

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10864 - L2 Version 2
Chandra X-Ray Center

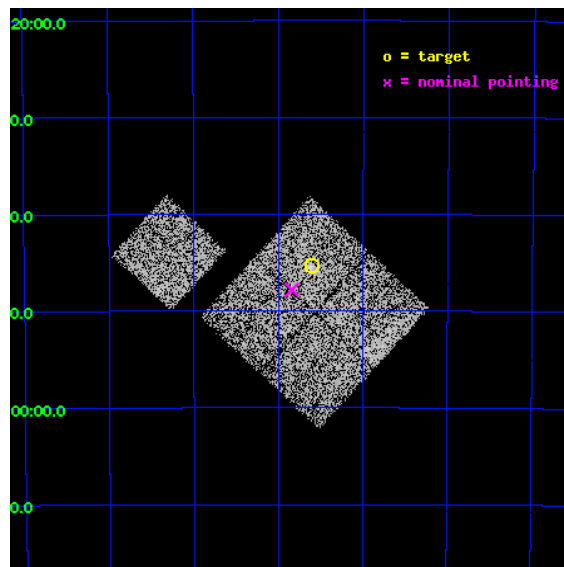
L2 Processing Date : Jun 1 2012

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1 Front

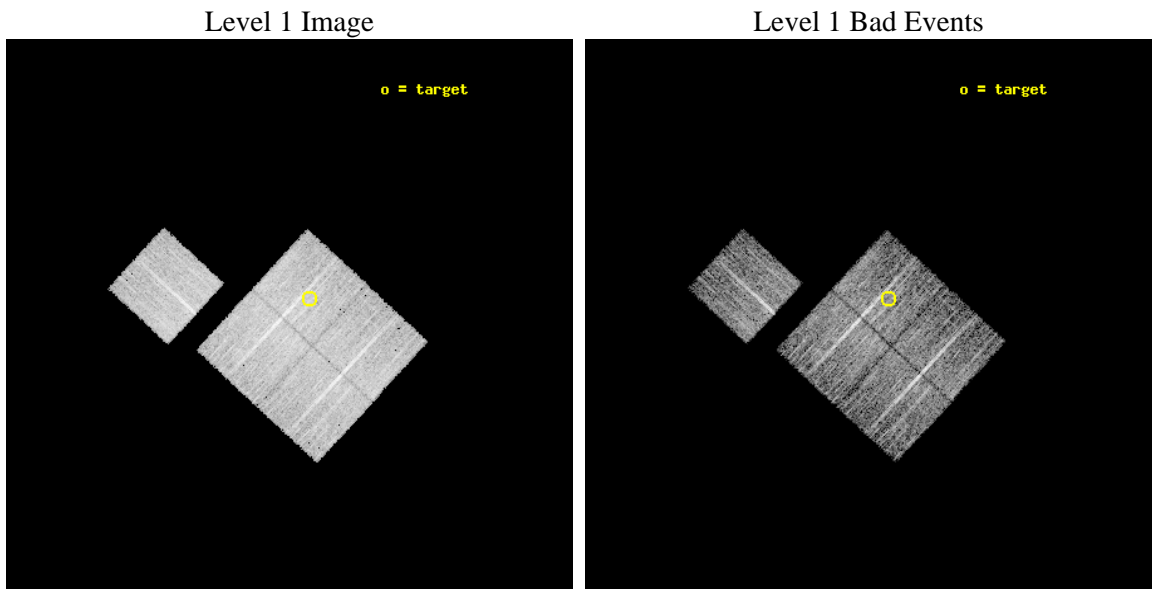
seq_num	800669	Sequence number
obs_id	10864	Observation id
title	Chandra Observations of SZ-selected Galaxy Clusters Detected by the South Pole Telescope	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SPT-CL 0547-5345	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	86.65	Observer's specified target RA [deg]
dec_targ	-53.756	Observer's specified target Dec [deg]
ra_nom	86.710073519673	Nominal RA [deg]
dec_nom	-53.797155448541	Nominal Dec [deg]
roll_nom	312.75715965712	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5837.2590845823	Sum of GTIs [s]
livetime	5760.9909973146	Livetime [s]
ontime0	5840.4000449181	Sum of GTIs [s]
ontime1	5840.4000449181	Sum of GTIs [s]
ontime2	5840.4000449181	Sum of GTIs [s]
ontime3	5837.2590845823	Sum of GTIs [s]
ontime6	5840.4000449181	Sum of GTIs [s]
l2events	21239	Number of level 2 events



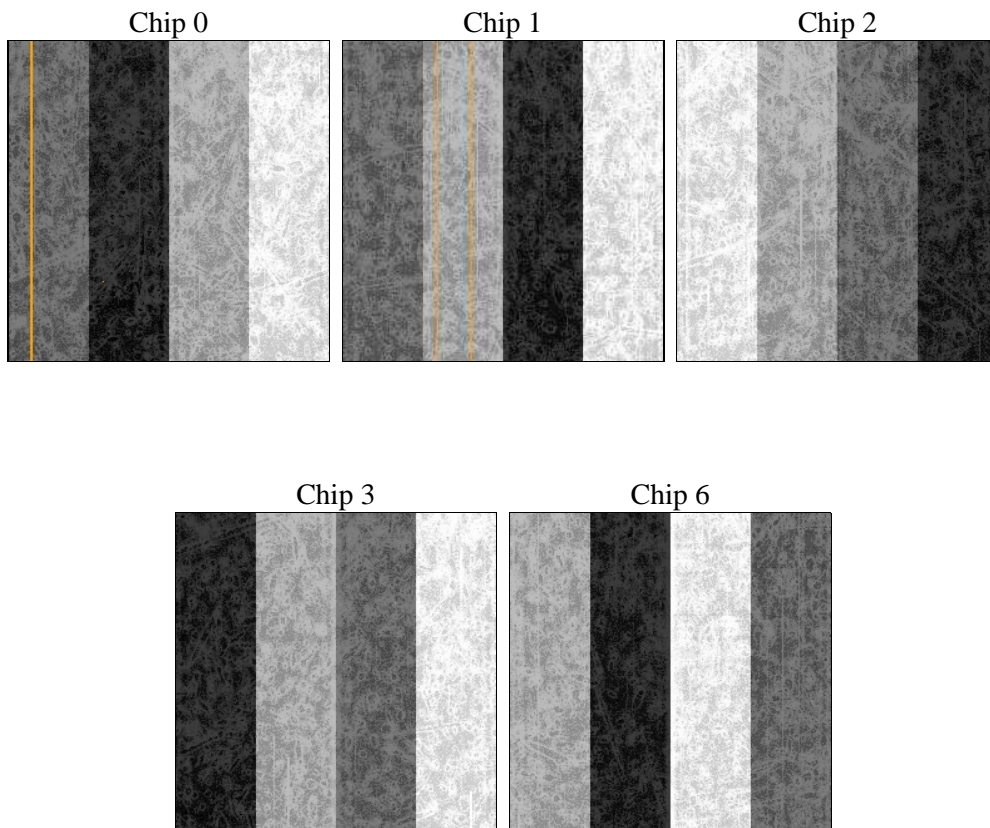
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5837.2590845823	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	5840.4000449181	Sum of GTIs [s]
date	2012-06-01T05:59:38	Date and time of file creation	ontime1	5840.4000449181	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5840.4000449181	Sum of GTIs [s]
			ontime3	5837.2590845823	Sum of GTIs [s]
			ontime6	5840.4000449181	Sum of GTIs [s]
			l1events	263057	Number of level 1 events

