

Validation test plan

Product information:

Product Name: Portable Data Processing Terminal
 Original FCC ID: 2AH25T5F2AN IC: 22621-T5F2AN
 Variant FCC ID: 2AH25T5F2A IC: 22621-T5F2A

Evaluation test plan:

According to the product change description, FCC ID will be changed. The front camera, NFC and scanner are removed. LCD different

Description		CP U	Frequency Band	FCC ID	IC	HVIN	Front Camera	eS IM	N F C	scan ner	LCD
Original (main test prototype)	Configuration 1	6225	2G:B2/3/5/8 3G:B1/2/4/5/6/8/19 4G:B1/2/3/4/5/7/8/12 /13/17/18/19/20/25/2 6/28/30/66171/34/38/ 39/40/41	2AH2 5T5F 2AN	2262 1- T5F2 AN	T5F2 AN	Y	Y	Y	Y	TXDY675EB APUB-13V9
variant	Configuration 2	6225	2G:B2/3/5/8 3G:B1/2/4/5/6/8/19 4G:B1/2/3/4/5/7/8/12 /13/17/18/19/20/25/2 6/28/30/66171/34/38/ 39/40/41	2AH2 5T5F 2A	2262 1- T5F2 A	T5F2 A	N	N	N	N	TXDY675EB APUB-13V8

The evaluation tests are as follows:

1. SAR for frequency below 6GHz:

Rule Part	Band	Body SAR 1g	Limbs SAR 10g
§2.1093	GSM 850	Referencing the original test data plus spot-check on the worst-case of all bands	Referencing the original test data plus spot-check on the worst-case of all bands
	GSM 1900		
	WCDMA Band II		
	WCDMA Band IV		
	WCDMA Band V		
	LTE FDD 2		
	LTE FDD 4		

	LTE FDD 5		
	LTE FDD 7		
	LTE FDD 12		
	LTE FDD 13		
	LTE FDD 17		
	LTE FDD 25		
	LTE FDD 26		
	LTE TDD 38		
	LTE TDD 41		
	LTE FDD 66		
	LTE FDD 71		
	Wi-Fi (2.4GHz)		
	Wi-Fi (5GHz)		
	Bluetooth		

2. SAR, APD and IPD for frequency above 6GHz:

Rule Part	Band	Body SAR 1g and APD	Limbs SAR 10g and APD	IPD
§2.1093	Wi-Fi (6GHz)	Full re-test	Full re-test	Full re-test

3. Class Code: JBP

Rule Part	Test item	Data Referencing	Comments
15.107	AC Conducted Emissions	N	Full re-test
15.109	Radiated Emissions	N	Full re-test

4. Class Code: DSS

Rule Part	Test item	Data Referencing	Comments
15.247	Maximum Peak Output Power	Y	Plus spot-check on the worst-case
15.247	20 dB Bandwidth	Y	Plus spot-check on the worst-case
2.1049	99% Occupied Bandwidth	Y	Plus spot-check on the worst-case
15.247, 15.209, 15.205	Band Edges Compliance	Y	Plus spot-check on the worst-case
15.247	Time Of Occupancy (Dwell Time)	Y	Plus spot-check on the worst-case

15.247	Carrier Frequency Separation	Y	Plus spot-check on the worst-case
15.247	Number Of Hopping Channels	Y	Plus spot-check on the worst-case
15.247	Transmitter Spurious Emission-Conducted	Y	Plus spot-check on the worst-case
15.247, 15.209, 15.205	Transmitter Spurious Emission-Radiated	Y	Plus spot-check on the worst-case
15.207	AC Conducted Emissions	Y	Plus spot-check on the worst-case
15.247, 15.203	Antenna requirement	N/A	Same antenna to original

5. Class Code: DTS

Rule Part	Test item	Data Referencing	Comments
15.247	Maximum Output Power	Y	Plus spot-check on the worst-case
15.247	Peak Power Spectral Density	Y	Plus spot-check on the worst-case
15.247	6 dB Bandwidth	Y	Plus spot-check on the worst-case
2.1049	99% Occupied Bandwidth	Y	Plus spot-check on the worst-case
15.247, 15.209, 15.205	Band Edges Compliance	Y	Plus spot-check on the worst-case
15.247	Transmitter Spurious Emission-Conducted	Y	Plus spot-check on the worst-case
15.247, 15.209, 15.205	Transmitter Spurious Emission-Radiated	Y	Plus spot-check on the worst-case
15.207	AC Conducted Emissions	Y	Plus spot-check on the worst-case
15.247, 15.203	Antenna requirement	N/A	Same antenna to original

6. Class Code: NII

Rule Part	Test item	Data Referencing	Comments
15.407	Maximum Output Power	Y	Plus spot-check on the worst-case
KDB 789033 D02	Duty Cycle	Y	Plus spot-check on the worst-case
15.407	Power Spectral Density	Y	Plus spot-check on the worst-case
2.1049	99% Occupied Bandwidth	Y	Plus spot-check on the worst-case
15.407	26 dB Emission Bandwidth	Y	Plus spot-check on the worst-case
15.407	6 dB Bandwidth	Y	Plus spot-check on the worst-case
15.407	Band edge compliance	Y	Plus spot-check on the worst-case
15.407, 15.209, 15.205	Transmitter spurious emissions radiated	Y	Plus spot-check on the worst-case
15.407	Frequency Stability	Y	Plus spot-check on the worst-case
15.407	Transmit Power Control (TPC)	N/A	e.i.r.p. less than 500 mW
15.407	Dynamic Frequency Selection (DFS)	Y	Plus spot-check on the worst-case
15.207	AC Conducted Emissions	Y	Plus spot-check on the worst-case
15.407, 15.203	Antenna requirement	N/A	Same antenna to original

7. Class Code: 6XD

Rule Part	Test item	Data Referencing	Comments
15.407	Maximum Output Power (EIRP)	Y	Plus spot-check on the worst-case
KDB 789033 D02	Duty Cycle	Y	Plus spot-check on the worst-case
15.407	Power Spectral Density (EIRP)	Y	Plus spot-check on the worst-case
2.1049	99% Occupied Bandwidth	Y	Plus spot-check on the worst-case
15.407	26 dB Emission Bandwidth	Y	Plus spot-check on the worst-case
15.407	In-Band Emissions (Mask)	Y	Plus spot-check on the worst-case
15.407, 15.209, 15.205	Transmitter spurious emissions radiated	Y	Plus spot-check on the worst-case
15.407	Frequency Stability	Y	Plus spot-check on the worst-case
15.407	Contention Based Protocol	Y	Plus spot-check on the worst-case
15.207	AC Conducted Emissions	Y	Plus spot-check on the worst-case
15.407, 15.203	Antenna requirement	N/A	Same antenna to original

8. Class Code: PCT

Rule Part	Test item	Data Referencing	Comments
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22H, 24E, 27, 90S	Conducted RF OUTPUT POWER	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	ERP and EIRP	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	Peak-to-average power ratio	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	99% Occupied Bandwidth	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	26 dB Emission Bandwidth	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	Conducted spurious emissions	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	Band Edge	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	Radiated Spurious Emission	Y	Plus spot-check on the worst-case of all bands
22H, 24E, 27, 90S	Frequency Stability	Y	Plus spot-check on the worst-case of all bands

Please review, TCB whether to accept this test scheme, we will complete the final test according to the guide.

Thanks

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