

Maximum Permissible Exposure Report

1. Product Information

FCC ID:	2AV9UZALPHA
Product name	IPTV Receiver
Test Model	Z ALPHA
Power supply	TEKA012-1201000UK Input: 100-240V~, 50/60Hz, 0.35A Max Output: 12Vdc, 1A
Operation frequency	2402MHz-2480MHz 2412MHz-2462MHz 5180MHz-5240MHz 5745MHz-5825MHz
Antenna Type	ANT0: Internal Antenna, 2.0dBi(Max.) ANT1: Internal Antenna, 2.0dBi(Max.)
Antenna Gain	2dBi(Max)
Hardware version	/
Software version	/
Channel Number	79 channels for Bluetooth V4.2 (BDR/EDR) 40 channels for Bluetooth V4.2 (BT LE) 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz) 4 channels for 20MHz bandwidth (5180-5240MHz) 2 channels for 40MHz bandwidth (5190~5230MHz) 1 channels for 80MHz bandwidth (5210MHz) 5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Channel Spacing	5MHz
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Device Type	Mobile Devices

2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3.1 Refer Evaluation Method

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: Mobile Devices

3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

F=frequency in MHz

*=Plane-wave equivalent power density

4. MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

5. Antenna Information

ES-D4 can only use antennas certificated as follows provided by manufacturer;

Antenna type and antenna number	Operate frequency band	Maximum antenna gain	Notes
Internal Antenna 0	2402MHz-2480MHz 2412MHz-2462MHz 5180MHz-5240MHz 5745MHz-5825MHz	2 dBi	BT/WiFi Antenna
Internal Antenna 1	2412MHz-2462MHz 5180MHz-5240MHz 5745MHz-5825MHz	2 dBi	WiFi Antenna

6. Conducted Power

[BT Max Conducted Power]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	4.692
	39	2441	5.036
	78	2480	4.483
$\pi/4$ DQPSK	0	2402	1.104
	39	2441	1.560
	78	2480	1.014
8DPSK	0	2402	1.325
	19	2440	1.797
	39	2480	1.237

[BLE Max Conducted Power]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
BT LE	0	2402	2.255
	19	2440	1.903
	39	2480	1.604

[2.4GWIFI Max Conducted Power]

Mode	Channel	Frequency (MHz)	ANT 0 Max Conducted Power(dBm)	ANT 1 Max Conducted Power(dBm)
11B	1	2412	11.97	12.10
	6	2437	11.89	12.29
	11	2462	12.06	12.83
11G	1	2412	13.13	12.23
	6	2437	13.08	12.66
	11	2462	13.23	13.24
11N20SISO	1	2412	12.75	12.40
	6	2437	12.7	12.33
	11	2462	13.25	12.70
11N40SISO	3	2422	13.63	12.76
	6	2437	13.90	12.78
	9	2452	13.70	12.64

[2.4GWIFI Max Conducted Power] ANT 0+ANT1

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11N20SISO	1	2412	15.59
	6	2437	15.53
	11	2462	15.99
11N40SISO	3	2422	14.77
	6	2437	14.44
	9	2452	14.70

[5.2GWIFI Max Conducted Power]

Mode	Channel	Frequency (MHz)	ANT 0 Max Conducted Power(dBm)	ANT 1 Max Conducted Power(dBm)
11A	36	5180	10.22	11.27
	40	5200	10.90	11.21
	48	5240	12.23	11.66
11N20 SISO	36	5180	11.80	11.33
	40	5200	11.69	11.61
	48	5240	12.19	11.50
11N40 SISO	38	5190	11.92	11.69
	46	5230	11.80	11.57
11AC20 SISO	36	5180	12.72	11.61
	40	5200	13.55	11.62
	48	5240	12.55	11.98
11AC40 SISO	38	5190	13.45	11.74
	46	5230	12.83	11.57
11AC80 SISO	42	5210	13.31	12.04

[5.2GWIFI Max Conducted Power] ANT 0+ANT1

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11N20 SISO	36	5180	14.58
	40	5200	14.66
	48	5240	14.87
11N40 SISO	38	5190	14.82
	46	5230	14.70
11AC20 SISO	36	5180	15.21
	40	5200	15.70
	48	5240	15.28
11AC40 SISO	38	5190	15.69
	46	5230	15.26
11AC80 SISO	42	5210	15.73

[5.8WIFI Max Conducted Power]

Mode	Channel	Frequency (MHz)	ANT 0 Max Conducted Power(dBm)	ANT 1 Max Conducted Power(dBm)
11A	149	5745	11.66	11.51
	157	5785	12.35	11.78
	165	5825	12.37	11.82
11N20 SISO	149	5745	11.52	11.45
	157	5785	12.27	11.66
	165	5825	12.30	11.64
11N40 SISO	151	5755	12.57	11.38
	159	5795	13.39	12.08
11AC20 SISO	149	5745	12.72	11.61
	157	5785	13.55	11.62
	165	5825	12.55	11.98
11AC40 SISO	151	5755	13.45	11.74
	159	5795	12.83	11.57
11AC80 SISO	155	5775	13.28	12.40

