EXHIBIT 2

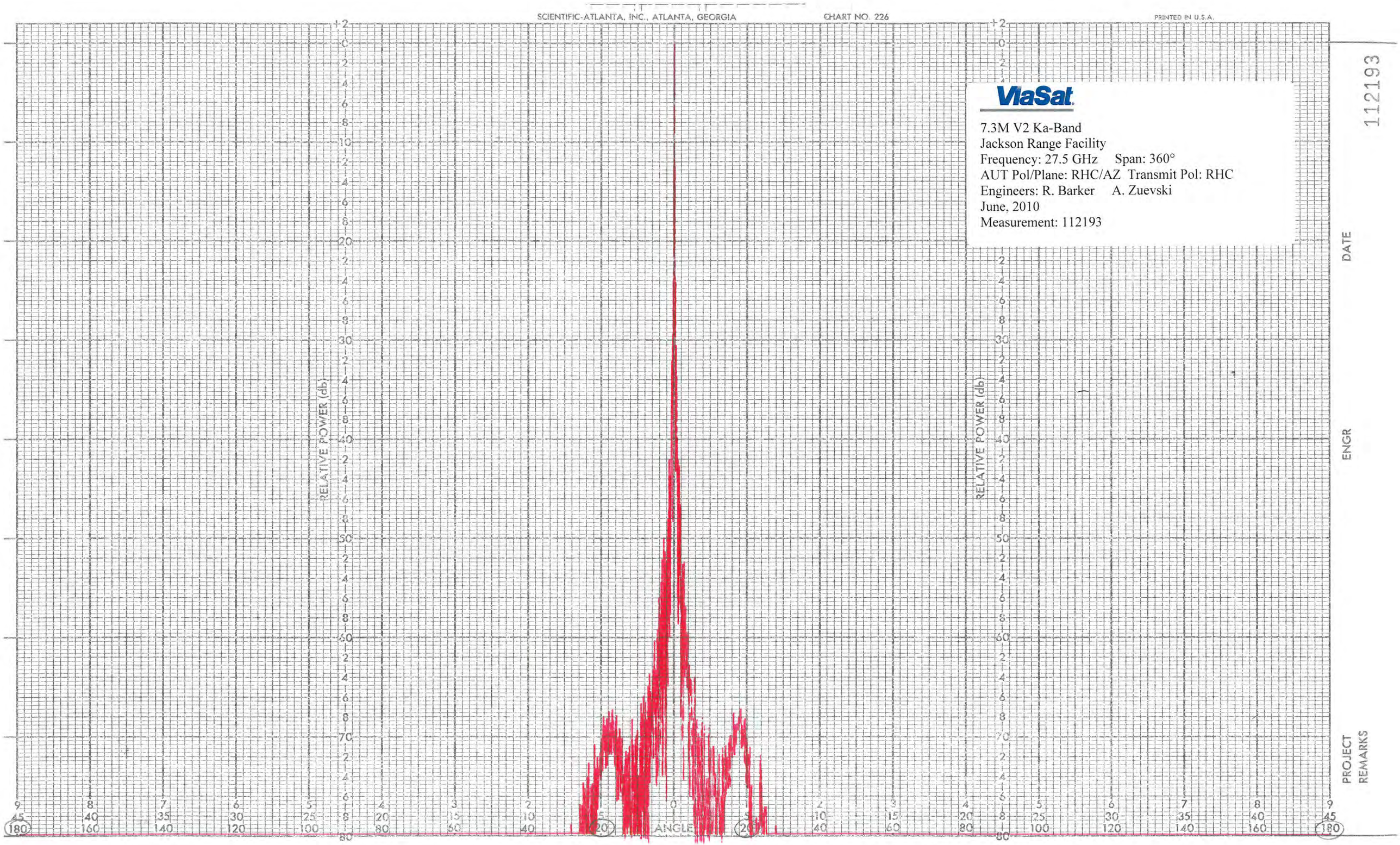
7.3 Meter Ka Band Antenna Patterns

Transmit Patterns (Azimuth)

Transmit circular patterns were measured at four frequencies in two orthogonal reflector cuts at 9, 18, 90 and 360 degree expansions. LHC and RHC patterns were measured using a circularly polarized corrugated horn transmit source. On Patterns 112614 and 112612 the reflector was rotated 180° in polarization to demonstrate the effect of gravity on the antenna structure.

Test	Freq	AUT Pol	AUT Plane	SPAN	Amp Scale	Tx Pol	Tx Dia. (Ft)	Range Setup	Pattern #	Notes:
Transmit Patterns Az	27.5	RHC	Az	360	80	RHC	Corr Hrn	Elevated	112193	
	27.5	RHC	Az	90	80	RHC	Corr hrn	Elevated	112192	
	27.5	RHC	Az	18	80	RHC	Corr hrn	Elevated	112191	
	27.5	RHC	Az	9	80	RHC	Corr hrn	Elevated	112190	
	28.4	RHC	Az	360	80	RHC	Corr hrn	Elevated	112197	
	28.4	RHC	Az	90	80	RHC	Corr hrn	Elevated	112198	
	28.4	RHC	Az	18	80	RHC	Corr hrn	Elevated	112199	
	28.4	RHC	Az	9	80	RHC	Corr hrn	Elevated	112200	
	29.10	RHC	Az	360	80	RHC	Corr hrn	Elevated	112201	
	29.10	RHC	Az	90	80	RHC	Corr hrn	Elevated	112202	
	29.10	RHC	Az	18	80	RHC	Corr hrn	Elevated	112203	
	29.10	RHC	Az	9	80	RHC	Corr hrn	Elevated	112204	
	30	RHC	Az	360	80	RHC	Corr hrn	Elevated	112181	
	30	RHC	Az	90	80	RHC	Corr hrn	Elevated	112183	
	30	RHC	Az	18	80	RHC	Corr hrn	Elevated	112186	
	30	RHC	Az	9	80	RHC	Corr hrn	Elevated	112187	
	27.5	LHC	Az	360	80	LHC	Corr hrn	Elevated	112600	
	27.5	LHC	Az	90	80	LHC	Corr hrn	Elevated	112601	
	27.5	LHC	Az	18	80	LHC	Corr hrn	Elevated	112602	
	27.5	LHC	Az	9	80	LHC	Corr hrn	Elevated	112603	
	28.4	LHC	Az	360	80	LHC	Corr hrn	Elevated	112606	
	28.4	LHC	Az	90	80	LHC	Corr hrn	Elevated	112607	
	28.4	LHC	Az	18	80	LHC	Corr hrn	Elevated	112608	
	28.4	LHC	Az	9	80	LHC	Corr hrn	Elevated	112609	
	29.10	LHC	Az	360	80	LHC	Corr hrn	Elevated	112610	
	29.10	LHC	Az	90	80	LHC	Corr hrn	Elevated	112611	
	29.10	LHC	Az	18	80	LHC	Corr hrn	Elevated	112613	
	29.10	LHC	Az	9	80	LHC	Corr hrn	Elevated	112614 / 112612	Pol 180° Demonstrates Gravity Effects
	30	LHC	Az	360	80	LHC	Corr hrn	Elevated	112615	
	30	LHC	Az	90	80	LHC	Corr hrn	Elevated	112616	
	30	LHC	Az	18	80	LHC	Corr hrn	Elevated	112617	
	30	LHC	Az	9	80	LHC	Corr hrn	Elevated	112618	

