Subsecretaría de Pesca y Acuicultura
Gobierno de Chile

División de Acuicultura

**Informe UAGPA Nº 53**
**Fecha: 24-04- 2017**

**Análisis de presencia de Banco Natural**

| Pert | profundidad de análisis | especie indicada en informe | Especie o grupo a evaluar | m² um (1) | m² um (2) | m² um (3) | m² Promedio | frecuencia de ocurrencia UM Con Rec/UM totales | % area muestreable | IPBAN | IPBANMax | Evaluación |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **213122246** | hasta 30 metros | | | | | | | | | | | **No se buceó** |

**Observaciones**: Considerando que el área posee una profundidad mayor a 30 metros, no se realizó buceo.

**EDUARDO ANDERSON GERMAIN**
Jefe Unidad Análisis y Gestión de Procesos de Acuicultura

PPA/ppa
C.I. (Subpesca) Nº1733/16.

SERNAPESCA
Ministerio de Economía, Fomento y Turismo
Gobierno de Chile

# Formulario de resultados de la evaluación directa de recursos hidrobiológico bentónicos

Presencia de Recursos ○ Profundidad ◉ Accidente Geográfico ○ Tipo de Fondo ○

| Solicitud N° | Solicitante |
|---|---|
| 213122246 | Juan Carlos Pinochet Pinto |

| Región | Comuna | Area o Localidad |
|---|---|---|
| XII | Natales | Peninsula Barros Arana - Brazo De Merida - Este Isla Lorca |

| Fecha | Hora Inicio | 13:45 | Embarcación | Explorador Patagonia II |
|---|---|---|---|---|
| 10-Nov-15 | Hora Término | 13:52 | CB | 3399 |

Carta: Shoa 10600 (Datum SAD69) Area: 00.20 Hás

Coordenadas Geográficas Carta Shoa 10600 :

| Vértice | Latitud | Longitud |
|---|---|---|
| A | 52° 11' 27.39" S | 72° 56' 20.66" O |
| B | 52° 11' 26.73" S | 72° 56' 18.56" O |
| C | 52° 11' 37.77" S | 72° 56' 07.17" O |
| D | 52° 11' 38.63" S | 72° 56' 09.68" O |

Observaciones (Anotar situaciones u observaciones que expliquen o refuercen la inspección realizada)

Superficie muestreable aprox. : - 0 - %

| Hora de la Medición | Ajuste de Marea (mt) | | Observ. | Ajustada | | Observ. | Ajustada |
|---|---|---|---|---|---|---|---|
| 13:45 | -0,1 | Prof. Máxima | 185,6 | 185,5 | Prof. Mínima | 138,8 | 138,7 |

INGRESADO
04 FEB 2016
1733
SERVICIO NACIONAL DE PESCA Y ACUICULTURA

Solicitud 213122246; Campaña 2-2015

SERNAPESCA
Ministerio de Economía, Fomento y Turismo
Gobierno de Chile

Posición geográfica de los extremos de las unidades de Muestreo (boyerines)

| | Latitud | Longuitud | Latitud | Longuitud |
|---|---|---|---|---|
| Transecta N°1 | | | | |
| Transecta N°2 | | | | |
| Transecta N°3 | | | | |
| Transecta N°4 | | | | |
| Transecta N°5 | | | | |
| Transecta N°6 | | | | |

