

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21687 - L2 Version 1
Chandra X-Ray Center

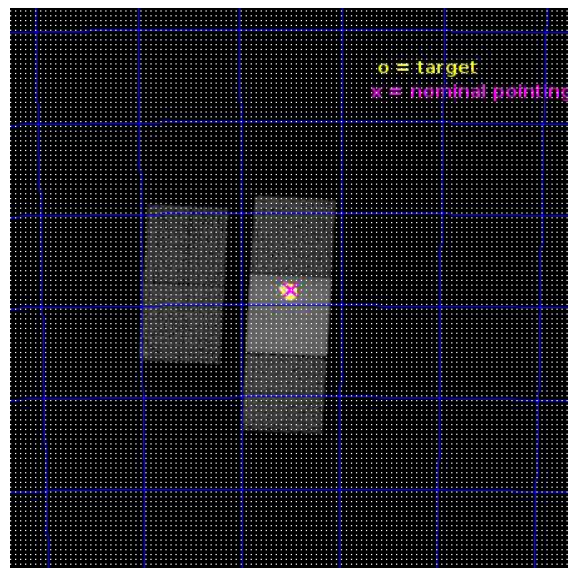
L2 Processing Date : Sep 12 2019

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

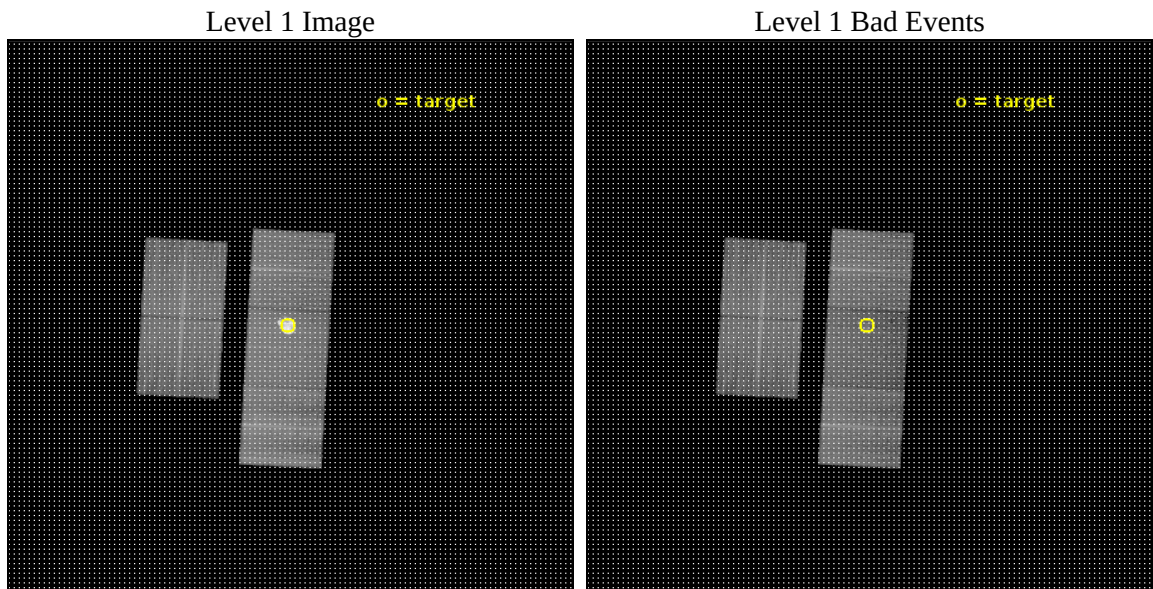
seq_num	503141	Sequence number
obs_id	21687	Observation id
title	GTO Portion of a Legacy Observation of N132D, the Most Luminous SNR in the Local Group	Proposal title
observer	Gordon Garmire	Principal investigator
object	N132D	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	81.25875	Observer's specified target RA [deg]
dec_targ	-69.641667	Observer's specified target Dec [deg]
ra_nom	81.246687403575	Nominal RA [deg]
dec_nom	-69.638990126834	Nominal Dec [deg]
roll_nom	93.145274356776	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25057.300192833	Sum of GTIs [s]
livetime	24729.908118898	Livetime [s]
ontime2	25054.072877169	Sum of GTIs [s]
ontime3	25051.013967156	Sum of GTIs [s]
ontime6	25054.159192681	Sum of GTIs [s]
ontime7	25057.300192833	Sum of GTIs [s]
ontime8	25054.114026666	Sum of GTIs [s]
l2events	417787	Number of level 2 events



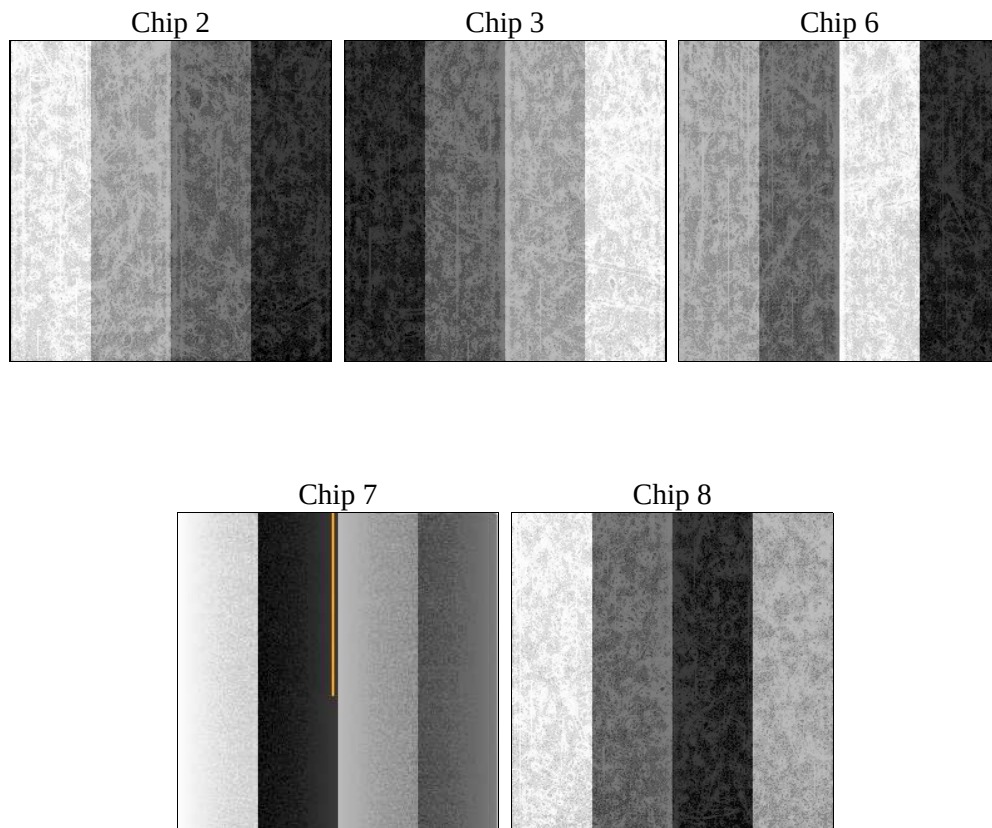
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	25057.300192833	Sum of GTIs [s]
caldsver	4.8.4.1	 	ontime2	25054.072877169	Sum of GTIs [s]
date	2019-09-12T06:41:04	Date and time of file creation	ontime3	25051.013967156	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	25054.159192681	Sum of GTIs [s]
			ontime7	25057.300192833	Sum of GTIs [s]
			ontime8	25054.114026666	Sum of GTIs [s]
			l1events	1237664	Number of level 1 events

