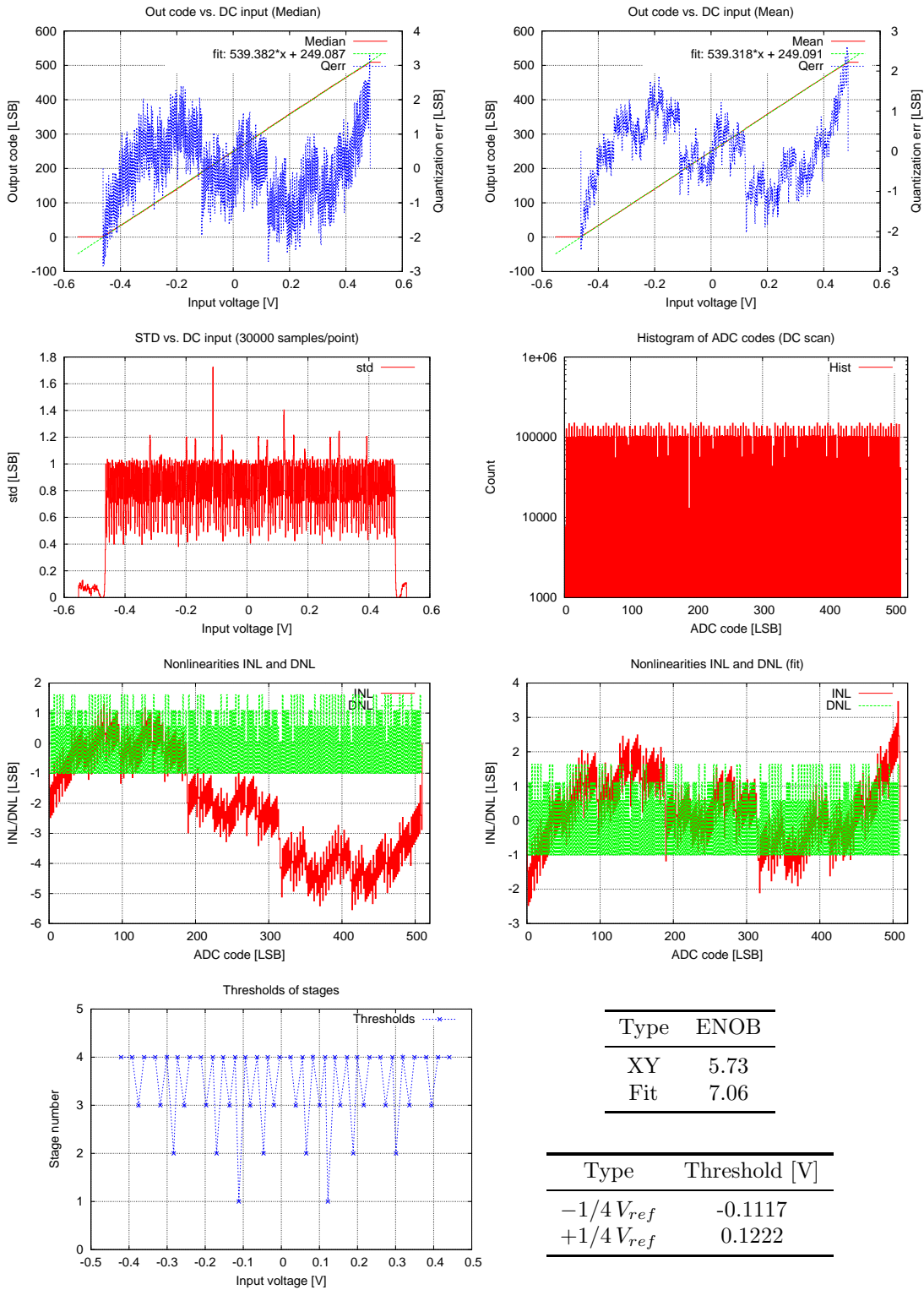


1 Simultaneous changes

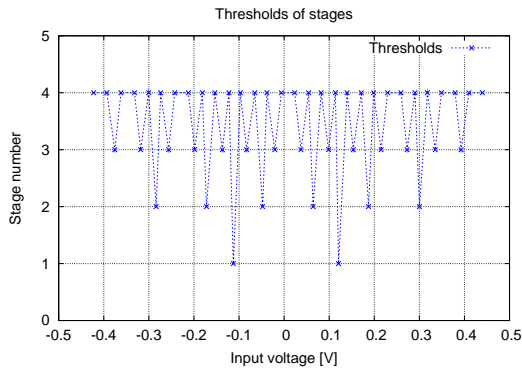
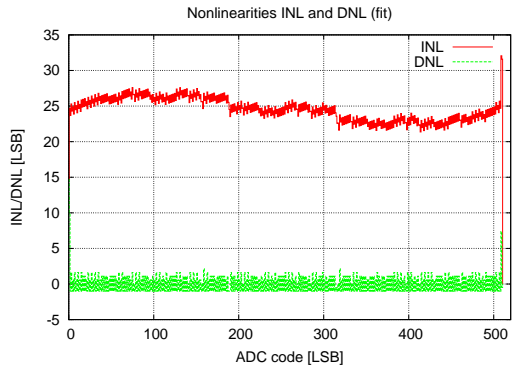
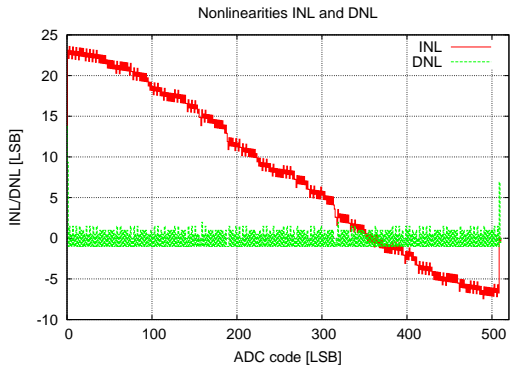
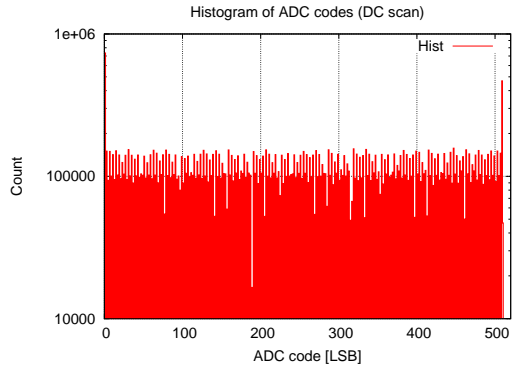
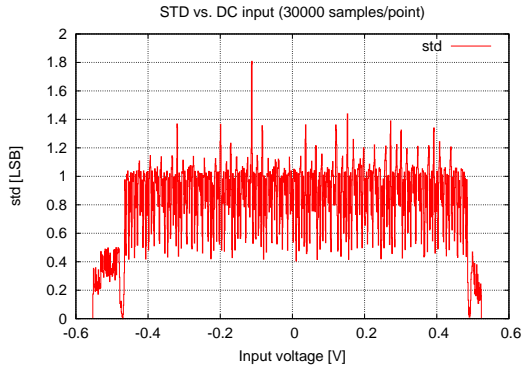
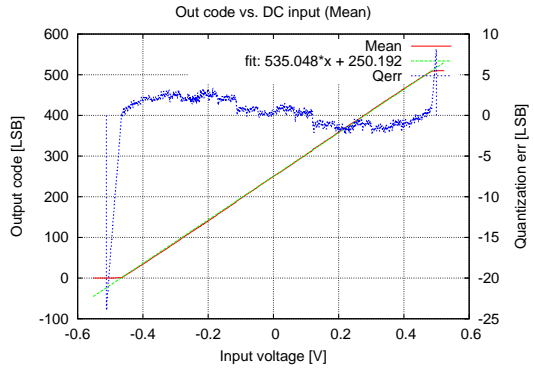
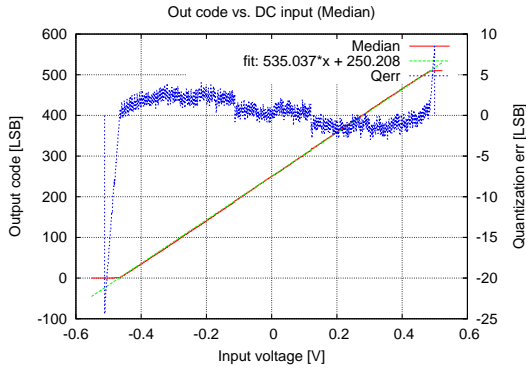
1.1 $I_0 = 70\mu\text{A}$ $I_1 = 45\mu\text{A}$

1.1.1 $f = 100\text{ kHz}$



Missing Code	Number of apperence	Missing Code	Number of apperence
1	7674	254	0
2	0	256	0
4	0	258	0
6	0	260	0
8	0	262	0
10	0	264	0
12	0	266	0
14	0	268	0
16	0	270	0
18	0	272	0
20	0	274	0
22	0	276	0
24	0	278	0
26	0	280	0
28	0	282	0
30	0	284	0
32	0	286	0
34	0	288	0
36	0	290	0
38	0	292	0
40	0	294	0
42	0	296	0
44	0	298	0
46	0	300	0
48	0	302	0
50	0	304	0
52	0	306	0
54	0	308	0
56	0	310	0
58	0	312	0
60	0	314	0
62	0	316	0
64	0	318	0
66	0	320	0
68	0	322	0
70	0	324	0
72	0	326	0
74	0	328	0
76	0	330	0
78	0	332	0
80	0	334	0
82	0	336	0
84	0	338	0
86	0	340	0
88	0	342	0
90	0	344	0
92	0	346	0
94	0	348	0
96	0	350	0
98	0	352	0
100	0	354	0
102	0	356	0
104	0	358	0
106	0	360	0
108	0	362	0
110	0	364	0
112	0	366	0
114	0	368	0
116	0	370	0
118	0	372	0
120	0	374	0
122	0	376	0
124	0	378	0

1.1.2 $f = 3 \text{ MHz}$



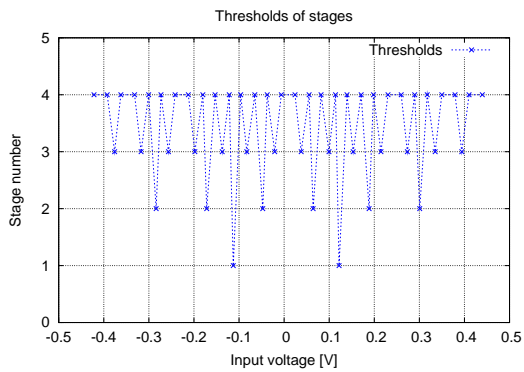
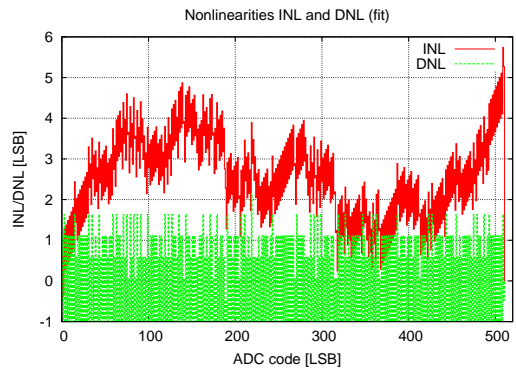
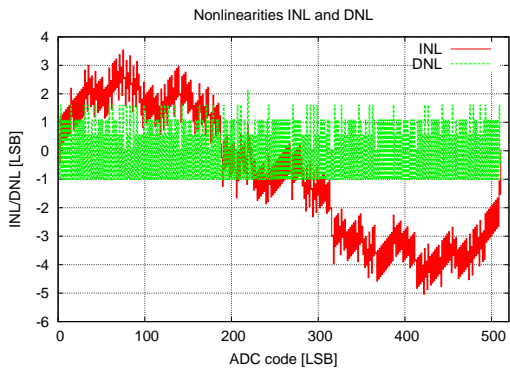
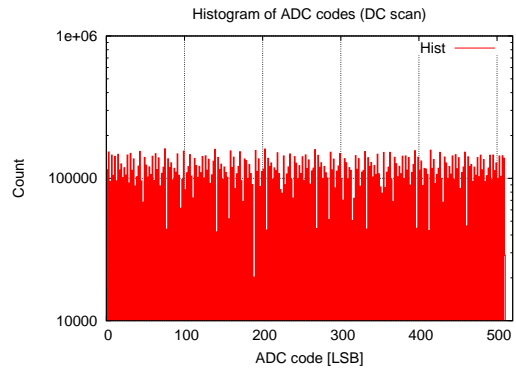
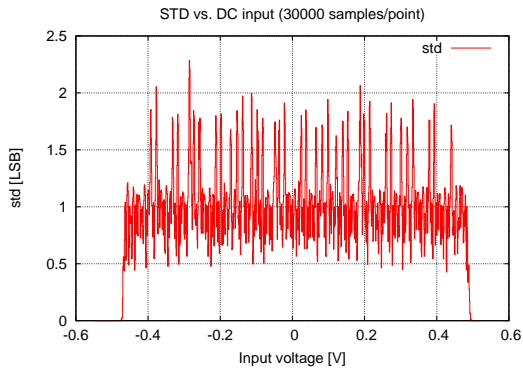
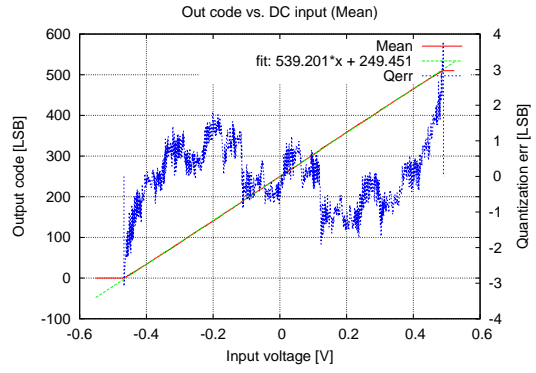
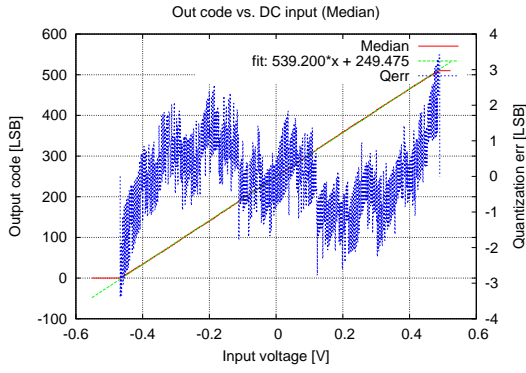
Type	ENOB
XY	3.54
Fit	2.58

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1127
$+1/4 V_{ref}$	0.1208

Missing Code	Number of apperence
2	0
4	0
6	0
8	0
10	0
12	0
14	0
16	0
18	0
20	0
22	0
24	0
26	0
28	0
30	0
32	0
34	0
36	0
38	0
40	0
42	0
44	0
46	0
48	0
50	0
52	0
54	0
56	0
58	0
60	0
62	0
64	0
66	0
68	0
70	0
72	0
74	0
76	0
78	0
80	0
82	0
84	0
86	0
88	0
90	0
92	0
94	0
96	0
98	0
100	0
102	0
104	0
106	0
108	0
110	0
112	0
114	0
116	0
118	0
120	0
122	0
124	0
126	0

Missing Code	Number of apperence
254	0
256	0
258	0
260	0
262	0
264	0
266	0
268	0
270	0
272	0
274	0
276	0
278	0
280	0
282	0
284	0
286	0
288	0
290	0
292	0
294	0
296	0
298	0
300	0
302	0
304	0
306	0
308	0
310	0
312	0
314	0
316	0
318	0
320	0
322	0
324	0
326	0
328	0
330	0
332	0
334	0
336	0
338	0
340	0
342	0
344	0
346	0
348	0
350	0
352	0
354	0
356	0
358	0
360	0
362	0
364	0
366	0
368	0
370	0
372	0
374	0
376	0
378	0

1.1.3 $f = 10$ MHz



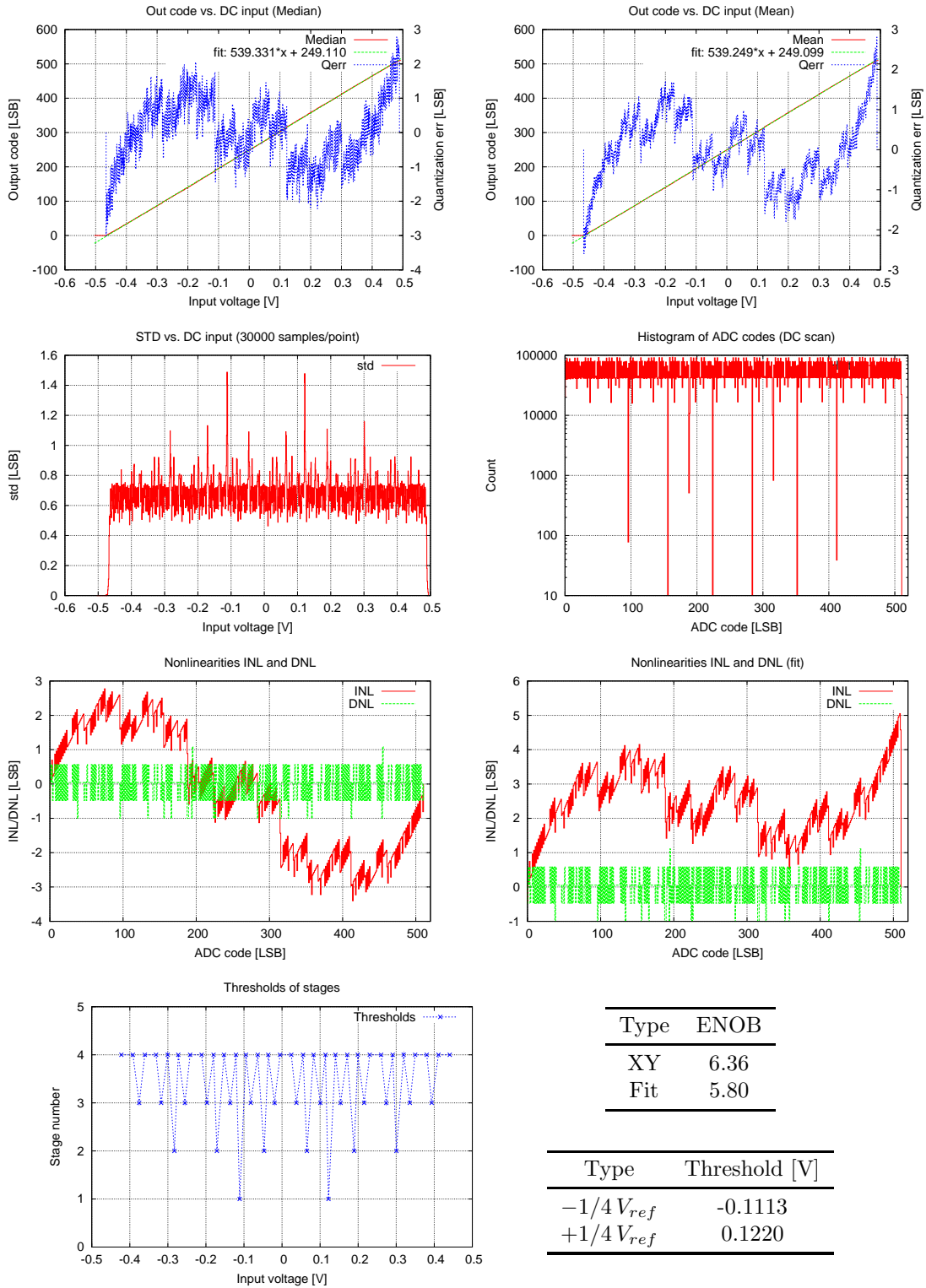
Type	ENOB
XY	5.87
Fit	5.73

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1129
$+1/4 V_{ref}$	0.1218

Missing Code	Number of apperence	Missing Code	Number of apperence
2	0	256	0
4	0	258	0
6	0	260	0
8	0	262	0
10	0	264	0
12	0	266	0
14	0	268	0
16	0	270	0
18	0	272	0
20	0	274	0
22	0	276	0
24	0	278	0
26	0	280	0
28	0	282	0
30	0	284	0
32	0	286	0
34	0	288	0
36	0	290	0
38	0	292	0
40	0	294	0
42	0	296	0
44	0	298	0
46	0	300	0
48	0	302	0
50	0	304	0
52	0	306	0
54	0	308	0
56	0	310	0
58	0	312	0
60	0	314	0
62	0	316	0
64	0	318	0
66	0	320	0
68	0	322	0
70	0	324	0
72	0	326	0
74	0	328	0
76	0	330	0
78	0	332	0
80	0	334	0
82	0	336	0
84	0	338	0
86	0	340	0
88	0	342	0
90	0	344	0
92	0	346	0
94	0	348	0
96	0	350	0
98	0	352	0
100	0	354	0
102	0	356	0
104	0	358	0
106	0	360	0
108	0	362	0
110	0	364	0
112	0	366	0
114	0	368	0
116	0	370	0
118	0	372	0
120	0	374	0
122	0	376	0
124	0	378	0
126	0	380	0

1.2 $I_0 = 107\mu\text{A}$ $I_1 = 64\mu\text{A}$

1.2.1 $f = 100\text{ kHz}$



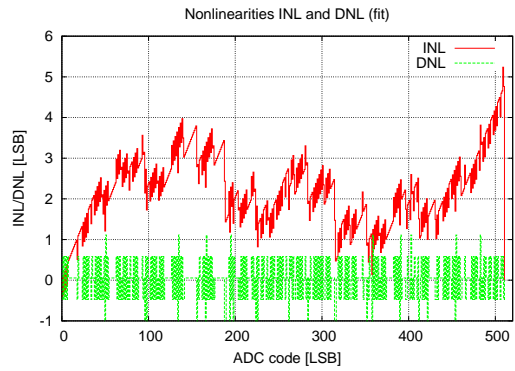
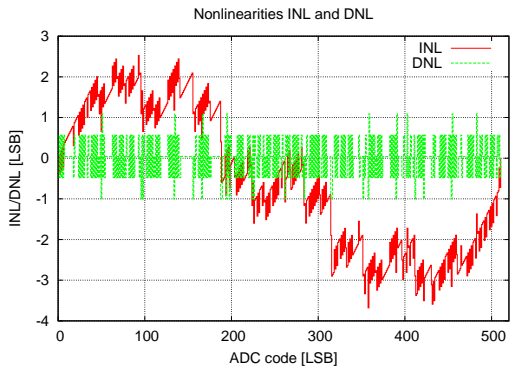
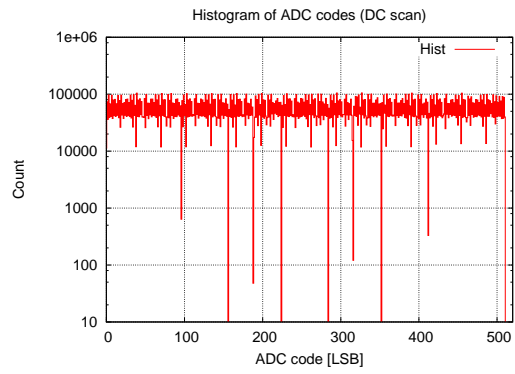
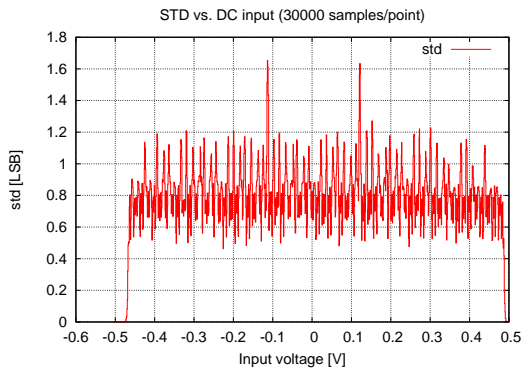
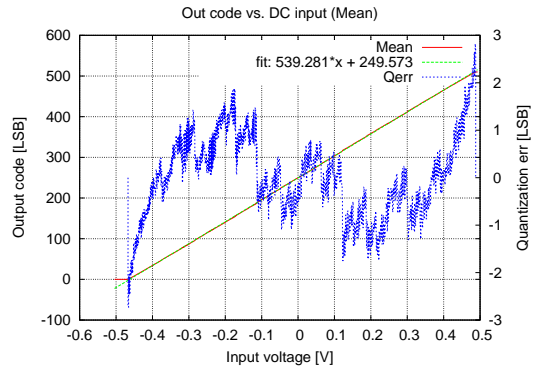
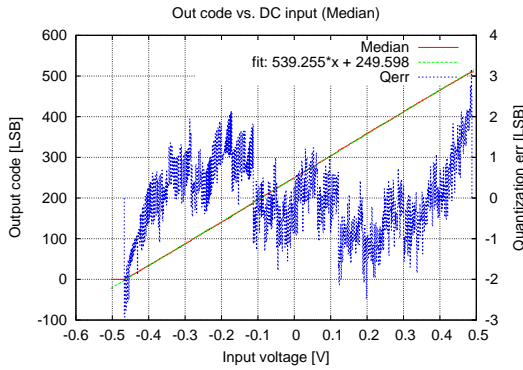
Type	ENOB
XY	6.36
Fit	5.80

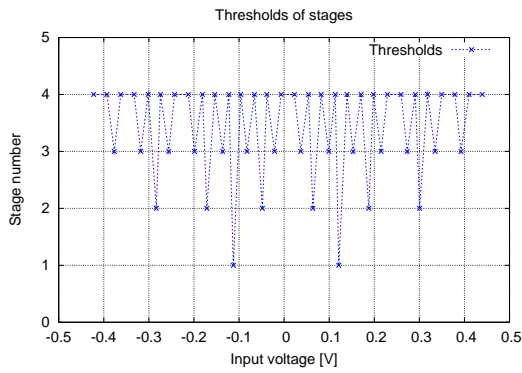
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1113
$+1/4 V_{ref}$	0.1220

Missing Code	Number of apperence
38	16369
96	78
134	16717
156	0
166	16456
188	512
189	10803
194	28772
224	0

Missing Code	Number of apperence
226	27417
284	0
315	10108
316	827
326	16861
352	0
358	16560
412	39
454	16272

1.2.2 $f = 3$ MHz





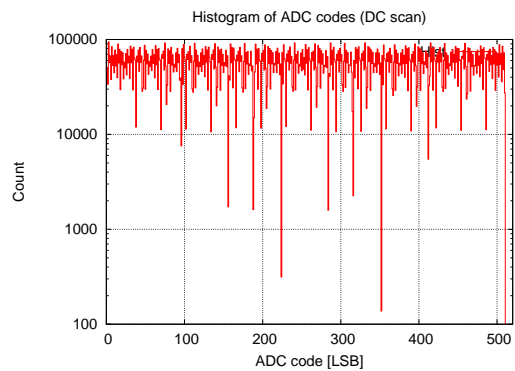
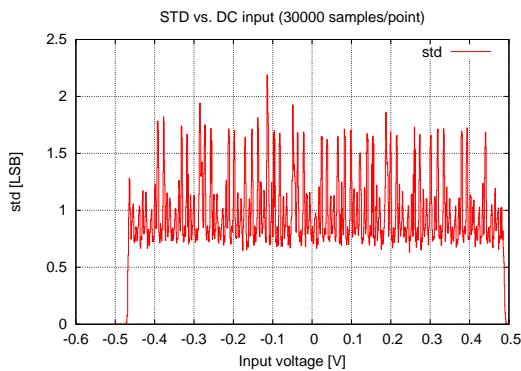
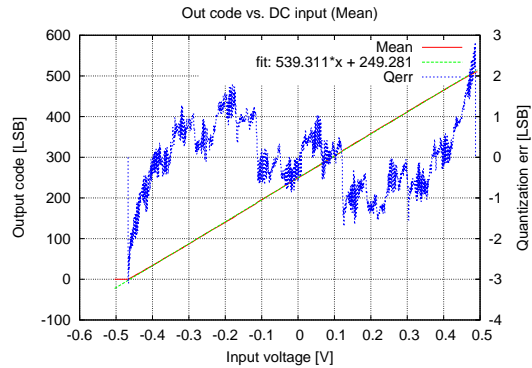
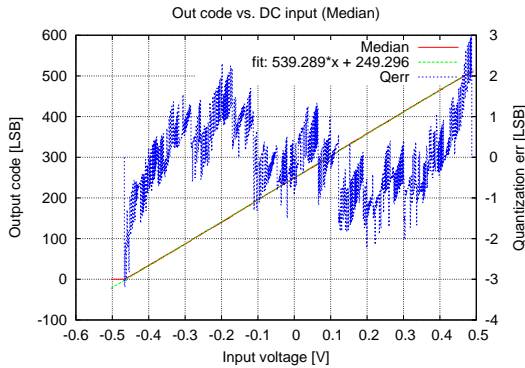
Type	ENOB
XY	6.33
Fit	5.96

