

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19040 - L2 Version 1
Chandra X-Ray Center

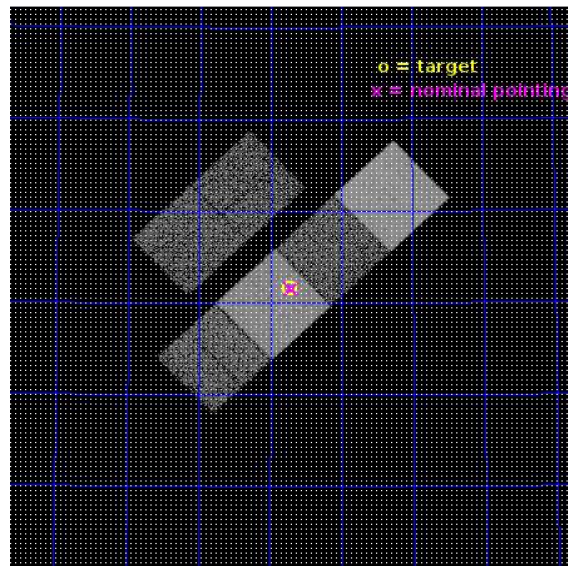
L2 Processing Date : Jun 12 2017

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1 Front

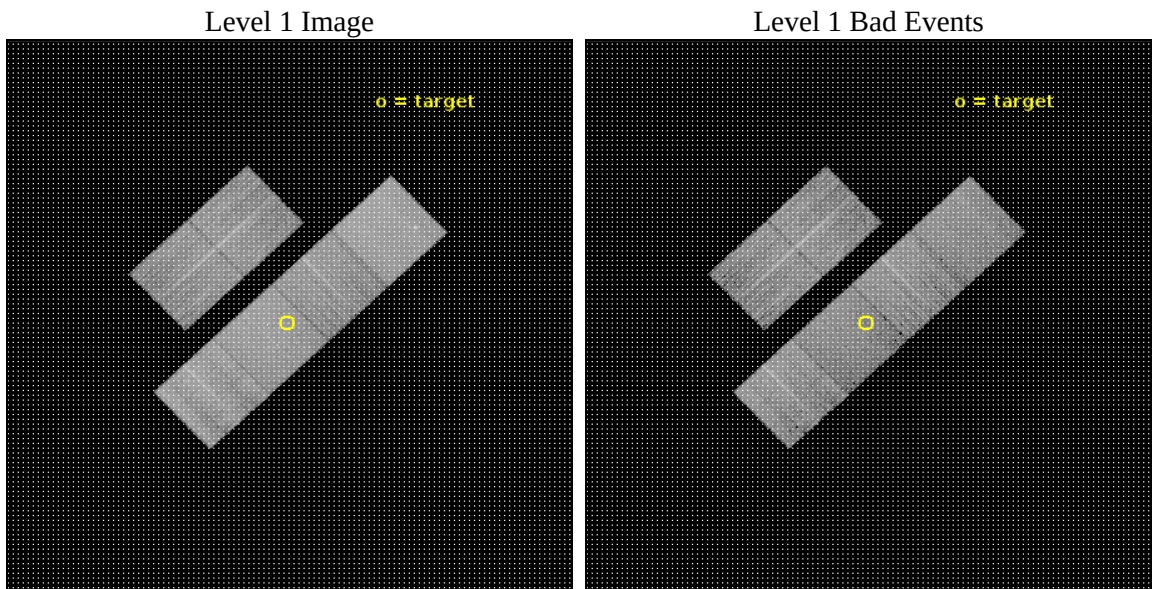
seq_num	502690	Sequence number
obs_id	19040	Observation id
title	Chandra Observations of New X-ray Supernovae	Proposal title
observer	David Pooley	Principal investigator
object	SN 2017eaw	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.684333	Observer's specified target RA [deg]
dec_targ	60.193306	Observer's specified target Dec [deg]
ra_nom	308.67583160134	Nominal RA [deg]
dec_nom	60.192368227536	Nominal Dec [deg]
roll_nom	136.37863162595	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9951.7711348534	Sum of GTIs [s]
livetime	9825.7558165067	Livetime [s]
ontime2	9951.8121747971	Sum of GTIs [s]
ontime3	9951.6480147839	Sum of GTIs [s]
ontime5	9951.7300947905	Sum of GTIs [s]
ontime6	9951.6890548468	Sum of GTIs [s]
ontime7	9951.7711348534	Sum of GTIs [s]
ontime8	9951.6069748402	Sum of GTIs [s]
l2events	123688	Number of level 2 events



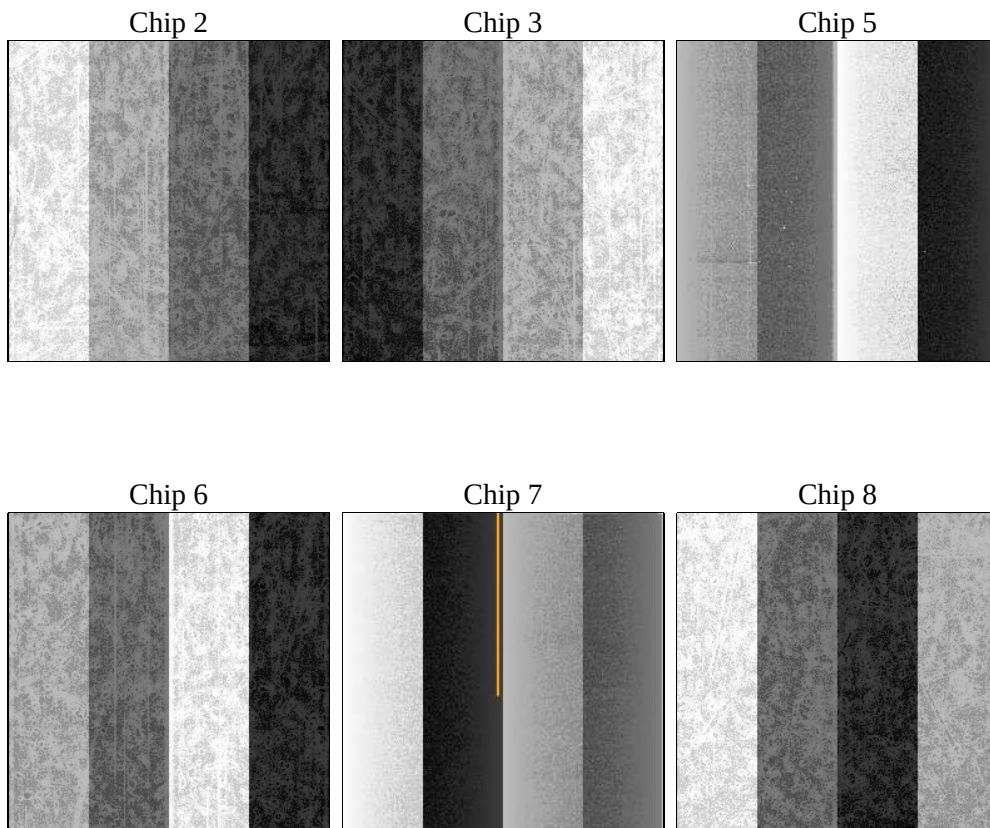
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	9951.7711348534	Sum of GTIs [s]
caldsver	4.7.4	 	ontime2	9951.8121747971	Sum of GTIs [s]
date	2017-06-12T04:21:16	Date and time of file creation	ontime3	9951.6480147839	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	9951.7300947905	Sum of GTIs [s]
			ontime6	9951.6890548468	Sum of GTIs [s]
			ontime7	9951.7711348534	Sum of GTIs [s]
			ontime8	9951.6069748402	Sum of GTIs [s]
			l1events	525428	Number of level 1 events

