

Information **Reports** Validation and Submission Bulk Scan Creation Bulk Scan Edit Executions

OBSERVING PROGRAM

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PROJECT CODE: 234_1
 GENERATED ID: 10008700
 PRINCIPAL INVESTIGATOR: Dr. Andreas Brunthaler <brunthal@mpifr-bonn.mpg.de>

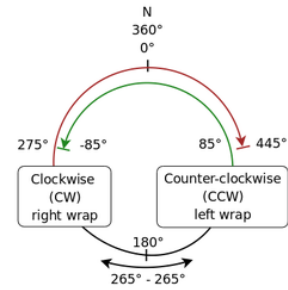
ASSUMED SCHEDULE START: LST

SCHEDULE STOP: 62789 00:00:01 LST

ASSUMED ANTENNA POSITION

AZIMUTH: 225.0d
 ELEVATION: 35.0d
 LST START RANGE: 20:00-20:00 LST
 WIND CONSTRAINTS: 100.0 m/s
 API CONSTRAINTS: 45.0 degrees

- [Instrument Configuration Summary](#)
- [Time On Source Summary](#)
- [Schedule Summary](#)



INSTRUMENT CONFIGURATION SUMMARY

Name	T _{int}	AC Freq	AC Rest/Sky	AC Summed BW	AC Coverage (%)	Req. BIBPs	# Channels	AC Doppler Vel.	AC Doppler Pos.	AC Doppler Off. (MHz)	Data Rate	
	Band	BD Freq	BD Rest/Sky	BD Summed BW	BD Coverage (%)	Total BIBPs	Min/Max Width	BD Doppler Vel.	BD Doppler Pos.	BD Doppler Off. (MHz)		
1 C wide band	3s	5.0GHz	Sky	1.024GHz	100.0	16	1024	---	---	---	4.792 MB/s	
	C	6.0GHz	Sky	1.024GHz	100.0	16	2.0MHz / 2.0MHz	---	---	---	17.252 GB/h	
Hide All Subbands Hide A0/C0 Hide B0/D0												
	Baseband	#	Bandwidth	Frequency Range	Center	Polarization	BIBPs	Channels	Ch. Width	Phased	Data Rate	Comments
	A0/C0	0	128MHz	4.488GHz - 4.616GHz	4.552GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		1	128MHz	4.616GHz - 4.744GHz	4.68GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		2	128MHz	4.744GHz - 4.872GHz	4.808GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		3	128MHz	4.872GHz - 5.0GHz	4.936GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		4	128MHz	5.0GHz - 5.128GHz	5.064GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		5	128MHz	5.128GHz - 5.256GHz	5.192GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		6	128MHz	5.256GHz - 5.384GHz	5.32GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		7	128MHz	5.384GHz - 5.512GHz	5.448GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
	B0/D0	0	128MHz	5.488GHz - 5.616GHz	5.552GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		1	128MHz	5.616GHz - 5.744GHz	5.68GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		2	128MHz	5.744GHz - 5.872GHz	5.808GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		3	128MHz	5.872GHz - 6.0GHz	5.936GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		4	128MHz	6.0GHz - 6.128GHz	6.064GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		5	128MHz	6.128GHz - 6.256GHz	6.192GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		6	128MHz	6.256GHz - 6.384GHz	6.32GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
		7	128MHz	6.384GHz - 6.512GHz	6.448GHz	Full Polarization	1	64	2.0MHz	No	0.300 MB/s	
2 Primary X band pointing	1s	8.396GHz	Sky	128.0MHz	12.5	2	128	---	---	---	1.797 MB/s	
	X	8.524GHz	Sky	128.0MHz	12.5	2	2.0MHz / 2.0MHz	---	---	---	6.470 GB/h	
Hide All Subbands Hide A0/C0 Hide B0/D0												
	Baseband	#	Bandwidth	Frequency Range	Center	Polarization	BIBPs	Channels	Ch. Width	Phased	Data Rate	Comments
	A0/C0	0	128MHz	8.332GHz - 8.46GHz	8.396GHz	Full Polarization	1	64	2.0MHz	No	0.899 MB/s	
	B0/D0	0	128MHz	8.46GHz - 8.588GHz	8.524GHz	Full Polarization	1	64	2.0MHz	No	0.899 MB/s	

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TIME ON SOURCE SUMMARY (TIME IN: LST)

Source	Scan	RA	AC Vel.	AC Freq.	Min HA	Min PA	#
Epoch	Instrument Cfg.	Dec	BD Vel.	BD Freq.	Max HA	Max PA	Total Time
J1733-1304	Dummy	17h 33m 2.70579s	---	5.0GHz	2.45	35.4d	3
J2000	(1) C wide band	-13d 4' 49.5482"	---	6.0GHz	2.70	38.0d	00:04:20
J1733-1304	Dummy	17h 33m 2.70579s	---	8.396GHz	2.47	35.6d	2
J2000	(2) Primary X band pointing	-13d 4' 49.5482"	---	8.524GHz	2.63	37.4d	00:09:47
J0137+3309	J0137+3309	1h 37m 41.29943s	---	8.396GHz	-5.38	-79.3d	4
J2000	(2) Primary X band pointing	33d 9' 35.1330"	---	8.524GHz	-2.06	-64.2d	00:11:21
J0137+3309	J0137+3309	1h 37m 41.29943s	---	5.0GHz	-5.26	-80.4d	15
J2000	(1) C wide band	33d 9' 35.1330"	---	6.0GHz	-1.71	-64.9d	00:14:11
P1	P1	1h 31m 17.54839s	---	5.0GHz	-5.13	-70.8d	2
J2000	(1) C wide band	30d 3' 37.0"	---	6.0GHz	-3.40	-64.1d	00:01:05
P14	P14	1h 31m 31.49853s	---	5.0GHz	-5.12	-71.0d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-3.39	-64.2d	00:01:06
P3	P3	1h 31m 17.54839s	---	5.0GHz	-5.11	-71.1d	2
J2000	(1) C wide band	30d 15' 37.0"	---	6.0GHz	-3.37	-64.3d	00:01:05
P16	P16	1h 31m 31.49853s	---	5.0GHz	-5.10	-71.2d	2

TIME ON SOURCE SUMMARY (TIME IN: LST)							
Source	Scan	RA	AC Vel.	AC Freq.	Min HA	Min PA	#
Epoch	Instrument Cfg.	Dec	BD Vel.	BD Freq.	Max HA	Max PA	Total Time
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-3.37	-64.4d	00:01:06
P15	P15	1h 31m 45.44868s	---	5.0GHz	-5.09	-71.1d	2
J2000	(1) C wide band	30d 15' 37.0"	---	6.0GHz	-3.36	-64.4d	00:01:05
P28	P28	1h 31m 59.39883s	---	5.0GHz	-5.09	-71.3d	2
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-3.35	-64.5d	00:01:06
P27	P27	1h 32m 13.34897s	---	5.0GHz	-5.08	-71.2d	2
J2000	(1) C wide band	30d 15' 37.0"	---	6.0GHz	-3.35	-64.5d	00:01:05
P40	P40	1h 32m 27.29912s	---	5.0GHz	-5.07	-71.3d	2
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-3.34	-64.5d	00:01:06
P39	P39	1h 32m 41.24927s	---	5.0GHz	-5.06	-71.2d	2
J2000	(1) C wide band	30d 15' 37.0"	---	6.0GHz	-3.33	-64.5d	00:01:05
P52	P52	1h 32m 55.19941s	---	5.0GHz	-5.06	-71.4d	2
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-3.32	-64.6d	00:01:06
P51	P51	1h 33m 9.14956s	---	5.0GHz	-5.05	-71.3d	2
J2000	(1) C wide band	30d 15' 37.0"	---	6.0GHz	-3.32	-64.6d	00:01:05
P64	P64	1h 33m 23.09971s	---	5.0GHz	-5.04	-71.4d	2
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-3.31	-64.7d	00:01:06
P63	P63	1h 33m 37.04985s	---	5.0GHz	-5.04	-71.3d	2
J2000	(1) C wide band	30d 15' 37.0"	---	6.0GHz	-3.30	-64.7d	00:01:05
P76	P76	1h 33m 51.0s	---	5.0GHz	-5.03	-71.4d	2
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-3.30	-64.7d	00:01:06
P75	P75	1h 34m 4.95015s	---	5.0GHz	-5.02	-71.4d	2
J2000	(1) C wide band	30d 15' 37.0"	---	6.0GHz	-3.29	-64.7d	00:01:05
P88	P88	1h 34m 18.90029s	---	5.0GHz	-5.01	-71.5d	2
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-3.28	-64.8d	00:01:06
P87	P87	1h 34m 32.85044s	---	5.0GHz	-5.01	-71.4d	2
J2000	(1) C wide band	30d 15' 37.0"	---	6.0GHz	-3.27	-64.8d	00:01:05
P100	P100	1h 34m 46.80059s	---	5.0GHz	-5.00	-71.5d	2
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-3.27	-64.9d	00:01:06
P99	P99	1h 35m 0.75073s	---	5.0GHz	-4.99	-71.4d	2
J2000	(1) C wide band	30d 15' 37.0"	---	6.0GHz	-3.26	-64.9d	00:01:05
P112	P112	1h 35m 14.70088s	---	5.0GHz	-4.99	-71.6d	2
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-3.25	-64.9d	00:01:06
P111	P111	1h 35m 28.65103s	---	5.0GHz	-4.98	-71.5d	2
J2000	(1) C wide band	30d 15' 37.0"	---	6.0GHz	-3.24	-64.9d	00:01:05
P124	P124	1h 35m 42.60117s	---	5.0GHz	-4.97	-71.6d	2
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-3.24	-65.0d	00:01:06
P123	P123	1h 35m 56.55132s	---	5.0GHz	-4.96	-71.5d	2
J2000	(1) C wide band	30d 15' 37.0"	---	6.0GHz	-3.23	-65.0d	00:01:05
P134	P134	1h 36m 10.50147s	---	5.0GHz	-4.96	-71.7d	2
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-3.22	-65.1d	00:01:06
P125	P125	1h 35m 56.55132s	---	5.0GHz	-4.94	-71.8d	2
J2000	(1) C wide band	30d 27' 37.0"	---	6.0GHz	-3.21	-65.2d	00:01:05
P126	P126	1h 35m 42.60117s	---	5.0GHz	-4.93	-72.0d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-3.19	-65.3d	00:01:05
P113	P113	1h 35m 28.65103s	---	5.0GHz	-4.91	-71.9d	2
J2000	(1) C wide band	30d 27' 37.0"	---	6.0GHz	-3.18	-65.3d	00:01:06
P114	P114	1h 35m 14.70088s	---	5.0GHz	-4.90	-72.0d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-3.16	-65.5d	00:01:05
P101	P101	1h 35m 0.75073s	---	5.0GHz	-4.88	-72.0d	2
J2000	(1) C wide band	30d 27' 37.0"	---	6.0GHz	-3.15	-65.5d	00:01:06
P102	P102	1h 34m 46.80059s	---	5.0GHz	-4.87	-73.9d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-2.33	-65.6d	00:01:05
P138	P138	1h 36m 10.50147s	---	5.0GHz	-4.86	-71.6d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-3.49	-65.9d	00:01:05

