FCC Co-Location Test Report

FCC ID	:	**2AX7S-ATC63E**
Equipment	:	**Tablet PC**
Model No.	:	**ATC63E**
Brand Name	:	**AIMobile**
Applicant	:	**AIMobile Co., Ltd.**
Address	:	**6F,No. 166,Section 4, Chengde Road, Shilin District, Taipei City, 11167 Taiwan**
Standard	:	**47 CFR FCC Part 15.247** **47 CFR FCC Part 15.407**
Received Date	:	**Jan. 07, 2022**
Tested Date	:	**May 16, 2022**

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:	**Approved by:**
Along Chen / Assistant Manager	**Gary Chang / Manager**

Table of Contents

Release Record

Report No.	Version	Description	Issued Date
FR210701CO	Rev. 01	Initial issue	Aug. 17, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.247(d) 15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 72.00MHz 38.96 (Margin -1.04dB) - QP	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

The EUT had six SKU options (SKU1, SKU2, SKU3, SKU1-2, SKU2-2 and SKU3-2). Six options were assessed and SKU2-2 was found to be worst case and was selected for the final testing.

1.1.1 SKU Details

The following SUKs are provided to this EUT.

SKU No.	SKU1	SKU2	SKU3	SKU1-2	SKU2-2	SKU3-2
SKU Description	Intel i3-1115G4E	Intel i5-1145G7E	Intel Celeron 6305E	Intel i3-1115G4E	Intel i5-1145G7E	Intel Celeron 6305E
	13.3"					
M/B	1310A3325001	1310A3325002	1310A3325003	1310A3325001	1310A3325002	1310A3325003
I/O Board	1310A3324701			1310A3388801		
	Audio Codec ALC256M			Audio Codec ALC888S		
Memory (LPDDR4)	Samsung 16GB			Samsung 16GB		
	M471A2K43EB1-CWE			M471A2K43EB1-CWE		
Storage (SSD)	Phison 1TB			Phison 1TB		
	PM81024GPKTCB5BINV-E13T4A			PM81024GPKTCB5BINV-E13T4A		
WLAN Module	Intel			Intel		
	AX210.NGWGII.NV			AX210.NGWGII.NV		
Note: The above SUK, SKU **SKU2-2** was selected as a representative one for the final test and only its data was recorded in this report.						

1.1.2 Specification of the Equipment under Test (EUT)

WLAN	
Operating Frequency	802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac/ax: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz, 5745 ~ 5825 MHz
Modulation Type	802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac/ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)
BT	
Operating Frequency	2402 MHz ~ 2480 MHz
Modulaton Type	Bluetooth 5.0 LE: GFSK Bluetooth BR(1Mbps): GFSK Bluetooth EDR (2Mbps): π/4-DQPSK Bluetooth EDR (3Mbps): 8-DPSK

1.1.3 Antenna Details

WiFi

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
					2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	AWAN	AYF6Y-100185	PIFA	UFL	2.55	2.62	2.62	2.82	2.82
2	AWAN	AYF6Y-100184	PIFA	UFL	2.68	2.32	2.54	2.76	2.83

BT

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)
1	AWAN	AYF6Y-100184	PIFA	UFL	2.68

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	19 Vdc from adapter 10.8 Vdc from battery

1.2 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	May 16, 2022				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.3 Test Standards

47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
ANSI C63.10-2013

1.4 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.5 Deviation from Test Standard and Measurement Procedure

None

1.6 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	**Uncertainty**
Unwanted Emission ≤ 1GHz	±3.41 dB
Unwanted Emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	03CH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode
Unwanted Emissions	Mode 1: 2.4G 11B CH6 1TX (AYF6Y-100185 antenna) + BT EDR GFSK CH39 Mode 2: 5G 11a 1TX (AYF6Y-100184 antenna) CH40 + BT EDR GFSK CH39 Mode 3: 5G 11a 1TX (AYF6Y-100185 antenna) CH157 + BT EDR GFSK CH39 Mode 4: 5G 11ax20 2TX CH40(AYF6Y-100184 antenna + AYF6Y-100185 antenna) + BT EDR GFSK CH39
Conducted Emissions	Mode 1: 5G 11a 1TX (AYF6Y-100184 antenna) 11a CH40 + BT EDR GFSK CH39 Mode 2: 5G 11ax20 2TX (AYF6Y-100184 antenna + AYF6Y-100185 antenna) CH40 + BT EDR GFSK CH39
NOTE: The selected channel is the maximum power channel of Wi-Fi + BT mode.	