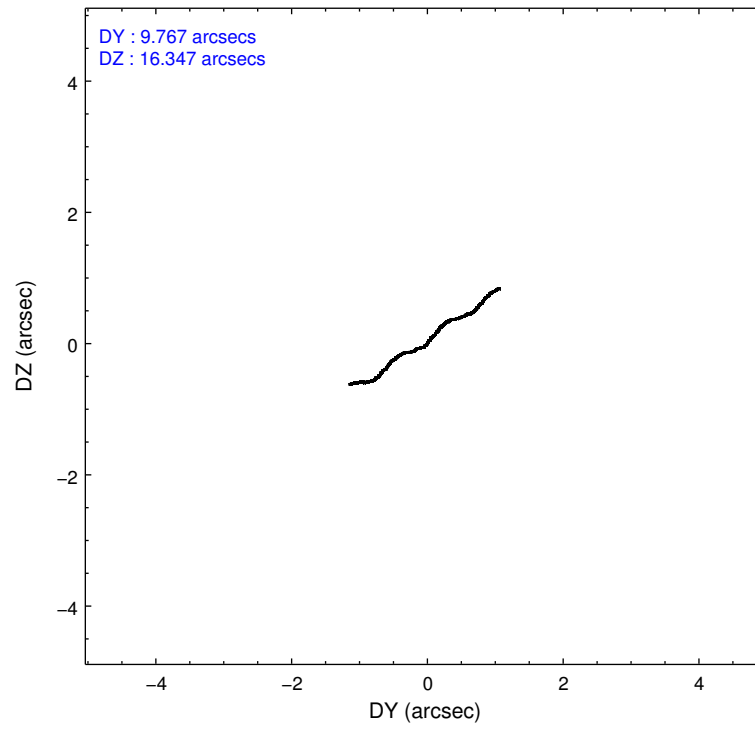
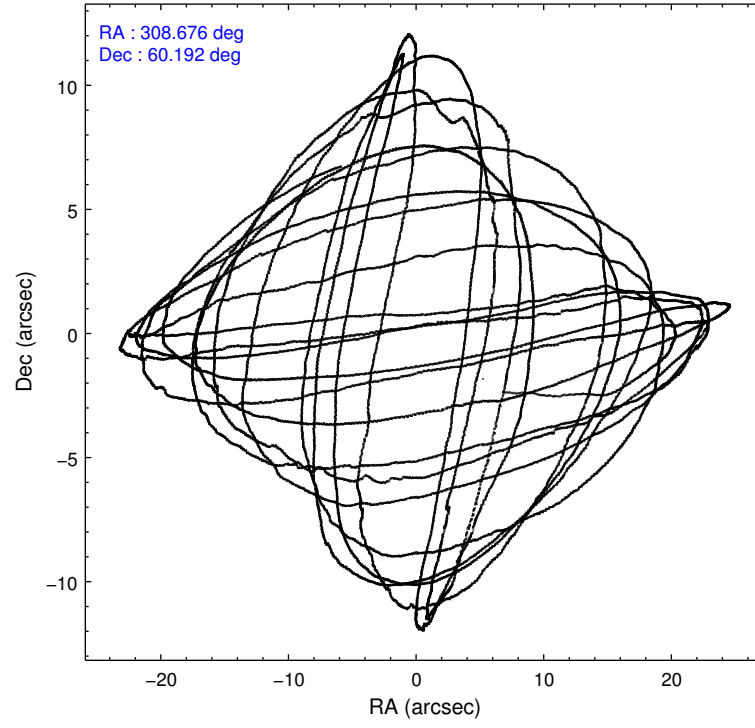
2.1.4 Events

