

ENR 3.3 AREA NAVIGATION (RNAV) ROUTES

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L301 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> PASTO ▲ <u>140005N 0993007E</u> TANEK ▲ <u>140306N 0985819E</u>	 <u>276°</u> 096° 64.0 NM <u>276°</u> 096° 31.0 NM	 <u>FL 460</u> 7 500 FT Class A 8 000 FT		↓ ↑	Longitudinal separation between aircraft 10 min or 80 NM. Route segment between DWI and BKK available for overfly BKK (Bi-directional) and departing from VTBD or VTBS (Westbound).
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L507 (RNAV 2) [GNSS] <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E <u>IGONI</u> ▲ 142633N 0995430E <u>NUNLI</u> ▲ 145127N 0992304E <u>LUDVI</u> ▲ 152849N 0983530E	 310° 130° 52.0 NM 310° 130° 39.0 NM 310° 130° 59.0 NM	 FL 460 9 500 FT Class A 10 000 FT FL 460 FL 145 Class A FL 150	 ↑	 ↓	 Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits	Lateral limits NM 4	Direction of cruising levels 5		Remarks Controlling unit Frequency 6
		Lower limits or Airspace classification Minimum flight altitude 3		Odd	Even	
L515 (RNAV 2) [GNSS] IKULA ▲ 100007N 0972114E MUDMA ▲ 090050N 0975115E UPSAB ▲ 083348N 0980452E PHUKET DVOR/DME (PUT) ▲ 080655N 0981823E						
	$\frac{154^\circ}{334^\circ}$ 66.0 NM	$\frac{FL\ 460}{10\ 500\ FT}$ Class A 11 000 FT/FL 110			↓	
	$\frac{154^\circ}{334^\circ}$ 30.0 NM	$\frac{FL\ 460}{6\ 500\ FT}$ Class A 7 000 FT				
	$\frac{154^\circ}{334^\circ}$ 30.0 NM					↑
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L524 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> IBETO ▲ <u>141036N 0992946E</u> MIGAR ▲ <u>141823N 0985907E</u> NURDA ▲ <u>142451N 0983322E</u>	 286° 105° 66.0 NM 285° 105° 31.0 NM 285° 105° 26.0 NM	 FL 460 9 500 FT Class A 10 000 FT		 ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L645 (RNAV 2) [GNSS] PHUKET DVORDME (PUT) ▲ <u>080655N 0981823E</u> UBHEN ▲ <u>080520N 0974812E</u> SAPAM ▲ <u>080434N 0973300E</u>	 <u>268°</u> 087° 30.0 NM <u>268°</u> 088° 15.0 NM	 <u>FL 460</u> 6 500 FT Class A 7 000 FT		 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L759 (RNAV 2) [GNSS] <u>PHUKET DVOR/DME (PUT)</u> ▲ 080655N 0981823E <u>SATVA</u> ▲ 082902N 0975756E <u>ANPAN</u> ▲ 085116N 0973720E <u>TAVUN</u> ▲ 100000N 0963312E	 $\frac{318^\circ}{138^\circ}$ 30.0 NM $\frac{318^\circ}{138^\circ}$ 30.0 NM $\frac{318^\circ}{138^\circ}$ 93.0 NM	 $\frac{\text{FL 460}}{6\ 500\ \text{FT}}$ Class A 7\ 000\ \text{FT} $\frac{\text{FL 460}}{10\ 500\ \text{FT}}$ Class A 11\ 000\ \text{FT/FL 110}		 ↓ ↑	Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
<p>L877 (RNAV 2) [GNSS]</p> <p>MIGAR</p> <p>▲ 141823N 0985907E</p> <hr/> <p>PUMOR</p> <p>▲ 141420N 0984348E</p>	<p>256°</p> <hr/> <p>075°</p> <p>15.0 NM</p>	<p>FL 460</p> <hr/> <p>9 500 FT</p> <p>Class A</p> <p>10 000 FT</p>		<p>↑</p>	<p>Available for aircraft destination VTBD or VTBS only</p>
<p>For flight planning procedure, see ENR 1.10.</p>					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
L880 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> ANKOS ▲ <u>135300N 1012742E</u> DOSBU ▲ <u>135240N 1015002E</u> ANREN ▲ <u>135212N 1021838E</u> OMURO ▲ <u>135143N 1024559E</u>	 091° 271° 51.0 NM 091° 272° 22.0 NM 092° 272° 28.0 NM 092° 272° 27.0 NM 	 FL 460 10 500 FT Class A 11 000 FT FL 460 FL 145 Class A FL 150 	 	 ↓ 	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
M502 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> BONVO ▲ <u>134410N 0994607E</u> AKATO ▲ <u>133716N 0991019E</u>	 <u>260°</u> 079° 49.0 NM <u>259°</u> 079° 36.0 NM	 <u>FL 460</u> 10 000 FT Class A 11 000 FT/FL 110	 	 <div style="display: flex; justify-content: center; align-items: center;"> <div style="margin-right: 10px;">↓</div> <div style="margin-right: 10px;"> </div> <div style="margin-left: 10px;">↑</div> </div>	Activate Monday to Friday 1500-2300 UTC and Saturday to Sunday H24 Route segment between AKATO and BKK available for overfly BKK (Bi-directional) and departing from VTBD or VTBS (Westbound)
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits	Lateral limits NM	Direction of cruising levels		Remarks Controlling unit Frequency
		Lower limits or Airspace classification Minimum flight altitude		Odd	Even	
1	2	3	4	5		6
M626 (RNAV 2) [GNSS]						
EKAVO						
▲ <u>113737N 0993025E</u>	153° 333°	FL 460 9 500 FT		↓		
MENEX	33.0 NM	Class A				
▲ <u>110831N 0994543E</u>	154° 334°	10 000 FT				
NONEL	17.0 NM					
▲ <u>105301N 0995337E</u>	154° 334°					
APUSA	58.0 NM					
△ <u>100057N 1002007E</u>	154° 334°					
SORTO	8.0 NM					
▲ <u>095353N 1002342E</u>	154° 334°					
UPNEP	13.0 NM					
▲ <u>094213N 1002936E</u>	153° 333°					
VALSI	12.0 NM					
▲ <u>093108N 1003518E</u>	153° 333°					
SUPIN	63.0 NM					
△ <u>083435N 1010419E</u>	153° 333°					
IKOGA	61.0 NM					
▲ <u>073935N 1013235E</u>	153° 333°					
KADAX	94.0 NM				↑	
▲ <u>061602N 1021542E</u>						
For flight planning procedure, see ENR 1.10.						For continuation, see AIP Malaysia.

