

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 16820 - L2 Version 1
Chandra X-Ray Center

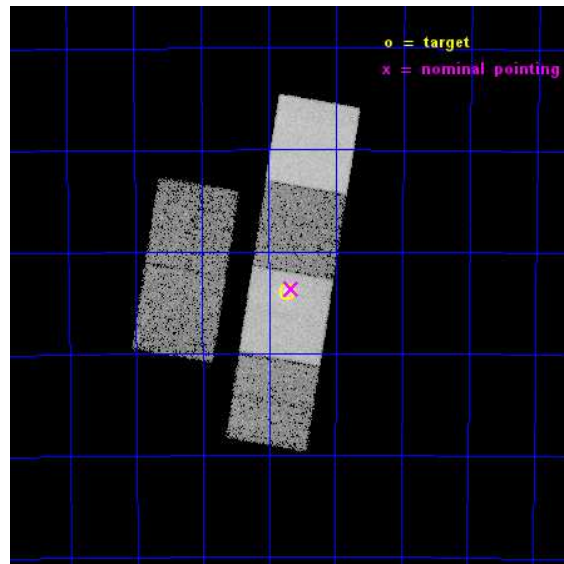
L2 Processing Date : Dec 25 2014

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

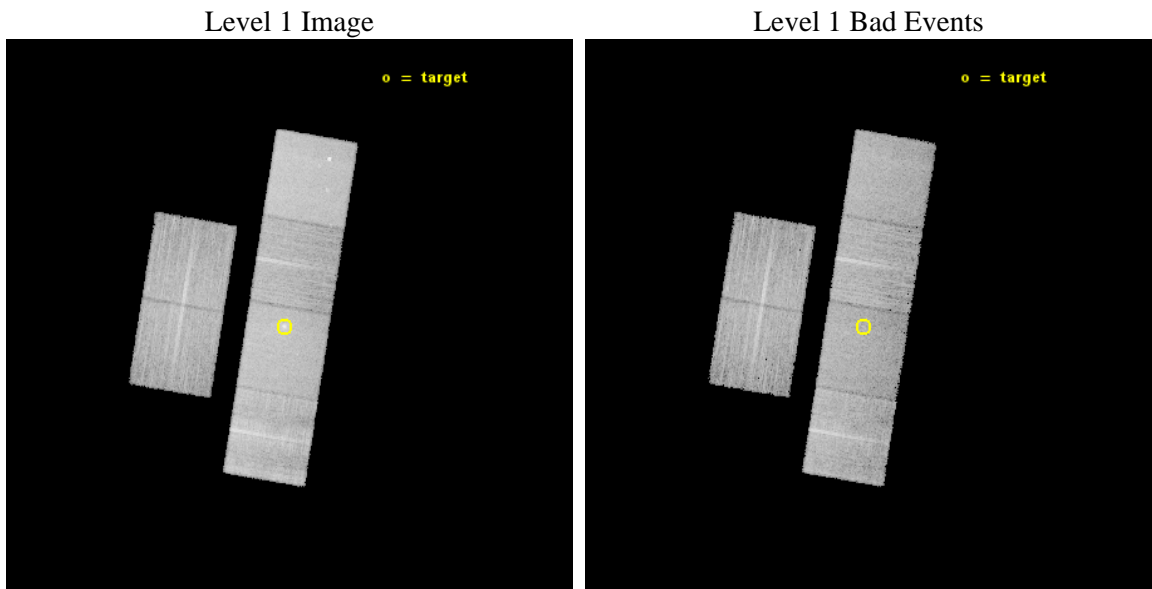
seq_num	502338	Sequence number
obs_id	16820	Observation id
title	CHARACTERIZING A NEW RADIO FAINT SNR: G309.4-0.1	Proposal title
observer	Mark Reynolds	Principal investigator
object	G309.4-0.1	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.933667	Observer's specified target RA [deg]
dec_targ	-62.232361	Observer's specified target Dec [deg]
ra_nom	206.91556761134	Nominal RA [deg]
dec_nom	-62.22778069101	Nominal Dec [deg]
roll_nom	99.380310576637	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19964.799925685	Sum of GTIs [s]
livetime	19711.993607667	Livetime [s]
ontime2	19964.799925685	Sum of GTIs [s]
ontime3	19964.799925685	Sum of GTIs [s]
ontime5	19964.799925685	Sum of GTIs [s]
ontime6	19961.558935344	Sum of GTIs [s]
ontime7	19964.799925685	Sum of GTIs [s]
ontime8	19964.799925685	Sum of GTIs [s]
l2events	167222	Number of level 2 events



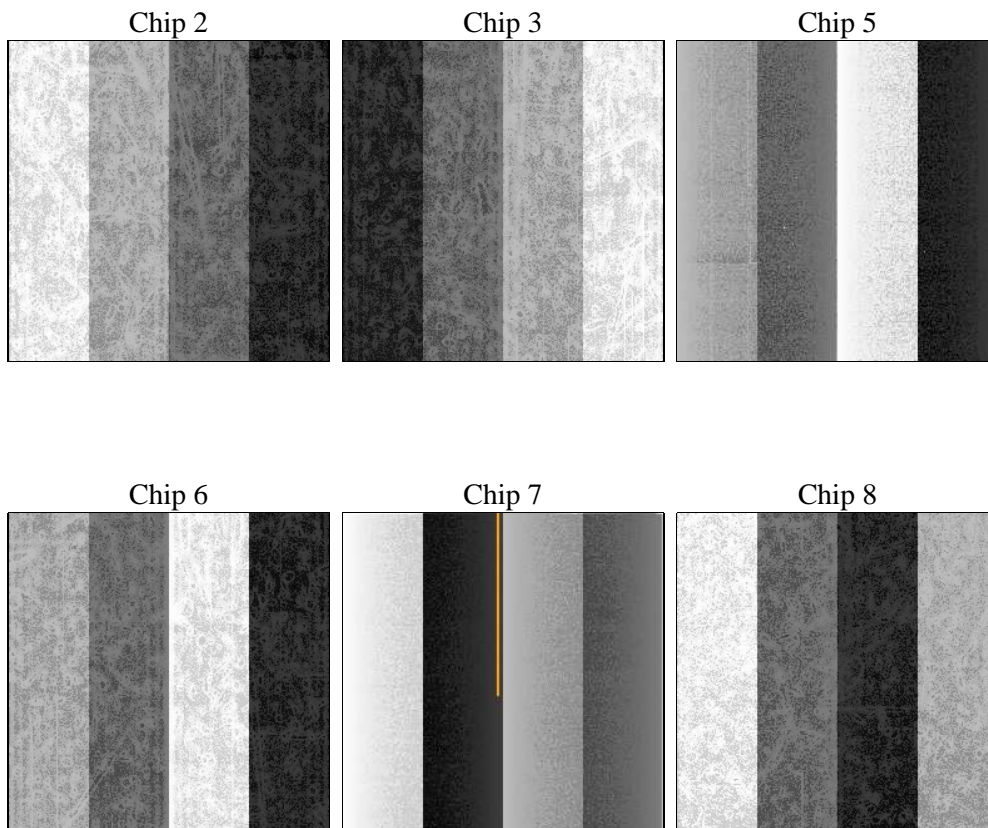
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	19964.799925685	Sum of GTIs [s]
caldbver	4.6.5	 	ontime2	19964.799925685	Sum of GTIs [s]
date	2014-12-26T04:03:09	Date and time of file creation	ontime3	19964.799925685	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	19964.799925685	Sum of GTIs [s]
			ontime6	19961.558935344	Sum of GTIs [s]
			ontime7	19964.799925685	Sum of GTIs [s]
			ontime8	19964.799925685	Sum of GTIs [s]
			l1events	672416	Number of level 1 events