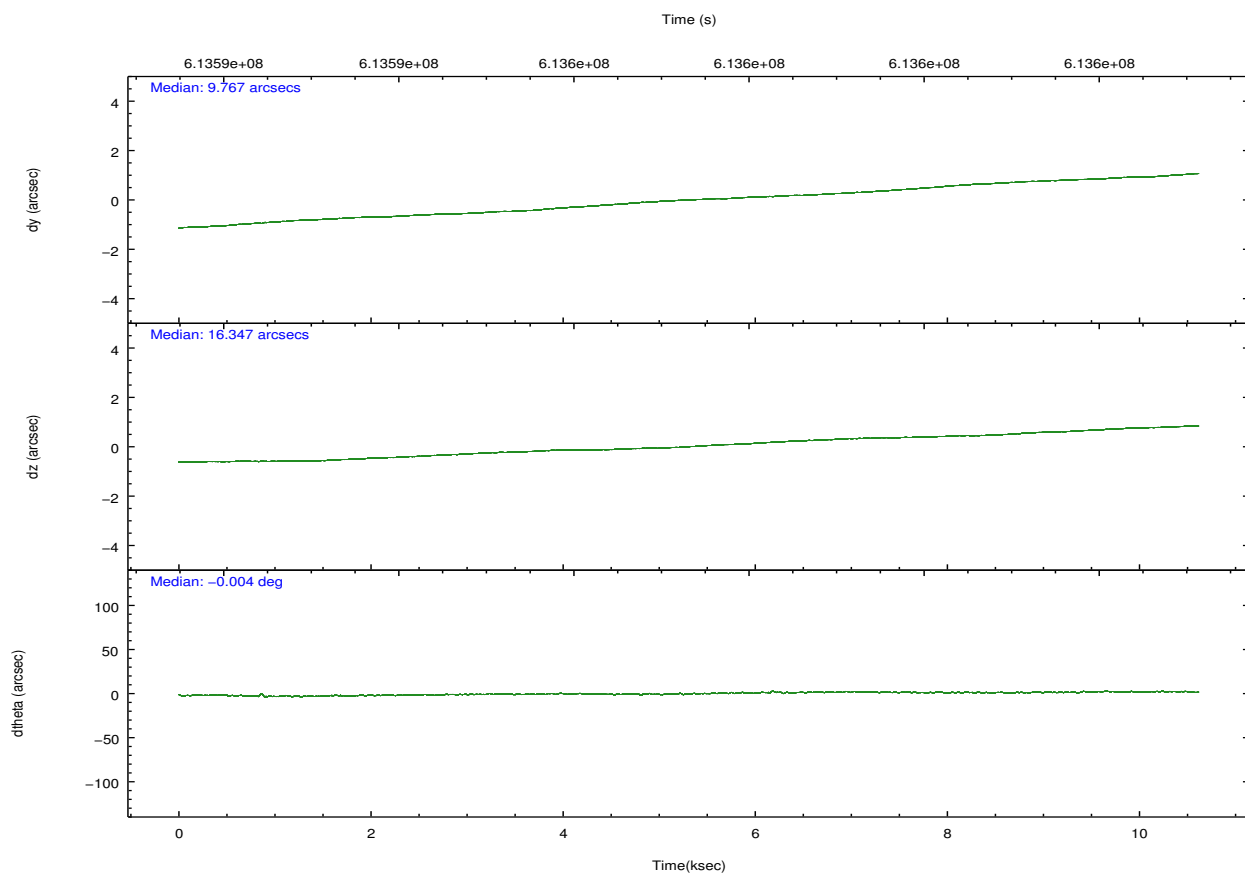
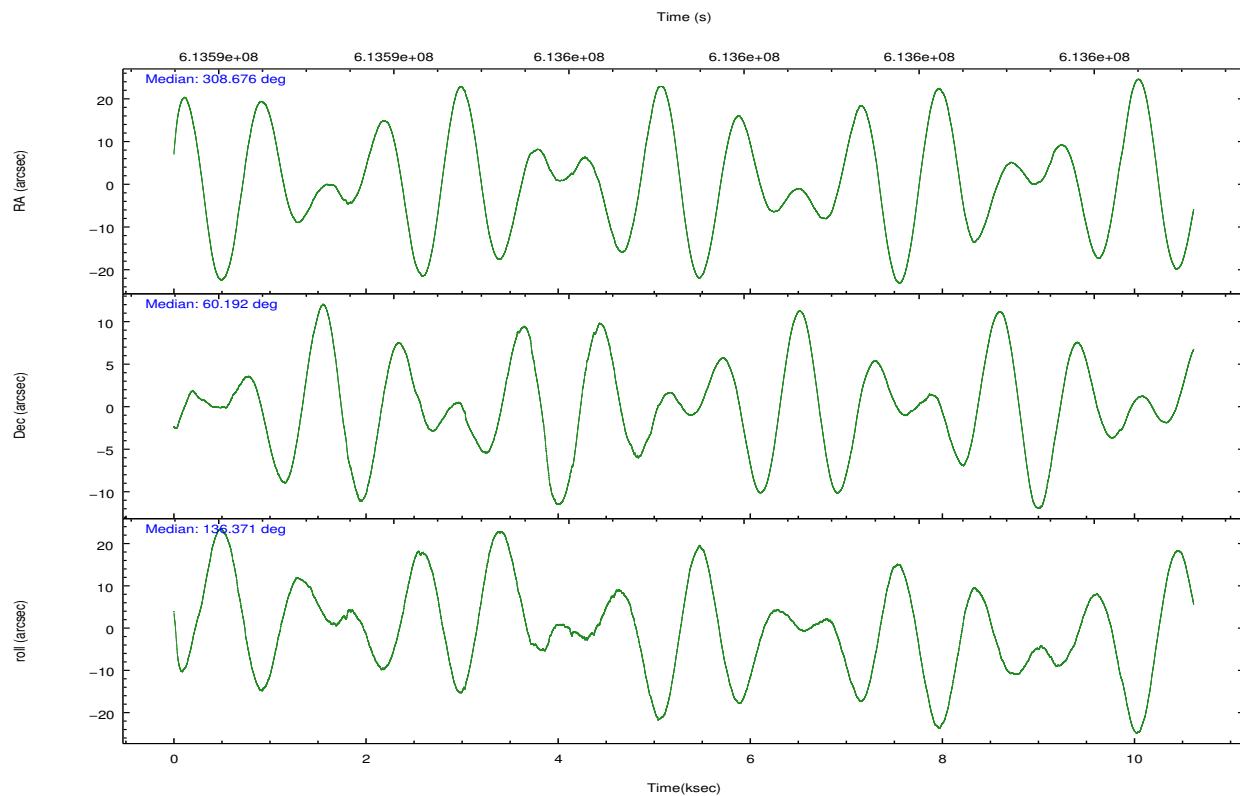
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	72507	70871	113849	76350	94412	97439	grade 0 events	2816	2768	3589	2803	3914	7831
rejected events	64602	63341	59114	67897	51506	71001		3%	3%	3%	3%	4%	8%
rejected %	89%	89%	51%	88%	54%	72%	grade 1 events	37	37	270	26	134	92
								0%	0%	0%	0%	0%	0%
							grade 2 events	2011	1593	17221	2069	9500	6243
								2%	2%	15%	2%	10%	6%
							grade 3 events	782	808	1745	770	3458	2790
								1%	1%	1%	1%	3%	2%
							grade 4 events	771	802	1658	802	3396	2618
								1%	1%	1%	1%	3%	2%
							grade 5 events	2887	3332	8023	3430	8999	5119
								3%	4%	7%	4%	9%	5%
							grade 6 events	1532	1567	30532	2014	22649	6960
								2%	2%	26%	2%	23%	7%
							grade 7 events	61671	59964	50811	64436	42362	65786
								85%	84%	44%	84%	44%	67%

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	308.729657	308.6758316013405	CCD I2 on	O1	Y
[deg] Pointing Dec	60.186229	60.19236822753633	CCD I3 on	O2	Y
[deg] Pointing Roll	136.175306	136.3786316259489	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	613592627.184000	613591444.5994	CCD S5 on	N	N
Observation start date	2017-06-11T18:22:38	2017-06-11T18:04:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	613602627.184000	613604143.32514	On-chip summing requested	N	N
Observation end date	2017-06-11T21:09:18	2017-06-11T21:35:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