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	<u>Upper limits</u> <u>Lower limits</u> Airspace Classification 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
M633 (RNAV 2) [GNSS] TANEK ▲ 140306N 0985819E MUBUS ▲ 134530N 1004342E UGIPA ▲ 134524N 1005221E OLTUM ▲ 134439N 1014956E DULEM ▲ 134416N 1021400E TUPGO ▲ 134349N 1023918E	 $\frac{100^\circ}{281^\circ}$ 104.0 NM $\frac{091^\circ}{271^\circ}$ 8.0 NM $\frac{091^\circ}{272^\circ}$ 56.0 NM $\frac{092^\circ}{272^\circ}$ 23.0 NM $\frac{092^\circ}{272^\circ}$ 25.0 NM	 $\frac{FL\ 460}{FL\ 255}$ Class A FL 260 $\frac{FL\ 460}{10\ 500\ FT}$ Class A 11\ 000\ FT $\frac{FL\ 460}{FL\ 145}$ Class A FL 150		 <div style="text-align: right;">↑</div>	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
M644 (RNAV 2) [GNSS] RAYONG DVOR/DME (RYN) ▲ <u>124648N 1014042E</u> ALUMO ▲ <u>104554N 1015123E</u> TONIK △ <u>091736N 1015907E</u> DUGON △ <u>080125N 1020549E</u> ABTOK ▲ <u>061818N 1021744E</u>	 176° 355° 121.0 NM 175° 355° 88.0 NM 175° 355° 76.0 NM 174° 354° 103.0 NM	 FL 460 FL 285 Class A FL 290		 ↓ ↑	 Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
M648 (RNAV 2) [GNSS] UDON DVOR/DME (UDN) ▲ <u>172304N 1024630E</u> MUGNO ▲ <u>175107N 1025753E</u> BOPNU ▲ <u>175826N 1030052E</u>	 $\frac{022^\circ}{202^\circ}$ 30.0 NM $\frac{022^\circ}{202^\circ}$ 8.0 NM	 $\frac{FL\ 460}{6\ 500\ FT}$ Class A 7 000 FT		 ↑	 Uni-directional route southbound Conditional Route (CDR) Availability: <u>CDR1</u> 1. Weekdays, Monday to Friday from 1701-2159 UTC 2. From Friday 1701 UTC to Sunday 2159 UTC 3. Public holidays <u>CDR2</u> Other periods, Availability shall be notified by Airspace use plan (AUP) published in www.thaicmac.aerothai.aero BOPNU (BKK-VTN FIR BDRY)
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
M751 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> POLAK △ <u>132106N 1003454E</u> GUTSO ▲ <u>124820N 1003454E</u> REGOS ▲ <u>120007N 1003454E</u> IDAGA △ <u>110007N 1005348E</u> EMELA ▲ <u>101249N 1010729E</u> MUBAN △ <u>085441N 1012952E</u> TIKAL ▲ <u>080220N 1014448E</u> GOLUD ▲ <u>061706N 1021639E</u>	<div style="text-align: center;"> <u>182°</u> 002° 32.0 NM </div> <div style="text-align: center;"> <u>181°</u> 001° 33.0 NM </div> <div style="text-align: center;"> <u>181°</u> 001° 48.0 NM </div> <div style="text-align: center;"> <u>163°</u> 343° 63.0 NM </div> <div style="text-align: center;"> <u>164°</u> 344° 49.0 NM </div> <div style="text-align: center;"> <u>164°</u> 344° 81.0 NM </div> <div style="text-align: center;"> <u>164°</u> 344° 54.0 NM </div> <div style="text-align: center;"> <u>163°</u> 343° 109.0 NM </div>	<div style="text-align: center;"> <u>FL 460</u> 6 500 FT Class A 7 000 FT </div>		<div style="text-align: center;"> ↓ ↑ </div>	Longitudinal separation between aircraft 10 min. For continuation, see AIP Malaysia.

