

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11776 - L2 Version 2
Chandra X-Ray Center

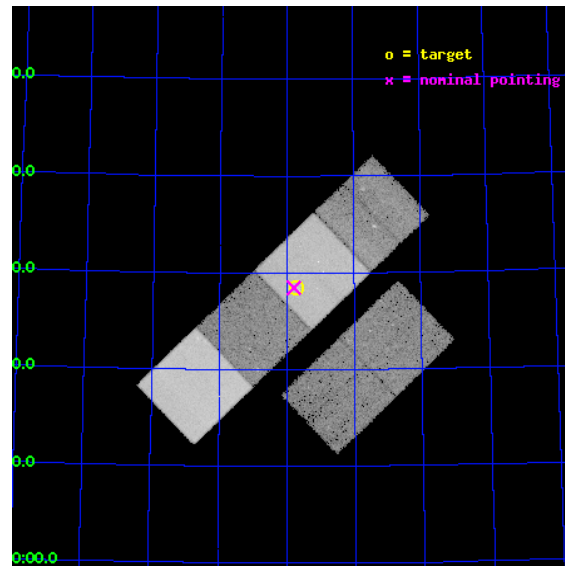
L2 Processing Date : Jun 29 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

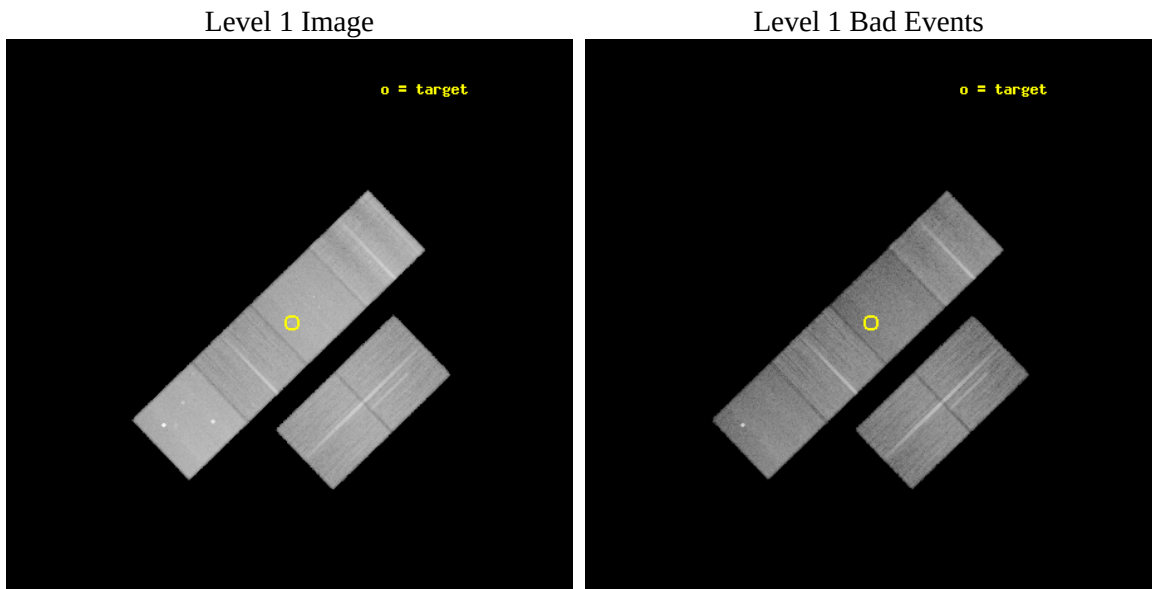
seq_num	900911	Sequence number
obs_id	11776	Observation id
title	COMBH: Chandra Observations of M-sigma Black Holes	Proposal title
observer	Dr. Kayhan Gultekin	Principal investigator
object	NGC 2748	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	138.429167	Observer's specified target RA [deg]
dec_targ	76.475333	Observer's specified target Dec [deg]
ra_nom	138.44937105553	Nominal RA [deg]
dec_nom	76.474302577497	Nominal Dec [deg]
roll_nom	316.04221211672	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30047.999888122	Sum of GTIs [s]
livetime	29667.514020805	Livetime [s]
ontime2	30044.758927763	Sum of GTIs [s]
ontime3	30047.881447554	Sum of GTIs [s]
ontime5	30047.96352756	Sum of GTIs [s]
ontime6	30047.922487557	Sum of GTIs [s]
ontime7	30047.999888122	Sum of GTIs [s]
ontime8	30047.84040755	Sum of GTIs [s]
l2events	362764	Number of level 2 events



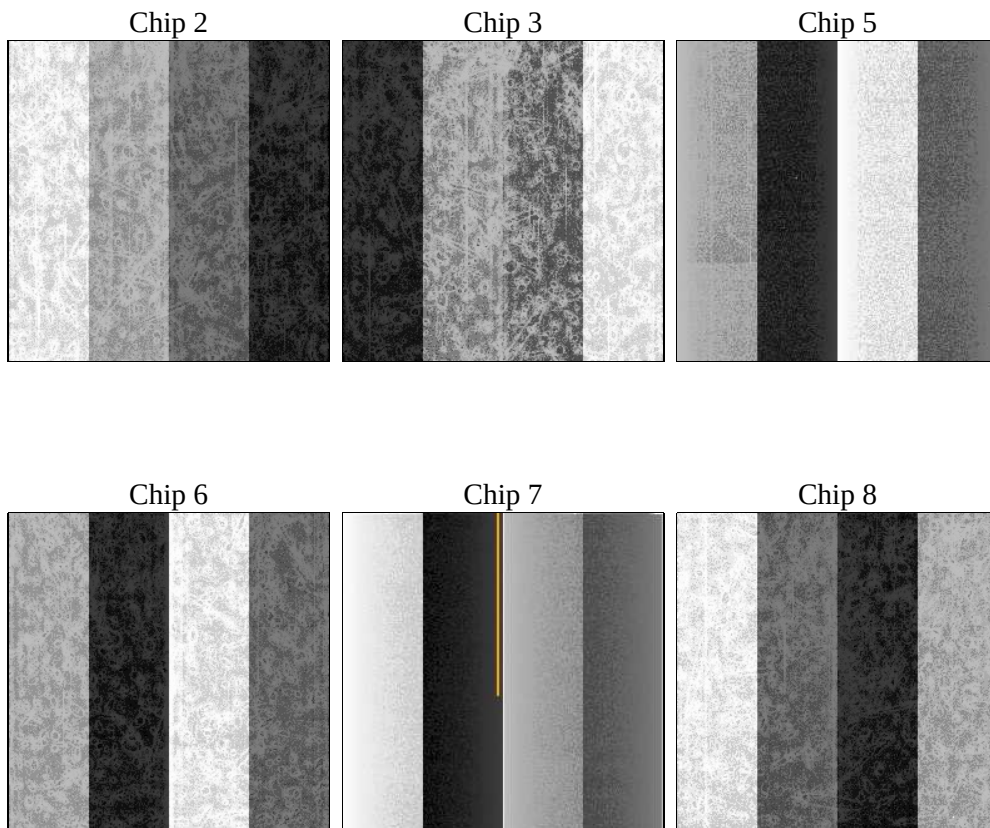
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	30047.999888122	Sum of GTIs [s]
caldsver	4.5.0	 	ontime2	30044.758927763	Sum of GTIs [s]
date	2012-06-29T11:09:11	Date and time of file creation	ontime3	30047.881447554	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	30047.96352756	Sum of GTIs [s]
			ontime6	30047.922487557	Sum of GTIs [s]
			ontime7	30047.999888122	Sum of GTIs [s]
			ontime8	30047.84040755	Sum of GTIs [s]
			l1events	1570789	Number of level 1 events

