

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19959 - L2 Version 1
Chandra X-Ray Center

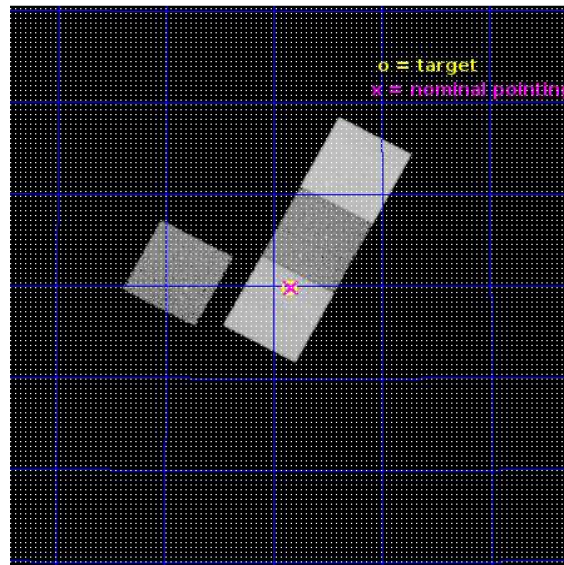
L2 Processing Date : Dec 13 2016

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1 Front

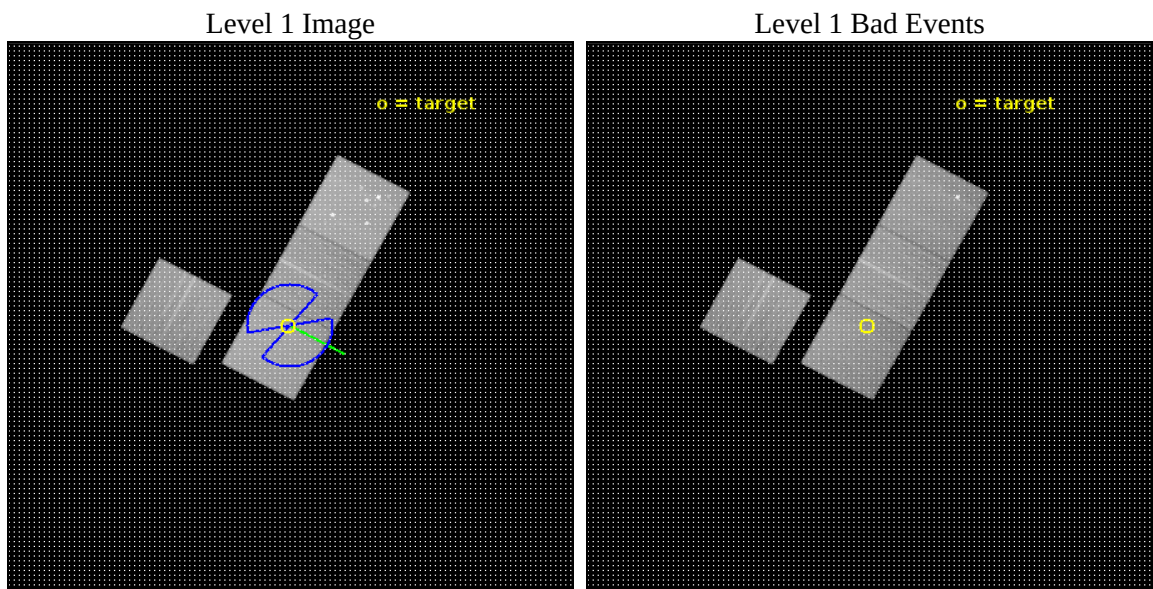
seq_num	703248	Sequence number
obs_id	19959	Observation id
title	A DETAILED VIEW OF AN EXTENDED X-RAY BRIGHT, RADIO FAINT BLACK HOLE JET AT REDSHIFT 2.5	Proposal title
observer	Dr. Aurora Simionescu	Principal investigator
object	B3 0727+409	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	112.71375	Observer's specified target RA [deg]
dec_targ	40.830833	Observer's specified target Dec [deg]
ra_nom	112.70903957137	Nominal RA [deg]
dec_nom	40.831032367798	Nominal Dec [deg]
roll_nom	118.15971023342	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40315.500310183	Sum of GTIs [s]
livetime	39788.74861879	Livetime [s]
ontime3	40315.500310183	Sum of GTIs [s]
ontime5	40315.500310183	Sum of GTIs [s]
ontime6	40312.35927999	Sum of GTIs [s]
ontime7	40315.500310183	Sum of GTIs [s]
l2events	415832	Number of level 2 events



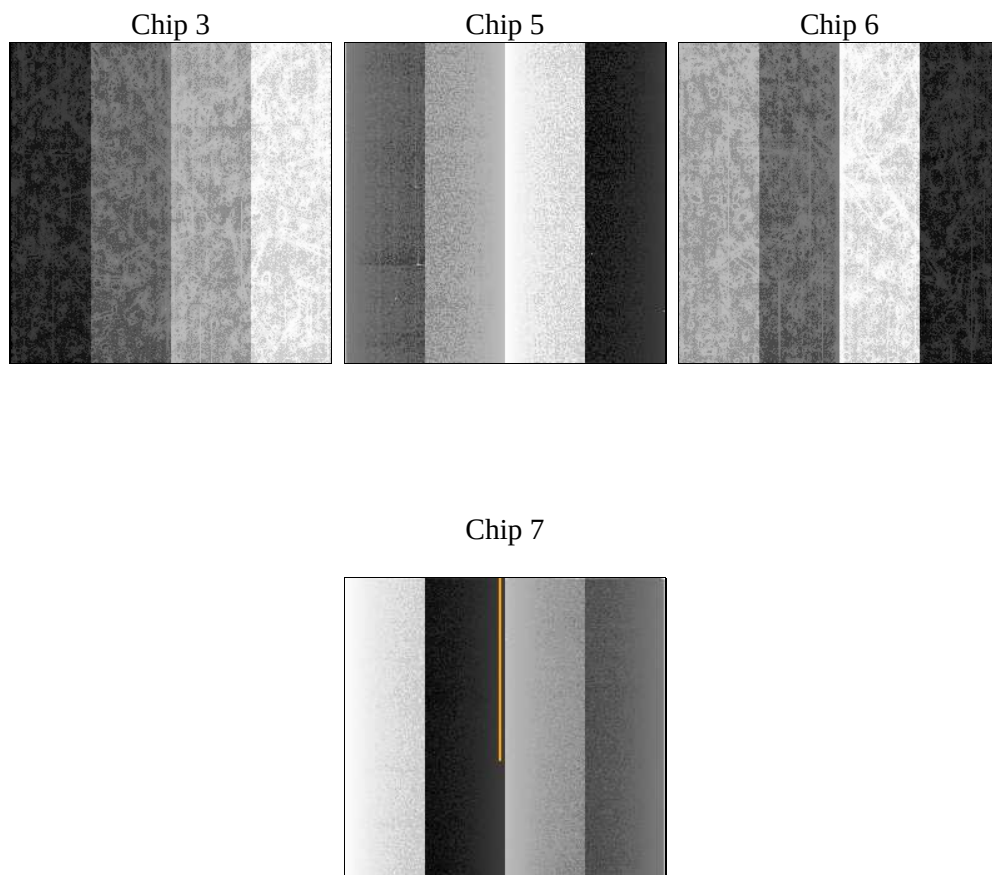
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40250.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	40315.500310183	Sum of GTIs [s]
caldsver	4.7.3	 	ontime3	40315.500310183	Sum of GTIs [s]
date	2016-12-13T18:30:10	Date and time of file creation	ontime5	40315.500310183	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	40312.35927999	Sum of GTIs [s]
			ontime7	40315.500310183	Sum of GTIs [s]
			l1events	1393925	Number of level 1 events

