

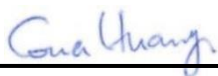
RF EXPOSURE EVALUATION REPORT

FCC ID : UZ7RM520NGL
Equipment : 5G Sub-6 GHz M.2 Module
Brand Name : ZEBRA
Model Name : RM520N-GL
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full



Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA3D2501	Rev. 01	Initial issue of report	Apr. 01, 2024
FA3D2501	Rev. 02	Update host information	Apr. 22, 2024



1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	5G Sub-6 GHz M.2 Module
Brand Name	ZEBRA
Model Name	RM520N-GL
FCC ID	UZ7RM520NGL
Wireless Technology and Frequency Range	WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3400 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3800 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz RFID : 902.75 MHz ~ 927.25 MHz
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/HE20/HE40/HE80 Bluetooth BR/EDR/LE RFID: ASK

Host Information	
Equipment Name	Industrial Fixed RFID Reader
Brand Name	ZEBRA
Model Name	FXR9011
FCC ID	UZ7FXR9001
HW Version	DV1
SW Version	0.4.18-90
MFD	26DEC23
EUT Stage	Identical Prototype

Reviewed by: Jason Wang

Report Producer: Paula Chen

WLAN Antenna information				
BT/WiFi 1 (Left) (Internal Antenna)	Ant. Type	PIFA		
	Model No.	A92777-30	Brand Name	Auden
	Peak Gain (dBi)			
	2400~2483.5MHz	4.02	5470~5725MHz	4.95
	5150~5250MHz	5.51	5725~5850MHz	4.94
WiFi 1 (Right) (Internal Antenna)	Ant. Type	PIFA		
	Model No.	A92774-30	Brand Name	Auden
	Peak Gain (dBi)			
	2400~2483.5MHz	5.42	5470~5725MHz	6.52
	5150~5250MHz	6.30	5725~5850MHz	5.95
BT/WiFi (Left/Right) (External Antenna 1)	Ant. Type	Dipole		
	Model No.	ST0228-30-502-A	Brand Name	Amphenol
	Peak Gain (dBi)			
	2400~2483.5MHz	2.98	5470~5725MHz	4.15
	5150~5250MHz	4.22	5725~5850MHz	4.15
BT/WiFi (Left/Right) (External Antenna 2)	Ant. Type	Dipole		
	Model No.	ZB511A-02-001-C	Brand Name	Amphenol
	Peak Gain (dBi)			
	2400~2483.5MHz	3.59	5470~5725MHz	3.70
	5150~5250MHz	2.60	5725~5850MHz	4.03
	5250~5350MHz	3.09		

RFID Antenna information				
RFID (Internal Antenna)	Ant. Type	Patch		
	Model No.	L000213-01	Brand Name	TE
	Peak Gain (dBi)			
	865-868MHz	6.5		
RFID (External Antenna)	Ant. Type	Patch		
	Model No.	AN650	Brand Name	ZEBRA
	Peak Gain (dBi)			
	865-868MHz	6		
RFID (External Antenna)	Ant. Type	Patch		
	Model No.	AN480	Brand Name	ZEBRA
	Peak Gain (dBi)			
	865-868MHz	6		
RFID (External Antenna)	Ant. Type	Patch		
	Model No.	SR5502	Brand Name	ZEBRA
	Peak Gain (dBi)			
	865-868MHz	2.0		
	902-928MHz	6.7		