2.1.4 Events

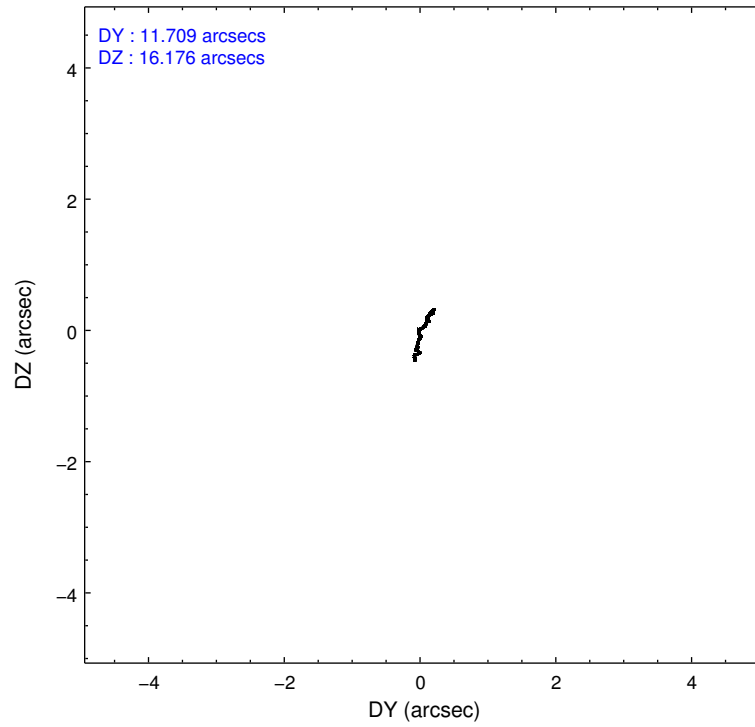
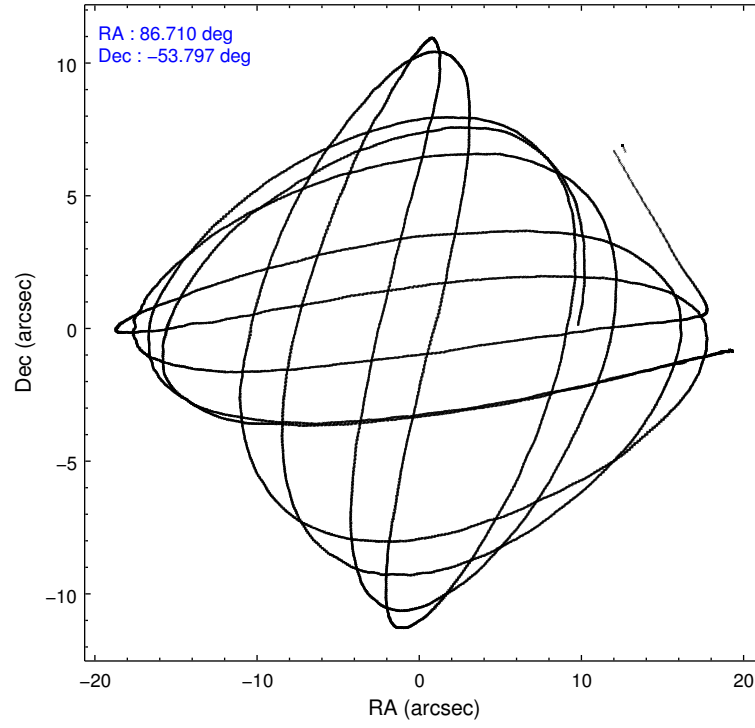
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	49664	49440	57093	54590	52270
rejected events	44662	43902	52109	49638	47232
rejected %	89%	88%	91%	90%	90%