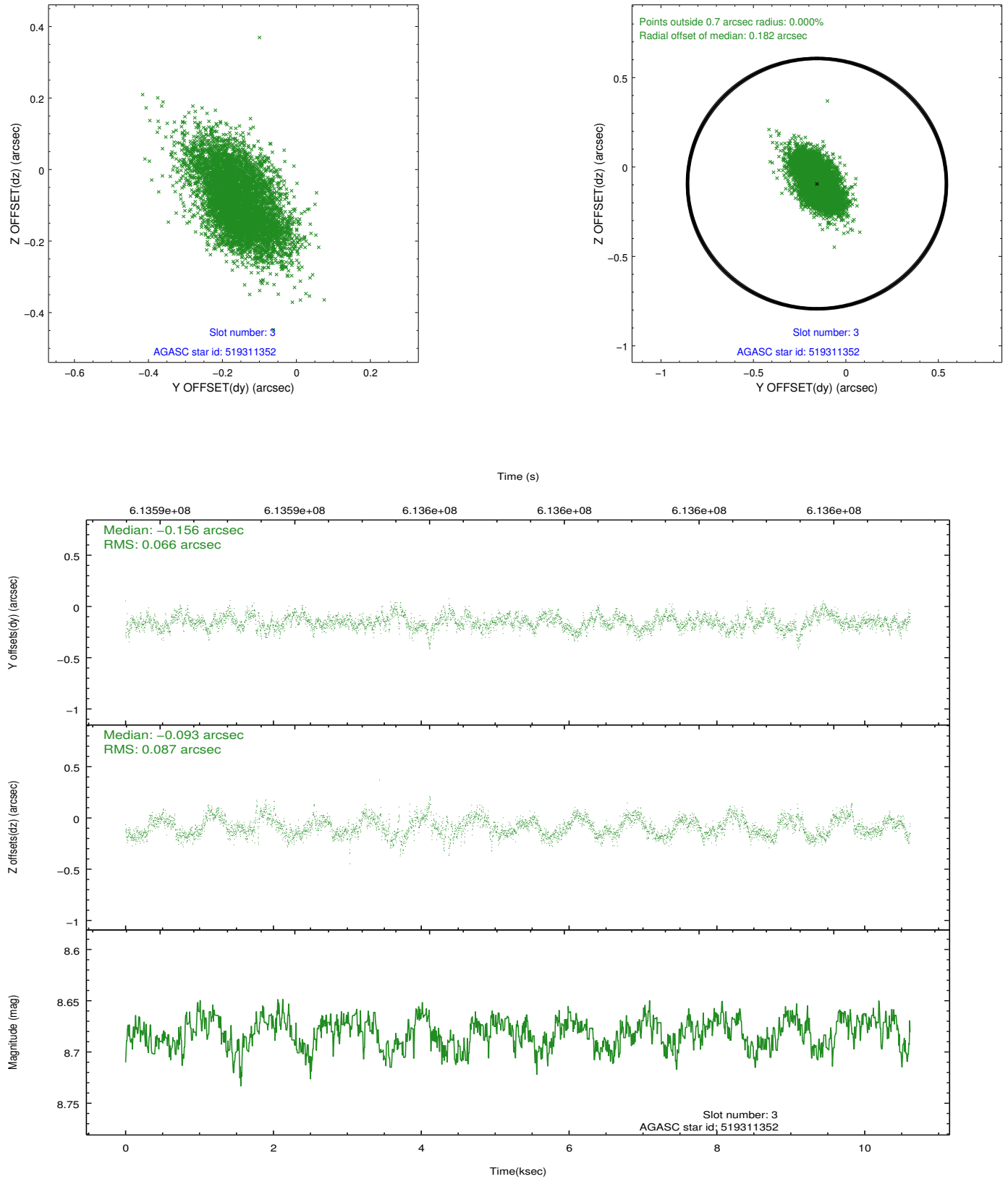


Slot Statistics

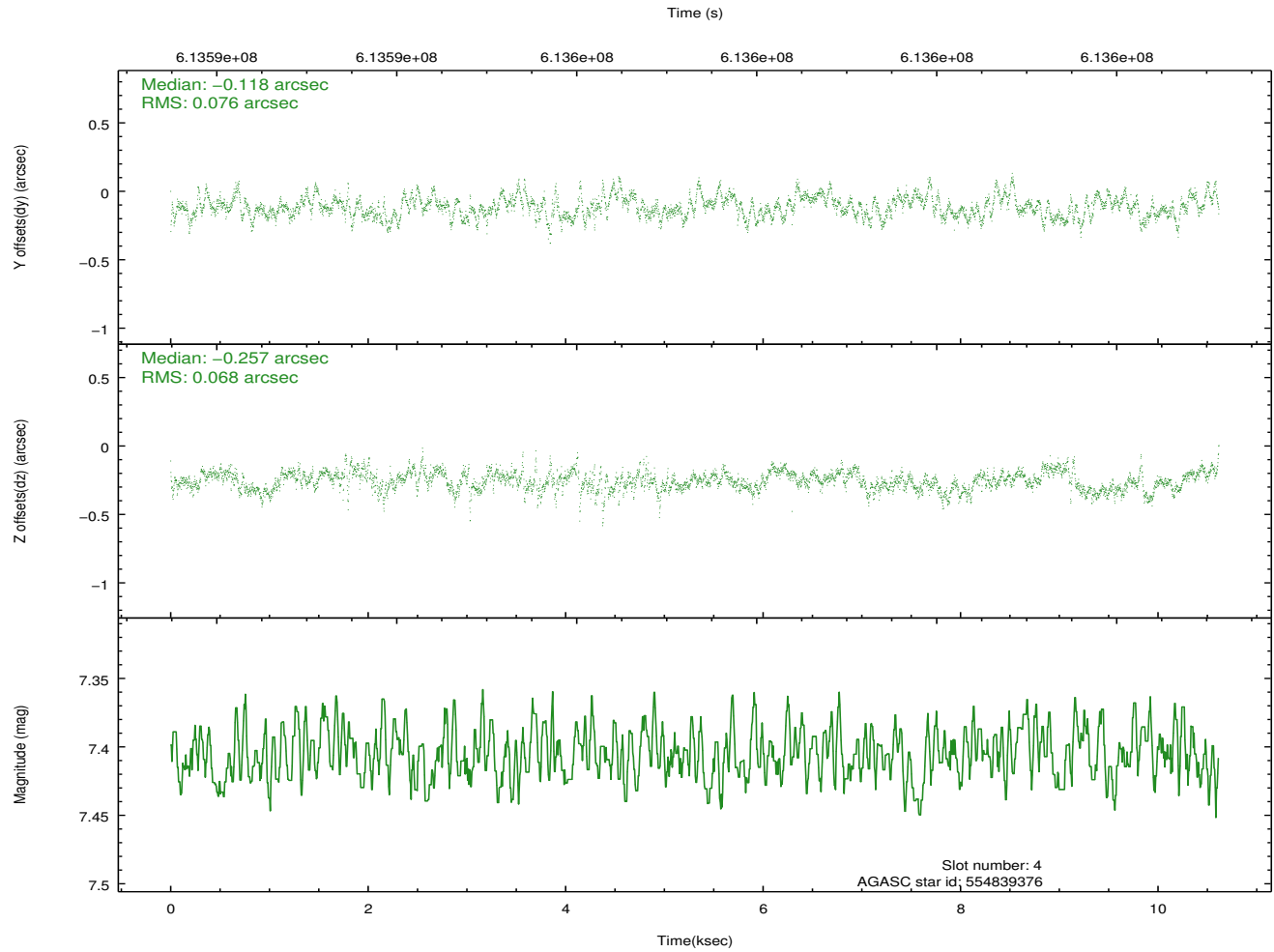
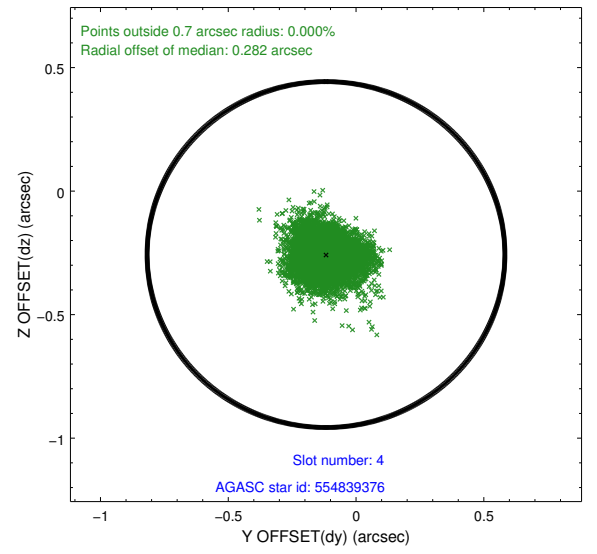
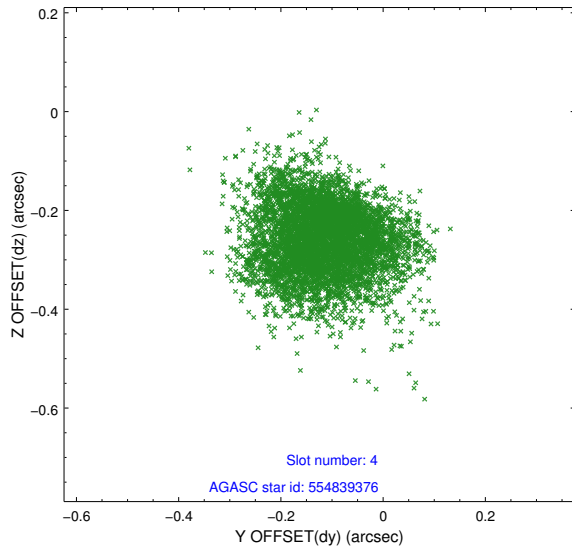
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	2590	-0.157	-0.055	0.015	0.023	0.000000	0.000000	-762.71	-1737.82
1	FID		ACIS-S-4	7.17	2590	0.390	0.091	0.012	0.019	0.000000	0.000000	2150.88	170.32
2	FID		ACIS-S-5	7.17	2590	-0.263	-0.028	0.014	0.019	0.000000	0.000000	-1815.04	164.40
3	GUIDE	used	519311352	8.68	5174	-0.156	-0.093	0.115	0.193	309.050952	59.661888	-1727.75	956.13
4	GUIDE	used	554839376	7.41	5179	-0.118	-0.257	0.108	0.174	308.018563	60.422364	1503.62	257.94
5	GUIDE	used	554842440	8.13	5178	-0.118	-0.106	0.087	0.157	307.970960	60.063321	682.53	1256.81
6	GUIDE	used	556537192	9.13	5178	0.328	0.491	0.133	0.213	309.975880	60.344309	-1192.01	-1962.01
7	GUIDE	used	519320296	9.05	5175	0.060	-0.048	0.187	0.274	308.366901	59.489372	-1257.90	2267.32