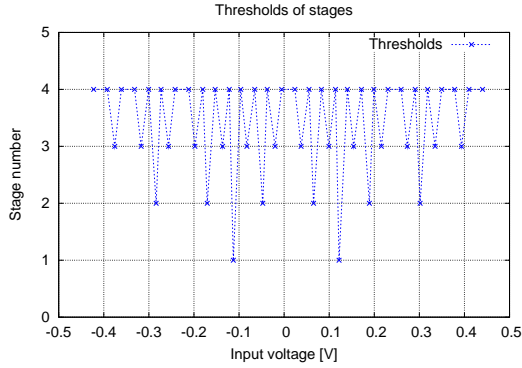
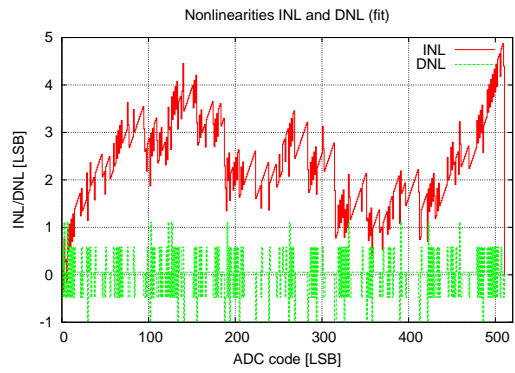
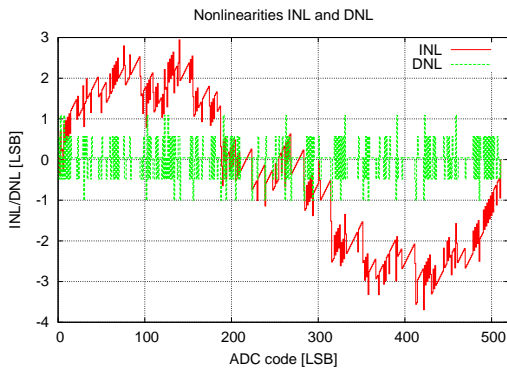
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1127
$+1/4 V_{ref}$	0.1212

Missing Code	Number of apperence
50	25874
96	637
98	26825
134	12500
156	0
166	11890
188	48
189	17430
194	28022
198	12628
224	0

Missing Code	Number of apperence
226	26103
262	11828
284	0
315	15398
316	121
352	0
358	12179
390	11988
412	331
422	13239
454	13532

1.2.3 $f = 10$ MHz





Type	ENOB
XY	6.32
Fit	5.87

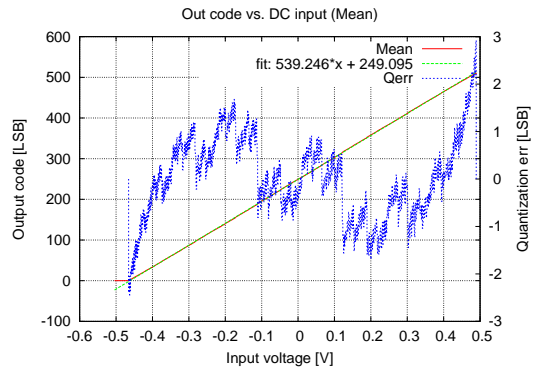
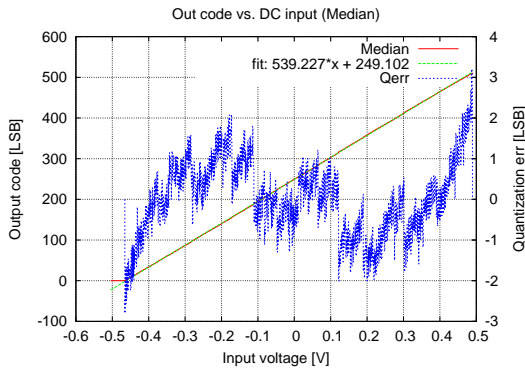
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1127
$+1/4 V_{ref}$	0.1218

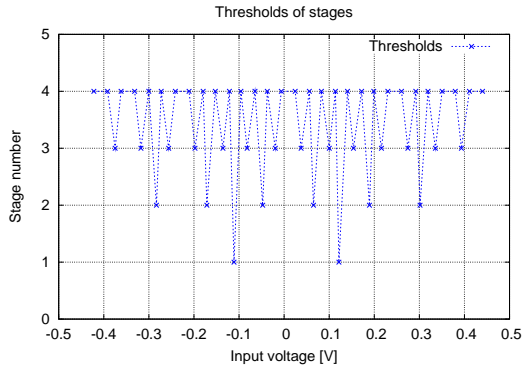
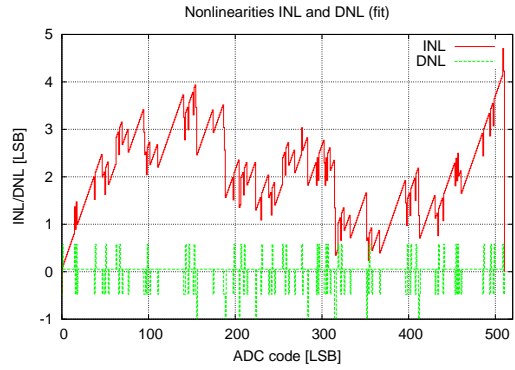
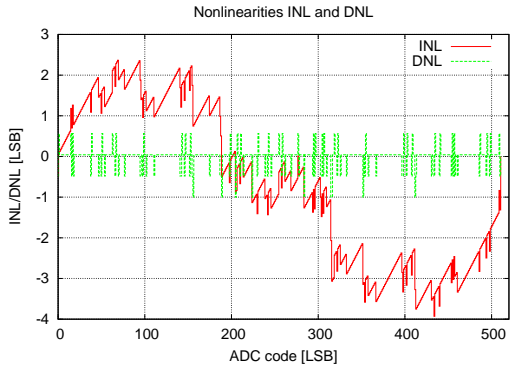
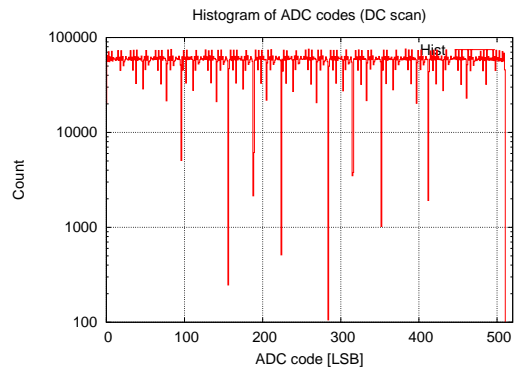
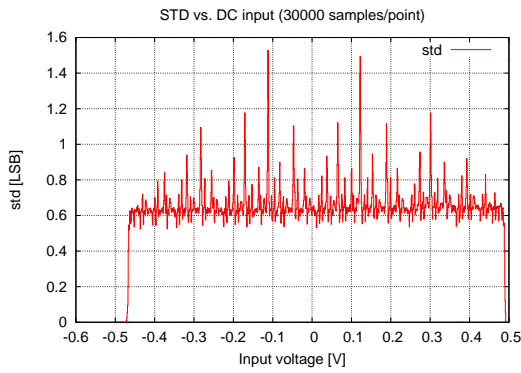
Missing Code	Number of apperence
30	38807
102	11383
134	10660
141	20013
156	1724
188	1616
194	29968
205	18741
224	315
239	28551
262	11094

Missing Code	Number of apperence
269	19333
284	1590
294	10687
315	17415
316	2257
326	10780
352	138
358	11445
390	10889
413	32749
422	11736
486	11242

1.3 $I_0 = 150\mu A$ $I_1 = 90\mu A$

1.3.1 $f = 100$ kHz





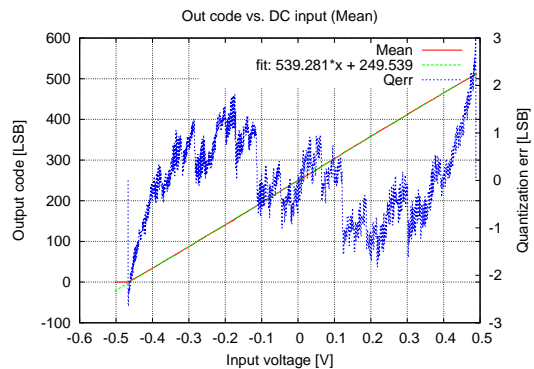
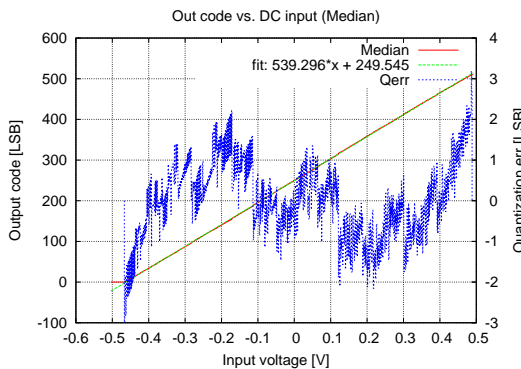
Type	ENOB
XY	6.18
Fit	6.02

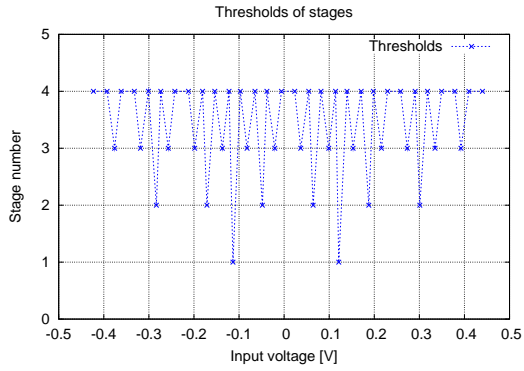
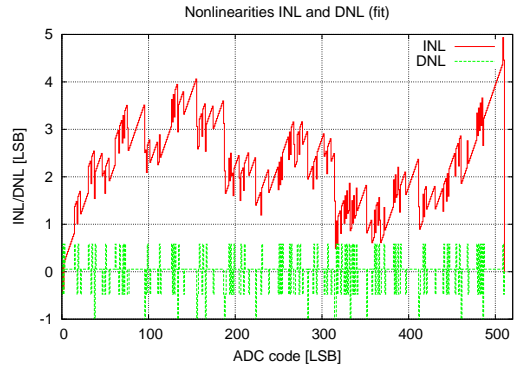
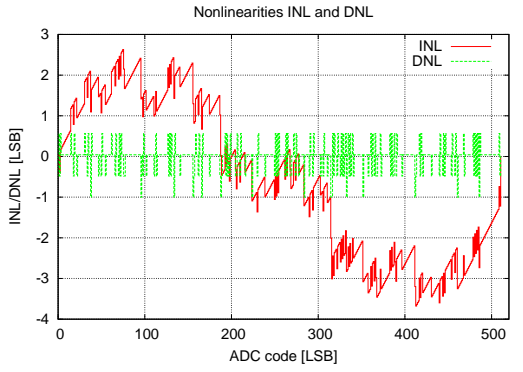
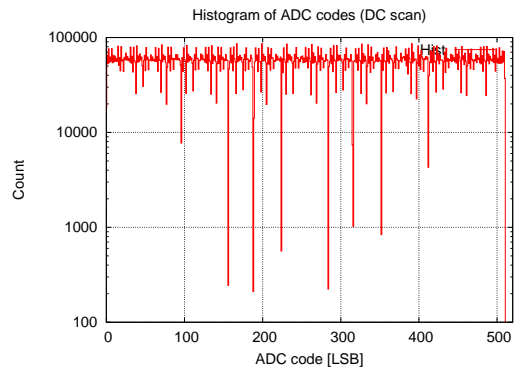
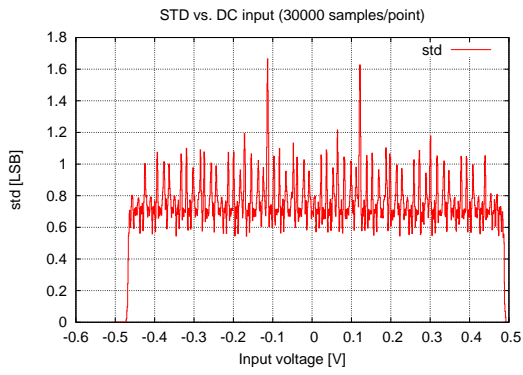
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1112
$+1/4 V_{ref}$	0.1216

Missing Code	Number of apperence
156	247
189	6141
205	21851
224	513

Missing Code	Number of apperence
284	106
315	3498
316	3783
352	1022
412	1917

1.3.2 $f = 3$ MHz





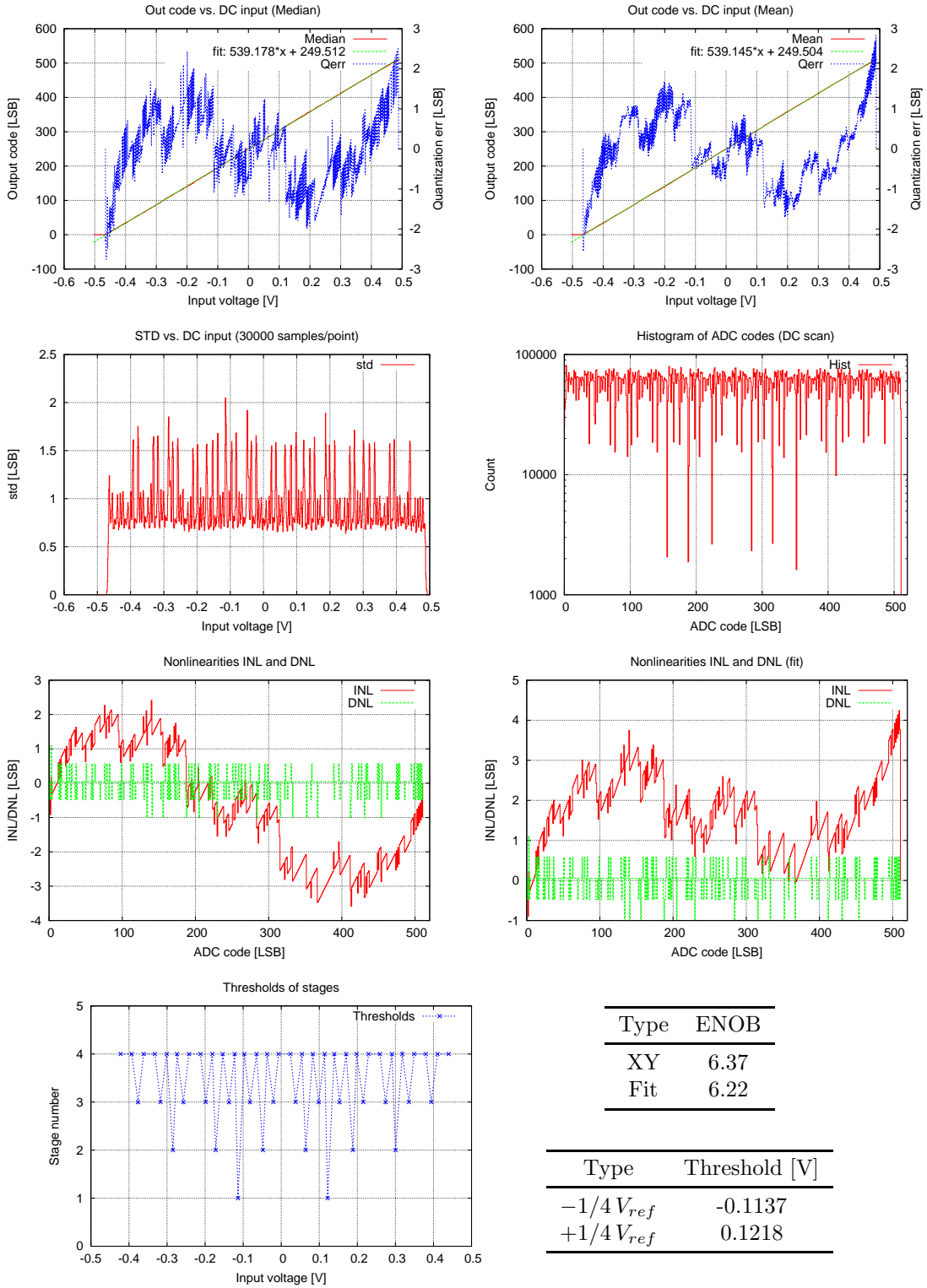
Type	ENOB
XY	6.22
Fit	5.91

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1135
$+1/4 V_{ref}$	0.1212

Missing Code	Number of apperence
38	25651
96	7734
134	25315
156	245
166	25685
188	211
224	563

Missing Code	Number of apperence
284	224
315	7396
316	1023
333	20017
352	839
412	4297
461	24431
486	24530

1.3.3 $f = 10$ MHz



Type	ENOB
XY	6.37
Fit	6.22

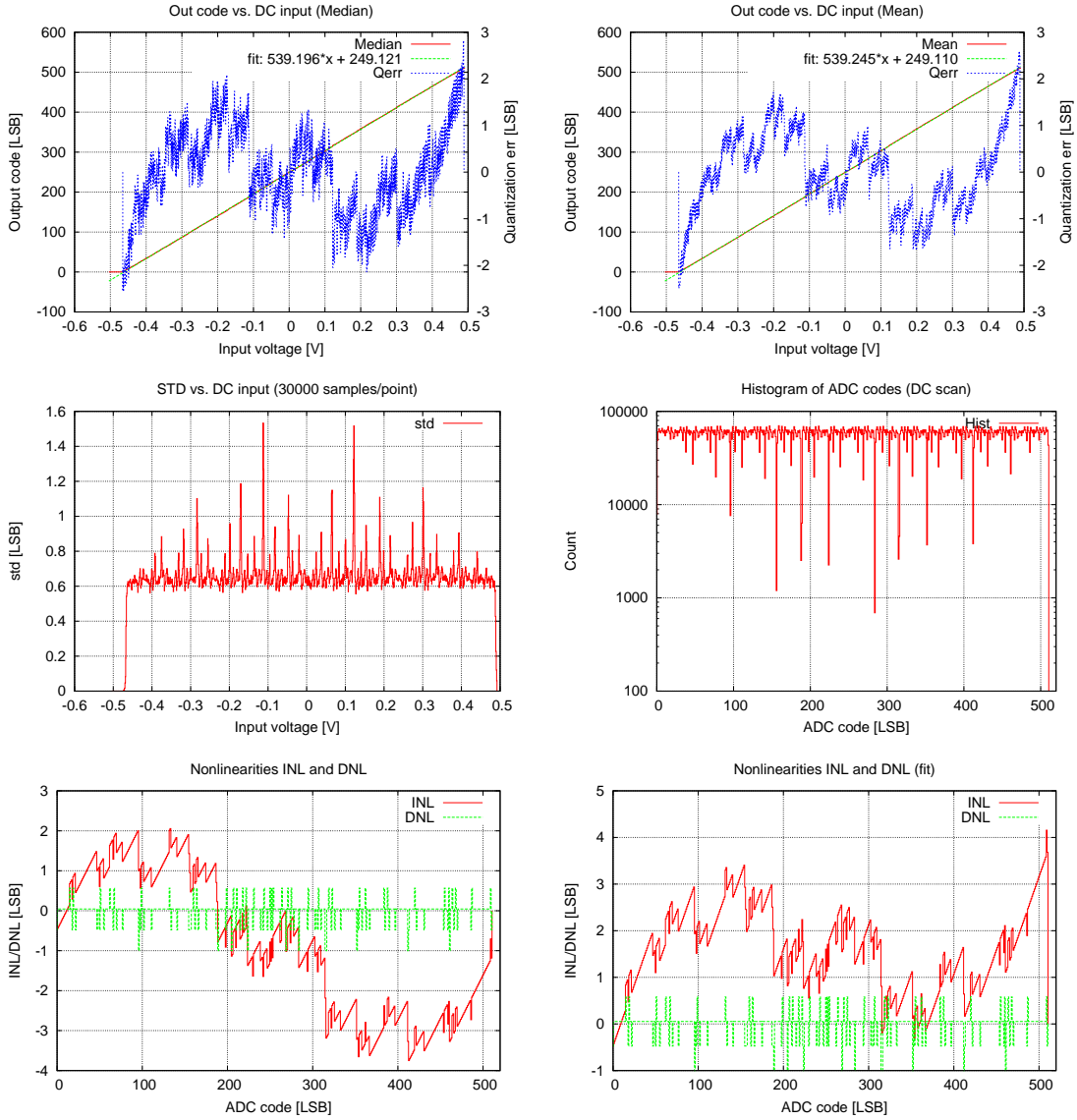
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1137
$+1/4 V_{ref}$	0.1218

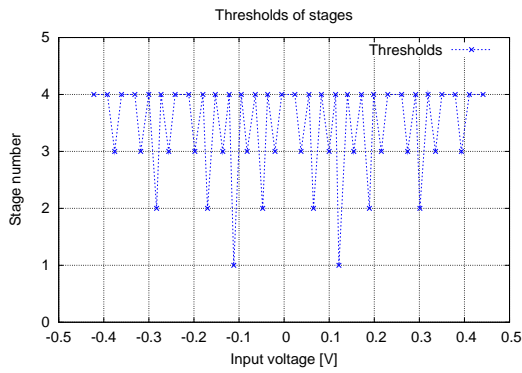
Missing Code	Number of apperence
134	18548
141	15404
156	2065
188	1877
205	14071
230	18788
284	2332

Missing Code	Number of apperence
316	2677
333	13855
352	1622
367	21445
412	9802
431	20730
454	18516

1.4 $I_0 = 210\mu\text{A}$ $I_1 = 128\mu\text{A}$

1.4.1 $f = 100\text{ kHz}$





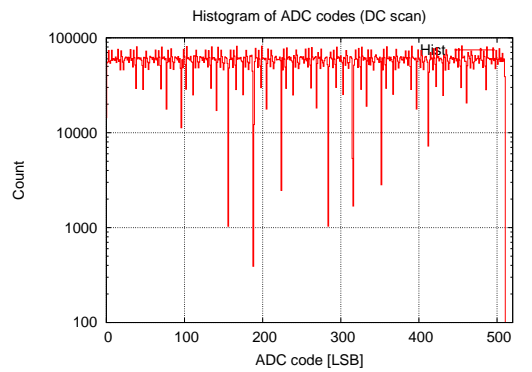
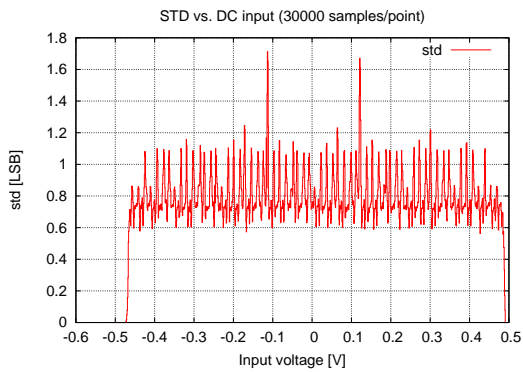
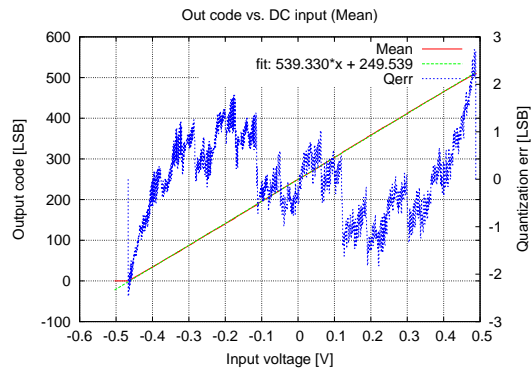
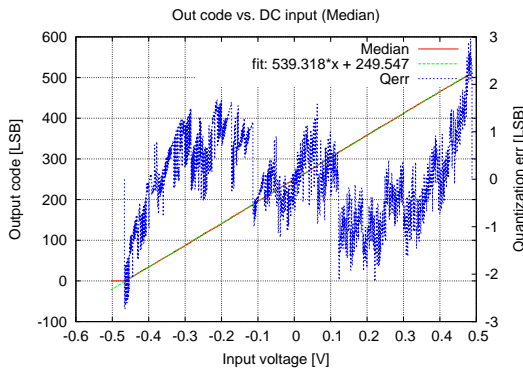
Type	ENOB
XY	6.25
Fit	6.32

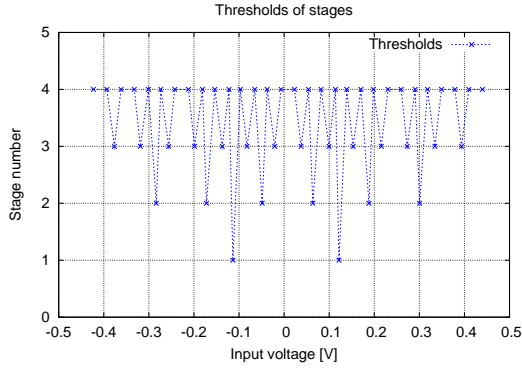
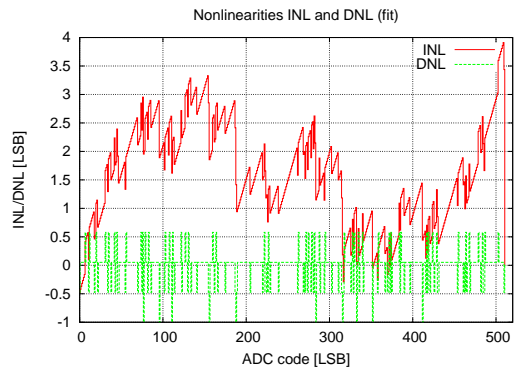
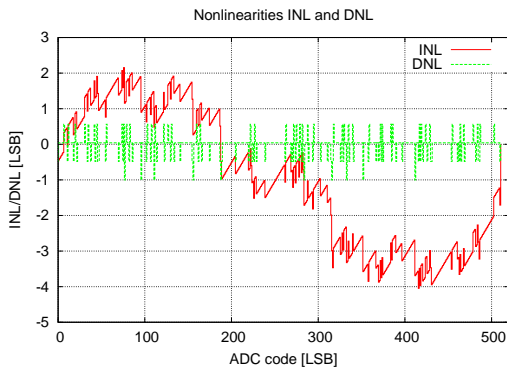
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1118
$+1/4 V_{ref}$	0.1215

Missing Code	Number of apperence
96	7625
189	6334
205	19690
224	2249
269	18366

Missing Code	Number of apperence
284	691
315	2600
316	4571
352	3701
412	3806
461	21399

1.4.2 $f = 3$ MHz





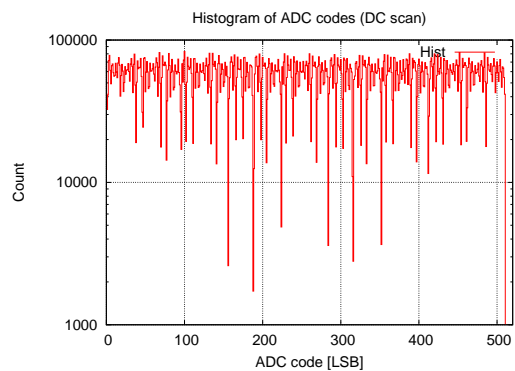
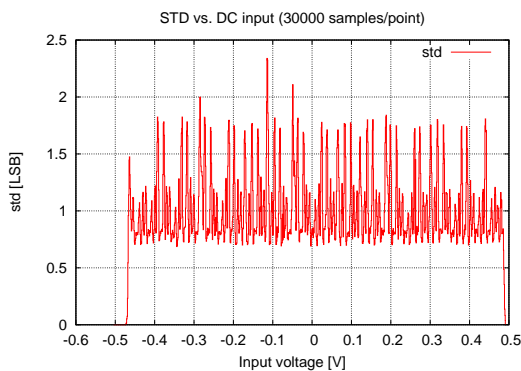
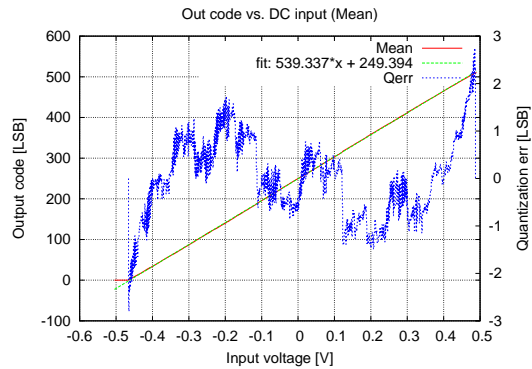
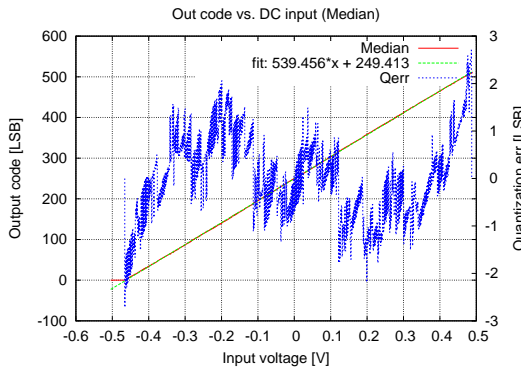
Type	ENOB
XY	6.11
Fit	6.32