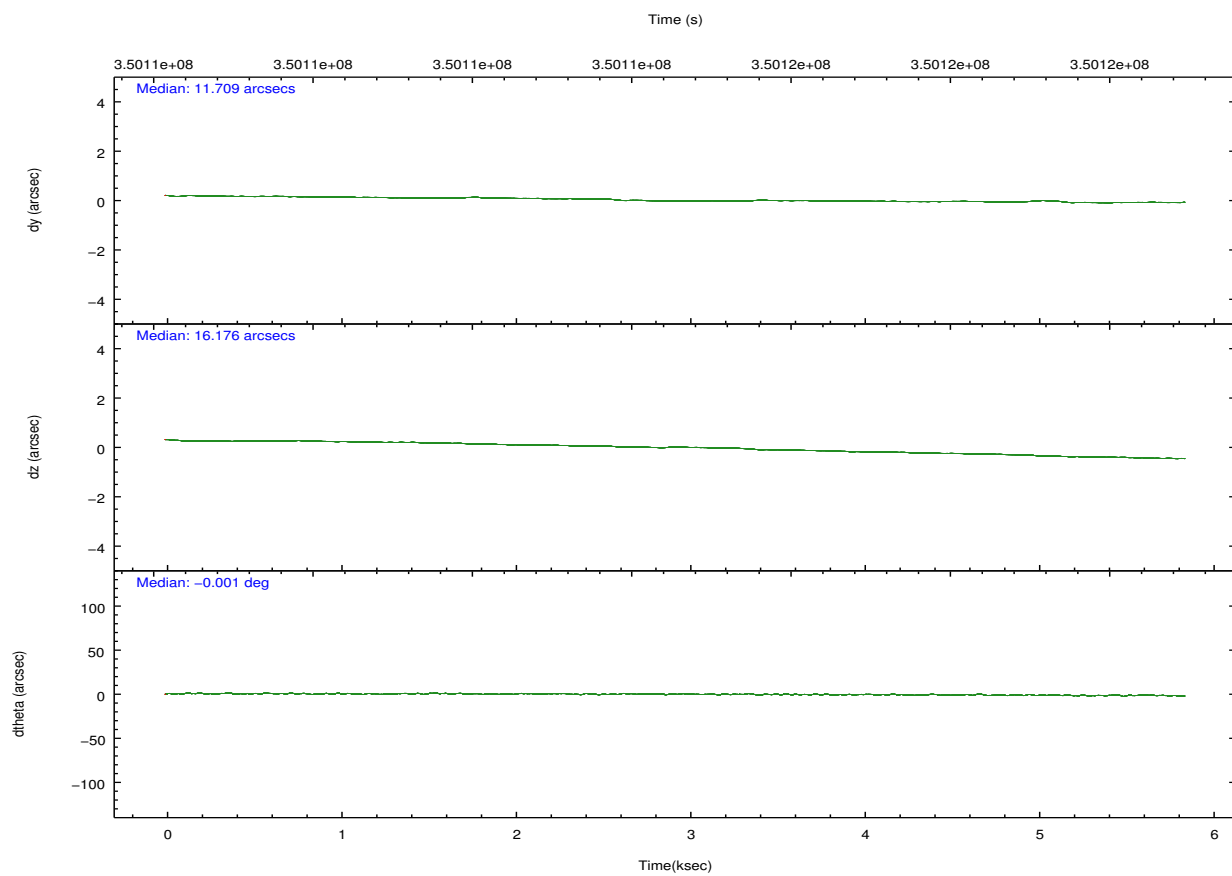
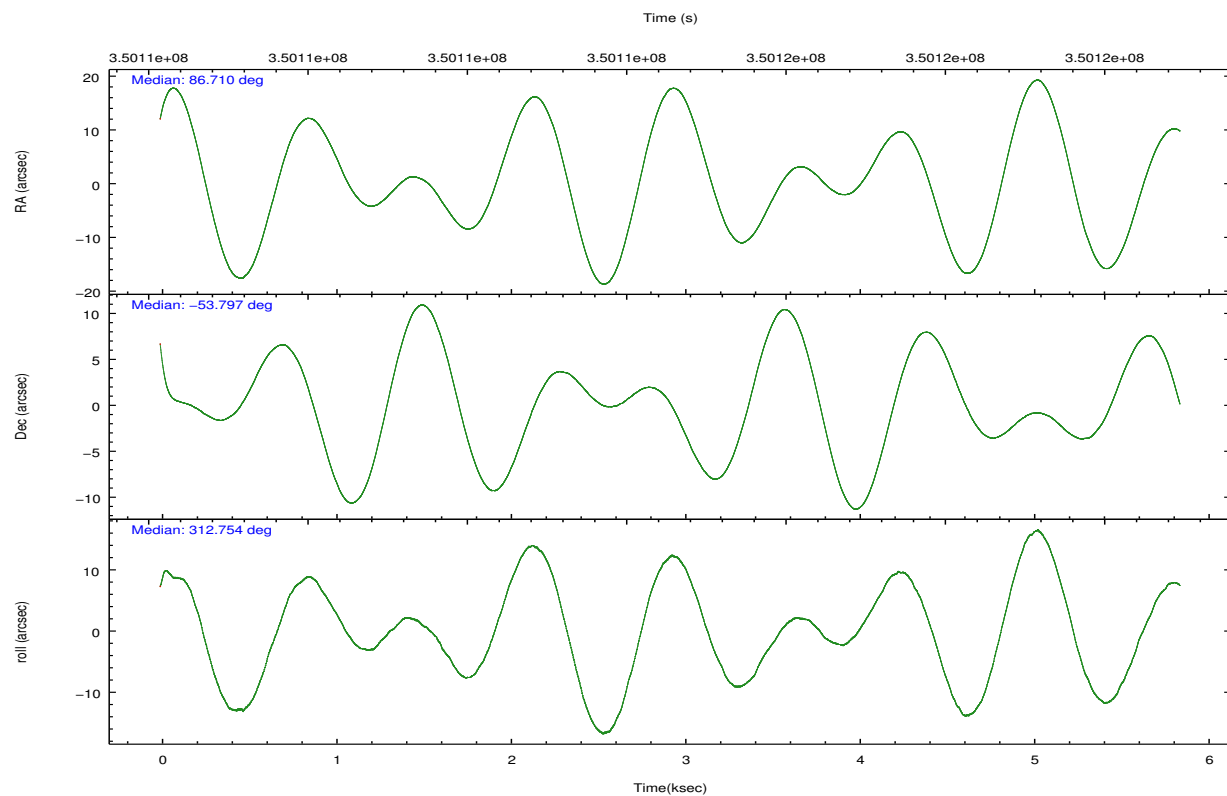
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1881	2171	1909	2027	1940
	3%	4%	3%	3%	3%
grade 1 events	25	26	37	44	23
	0%	0%	0%	0%	0%
grade 2 events	1367	1421	1291	1118	1195
	2%	2%	2%	2%	2%
grade 3 events	603	612	617	637	613
	1%	1%	1%	1%	1%
grade 4 events	549	641	586	584	594
	1%	1%	1%	1%	1%
grade 5 events	1923	2292	1898	2234	2265
	3%	4%	3%	4%	4%
grade 6 events	1056	1253	1076	1049	1166
	2%	2%	1%	1%	2%
grade 7 events	42260	41024	49679	46897	44474
	85%	82%	87%	85%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	86.665523	86.71007351967279	CCD I2 on	Y	Y
[deg] Pointing Dec	-53.789193	-53.79715544854099	CCD I3 on	Y	Y
[deg] Pointing Roll	312.512518	312.7571596571215	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-225.840463	-225.8458576473255	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.746595355604228	CCD S4 on	N	N
[s] Observation start time (MET)	350111494.184000	350110229.99395	CCD S5 on	N	N
Observation start date	2009-02-04T05:10:28	2009-02-04T04:50:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	350117194.184000	350118227.55685	On-chip summing requested	N	N
Observation end date	2009-02-04T06:45:28	2009-02-04T07:03:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



