

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19754 - L2 Version 1
Chandra X-Ray Center

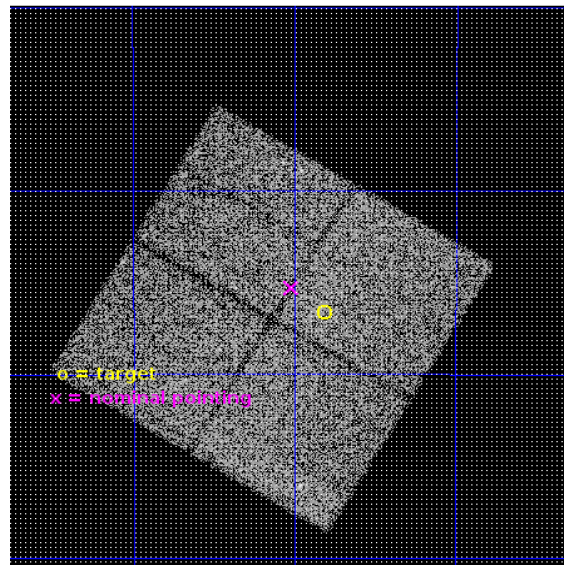
L2 Processing Date : Aug 14 2017

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1 Front

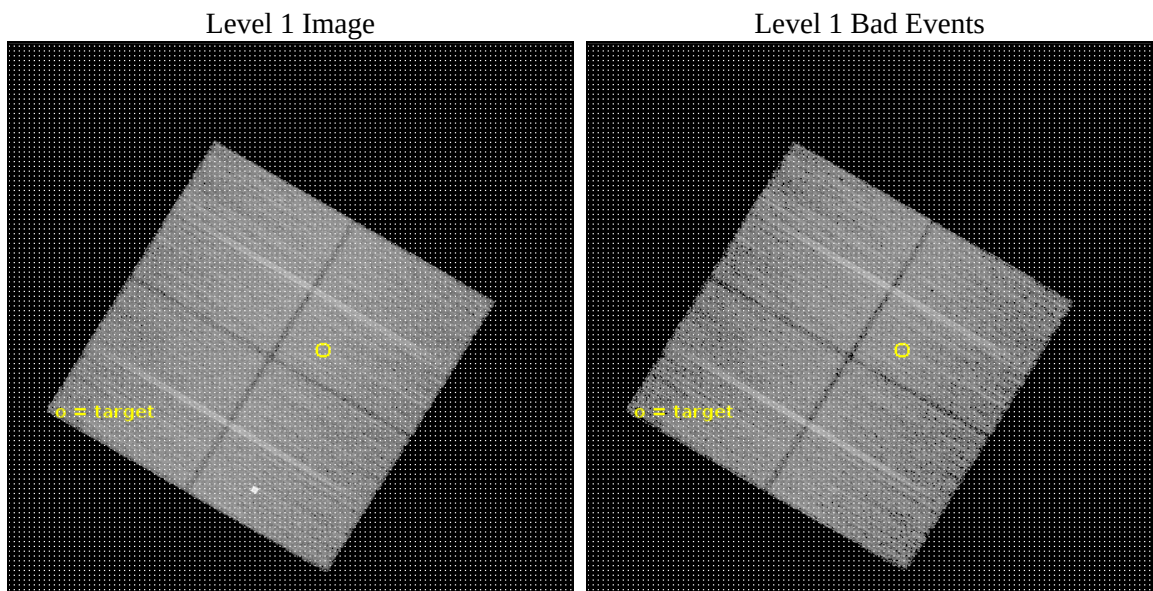
seq_num	801691	Sequence number
obs_id	19754	Observation id
title	A Chandra Survey of low-mass clusters at $0.7 < z < 0.8$ selected in the 100 deg ² SPT-Pol Deep Field	Proposal title
observer	Ralph Kraft	Principal investigator
object	SPT-CLJ2301-5546	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	345.452917	Observer's specified target RA [deg]
dec_targ	-55.777	Observer's specified target Dec [deg]
ra_nom	345.50487514403	Nominal RA [deg]
dec_nom	-55.75475450135	Nominal Dec [deg]
roll_nom	30.971054669363	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27077.744304895	Sum of GTIs [s]
livetime	26723.953641207	Livetime [s]
ontime0	27080.762265205	Sum of GTIs [s]
ontime1	27080.803305149	Sum of GTIs [s]
ontime2	27080.844345212	Sum of GTIs [s]
ontime3	27077.744304895	Sum of GTIs [s]
l2events	68956	Number of level 2 events



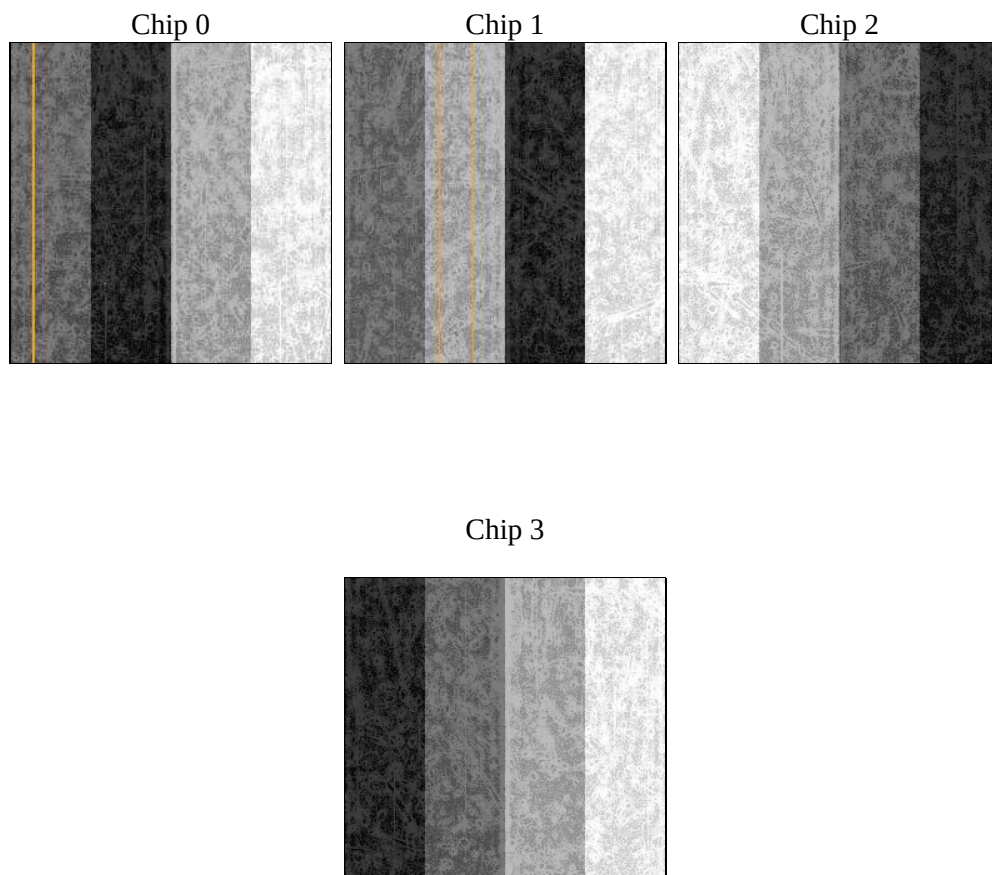
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	27077.744304895	Sum of GTIs [s]
caldsver	4.7.5	 	ontime0	27080.762265205	Sum of GTIs [s]
date	2017-08-14T23:56:44	Date and time of file creation	ontime1	27080.803305149	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	27080.844345212	Sum of GTIs [s]
			ontime3	27077.744304895	Sum of GTIs [s]
			l1events	759562	Number of level 1 events