[5.8WIFI Max Conducted Power]ANT 0+ANT1

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11N20 SISO	149	5745	14.50
	157	5785	14.99
	165	5825	14.99
11N40 SISO	151	5755	15.03
	159	5795	15.79
11AC20 SISO	149	5745	15.21
	157	5785	15.70
	165	5825	15.28
11AC40 SISO	151	5755	15.69
	159	5795	15.26
11AC80 SISO	155	5775	15.87

7. Measurement Results

BT

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	5.0	5.0	5.0
Tolerance \pm (dB)	1.0	1.0	1.0
π /4DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	1.0	1.0	1.0
Tolerance \pm (dB)	1.0	1.0	1.0
8DPSK (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	1.0	1.0	1.0
Tolerance \pm (dB)	1.0	1.0	1.0

BLE

BT LE (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	2.0	2.0	2.0
Tolerance \pm (dB)	1.0	1.0	1.0

2.4GWIFI

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	12.0	12.0	12.0
Tolerance \pm (dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	13.0	13.0	13.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N20SISO (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	15.0	15.0	15.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N40SISO (Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	15.0	15.0	15.0
Tolerance \pm (dB)	1.0	1.0	1.0

5.2GWIFI

11A (Peak)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N20 SISO (Peak)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.0	15.0	15.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N40 SISO (Peak)			
Channel	Channel 38	Channel 46	
Target (dBm)	15.0	15.0	
Tolerance \pm (dB)	1.0	1.0	
11AC20 SISO (Peak)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.0	15.0	15.0
Tolerance \pm (dB)	1.0	1.0	1.0
11AC40 SISO (Peak)			
Channel	Channe38	Channel 46	
Target (dBm)	15.0	15.0	
Tolerance \pm (dB)	1.0	1.0	
11AC80 SISO (Peak)			
Channel	Channel 42		
Target (dBm)	15.0		
Tolerance \pm (dB)	1.0		

5.8GWIFI

11A (Peak)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.0	12.0	12.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N20 SISO (Peak)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	15.0	15.0	15.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N40 SISO (Peak)			
Channel	Channel 151	Channel 159	
Target (dBm)	15.5	15.5	
Tolerance \pm (dB)	1.0	1.0	
11AC20 SISO (Peak)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	15.5	15.5	15.5
Tolerance \pm (dB)	1.0	1.0	1.0
11AC40 SISO (Peak)			
Channel	Channel 151	Channel 159	
Target (dBm)	15.5	15.5	
Tolerance \pm (dB)	1.0	1.0	
11AC80 SISO (Peak)			
Channel	Channel 155		
Target (dBm)	15.5		
Tolerance \pm (dB)	1.0		

8. Evaluation Results

8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r=20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

BT

Band/Mode	f (GHz)	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
		dBm	mW				
GFSK	2.441	6.0	3.9811	2.0	1.5849	0.0002	1.0000
$\pi/4$ DQPSK	2.441	2.0	1.5849	2.0	1.5849	0.0001	1.0000
8DPSK	2.441	2.0	1.5849	2.0	1.5849	0.0001	1.0000

BLE

Band/Mode	f (GHz)	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
		dBm	mW				
BT LE	2.402	3.0	1.9953	2.0	1.5849	0.0001	1.0000

2.4GWIFI

Band/Mode	f (GHz)	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
		dBm	mW				
IEEE 802.11b	2.462	13.0	19.9526	2.0	1.5849	0.0008	1.0000
IEEE 802.11g	2.462	14.0	25.1189	2.0	1.5849	0.0010	1.0000
IEEE 802.11n HT20	2.462	16.0	39.8107	5.01	3.1696	0.0251	1.0000
IEEE 802.11n HT40	2.437	16.0	39.8107	5.01	3.1696	0.0251	1.0000

5.2GWIFI

Band/Mode	f (GHz)	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
		dBm	mW				
11A	5.240	12.0	15.8489	2.0	1.5849	0.0006	1.0000
11N20 SISO	5.240	16.0	39.8107	5.01	3.1696	0.0016	1.0000
11N40 SISO	5.190	16.0	39.8107	5.01	3.1696	0.0016	1.0000
11AC20 SISO	5.200	16.0	39.8107	5.01	3.1696	0.0095	1.0000
11AC40 SISO	5.190	16.0	39.8107	5.01	3.1696	0.0174	1.0000
11AC80 SISO	5.210	16.0	39.8107	5.01	3.1696	0.0254	1.0000