For flight planning procedure, see ENR 1.10.

Route designator (RNP type) Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits or Airspace classification Minimum flight altitude	Lateral limits NM	Direction of cruising levels Odd Even	Remarks Controlling unit Frequency		
1	2	3	4	5	6		
M757 (RNAV 2) [GNSS]							
BANGKOK DVOR/DME (BKK)							
▲ 135337N 1003546E	175° 355°	FL 460 FL 155		↓	Uni-directional route (southbound)		
▲ KASNI 130450N 1004042E	49.0 NM 182° 002°	Class A FL 160					
▲ ASEKU 120306N 1003905E	61.0 NM 182° 002°						
▲ NULBO 102919N 1003643E	93.0 NM 182° 002°	FL 460 6 500 FT					
▲ MABKO 094809N 1003543E	41.0 NM 182° 002°	Class A 7 000 FT					
▲ VALSI 093108N 1003518E	17.0 NM 182° 002°						
▲ ROBDA 092558N 1003511E	5.0 NM 182° 002°						
▲ LOSDA 085356N 1003425E	32.0 NM 182° 002°						
▲ OBLEX 072948N 1003228E	84.0 NM 181° 001°						
▲ KARM I 062940N 1003121E	60.0 NM						
For flight planning procedure, see ENR 1.10.							

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				Odd	Even		
M769 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ 135337N 1003546E LEBIM ▲ 130515N 1002825E SURMA ▲ 115122N 1002633E GOKEX ▲ 111815N 1002544E DONSI ▲ 100738N 1002401E SORTO ▲ 095353N 1002342E PINUN ▲ 092825N 1002306E RIPMU ▲ 090852N 1002238E DOXAS ▲ 084657N 1002208E DANDO ▲ 073054N 1002024E RIGTO ▲ 064228N 1001504E	189° ——— 009° 49.0 NM	FL 460 ——— FL 155 Class A FL 160				Uni-directional route (northbound)	
	182° ——— 002° 74.0 NM	182° ——— 002° 33.0 NM	182° ——— 002° 70.0 NM				
	182° ——— 002° 14.0 NM						
	182° ——— 002° 25.0 NM			FL 460 ——— FL 125 Class A FL 130			
	182° ——— 002° 19.0 NM	182° ——— 002° 22.0 NM					
	182° ——— 002° 76.0 NM	187° ——— 007° 48.0 NM					
					↑		

For flight planning procedure, see ENR 1.10.