TIME ON SOURCE SUMMARY (TIME IN: LST)							
Source	Scan	RA	AC Vel.	AC Freq.	Min HA	Min PA	#
Epoch	Instrument Cfg.	Dec	BD Vel.	BD Freq.	Max HA	Max PA	Total Time
P131	P131	1h 35m 56.55132s	---	5.0GHz	-4.84	-73.0d	2
J2000	(1) C wide band	31d 3' 37.0"	---	6.0GHz	-3.05	-66.0d	00:01:06
P130	P130	1h 35m 42.60117s	---	5.0GHz	-4.83	-72.9d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-3.03	-66.0d	00:01:05
P119	P119	1h 35m 28.65103s	---	5.0GHz	-4.81	-73.1d	2
J2000	(1) C wide band	31d 3' 37.0"	---	6.0GHz	-3.02	-66.1d	00:01:05
P118	P118	1h 35m 14.70088s	---	5.0GHz	-4.80	-73.0d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-3.00	-66.1d	00:01:05
P107	P107	1h 35m 0.75073s	---	5.0GHz	-4.78	-73.1d	2
J2000	(1) C wide band	31d 3' 37.0"	---	6.0GHz	-2.99	-66.3d	00:01:05
P106	P106	1h 34m 46.80059s	---	5.0GHz	-4.77	-73.1d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-2.97	-66.3d	00:01:05
P95	P95	1h 34m 32.85044s	---	5.0GHz	-4.75	-73.2d	2
J2000	(1) C wide band	31d 3' 37.0"	---	6.0GHz	-2.96	-66.4d	00:01:05
P94	P94	1h 34m 18.90029s	---	5.0GHz	-4.74	-73.1d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-2.94	-66.4d	00:01:05
P83	P83	1h 34m 4.95015s	---	5.0GHz	-4.72	-73.3d	2
J2000	(1) C wide band	31d 3' 37.0"	---	6.0GHz	-2.93	-66.5d	00:01:05
P82	P82	1h 33m 51.0s	---	5.0GHz	-4.71	-73.2d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-2.91	-66.5d	00:01:05
P71	P71	1h 33m 37.04985s	---	5.0GHz	-4.69	-73.4d	2
J2000	(1) C wide band	31d 3' 37.0"	---	6.0GHz	-2.90	-66.7d	00:01:05
P70	P70	1h 33m 23.09971s	---	5.0GHz	-4.68	-73.3d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-2.88	-66.7d	00:01:05
P59	P59	1h 33m 9.14956s	---	5.0GHz	-4.66	-73.5d	2
J2000	(1) C wide band	31d 3' 37.0"	---	6.0GHz	-2.87	-66.8d	00:01:05
P58	P58	1h 32m 55.19941s	---	5.0GHz	-4.65	-73.4d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-2.85	-66.8d	00:01:05
P47	P47	1h 32m 41.24927s	---	5.0GHz	-4.63	-73.6d	2
J2000	(1) C wide band	31d 3' 37.0"	---	6.0GHz	-2.84	-66.9d	00:01:05
P46	P46	1h 32m 27.29912s	---	5.0GHz	-4.62	-73.5d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-2.82	-66.9d	00:01:05
P35	P35	1h 32m 13.34897s	---	5.0GHz	-4.60	-73.6d	2
J2000	(1) C wide band	31d 3' 37.0"	---	6.0GHz	-2.81	-67.1d	00:01:05
P34	P34	1h 31m 59.39883s	---	5.0GHz	-4.59	-73.5d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-2.79	-67.1d	00:01:05
P23	P23	1h 31m 45.44868s	---	5.0GHz	-4.57	-73.7d	2
J2000	(1) C wide band	31d 3' 37.0"	---	6.0GHz	-2.78	-67.2d	00:01:05
P22	P22	1h 31m 31.49853s	---	5.0GHz	-4.56	-73.6d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-2.76	-67.2d	00:01:05
P11	P11	1h 31m 17.54839s	---	5.0GHz	-4.54	-73.8d	2
J2000	(1) C wide band	31d 3' 37.0"	---	6.0GHz	-2.75	-67.3d	00:01:05
P10	P10	1h 31m 3.59824s	---	5.0GHz	-4.53	-73.7d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-2.73	-67.3d	00:01:05
P9	P9	1h 31m 17.54839s	---	5.0GHz	-4.52	-73.9d	2
J2000	(1) C wide band	30d 51' 37.0"	---	6.0GHz	-2.59	-67.3d	00:01:05
P20	P20	1h 31m 31.49853s	---	5.0GHz	-4.51	-73.7d	2
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.59	-67.3d	00:01:05
P21	P21	1h 31m 45.44868s	---	5.0GHz	-4.51	-73.9d	2
J2000	(1) C wide band	30d 51' 37.0"	---	6.0GHz	-2.58	-67.4d	00:01:05
P32	P32	1h 31m 59.39883s	---	5.0GHz	-4.50	-73.8d	2
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.57	-67.4d	00:01:05
P33	P33	1h 32m 13.34897s	---	5.0GHz	-4.49	-73.9d	2
J2000	(1) C wide band	30d 51' 37.0"	---	6.0GHz	-2.56	-67.4d	00:01:05
P44	P44	1h 32m 27.29912s	---	5.0GHz	-4.48	-73.8d	2

TIME ON SOURCE SUMMARY (TIME IN: LST)							
Source	Scan	RA	AC Vel.	AC Freq.	Min HA	Min PA	#
Epoch	Instrument Cfg.	Dec	BD Vel.	BD Freq.	Max HA	Max PA	Total Time
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.56	-67.4d	00:01:05
P45	P45	1h 32m 41.24927s	---	5.0GHz	-4.48	-74.0d	2
J2000	(1) C wide band	30d 51' 37.0"	---	6.0GHz	-2.55	-67.5d	00:01:05
P132	P132	1h 35m 42.60117s	---	5.0GHz	-4.50	-73.1d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-3.06	-67.6d	00:01:05
P120	P120	1h 35m 14.70088s	---	5.0GHz	-4.48	-73.9d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-2.77	-67.7d	00:01:05
P108	P108	1h 34m 46.80059s	---	5.0GHz	-4.46	-73.9d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-2.75	-67.8d	00:01:05
P96	P96	1h 34m 18.90029s	---	5.0GHz	-4.44	-74.0d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-2.73	-67.9d	00:01:05
P84	P84	1h 33m 51.0s	---	5.0GHz	-4.42	-74.0d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-2.71	-67.9d	00:01:05
P72	P72	1h 33m 23.09971s	---	5.0GHz	-4.40	-74.1d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-2.70	-68.0d	00:01:05
P60	P60	1h 32m 55.19941s	---	5.0GHz	-4.38	-74.1d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-2.68	-68.1d	00:01:05
P48	P48	1h 32m 27.29912s	---	5.0GHz	-4.36	-74.2d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-2.66	-68.2d	00:01:05
P36	P36	1h 31m 59.39883s	---	5.0GHz	-4.34	-74.2d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-2.64	-68.3d	00:01:05
P24	P24	1h 31m 31.49853s	---	5.0GHz	-4.33	-74.3d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-2.62	-68.4d	00:01:05
P12	P12	1h 31m 3.59824s	---	5.0GHz	-4.31	-74.3d	2
J2000	(1) C wide band	31d 9' 37.0"	---	6.0GHz	-2.60	-68.4d	00:01:05
P8	P8	1h 31m 3.59824s	---	5.0GHz	-4.30	-74.5d	2
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.07	-68.2d	00:01:05
P7	P7	1h 31m 17.54839s	---	5.0GHz	-4.29	-74.3d	2
J2000	(1) C wide band	30d 39' 37.0"	---	6.0GHz	-2.08	-68.2d	00:01:05
P18	P18	1h 31m 31.49853s	---	5.0GHz	-4.28	-74.1d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-2.12	-68.1d	00:01:05
P5	P5	1h 31m 17.54839s	---	5.0GHz	-4.27	-73.9d	2
J2000	(1) C wide band	30d 27' 37.0"	---	6.0GHz	-2.10	-68.1d	00:01:05
P6	P6	1h 31m 3.59824s	---	5.0GHz	-4.25	-74.1d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-2.09	-68.3d	00:01:05
P4	P4	1h 31m 3.59824s	---	5.0GHz	-4.24	-73.4d	2
J2000	(1) C wide band	30d 21' 37.0"	---	6.0GHz	-1.64	-68.2d	00:01:05
P2	P2	1h 31m 3.59824s	---	5.0GHz	-4.23	-72.9d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-1.63	-68.1d	00:01:05
P13	P13	1h 31m 45.44868s	---	5.0GHz	-4.23	-72.8d	2
J2000	(1) C wide band	30d 3' 37.0"	---	6.0GHz	-1.68	-68.0d	00:01:05
P26	P26	1h 31m 59.39883s	---	5.0GHz	-4.22	-73.0d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-1.70	-68.1d	00:01:05
P25	P25	1h 32m 13.34897s	---	5.0GHz	-4.22	-72.8d	2
J2000	(1) C wide band	30d 3' 37.0"	---	6.0GHz	-1.71	-68.0d	00:01:05
P38	P38	1h 32m 27.29912s	---	5.0GHz	-4.21	-73.1d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-1.73	-68.1d	00:01:05
P37	P37	1h 32m 41.24927s	---	5.0GHz	-4.20	-72.9d	2
J2000	(1) C wide band	30d 3' 37.0"	---	6.0GHz	-1.74	-68.1d	00:01:05
P50	P50	1h 32m 55.19941s	---	5.0GHz	-4.19	-73.1d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-1.76	-68.2d	00:01:05
P49	P49	1h 33m 9.14956s	---	5.0GHz	-4.19	-72.9d	2
J2000	(1) C wide band	30d 3' 37.0"	---	6.0GHz	-1.77	-68.2d	00:01:05
P62	P62	1h 33m 23.09971s	---	5.0GHz	-4.18	-73.3d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-1.92	-68.3d	00:01:05

TIME ON SOURCE SUMMARY (TIME IN: LST)							
Source	Scan	RA	AC Vel.	AC Freq.	Min HA	Min PA	#
Epoch	Instrument Cfg.	Dec	BD Vel.	BD Freq.	Max HA	Max PA	Total Time
P61	P61	1h 33m 37.04985s	---	5.0GHz	-4.17	-73.1d	2
J2000	(1) C wide band	30d 3' 37.0"	---	6.0GHz	-1.92	-68.2d	00:01:05
P74	P74	1h 33m 51.0s	---	5.0GHz	-4.16	-73.3d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-1.91	-68.3d	00:01:05
P73	P73	1h 34m 4.95015s	---	5.0GHz	-4.16	-73.1d	2
J2000	(1) C wide band	30d 3' 37.0"	---	6.0GHz	-1.90	-68.3d	00:01:05
P86	P86	1h 34m 18.90029s	---	5.0GHz	-4.15	-73.3d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-1.89	-68.4d	00:01:05
P137	P137	1h 36m 10.50147s	---	5.0GHz	-4.08	-74.4d	2
J2000	(1) C wide band	30d 57' 37.0"	---	6.0GHz	-2.43	-69.2d	00:01:05
P129	P129	1h 35m 56.55132s	---	5.0GHz	-4.06	-74.2d	2
J2000	(1) C wide band	30d 51' 37.0"	---	6.0GHz	-2.42	-69.2d	00:01:05
P128	P128	1h 35m 42.60117s	---	5.0GHz	-4.05	-74.0d	2
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.46	-69.2d	00:01:06
P117	P117	1h 35m 28.65103s	---	5.0GHz	-4.03	-74.1d	2
J2000	(1) C wide band	30d 51' 37.0"	---	6.0GHz	-2.46	-69.3d	00:01:05
P116	P116	1h 35m 14.70088s	---	5.0GHz	-4.02	-74.0d	2
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.47	-69.3d	00:01:06
P105	P105	1h 35m 0.75073s	---	5.0GHz	-4.00	-74.1d	2
J2000	(1) C wide band	30d 51' 37.0"	---	6.0GHz	-2.48	-69.5d	00:01:05
P104	P104	1h 34m 46.80059s	---	5.0GHz	-3.99	-73.9d	2
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.49	-69.4d	00:01:06
P93	P93	1h 34m 32.85044s	---	5.0GHz	-3.97	-74.1d	2
J2000	(1) C wide band	30d 51' 37.0"	---	6.0GHz	-2.49	-69.6d	00:01:05
P92	P92	1h 34m 18.90029s	---	5.0GHz	-3.96	-73.9d	2
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.50	-69.6d	00:01:06
P81	P81	1h 34m 4.95015s	---	5.0GHz	-3.94	-74.1d	2
J2000	(1) C wide band	30d 51' 37.0"	---	6.0GHz	-2.51	-69.7d	00:01:05
P80	P80	1h 33m 51.0s	---	5.0GHz	-3.93	-73.9d	2
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.51	-69.7d	00:01:06
P69	P69	1h 33m 37.04985s	---	5.0GHz	-3.91	-74.0d	2
J2000	(1) C wide band	30d 51' 37.0"	---	6.0GHz	-2.52	-69.8d	00:01:05
P68	P68	1h 33m 23.09971s	---	5.0GHz	-3.90	-73.9d	2
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.53	-69.8d	00:01:06
P57	P57	1h 33m 9.14956s	---	5.0GHz	-3.88	-74.0d	2
J2000	(1) C wide band	30d 51' 37.0"	---	6.0GHz	-2.54	-69.9d	00:01:05
P56	P56	1h 32m 55.19941s	---	5.0GHz	-3.87	-73.8d	2
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.54	-69.9d	00:01:06
P55	P55	1h 33m 9.14956s	---	5.0GHz	-3.86	-74.3d	2
J2000	(1) C wide band	30d 39' 37.0"	---	6.0GHz	-2.06	-69.8d	00:01:05
P54	P54	1h 32m 55.19941s	---	5.0GHz	-3.85	-74.0d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-2.21	-69.8d	00:01:05
P53	P53	1h 33m 9.14956s	---	5.0GHz	-3.84	-73.8d	2
J2000	(1) C wide band	30d 27' 37.0"	---	6.0GHz	-2.22	-69.8d	00:01:05
P66	P66	1h 33m 23.09971s	---	5.0GHz	-3.83	-74.0d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-2.24	-69.9d	00:01:05
P65	P65	1h 33m 37.04985s	---	5.0GHz	-3.82	-73.8d	2
J2000	(1) C wide band	30d 27' 37.0"	---	6.0GHz	-2.25	-69.8d	00:01:05
P78	P78	1h 33m 51.0s	---	5.0GHz	-3.82	-73.9d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-2.27	-69.9d	00:01:05
P77	P77	1h 34m 4.95015s	---	5.0GHz	-3.81	-73.7d	2
J2000	(1) C wide band	30d 27' 37.0"	---	6.0GHz	-2.28	-69.9d	00:01:05
P90	P90	1h 34m 18.90029s	---	5.0GHz	-3.80	-73.9d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-2.30	-70.0d	00:01:05
P136	P136	1h 36m 10.50147s	---	5.0GHz	-3.80	-74.1d	2