ViaSat Proprietary Information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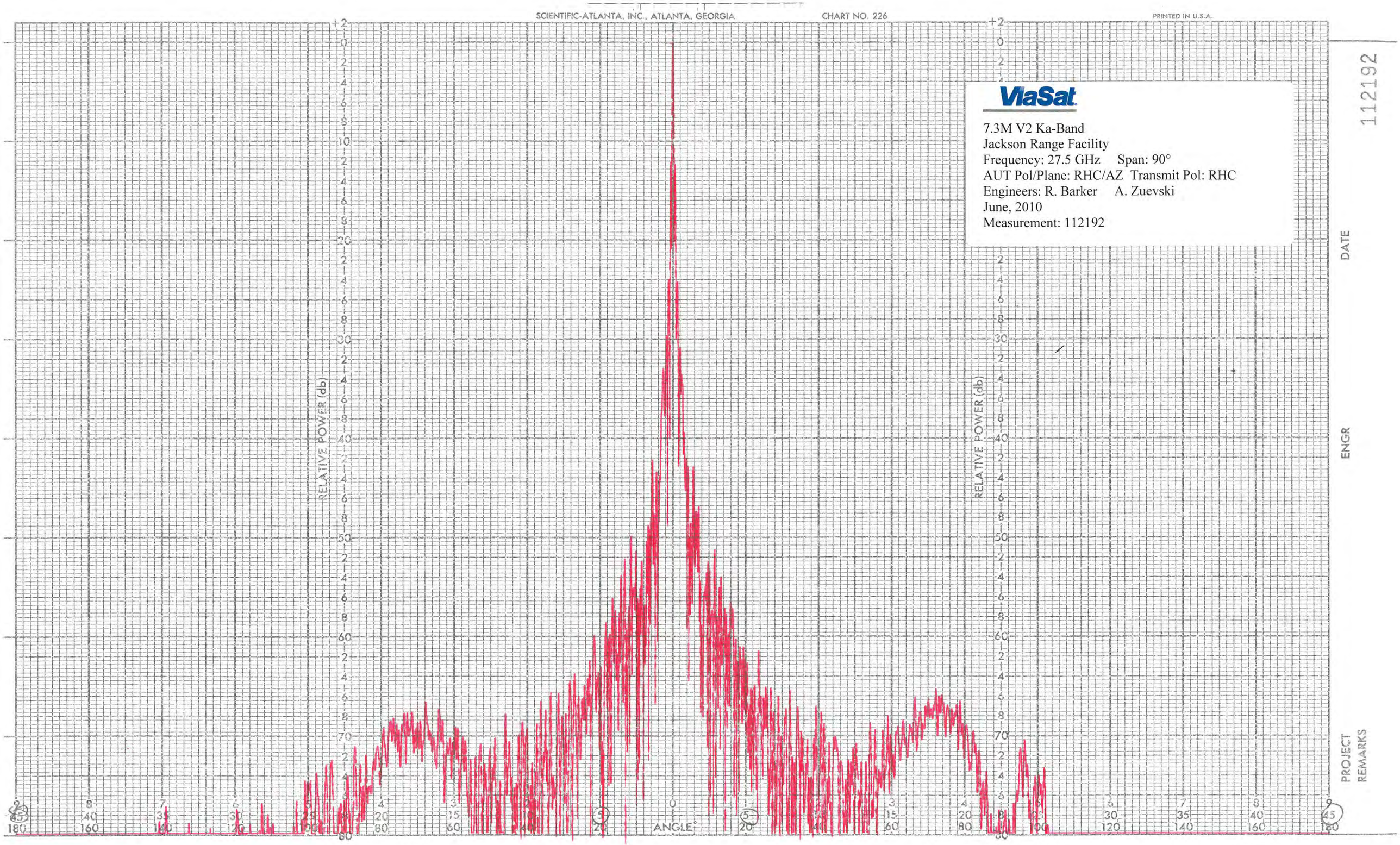
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 27.5 GHz Span: 360°
AUT Pol/Plane: RHC/AZ Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112193
112193
DATE
ENGR
PROJECT
REMARKS
RELATIVE POWER (db)
ANGLE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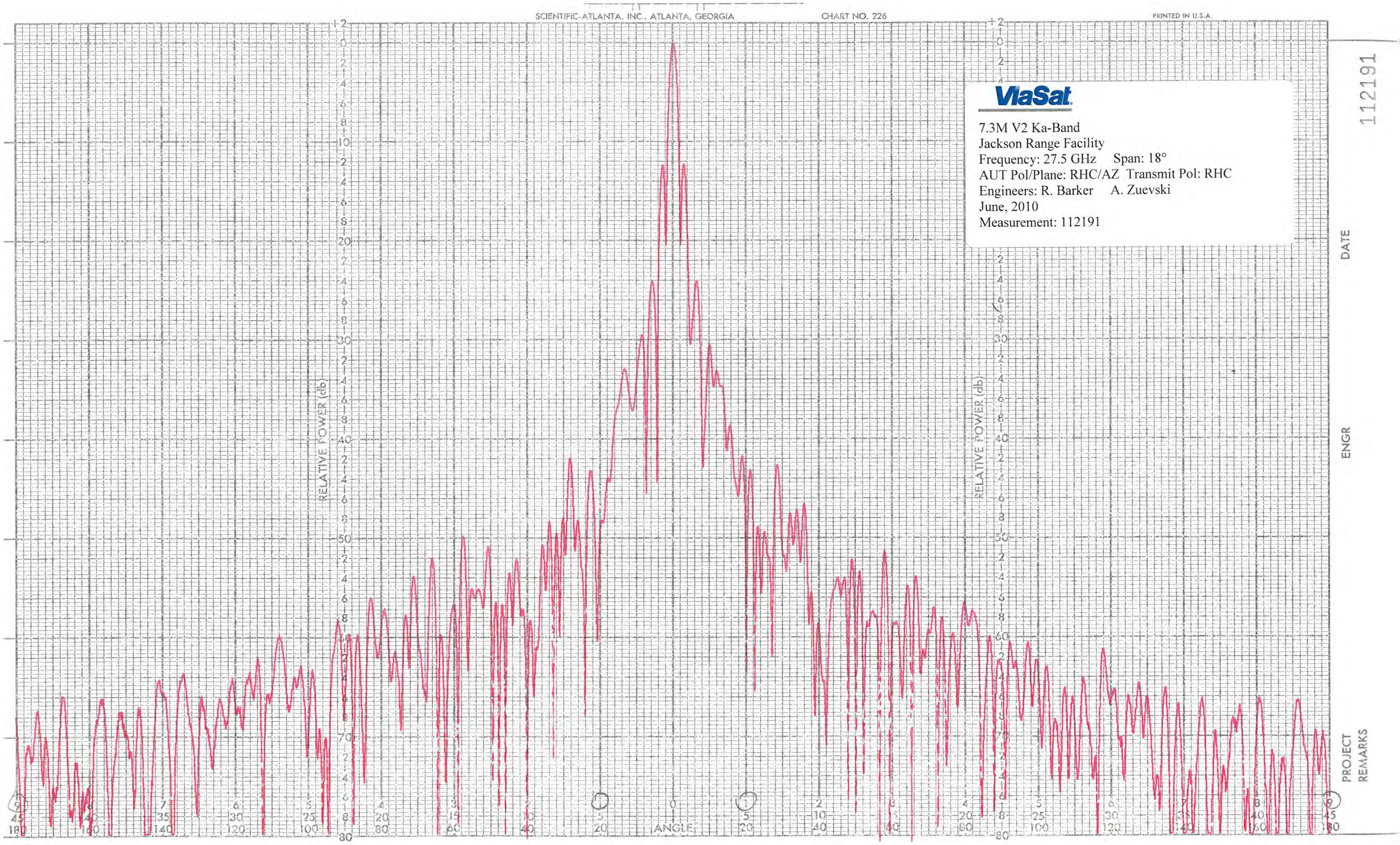
Frequency: 27.5 GHz Span: 90°
AUT Pol/Plane: RHC/AZ Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112192
RELATIVE POWER (db)
ANGLE°
112192
DATE
ENGR
PROJECT
REMARKS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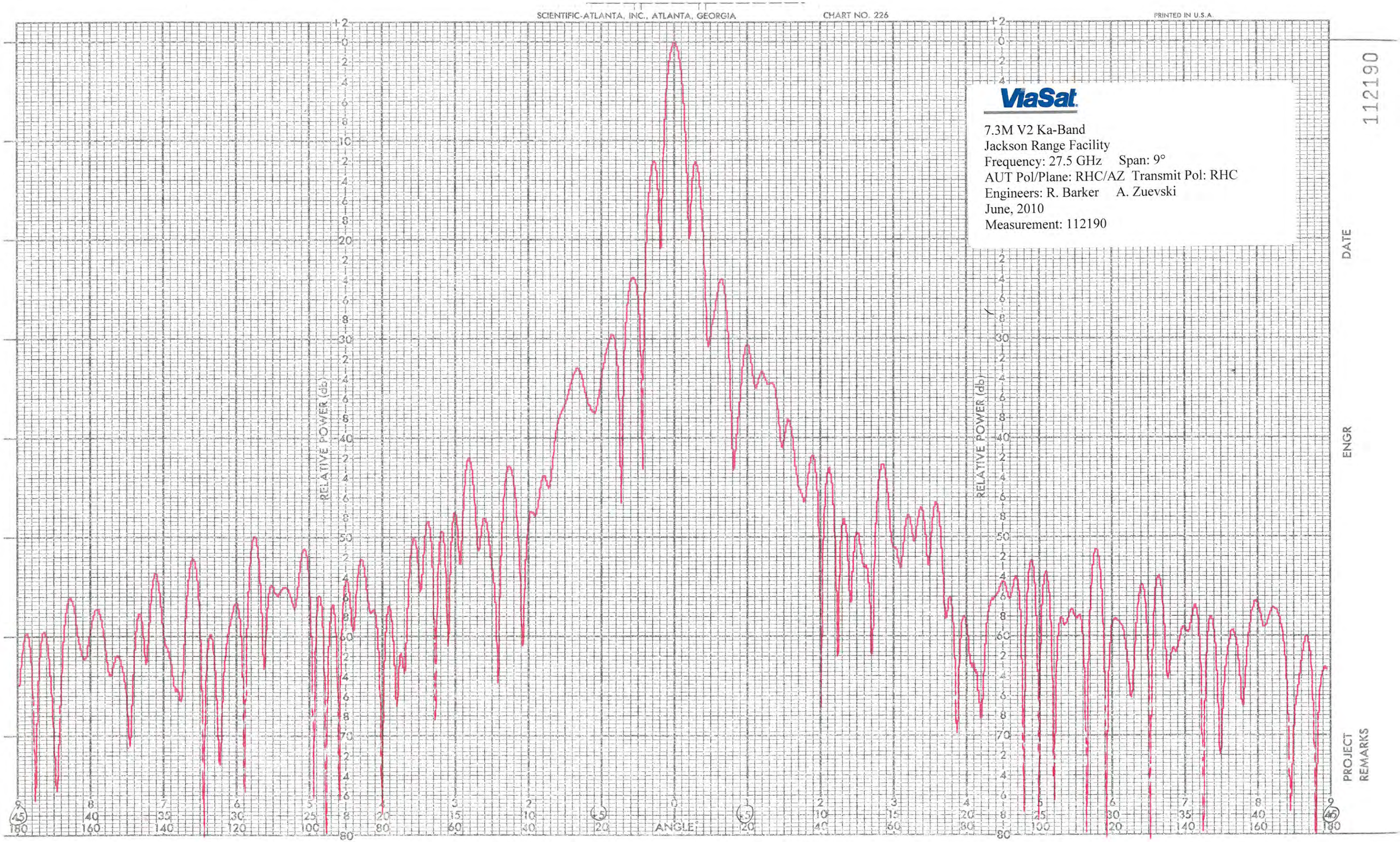
Jackson Range Facility
Frequency: 27.5 GHz Span: 18°
AUT Pol/Plane: RHC/AZ Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112191
RELATIVE POWER (db)
ANGLE
112191
DATE
ENGR
PROJECT
REMARKS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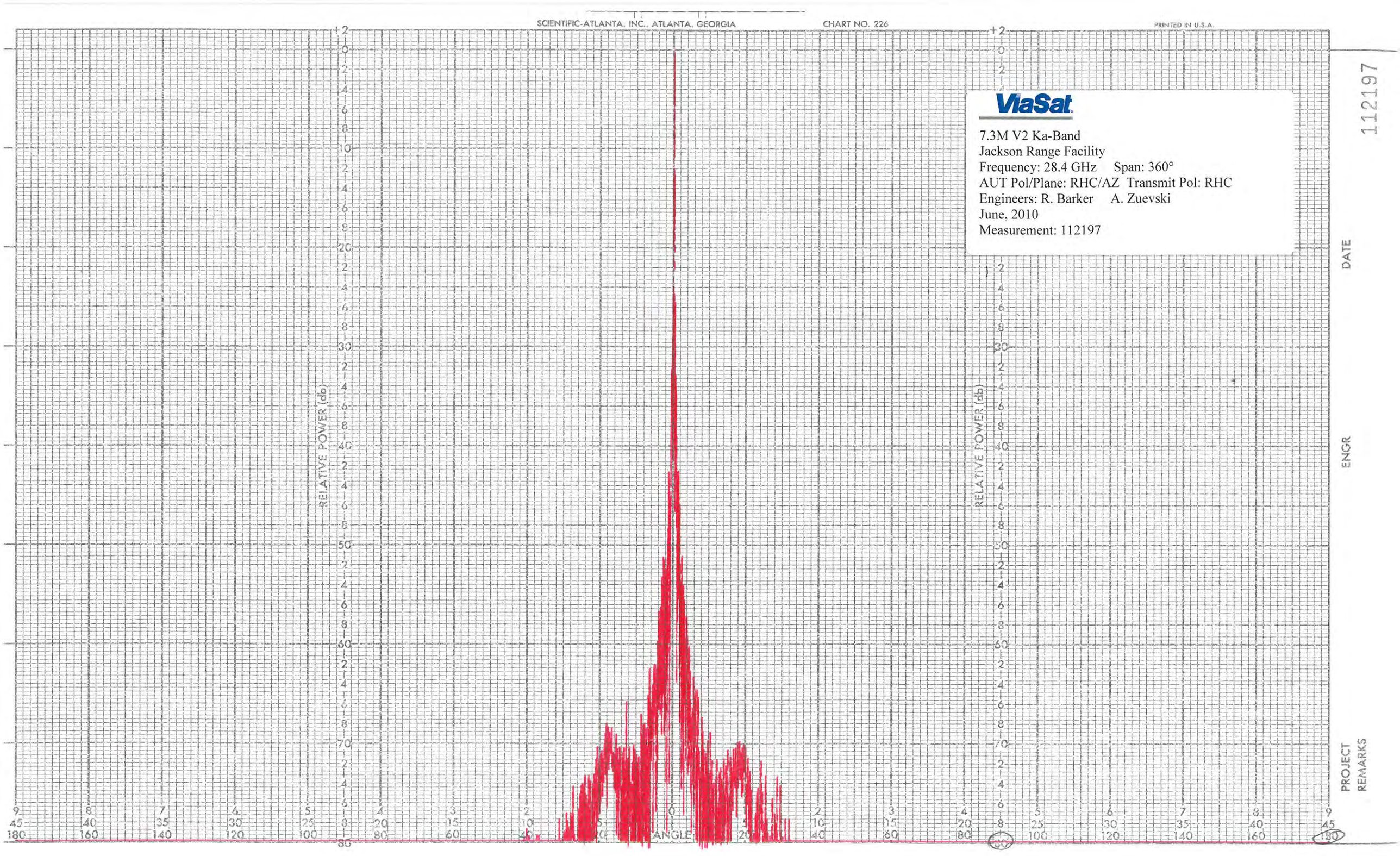
Frequency: 27.5 GHz Span: 9°
AUT Pol/Plane: RHC/AZ Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112190
RELATIVE POWER (db)
ANGLE°
112190
DATE
ENGR
PROJECT
REMARKS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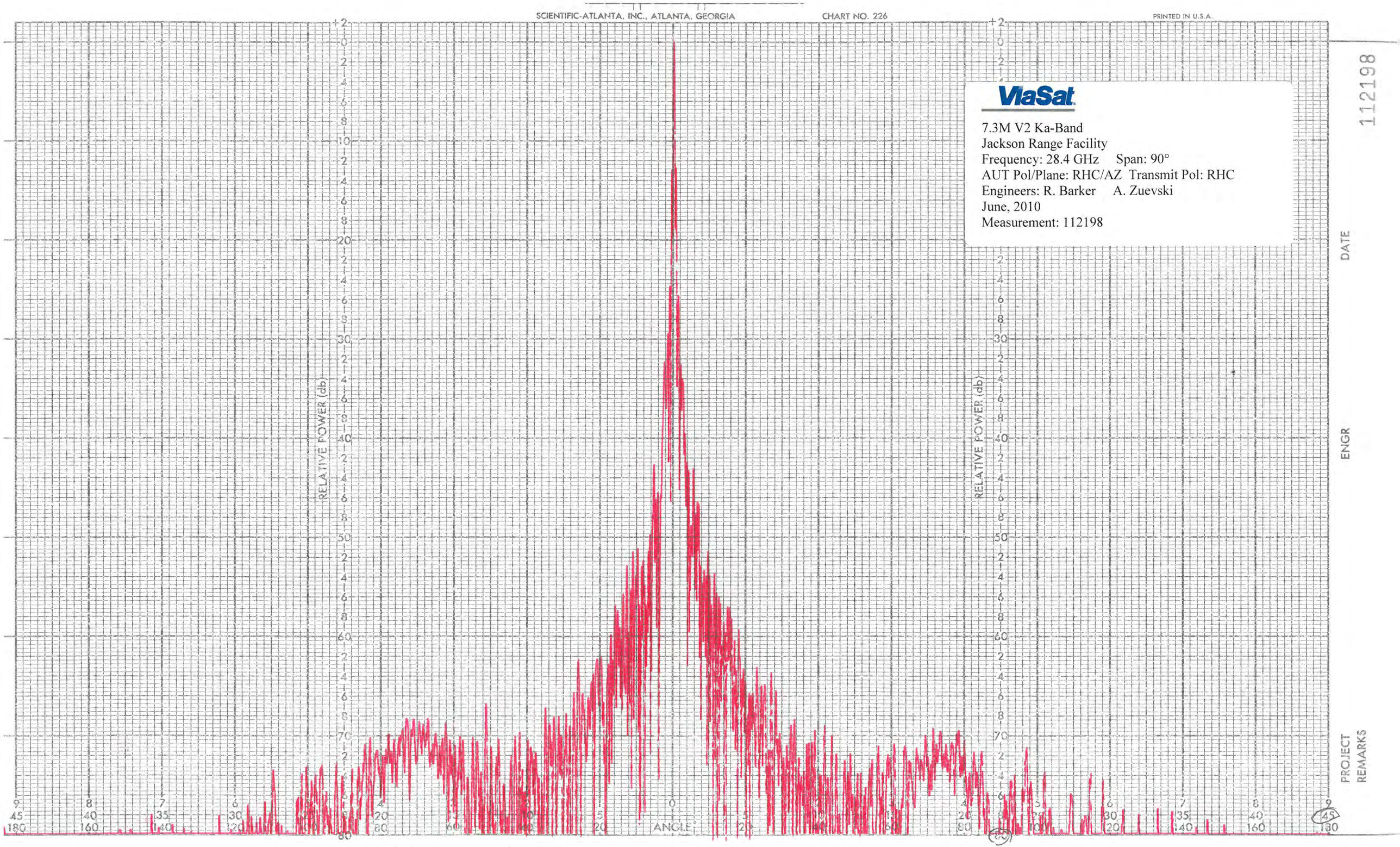
Jackson Range Facility
Frequency: 28.4 GHz Span: 360°
AUT Pol/Plane: RHC/AZ Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112197
RELATIVE POWER (db)
ANGLE
112197
DATE
ENGR
PROJECT
REMARKS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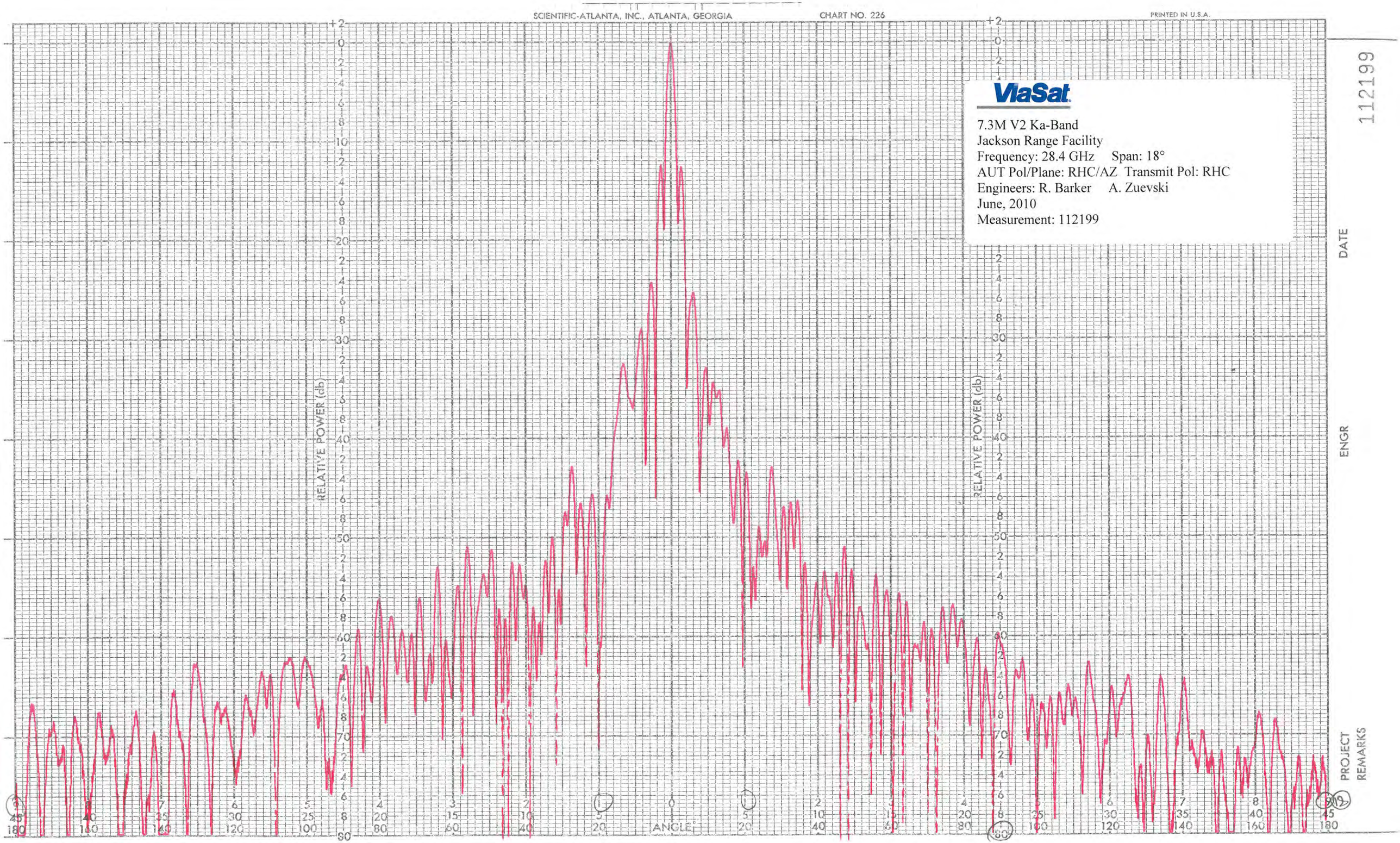
