

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17727 - L2 Version 1
Chandra X-Ray Center

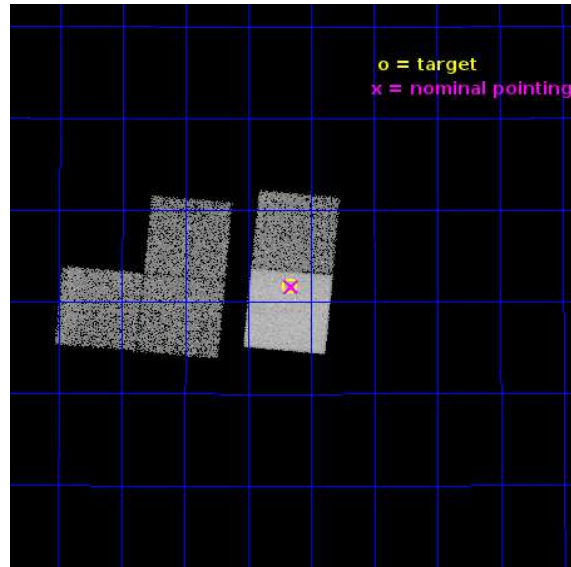
L2 Processing Date : Nov 27 2015

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1 Front

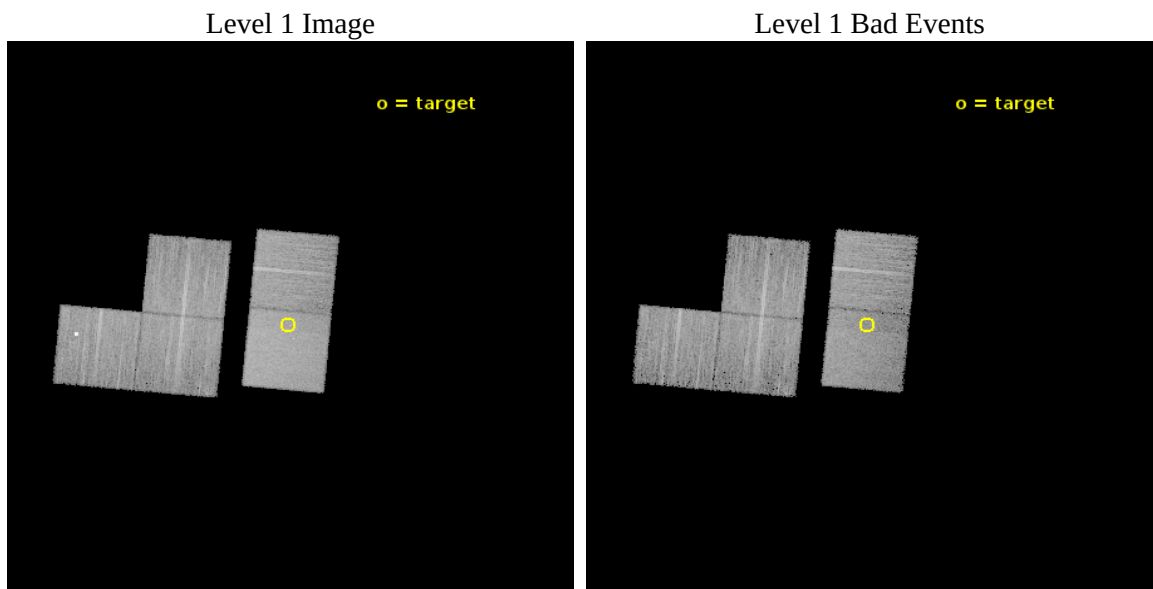
seq_num	201038	Sequence number
obs_id	17727	Observation id
title	The rotation/activity relation of M dwarfs	Proposal title
observer	Dr Beate Stelzer	Principal investigator
object	202059210	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	97.291667	Observer's specified target RA [deg]
dec_targ	28.361667	Observer's specified target Dec [deg]
ra_nom	97.289195118056	Nominal RA [deg]
dec_nom	28.361364376242	Nominal Dec [deg]
roll_nom	95.282586644214	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14108.100108624	Sum of GTIs [s]
livetime	13923.767394472	Livetime [s]
ontime1	14108.100108624	Sum of GTIs [s]
ontime2	14108.100108624	Sum of GTIs [s]
ontime3	14104.95904839	Sum of GTIs [s]
ontime6	14108.100108624	Sum of GTIs [s]
ontime7	14108.100108624	Sum of GTIs [s]
l2events	76331	Number of level 2 events



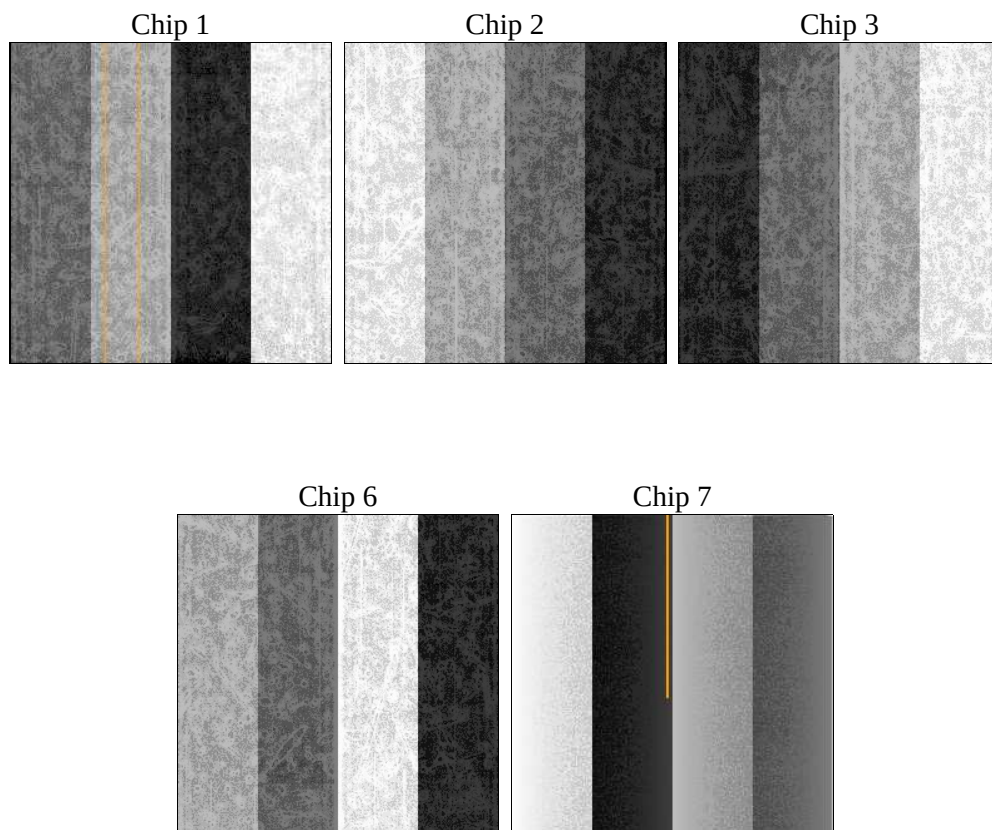
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	14108.100108624	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime1	14108.100108624	Sum of GTIs [s]
date	2015-11-28T04:15:38	Date and time of file creation	ontime2	14108.100108624	Sum of GTIs [s]
revision	1	Processing version of data	ontime3	14104.95904839	Sum of GTIs [s]
			ontime6	14108.100108624	Sum of GTIs [s]
			ontime7	14108.100108624	Sum of GTIs [s]
			l1events	429620	Number of level 1 events