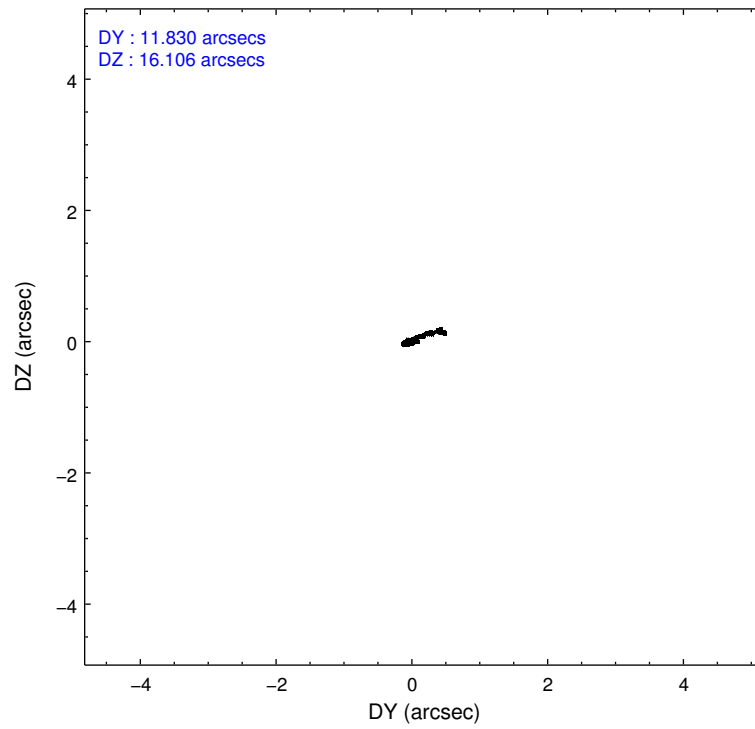
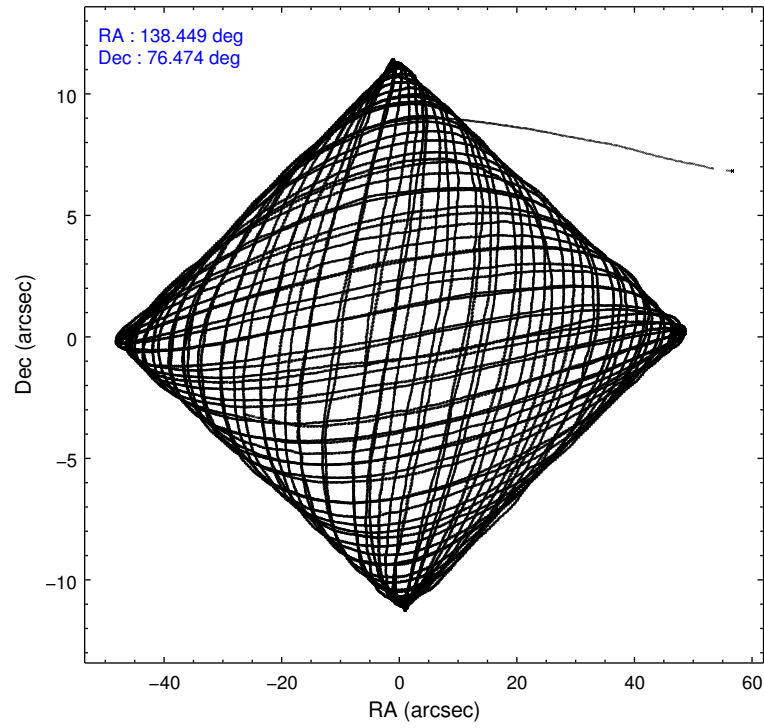
2.1.4 Events