5.8GWIFI

Band/Mode	f (GHz)	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
		dBm	mW				
11A	5.825	13.0	19.9526	2.0	1.5849	0.0008	1.0000
11N20 SISO	5.825	16.0	39.8107	5.01	3.1696	0.0016	1.0000
11N40 SISO	5.795	16.5	44.6684	5.01	3.1696	0.0018	1.0000
11AC20 SISO	5.785	16.5	44.6684	5.01	3.1696	0.0107	1.0000
11AC40 SISO	5.755	16.5	44.6684	5.01	3.1696	0.0196	1.0000
11AC80 SISO	5.775	16.5	44.6684	5.01	3.1696	0.0285	1.0000

8.2 Simultaneous Transmission MPE

The sample support one BT&2.4G WLAN&5.2G WLAN&5.8G WLAN and another one 2.4G WLAN&5.2G WLAN&5.8G WLAN transmit antenna, so need consider simultaneous transmission;

Simultaneous transmission MPE

According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;

$\sum \sum$ of MPE ratios ≤ 1.0

BT+2.4G WLAN			
Mode	\sum MPE ratios	Limit	Results
GFSK BT LE+ IEEE 802.11b	0.0009	1.000	Pass
GFSK BT LE+ IEEE 802.11g	0.0011	1.000	Pass
GFSK BT LE+ IEEE 802.11n20	0.0011	1.000	Pass
GFSK BT LE+ IEEE 802.11n40	0.0061	1.000	Pass
GFSK + IEEE 802.11b	0.0010	1.000	Pass
GFSK + IEEE 802.11g	0.0012	1.000	Pass
GFSK + IEEE 802.11n20	0.0012	1.000	Pass
GFSK + IEEE 802.11n40	0.0062	1.000	Pass
$\pi/4$ DQPSK + IEEE 802.11b	0.0009	1.000	Pass
$\pi/4$ DQPSK + IEEE 802.11g	0.0011	1.000	Pass
$\pi/4$ DQPSK + IEEE 802.11n20	0.0011	1.000	Pass
$\pi/4$ DQPSK + IEEE 802.11n40	0.0061	1.000	Pass
8DPSK + IEEE 802.11b	0.0009	1.000	Pass
8DPSK + IEEE 802.11g	0.0011	1.000	Pass
8DPSK + IEEE 802.11n20	0.0011	1.000	Pass
8DPSK + IEEE 802.11n40	0.0061	1.000	Pass

BT+5.2G WLAN			
Mode	\sum MPE ratios	Limit	Results
GFSK BT LE + 11A	0.0007	1.000	Pass
GFSK BT LE + 11N20	0.0017	1.000	Pass
GFSK BT LE + 11N40	0.0017	1.000	Pass
GFSK BT LE + 11AC20	0.0096	1.000	Pass
GFSK BT LE + 11AC40	0.0175	1.000	Pass
GFSK BT LE + 11AC80	0.0255	1.000	Pass
GFSK + 11A	0.0008	1.000	Pass
GFSK + 11N20	0.0018	1.000	Pass
GFSK + 11N40	0.0018	1.000	Pass
GFSK + 11AC20	0.0097	1.000	Pass
GFSK + 11AC40	0.0176	1.000	Pass
GFSK + 11AC80	0.0256	1.000	Pass
$\pi/4$ DQPSK + 11A	0.0007	1.000	Pass
$\pi/4$ DQPSK + 11N20	0.0017	1.000	Pass
$\pi/4$ DQPSK + 11N40	0.0017	1.000	Pass
$\pi/4$ DQPSK + 11AC20	0.0096	1.000	Pass
$\pi/4$ DQPSK + 11AC40	0.0175	1.000	Pass
$\pi/4$ DQPSK + 11AC80	0.0255	1.000	Pass
8DPSK + 11A	0.0007	1.000	Pass
8DPSK + 11N20	0.0017	1.000	Pass
8DPSK + 11N40	0.0017	1.000	Pass
8DPSK + 11AC20	0.0096	1.000	Pass
8DPSK + 11AC40	0.0175	1.000	Pass
8DPSK + 11AC80	0.0255	1.000	Pass