2.1.4 Events

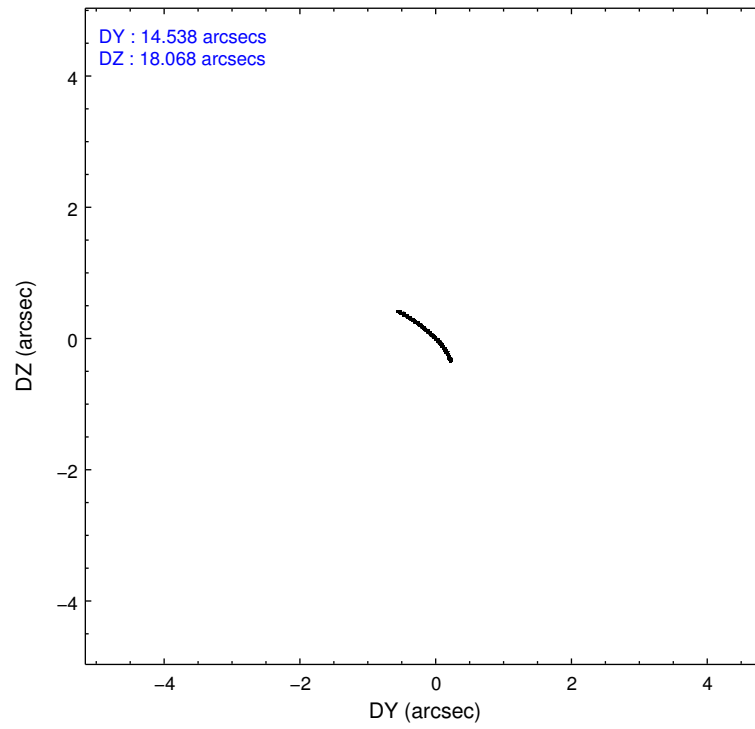
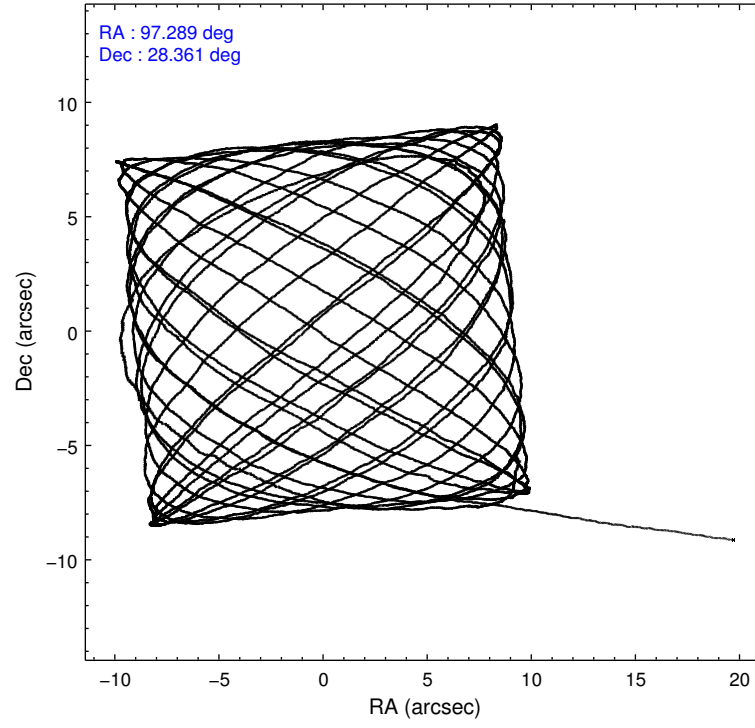
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	80405	81046	77383	82731	108055
rejected events	66962	72307	69064	73303	61766
rejected %	83%	89%	89%	88%	57%

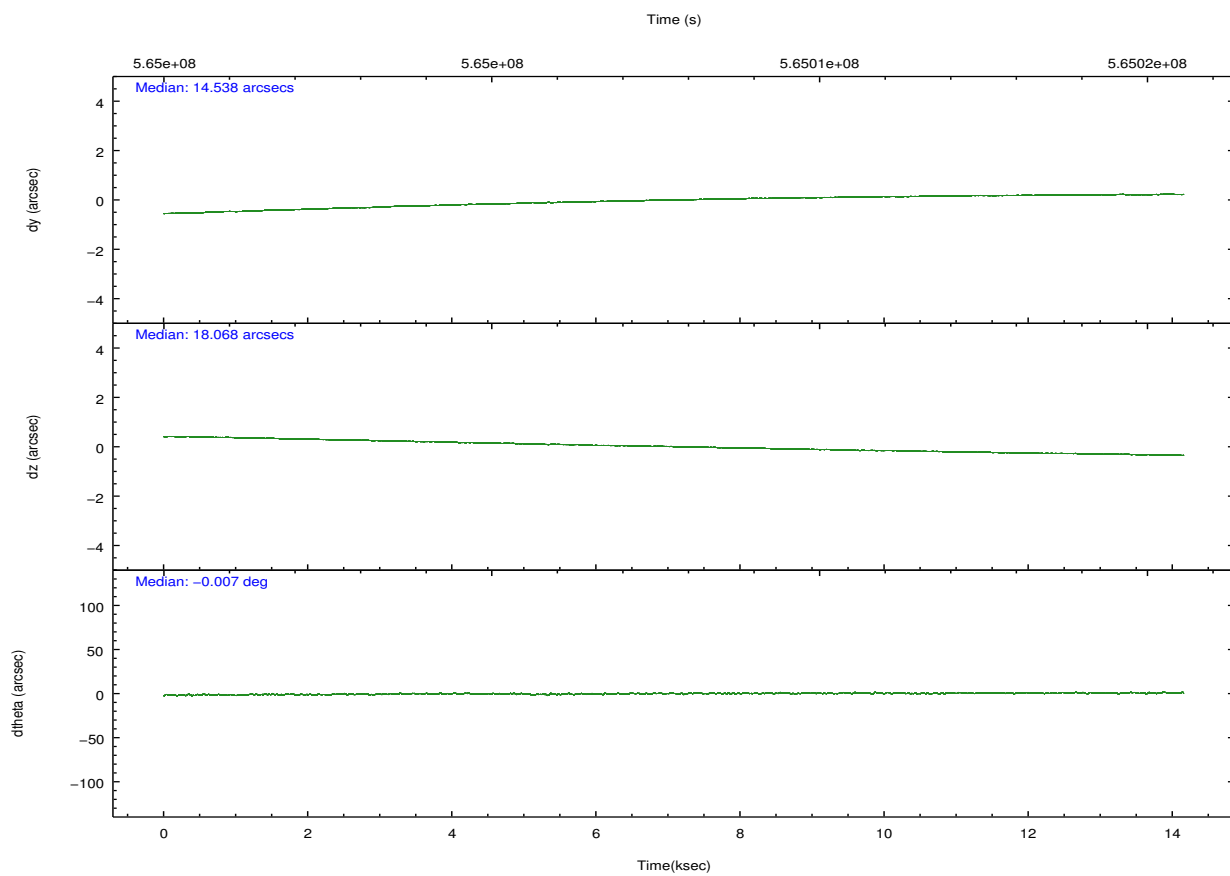
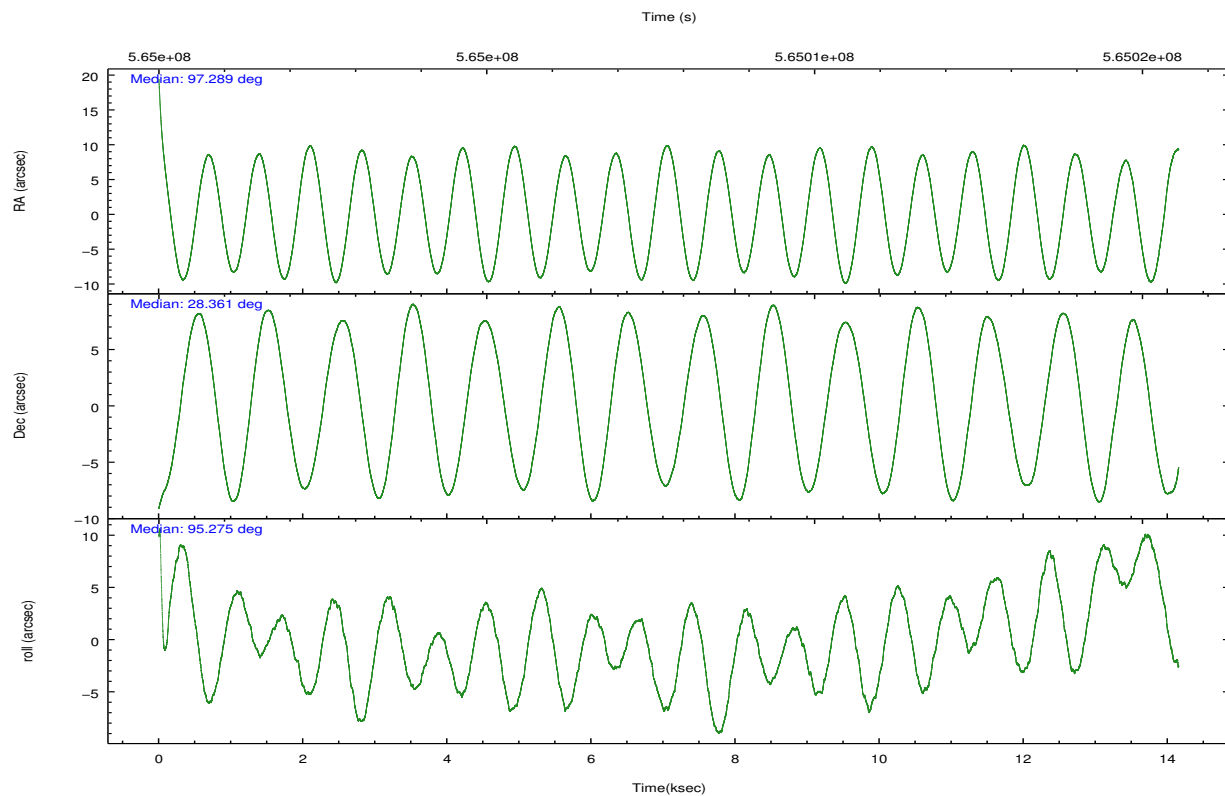
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	6809	3035	2868	3141	3923
	8%	3%	3%	3%	3%
grade 1 events	44	36	37	36	132
	0%	0%	0%	0%	0%
grade 2 events	2554	2120	1810	2145	9774
	3%	2%	2%	2%	9%
grade 3 events	972	913	920	960	3713
	1%	1%	1%	1%	3%
grade 4 events	928	925	923	942	3609
	1%	1%	1%	1%	3%
grade 5 events	3720	3379	3937	4069	10782
	4%	4%	5%	4%	9%
grade 6 events	2182	1746	1798	2244	25282
	2%	2%	2%	2%	23%
grade 7 events	63196	68892	65090	69194	50840
	78%	85%	84%	83%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-12367	ACIS-12367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	O1	N
Observation mode	POINTING	POINTING	CCD I1 on	O2	Y
[deg] Pointing RA	97.307554	97.28919511805589	CCD I2 on	O3	Y
[deg] Pointing Dec	28.339204	28.36136437624191	CCD I3 on	O4	Y
[deg] Pointing Roll	95.117211	95.28258664421421	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	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	565000863.184000	564999425.74511	CCD S5 on	N	N
Observation start date	2015-11-27T08:39:55	2015-11-27T08:17:05	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	565014863.184000	565015088.2585	On-chip summing requested	N	N
Observation end date	2015-11-27T12:33:15	2015-11-27T12:38:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