2.4 Star Slots

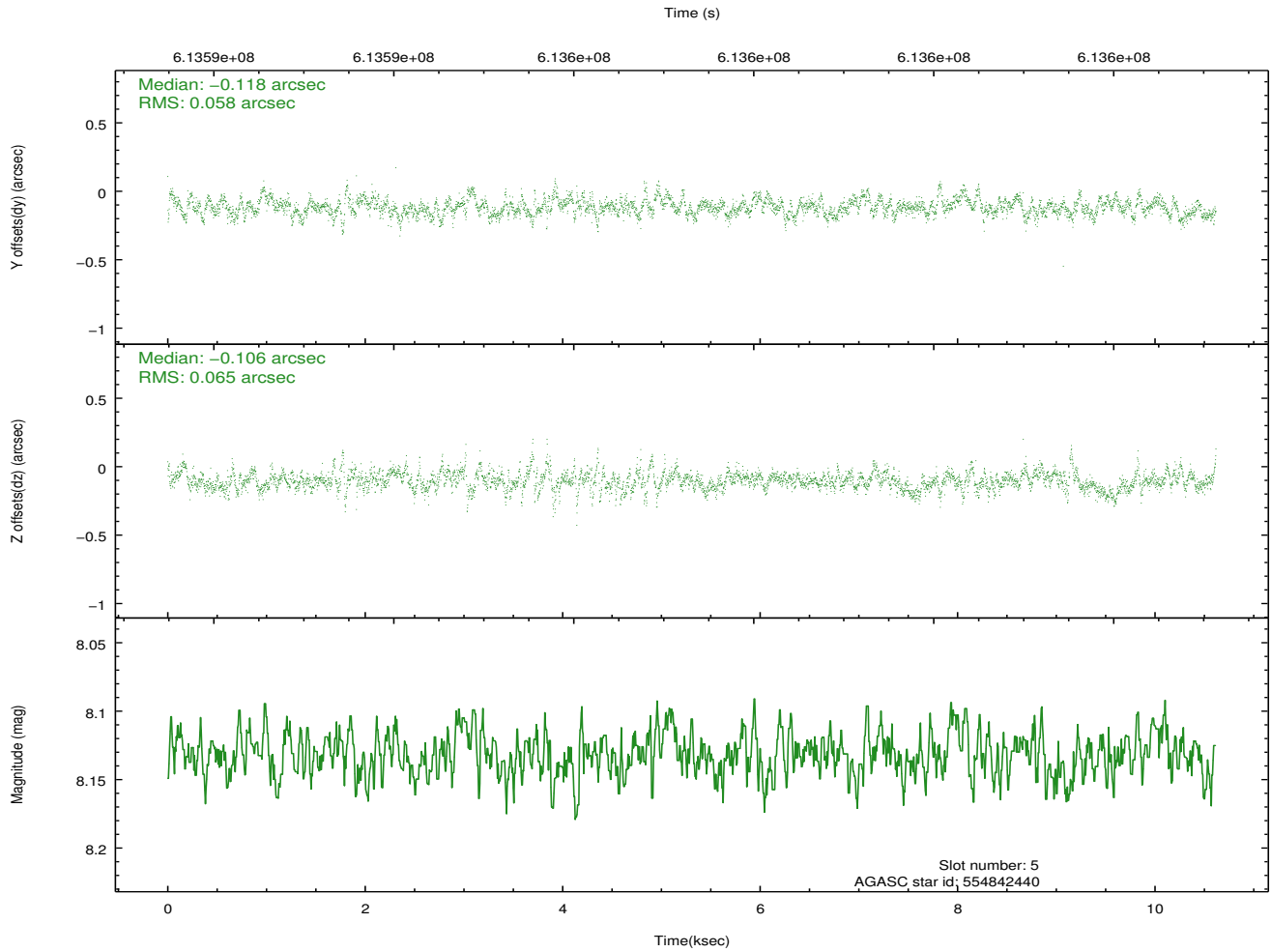
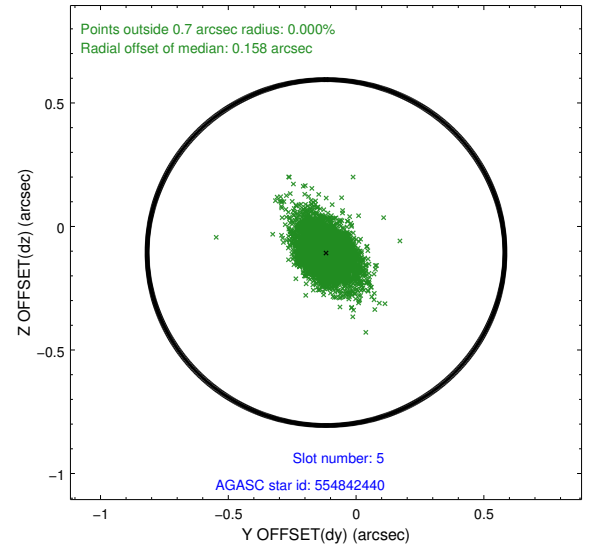
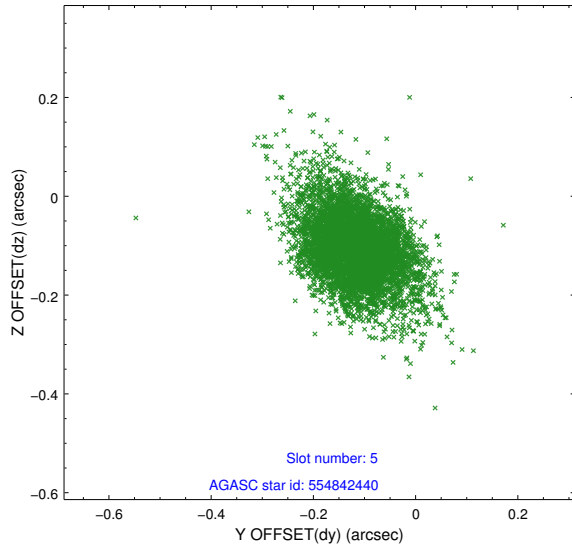
2.4.1 Slot 3



