

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
Comcast Cable Communications, LLC
MERIDIAN, MS
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
July 17, 2018

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

No great circle interference cases were identified during the interference study of the proposed earth station.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 07/17/2018.

Company

Comsearch

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 07/17/2018
Job Number: 180717COMSTW05

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code ZCATEC
Licensee Name Comcast Cable Communications, LLC

Site Information

MERIDIAN, MS
Venue Name
Latitude (NAD 83) 32° 21' 59.4" N
Longitude (NAD 83) 88° 42' 10.3" W
Climate Zone A
Rain Zone 1
Ground Elevation (AMSL) 110.19 m / 361.5 ft

Link Information

Satellite Type Geostationary
Mode RO - Receive-Only
Modulation Digital
Satellite Arc 60° W to 143° West Longitude
Azimuth Range 134.4° to 249.0°
Corresponding Elevation Angles 41.3° / 21.4°
Antenna Centerline (AGL) 0.91 m / 3.0 ft

Antenna Information

Manufacturer PATRIOT
Model 3.8 METER
Gain / Diameter 42.9 dBi / 3.8 m
3-dB / 15-dB Beamwidth 1.40° / 2.80°

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Frequency Information

Receive 4.0 GHz
Emission / Frequency Range (MHz) 36M0G7W / 3700.0 - 4200.0

Max Great Circle Coordination Distance 346.8 km / 215.5 mi
Precipitation Scatter Contour Radius 576.0 km / 357.9 mi

COMSEARCH

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Coordination Values

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Ground Elevation (AMSL) 110.19 m / 361.5 ft
Antenna Centerline (AGL) 0.91 m / 3.0 ft
Antenna Model PATROIT 3.8 METER
Antenna Mode Receive 4.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.62	109.61	-10.00	242.23
5	0.66	114.24	-10.00	239.39
10	0.77	115.41	-10.00	232.80
15	1.00	111.96	-10.00	220.21
20	1.36	108.44	-10.00	209.52
25	1.62	104.78	-10.00	204.83
30	1.99	101.06	-10.00	194.65
35	2.05	97.23	-10.00	193.43
40	2.02	93.37	-10.00	193.99
45	1.56	89.50	-10.00	206.42
50	1.14	85.69	-10.00	216.07
55	0.81	81.92	-10.00	230.62
60	0.53	78.21	-10.00	247.76
65	0.22	74.58	-10.00	282.97
70	0.24	70.95	-10.00	280.74
75	0.24	67.39	-10.00	280.85
80	0.55	63.79	-10.00	246.66
85	0.52	60.44	-10.00	248.18
90	0.49	57.22	-10.00	250.49
95	0.53	54.14	-10.00	247.84
100	0.55	51.27	-10.00	246.23
105	0.51	48.69	-10.00	249.17
110	0.56	46.33	-9.65	247.84
115	0.77	44.16	-9.13	237.74
120	0.62	42.70	-8.76	249.43
125	0.51	41.65	-8.49	258.15
130	0.41	41.06	-8.34	270.56
135	0.62	40.66	-8.23	252.29
140	0.48	41.12	-8.35	262.07
145	0.62	41.80	-8.53	250.94
150	0.84	42.87	-8.80	235.44
155	1.17	44.30	-9.16	219.32
160	1.08	46.48	-9.68	219.27
165	1.15	48.45	-10.00	215.72
170	1.09	50.01	-10.00	217.50
175	0.74	51.27	-10.00	234.79
180	0.56	51.78	-10.00	246.05
185	1.12	50.90	-10.00	216.53

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Coordination Values

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Ground Elevation (AMSL) 110.19 m / 361.5 ft
Antenna Centerline (AGL) 0.91 m / 3.0 ft
Antenna Model PATROIT 3.8 METER
Antenna Mode Receive 4.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