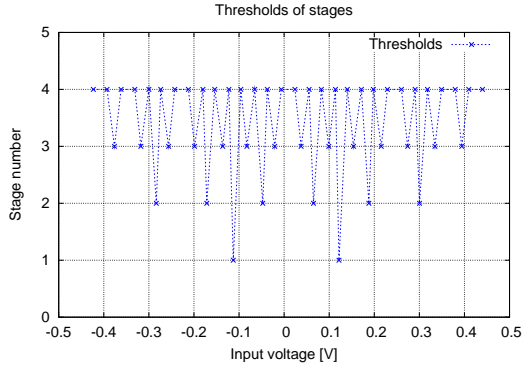
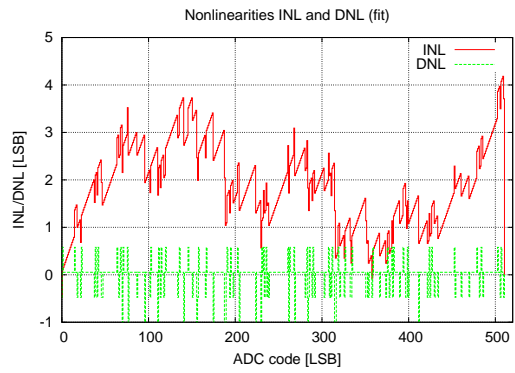
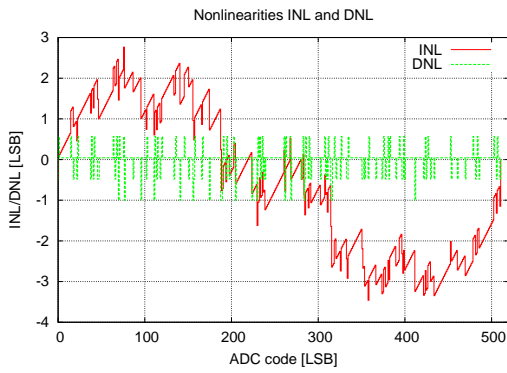
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1137
$+1/4 V_{ref}$	0.1217

Missing Code	Number of apperence
77	17713
96	11290
111	25009
156	1035
188	392

Missing Code	Number of apperence
284	1037
316	1687
333	18999
352	2829
412	7238

1.4.3 $f = 10$ MHz





Type	ENOB
XY	6.31
Fit	6.14

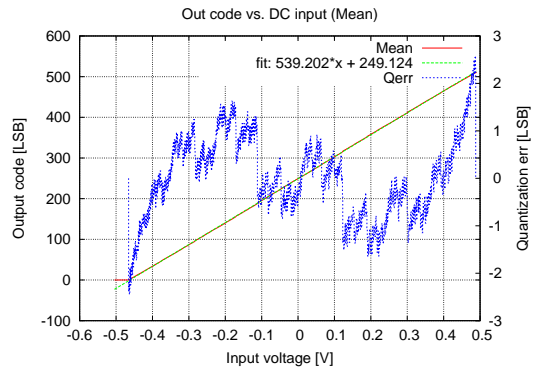
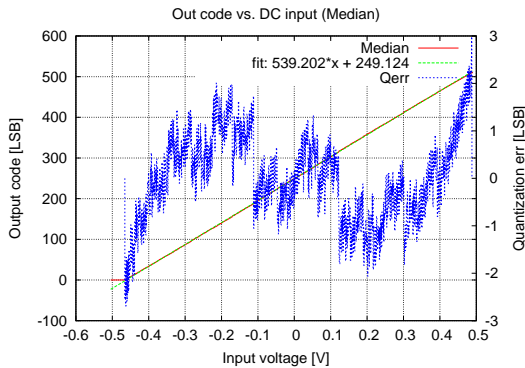
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1128
$+1/4 V_{ref}$	0.1217

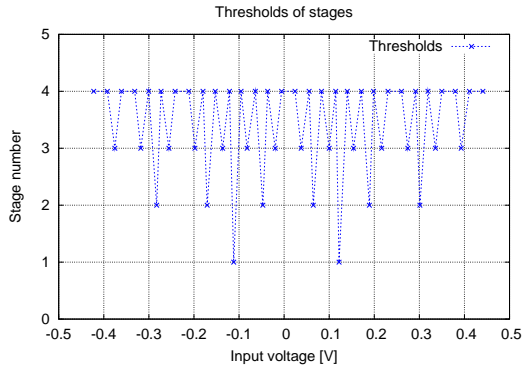
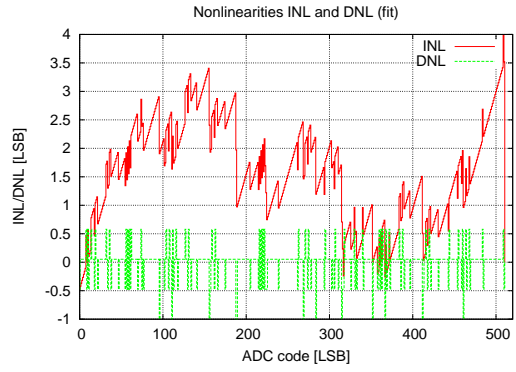
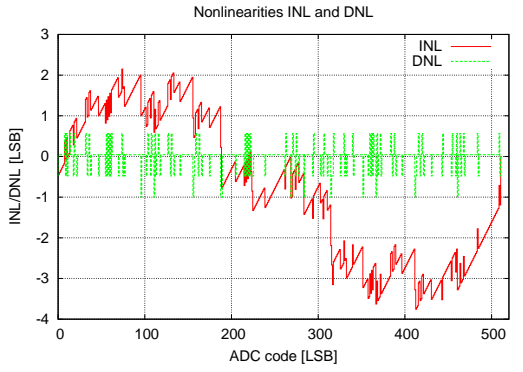
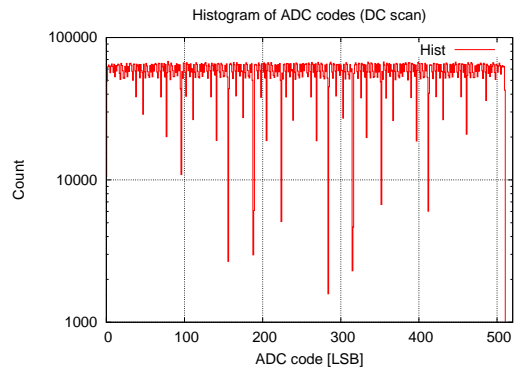
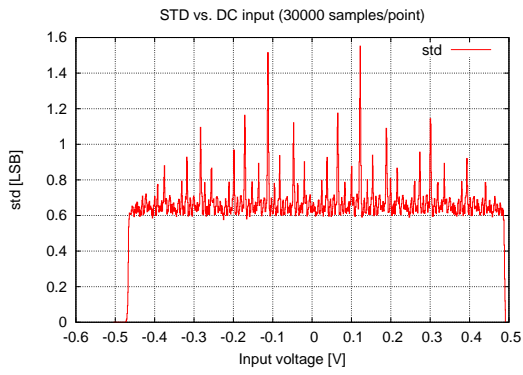
Missing Code	Number of apperence
70	17716
77	14322
96	17048
111	18783
141	13499
156	2602
175	20279
188	1723
189	12504

Missing Code	Number of apperence
205	13741
224	4861
230	18902
262	19347
269	13844
284	3604
315	10995
316	2795
412	11547

1.5 $I_0 = 300\mu\text{A}$ $I_1 = 180\mu\text{A}$

1.5.1 $f = 100\text{ kHz}$





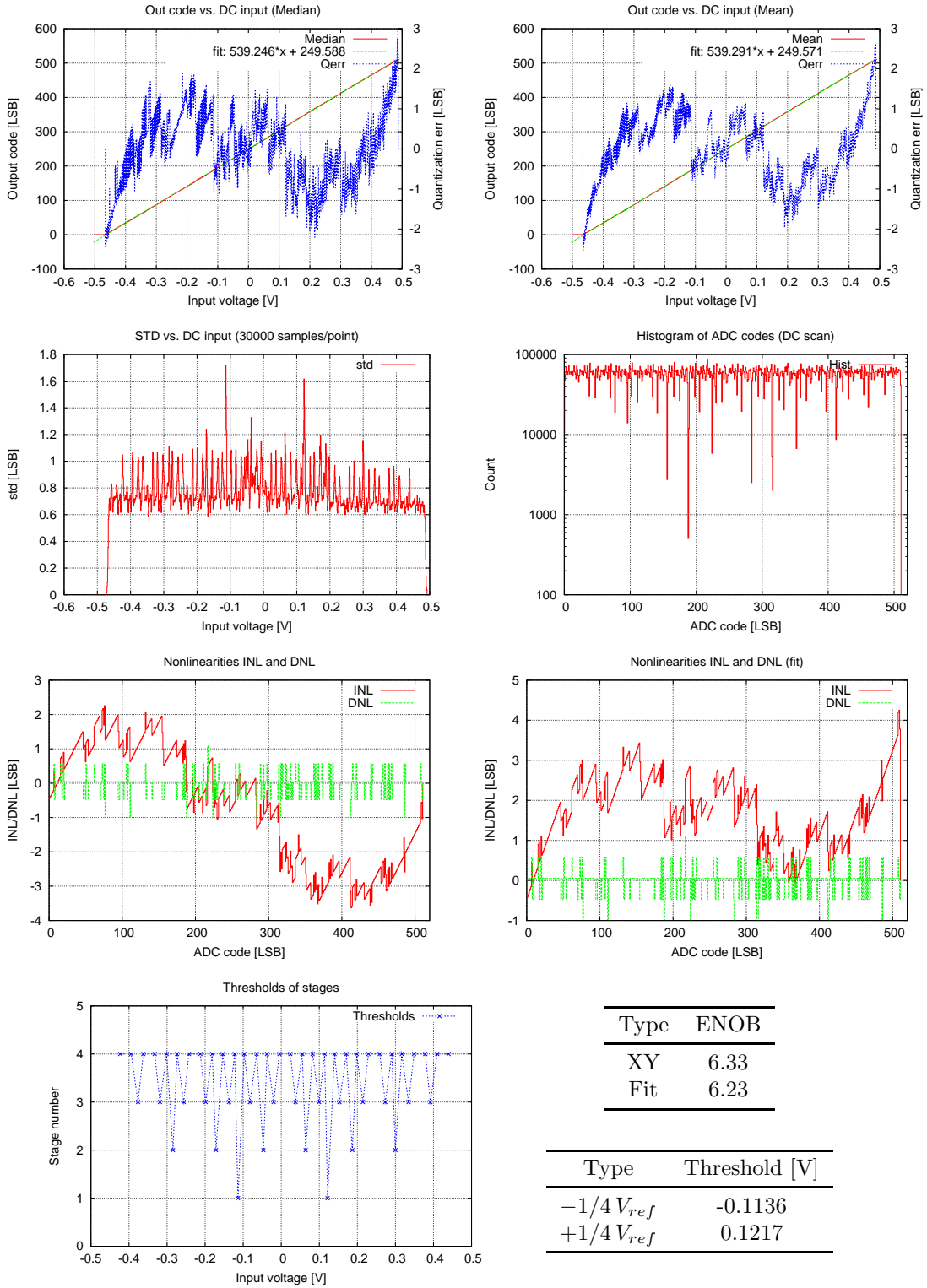
Type	ENOB
XY	6.25
Fit	6.33

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1118
$+1/4 V_{ref}$	0.1219

Missing Code	Number of apperence
96	10898
111	26511
156	2679
188	2975
189	6100
269	18829

Missing Code	Number of apperence
284	1584
315	2298
352	6717
367	26142
412	6031
461	20943

1.5.2 $f = 3 \text{ MHz}$



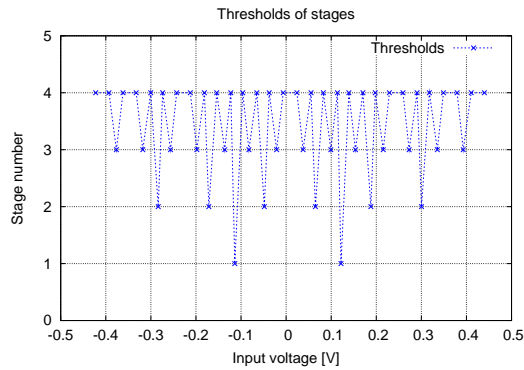
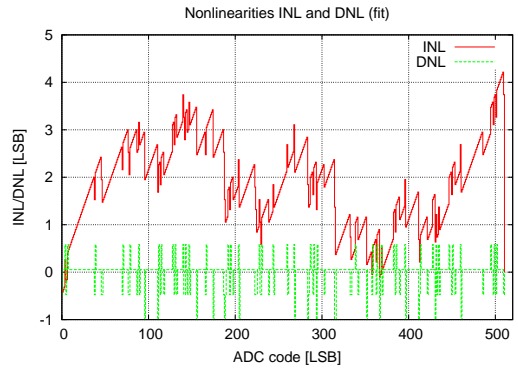
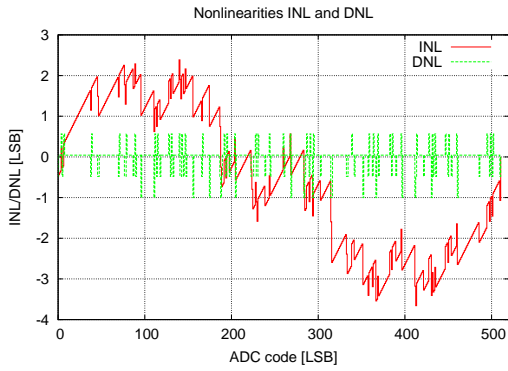
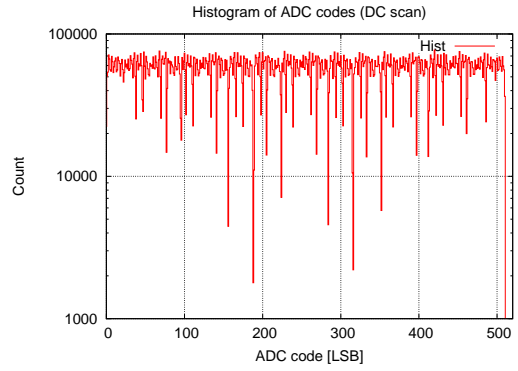
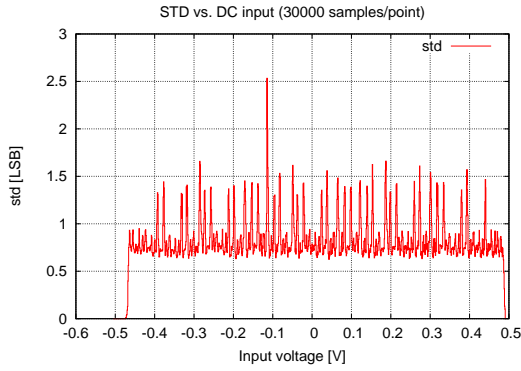
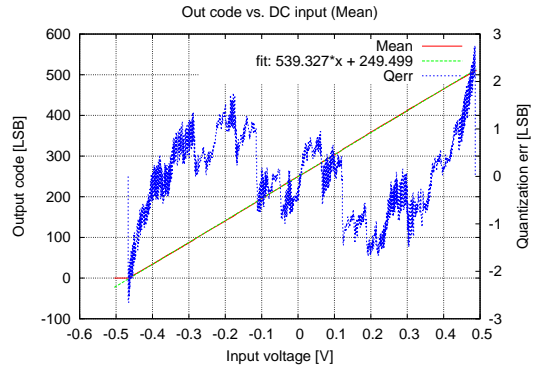
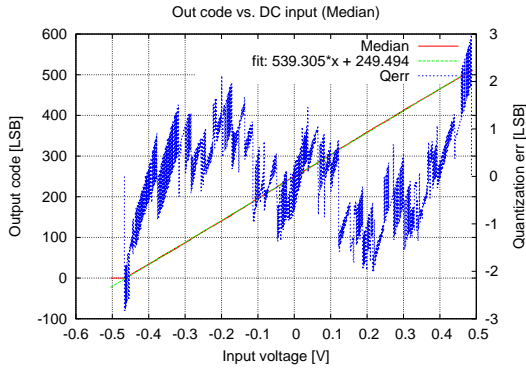
Type	ENOB
XY	6.33
Fit	6.23

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1136
$+1/4 V_{ref}$	0.1217

Missing Code	Number of apperence
77	18888
111	25511
188	505
224	5832

Missing Code	Number of apperence
284	2507
315	5325
316	2004
412	8681
486	31636

1.5.3 $f = 10$ MHz



Type	ENOB
XY	6.33
Fit	6.14

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1139
$+1/4 V_{ref}$	0.1217

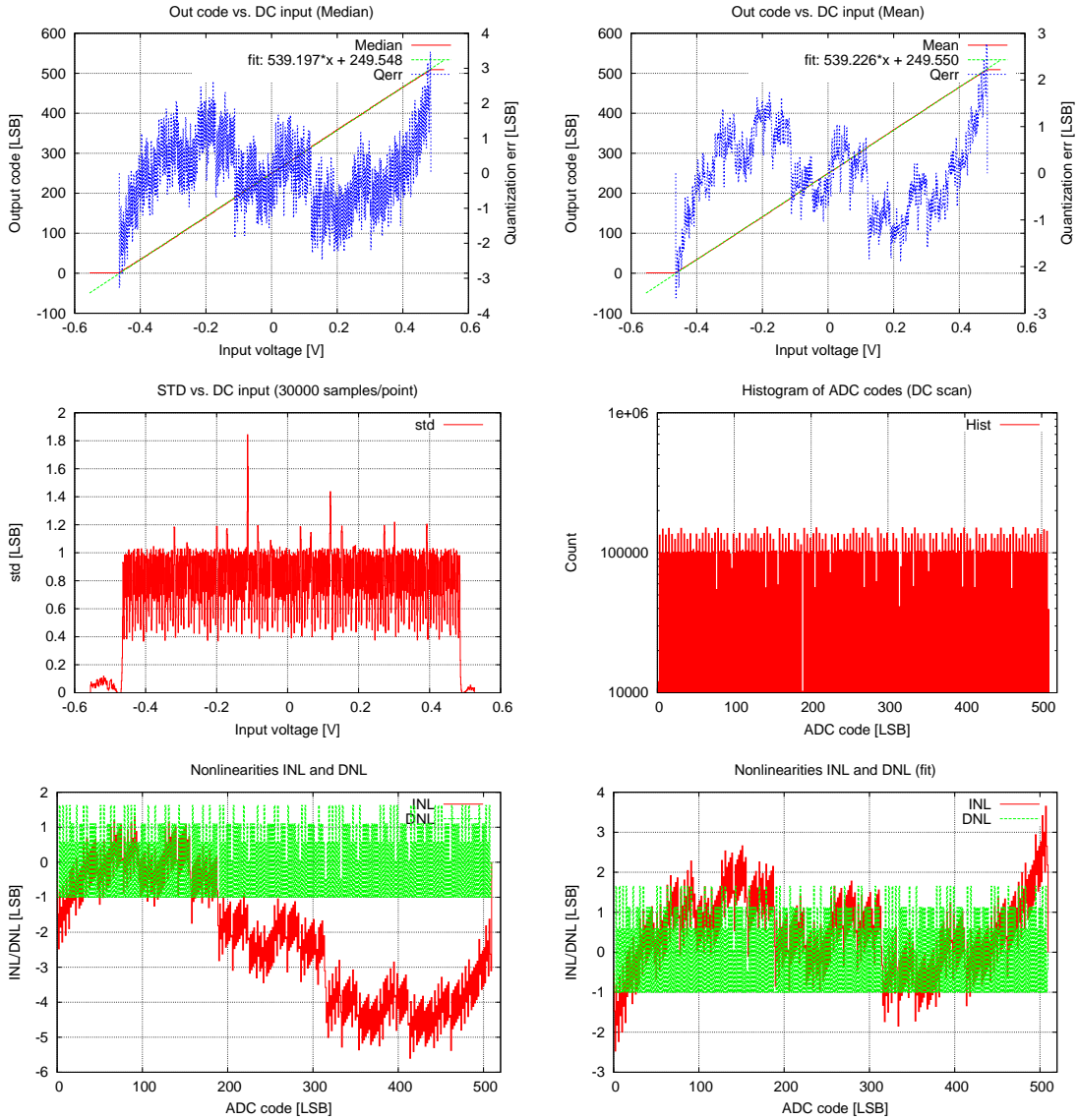
Missing Code	Number of apperence
96	17964
111	22615
156	4455
175	22400
188	1790
205	14113
269	14301
284	4569

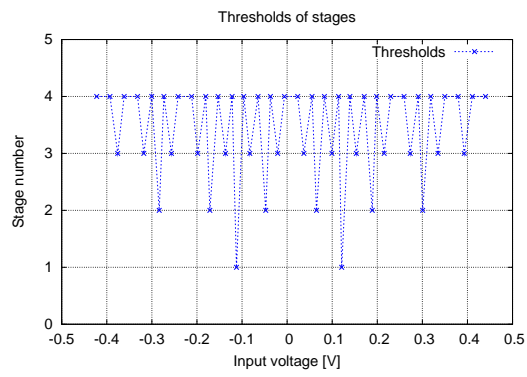
Missing Code	Number of apperence
294	25870
315	10566
316	2204
352	5755
367	22230
397	14057
412	13776
431	22860
461	19951

2 $I_0 = 150\mu\text{A}$ and constant

2.1 $I_1 = 45\mu\text{A}$

2.1.1 $f = 100\text{ kHz}$



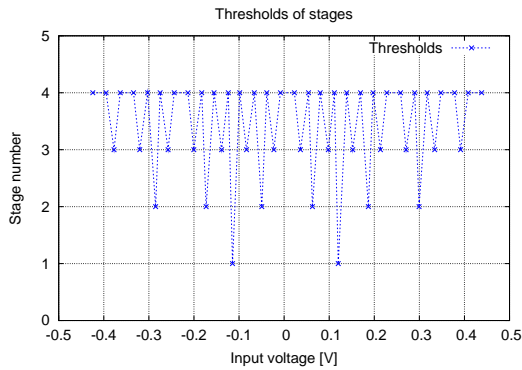
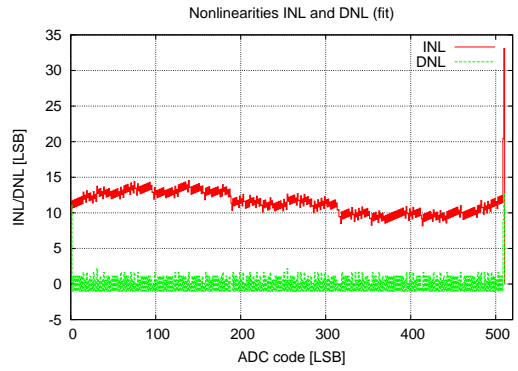
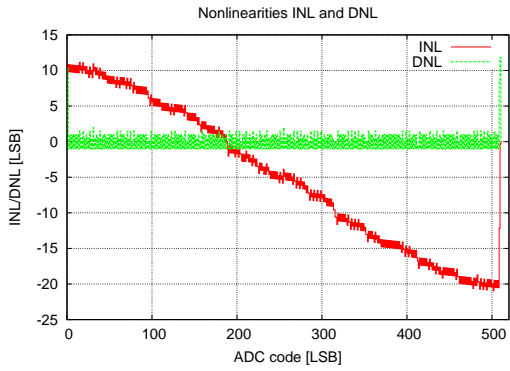
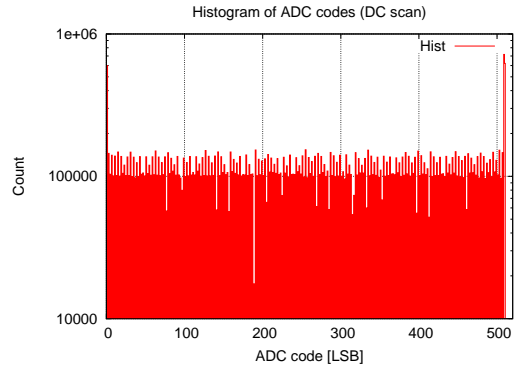
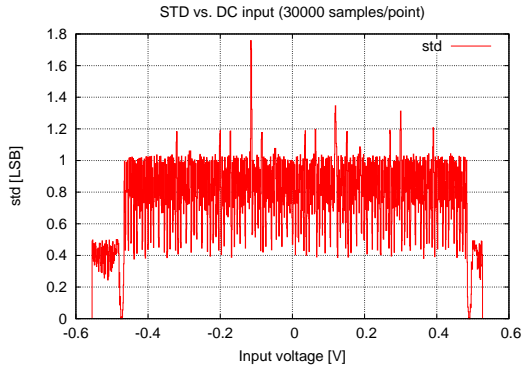
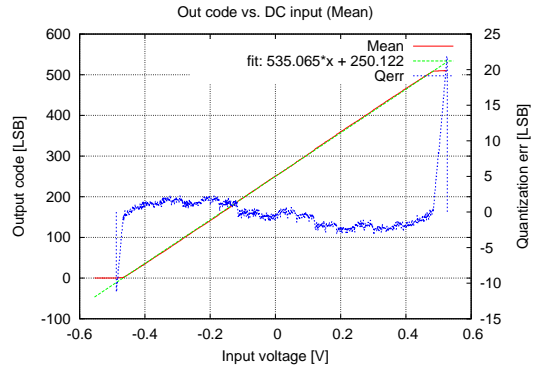
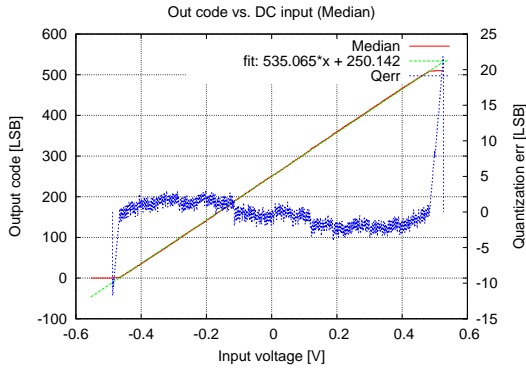


Type	ENOB
XY	5.70
Fit	7.01

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1123
$+1/4 V_{ref}$	0.1210

Missing Code	Number of apperence	Missing Code	Number of apperence
1	11991	254	0
2	0	256	0
4	0	258	0
6	0	260	0
8	0	262	0
10	0	264	0
12	0	266	0
14	0	268	0
16	0	270	0
18	0	272	0
20	0	274	0
22	0	276	0
24	0	278	0
26	0	280	0
28	0	282	0
30	0	284	0
32	0	286	0
34	0	288	0
36	0	290	0
38	0	292	0
40	0	294	0
42	0	296	0
44	0	298	0
46	0	300	0
48	0	302	0
50	0	304	0
52	0	306	0
54	0	308	0
56	0	310	0
58	0	312	0
60	0	314	0
62	0	316	0
64	0	318	0
66	0	320	0
68	0	322	0
70	0	324	0
72	0	326	0
74	0	328	0
76	0	330	0
78	0	332	0
80	0	334	0
82	0	336	0
84	0	338	0
86	0	340	0
88	0	342	0
90	0	344	0
92	0	346	0
94	0	348	0
96	0	350	0
98	0	352	0
100	0	354	0
102	0	356	0
104	0	358	0
106	0	360	0
108	0	362	0
110	0	364	0
112	0	366	0
114	0	368	0
116	0	370	0
118	0	372	0
120	0	374	0
122	0	376	0
124	0	378	0

2.1.2 $f = 3 \text{ MHz}$



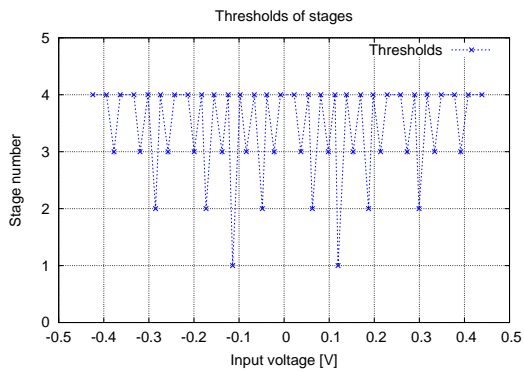
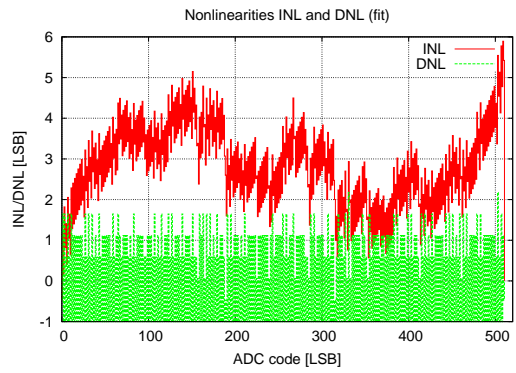
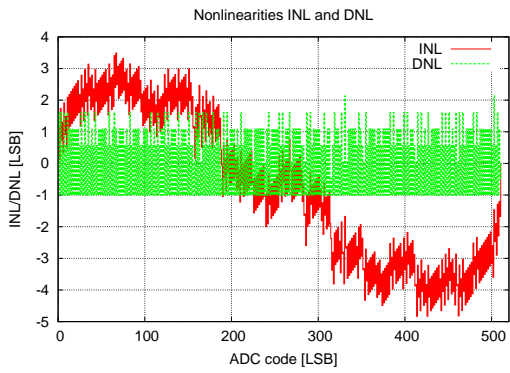
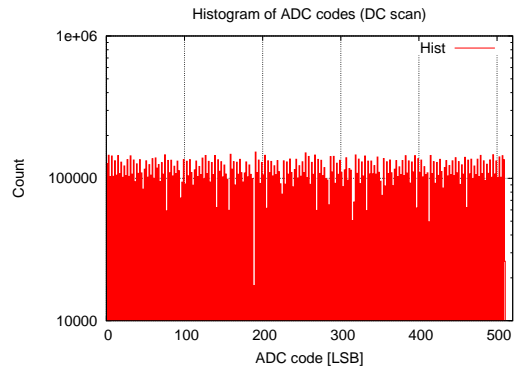
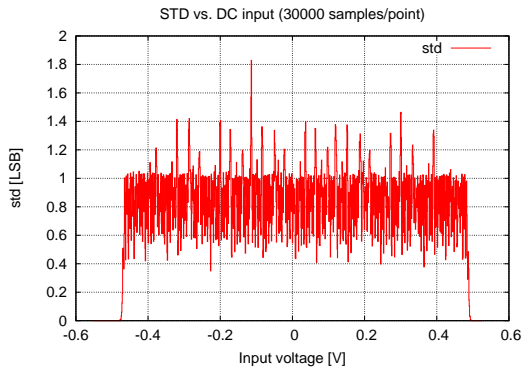
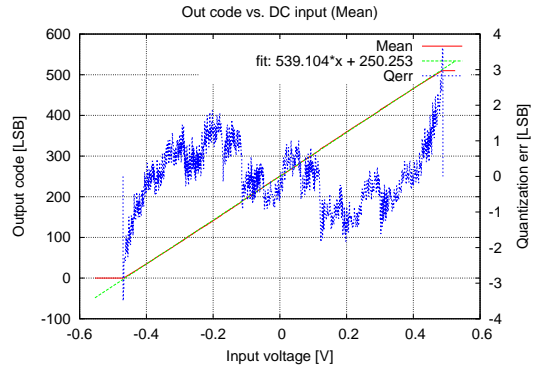
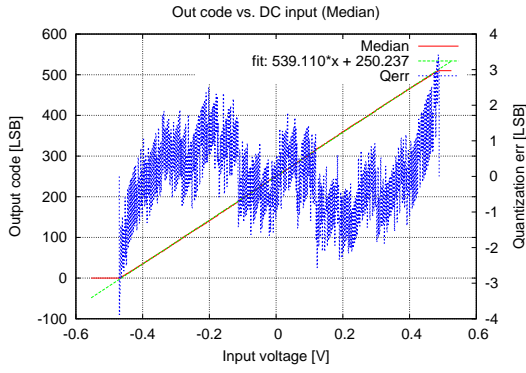
Type	ENOB
XY	3.71
Fit	3.68