Nombre Inspector Viviana Rosales Garcés

Firma Inspector

Nombre Capitán/~~Buzo~~

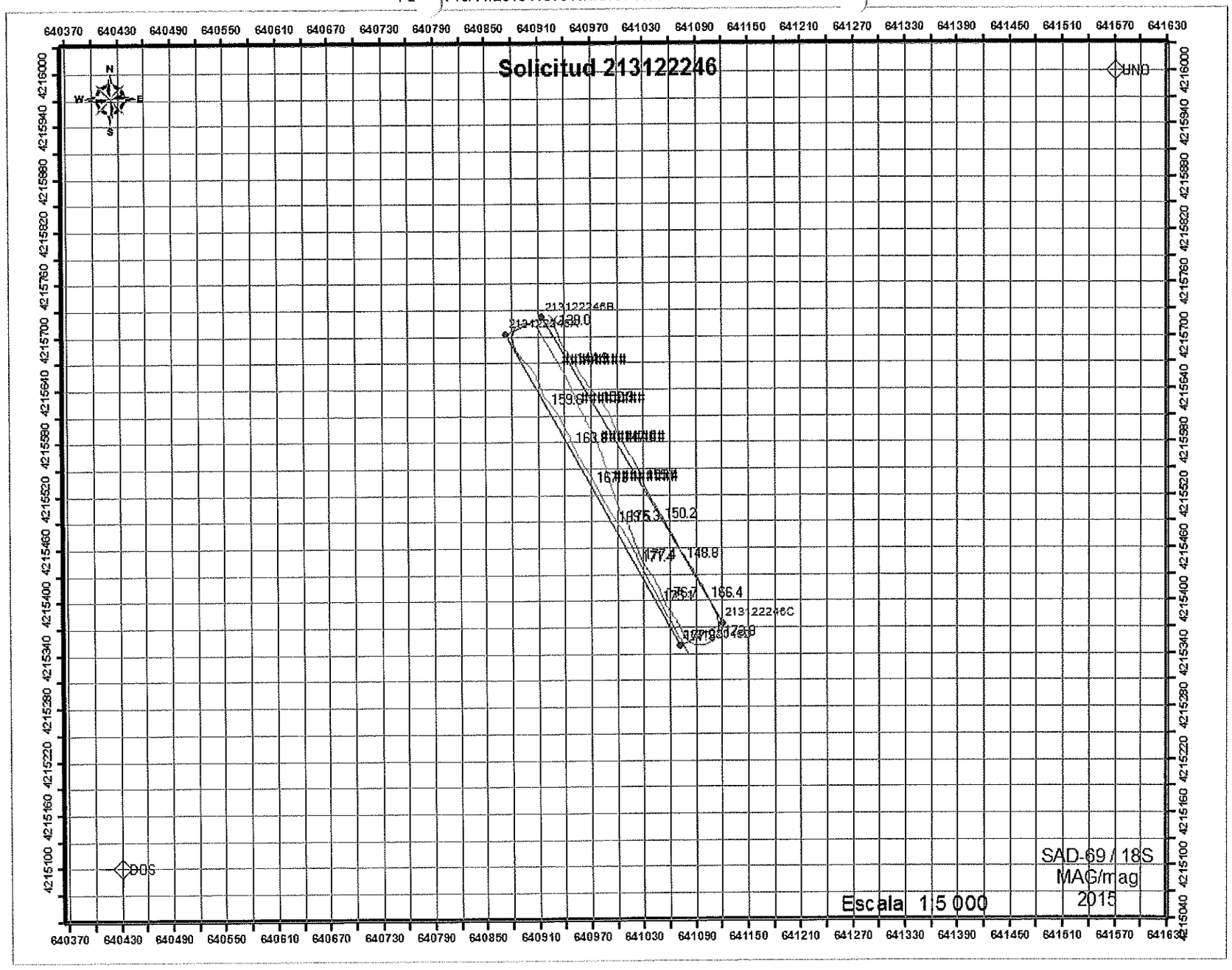
Firma Capitán/~~Buzo~~

Emanuel Tabilo G.
Cristián Díaz
Humberto Rosales G

Solicitud 213122246; Campaña 2-2015

PERT213122246

FE A 10/11/2015 HORA INICIO: 13:45 HORA TERMINO: 13:52



H SOFTWARE NAME & VERSION
I GPSU 5.11 01 REGISTERED to 'Exploradores Patagonia (Hector Diaz Diaz)'

| HUSO | Eastng | Northng | PROFUNDIDAI S | | PERT | DISTANCIA DE PTO. DE INICIO |
|---|---|---|---|---|---|---|
| 18F | 640927 | 4215720 | 139 | 1 | 212122246 | |
| 18F | 640927 | 4215717 | 138.9 | 0 | 0 | 3 |
| 18F | 640928 | 4215714 | 138.8 | 0 | 0 | 6 |
| 18F | 640929 | 4215711 | 139 | 0 | 0 | 9 |
| 18F | 640930 | 4215709 | 140.9 | 0 | 0 | 12 |
| 18F | 640930 | 4215706 | 140 | 0 | 0 | 14 |
| 18F | 640931 | 4215704 | 140.1 | 0 | 0 | 16 |
| 18F | 640932 | 4215702 | 141.6 | 0 | 0 | 19 |
| 18F | 640933 | 4215700 | 141.6 | 0 | 0 | 21 |
| 18F | 640934 | 4215697 | 141.4 | 0 | 0 | 23 |
| 18F | 640935 | 4215695 | 142.1 | 0 | 0 | 26 |
| 18F | 640936 | 4215692 | 143.1 | 0 | 0 | 29 |
| 18F | 640938 | 4215690 | 143.2 | 0 | 0 | 32 |
| 18F | 640939 | 4215687 | 142.6 | 0 | 0 | 35 |
| 18F | 640941 | 4215685 | 144.4 | 0 | 0 | 38 |
| 18F | 640942 | 4215683 | 144.3 | 0 | 0 | 41 |
| 18F | 640944 | 4215680 | 144.4 | 0 | 0 | 44 |
| 18F | 640945 | 4215678 | 143.9 | 0 | 0 | 46 |
| 18F | 640947 | 4215675 | 144.9 | 0 | 0 | 49 |
| 18F | 640949 | 4215673 | 145 | 0 | 0 | 52 |
| 18F | 640950 | 4215670 | 145.1 | 0 | 0 | 55 |
| 18F | 640952 | 4215668 | 144.5 | 0 | 0 | 58 |
| 18F | 640953 | 4215665 | 145.1 | 0 | 0 | 61 |
| 18F | 640955 | 4215663 | 149.2 | 0 | 0 | 64 |
| 18F | 640957 | 4215660 | 146.4 | 0 | 0 | 67 |
| 18F | 640958 | 4215658 | 146.9 | 0 | 0 | 70 |
| 18F | 640959 | 4215655 | 146.5 | 0 | 0 | 73 |
| 18F | 640961 | 4215652 | 149.2 | 0 | 0 | 76 |
| 18F | 640962 | 4215650 | 148.9 | 0 | 0 | 79 |
| 18F | 640964 | 4215647 | 149.2 | 0 | 0 | 82 |
| 18F | 640966 | 4215645 | 148.8 | 0 | 0 | 85 |
| 18F | 640967 | 4215643 | 148.5 | 0 | 0 | 88 |
| 18F | 640969 | 4215641 | 152.6 | 0 | 0 | 90 |
| 18F | 640971 | 4215638 | 152.8 | 0 | 0 | 93 |
| 18F | 640973 | 4215636 | 152.1 | 0 | 0 | 96 |
| 18F | 640975 | 4215634 | 150.1 | 0 | 0 | 99 |
| 18F | 640977 | 4215632 | 152.9 | 0 | 0 | 102 |
| 18F | 640979 | 4215630 | 150.6 | 0 | 0 | 105 |
| 18F | 640981 | 4215627 | 151 | 0 | 0 | 108 |
| 18F | 640982 | 4215625 | 156.1 | 0 | 0 | 111 |
| 18F | 640984 | 4215623 | 151.1 | 0 | 0 | 114 |
| 18F | 640986 | 4215620 | 151.1 | 0 | 0 | 117 |
| 18F | 640987 | 4215618 | 151.9 | 0 | 0 | 120 |
| 18F | 640989 | 4215615 | 151.3 | 0 | 0 | 123 |