2.1.4 Events

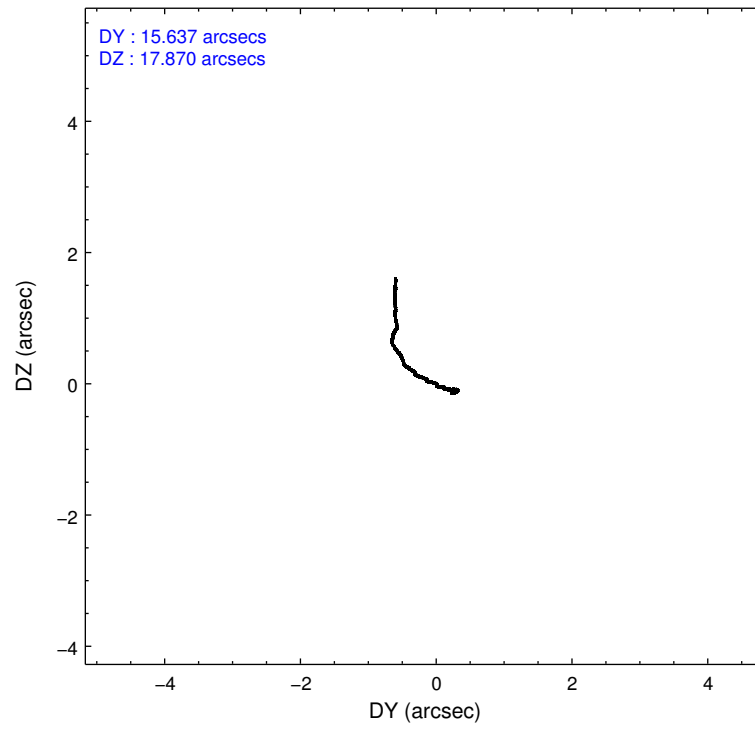
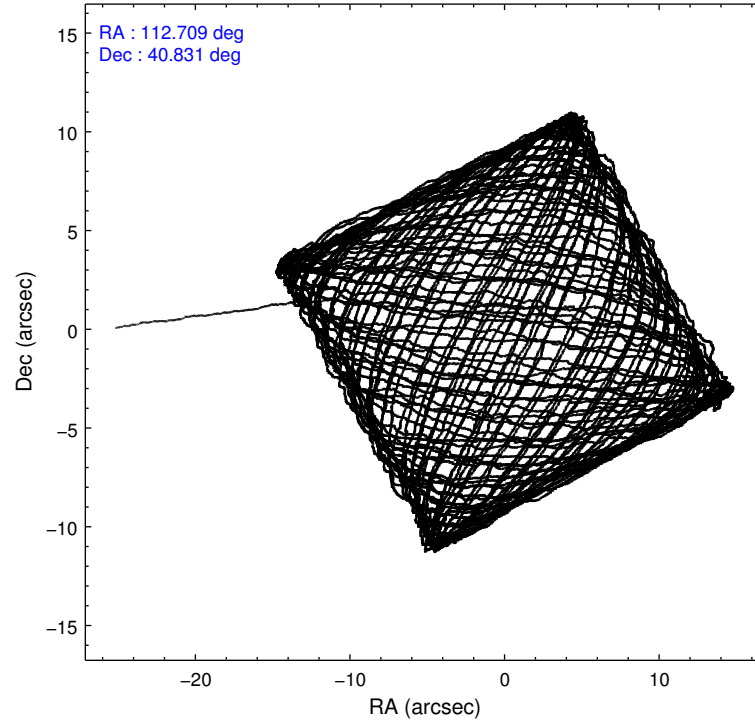
	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	269276	480225	282104	362320
rejected events	240236	239067	248446	202229
rejected %	89%	49%	88%	55%

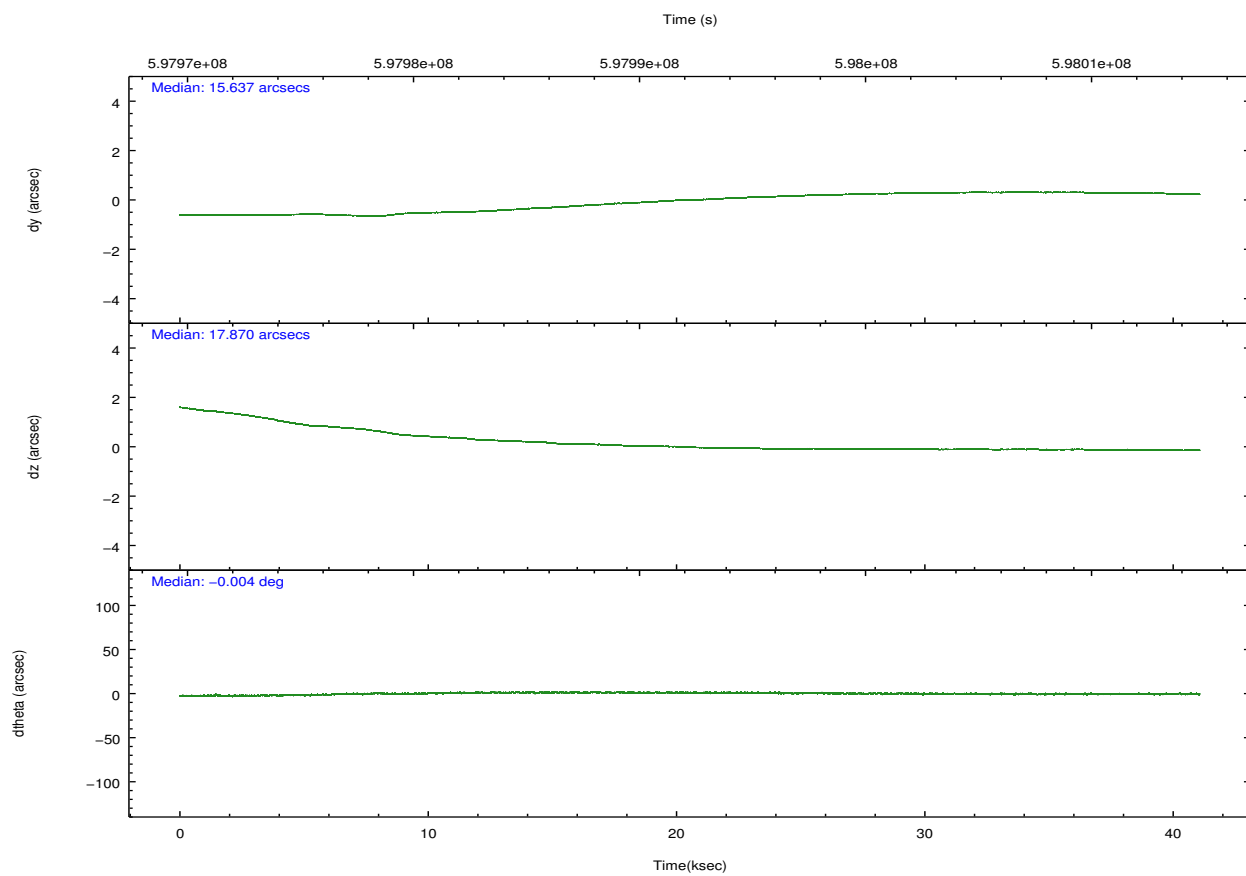
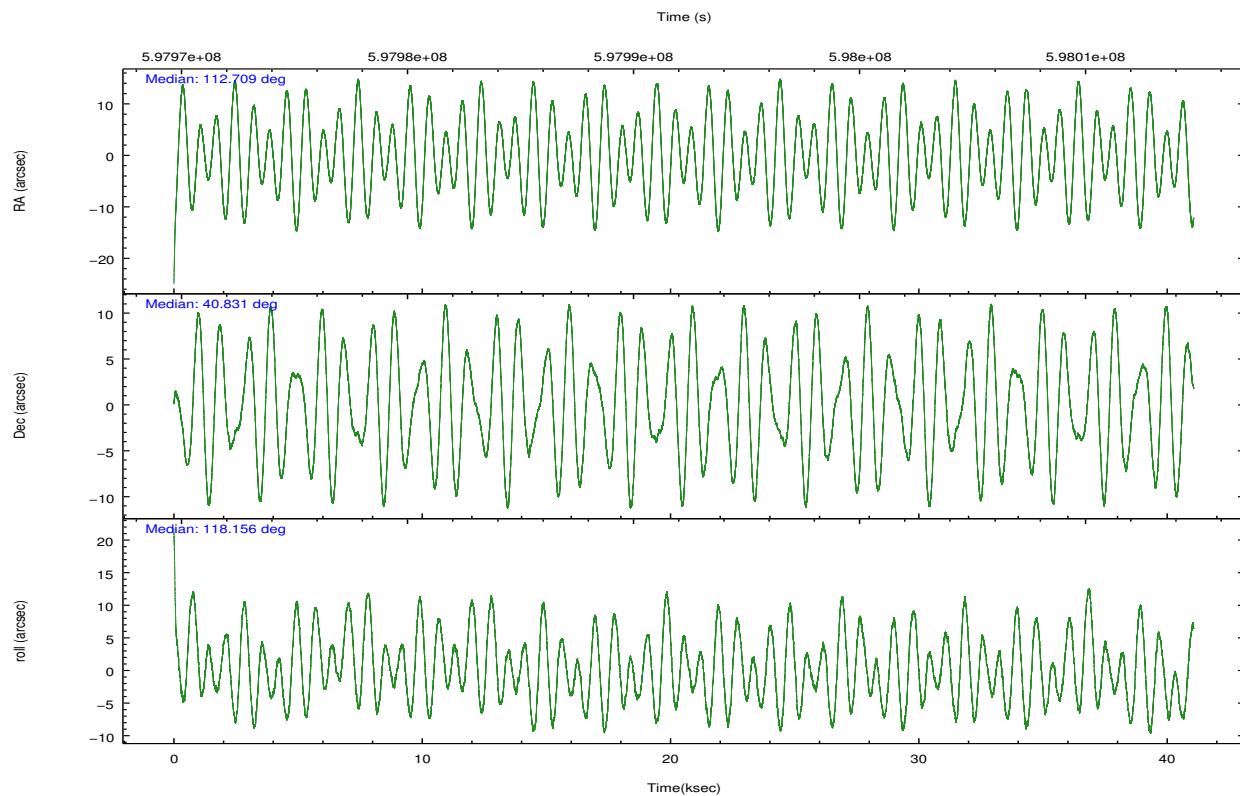
	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	10332	38561	12068	14131
	3%	8%	4%	3%
grade 1 events	167	935	144	472
	0%	0%	0%	0%
grade 2 events	6408	71883	7658	33770
	2%	14%	2%	9%
grade 3 events	3076	7036	3235	13043
	1%	1%	1%	3%
grade 4 events	3090	6579	3226	12966
	1%	1%	1%	3%
grade 5 events	13302	31573	13478	36458
	4%	6%	4%	10%
grade 6 events	6141	117140	7477	86209
	2%	24%	2%	23%
grade 7 events	226760	206518	234818	165271
	84%	43%	83%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3567	ACIS-3567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	112.740113	112.7090395713683	CCD I2 on	O1	N
[deg] Pointing Dec	40.816854	40.83103236779795	CCD I3 on	O2	Y
[deg] Pointing Roll	117.982767	118.1597102334167	CCD S0 on	N	N
[deg] Roll angle	150.000000	150.000000	CCD S1 on	Y	Y
[deg] Roll tolerance	70.000000	70.000000	CCD S2 on	Y	Y
Roll constraint allows 180D rotation	Y	Y	CCD S3 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S4 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S5 on	N	N
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	Number of optional ACIS chips dropped	1	1
[mm] SIM translation stage offset	0	0.00754346686406393	On-chip summing requested	N	N
[s] Observation start time (MET)	597972503.184000	597970549.78073	Subarray requested	NONE	NONE
Observation start date	2016-12-12T23:27:15	2016-12-12T22:55:49	Alternating exposures requested	N	N
[s] Observation end time (MET)	598012753.184000	598013801.19573	[s] Primary exposure time	0.000000	3.1
Observation end date	2016-12-13T10:38:05	2016-12-13T10:56:41			
Read mode	TIMED	TIMED			