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1145
$+1/4 V_{ref}$	0.1201

Missing Code	Number of apperence
2	0
4	0
6	0
8	0
10	0
12	0
14	0
16	0
18	0
20	0
22	0
24	0
26	0
28	0
30	0
32	0
34	0
36	0
38	0
40	0
42	0
44	0
46	0
48	0
50	0
52	0
54	0
56	0
58	0
60	0
62	0
64	0
66	0
68	0
70	0
72	0
74	0
76	0
78	0
80	0
82	0
84	0
86	0
88	0
90	0
92	0
94	0
96	0
98	0
100	0
102	0
104	0
106	0
108	0
110	0
112	0
114	0
116	0
118	0
120	0
122	0
124	0
126	0

Missing Code	Number of apperence
254	0
256	0
258	0
260	0
262	0
264	0
266	0
268	0
270	0
272	0
274	0
276	0
278	0
280	0
282	0
284	0
286	0
288	0
290	0
292	0
294	0
296	0
298	0
300	0
302	0
304	0
306	0
308	0
310	0
312	0
314	0
316	0
318	0
320	0
322	0
324	0
326	0
328	0
330	0
332	0
334	0
336	0
338	0
340	0
342	0
344	0
346	0
348	0
350	0
352	0
354	0
356	0
358	0
360	0
362	0
364	0
366	0
368	0
370	0
372	0
374	0
376	0
378	0

2.1.3 $f = 10$ MHz



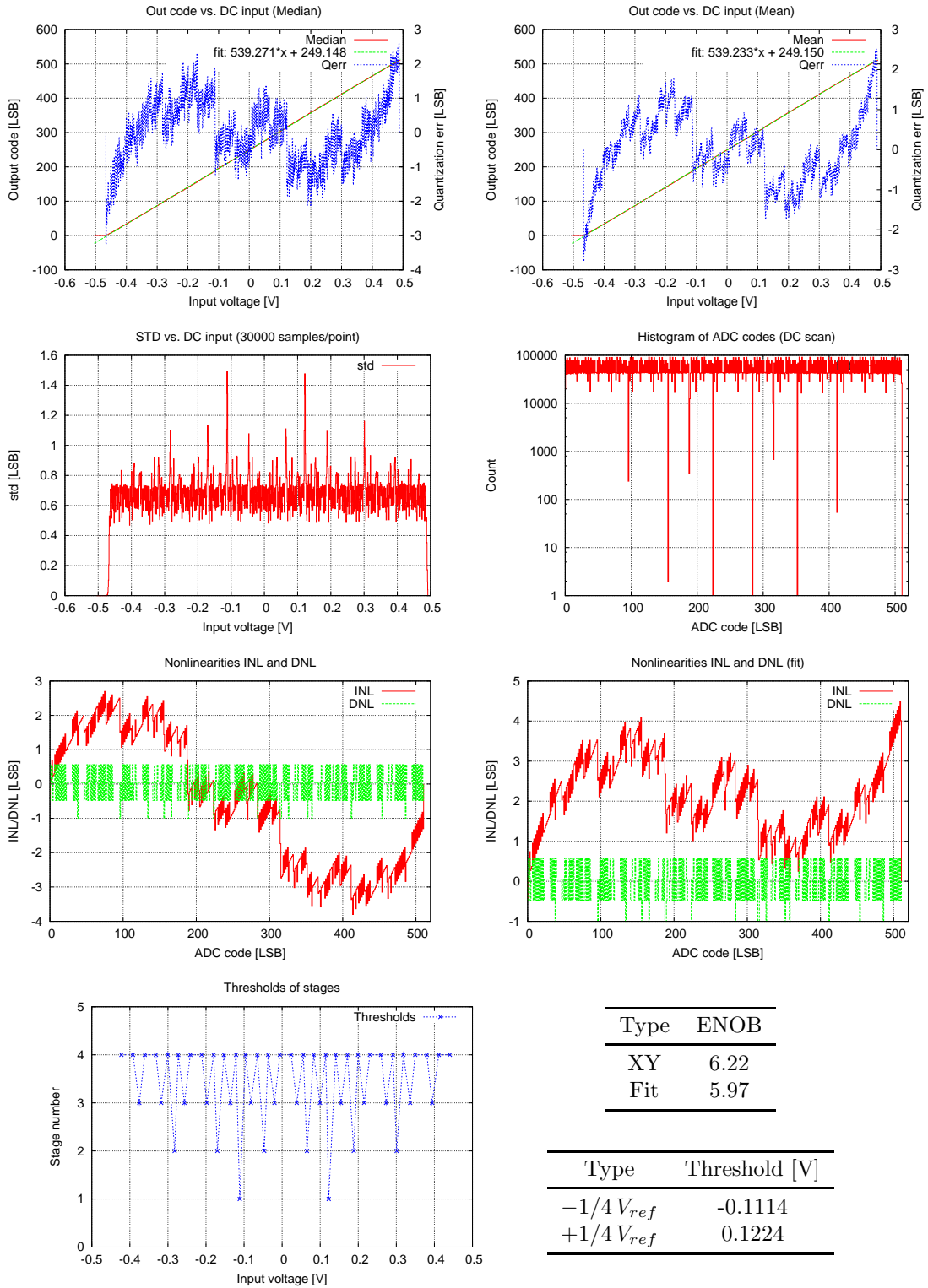
Type	ENOB
XY	5.87
Fit	5.61

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1142
$+1/4 V_{ref}$	0.1197

Missing Code	Number of apperence	Missing Code	Number of apperence
2	0	256	0
4	0	258	0
6	0	260	0
8	0	262	0
10	0	264	0
12	0	266	0
14	0	268	0
16	0	270	0
18	0	272	0
20	0	274	0
22	0	276	0
24	0	278	0
26	0	280	0
28	0	282	0
30	0	284	0
32	0	286	0
34	0	288	0
36	0	290	0
38	0	292	0
40	0	294	0
42	0	296	0
44	0	298	0
46	0	300	0
48	0	302	0
50	0	304	0
52	0	306	0
54	0	308	0
56	0	310	0
58	0	312	0
60	0	314	0
62	0	316	0
64	0	318	0
66	0	320	0
68	0	322	0
70	0	324	0
72	0	326	0
74	0	328	0
76	0	330	0
78	0	332	0
80	0	334	0
82	0	336	0
84	0	338	0
86	0	340	0
88	0	342	0
90	0	344	0
92	0	346	0
94	0	348	0
96	0	350	0
98	0	352	0
100	0	354	0
102	0	356	0
104	0	358	0
106	0	360	0
108	0	362	0
110	0	364	0
112	0	366	0
114	0	368	0
116	0	370	0
118	0	372	0
120	0	374	0
122	0	376	0
124	0	378	0
126	0	380	0

2.2 $I_1 = 64\mu\text{A}$

2.2.1 $f = 100\text{ kHz}$



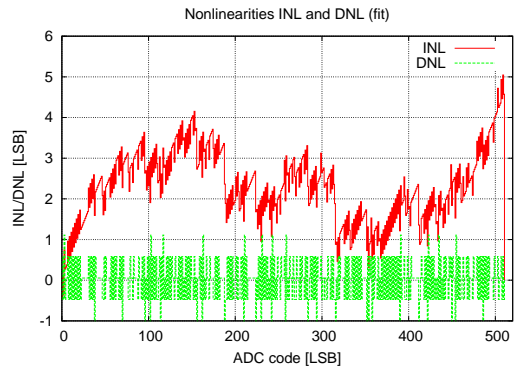
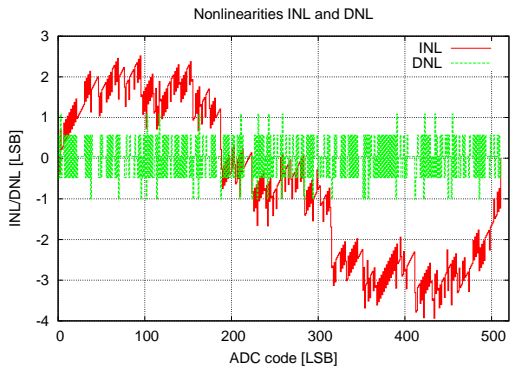
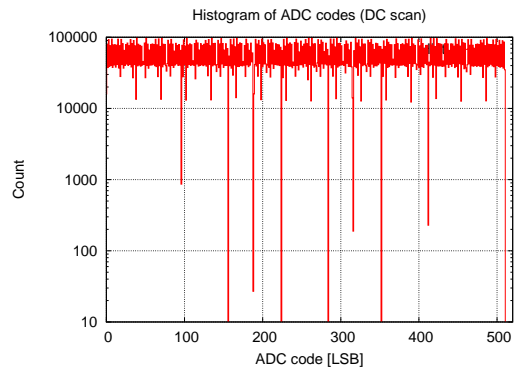
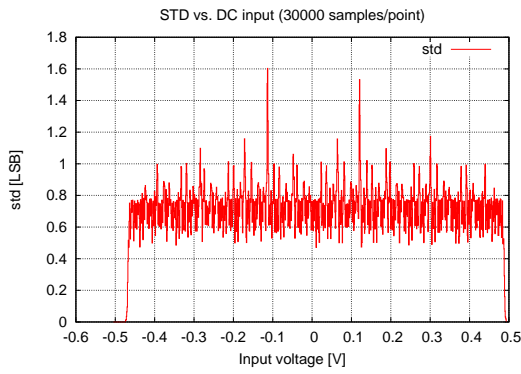
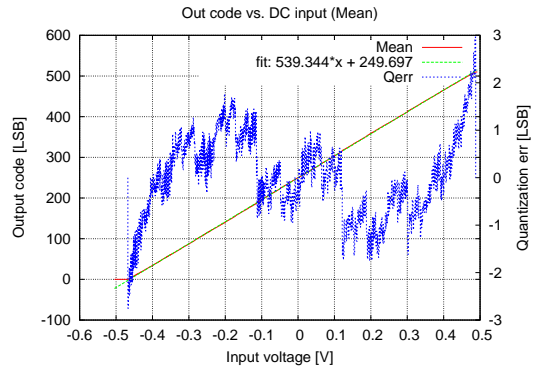
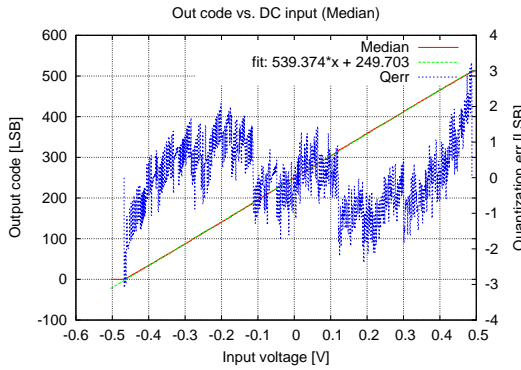
Type	ENOB
XY	6.22
Fit	5.97

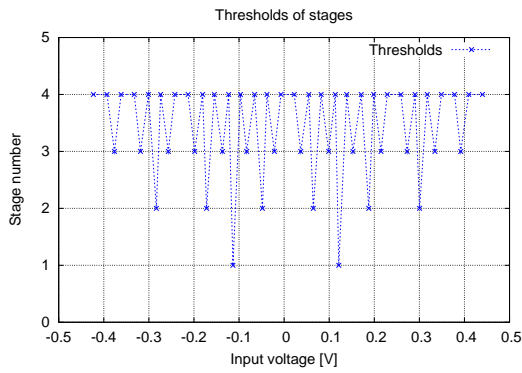
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1114
$+1/4 V_{ref}$	0.1224

Missing Code	Number of apperence
38	17309
96	240
134	17385
156	2
166	16824
188	347
189	12393
224	0

Missing Code	Number of apperence
284	0
315	10633
316	677
326	16887
352	0
358	16350
412	54
454	16662
486	16527

2.2.2 $f = 3$ MHz





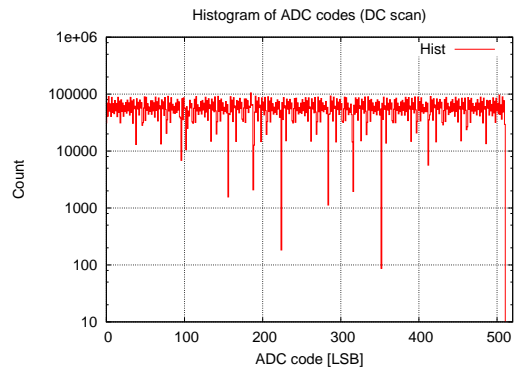
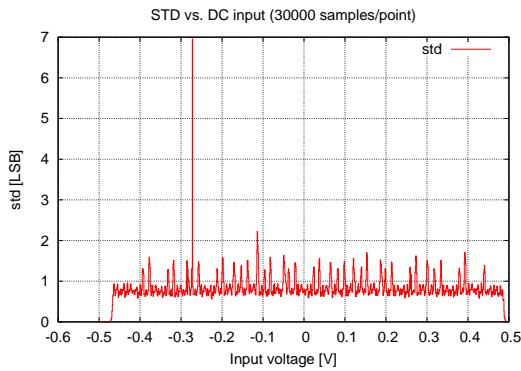
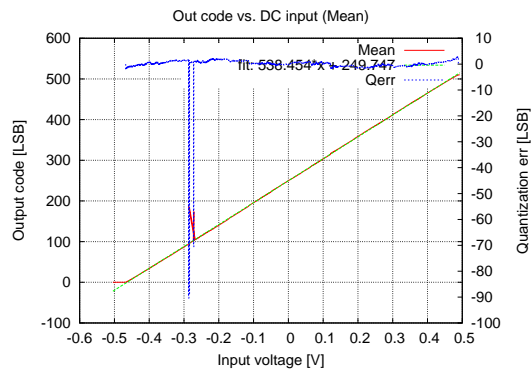
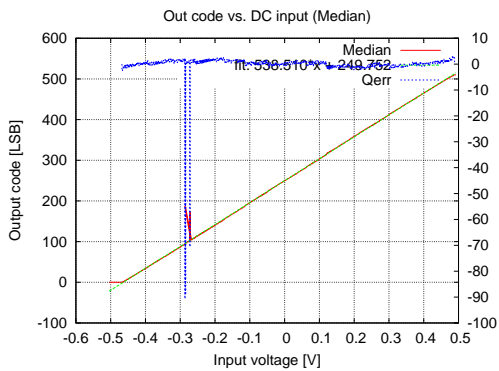
Type	ENOB
XY	6.19
Fit	5.90

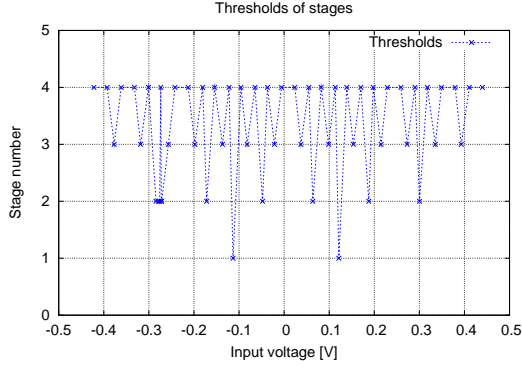
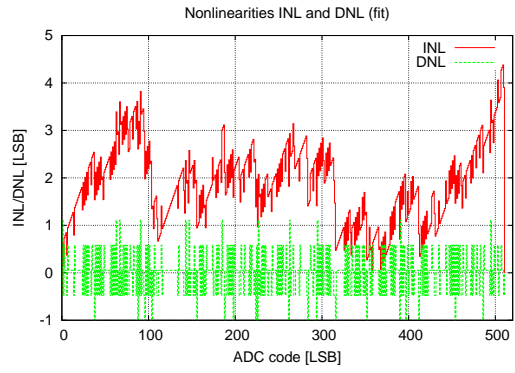
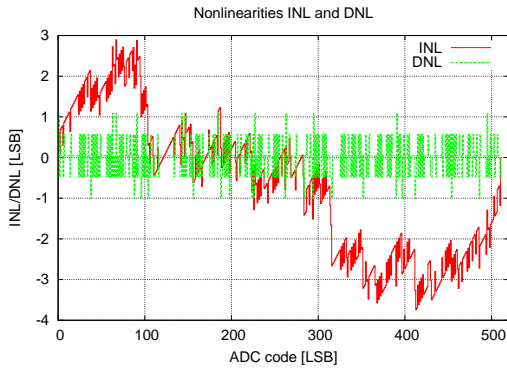
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1134
$+1/4 V_{ref}$	0.1212

Missing Code	Number of apperence
38	13440
70	13442
96	863
102	13093
114	26020
156	0
162	29308
188	27
210	27597
224	0
230	12962
242	28346

Missing Code	Number of apperence
258	25244
284	0
294	13693
316	189
352	0
354	28171
358	13158
390	12281
412	229
422	13757
450	27597
454	12662
486	12781

2.2.3 $f = 10$ MHz





Type	ENOB
XY	6.31
Fit	6.17

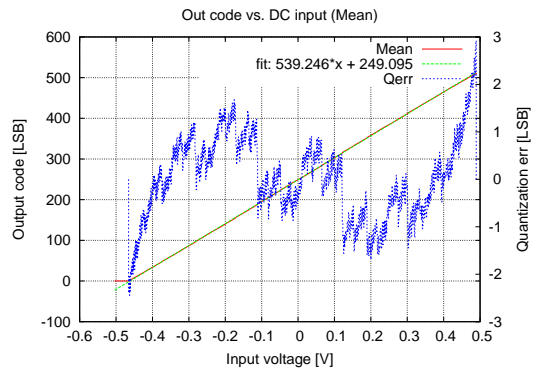
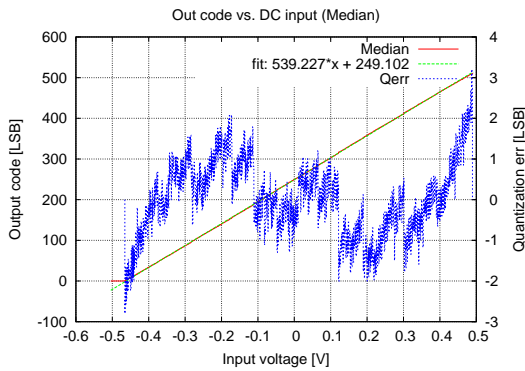
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1133
$+1/4 V_{ref}$	0.1214

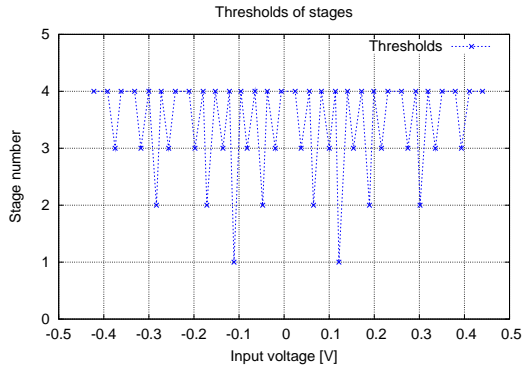
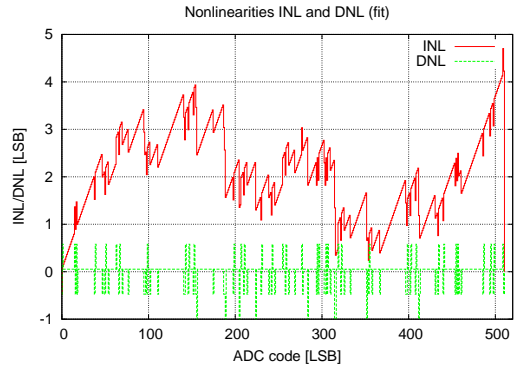
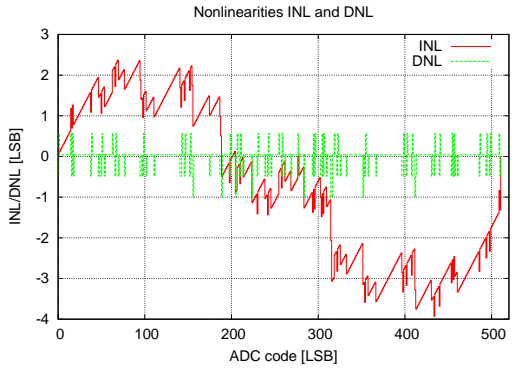
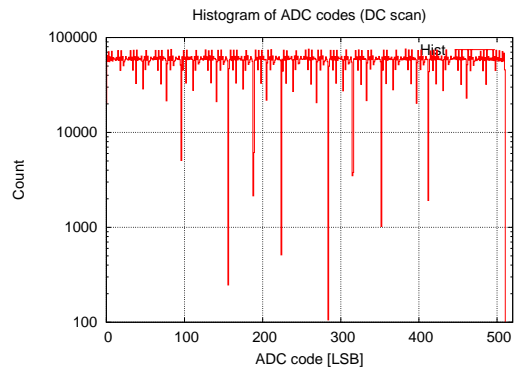
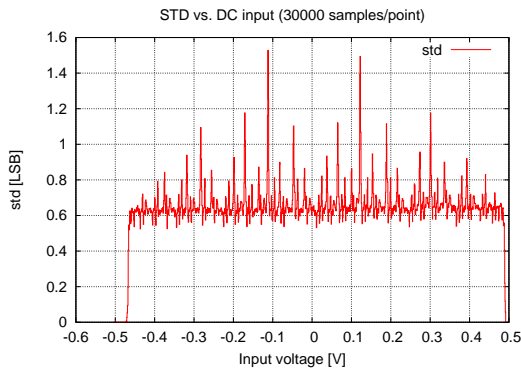
Missing Code	Number of apperence
38	13053
88	45942
96	6876
104	25062
156	1565
188	2085
198	14680
224	183
226	35746

Missing Code	Number of apperence
262	14908
284	1128
294	14460
316	1949
352	87
390	14809
397	20803
412	5658
454	15127
486	13482

2.3 $I_1 = 90\mu A$

2.3.1 $f = 100\text{ kHz}$





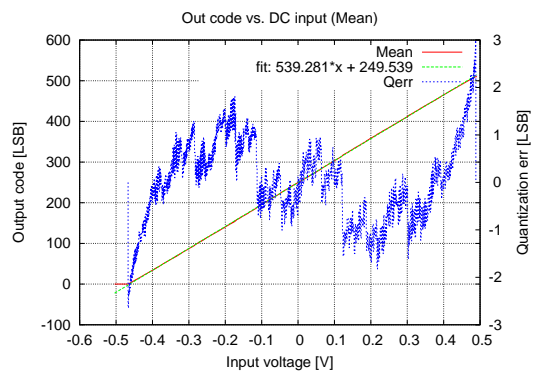
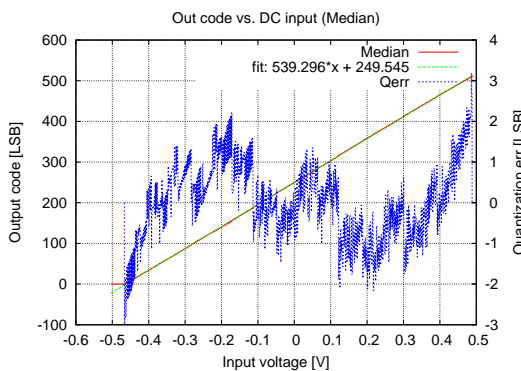
Type	ENOB
XY	6.18
Fit	6.02

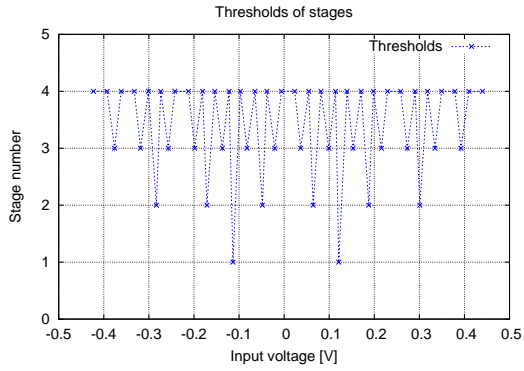
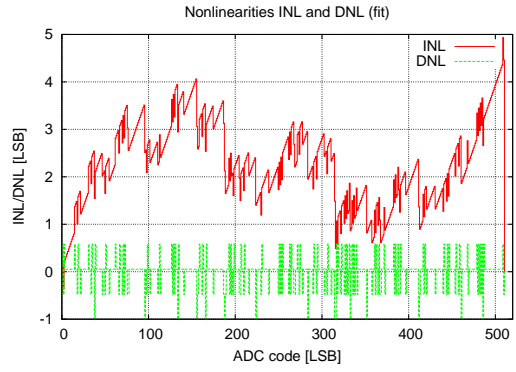
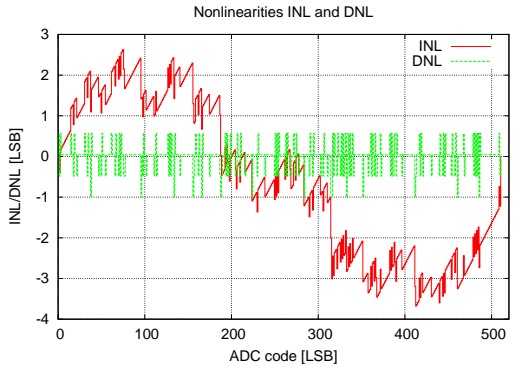
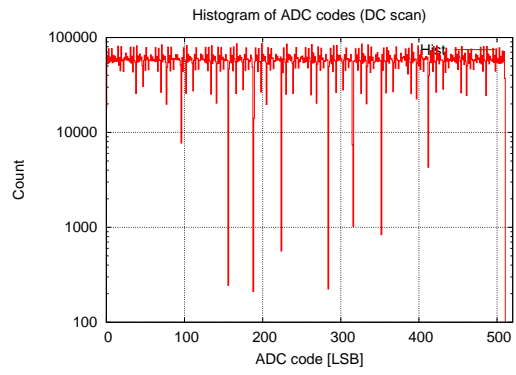
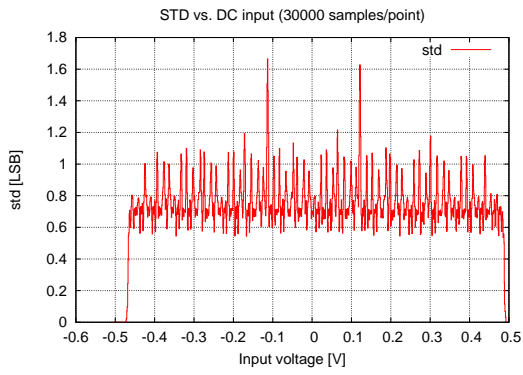
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1112
$+1/4 V_{ref}$	0.1216

