Ka-Band Earth Station – Forest, OH Frequency Coordination Report 28 GHz



Prepared on Behalf of ViaSat, Inc.

July 31, 2021





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1. Summary of Results

On behalf of ViaSat. Inc., Comsearch issued coordination notice under Section 25.203(c) and Section 25.136(a)(4) of the FCC's rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed Ka-Band earth station in Forest-OH, which will transmit at 28 GHz¹. Prior-notification emails were sent to the licensees and a copy of the notification data is provided in section four of this report. The earth station coordination was finalized on July 30, 2021.

No objections were received from any of the incumbent 28 GHz licensees.

2. 28 GHz Common Carrier Coordination

In accordance with FCC Rules and Regulations, the Ka-Band earth station in Forest, OH was prior-coordinated by Comsearch. A notification email, datasheet and Google Earth file showing the area around the site outside which the -77.6 dBm/m2 per MHz threshold value is not exceeded for this earth station were sent to the following 28 GHz common carrier fixed microwave licensees. These licensees are authorized to operate temporary fixed operations from 27.5 – 29.5 GHz on a nationwide basis or local basis.

Licensee	Authorized Geographic Area
AT&T	Statewide

No objections were received from the common carrier incumbent.

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 $^{^{1}}$ The proposed earth station will operate in the 27.5 – 29.1 GHz & 29.5 – 30.0 GHz portion of the KaBand.



3. 28 GHz UMFUS Coordination

All 28 GHz UMFUS licensees within the coordination distance of the proposed earth station were identified. The proposed earth station will operate on frequencies that overlap Channel L1 & L2 of the UMFUS service. The total frequency allocation for Channels L1 & L2 of the UMFUS spectrum appears below.

Channel: L1 27.500 - 27.925 GHz

L2 27.925 - 28.350 GHz

Licensee	Authorized Geographic Area
T-Mobile	Market Based

No objections were received from the UMFUS incumbents within coordination distance.



4. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka-Band earth station in Forest, OH. This data was circulated to all incumbent licensees in the shared 28 GHz frequency ranges.

Date:	06/3	0/2021		
Job Number: 210		630COMSNR06		
Administrative Information				
		IGINEER PROPOSAL		
Call Sign		INCERT NOT OURE		
_		VIASAT		
		Sat, Inc		
Site Information FOR		REST, OH		
Venue Name		231, 011		
Latitude (NAD 83)		40° 42' 58.78" N		
Longitude (NAD 83)	83° 3	83° 33' 18.98" W		
Climate Zone	Α			
Rain Zone	2			
Ground Elevation (AM	SL) 284.1	79 m / 934.4 ft		
Link Information				
Satellite Type	Geos	stationary		
		TO - Transmit-Only		
Modulation	Digit	igital		
Satellite Arc		3° W to 91° West Longitude		
Azimuth Range		1.5° to 191.3°		
Corresponding Elevation	on Angles 42.6	" / 42.3" m / 3.9 ft		
Antenna Centerline (A	GL) 1.2 ft	n / 3.9 π		
Antenna Informatio	n	Transmit - VES000		
Manufacturer		VIASAT INC.		
Model		13138XX		
Gain / Diameter		52.0 dBi / 1.8 m		
3-dB / 15-dB Beamwid	th	0.40° / 0.80°		
Max Available RF Power	(dBW/4 kHz)	42.5		
	(dBW/MHz)	-18.5		
	. ,			
Maximum EIRP	(dBW/4 kHz)	9.5		
	(dBW/MHz)	33.5		
Interference Objectives:	Long Term	-141.0 dBW/4 kHz 20%		
	Short Term	-118.0 dBW/4 kHz 0.0025%		
Frequency Information		Transmit 28.0 GHz		
Emission / Frequency Range (MHz)		464MG7D / 27500.0 - 29500.0		
Coordination Distance		3.5 km / 2.18 mi		



5. Contact Information

For questions or information regarding the 28 GHz Frequency Coordination Report, please contact:

Contact person: Naveen Raghavan
Title: Engineering Manager

Company: Comsearch

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