29.592 | 36.465 | |
| N° 30 | 11.079 | 11.309 | 12.214 | 12.993 | 13.593 | 14.836 | 16.290 | 17.480 | 19.598 | 23.667 | 27.448 | 33.363 | 33.554 | 37.549 | |
| N° 31 | 11.077 | 11.540 | 12.345 | 13.299 | 13.908 | 14.278 | 15.293 | 18.251 | 20.693 | 24.995 | 27.396 | 30.882 | 31.311 | 43.792 | |

10. VRload3

Ta=25°C; Vin=15V; 0mA<IL<5mA; VO=5.0V



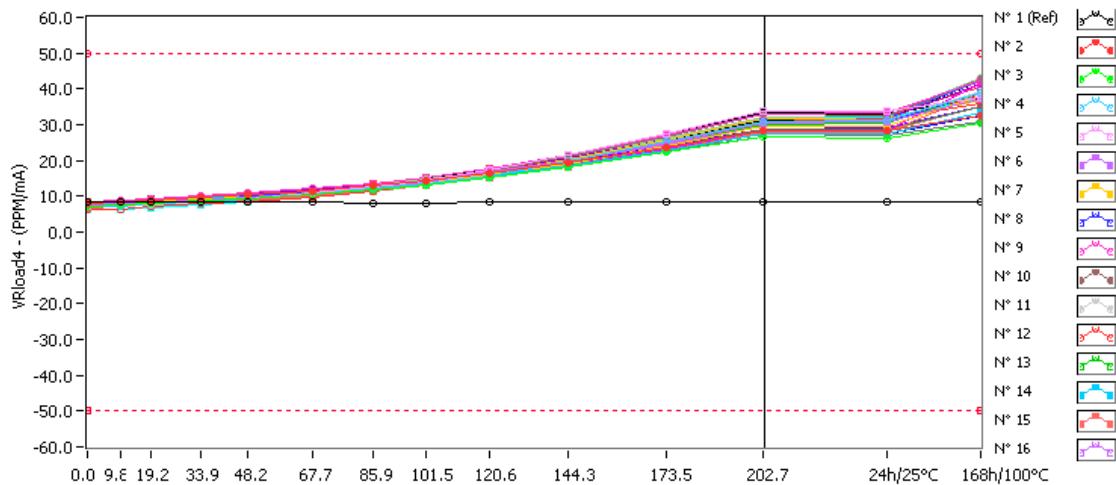
VRload3 . (PPM/mA)