TIME ON SOURCE SUMMARY (TIME IN: LST)							
Source	Scan	RA	AC Vel.	AC Freq.	Min HA	Min PA	#
Epoch	Instrument Cfg.	Dec	BD Vel.	BD Freq.	Max HA	Max PA	Total Time
J2000	(1) C wide band	30d 45' 37.0"	---	6.0GHz	-2.41	-70.1d	00:01:05
P127	P127	1h 35m 56.55132s	---	5.0GHz	-3.79	-73.9d	2
J2000	(1) C wide band	30d 39' 37.0"	---	6.0GHz	-2.39	-70.1d	00:01:05
P135	P135	1h 36m 10.50147s	---	5.0GHz	-3.78	-73.8d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-2.39	-70.1d	00:01:05
P115	P115	1h 35m 28.65103s	---	5.0GHz	-3.76	-74.0d	2
J2000	(1) C wide band	30d 39' 37.0"	---	6.0GHz	-2.36	-70.2d	00:01:05
P103	P103	1h 35m 0.75073s	---	5.0GHz	-3.74	-74.0d	2
J2000	(1) C wide band	30d 39' 37.0"	---	6.0GHz	-2.34	-70.3d	00:01:05
P91	P91	1h 34m 32.85044s	---	5.0GHz	-3.72	-74.3d	2
J2000	(1) C wide band	30d 39' 37.0"	---	6.0GHz	-1.98	-70.4d	00:01:06
P79	P79	1h 34m 4.95015s	---	5.0GHz	-3.70	-74.3d	2
J2000	(1) C wide band	30d 39' 37.0"	---	6.0GHz	-1.96	-70.4d	00:01:05
P67	P67	1h 33m 37.04985s	---	5.0GHz	-3.68	-74.3d	2
J2000	(1) C wide band	30d 39' 37.0"	---	6.0GHz	-1.94	-70.5d	00:01:05
P43	P43	1h 32m 41.24927s	---	5.0GHz	-3.65	-74.3d	2
J2000	(1) C wide band	30d 39' 37.0"	---	6.0GHz	-2.06	-70.6d	00:01:05
P42	P42	1h 32m 27.29912s	---	5.0GHz	-3.64	-74.0d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-2.18	-70.5d	00:01:05
P41	P41	1h 32m 41.24927s	---	5.0GHz	-3.63	-73.8d	2
J2000	(1) C wide band	30d 27' 37.0"	---	6.0GHz	-2.19	-70.5d	00:01:05
P29	P29	1h 32m 13.34897s	---	5.0GHz	-3.61	-73.9d	2
J2000	(1) C wide band	30d 27' 37.0"	---	6.0GHz	-2.16	-70.5d	00:01:05
P30	P30	1h 31m 59.39883s	---	5.0GHz	-3.60	-74.0d	2
J2000	(1) C wide band	30d 33' 37.0"	---	6.0GHz	-2.15	-70.7d	00:01:05
P17	P17	1h 31m 45.44868s	---	5.0GHz	-3.58	-73.9d	2
J2000	(1) C wide band	30d 27' 37.0"	---	6.0GHz	-2.13	-70.6d	00:01:05
P19	P19	1h 31m 45.44868s	---	5.0GHz	-3.57	-74.3d	2
J2000	(1) C wide band	30d 39' 37.0"	---	6.0GHz	-2.07	-70.9d	00:01:05
P31	P31	1h 32m 13.34897s	---	5.0GHz	-3.57	-74.3d	2
J2000	(1) C wide band	30d 39' 37.0"	---	6.0GHz	-2.06	-70.9d	00:01:05
P89	P89	1h 34m 32.85044s	---	5.0GHz	-3.60	-73.7d	2
J2000	(1) C wide band	30d 27' 37.0"	---	6.0GHz	-2.31	-70.6d	00:01:05
P98	P98	1h 34m 46.80059s	---	5.0GHz	-3.59	-73.3d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-1.88	-70.3d	00:01:05
P85	P85	1h 34m 32.85044s	---	5.0GHz	-3.57	-73.1d	2
J2000	(1) C wide band	30d 3' 37.0"	---	6.0GHz	-1.89	-70.3d	00:01:05
P97	P97	1h 35m 0.75073s	---	5.0GHz	-3.57	-73.0d	2
J2000	(1) C wide band	30d 3' 37.0"	---	6.0GHz	-1.87	-70.3d	00:01:05
P110	P110	1h 35m 14.70088s	---	5.0GHz	-3.56	-73.3d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-1.87	-70.4d	00:01:05
P109	P109	1h 35m 28.65103s	---	5.0GHz	-3.56	-73.0d	2
J2000	(1) C wide band	30d 3' 37.0"	---	6.0GHz	-1.86	-70.3d	00:01:05
P122	P122	1h 35m 42.60117s	---	5.0GHz	-3.55	-73.2d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-1.85	-70.5d	00:01:05
P121	P121	1h 35m 56.55132s	---	5.0GHz	-3.54	-73.0d	2
J2000	(1) C wide band	30d 3' 37.0"	---	6.0GHz	-1.84	-70.4d	00:01:05
P133	P133	1h 36m 10.50147s	---	5.0GHz	-3.53	-73.2d	2
J2000	(1) C wide band	30d 9' 37.0"	---	6.0GHz	-1.84	-70.5d	00:01:05
0137+331=3C48	0137+331=3C48	1h 37m 41.29943s	---	8.396GHz	-1.71	-80.4d	1
J2000	(2) Primary X band pointing	33d 9' 35.1330"	---	8.524GHz	-1.66	-80.5d	00:02:47
0137+331=3C48	0137+331=3C48	1h 37m 41.29943s	---	5.0GHz	-1.66	-80.5d	1
J2000	(1) C wide band	33d 9' 35.1330"	---	6.0GHz	-1.63	-80.6d	00:01:40

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FOR DAY 62788 LST 20:00:01 (WED MAY 16 11:32:09 UTC 2012) SUMMARY REPORT.										
ID	Source	Scan	AC Freq.	Start LST	Slew	Modifiers	Start HA	Start Az	Start El	Start PA
		Instrument Cfg.	BD Freq.	Stop LST	On Source		End HA	End Az	End El	End PA
1	J1733-1304	Dummy	5.0GHz	20:00:01	00:00:20	CalGain	2.45	223.0d	31.3d	35.4d
		(1) C wide band	6.0GHz	20:01:01	00:00:40		2.47	223.2d	31.2d	35.6d
2	J1733-1304	Dummy	8.396GHz	20:01:01	00:00:20	CalGain	2.47	223.2d	31.2d	35.6d
		(2) Primary X band pointing	8.524GHz	20:02:01	00:00:40		2.48	223.5d	31.0d	35.8d
3	J1733-1304	J1733-1304	8.396GHz	20:02:01	00:00:00	CalOffPtg	2.48	223.5d	31.0d	35.8d
		(2) Primary X band pointing	8.524GHz	20:11:08	00:09:07		2.63	225.5d	29.7d	37.4d
4	J1733-1304	J1733-1304	5.0GHz	20:11:08	00:00:20	CalBP, Apply Ref. Ptg.	2.63	225.5d	29.7d	37.4d
		(1) C wide band	6.0GHz	20:13:08	00:01:40		2.67	226.0d	29.4d	37.7d
5	J1733-1304	J1733-1304	5.0GHz	20:13:08	00:00:00	CalBP, Apply Ref. Ptg.	2.67	226.0d	29.4d	37.7d
		(1) C wide band	6.0GHz	20:15:08	00:02:00		2.70	226.4d	29.1d	38.0d
6	J0137+3309	J0137+3309	8.396GHz	20:15:08	00:04:09	CalOffPtg, calculated CCW wrap	-5.38	65.5d	24.8d	-64.2d
		(2) Primary X band pointing	8.524GHz	20:22:17	00:03:00		-5.26	66.2d	26.1d	-64.9d
7	J0137+3309	J0137+3309	5.0GHz	20:22:17	00:00:20	CalGain, Apply Ref. Ptg., calculated CCW wrap	-5.26	66.2d	26.1d	-64.9d
		(1) C wide band	6.0GHz	20:23:23	00:00:47		-5.24	66.3d	26.3d	-65.0d
LOOP		J0137+3309								
8	P1	P1	5.0GHz	20:23:23	00:00:13	Apply Ref. Ptg., calculated CCW wrap	-5.13	70.1d	26.2d	-64.1d
		(1) C wide band	6.0GHz	20:24:08	00:00:32		-5.12	70.2d	26.4d	-64.2d
9	P14	P14	5.0GHz	20:24:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.12	70.0d	26.4d	-64.2d
		(1) C wide band	6.0GHz	20:24:48	00:00:33		-5.11	70.1d	26.5d	-64.3d
10	P3	P3	5.0GHz	20:24:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.11	70.0d	26.6d	-64.3d
		(1) C wide band	6.0GHz	20:25:28	00:00:33		-5.10	70.1d	26.7d	-64.4d
11	P16	P16	5.0GHz	20:25:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.10	70.0d	26.7d	-64.4d
		(1) C wide band	6.0GHz	20:26:08	00:00:33		-5.09	70.0d	26.9d	-64.5d
12	P15	P15	5.0GHz	20:26:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.09	70.1d	26.8d	-64.4d
		(1) C wide band	6.0GHz	20:26:48	00:00:33		-5.08	70.2d	26.9d	-64.4d
13	P28	P28	5.0GHz	20:26:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.09	70.1d	26.9d	-64.5d
		(1) C wide band	6.0GHz	20:27:28	00:00:33		-5.08	70.1d	27.0d	-64.5d
14	P27	P27	5.0GHz	20:27:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.08	70.2d	26.9d	-64.5d
		(1) C wide band	6.0GHz	20:28:08	00:00:33		-5.07	70.3d	27.1d	-64.5d
15	P40	P40	5.0GHz	20:28:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.07	70.2d	27.1d	-64.5d
		(1) C wide band	6.0GHz	20:28:48	00:00:33		-5.06	70.2d	27.2d	-64.6d
16	P39	P39	5.0GHz	20:28:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.06	70.3d	27.1d	-64.5d
		(1) C wide band	6.0GHz	20:29:28	00:00:33		-5.05	70.4d	27.2d	-64.6d
17	P52	P52	5.0GHz	20:29:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.06	70.2d	27.2d	-64.6d
		(1) C wide band	6.0GHz	20:30:08	00:00:33		-5.05	70.3d	27.4d	-64.7d
18	P51	P51	5.0GHz	20:30:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.05	70.4d	27.3d	-64.6d
		(1) C wide band	6.0GHz	20:30:48	00:00:33		-5.04	70.5d	27.4d	-64.6d
19	P64	P64	5.0GHz	20:30:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.04	70.3d	27.4d	-64.7d
		(1) C wide band	6.0GHz	20:31:28	00:00:33		-5.03	70.4d	27.5d	-64.7d
20	P63	P63	5.0GHz	20:31:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.04	70.5d	27.5d	-64.7d
		(1) C wide band	6.0GHz	20:32:08	00:00:33		-5.02	70.5d	27.6d	-64.7d
21	P76	P76	5.0GHz	20:32:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.03	70.4d	27.6d	-64.7d
		(1) C wide band	6.0GHz	20:32:48	00:00:33		-5.02	70.5d	27.7d	-64.8d
22	P75	P75	5.0GHz	20:32:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.02	70.6d	27.6d	-64.7d
		(1) C wide band	6.0GHz	20:33:28	00:00:33		-5.01	70.6d	27.8d	-64.8d
23	P88	P88	5.0GHz	20:33:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.01	70.5d	27.8d	-64.8d
		(1) C wide band	6.0GHz	20:34:08	00:00:33		-5.00	70.6d	27.9d	-64.9d
24	P87	P87	5.0GHz	20:34:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.01	70.7d	27.8d	-64.8d
		(1) C wide band	6.0GHz	20:34:48	00:00:33		-5.00	70.7d	27.9d	-64.9d
25	P100	P100	5.0GHz	20:34:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-5.00	70.6d	27.9d	-64.9d
		(1) C wide band	6.0GHz	20:35:28	00:00:33		-4.99	70.7d	28.1d	-64.9d
26	P99	P99	5.0GHz	20:35:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.99	70.8d	28.0d	-64.9d
		(1) C wide band	6.0GHz	20:36:08	00:00:33		-4.98	70.8d	28.1d	-64.9d
27	P112	P112	5.0GHz	20:36:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.99	70.7d	28.1d	-64.9d
		(1) C wide band	6.0GHz	20:36:48	00:00:33		-4.97	70.8d	28.2d	-65.0d

