

Approval Sheet

(產品承認書)

產品名稱	(Product)	BLE AT Command Module
		in Peripheral / Slave role
解決方案	(Solution)	Nordic nRF52810 QFN Package
產品型號	(Model No.)	MDBT42Q – AT (Chip Antenna)
		MDBT42Q – P AT (PCB Antenna)
韌體版本	(FW Rev.)	1.4

Advantage of MDBT42Q & MDBT42Q-P series:

1. Long working distance under 1 Mbps:
MDBT42Q: over 80 meters in open space.
MDBT42Q-P: up to 60 meters in open space.
2. Declaration ID includes all Nordic applied profiles.
3. Granted main regional certification such as FCC (USA), CE(EU)
TELEC (Japan), SRRC (China), IC (Canada), NCC (Taiwan), and KC (South Korea)

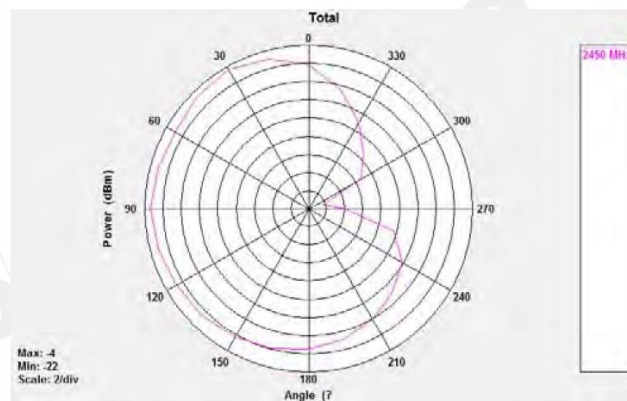
9. Antenna

9.1. MDBT42Q Series

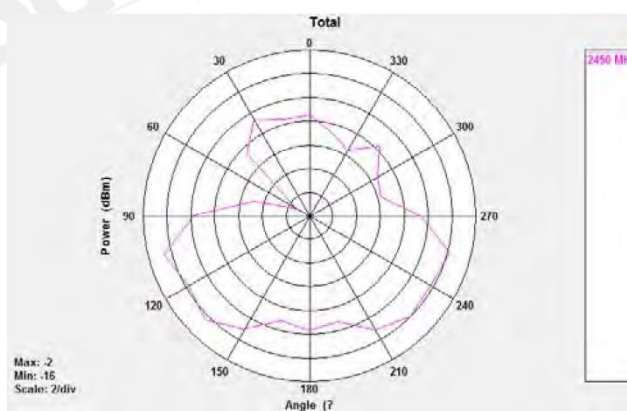
Test Result

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	-3.68	-2.91	-2.34	-1.98	-1.66	-1.60	-1.77	-2.09	-2.60	-3.35	-4.10
Peak EIRP (dBm)	-3.68	-2.91	-2.34	-1.98	-1.66	-1.60	-1.77	-2.09	-2.60	-3.35	-4.10
Directivity (dBi)	4.98	5.11	5.12	5.02	4.93	4.76	4.58	4.38	4.11	3.77	3.42

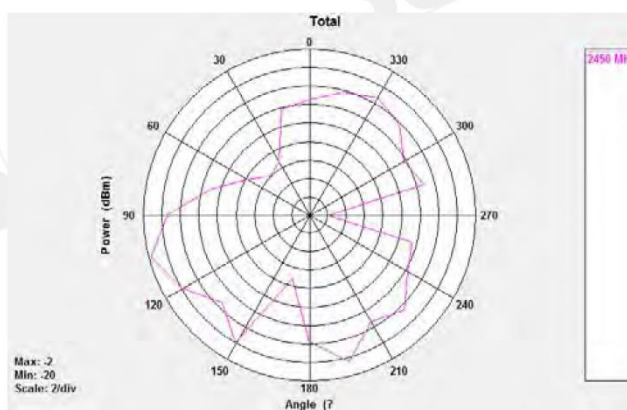
**Free Space
EIRP (2450 MHz) – XY cut**



**Free Space
EIRP (2450 MHz) – XZ cut**



**Free Space
EIRP (2450 MHz) – YZ cut**



9.2. MDBT42Q-P Series

Test Result

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	-3.87	-3.06	-2.31	-2.01	-2.04	-2.31	-2.24	-1.96	-1.61	-1.71	-1.97
Peak EIRP (dBm)	-3.87	-3.06	-2.31	-2.01	-2.04	-2.31	-2.24	-1.96	-1.61	-1.71	-1.97
Directivity (dBi)	3.79	4.00	4.25	4.17	3.86	3.51	3.54	3.91	4.39	4.44	4.49