Min = -50.0 Max = 50.0

| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C | 168h/100°C |
|------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------|------------|
| N° 1 (Ref) | 7.566 | 7.672 | 7.669 | 7.661 | 7.632 | 7.483 | 7.530 | 7.538 | 7.528 | 7.698 | 7.646 | 7.646 | 7.693 | 7.536 |
| N° 2 | 7.352 | 7.818 | 8.153 | 8.804 | 9.383 | 10.459 | 11.264 | 12.827 | 14.589 | 17.504 | 21.337 | 25.449 | 25.739 | 30.066 |
| N° 3 | 6.532 | 7.093 | 7.468 | 8.169 | 8.731 | 9.691 | 10.813 | 11.843 | 13.643 | 16.246 | 19.889 | 23.766 | 23.792 | 27.770 |
| N° 4 | 6.326 | 6.843 | 7.350 | 7.981 | 8.817 | 9.384 | 11.134 | 12.303 | 14.678 | 17.910 | 22.549 | 27.656 | 28.040 | 35.867 |
| N° 5 | 6.233 | 6.781 | 7.375 | 8.233 | 8.936 | 10.106 | 11.580 | 13.182 | 15.575 | 18.984 | 24.766 | 30.073 | 30.437 | 35.116 |
| N° 6 | 6.752 | 7.271 | 7.743 | 8.426 | 8.931 | 10.002 | 11.587 | 13.033 | 14.848 | 18.131 | 22.344 | 27.579 | 27.550 | 34.299 |
| N° 7 | 6.841 | 7.197 | 7.920 | 8.466 | 9.082 | 9.843 | 11.283 | 12.293 | 14.400 | 17.271 | 21.321 | 26.501 | 26.536 | 35.161 |
| N° 8 | 6.841 | 7.276 | 7.813 | 8.698 | 9.207 | 10.319 | 11.264 | 12.707 | 14.952 | 17.718 | 22.379 | 27.869 | 27.734 | 35.684 |
| N° 9 | 7.599 | 7.968 | 8.529 | 9.179 | 9.876 | 11.114 | 12.095 | 13.635 | 15.968 | 19.083 | 23.887 | 29.193 | 29.998 | 38.607 |
| N° 10 | 6.649 | 7.197 | 7.905 | 8.372 | 9.175 | 10.024 | 11.840 | 12.709 | 15.250 | 18.762 | 23.531 | 29.087 | 29.589 | 39.082 |
| N° 11 | 6.255 | 6.760 | 7.242 | 8.017 | 8.806 | 9.477 | 10.800 | 11.995 | 14.516 | 17.866 | 22.187 | 27.654 | 27.679 | 36.127 |
| N° 12 | 5.488 | 6.088 | 6.511 | 7.335 | 8.092 | 8.818 | 10.723 | 12.136 | 14.242 | 17.991 | 22.858 | 28.095 | 28.091 | 33.232 |
| N° 13 | 6.523 | 6.834 | 7.369 | 8.334 | 8.790 | 9.618 | 11.269 | 12.160 | 14.615 | 17.495 | 22.554 | 27.599 | 27.680 | 36.328 |
| N° 14 | 7.252 | 7.567 | 7.908 | 8.602 | 9.195 | 10.584 | 11.205 | 12.486 | 14.137 | 16.845 | 20.449 | 24.473 | 25.061 | 30.544 |
| N° 15 | 6.161 | 6.491 | 6.996 | 7.705 | 8.328 | 9.425 | 10.693 | 11.790 | 13.733 | 16.228 | 20.453 | 25.130 | 25.109 | 35.582 |
| N° 16 | 7.198 | 7.440 | 8.118 | 8.761 | 9.148 | 10.173 | 11.452 | 12.718 | 14.594 | 17.721 | 22.337 | 26.756 | 27.227 | 36.231 |
| N° 17 | 6.140 | 6.637 | 7.229 | 8.008 | 8.699 | 9.818 | 10.908 | 12.361 | 14.603 | 17.941 | 23.038 | 28.333 | 28.036 | 33.822 |
| N° 18 | 6.321 | 6.709 | 7.109 | 7.742 | 8.408 | 9.266 | 10.929 | 11.763 | 13.654 | 16.900 | 20.890 | 25.638 | 25.656 | 38.225 |
| N° 19 | 7.250 | 7.787 | 8.213 | 8.623 | 9.568 | 10.511 | 11.915 | 13.365 | 15.293 | 18.518 | 23.364 | 28.248 | 28.310 | 38.300 |
| N° 20 | 7.296 | 7.608 | 8.151 | 8.937 | 9.523 | 10.884 | 11.893 | 13.148 | 15.360 | 18.839 | 23.935 | 29.079 | 29.162 | 39.913 |
| N° 21 | 5.623 | 6.026 | 6.617 | 7.362 | 7.975 | 9.387 | 10.581 | 12.127 | 14.916 | 18.219 | 23.356 | 28.979 | 29.115 | 34.170 |
| N° 22 | 7.298 | 7.582 | 8.384 | 9.064 | 9.490 | 10.907 | 12.338 | 13.413 | 15.808 | 19.137 | 23.627 | 28.947 | 28.909 | 37.343 |
| N° 23 | 7.488 | 7.886 | 8.414 | 9.380 | 9.648 | 10.579 | 11.818 | 12.654 | 14.583 | 17.532 | 21.147 | 25.418 | 25.310 | 31.945 |
| N° 24 | 6.204 | 6.709 | 7.324 | 8.023 | 8.579 | 9.791 | 11.500 | 12.902 | 14.611 | 18.645 | 23.325 | 28.705 | 29.249 | 38.914 |
| N° 25 | 6.975 | 7.586 | 8.237 | 8.871 | 9.579 | 10.498 | 11.780 | 13.395 | 14.963 | 18.132 | 23.131 | 28.054 | 28.106 | 34.680 |
| N° 26 | 6.450 | 6.832 | 7.231 | 8.086 | 8.522 | 9.236 | 10.740 | 11.987 | 14.202 | 16.497 | 20.577 | 24.951 | 24.931 | 29.724 |
| N° 27 | 7.019 | 7.489 | 8.141 | 8.440 | 9.136 | 9.956 | 10.952 | 12.431 | 14.660 | 17.261 | 20.976 | 25.569 | 25.628 | 32.451 |
| N° 28 | 7.072 | 7.608 | 8.050 | 8.709 | 9.184 | 10.252 | 11.114 | 12.297 | 14.116 | 16.559 | 20.005 | 24.178 | 24.124 | 28.176 |
| N° 29 | 7.033 | 7.411 | 7.976 | 8.443 | 9.057 | 10.137 | 11.349 | 12.531 | 14.499 | 17.278 | 21.412 | 26.205 | 25.973 | 32.062 |
| N° 30 | 7.288 | 7.525 | 8.032 | 8.813 | 9.273 | 10.594 | 12.135 | 13.560 | 15.675 | 19.349 | 24.263 | 29.261 | 29.808 | 34.535 |
| N° 31 | 7.217 | 7.650 | 8.119 | 8.752 | 9.368 | 10.275 | 11.603 | 12.922 | 15.204 | 18.310 | 22.985 | 27.831 | 28.199 | 38.704 |