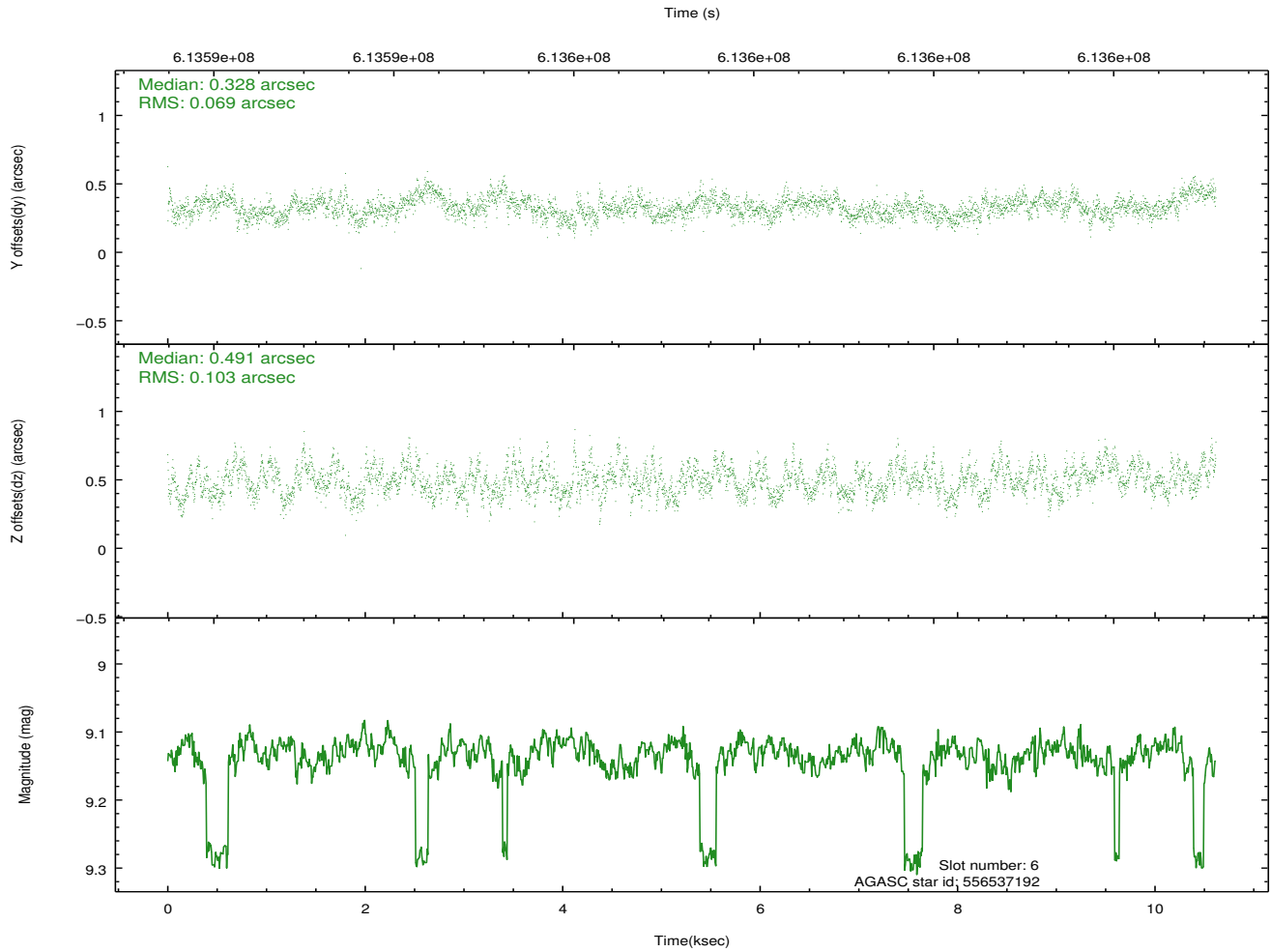
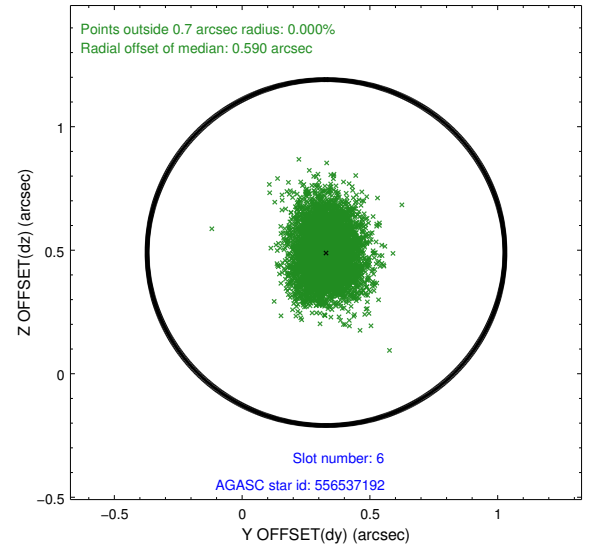
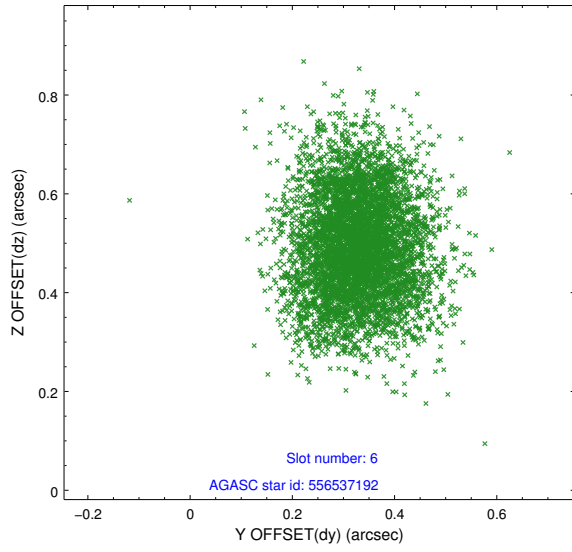
2.4.2 Slot 4