3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

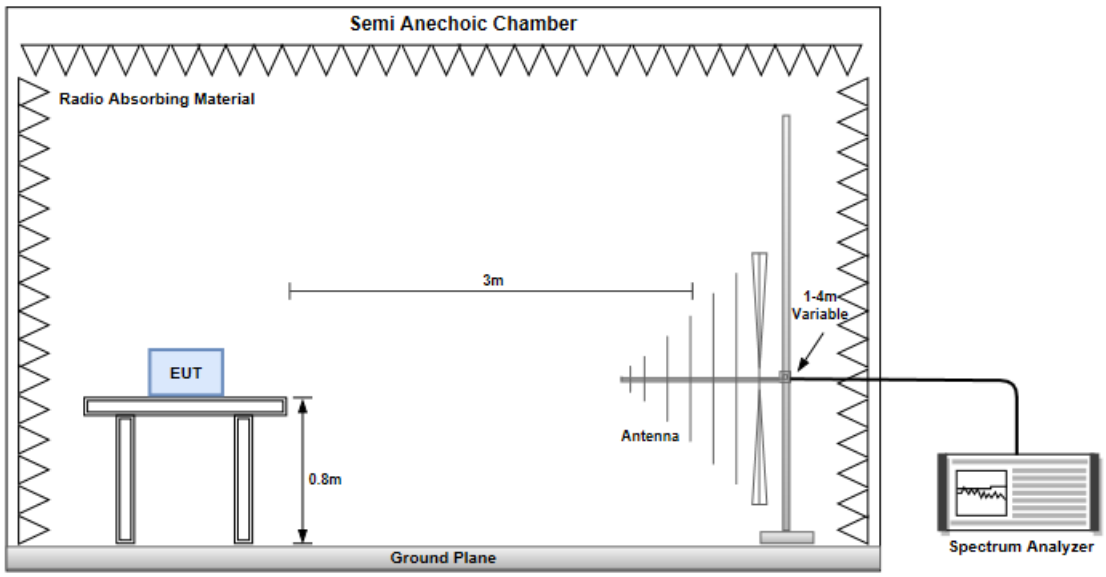
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

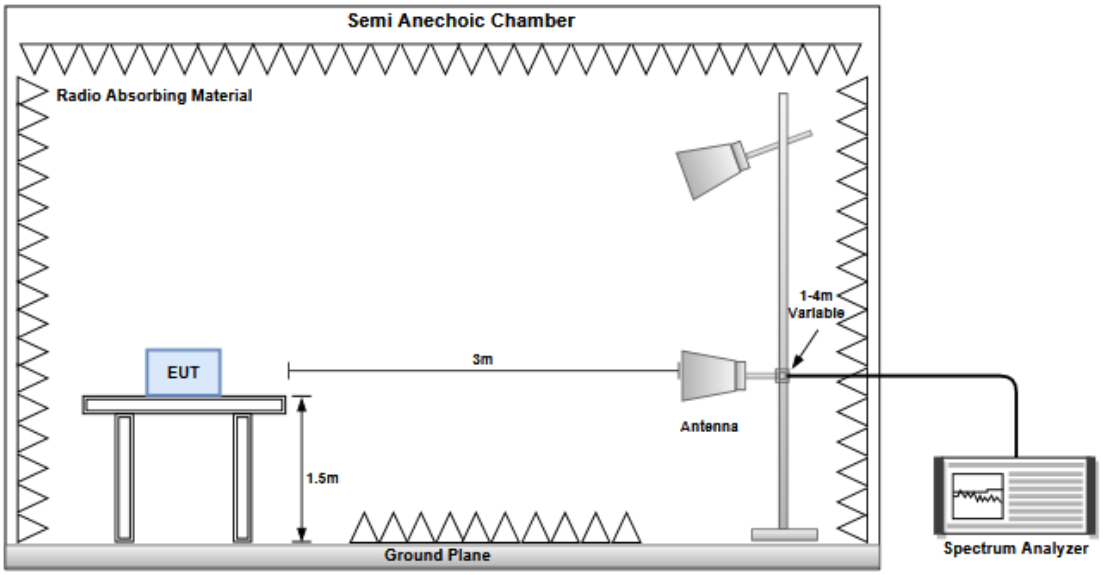
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.1.3 Test Setup