2.1.4 Events

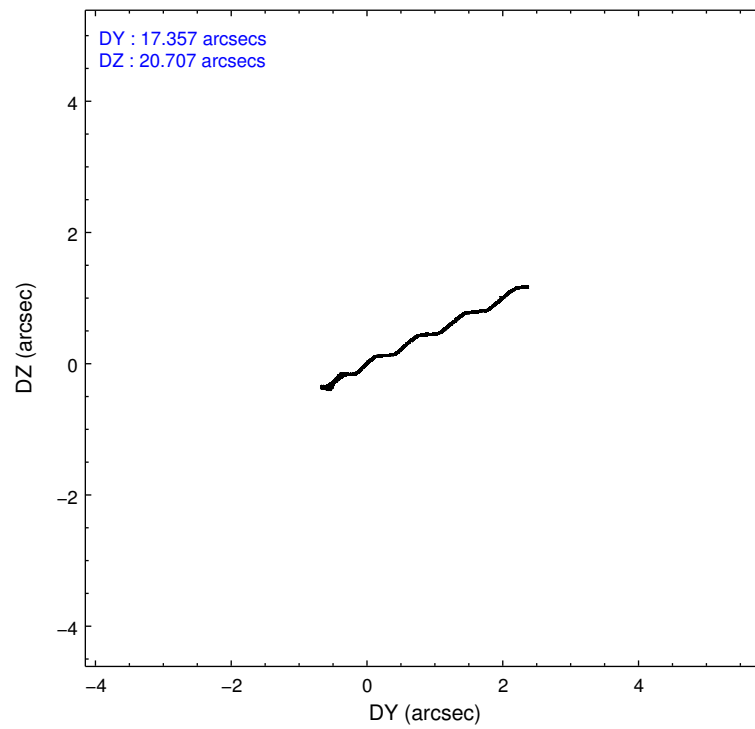
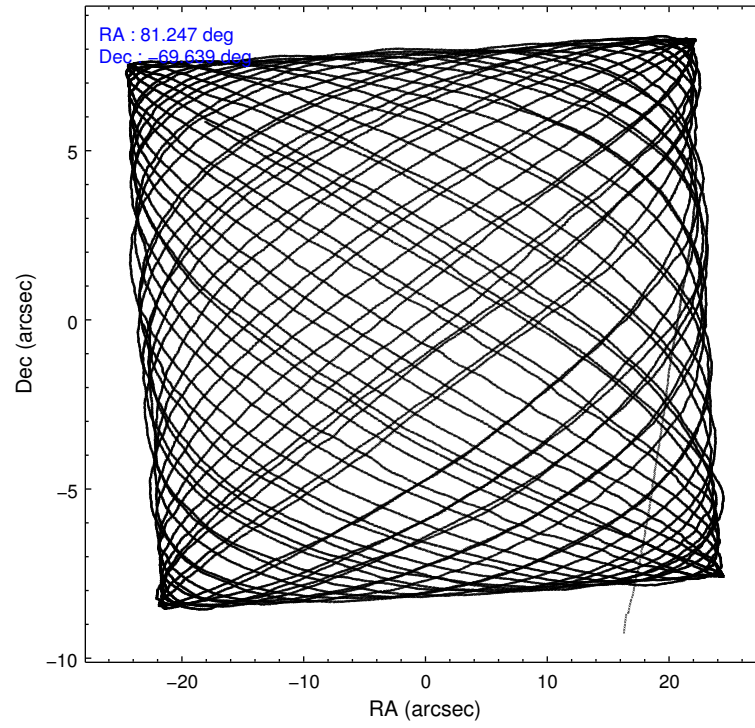
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	179207	167736	188275	462701	239745
rejected events	159290	148574	166271	111363	169130
rejected %	88%	88%	88%	24%	70%