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|---|---|---|---|---|---|---|
| 18F | 640990 | 4215613 | 151.4 | 0 | 0 | 126 |
| 18F | 640992 | 4215610 | 154 | 0 | 0 | 129 |
| 18F | 640993 | 4215607 | 150.3 | 0 | 0 | 132 |
| 18F | 640994 | 4215604 | 151.1 | 0 | 0 | 135 |
| 18F | 640995 | 4215601 | 149.9 | 0 | 0 | 138 |
| 18F | 640996 | 4215598 | 147.7 | 0 | 0 | 141 |
| 18F | 640998 | 4215596 | 147.8 | 0 | 0 | 144 |
| 18F | 640999 | 4215593 | 151.4 | 0 | 0 | 147 |
| 18F | 641000 | 4215590 | 153.3 | 0 | 0 | 150 |
| 18F | 641002 | 4215587 | 147 | 0 | 0 | 153 |
| 18F | 641003 | 4215584 | 151.2 | 0 | 0 | 156 |
| 18F | 641005 | 4215582 | 144.4 | 0 | 0 | 159 |
| 18F | 641006 | 4215579 | 144.4 | 0 | 0 | 162 |
| 18F | 641008 | 4215577 | 150.7 | 0 | 0 | 165 |
| 18F | 641009 | 4215574 | 150.5 | 0 | 0 | 168 |
| 18F | 641011 | 4215572 | 150.6 | 0 | 0 | 171 |
| 18F | 641012 | 4215570 | 151.5 | 0 | 0 | 174 |
| 18F | 641014 | 4215567 | 151.1 | 0 | 0 | 177 |
| 18F | 641015 | 4215565 | 151.6 | 0 | 0 | 180 |
| 18F | 641017 | 4215562 | 151.7 | 0 | 0 | 183 |
| 18F | 641018 | 4215560 | 152.6 | 0 | 0 | 185 |
| 18F | 641019 | 4215557 | 152.5 | 0 | 0 | 188 |
| 18F | 641021 | 4215554 | 153.1 | 0 | 0 | 191 |
| 18F | 641022 | 4215552 | 153.4 | 0 | 0 | 194 |
| 18F | 641024 | 4215549 | 154 | 0 | 0 | 198 |
| 18F | 641025 | 4215546 | 153.6 | 0 | 0 | 201 |
| 18F | 641026 | 4215543 | 155.4 | 0 | 0 | 204 |
| 18F | 641027 | 4215540 | 154.8 | 0 | 0 | 207 |
| 18F | 641029 | 4215537 | 154.7 | 0 | 0 | 210 |
| 18F | 641030 | 4215534 | 154.8 | 0 | 0 | 213 |
| 18F | 641031 | 4215531 | 155 | 0 | 0 | 217 |
| 18F | 641032 | 4215529 | 155.4 | 0 | 0 | 220 |
| 18F | 641033 | 4215526 | 156.6 | 0 | 0 | 223 |
| 18F | 641035 | 4215523 | 149.9 | 0 | 0 | 226 |
| 18F | 641036 | 4215520 | 149.6 | 0 | 0 | 229 |
| 18F | 641037 | 4215518 | 152.5 | 0 | 0 | 232 |
| 18F | 641039 | 4215515 | 151.8 | 0 | 0 | 234 |
| 18F | 641040 | 4215513 | 152.2 | 0 | 0 | 237 |
| 18F | 641042 | 4215510 | 152.5 | 0 | 0 | 240 |
| 18F | 641043 | 4215508 | 152.7 | 0 | 0 | 243 |
| 18F | 641045 | 4215505 | 153.5 | 0 | 0 | 246 |
| 18F | 641047 | 4215503 | 149.6 | 0 | 0 | 249 |
| 18F | 641048 | 4215500 | 150.2 | 0 | 0 | 252 |
| 18F | 641050 | 4215498 | 150 | 0 | 0 | 255 |
| 18F | 641051 | 4215495 | 149.8 | 0 | 0 | 258 |
| 18F | 641053 | 4215492 | 150.1 | 0 | 0 | 262 |
| 18F | 641054 | 4215489 | 151.1 | 0 | 0 | 264 |
| 18F | 641056 | 4215486 | 149.1 | 0 | 0 | 268 |
| 18F | 641057 | 4215483 | 149.3 | 0 | 0 | 271 |
| 18F | 641059 | 4215481 | 149.6 | 0 | 0 | 274 |

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|---|---|---|---|---|---|---|
| 18F | 641060 | 4215479 | 149.7 | 0 | 0 | 277 |
| 18F | 641062 | 4215476 | 149.4 | 0 | 0 | 280 |
| 18F | 641063 | 4215473 | 149.8 | 0 | 0 | 283 |
| 18F | 641065 | 4215471 | 148.4 | 0 | 0 | 286 |
| 18F | 641066 | 4215468 | 153.3 | 0 | 0 | 289 |
| 18F | 641068 | 4215465 | 147.7 | 0 | 0 | 292 |
| 18F | 641069 | 4215462 | 150.4 | 0 | 0 | 295 |
| 18F | 641070 | 4215460 | 150.6 | 0 | 0 | 298 |
| 18F | 641072 | 4215458 | 149.7 | 0 | 0 | 301 |
| 18F | 641073 | 4215455 | 148.8 | 0 | 0 | 304 |
| 18F | 641075 | 4215453 | 149.8 | 0 | 0 | 307 |
| 18F | 641076 | 4215451 | 149.8 | 0 | 0 | 309 |
| 18F | 641078 | 4215448 | 150.5 | 0 | 0 | 312 |
| 18F | 641079 | 4215446 | 150.2 | 0 | 0 | 315 |
| 18F | 641081 | 4215444 | 150.9 | 0 | 0 | 317 |
| 18F | 641082 | 4215442 | 151.9 | 0 | 0 | 320 |
| 18F | 641084 | 4215439 | 151.9 | 0 | 0 | 323 |
| 18F | 641085 | 4215436 | 154.5 | 0 | 0 | 326 |
| 18F | 641087 | 4215434 | 154.3 | 0 | 0 | 329 |
| 18F | 641088 | 4215431 | 155.3 | 0 | 0 | 332 |
| 18F | 641090 | 4215428 | 156.8 | 0 | 0 | 336 |
| 18F | 641092 | 4215425 | 155.4 | 0 | 0 | 339 |
| 18F | 641093 | 4215423 | 162.5 | 0 | 0 | 342 |
| 18F | 641095 | 4215420 | 160.9 | 0 | 0 | 345 |
| 18F | 641096 | 4215417 | 164.3 | 0 | 0 | 348 |
| 18F | 641097 | 4215415 | 164.3 | 0 | 0 | 351 |
| 18F | 641099 | 4215412 | 164 | 0 | 0 | 354 |
| 18F | 641100 | 4215409 | 166.4 | 0 | 0 | 357 |
| 18F | 641102 | 4215407 | 164.3 | 0 | 0 | 360 |
| 18F | 641103 | 4215404 | 167.2 | 0 | 0 | 363 |
| 18F | 641105 | 4215401 | 163.4 | 0 | 0 | 366 |
| 18F | 641106 | 4215399 | 163.4 | 0 | 0 | 369 |
| 18F | 641108 | 4215396 | 163.9 | 0 | 0 | 372 |
| 18F | 641109 | 4215394 | 165.7 | 0 | 0 | 375 |
| 18F | 641110 | 4215391 | 165 | 0 | 0 | 378 |
| 18F | 641112 | 4215388 | 165.3 | 0 | 0 | 381 |
| 18F | 641113 | 4215386 | 166.2 | 0 | 0 | 384 |
| 18F | 641114 | 4215383 | 166 | 0 | 0 | 387 |
| 18F | 641114 | 4215380 | 168.2 | 0 | 0 | 390 |
| 18F | 641115 | 4215377 | 167.3 | 0 | 0 | 392 |
| 18F | 641116 | 4215375 | 173.2 | 0 | 0 | 395 |
| 18F | 641116 | 4215372 | 174.1 | 0 | 0 | 398 |
| 18F | 641115 | 4215366 | 173.9 | 0 | 0 | 403 |
| 18F | 641115 | 4215364 | 173.3 | 0 | 0 | 406 |
| 18F | 641114 | 4215362 | 174.4 | 0 | 0 | 408 |
| 18F | 641112 | 4215360 | 173.4 | 0 | 0 | 411 |
| 18F | 641111 | 4215358 | 173.7 | 0 | 0 | 413 |
| 18F | 641109 | 4215356 | 173.5 | 0 | 0 | 415 |
| 18F | 641108 | 4215355 | 174.2 | 0 | 0 | 417 |
| 18F | 641106 | 4215353 | 174.2 | 0 | 0 | 419 |