Missing Code	Number of apperence
156	247
189	6141
205	21851
224	513

Missing Code	Number of apperence
284	106
315	3498
316	3783
352	1022
412	1917

2.3.2 $f = 3$ MHz





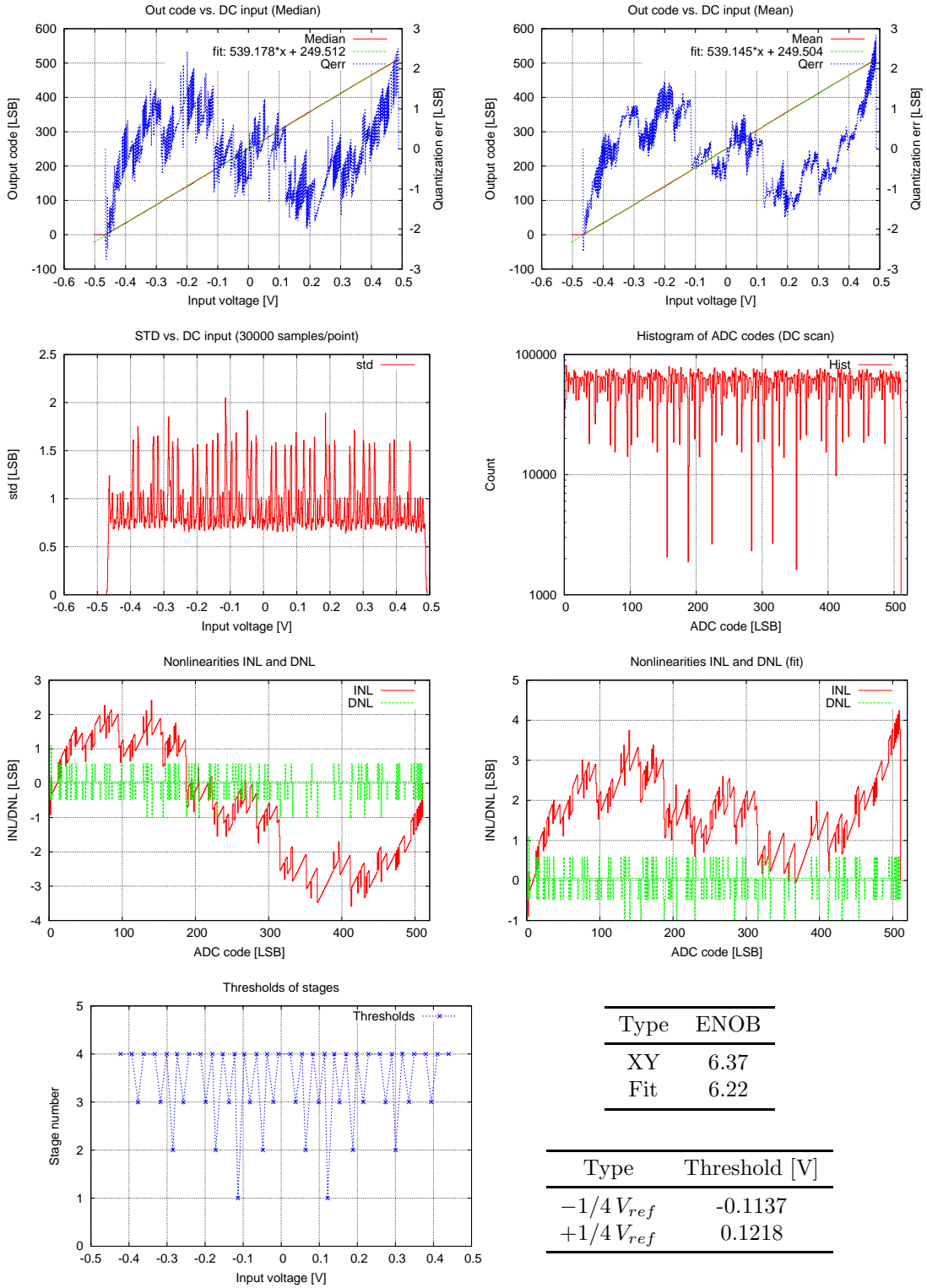
Type	ENOB
XY	6.22
Fit	5.91

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1135
$+1/4 V_{ref}$	0.1212

Missing Code	Number of apperence
38	25651
96	7734
134	25315
156	245
166	25685
188	211
224	563

Missing Code	Number of apperence
284	224
315	7396
316	1023
333	20017
352	839
412	4297
461	24431
486	24530

2.3.3 $f = 10$ MHz



Type	ENOB
XY	6.37
Fit	6.22

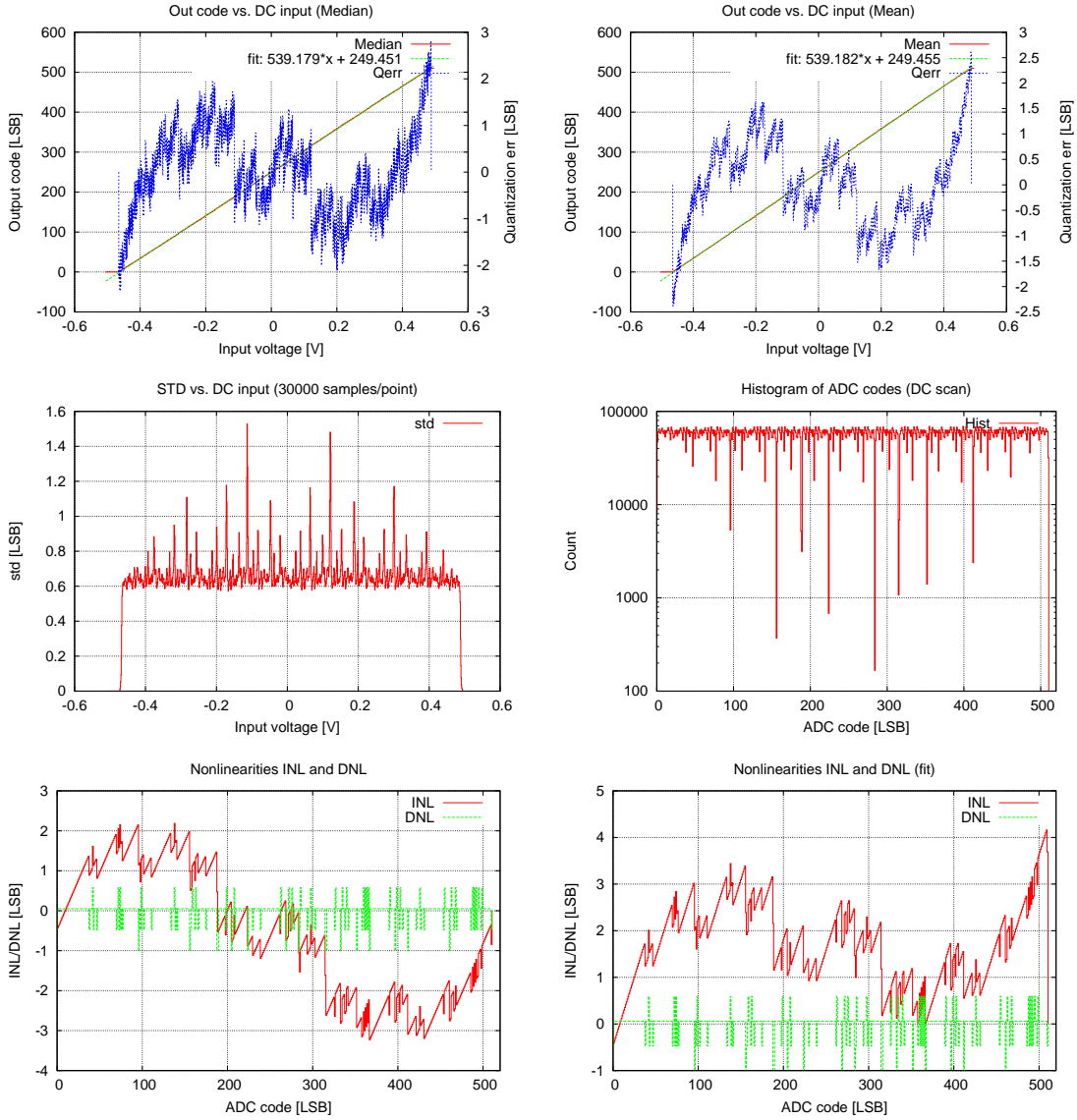
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1137
$+1/4 V_{ref}$	0.1218

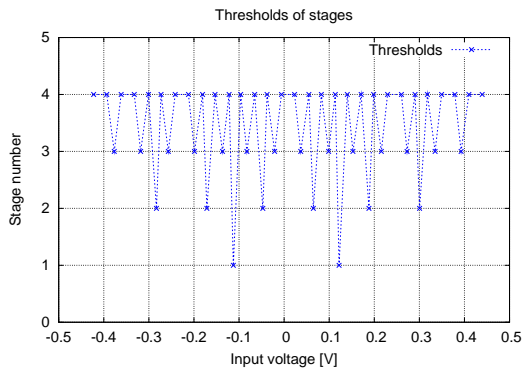
Missing Code	Number of apperence
134	18548
141	15404
156	2065
188	1877
205	14071
230	18788
284	2332

Missing Code	Number of apperence
316	2677
333	13855
352	1622
367	21445
412	9802
431	20730
454	18516

2.4 $I_1 = 128\mu A$

2.4.1 $f = 100\text{ kHz}$





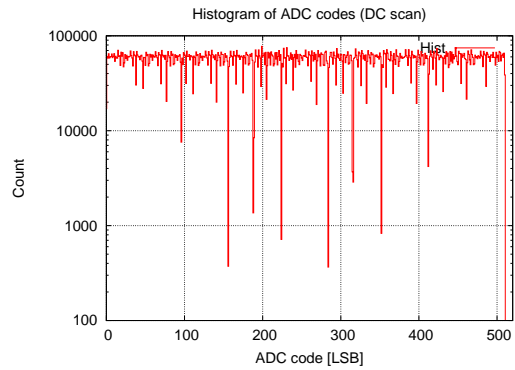
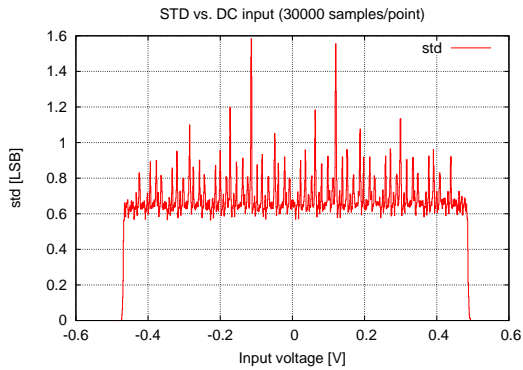
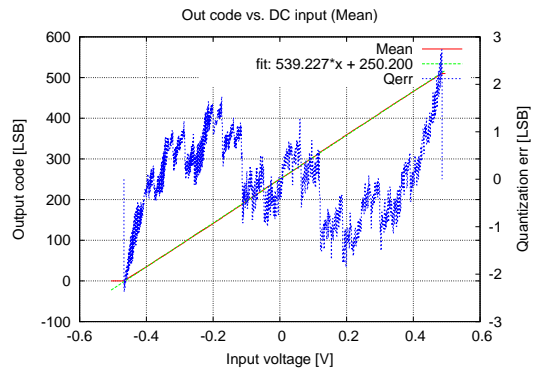
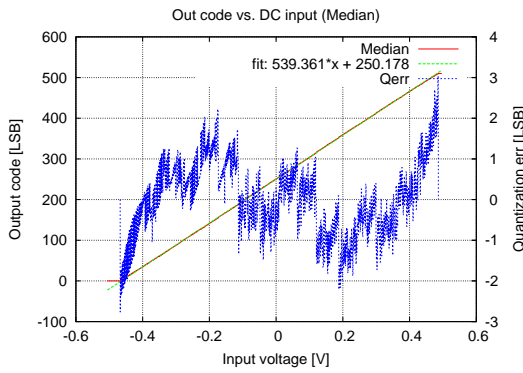
Type	ENOB
XY	6.43
Fit	6.24

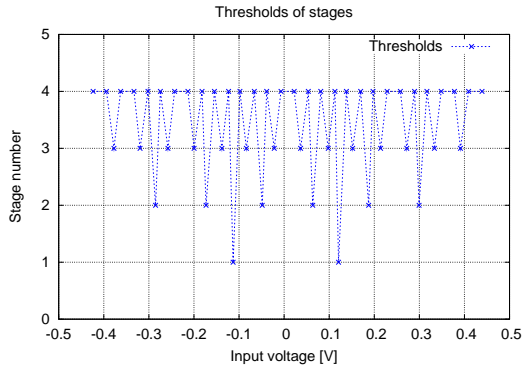
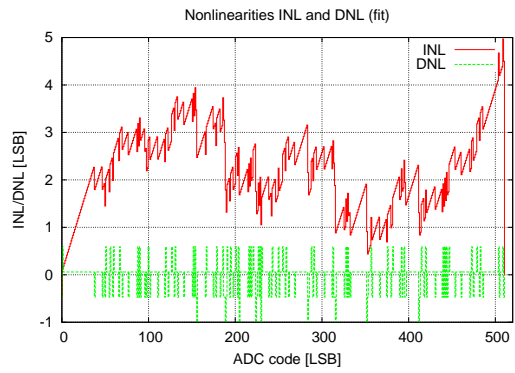
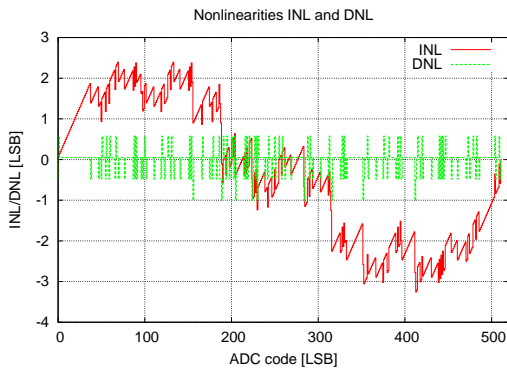
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1127
$+1/4 V_{ref}$	0.1218

Missing Code	Number of apperence
96	5336
156	371
188	5202
189	3146
205	18164
224	683
269	17558
284	167

Missing Code	Number of apperence
315	1073
316	6853
333	18188
352	1408
367	22979
397	17403
412	2390
461	19797

2.4.2 $f = 3$ MHz





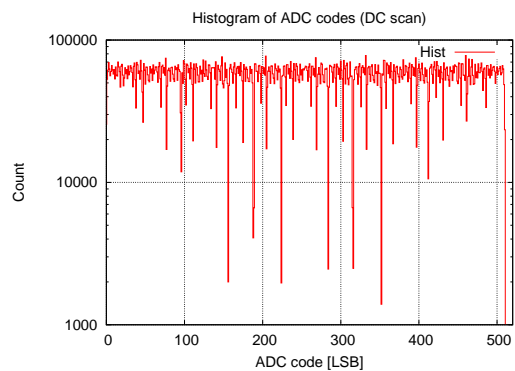
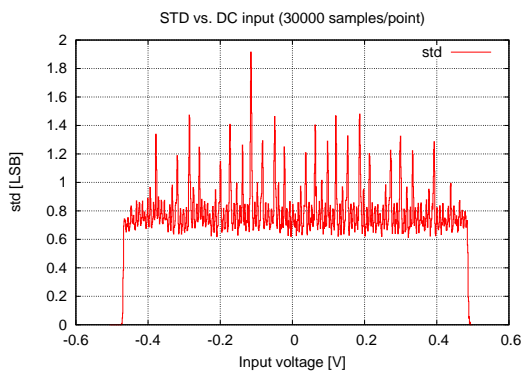
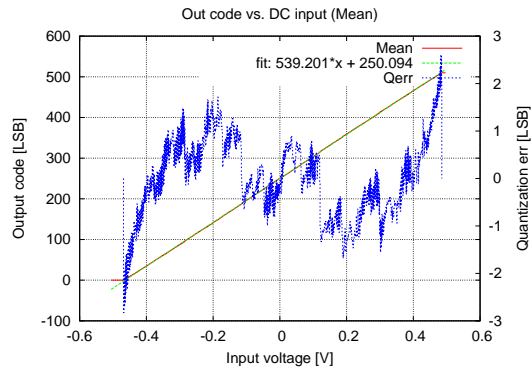
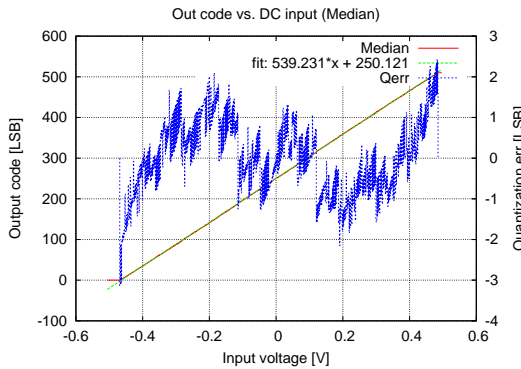
Type	ENOB
XY	6.41
Fit	5.94

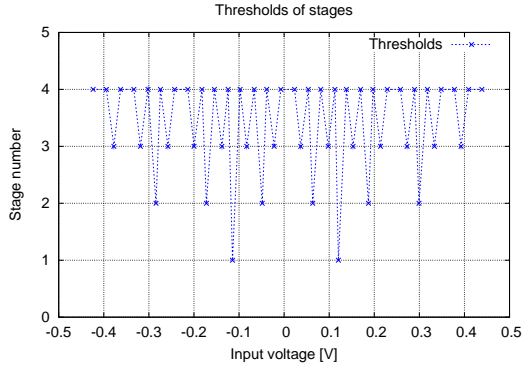
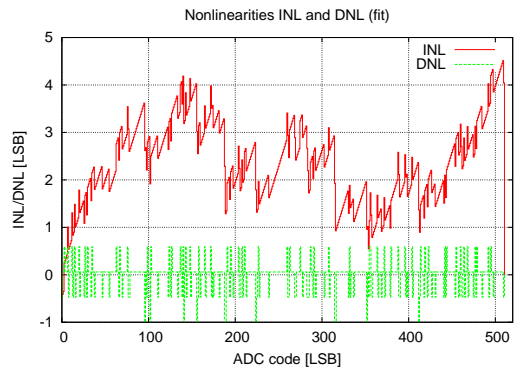
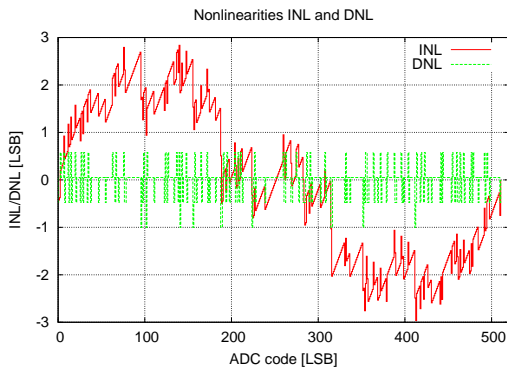
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1132
$+1/4 V_{ref}$	0.1207

Missing Code	Number of apperence
156	373
189	8429
205	21412
224	716

Missing Code	Number of apperence
230	31293
284	366
316	2873
352	829
412	4193

2.4.3 $f = 10$ MHz





Type	ENOB
XY	6.52
Fit	5.87

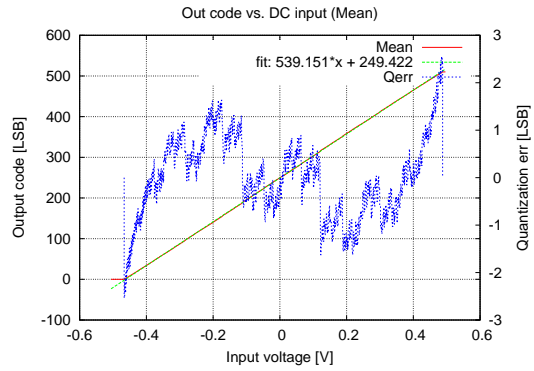
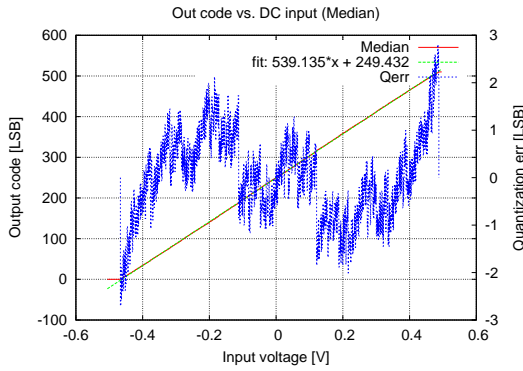
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1144
$+1/4 V_{ref}$	0.1205

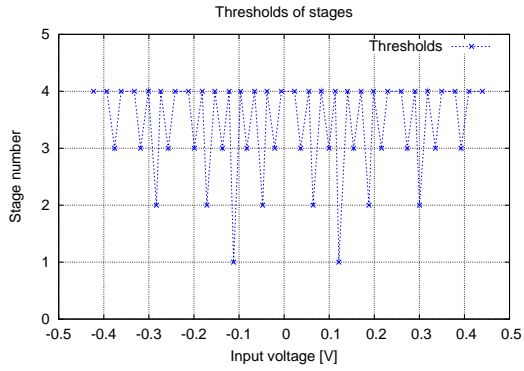
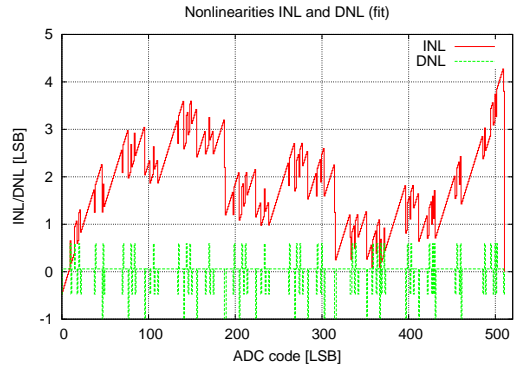
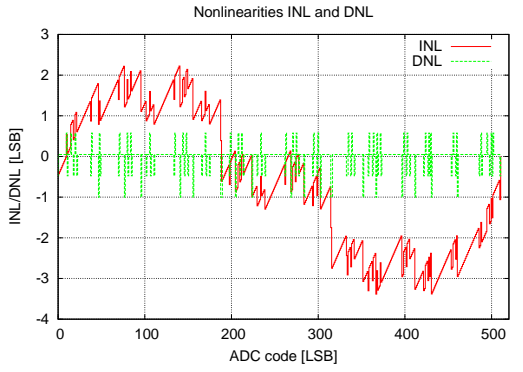
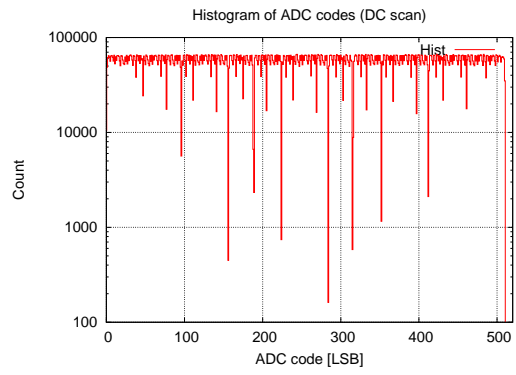
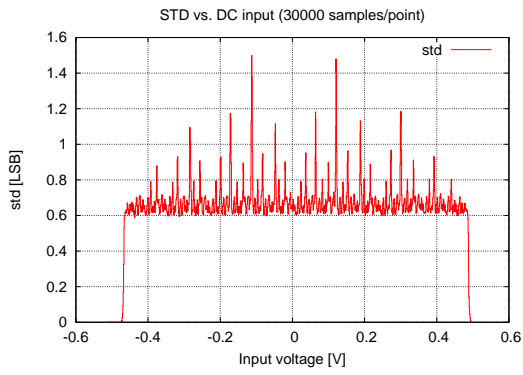
Missing Code	Number of apperence
96	11877
102	34994
141	17597
156	2001
188	4076

Missing Code	Number of apperence
189	6629
224	1966
315	6652
316	2492
352	1394
412	10589

2.5 $I_1 = 180\mu A$

2.5.1 $f = 100\text{ kHz}$





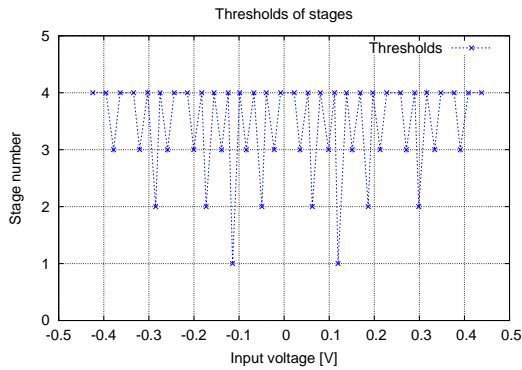
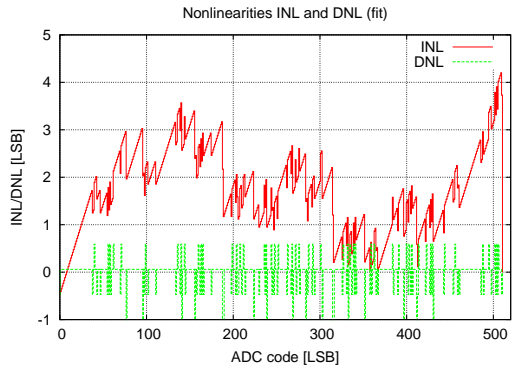
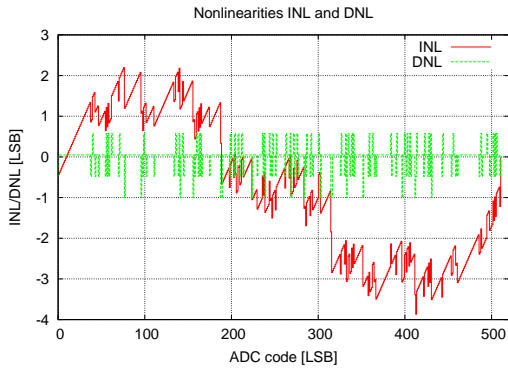
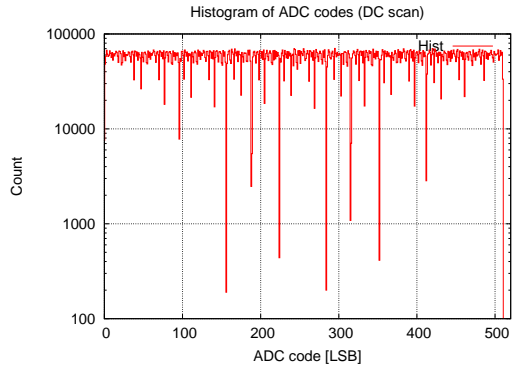
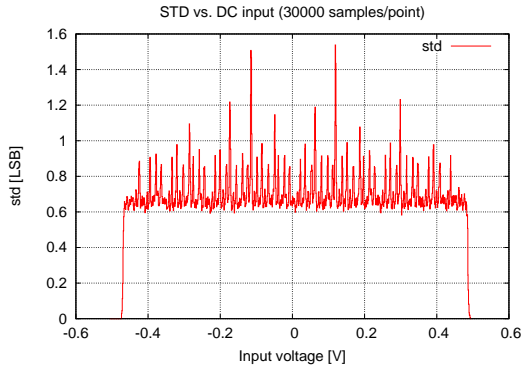
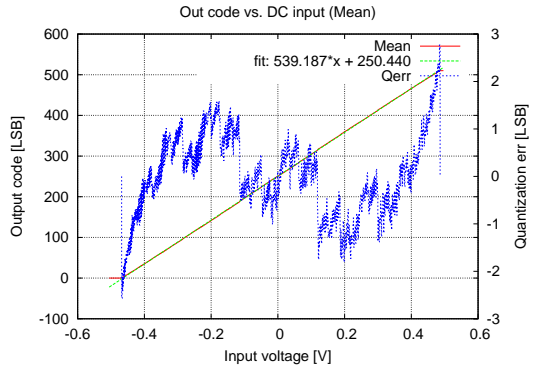
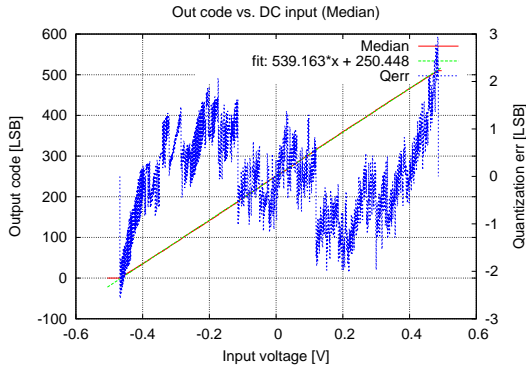
Type	ENOB
XY	6.35
Fit	6.17

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1122
$+1/4 V_{ref}$	0.1213

Missing Code	Number of apperence
47	24316
77	17537
96	5646
141	16538
156	449
188	6635
189	2330
205	16928
224	742
269	16280

Missing Code	Number of apperence
284	162
303	21757
315	583
316	8863
352	1158
367	21235
397	15758
412	2109
431	21872
461	17754