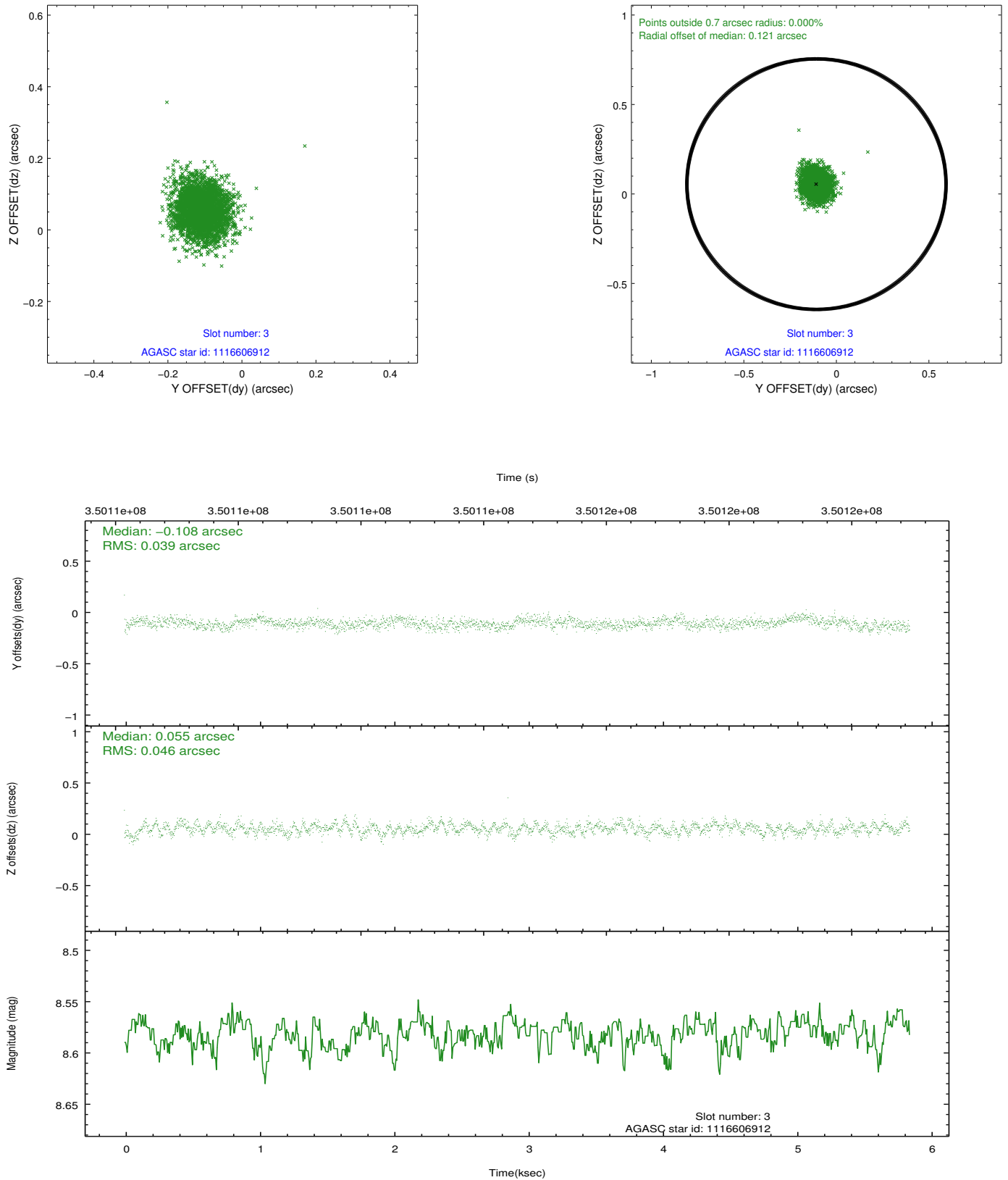


Slot Statistics

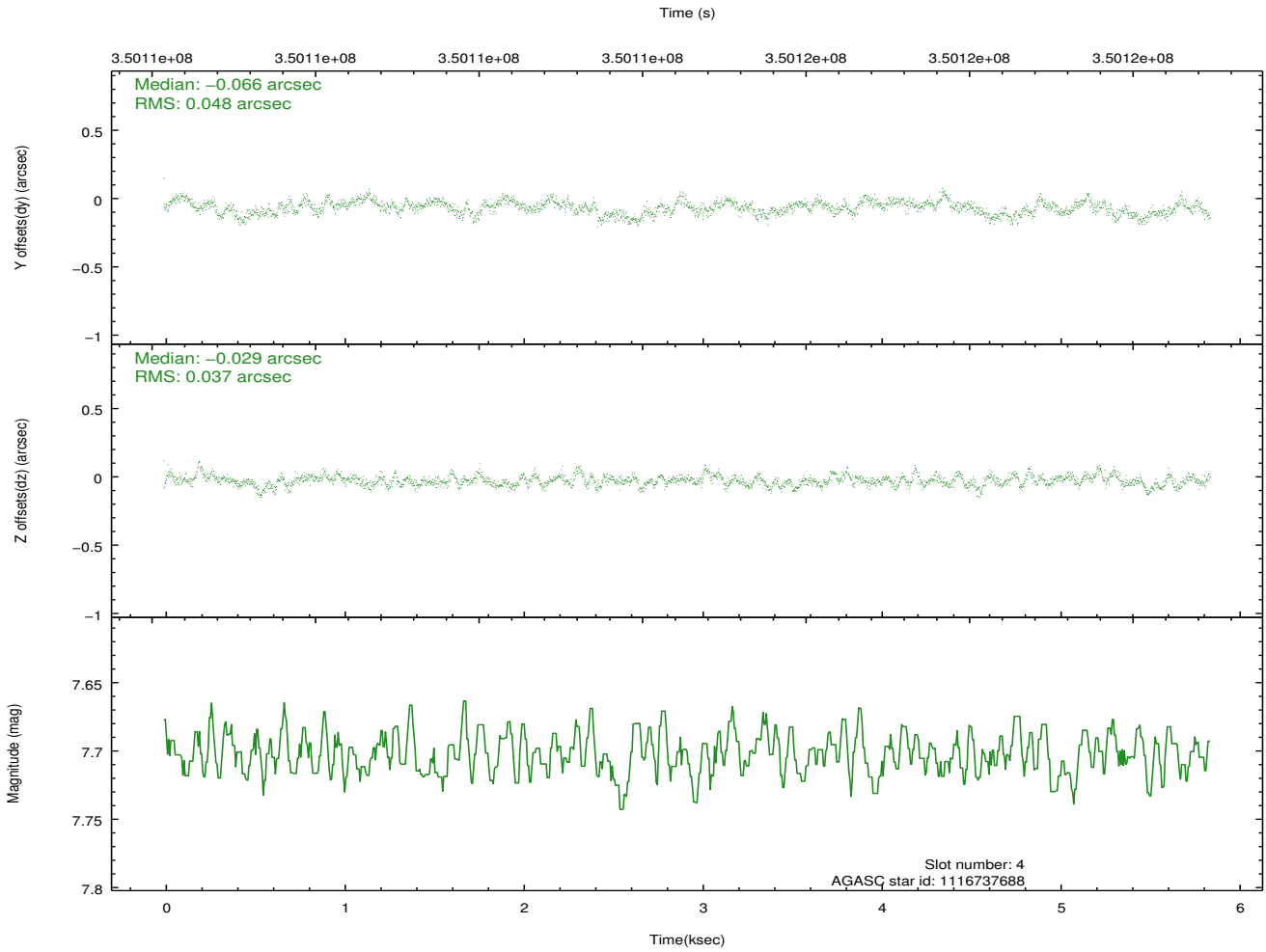
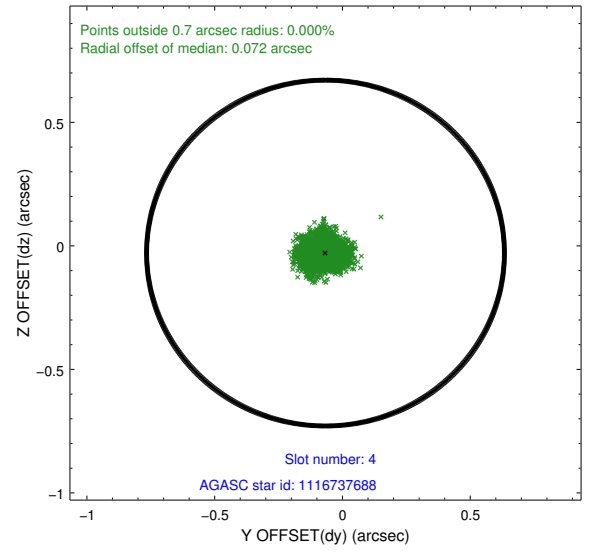
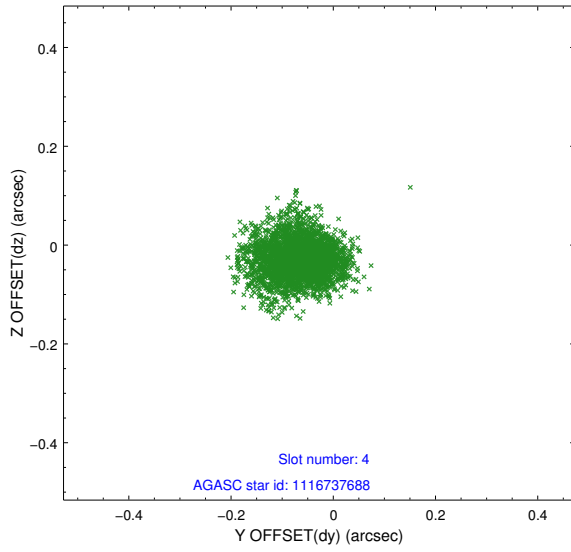
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	1427	0.132	-0.102	0.008	0.014	0.000000	0.000000	927.78	-998.91
1	FID	ACIS-I-5	6.98	1427	-0.232	0.123	0.008	0.013	0.000000	0.000000	-1820.11	898.20
2	FID	ACIS-I-6	7.01	1427	0.008	0.049	0.009	0.014	0.000000	0.000000	392.11	1543.77
3	GUIDE	1116606912	8.58	2852	-0.108	0.055	0.064	0.103	86.539686	-54.008936	403.82	-731.02
4	GUIDE	1116737688	7.70	2852	-0.066	-0.029	0.065	0.104	87.142567	-53.676424	392.30	1021.14
5	GUIDE	1116744312	8.87	2849	0.027	0.140	0.074	0.121	86.852265	-53.996599	818.35	-213.17
6	GUIDE	1116605616	9.31	2850	0.129	-0.077	0.095	0.171	86.278487	-53.177173	-2185.92	871.37
7	GUIDE	1116738280	8.15	2850	0.024	-0.086	0.095	0.154	87.869951	-53.655711	1398.00	2203.94