2.3 Aspect



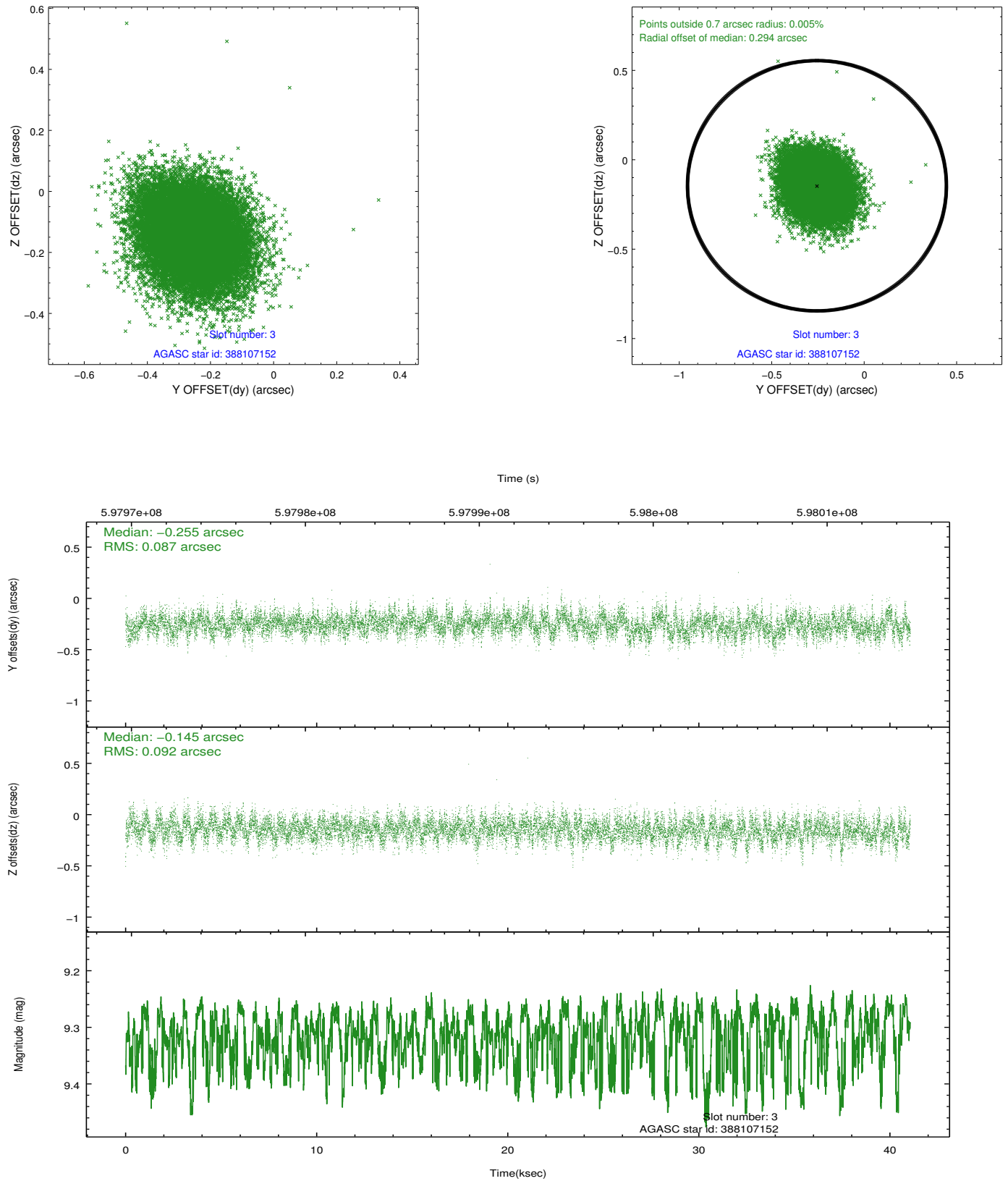


Slot Statistics

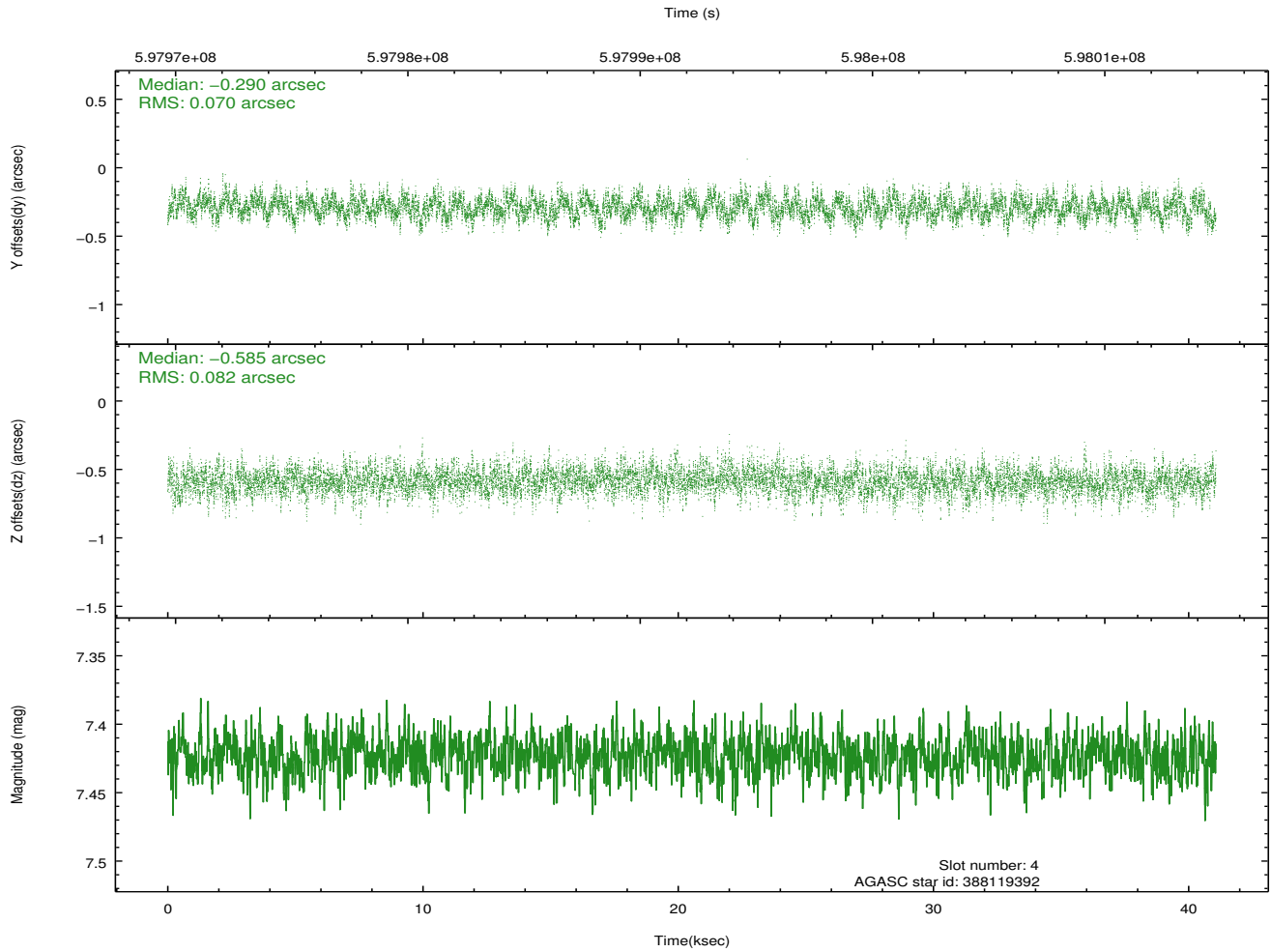
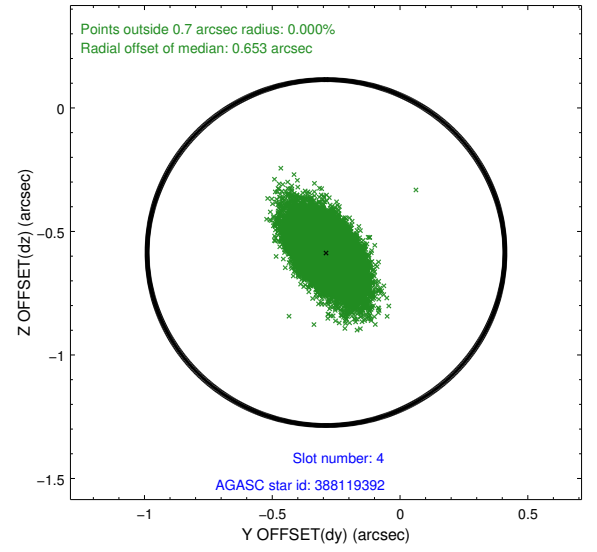
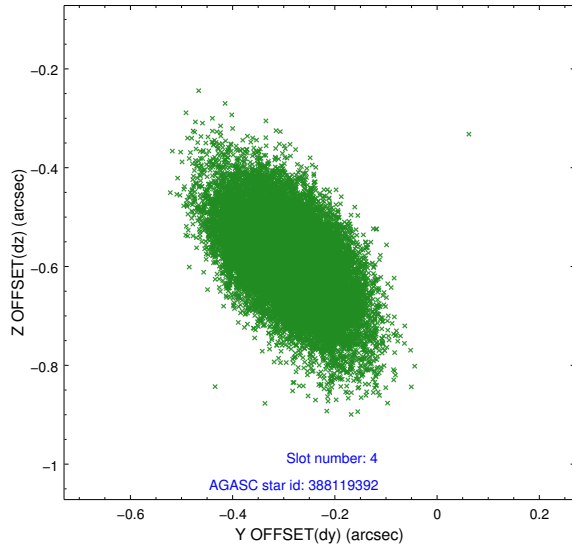
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	10016	-0.178	-0.107	0.009	0.031	0.000000	0.000000	-768.71	-1739.66
1	FID		ACIS-S-4	7.08	10017	0.426	0.115	0.013	0.029	0.000000	0.000000	2145.18	169.01
2	FID		ACIS-S-5	7.07	10017	-0.280	0.002	0.012	0.025	0.000000	0.000000	-1821.63	162.60
3	GUIDE	used	388107152	9.31	20018	-0.255	-0.145	0.134	0.220	111.952487	41.211973	2265.38	1211.92
4	GUIDE	used	388119392	7.42	20030	-0.290	-0.585	0.111	0.193	112.044138	40.656586	387.65	1944.22
5	GUIDE	used	388245200	7.46	20031	-0.081	-0.310	0.113	0.197	112.557176	40.846148	327.28	390.59
6	GUIDE	used	388238336	7.20	20030	0.170	0.347	0.105	0.179	113.439888	41.173941	252.77	-2280.74
7	GUIDE	used	388244952	7.73	20026	0.450	0.702	0.104	0.170	113.817171	40.506408	-2353.49	-2086.99