2.5.2 $f = 3 \text{ MHz}$



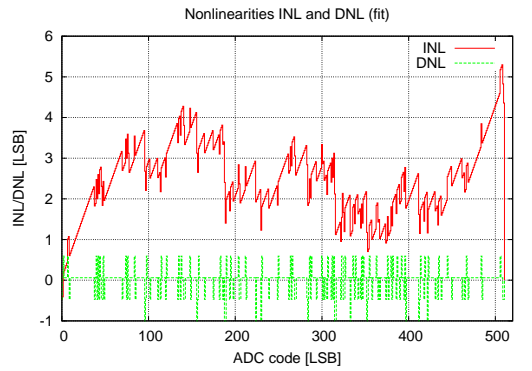
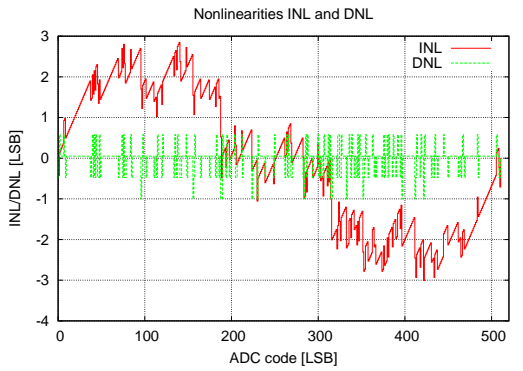
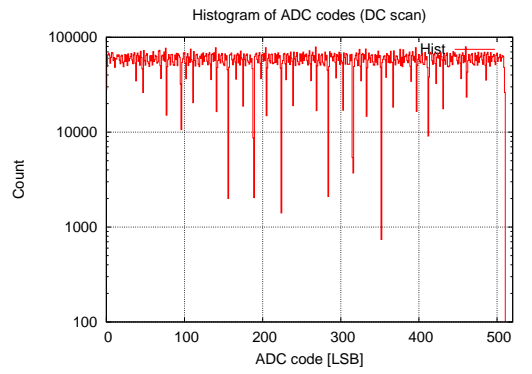
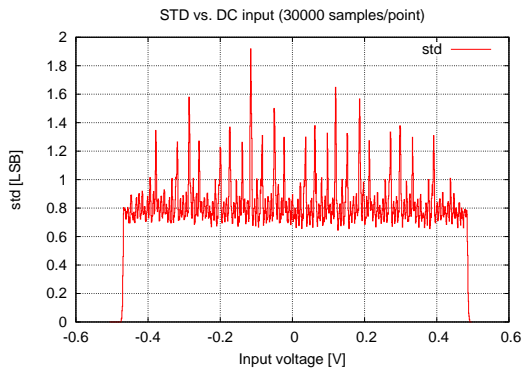
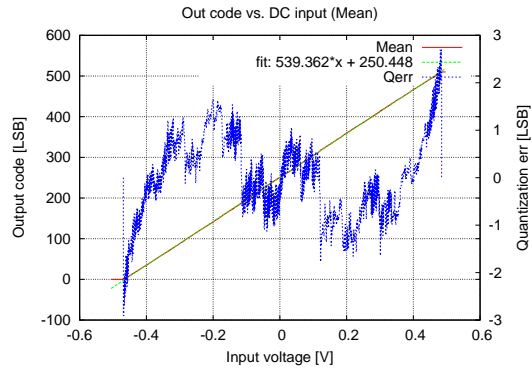
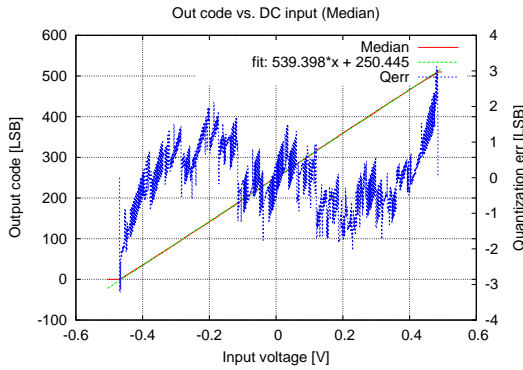
Type	ENOB
XY	6.29
Fit	6.24

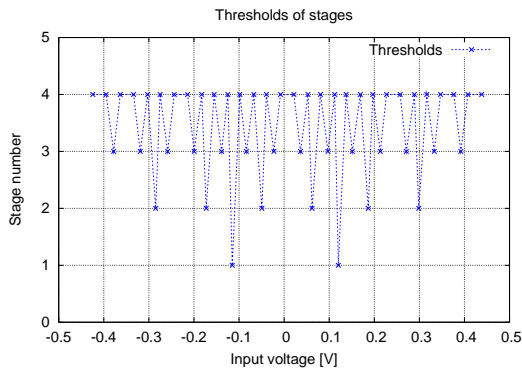
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1144
$+1/4 V_{ref}$	0.1197

Missing Code	Number of apperence
77	18135
96	7800
141	17063
156	190
188	2475
189	5487
224	439
239	22541
269	16451

Missing Code	Number of apperence
284	200
303	22181
315	1085
316	7052
333	17396
352	413
397	17371
412	2840
431	20677

2.5.3 $f = 10$ MHz





Type	ENOB
XY	6.46
Fit	5.80

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1150
$+1/4 V_{ref}$	0.1202

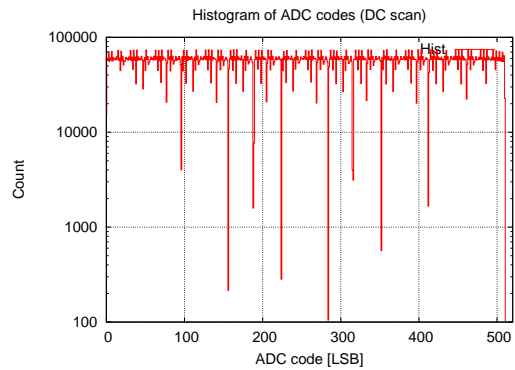
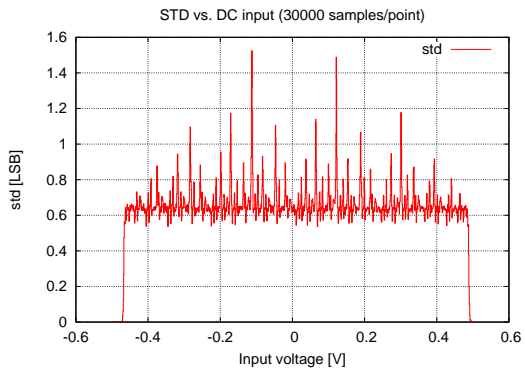
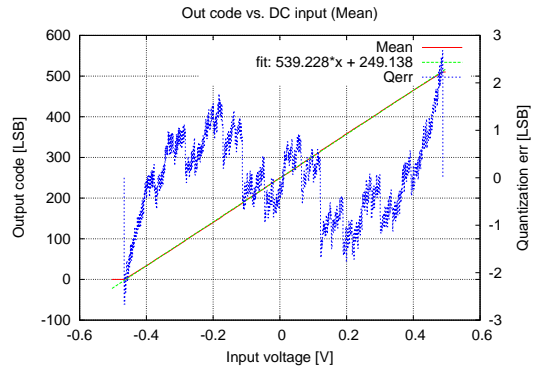
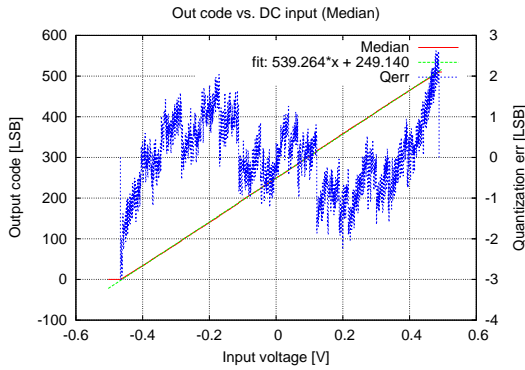
Missing Code	Number of apperence
96	10624
156	2001
188	8685
189	2043
224	1410
230	35726
284	2097

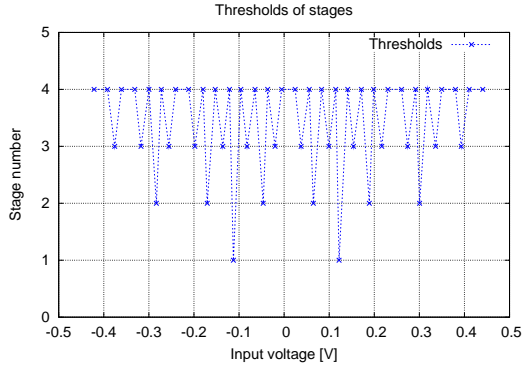
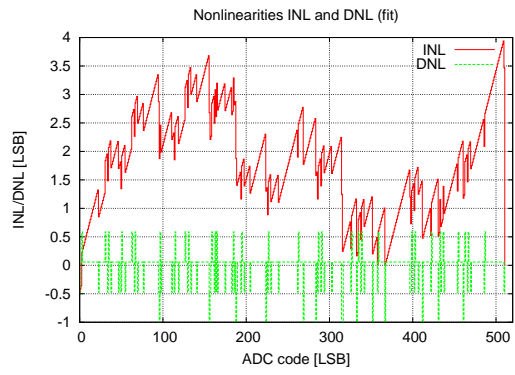
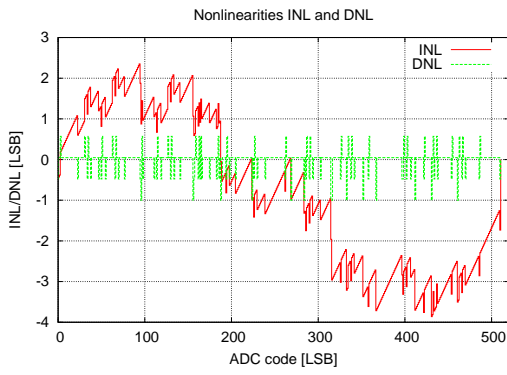
Missing Code	Number of apperence
315	5401
316	3709
333	14701
352	740
397	16557
412	9101
422	32594

3 $I_1 = 90\mu\text{A}$ and constant

3.1 $I_0 = 70\mu\text{A}$

3.1.1 $f = 100\text{ kHz}$





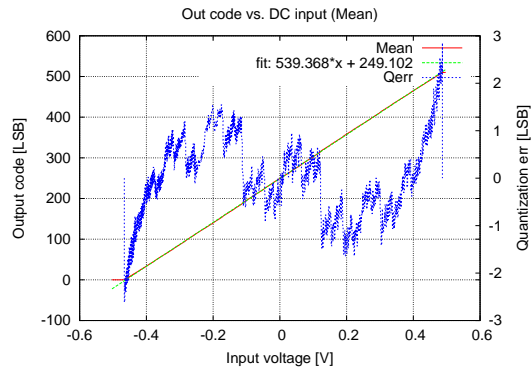
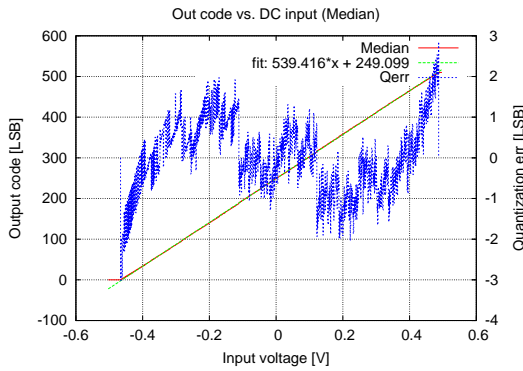
Type	ENOB
XY	6.18
Fit	6.17

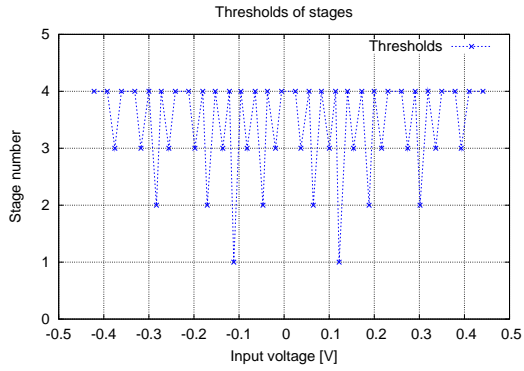
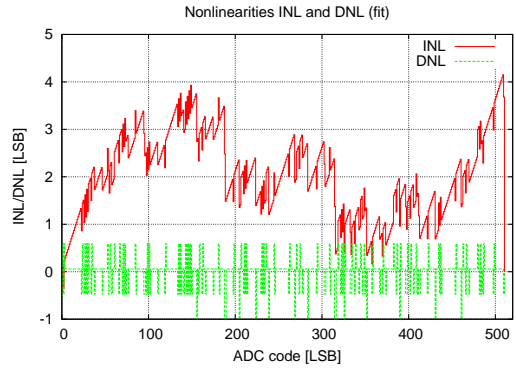
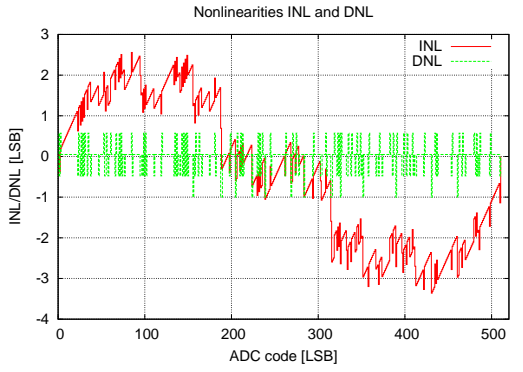
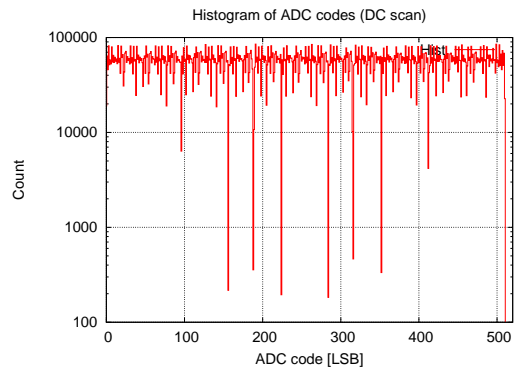
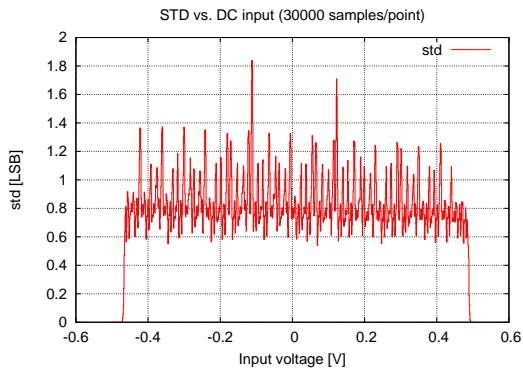
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1125
$+1/4 V_{ref}$	0.1218

Missing Code	Number of apperence
96	4016
156	216
188	1591
224	283
269	20319
284	105
315	4013

Missing Code	Number of apperence
316	3121
333	21573
352	568
367	26859
412	1666
431	26968
461	22362

3.1.2 $f = 3$ MHz





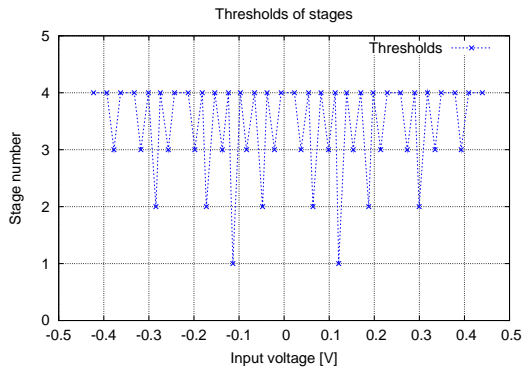
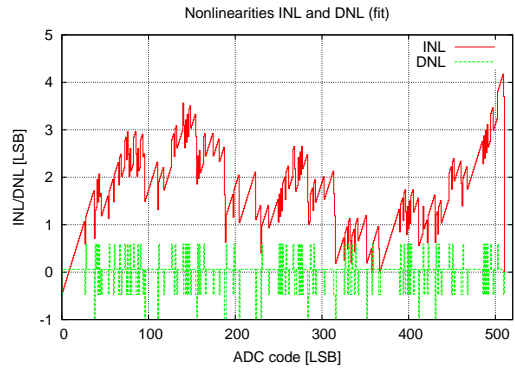
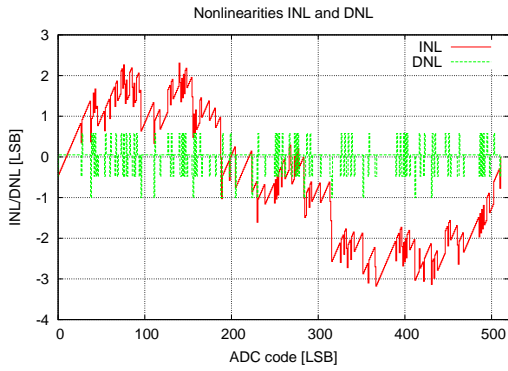
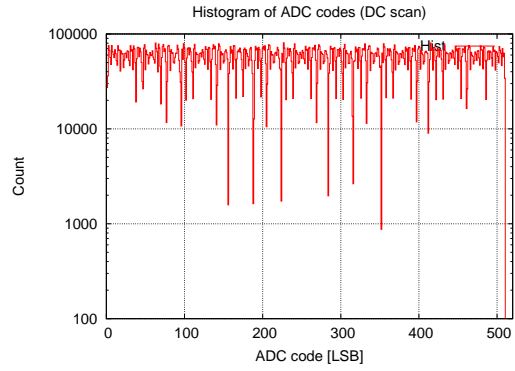
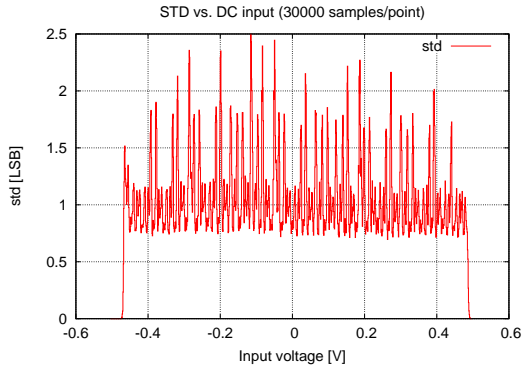
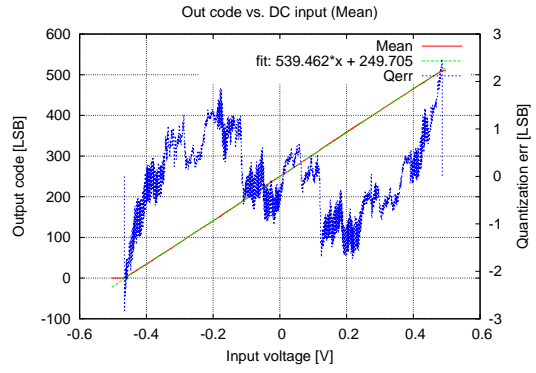
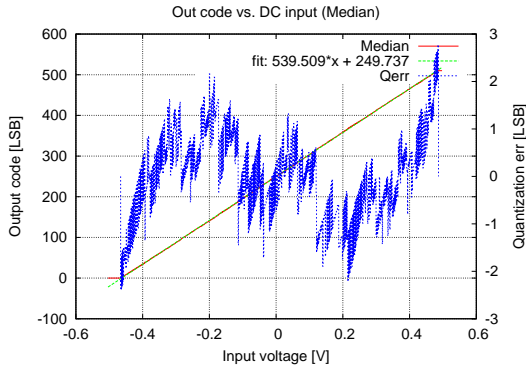
Type	ENOB
XY	6.36
Fit	6.04

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1116
$+1/4 V_{ref}$	0.1221

Missing Code	Number of apperence
156	217
188	357
189	10719
205	19343
224	195
239	26169
269	19178

Missing Code	Number of apperence
284	183
315	10196
316	465
326	23761
352	334
390	23217
431	26321
461	24389

3.1.3 $f = 10$ MHz



Type	ENOB
XY	6.49
Fit	6.27

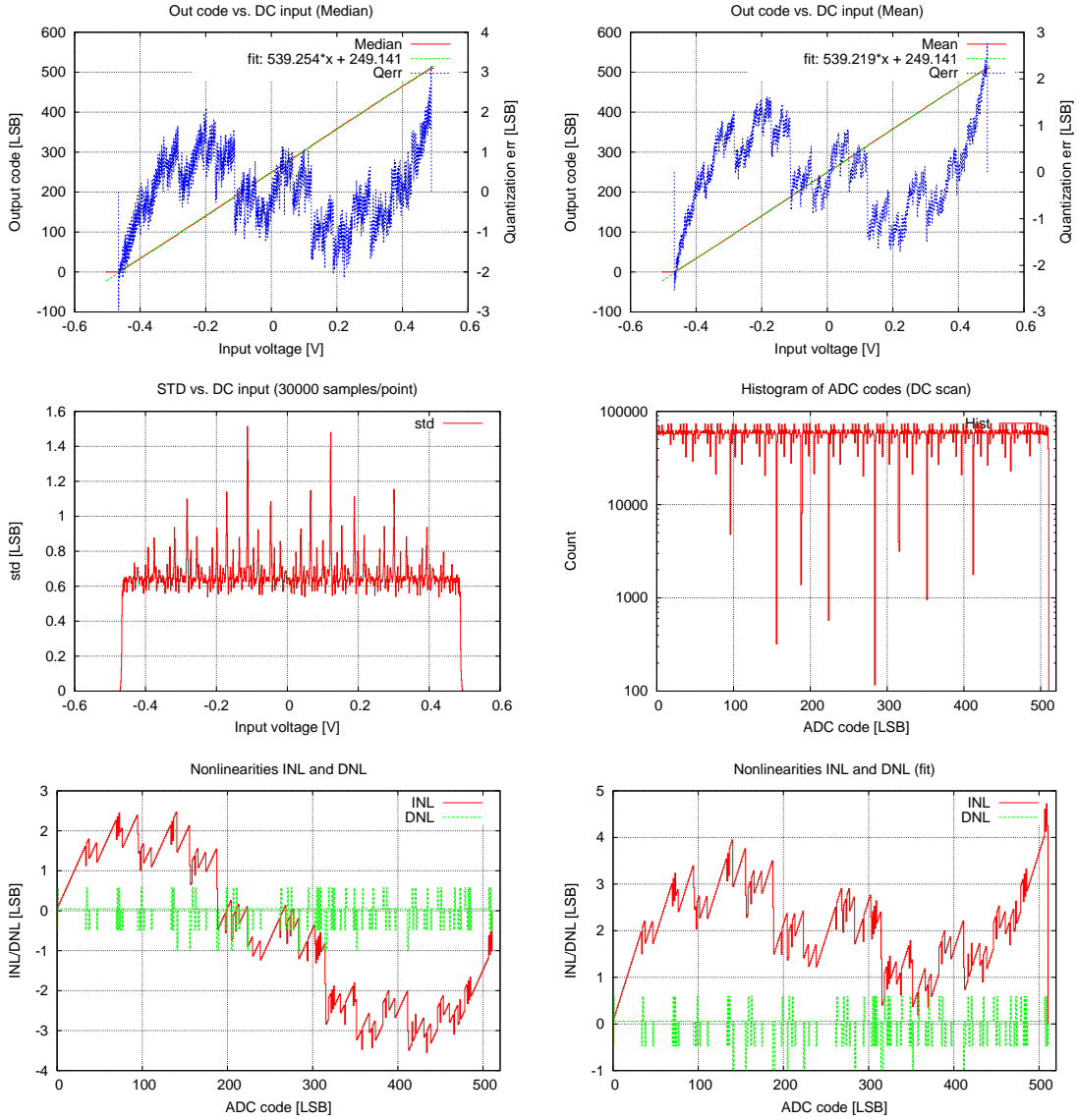
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1137
$+1/4 V_{ref}$	0.1210

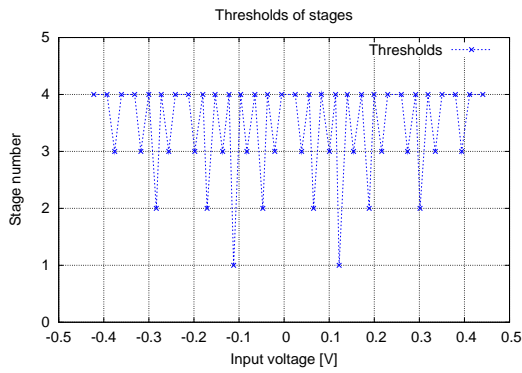
Missing Code	Number of apperence
38	19213
96	10746
111	20804
156	1584
188	1627
189	12745
205	10543

Missing Code	Number of apperence
224	1735
230	20273
284	1969
316	2642
352	875
412	9007
431	20561

3.2 $I_0 = 107\mu\text{A}$

3.2.1 $f = 100\text{ kHz}$





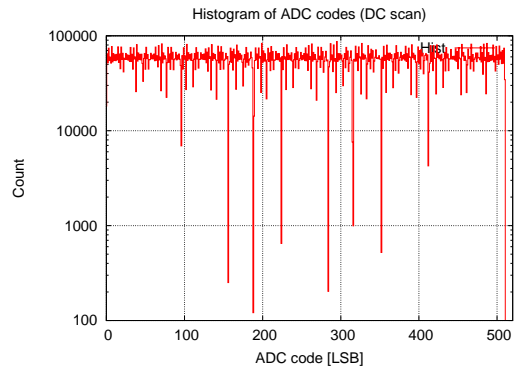
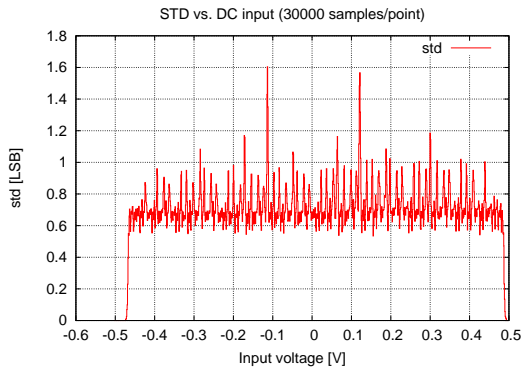
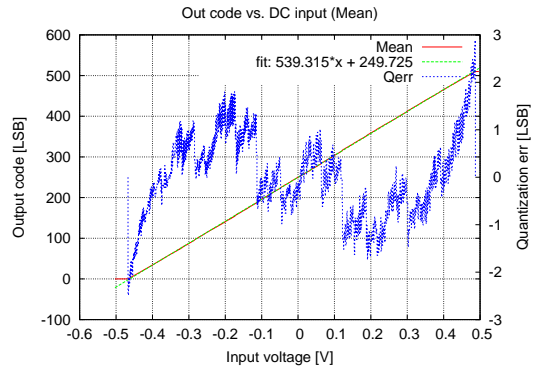
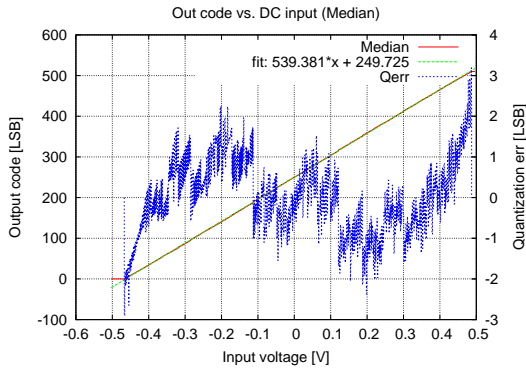
Type	ENOB
XY	6.29
Fit	6.01

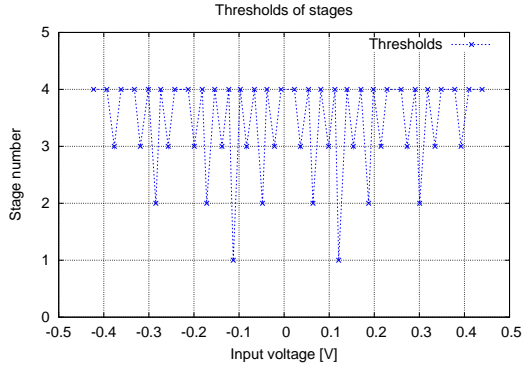
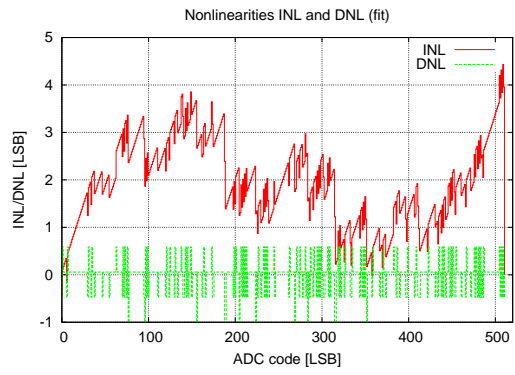
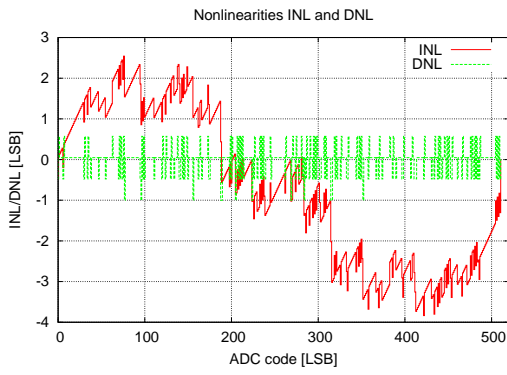
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1120
$+1/4 V_{ref}$	0.1221

Missing Code	Number of apperence
141	20521
156	321
188	1385
189	8121
205	21384

Missing Code	Number of apperence
224	576
284	117
315	3986
316	3157
352	956
412	1783

3.2.2 $f = 3$ MHz





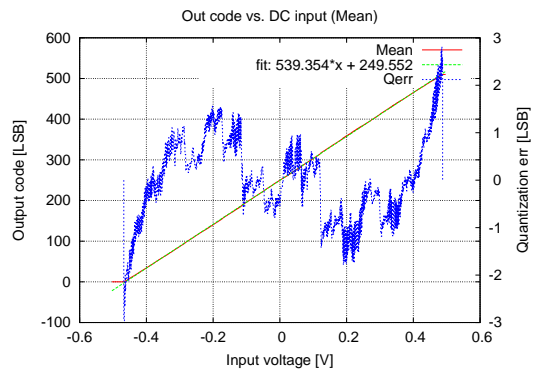
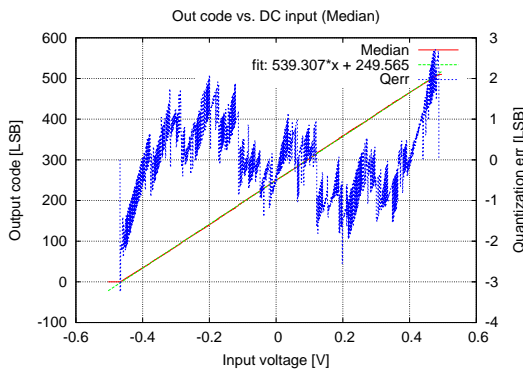
Type	ENOB
XY	6.19
Fit	6.11