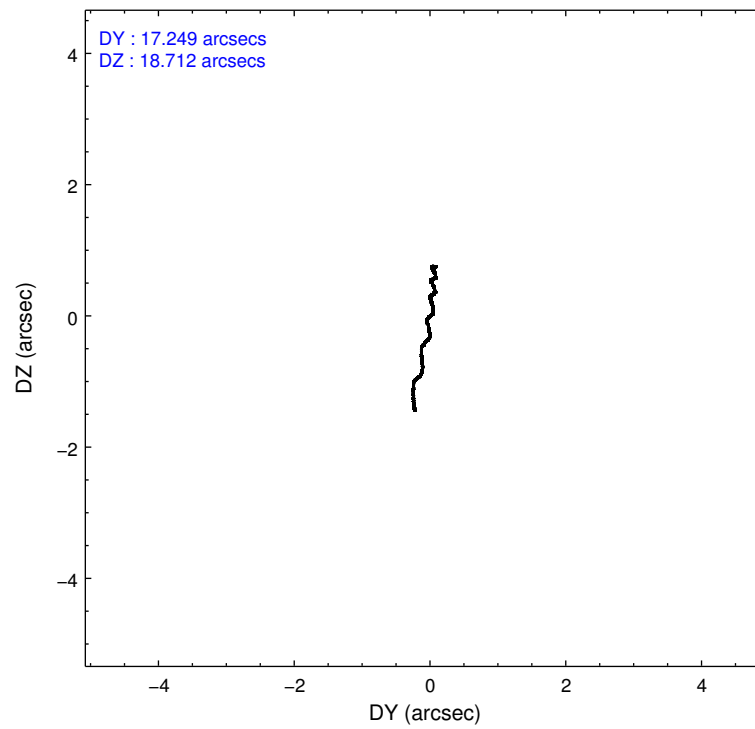
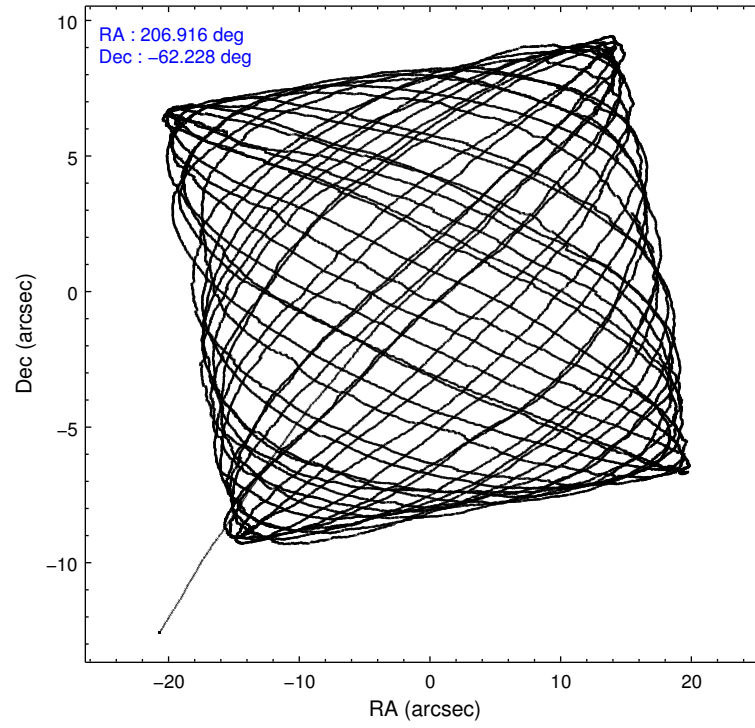
2.1.4 Events

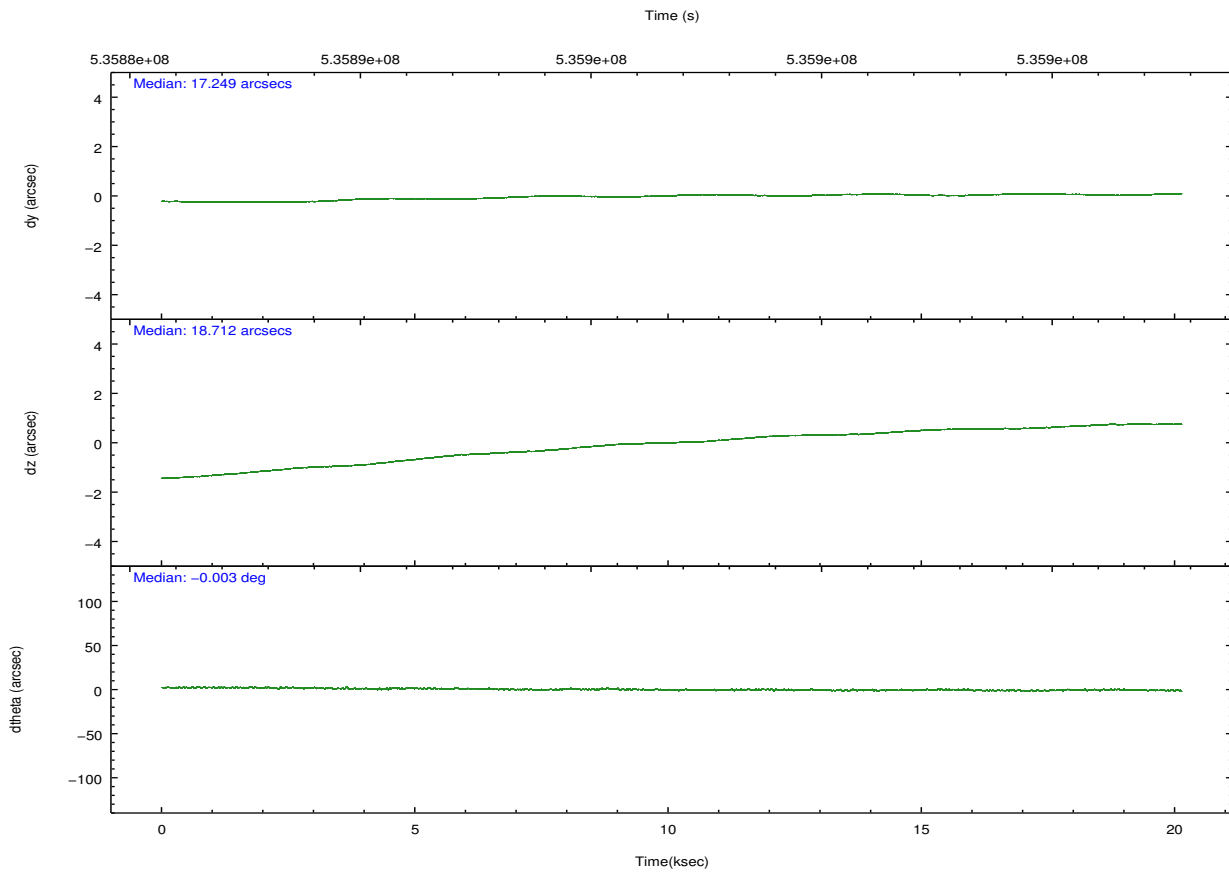
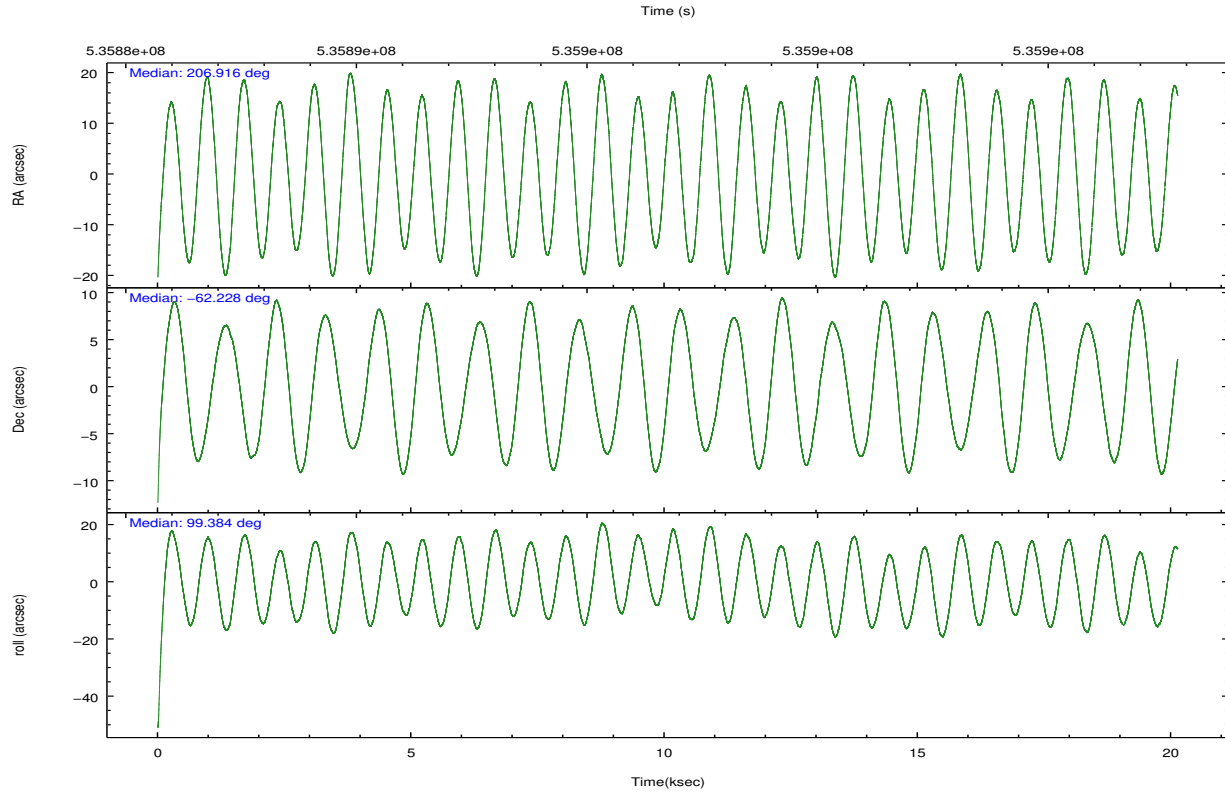
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	91055	86407	148636	93203	127995	125120	grade 0 events	4404	4155	5384	4450	5836	11693
rejected events	79691	75569	77457	81142	69255	87671		4%	4%	3%	4%	4%	9%
rejected %	87%	87%	52%	87%	54%	70%	grade 1 events	46	52	305	40	147	105
								0%	0%	0%	0%	0%	0%
							grade 2 events	2743	2332	22143	2663	12212	8294
								3%	2%	14%	2%	9%	6%
							grade 3 events	1081	1067	2395	1141	5023	4177
								1%	1%	1%	1%	3%	3%
							grade 4 events	1081	1129	2310	1139	4756	3902
								1%	1%	1%	1%	3%	3%
							grade 5 events	4171	4744	10531	4690	12411	6896
								4%	5%	7%	5%	9%	5%
							grade 6 events	2057	2161	38966	2671	30926	9391
								2%	2%	26%	2%	24%	7%
							grade 7 events	75472	70767	66602	76409	56684	80662
								82%	81%	44%	81%	44%	64%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	206.953527	206.915567611339	CCD I2 on	O2	Y
[deg] Pointing Dec	-62.248747	-62.22778069100976	CCD I3 on	Y	Y
[deg] Pointing Roll	99.257297	99.38031057663696	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	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)	535886828.184000	535885794.82009	CCD S5 on	N	N
Observation start date	2014-12-25T09:26:01	2014-12-25T09:09:54	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	535906828.184000	535907461.27129	On-chip summing requested	N	N
Observation end date	2014-12-25T14:59:21	2014-12-25T15:11:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