28	P111	P111	5.0GHz	20:36:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.98	70.8d	28.1d	-64.9d
		(1) C wide band	6.0GHz	20:37:28	00:00:33		-4.97	70.9d	28.3d	-65.0d
29	P124	P124	5.0GHz	20:37:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.97	70.8d	28.3d	-65.0d
		(1) C wide band	6.0GHz	20:38:08	00:00:33		-4.96	70.9d	28.4d	-65.1d
30	P123	P123	5.0GHz	20:38:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.96	70.9d	28.3d	-65.0d
		(1) C wide band	6.0GHz	20:38:48	00:00:33		-4.95	71.0d	28.4d	-65.1d
31	P134	P134	5.0GHz	20:38:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.96	70.9d	28.4d	-65.1d
		(1) C wide band	6.0GHz	20:39:28	00:00:33		-4.95	70.9d	28.6d	-65.1d
32	P125	P125	5.0GHz	20:39:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.94	70.9d	28.6d	-65.2d
		(1) C wide band	6.0GHz	20:40:08	00:00:33		-4.93	70.9d	28.8d	-65.3d
33	P126	P126	5.0GHz	20:40:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.93	70.9d	28.9d	-65.3d
		(1) C wide band	6.0GHz	20:40:48	00:00:33		-4.92	70.9d	29.0d	-65.4d
34	P113	P113	5.0GHz	20:40:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.91	71.0d	29.0d	-65.3d
		(1) C wide band	6.0GHz	20:41:28	00:00:33		-4.90	71.1d	29.1d	-65.4d
35	P114	P114	5.0GHz	20:41:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.90	71.0d	29.2d	-65.5d
		(1) C wide band	6.0GHz	20:42:08	00:00:33		-4.89	71.1d	29.3d	-65.5d
36	P101	P101	5.0GHz	20:42:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.88	71.2d	29.4d	-65.5d
		(1) C wide band	6.0GHz	20:42:48	00:00:33		-4.87	71.3d	29.5d	-65.5d
37	P102	P102	5.0GHz	20:42:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.87	71.2d	29.6d	-65.6d
		(1) C wide band	6.0GHz	20:43:28	00:00:33		-4.86	71.3d	29.7d	-65.6d
	END LOOP	J0137+3309								
38	J0137+3309	J0137+3309	5.0GHz	20:43:28	00:00:12	CalGain, Apply Ref. Ptg., calculated CCW wrap	-4.90	68.3d	30.2d	-66.8d
		(1) C wide band	6.0GHz	20:44:40	00:01:00		-4.88	68.4d	30.4d	-66.9d
	LOOP	J0137+3309								
39	P138	P138	5.0GHz	20:44:40	00:00:10	Apply Ref. Ptg., calculated CCW wrap	-4.86	70.6d	29.9d	-65.9d
		(1) C wide band	6.0GHz	20:45:23	00:00:33		-4.85	70.7d	30.0d	-66.0d
40	P131	P131	5.0GHz	20:45:23	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.84	70.8d	30.1d	-66.0d
		(1) C wide band	6.0GHz	20:46:03	00:00:33		-4.83	70.9d	30.2d	-66.0d
41	P130	P130	5.0GHz	20:46:03	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.83	71.0d	30.2d	-66.0d
		(1) C wide band	6.0GHz	20:46:43	00:00:33		-4.82	71.1d	30.3d	-66.0d
42	P119	P119	5.0GHz	20:46:43	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.81	71.0d	30.4d	-66.1d
		(1) C wide band	6.0GHz	20:47:23	00:00:33		-4.80	71.1d	30.5d	-66.2d
43	P118	P118	5.0GHz	20:47:23	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.80	71.2d	30.5d	-66.1d
		(1) C wide band	6.0GHz	20:48:03	00:00:33		-4.79	71.3d	30.7d	-66.2d
44	P107	P107	5.0GHz	20:48:03	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.78	71.2d	30.8d	-66.3d
		(1) C wide band	6.0GHz	20:48:43	00:00:33		-4.77	71.3d	30.9d	-66.3d
45	P106	P106	5.0GHz	20:48:43	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.77	71.4d	30.9d	-66.3d
		(1) C wide band	6.0GHz	20:49:23	00:00:33		-4.76	71.5d	31.0d	-66.3d
46	P95	P95	5.0GHz	20:49:23	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.75	71.4d	31.1d	-66.4d
		(1) C wide band	6.0GHz	20:50:03	00:00:33		-4.74	71.4d	31.2d	-66.4d
47	P94	P94	5.0GHz	20:50:03	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.74	71.6d	31.2d	-66.4d
		(1) C wide band	6.0GHz	20:50:43	00:00:33		-4.73	71.6d	31.4d	-66.5d
48	P83	P83	5.0GHz	20:50:43	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.72	71.6d	31.5d	-66.5d
		(1) C wide band	6.0GHz	20:51:23	00:00:33		-4.71	71.6d	31.6d	-66.6d
49	P82	P82	5.0GHz	20:51:23	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.71	71.8d	31.6d	-66.5d
		(1) C wide band	6.0GHz	20:52:03	00:00:33		-4.70	71.8d	31.7d	-66.6d
50	P71	P71	5.0GHz	20:52:03	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.69	71.7d	31.8d	-66.7d
		(1) C wide band	6.0GHz	20:52:43	00:00:33		-4.68	71.8d	31.9d	-66.7d
51	P70	P70	5.0GHz	20:52:43	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.68	71.9d	32.0d	-66.7d
		(1) C wide band	6.0GHz	20:53:23	00:00:33		-4.67	72.0d	32.1d	-66.7d
52	P59	P59	5.0GHz	20:53:23	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.66	71.9d	32.2d	-66.8d
		(1) C wide band	6.0GHz	20:54:03	00:00:33		-4.65	72.0d	32.3d	-66.9d
53	P58	P58	5.0GHz	20:54:03	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.65	72.1d	32.3d	-66.8d
		(1) C wide band	6.0GHz	20:54:43	00:00:33		-4.64	72.2d	32.4d	-66.9d
54	P47	P47	5.0GHz	20:54:43	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.63	72.1d	32.5d	-66.9d
		(1) C wide band	6.0GHz	20:55:23	00:00:33		-4.62	72.2d	32.7d	-67.0d
55	P46	P46	5.0GHz	20:55:23	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.62	72.3d	32.7d	-66.9d

		(1) C wide band	6.0GHz	20:56:03	00:00:33		-4.61	72.4d	32.8d	-67.0d
56	P35	P35	5.0GHz	20:56:03	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.60	72.3d	32.9d	-67.1d
		(1) C wide band	6.0GHz	20:56:43	00:00:33		-4.59	72.3d	33.0d	-67.1d
57	P34	P34	5.0GHz	20:56:43	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.59	72.5d	33.0d	-67.1d
		(1) C wide band	6.0GHz	20:57:23	00:00:33		-4.58	72.5d	33.2d	-67.1d
58	P23	P23	5.0GHz	20:57:23	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.57	72.5d	33.2d	-67.2d
		(1) C wide band	6.0GHz	20:58:03	00:00:33		-4.56	72.5d	33.4d	-67.3d
59	P22	P22	5.0GHz	20:58:03	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.56	72.7d	33.4d	-67.2d
		(1) C wide band	6.0GHz	20:58:43	00:00:33		-4.55	72.7d	33.5d	-67.3d
60	P11	P11	5.0GHz	20:58:43	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.54	72.6d	33.6d	-67.3d
		(1) C wide band	6.0GHz	20:59:23	00:00:33		-4.53	72.7d	33.7d	-67.4d
61	P10	P10	5.0GHz	20:59:23	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.53	72.8d	33.7d	-67.3d
		(1) C wide band	6.0GHz	21:00:03	00:00:33		-4.52	72.9d	33.9d	-67.4d
62	P9	P9	5.0GHz	21:00:03	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.52	73.0d	33.8d	-67.3d
		(1) C wide band	6.0GHz	21:00:43	00:00:33		-4.51	73.1d	33.9d	-67.4d
63	P20	P20	5.0GHz	21:00:43	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.51	73.1d	33.8d	-67.3d
		(1) C wide band	6.0GHz	21:01:23	00:00:33		-4.50	73.2d	34.0d	-67.3d
64	P21	P21	5.0GHz	21:01:23	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.51	73.1d	33.9d	-67.4d
		(1) C wide band	6.0GHz	21:02:03	00:00:33		-4.49	73.1d	34.1d	-67.4d
65	P32	P32	5.0GHz	21:02:03	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.50	73.2d	34.0d	-67.4d
		(1) C wide band	6.0GHz	21:02:43	00:00:33		-4.49	73.3d	34.1d	-67.4d
66	P33	P33	5.0GHz	21:02:43	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.49	73.2d	34.1d	-67.4d
		(1) C wide band	6.0GHz	21:03:23	00:00:33		-4.48	73.2d	34.3d	-67.5d
67	P44	P44	5.0GHz	21:03:23	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.48	73.3d	34.2d	-67.4d
		(1) C wide band	6.0GHz	21:04:03	00:00:33		-4.47	73.4d	34.3d	-67.5d
68	P45	P45	5.0GHz	21:04:03	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.48	73.2d	34.3d	-67.5d
		(1) C wide band	6.0GHz	21:04:43	00:00:33		-4.47	73.3d	34.4d	-67.6d
	END LOOP	J0137+3309								
69	J0137+3309	J0137+3309	5.0GHz	21:04:43	00:00:12	CalGain, Apply Ref. Ptg., calculated CCW wrap	-4.55	70.2d	34.3d	-68.6d
		(1) C wide band	6.0GHz	21:05:55	00:01:00		-4.53	70.4d	34.5d	-68.7d
	LOOP	J0137+3309								
70	P132	P132	5.0GHz	21:05:55	00:00:11	Apply Ref. Ptg., calculated CCW wrap	-4.50	72.8d	34.2d	-67.6d
		(1) C wide band	6.0GHz	21:06:38	00:00:32		-4.48	72.9d	34.3d	-67.7d
71	P120	P120	5.0GHz	21:06:38	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.48	72.9d	34.4d	-67.7d
		(1) C wide band	6.0GHz	21:07:18	00:00:33		-4.47	73.0d	34.5d	-67.7d
72	P108	P108	5.0GHz	21:07:18	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.46	73.0d	34.6d	-67.8d
		(1) C wide band	6.0GHz	21:07:58	00:00:33		-4.45	73.1d	34.8d	-67.8d
73	P96	P96	5.0GHz	21:07:58	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.44	73.1d	34.9d	-67.9d
		(1) C wide band	6.0GHz	21:08:38	00:00:33		-4.43	73.2d	35.0d	-67.9d
74	P84	P84	5.0GHz	21:08:38	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.42	73.2d	35.1d	-67.9d
		(1) C wide band	6.0GHz	21:09:18	00:00:33		-4.41	73.3d	35.2d	-68.0d
75	P72	P72	5.0GHz	21:09:18	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.40	73.4d	35.3d	-68.0d
		(1) C wide band	6.0GHz	21:09:58	00:00:33		-4.39	73.4d	35.4d	-68.1d
76	P60	P60	5.0GHz	21:09:58	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.38	73.5d	35.5d	-68.1d
		(1) C wide band	6.0GHz	21:10:38	00:00:33		-4.37	73.5d	35.7d	-68.2d
77	P48	P48	5.0GHz	21:10:38	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.36	73.6d	35.8d	-68.2d
		(1) C wide band	6.0GHz	21:11:18	00:00:33		-4.35	73.6d	35.9d	-68.2d
78	P36	P36	5.0GHz	21:11:18	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.34	73.7d	36.0d	-68.3d
		(1) C wide band	6.0GHz	21:11:58	00:00:33		-4.33	73.8d	36.1d	-68.3d
79	P24	P24	5.0GHz	21:11:58	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.33	73.8d	36.2d	-68.4d
		(1) C wide band	6.0GHz	21:12:38	00:00:33		-4.31	73.9d	36.3d	-68.4d
80	P12	P12	5.0GHz	21:12:38	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.31	73.9d	36.4d	-68.4d
		(1) C wide band	6.0GHz	21:13:18	00:00:33		-4.30	74.0d	36.6d	-68.5d
81	P8	P8	5.0GHz	21:13:18	00:00:08	Apply Ref. Ptg., calculated CCW wrap	-4.30	74.4d	36.4d	-68.2d
		(1) C wide band	6.0GHz	21:13:58	00:00:32		-4.28	74.5d	36.6d	-68.3d
82	P7	P7	5.0GHz	21:13:58	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.29	74.6d	36.5d	-68.2d
		(1) C wide band	6.0GHz	21:14:38	00:00:33		-4.28	74.7d	36.6d	-68.2d