2.4 Star Slots

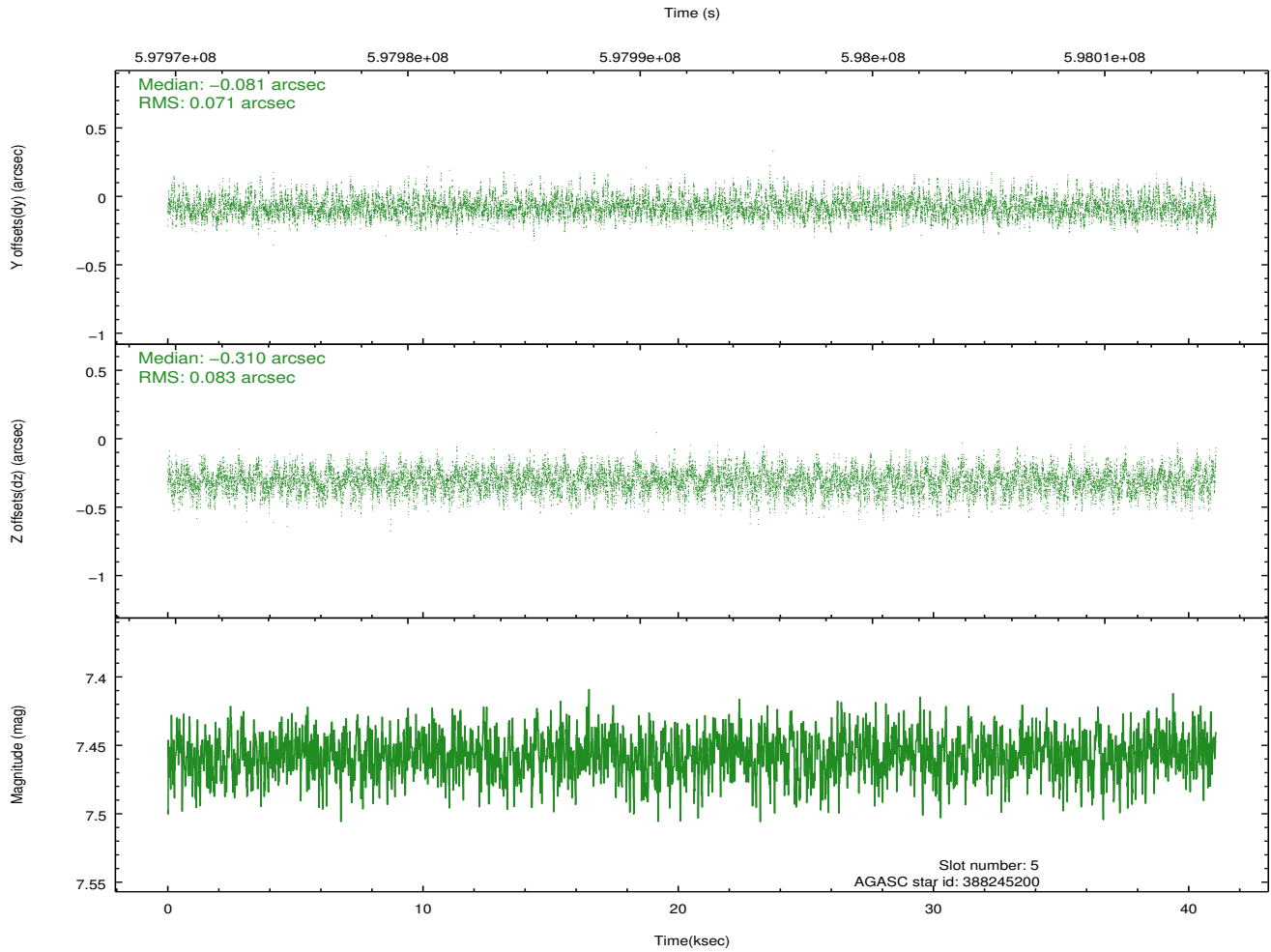
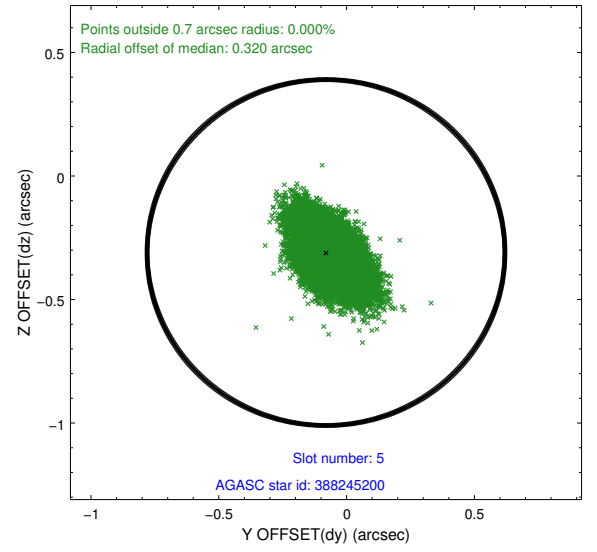
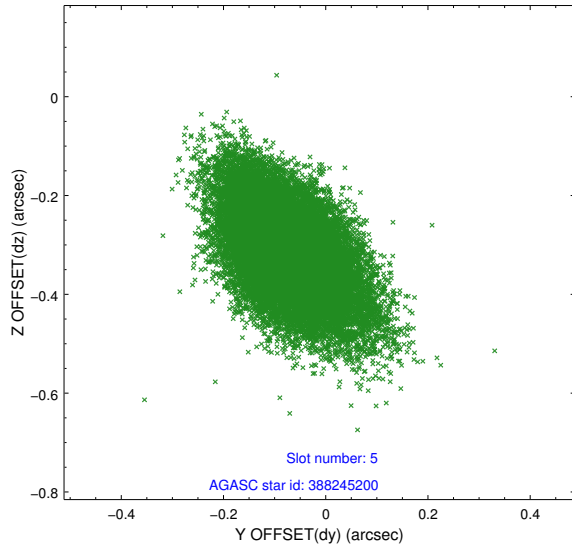
2.4.1 Slot 3