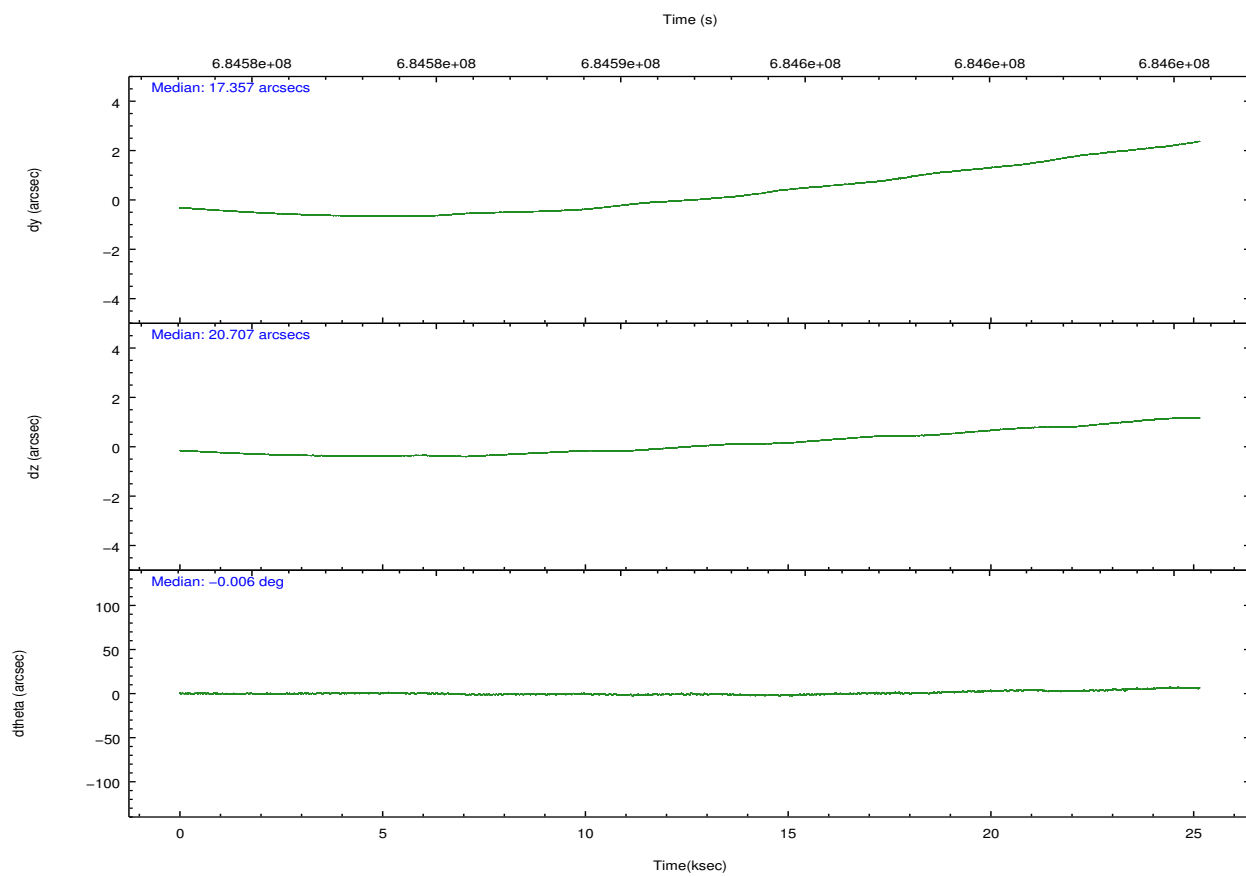
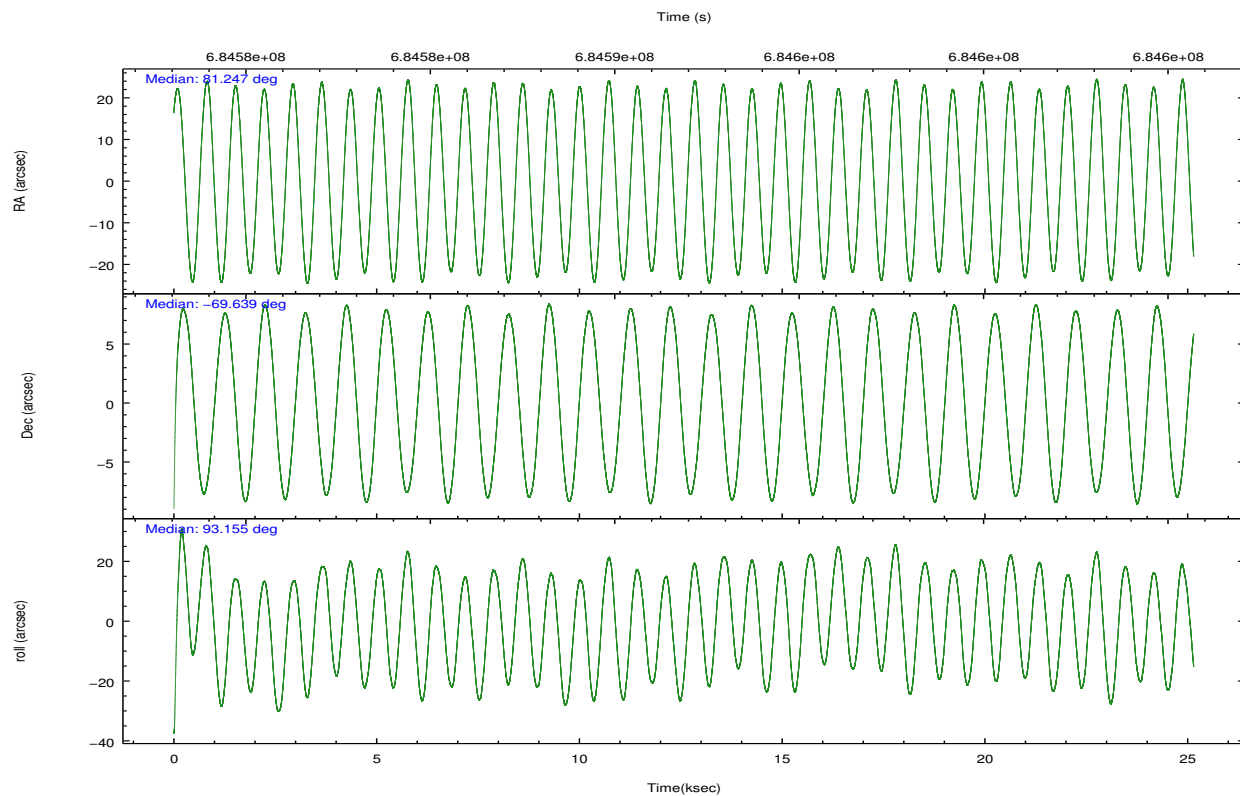
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	7540	7427	8379	84369	19477
	4%	4%	4%	18%	8%
grade 1 events	111	111	98	811	201
	0%	0%	0%	0%	0%
grade 2 events	5019	4273	5041	93272	17056
	2%	2%	2%	20%	7%
grade 3 events	1849	1944	2010	38474	7465
	1%	1%	1%	8%	3%
grade 4 events	1930	1914	2082	37180	7202
	1%	1%	1%	8%	3%
grade 5 events	6070	7206	7338	22961	11641
	3%	4%	3%	4%	4%
grade 6 events	3587	3607	4495	98117	19428
	2%	2%	2%	21%	8%
grade 7 events	153101	141254	158832	87517	157275
	85%	84%	84%	18%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	81.290687	81.24668740357497	CCD I2 on	O1	Y
[deg] Pointing Dec	-69.661777	-69.63899012683427	CCD I3 on	O2	Y
[deg] Pointing Roll	93.029946	93.14527435677627	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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	O3	Y
[s] Observation start time (MET)	684579446.184000	684578410.18633	CCD S5 on	N	N
Observation start date	2019-09-11T08:56:17	2019-09-11T08:40:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	684604446.184000	684605932.97549	On-chip summing requested	N	N
Observation end date	2019-09-11T15:52:57	2019-09-11T16:18:52	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