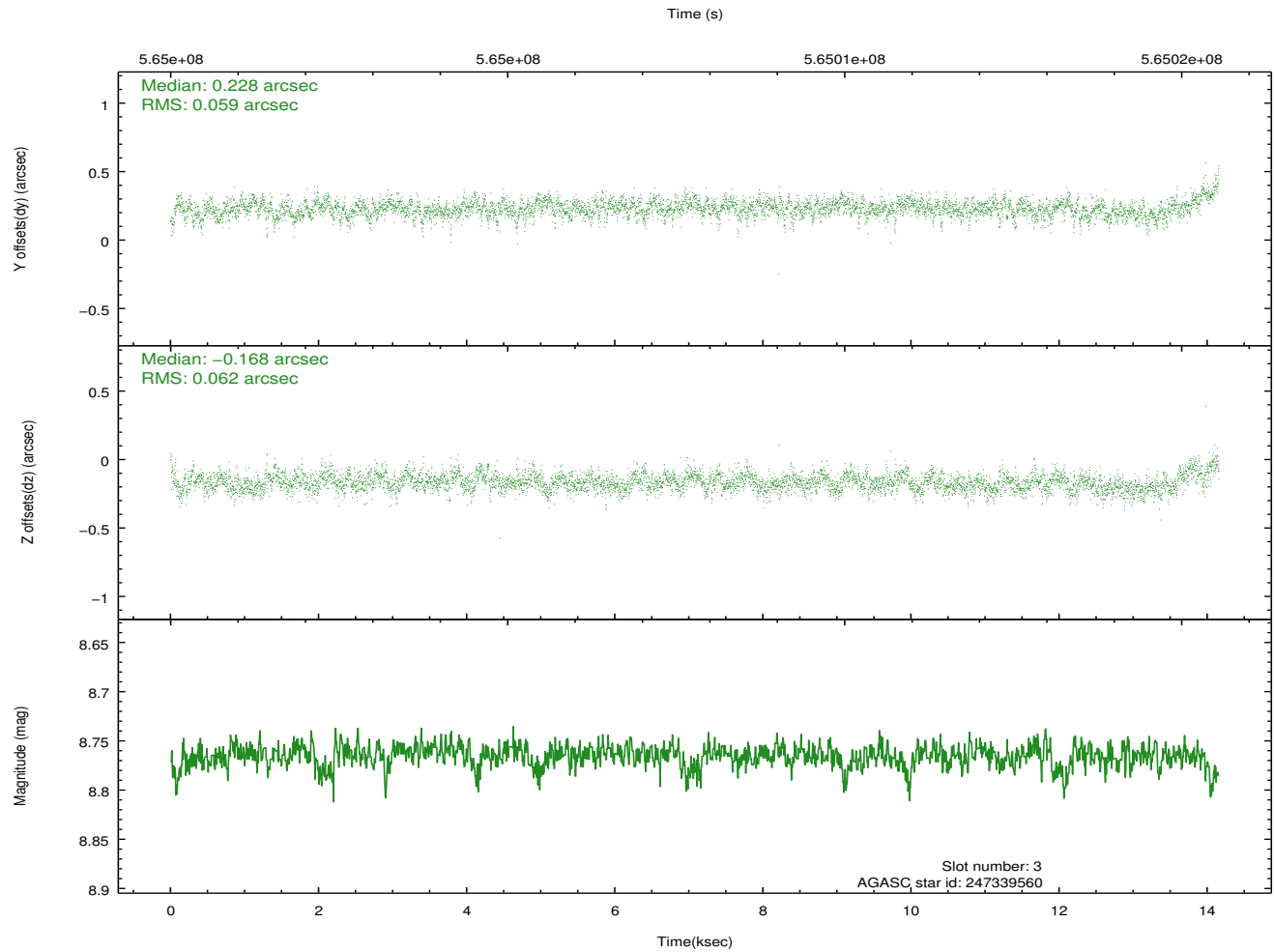
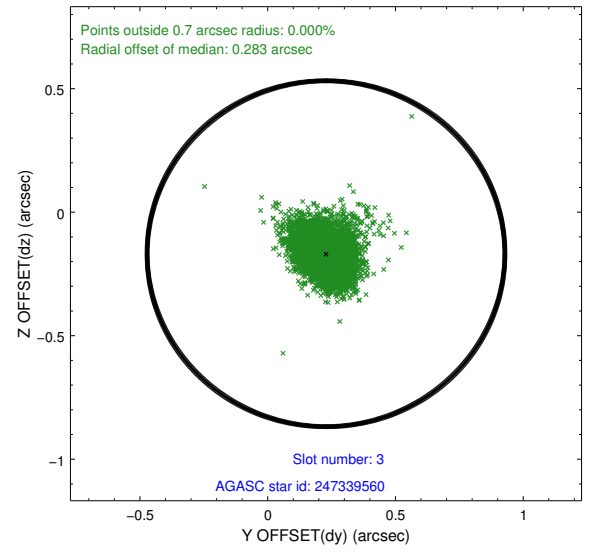
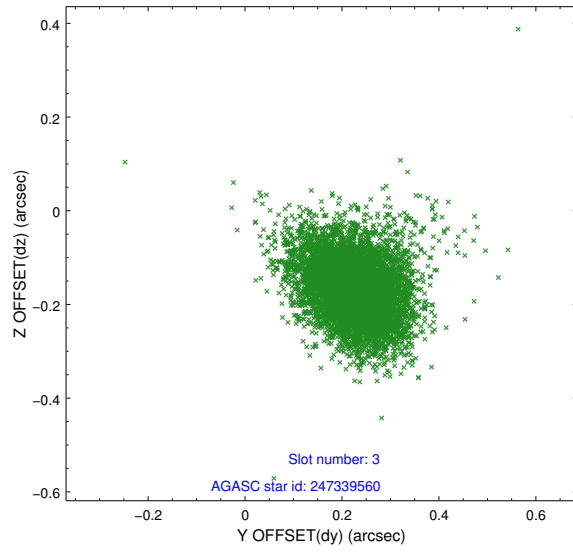