83	P18	P18	5.0GHz	21:14:38	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.28	74.8d	36.5d	-68.1d
		(1) C wide band	6.0GHz	21:15:18	00:00:33		-4.27	74.8d	36.7d	-68.2d
84	P5	P5	5.0GHz	21:15:18	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.27	75.0d	36.7d	-68.1d
		(1) C wide band	6.0GHz	21:15:58	00:00:33		-4.26	75.0d	36.8d	-68.2d
85	P6	P6	5.0GHz	21:15:58	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.25	74.9d	36.9d	-68.3d
		(1) C wide band	6.0GHz	21:16:38	00:00:33		-4.24	75.0d	37.0d	-68.3d
86	P4	P4	5.0GHz	21:16:38	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.24	75.2d	36.9d	-68.2d
		(1) C wide band	6.0GHz	21:17:18	00:00:33		-4.23	75.3d	37.1d	-68.2d
87	P2	P2	5.0GHz	21:17:18	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.23	75.5d	37.0d	-68.1d
		(1) C wide band	6.0GHz	21:17:58	00:00:33		-4.22	75.6d	37.1d	-68.1d
88	P13	P13	5.0GHz	21:17:58	00:00:08	Apply Ref. Ptg., calculated CCW wrap	-4.23	75.6d	37.0d	-68.0d
		(1) C wide band	6.0GHz	21:18:38	00:00:32		-4.22	75.7d	37.1d	-68.0d
89	P26	P26	5.0GHz	21:18:38	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.22	75.6d	37.1d	-68.1d
		(1) C wide band	6.0GHz	21:19:18	00:00:33		-4.21	75.6d	37.2d	-68.1d
90	P25	P25	5.0GHz	21:19:18	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.22	75.7d	37.1d	-68.0d
		(1) C wide band	6.0GHz	21:19:58	00:00:33		-4.20	75.8d	37.3d	-68.1d
91	P38	P38	5.0GHz	21:19:58	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.21	75.7d	37.3d	-68.1d
		(1) C wide band	6.0GHz	21:20:38	00:00:33		-4.20	75.7d	37.4d	-68.2d
92	P37	P37	5.0GHz	21:20:38	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.20	75.8d	37.3d	-68.1d
		(1) C wide band	6.0GHz	21:21:18	00:00:33		-4.19	75.9d	37.4d	-68.1d
93	P50	P50	5.0GHz	21:21:18	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.19	75.8d	37.4d	-68.2d
		(1) C wide band	6.0GHz	21:21:58	00:00:33		-4.18	75.8d	37.6d	-68.2d
94	P49	P49	5.0GHz	21:21:58	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.19	75.9d	37.5d	-68.2d
		(1) C wide band	6.0GHz	21:22:38	00:00:33		-4.18	76.0d	37.6d	-68.2d
95	P62	P62	5.0GHz	21:22:38	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.18	75.8d	37.6d	-68.3d
		(1) C wide band	6.0GHz	21:23:18	00:00:33		-4.17	75.9d	37.7d	-68.3d
96	P61	P61	5.0GHz	21:23:18	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.17	76.0d	37.6d	-68.2d
		(1) C wide band	6.0GHz	21:23:58	00:00:33		-4.16	76.1d	37.8d	-68.3d
97	P74	P74	5.0GHz	21:23:58	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.16	75.9d	37.8d	-68.3d
		(1) C wide band	6.0GHz	21:24:38	00:00:33		-4.15	76.0d	37.9d	-68.4d
98	P73	P73	5.0GHz	21:24:38	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.16	76.1d	37.8d	-68.3d
		(1) C wide band	6.0GHz	21:25:18	00:00:33		-4.15	76.2d	38.0d	-68.3d
99	P86	P86	5.0GHz	21:25:18	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.15	76.0d	37.9d	-68.4d
		(1) C wide band	6.0GHz	21:25:58	00:00:33		-4.14	76.1d	38.1d	-68.4d
	END LOOP	J0137+3309								
100	J0137+3309	J0137+3309	5.0GHz	21:25:58	00:00:13	CalGain, Apply Ref. Ptg., calculated CCW wrap	-4.20	72.2d	38.5d	-70.4d
		(1) C wide band	6.0GHz	21:27:11	00:01:00		-4.17	72.3d	38.7d	-70.5d
101	J0137+3309	J0137+3309	8.396GHz	21:27:11	00:00:20	CalOffPtg, calculated CCW wrap	-4.17	72.3d	38.7d	-70.5d
		(2) Primary X band pointing	8.524GHz	21:30:18	00:02:47		-4.12	72.6d	39.3d	-70.7d
102	J0137+3309	J0137+3309	5.0GHz	21:30:18	00:00:20	CalGain, Apply Ref. Ptg., calculated CCW wrap	-4.12	72.6d	39.3d	-70.7d
		(1) C wide band	6.0GHz	21:31:25	00:00:47		-4.10	72.7d	39.5d	-70.8d
	LOOP	J0137+3309								
103	P137	P137	5.0GHz	21:31:25	00:00:11	Apply Ref. Ptg., calculated CCW wrap	-4.08	75.5d	39.1d	-69.2d
		(1) C wide band	6.0GHz	21:32:09	00:00:33		-4.07	75.6d	39.2d	-69.3d
104	P129	P129	5.0GHz	21:32:09	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.06	75.7d	39.2d	-69.2d
		(1) C wide band	6.0GHz	21:32:49	00:00:33		-4.05	75.8d	39.4d	-69.3d
105	P128	P128	5.0GHz	21:32:49	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.05	75.9d	39.4d	-69.2d
		(1) C wide band	6.0GHz	21:33:29	00:00:33		-4.04	76.0d	39.5d	-69.3d
106	P117	P117	5.0GHz	21:33:29	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.03	75.9d	39.6d	-69.3d
		(1) C wide band	6.0GHz	21:34:09	00:00:33		-4.02	75.9d	39.7d	-69.4d
107	P116	P116	5.0GHz	21:34:09	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.02	76.1d	39.8d	-69.3d
		(1) C wide band	6.0GHz	21:34:49	00:00:33		-4.01	76.2d	39.9d	-69.4d
108	P105	P105	5.0GHz	21:34:49	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-4.00	76.1d	40.0d	-69.5d
		(1) C wide band	6.0GHz	21:35:29	00:00:33		-3.99	76.1d	40.1d	-69.5d
109	P104	P104	5.0GHz	21:35:29	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.99	76.3d	40.1d	-69.4d
		(1) C wide band	6.0GHz	21:36:09	00:00:33		-3.98	76.3d	40.3d	-69.5d

110	P93	P93	5.0GHz	21:36:09	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.97	76.2d	40.3d	-69.6d
		(1) C wide band	6.0GHz	21:36:49	00:00:33		-3.96	76.3d	40.5d	-69.6d
111	P92	P92	5.0GHz	21:36:49	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.96	76.4d	40.5d	-69.6d
		(1) C wide band	6.0GHz	21:37:29	00:00:33		-3.95	76.5d	40.6d	-69.6d
112	P81	P81	5.0GHz	21:37:29	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.94	76.4d	40.7d	-69.7d
		(1) C wide band	6.0GHz	21:38:09	00:00:33		-3.93	76.5d	40.8d	-69.7d
113	P80	P80	5.0GHz	21:38:09	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.93	76.6d	40.8d	-69.7d
		(1) C wide band	6.0GHz	21:38:49	00:00:33		-3.92	76.7d	41.0d	-69.7d
114	P69	P69	5.0GHz	21:38:49	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.91	76.6d	41.1d	-69.8d
		(1) C wide band	6.0GHz	21:39:29	00:00:33		-3.90	76.6d	41.2d	-69.9d
115	P68	P68	5.0GHz	21:39:29	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.90	76.8d	41.2d	-69.8d
		(1) C wide band	6.0GHz	21:40:09	00:00:33		-3.89	76.9d	41.3d	-69.8d
116	P57	P57	5.0GHz	21:40:09	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.88	76.8d	41.4d	-69.9d
		(1) C wide band	6.0GHz	21:40:49	00:00:33		-3.87	76.8d	41.6d	-70.0d
117	P56	P56	5.0GHz	21:40:49	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.87	77.0d	41.6d	-69.9d
		(1) C wide band	6.0GHz	21:41:29	00:00:33		-3.86	77.0d	41.7d	-69.9d
118	P55	P55	5.0GHz	21:41:29	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.86	77.1d	41.6d	-69.8d
		(1) C wide band	6.0GHz	21:42:09	00:00:33		-3.85	77.2d	41.8d	-69.9d
119	P54	P54	5.0GHz	21:42:09	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.85	77.4d	41.8d	-69.8d
		(1) C wide band	6.0GHz	21:42:49	00:00:33		-3.83	77.4d	41.9d	-69.9d
120	P53	P53	5.0GHz	21:42:49	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.84	77.5d	41.8d	-69.8d
		(1) C wide band	6.0GHz	21:43:29	00:00:33		-3.83	77.6d	42.0d	-69.8d
121	P66	P66	5.0GHz	21:43:29	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.83	77.4d	41.9d	-69.9d
		(1) C wide band	6.0GHz	21:44:09	00:00:33		-3.82	77.5d	42.1d	-69.9d
122	P65	P65	5.0GHz	21:44:09	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.82	77.6d	42.0d	-69.8d
		(1) C wide band	6.0GHz	21:44:49	00:00:33		-3.81	77.7d	42.1d	-69.8d
123	P78	P78	5.0GHz	21:44:49	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.82	77.5d	42.1d	-69.9d
		(1) C wide band	6.0GHz	21:45:29	00:00:33		-3.81	77.6d	42.3d	-70.0d
124	P77	P77	5.0GHz	21:45:29	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.81	77.7d	42.2d	-69.9d
		(1) C wide band	6.0GHz	21:46:09	00:00:33		-3.80	77.8d	42.3d	-69.9d
125	P90	P90	5.0GHz	21:46:09	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.80	77.6d	42.3d	-70.0d
		(1) C wide band	6.0GHz	21:46:49	00:00:33		-3.79	77.7d	42.4d	-70.0d
END LOOP		J0137+3309								
126	J0137+3309	J0137+3309	5.0GHz	21:46:49	00:00:13	CalGain, Apply Ref. Ptg., calculated CCW wrap	-3.85	74.0d	42.6d	-72.0d
		(1) C wide band	6.0GHz	21:48:02	00:01:00		-3.83	74.1d	42.8d	-72.1d
LOOP		J0137+3309								
127	P136	P136	5.0GHz	21:48:02	00:00:12	Apply Ref. Ptg., calculated CCW wrap	-3.80	77.4d	42.4d	-70.1d
		(1) C wide band	6.0GHz	21:48:46	00:00:32		-3.79	77.4d	42.5d	-70.2d
128	P127	P127	5.0GHz	21:48:46	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.79	77.6d	42.5d	-70.1d
		(1) C wide band	6.0GHz	21:49:26	00:00:33		-3.78	77.7d	42.7d	-70.2d
129	P135	P135	5.0GHz	21:49:26	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.78	77.8d	42.6d	-70.1d
		(1) C wide band	6.0GHz	21:50:06	00:00:33		-3.77	77.8d	42.7d	-70.1d
130	P115	P115	5.0GHz	21:50:06	00:00:08	Apply Ref. Ptg., calculated CCW wrap	-3.76	77.8d	42.9d	-70.2d
		(1) C wide band	6.0GHz	21:50:46	00:00:32		-3.75	77.8d	43.0d	-70.3d
131	P103	P103	5.0GHz	21:50:46	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.74	77.9d	43.1d	-70.3d
		(1) C wide band	6.0GHz	21:51:26	00:00:33		-3.73	77.9d	43.3d	-70.3d
132	P91	P91	5.0GHz	21:51:26	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.72	78.0d	43.3d	-70.4d
		(1) C wide band	6.0GHz	21:52:06	00:00:33		-3.71	78.1d	43.5d	-70.4d
133	P79	P79	5.0GHz	21:52:06	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.70	78.1d	43.6d	-70.4d
		(1) C wide band	6.0GHz	21:52:46	00:00:33		-3.69	78.2d	43.7d	-70.5d
134	P67	P67	5.0GHz	21:52:46	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.68	78.2d	43.8d	-70.5d
		(1) C wide band	6.0GHz	21:53:26	00:00:33		-3.67	78.3d	43.9d	-70.5d
135	P43	P43	5.0GHz	21:53:26	00:00:08	Apply Ref. Ptg., calculated CCW wrap	-3.65	78.4d	44.1d	-70.6d
		(1) C wide band	6.0GHz	21:54:06	00:00:32		-3.64	78.4d	44.3d	-70.6d
136	P42	P42	5.0GHz	21:54:06	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.64	78.6d	44.3d	-70.5d
		(1) C wide band	6.0GHz	21:54:46	00:00:33		-3.63	78.7d	44.4d	-70.6d
137	P41	P41	5.0GHz	21:54:46	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.63	78.8d	44.3d	-70.5d