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
M904 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ 135337N 1003546E KIGOB ▲ 130646N 1005106E U-TAPAO DVOR/DME (BUT) ▲ 124000N 1010002E PIDEL ▲ 122143N 1010514E DIPUN △ 120457N 1011011E SIRAT △ 103450N 1013640E TONIK △ 091736N 1015907E TIDAR ▲ 065230N 1025000E	 163° 343° 49.0 NM 162° 342° 28.0 NM 165° 345° 19.0 NM 164° 344° 17.0 NM 164° 344° 93.0 NM 164° 344° 80.0 NM 161° 341° 153.0 NM	 FL 460 6 500 FT Class A 7 000 FT FL 460 FL 145 Class A FL 150 FL 460 FL 245 Class A FL 250		 ↓ ↑	 Between BKK and BUT, aircraft shall keep within the lateral limit for the route and close to the centreline as much as possible to avoid entering VT P7. When VT D71 is activated, M904 is not available for flight planning.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
N506 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> UGIPA ▲ <u>134524N 1005221E</u> GORSI ▲ <u>133055N 1012128E</u> GOMES ▲ <u>132406N 1013506E</u> BERLU ▲ <u>131350N 1015620E</u> BOKAK ▲ <u>125736N 1022947E</u>	 117° 298° 18.0 NM 118° 298° 32.0 NM 118° 298° 15.0 NM 117° 297° 23.0 NM 117° 297° 36.0 NM 	 FL 460 7 500 FT Class A 8 000 FT FL 460 FL 155 Class A FL160 	 	 ↓ 	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
N891 (RNAV 2) [GNSS] <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E <u>DOLNI</u> ▲ 131740N 1011048E <u>RAYONG DVORDME (RYN)</u> ▲ 124648N 1014042E <u>ANOBO</u> △ 110323N 1021442E <u>BENSA</u> ▲ 102631N 1022630E	 137° ----- 317° 49.0 NM 137° ----- 317° 42.0 NM 163° ----- 343° 108.0 NM 163° ----- 343° 38.0 NM	 FL 460 ----- 7 000 FT Class A 8 000 FT FL 460 ----- FL 160 Class A FL 170		 ↓ ↑	 Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
P627 (RNAV 2) [GNSS] <u>PHUKET DVOR/DME (PUT)</u> ▲ 080655N 0981823E <u>ANPUB</u> ▲ 075141N 0975216E <u>RUSET</u> ▲ 074616N 0974257E	 $\frac{240^\circ}{060^\circ}$ 30.0 NM $\frac{240^\circ}{060^\circ}$ 11.0 NM	 $\frac{FL\ 460}{6\ 500\ FT}$ Class A 7 000 FT		 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits	Lateral limits NM 4	Direction of cruising levels Odd Even 5		Remarks Controlling unit Frequency 6
		Lower limits Airspace Classification				
P629 (RNAV 2) [GNSS] <u>BANGKOK DVOR/DME (BKK)</u> ▲ 135337N 1003546E <u>MUBUS</u> ▲ 134530N 1004342E <u>DOLNI</u> ▲ 131740N 1011048E <u>NUGPA</u> ▲ 130254N 1014959E <u>OLDIR</u> ▲ 125401N 1021325E <u>VAPVU</u> ▲ 124701N 1023149E						
	$\frac{137^\circ}{317^\circ}$	$\frac{\text{FL 460}}{7\,500\text{ FT}}$				
	11.0 NM	Class A 8\,000 FT				
	$\frac{137^\circ}{317^\circ}$					
	38.0 NM					
	$\frac{112^\circ}{292^\circ}$					
41.0 NM						
$\frac{112^\circ}{292^\circ}$						
25.0 NM						
$\frac{112^\circ}{292^\circ}$		$\frac{\text{FL 460}}{\text{FL 155}}$				
19.0 NM	Class A FL 160			↑		
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
P646 (RNAV 2) [GNSS] <u>BANGKOK DVOR/DME (BKK)</u> ▲ <u>135337N 1003546E</u> <u>TARED</u> ▲ <u>142620N 0993129E</u> <u>BETNO</u> ▲ <u>150554N 0981231E</u>	 $\frac{298^\circ}{118^\circ}$ 70.0 NM $\frac{298^\circ}{118^\circ}$ 86.0 NM	 $\frac{FL\ 460}{9\ 500\ FT}$ Class A 10 000 FT	 ↑	 ↓	 Longitudinal separation between aircraft 10 min.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y1 (RNAV 2) [GNSS] UDON DVOR/DME (UDN) ▲ <u>172304N 1024630E</u> TERCO ▲ <u>165550N 1023308E</u> UBL0D ▲ <u>143715N 1012612E</u> PIPOB ▲ <u>142236N 1011914E</u>	 <u>206°</u> 026° 30.0 NM <u>206°</u> 026° 152.0 NM <u>206°</u> 026° 16.0 NM	 <u>FL 460</u> 12 000 FT Class A 13 000 FT <u>FL 460</u> 6 500 FT Class A 7 000 FT		 ↓ 	 Activate Monday to Friday 1000-2300 UTC and Saturday-Sunday H24 Expect ATC clearance transition to Initial waypoint STAR
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y2 (RNAV 2) [GNSS] KHON KAEN DVOR/DME (KKN) ▲ <u>162815N 1024716E</u> NEMTE ▲ <u>160345N 1022913E</u> UBLOD ▲ <u>143715N 1012612E</u> PIPOB ▲ <u>142236N 1011914E</u>	 216° — 036° 30.0 NM 216° — 036° 105.0 NM 206° — 026° 16.0 NM	 FL 460 — 12 000 FT/FL 120 Class A 13 000 FT/FL 130 FL 460 — 6 500 FT Class A 7 000 FT		 ↓	 Activate Monday to Friday 1000-2300 UTC and Saturday-Sunday H24 Expect ATC clearance transition to Initial waypoint STAR
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y3 (RNAV 2) [GNSS] MENEX ▲ <u>110831N 0994543E</u> DORNA ▲ <u>092459N 0994614E</u> TEDOS ▲ <u>084834N 0990507E</u> MONBU ▲ <u>082659N 0984056E</u> PHUKET DVOR/DME (PUT) ▲ <u>080655N 0981823E</u>	 180° 000° 103.0 NM 229° 049° 55.0 NM 229° 049° 32.0 NM 229° 049° 30.0 NM	 FL 460 7 000 FT Class A 8 000 FT		 ↓	Uni-directional route 1. Y3 (southbound) and Y4 (northbound) available when VTD58 is activated. 2. Aircraft shall keep within the lateral limit 5 NM either side of the route and close to the centreline as much as possible to avoid entering VTD58
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits or Airspace classification Minimum flight altitude	Lateral limits NM	Direction of cruising levels		Remarks Controlling unit Frequency
				Odd	Even	
1	2	3	4	5		6
Y5 (RNAV 2) [GNSS] PHUKET DVOR/DME (PUT) ▲ 080655N 0981823E IGEVI ▲ 083640N 0982320E ANDAX △ 090441N 0983545E NOMEK ▲ 093404N 0984835E CHUM PHON DVOR/DME (CPN) ▲ 104240N 0992156E MENEX ▲ 110831N 0994543E EGUBO ▲ 112838N 1000450E UPVIL ▲ 113836N 1001421E SURMA ▲ 115122N 1002633E	 010° 190° 30.0 NM 024° 204° 31.0 NM 024° 204° 32.0 NM 026° 206° 76.0 NM 043° 223° 35.0 NM 044° 224° 28.0 NM 044° 224° 14.0 NM 044° 224° 18.0 NM	 FL 460 6 500 FT Class A 7 000 FT FL 460 12 500 FT/FL 125 Class A 13 000 FT/FL 130		↓		Uni-directional route (northbound) Conditional Route (CDR) 1. Available on weekdays (Monday to Friday) from 1700- 2200 UTC. 2. Available from Friday 1700 UTC to Sunday 2200 UTC and public holiday. 3. Other periods, Availability shall be notified by NOTAM or Airspace use plan (ASU) in www.thaicmac.aerothai.aero
For flight planning procedure, see ENR 1.10.						