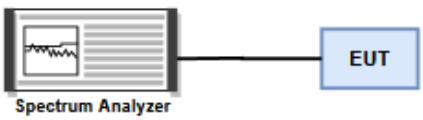
Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



Transmitter Conducted Unwanted Emissions (30MHz~40GHz)



3.1.4 Test Results

Refer to Appendix A.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.) No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

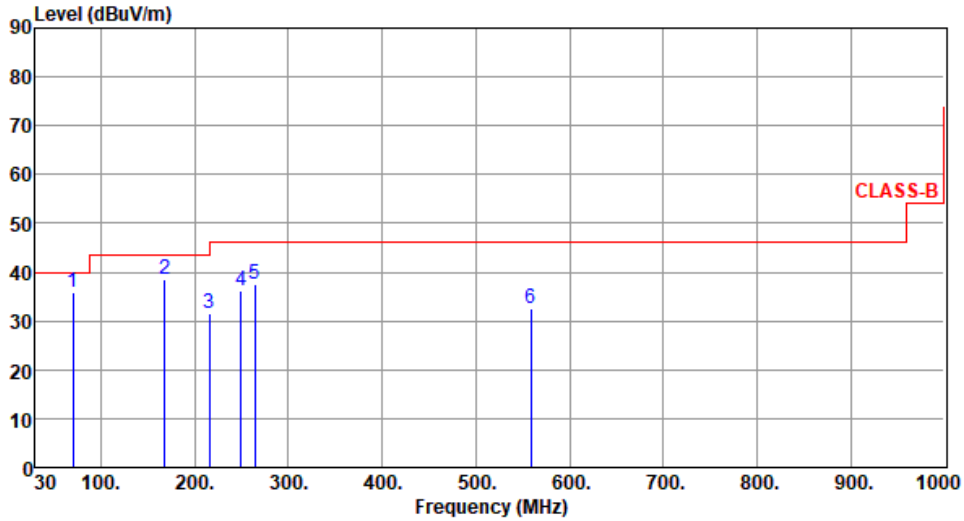
Tel: 886-3-271-8666
Fax: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

==END==

Unwanted Emissions (Below 1GHz)

Test Mode	Mode 1: 2.4G 11b CH6 1TX (AYF6Y-100185 antenna) + BT EDR GFSK CH39
Polarization	Horizontal