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|---|---|---|---|---|---|---|
| 18F | 641105 | 4215352 | 174.5 | 0 | 0 | 421 |
| 18F | 641103 | 4215351 | 174.9 | 0 | 0 | 423 |
| 18F | 641101 | 4215351 | 175.2 | 0 | 0 | 426 |
| 18F | 641099 | 4215350 | 176.1 | 0 | 0 | 427 |
| 18F | 641097 | 4215350 | 176 | 0 | 0 | 429 |
| 18F | 641095 | 4215350 | 176.4 | 0 | 0 | 431 |
| 18F | 641094 | 4215350 | 176.9 | 0 | 0 | 433 |
| 18F | 641092 | 4215350 | 177.1 | 0 | 0 | 434 |
| 18F | 641090 | 4215350 | 177.4 | 0 | 0 | 436 |
| 18F | 641089 | 4215350 | 178.3 | 0 | 0 | 438 |
| 18F | 641087 | 4215351 | 178.7 | 0 | 0 | 439 |
| 18F | 641086 | 4215351 | 178.5 | 0 | 0 | 441 |
| 18F | 641084 | 4215352 | 178.6 | 0 | 0 | 443 |
| 18F | 641083 | 4215353 | 178.1 | 0 | 0 | 444 |
| 18F | 641081 | 4215354 | 179.4 | 0 | 0 | 446 |
| 18F | 641080 | 4215354 | 182.2 | 0 | 0 | 447 |
| 18F | 641079 | 4215355 | 182.5 | 0 | 0 | 449 |
| 18F | 641078 | 4215356 | 182.4 | 0 | 0 | 450 |
| 18F | 641077 | 4215358 | 182.1 | 0 | 0 | 452 |
| 18F | 641077 | 4215359 | 180.5 | 0 | 0 | 453 |
| 18F | 641076 | 4215361 | 182.5 | 0 | 0 | 455 |
| 18F | 641075 | 4215362 | 181.9 | 0 | 0 | 457 |
| 18F | 641074 | 4215363 | 183.2 | 0 | 0 | 458 |
| 18F | 641073 | 4215365 | 180.5 | 0 | 0 | 460 |
| 18F | 641073 | 4215367 | 183.6 | 0 | 0 | 462 |
| 18F | 641072 | 4215368 | 183.6 | 0 | 0 | 463 |
| 18F | 641072 | 4215369 | 185.6 | 0 | 0 | 465 |
| 18F | 641071 | 4215371 | 184.2 | 0 | 0 | 467 |
| 18F | 641070 | 4215373 | 184.5 | 0 | 0 | 469 |
| 18F | 641069 | 4215374 | 183.2 | 0 | 0 | 470 |
| 18F | 641068 | 4215376 | 184.2 | 0 | 0 | 472 |
| 18F | 641067 | 4215378 | 181.5 | 0 | 0 | 474 |
| 18F | 641066 | 4215380 | 181.5 | 0 | 0 | 476 |
| 18F | 641065 | 4215381 | 177.4 | 0 | 0 | 478 |
| 18F | 641064 | 4215383 | 185.6 | 0 | 0 | 480 |
| 18F | 641063 | 4215384 | 181.5 | 0 | 0 | 482 |
| 18F | 641062 | 4215386 | 177.4 | 0 | 0 | 484 |
| 18F | 641061 | 4215387 | 180.8 | 0 | 0 | 486 |
| 18F | 641059 | 4215389 | 177.4 | 0 | 0 | 488 |
| 18F | 641058 | 4215391 | 179.3 | 0 | 0 | 490 |
| 18F | 641057 | 4215392 | 179.3 | 0 | 0 | 492 |
| 18F | 641056 | 4215394 | 178.2 | 0 | 0 | 494 |
| 18F | 641055 | 4215396 | 178.1 | 0 | 0 | 496 |
| 18F | 641054 | 4215398 | 177.8 | 0 | 0 | 498 |
| 18F | 641053 | 4215400 | 178.8 | 0 | 0 | 500 |
| 18F | 641052 | 4215401 | 178.5 | 0 | 0 | 502 |
| 18F | 641051 | 4215403 | 178.7 | 0 | 0 | 505 |
| 18F | 641050 | 4215405 | 179 | 0 | 0 | 507 |
| 18F | 641050 | 4215407 | 179.7 | 0 | 0 | 509 |
| 18F | 641049 | 4215410 | 176.7 | 0 | 0 | 511 |