2.4 Star Slots

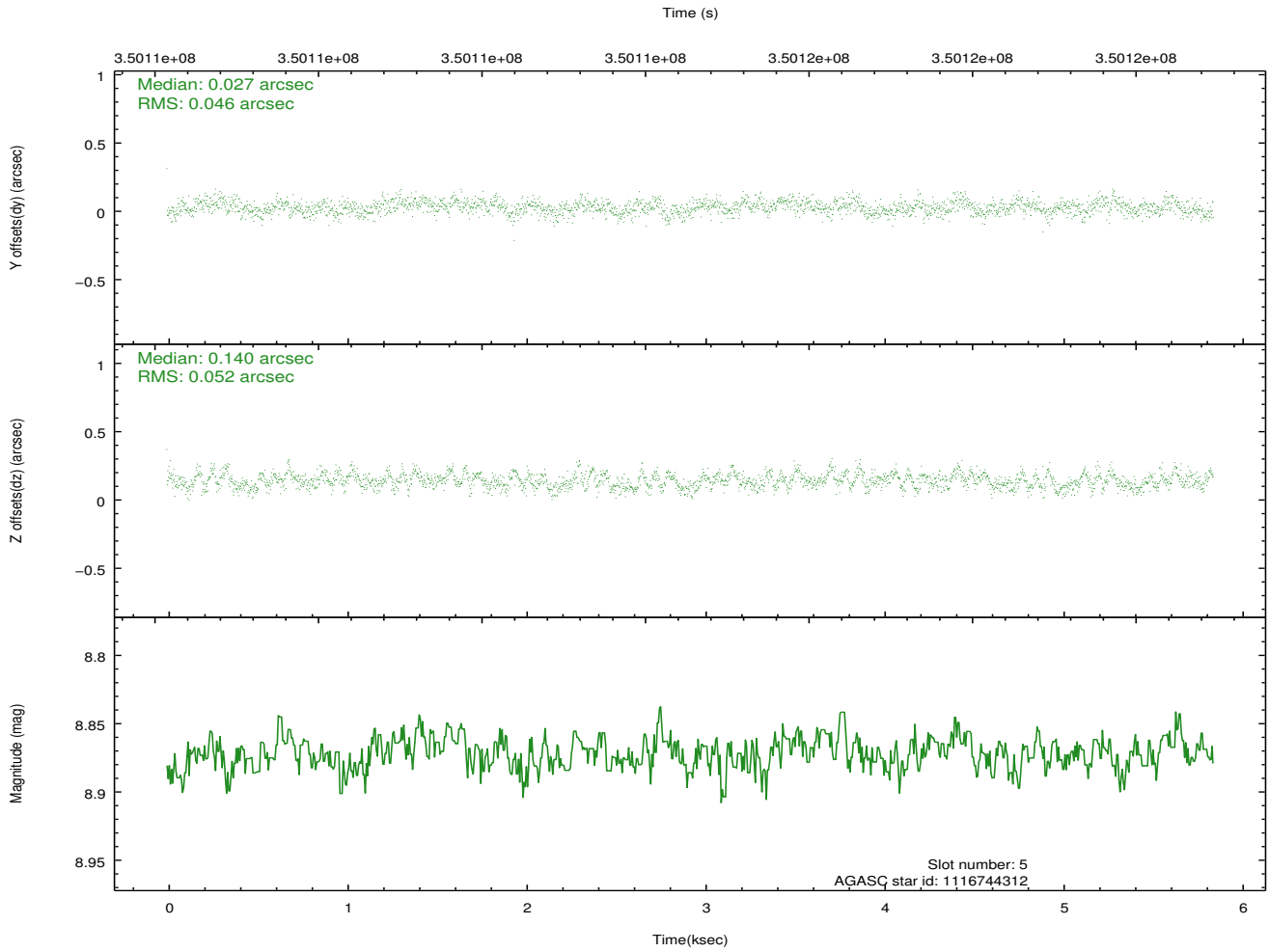
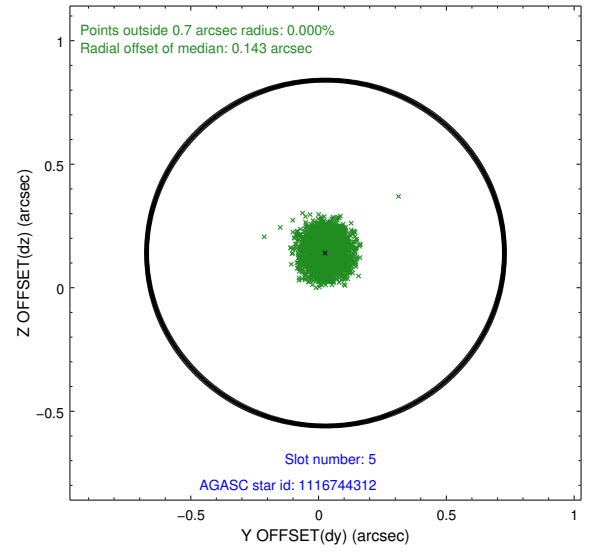
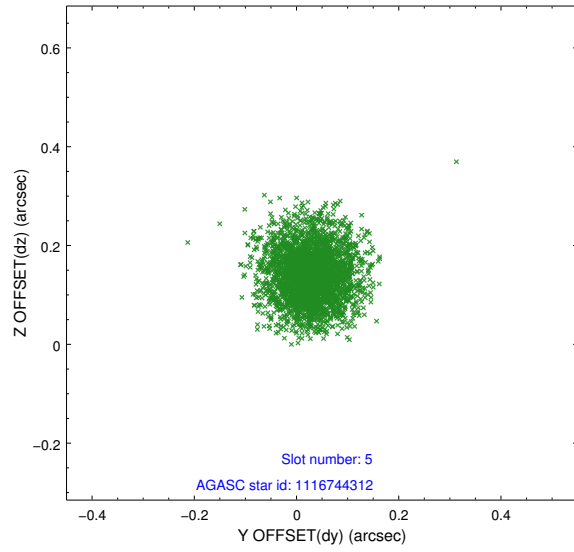
2.4.1 Slot 3