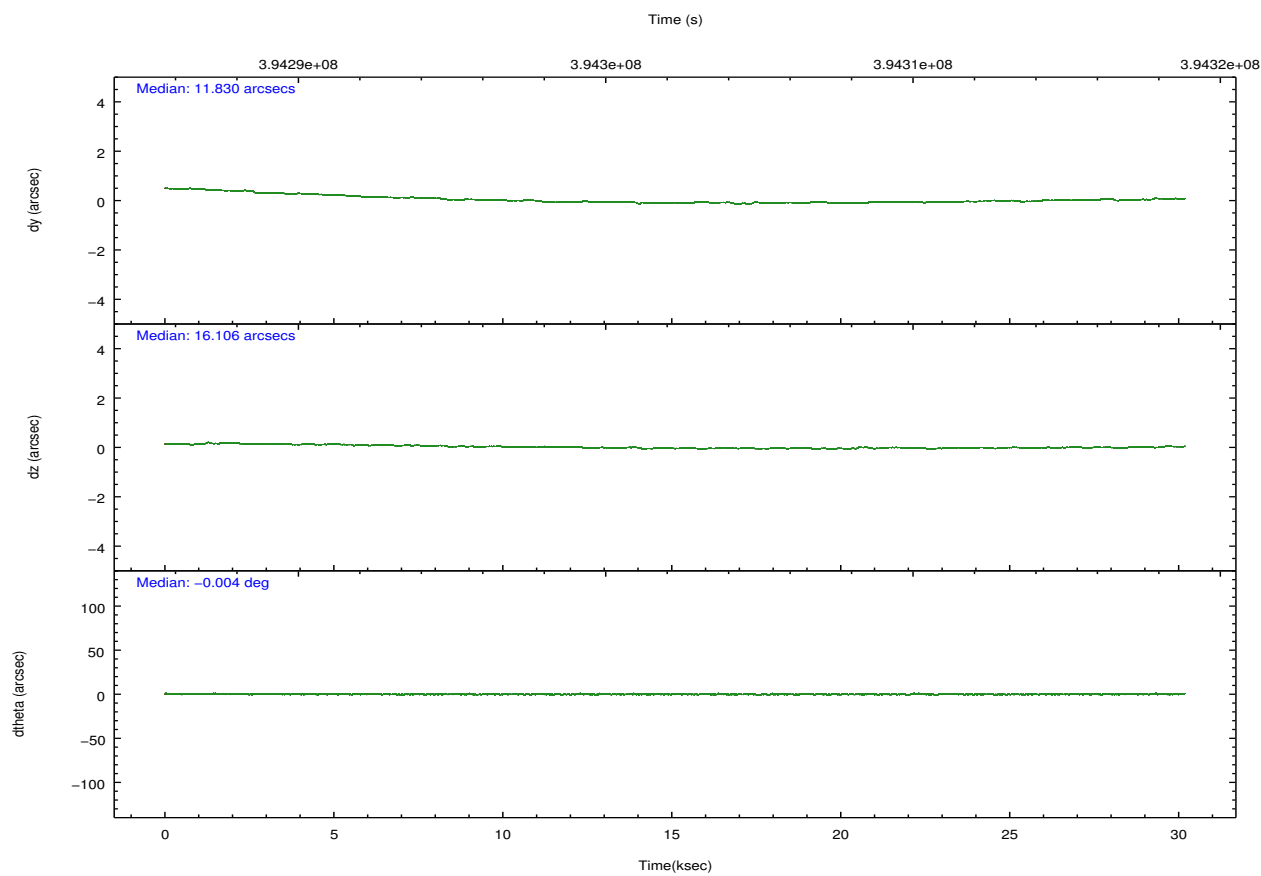
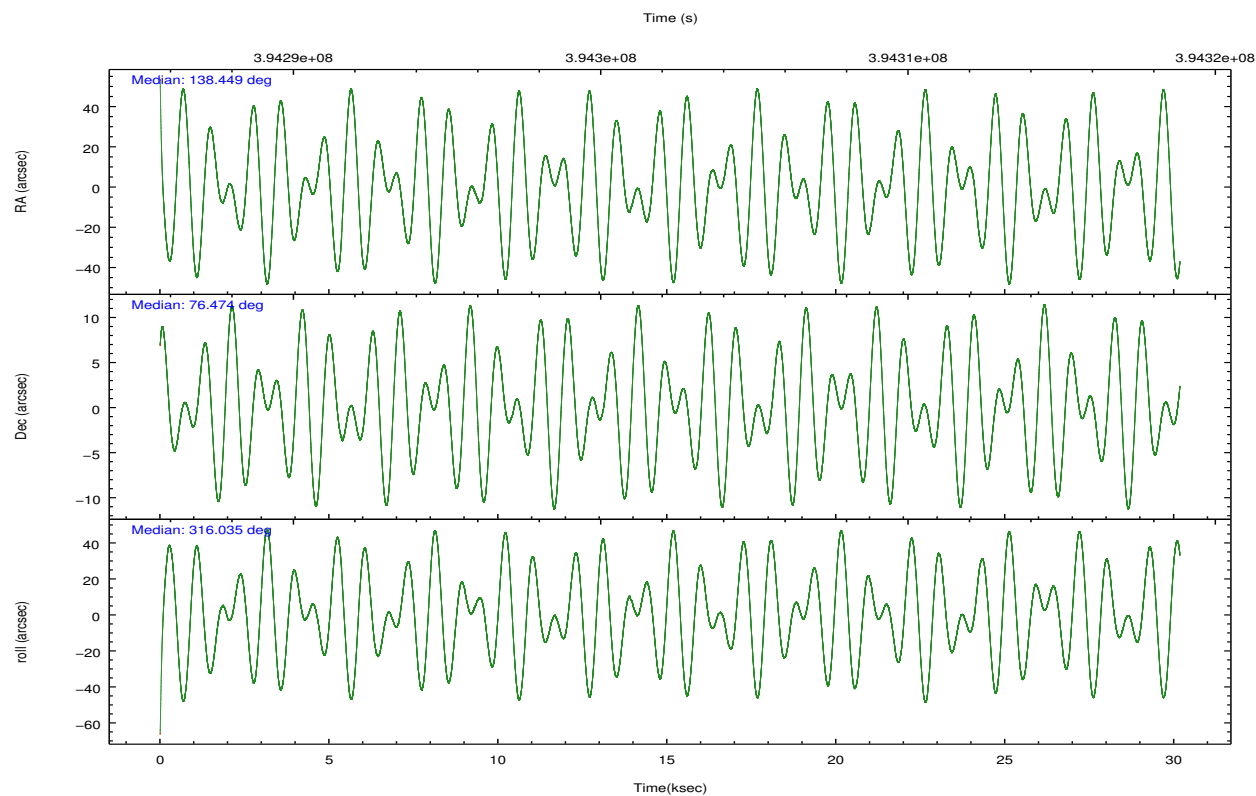
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	233238	213326	339054	224708	271317	289146	grade 0 events	8411	7963	17133	8596	11683	23384
rejected events	209549	190858	170793	200085	147836	212008		3%	3%	5%	3%	4%	8%
rejected %	89%	89%	50%	89%	54%	73%	grade 1 events	138	134	2873	121	360	249
								0%	0%	0%	0%	0%	0%
							grade 2 events	5810	5007	51512	5525	25355	18040
								2%	2%	15%	2%	9%	6%
							grade 3 events	2431	2459	6438	2521	11093	7843
								1%	1%	1%	1%	4%	2%
							grade 4 events	2449	2426	6100	2556	10988	7361
								1%	1%	1%	1%	4%	2%
							grade 5 events	8491	9999	25801	9966	28351	14812
								3%	4%	7%	4%	10%	5%
							grade 6 events	4590	4617	87110	5430	64383	20519
								1%	2%	25%	2%	23%	7%
							grade 7 events	200918	180721	142087	189993	119104	196938
								86%	84%	41%	84%	43%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	138.335567	138.449371055528	CCD I2 on	O1	Y
[deg] Pointing Dec	76.480507	76.47430257749663	CCD I3 on	O2	Y
[deg] Pointing Roll	315.996237	316.0422121167153	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	394287355.184000	394286302.85388	CCD S5 on	N	N
Observation start date	2010-06-30T12:14:49	2010-06-30T11:58:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	394317355.184000	394317950.75549	On-chip summing requested	N	N
Observation end date	2010-06-30T20:34:49	2010-06-30T20:45:50	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