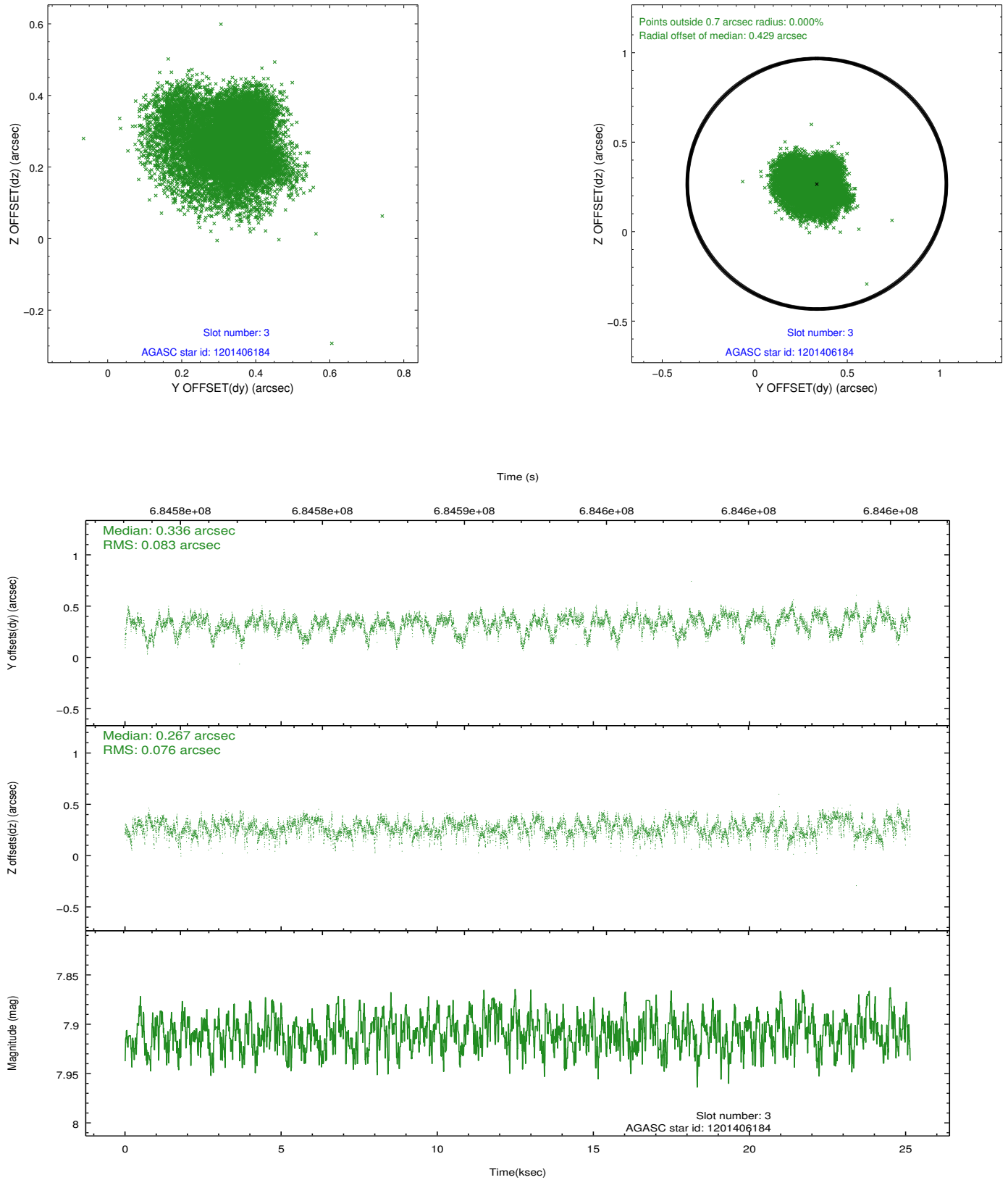


Slot Statistics

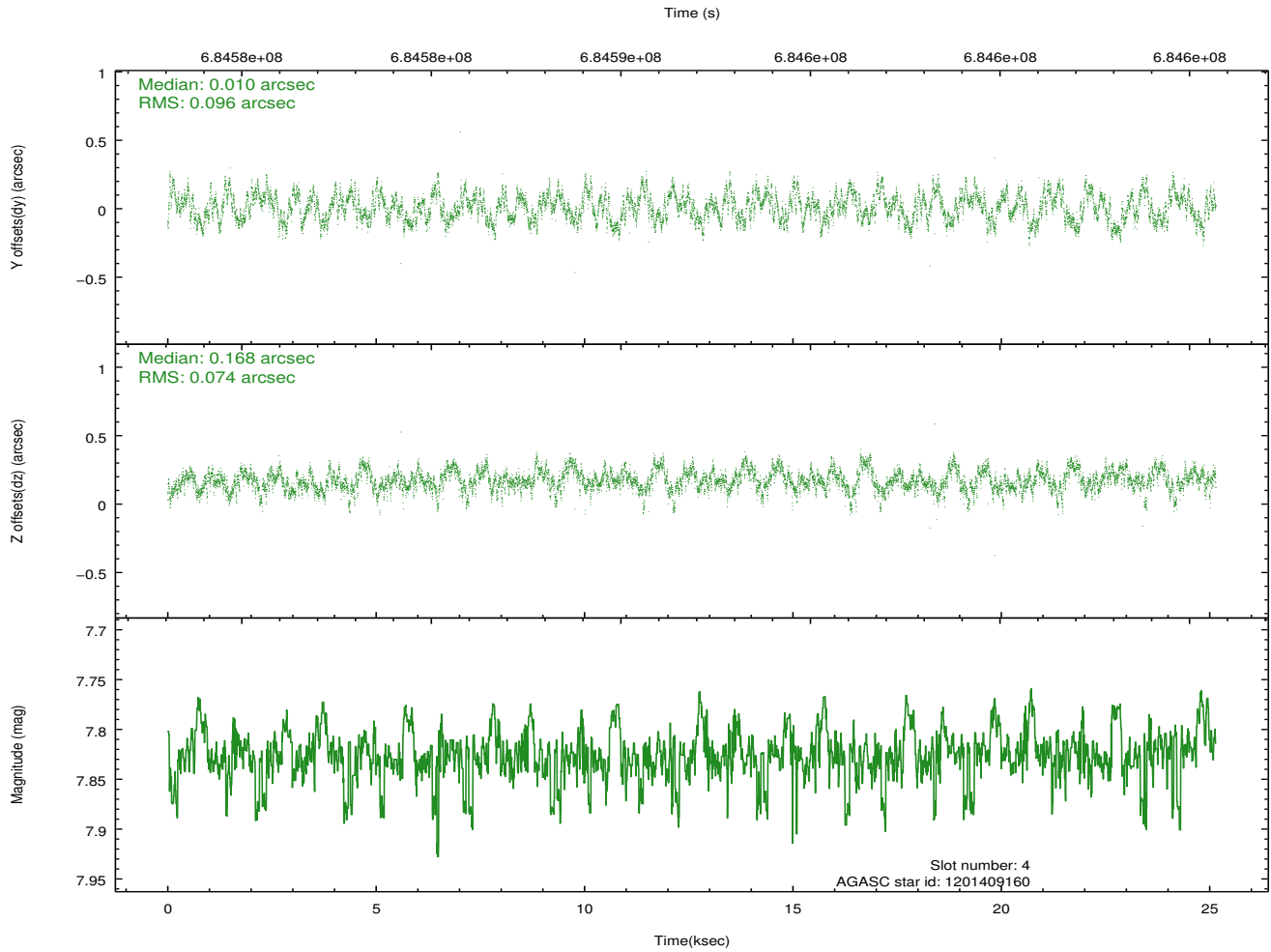
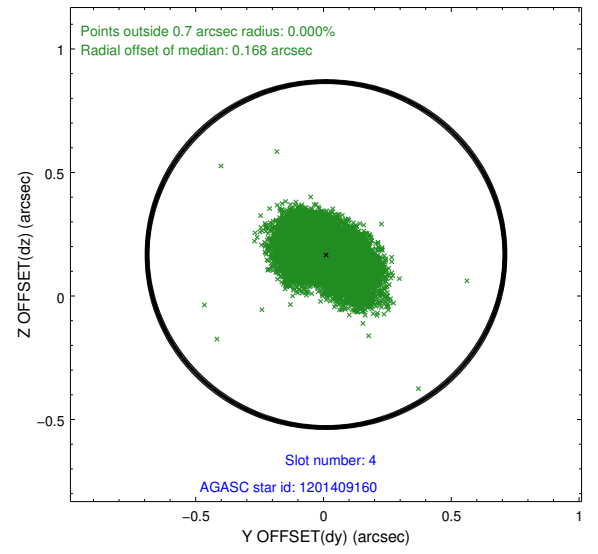
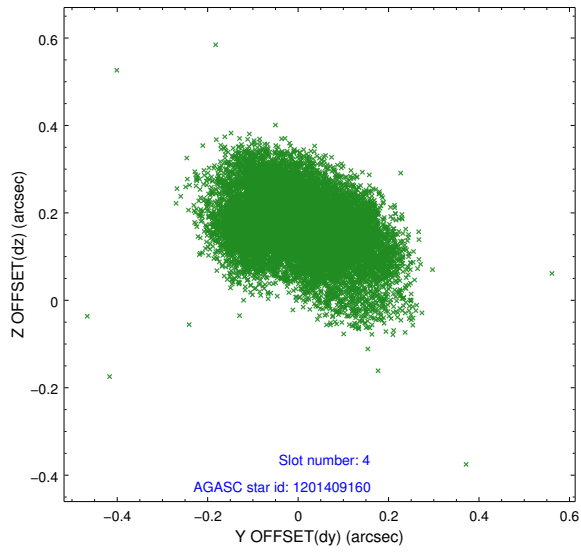
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.98	6134	1.000	-0.324	-0.215	0.021	0.071	0.000000	0.000000	-770.99	-1742
1	FID		ACIS-S-4	7.09	6134	1.000	0.796	0.212	0.012	0.030	0.000000	0.000000	2143.28	166
2	FID		ACIS-S-5	7.05	6133	1.000	-0.504	0.012	0.016	0.046	0.000000	0.000000	-1823.93	159
3	GUIDE	used	1201406184	7.91	12261	1.000	0.336	0.267	0.119	0.199	82.503234	-69.975517	-1220.21	-1431
4	GUIDE	used	1201409160	7.83	12260	1.000	0.010	0.168	0.130	0.207	81.660661	-70.063595	-1468.12	-375
5	GUIDE	used	1201409312	9.24	12239	1.000	-0.419	-0.498	0.242	0.391	80.915231	-69.503059	595.19	442
6	GUIDE	used	1201409792	8.81	12258	1.000	0.362	0.278	0.158	0.269	82.417975	-70.260186	-2234.68	-1252
7	GUIDE	used	1201410888	8.00	12263	1.000	-0.287	-0.211	0.121	0.190	81.046858	-70.018210	-1264.97	367