MERIDIAN, MS

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.61	50.45	-10.00	242.45
195	0.64	48.89	-10.00	240.78
200	0.74	46.76	-9.75	236.26
205	0.47	44.46	-9.20	257.72
210	0.34	41.68	-8.50	277.86
215	0.00	38.73	-7.70	300.32
220	0.00	35.32	-6.70	307.14
225	0.00	31.72	-5.53	315.90
230	0.00	28.32	-4.30	324.67
235	0.00	25.40	-3.12	333.23
240	0.00	23.15	-2.12	340.65
245	0.00	21.79	-1.45	345.58
250	0.00	21.46	-1.29	346.79
255	0.00	22.24	-1.68	343.91
260	0.00	24.00	-2.50	337.77
265	0.00	26.55	-3.60	329.73
270	0.00	29.69	-4.82	320.99
275	0.23	33.11	-6.00	308.11
280	0.24	36.99	-7.20	298.88
285	0.24	41.07	-8.34	290.49
290	0.00	45.41	-9.43	288.94
295	0.40	49.62	-10.00	261.31
300	0.61	54.01	-10.00	242.83
305	0.73	58.50	-10.00	235.18
310	0.86	63.05	-10.00	228.01
315	0.92	67.65	-10.00	224.49
320	0.84	72.30	-10.00	229.00
325	0.81	76.96	-10.00	230.99
330	0.69	81.63	-10.00	237.93
335	0.60	86.30	-10.00	243.58
340	0.65	90.98	-10.00	240.49
345	0.67	95.65	-10.00	239.24
350	0.62	100.32	-10.00	241.95
355	0.72	104.98	-10.00	236.17

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: _____

Twila Meyer
DB Technician IV
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: July 17, 2018

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MERIDIAN, MS
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Prepared By:
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Ashburn, VA 20147
July 18, 2018

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

No great circle interference cases were identified during the interference study of the proposed earth station.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 07/18/2018.

Company

Comsearch

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 07/18/2018
Job Number: 180718COMSTW14

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code ZCATEC
Licensee Name Comcast Cable Communications, LLC

Site Information

MERIDIAN, MS
Venue Name
Latitude (NAD 83) 32° 21' 59.4" N
Longitude (NAD 83) 88° 42' 10.3" W
Climate Zone A
Rain Zone 1
Ground Elevation (AMSL) 110.19 m / 361.5 ft

Link Information

Satellite Type Geostationary
Mode RO - Receive-Only
Modulation Digital
Satellite Arc 60° W to 143° West Longitude
Azimuth Range 134.4° to 249.0°
Corresponding Elevation Angles 41.3° / 21.4°
Antenna Centerline (AGL) 0.91 m / 3.0 ft

Antenna Information

Manufacturer SCIENTIFIC-ATLANTA, INC
Model 8018 (5 METER)
Gain / Diameter 44.5 dBi / 5.0 m
3-dB / 15-dB Beamwidth 0.86° / 2.00°

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Frequency Information

Receive 4.0 GHz
Emission / Frequency Range (MHz) 36M0G7W / 3700.0 - 4200.0

Max Great Circle Coordination Distance 348.4 km / 216.4 mi
Precipitation Scatter Contour Radius 576.0 km / 357.9 mi

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Antenna Mode Receive 4.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.62	109.61	-9.50	245.07
5	0.66	114.24	-9.50	242.20
10	0.77	115.41	-9.75	234.17
15	1.00	111.96	-9.50	222.75
20	1.36	108.44	-9.50	211.87
25	1.62	104.78	-9.50	204.69
30	1.99	101.06	-9.50	196.98
35	2.05	97.23	-9.50	195.77
40	2.02	93.37	-9.50	196.33
45	1.56	89.50	-9.50	206.29
50	1.14	85.69	-9.50	218.54
55	0.81	81.92	-9.50	233.31
60	0.53	78.21	-9.50	250.79
65	0.22	74.58	-9.50	286.16
70	0.24	70.95	-9.50	283.91
75	0.24	67.39	-9.50	284.02
80	0.55	63.79	-9.50	249.55
85	0.52	60.44	-9.50	251.21
90	0.49	57.22	-9.50	253.42
95	0.53	54.14	-9.50	250.87
100	0.55	51.27	-9.50	249.12
105	0.51	48.69	-9.50	252.22
110	0.56	46.33	-9.50	248.69
115	0.77	44.16	-9.33	236.60
120	0.62	42.70	-9.04	247.79
125	0.51	41.65	-8.83	256.10
130	0.41	41.06	-8.71	268.20
135	0.62	40.66	-8.63	249.77
140	0.48	41.12	-8.72	259.79
145	0.62	41.80	-8.86	248.86
150	0.84	42.87	-9.07	233.94
155	1.17	44.30	-9.36	218.31
160	1.08	46.48	-9.50	220.18
165	1.15	48.45	-9.50	218.18
170	1.09	50.01	-9.50	220.00
175	0.74	51.27	-9.50	237.54
180	0.56	51.78	-9.50	248.93
185	1.12	50.90	-9.50	219.01