RELATIVE POWER (db)
ANGLE°
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 90°
AUT Pol/Plane: RHC/AZ Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112198
112198
DATE
ENGR
PROJECT
REMARKS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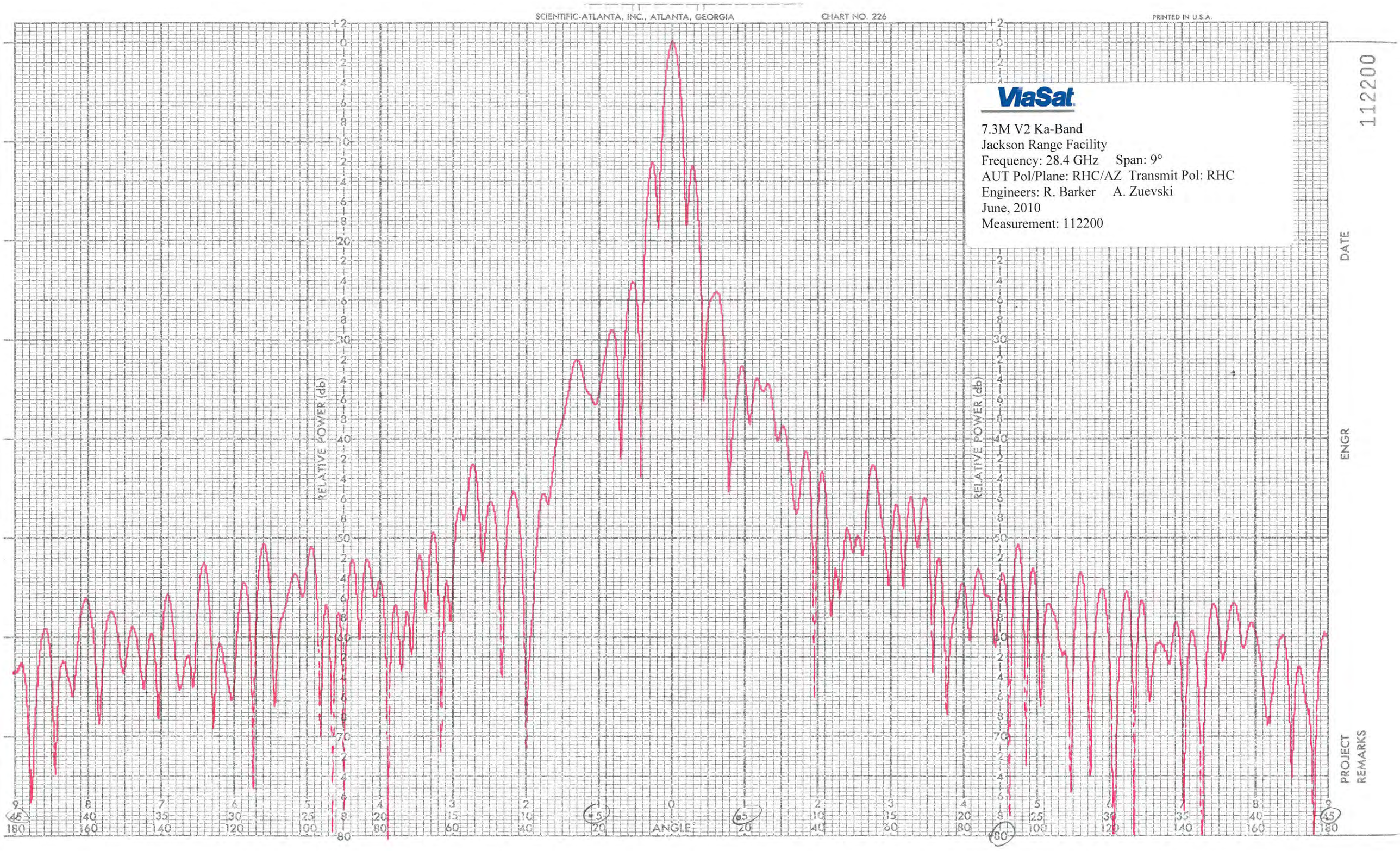
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 18°
AUT Pol/Plane: RHC/AZ Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112199
RELATIVE POWER (db)
ANGLE°
112199
DATE
ENGR
PROJECT
REMARKS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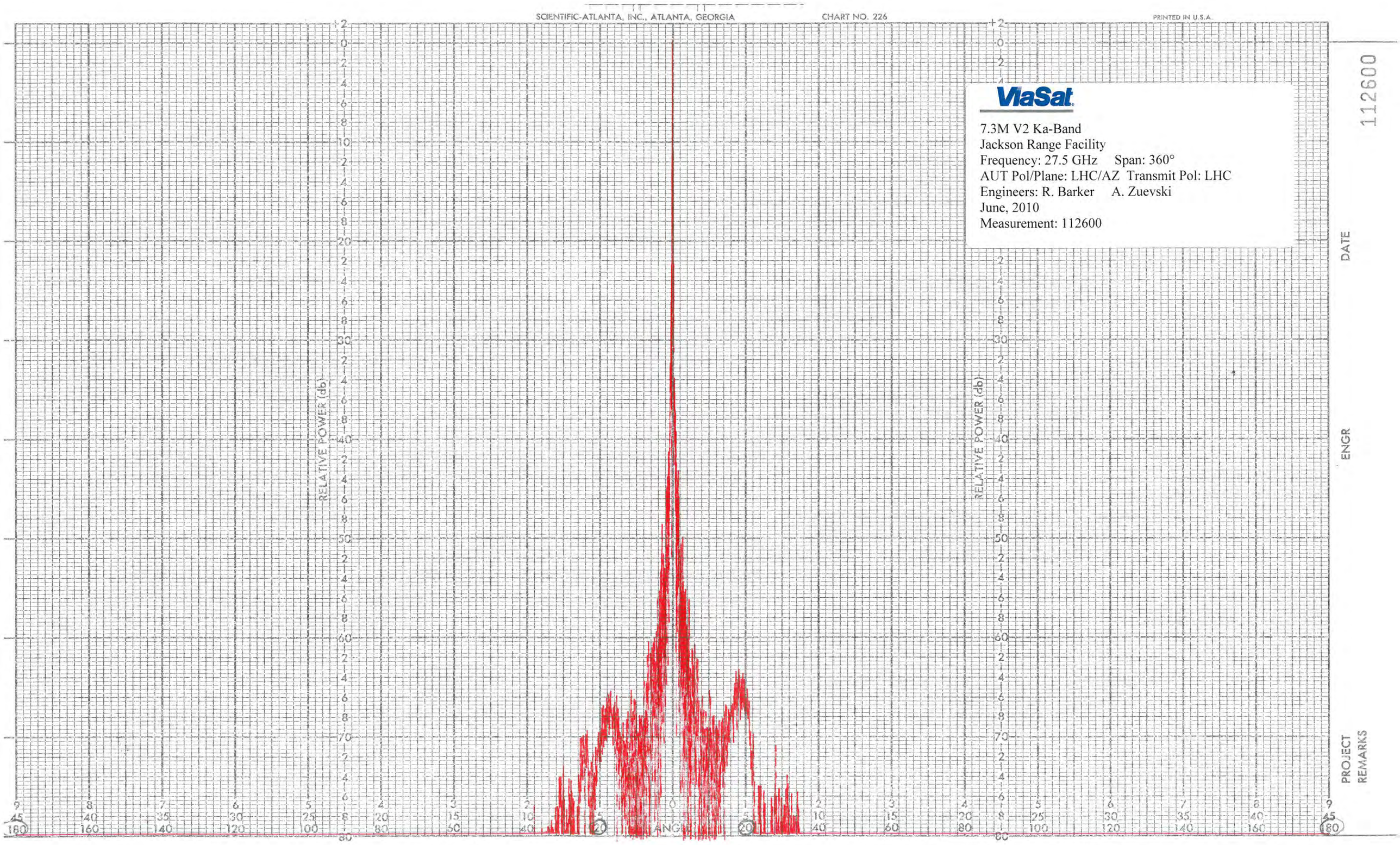
Jackson Range Facility
Frequency: 28.4 GHz Span: 9°
AUT Pol/Plane: RHC/AZ Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112200
112200
DATE
ENGR
PROJECT
REMARKS
RELATIVE POWER (db)
ANGLE°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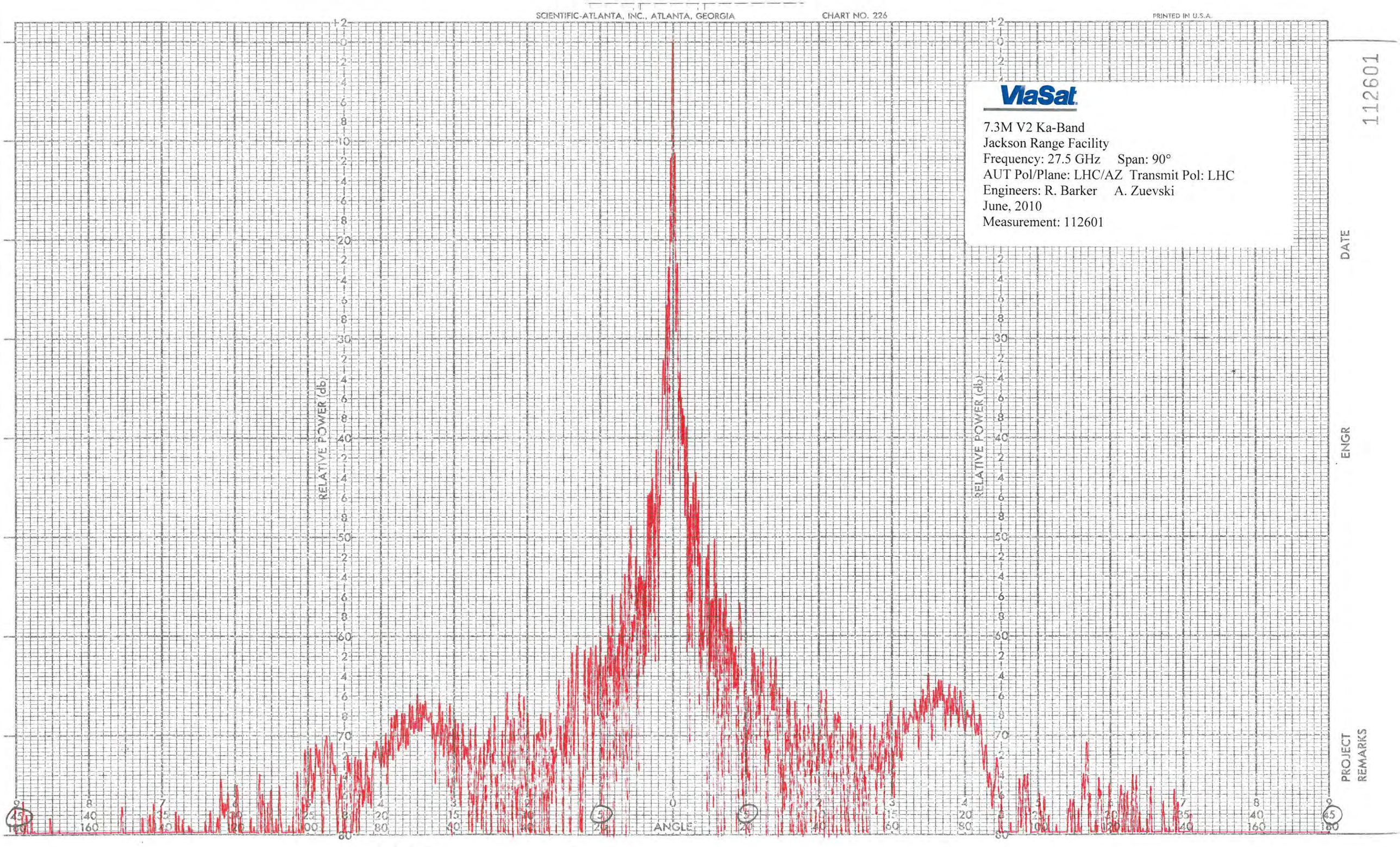
Jackson Range Facility
Frequency: 27.5 GHz Span: 360°
AUT Pol/Plane: LHC/AZ Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112600
RELATIVE POWER (db)
ANGLE
112600
DATE
ENGR
PROJECT
REMARKS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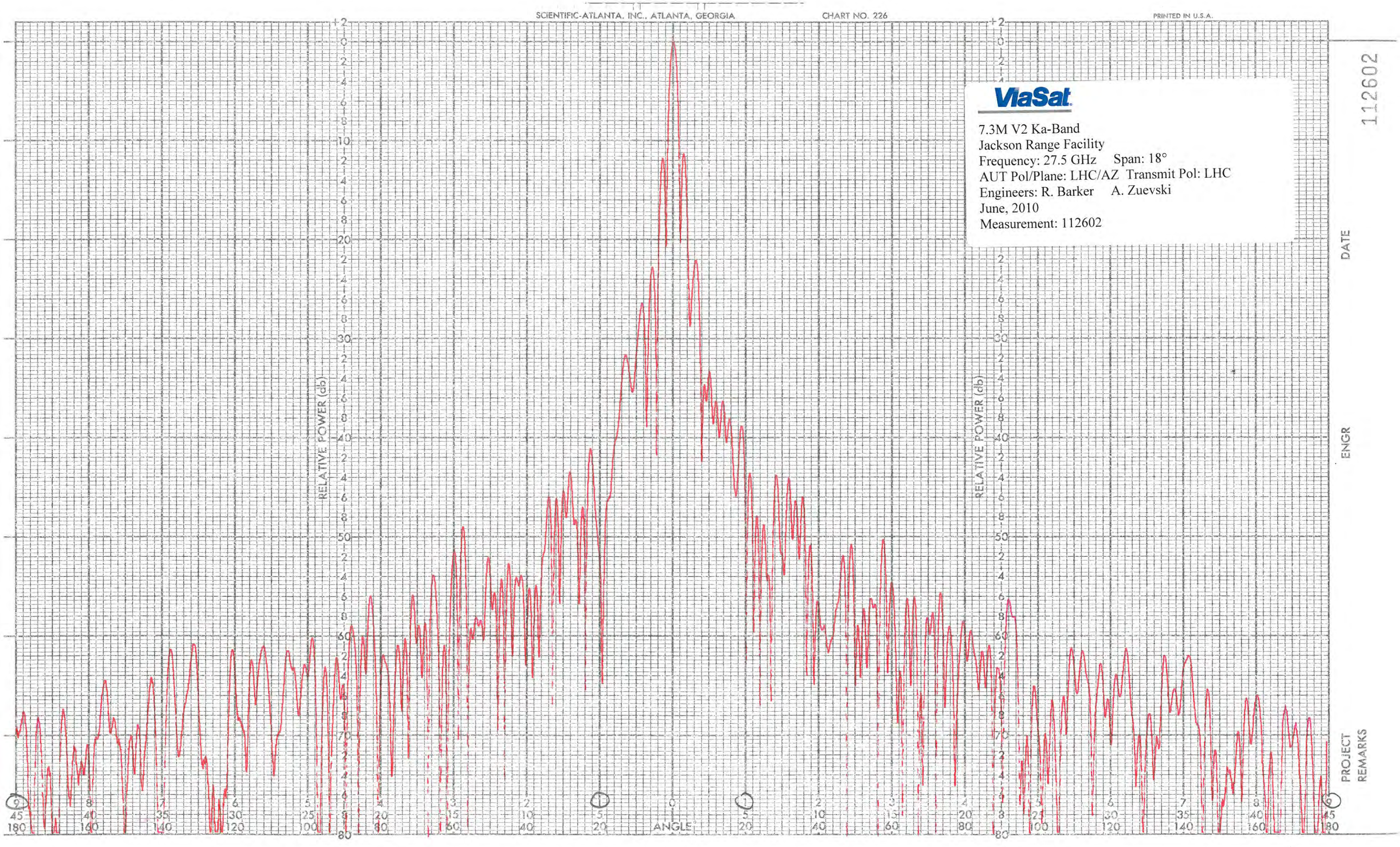
Frequency: 27.5 GHz Span: 90°
AUT Pol/Plane: LHC/AZ Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112601
112601
DATE
ENGR
PROJECT
REMARKS
RELATIVE POWER (db)
ANGLE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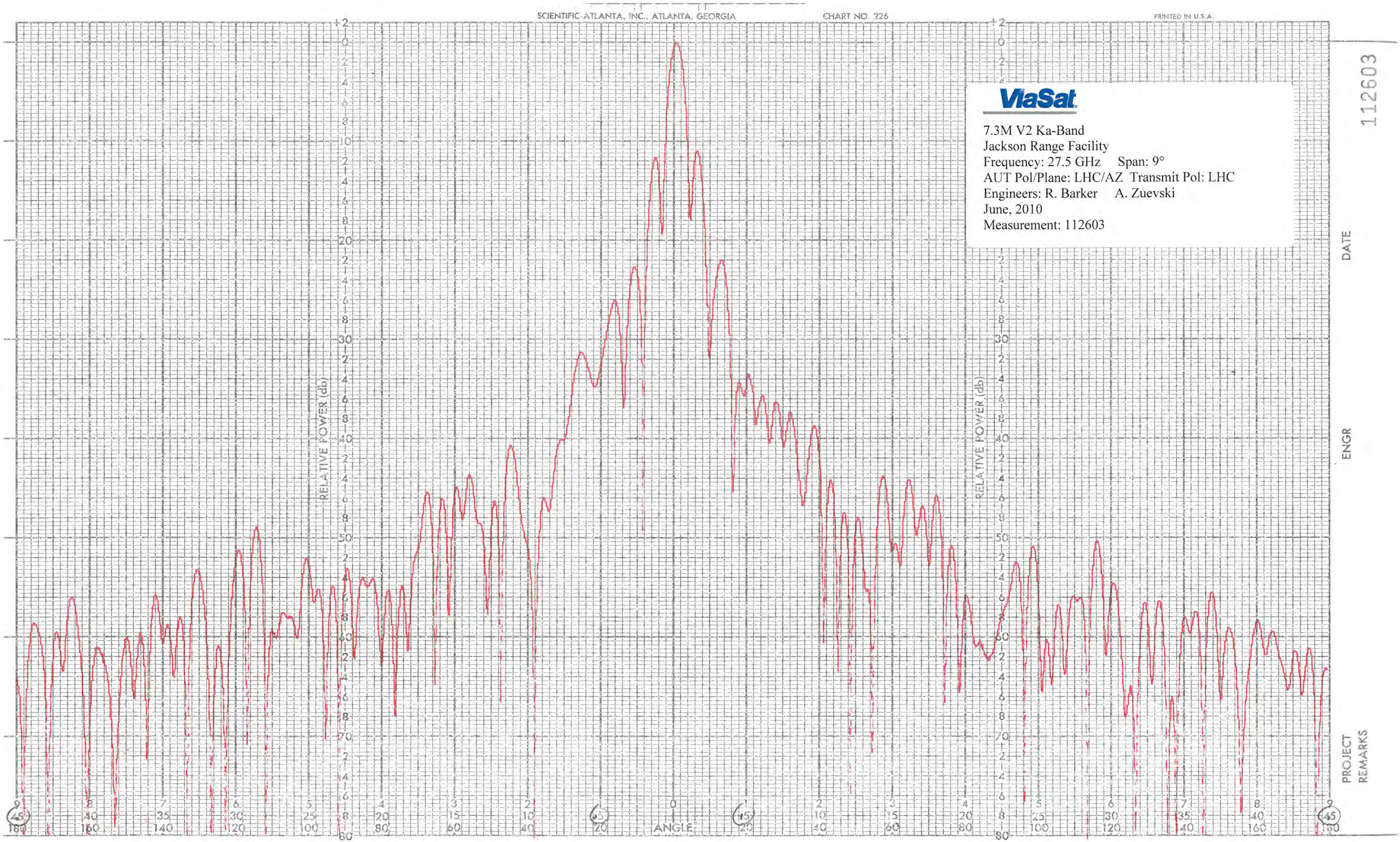
Jackson Range Facility
Frequency: 27.5 GHz Span: 18°
AUT Pol/Plane: LHC/AZ Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112602