11. VRload4

Ta=25°C; Vin=15V; 0mA<IL<5mA; VO=2.5V



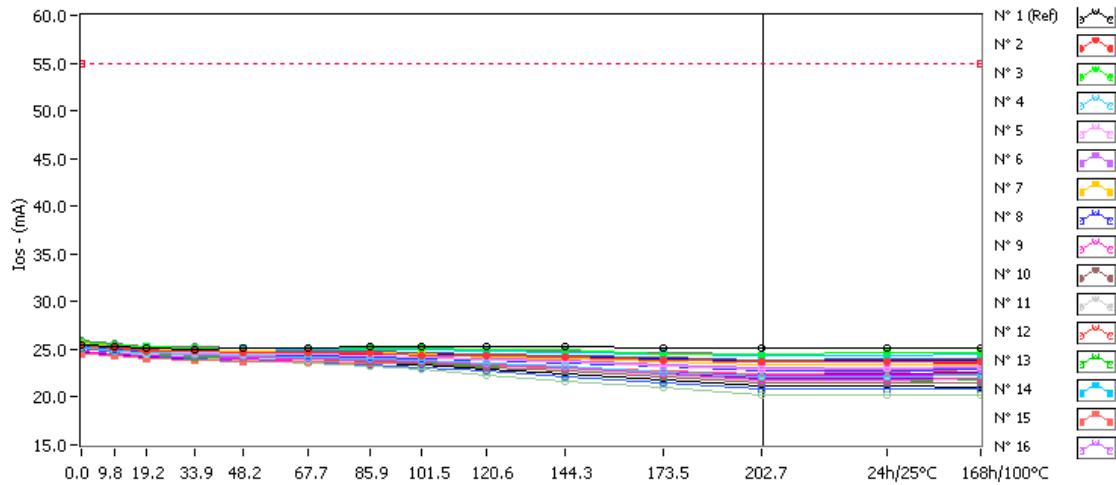
VRload4 . (PPM/mA)