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|---|---|---|---|---|---|---|
| 18F | 641048 | 4215412 | 179.6 | 0 | 0 | 513 |
| 18F | 641047 | 4215414 | 177.2 | 0 | 0 | 516 |
| 18F | 641046 | 4215416 | 176 | 0 | 0 | 518 |
| 18F | 641045 | 4215418 | 177.5 | 0 | 0 | 520 |
| 18F | 641044 | 4215420 | 178.1 | 0 | 0 | 523 |
| 18F | 641043 | 4215422 | 178.1 | 0 | 0 | 525 |
| 18F | 641042 | 4215424 | 177.3 | 0 | 0 | 527 |
| 18F | 641040 | 4215426 | 176.7 | 0 | 0 | 530 |
| 18F | 641039 | 4215428 | 176.7 | 0 | 0 | 532 |
| 18F | 641038 | 4215429 | 176.2 | 0 | 0 | 534 |
| 18F | 641037 | 4215431 | 176.8 | 0 | 0 | 536 |
| 18F | 641035 | 4215433 | 176.7 | 0 | 0 | 539 |
| 18F | 641034 | 4215435 | 176.3 | 0 | 0 | 541 |
| 18F | 641033 | 4215437 | 176.5 | 0 | 0 | 543 |
| 18F | 641031 | 4215439 | 179.4 | 0 | 0 | 546 |
| 18F | 641030 | 4215441 | 175.3 | 0 | 0 | 548 |
| 18F | 641029 | 4215443 | 177.1 | 0 | 0 | 550 |
| 18F | 641028 | 4215445 | 177.9 | 0 | 0 | 553 |
| 18F | 641027 | 4215447 | 177 | 0 | 0 | 555 |
| 18F | 641026 | 4215450 | 176.7 | 0 | 0 | 557 |
| 18F | 641025 | 4215452 | 176.6 | 0 | 0 | 560 |
| 18F | 641024 | 4215454 | 177.4 | 0 | 0 | 562 |
| 18F | 641023 | 4215456 | 177.2 | 0 | 0 | 565 |
| 18F | 641022 | 4215459 | 175.3 | 0 | 0 | 567 |
| 18F | 641022 | 4215461 | 176.2 | 0 | 0 | 570 |
| 18F | 641021 | 4215463 | 177.4 | 0 | 0 | 572 |
| 18F | 641020 | 4215466 | 177.1 | 0 | 0 | 575 |
| 18F | 641019 | 4215468 | 176.5 | 0 | 0 | 577 |
| 18F | 641018 | 4215471 | 177 | 0 | 0 | 580 |
| 18F | 641017 | 4215473 | 176 | 0 | 0 | 582 |
| 18F | 641016 | 4215475 | 177.2 | 0 | 0 | 585 |
| 18F | 641016 | 4215478 | 175.6 | 0 | 0 | 587 |
| 18F | 641015 | 4215480 | 173.7 | 0 | 0 | 590 |
| 18F | 641014 | 4215482 | 173.9 | 0 | 0 | 592 |
| 18F | 641013 | 4215485 | 173.9 | 0 | 0 | 595 |
| 18F | 641011 | 4215487 | 176 | 0 | 0 | 597 |
| 18F | 641010 | 4215489 | 175.3 | 0 | 0 | 600 |
| 18F | 641009 | 4215491 | 173.7 | 0 | 0 | 602 |
| 18F | 641008 | 4215493 | 173.9 | 0 | 0 | 605 |
| 18F | 641007 | 4215495 | 174.5 | 0 | 0 | 607 |
| 18F | 641005 | 4215497 | 175.3 | 0 | 0 | 609 |
| 18F | 641004 | 4215499 | 173.2 | 0 | 0 | 612 |
| 18F | 641003 | 4215502 | 173.2 | 0 | 0 | 614 |
| 18F | 641002 | 4215504 | 173.4 | 0 | 0 | 617 |
| 18F | 641001 | 4215506 | 175.3 | 0 | 0 | 620 |
| 18F | 641000 | 4215509 | 172.6 | 0 | 0 | 622 |
| 18F | 640999 | 4215511 | 174.6 | 0 | 0 | 625 |
| 18F | 640998 | 4215514 | 172.6 | 0 | 0 | 627 |
| 18F | 640997 | 4215516 | 174.6 | 0 | 0 | 630 |
| 18F | 640996 | 4215518 | 174.6 | 0 | 0 | 632 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 18F | 640996 | 4215521 | 174.6 | 0 | 0 | 635 |
| 18F | 640995 | 4215523 | 174.6 | 0 | 0 | 637 |
| 18F | 640994 | 4215525 | 174.6 | 0 | 0 | 640 |
| 18F | 640993 | 4215528 | 174.6 | 0 | 0 | 642 |
| 18F | 640992 | 4215530 | 174.6 | 0 | 0 | 645 |
| 18F | 640992 | 4215533 | 174.6 | 0 | 0 | 647 |
| 18F | 640991 | 4215535 | 174.6 | 0 | 0 | 650 |
| 18F | 640990 | 4215537 | 174.6 | 0 | 0 | 653 |
| 18F | 640989 | 4215540 | 174.6 | 0 | 0 | 655 |
| 18F | 640989 | 4215543 | ---.- | 0 | 0 | 658 |
| 18F | 640988 | 4215545 | ---.- | 0 | 0 | 661 |
| 18F | 640987 | 4215548 | ---.- | 0 | 0 | 663 |
| 18F | 640986 | 4215551 | ---.- | 0 | 0 | 666 |
| 18F | 640986 | 4215553 | ---.- | 0 | 0 | 669 |
| 18F | 640985 | 4215556 | ---.- | 0 | 0 | 672 |
| 18F | 640984 | 4215558 | ---.- | 0 | 0 | 674 |
| 18F | 640983 | 4215561 | ---.- | 0 | 0 | 677 |
| 18F | 640982 | 4215563 | ---.- | 0 | 0 | 680 |
| 18F | 640982 | 4215566 | ---.- | 0 | 0 | 682 |
| 18F | 640981 | 4215568 | ---.- | 0 | 0 | 685 |
| 18F | 640980 | 4215570 | ---.- | 0 | 0 | 687 |
| 18F | 640979 | 4215573 | ---.- | 0 | 0 | 690 |
| 18F | 640978 | 4215575 | ---.- | 0 | 0 | 692 |
| 18F | 640977 | 4215578 | ---.- | 0 | 0 | 695 |
| 18F | 640976 | 4215580 | ---.- | 0 | 0 | 697 |
| 18F | 640975 | 4215582 | ---.- | 0 | 0 | 700 |
| 18F | 640974 | 4215585 | ---.- | 0 | 0 | 703 |
| 18F | 640973 | 4215587 | ---.- | 0 | 0 | 705 |
| 18F | 640972 | 4215590 | ---.- | 0 | 0 | 708 |
| 18F | 640971 | 4215592 | ---.- | 0 | 0 | 710 |
| 18F | 640970 | 4215594 | ---.- | 0 | 0 | 713 |
| 18F | 640969 | 4215597 | ---.- | 0 | 0 | 716 |
| 18F | 640967 | 4215599 | ---.- | 0 | 0 | 718 |
| 18F | 640966 | 4215601 | ---.- | 0 | 0 | 721 |
| 18F | 640965 | 4215603 | ---.- | 0 | 0 | 723 |
| 18F | 640964 | 4215605 | ---.- | 0 | 0 | 726 |
| 18F | 640962 | 4215608 | ---.- | 0 | 0 | 728 |
| 18F | 640961 | 4215610 | ---.- | 0 | 0 | 731 |
| 18F | 640960 | 4215612 | ---.- | 0 | 0 | 733 |
| 18F | 640959 | 4215614 | ---.- | 0 | 0 | 736 |
| 18F | 640958 | 4215616 | ---.- | 0 | 0 | 738 |
| 18F | 640957 | 4215619 | ---.- | 0 | 0 | 741 |
| 18F | 640955 | 4215621 | ---.- | 0 | 0 | 743 |
| 18F | 640954 | 4215623 | ---.- | 0 | 0 | 746 |
| 18F | 640953 | 4215626 | ---.- | 0 | 0 | 749 |
| 18F | 640952 | 4215628 | ---.- | 0 | 0 | 751 |
| 18F | 640952 | 4215631 | ---.- | 0 | 0 | 754 |
| 18F | 640951 | 4215633 | ---.- | 0 | 0 | 756 |
| 18F | 640950 | 4215636 | ---.- | 0 | 0 | 759 |
| 18F | 640948 | 4215638 | ---.- | 0 | 0 | 761 |