RELATIVE POWER (db)
ANGLE
112602
DATE
ENGR
PROJECT
REMARKS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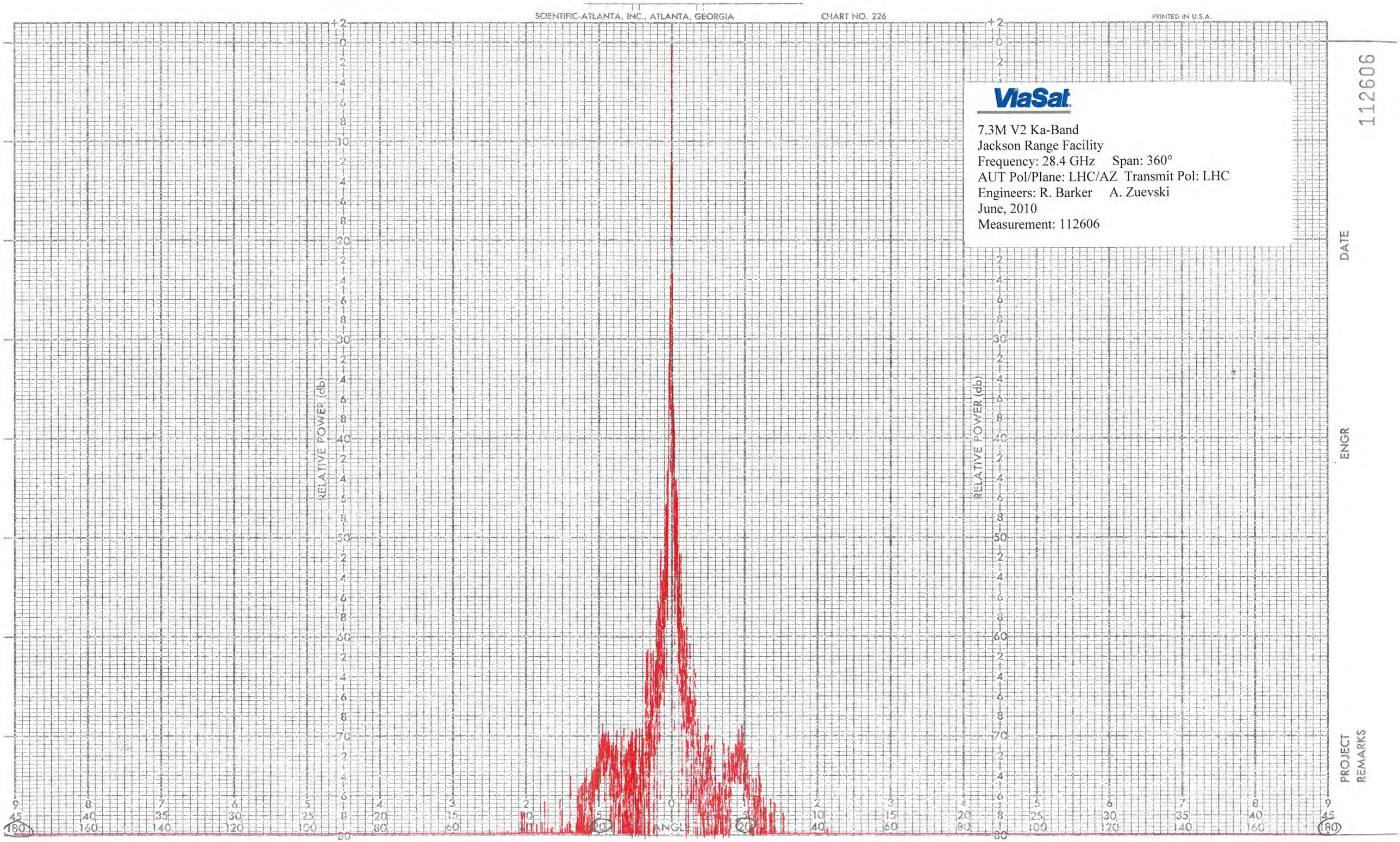
Jackson Range Facility
Frequency: 27.5 GHz Span: 9°
AUT Pol/Plane: LHC/AZ Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112603
RELATIVE POWER (db)
ANGLE°
112603
DATE
ENGR
PROJECT
REMARKS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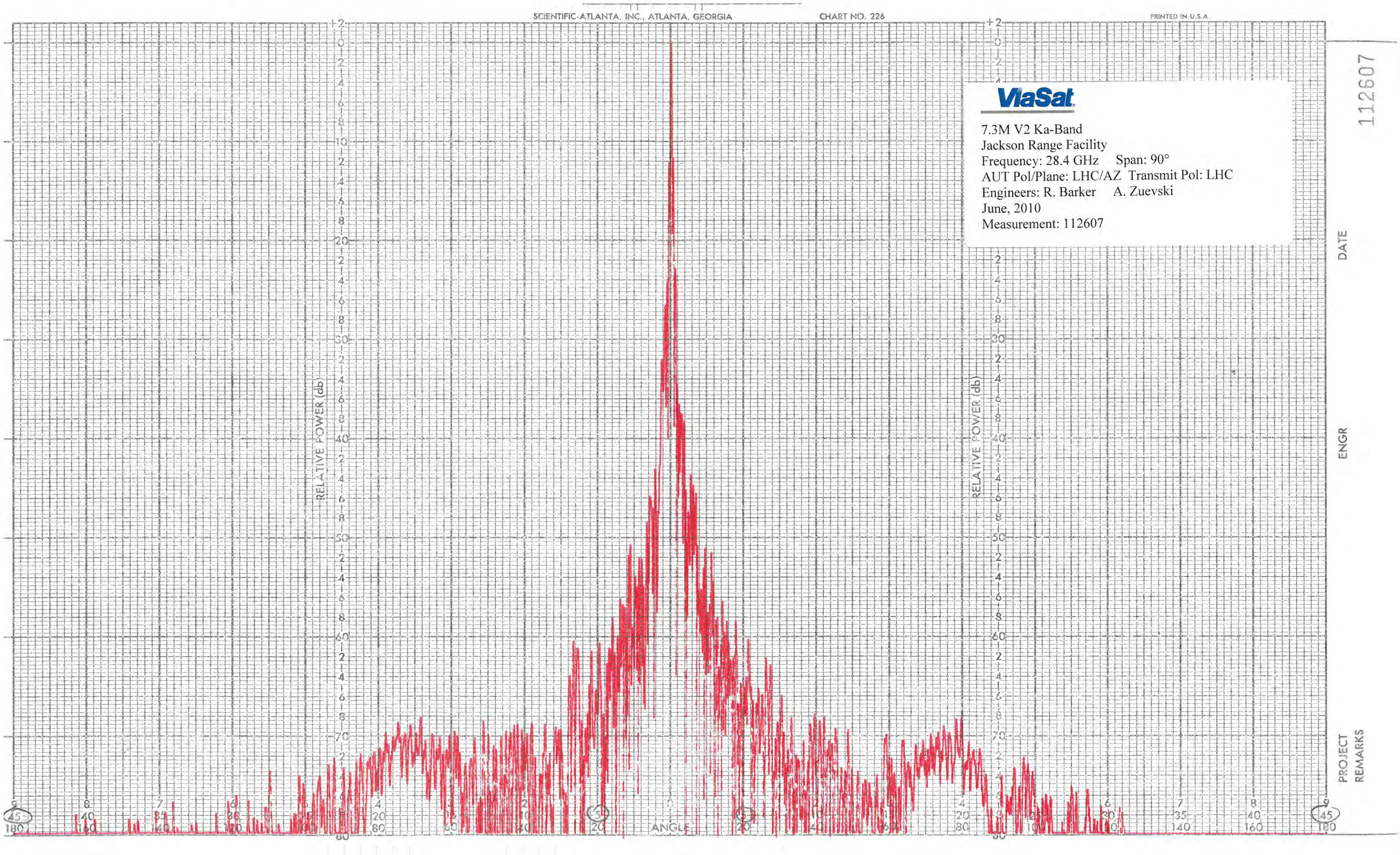
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 360°
AUT Pol/Plane: LHC/AZ Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112606
RELATIVE POWER (db)
ANGLE
112606
DATE
ENGR
PROJECT
REMARKS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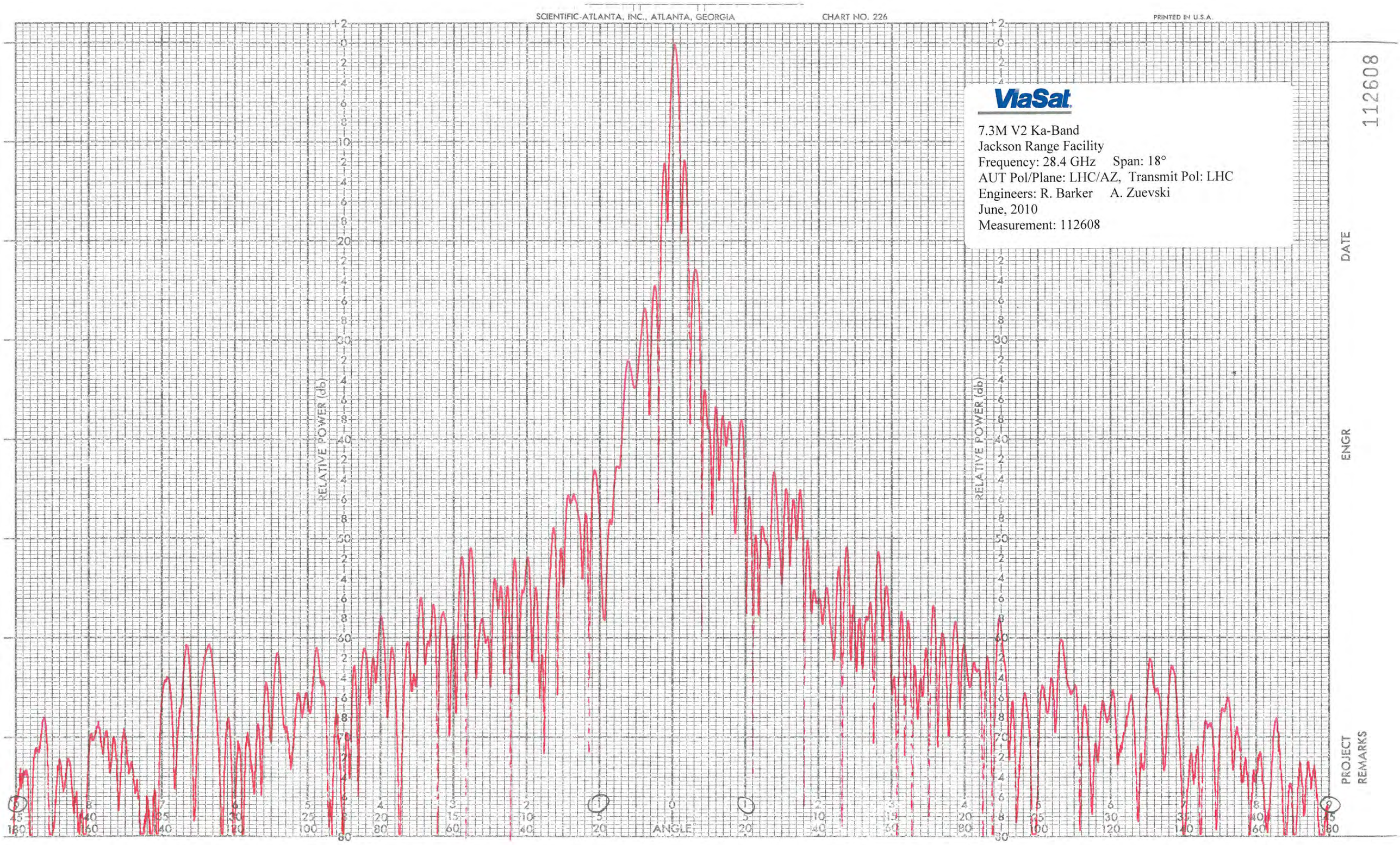
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 90°
AUT Pol/Plane: LHC/AZ Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112607
112607
DATE
ENGR
PROJECT
REMARKS
RELATIVE POWER (db)
ANGLE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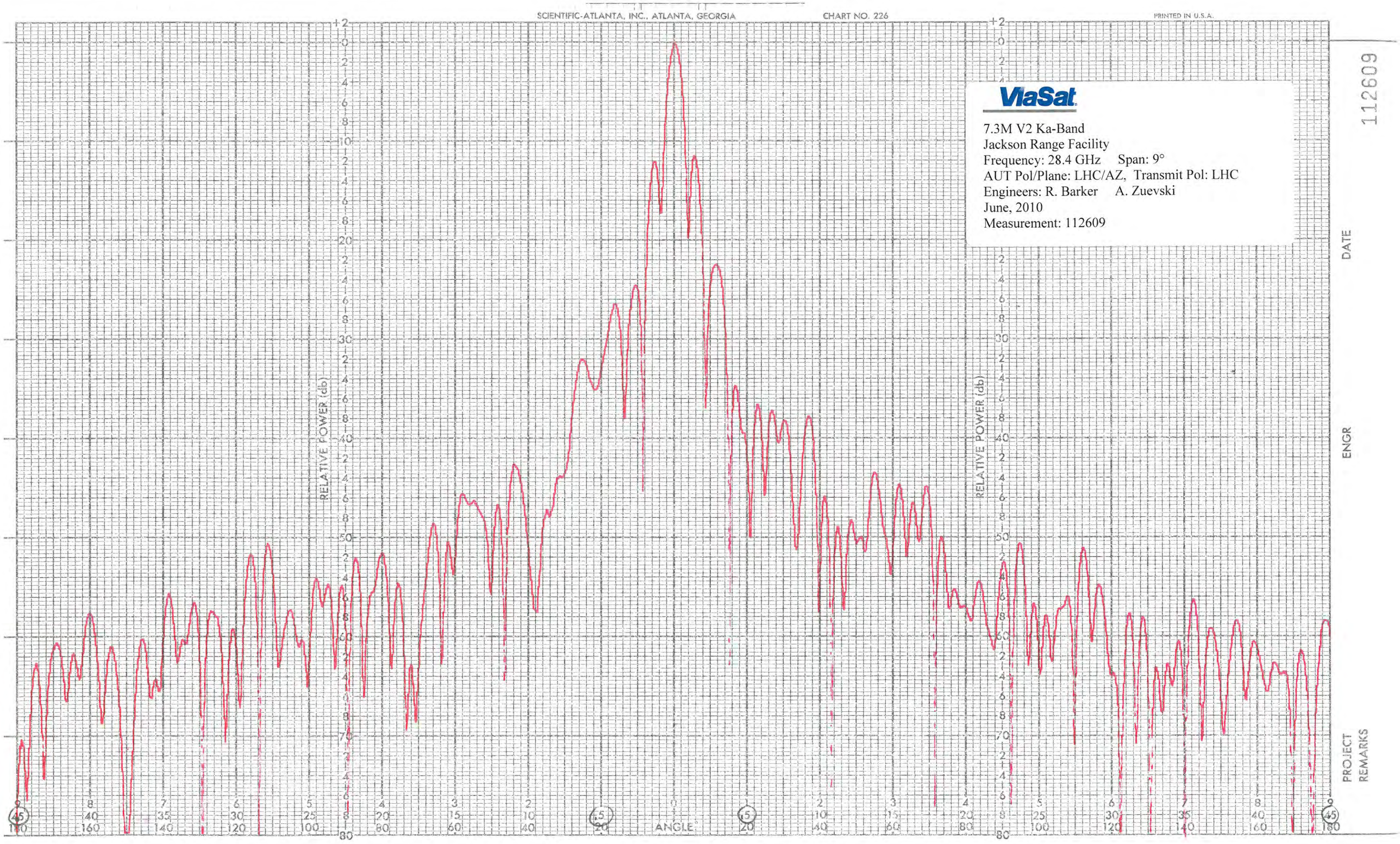
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 18°
AUT Pol/Plane: LHC/AZ, Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112608
RELATIVE POWER (db)
ANGLE
112608
DATE
ENGR
PROJECT
REMARKS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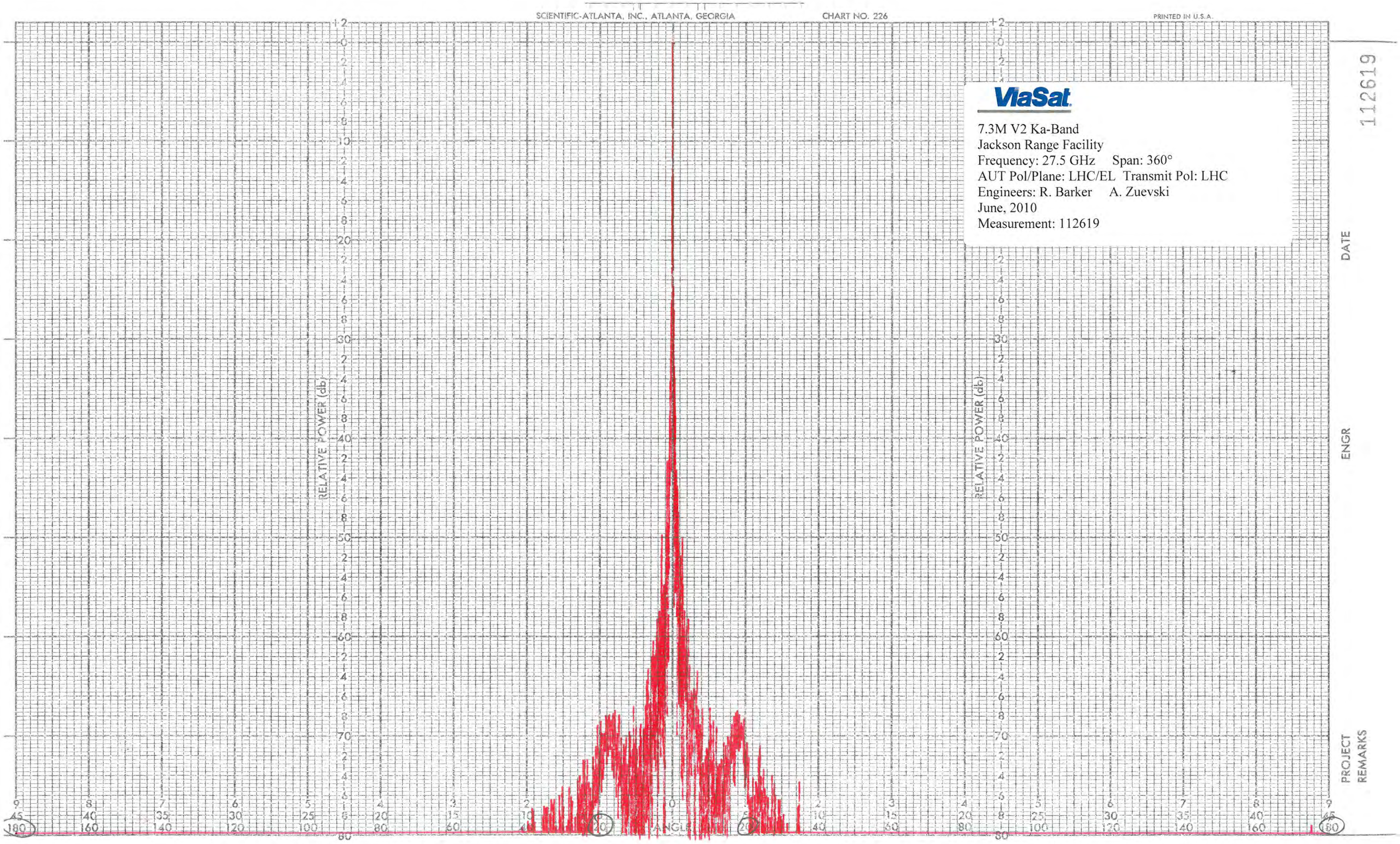
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 9°
AUT Pol/Plane: LHC/AZ, Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112609
RELATIVE POWER (db)
ANGLE
112609
DATE
ENGR
PROJECT
REMARKS