2.1.4 Events

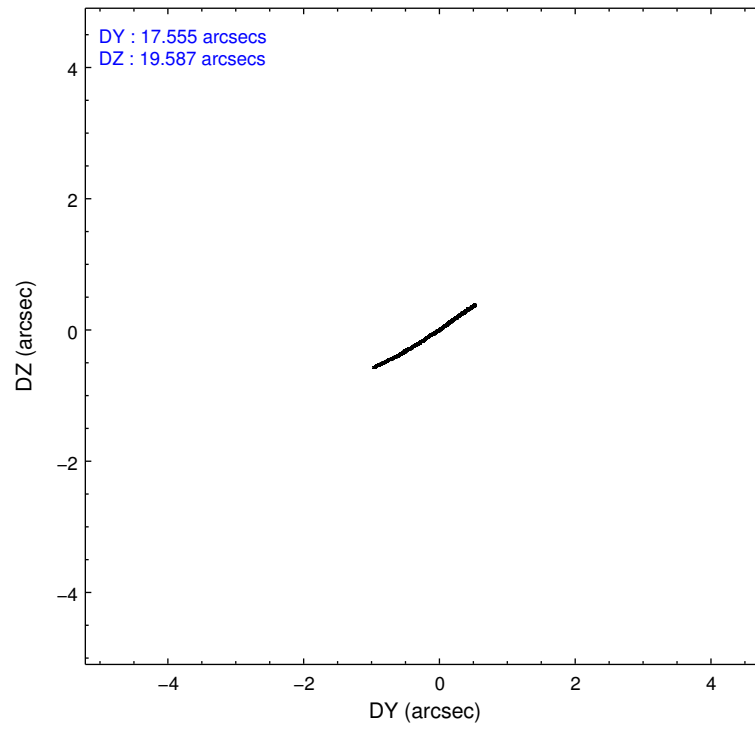
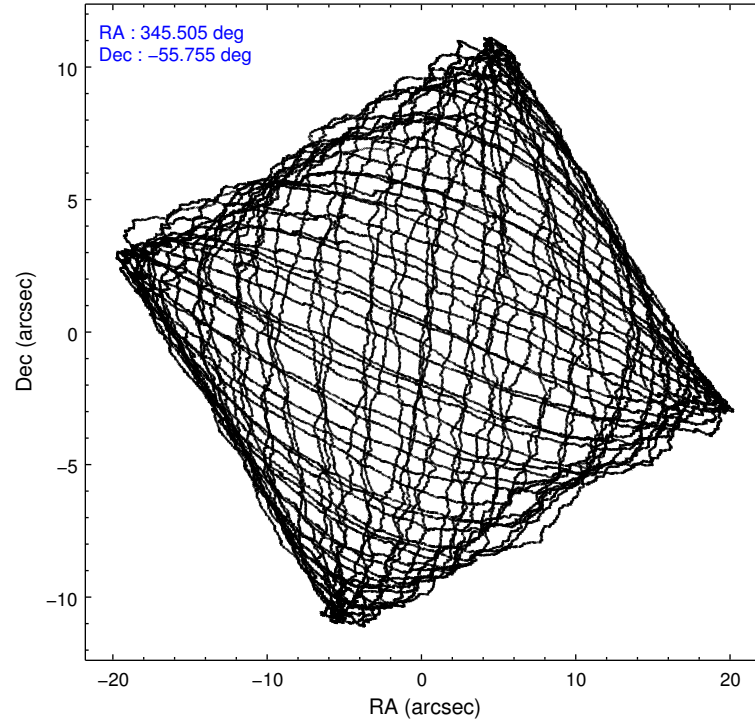
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	177208	192106	202530	187718
rejected events	156880	161531	182440	168160
rejected %	88%	84%	90%	89%