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

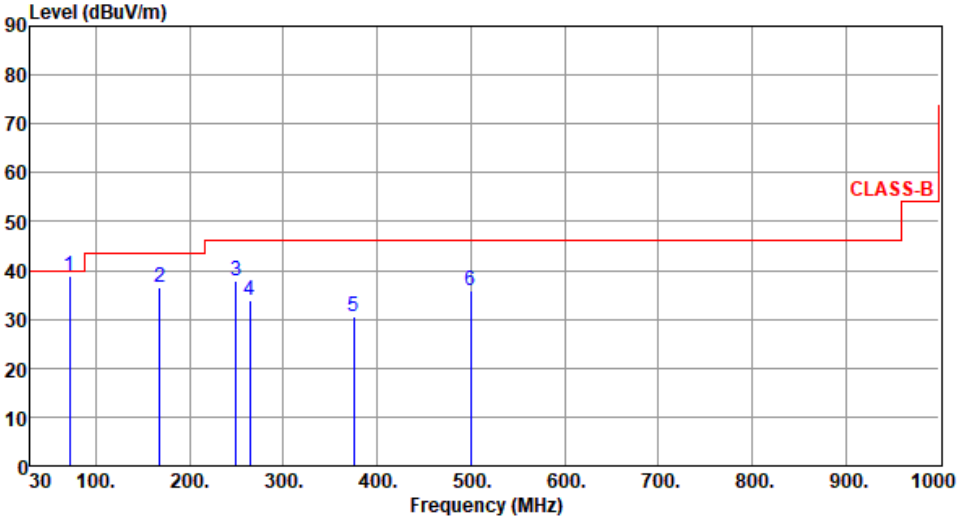


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	70.56	36.02	40.00	-3.98	47.01	-10.99	Peak	---	---
2	167.74	38.45	43.50	-5.05	47.41	-8.96	Peak	---	---
3	215.59	31.65	43.50	-11.85	43.59	-11.94	Peak	---	---
4	249.39	36.25	46.00	-9.75	46.32	-10.07	Peak	---	---
5	264.12	37.45	46.00	-8.55	46.92	-9.47	Peak	---	---
6	558.65	32.51	46.00	-13.49	34.69	-2.18	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test Mode	Mode 1: 2.4G 11b CH6 1TX (AYF6Y-100185 antenna) + BT EDR GFSK CH39
Polarization	Vertical

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

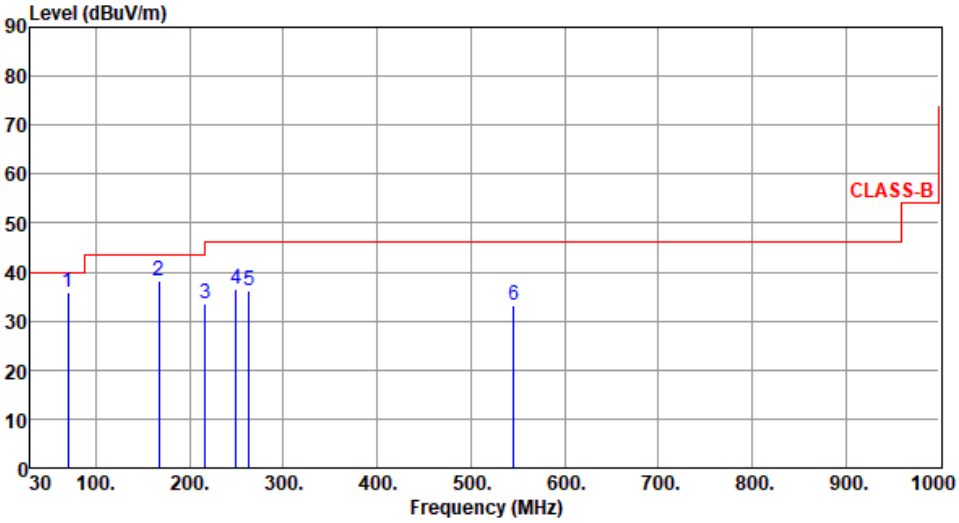


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	71.84	38.92	40.00	-1.08	50.12	-11.20	QP	118	264
2	167.91	36.58	43.50	-6.92	45.54	-8.96	Peak	---	---
3	249.22	37.85	46.00	-8.15	47.93	-10.08	Peak	---	---
4	264.25	33.91	46.00	-12.09	43.38	-9.47	Peak	---	---
5	375.15	30.58	46.00	-15.42	36.91	-6.33	Peak	---	---
6	500.25	35.90	46.00	-10.10	39.19	-3.29	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test Mode	Mode 2: 5G 11a 1TX (AYF6Y-100184 antenna) CH40 + BT EDR GFSK CH39
Polarization	Horizontal