Min = -50.0 Max = 50.0

| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 8.322 | 8.484 | 8.546 | 8.624 | 8.569 | 8.466 | 8.209 | 8.232 | 8.281 | 8.391 | 8.442 | 8.500 | 8.466 | 8.492 |
| N° 2 | 8.188 | 8.443 | 8.817 | 9.618 | 10.477 | 11.548 | 12.975 | 14.471 | 16.432 | 19.352 | 23.761 | 28.343 | 28.463 | 32.740 |
| N° 3 | 7.357 | 7.674 | 8.047 | 8.717 | 9.416 | 10.620 | 11.871 | 13.103 | 15.362 | 18.118 | 22.340 | 26.484 | 26.375 | 30.549 |
| N° 4 | 7.079 | 7.310 | 7.905 | 8.393 | 9.301 | 10.473 | 12.217 | 13.567 | 15.779 | 19.946 | 25.340 | 30.679 | 31.211 | 38.892 |
| N° 5 | 7.083 | 7.413 | 7.888 | 8.627 | 9.409 | 10.885 | 12.645 | 14.247 | 17.356 | 21.372 | 27.291 | 33.766 | 33.713 | 37.567 |
| N° 6 | 7.556 | 7.941 | 8.424 | 9.075 | 9.818 | 10.810 | 12.406 | 14.099 | 16.700 | 19.803 | 25.037 | 30.387 | 30.705 | 37.305 |
| N° 7 | 7.694 | 7.871 | 8.394 | 9.197 | 9.695 | 10.823 | 12.128 | 13.498 | 16.024 | 18.838 | 24.118 | 29.379 | 29.492 | 38.189 |
| N° 8 | 7.693 | 7.920 | 8.460 | 9.067 | 9.980 | 11.128 | 12.396 | 14.286 | 16.616 | 19.837 | 25.100 | 30.679 | 30.703 | 38.730 |
| N° 9 | 8.460 | 8.731 | 9.317 | 10.079 | 10.910 | 12.171 | 13.524 | 15.095 | 17.895 | 21.375 | 26.992 | 32.843 | 33.325 | 42.147 |
| N° 10 | 7.459 | 7.761 | 8.073 | 8.810 | 9.767 | 10.910 | 12.460 | 14.313 | 16.797 | 20.987 | 26.555 | 32.778 | 32.554 | 42.516 |
| N° 11 | 7.147 | 7.165 | 7.702 | 8.511 | 9.103 | 10.667 | 11.969 | 13.460 | 16.507 | 19.733 | 25.407 | 30.948 | 31.151 | 39.228 |
| N° 12 | 6.333 | 6.361 | 7.049 | 7.900 | 8.516 | 9.781 | 11.561 | 13.381 | 15.944 | 19.634 | 25.291 | 31.050 | 31.488 | 36.054 |
| N° 13 | 6.990 | 7.395 | 7.876 | 8.480 | 9.341 | 10.446 | 12.083 | 13.508 | 15.983 | 20.050 | 25.131 | 30.183 | 30.484 | 39.024 |
| N° 14 | 7.989 | 8.197 | 8.679 | 9.313 | 10.070 | 11.066 | 12.356 | 13.619 | 15.688 | 18.712 | 22.819 | 27.535 | 27.514 | 33.447 |
| N° 15 | 6.817 | 7.154 | 7.635 | 8.388 | 8.962 | 10.222 | 11.499 | 12.941 | 15.168 | 18.332 | 22.983 | 27.751 | 27.735 | 38.827 |
| N° 16 | 7.890 | 8.235 | 8.628 | 9.219 | 10.318 | 10.951 | 12.480 | 14.154 | 16.317 | 19.779 | 24.505 | 29.955 | 30.244 | 39.467 |
| N° 17 | 7.037 | 7.440 | 7.902 | 8.468 | 9.617 | 10.611 | 11.899 | 13.782 | 16.404 | 20.168 | 25.632 | 31.648 | 31.642 | 36.854 |
| N° 18 | 6.790 | 7.193 | 7.597 | 8.163 | 9.018 | 9.798 | 11.670 | 13.057 | 15.141 | 18.491 | 23.041 | 28.474 | 28.421 | 41.546 |
| N° 19 | 8.074 | 8.472 | 9.016 | 9.659 | 10.569 | 11.770 | 13.062 | 14.432 | 17.393 | 20.632 | 25.950 | 31.545 | 31.490 | 41.269 |
| N° 20 | 7.831 | 8.237 | 8.827 | 9.420 | 10.266 | 11.653 | 13.133 | 14.754 | 17.111 | 21.289 | 26.316 | 32.254 | 32.400 | 43.069 |
| N° 21 | 6.186 | 6.477 | 6.931 | 7.644 | 8.639 | 9.850 | 11.667 | 13.458 | 16.149 | 19.851 | 25.866 | 31.970 | 32.089 | 37.339 |
| N° 22 | 8.250 | 8.499 | 9.018 | 9.829 | 10.668 | 12.021 | 13.342 | 15.205 | 17.741 | 21.219 | 26.284 | 32.324 | 32.578 | 40.547 |
| N° 23 | 8.500 | 8.589 | 9.223 | 9.890 | 10.404 | 11.608 | 12.780 | 14.415 | 16.211 | 19.251 | 23.621 | 28.702 | 28.612 | 34.903 |
| N° 24 | 6.881 | 7.057 | 7.863 | 8.396 | 9.054 | 10.468 | 12.183 | 13.718 | 16.549 | 20.236 | 25.816 | 32.307 | 32.071 | 42.252 |
| N° 25 | 8.086 | 8.270 | 9.066 | 9.500 | 10.311 | 11.648 | 13.116 | 14.677 | 17.013 | 20.801 | 25.875 | 31.490 | 31.190 | 37.952 |
| N° 26 | 6.995 | 7.298 | 7.736 | 8.433 | 9.229 | 10.188 | 11.766 | 13.275 | 15.255 | 18.640 | 22.843 | 27.380 | 27.638 | 32.504 |
| N° 27 | 7.923 | 8.262 | 8.728 | 9.142 | 10.064 | 10.925 | 12.275 | 13.956 | 15.952 | 19.179 | 23.546 | 28.345 | 28.144 | 35.263 |
| N° 28 | 8.102 | 8.442 | 8.908 | 9.525 | 10.149 | 10.957 | 12.467 | 13.693 | 15.651 | 18.447 | 22.679 | 26.738 | 26.871 | 30.755 |
| N° 29 | 7.808 | 7.896 | 8.609 | 9.204 | 9.984 | 11.138 | 12.576 | 13.984 | 16.166 | 19.381 | 24.180 | 28.690 | 28.995 | 34.882 |
| N° 30 | 8.091 | 8.346 | 8.892 | 9.783 | 10.267 | 11.745 | 13.209 | 14.988 | 17.686 | 21.713 | 27.178 | 33.194 | 33.006 | 37.751 |
| N° 31 | 7.806 | 8.128 | 8.628 | 9.197 | 10.005 | 11.270 | 12.844 | 14.088 | 16.768 | 20.177 | 25.546 | 31.143 | 31.485 | 42.233 |