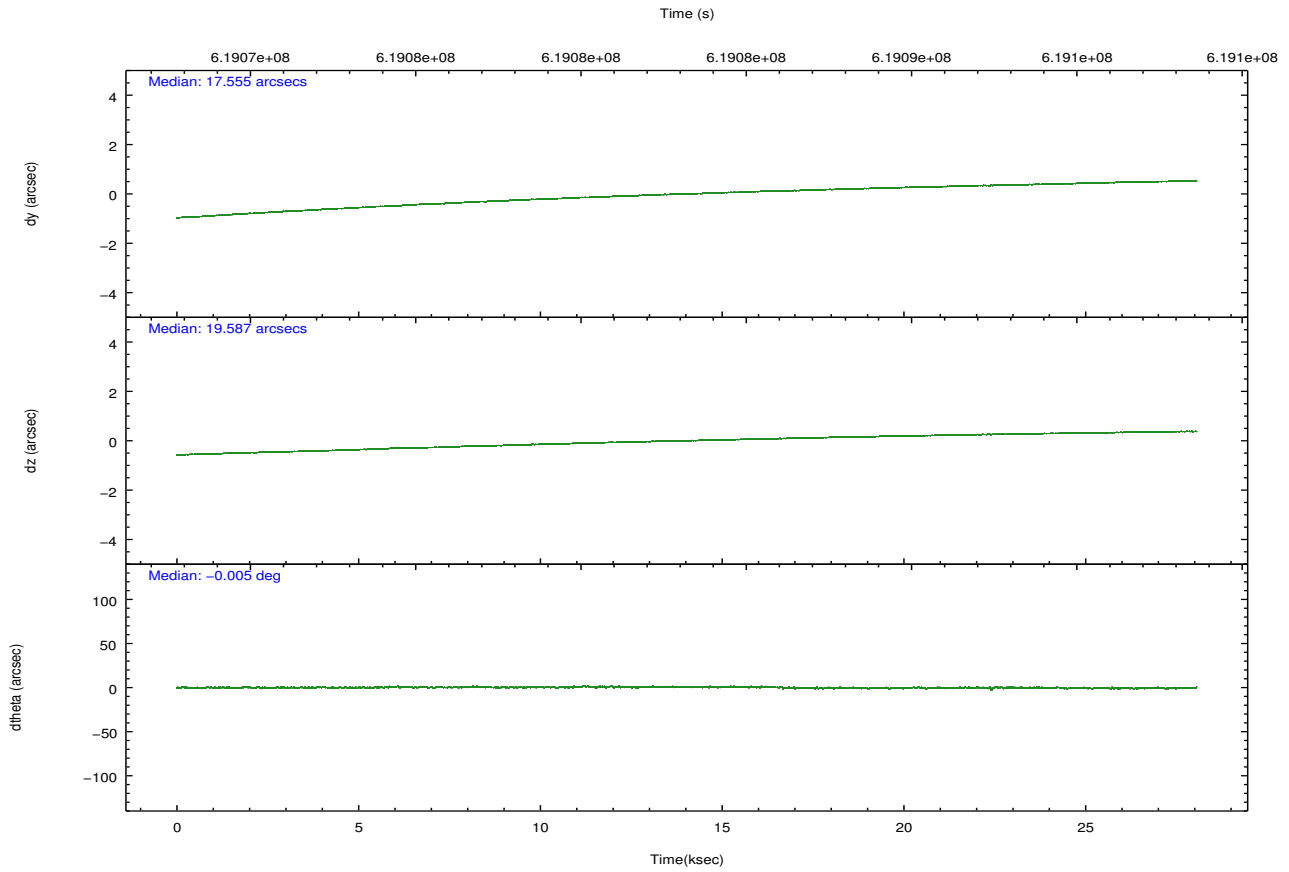
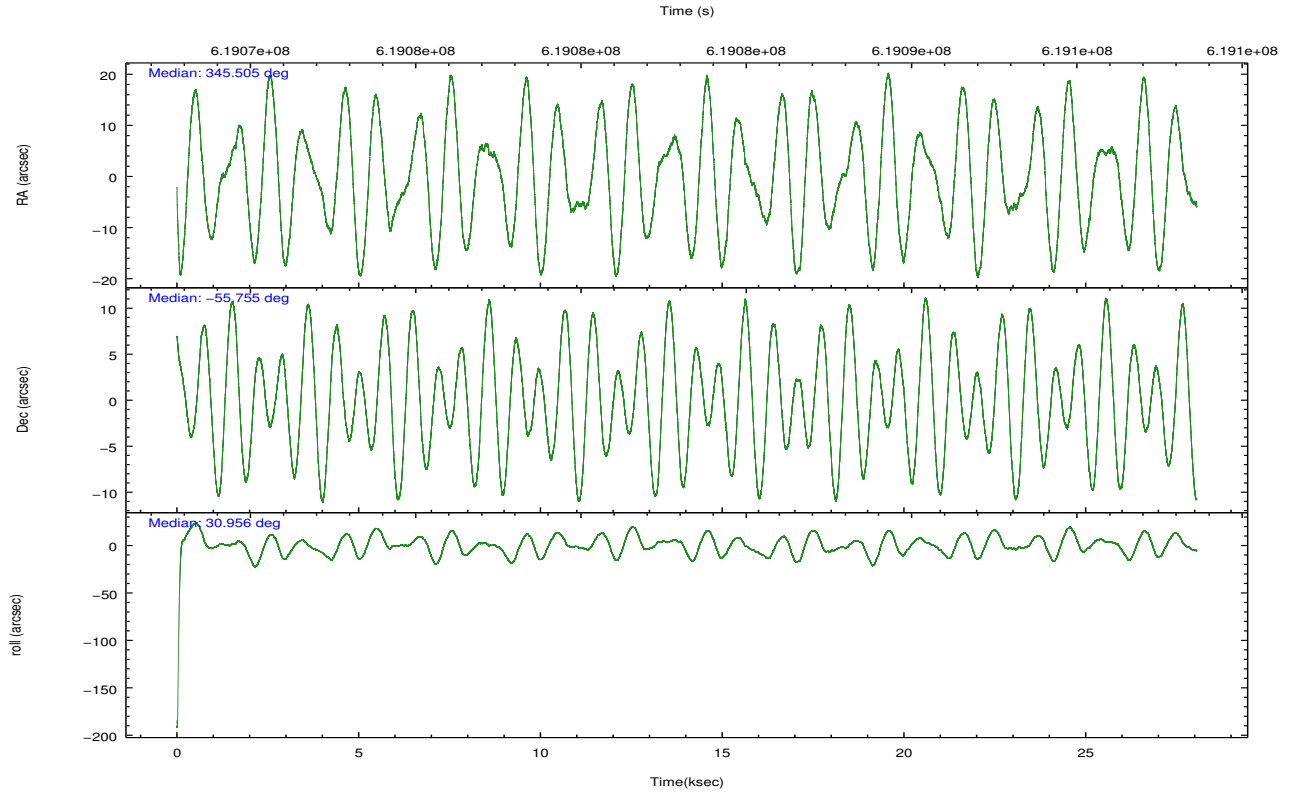
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	6750	15479	7285	6675
	3%	8%	3%	3%
grade 1 events	89	135	110	110
	0%	0%	0%	0%
grade 2 events	5075	5410	4790	4400
	2%	2%	2%	2%
grade 3 events	2083	2187	2040	2115
	1%	1%	1%	1%
grade 4 events	1956	2135	1997	2070
	1%	1%	0%	1%
grade 5 events	7925	8326	7393	9017
	4%	4%	3%	4%
grade 6 events	4465	5366	3982	4299
	2%	2%	1%	2%
grade 7 events	148865	153068	174933	159032
	84%	79%	86%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	345.481229	345.5048751440301	CCD I2 on	Y	Y
[deg] Pointing Dec	-55.778938	-55.75475450135013	CCD I3 on	Y	Y
[deg] Pointing Roll	30.742925	30.97105466936343	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-230.082463	-230.0875075610572	CCD S3 on	N	N
[mm] SIM translation stage offset	-3.51	-3.504945441872508	CCD S4 on	N	N
[s] Observation start time (MET)	619070230.184000	619068913.20636	CCD S5 on	N	N
Observation start date	2017-08-14T03:56:01	2017-08-14T03:35:13	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	619097230.184000	619097681.88304	On-chip summing requested	N	N
Observation end date	2017-08-14T11:26:01	2017-08-14T11:34:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