Transmit Patterns (Elevation)

Transmit circular patterns were measured at four frequencies in two orthogonal reflector cuts at 9,18,90 and 360 degree expansions. LHC and RHC patterns were measured using a circularly polarized corrugated horn transmit source.

Test	Freq	AUT Pol	AUT Plane	SPAN	Amp Scale	Tx Pol	Tx Dia. (Ft)	Range Setup	Pattern #	Notes:
Transmit Patterns EL	27.5	LHC	El	360	80	LHC	Corr hrn	Elevated	112619	
	27.5	LHC	El	90	80	LHC	Corr hrn	Elevated	112620	
	27.5	LHC	El	18	80	LHC	Corr hrn	Elevated	112621	
	27.5	LHC	El	9	80	LHC	Corr hrn	Elevated	112622	
	28.4	LHC	El	360	80	LHC	Corr hrn	Elevated	112623	
	28.4	LHC	El	90	80	LHC	Corr hrn	Elevated	112624	
	28.4	LHC	El	18	80	LHC	Corr hrn	Elevated	112625	
	28.4	LHC	El	9	80	LHC	Corr hrn	Elevated	112626	
	29.10	LHC	El	360	80	LHC	Corr hrn	Elevated	112627	
	29.10	LHC	El	90	80	LHC	Corr hrn	Elevated	112628	
	29.10	LHC	El	18	80	LHC	Corr hrn	Elevated	112629	
	29.10	LHC	El	9	80	LHC	Corr hrn	Elevated	112630	
	30	LHC	El	360	80	LHC	Corr hrn	Elevated	112631	
	30	LHC	El	90	80	LHC	Corr hrn	Elevated	112632	
	30	LHC	El	18	80	LHC	Corr hrn	Elevated	112633	
	30	LHC	El	9	80	LHC	Corr hrn	Elevated	112634	
	27.5	RHC	El	360	80	RHC	Corr hrn	Elevated	112205	
	27.5	RHC	El	90	80	RHC	Corr hrn	Elevated	112206	
	27.5	RHC	El	18	80	RHC	Corr hrn	Elevated	112207	
	27.5	RHC	El	9	80	RHC	Corr hrn	Elevated	112208	
	28.4	RHC	El	360	80	RHC	Corr hrn	Elevated	112209	
	28.4	RHC	El	90	80	RHC	Corr hrn	Elevated	112211	
	28.4	RHC	El	18	80	RHC	Corr hrn	Elevated	112222	
	28.4	RHC	El	9	80	RHC	Corr hrn	Elevated	112223	
	29.10	RHC	El	360	80	RHC	Corr hrn	Elevated	112224	
	29.10	RHC	El	90	80	RHC	Corr hrn	Elevated	112225	
	29.10	RHC	El	18	80	RHC	Corr hrn	Elevated	112226	
	29.10	RHC	El	9	80	RHC	Corr hrn	Elevated	112227	
	30	RHC	El	360	80	RHC	Corr hrn	Elevated	112641	
	30	RHC	El	90	80	RHC	Corr hrn	Elevated	112642	
	30	RHC	El	18	80	RHC	Corr hrn	Elevated	112643	
	30	RHC	El	9	80	RHC	Corr hrn	Elevated	112644	