12. Ios

Ta=25°C; Vin=15V; IL=0mA; VO=10V



Ios . (mA)

Max = 55.0

| | 0.0 krad(Si) | 9.8 krad(Si) | 19.2 krad(Si) | 33.9 krad(Si) | 48.2 krad(Si) | 67.7 krad(Si) | 85.9 krad(Si) | 101.5 krad(Si) | 120.6 krad(Si) | 144.3 krad(Si) | 173.5 krad(Si) | 202.7 krad(Si) | 24h/25°C | 168h/100°C |
|------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|------------|
| N° 1 (Ref) | 25.386 | 25.232 | 25.095 | 25.036 | 25.097 | 25.187 | 25.346 | 25.373 | 25.317 | 25.236 | 25.187 | 25.102 | 25.191 | 25.217 |
| N° 2 | 25.389 | 25.153 | 24.878 | 24.775 | 24.693 | 24.605 | 24.595 | 24.424 | 24.317 | 24.219 | 23.859 | 23.667 | 23.751 | 23.783 |
| N° 3 | 25.712 | 25.489 | 25.377 | 25.211 | 25.179 | 25.085 | 25.144 | 25.140 | 24.953 | 24.945 | 24.557 | 24.569 | 24.622 | 24.666 |
| N° 4 | 25.237 | 24.897 | 24.632 | 24.446 | 24.331 | 24.163 | 24.020 | 23.800 | 23.496 | 23.243 | 22.663 | 22.159 | 22.209 | 22.366 |
| N° 5 | 25.405 | 25.115 | 24.867 | 24.674 | 24.549 | 24.463 | 24.351 | 24.241 | 23.944 | 23.781 | 23.270 | 22.965 | 23.029 | 23.213 |
| N° 6 | 25.382 | 25.096 | 24.874 | 24.576 | 24.545 | 24.503 | 24.402 | 24.242 | 23.965 | 23.862 | 23.453 | 23.088 | 23.136 | 23.058 |
| N° 7 | 25.619 | 25.311 | 25.063 | 24.833 | 24.777 | 24.678 | 24.600 | 24.484 | 24.256 | 24.080 | 23.682 | 23.375 | 23.414 | 23.424 |
| N° 8 | 25.311 | 25.040 | 24.774 | 24.576 | 24.463 | 24.352 | 24.199 | 24.066 | 23.822 | 23.614 | 23.168 | 22.780 | 22.784 | 22.899 |
| N° 9 | 25.255 | 24.890 | 24.657 | 24.394 | 24.266 | 24.053 | 23.885 | 23.701 | 23.328 | 23.014 | 22.405 | 21.858 | 21.876 | 21.999 |
| N° 10 | 25.215 | 24.781 | 24.619 | 24.334 | 24.171 | 23.981 | 23.743 | 23.529 | 23.078 | 22.741 | 22.094 | 21.518 | 21.498 | 21.553 |
| N° 11 | 25.168 | 24.788 | 24.528 | 24.277 | 24.124 | 23.950 | 23.774 | 23.581 | 23.158 | 22.882 | 22.249 | 21.681 | 21.686 | 21.909 |
| N° 12 | 25.492 | 25.143 | 24.905 | 24.650 | 24.612 | 24.492 | 24.415 | 24.251 | 23.958 | 23.794 | 23.375 | 23.032 | 23.095 | 23.299 |
| N° 13 | 25.207 | 24.858 | 24.518 | 24.261 | 24.140 | 23.905 | 23.743 | 23.549 | 23.177 | 22.797 | 22.190 | 21.577 | 21.643 | 21.791 |
| N° 14 | 25.722 | 25.474 | 25.263 | 25.145 | 25.081 | 24.959 | 25.020 | 24.972 | 24.833 | 24.734 | 24.507 | 24.367 | 24.419 | 24.475 |