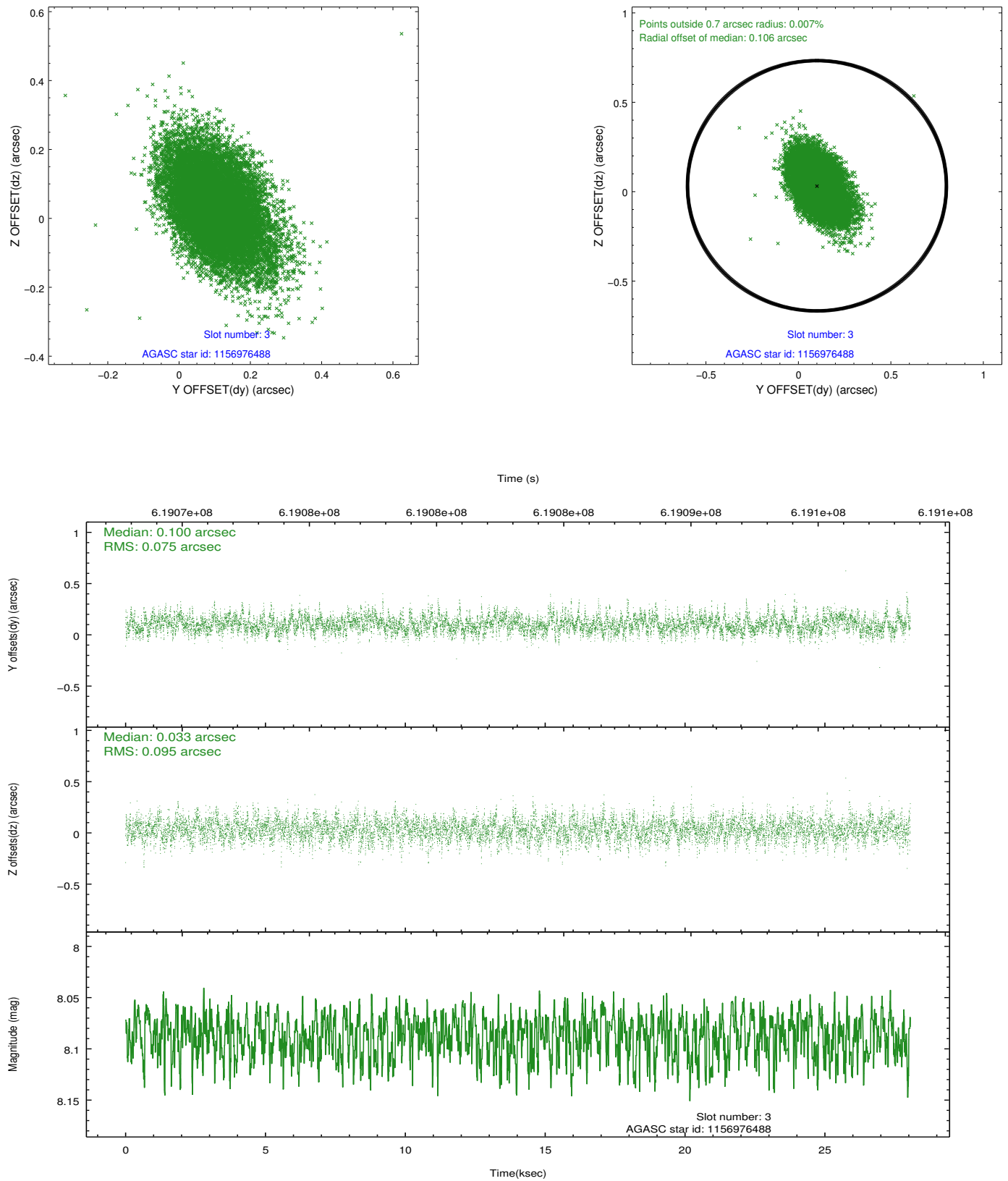


Slot Statistics

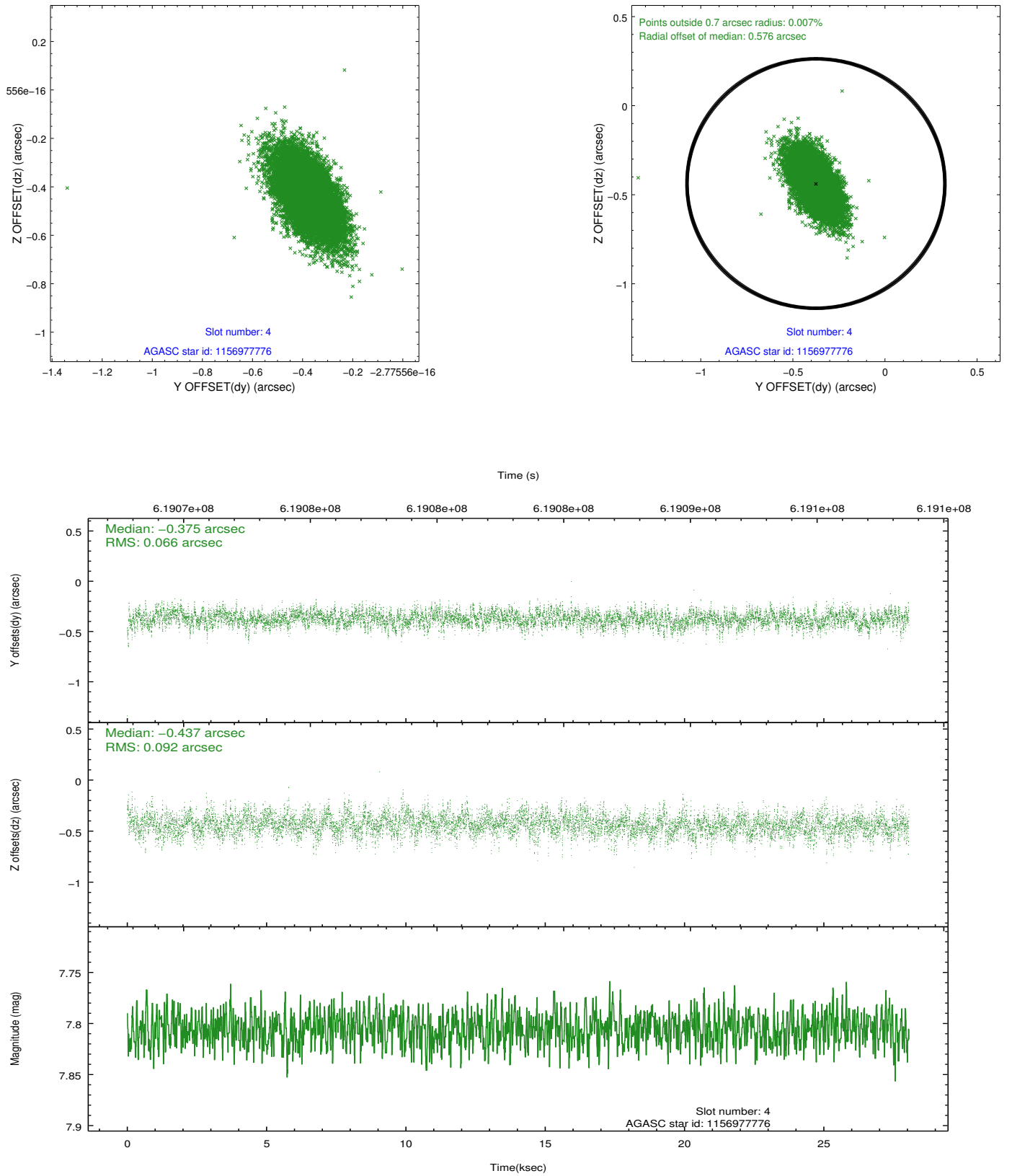
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	6843	0.150	-0.127	0.017	0.027	0.000000	0.000000	922.04	-915.24
1	FID		ACIS-I-5	7.23	6843	-0.433	0.080	0.009	0.019	0.000000	0.000000	-1826.70	982.24
2	FID		ACIS-I-6	7.23	6843	0.190	0.115	0.019	0.029	0.000000	0.000000	387.39	1627.00
3	GUIDE	used	1156976488	8.09	13675	0.100	0.033	0.124	0.217	345.997035	-55.697829	1047.31	-288.09
4	GUIDE	used	1156977776	7.81	13679	-0.375	-0.437	0.114	0.209	345.816578	-55.168626	1716.14	1532.13
5	GUIDE	used	1156978792	9.45	13666	0.174	0.198	0.164	0.278	344.664188	-55.810852	-1484.48	737.61
6	GUIDE	used	1156979064	7.78	13685	0.039	0.140	0.116	0.203	346.592774	-55.965798	1572.19	-1738.60
7	GUIDE	used	1157895656	7.72	13682	0.064	0.074	0.125	0.224	346.767838	-55.952317	1898.26	-1882.71