COMSEARCH

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Antenna Mode Receive 4.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

MERIDIAN, MS

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.61	50.45	-9.50	245.30
195	0.64	48.89	-9.50	243.60
200	0.74	46.76	-9.50	237.62
205	0.47	44.46	-9.39	256.56
210	0.34	41.68	-8.84	275.72
215	0.00	38.73	-7.99	298.37
220	0.00	35.32	-6.63	307.64
225	0.00	31.72	-5.19	318.34
230	0.00	28.32	-3.83	328.09
235	0.00	25.40	-2.66	336.61
240	0.00	23.15	-1.76	343.28
245	0.00	21.79	-1.21	347.39
250	0.00	21.46	-1.09	348.35
255	0.00	22.24	-1.40	346.03
260	0.00	24.00	-2.10	340.77
265	0.00	26.55	-3.12	333.24
270	0.00	29.69	-4.38	324.14
275	0.23	33.11	-5.75	309.88
280	0.24	36.99	-7.30	298.25
285	0.24	41.07	-8.71	288.04
290	0.00	45.41	-9.50	288.48
295	0.40	49.62	-9.50	264.33
300	0.61	54.01	-9.50	245.67
305	0.73	58.50	-9.50	237.93
310	0.86	63.05	-9.50	230.66
315	0.92	67.65	-9.50	227.10
320	0.84	72.30	-9.50	231.67
325	0.81	76.96	-9.50	233.69
330	0.69	81.63	-9.50	240.72
335	0.60	86.30	-9.50	246.44
340	0.65	90.98	-9.50	243.31
345	0.67	95.65	-9.50	242.04
350	0.62	100.32	-9.50	244.79
355	0.72	104.98	-9.50	238.94

5. CERTIFICATION

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Licensee Code ZCATEC
Licensee Name Comcast Cable Communications, LLC

Site Information

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Link Information

Satellite Type Geostationary
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Modulation Digital
Satellite Arc 60° W to 143° West Longitude
Azimuth Range 134.4° to 249.0°
Corresponding Elevation Angles 41.3° / 21.4°
Antenna Centerline (AGL) 0.91 m / 3.0 ft

Antenna Information

Receive - S40281
Manufacturer SCIENTIFIC-ATLANTA, INC
Model 9000
Gain / Diameter 39.0 dBi / 2.8 m
3-dB / 15-dB Beamwidth 1.90° / 3.80°

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Frequency Information

Receive 4.0 GHz
Emission / Frequency Range (MHz) 36M0G7W / 3700.0 - 4200.0

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Short Term -146.0 dBW/MHz 0.01%