| N° 15 | 24.521 | 24.296 | 24.023 | 23.898 | 23.793 | 23.670 | 23.608 | 23.506 | 23.259 | 23.091 | 22.764 | 22.514 | 22.532 | 22.882 |
| N° 16 | 25.465 | 25.104 | 24.934 | 24.736 | 24.599 | 24.496 | 24.295 | 24.214 | 23.928 | 23.667 | 23.243 | 22.911 | 22.921 | 22.922 |
| N° 17 | 25.299 | 24.907 | 24.661 | 24.424 | 24.227 | 23.996 | 23.869 | 23.664 | 23.252 | 22.909 | 22.301 | 21.732 | 21.735 | 21.938 |
| N° 18 | 24.883 | 24.539 | 24.355 | 24.164 | 24.017 | 23.871 | 23.755 | 23.612 | 23.352 | 23.098 | 22.674 | 22.291 | 22.255 | 22.286 |
| N° 19 | 25.459 | 25.056 | 24.775 | 24.549 | 24.394 | 24.203 | 23.988 | 23.833 | 23.421 | 23.084 | 22.535 | 22.043 | 22.035 | 21.979 |
| N° 20 | 25.184 | 24.745 | 24.419 | 24.123 | 23.861 | 23.552 | 23.239 | 22.875 | 22.367 | 21.731 | 20.966 | 20.307 | 20.297 | 20.190 |
| N° 21 | 25.422 | 25.160 | 24.890 | 24.702 | 24.562 | 24.448 | 24.359 | 24.230 | 23.908 | 23.688 | 23.282 | 22.913 | 22.951 | 23.133 |
| N° 22 | 25.240 | 24.921 | 24.622 | 24.423 | 24.257 | 24.133 | 23.986 | 23.790 | 23.510 | 23.185 | 22.679 | 22.194 | 22.246 | 22.420 |
| N° 23 | 25.598 | 25.300 | 25.024 | 24.911 | 24.818 | 24.774 | 24.774 | 24.686 | 24.503 | 24.359 | 24.158 | 23.901 | 23.980 | 24.030 |
| N° 24 | 25.100 | 24.730 | 24.408 | 24.106 | 23.912 | 23.687 | 23.464 | 23.133 | 22.732 | 22.184 | 21.463 | 20.834 | 20.874 | 20.935 |
| N° 25 | 25.660 | 25.351 | 25.024 | 24.886 | 24.760 | 24.640 | 24.582 | 24.486 | 24.239 | 23.966 | 23.650 | 23.323 | 23.366 | 23.521 |
| N° 26 | 25.489 | 25.214 | 24.970 | 24.831 | 24.704 | 24.730 | 24.729 | 24.582 | 24.394 | 24.288 | 24.019 | 23.848 | 23.861 | 23.949 |
| N° 27 | 25.512 | 25.234 | 24.942 | 24.856 | 24.764 | 24.733 | 24.753 | 24.610 | 24.401 | 24.298 | 24.061 | 23.885 | 23.928 | 23.984 |
| N° 28 | 25.871 | 25.601 | 25.291 | 25.234 | 25.167 | 25.201 | 25.161 | 25.097 | 24.941 | 24.849 | 24.595 | 24.534 | 24.589 | 24.638 |
| N° 29 | 24.667 | 24.402 | 24.141 | 23.952 | 23.860 | 23.724 | 23.647 | 23.530 | 23.274 | 23.094 | 22.763 | 22.457 | 22.524 | 22.617 |
| N° 30 | 25.688 | 25.399 | 25.055 | 24.905 | 24.747 | 24.715 | 24.618 | 24.475 | 24.277 | 24.027 | 23.706 | 23.385 | 23.415 | 23.526 |
| N° 31 | 25.155 | 24.822 | 24.473 | 24.252 | 24.017 | 23.791 | 23.570 | 23.324 | 22.920 | 22.480 | 21.795 | 21.172 | 21.202 | 21.053 |