2.4 Star Slots

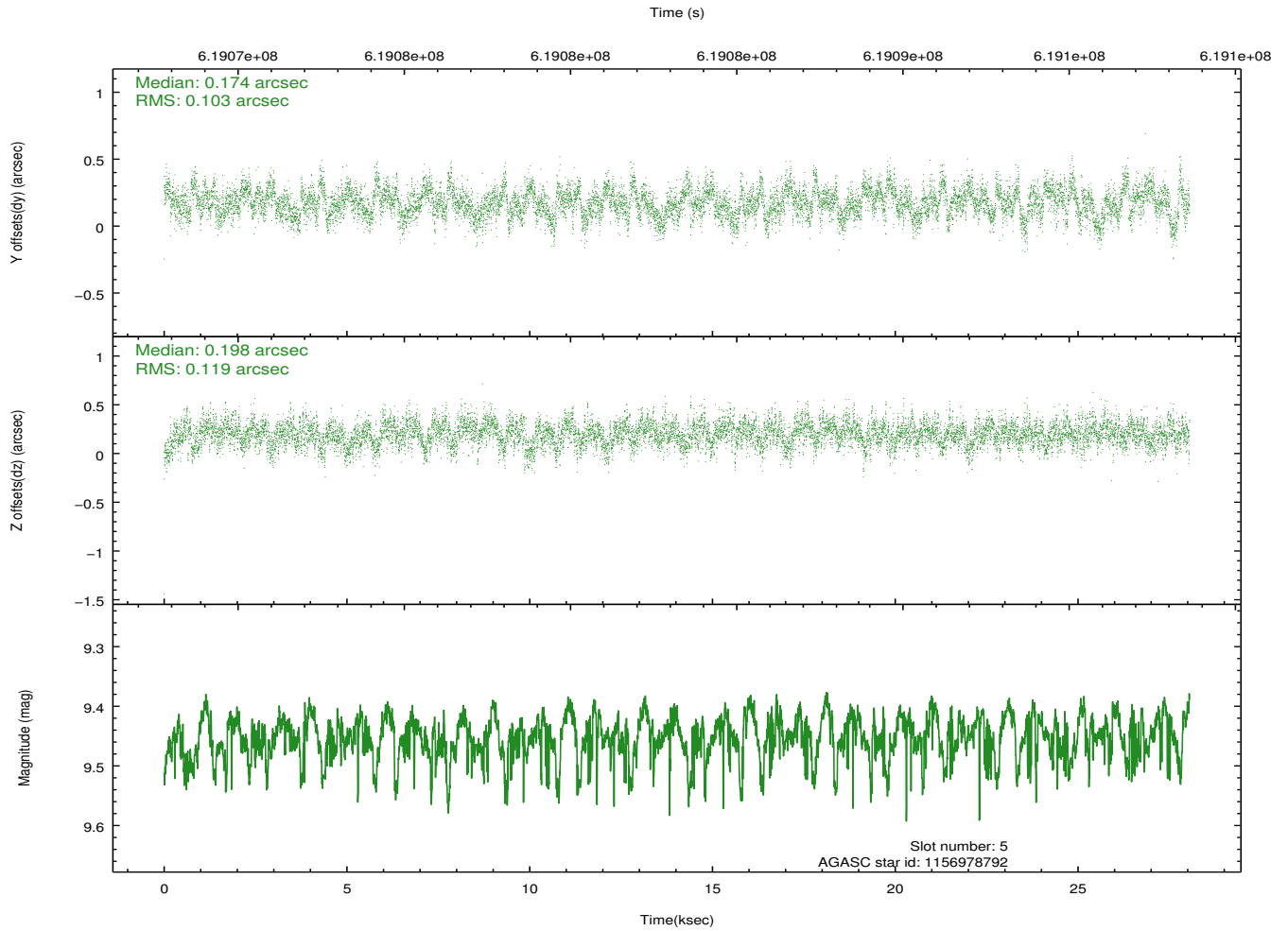
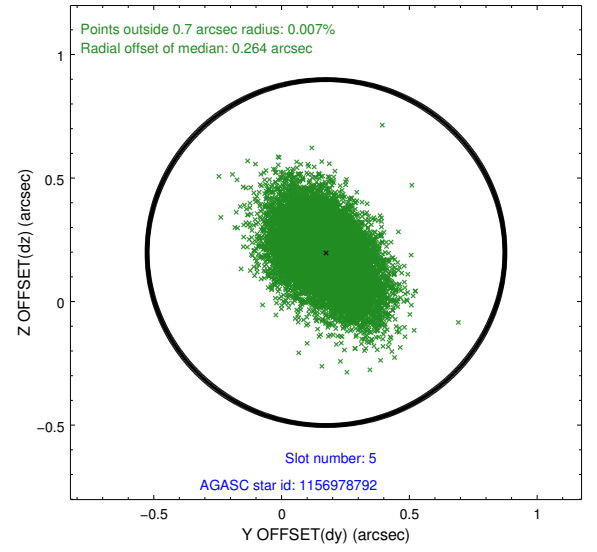
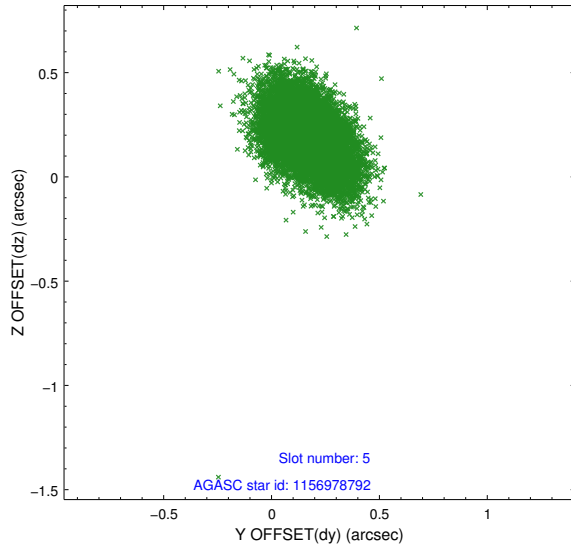
2.4.1 Slot 3