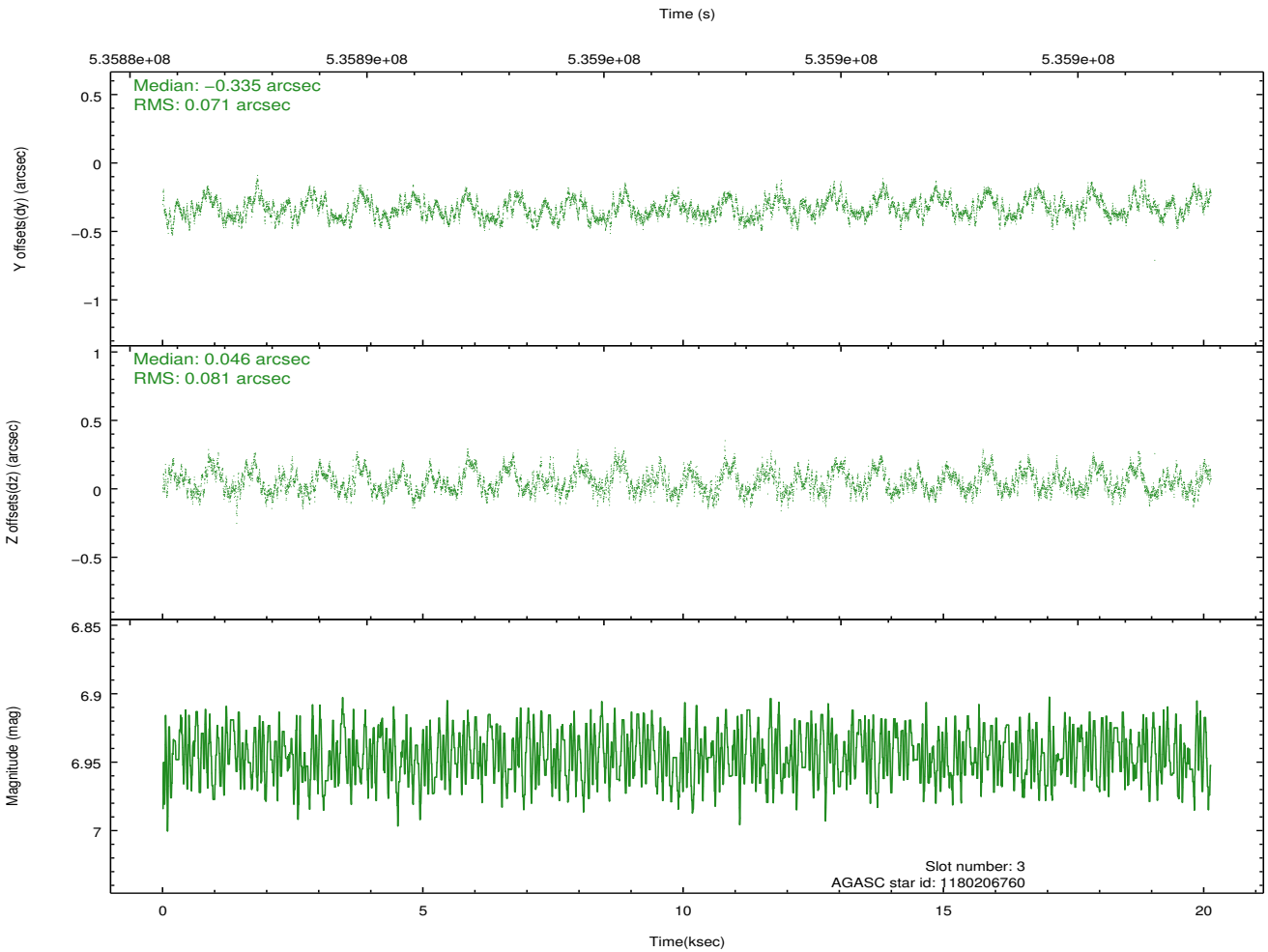
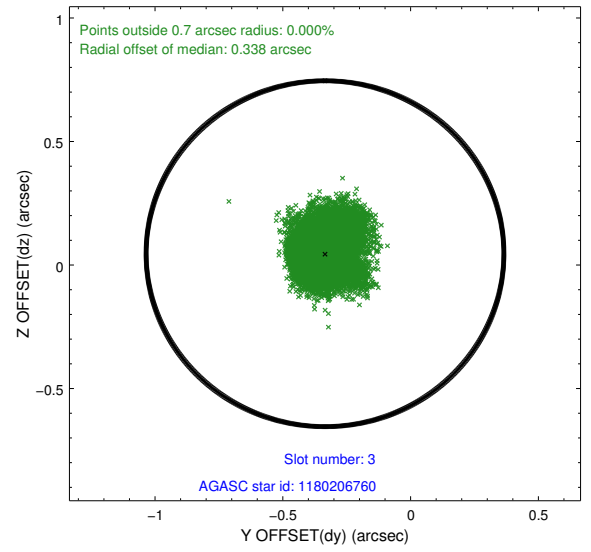
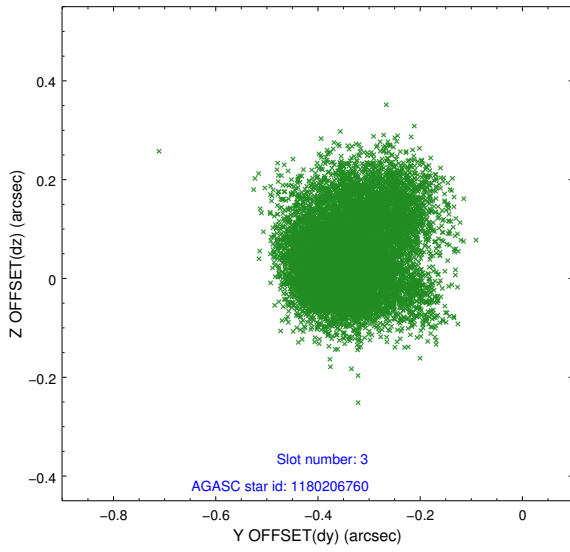
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	4911	-0.134	-0.072	0.009	0.016	0.000000	0.000000	-770.40	-1740.13
1	FID		ACIS-S-4	7.14	4911	0.173	0.072	0.009	0.016	0.000000	0.000000	2143.13	168.25
2	FID		ACIS-S-6	7.27	4911	-0.068	0.010	0.010	0.018	0.000000	0.000000	391.93	805.83
3	GUIDE	used	1180206760	6.95	9821	-0.335	0.046	0.115	0.182	205.810101	-61.709061	2214.03	1615.97
4	GUIDE	used	1180721992	8.64	9819	0.113	-0.202	0.084	0.140	205.717702	-62.580888	-869.66	2217.79
5	GUIDE	used	1180724008	8.99	9815	0.345	0.172	0.087	0.143	206.915081	-62.729132	-1696.61	341.63
6	GUIDE	used	1178995712	6.64	9822	-0.298	-0.100	0.112	0.169	205.685416	-61.892033	1592.14	1919.69
7	GUIDE	used	1180713536	9.45	9811	0.175	0.083	0.127	0.216	205.801889	-62.970809	-2278.88	2281.20

