RF EXPOSURE REPORT

FCC ID	:	**QYL8265BB**
Equipment	:	**Notebook**
Brand Name	:	**Getac**
Model Name	:	**B300**
Applicant	:	**Getac Technology Corporation. 5F., Building A, No. 209, Sec.1, Nangang Rd.,Nangang Dist., Taipei City 11568, Taiwan, R.O.C.**
Standard	:	**FCC 47 CFR Part 2 (2.1093)**

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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Jones Tsai

Approved by: Jones Tsai / Manager

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History of this test report

Report No.	Version	Description	Issued Date
FA372342-17	01	Initial issue of report	Aug. 01, 2018

1. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02

2. Equipment Under Test (EUT) Information

2.1 General Information

Product Feature & Specification	
Equipment Name	Notebook
Brand Name	Getac
Model Name	B300
FCC ID	QYL8265BB
Integrated WLAN Module	Brand Name: Intel Model Name: 8265NGW
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2472 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	802.11a/b/g/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

B300	SKU B
CPU	i7-8550U
RAM	16GB x 2
Storage	256GB
Media Bay	DVD +Smart Card
BT/WIFI	Support
GPS	Not Support

Reviewed by: Eric Huang
Report Producer: Wan Liu

3. Maximum RF average output power among production units

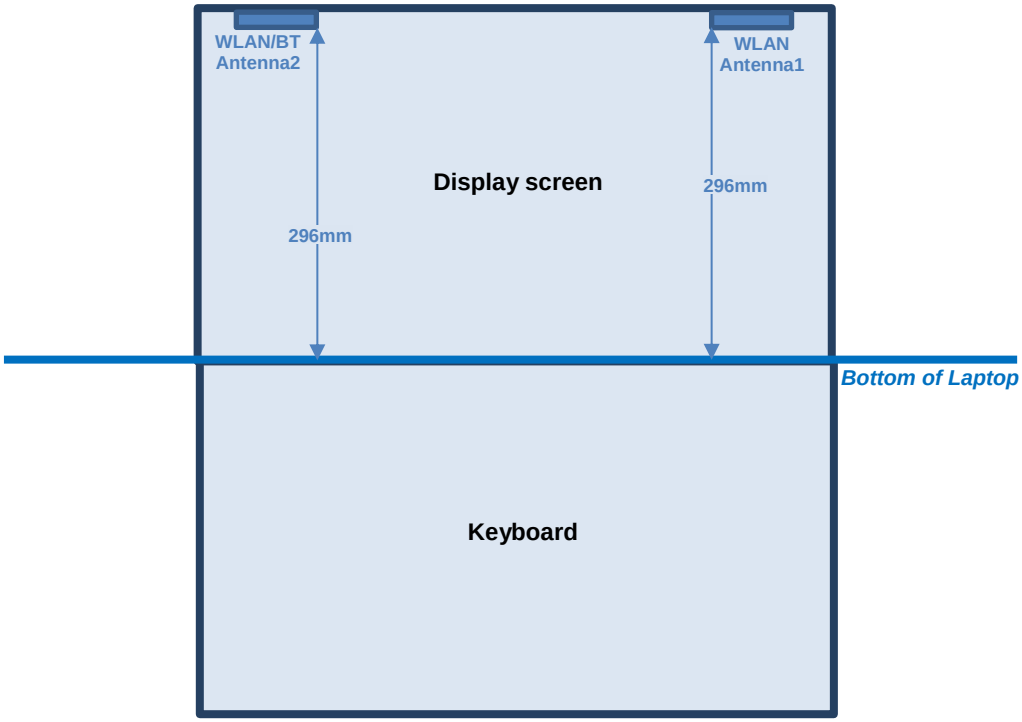
Band / Mode	Average Power (dBm)			
	BR / EDR			LE
	1M	2M	3M	GFSK
Bluetooth	10	6	5	5

Band / Channel / Frequency (MHz)			IEEE 802.11 Average Power (dBm)							
			Ant 1				Ant 2			
			11b	11g	HT20	HT40	11b	11g	HT20	HT40
2.4GHz WLAN (DTS)	Ch 1	2412	16	17	17		15	15	15	
	Ch 3	2422				18				15
	Ch 6	2437	15	18	18	18	15	15	15	15
	Ch 9	2452				18				15
	Ch 10	2457				16				12
	Ch 11	2462	15	18	18	3	15	15	15	-3
	Ch 12	2467	15	16	16		15	12.5	12	
	Ch 13	2472	12	4	3		9	-2	-3	