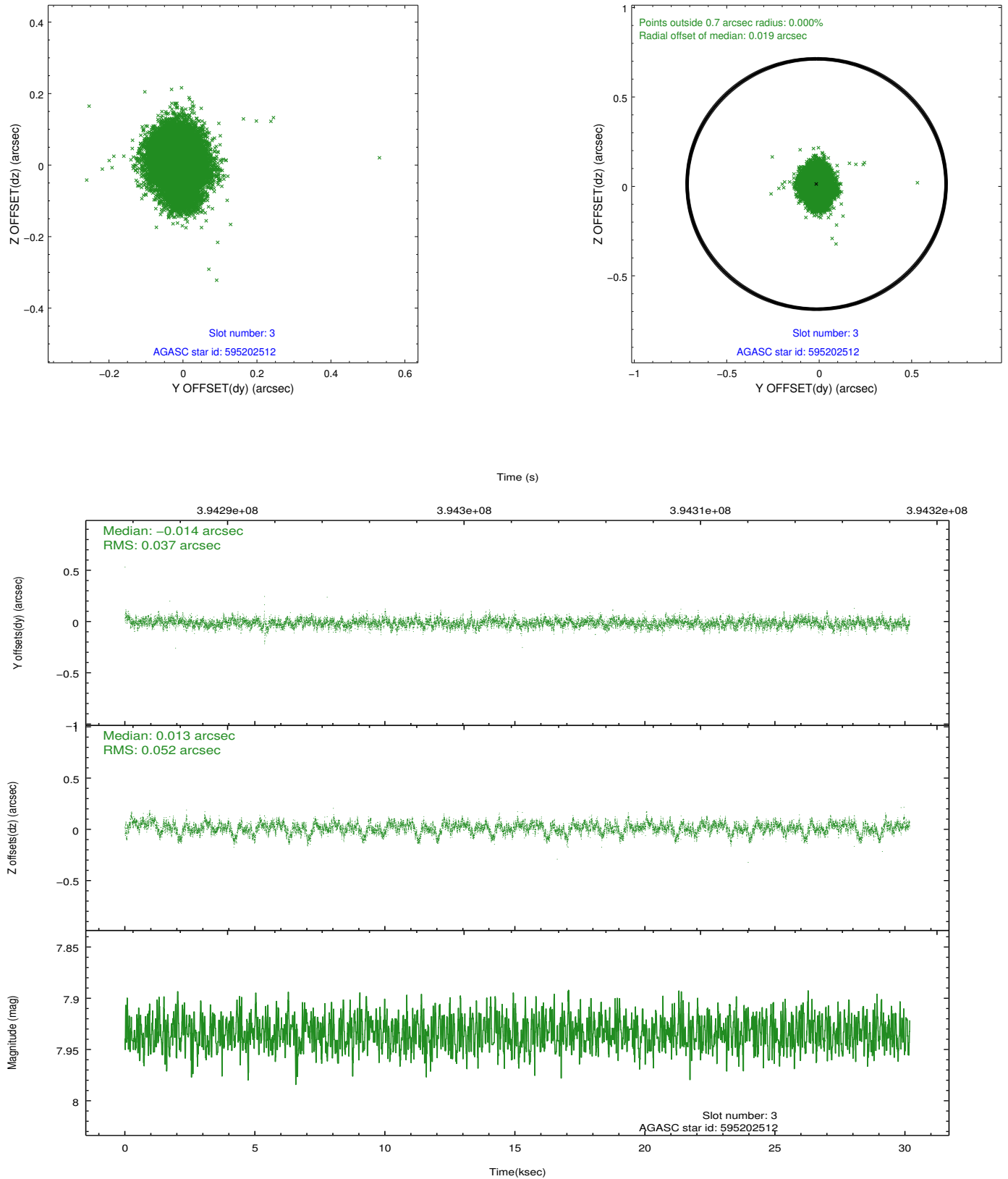


Slot Statistics

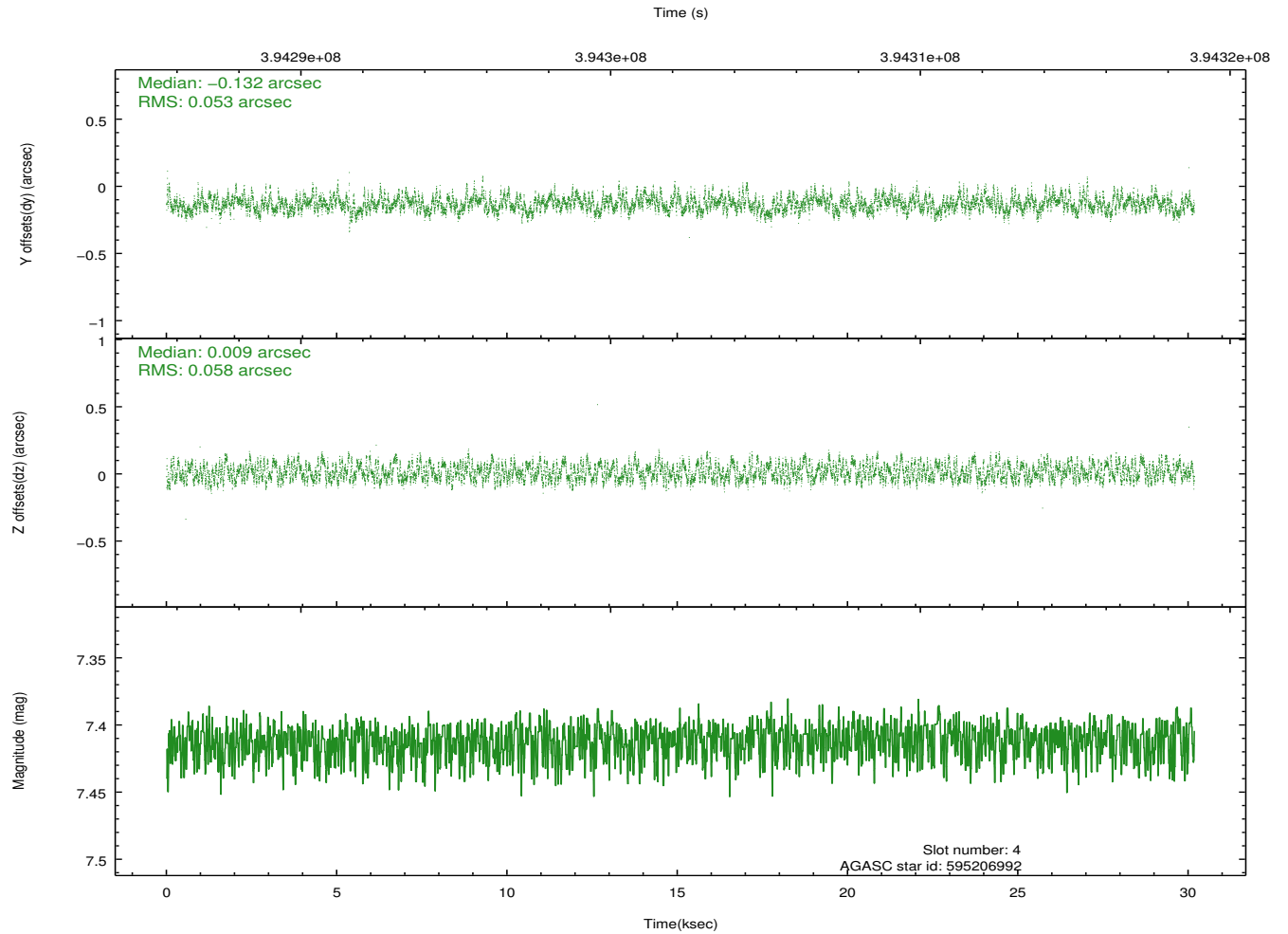
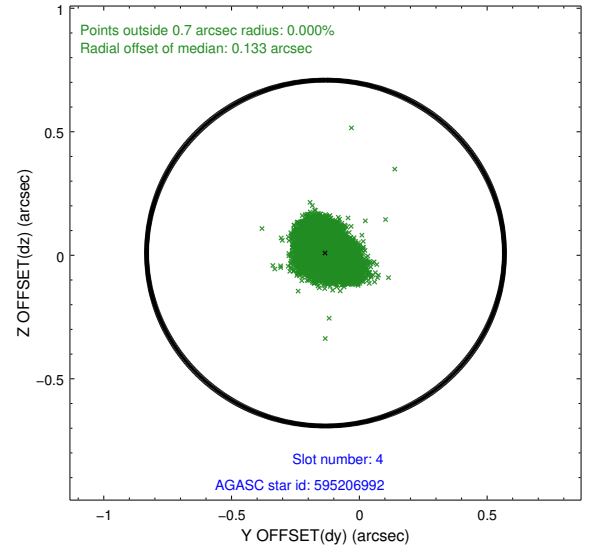
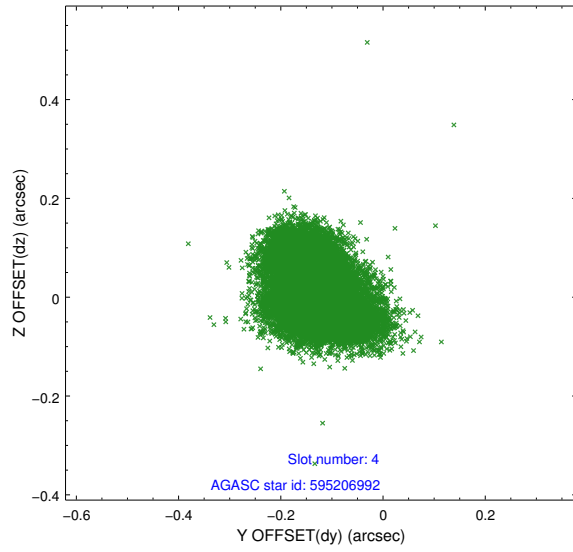
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	7361	-0.037	-0.009	0.007	0.013	0.000000	0.000000	-764.79	-1737.55
1	FID	ACIS-S-4	6.97	7361	0.120	0.020	0.006	0.012	0.000000	0.000000	2148.60	170.90
2	FID	ACIS-S-5	6.99	7360	-0.114	-0.003	0.008	0.014	0.000000	0.000000	-1817.63	164.61
3	GUIDE	595202512	7.93	14717	-0.014	0.013	0.066	0.113	135.874978	76.397681	-1319.71	-1631.86
4	GUIDE	595206992	7.41	14718	-0.132	0.009	0.085	0.131	139.255859	77.074195	-955.95	2056.38
5	GUIDE	595210000	9.17	14662	0.081	0.045	0.098	0.155	139.188863	76.164335	1315.84	-303.81
6	GUIDE	595217112	9.24	14633	-0.012	0.001	0.121	0.184	136.071789	76.466765	-1361.92	-1333.73
7	GUIDE	595214696	9.40	14696	0.074	-0.073	0.119	0.193	141.757555	76.597210	1703.49	2344.57