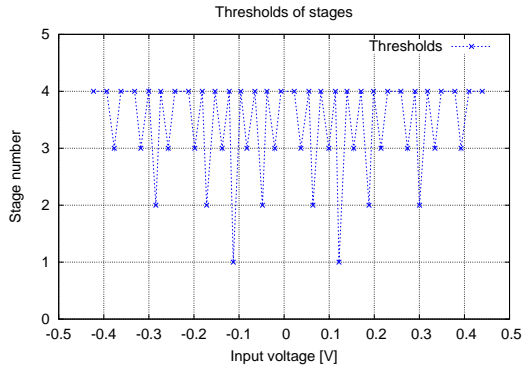
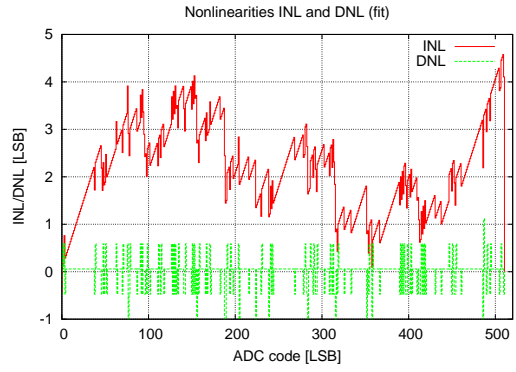
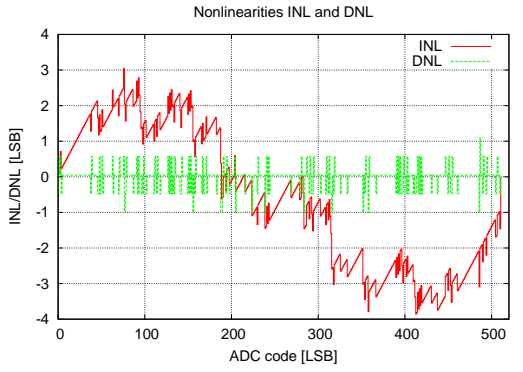
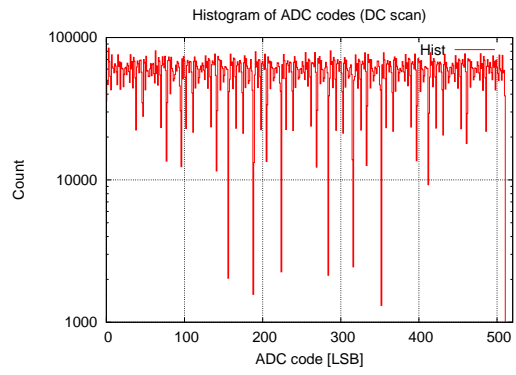
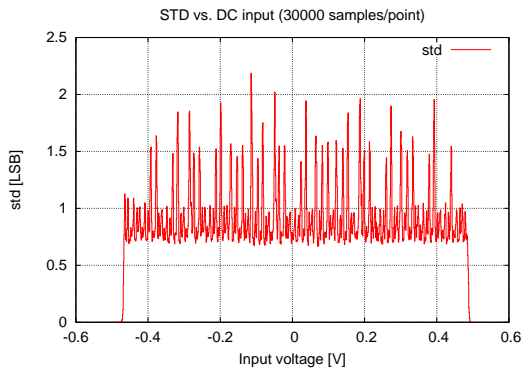
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1129
$+1/4 V_{ref}$	0.1211

Missing Code	Number of apperence
77	22465
96	6930
156	251
188	121
189	14219
205	21645

Missing Code	Number of apperence
224	649
269	20939
284	203
315	7599
316	997
352	521

3.2.3 $f = 10$ MHz





Type	ENOB
XY	6.18
Fit	5.94

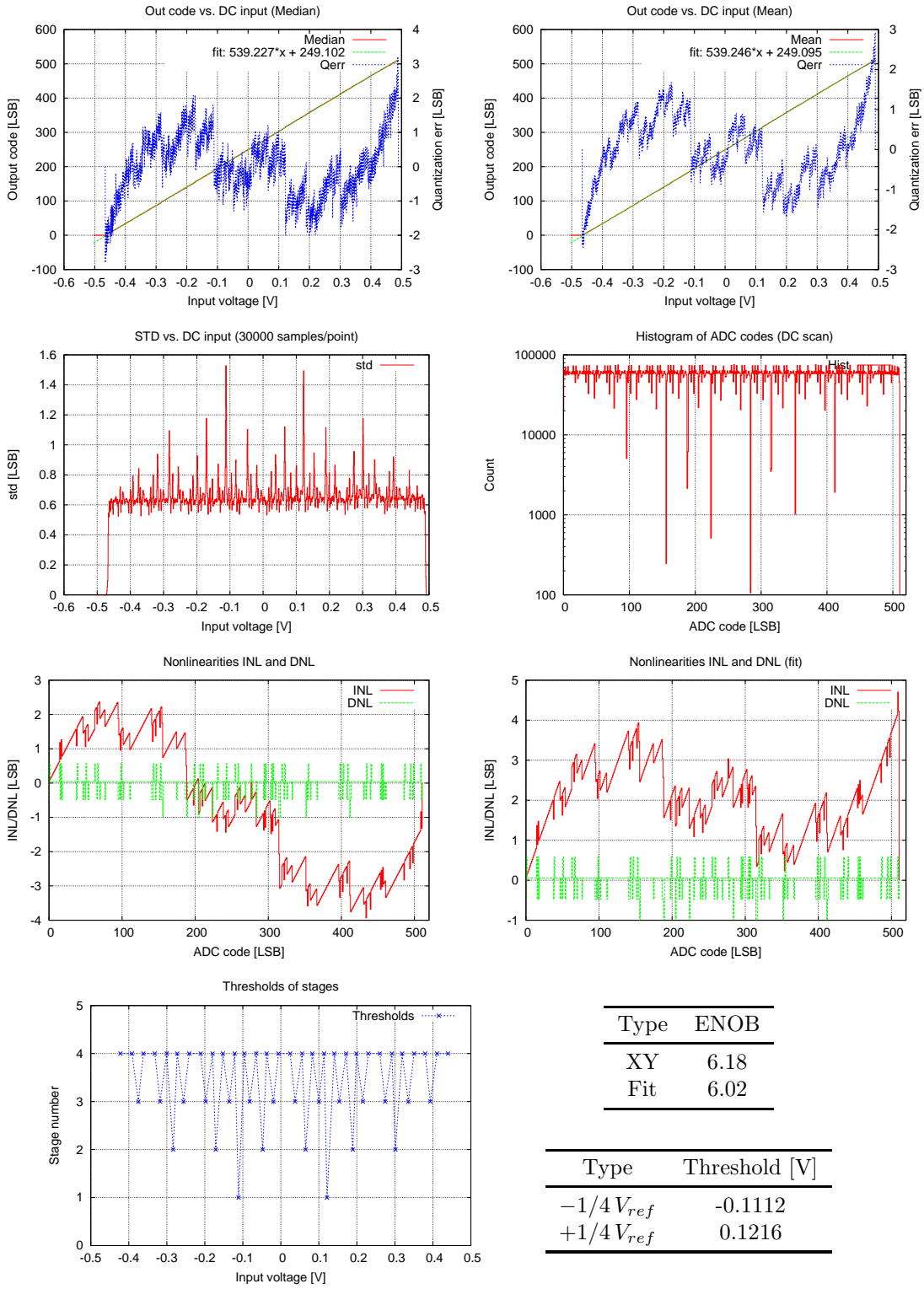
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1129
$+1/4 V_{ref}$	0.1217

Missing Code	Number of apperence
77	13541
156	2040
188	1571
189	13233
205	13503
224	2260

Missing Code	Number of apperence
239	22216
284	2139
316	2450
352	1314
358	23257
486	21957

3.3 $I_0 = 150\mu A$

3.3.1 $f = 100\text{ kHz}$



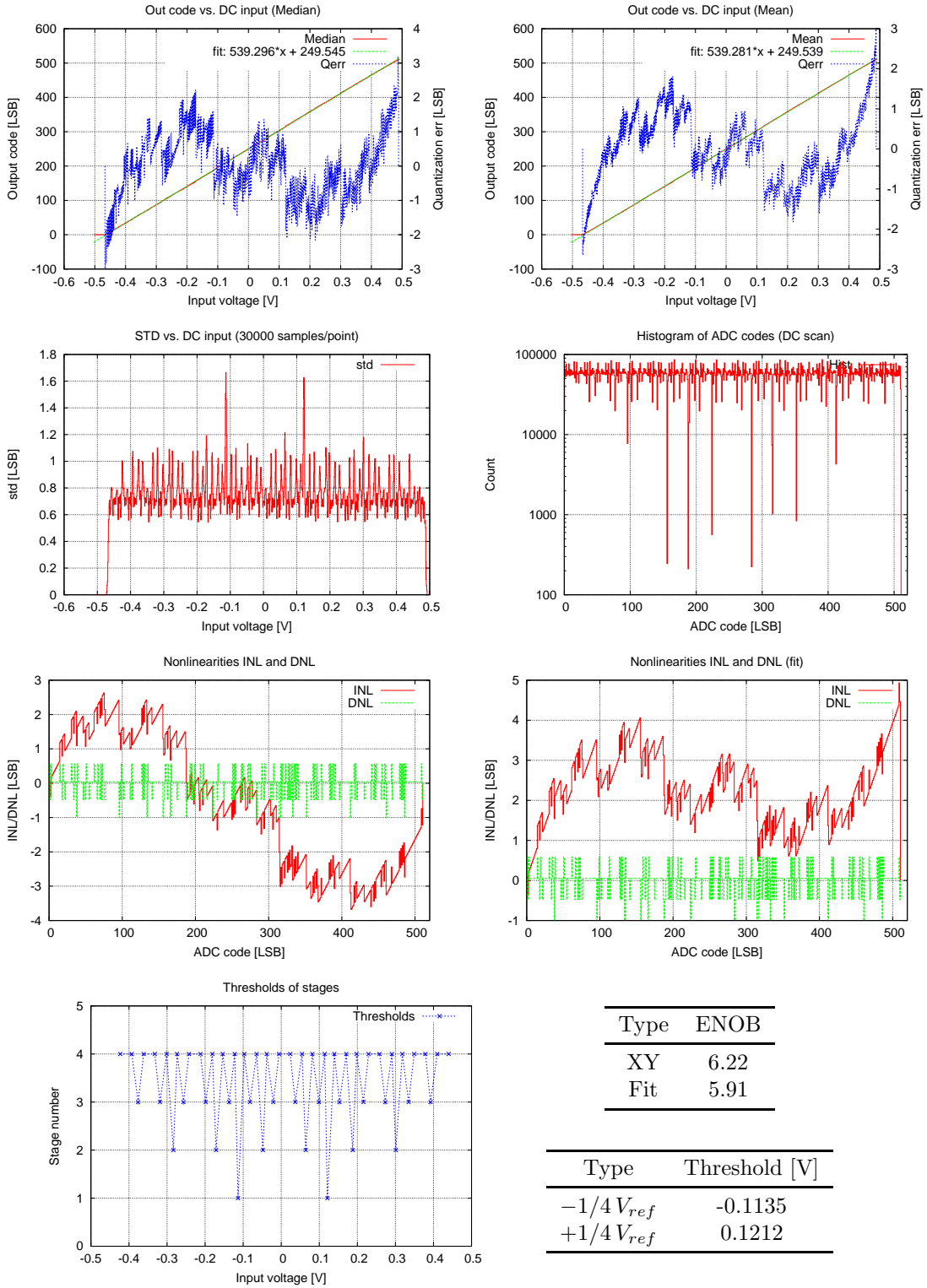
Type	ENOB
XY	6.18
Fit	6.02

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1112
$+1/4 V_{ref}$	0.1216

Missing Code	Number of appearance
156	247
189	6141
205	21851
224	513

Missing Code	Number of appearance
284	106
315	3498
316	3783
352	1022
412	1917

3.3.2 $f = 3$ MHz



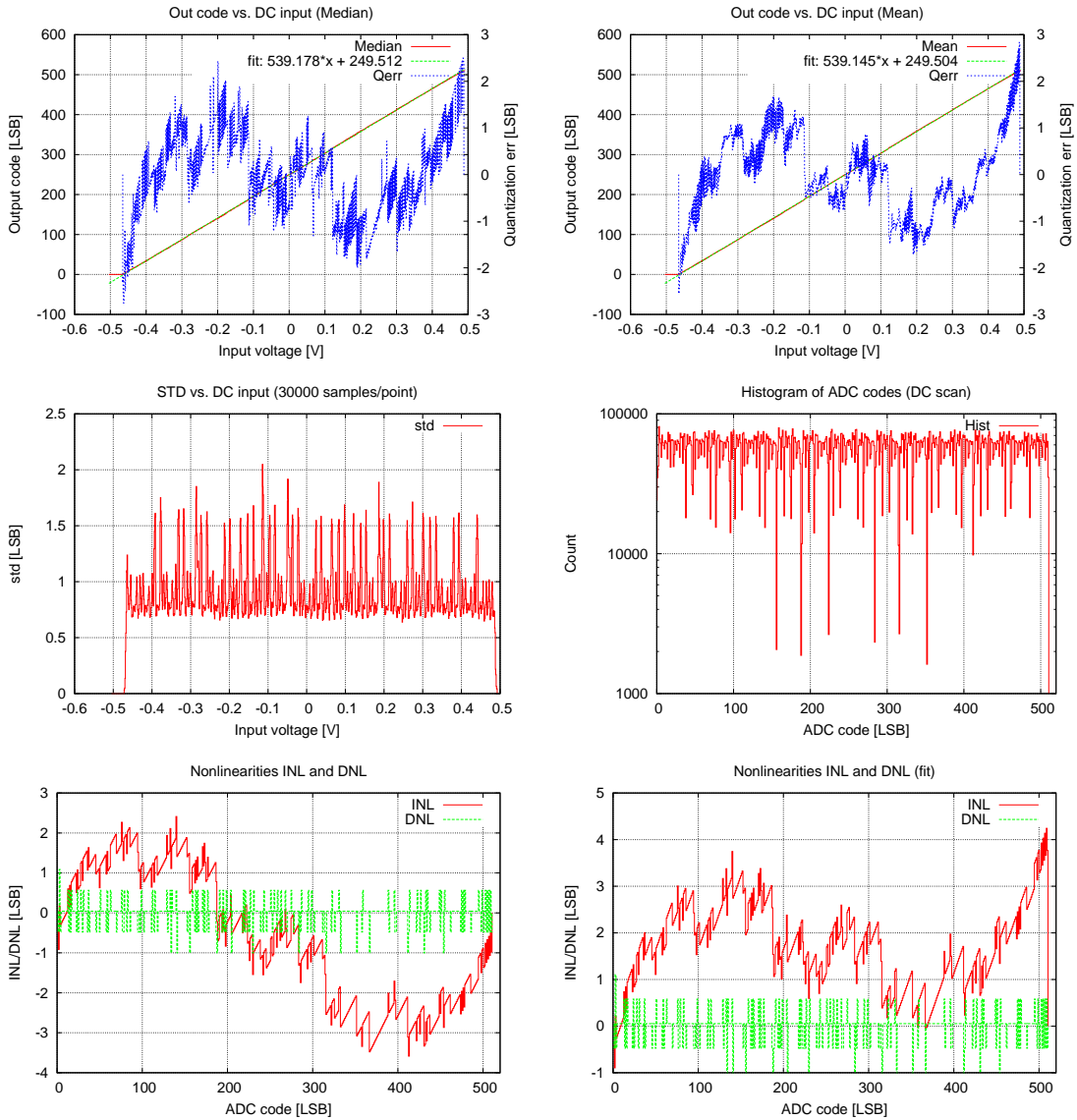
Type	ENOB
XY	6.22
Fit	5.91

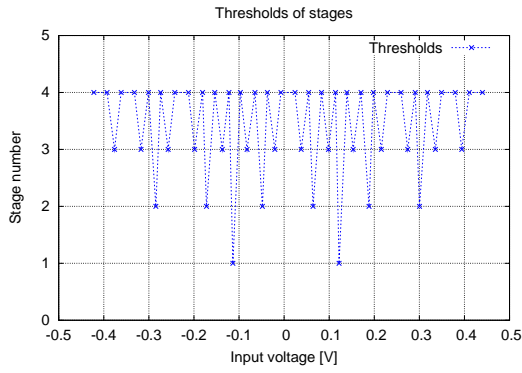
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1135
$+1/4 V_{ref}$	0.1212

Missing Code	Number of apperence
38	25651
96	7734
134	25315
156	245
166	25685
188	211
224	563

Missing Code	Number of apperence
284	224
315	7396
316	1023
333	20017
352	839
412	4297
461	24431
486	24530

3.3.3 $f = 10$ MHz





Type	ENOB
XY	6.37
Fit	6.22

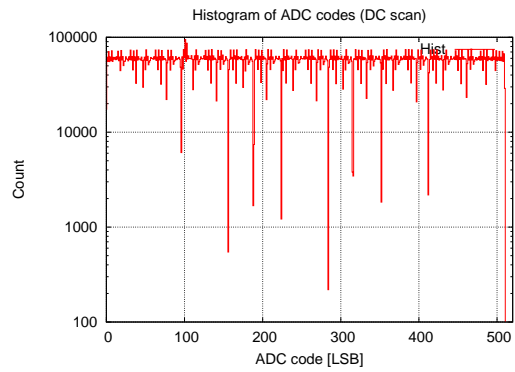
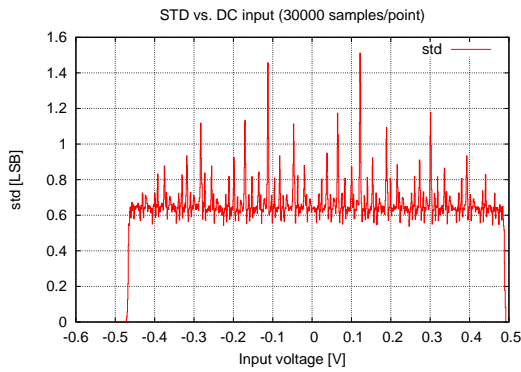
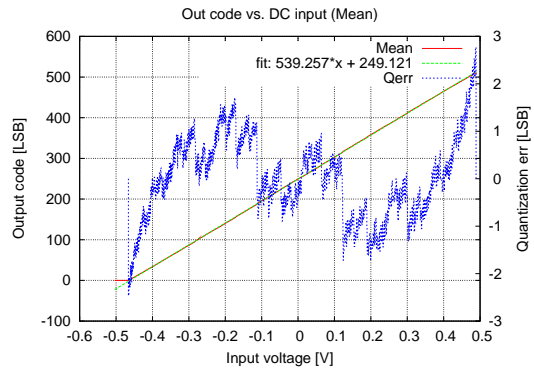
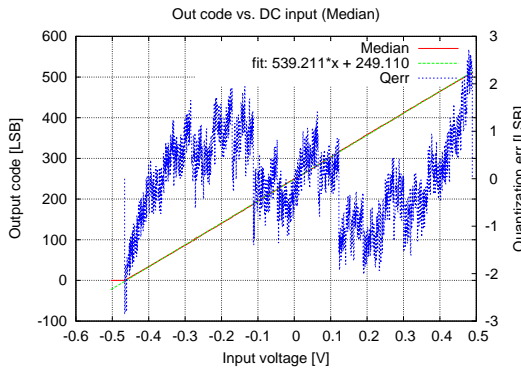
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1137
$+1/4 V_{ref}$	0.1218

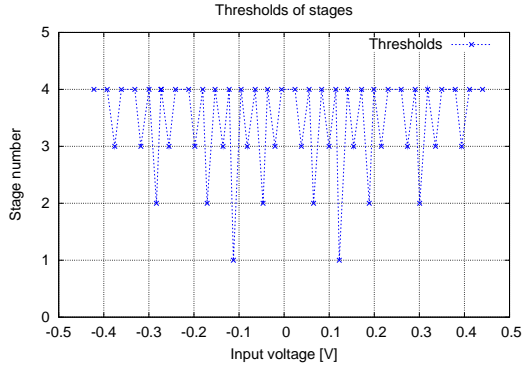
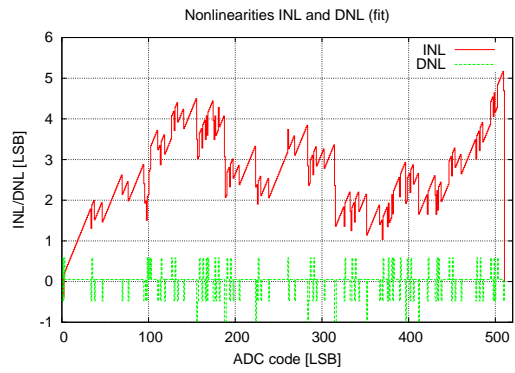
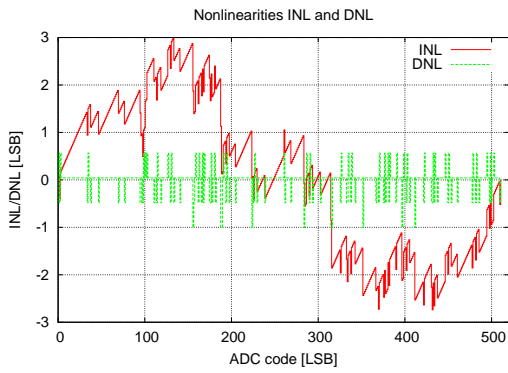
Missing Code	Number of apperence
134	18548
141	15404
156	2065
188	1877
205	14071
230	18788
284	2332

Missing Code	Number of apperence
316	2677
333	13855
352	1622
367	21445
412	9802
431	20730
454	18516

3.4 $I_0 = 210\mu A$

3.4.1 $f = 100\text{ kHz}$





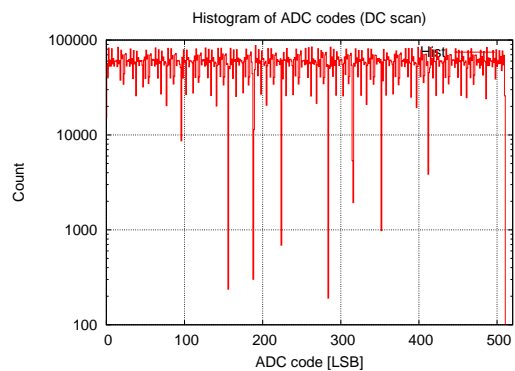
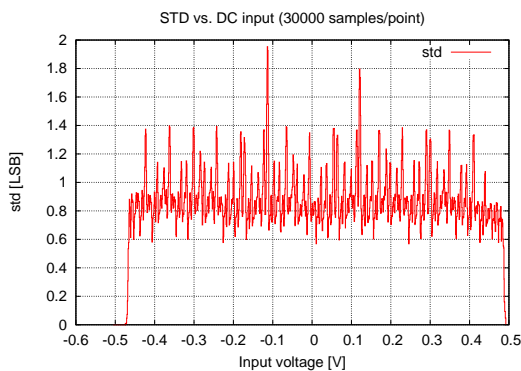
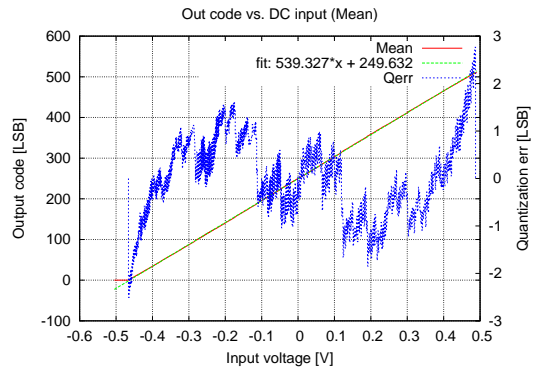
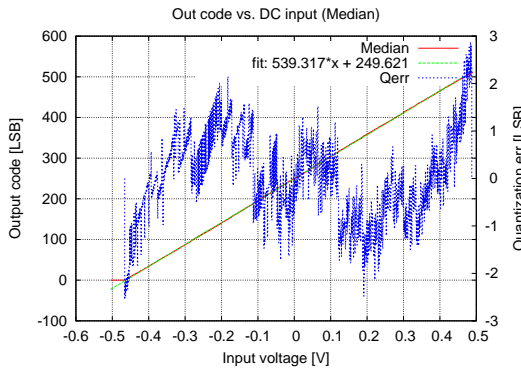
Type	ENOB
XY	6.52
Fit	5.70

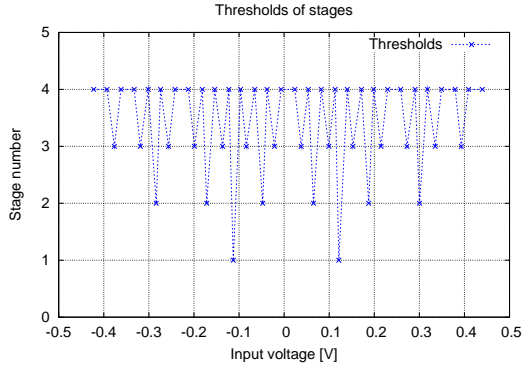
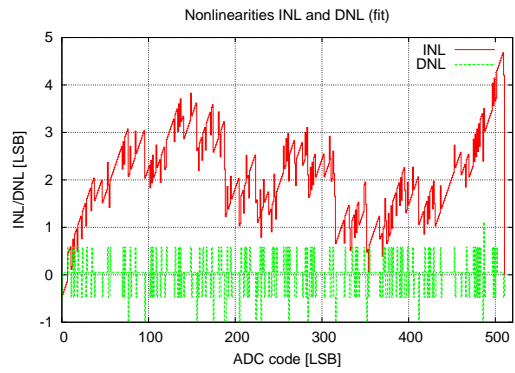
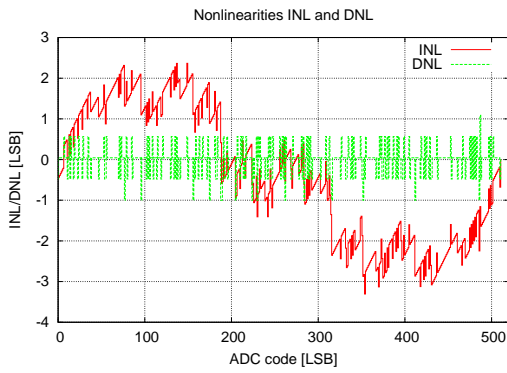
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1125
$+1/4 V_{ref}$	0.1225

Missing Code	Number of apperence
156	546
188	1683
189	7424
224	1217
284	219

Missing Code	Number of apperence
315	3801
316	3452
352	1834
397	20873
412	2182

3.4.2 $f = 3$ MHz





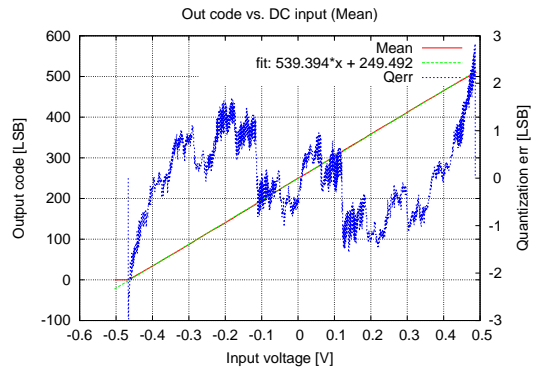
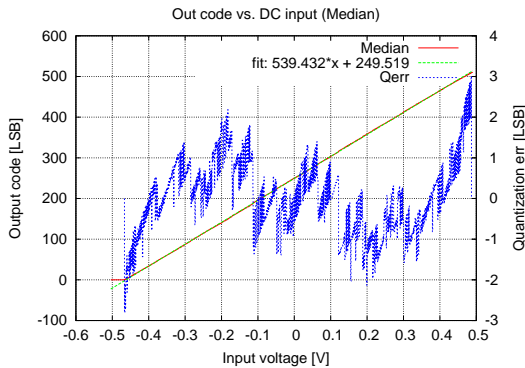
Type	ENOB
XY	6.46
Fit	6.03

