

Approval Sheet

(產品承認書)

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

Advantage of MDBT42Q & MDBT42Q-P series:

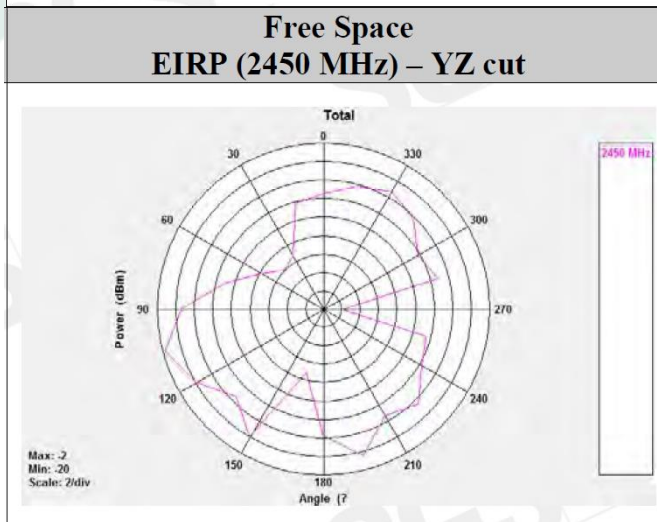
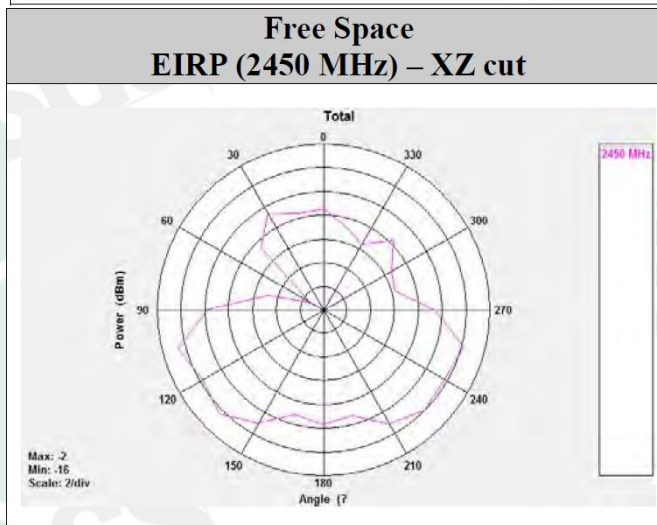
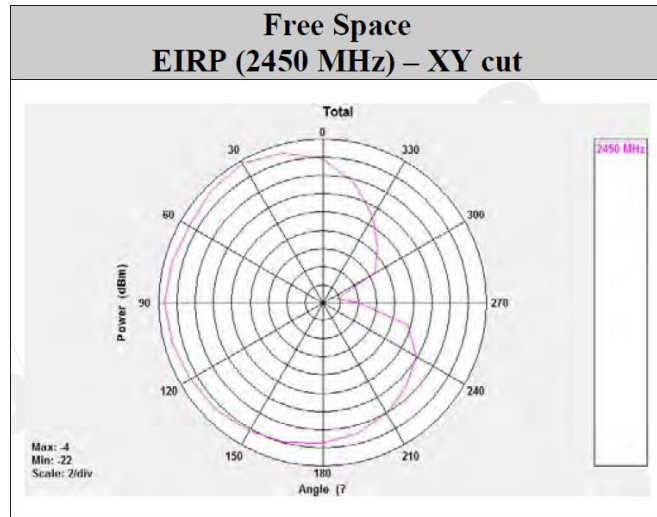
- 1. Long working distance under 1 Mbps:
MDBT42Q: over 80 meters in open space.
MDBT42Q-P: up to 60 meters in open space.*
- 2. Declaration ID includes all Nordic applied profiles.*
- 3. Granted main regional certification such as FCC (USA), CE(EU)
TELEC (Japan), SRRC (China), IC (Canada), NCC (Taiwan),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



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