2.4 Star Slots

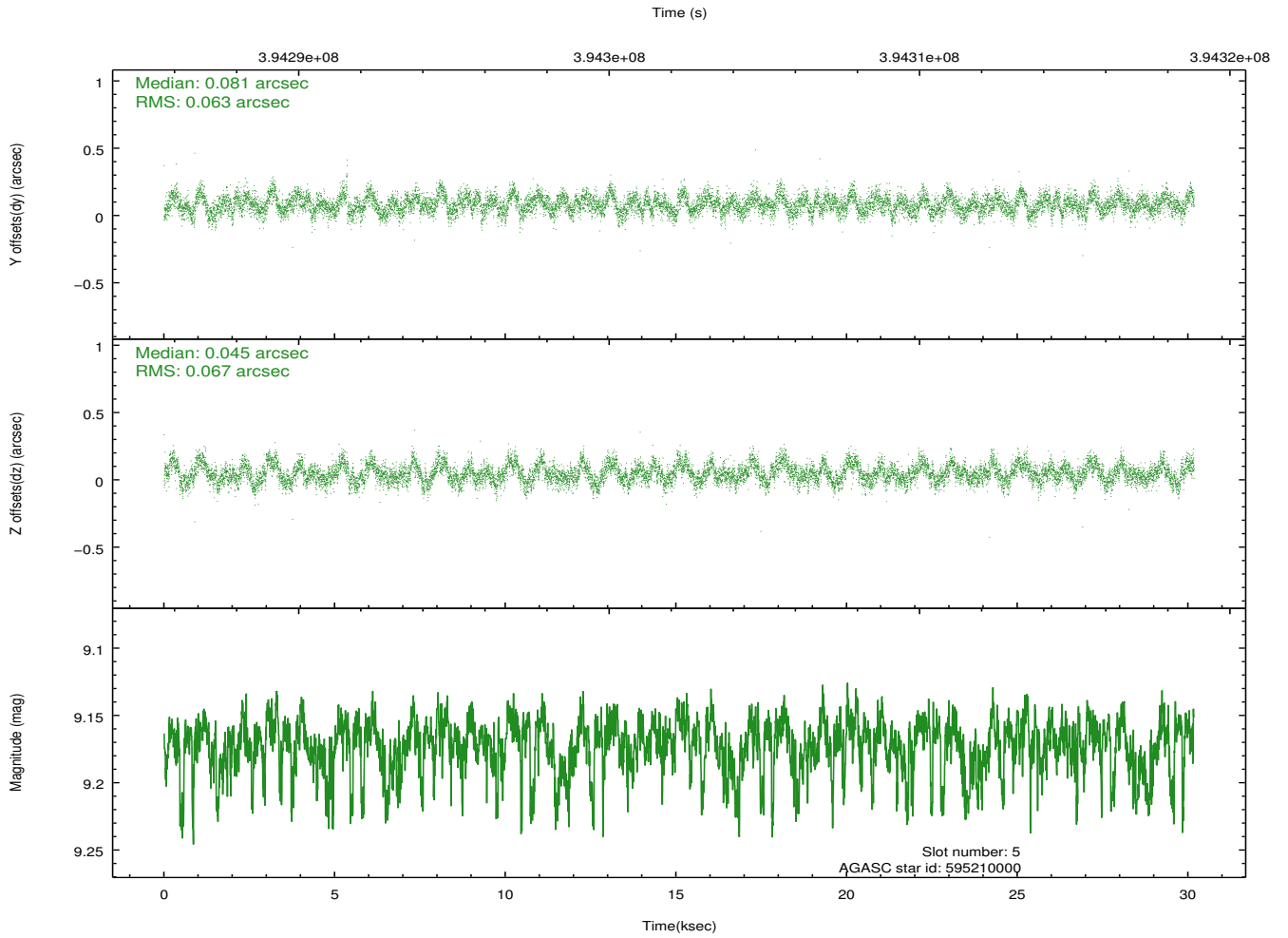
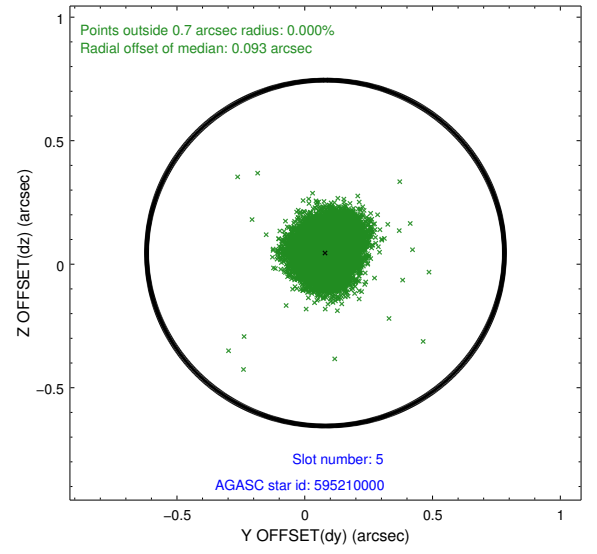
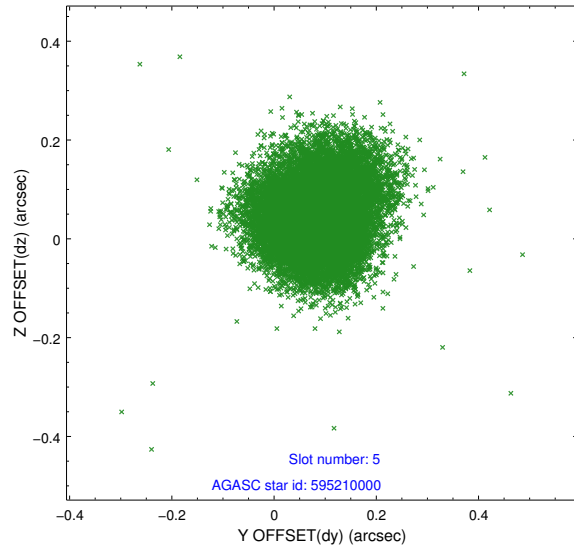
2.4.1 Slot 3



