

VECTOR

FCC File Number 0945-EX-ST-2018

FCC Point of Contact Leann Nguyen

FCC Date Received

FCC Date Approved

Applicant FRN 26456863

Applicant Name Vector Launch Inc.

Applicant Date Submitted 29-May-18

Approved Callsign

Applicant Date Required 25-Jun-18

Applicant File Number

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License Type Experimental (STA)

For Launch Vehicle

Series Vector-R

Category Block-1

Number of Links 1

Link 1

Telemetry Downlink
Space Telemetry Space Station ER
S-Band
Band Edge (Lower) 2360 MHz
Band Edge (Upper) 2390 MHz
Band 30 MHz
Center Frequency 2370.5 MHz
Polarization RHCP
Transmit Power 10 W
Transmit Power 10 dBW
Antenna Gain 0 dBi
EIRP 10 dBW

Data Type Digital
Modulation SQPSK

Data Rate 256 kbps
FEC Type LDPC
Bandwidth Multiplier 0.90

PSD Bandwidth 229.632
Power Spectral Density per 4 kHz -7.6 dBW/4 kHz

Maximum Approach Velocity 0 m/s
Maximum Doppler (x 2) 0.000 kHz

Necessary BW (including Doppler) 229.632 kHz

BW (incl margin) 250.000 kHz
Necessary Bandwidth (Lower) 2370.375 MHz
Necessary Bandwidth (Upper) 2370.625 MHz

Transmitter Manufacturer Quasonix
Transmitter Model Number QSX-VSH2-1100

Emission Designator 240KG1D

Launch Site Name Kodiak, AK (PSCA)
Inclination (Min) 60°

Latitude 57.435209 N
Inclination (Max) 110°

Longitude 152.33948 E
Altitude (Min) 10 m

Elevation 0.05 km
Altitude (Max) 10 m