ViaSat Proprietary Information



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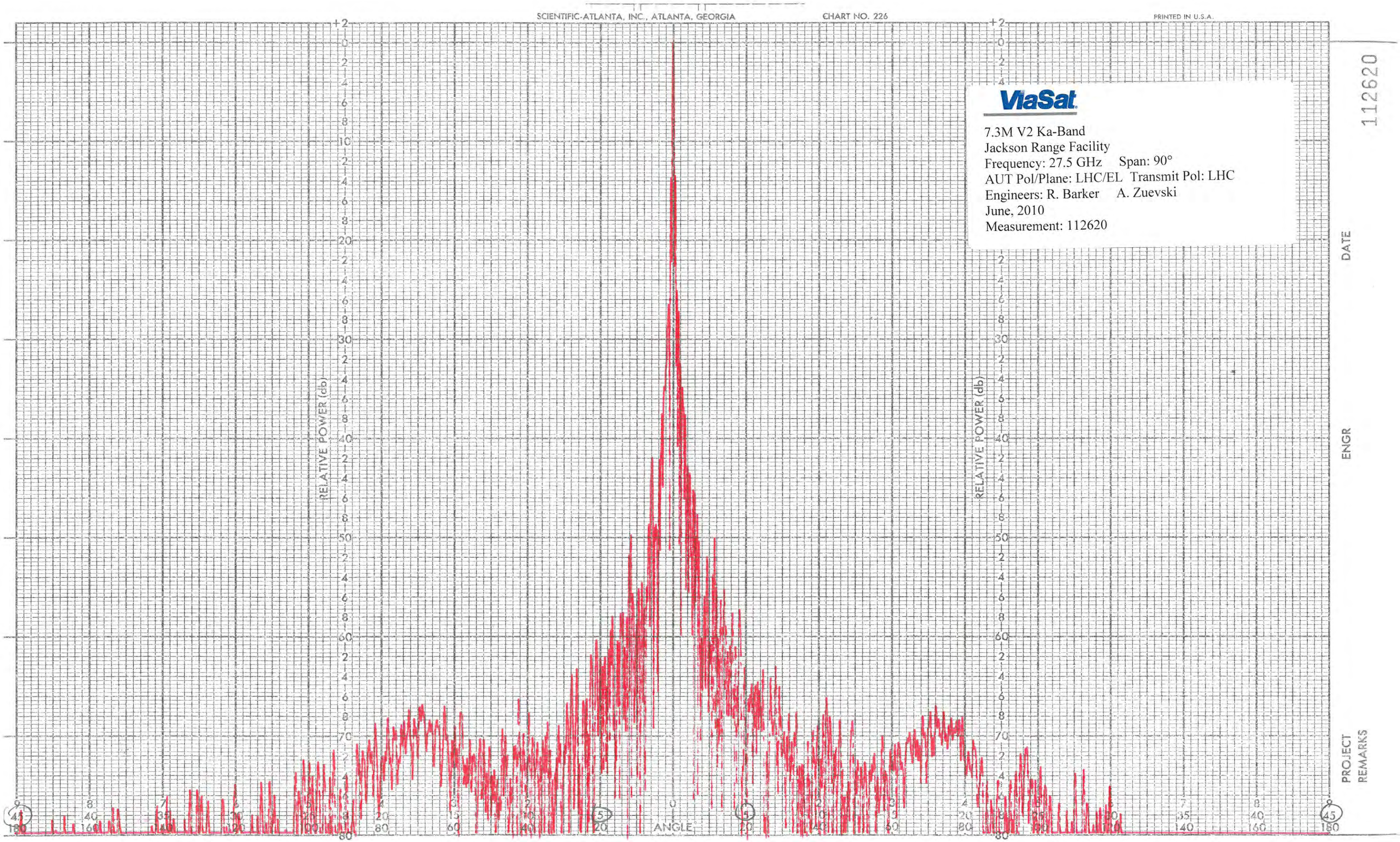
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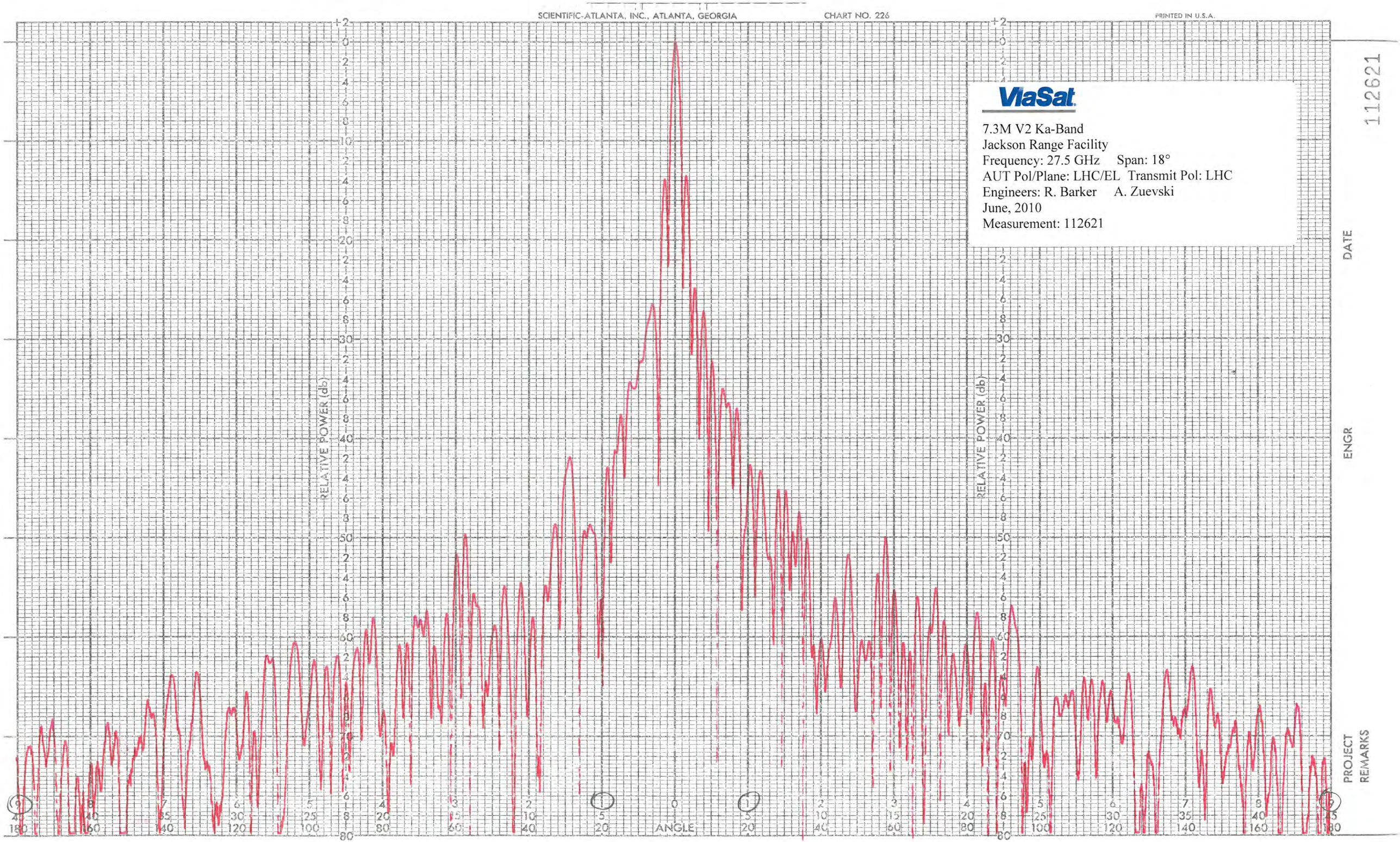
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 27.5 GHz Span: 90°
AUT Pol/Plane: LHC/EL Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112620
RELATIVE POWER (db)
ANGLE°
112620
DATE
ENGR
PROJECT
REMARKS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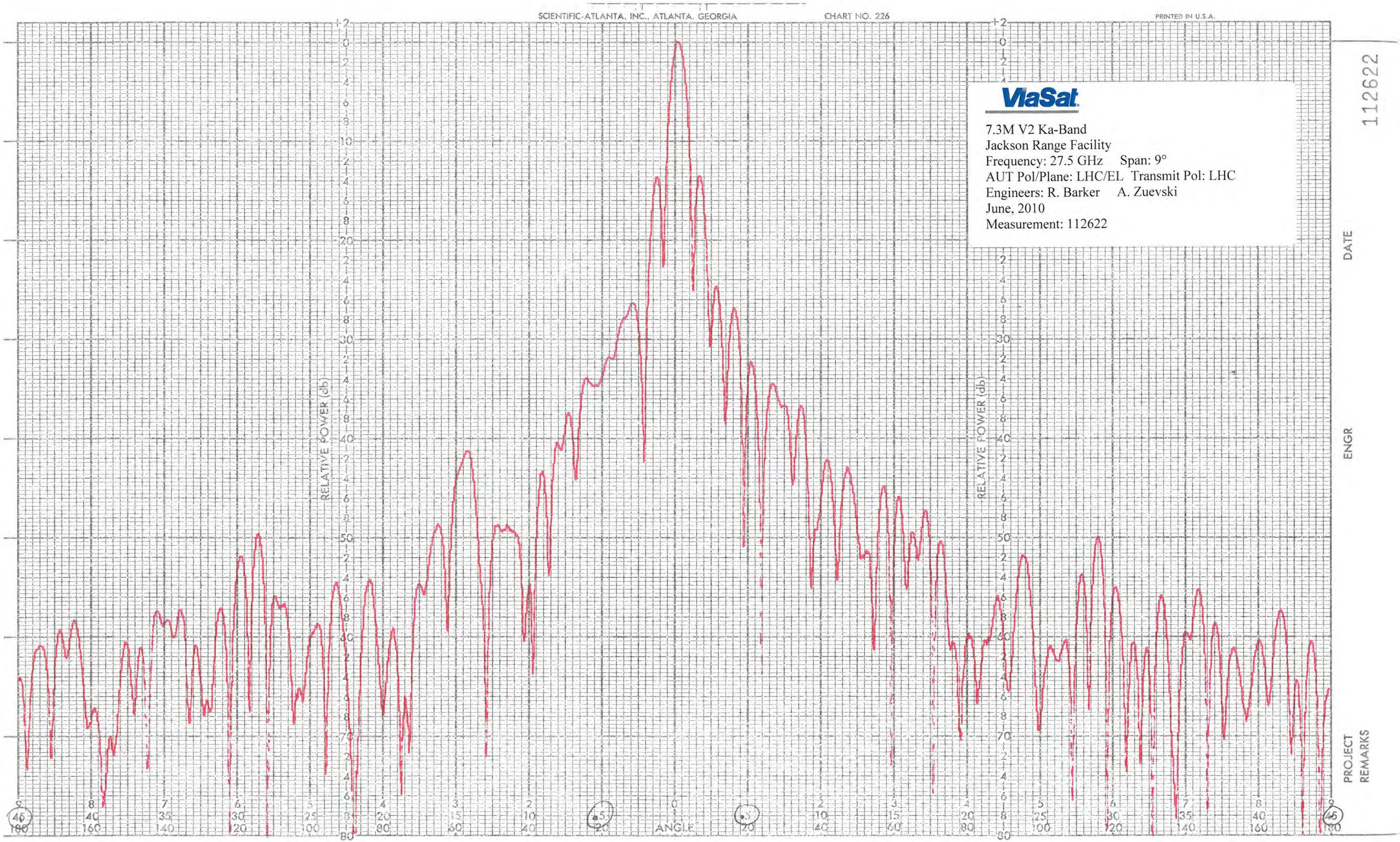
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 27.5 GHz Span: 18°
AUT Pol/Plane: LHC/EL Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112621
RELATIVE POWER (db)
ANGLE°
112621
DATE
ENGR
PROJECT
REMARKS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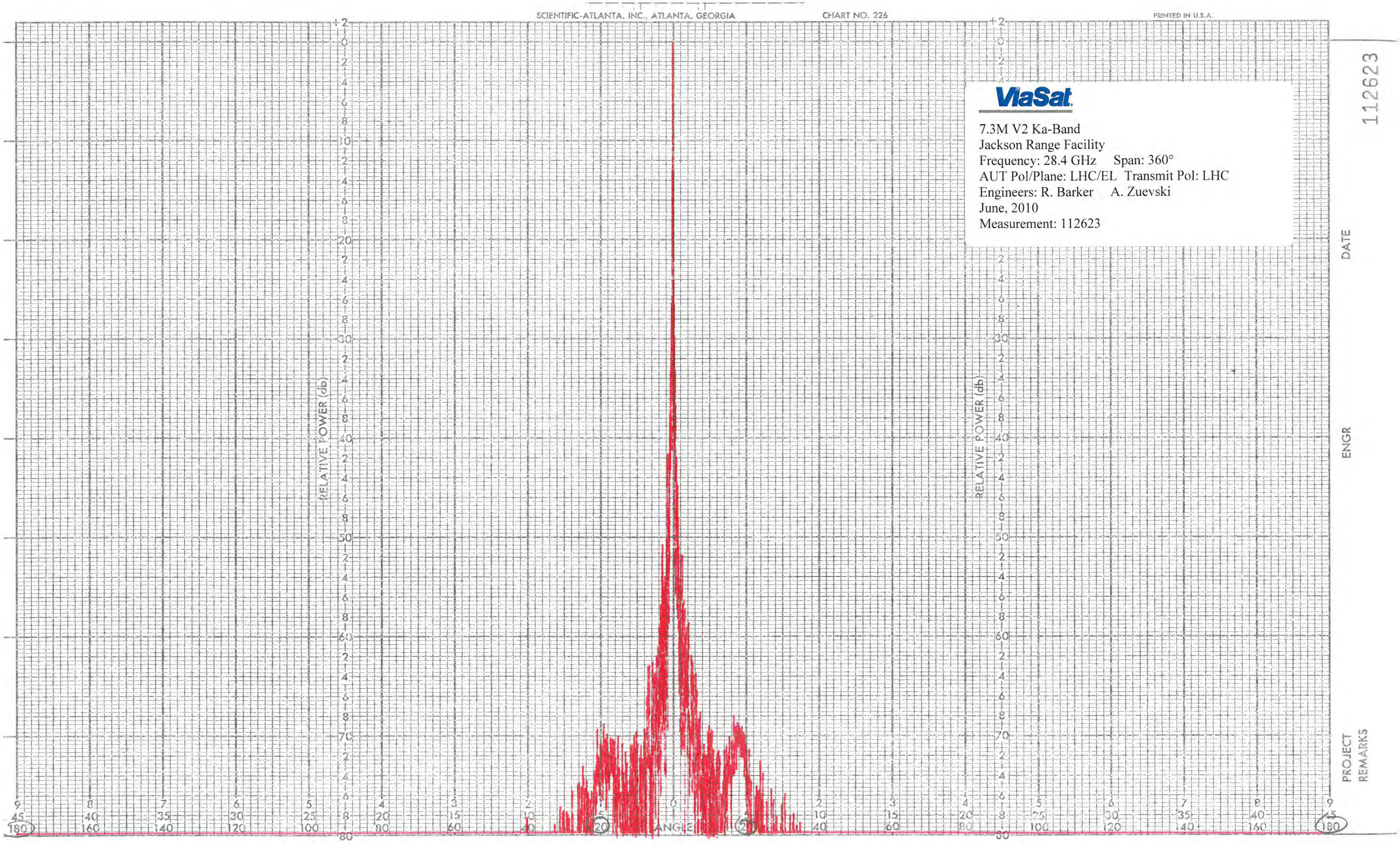
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 27.5 GHz Span: 9°
AUT Pol/Plane: LHC/EL Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112622
RELATIVE POWER (db)
ANGLE°
112622
DATE
ENGR
PROJECT
REMARKS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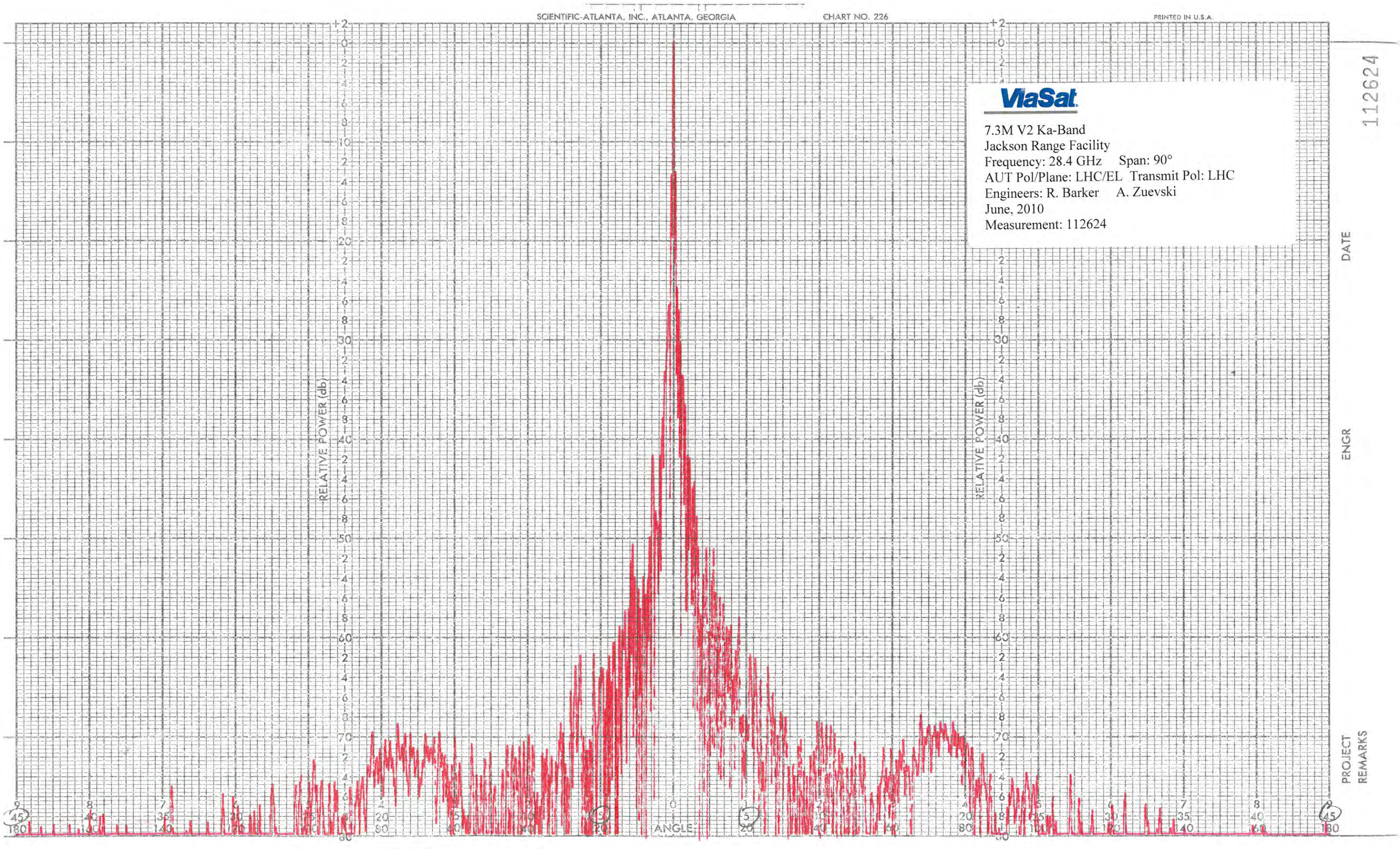
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 360°
AUT Pol/Plane: LHC/EL Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112623
RELATIVE POWER (db)
ANGLE
112623
DATE
ENGR
PROJECT
REMARKS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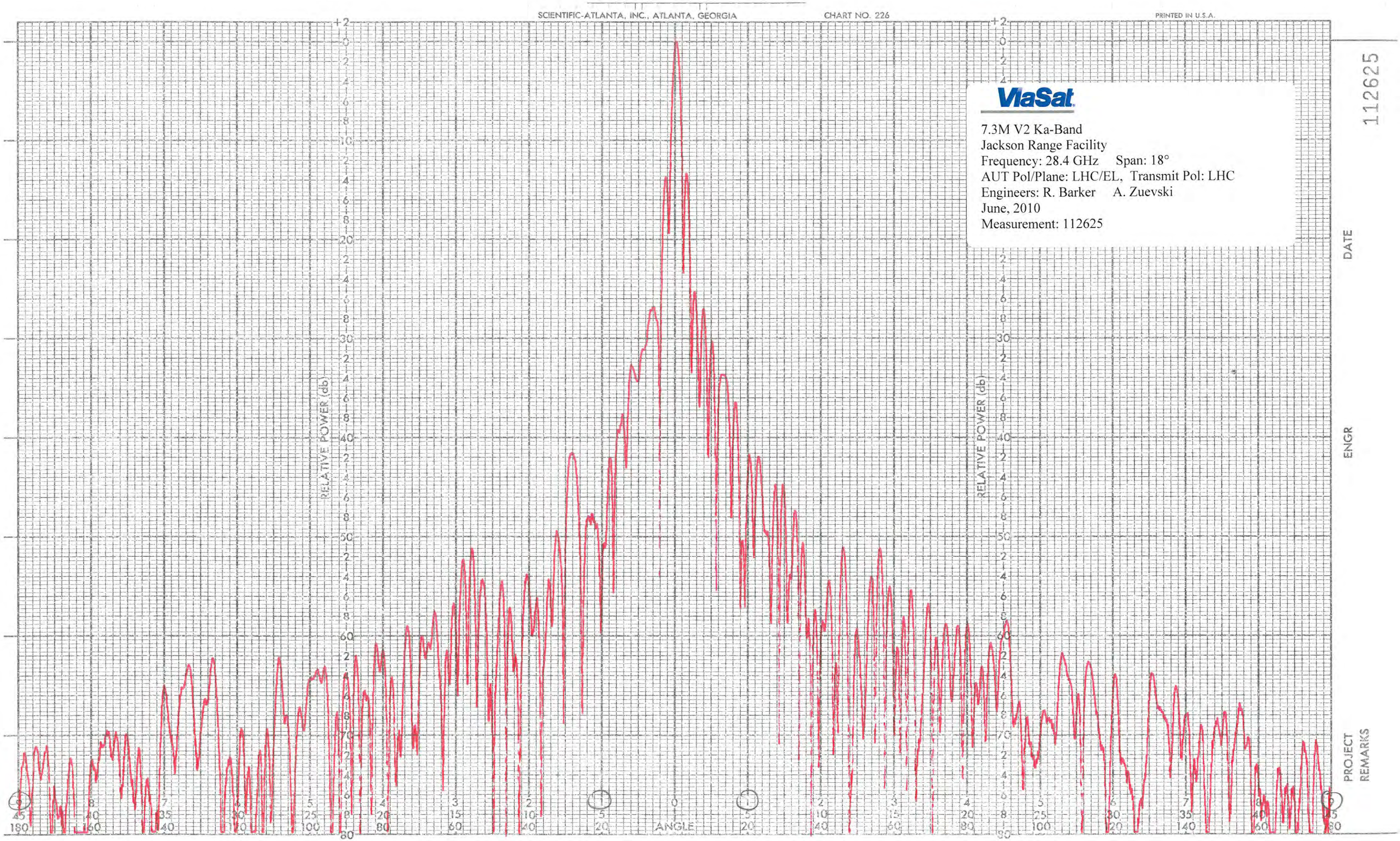
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 90°
AUT Pol/Plane: LHC/EL Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112624
112624
DATE
ENGR
PROJECT
REMARKS
RELATIVE POWER (db)
ANGLE°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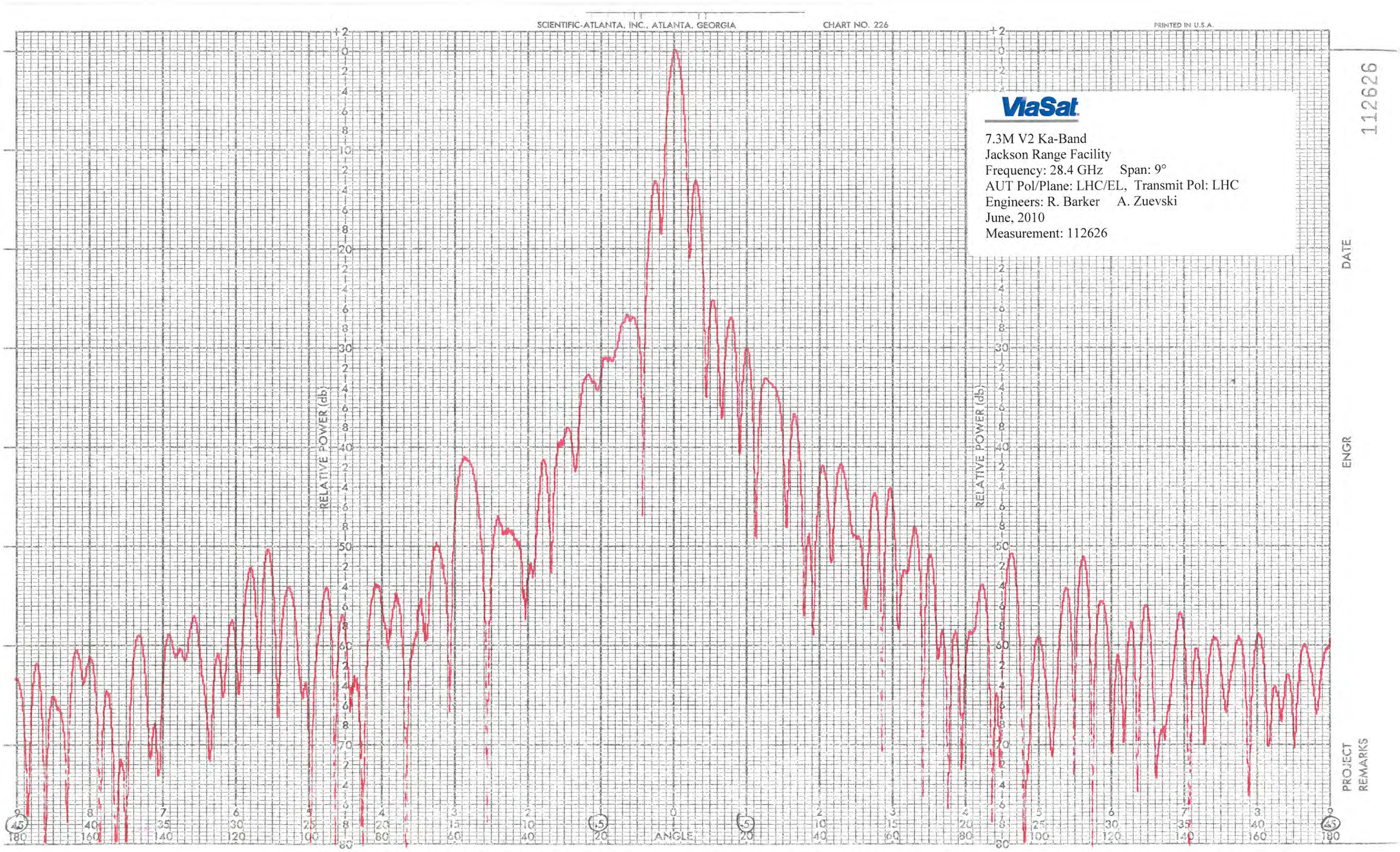
RELATIVE POWER (db)
ANGLE°