		(1) C wide band	6.0GHz	21:55:26	00:00:33		-3.62	78.8d	44.5d	-70.5d
138	P29	P29	5.0GHz	21:55:26	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.61	78.9d	44.6d	-70.5d
		(1) C wide band	6.0GHz	21:56:06	00:00:33		-3.60	79.0d	44.7d	-70.6d
139	P30	P30	5.0GHz	21:56:06	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.60	78.8d	44.8d	-70.7d
		(1) C wide band	6.0GHz	21:56:46	00:00:33		-3.59	78.9d	44.9d	-70.7d
140	P17	P17	5.0GHz	21:56:46	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.58	79.1d	44.9d	-70.6d
		(1) C wide band	6.0GHz	21:57:26	00:00:33		-3.57	79.1d	45.1d	-70.7d
141	P19	P19	5.0GHz	21:57:26	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.57	78.9d	45.1d	-70.9d
		(1) C wide band	6.0GHz	21:58:06	00:00:33		-3.56	78.9d	45.3d	-70.9d
142	P31	P31	5.0GHz	21:58:06	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.57	78.9d	45.2d	-70.9d
		(1) C wide band	6.0GHz	21:58:46	00:00:33		-3.56	79.0d	45.3d	-70.9d
143	P89	P89	5.0GHz	21:58:46	00:00:09	Apply Ref. Ptg., calculated CCW wrap	-3.60	79.0d	44.8d	-70.6d
		(1) C wide band	6.0GHz	21:59:27	00:00:32		-3.58	79.1d	44.9d	-70.6d
144	P98	P98	5.0GHz	21:59:27	00:00:08	Apply Ref. Ptg., calculated CCW wrap	-3.59	79.4d	44.8d	-70.3d
		(1) C wide band	6.0GHz	22:00:07	00:00:32		-3.58	79.5d	44.9d	-70.4d
145	P85	P85	5.0GHz	22:00:07	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.57	79.7d	44.9d	-70.3d
		(1) C wide band	6.0GHz	22:00:47	00:00:33		-3.56	79.7d	45.0d	-70.3d
146	P97	P97	5.0GHz	22:00:47	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.57	79.7d	45.0d	-70.3d
		(1) C wide band	6.0GHz	22:01:27	00:00:33		-3.56	79.7d	45.1d	-70.3d
147	P110	P110	5.0GHz	22:01:27	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.56	79.6d	45.1d	-70.4d
		(1) C wide band	6.0GHz	22:02:07	00:00:33		-3.55	79.7d	45.2d	-70.5d
148	P109	P109	5.0GHz	22:02:07	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.56	79.8d	45.1d	-70.3d
		(1) C wide band	6.0GHz	22:02:47	00:00:33		-3.54	79.8d	45.3d	-70.4d
149	P122	P122	5.0GHz	22:02:47	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.55	79.7d	45.3d	-70.5d
		(1) C wide band	6.0GHz	22:03:27	00:00:33		-3.54	79.7d	45.4d	-70.5d
150	P121	P121	5.0GHz	22:03:27	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.54	79.9d	45.3d	-70.4d
		(1) C wide band	6.0GHz	22:04:07	00:00:33		-3.53	79.9d	45.4d	-70.4d
151	P133	P133	5.0GHz	22:04:07	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.53	79.8d	45.4d	-70.5d
		(1) C wide band	6.0GHz	22:04:47	00:00:33		-3.52	79.8d	45.6d	-70.5d
	END LOOP	J0137+3309								
152	J0137+3309	J0137+3309	5.0GHz	22:04:47	00:00:13	CalGain, Apply Ref. Ptg., calculated CCW wrap	-3.55	75.6d	46.2d	-73.4d
		(1) C wide band	6.0GHz	22:06:01	00:01:01		-3.53	75.7d	46.4d	-73.5d
	LOOP	J0137+3309								
153	P138	P138	5.0GHz	22:06:01	00:00:11	Apply Ref. Ptg., calculated CCW wrap	-3.50	78.6d	46.1d	-71.6d
		(1) C wide band	6.0GHz	22:06:45	00:00:33		-3.49	78.7d	46.3d	-71.6d
154	P1	P1	5.0GHz	22:06:45	00:00:10	Apply Ref. Ptg., calculated CCW wrap	-3.41	80.7d	46.9d	-70.8d
		(1) C wide band	6.0GHz	22:07:28	00:00:33		-3.40	80.8d	47.1d	-70.8d
155	P14	P14	5.0GHz	22:07:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.40	80.6d	47.1d	-70.9d
		(1) C wide band	6.0GHz	22:08:08	00:00:33		-3.39	80.7d	47.2d	-71.0d
156	P3	P3	5.0GHz	22:08:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.39	80.5d	47.3d	-71.1d
		(1) C wide band	6.0GHz	22:08:48	00:00:33		-3.37	80.6d	47.4d	-71.1d
157	P16	P16	5.0GHz	22:08:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.38	80.5d	47.4d	-71.2d
		(1) C wide band	6.0GHz	22:09:28	00:00:33		-3.37	80.5d	47.5d	-71.2d
158	P15	P15	5.0GHz	22:09:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.37	80.6d	47.5d	-71.1d
		(1) C wide band	6.0GHz	22:10:08	00:00:33		-3.36	80.7d	47.6d	-71.1d
159	P28	P28	5.0GHz	22:10:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.36	80.5d	47.6d	-71.2d
		(1) C wide band	6.0GHz	22:10:48	00:00:33		-3.35	80.6d	47.7d	-71.3d
160	P27	P27	5.0GHz	22:10:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.36	80.7d	47.6d	-71.2d
		(1) C wide band	6.0GHz	22:11:28	00:00:33		-3.35	80.8d	47.8d	-71.2d
161	P40	P40	5.0GHz	22:11:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.35	80.6d	47.8d	-71.3d
		(1) C wide band	6.0GHz	22:12:08	00:00:33		-3.34	80.7d	47.9d	-71.3d
162	P39	P39	5.0GHz	22:12:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.34	80.8d	47.8d	-71.2d
		(1) C wide band	6.0GHz	22:12:48	00:00:33		-3.33	80.9d	47.9d	-71.2d
163	P52	P52	5.0GHz	22:12:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.34	80.7d	47.9d	-71.3d
		(1) C wide band	6.0GHz	22:13:28	00:00:33		-3.32	80.8d	48.1d	-71.4d
164	P51	P51	5.0GHz	22:13:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.33	80.9d	48.0d	-71.2d
		(1) C wide band	6.0GHz	22:14:08	00:00:33		-3.32	81.0d	48.1d	-71.3d

165	P64	P64	5.0GHz	22:14:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.32	80.8d	48.1d	-71.4d
		(1) C wide band	6.0GHz	22:14:48	00:00:33		-3.31	80.9d	48.2d	-71.4d
166	P63	P63	5.0GHz	22:14:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.31	81.0d	48.2d	-71.3d
		(1) C wide band	6.0GHz	22:15:28	00:00:33		-3.30	81.1d	48.3d	-71.3d
167	P76	P76	5.0GHz	22:15:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.31	80.9d	48.3d	-71.4d
		(1) C wide band	6.0GHz	22:16:08	00:00:33		-3.30	81.0d	48.4d	-71.4d
168	P75	P75	5.0GHz	22:16:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.30	81.1d	48.3d	-71.3d
		(1) C wide band	6.0GHz	22:16:48	00:00:33		-3.29	81.2d	48.5d	-71.4d
169	P88	P88	5.0GHz	22:16:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.29	81.0d	48.5d	-71.5d
		(1) C wide band	6.0GHz	22:17:28	00:00:33		-3.28	81.1d	48.6d	-71.5d
170	P87	P87	5.0GHz	22:17:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.28	81.2d	48.5d	-71.4d
		(1) C wide band	6.0GHz	22:18:08	00:00:33		-3.27	81.2d	48.7d	-71.4d
171	P100	P100	5.0GHz	22:18:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.28	81.1d	48.6d	-71.5d
		(1) C wide band	6.0GHz	22:18:48	00:00:33		-3.27	81.1d	48.8d	-71.5d
172	P99	P99	5.0GHz	22:18:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.27	81.3d	48.7d	-71.4d
		(1) C wide band	6.0GHz	22:19:28	00:00:33		-3.26	81.3d	48.8d	-71.4d
173	P112	P112	5.0GHz	22:19:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.26	81.2d	48.8d	-71.5d
		(1) C wide band	6.0GHz	22:20:08	00:00:33		-3.25	81.2d	49.0d	-71.6d
174	P111	P111	5.0GHz	22:20:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.26	81.4d	48.9d	-71.4d
		(1) C wide band	6.0GHz	22:20:48	00:00:33		-3.24	81.4d	49.0d	-71.5d
175	P124	P124	5.0GHz	22:20:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.25	81.3d	49.0d	-71.6d
		(1) C wide band	6.0GHz	22:21:28	00:00:33		-3.24	81.3d	49.1d	-71.6d
176	P123	P123	5.0GHz	22:21:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.24	81.5d	49.1d	-71.5d
		(1) C wide band	6.0GHz	22:22:08	00:00:33		-3.23	81.5d	49.2d	-71.5d
177	P134	P134	5.0GHz	22:22:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.23	81.4d	49.2d	-71.6d
		(1) C wide band	6.0GHz	22:22:48	00:00:33		-3.22	81.4d	49.3d	-71.7d
178	P125	P125	5.0GHz	22:22:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.22	81.3d	49.4d	-71.8d
		(1) C wide band	6.0GHz	22:23:28	00:00:33		-3.21	81.4d	49.5d	-71.8d
179	P126	P126	5.0GHz	22:23:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.20	81.2d	49.6d	-71.9d
		(1) C wide band	6.0GHz	22:24:08	00:00:33		-3.19	81.3d	49.7d	-72.0d
180	P113	P113	5.0GHz	22:24:08	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.19	81.5d	49.8d	-71.9d
		(1) C wide band	6.0GHz	22:24:48	00:00:33		-3.18	81.6d	49.9d	-71.9d
181	P114	P114	5.0GHz	22:24:48	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.17	81.4d	50.0d	-72.0d
		(1) C wide band	6.0GHz	22:25:28	00:00:33		-3.16	81.5d	50.1d	-72.0d
182	P101	P101	5.0GHz	22:25:28	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.16	81.7d	50.1d	-71.9d
		(1) C wide band	6.0GHz	22:26:08	00:00:33		-3.15	81.7d	50.3d	-72.0d
	END LOOP	J0137+3309								
183	J0137+3309	J0137+3309	5.0GHz	22:26:08	00:00:14	CalGain, Apply Ref. Ptg., calculated CCW wrap	-3.19	77.4d	50.5d	-74.9d
		(1) C wide band	6.0GHz	22:27:22	00:01:00		-3.17	77.5d	50.7d	-75.0d
184	J0137+3309	J0137+3309	8.396GHz	22:27:22	00:00:20	CalOffPtg, calculated CCW wrap	-3.17	77.5d	50.7d	-75.0d
		(2) Primary X band pointing	8.524GHz	22:30:29	00:02:47		-3.12	77.8d	51.4d	-75.3d
185	J0137+3309	J0137+3309	5.0GHz	22:30:29	00:00:20	CalGain, Apply Ref. Ptg., calculated CCW wrap	-3.12	77.8d	51.4d	-75.3d
		(1) C wide band	6.0GHz	22:31:36	00:00:47		-3.10	77.9d	51.6d	-75.3d
	LOOP	J0137+3309								
186	P132	P132	5.0GHz	22:31:36	00:00:12	Apply Ref. Ptg., calculated CCW wrap	-3.07	81.2d	51.4d	-73.0d
		(1) C wide band	6.0GHz	22:32:21	00:00:33		-3.06	81.2d	51.6d	-73.1d
187	P131	P131	5.0GHz	22:32:21	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.06	81.4d	51.5d	-72.9d
		(1) C wide band	6.0GHz	22:33:01	00:00:33		-3.05	81.4d	51.7d	-73.0d
188	P130	P130	5.0GHz	22:33:01	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.04	81.6d	51.7d	-72.9d
		(1) C wide band	6.0GHz	22:33:41	00:00:33		-3.03	81.7d	51.8d	-72.9d
189	P119	P119	5.0GHz	22:33:41	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.03	81.6d	51.9d	-73.0d
		(1) C wide band	6.0GHz	22:34:21	00:00:33		-3.02	81.6d	52.0d	-73.1d
190	P118	P118	5.0GHz	22:34:21	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.01	81.8d	52.0d	-72.9d
		(1) C wide band	6.0GHz	22:35:01	00:00:33		-3.00	81.9d	52.2d	-73.0d
191	P107	P107	5.0GHz	22:35:01	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-3.00	81.7d	52.3d	-73.1d
		(1) C wide band	6.0GHz	22:35:41	00:00:33		-2.99	81.8d	52.4d	-73.1d