Slot Statistics

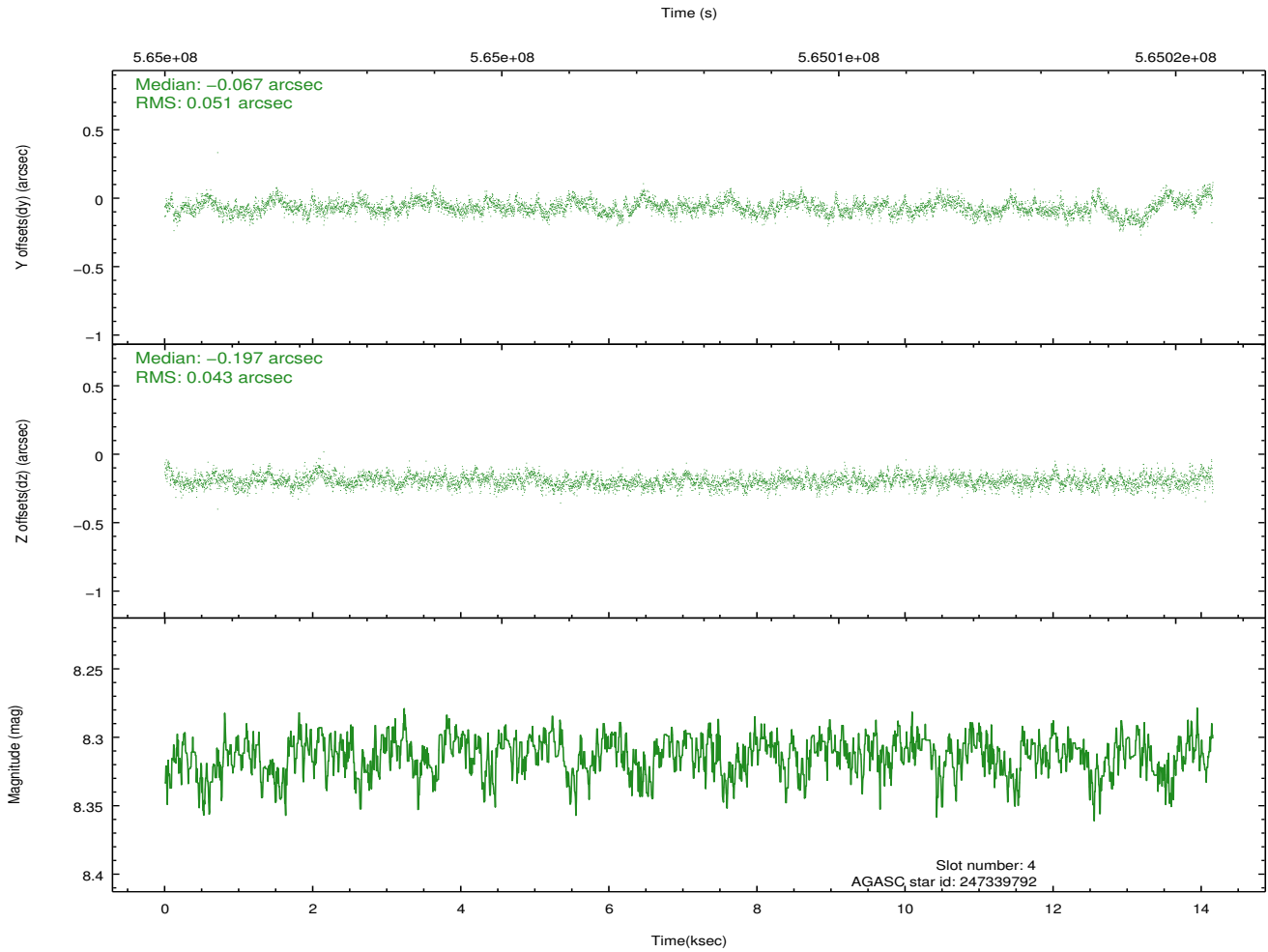
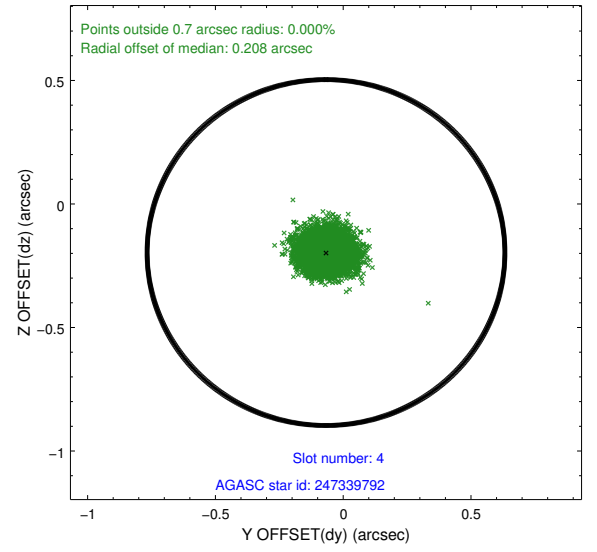
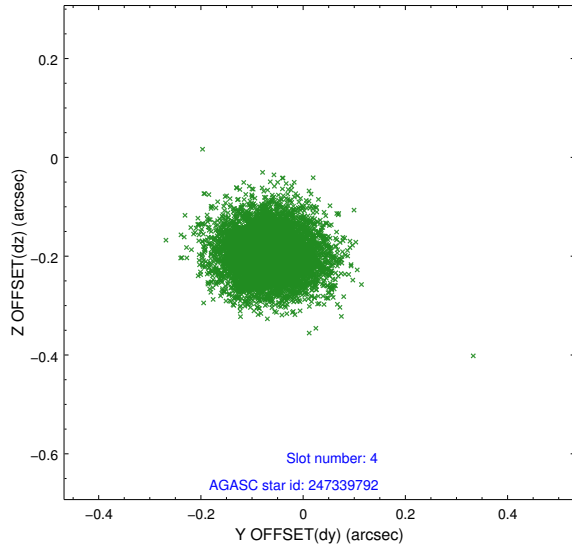
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.22	3453	0.147	-0.054	0.011	0.016	0.000000	0.000000	928.78	-1735.16
1	FID		ACIS-S-5	7.24	3451	-0.286	0.087	0.012	0.019	0.000000	0.000000	-1820.50	162.14
2	FID		ACIS-S-6	7.35	3453	0.117	-0.023	0.010	0.016	0.000000	0.000000	393.90	806.41
3	GUIDE	used	247339560	8.77	6900	0.228	-0.168	0.086	0.152	96.697659	27.689844	-2150.17	2144.43
4	GUIDE	used	247339792	8.31	6904	-0.067	-0.197	0.071	0.117	96.803121	28.118478	-645.59	1666.03
5	GUIDE	used	247858376	7.25	6906	-0.001	0.142	0.115	0.176	97.591705	28.212110	-534.74	-856.63
6	GUIDE	used	247865984	7.98	6906	-0.048	-0.032	0.089	0.145	97.414535	28.780676	1553.25	-477.76
7	GUIDE	used	247866584	9.09	6900	-0.118	0.246	0.116	0.186	97.955355	28.726222	1211.53	-2161.19