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5		Remarks Controlling unit Frequency 6	
Y6 (RNAV 2) [GNSS]							
BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u>	<u>337°</u> 157°	<u>FL 460</u> 12 500 FT/FL 125			↓		
TANGO ▲ <u>144022N 1001433E</u>	51.0 NM <u>343°</u> 163°	Class A 13 000 FT/FL 130					
DUKEN △ <u>150006N 1000808E</u>	21.0 NM <u>343°</u> 163°	<u>FL 460</u> <u>FL 245</u>					
BORNO ▲ <u>162057N 0994139E</u>	84.0 NM <u>343°</u> 163°	Class A FL 250					
SANAL △ <u>163705N 0993619E</u>	17.0 NM <u>343°</u> 163°	<u>FL 460</u> 12 500 FT/FL 125					
RINKA △ <u>173746N 0991609E</u>	63.0 NM <u>343°</u> 163°	Class A 13 000 FT/FL 130					
MARNI ▲ <u>180836N 0990549E</u>	32.0 NM <u>349°</u> 169°	Class A 7 000 FT					
CHIANG MAI DVOR/DME (CMA) ▲ <u>184558N 0985740E</u>	38.0 NM						
For flight planning procedure, see ENR 1.10.							


Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y7 (RNAV 2) [GNSS] PANTA ▲ 181351N 0991917E KEXIL △ 174204N 0992954E PAKMO ▲ 162013N 0995656E TAKHLI NDB (TL) ▲ 151633N 1001751E	 163° 343° 33.0 NM 163° 343° 86.0 NM 163° 343° 67.0 NM	 FL 460 6 500 FT Class A 7 000 FT FL 460 12 500 FT/FL 125 Class A 13 000 FT/FL 130	 	 ↓	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits	Lateral limits NM 4	Direction of cruising levels Odd Even 5		Remarks Controlling unit Frequency 6	
		Lower limits or Airspace classification Minimum flight altitude 3					
Y8 (RNAV 2) [GNSS]							
▲ <u>BANGKOK DVOR/DME (BKK)</u> 135337N 1003546E	197° 017° 44.0 NM	FL 460 12 500 FT/FL 125 Class A			↓ Uni-directional route (southbound)		
▲ <u>MOTNA</u> 131110N 1002306E	226° 046° 16.0 NM	13 000 FT/FL 130					
▲ <u>SABIS</u> 125959N 1001125E	226° 046° 35.0 NM						
▲ <u>VANKO</u> 123511N 0994538E	180° 000° 51.0 NM						
▲ <u>BUXEL</u> 114342N 0994540E	180° 000° 35.0 NM						
▲ <u>MENEX</u> 110831N 0994543E	198° 018° 101.0 NM	FL 460 7 500 FT Class A					
▲ <u>IKERA</u> 093146N 0991532E	198° 018° 25.0 NM	8 000 FT					
▲ <u>SURAT THANI DVOR/DME (STN)</u> 090746N 0990805E	220° 040° 25.0 NM	FL 460 6 500 FT Class A					
▲ <u>LAMUL</u> 084818N 0985208E	219° 039° 23.0 NM	7 000 FT					
▲ <u>SAVSA</u> 083016N 0983729E	220° 040° 30.0 NM						
▲ <u>PHUKET DVOR/DME (PUT)</u> 080655N 0981823E							
For flight planning procedure, see ENR 1.10.							