192	P106	P106	5.0GHz	22:35:41	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.98	82.0d	52.4d	-73.0d
		(1) C wide band	6.0GHz	22:36:21	00:00:33		-2.97	82.1d	52.6d	-73.1d
193	P95	P95	5.0GHz	22:36:21	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.97	81.9d	52.6d	-73.2d
		(1) C wide band	6.0GHz	22:37:01	00:00:33		-2.96	82.0d	52.8d	-73.2d
194	P94	P94	5.0GHz	22:37:01	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.95	82.2d	52.8d	-73.1d
		(1) C wide band	6.0GHz	22:37:41	00:00:33		-2.94	82.2d	52.9d	-73.1d
195	P83	P83	5.0GHz	22:37:41	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.94	82.1d	53.0d	-73.3d
		(1) C wide band	6.0GHz	22:38:21	00:00:33		-2.93	82.2d	53.1d	-73.3d
196	P82	P82	5.0GHz	22:38:21	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.92	82.4d	53.2d	-73.2d
		(1) C wide band	6.0GHz	22:39:01	00:00:33		-2.91	82.4d	53.3d	-73.2d
197	P71	P71	5.0GHz	22:39:01	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.91	82.3d	53.4d	-73.4d
		(1) C wide band	6.0GHz	22:39:41	00:00:33		-2.90	82.4d	53.5d	-73.4d
198	P70	P70	5.0GHz	22:39:41	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.89	82.5d	53.5d	-73.3d
		(1) C wide band	6.0GHz	22:40:21	00:00:33		-2.88	82.6d	53.7d	-73.3d
199	P59	P59	5.0GHz	22:40:21	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.88	82.5d	53.7d	-73.5d
		(1) C wide band	6.0GHz	22:41:01	00:00:33		-2.87	82.5d	53.9d	-73.5d
200	P58	P58	5.0GHz	22:41:01	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.86	82.7d	53.9d	-73.4d
		(1) C wide band	6.0GHz	22:41:41	00:00:33		-2.85	82.8d	54.0d	-73.4d
201	P47	P47	5.0GHz	22:41:41	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.85	82.7d	54.1d	-73.5d
		(1) C wide band	6.0GHz	22:42:21	00:00:33		-2.84	82.7d	54.2d	-73.6d
202	P46	P46	5.0GHz	22:42:21	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.83	82.9d	54.3d	-73.4d
		(1) C wide band	6.0GHz	22:43:01	00:00:33		-2.82	83.0d	54.4d	-73.5d
203	P35	P35	5.0GHz	22:43:01	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.82	82.9d	54.5d	-73.6d
		(1) C wide band	6.0GHz	22:43:41	00:00:33		-2.81	82.9d	54.6d	-73.6d
204	P34	P34	5.0GHz	22:43:41	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.80	83.1d	54.6d	-73.5d
		(1) C wide band	6.0GHz	22:44:21	00:00:33		-2.79	83.2d	54.8d	-73.5d
205	P23	P23	5.0GHz	22:44:21	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.79	83.0d	54.8d	-73.7d
		(1) C wide band	6.0GHz	22:45:01	00:00:33		-2.78	83.1d	55.0d	-73.7d
206	P22	P22	5.0GHz	22:45:01	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.78	83.3d	55.0d	-73.6d
		(1) C wide band	6.0GHz	22:45:41	00:00:33		-2.76	83.4d	55.1d	-73.6d
207	P11	P11	5.0GHz	22:45:41	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.76	83.2d	55.2d	-73.8d
		(1) C wide band	6.0GHz	22:46:21	00:00:33		-2.75	83.3d	55.4d	-73.8d
208	P10	P10	5.0GHz	22:46:21	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.75	83.5d	55.4d	-73.7d
		(1) C wide band	6.0GHz	22:47:01	00:00:33		-2.73	83.6d	55.5d	-73.7d
END LOOP		J0137+3309								
209	J0137+3309	J0137+3309	5.0GHz	22:47:01	00:00:14	CalGain, Apply Ref. Ptg., calculated CCW wrap	-2.84	79.2d	54.7d	-76.4d
		(1) C wide band	6.0GHz	22:48:15	00:01:00		-2.82	79.3d	55.0d	-76.5d
LOOP		J0137+3309								
210	P120	P120	5.0GHz	22:48:15	00:00:12	Apply Ref. Ptg., calculated CCW wrap	-2.78	82.9d	55.0d	-73.8d
		(1) C wide band	6.0GHz	22:49:00	00:00:33		-2.77	83.0d	55.1d	-73.9d
211	P108	P108	5.0GHz	22:49:00	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.76	83.0d	55.2d	-73.9d
		(1) C wide band	6.0GHz	22:49:40	00:00:33		-2.75	83.1d	55.3d	-73.9d
212	P96	P96	5.0GHz	22:49:40	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.74	83.2d	55.4d	-74.0d
		(1) C wide band	6.0GHz	22:50:20	00:00:33		-2.73	83.2d	55.6d	-74.0d
213	P84	P84	5.0GHz	22:50:20	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.73	83.3d	55.7d	-74.0d
		(1) C wide band	6.0GHz	22:51:00	00:00:33		-2.71	83.3d	55.8d	-74.0d
214	P72	P72	5.0GHz	22:51:00	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.71	83.4d	55.9d	-74.0d
		(1) C wide band	6.0GHz	22:51:40	00:00:33		-2.70	83.5d	56.0d	-74.1d
215	P60	P60	5.0GHz	22:51:40	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.69	83.5d	56.1d	-74.1d
		(1) C wide band	6.0GHz	22:52:20	00:00:33		-2.68	83.6d	56.3d	-74.1d
216	P48	P48	5.0GHz	22:52:20	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.67	83.6d	56.4d	-74.1d
		(1) C wide band	6.0GHz	22:53:00	00:00:33		-2.66	83.7d	56.5d	-74.2d
217	P36	P36	5.0GHz	22:53:00	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.65	83.8d	56.6d	-74.2d
		(1) C wide band	6.0GHz	22:53:40	00:00:33		-2.64	83.8d	56.7d	-74.2d
218	P24	P24	5.0GHz	22:53:40	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.63	83.9d	56.8d	-74.2d
		(1) C wide band	6.0GHz	22:54:20	00:00:33		-2.62	83.9d	57.0d	-74.3d
219	P12	P12	5.0GHz	22:54:20	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.61	84.0d	57.1d	-74.3d

		(1) C wide band	6.0GHz	22:55:00	00:00:33		-2.60	84.1d	57.2d	-74.3d
220	P9	P9	5.0GHz	22:55:00	00:00:08	Apply Ref. Ptg., calculated CCW wrap	-2.60	84.6d	57.1d	-73.9d
		(1) C wide band	6.0GHz	22:55:40	00:00:32		-2.59	84.6d	57.2d	-73.9d
221	P20	P20	5.0GHz	22:55:40	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.60	84.8d	57.1d	-73.7d
		(1) C wide band	6.0GHz	22:56:20	00:00:33		-2.59	84.9d	57.3d	-73.7d
222	P21	P21	5.0GHz	22:56:20	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.59	84.7d	57.3d	-73.9d
		(1) C wide band	6.0GHz	22:57:00	00:00:33		-2.58	84.7d	57.4d	-73.9d
223	P32	P32	5.0GHz	22:57:00	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.58	84.9d	57.3d	-73.7d
		(1) C wide band	6.0GHz	22:57:40	00:00:33		-2.57	85.0d	57.5d	-73.8d
224	P33	P33	5.0GHz	22:57:40	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.58	84.8d	57.4d	-73.9d
		(1) C wide band	6.0GHz	22:58:20	00:00:33		-2.56	84.8d	57.6d	-73.9d
225	P44	P44	5.0GHz	22:58:20	00:00:07	Apply Ref. Ptg.	-2.57	85.0d	57.5d	-73.8d
		(1) C wide band	6.0GHz	22:59:00	00:00:33		-2.56	85.1d	57.6d	-73.8d
226	P45	P45	5.0GHz	22:59:00	00:00:07	Apply Ref. Ptg., calculated CCW wrap	-2.56	84.9d	57.6d	-73.9d
		(1) C wide band	6.0GHz	22:59:40	00:00:33		-2.55	84.9d	57.8d	-74.0d
227	P56	P56	5.0GHz	22:59:40	00:00:07	Apply Ref. Ptg.	-2.55	85.1d	57.7d	-73.8d
		(1) C wide band	6.0GHz	23:00:20	00:00:33		-2.54	85.2d	57.8d	-73.8d
228	P57	P57	5.0GHz	23:00:20	00:00:07	Apply Ref. Ptg.	-2.55	85.0d	57.8d	-74.0d
		(1) C wide band	6.0GHz	23:01:00	00:00:33		-2.54	85.0d	57.9d	-74.0d
229	P68	P68	5.0GHz	23:01:00	00:00:07	Apply Ref. Ptg.	-2.54	85.2d	57.9d	-73.8d
		(1) C wide band	6.0GHz	23:01:40	00:00:33		-2.53	85.3d	58.0d	-73.9d
230	P69	P69	5.0GHz	23:01:40	00:00:07	Apply Ref. Ptg.	-2.53	85.1d	58.0d	-74.0d
		(1) C wide band	6.0GHz	23:02:20	00:00:33		-2.52	85.1d	58.1d	-74.0d
231	P80	P80	5.0GHz	23:02:20	00:00:07	Apply Ref. Ptg.	-2.53	85.3d	58.0d	-73.9d
		(1) C wide band	6.0GHz	23:03:00	00:00:33		-2.51	85.4d	58.2d	-73.9d
232	P81	P81	5.0GHz	23:03:00	00:00:07	Apply Ref. Ptg.	-2.52	85.1d	58.2d	-74.0d
		(1) C wide band	6.0GHz	23:03:40	00:00:33		-2.51	85.2d	58.3d	-74.1d
233	P92	P92	5.0GHz	23:03:40	00:00:07	Apply Ref. Ptg.	-2.51	85.4d	58.2d	-73.9d
		(1) C wide band	6.0GHz	23:04:20	00:00:33		-2.50	85.5d	58.4d	-73.9d
234	P93	P93	5.0GHz	23:04:20	00:00:07	Apply Ref. Ptg.	-2.50	85.2d	58.3d	-74.1d
		(1) C wide band	6.0GHz	23:05:00	00:00:33		-2.49	85.3d	58.5d	-74.1d
235	P104	P104	5.0GHz	23:05:00	00:00:07	Apply Ref. Ptg.	-2.50	85.5d	58.4d	-73.9d
		(1) C wide band	6.0GHz	23:05:40	00:00:33		-2.49	85.6d	58.5d	-73.9d
236	P105	P105	5.0GHz	23:05:40	00:00:07	Apply Ref. Ptg.	-2.49	85.3d	58.5d	-74.1d
		(1) C wide band	6.0GHz	23:06:20	00:00:33		-2.48	85.4d	58.6d	-74.1d
237	P116	P116	5.0GHz	23:06:20	00:00:07	Apply Ref. Ptg.	-2.48	85.6d	58.6d	-73.9d
		(1) C wide band	6.0GHz	23:07:00	00:00:33		-2.47	85.7d	58.7d	-74.0d
238	P117	P117	5.0GHz	23:07:00	00:00:07	Apply Ref. Ptg.	-2.47	85.4d	58.7d	-74.1d
		(1) C wide band	6.0GHz	23:07:40	00:00:33		-2.46	85.5d	58.8d	-74.1d
239	P128	P128	5.0GHz	23:07:40	00:00:07	Apply Ref. Ptg.	-2.47	85.7d	58.8d	-74.0d
		(1) C wide band	6.0GHz	23:08:20	00:00:33		-2.46	85.8d	58.9d	-74.0d
	END LOOP	J0137+3309								
240	J0137+3309	J0137+3309	5.0GHz	23:08:20	00:00:14	CalGain, Apply Ref. Ptg., calculated CCW wrap	-2.49	81.0d	59.1d	-77.8d
		(1) C wide band	6.0GHz	23:09:34	00:01:00		-2.47	81.1d	59.3d	-77.8d
	LOOP	J0137+3309								
241	P137	P137	5.0GHz	23:09:34	00:00:14	Apply Ref. Ptg.	-2.44	85.5d	59.1d	-74.3d
		(1) C wide band	6.0GHz	23:10:20	00:00:32		-2.43	85.6d	59.3d	-74.4d
242	P129	P129	5.0GHz	23:10:20	00:00:07	Apply Ref. Ptg.	-2.43	85.8d	59.3d	-74.2d
		(1) C wide band	6.0GHz	23:11:00	00:00:33		-2.42	85.8d	59.4d	-74.2d
243	P136	P136	5.0GHz	23:11:00	00:00:07	Apply Ref. Ptg.	-2.42	86.0d	59.3d	-74.1d
		(1) C wide band	6.0GHz	23:11:40	00:00:33		-2.41	86.1d	59.5d	-74.1d
244	P127	P127	5.0GHz	23:11:40	00:00:07	Apply Ref. Ptg.	-2.40	86.3d	59.5d	-73.9d
		(1) C wide band	6.0GHz	23:12:20	00:00:33		-2.39	86.4d	59.6d	-73.9d
245	P135	P135	5.0GHz	23:12:20	00:00:07	Apply Ref. Ptg.	-2.40	86.5d	59.6d	-73.8d
		(1) C wide band	6.0GHz	23:13:00	00:00:33		-2.39	86.6d	59.7d	-73.8d
246	P115	P115	5.0GHz	23:13:00	00:00:08	Apply Ref. Ptg.	-2.37	86.5d	59.9d	-74.0d
		(1) C wide band	6.0GHz	23:13:40	00:00:32		-2.36	86.6d	60.0d	-74.0d