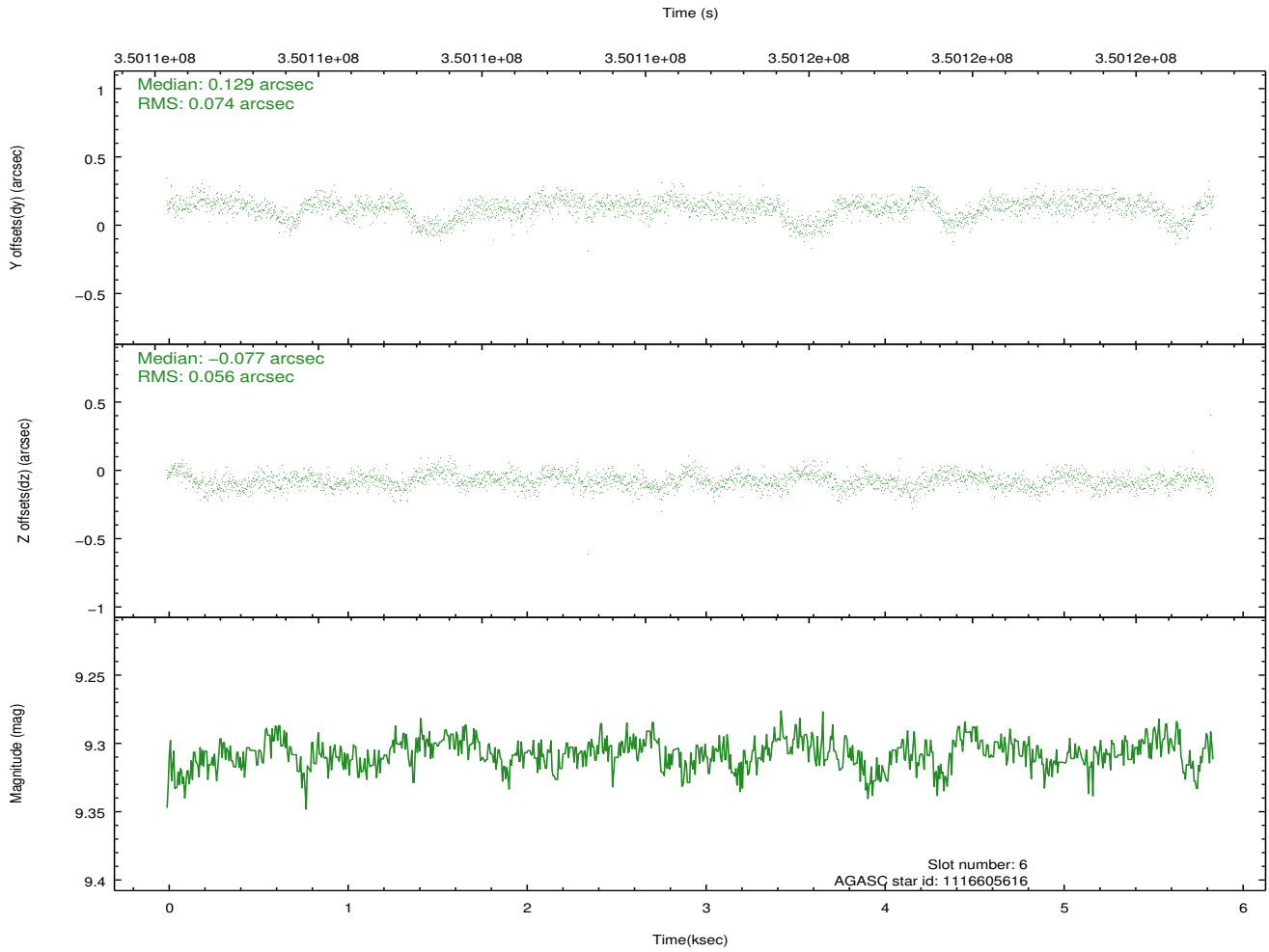
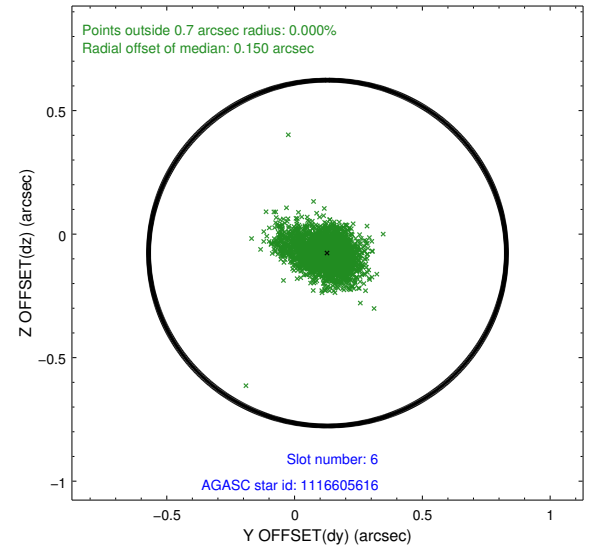
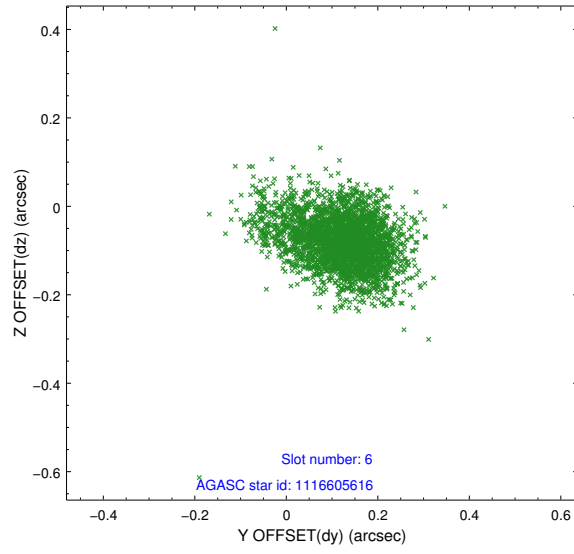
2.4.2 Slot 4