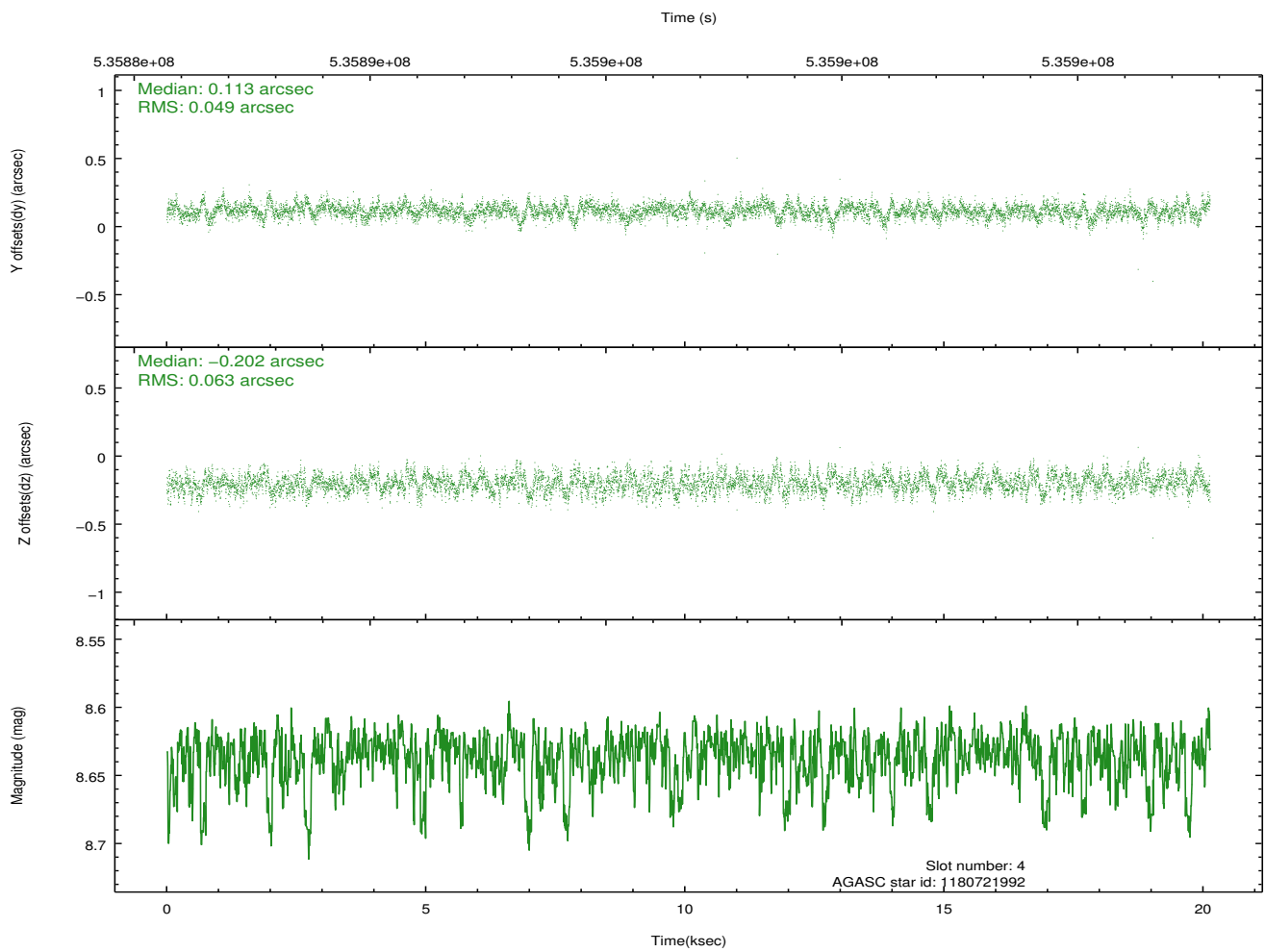
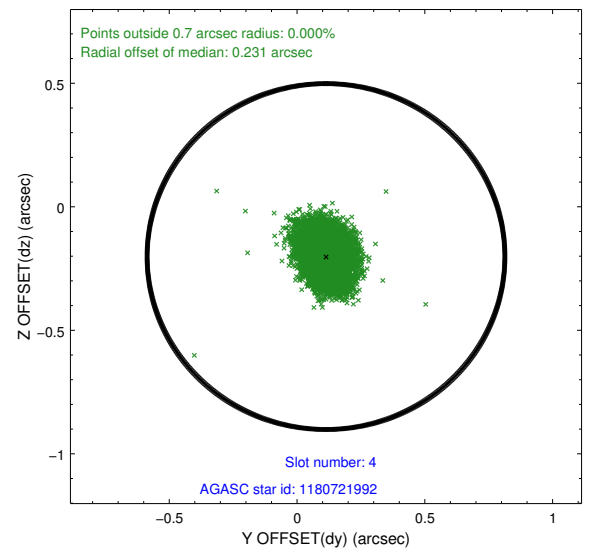
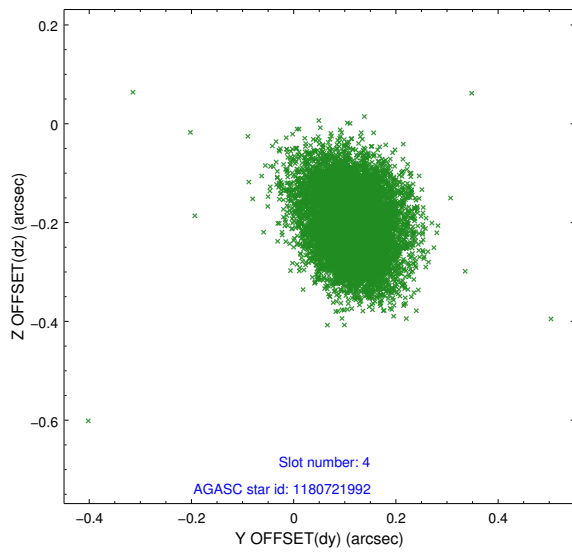
∞