2.4 Star Slots

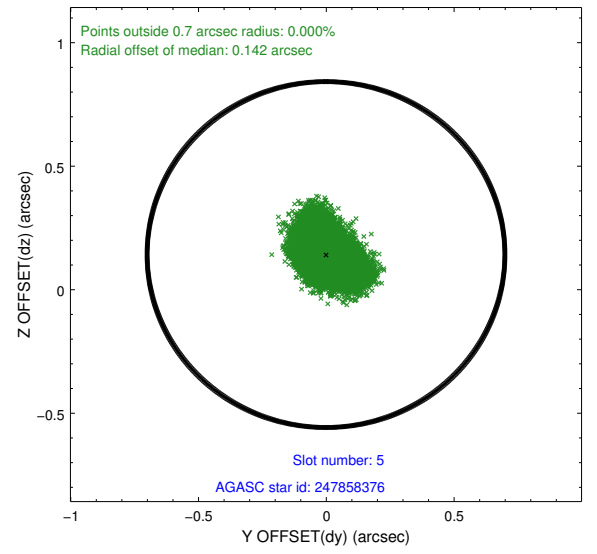
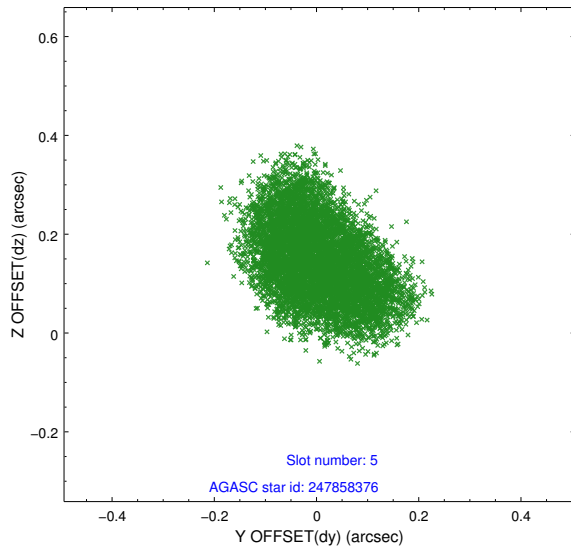
2.4.1 Slot 3