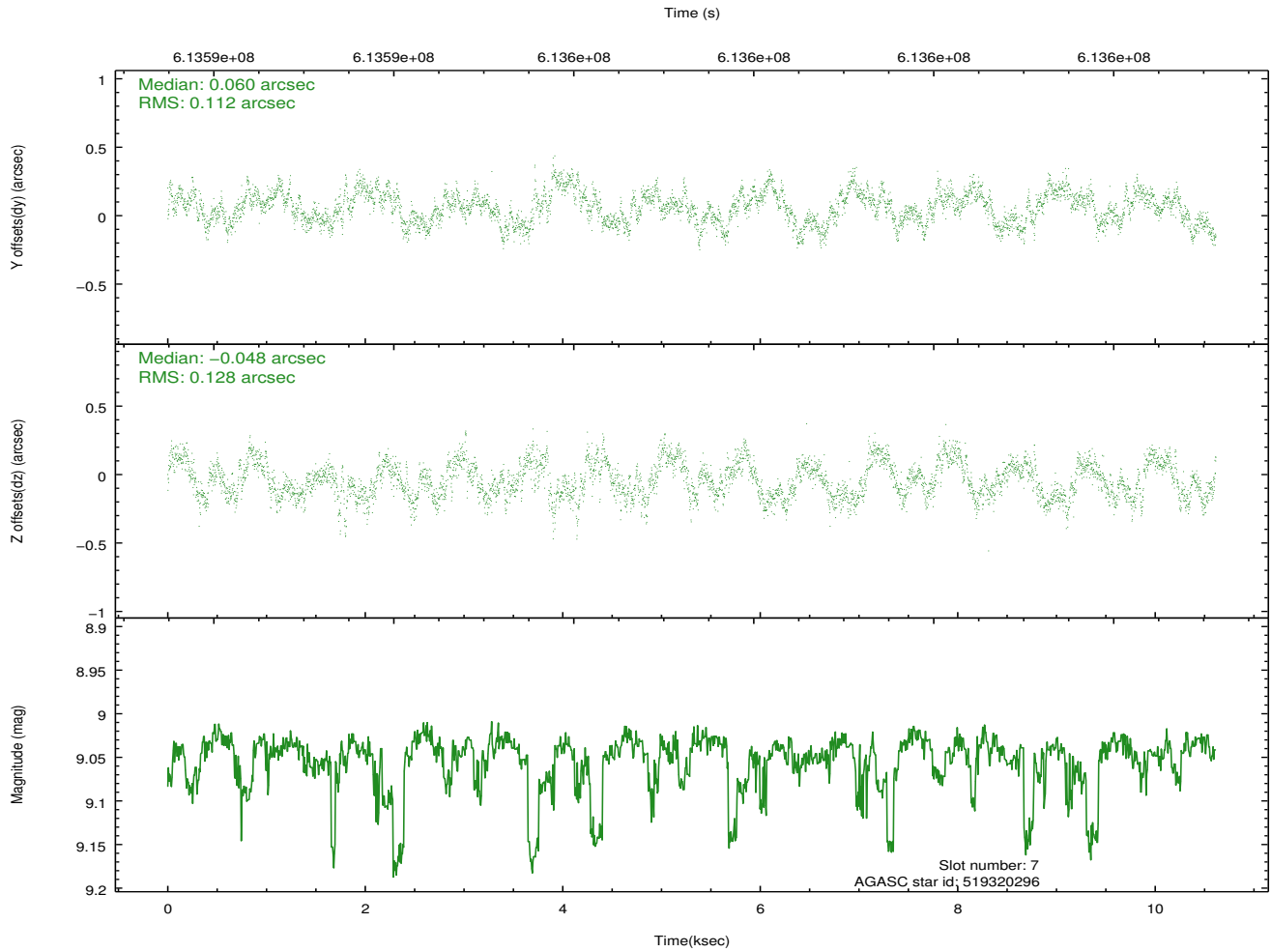
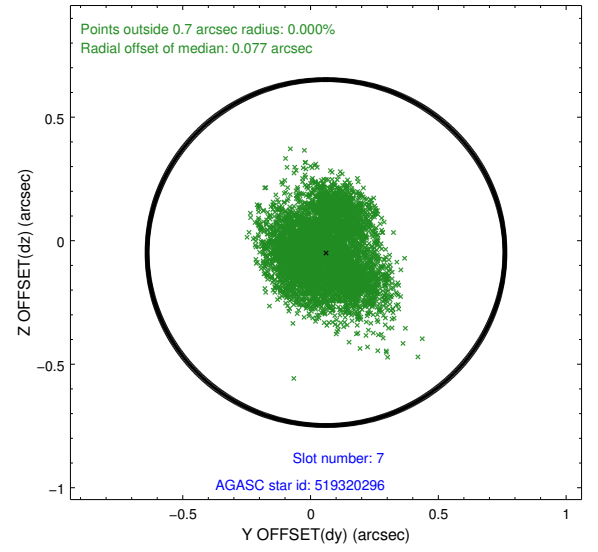
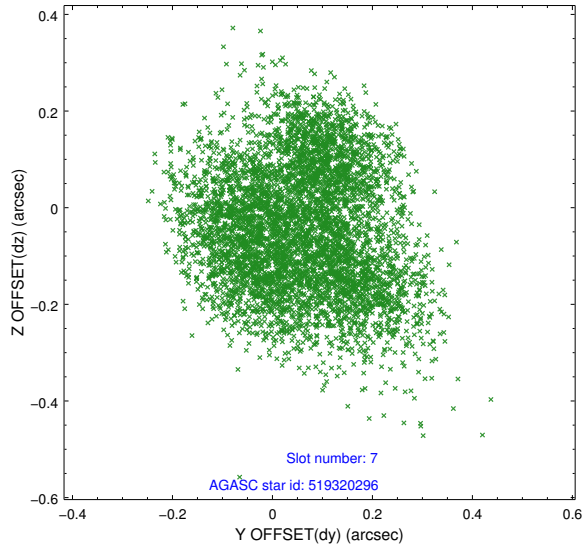
2.4.3 Slot 5