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y9 (RNAV 2) [GNSS] DANDO ▲ 073054N 1002024E HAT YAI DVOR/DME (HTY) ▲ 065603N 1002316E	 176° — 356° 35.0 NM	 FL 460 — 6 500 FT Class A 7 000 FT	 	 ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y10 (RNAV 2) [GNSS] OBLEX ▲ 072948N 1003228E HAT YAI DVOR/DME (HTY) ▲ 065603N 1002316E	 196° 015° 35.0 NM	 FL 460 6 500 FT Class A 7 000 FT		 ↓	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
<p>Y11 (RNAV 2) [GNSS]</p> <p>▲ <u>KIGOB</u> 130646N 1005106E</p> <p>▲ <u>U-TAPAO DVOR/DME (BUT)</u> 124000N 1010002E</p> <p>▲ <u>PIDEL</u> 122143N 1010514E</p> <p>△ <u>NOMEP</u> 113830N 1010454E</p> <p>▲ <u>RILVI</u> 102334N 1012142E</p> <p>▲ <u>TENUM</u> 090229N 1013948E</p> <p>▲ <u>PASVA</u> 061529N 1020431E</p>	<p>162° 342°</p> <p>28.0 NM</p> <p>165° 345°</p> <p>19.0 NM</p> <p>181° 001°</p> <p>43.0 NM</p> <p>168° 348°</p> <p>76.0 NM</p> <p>168° 348°</p> <p>83.0 NM</p> <p>172° 352°</p> <p>168.0 NM</p>	<p>FL 460 FL 155</p> <p>Class A FL 160</p> <p>FL 460 FL 245</p> <p>Class A FL 250</p>		<p>↓</p>	<p>When VTD71 is activated, Y11 is not available for flight planning.</p> <p>Between KIGOB and BUT, aircraft shall fly on the centerline of the route as much as possible to avoid entering VTP7.</p>
<p>For flight planning procedure, see ENR 1.10.</p>					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y12 (RNAV 2) [GNSS] DOLNI ▲ 131740N 1011048E ALEMI ▲ 123626N 1012600E ALUMO ▲ 104554N 1015123E	 $\frac{161^\circ}{341^\circ}$ 44.0 NM $\frac{168^\circ}{348^\circ}$ 113.0 NM	 $\frac{FL\ 460}{FL\ 155}$ Class A FL 160		 	 When VTR13 is activated, Y12 is not available for flight planning.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y13 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> PIPOB ▲ <u>142236N 1011914E</u> RUKSA ▲ <u>143351N 1015512E</u> PAKRI ▲ <u>145202N 1025409E</u> GRASO ▲ <u>150917N 1034714E</u>	 <u>056°</u> 236° 51.0 NM <u>073°</u> 253° 37.0 NM <u>073°</u> 253° 60.0 NM <u>072°</u> 252° 54.0 NM	 <u>FL 460</u> 6 500 FT Class A 7 000 FT <u>FL 460</u> <u>FL 205</u> Class A FL 210		 ↑	 Available for aircraft with VTBS as destination only.
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y14 (RNAV 2) [GNSS] SELKA ▲ 142020N 1015311E KHORAT DVOR/DME (KRT) ▲ 145502N 1020823E	 024° 204° 38.0 NM	 FL 460 FL 205 Class A FL 210	 	 ↓	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y15 (RNAV 2) [GNSS] SANOT △ 145134N 1032548E GRASO ▲ 150917N 1034714E GUROK ▲ 160329N 1041106E	 050° 230° 27.0 NM 024° 204° 59.0 NM	 FL 460 FL 205 Class A FL 210	 	 ↓ 	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y16 (RNAV 2) [GNSS] BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u> UPKUP ▲ <u>140353N 1012655E</u> LIPLI ▲ <u>141028N 1015756E</u> XIKMA ▲ <u>142236N 1023626E</u> PEKBA ▲ <u>144808N 1034733E</u> BUTRA ▲ <u>152506N 1053546E</u>	 079° — 259° 51.0 NM 078° — 258° 31.0 NM 073° — 253° 39.0 NM 070° — 251° 73.0 NM 071° — 252° 111.0 NM	 FL 460 — 7 500 FT Class A 8 000 FT FL 460 — FL 205 Class A FL 210		 ↓	
For flight planning procedure, see ENR 1.10.					



Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y17 (RNAV 2) [GNSS] SAMUI DVORDME (SMU) ▲ <u>093249N 1000342E</u> OLBAG ▲ <u>095849N 1001852E</u> APUSA △ <u>100057N 1002007E</u> DONSI ▲ <u>100738N 1002401E</u>	 <u>030°</u> <u>210°</u> 30.0 NM <u>030°</u> <u>210°</u> 2.0 NM <u>031°</u> <u>211°</u> 8.0 NM 	 <u>FL 460</u> 4 500 FT Class A 5 000 FT 		 ↓ 	 Uni-directional route (northbound)
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y18 (RNAV 2) [GNSS] <u>HAT YAI DVOR/DME (HTY)</u> ▲ 065603N 1002316E TONUUV ▲ 062319N 1011127E PETAC ▲ 061740N 1011945E <u>BETONG DVOR/DME (BET)</u> ▲ 054708N 1010839E	 124° 304° 58.0 NM 124° 304° 10.0 NM 200° 020° 32.0 NM	 FL 460 6 500 FT Class A 7 000 FT	 	 ↓ ↑	Conditional Route (CDR) 1. Available on weekdays, Monday to Friday 1100-2300 UTC. 2. Available from Friday 1100 UTC to Sunday 2300 UTC and public holiday. 3. Other period, Availability shall be notified by NOTAM or Airspace use plan (AUP) in www.thaicmac.aerothai.aero

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y19 (RNAV 2) [GNSS] PATTANI NDB (PT) ▲ 064718N 1010853E LERNI ▲ 062706N 1011618E PETAC ▲ 061740N 1011945E BETONG DVOR/DME (BET) ▲ 054708N 1010839E	 160° 340° 21.0 NM 160° 340° 10.0 NM 200° 020° 32.0 NM 	 FL 460 6 500 FT Class A 7 000 FT 	 	 ↓ ↑	Conditional Route (CDR) 1. Available on weekdays, Monday to Friday 1100-2300 UTC. 2. Available from Friday 1100 UTC to Sunday 2300 UTC and public holiday. 3. Other period, Availability shall be notified by NOTAM or Airspace use plan (AUP) in www.thaicmac.aerothai.aero