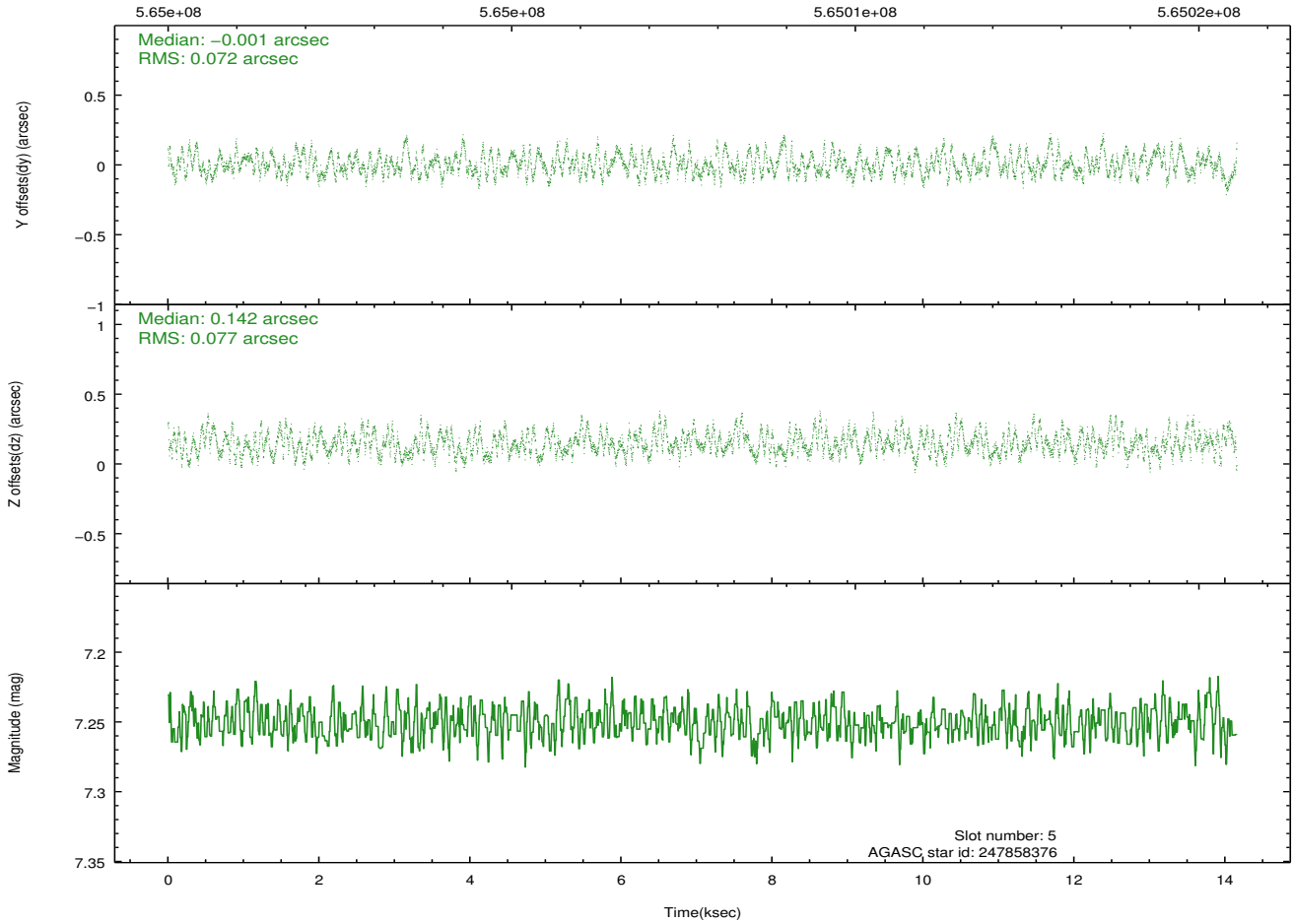
2.4.2 Slot 4



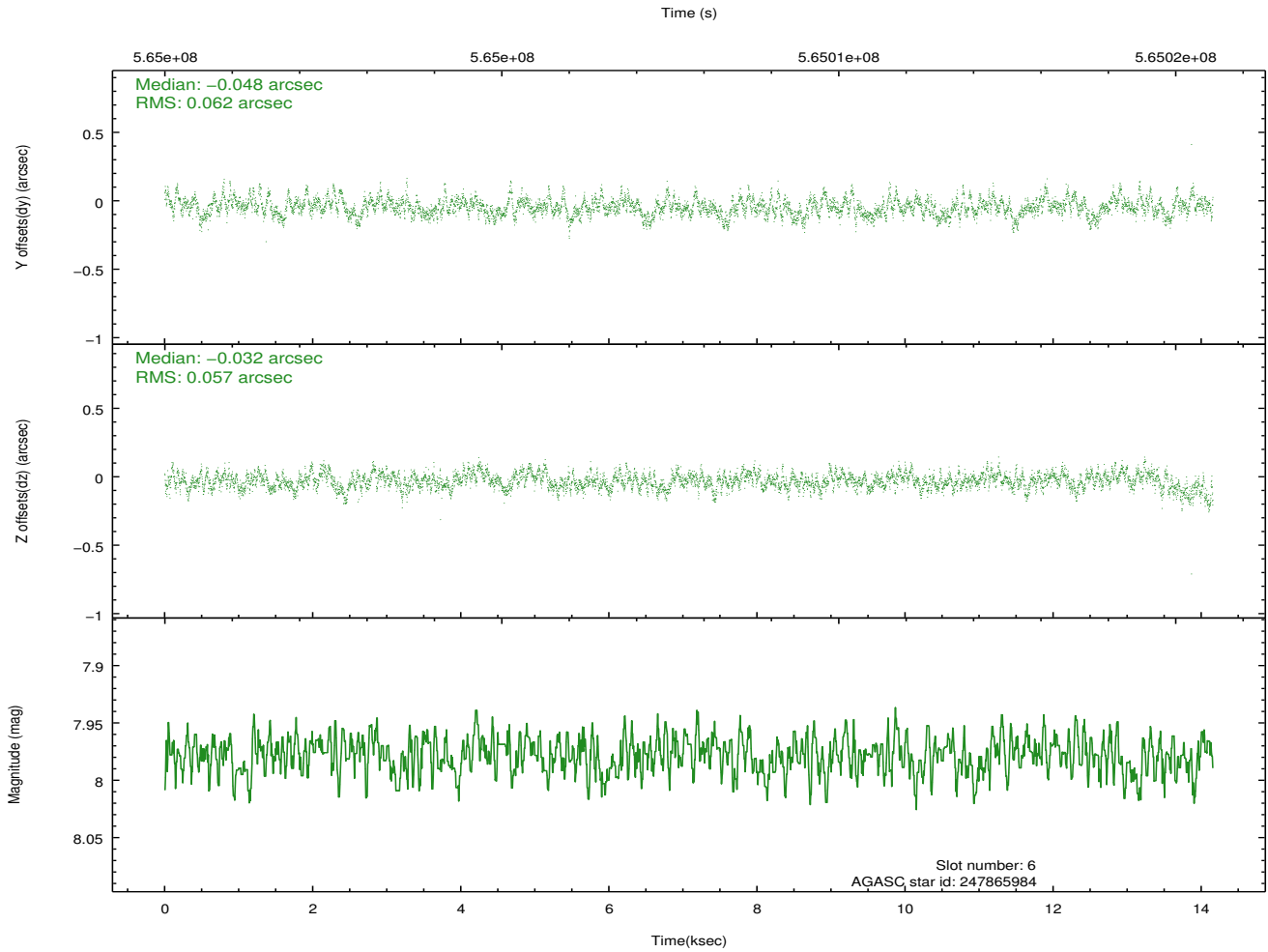
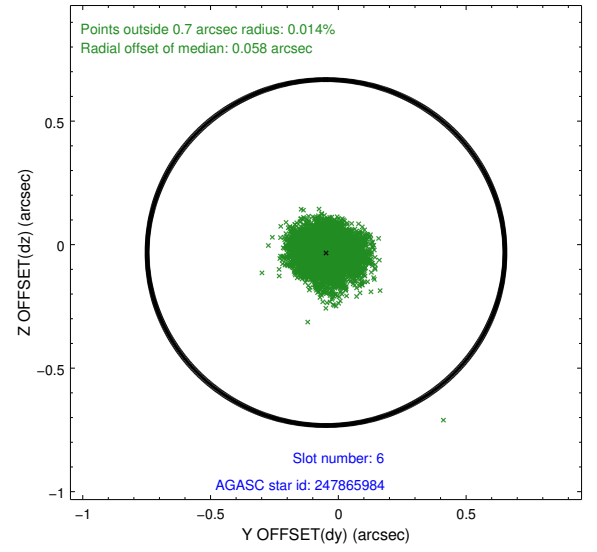
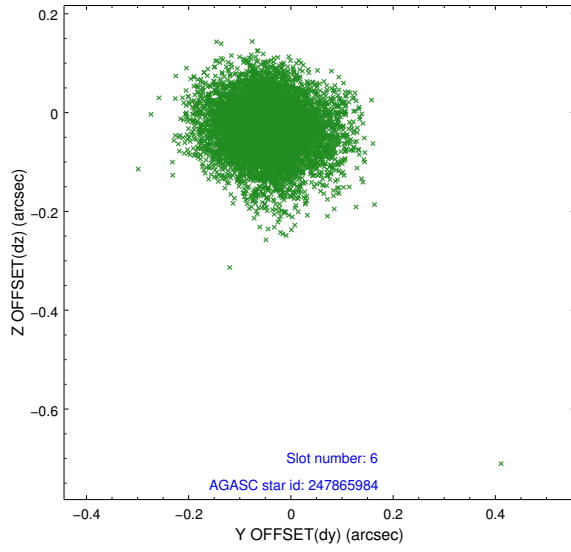