Support Unit for Test				
Cable, 3-way USB Splitter	Brand Name	ZEBRA	Model Name	ADP-USB0010-M12
Cable, USB-C Host, 5ft.	Brand Name	ZEBRA	Model Name	CBL-USBCHST015-M12
Cable, USB-C Host, 15ft.	Brand Name	ZEBRA	Model Name	CBL-USBCHST035-M12
Cable, USB-C Client, 5ft.	Brand Name	ZEBRA	Model Name	CBL-USBCCLT015-M12
Cable, USB-C Client, 15ft.	Brand Name	ZEBRA	Model Name	CBL-USBCCLT035-M12
Cable, USB-A Client, 5ft.	Brand Name	ZEBRA	Model Name	CBL-USBACLT015-M12
Cable, USB-A Client, 15ft.	Brand Name	ZEBRA	Model Name	CBL-USBACLT035-M12
Cable, GPIO	Brand Name	ZEBRA	Model Name	CBL-GP0050-M12M12A
Cable, 12V (Cigarette Lighter) Power Adapter, 3.5 meter	Brand Name	ZEBRA	Model Name	CBL-PWRD035-M12CL
Cable, DC Power Cord (Flying Leads), 3.5m	Brand Name	ZEBRA	Model Name	CBL-PWRD035-M1200
Cable, DC Power Cord (Flying Leads), 10m	Brand Name	ZEBRA	Model Name	CBL-PWRD100-M1200
Cable, Power Supply Output Adapter, 3.5m	Brand Name	ZEBRA	Model Name	CBL-PWRD035-M12M12
Cable, Power Supply Output Adapter, 10m	Brand Name	ZEBRA	Model Name	CBL-PWRD100-M12M12
Cable, DC-DC Power Supply Input	Brand Name	ZEBRA	Model Name	CBL-PWRD150-M12M00
Cable, AC-DC Power Supply Input (Flying Leads)	Brand Name	ZEBRA	Model Name	CBL-PWRA150-M1200
Cable, AC-DC Power Supply Input (IEC plug)	Brand Name	ZEBRA	Model Name	CBL-PWRA035-M12IEC
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 68", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-3B4000680R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 180", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-3B4001800R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 240", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-3B4002400R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 360", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-3B4003600R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 68", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-1B4000680R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 180", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-1B4001800R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 240", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-1B4002400R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 360", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-1B4003600R
CHIMERA ETHERNET CABLE 5M	Brand Name	ZEBRA	Model Name	CBL-ENT00500-M1200
CHIMERA ETHERNET CABLE 15M	Brand Name	ZEBRA	Model Name	CBL-ENT01500-M1200
Outdoor AC-DC PSU	Brand Name	ZEBRA	Model Name	PWR-BGA24V90W0WW (Spec PD-007875-01)
Forklift DC-DC PSU	Brand Name	ZEBRA	Model Name	PWR-BGA24V90W1WW (Spec PD-007876-01)
Indoor AC-DC PSU	Brand Name	ZEBRA	Model Name	PWR-BGA24V78W3WW (Spec PD-007877-01)
PoE adaptor	Brand Name	ZEBRA	Model Name	PD-9001GR/AT/AC
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN480
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN650
External RFID Antenna	Brand Name	ZEBRA	Model Name	SR5502
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN510
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN520
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN610
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN620
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN720
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN440
External RFID Antenna	Brand Name	ZEBRA	Model Name	SP5504
BT/WLAN_External Antenna	Brand Name	Amphenol	Model Name	ST0228-30-502-A
BT/WLAN_External Antenna	Brand Name	Amphenol	Model Name	ZB511A-02-001-C
AN650 Antenna cable(5ft/1524mm)	Brand Name	ZEBRA	Model Name	CBLRD-1C4000600R
AN650 Antenna cable(20ft/6096mm)	Brand Name	ZEBRA	Model Name	CBLRD-1C4002400R
AN650 Antenna cable(15ft/4572mm)	Brand Name	ZEBRA	Model Name	CBLRD-1C4001800R
AN650 Antenna cable(30ft/9144mm)	Brand Name	ZEBRA	Model Name	CBLRD-1C4003600R
AN650 Antenna cable(10ft/3048mm)	Brand Name	ZEBRA	Model Name	CBLRD-1C4001200R
PWR-BGA24V78W3WW	Brand Name	ZEBRA	Model Name	PS000088A01

**2. Maximum RF average output power among production units****<WWAN>**

Band	Maximum Average Power (dBm)
WCDMA Band 2	25
WCDMA Band 4	25
WCDMA Band 5	25
LTE Band 2	25
LTE Band 4	25
LTE Band 5	25
LTE Band 7	25
LTE Band 12	25
LTE Band 13	25
LTE Band 14	25
LTE Band 17	25
LTE Band 25	25
LTE Band 26	25
LTE Band 30	21.5
LTE Band 38 PC3	25
LTE Band 38 PC2	27
LTE Band 41 PC3	25
LTE Band 41 PC2	27
LTE Band 42	25
LTE Band 43	25
LTE Band 48	20
LTE Band 66	25
LTE Band 71	25
NR Band n2	25
NR Band n5	25
NR Band n7	25
NR Band n12	25
NR Band n13	25
NR Band n14	25
NR Band n25	25
NR Band n26	25
NR Band n30	21.5
NR Band n38	28
NR Band n41	28
NR Band n48	20
NR Band n66	25
NR Band n70	25
NR Band n71	25
NR Band n77	28
NR Band n78	28