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 18°
AUT Pol/Plane: LHC/EL, Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112625
112625
DATE
ENGR
PROJECT
REMARKS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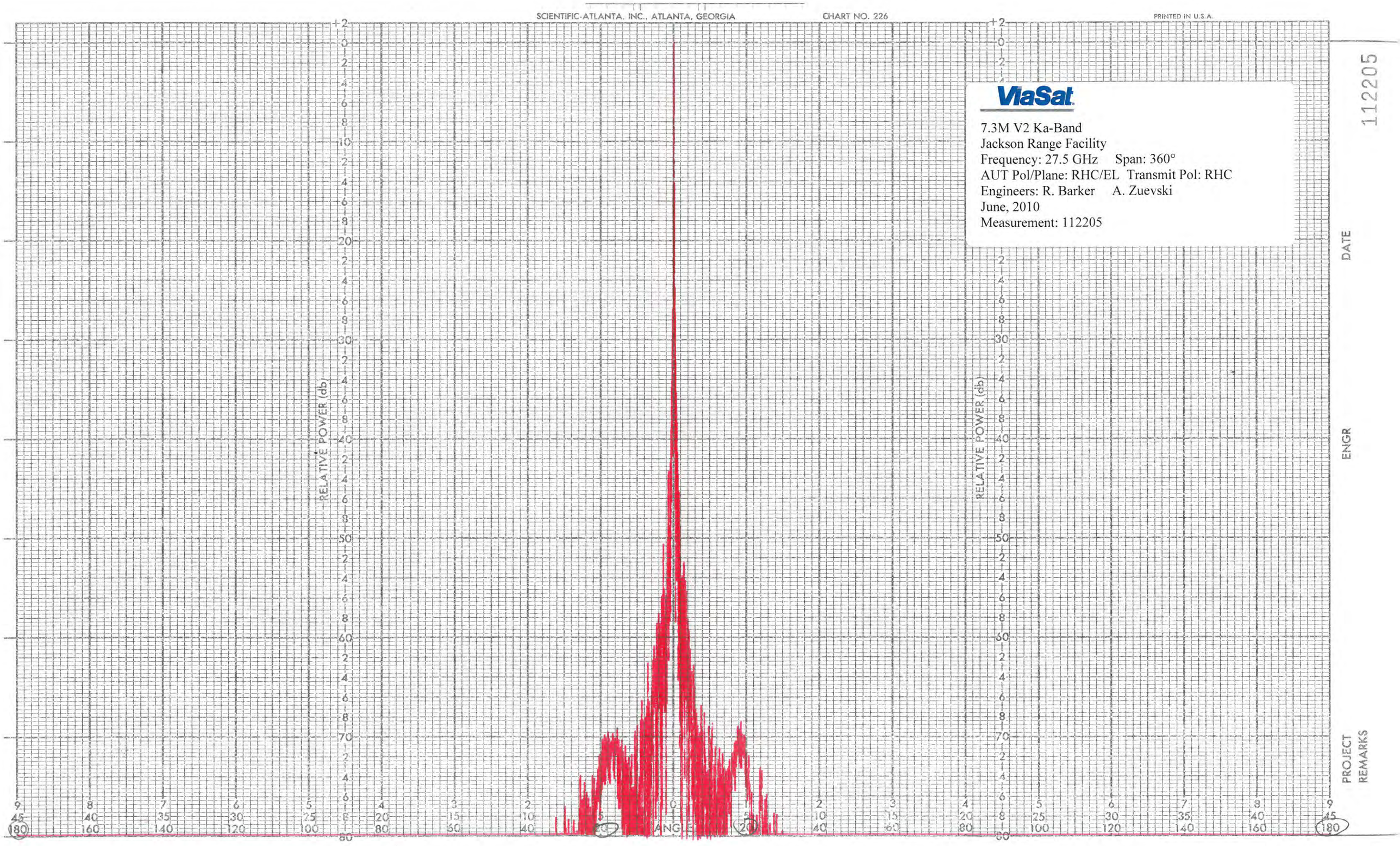
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 9°
AUT Pol/Plane: LHC/EL, Transmit Pol: LHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112626
RELATIVE POWER (db)
ANGLE
112626
DATE
ENGR
PROJECT
REMARKS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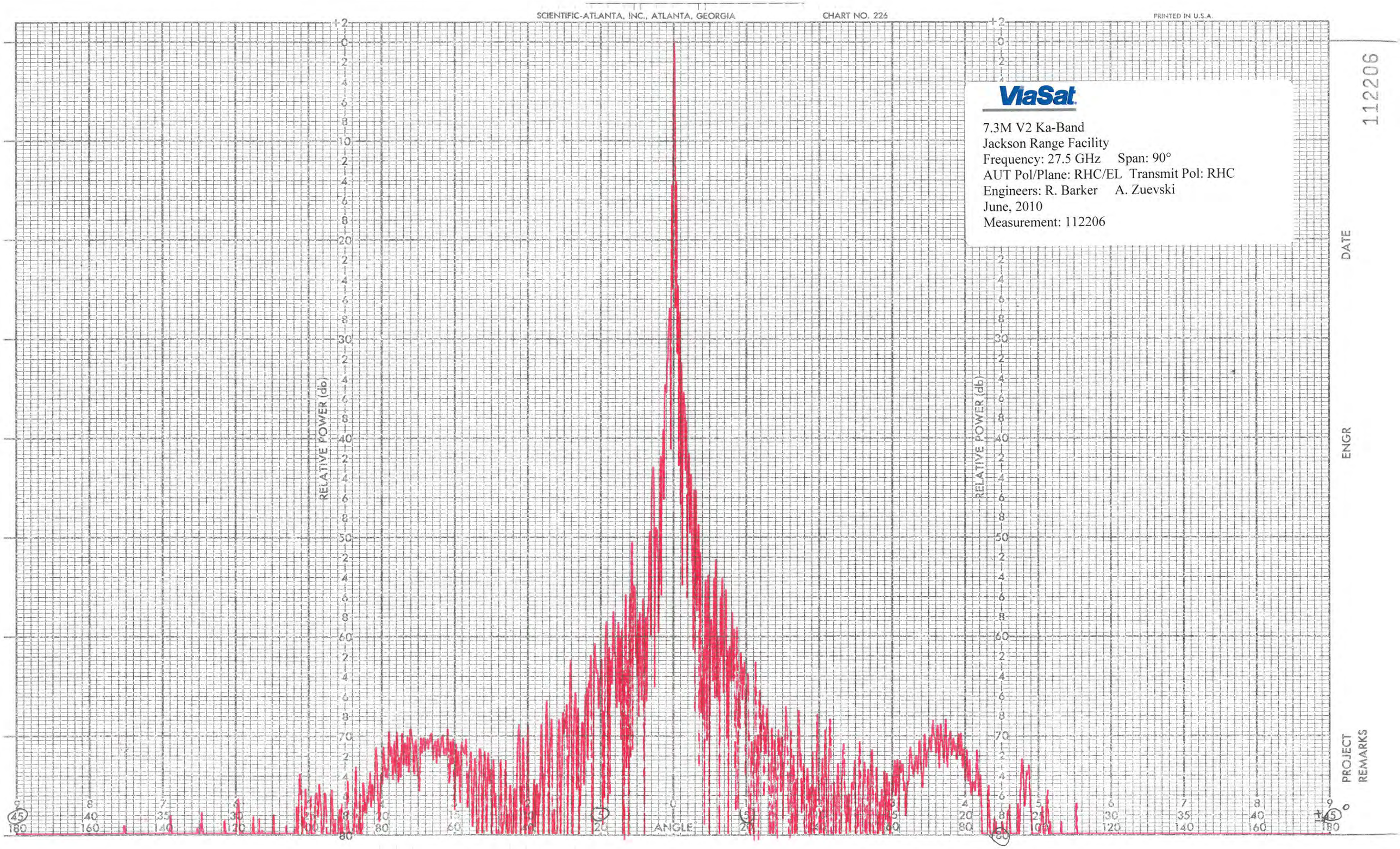
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 27.5 GHz Span: 360°
AUT Pol/Plane: RHC/EL Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112205
RELATIVE POWER (db)
ANGLE
112205
DATE
ENGR
PROJECT
REMARKS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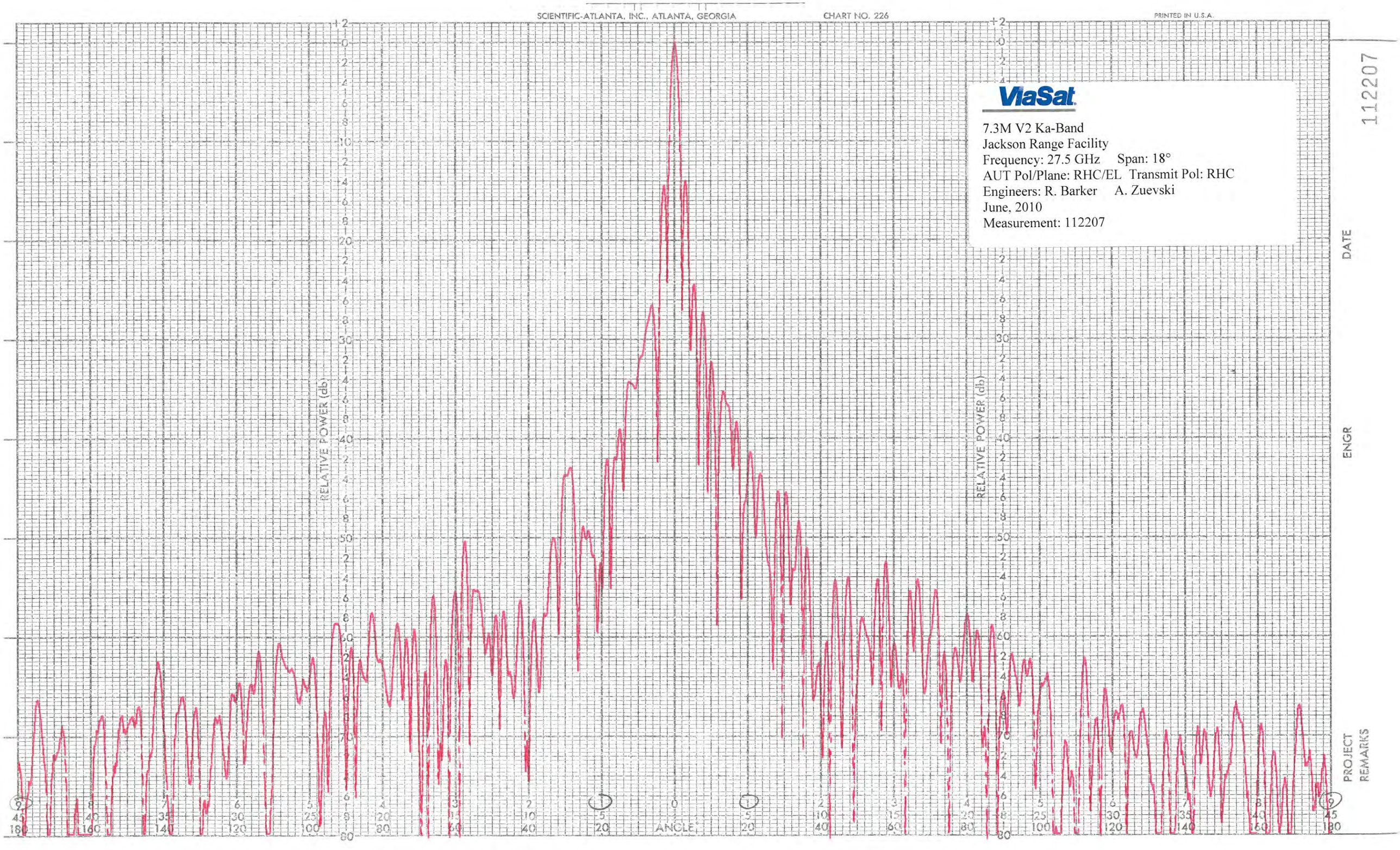
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 27.5 GHz Span: 90°
AUT Pol/Plane: RHC/EL Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112206
RELATIVE POWER (db)
ANGLE
112206
DATE
ENGR
PROJECT
REMARKS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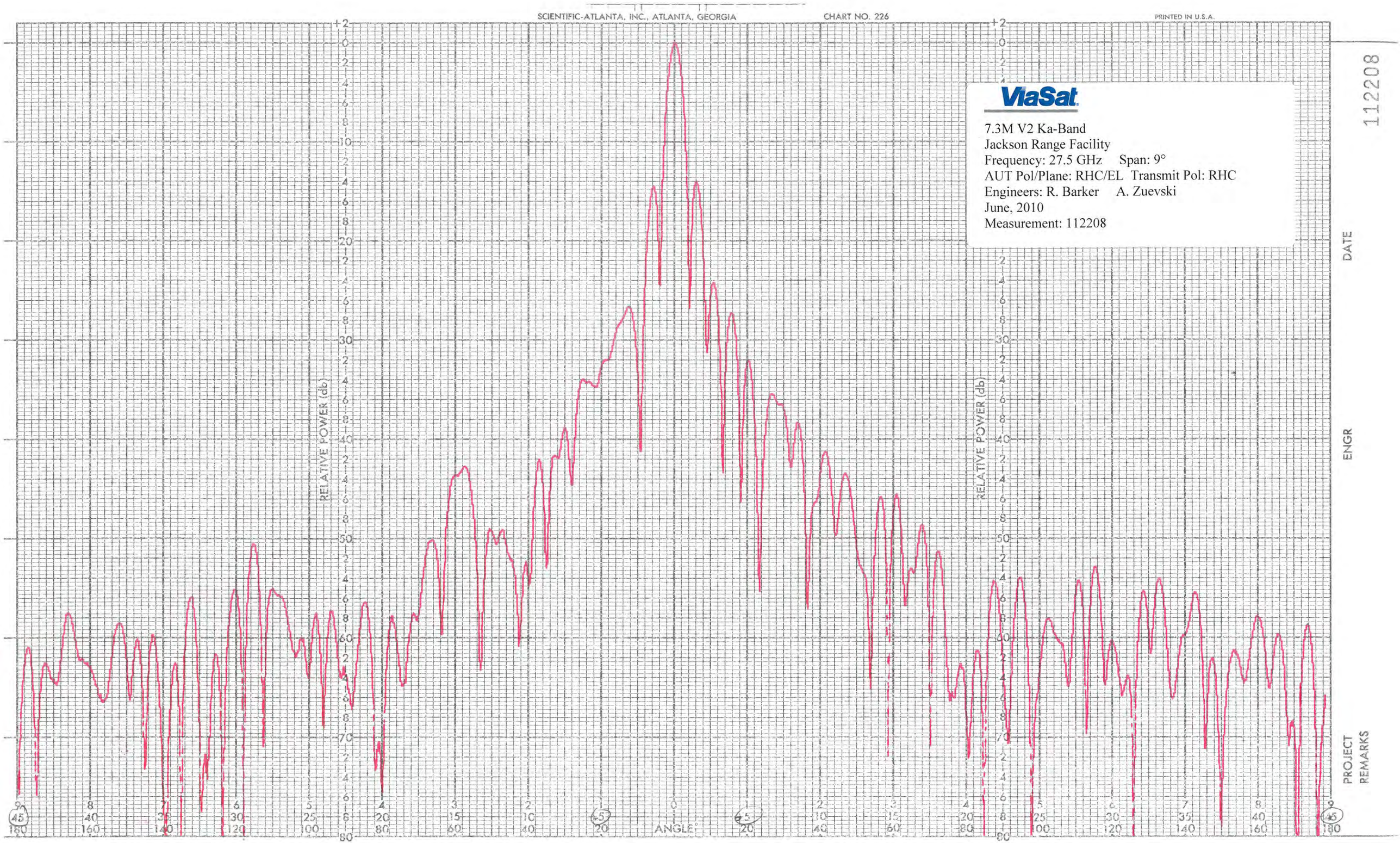
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 27.5 GHz Span: 18°
AUT Pol/Plane: RHC/EL Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112207
RELATIVE POWER (db)
ANGLE°
DATE
ENGR
PROJECT
REMARKS
112207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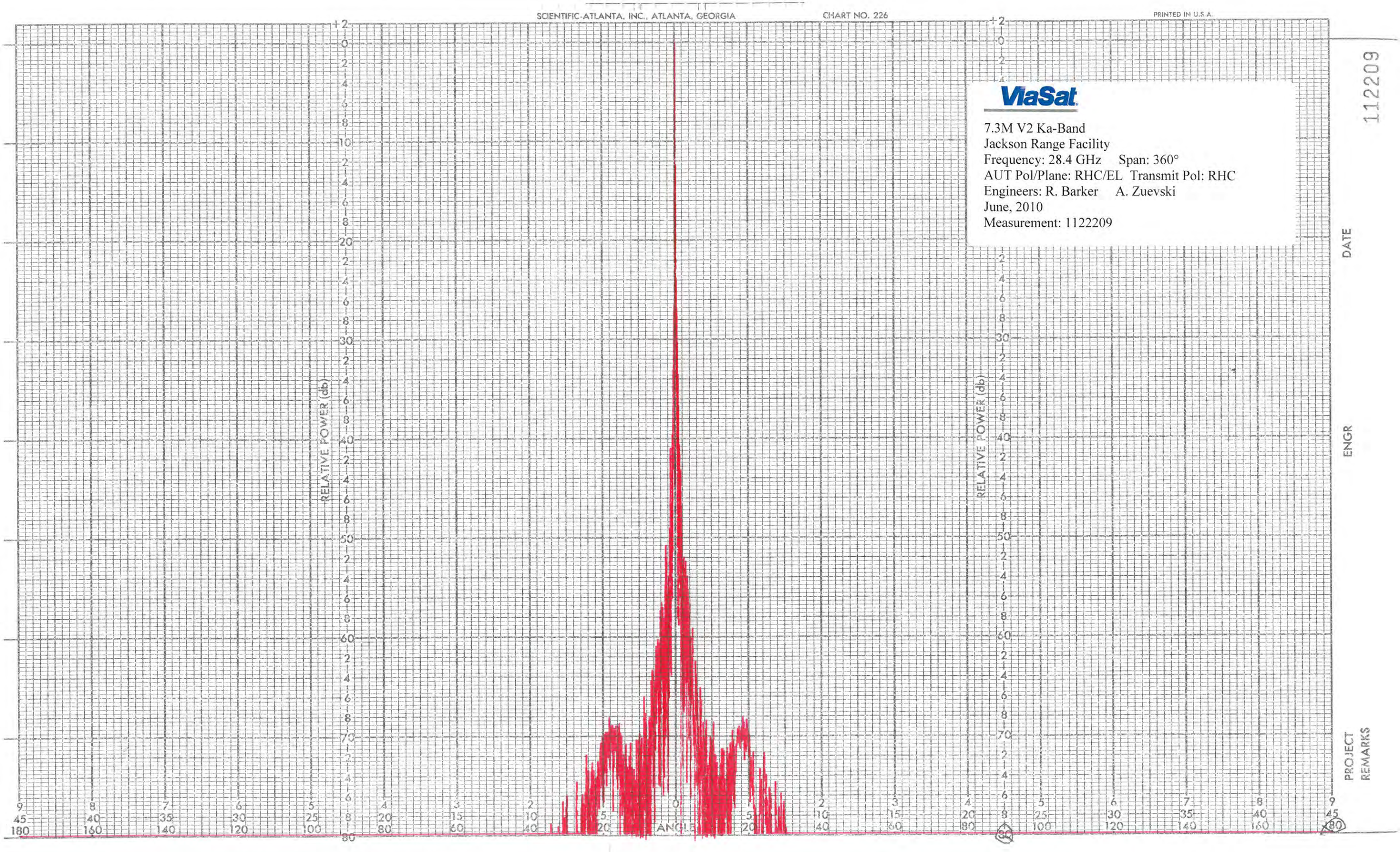
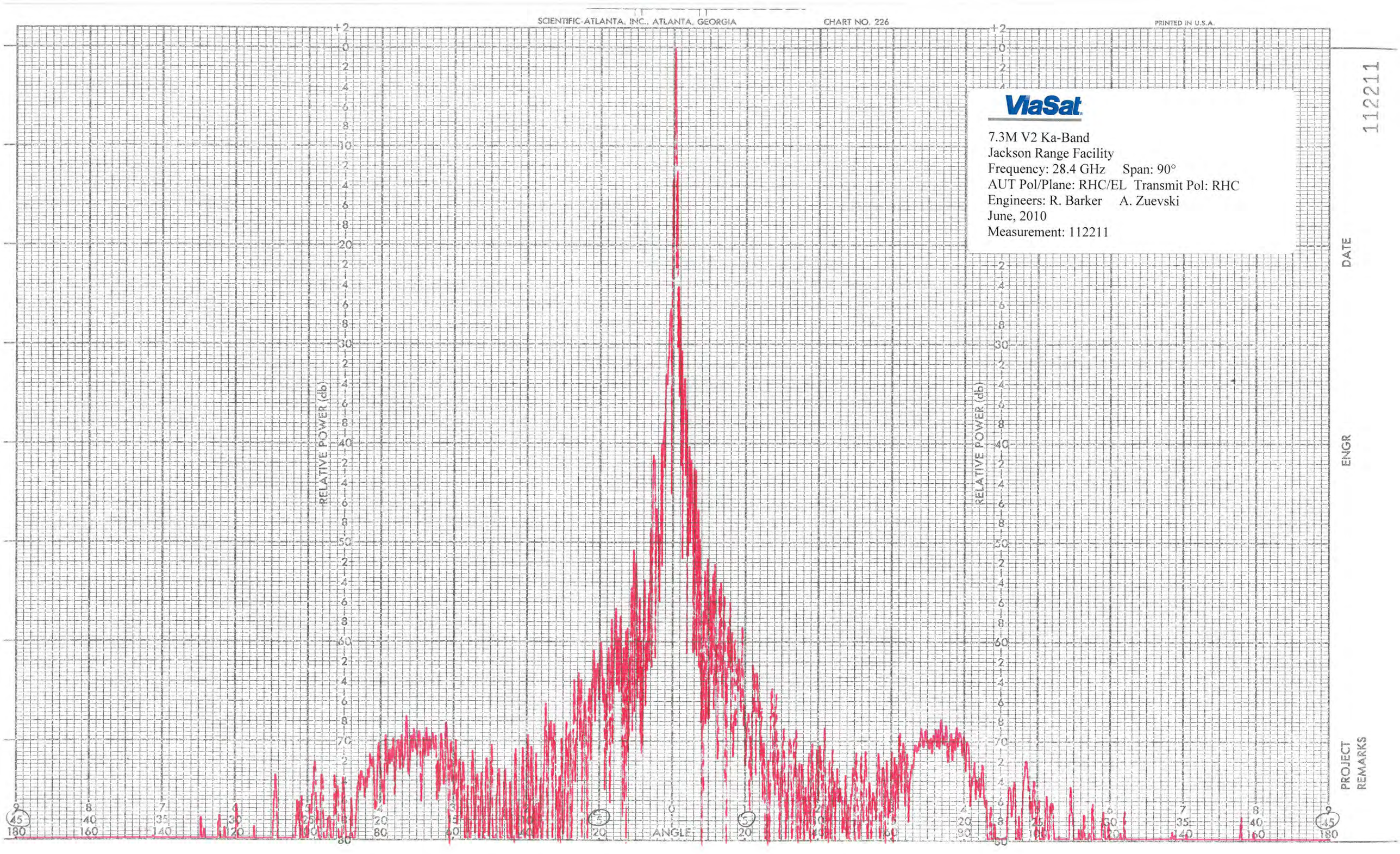
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 27.5 GHz Span: 9°
AUT Pol/Plane: RHC/EL Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112208
RELATIVE POWER (db)
ANGLE°
112208
DATE
ENGR
PROJECT
REMARKS