2.4 Star Slots

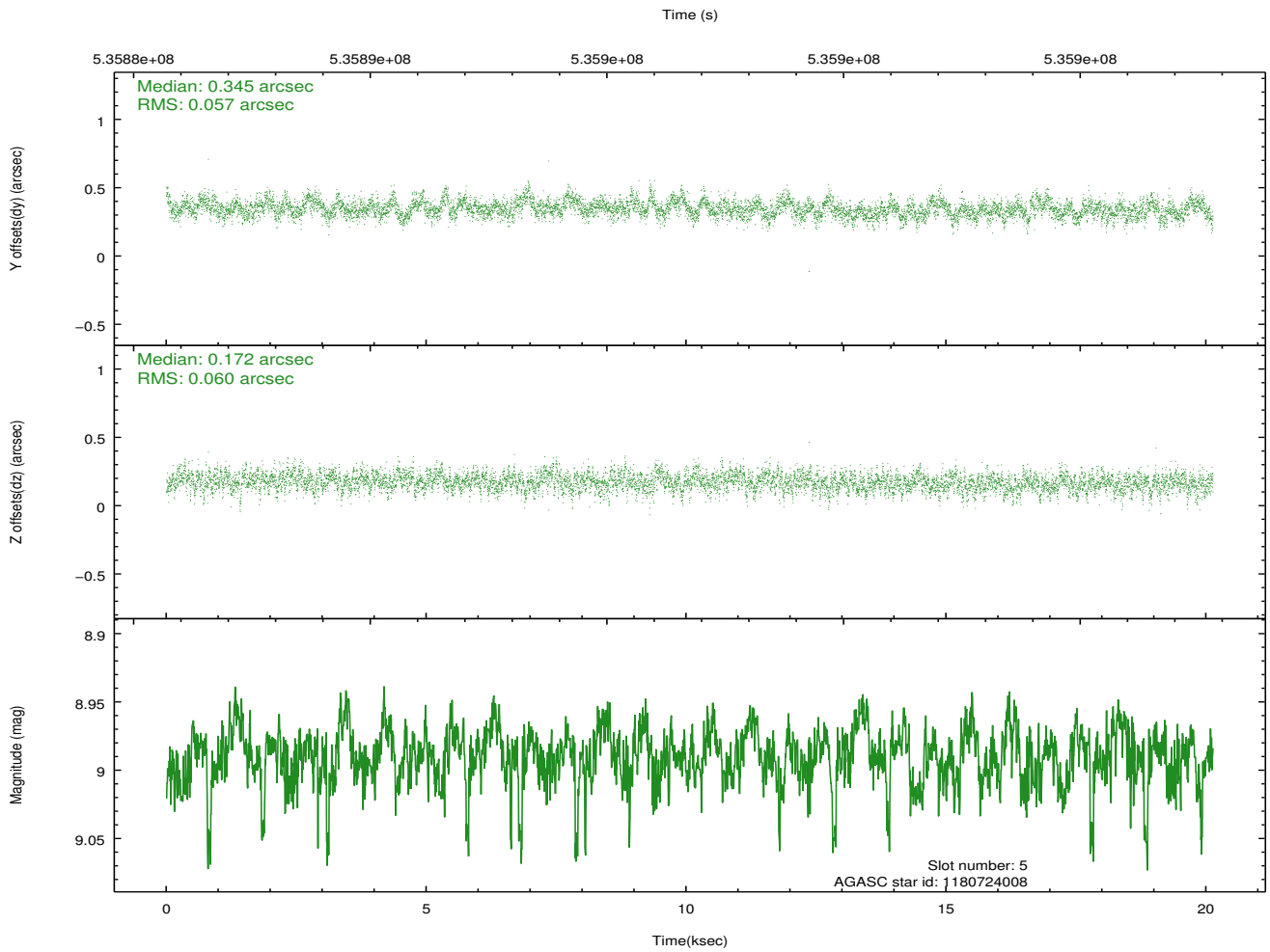
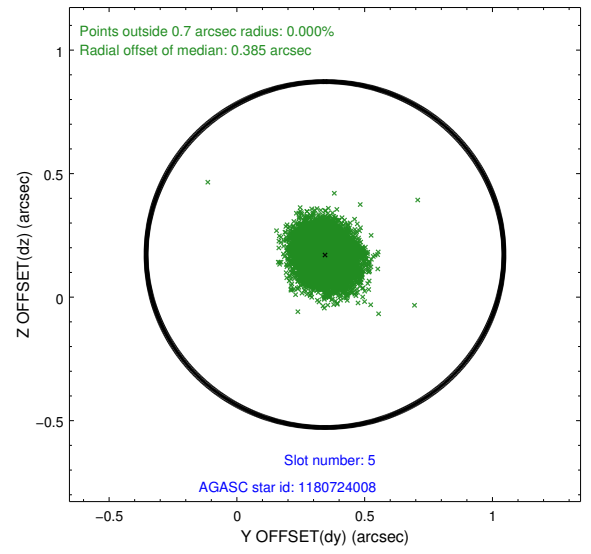
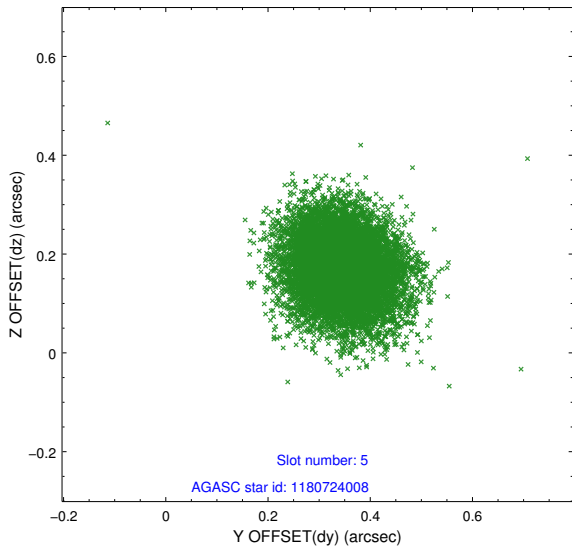
2.4.1 Slot 3



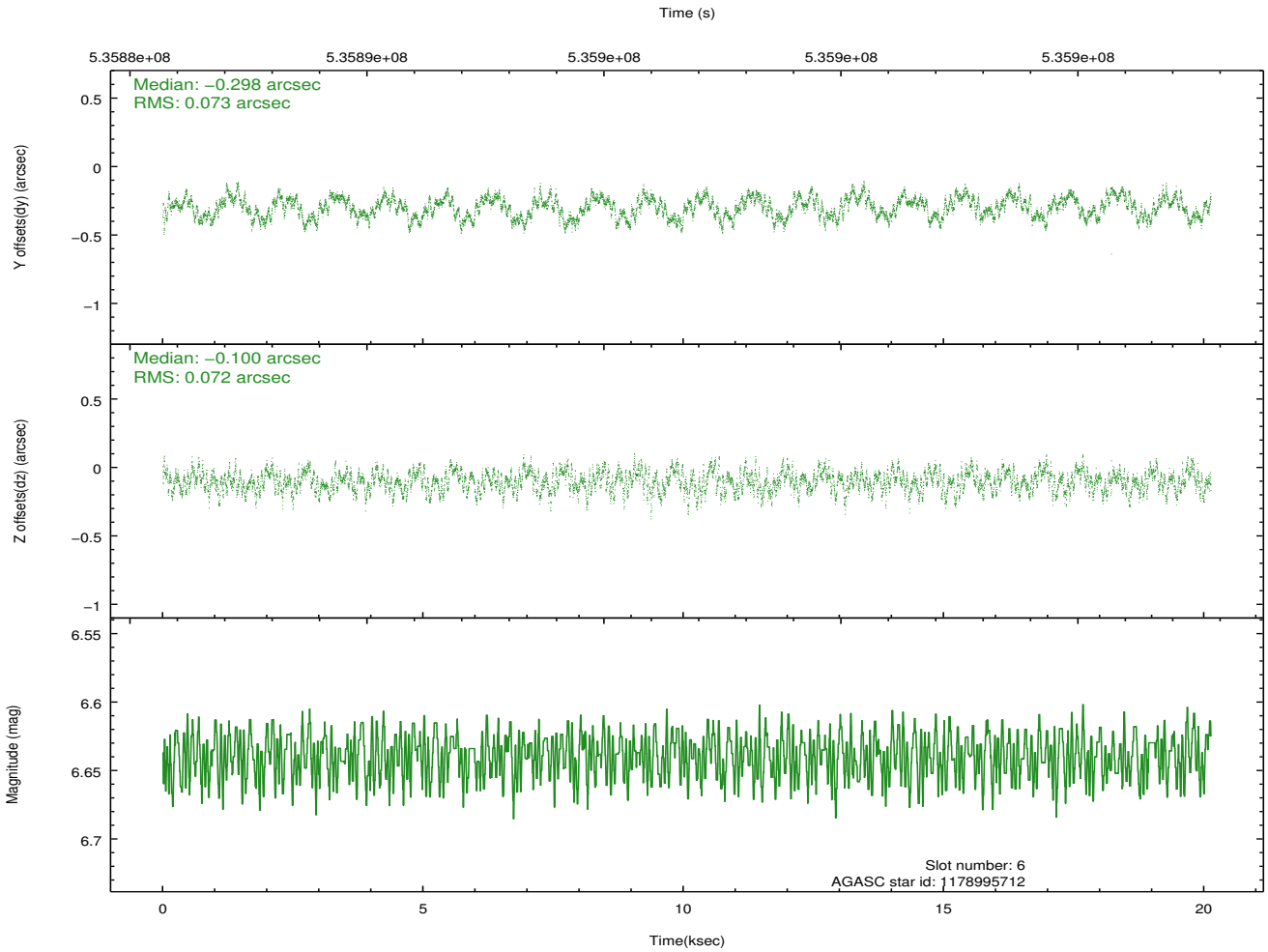
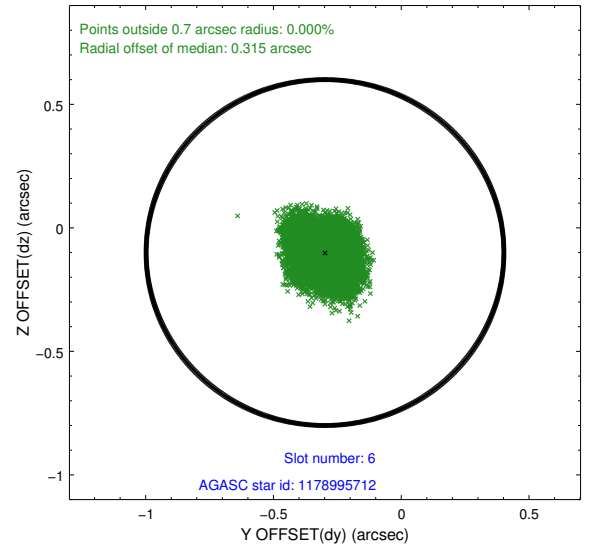
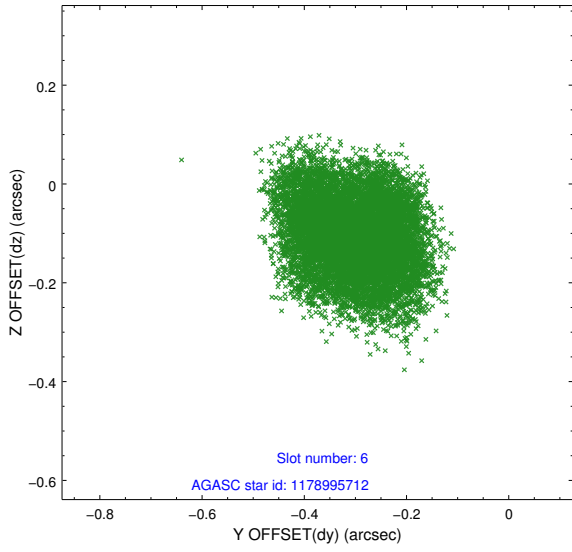
2.4.2 Slot 4