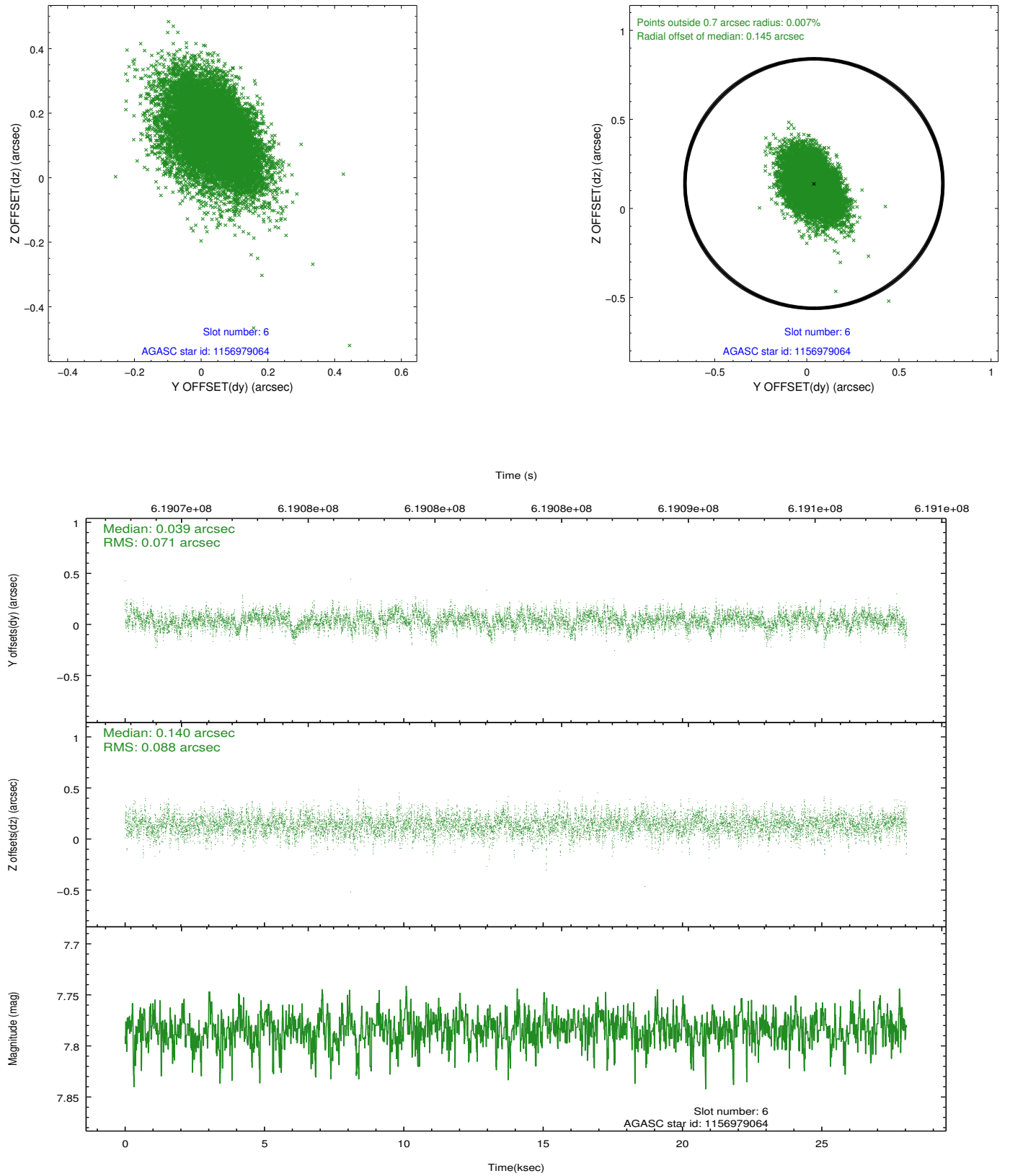
2.4.2 Slot 4



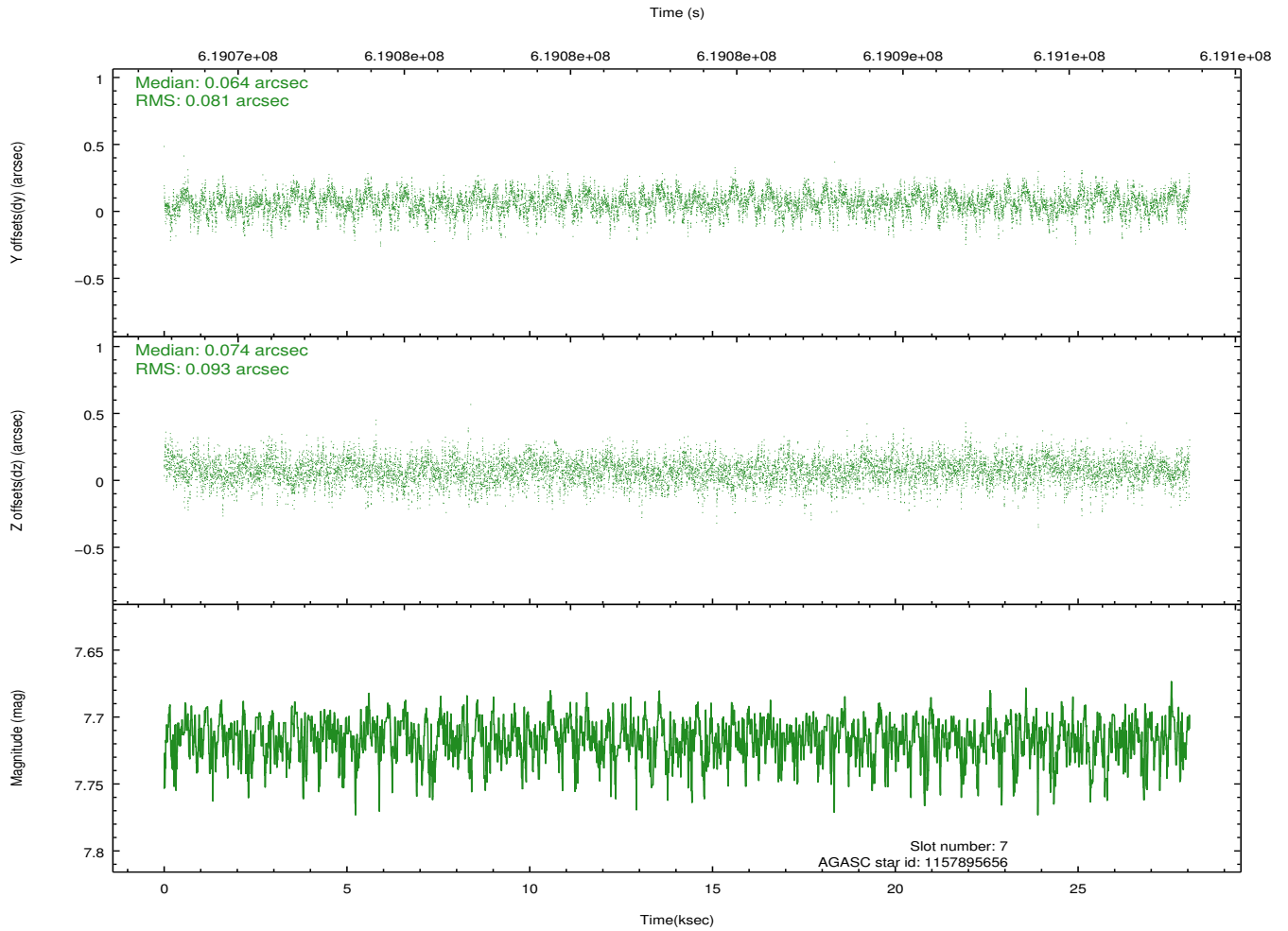
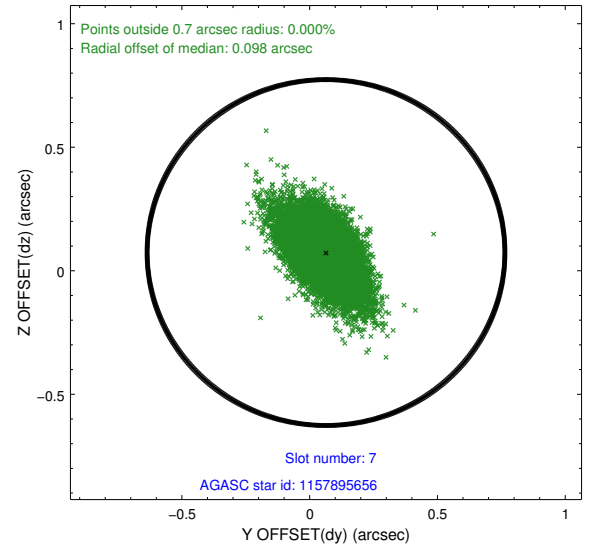
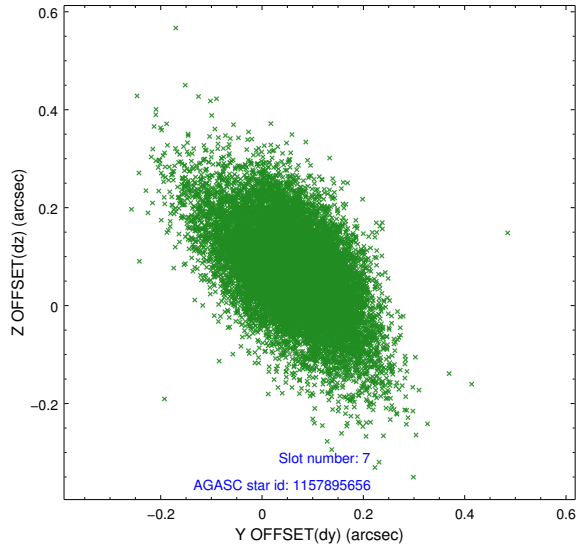
2.4.3 Slot 5