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			Horizon Gain (dBi)	Coordination Distance (km)
0	0.62	109.61	-11.00	236.70
5	0.66	114.24	-11.00	233.93
10	0.77	115.41	-11.00	227.51
15	1.00	111.96	-11.00	215.30
20	1.36	108.44	-11.00	204.99
25	1.62	104.78	-11.00	200.35
30	1.99	101.06	-11.00	189.97
35	2.05	97.23	-11.00	188.72
40	2.02	93.37	-11.00	189.29
45	1.56	89.50	-11.00	201.96
50	1.14	85.69	-11.00	211.30
55	0.81	81.92	-11.00	225.39
60	0.53	78.21	-11.00	242.10
65	0.22	74.58	-11.00	276.72
70	0.24	70.95	-11.00	274.52
75	0.24	67.39	-11.00	274.63
80	0.55	63.79	-11.00	241.02
85	0.52	60.44	-11.00	242.51
90	0.49	57.22	-11.00	244.65
95	0.53	54.14	-11.00	242.18
100	0.55	51.27	-11.00	240.61
105	0.51	48.69	-10.74	244.95
110	0.56	46.33	-10.27	244.30
115	0.77	44.16	-9.67	234.77
120	0.62	42.70	-9.08	247.56
125	0.51	41.65	-8.66	257.13
130	0.41	41.06	-8.43	270.00
135	0.62	40.66	-8.26	252.08
140	0.48	41.12	-8.45	261.47
145	0.62	41.80	-8.72	249.69
150	0.84	42.87	-9.15	233.54
155	1.17	44.30	-9.72	216.53
160	1.08	46.48	-10.30	216.23
165	1.15	48.45	-10.69	212.41
170	1.09	50.01	-11.00	212.68
175	0.74	51.27	-11.00	229.45
180	0.56	51.78	-11.00	240.43
185	1.12	50.90	-11.00	211.75

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195	0.64	48.89	-10.78	236.49
200	0.74	46.76	-10.35	232.97
205	0.47	44.46	-9.78	254.23
210	0.34	41.68	-8.67	276.75
215	0.00	38.73	-7.75	300.02
220	0.00	35.32	-7.06	304.65
225	0.00	31.72	-5.69	314.81
230	0.00	28.32	-4.33	324.49
235	0.00	25.40	-3.16	332.94
240	0.00	23.15	-2.26	339.56
245	0.00	21.79	-1.71	343.64
250	0.00	21.46	-1.59	344.60
255	0.00	22.24	-1.90	342.29
260	0.00	24.00	-2.60	337.07
265	0.00	26.55	-3.62	329.59
270	0.00	29.69	-4.88	320.56
275	0.23	33.11	-6.25	306.40
280	0.24	36.99	-7.40	297.56
285	0.24	41.07	-8.43	289.90
290	0.00	45.41	-10.08	284.76
295	0.40	49.62	-10.92	255.83
300	0.61	54.01	-11.00	237.28
305	0.73	58.50	-11.00	229.83
310	0.86	63.05	-11.00	222.85
315	0.92	67.65	-11.00	219.44
320	0.84	72.30	-11.00	223.82
325	0.81	76.96	-11.00	225.76
330	0.69	81.63	-11.00	232.51
335	0.60	86.30	-11.00	238.02
340	0.65	90.98	-11.00	235.00
345	0.67	95.65	-11.00	233.78
350	0.62	100.32	-11.00	236.43
355	0.72	104.98	-11.00	230.79

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: _____

Twila Meyer
DB Technician IV
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: July 17, 2018

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
Comcast Cable Communications, LLC
MERIDIAN, MS
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
July 17, 2018

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4. EARTH STATION COORDINATION DATA.....	6
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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

No great circle interference cases were identified during the interference study of the proposed earth station.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 07/17/2018.

Company

Comsearch

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 07/17/2018
Job Number: 180717COMSTW06

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code ZCATEC
Licensee Name Comcast Cable Communications, LLC

Site Information

MERIDIAN, MS
Venue Name
Latitude (NAD 83) 32° 21' 59.4" N
Longitude (NAD 83) 88° 42' 10.3" W
Climate Zone A
Rain Zone 1
Ground Elevation (AMSL) 110.19 m / 361.5 ft

Link Information

Satellite Type Geostationary
Mode RO - Receive-Only
Modulation Digital
Satellite Arc 60° W to 143° West Longitude
Azimuth Range 134.4° to 249.0°
Corresponding Elevation Angles 41.3° / 21.4°
Antenna Centerline (AGL) 0.91 m / 3.0 ft

Antenna Information

Manufacturer PATRIOT
Model PRT-380
Gain / Diameter 42.9 dBi / 3.8 m
3-dB / 15-dB Beamwidth 1.40° / 2.80°

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Frequency Information

Receive 4.0 GHz
Emission / Frequency Range (MHz) 36M0G7W / 3700.0 - 4200.0

Max Great Circle Coordination Distance 346.8 km / 215.5 mi
Precipitation Scatter Contour Radius 576.0 km / 357.9 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