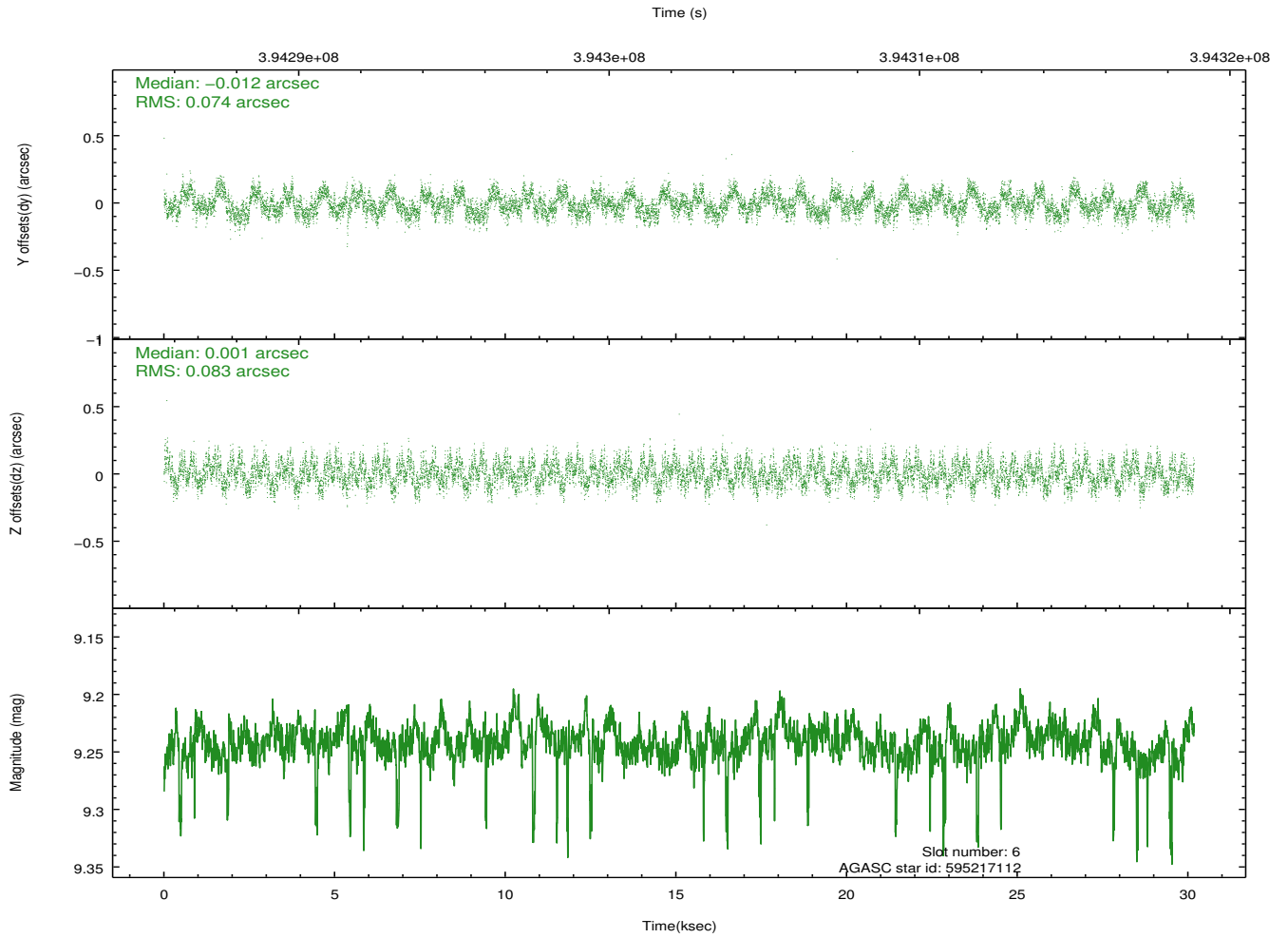
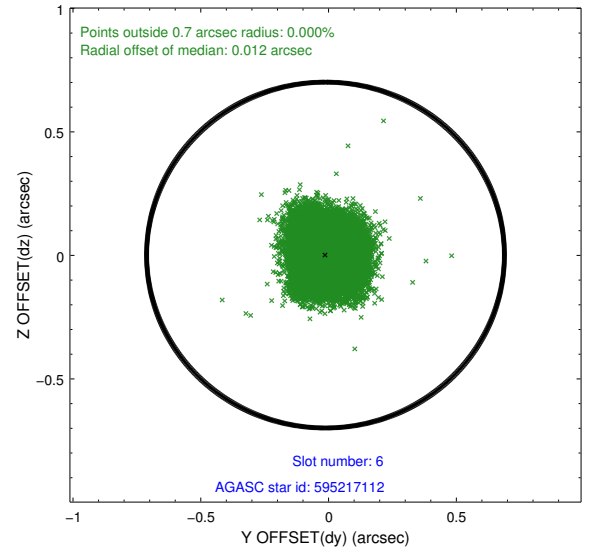
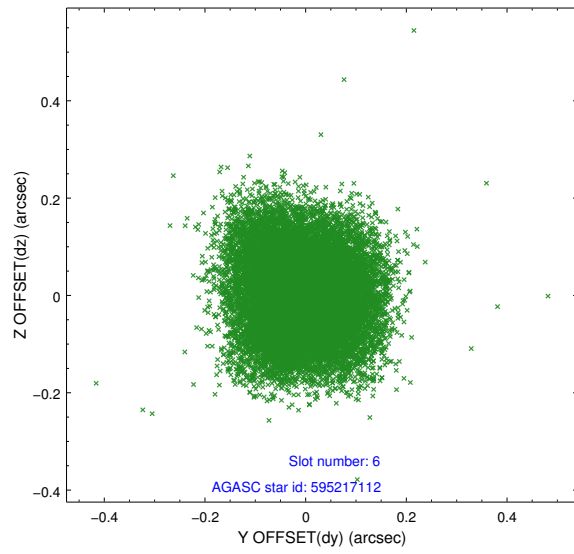
2.4.2 Slot 4



