VECTOR

FCC File Number			
FCC Point of Contact	Leann Nguyen		
FCC Date Received		FCC Date Approved	
Approved Callsign			

Applicant FRN	0026456863	
Applicant Name	Vector Launch Inc.	
Applicant Date Submitted	5-Dec-18	
Applicant Date Required	17-Dec-18	
Applicant File Number		

FCC POC	Name	Leann Nguyen	Title	Engineer	Phone	(202) 418-2482	Email leann.nguyen@fcc.gov
FCC POC Agency	Name	Federal Communications Commission Attn: OET - Leann Nguyen and Anthony Serafini			Direct Phone	(888) 225-5322	Fax (888) 418-0232
FCC POC Agency	Street	445 12th Street SW	City	Washington	State	DC	Zip Code 20554
Applicant POC1	Name	Christopher Timperio	Title	RF Engineer	Phone	(888) 691-9778 EXT 329	Email christopher.timperio@vector-launch.com
Applicant POC2	Name	Matt Baker	Title	Director - Avionics	Phone	(888) 691-9778	Email matt.baker@vector-launch.com
Applicant Company	Name	Vector Launch Inc.	Attn: Radio Licensing		Fax	N/A	
Applicant Address	Street	15261 Connector Lane	City	Huntington Beach	State	CA	Zip Code 92649
Applicant Info	FRN	0026456863	CAGEC	7MLT0	EIN	811784147	DUNS 080264639
Stopbuzzer	Number	+1 (888) 691 9778 EXT 330					

License Type	Experimental (STA)	For	Launch Vehicle	Series	Vector-R	Category	Block-1

Number of Links 1

Link 1

Telemetry Downlink	
Space Telemetering Space Station	ER
S-Band	2360-2390
Band Edge (Lower)	2360 MHz
Band Edge (Upper)	2390 MHz
Band	30 MHz
Center Frequency	2370.5 MHz
Polarization	Linear
Transmit Power	10 W
Transmit Power	10 dBW
Antenna Gain	0 dBi
EIRP	10 dBW
Data Type	Digital
Modulation	SOQPSK
Data Rate	2000 kbps
FEC Type	LDPC
Bandwidth Multiplier	0.90
PSD Bandwidth	1794.000
Power Spectral Density per 4 kHz	-16.5 dBW/4 kHz
Maximum Approach Velocity	7500 m/s
Maximum Doppler (x 2)	118.606 kHz
Necessary BW (including Doppler)	1912.606 kHz
BW (incl margin)	1920.000 kHz
Necessary Bandwidth (Lower)	2369.540 MHz
Necessary Bandwidth (Upper)	2371.460 MHz
Transmitter Manufacturer	Quasonix
Transmitter Model Number	QSX-VSH2-1100
Emission Designator	1M92G1D

Launch Site	Name	Randsburg, CA (FAR)	Latitude	35.35°	Longitude	-117.81°	Elevation 1050m
	Inclination (Min)	Low Altitude	Inclination (Max)	Low Altitude	Altitude (Min)	Low Altitude	Altitude (Max) Low Altitude
Launch Site	Name		Latitude		Longitude		Elevation
	Inclination (Min)		Inclination (Max)		Altitude (Min)		Altitude (Max)
Launch Site	Name		Latitude		Longitude		Elevation
	Inclination (Min)		Inclination (Max)		Altitude (Min)		Altitude (Max)