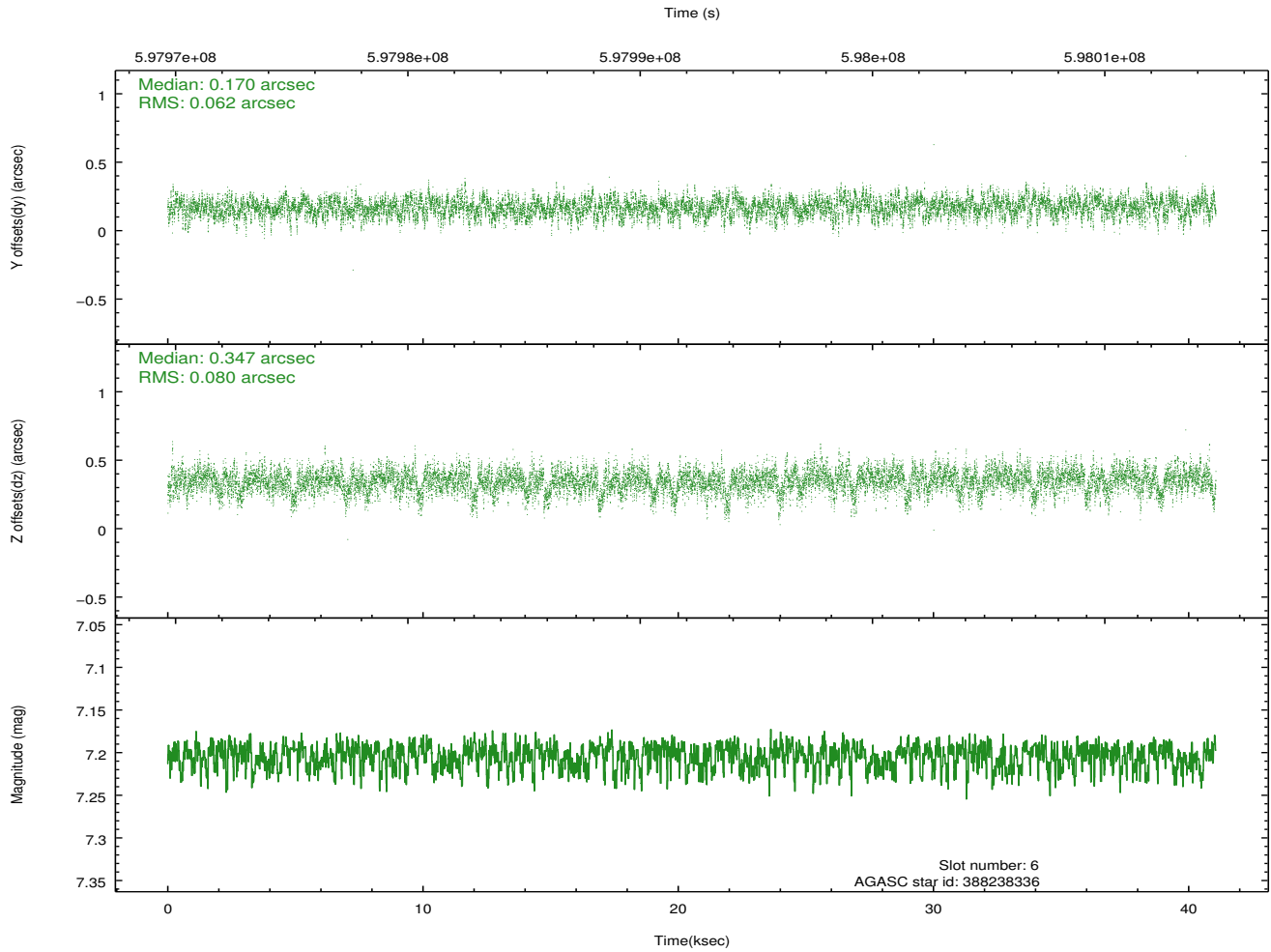
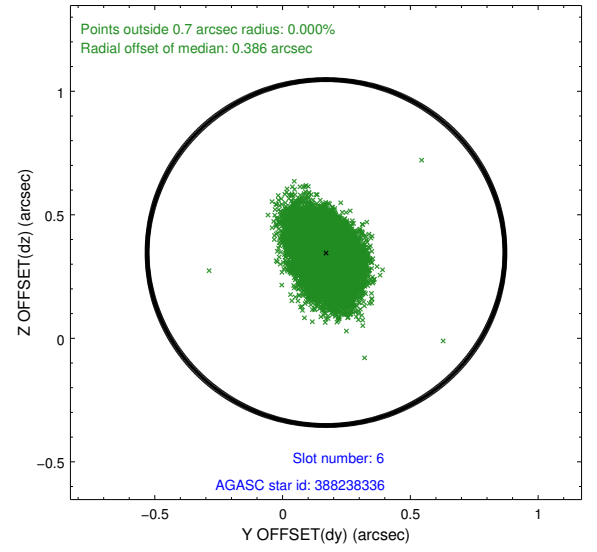
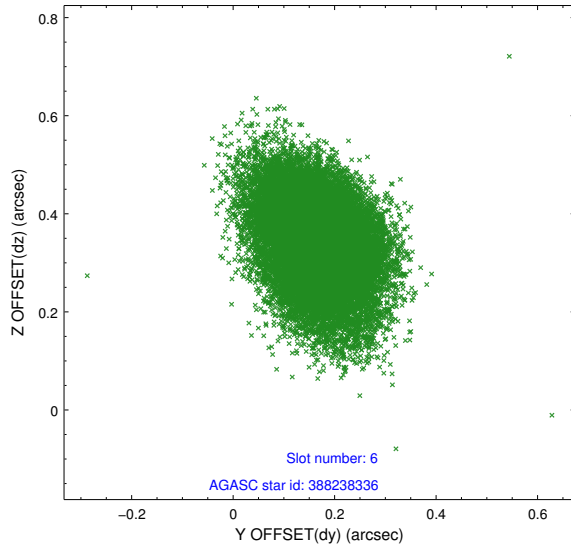
2.4.2 Slot 4



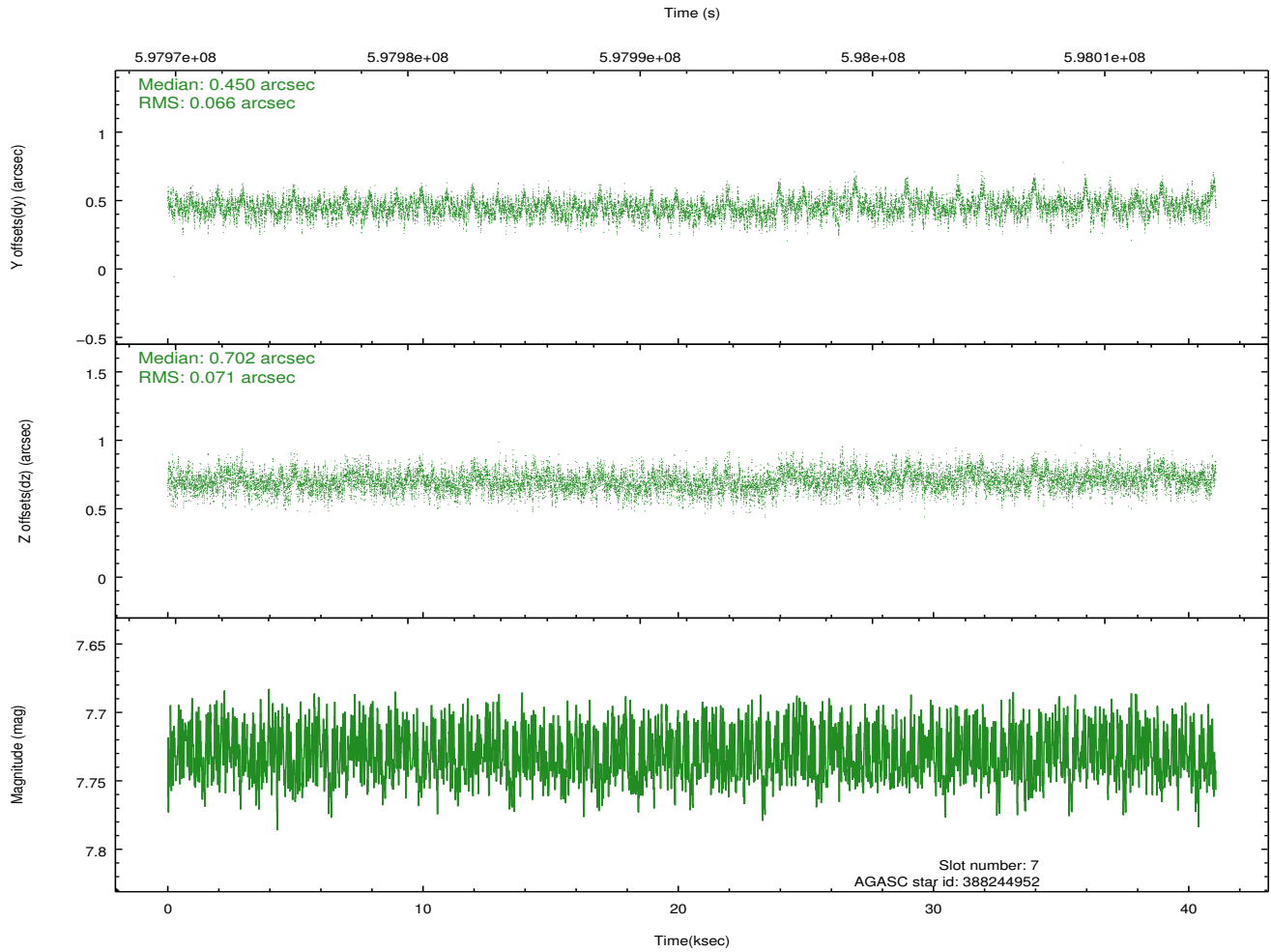
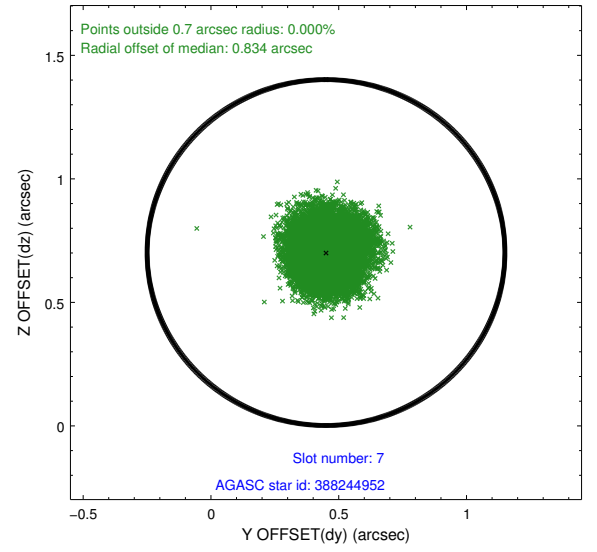
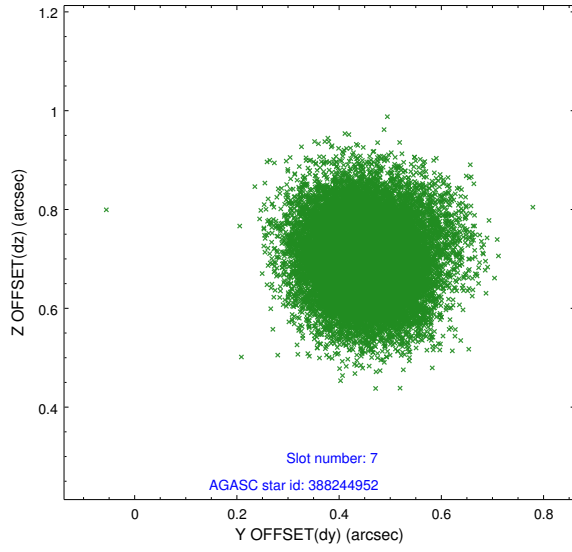
2.4.3 Slot 5