2.4 Star Slots

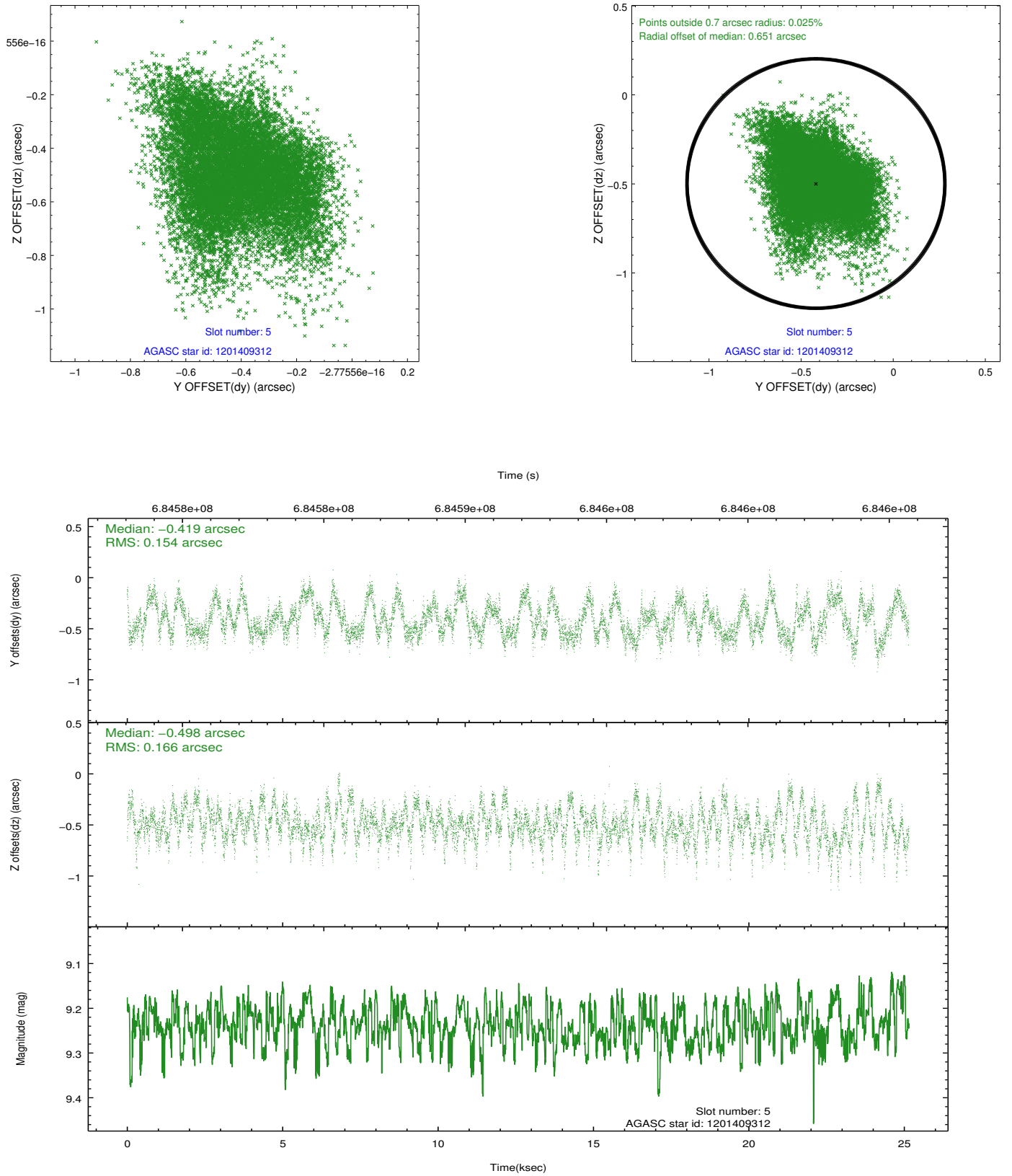
2.4.1 Slot 3



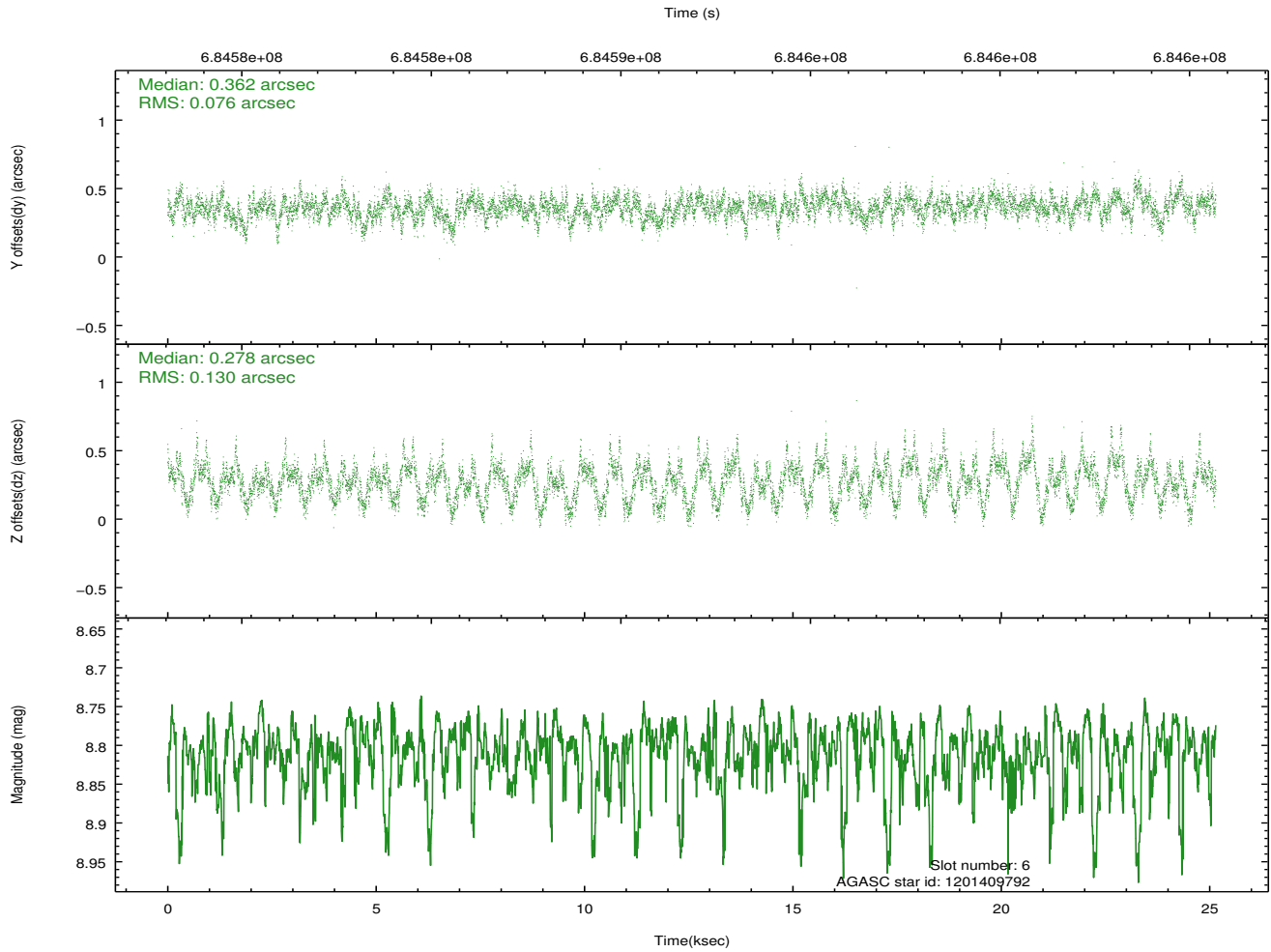
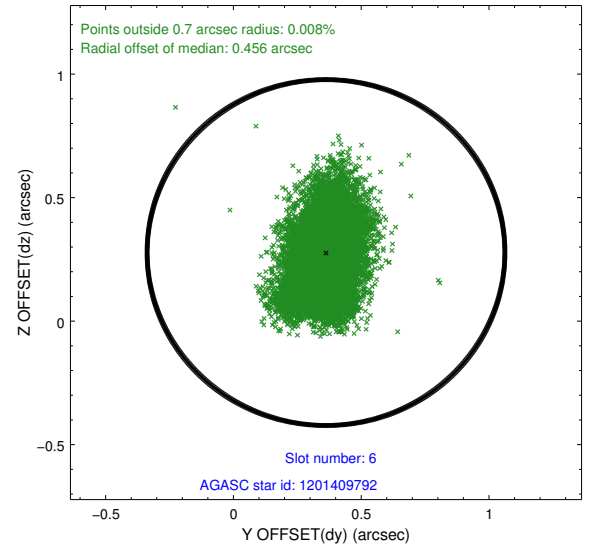
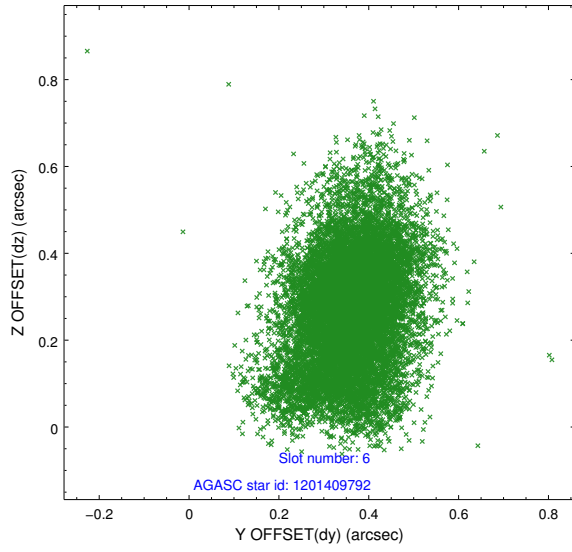
2.4.2 Slot 4



