

## ENR-3.2.5 "Q" ROUTES

## 1. NAVIGATION SPECIFICATION

RNAV routes in Republic of Kazakhstan require RNAV 5 capability. Supported sensors are VOR/DME, INS/IRS, GNSS or their combination.

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Q161 (RNAV 5)	(1) (2) For continuation, see AIP Russia					
▲ TIROM (FIR BDRY)	421434N 0531720E  AKT 128.0° 138.3 NM (100 FT)					Before, see AIP Russia and CIS
	309° 128°	75.4 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119.8 MHZ {C}
△ GIRUL	430826N 0520542E  AKT 127.0° 62.9 NM (100 FT)					
	308° 128°	16.0 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 119.8 MHZ {C}
▲ BALIG	431944N 0515018E  AKT 127.0° 46.9 NM (100 FT)					
	307° 127°	46.9 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
▲ AKTAU DVOR/ DME (AKT)	435220N 0510352E					
	301° 119°	85.2 NM	FL 510 FL 120	Even	Odd	AKTOBE ACC 134.3 MHZ AKTAU TOWER 120.7 MHZ {C}
▲ AZABI (FIR BDRY)	444424N 0493000E  AKT 301.0° 85.2 NM (100 FT)					For continuation, see AIP Russia

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
Q198 (RNAV 5)						
▲ AZABI (FIR BDRY)	444424N 0493000E <b>AKT</b> <b>301.0° 85.2 NM</b> <b>(100 FT)</b>					<b>Before, see AIP Russia</b>

Route designator	[Route Usage Notes]					
Significant Point Name	Significant point coordinates Reference VOR/DME ID Bearing and distance DME Elevation					Remarks
(RNAV / RNP Type)	Track MAG	Dist	Upper limit Lower limit	FL series		Controlling unit {Airspace class} Remarks
				↓	↑	
	079° 259°	28.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ {C}
△ ATNUR	444559N 0500948E <b>AKT</b> <b>316.0° 66.2 NM</b> <b>(100 FT)</b>					
	079° 260°	48.4 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ {C}
△ PIRIM	444808N 0511741E <b>AKT</b> <b>002.0° 56.7 NM</b> <b>(100 FT)</b>					
	080° 260°	26.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ {C}
△ AGILA	444901N 0515422E <b>AKT</b> <b>025.0° 67.3 NM</b> <b>(100 FT)</b>					
	080° 260°	10.2 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 134.3 MHZ {C}
▲ ADPAK	444919N 0520844E <b>AKT</b> <b>031.0° 73.6 NM</b> <b>(100 FT)</b>					
	080° 261°	41.1 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
△ ALOTO	445010N 0530653E <b>BNU</b> <b>241.0° 90.5 NM</b> <b>(0 FT)</b>					
	081° 262°	51.5 NM	FL 510 FL 120	Odd	Even	AKTOBE ACC 119.8 MHZ {C}
▲ BODSI	445034N 0541914E <b>BNU</b> <b>220.0° 45.3 NM</b> <b>(0 FT)</b>					