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|---|---|---|---|---|---|---|
| 18F | 640947 | 4215640 | ---.- | 0 | 0 | 764 |
| 18F | 640946 | 4215643 | ---.- | 0 | 0 | 767 |
| 18F | 640946 | 4215645 | ---.- | 0 | 0 | 769 |
| 18F | 640944 | 4215647 | ---.- | 0 | 0 | 772 |
| 18F | 640943 | 4215650 | ---.- | 0 | 0 | 775 |
| 18F | 640942 | 4215652 | ---.- | 0 | 0 | 777 |
| 18F | 640941 | 4215654 | ---.- | 0 | 0 | 780 |
| 18F | 640940 | 4215656 | ---.- | 0 | 0 | 782 |
| 18F | 640939 | 4215658 | ---.- | 0 | 0 | 784 |
| 18F | 640938 | 4215661 | ---.- | 0 | 0 | 787 |
| 18F | 640936 | 4215663 | ---.- | 0 | 0 | 789 |
| 18F | 640935 | 4215665 | ---.- | 0 | 0 | 792 |
| 18F | 640934 | 4215667 | ---.- | 0 | 0 | 795 |
| 18F | 640933 | 4215670 | ---.- | 0 | 0 | 797 |
| 18F | 640931 | 4215672 | ---.- | 0 | 0 | 800 |
| 18F | 640930 | 4215674 | ---.- | 0 | 0 | 802 |
| 18F | 640929 | 4215676 | ---.- | 0 | 0 | 805 |
| 18F | 640927 | 4215679 | ---.- | 0 | 0 | 807 |
| 18F | 640926 | 4215681 | ---.- | 0 | 0 | 810 |
| 18F | 640925 | 4215683 | ---.- | 0 | 0 | 813 |
| 18F | 640924 | 4215686 | ---.- | 0 | 0 | 815 |
| 18F | 640922 | 4215688 | ---.- | 0 | 0 | 818 |
| 18F | 640920 | 4215690 | ---.- | 0 | 0 | 821 |
| 18F | 640919 | 4215692 | ---.- | 0 | 0 | 823 |
| 18F | 640918 | 4215694 | ---.- | 0 | 0 | 826 |
| 18F | 640917 | 4215697 | ---.- | 0 | 0 | 828 |
| 18F | 640915 | 4215699 | ---.- | 0 | 0 | 831 |
| 18F | 640914 | 4215701 | ---.- | 0 | 0 | 834 |
| 18F | 640912 | 4215703 | ---.- | 0 | 0 | 836 |
| 18F | 640911 | 4215706 | ---.- | 0 | 0 | 839 |
| 18F | 640908 | 4215710 | ---.- | 0 | 0 | 844 |
| 18F | 640906 | 4215711 | ---.- | 0 | 0 | 847 |
| 18F | 640904 | 4215712 | ---.- | 0 | 0 | 849 |
| 18F | 640902 | 4215713 | ---.- | 0 | 0 | 851 |
| 18F | 640900 | 4215714 | ---.- | 0 | 0 | 854 |
| 18F | 640898 | 4215715 | ---.- | 0 | 0 | 856 |
| 18F | 640895 | 4215715 | ---.- | 0 | 0 | 859 |
| 18F | 640893 | 4215715 | ---.- | 0 | 0 | 861 |
| 18F | 640891 | 4215715 | ---.- | 0 | 0 | 863 |
| 18F | 640889 | 4215714 | ---.- | 0 | 0 | 865 |
| 18F | 640888 | 4215713 | ---.- | 0 | 0 | 866 |
| 18F | 640886 | 4215712 | 141.8 | 0 | 0 | 868 |
| 18F | 640885 | 4215711 | 141.6 | 0 | 0 | 870 |
| 18F | 640884 | 4215710 | 141.6 | 0 | 0 | 872 |
| 18F | 640883 | 4215708 | 141.9 | 0 | 0 | 873 |
| 18F | 640882 | 4215707 | 141.8 | 0 | 0 | 875 |
| 18F | 640881 | 4215705 | 142.1 | 0 | 0 | 877 |
| 18F | 640881 | 4215704 | 142.3 | 0 | 0 | 878 |
| 18F | 640880 | 4215702 | 142.3 | 0 | 0 | 880 |
| 18F | 640880 | 4215701 | 142.5 | 0 | 0 | 882 |