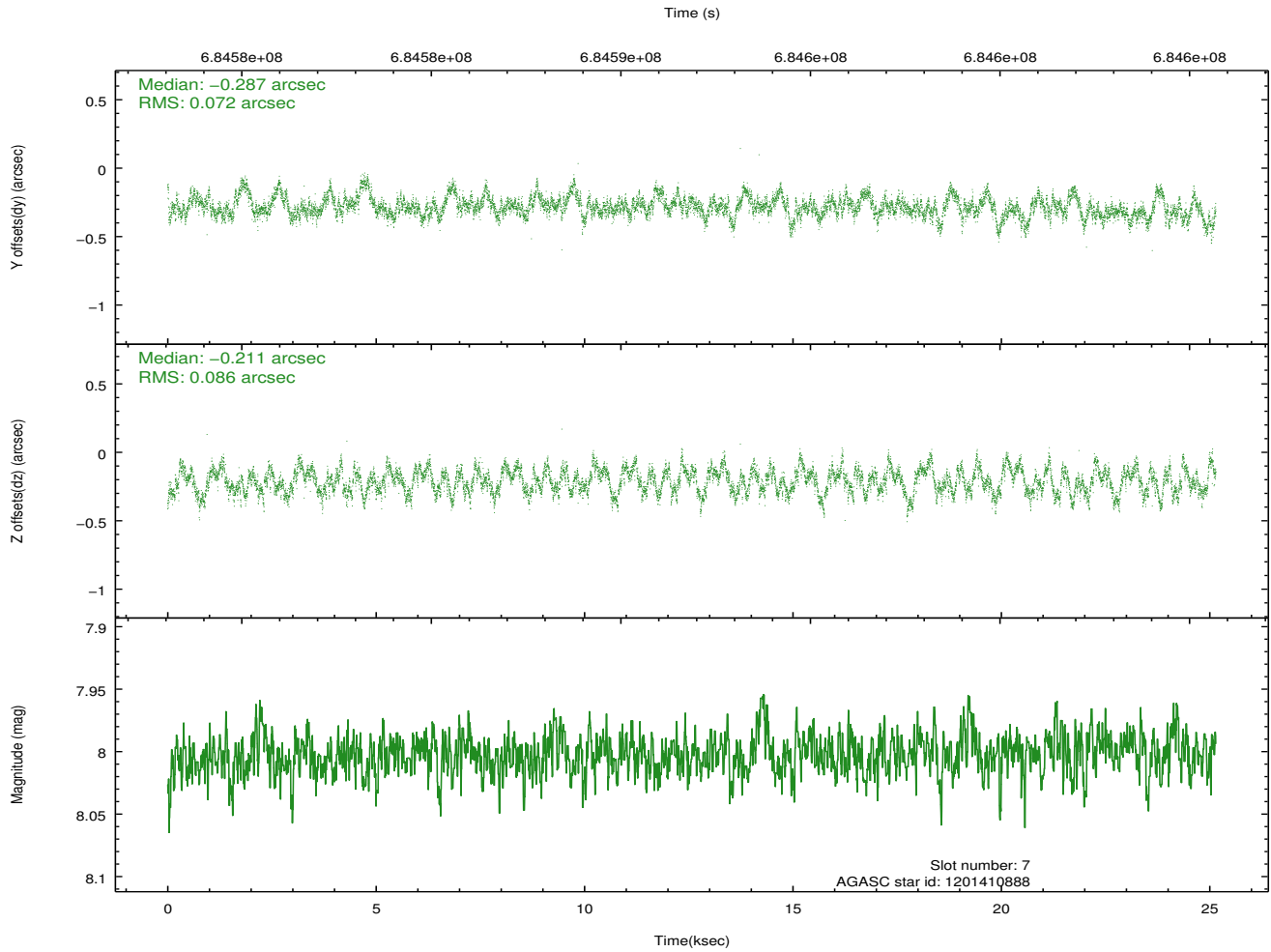
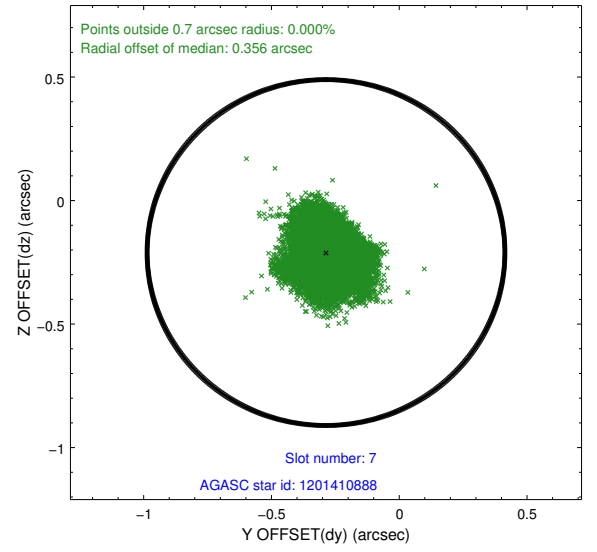
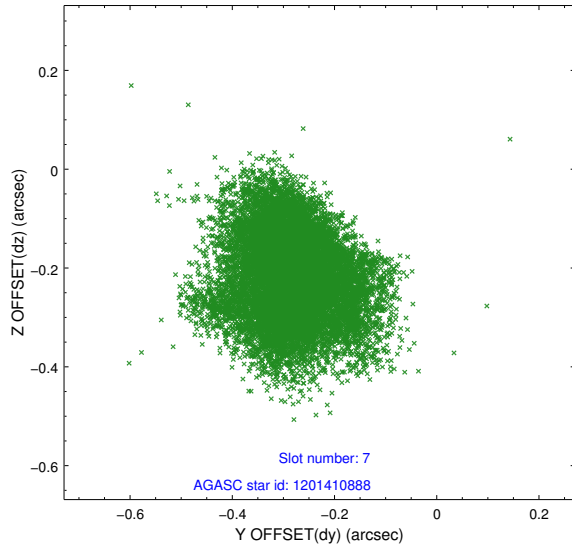
2.4.3 Slot 5