2.4.3 Slot 5



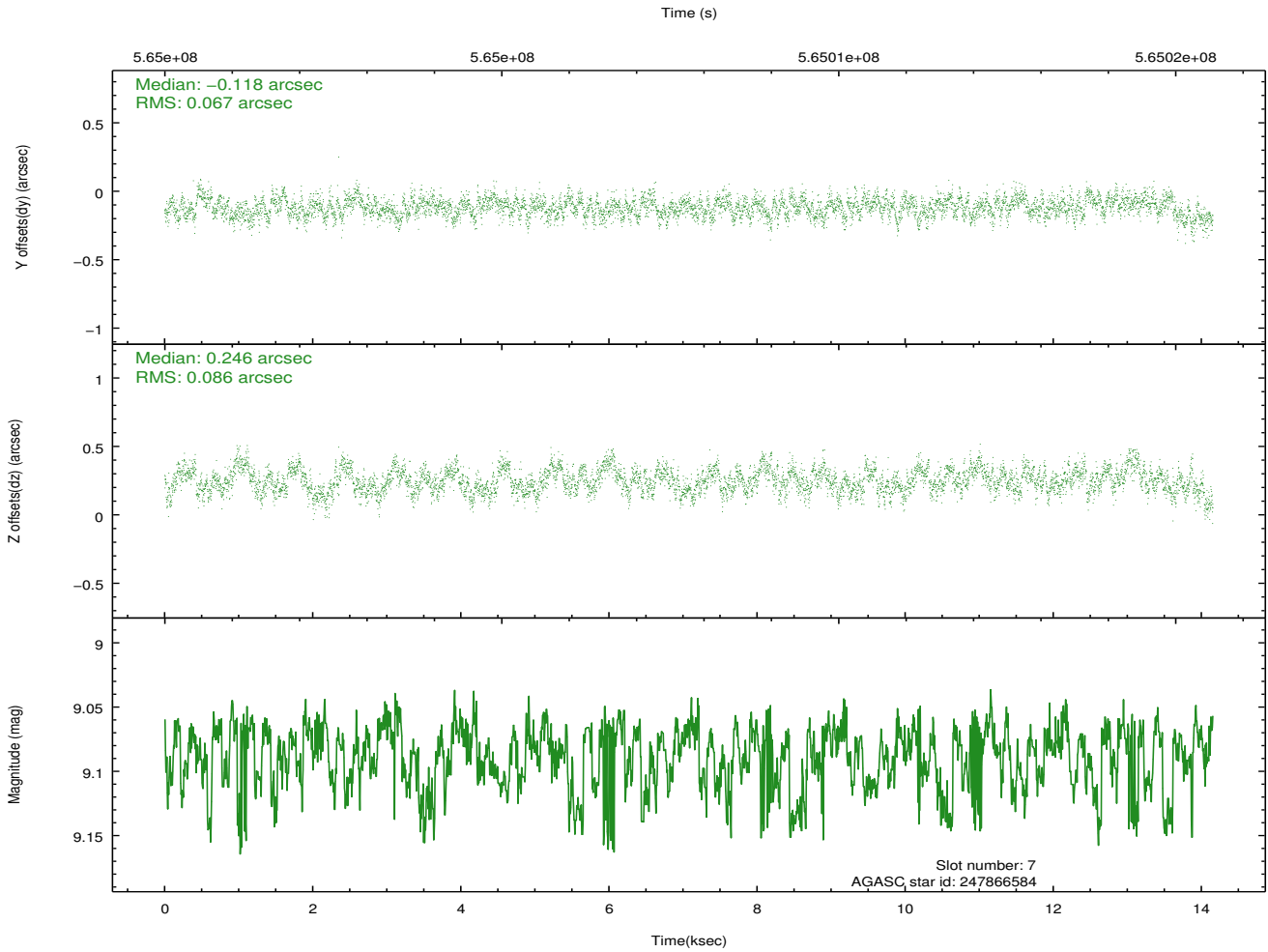
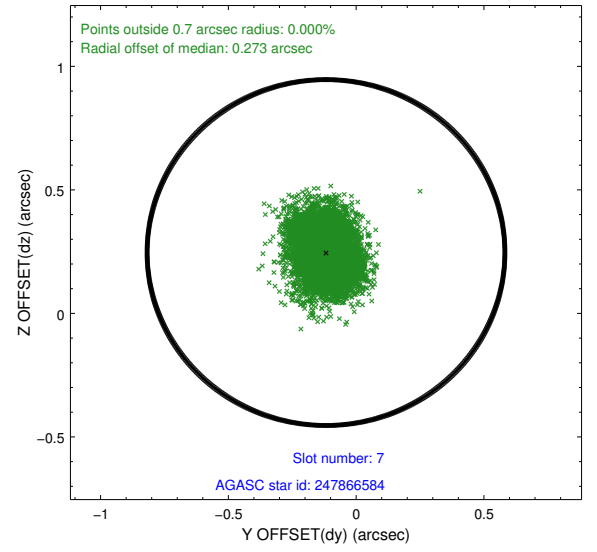
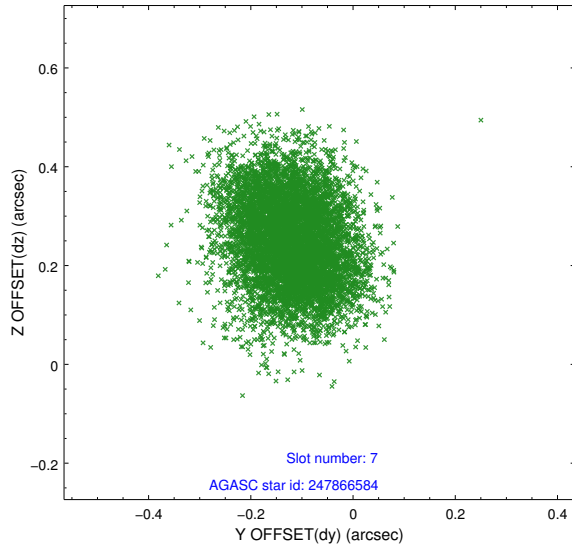
Time (s)