2.4.4 Slot 6

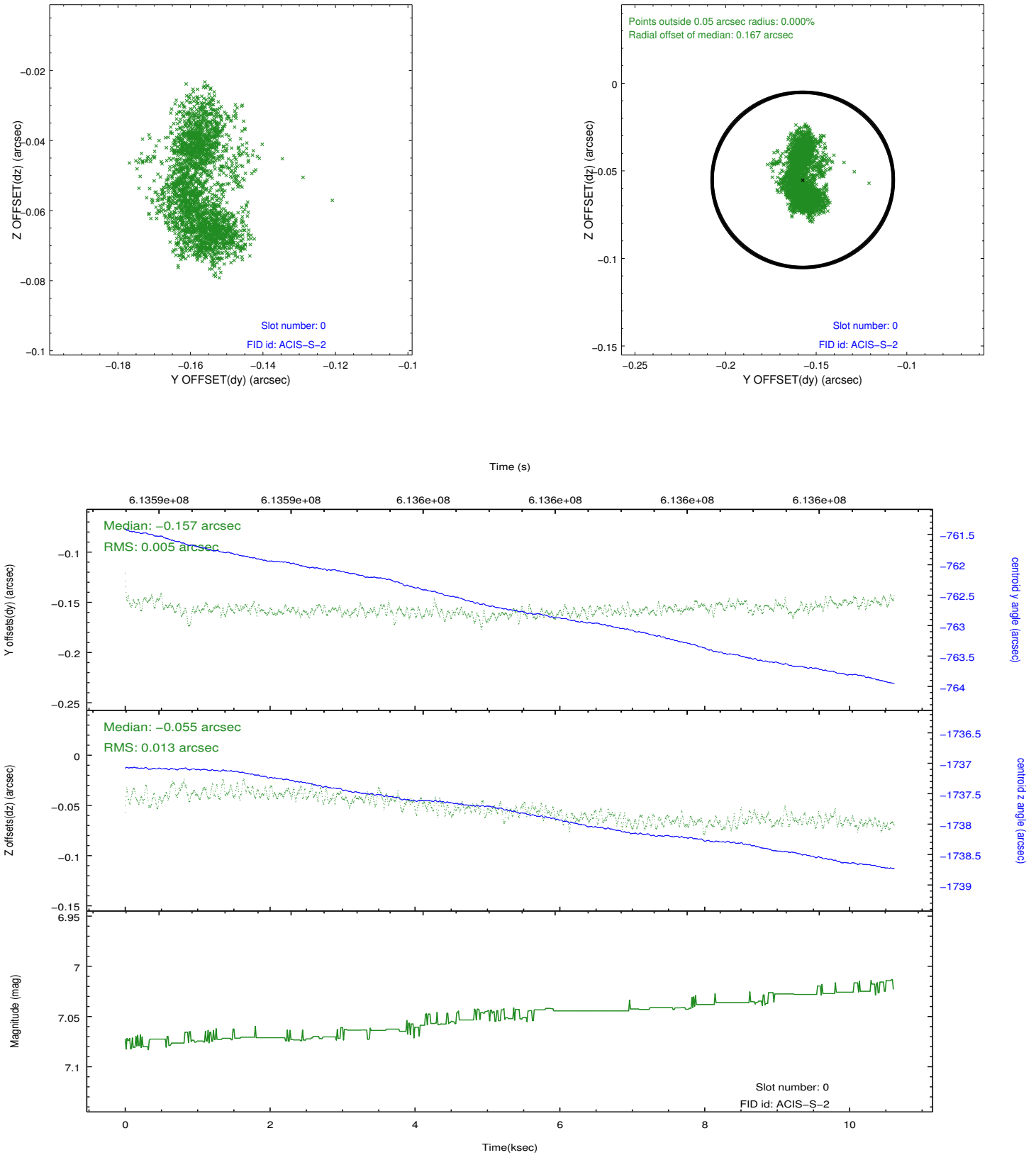


2.4.5 Slot 7

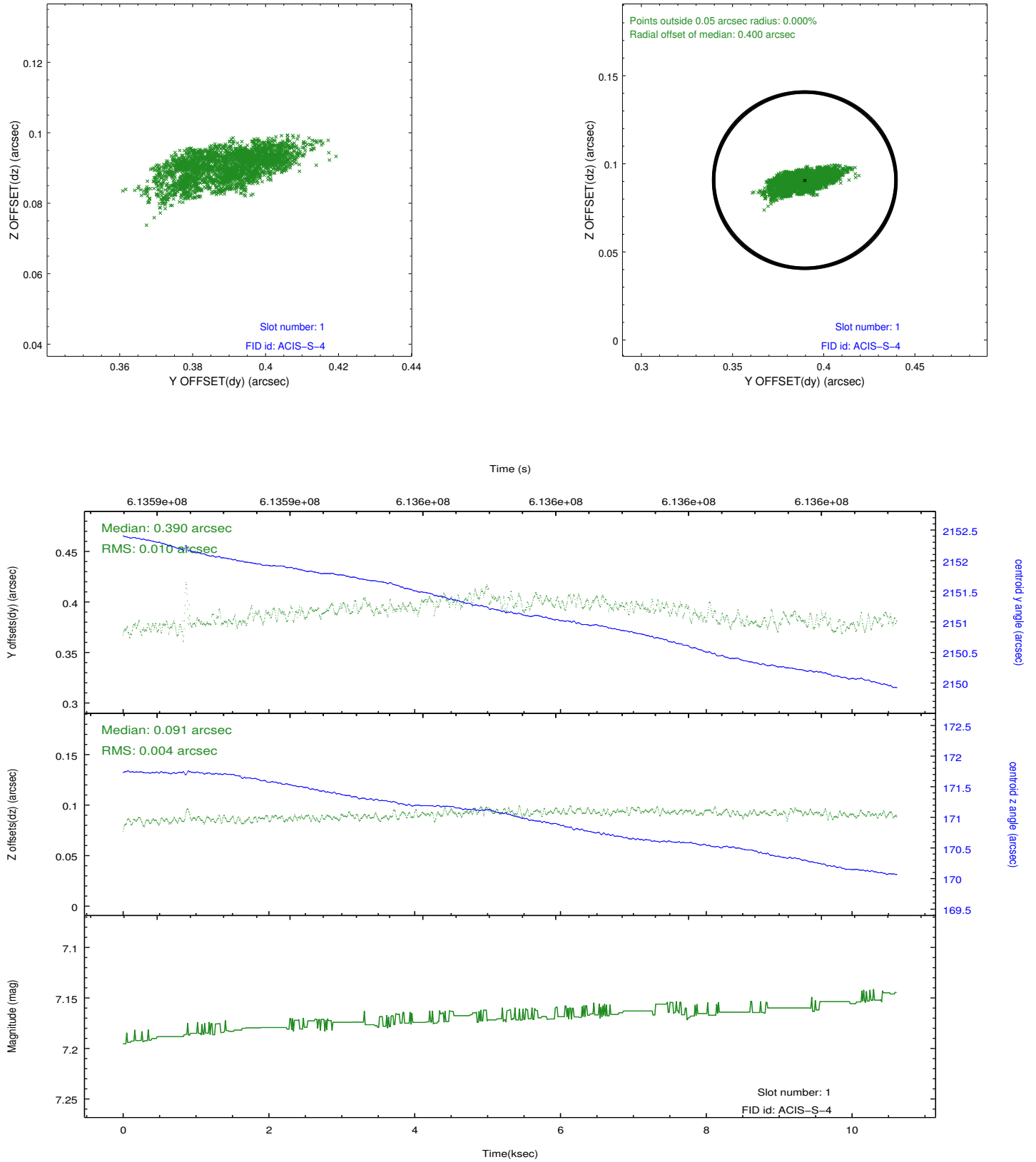


2.5 FID Slots

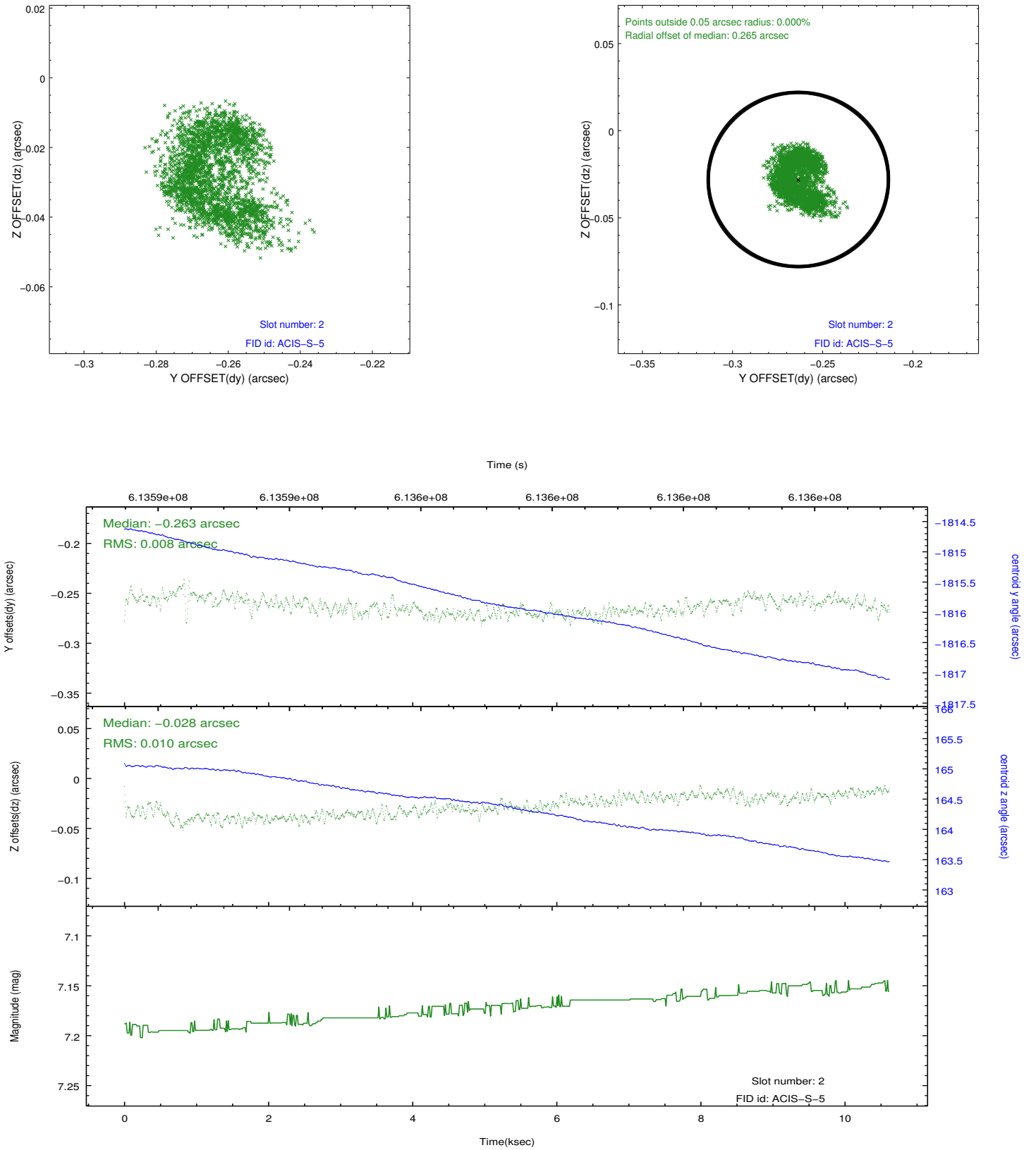
2.5.1 Slot 0



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)	2017.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9517711348534

A.2 Comments