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y20 (RNAV 2) [GNSS]					
BANGKOK DVOR/DME (BKK) ▲ 135337N 1003546E	044° 224°	FL 460 6 500 FT		↓	
MALKI ▲ 143111N 1011153E	51.0 NM	Class A 7 000 FT			
UBLOD ▲ 143715N 1012612E	067° 247°	FL 460 12 500 FT / FL 125			
KHORAT DVOR/DME (KRT) ▲ 145502N 1020823E	45.0 NM	Class A 13 000 FT / FL 130			
RAMEI ▲ 150240N 1030040E	082° 262°	FL 460 6 500 FT			
RAMBU ▲ 150554N 1032319E	22.0 NM	Class A 7 000 FT			
GRASO ▲ 150917N 1034714E	082° 262°				
UBON DVOR/DME (UBL) ▲ 151443N 1045157E	23.0 NM			↑	
UBON DVOR/DME (UBL) ▲ 151443N 1045157E	086° 266°				
UBON DVOR/DME (UBL) ▲ 151443N 1045157E	63.0 NM				
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y21 (RNAV 2) [GNSS] UDON DVOR/DME (UDN) ▲ <u>172304N 1024630E</u> POVEX ▲ <u>165905N 1030530E</u> DOTUS ▲ <u>163103N 1032732E</u> ROI-ET DVORDME (ROT) ▲ <u>160701N 1034619E</u> ENTEK ▲ <u>154755N 1041024E</u> UBON DVOR/DME (UBL) ▲ <u>151443N 1045157E</u>	 $\frac{144^\circ}{324^\circ}$ 30.0 NM $\frac{144^\circ}{324^\circ}$ 35.0 NM $\frac{144^\circ}{324^\circ}$ 30.0 NM $\frac{130^\circ}{310^\circ}$ 30.0 NM $\frac{130^\circ}{310^\circ}$ 52.0 NM	 $\frac{\text{FL 460}}{6\ 500\ \text{FT}}$ Class A 7\ 000\ \text{FT}		 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y22 (RNAV 2) [GNSS] UDON DVOR/DME (UDN) ▲ 172304N 1024630E ANPUS ▲ 165800N 1024651E ALGIT ▲ 165300N 1024655E KHON KAEN DVOR/DME (KKN) ▲ 162815N 1024716E SEDNO ▲ 161733N 1031707E ROI-ET DVOR/DME (ROT) ▲ 160701N 1034619E ENTEK ▲ 154755N 1041024E UBON DVOR/DME (UBL) ▲ 151443N 1045157E	 180° <u> </u> 000° 25.0 NM 180° <u> </u> 000° 5.0 NM 180° <u> </u> 000° 25.0 NM 111° <u> </u> 291° 31.0 NM 111° <u> </u> 291° 30.0 NM 130° <u> </u> 310° 30.0 NM 130° <u> </u> 310° 52.0 NM	 <u>FL 460</u> 10 500 FT Class A 11 000 FT <u>FL 460</u> 6 500 FT Class A 7 000 FT		 <div style="text-align: center;">   </div>	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits or Airspace classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y23 (RNAV 2) [GNSS] KHORAT DVOR/DME (KRT) ▲ <u>145502N 1020823E</u> EMRUT ▲ <u>160020N 1023533E</u> KHON KAEN DVOR/DME (KKN) ▲ <u>162815N 1024716E</u> AKRET ▲ <u>164016N 1030856E</u> SAKON NAKHON DVOR/DME (SKN) ▲ <u>171251N 1040812E</u> NAKHON PHANOM DVOR/DME (NKP) ▲ <u>172318N 1043818E</u>	 $\frac{023^\circ}{203^\circ}$ 70.0 NM $\frac{023^\circ}{203^\circ}$ 30.0 NM $\frac{061^\circ}{241^\circ}$ 24.0 NM $\frac{061^\circ}{241^\circ}$ 65.0 NM $\frac{071^\circ}{251^\circ}$ 31.0 NM	 $\frac{FL\ 460}{6\ 500\ FT}$ Class A 7 000 FT	 	 ↓ ↑	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y93 (RNAV 2) [GNSS] ▲ <u>AKVUG</u> 090349N 0992219E △ <u>OTGOL</u> 091306N 0993248E ▲ <u>DORNA</u> 092459N 0994614E ▲ <u>SAMUI DVOR/DME (SMU)</u> 093249N 1000342E	 <u>049°</u> <u>229°</u> 14.0 NM <u>049°</u> <u>229°</u> 18.0 NM <u>066°</u> <u>246°</u> 19.0 NM	 <u>FL 460</u> <u>7 500 FT</u> Class A 8 000 FT <u>FL 460</u> <u>4 500 FT</u> Class A 5 000 FT	 	 ↓ 	 Uni-directional route (northbound)
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y94 (RNAV 2) [GNSS] NAKHON SI THAM- MARAT DVOR/DME (NKS) ▲ 083230N 0995649E DOXAS ▲ 084657N 1002208E LOSDA ▲ 085356N 1003425E	 <div style="display: flex; flex-direction: column; align-items: center;"> <div style="text-align: center;">$\frac{061^\circ}{241^\circ}$</div> <div style="text-align: center;">29.0 NM</div> </div> <hr/> <div style="text-align: center;">$\frac{061^\circ}{241^\circ}$</div> <div style="text-align: center;">14.0 NM</div>	 <div style="display: flex; flex-direction: column; align-items: center;"> <div style="text-align: center;">$\frac{FL\ 460}{4\ 500\ FT}$</div> <div style="text-align: center;">Class A</div> <div style="text-align: center;">5 000 FT</div> </div> <hr/> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="text-align: center;">$\frac{FL\ 460}{6\ 500\ FT}$</div> <div style="text-align: center;">Class A</div> <div style="text-align: center;">7 000 FT</div> </div>	 	 <div style="display: flex; flex-direction: column; align-items: center;"> <div style="text-align: center;">↓</div> <div style="text-align: center; margin-top: 100px;">↑</div> </div>	
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type) Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits	Lateral limits NM 4	Direction of cruising levels		Remarks Controlling unit Frequency 6	
		Lower limits Airspace Classification Minimum flight altitude 3		Odd	Even		
Y95 (RNAV 2) [GNSS]							
<u>SAMUI DVOR/DME (SMU)</u> ▲ 093249N 1000342E	<u>142°</u> 322° 20.0 NM	<u>FL 460</u> 4 500 FT Class A		↓			
<u>RUMVA</u> ▲ 091717N 1001600E	<u>142°</u> 322° 2.0 NM	5 000 FT					
<u>PAGLU</u> △ 091549N 1001709E	<u>142°</u> 322° 9.0 NM	<u>FL 460</u> 6 500 FT Class A					
<u>RIPMU</u> ▲ 090852N 1002238E	<u>142°</u> 322° 9.0 NM	7 000 FT					
<u>APOBI</u> ▲ 090147N 1002814E	<u>142°</u> 322° 10.0 NM						
<u>LOSDA</u> ▲ 085356N 1003425E	<u>142°</u> 322° 34.0 NM						
<u>IDRUK</u> ▲ 082724N 1005513E	<u>142°</u> 322° 60.0 NM	<u>FL 460</u> 9 500 FT Class A					
<u>IKOGA</u> ▲ 073935N 1013235E		10 000 FT			↑		
For flight planning procedure, see ENR 1.10.							