2.4.4 Slot 6

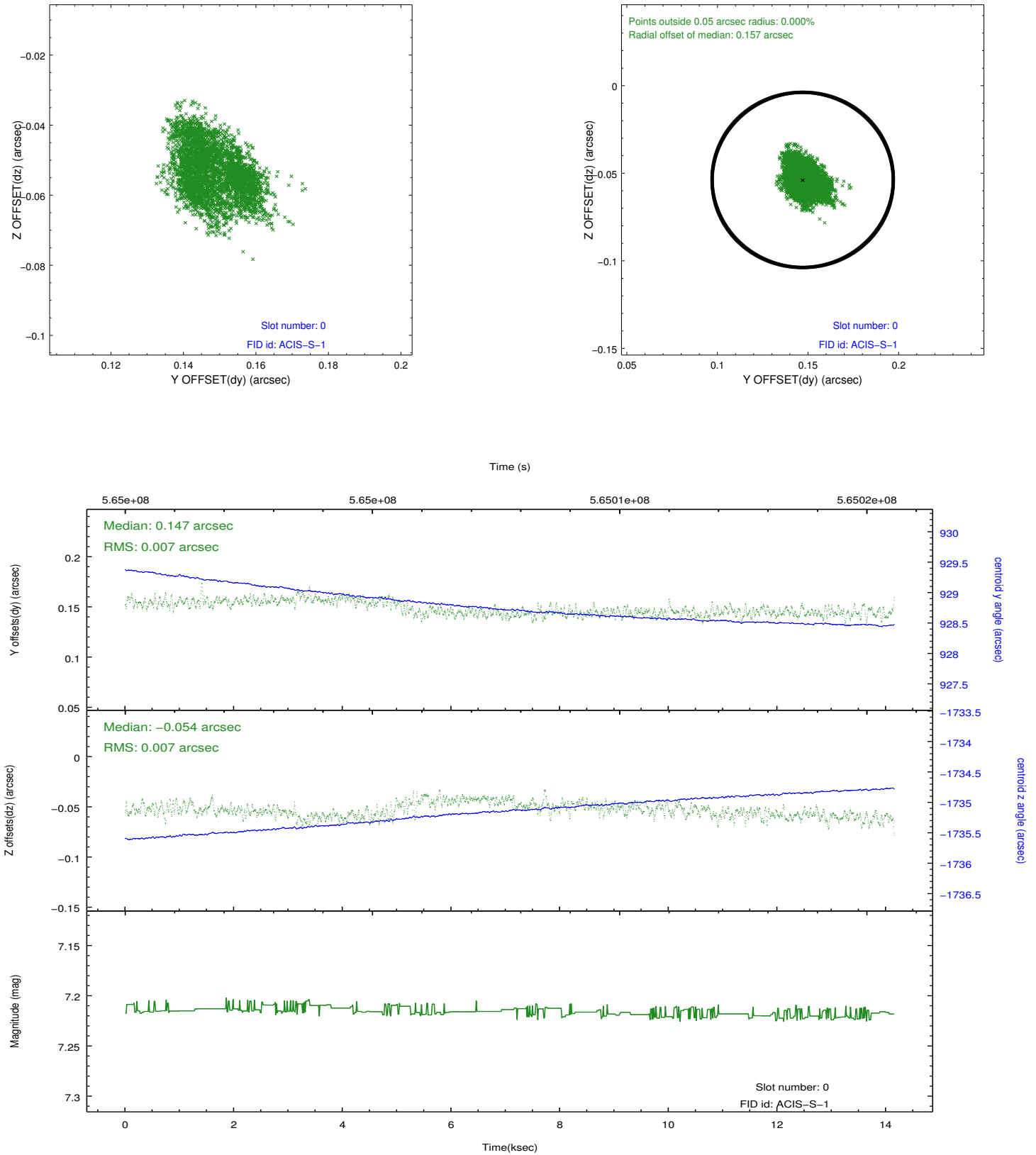


2.4.5 Slot 7

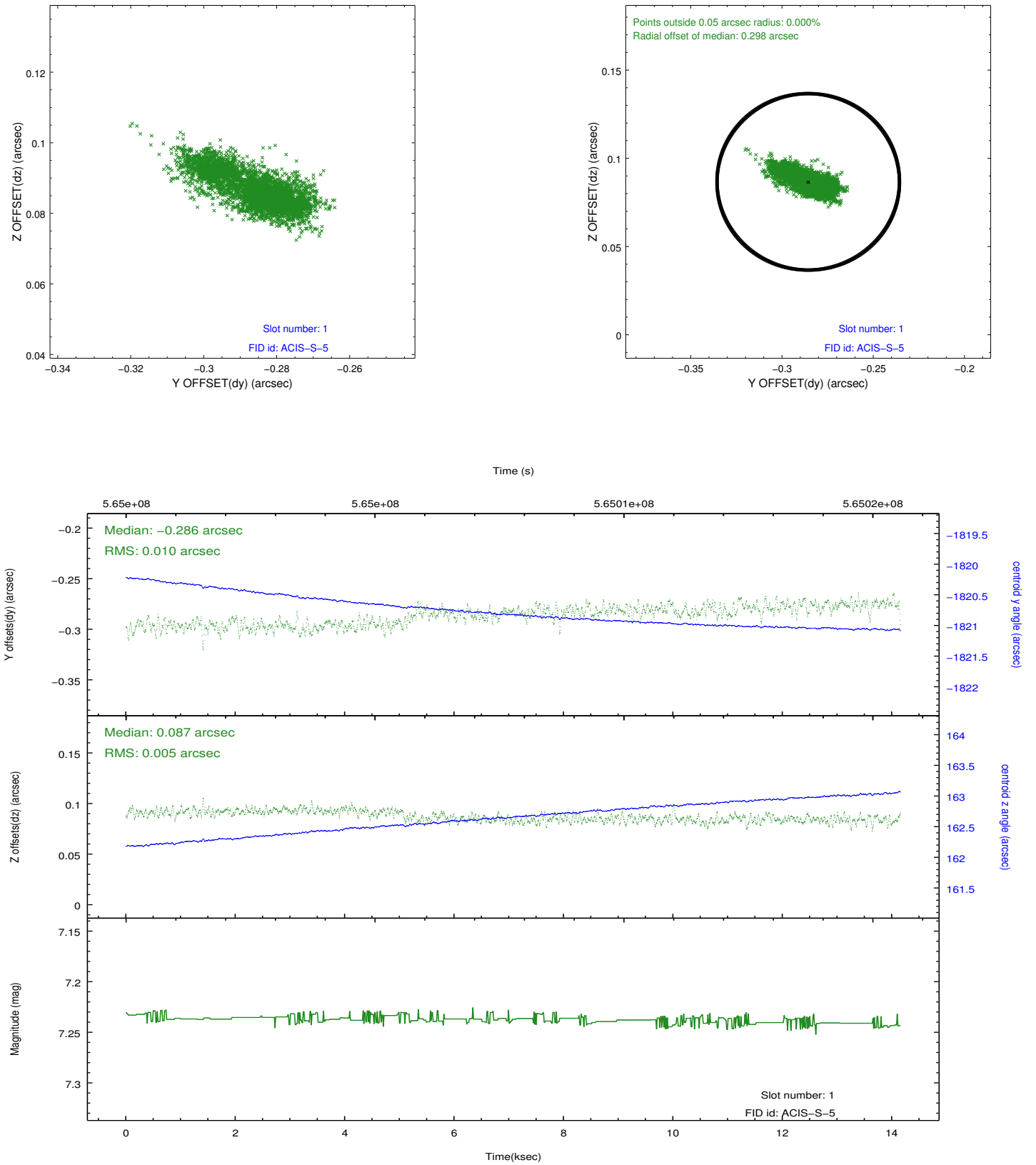


2.5 FID Slots

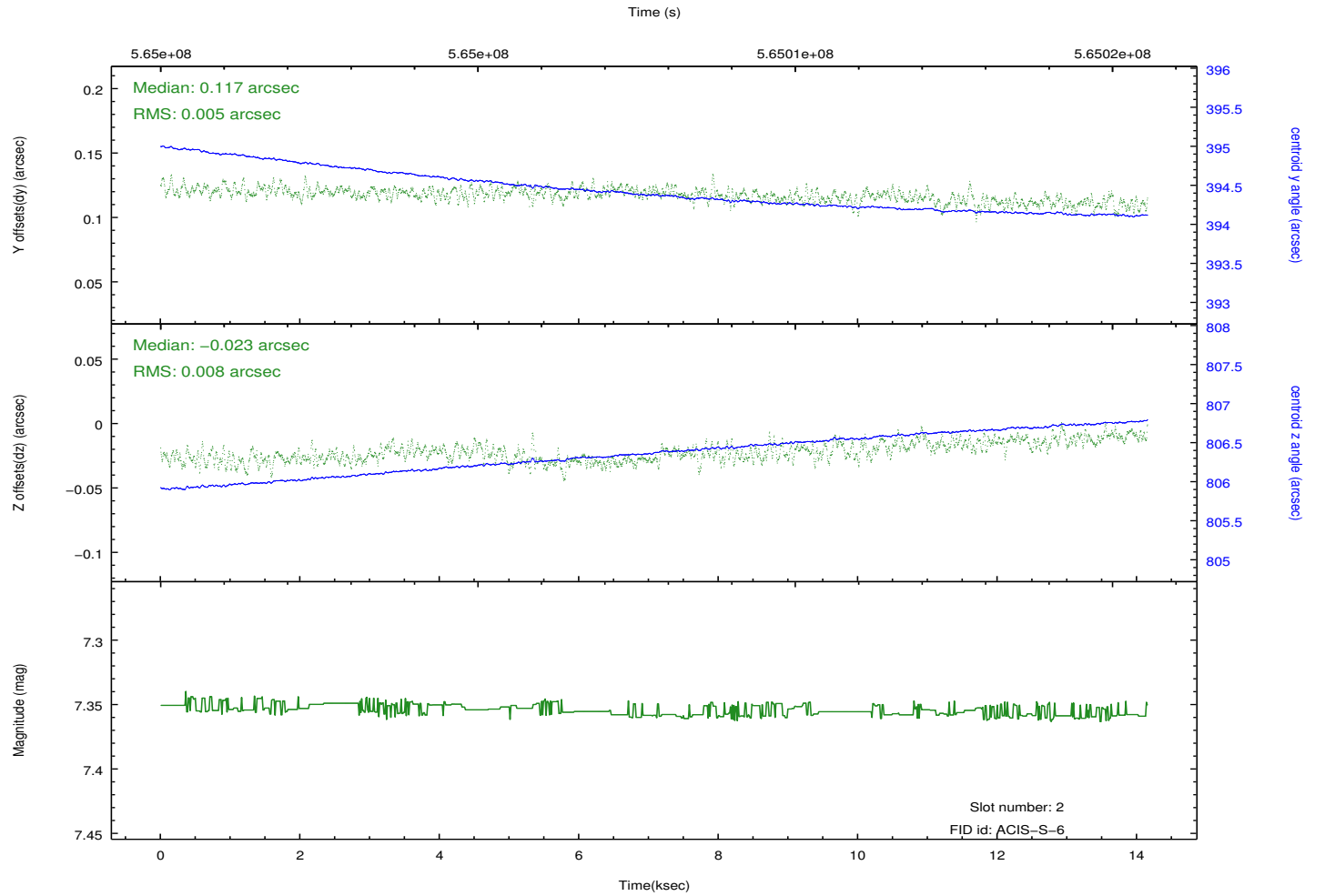
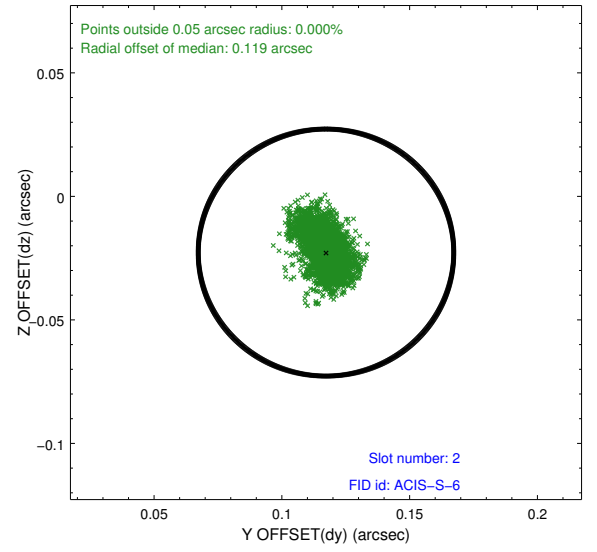
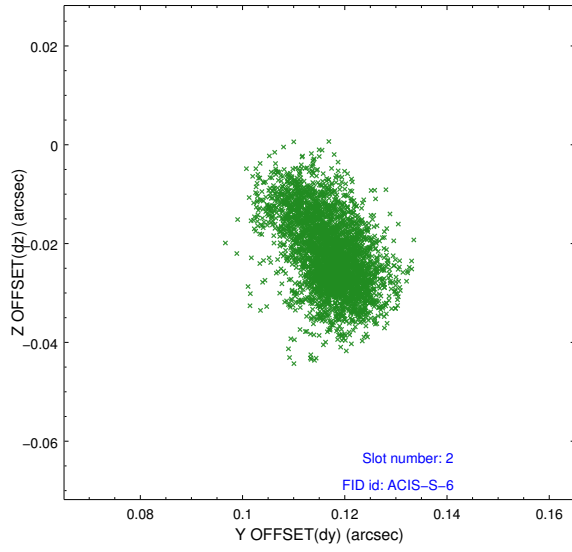
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2015.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.108100108624

A.2 Comments