247	P103	P103	5.0GHz	23:13:40	00:00:07	Apply Ref. Ptg.	-2.36	86.6d	60.1d	-74.0d
		(1) C wide band	6.0GHz	23:14:20	00:00:33		-2.34	86.7d	60.2d	-74.0d
248	P102	P102	5.0GHz	23:14:20	00:00:07	Apply Ref. Ptg.	-2.34	86.9d	60.3d	-73.8d
		(1) C wide band	6.0GHz	23:15:00	00:00:33		-2.33	87.0d	60.4d	-73.9d
249	P89	P89	5.0GHz	23:15:00	00:00:07	Apply Ref. Ptg.	-2.33	87.2d	60.4d	-73.7d
		(1) C wide band	6.0GHz	23:15:40	00:00:33		-2.31	87.3d	60.6d	-73.7d
250	P90	P90	5.0GHz	23:15:40	00:00:07	Apply Ref. Ptg.	-2.31	87.2d	60.6d	-73.9d
		(1) C wide band	6.0GHz	23:16:20	00:00:33		-2.30	87.2d	60.8d	-73.9d
251	P77	P77	5.0GHz	23:16:20	00:00:07	Apply Ref. Ptg.	-2.30	87.5d	60.8d	-73.7d
		(1) C wide band	6.0GHz	23:17:00	00:00:33		-2.28	87.6d	60.9d	-73.7d
252	P78	P78	5.0GHz	23:17:00	00:00:07	Apply Ref. Ptg.	-2.28	87.4d	61.0d	-73.9d
		(1) C wide band	6.0GHz	23:17:40	00:00:33		-2.27	87.5d	61.1d	-73.9d
253	P65	P65	5.0GHz	23:17:40	00:00:07	Apply Ref. Ptg.	-2.27	87.7d	61.2d	-73.8d
		(1) C wide band	6.0GHz	23:18:20	00:00:33		-2.25	87.8d	61.3d	-73.8d
254	P66	P66	5.0GHz	23:18:20	00:00:07	Apply Ref. Ptg.	-2.25	87.6d	61.4d	-74.0d
		(1) C wide band	6.0GHz	23:19:00	00:00:33		-2.24	87.7d	61.5d	-74.0d
255	P53	P53	5.0GHz	23:19:00	00:00:07	Apply Ref. Ptg.	-2.24	87.9d	61.5d	-73.8d
		(1) C wide band	6.0GHz	23:19:40	00:00:33		-2.22	88.0d	61.7d	-73.8d
256	P54	P54	5.0GHz	23:19:40	00:00:07	Apply Ref. Ptg.	-2.22	87.8d	61.8d	-74.0d
		(1) C wide band	6.0GHz	23:20:20	00:00:33		-2.21	87.9d	61.9d	-74.0d
257	P41	P41	5.0GHz	23:20:20	00:00:07	Apply Ref. Ptg.	-2.21	88.1d	61.9d	-73.8d
		(1) C wide band	6.0GHz	23:21:00	00:00:33		-2.19	88.2d	62.1d	-73.8d
258	P42	P42	5.0GHz	23:21:00	00:00:07	Apply Ref. Ptg.	-2.19	88.1d	62.1d	-74.0d
		(1) C wide band	6.0GHz	23:21:40	00:00:33		-2.18	88.1d	62.3d	-74.0d
259	P29	P29	5.0GHz	23:21:40	00:00:07	Apply Ref. Ptg.	-2.18	88.4d	62.3d	-73.8d
		(1) C wide band	6.0GHz	23:22:20	00:00:33		-2.16	88.5d	62.4d	-73.9d
260	P30	P30	5.0GHz	23:22:20	00:00:07	Apply Ref. Ptg.	-2.16	88.3d	62.5d	-74.0d
		(1) C wide band	6.0GHz	23:23:00	00:00:33		-2.15	88.4d	62.6d	-74.0d
261	P17	P17	5.0GHz	23:23:00	00:00:07	Apply Ref. Ptg.	-2.15	88.6d	62.7d	-73.9d
		(1) C wide band	6.0GHz	23:23:40	00:00:33		-2.13	88.7d	62.8d	-73.9d
262	P18	P18	5.0GHz	23:23:40	00:00:07	Apply Ref. Ptg.	-2.13	88.5d	62.9d	-74.1d
		(1) C wide band	6.0GHz	23:24:20	00:00:33		-2.12	88.6d	63.0d	-74.1d
263	P5	P5	5.0GHz	23:24:20	00:00:07	Apply Ref. Ptg.	-2.12	88.8d	63.0d	-73.9d
		(1) C wide band	6.0GHz	23:25:00	00:00:33		-2.10	88.9d	63.2d	-73.9d
264	P6	P6	5.0GHz	23:25:00	00:00:07	Apply Ref. Ptg.	-2.10	88.8d	63.2d	-74.1d
		(1) C wide band	6.0GHz	23:25:40	00:00:33		-2.09	88.8d	63.4d	-74.1d
265	P7	P7	5.0GHz	23:25:40	00:00:07	Apply Ref. Ptg.	-2.09	88.6d	63.4d	-74.3d
		(1) C wide band	6.0GHz	23:26:20	00:00:33		-2.08	88.7d	63.5d	-74.3d
266	P8	P8	5.0GHz	23:26:20	00:00:07	Apply Ref. Ptg.	-2.08	88.5d	63.6d	-74.5d
		(1) C wide band	6.0GHz	23:27:00	00:00:33		-2.07	88.6d	63.7d	-74.5d
267	P19	P19	5.0GHz	23:27:00	00:00:08	Apply Ref. Ptg.	-2.08	88.7d	63.5d	-74.3d
		(1) C wide band	6.0GHz	23:27:40	00:00:32		-2.07	88.8d	63.7d	-74.3d
268	P31	P31	5.0GHz	23:27:40	00:00:07	Apply Ref. Ptg.	-2.08	88.7d	63.6d	-74.3d
		(1) C wide band	6.0GHz	23:28:20	00:00:33		-2.06	88.8d	63.7d	-74.3d
269	P43	P43	5.0GHz	23:28:20	00:00:07	Apply Ref. Ptg.	-2.07	88.8d	63.6d	-74.3d
		(1) C wide band	6.0GHz	23:29:00	00:00:33		-2.06	88.9d	63.8d	-74.3d
270	P55	P55	5.0GHz	23:29:00	00:00:07	Apply Ref. Ptg.	-2.07	88.8d	63.7d	-74.3d
		(1) C wide band	6.0GHz	23:29:40	00:00:33		-2.06	88.9d	63.8d	-74.3d
	END LOOP	J0137+3309								
271	J0137+3309	J0137+3309	5.0GHz	23:29:40	00:00:16	CalGain, Apply Ref. Ptg., calculated CCW wrap	-2.13	82.9d	63.4d	-79.1d
		(1) C wide band	6.0GHz	23:30:56	00:01:00		-2.11	83.0d	63.7d	-79.1d
272	J0137+3309	J0137+3309	8.396GHz	23:30:56	00:00:20	CalOffPtg, calculated CCW wrap	-2.11	83.0d	63.7d	-79.1d
		(2) Primary X band pointing	8.524GHz	23:34:03	00:02:47		-2.06	83.3d	64.3d	-79.3d
273	J0137+3309	J0137+3309	5.0GHz	23:34:03	00:00:20	CalGain, Apply Ref. Ptg., calculated CCW wrap	-2.06	83.3d	64.3d	-79.3d
		(1) C wide band	6.0GHz	23:35:10	00:00:47		-2.04	83.4d	64.6d	-79.4d
	LOOP	J0137+3309								

274	P91	P91	5.0GHz	23:35:10	00:00:16	Apply Ref. Ptg.	-1.99	89.4d	64.7d	-74.3d
		(1) C wide band	6.0GHz	23:35:59	00:00:33		-1.98	89.5d	64.8d	-74.3d
275	P79	P79	5.0GHz	23:35:59	00:00:07	Apply Ref. Ptg.	-1.97	89.6d	64.9d	-74.3d
		(1) C wide band	6.0GHz	23:36:39	00:00:33		-1.96	89.7d	65.1d	-74.3d
276	P67	P67	5.0GHz	23:36:39	00:00:07	Apply Ref. Ptg.	-1.95	89.8d	65.2d	-74.3d
		(1) C wide band	6.0GHz	23:37:19	00:00:33		-1.94	89.8d	65.3d	-74.3d
277	P62	P62	5.0GHz	23:37:19	00:00:09	Apply Ref. Ptg.	-1.93	91.0d	65.2d	-73.3d
		(1) C wide band	6.0GHz	23:38:00	00:00:32		-1.92	91.1d	65.3d	-73.3d
278	P61	P61	5.0GHz	23:38:00	00:00:07	Apply Ref. Ptg.	-1.93	91.3d	65.3d	-73.1d
		(1) C wide band	6.0GHz	23:38:40	00:00:33		-1.92	91.4d	65.4d	-73.1d
279	P74	P74	5.0GHz	23:38:40	00:00:07	Apply Ref. Ptg.	-1.92	91.2d	65.4d	-73.3d
		(1) C wide band	6.0GHz	23:39:20	00:00:33		-1.91	91.3d	65.5d	-73.3d
280	P73	P73	5.0GHz	23:39:20	00:00:07	Apply Ref. Ptg.	-1.91	91.5d	65.4d	-73.1d
		(1) C wide band	6.0GHz	23:40:00	00:00:33		-1.90	91.6d	65.6d	-73.1d
281	P86	P86	5.0GHz	23:40:00	00:00:07	Apply Ref. Ptg.	-1.91	91.3d	65.6d	-73.3d
		(1) C wide band	6.0GHz	23:40:40	00:00:33		-1.89	91.4d	65.7d	-73.3d
282	P85	P85	5.0GHz	23:40:40	00:00:07	Apply Ref. Ptg.	-1.90	91.6d	65.6d	-73.1d
		(1) C wide band	6.0GHz	23:41:20	00:00:33		-1.89	91.7d	65.8d	-73.1d
283	P98	P98	5.0GHz	23:41:20	00:00:07	Apply Ref. Ptg.	-1.89	91.4d	65.7d	-73.3d
		(1) C wide band	6.0GHz	23:42:00	00:00:33		-1.88	91.5d	65.9d	-73.3d
284	P97	P97	5.0GHz	23:42:00	00:00:07	Apply Ref. Ptg.	-1.88	91.7d	65.8d	-73.0d
		(1) C wide band	6.0GHz	23:42:40	00:00:33		-1.87	91.8d	65.9d	-73.0d
285	P110	P110	5.0GHz	23:42:40	00:00:07	Apply Ref. Ptg.	-1.88	91.6d	65.9d	-73.3d
		(1) C wide band	6.0GHz	23:43:20	00:00:33		-1.87	91.7d	66.1d	-73.2d
286	P109	P109	5.0GHz	23:43:20	00:00:07	Apply Ref. Ptg.	-1.87	91.9d	66.0d	-73.0d
		(1) C wide band	6.0GHz	23:44:00	00:00:33		-1.86	92.0d	66.1d	-73.0d
287	P122	P122	5.0GHz	23:44:00	00:00:07	Apply Ref. Ptg.	-1.86	91.7d	66.1d	-73.2d
		(1) C wide band	6.0GHz	23:44:40	00:00:33		-1.85	91.8d	66.2d	-73.2d
288	P121	P121	5.0GHz	23:44:40	00:00:07	Apply Ref. Ptg.	-1.85	92.0d	66.2d	-73.0d
		(1) C wide band	6.0GHz	23:45:20	00:00:33		-1.84	92.1d	66.3d	-73.0d
289	P133	P133	5.0GHz	23:45:20	00:00:07	Apply Ref. Ptg.	-1.85	91.8d	66.3d	-73.2d
		(1) C wide band	6.0GHz	23:46:00	00:00:33		-1.84	91.9d	66.4d	-73.2d
290	P49	P49	5.0GHz	23:46:00	00:00:09	Apply Ref. Ptg.	-1.79	92.6d	67.0d	-72.9d
		(1) C wide band	6.0GHz	23:46:41	00:00:32		-1.77	92.8d	67.2d	-72.9d
291	P50	P50	5.0GHz	23:46:41	00:00:07	Apply Ref. Ptg.	-1.77	92.6d	67.2d	-73.1d
		(1) C wide band	6.0GHz	23:47:21	00:00:33		-1.76	92.7d	67.4d	-73.1d
292	P37	P37	5.0GHz	23:47:21	00:00:07	Apply Ref. Ptg.	-1.76	92.9d	67.4d	-72.9d
		(1) C wide band	6.0GHz	23:48:01	00:00:33		-1.74	93.1d	67.5d	-72.9d
293	P38	P38	5.0GHz	23:48:01	00:00:07	Apply Ref. Ptg.	-1.74	92.8d	67.6d	-73.1d
		(1) C wide band	6.0GHz	23:48:41	00:00:33		-1.73	93.0d	67.7d	-73.1d
294	P25	P25	5.0GHz	23:48:41	00:00:07	Apply Ref. Ptg.	-1.73	93.2d	67.8d	-72.8d
		(1) C wide band	6.0GHz	23:49:21	00:00:33		-1.71	93.4d	67.9d	-72.8d
295	P26	P26	5.0GHz	23:49:21	00:00:07	Apply Ref. Ptg.	-1.71	93.1d	68.0d	-73.0d
		(1) C wide band	6.0GHz	23:50:01	00:00:33		-1.70	93.3d	68.1d	-73.0d
296	P13	P13	5.0GHz	23:50:01	00:00:07	Apply Ref. Ptg.	-1.70	93.6d	68.1d	-72.8d
		(1) C wide band	6.0GHz	23:50:41	00:00:33		-1.68	93.7d	68.3d	-72.8d
	END LOOP	J0137+3309								
297	J0137+3309	J0137+3309	5.0GHz	23:50:41	00:00:20	CalGain, Apply Ref. Ptg., calculated CCW wrap	-1.78	84.8d	67.8d	-80.2d
		(1) C wide band	6.0GHz	23:52:01	00:01:00		-1.76	84.9d	68.0d	-80.2d
	LOOP	J0137+3309								
298	P4	P4	5.0GHz	23:52:01	00:00:19	Apply Ref. Ptg.	-1.65	93.2d	68.8d	-73.4d
		(1) C wide band	6.0GHz	23:52:53	00:00:33		-1.64	93.4d	69.0d	-73.4d
299	P2	P2	5.0GHz	23:52:53	00:00:08	Apply Ref. Ptg.	-1.64	93.9d	68.9d	-72.9d
		(1) C wide band	6.0GHz	23:53:33	00:00:32		-1.63	94.0d	69.0d	-72.9d
	END LOOP	J0137+3309								
300	J0137+3309	J0137+3309	5.0GHz	23:53:33	00:00:20	CalGain, Apply Ref. Ptg.	-1.74	85.1d	68.4d	-80.3d
		(1) C wide band	6.0GHz	23:54:54	00:01:01		-1.71	85.2d	68.6d	-80.4d

301	0137+331=3C48	0137+331=3C48	8.396GHz	23:54:54	00:00:20	CalOffPtg	-1.71	85.2d	68.6d	-80.4d
		(2) Primary X band pointing	8.524GHz	23:58:01	00:02:47		-1.66	85.5d	69.3d	-80.5d
302	0137+331=3C48	0137+331=3C48	5.0GHz	23:58:01	00:00:20	CalFlux, Apply Ref. Ptg.	-1.66	85.5d	69.3d	-80.5d
		(1) C wide band	6.0GHz	00:00:01	00:01:40		-1.63	85.7d	69.7d	-80.6d

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- Project passes validation.