BT+5.8G WLAN			
Mode	\sum MPE ratios	Limit	Results
GFSK BT LE + 11A	0.0009	1.000	Pass
GFSK BT LE + 11N20	0.0017	1.000	Pass
GFSK BT LE + 11N40	0.0019	1.000	Pass
GFSK BT LE + 11AC20	0.0108	1.000	Pass
GFSK BT LE + 11AC40	0.0197	1.000	Pass
GFSK BT LE + 11AC80	0.0286	1.000	Pass
GFSK + 11A	0.0010	1.000	Pass
GFSK + 11N20	0.0018	1.000	Pass
GFSK + 11N40	0.0020	1.000	Pass
GFSK + 11AC20	0.0109	1.000	Pass
GFSK + 11AC40	0.0198	1.000	Pass
GFSK + 11AC80	0.0287	1.000	Pass
π /4DQPSK + 11A	0.0009	1.000	Pass
π /4DQPSK + 11N20	0.0017	1.000	Pass
π /4DQPSK + 11N40	0.0019	1.000	Pass
π /4DQPSK + 11AC20	0.0108	1.000	Pass
π /4DQPSK + 11AC40	0.0197	1.000	Pass
π /4DQPSK + 11AC80	0.0286	1.000	Pass
8DPSK + 11A	0.0009	1.000	Pass
8DPSK + 11N20	0.0017	1.000	Pass
8DPSK + 11N40	0.0019	1.000	Pass
8DPSK + 11AC20	0.0108	1.000	Pass
8DPSK + 11AC40	0.0197	1.000	Pass
8DPSK + 11AC80	0.0286	1.000	Pass

2.4G WLAN + 5.2G WLAN			
Mode	\sum MPE ratios	Limit	Results
IEEE 802.11b + 11A	0.0014	1.000	Pass
IEEE 802.11b + 11N20	0.0024	1.000	Pass
IEEE 802.11b + 11N40	0.0024	1.000	Pass
IEEE 802.11b + 11AC20	0.0103	1.000	Pass
IEEE 802.11b + 11AC40	0.0182	1.000	Pass
IEEE 802.11b + 11AC80	0.0262	1.000	Pass
IEEE 802.11g + 11A	0.0016	1.000	Pass
IEEE 802.11g + 11N20	0.0026	1.000	Pass
IEEE 802.11g + 11N40	0.0026	1.000	Pass
IEEE 802.11g + 11AC20	0.0105	1.000	Pass
IEEE 802.11g + 11AC40	0.0184	1.000	Pass
IEEE 802.11g + 11AC80	0.0264	1.000	Pass
IEEE 802.11n20 + 11A	0.0016	1.000	Pass
IEEE 802.11n20 + 11N20	0.0026	1.000	Pass
IEEE 802.11n20 + 11N40	0.0026	1.000	Pass
IEEE 802.11n20 + 11AC20	0.0105	1.000	Pass
IEEE 802.11n20 + 11AC40	0.0184	1.000	Pass
IEEE 802.11n20 + 11AC80	0.0264	1.000	Pass
IEEE 802.11n40 + 11A	0.0066	1.000	Pass
IEEE 802.11n40 + 11N20	0.0076	1.000	Pass
IEEE 802.11n40 + 11N40	0.0076	1.000	Pass
IEEE 802.11n40 + 11AC20	0.0155	1.000	Pass
IEEE 802.11n40 + 11AC40	0.0234	1.000	Pass
IEEE 802.11n40 + 11AC80	0.0314	1.000	Pass

2.4G WLAN + 5.8G WLAN			
Mode	\sum MPE ratios	Limit	Results
IEEE 802.11b + 11A	0.0016	1.000	Pass
IEEE 802.11b + 11N20	0.0024	1.000	Pass
IEEE 802.11b + 11N40	0.0026	1.000	Pass
IEEE 802.11b + 11AC20	0.0115	1.000	Pass
IEEE 802.11b + 11AC40	0.0204	1.000	Pass
IEEE 802.11b + 11AC80	0.0293	1.000	Pass
IEEE 802.11g + 11A	0.0018	1.000	Pass
IEEE 802.11g + 11N20	0.0026	1.000	Pass
IEEE 802.11g + 11N40	0.0028	1.000	Pass
IEEE 802.11g + 11AC20	0.0117	1.000	Pass
IEEE 802.11g + 11AC40	0.0206	1.000	Pass
IEEE 802.11g + 11AC80	0.0295	1.000	Pass
IEEE 802.11n20 + 11A	0.0018	1.000	Pass
IEEE 802.11n20 + 11N20	0.0026	1.000	Pass
IEEE 802.11n20 + 11N40	0.0028	1.000	Pass
IEEE 802.11n20 + 11AC20	0.0117	1.000	Pass
IEEE 802.11n20 + 11AC40	0.0206	1.000	Pass
IEEE 802.11n20 + 11AC80	0.0295	1.000	Pass
IEEE 802.11n40 + 11A	0.0068	1.000	Pass
IEEE 802.11n40 + 11N20	0.0076	1.000	Pass
IEEE 802.11n40 + 11N40	0.0078	1.000	Pass
IEEE 802.11n40 + 11AC20	0.0167	1.000	Pass
IEEE 802.11n40 + 11AC40	0.0256	1.000	Pass
IEEE 802.11n40 + 11AC80	0.0345	1.000	Pass

Remark:

1. Output power including turn-up tolerance;
2. Output power is burst average power;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer;
4. MPE values = $PG/4\pi R^2$

9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

-----THE END OF REPORT-----