



1. Introduction Section

The original model (FCC ID: P4Q-N536B) and the variant model (FCC ID: P4Q-N536A) has identical PCB layout, antenna, SW implementation for Bluetooth/Wi-Fi/GPS. Based on their similarity, the FCC Part 15C & 15E (equipment class: DTS, DSS,DXX, NII) test data issued for original model also apply for the variant model.

The applicant takes full responsibility that the test data as referenced in section 4 below represent compliance for this FCC ID (FCC ID: P4Q-N536A).



2. Difference Section

The original model (FCC ID: P4Q-N536B) and the variant model (FCC ID: P4Q-N536A) has identical PCB layout, antenna, SW implementation for Bluetooth/Wi-Fi/GPS. The details of similarity and difference can be found in the Product Equality Declaration.

The product specification is outlined in the following table:

FCC ID		P4Q-N536B	P4Q-N536A
Wireless Tech	Mode	Frequency (MHz)	
UMTS	AMR/RCM12.2Kbps HSDPA/HSUPA/DC-HSDPA	B2/B5	Not supported
LTE	QPSK/16QAM VoLTE	B2/ B4/ B5/ B12	Not supported
Wi-Fi	11b/11g/11n(HT20)	2412-2462 MHz	
	11a/11n(HT20)/11n(HT40)	5180-5240 MHz 5260-5320 MHz 5500-5700 MHz 5745-5825 MHz	
Bluetooth	BR/EDR/LE	2402-2480 MHz	
NFC	NFC	13.56 MHz	



3. Spot Check Verification Data Section

Summary of the spot check:

Test Item	Mode	P4Q-N536B (-10) Worst Result	P4Q-N536A Worst Result	Difference (dB)
Average Conducted Power (dBm)	802.11b	20.13	20.15	-0.02
	802.11g	20.48	20.47	-0.01
	11n HT20 (ch06)	18.86	18.82	-0.04
	20MHz BW 5150-5250MHz	19.15	19.16	0.01
	20MHz BW 5250-5350MHz	21.42	21.41	-0.01
	20MHz BW 5470-5725MHz	21.77	21.80	0.03
	20MHz BW 5725-5850MHz	21.29	21.30	0.01
	40MHz BW 5150-5250MHz	19.27	19.29	0.02
	40MHz BW 5250-5350MHz	20.04	20.03	-0.01
	40MHz BW 5470-5725MHz	19.79	19.77	0.02
	40MHz BW 5725-5850MHz	17.94	17.96	0.02
	BT (1Mbps)	9.16	9.17	0.01
	BT (2Mbps)	7.10	7.11	0.01
	BT (3Mbps)	6.93	6.94	0.01
	BT-LE	-0.46	-0.47	-0.01
	Test date	2018.04.28~2018.05.30	2018.04.28~2018.07.24	
Peak Radiated Spurious Emission (Band Edge) (dBuV/m)	802.11b			
	802.11g			
	11n HT20	70.6	70.34	-0.26
	20MHz BW 5150-5250MHz			
	20MHz BW 5250-5350MHz	60.73	60.63	-0.10
	20MHz BW 5470-5725MHz			
	20MHz BW 5725-5850MHz	61.68	59	-2.68
	40MHz BW 5150-5250MHz			
	40MHz BW 5250-5350MHz			
	40MHz BW 5470-5725MHz			
	40MHz BW 5725-5850MHz			
	BT (1Mbps)	49.24	49.92	0.68
	BT-LE	54.13	57.03	2.9
	Test date	2018.05.14~2018.05.23	2018.05.15~2018.07.25	
Average Radiated Spurious Emission (Band Edge) (dBuV/m)	802.11b			
	802.11g			
	11n HT20	50.29	51.15	0.86
	20MHz BW 5150-5250MHz			
	20MHz BW 5250-5350MHz	49.08	48.94	-0.14
	20MHz BW 5470-5725MHz			
	20MHz BW 5725-5850MHz			
	40MHz BW 5150-5250MHz			
	40MHz BW 5250-5350MHz			
	40MHz BW 5470-5725MHz			
	40MHz BW 5725-5850MHz			
	BT (1Mbps)	24.47	25.16	0.69
	BT-LE	42.98	45.6	2.62
	Test date	2018.05.14~2018.05.23	2018.05.15~2018.07.25	
Peak Radiated Spurious Emission (Harmonic) (dBuV/m)	802.11b			
	802.11g			
	11n HT20	38.57	38.52	-0.05
	20MHz BW 5150-5250MHz			
	20MHz BW 5250-5350MHz	52.42	53.44	1.02
	20MHz BW 5470-5725MHz			

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	20MHz BW 5725-5850MHz	52.16	54.58	2.42
	40MHz BW 5150-5250MHz			
	40MHz BW 5250-5350MHz			
	40MHz BW 5470-5725MHz			
	40MHz BW 5725-5850MHz			
	BT (1Mbps)	44.92	44.88	-0.04
	BT-LE	43.86	45.84	1.98
	Test date	2018.05.14~2018.05.23	2018.05.15~2018.07.25	

Conclusion:

WLAN Radiated spurious emission test against the variant model for non-cellular part based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result (power levels measured are within 0.5dB, and the worst case of RSE spot check verification based on the worst condition from the original model is within 3dB, and are compliance with the limits), the test data from the original model is representative for the variant model.

The unwanted, harmonics, radiated spurious emission is reported peak measurement only due to spurious lower than 20dB than the limit.

The detail test results can be found in this document, Appendix A, hereafter.



4. Reference detail Section

Equipment Class	Reference FCC ID	Type Grant/Permissive Change	Reference Application	Folder Test/RF Exposure	Report Title
DTS	P4Q-N536B	Original Grant	FR720610-10B	Part 15C	All sections applicable
			FR720610-10C	Part 15C	All sections applicable
DSS	P4Q-N536B	Original Grant	FR720610-10A	Part 15C	All sections applicable
NII	P4Q-N536B	Original Grant	FR720610-10E FZ720610-10	Part 15E	All sections applicable

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Product Equality Declaration

We, MiTAC Digital Technology Corporation, declare on our sole responsibility for the product N536B difference as below:

The Hardware difference between N536B(720610-10) and N536A(720610-11):

- ◆ Remove WWAN Module.
- ◆ Change model name to N536A.

Except Listings above, the others are the same as previous version.

Should you have any questions or comments regarding this matter, please have my best attention.

Sincerely yours,



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