Band / Channel / Frequency (MHz)			IEEE 802.11 Average Power (dBm)			
			Ant 1 + 2			
			11b	11g	HT20	HT40
2.4GHz WLAN (DTS)	Ch 1	2412			17	
	Ch 3	2422				17
	Ch 6	2437			17	17
	Ch 9	2452				17
	Ch 10	2457				16
	Ch 11	2462			17	2
	Ch 12	2467			14	
	Ch 13	2472			2	

Band / Channel / Frequency (MHz)			IEEE 802.11 Average Power (dBm)					
			Ant 2					
			11a	HT20	HT40	VHT20	VHT40	VHT80
5.2GHz WLAN (U-NII-1)	Ch 36	5180	13.5	13.5		13.5		
	Ch 38	5190			13.5		13.5	
	Ch 40	5200	13.5	13.5		13.5		
	Ch 42	5210						13.5
	Ch 44	5220	13.5	13.5		13.5		
	Ch 46	5230			13.5		13.5	
	Ch 48	5240	13.5	13.5		13.5		
5.3GHz WLAN (U-NII-2A)	Ch 52	5260	13.5	13.5		13.5		
	Ch 54	5270			13.5		13.5	
	Ch 56	5280	13.5	13.5		13.5		
	Ch 58	5290						13.5
	Ch 60	5300	13.5	13.5		13.5		
	Ch 62	5310			13.5		13.5	
	Ch 64	5320	13.5	13.5		13.5		
5.5GHz WLAN (U-NII-2C)	Ch 100	5500	13.5	13.5		13.5		
	Ch 102	5510			13.5		13.5	
	Ch 106	5530						13.5
	Ch 110	5550			13.5		13.5	
	Ch 116	5580	13.5	13.5		13.5		
	Ch 122	5610						13.5
	Ch 124	5620	13.5	13.5		13.5		
	Ch 126	5630			13.5		13.5	
	Ch 132	5660	13.5	13.5		13.5		
	Ch 134	5670			13.5		13.5	
	Ch 138	5690						13.5
	Ch 140	5700	13.5	13.5		13.5		
	Ch 142	5710			13.5		13.5	
	Ch 144	5720	13.5	13.5		13.5		
5.8GHz WLAN (U-NII-3)	Ch 149	5745	13.5	13.5		13.5		
	Ch 151	5755			13.5		13.5	
	Ch 155	5775						13.5
	Ch 157	5785	13.5	13.5		13.5		
	Ch 159	5795			13.5		13.5	
	Ch 165	5825	13.5	13.5		13.5		

4. Antenna Location



5. SAR Test Exclusions Applied

General Note:

1. The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
2. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
3. Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
4. Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
5. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:
   [(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
   - f(GHz) is the RF channel transmit frequency in GHz
   - Power and distance are rounded to the nearest mW and mm before calculation
   - The result is rounded to one decimal place for comparison
6. Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
   a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
   b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz

Exposure Position	Wireless Interface	BT ANT 2	2.4GHz WLAN ANT 1	2.4GHz WLAN ANT 2	5GHz WLAN ANT 2
	Calculated Frequency	2480MHz	2462MHz	2462MHz	5825MHz
	Maximum power (dBm)	10	18	15	13.5
	Maximum rated power(mW)	10.0	63.0	32.0	22.0
Bottom of Laptop	Separation distance(mm)	296.0	296.0	296.0	296.0
	exclusion threshold	2555.0	2556.0	2556.0	2522.0
	Testing required?	**No**	**No**	**No**	**No**

6. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
1.	WLAN ANT1 + WLAN ANT2	Yes
2.	WLAN ANT1 + BT ANT2	Yes

General Note:

1. WLAN and Bluetooth share the same antenna 2, and cannot transmit simultaneously.
2. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment.
3. Per KDB 447498 D01v06 SAR test exclusion in section6, the standalone SAR testing is not required for this device, 0.4 W/kg is used for simultaneous transmission analysis when the test separation distance is > 50mm.

Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)
	WLAN Ant 1	WLAN/BT Ant 2	
	Estimated 1g SAR (W/kg)		
Body	0.4	0.4	0.8

Conclusion:

In the table above, the summed SAR is compliant with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.

7. References

[1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”

[2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992

[3] SPEAG DASY System Handbook

[4] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015

[5] FCC KDB 616217 D04 v01r02, “SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers”, Oct 2015

[6] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.