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|---|---|---|---|---|---|---|
| 18F | 640880 | 4215699 | 143 | 0 | 0 | 883 |
| 18F | 640880 | 4215697 | 143.4 | 0 | 0 | 885 |
| 18F | 640881 | 4215696 | 143.6 | 0 | 0 | 887 |
| 18F | 640881 | 4215694 | 144.1 | 0 | 0 | 888 |
| 18F | 640881 | 4215692 | 144.7 | 0 | 0 | 890 |
| 18F | 640882 | 4215690 | 145.6 | 0 | 0 | 892 |
| 18F | 640882 | 4215689 | 145.4 | 0 | 0 | 894 |
| 18F | 640883 | 4215687 | 145.7 | 0 | 0 | 896 |
| 18F | 640884 | 4215685 | 147.8 | 0 | 0 | 898 |
| 18F | 640885 | 4215684 | 146.9 | 0 | 0 | 900 |
| 18F | 640886 | 4215682 | 146.4 | 0 | 0 | 902 |
| 18F | 640887 | 4215680 | 147 | 0 | 0 | 904 |
| 18F | 640888 | 4215678 | 150.6 | 0 | 0 | 906 |
| 18F | 640890 | 4215677 | 149.7 | 0 | 0 | 908 |
| 18F | 640891 | 4215675 | 147.5 | 0 | 0 | 910 |
| 18F | 640893 | 4215673 | 149.3 | 0 | 0 | 913 |
| 18F | 640894 | 4215672 | 151.9 | 0 | 0 | 915 |
| 18F | 640896 | 4215670 | 147.8 | 0 | 0 | 917 |
| 18F | 640897 | 4215668 | 150.3 | 0 | 0 | 919 |
| 18F | 640899 | 4215667 | 147.8 | 0 | 0 | 922 |
| 18F | 640900 | 4215665 | 149 | 0 | 0 | 924 |
| 18F | 640902 | 4215663 | 150.5 | 0 | 0 | 926 |
| 18F | 640903 | 4215661 | 150.6 | 0 | 0 | 928 |
| 18F | 640904 | 4215659 | 147.8 | 0 | 0 | 931 |
| 18F | 640906 | 4215657 | 149.8 | 0 | 0 | 933 |
| 18F | 640907 | 4215655 | 152.6 | 0 | 0 | 936 |
| 18F | 640908 | 4215653 | 150.3 | 0 | 0 | 938 |
| 18F | 640909 | 4215651 | 154 | 0 | 0 | 941 |
| 18F | 640910 | 4215648 | 153 | 0 | 0 | 943 |
| 18F | 640911 | 4215646 | 152 | 0 | 0 | 945 |
| 18F | 640912 | 4215644 | 152.8 | 0 | 0 | 948 |
| 18F | 640913 | 4215642 | 153.6 | 0 | 0 | 950 |
| 18F | 640913 | 4215639 | 153.3 | 0 | 0 | 953 |
| 18F | 640915 | 4215637 | 156.1 | 0 | 0 | 955 |
| 18F | 640916 | 4215635 | 155.1 | 0 | 0 | 958 |
| 18F | 640917 | 4215632 | 159.5 | 0 | 0 | 960 |
| 18F | 640918 | 4215630 | 159.6 | 0 | 0 | 963 |
| 18F | 640920 | 4215628 | 159.6 | 0 | 0 | 966 |
| 18F | 640921 | 4215626 | 159.3 | 0 | 0 | 969 |
| 18F | 640923 | 4215624 | 161.1 | 0 | 0 | 971 |
| 18F | 640924 | 4215622 | 161.5 | 0 | 0 | 973 |
| 18F | 640926 | 4215619 | 161.5 | 0 | 0 | 976 |
| 18F | 640927 | 4215618 | 161.3 | 0 | 0 | 979 |
| 18F | 640929 | 4215615 | 162.8 | 0 | 0 | 982 |
| 18F | 640931 | 4215613 | 163.8 | 0 | 0 | 984 |
| 18F | 640932 | 4215611 | 161.8 | 0 | 0 | 987 |
| 18F | 640934 | 4215608 | 162.4 | 0 | 0 | 990 |
| 18F | 640935 | 4215606 | 162.4 | 0 | 0 | 993 |
| 18F | 640937 | 4215603 | 163.2 | 0 | 0 | 996 |
| 18F | 640938 | 4215601 | 163.1 | 0 | 0 | 999 |

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|---|---|---|---|---|---|---|
| 18F | 640939 | 4215598 | 163.1 | 0 | 0 | 1001 |
| 18F | 640941 | 4215596 | 163.5 | 0 | 0 | 1004 |
| 18F | 640942 | 4215593 | 163.5 | 0 | 0 | 1007 |
| 18F | 640943 | 4215590 | 163.5 | 0 | 0 | 1010 |
| 18F | 640944 | 4215588 | 163.6 | 0 | 0 | 1013 |
| 18F | 640945 | 4215586 | 163.8 | 0 | 0 | 1015 |
| 18F | 640946 | 4215583 | 164.2 | 0 | 0 | 1018 |
| 18F | 640947 | 4215581 | 164.9 | 0 | 0 | 1021 |
| 18F | 640948 | 4215578 | 164.8 | 0 | 0 | 1023 |
| 18F | 640949 | 4215575 | 165.5 | 0 | 0 | 1026 |
| 18F | 640951 | 4215573 | 165.3 | 0 | 0 | 1029 |
| 18F | 640952 | 4215570 | 165.5 | 0 | 0 | 1032 |
| 18F | 640953 | 4215568 | 166.1 | 0 | 0 | 1035 |
| 18F | 640954 | 4215565 | 166.6 | 0 | 0 | 1038 |
| 18F | 640956 | 4215562 | 166.6 | 0 | 0 | 1041 |
| 18F | 640957 | 4215560 | 166.7 | 0 | 0 | 1044 |
| 18F | 640959 | 4215558 | 166.5 | 0 | 0 | 1047 |
| 18F | 640961 | 4215555 | 166.8 | 0 | 0 | 1050 |
| 18F | 640962 | 4215552 | 166.6 | 0 | 0 | 1053 |
| 18F | 640964 | 4215550 | 166.7 | 0 | 0 | 1056 |
| 18F | 640965 | 4215547 | 167.6 | 0 | 0 | 1059 |
| 18F | 640967 | 4215545 | 167.7 | 0 | 0 | 1061 |
| 18F | 640969 | 4215543 | 167 | 0 | 0 | 1064 |
| 18F | 640970 | 4215540 | 167.3 | 0 | 0 | 1067 |
| 18F | 640972 | 4215537 | 167.8 | 0 | 0 | 1070 |
| 18F | 640973 | 4215535 | 166.4 | 0 | 0 | 1074 |
| 18F | 640975 | 4215532 | 167.1 | 0 | 0 | 1077 |
| 18F | 640976 | 4215529 | 166.8 | 0 | 0 | 1080 |
| 18F | 640978 | 4215527 | 168.9 | 0 | 0 | 1083 |
| 18F | 640979 | 4215524 | 167.6 | 0 | 0 | 1086 |
| 18F | 640981 | 4215521 | 167.7 | 0 | 0 | 1089 |
| 18F | 640982 | 4215519 | 168.2 | 0 | 0 | 1092 |
| 18F | 640983 | 4215516 | 168.7 | 0 | 0 | 1095 |
| 18F | 640985 | 4215513 | 168.7 | 0 | 0 | 1098 |
| 18F | 640986 | 4215511 | 169.8 | 0 | 0 | 1101 |
| 18F | 640988 | 4215508 | 168.5 | 0 | 0 | 1104 |
| 18F | 640989 | 4215505 | 168.5 | 0 | 0 | 1107 |
| 18F | 640991 | 4215503 | 168.9 | 0 | 0 | 1110 |
| 18F | 640992 | 4215500 | 169.1 | 0 | 0 | 1113 |
| 18F | 640994 | 4215498 | 169.5 | 0 | 0 | 1116 |
| 18F | 640995 | 4215496 | 169.5 | 0 | 0 | 1119 |
| 18F | 640997 | 4215493 | 169 | 0 | 0 | 1121 |
| 18F | 640998 | 4215491 | 171.5 | 0 | 0 | 1124 |
| 18F | 641000 | 4215488 | 170.9 | 0 | 0 | 1127 |
| 18F | 641002 | 4215486 | 169.5 | 0 | 0 | 1130 |
| 18F | 641003 | 4215483 | 169.8 | 0 | 0 | 1133 |
| 18F | 641005 | 4215481 | 171.9 | 0 | 0 | 1136 |
| 18F | 641007 | 4215479 | 171.2 | 0 | 0 | 1139 |
| 18F | 641008 | 4215476 | 170.7 | 0 | 0 | 1142 |
| 18F | 641010 | 4215473 | 171.6 | 0 | 0 | 1145 |