2.4.4 Slot 6

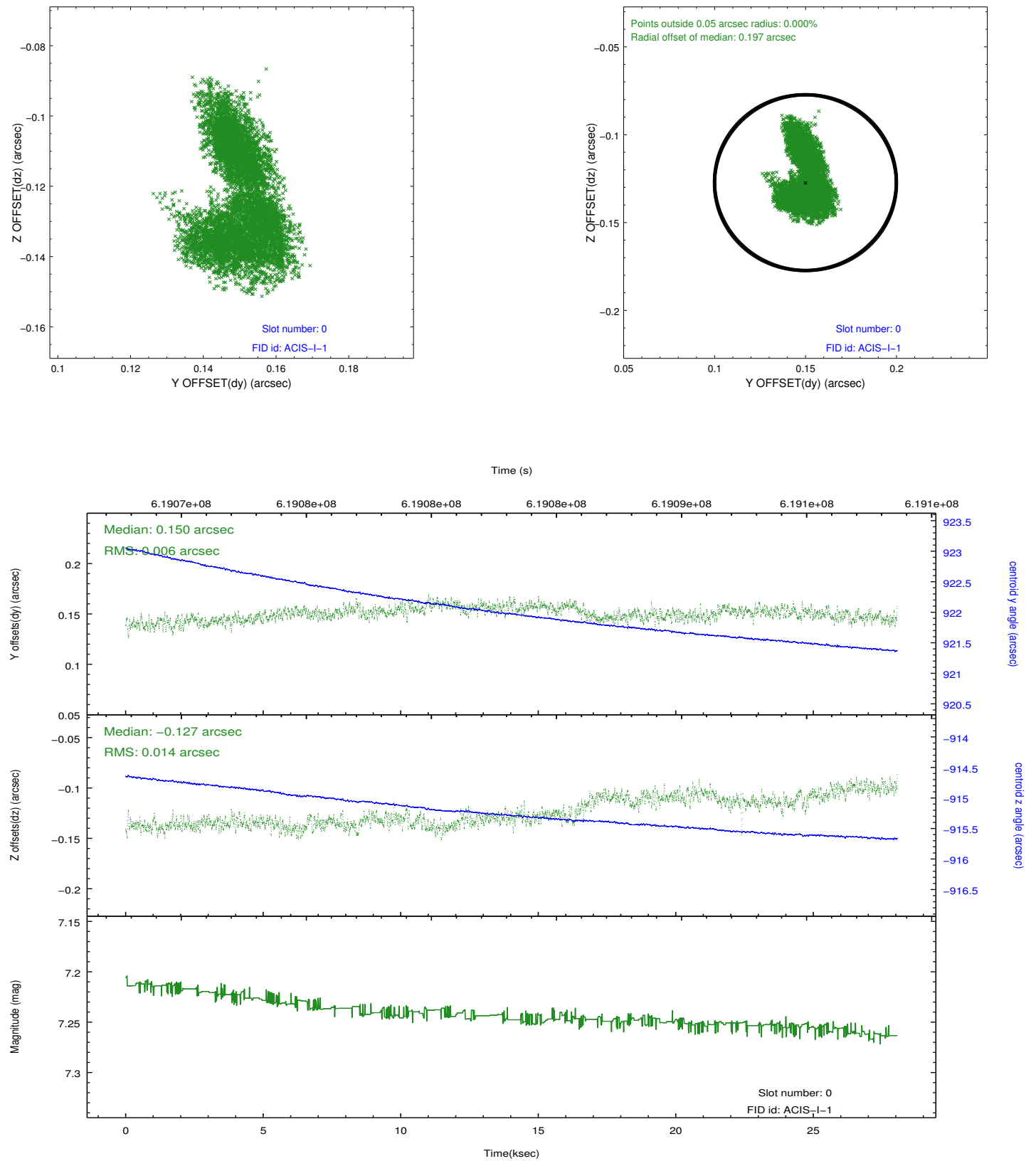


2.4.5 Slot 7

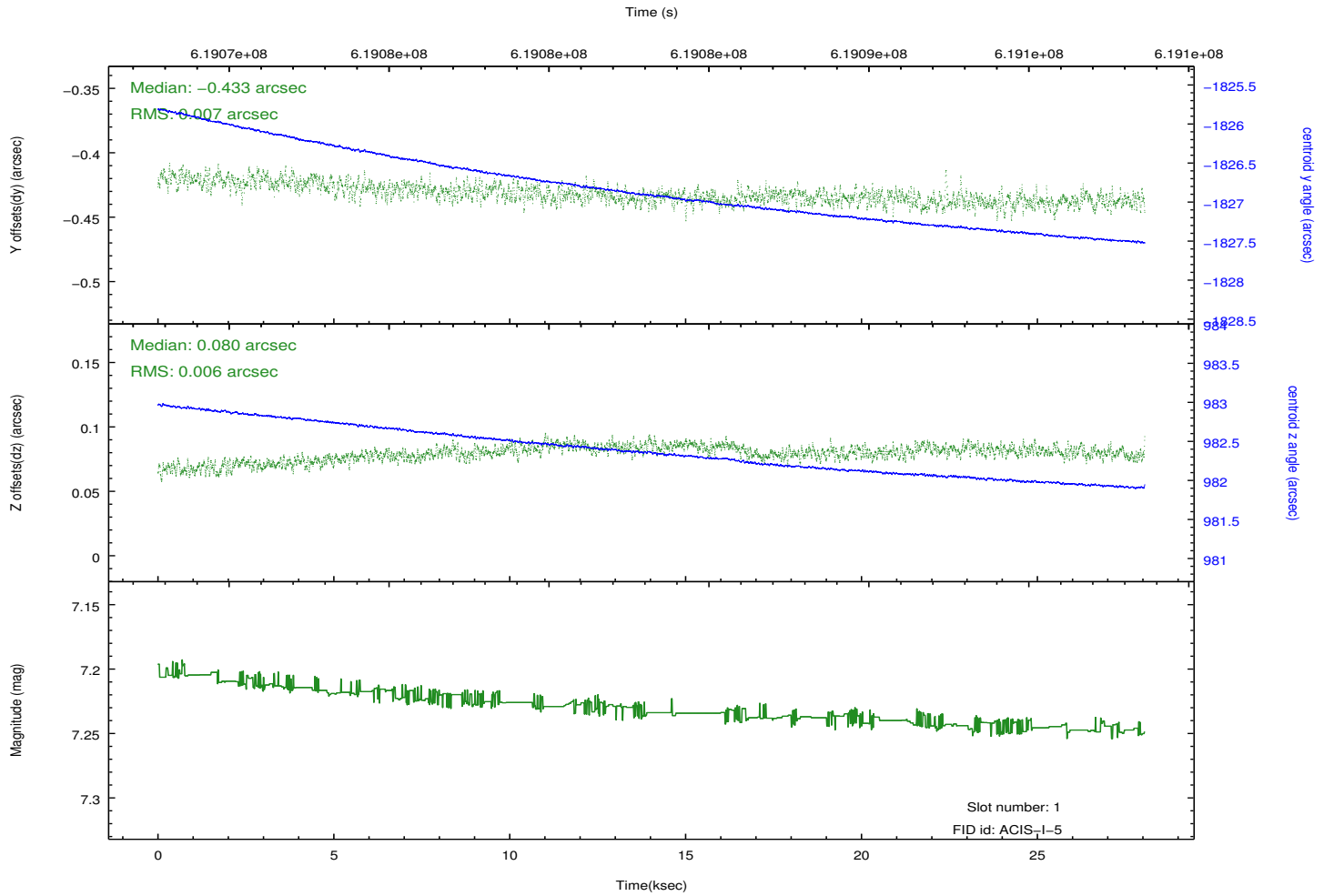
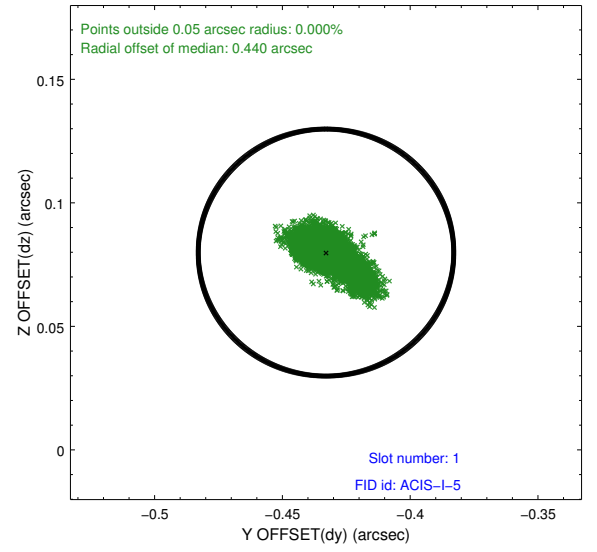
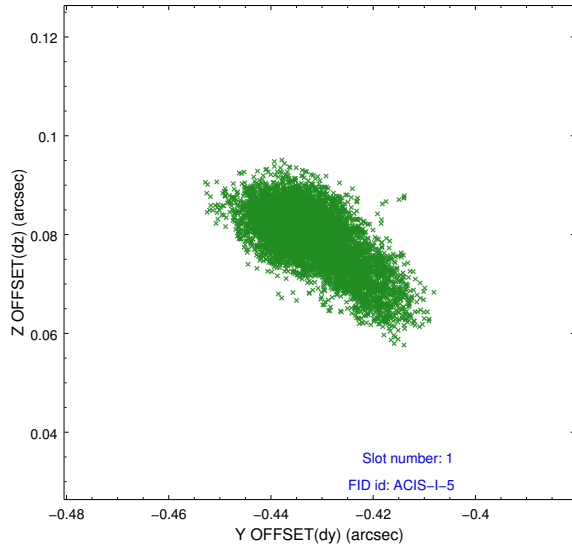