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y96 (RNAV 2) [GNSS] GOKEX ▲ 111815N 1002544E OLSEL ▲ 113411N 1001649E UPVIL ▲ 113836N 1001421E EMTIX ▲ 114931N 1000814E	 $\frac{332^\circ}{152^\circ}$ 18.0 NM $\frac{332^\circ}{152^\circ}$ 5.0 NM $\frac{332^\circ}{152^\circ}$ 12.0 NM	 $\frac{\text{FL 460}}{7\ 500\ \text{FT}}$ Class A 8 000 FT		 ↓	Uni-directional route (northbound)
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y98 (RNAV 2) [GNSS] NONEL ▲ <u>105301N 0995337E</u> OLSEL ▲ <u>113411N 1001649E</u> SURMA ▲ <u>115122N 1002633E</u> LEBIM ▲ <u>130515N 1002825E</u> BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u>	 <u>030°</u> 210° 47.0 NM <u>030°</u> 210° 20.0 NM <u>002°</u> 182° 74.0 NM <u>009°</u> 189° 49.0 NM	 <u>FL 460</u> 7 500 FT Class A 8 000 FT	 	 ↓ 	 Uni-directional route (northbound)
For flight planning procedure, see ENR 1.10.					

Route designator (RNP type)* Name of significant points Coordinates 1	Track MAG (GEO) VOR RDL DIST (COP) 2	Upper limits Lower limits Airspace Classification Minimum flight altitude 3	Lateral limits NM 4	Direction of cruising levels Odd Even 5	Remarks Controlling unit Frequency 6
Y99 (RNAV 2) [GNSS] PHUKET DVOR/DME (PUT) ▲ <u>080655N 0981823E</u> EMRIT ▲ <u>080621N 0984840E</u> KRABI DVORDME (KBI) ▲ <u>080627N 0985839E</u> OSPEX ▲ <u>082015N 0991319E</u> BITEN ▲ <u>082659N 0992029E</u> EMVEL ▲ <u>084438N 0992122E</u> AKVUG ▲ <u>090349N 0992219E</u> VEGNA ▲ <u>091427N 0992251E</u> NIXET ▲ <u>092517N 0992613E</u> NONEL ▲ <u>105301N 0995337E</u> EGUBO ▲ <u>112838N 1000450E</u> EMTIX ▲ <u>114931N 1000814E</u> HOTEL ▲ <u>130006N 1001948E</u> MOTNA ▲ <u>131110N 1002306E</u> BANGKOK DVOR/DME (BKK) ▲ <u>135337N 1003546E</u>	 092° 272° 30.0 NM 090° 270° 10.0 NM 047° 227° 20.0 NM 047° 227° 10.0 NM 003° 183° 18.0 NM 003° 183° 19.0 NM 003° 183° 11.0 NM 018° 198° 11.0 NM 018° 198° 91.0 NM 018° 198° 37.0 NM 010° 190° 21.0 NM 010° 190° 71.0 NM 017° 197° 12.0 NM 017° 197° 44.0 NM	 FL 460 6 500 FT Class A 7 000 FT FL 460 7 500 FT Class A 8 000 FT		 ↓	 Uni-directional route (northbound)
For flight planning procedure, see ENR 1.10.					

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