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|---|---|---|---|---|---|---|
| 18F | 641011 | 4215471 | 171.2 | 0 | 0 | 1148 |
| 18F | 641013 | 4215468 | 170.7 | 0 | 0 | 1151 |
| 18F | 641014 | 4215466 | 171.2 | 0 | 0 | 1154 |
| 18F | 641016 | 4215463 | 173.2 | 0 | 0 | 1157 |
| 18F | 641017 | 4215460 | 171.2 | 0 | 0 | 1160 |
| 18F | 641018 | 4215458 | 170.9 | 0 | 0 | 1163 |
| 18F | 641019 | 4215455 | 171.2 | 0 | 0 | 1165 |
| 18F | 641021 | 4215453 | 171.5 | 0 | 0 | 1168 |
| 18F | 641022 | 4215451 | 171.4 | 0 | 0 | 1171 |
| 18F | 641023 | 4215448 | 172.6 | 0 | 0 | 1174 |
| 18F | 641024 | 4215445 | 172.9 | 0 | 0 | 1177 |
| 18F | 641025 | 4215442 | 174.3 | 0 | 0 | 1180 |
| 18F | 641026 | 4215440 | 174 | 0 | 0 | 1182 |
| 18F | 641028 | 4215437 | 175.7 | 0 | 0 | 1185 |
| 18F | 641029 | 4215435 | 174.3 | 0 | 0 | 1188 |
| 18F | 641030 | 4215432 | 175.3 | 0 | 0 | 1191 |
| 18F | 641032 | 4215429 | 174.8 | 0 | 0 | 1194 |
| 18F | 641033 | 4215427 | 175.8 | 0 | 0 | 1197 |
| 18F | 641035 | 4215424 | 176.7 | 0 | 0 | 1200 |
| 18F | 641036 | 4215421 | 176.6 | 0 | 0 | 1204 |
| 18F | 641038 | 4215418 | 176.6 | 0 | 0 | 1207 |
| 18F | 641039 | 4215416 | 175.8 | 0 | 0 | 1210 |
| 18F | 641041 | 4215413 | 175.9 | 0 | 0 | 1213 |
| 18F | 641042 | 4215411 | 176.2 | 0 | 0 | 1216 |
| 18F | 641044 | 4215408 | 174.6 | 0 | 0 | 1219 |
| 18F | 641045 | 4215406 | 175.1 | 0 | 0 | 1221 |
| 18F | 641047 | 4215403 | 175 | 0 | 0 | 1224 |
| 18F | 641048 | 4215401 | 176.5 | 0 | 0 | 1227 |
| 18F | 641049 | 4215398 | 176.1 | 0 | 0 | 1230 |
| 18F | 641051 | 4215395 | 177.4 | 0 | 0 | 1233 |
| 18F | 641052 | 4215393 | 177.9 | 0 | 0 | 1236 |
| 18F | 641054 | 4215390 | 178.2 | 0 | 0 | 1239 |
| 18F | 641055 | 4215387 | 176 | 0 | 0 | 1242 |
| 18F | 641056 | 4215385 | 176.8 | 0 | 0 | 1245 |
| 18F | 641058 | 4215382 | 176.9 | 0 | 0 | 1248 |
| 18F | 641059 | 4215379 | 176.9 | 0 | 0 | 1251 |
| 18F | 641061 | 4215377 | 178 | 0 | 0 | 1254 |
| 18F | 641062 | 4215374 | 177 | 0 | 0 | 1257 |
| 18F | 641064 | 4215372 | 177 | 0 | 0 | 1260 |
| 18F | 641065 | 4215369 | 177.3 | 0 | 0 | 1263 |
| 18F | 641067 | 4215366 | 177.4 | 0 | 0 | 1266 |
| 18F | 641068 | 4215364 | 177.9 | 0 | 0 | 1269 |
| 18F | 641069 | 4215361 | 177.9 | 0 | 0 | 1272 |
| 18F | 641071 | 4215358 | 178.2 | 0 | 0 | 1275 |
| 18F | 641072 | 4215356 | 180 | 0 | 0 | 1278 |
| 18F | 641074 | 4215353 | 179 | 0 | 0 | 1281 |
| 18F | 641075 | 4215351 | 180.5 | 0 | 0 | 1284 |
| 18F | 641076 | 4215348 | 181 | 0 | 0 | 1287 |
| 18F | 641078 | 4215345 | 178.7 | 0 | 0 | 1290 |
| 18F | 641080 | 4215343 | 181.5 | 0 | 0 | 1293 |

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|---|---|---|---|---|---|---|
| 18F | 641081 | 4215340 | 179.1 | 0 | 0 | 1296 |

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|---|---|
| PROF. MAX | 185.6 |
| PROF. MIN | 138.8 |