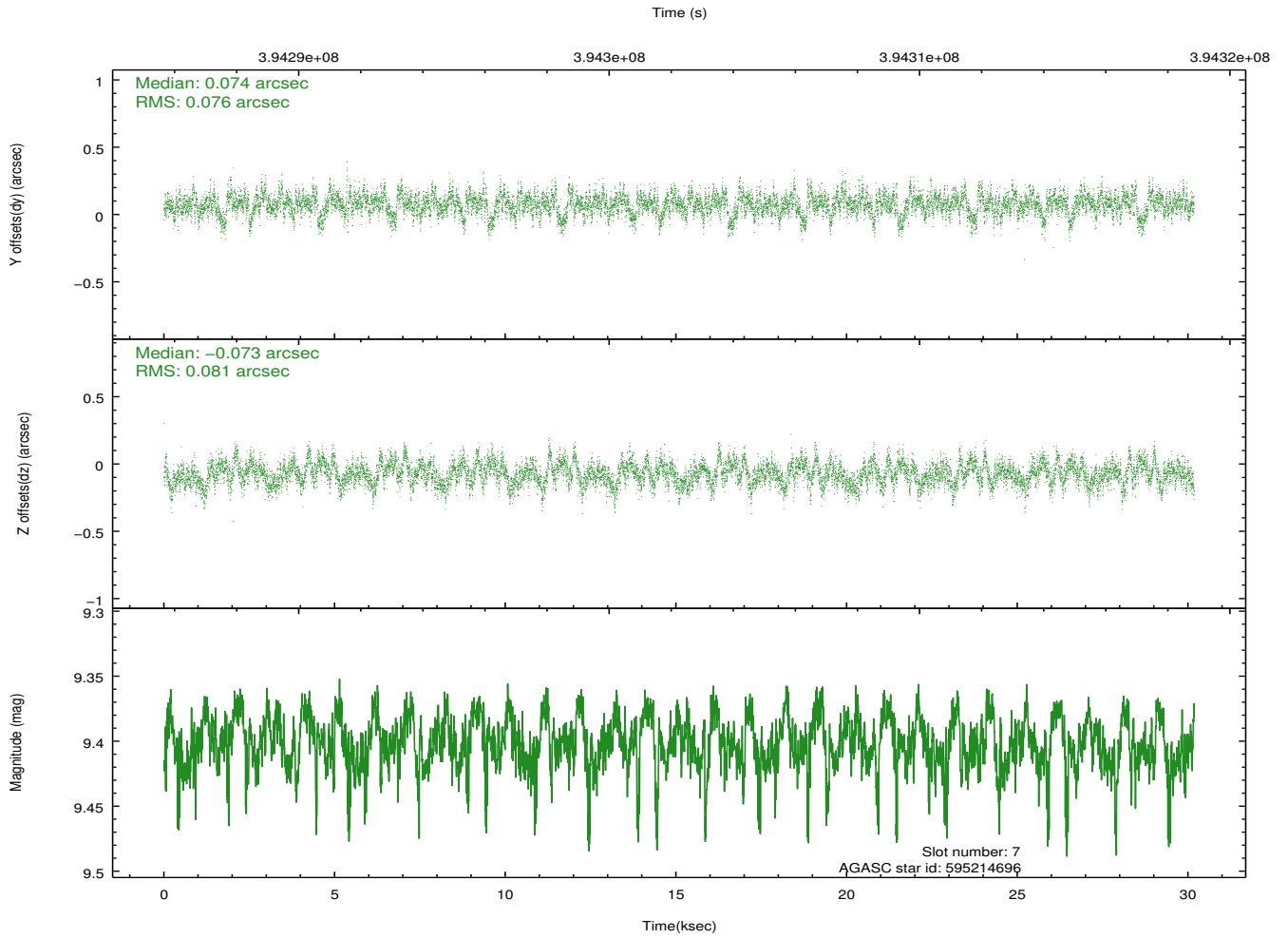
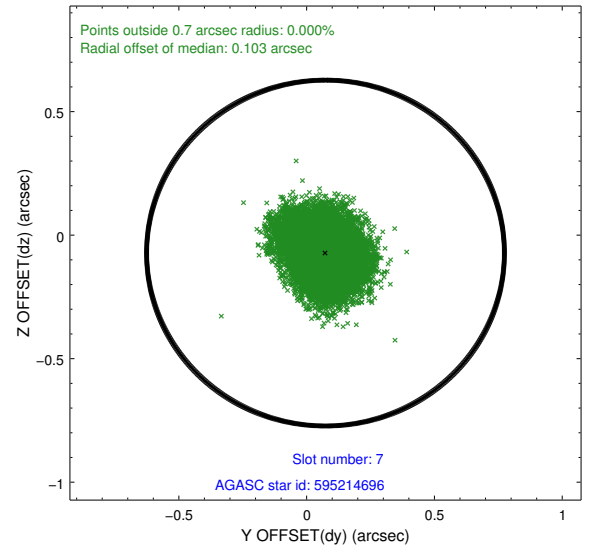
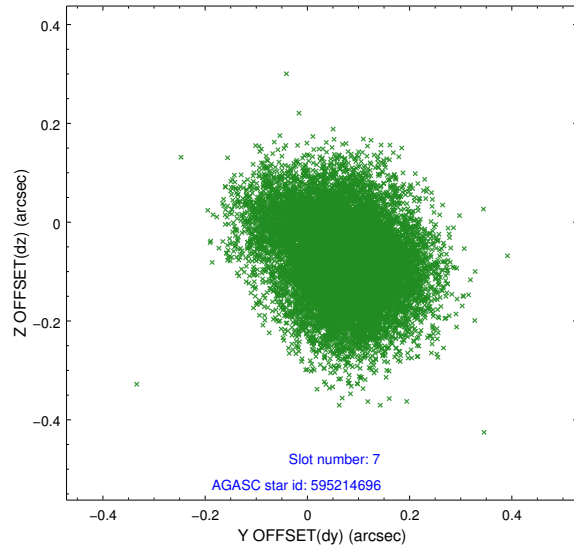
2.4.3 Slot 5