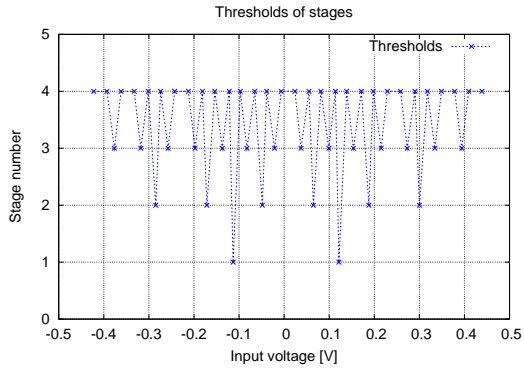
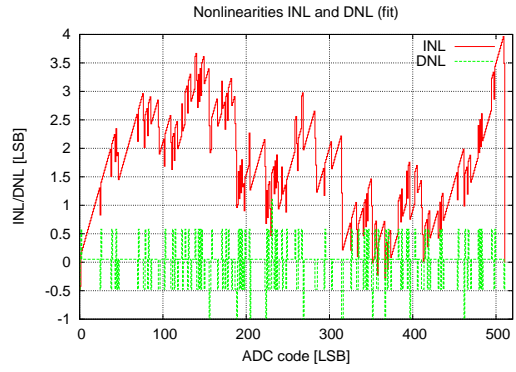
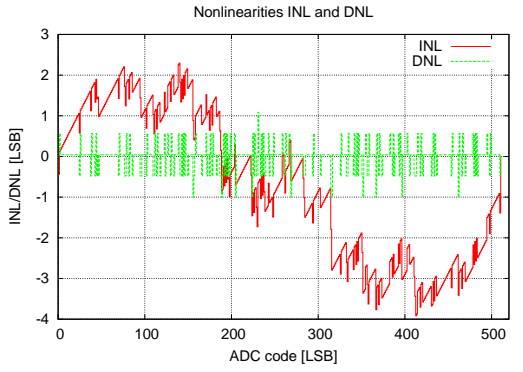
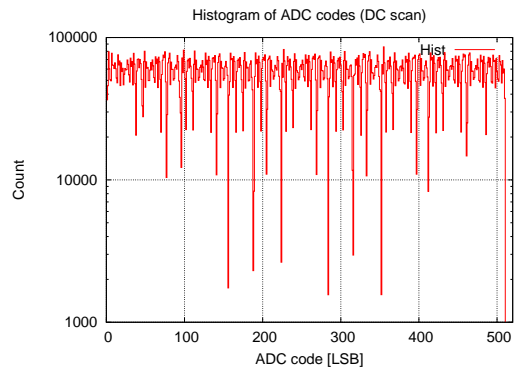
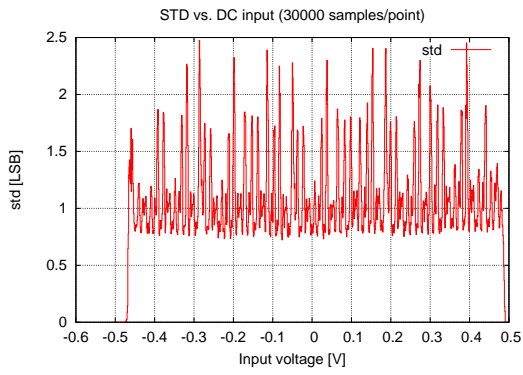
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1129
$+1/4 V_{ref}$	0.1214

Missing Code	Number of apperence
77	20359
96	8679
156	237
175	27773
188	302
189	11355
205	20575

Missing Code	Number of apperence
224	690
230	25967
262	25736
284	191
316	1934
352	982
412	3859
486	24119

3.4.3 $f = 10$ MHz





Type	ENOB
XY	6.22
Fit	6.23

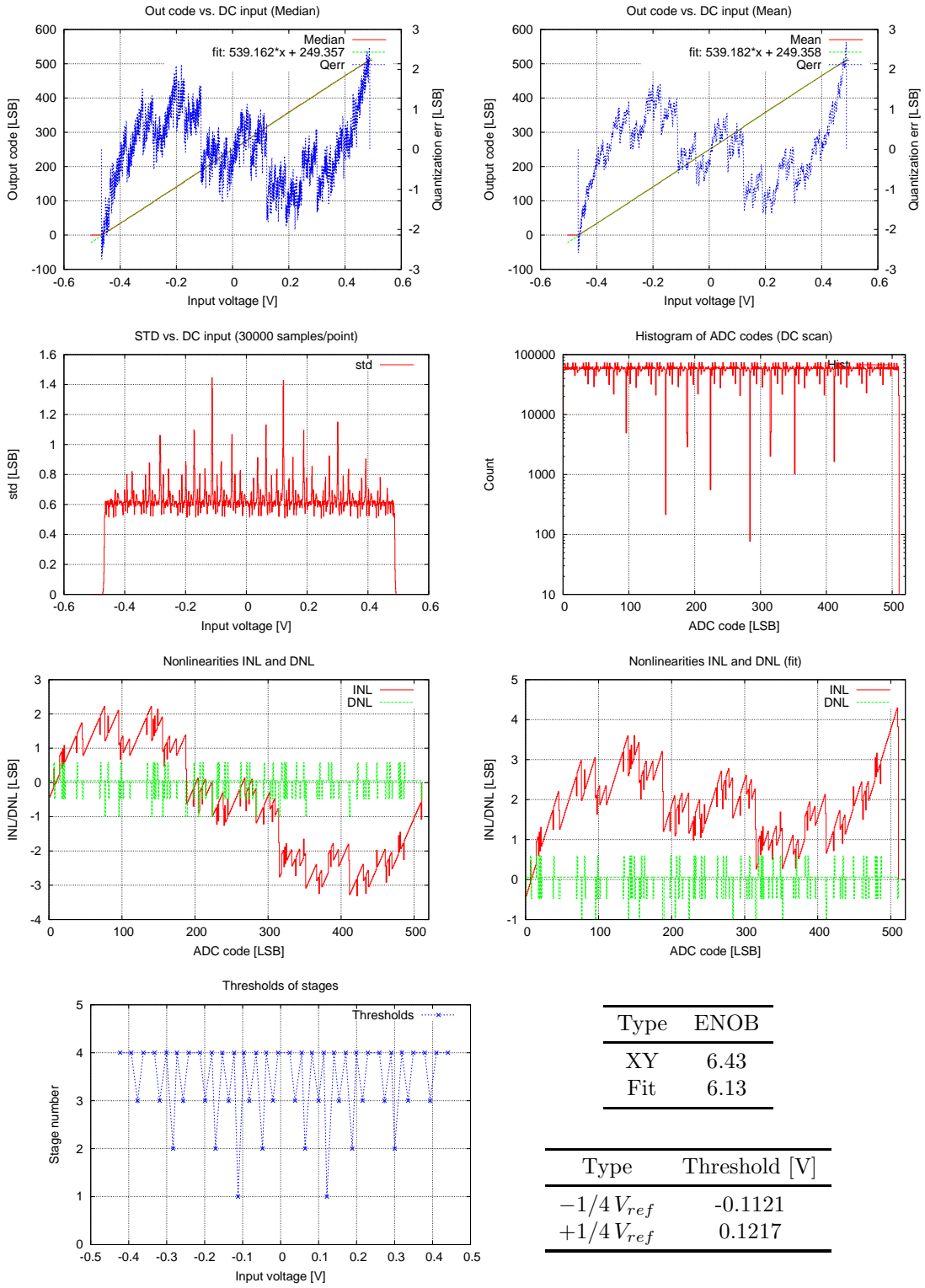
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1131
$+1/4 V_{ref}$	0.1215

Missing Code	Number of apperence
156	1743
189	8321
205	10965
224	2641
269	10908

Missing Code	Number of apperence
315	11675
316	2963
352	1562
367	22584
397	10968
462	25151

3.5 $I_0 = 300\mu\text{A}$

3.5.1 $f = 100\text{ kHz}$



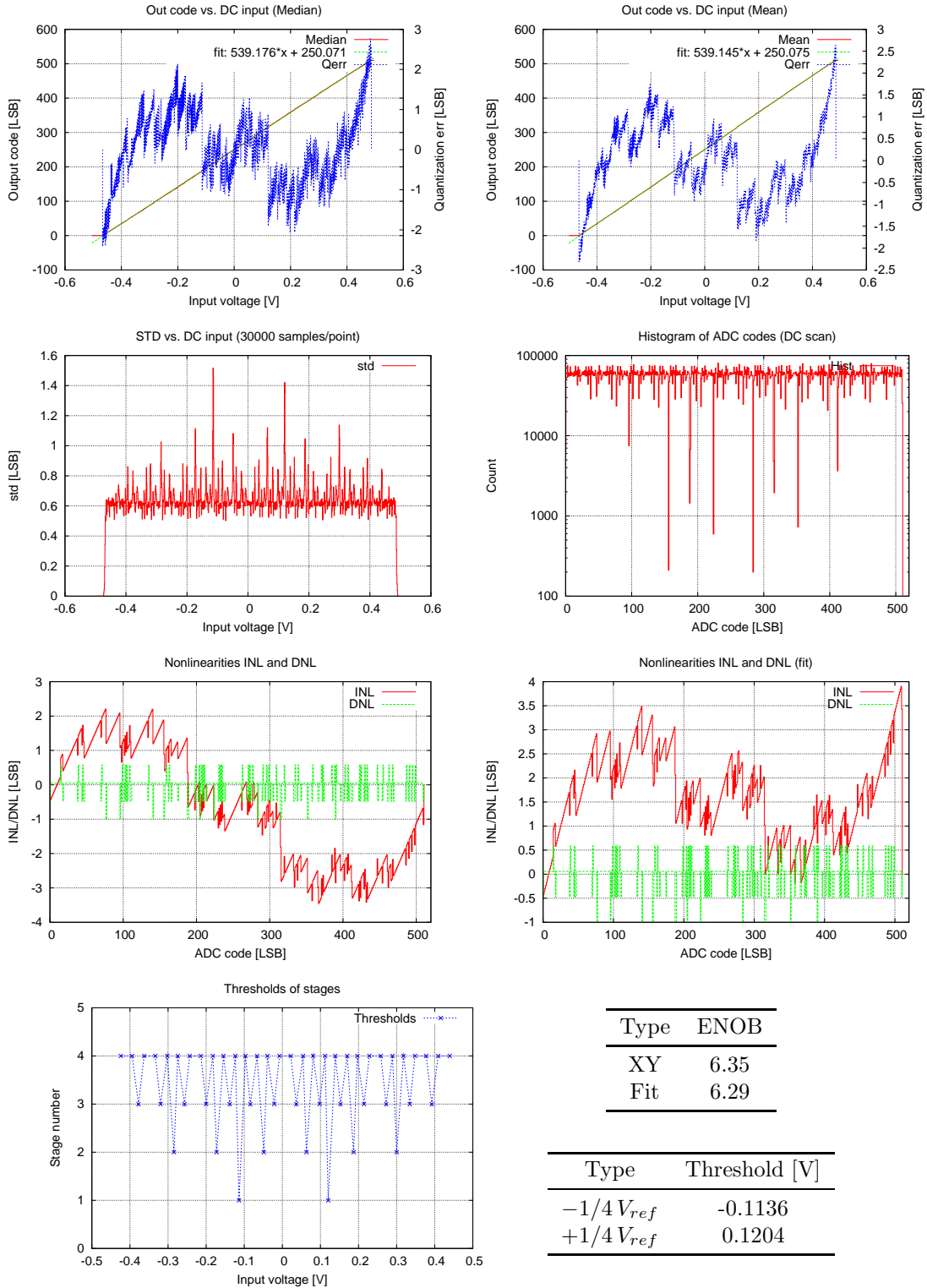
Type	ENOB
XY	6.43
Fit	6.13

Type	Threshold [V]
$-1/4 V_{ref}$	-0.1121
$+1/4 V_{ref}$	0.1217

Missing Code	Number of apperence
77	21976
96	4950
141	21117
156	215
188	4899
189	2888

Missing Code	Number of apperence
205	22133
224	556
284	77
315	2015
316	5103
352	1031
412	1645

3.5.2 $f = 3$ MHz



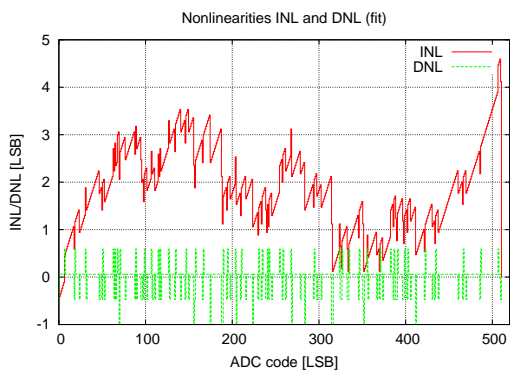
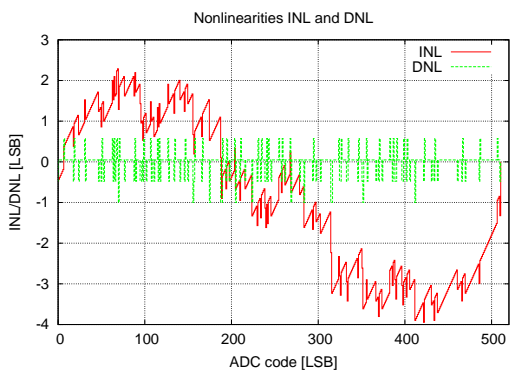
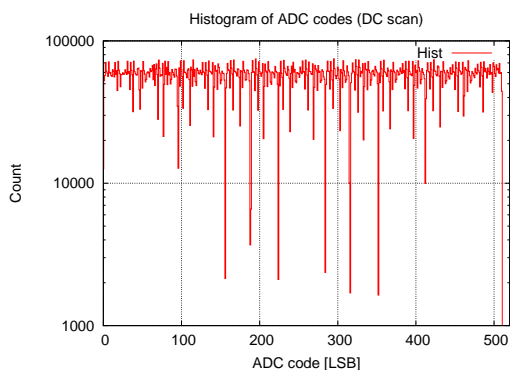
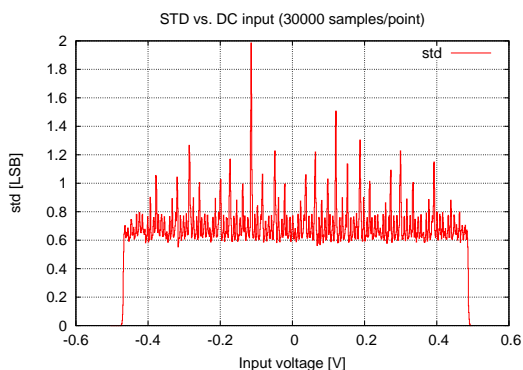
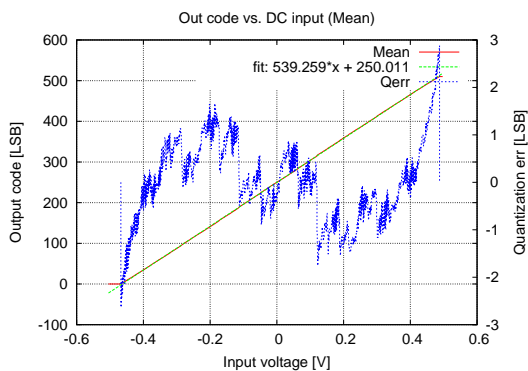
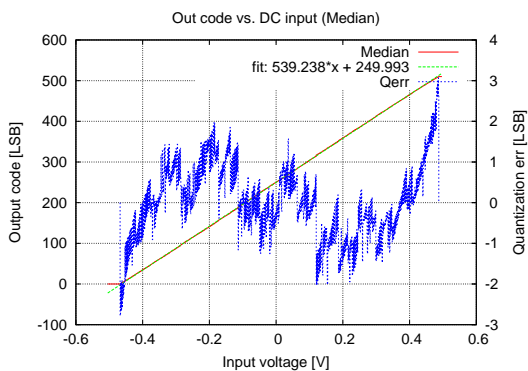
Type	ENOB
XY	6.35
Fit	6.29

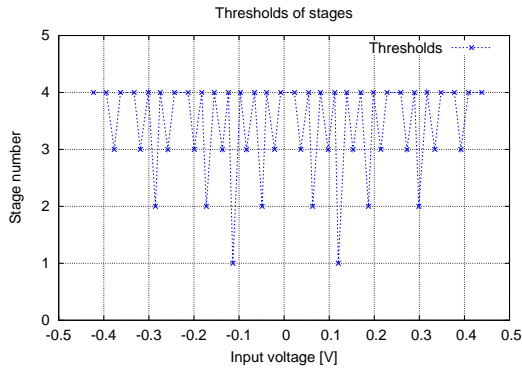
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1136
$+1/4 V_{ref}$	0.1204

Missing Code	Number of apperence
77	23450
96	7530
141	22602
156	211
188	1446
189	6751

Missing Code	Number of apperence
205	23047
224	596
284	199
315	4827
316	1947
352	727
390	27300

3.5.3 $f = 10$ MHz





Type	ENOB
XY	6.15
Fit	6.15

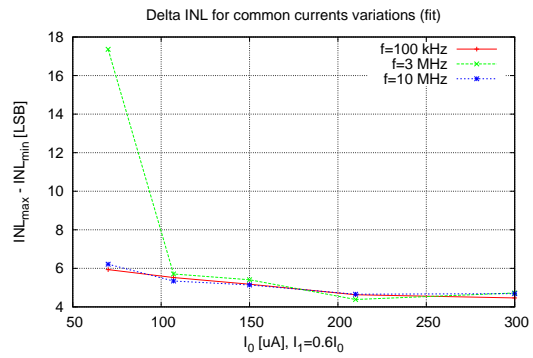
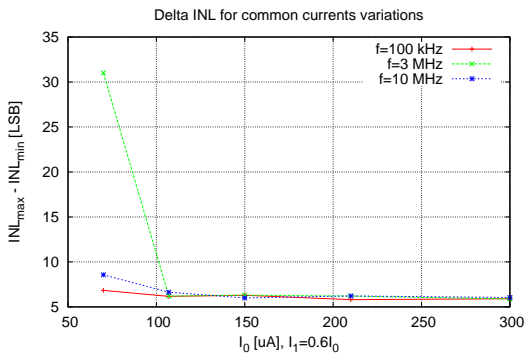
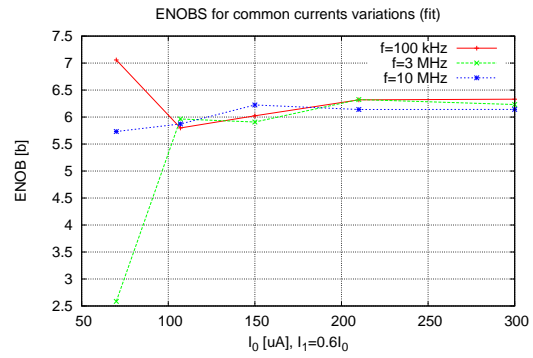
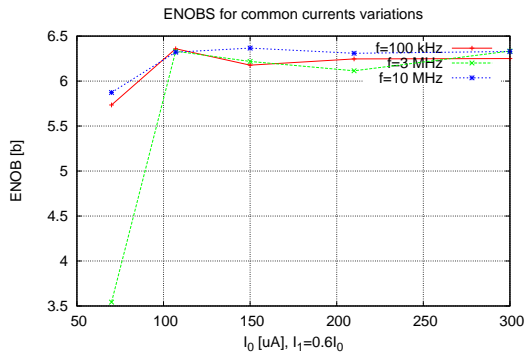
Type	Threshold [V]
$-1/4 V_{ref}$	-0.1138
$+1/4 V_{ref}$	0.1202

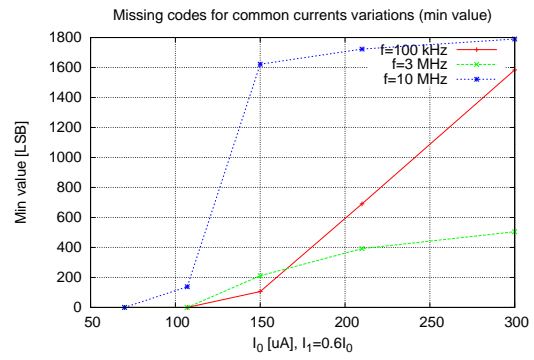
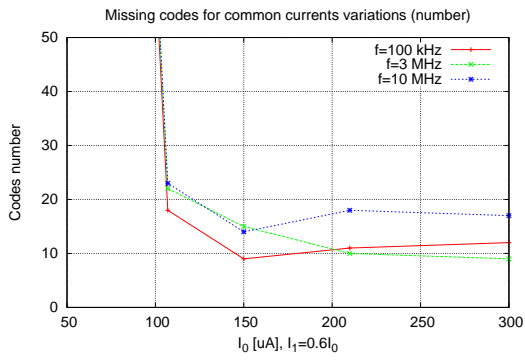
Missing Code	Number of apperence
70	28107
156	2143
175	25238
188	3689
189	6581
205	20568

Missing Code	Number of apperence
224	2108
269	20340
284	2365
315	10026
316	1698
352	1639
412	9992

4 Summary

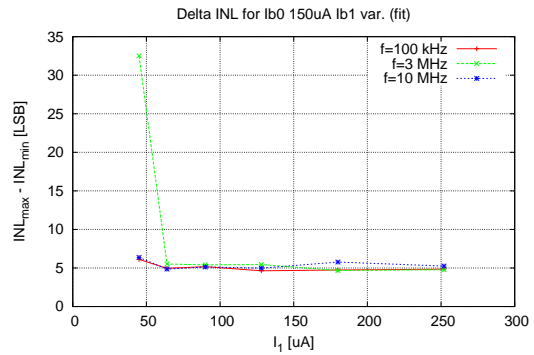
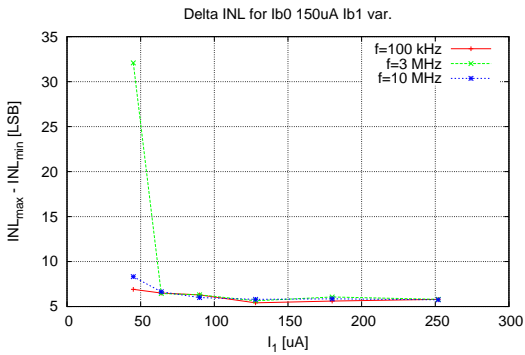
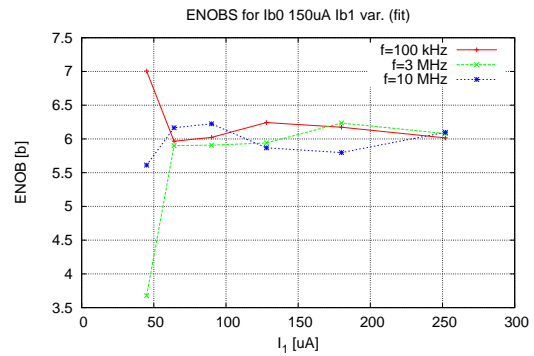
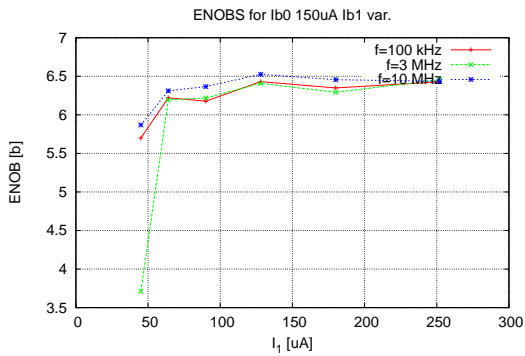
4.1 Simultaneous changes

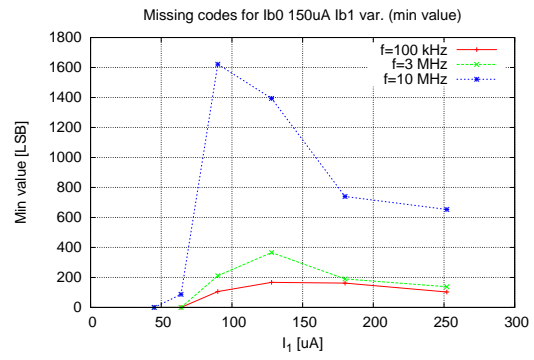
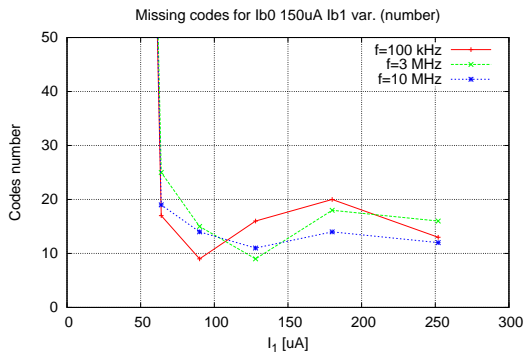




$I_0 [\mu A], I_1 = 0.6I_0$	100 kHz		3 MHz		10 MHz	
	$TH_{low} [V]$	$TH_{high} [V]$	$TH_{low} [V]$	$TH_{high} [V]$	$TH_{low} [V]$	$TH_{high} [V]$
1	-0.1118	0.1222	-0.1127	0.1208	-0.1129	0.1218
2	-0.1113	0.1221	-0.1127	0.1212	-0.1127	0.1218
3	-0.1112	0.1216	-0.1135	0.1211	-0.1137	0.1218
4	-0.1118	0.1215	-0.1137	0.1217	-0.1128	0.1216
5	-0.1118	0.1219	-0.1136	0.1217	-0.1139	0.1217

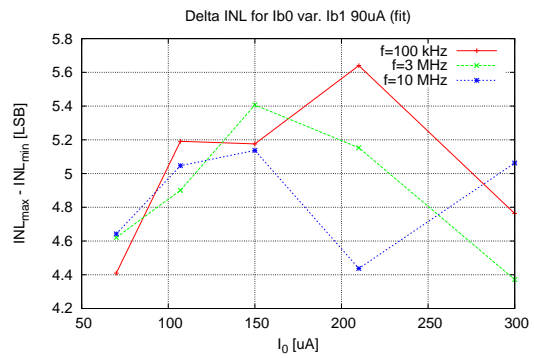
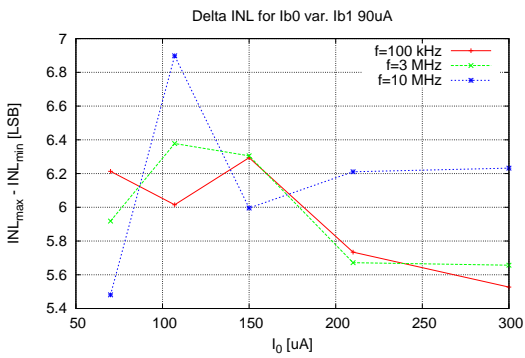
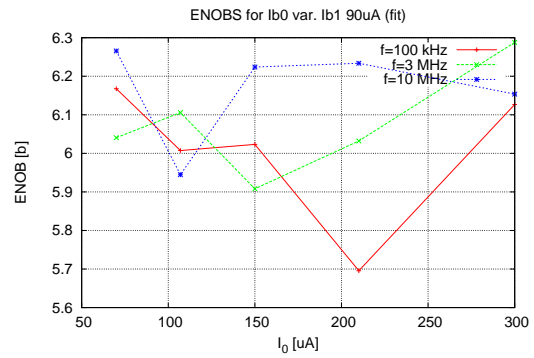
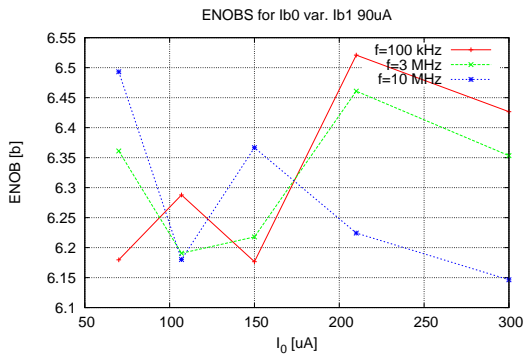
4.2 $I_0 = 150 \mu A$ and constant

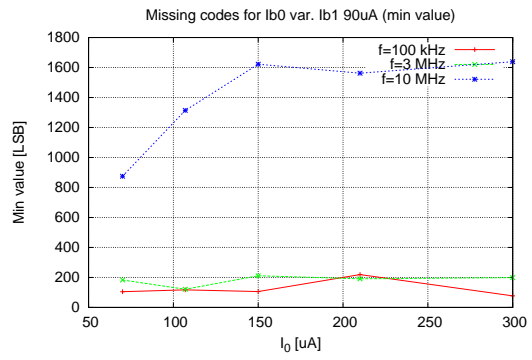
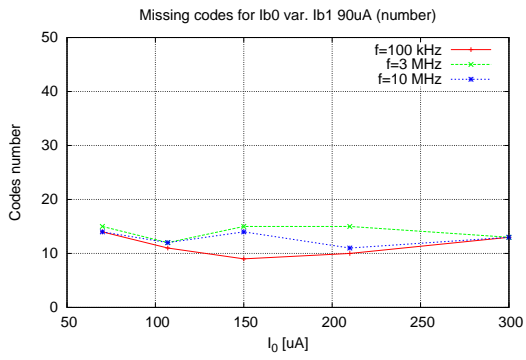




I_1 [uA]	100 kHz		3 MHz		10 MHz	
	TH_{low} [V]	TH_{high} [V]	TH_{low} [V]	TH_{high} [V]	TH_{low} [V]	TH_{high} [V]
1.0	-0.1123	0.1210	-0.1145	0.1201	-0.1142	0.1197
2.0	-0.1114	0.1224	-0.1134	0.1212	-0.1133	0.1214
3.0	-0.1112	0.1216	-0.1135	0.1211	-0.1137	0.1218
4.0	-0.1127	0.1218	-0.1132	0.1207	-0.1144	0.1205
5.0	-0.1122	0.1213	-0.1143	0.1197	-0.1150	0.1202
6.0	-0.1128	0.1213	-0.1143	0.1194	-0.1152	0.1197

4.3 $I_1 = 90\mu\text{A}$ and constant





I_0 [uA]	100 kHz		3 MHz		10 MHz	
	TH_{low} [V]	TH_{high} [V]	TH_{low} [V]	TH_{high} [V]	TH_{low} [V]	TH_{high} [V]
1.0	-0.1125	0.1218	-0.1116	0.1221	-0.1137	0.1210
2.0	-0.1120	0.1221	-0.1129	0.1211	-0.1129	0.1217
3.0	-0.1112	0.1216	-0.1135	0.1211	-0.1137	0.1218
4.0	-0.1125	0.1225	-0.1129	0.1214	-0.1131	0.1216
5.0	-0.1121	0.1216	-0.1136	0.1204	-0.1138	0.1202