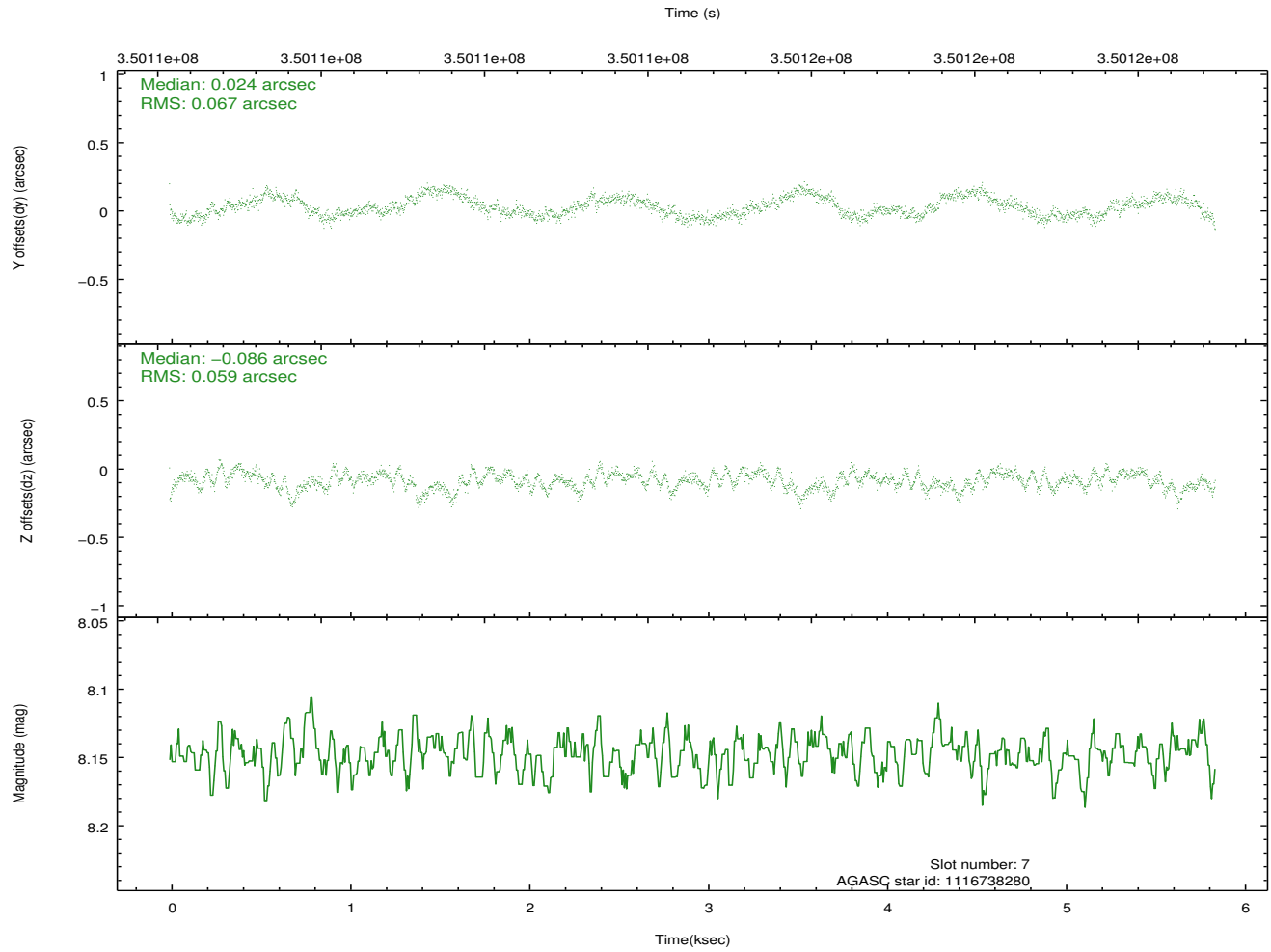
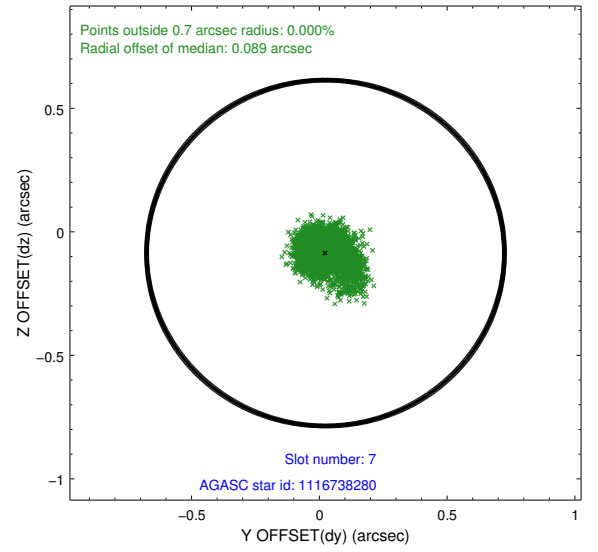
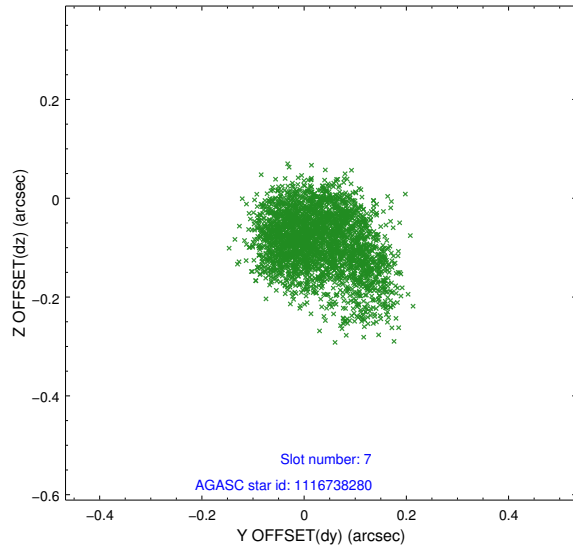
2.4.3 Slot 5