2.4.4 Slot 6

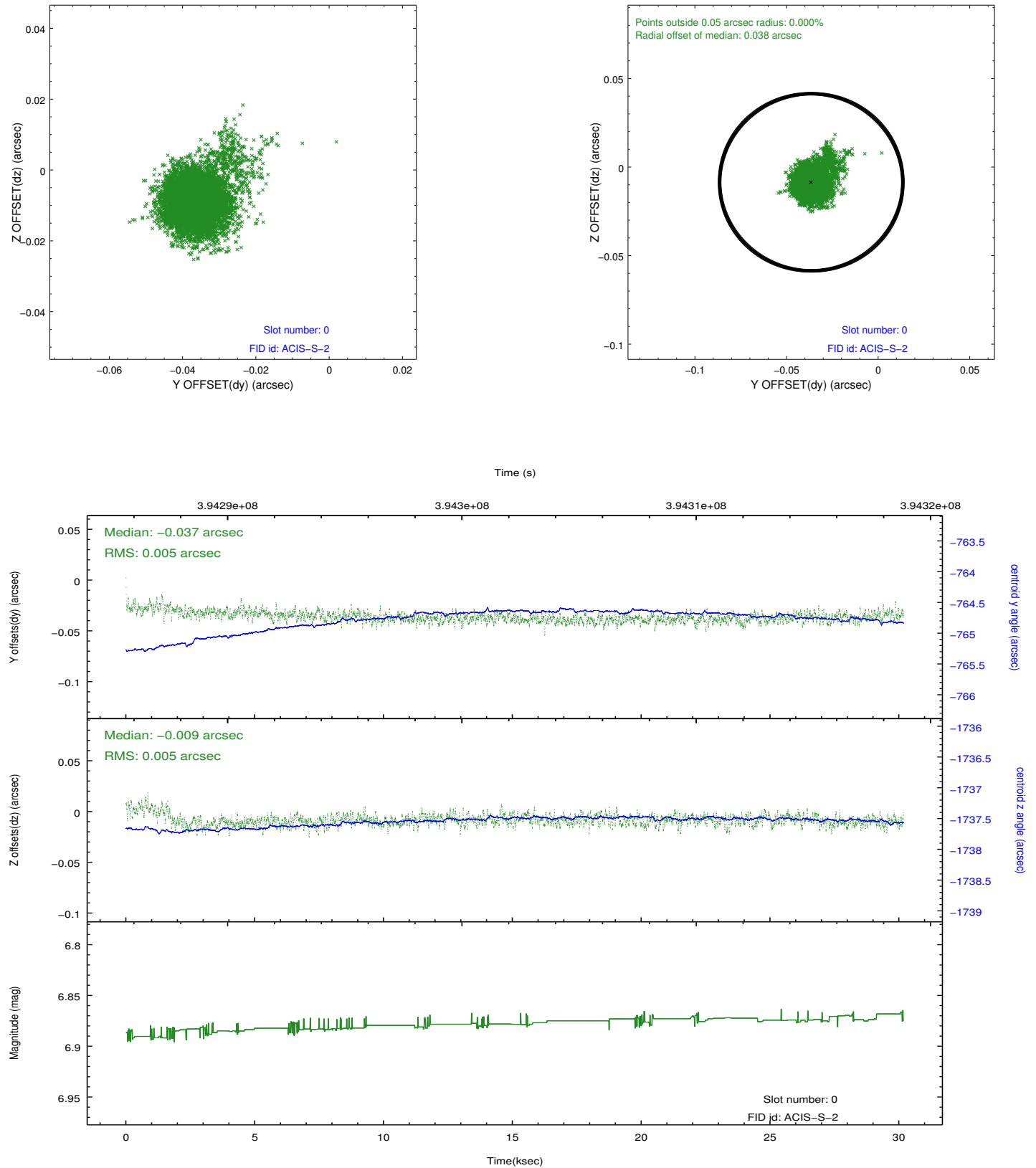


2.4.5 Slot 7

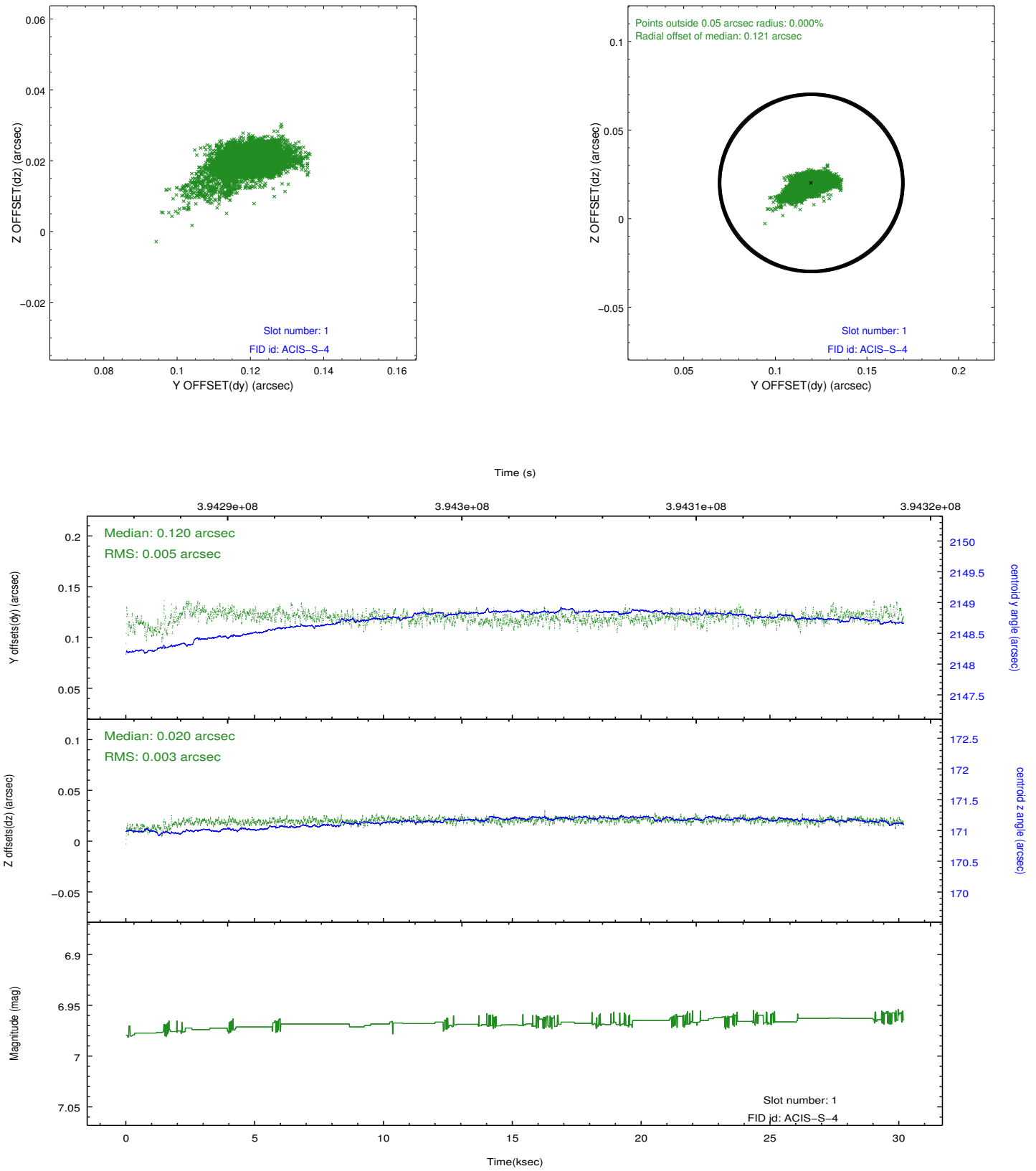


2.5 FID Slots

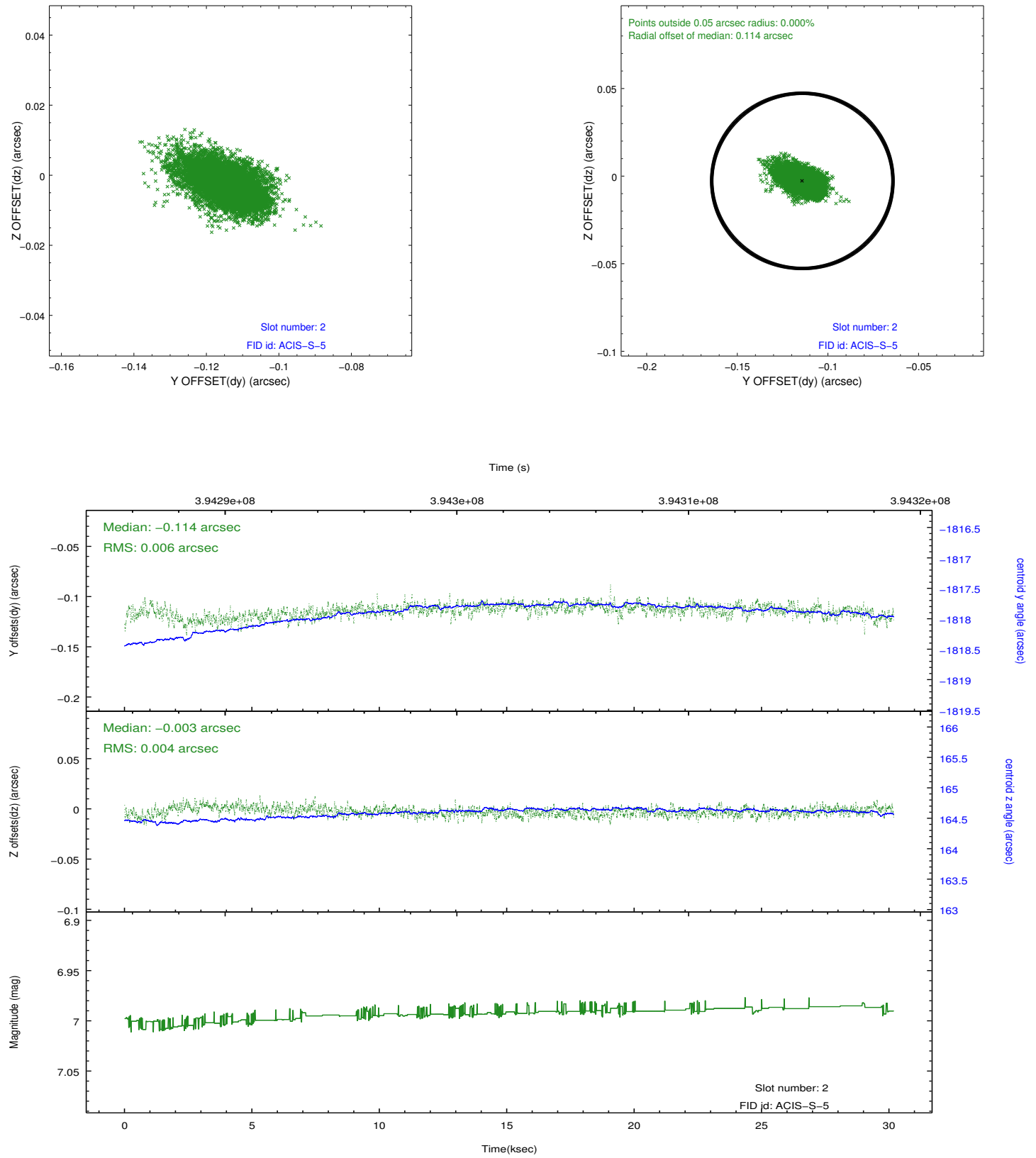
2.5.1 Slot 0



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)	2012.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.047999888122

A.2 Comments

Joint Proposal: NRAO