<WLAN 2.4GHz>

2.4GHz WLAN	Mod.	Data Rate	CH.	Freq. (MHz)	Ant1 tune up	Ant2 tune up
	11b	1Mbps	1	2412	9.50	10.00
	11b	1Mbps	6	2437	9.50	9.50
	11b	1Mbps	11	2462	10.00	9.50
	11g	6Mbps	1	2412	10.00	9.50
	11g	6Mbps	6	2437	10.00	10.00
	11g	6Mbps	11	2462	9.50	9.00
	HT20	MCS0	1	2412	8.00	8.00
	HT20	MCS0	6	2437	12.50	14.00
	HT20	MCS0	11	2462	7.50	7.00
	HT40	MCS0	3	2422	6.00	6.00
	HT40	MCS0	6	2437	10.00	10.50
	HT40	MCS0	9	2452	5.00	5.50
	VHT20	MCS0	1	2412	8.00	8.00
	VHT20	MCS0	6	2437	12.50	14.00
	VHT20	MCS0	11	2462	7.50	7.00
	VHT40	MCS0	3	2422	6.00	6.00
	VHT40	MCS0	6	2437	10.00	10.50
	VHT40	MCS0	9	2452	5.00	5.50

<WLAN 5GHz>

5GHz WLAN B1	Mod.	Data Rate	CH.	Freq. (MHz)	Ant1 tune up	Ant2 tune up
	11a	6Mbps	36	5180	15.00	15.00
	11a	6Mbps	44	5220	14.50	14.50
	11a	6Mbps	48	5240	15.00	14.50
	HT20	MCS0	36	5180	12.50	12.00
	HT20	MCS0	44	5220	12.50	12.00
	HT20	MCS0	48	5240	12.50	11.50
	HT40	MCS0	38	5190	12.50	12.00
	HT40	MCS0	46	5230	12.50	12.00
	VHT20	MCS0	36	5180	12.50	12.00
	VHT20	MCS0	44	5220	12.50	12.00
	VHT20	MCS0	48	5240	12.50	11.50
	VHT40	MCS0	38	5190	12.50	12.00
	VHT40	MCS0	46	5230	12.50	12.00
	VHT80	MCS0	42	5210	8.00	8.00

5GHz WLAN B2	Mod.	Data Rate	CH.	Freq. (MHz)	Ant1 tune up	Ant2 tune up
	11a	6Mbps	52	5260	14.50	15.00
	11a	6Mbps	60	5300	14.50	14.50
	11a	6Mbps	64	5320	15.00	14.50
	HT20	MCS0	52	5260	12.50	11.50
	HT20	MCS0	60	5300	13.00	12.00
	HT20	MCS0	64	5320	13.00	11.00
	HT40	MCS0	54	5270	12.50	11.50
	HT40	MCS0	62	5310	12.50	11.00
	VHT20	MCS0	52	5260	12.50	11.50
	VHT20	MCS0	60	5300	13.00	12.00
	VHT20	MCS0	64	5320	13.00	11.00
	VHT40	MCS0	54	5270	12.50	11.50
	VHT40	MCS0	62	5310	12.50	11.00
	VHT80	MCS0	58	5290	8.50	7.50

5GHz WLAN B3	Mod.	Data Rate	CH.	Freq. (MHz)	Ant1 tune up	Ant2 tune up
	11a	6Mbps	100	5500	15.00	15.00
	11a	6Mbps	116	5580	15.00	15.00
	11a	6Mbps	140	5700	15.00	15.00
	HT20	MCS0	100	5500	12.50	11.50
	HT20	MCS0	116	5580	12.00	12.00
	HT20	MCS0	140	5700	12.50	12.00
	HT40	MCS0	102	5510	13.00	11.50
	HT40	MCS0	110	5550	13.00	12.00
	HT40	MCS0	134	5670	12.00	12.00
	VHT20	MCS0	100	5500	12.50	11.50
	VHT20	MCS0	116	5580	12.00	12.00
	VHT20	MCS0	140	5700	12.50	12.00
	VHT40	MCS0	102	5510	13.00	11.50
	VHT40	MCS0	110	5550	13.00	12.00
	VHT40	MCS0	134	5670	12.00	12.00
	VHT80	MCS0	106	5530	9.00	7.50
	VHT80	MCS0	122	5610	8.50	8.00

5GHz WLAN B4	Mod.	Data Rate	CH.	Freq. (MHz)	Ant1 tune up	Ant2 tune up
	HE20	MCS0	149	5745	12.80	11.30
	HE20	MCS0	157	5785	12.90	10.90
	HE20	MCS0	165	5825	12.40	10.10
	HE40	MCS0	151	5755	12.90	10.50
	HE40	MCS0	159	5795	12.30	10.20
	HE80	MCS0	155	5775	8.30	6.40