2.4.4 Slot 6

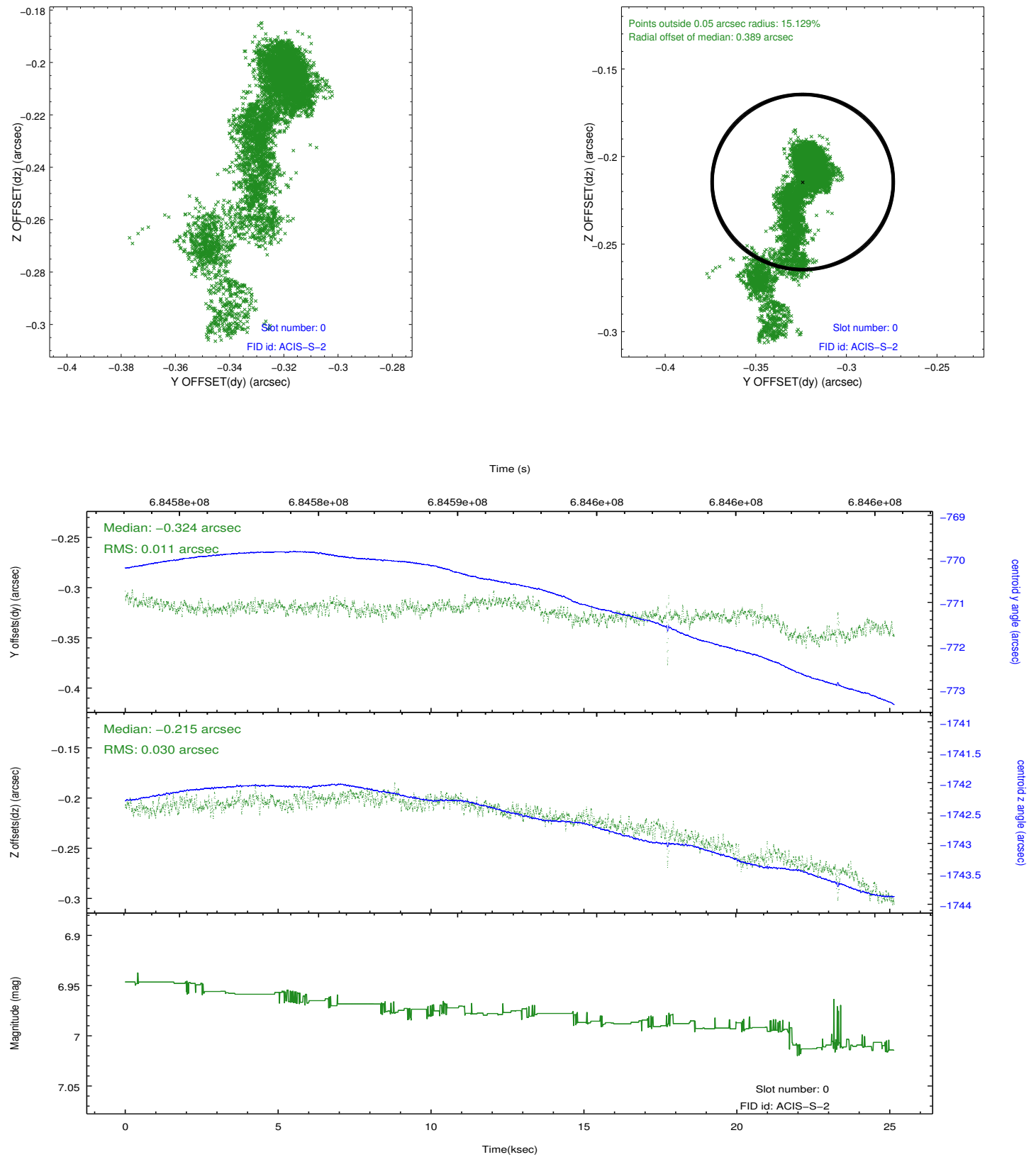


2.4.5 Slot 7

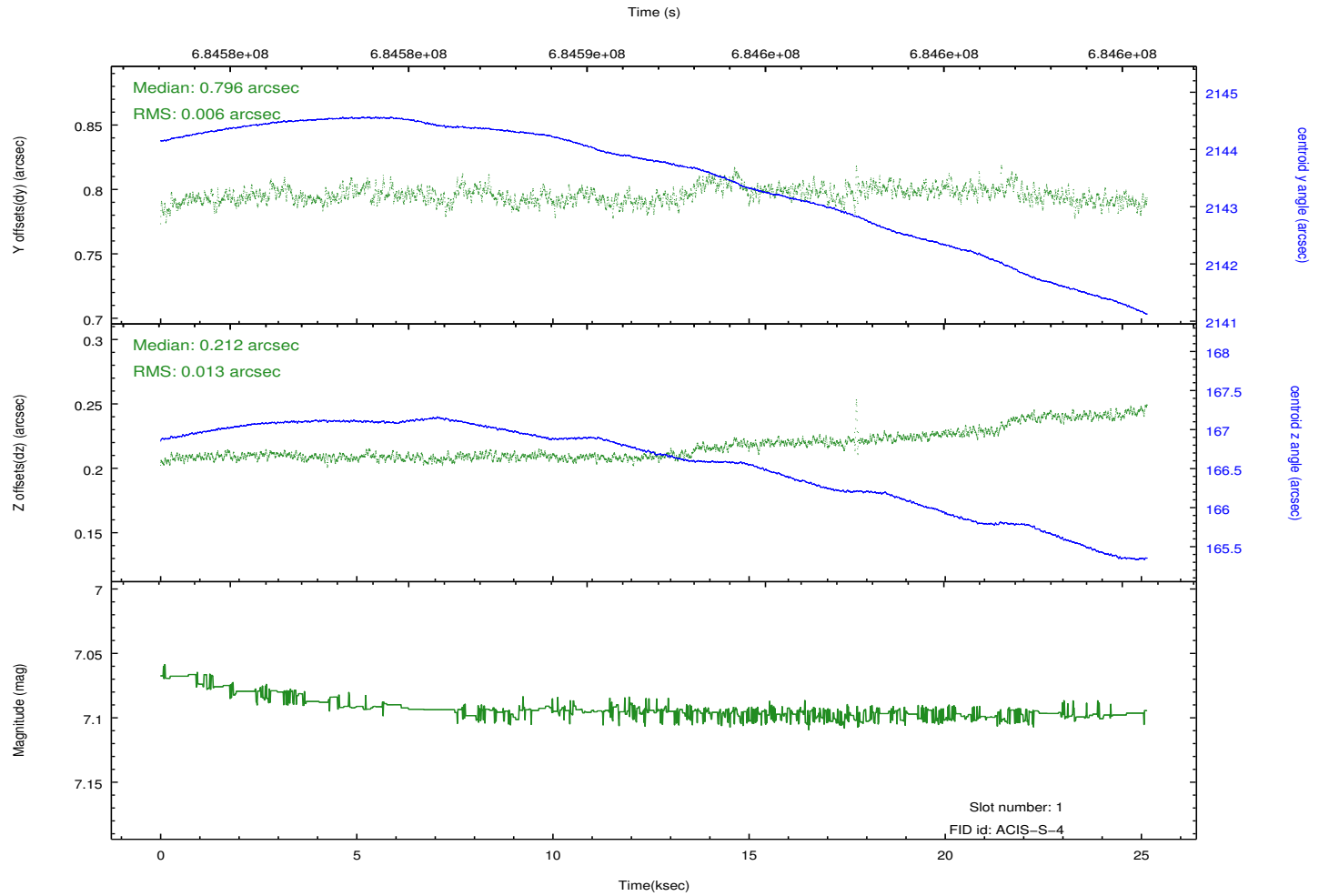
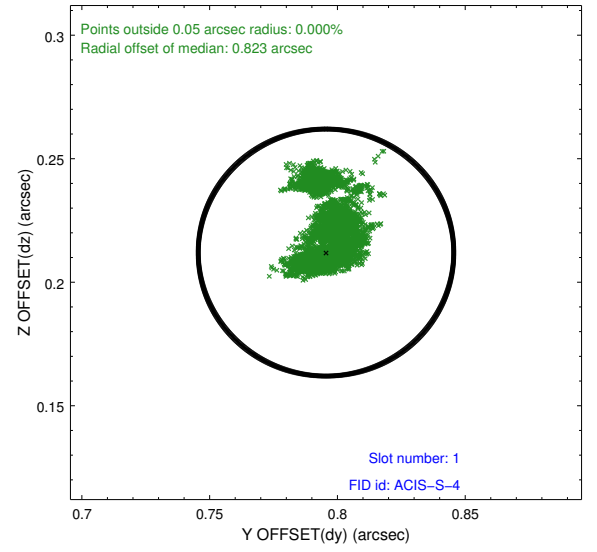