MERIDIAN, MS
Licensee Name Comcast Cable Communications, LLC
Latitude (NAD 83) 32° 21' 59.4" N
Longitude (NAD 83) 88° 42' 10.3" W
Ground Elevation (AMSL) 110.19 m / 361.5 ft
Antenna Centerline (AGL) 0.91 m / 3.0 ft
Antenna Model PATRIOT PRT-380
Antenna Mode Receive 4.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.62	109.61	-10.00	242.23
5	0.66	114.24	-10.00	239.39
10	0.77	115.41	-10.00	232.80
15	1.00	111.96	-10.00	220.21
20	1.36	108.44	-10.00	209.52
25	1.62	104.78	-10.00	204.83
30	1.99	101.06	-10.00	194.65
35	2.05	97.23	-10.00	193.43
40	2.02	93.37	-10.00	193.99
45	1.56	89.50	-10.00	206.42
50	1.14	85.69	-10.00	216.07
55	0.81	81.92	-10.00	230.62
60	0.53	78.21	-10.00	247.76
65	0.22	74.58	-10.00	282.97
70	0.24	70.95	-10.00	280.74
75	0.24	67.39	-10.00	280.85
80	0.55	63.79	-10.00	246.66
85	0.52	60.44	-10.00	248.18
90	0.49	57.22	-10.00	250.49
95	0.53	54.14	-10.00	247.84
100	0.55	51.27	-10.00	246.23
105	0.51	48.69	-10.00	249.17
110	0.56	46.33	-9.65	247.84
115	0.77	44.16	-9.13	237.74
120	0.62	42.70	-8.76	249.43
125	0.51	41.65	-8.49	258.15
130	0.41	41.06	-8.34	270.56
135	0.62	40.66	-8.23	252.29
140	0.48	41.12	-8.35	262.07
145	0.62	41.80	-8.53	250.94
150	0.84	42.87	-8.80	235.44
155	1.17	44.30	-9.16	219.32
160	1.08	46.48	-9.68	219.27
165	1.15	48.45	-10.00	215.72
170	1.09	50.01	-10.00	217.50
175	0.74	51.27	-10.00	234.79
180	0.56	51.78	-10.00	246.05
185	1.12	50.90	-10.00	216.53

COMSEARCH

Earth Station Data Sheet

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Antenna Centerline (AGL) 0.91 m / 3.0 ft
Antenna Model PATRIOT PRT-380
Antenna Mode Receive 4.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.61	50.45	-10.00	242.45
195	0.64	48.89	-10.00	240.78
200	0.74	46.76	-9.75	236.26
205	0.47	44.46	-9.20	257.72
210	0.34	41.68	-8.50	277.86
215	0.00	38.73	-7.70	300.32
220	0.00	35.32	-6.70	307.14
225	0.00	31.72	-5.53	315.90
230	0.00	28.32	-4.30	324.67
235	0.00	25.40	-3.12	333.23
240	0.00	23.15	-2.12	340.65
245	0.00	21.79	-1.45	345.58
250	0.00	21.46	-1.29	346.79
255	0.00	22.24	-1.68	343.91
260	0.00	24.00	-2.50	337.77
265	0.00	26.55	-3.60	329.73
270	0.00	29.69	-4.82	320.99
275	0.23	33.11	-6.00	308.11
280	0.24	36.99	-7.20	298.88
285	0.24	41.07	-8.34	290.49
290	0.00	45.41	-9.43	288.94
295	0.40	49.62	-10.00	261.31
300	0.61	54.01	-10.00	242.83
305	0.73	58.50	-10.00	235.18
310	0.86	63.05	-10.00	228.01
315	0.92	67.65	-10.00	224.49
320	0.84	72.30	-10.00	229.00
325	0.81	76.96	-10.00	230.99
330	0.69	81.63	-10.00	237.93
335	0.60	86.30	-10.00	243.58
340	0.65	90.98	-10.00	240.49
345	0.67	95.65	-10.00	239.24
350	0.62	100.32	-10.00	241.95
355	0.72	104.98	-10.00	236.17

5. CERTIFICATION

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