<RFID>

Frequency(MHz)	Data Rate
	RFID
902.75 MHz	27.00
914.75 MHz	27.00
927.25 MHz	27.00

<Bluetooth>

Mode	Average power (dBm)				
	BR / EDR			LE	
	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps
Tune-up Limit	10.00	7.50	7.50	8.50	8.50

3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 22 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

4. Radio Frequency Radiation Exposure Evaluation

4.1. Collocated Power Density Calculation

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 22cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
WCDMA Band 2	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
WCDMA Band 4	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
WCDMA Band 5	0.90	25.00	25.9	0.39	389.05	0.064	0.549	0.117
LTE Band 2	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
LTE Band 4	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
LTE Band 5	0.90	25.00	25.9	0.39	389.05	0.064	0.549	0.117
LTE Band 7	1.90	25.00	26.9	0.49	489.78	0.081	1.000	0.081
LTE Band 12	0.90	25.00	25.9	0.39	389.05	0.064	0.466	0.137
LTE Band 13	0.90	25.00	25.9	0.39	389.05	0.064	0.518	0.124
LTE Band 14	0.90	25.00	25.9	0.39	389.05	0.064	0.525	0.122
LTE Band 17	0.90	25.00	25.9	0.39	389.05	0.064	0.469	0.136
LTE Band 25	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
LTE Band 26	0.90	25.00	25.9	0.39	389.05	0.064	0.543	0.118
LTE Band 30	1.90	21.50	23.4	0.22	218.78	0.036	1.000	0.036
LTE Band 38_PC3	1.90	25.00	26.9	0.49	489.78	0.081	1.000	0.081
LTE Band 38_PC2	1.90	27.00	28.9	0.78	776.25	0.128	1.000	0.128
LTE Band 41_PC3	1.90	25.00	26.9	0.49	489.78	0.081	1.000	0.081
LTE Band 41_PC2	1.90	27.00	28.9	0.78	776.25	0.128	1.000	0.128
LTE Band 42	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
LTE Band 43	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
LTE Band 48	2.00	20.00	22.0	0.16	158.49	0.026	1.000	0.026
LTE Band 66	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
LTE Band 71	-2.00	25.00	23.0	0.20	199.53	0.033	0.442	0.074
5G NR n2	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
5G NR n5	0.90	25.00	25.9	0.39	389.05	0.064	0.549	0.117
5G NR n7	1.90	25.00	26.9	0.49	489.78	0.081	1.000	0.081
5G NR n12	0.90	25.00	25.9	0.39	389.05	0.064	0.466	0.137
5G NR n13	0.90	25.00	25.9	0.39	389.05	0.064	0.518	0.124
5G NR n14	0.90	25.00	25.9	0.39	389.05	0.064	0.525	0.122
5G NR n25	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
5G NR n26	0.90	25.00	25.9	0.39	389.05	0.064	0.543	0.118
5G NR n30	1.90	21.50	23.4	0.22	218.78	0.036	1.000	0.036
5G NR n38	1.90	28.00	29.9	0.98	977.24	0.161	1.000	0.161
5G NR n41	1.90	28.00	29.9	0.98	977.24	0.161	1.000	0.161
5G NR n48	2.00	20.00	22.0	0.16	158.49	0.026	1.000	0.026
5G NR n66	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
5G NR n70	2.00	25.00	27.0	0.50	501.19	0.082	1.000	0.082
5G NR n71	-2.00	25.00	23.0	0.20	199.53	0.033	0.442	0.074
5G NR n77	2.00	28.00	30.0	1.00	1000.00	0.164	1.000	0.164
5G NR n78	2.00	28.00	30.0	1.00	1000.00	0.164	1.000	0.164
WLAN2.4GHz Band	5.42	14.00	19.42	0.09	87.50	0.014	1.000	0.014
WLAN5GHz Band	6.52	15.00	21.52	0.14	141.91	0.023	1.000	0.023
Bluetooth	4.02	10.00	14.02	0.03	25.23	0.004	1.000	0.004
RFID	7.20	27.00	34.20	2.63	2630.27	0.433	0.601	0.720



WWAN Power Density / Limit	RFID Power Density / Limit	WLAN Power Density / Limit	Bluetooth Power Density / Limit	Σ (Power Density / Limit) of WWAN+RFID+WLAN+Bluetooth
0.164	0.720	0.023	0.004	0.911

Note:

1. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WWAN + RFID + WLAN + Bluetooth.
2. Considering the WWAN module collocation with the WLAN, RFID and Bluetooth transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 4 collocated transmitters is compliant.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.