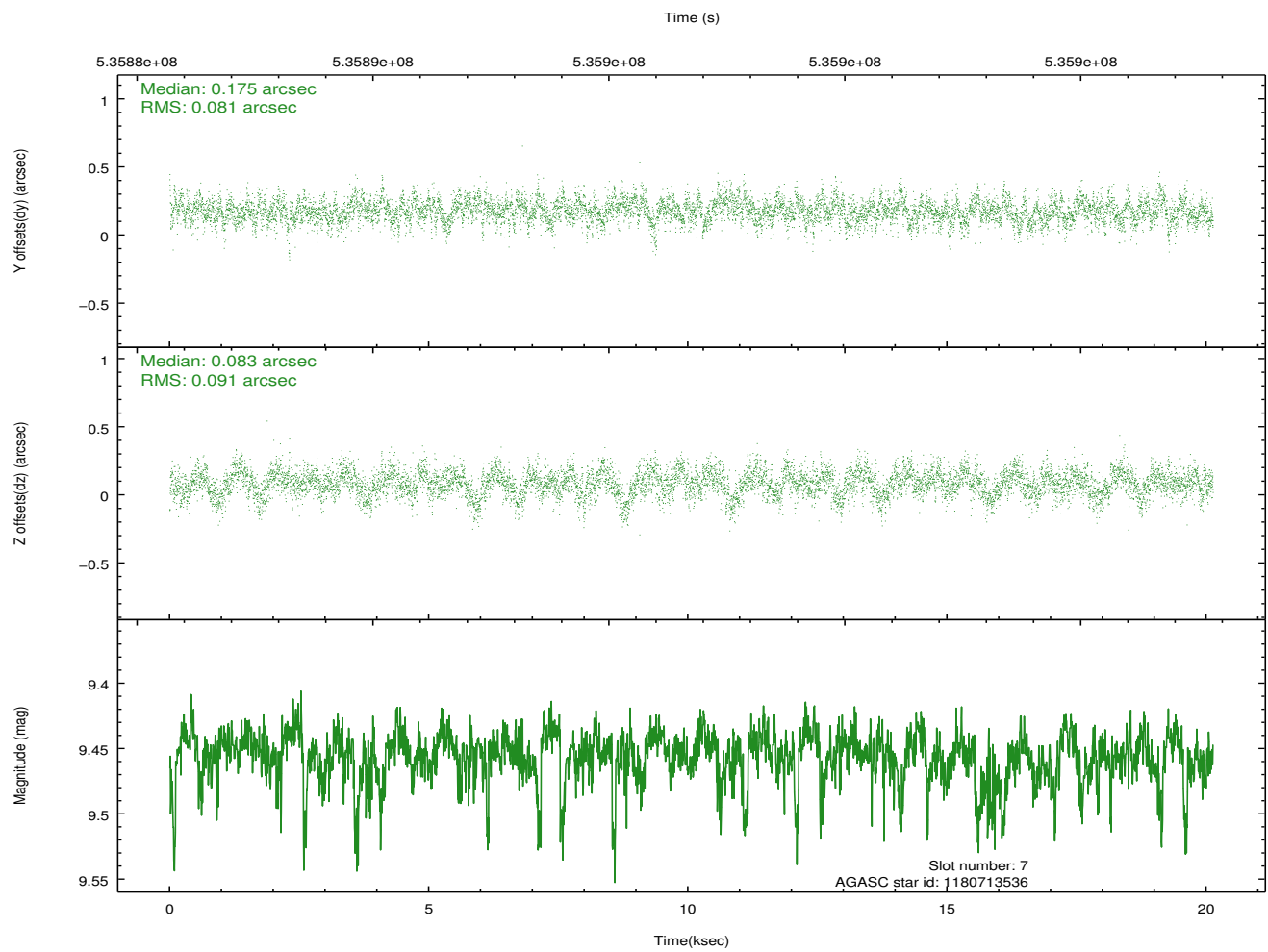
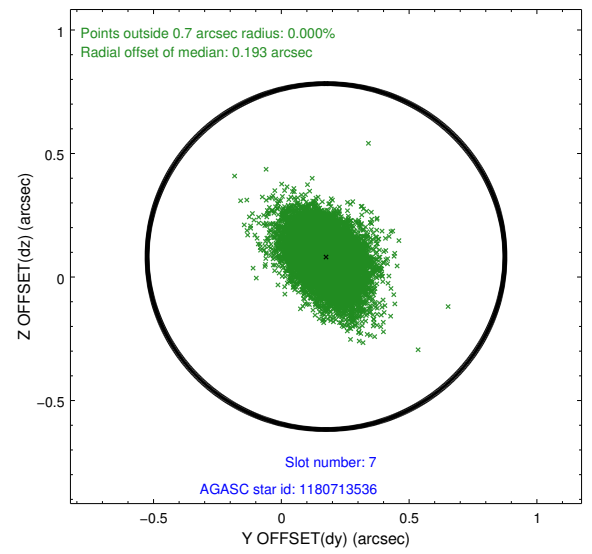
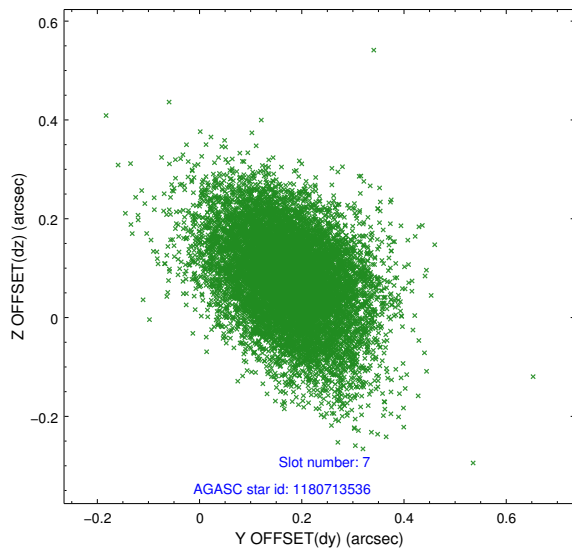
2.4.3 Slot 5