2.4.4 Slot 6

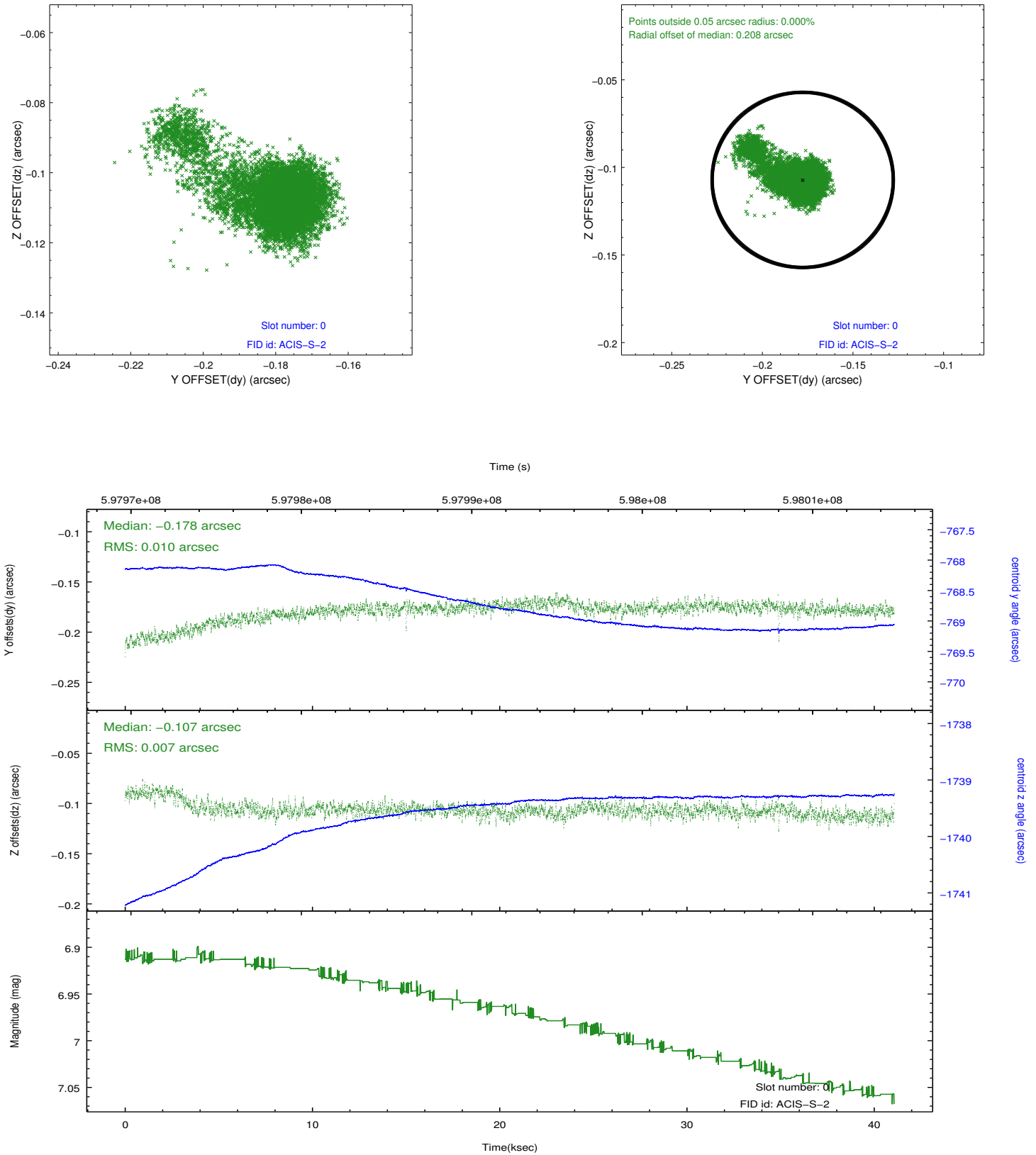


2.4.5 Slot 7

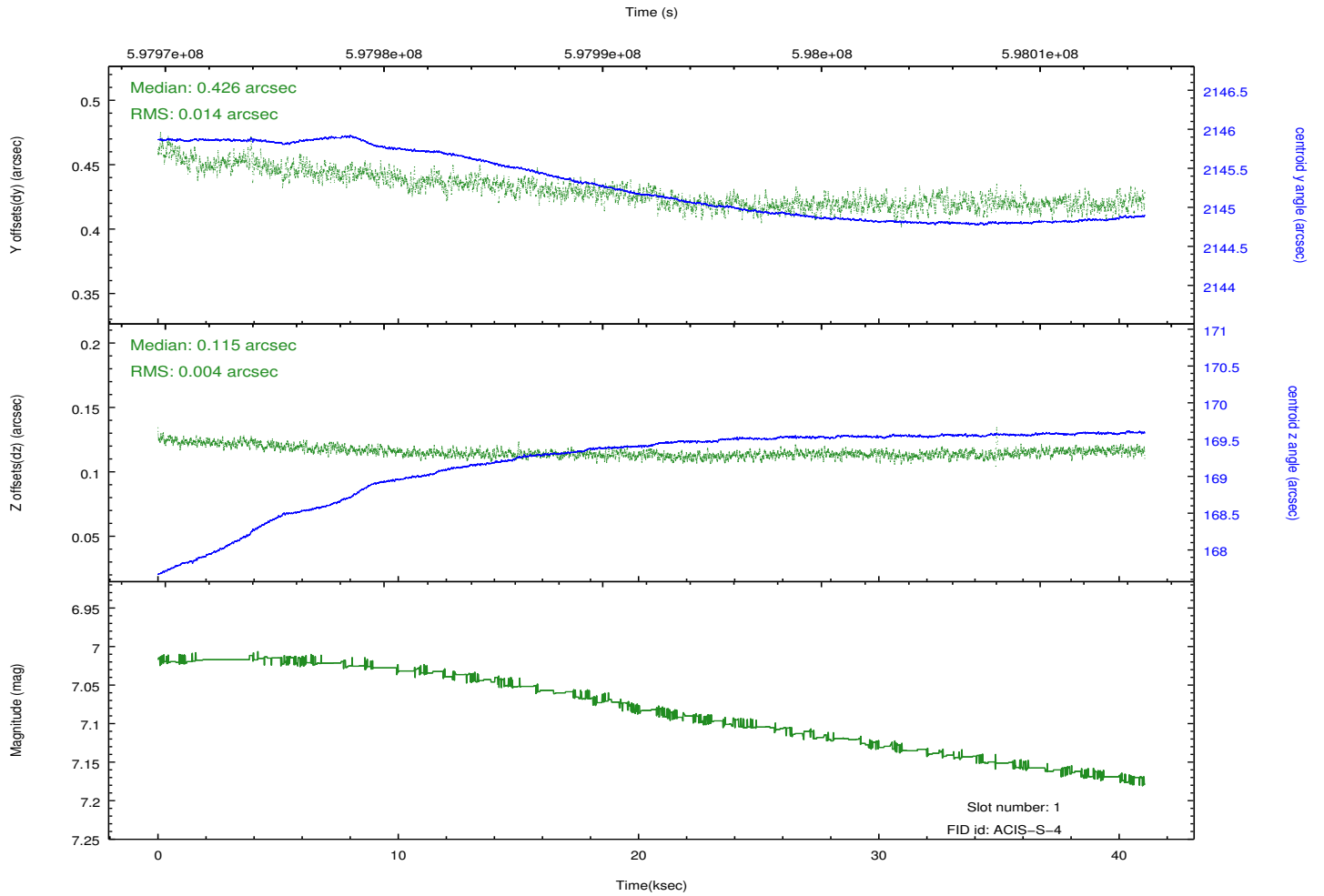
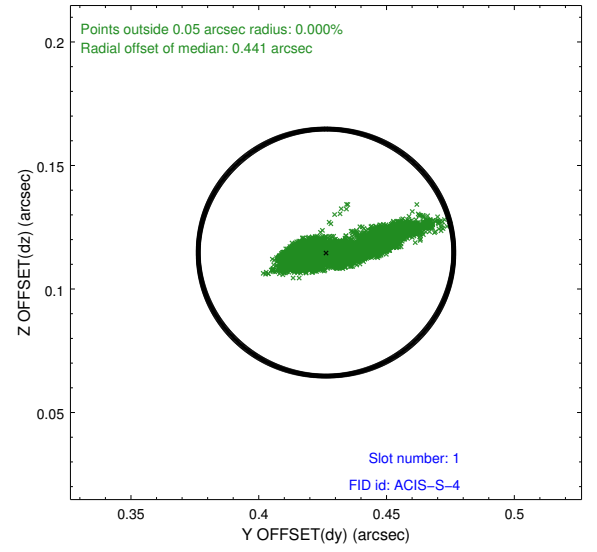
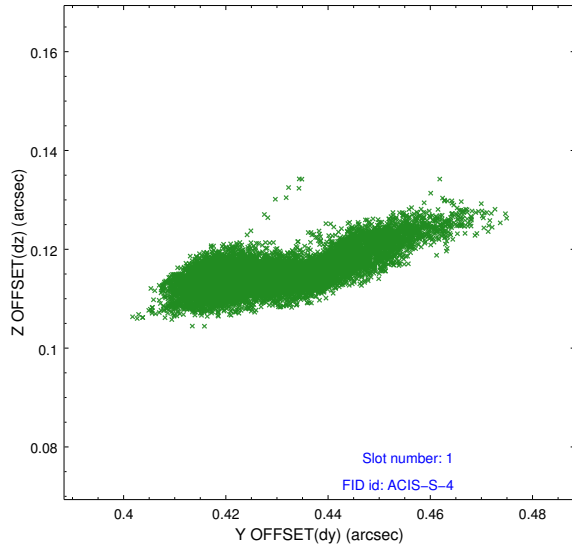


2.5 FID Slots

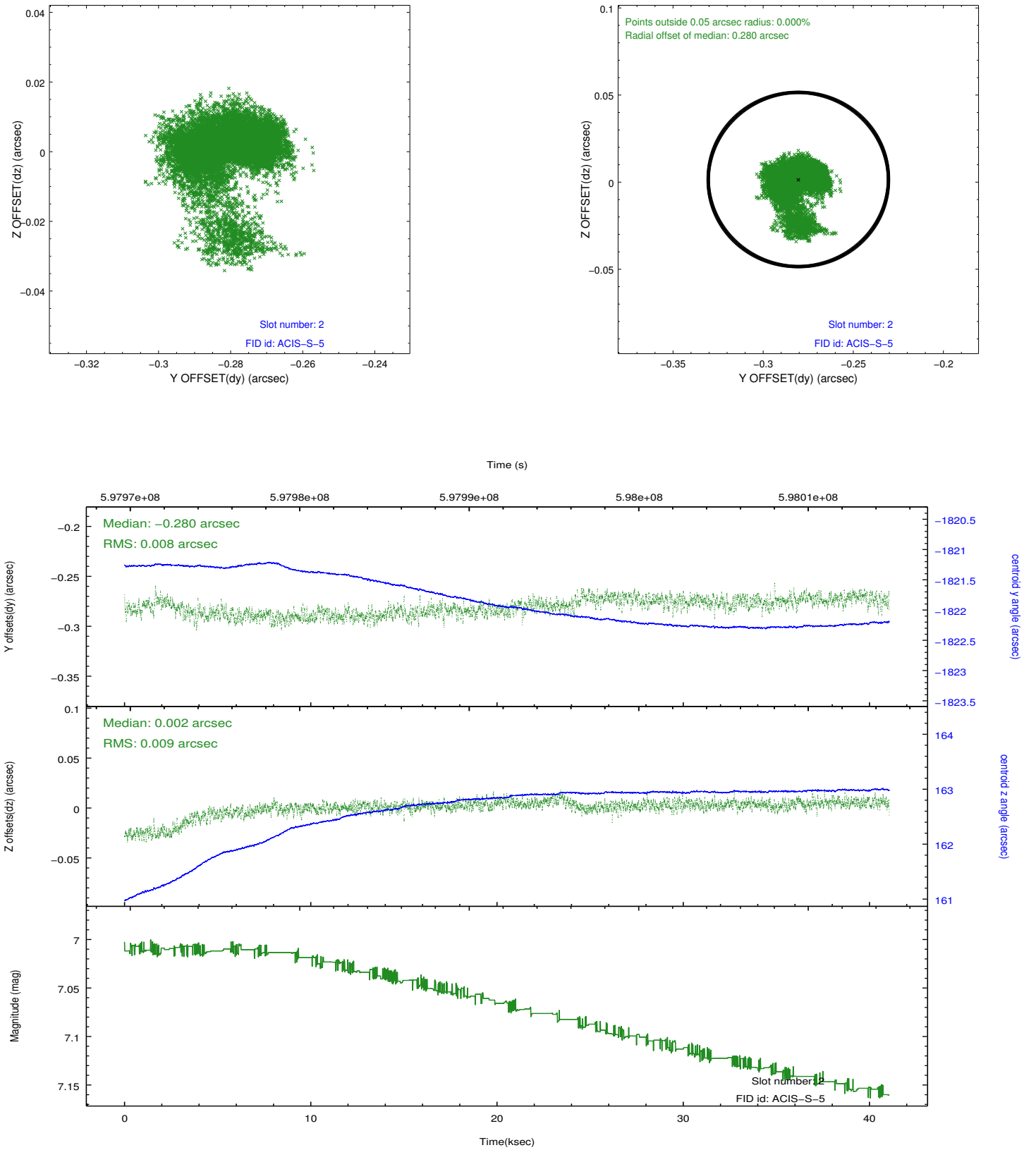
2.5.1 Slot 0



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)	2016.12.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.315500310183

A.2 Comments

Joint Proposal with NRAO. Roll constraint met. Optional chip I2 not included.