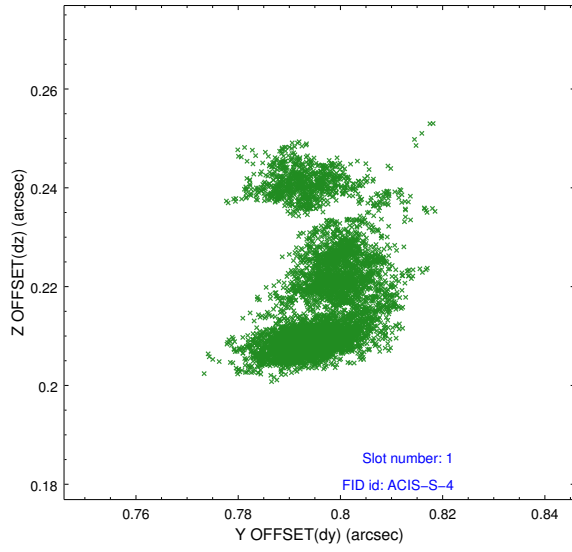


2.5 FID Slots

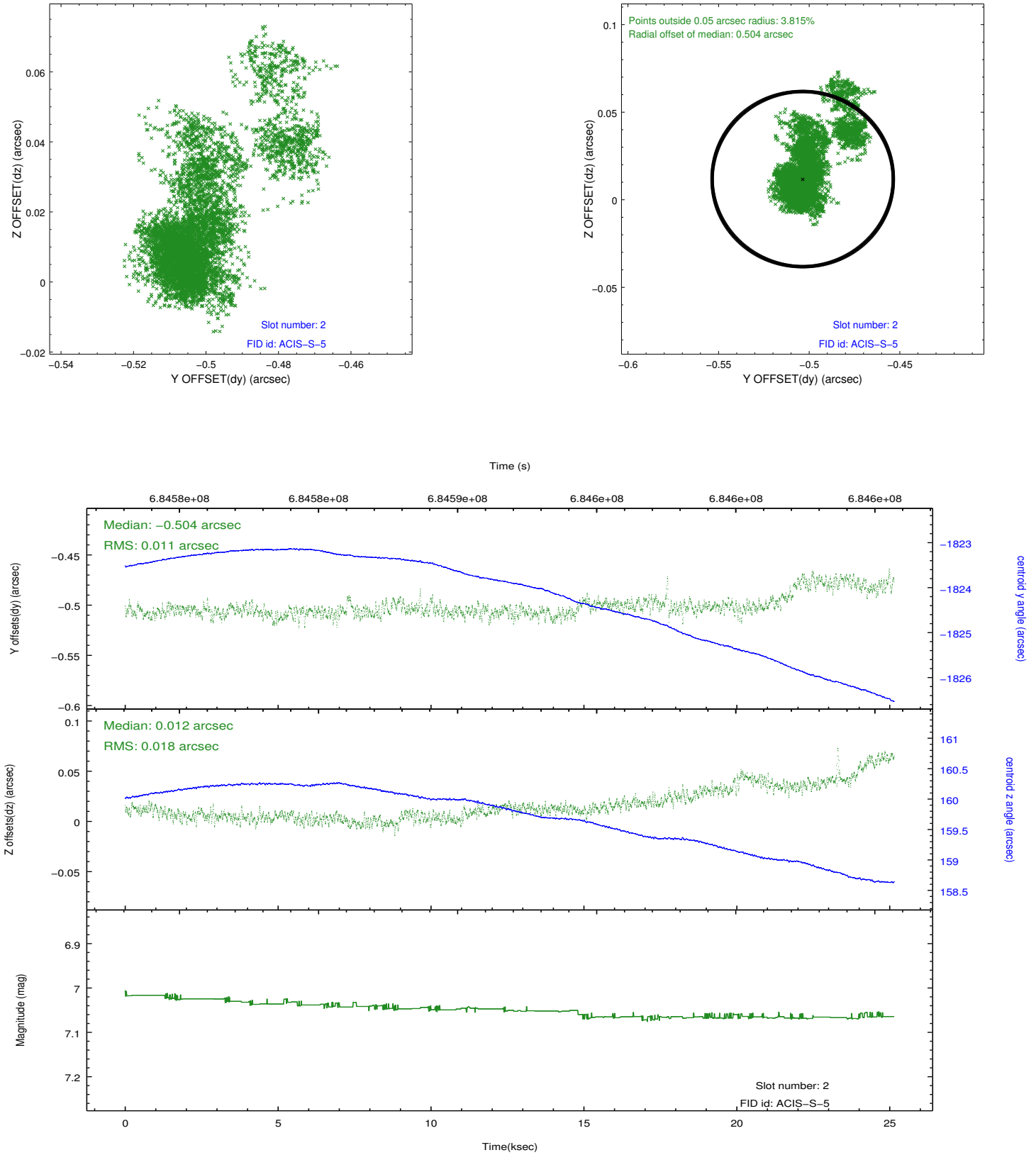
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.057300192833

A.2 Comments