2.4.4 Slot 6

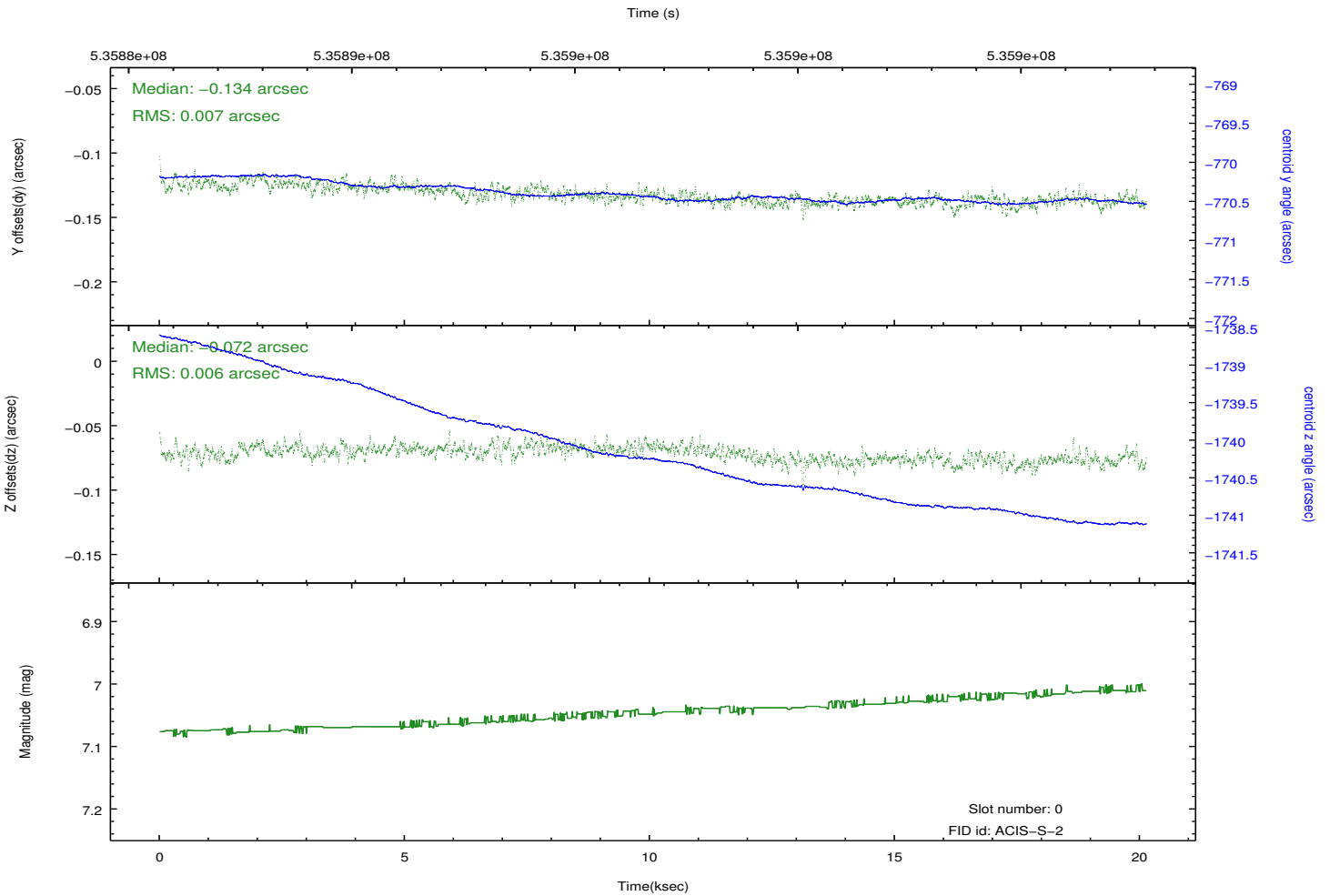
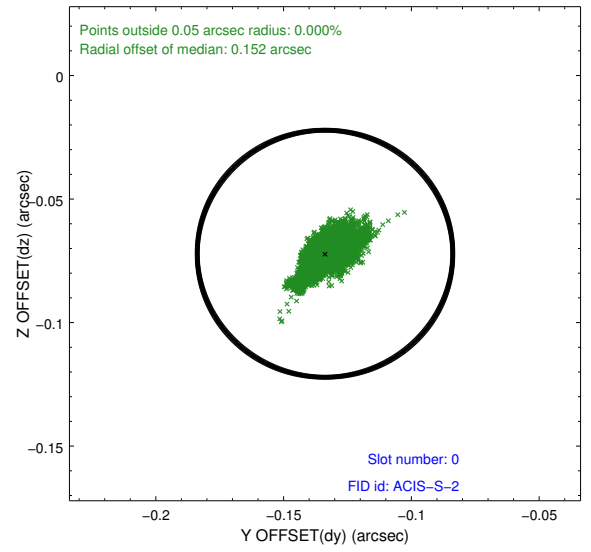
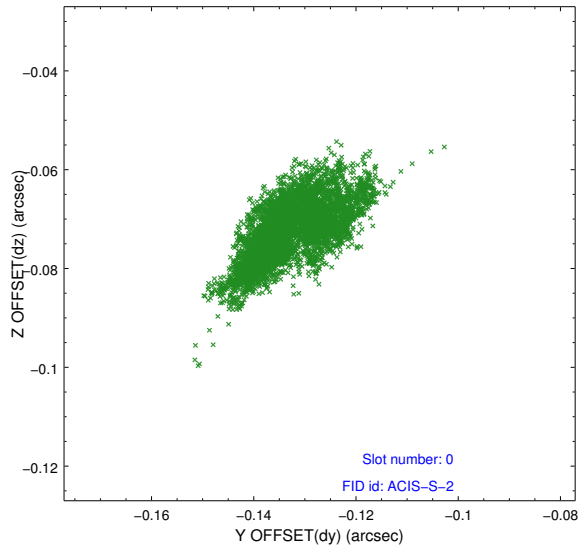


2.4.5 Slot 7

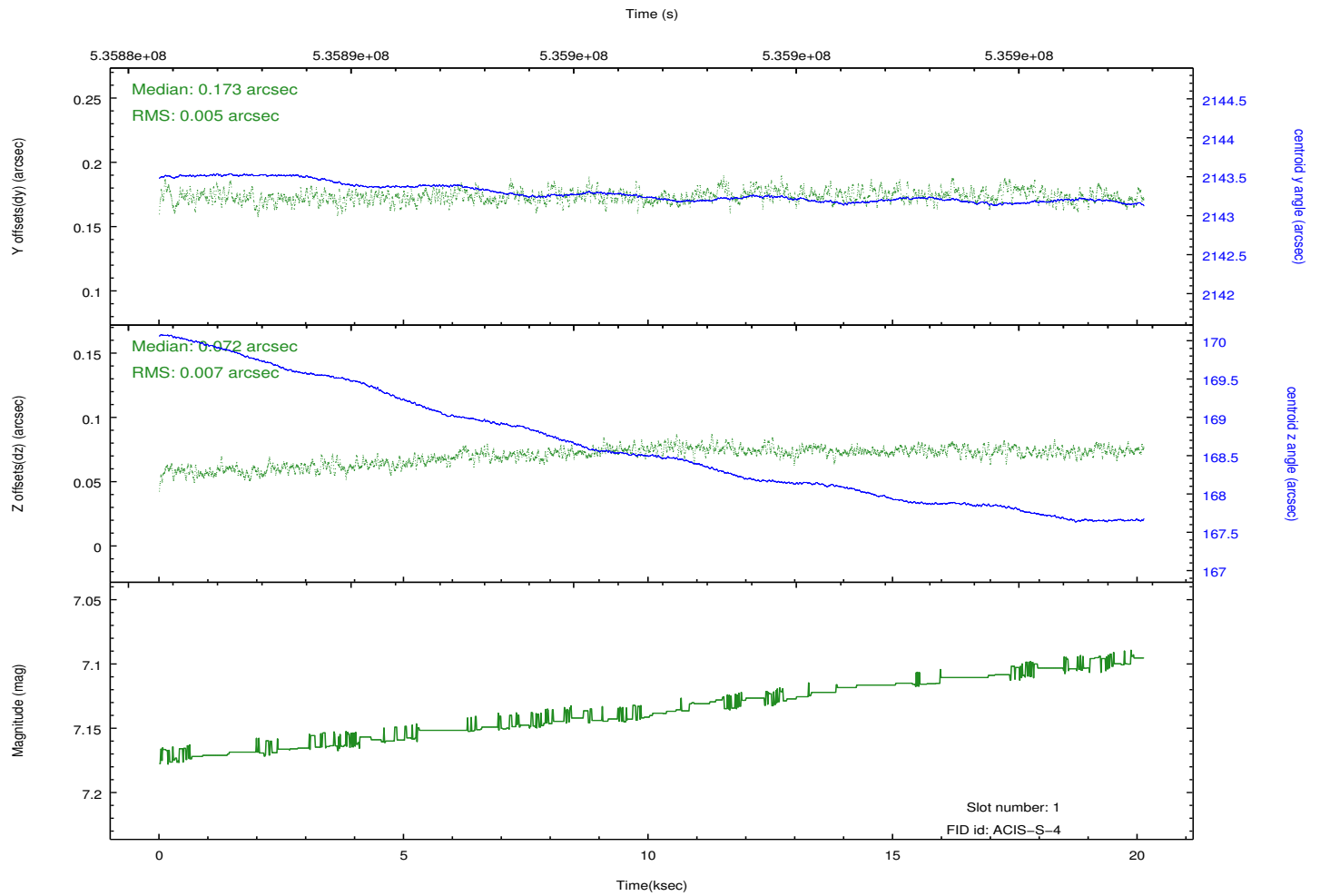
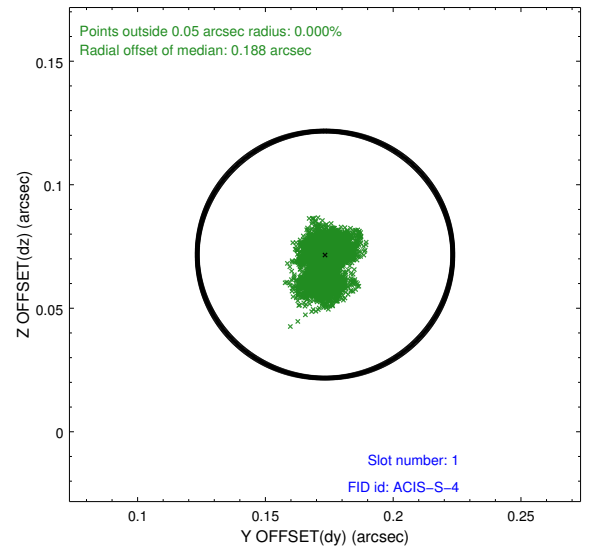
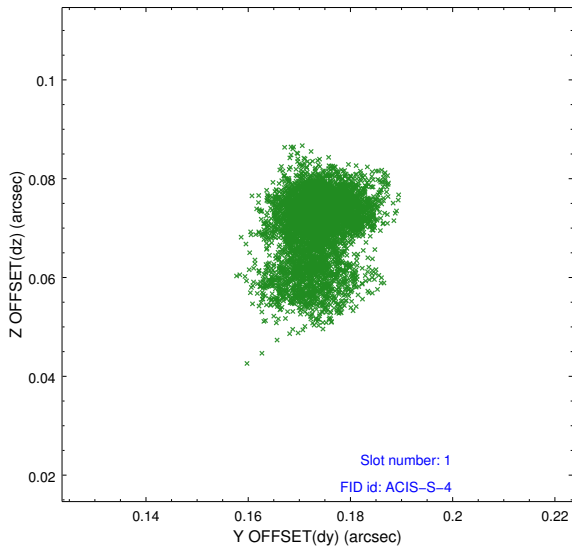