2.5 FID Slots

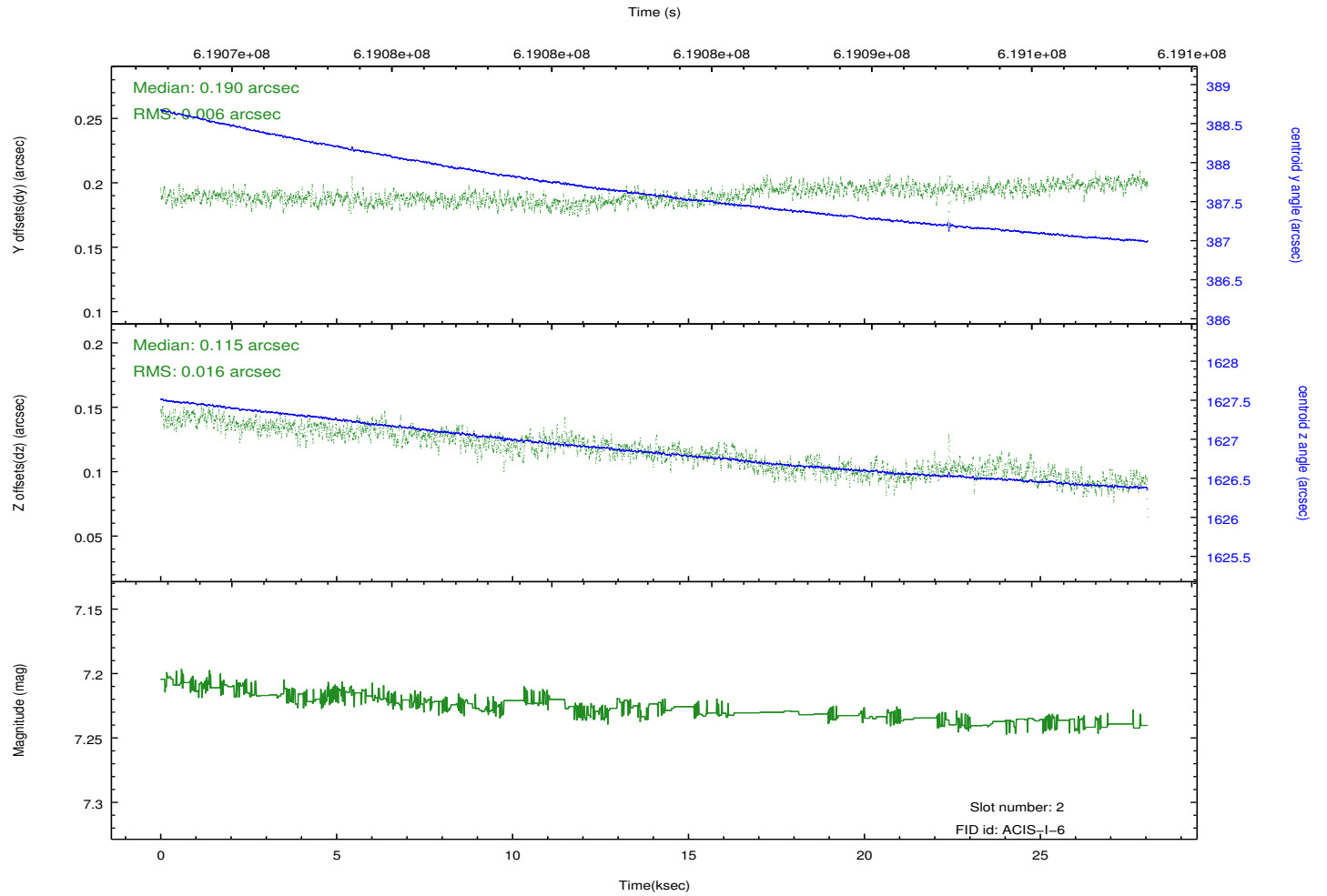
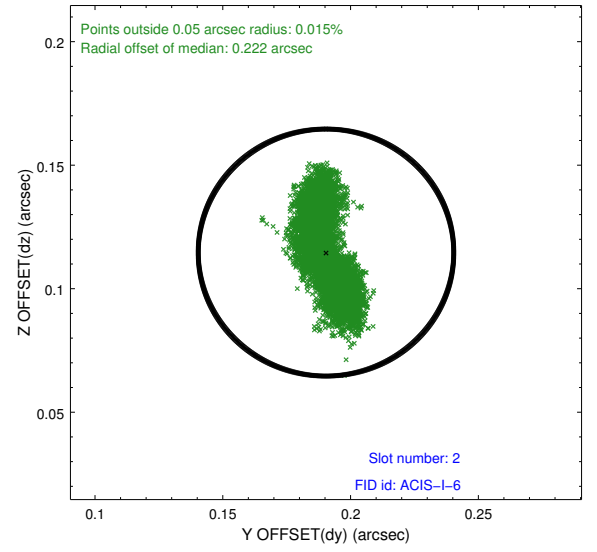
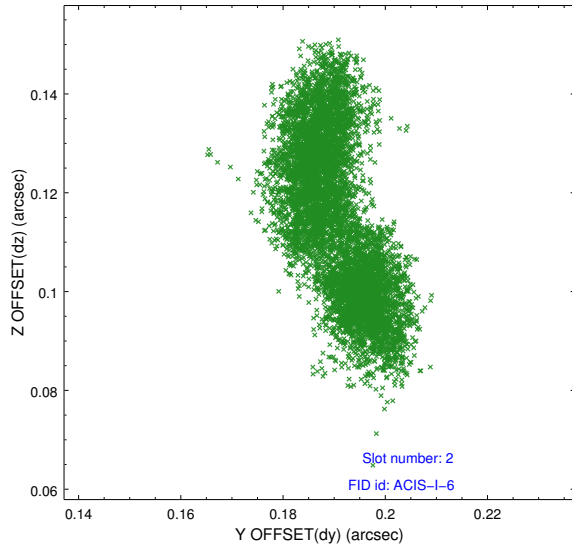
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.08.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.077744304895

A.2 Comments

One optional chip was dropped.