ViaSat Proprietary Information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ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 90°
AUT Pol/Plane: RHC/EL Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112211
RELATIVE POWER (db)
ANGLE
DATE
ENGR
PROJECT
REMARKS
112211

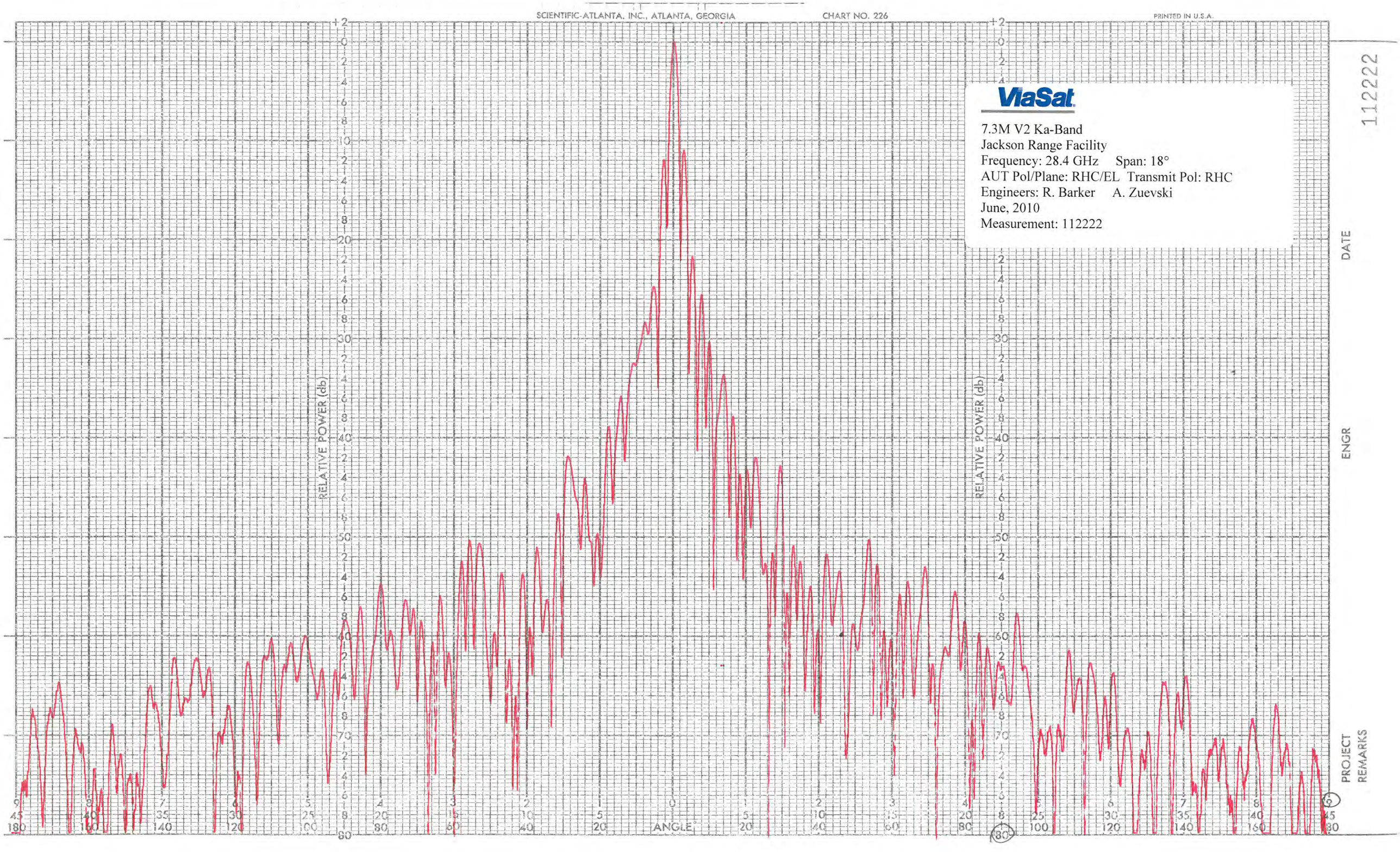
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CHART NO. 226
PRINTED IN U.S.A.
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 18°
AUT Pol/Plane: RHC/EL Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112222
112222
DATE
ENGR
PROJECT
REMARKS
RELATIVE POWER (db)
ANGLE

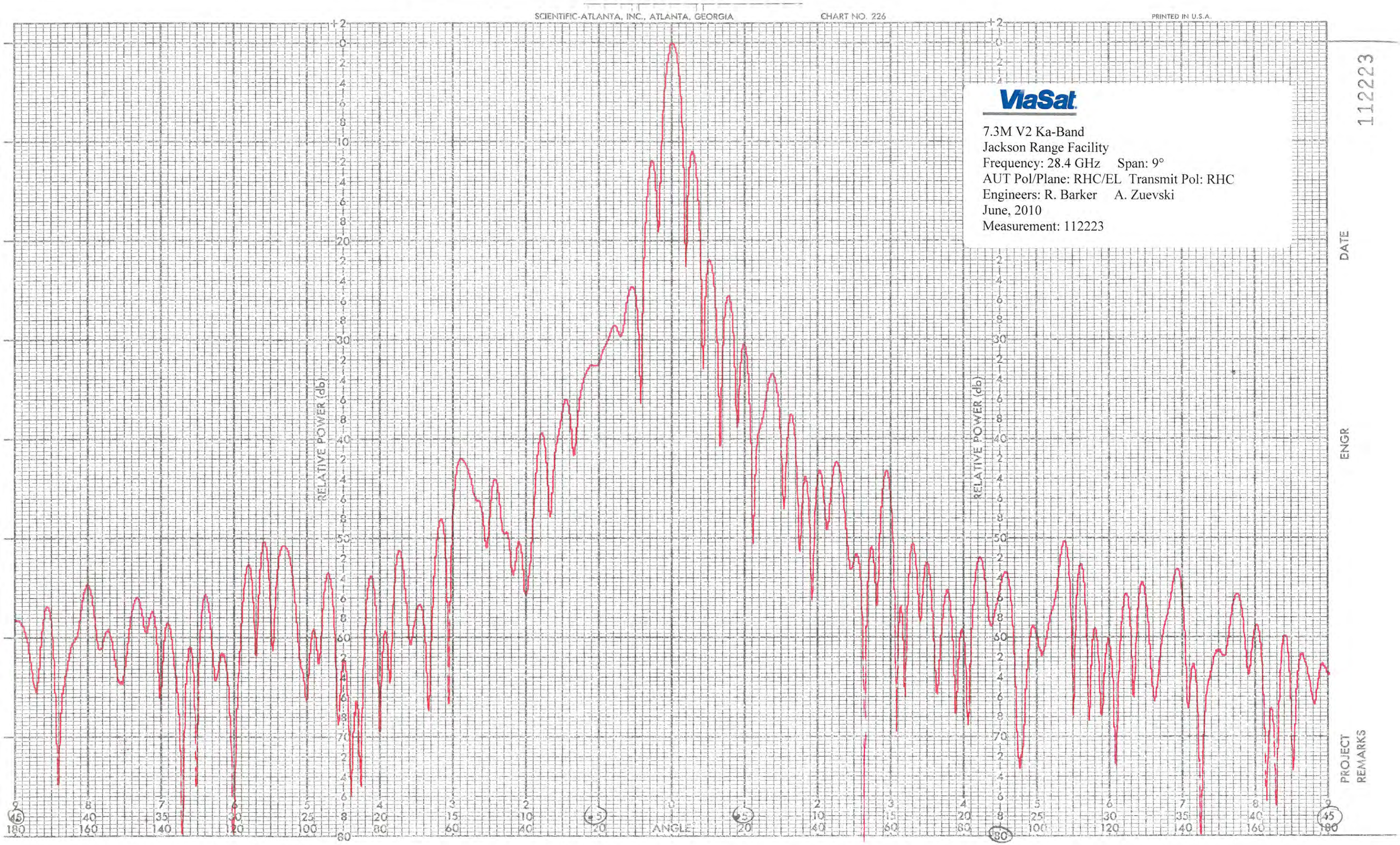
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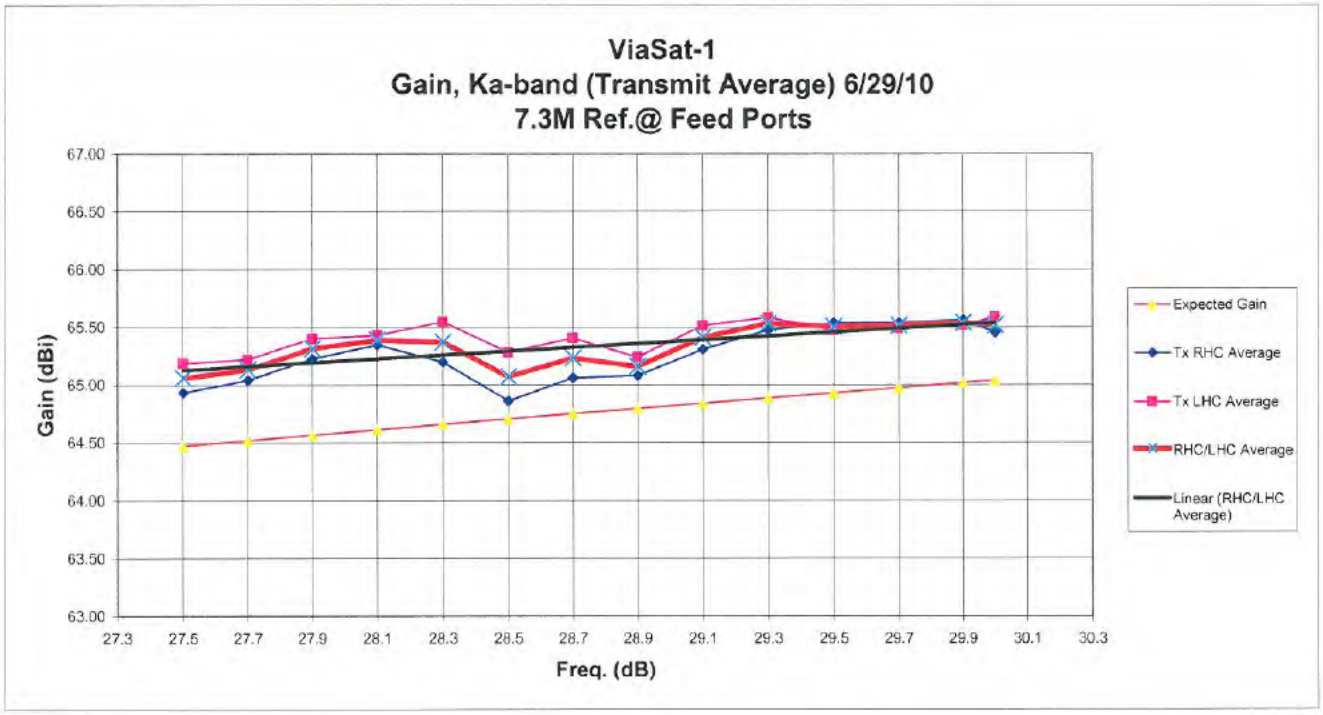
CHART NO. 226
PRINTED IN U.S.A.
ViaSat
7.3M V2 Ka-Band
Jackson Range Facility
Frequency: 28.4 GHz Span: 9°
AUT Pol/Plane: RHC/EL Transmit Pol: RHC
Engineers: R. Barker A. Zuevski
June, 2010
Measurement: 112223
RELATIVE POWER (db)
ANGLE°
112223
DATE
ENGR
PROJECT
REMARKS

	Diameter :	288 in		ViaSat-1 Ka Bands 7.3M			R.Barker A.Zuevski		6/29/2010	
Transmit Gain Summary										
	RHC Average	LHC Average	Average		Spec F(gHz)	29				
Freq.	Meas. #2 and #3	AVG #1 and #2	RHC&LHC		Spec Gain	64.82				
27.50	64.93	65.19	65.06		27.5	64.474				
27.70	65.04	65.22	65.13		27.7	64.521				
27.90	65.23	65.40	65.32		27.9	64.568				
28.10	65.35	65.43	65.39		28.1	64.615				
28.30	65.20	65.55	65.37		28.3	64.661				
28.50	64.86	65.28	65.07		28.5	64.707				
28.70	65.06	65.40	65.23		28.7	64.752				
28.90	65.08	65.24	65.16		28.9	64.797				
29.10	65.31	65.51	65.41		29.1	64.842				
29.30	65.47	65.58	65.53		29.3	64.887				
29.50	65.54	65.47	65.50		29.5	64.931				
29.70	65.54	65.49	65.51		29.7	64.975				
29.90	65.56	65.52	65.54		29.9	65.019				
30.00	65.45	65.59	65.52		30	65.041				



ViaSat Proprietary Information