2.5 FID Slots

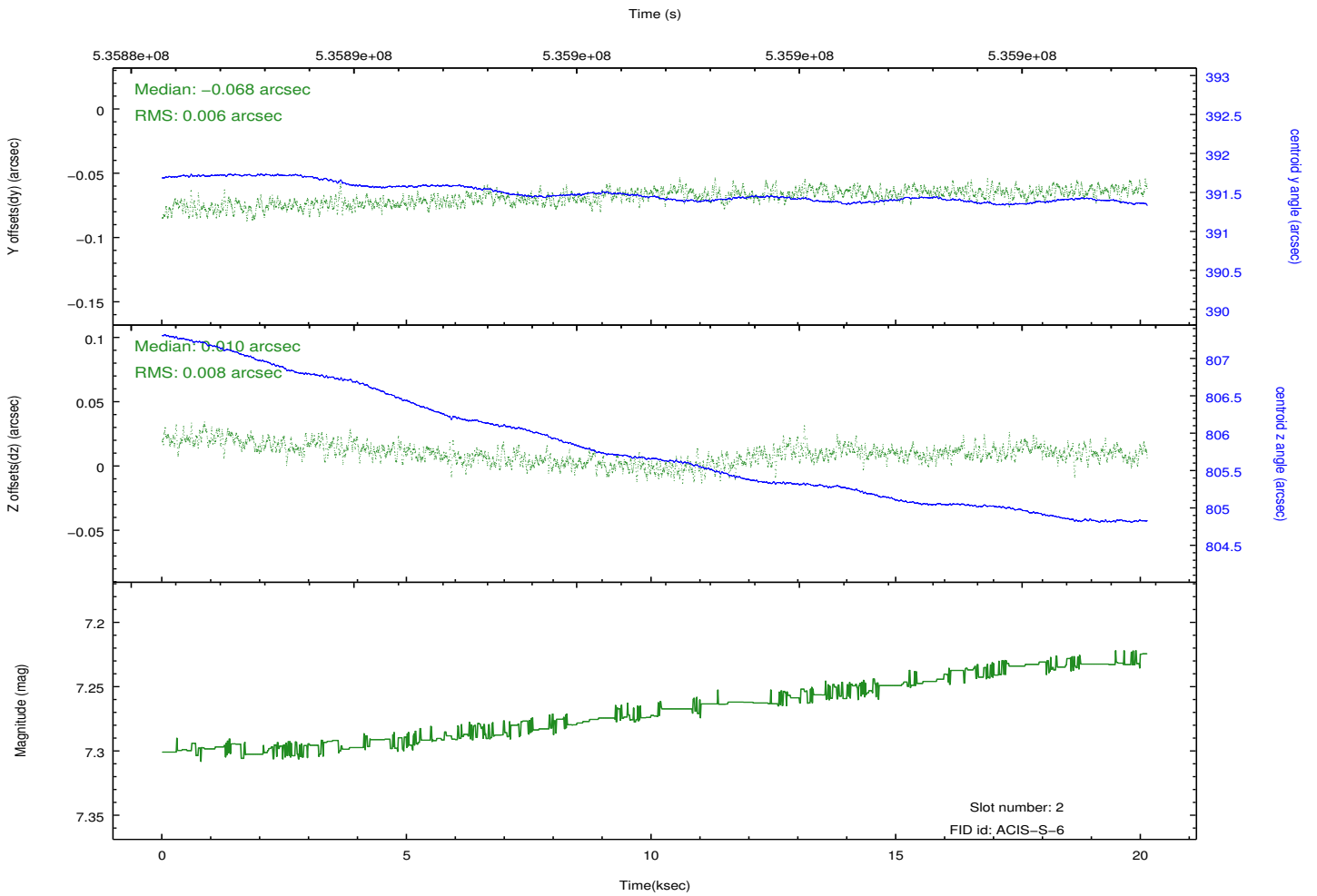
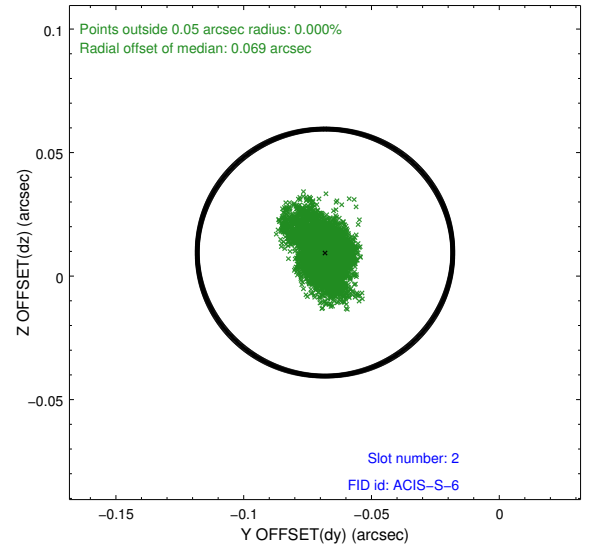
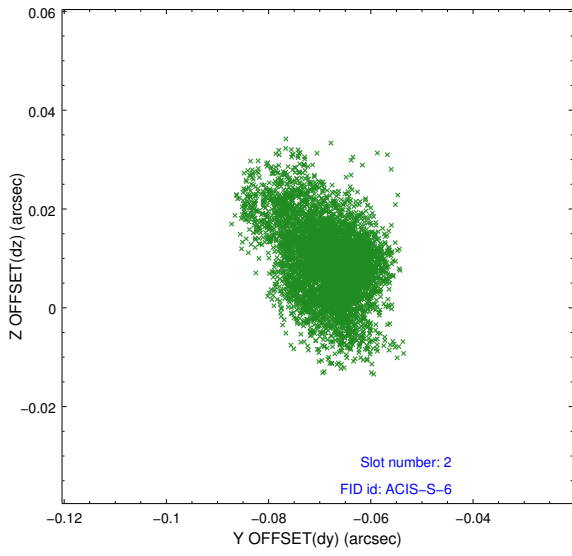
2.5.1 Slot 0



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)	2014.12.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.964799925685

A.2 Comments