2.4.4 Slot 6

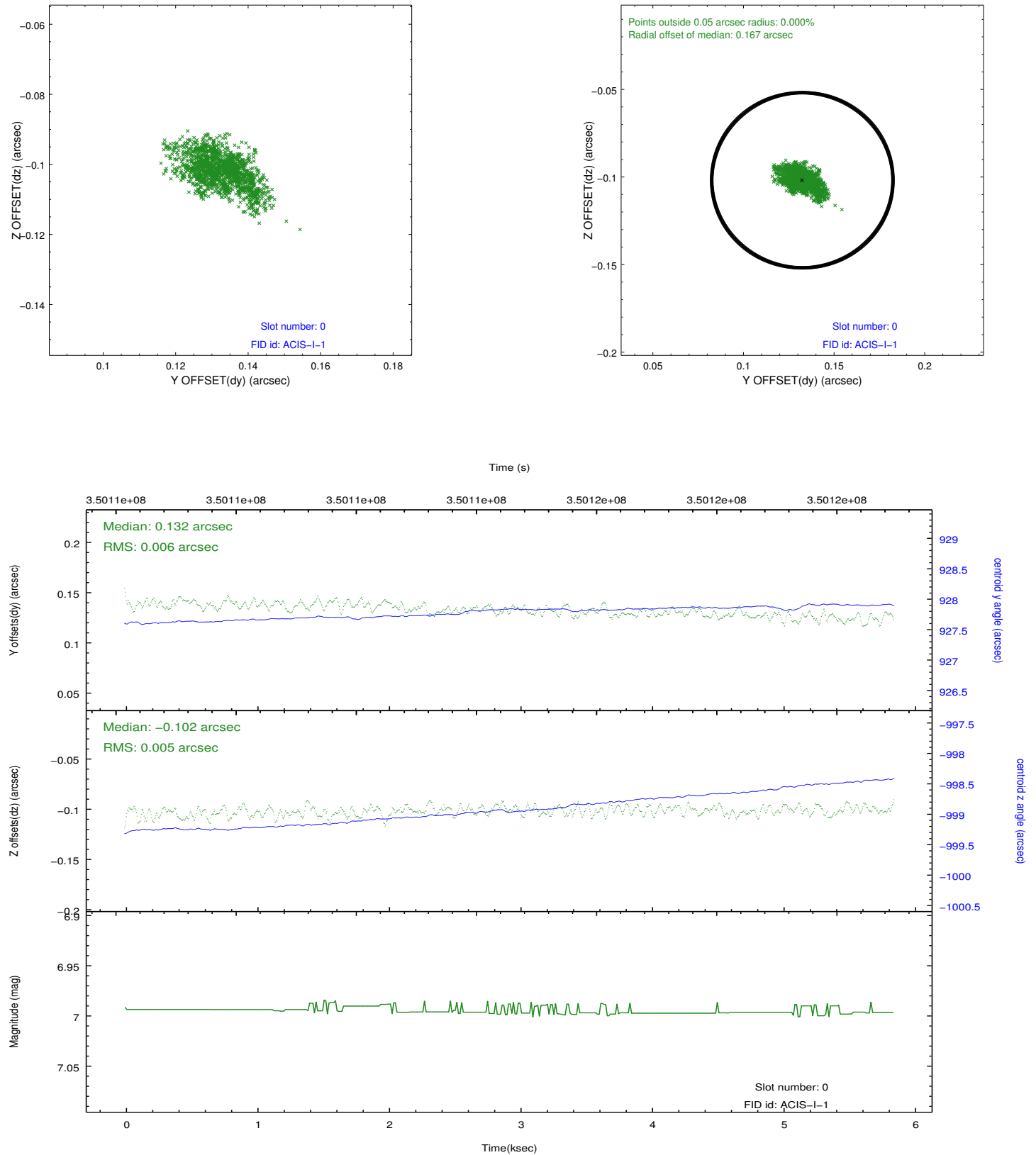


2.4.5 Slot 7

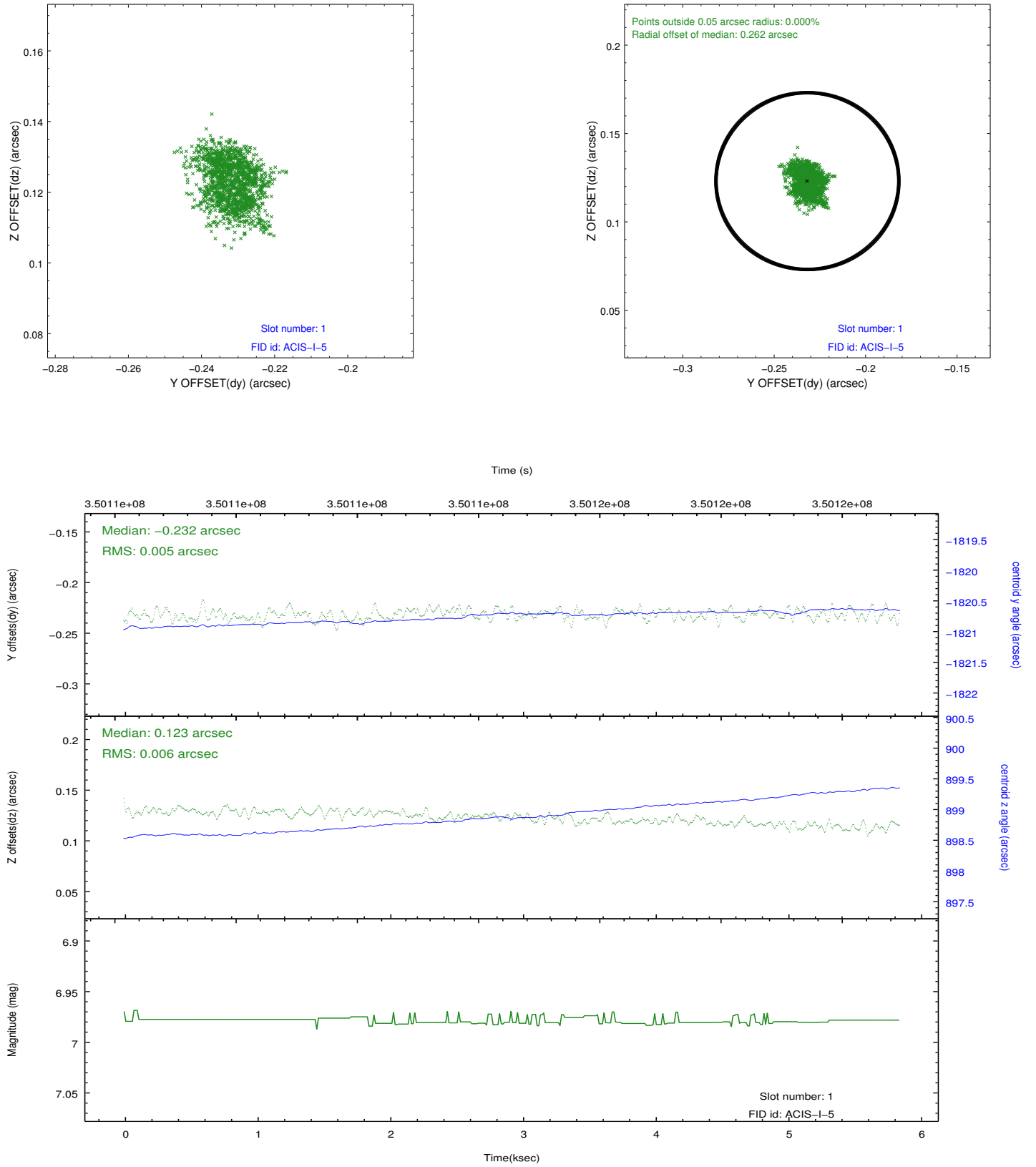


2.5 FID Slots

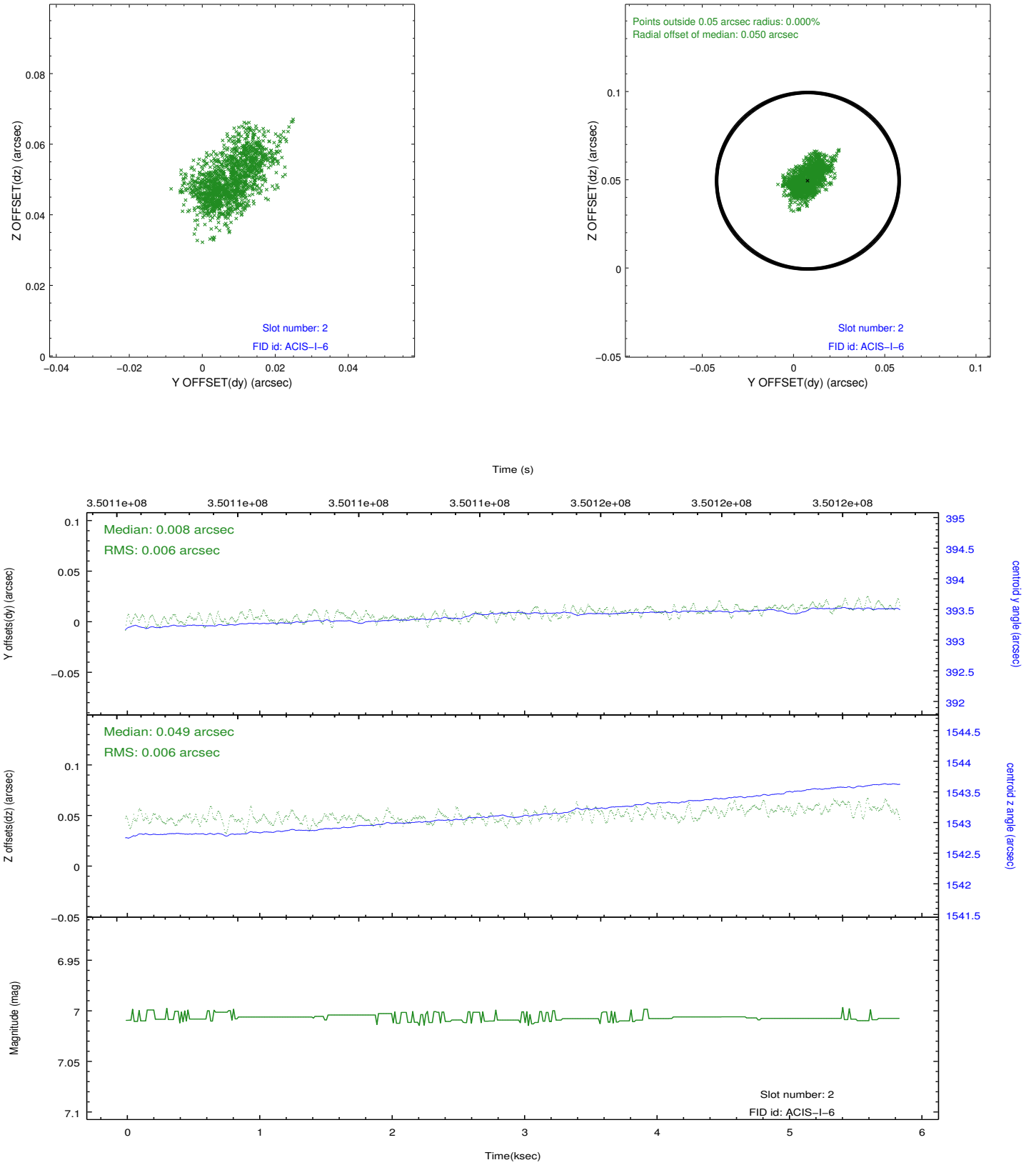
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.83725908

A.2 Comments