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

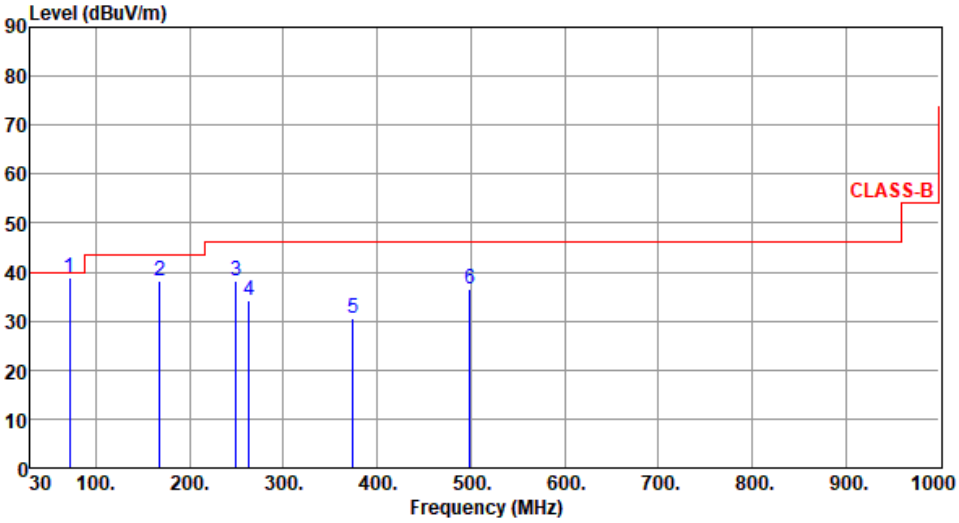


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	70.56	35.81	40.00	-4.19	46.80	-10.99	Peak	---	---
2	167.54	38.21	43.50	-5.29	47.17	-8.96	Peak	---	---
3	216.33	33.58	46.00	-12.42	45.52	-11.94	Peak	---	---
4	249.36	36.45	46.00	-9.55	46.52	-10.07	Peak	---	---
5	263.58	36.15	46.00	-9.85	45.67	-9.52	Peak	---	---
6	545.59	33.28	46.00	-12.72	35.93	-2.65	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test Mode	Mode 2: 5G 11a 1TX (AYF6Y-100184 antenna) CH40 + BT EDR GFSK CH39
Polarization	Vertical

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

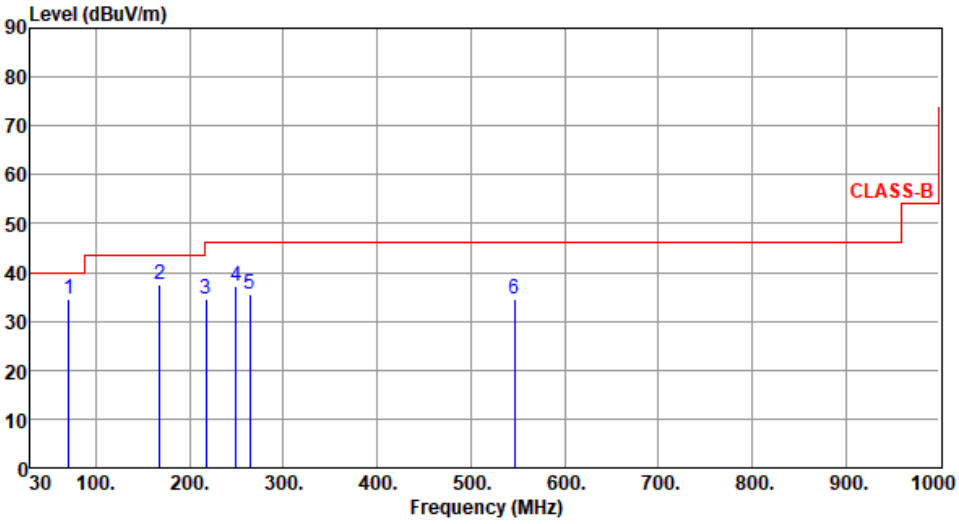


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	71.86	38.93	40.00	-1.07	50.13	-11.20	QP	116	263
2	167.83	38.21	43.50	-5.29	47.17	-8.96	Peak	---	---
3	249.58	38.21	46.00	-7.79	48.28	-10.07	Peak	---	---
4	263.54	34.12	46.00	-11.88	43.64	-9.52	Peak	---	---
5	374.58	30.58	46.00	-15.42	36.92	-6.34	Peak	---	---
6	499.21	36.45	46.00	-9.55	39.76	-3.31	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test Mode	Mode 3: 5G 11a 1TX (AYF6Y-100185 antenna) CH157 + BT EDR GFSK CH39
Polarization	Horizontal

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

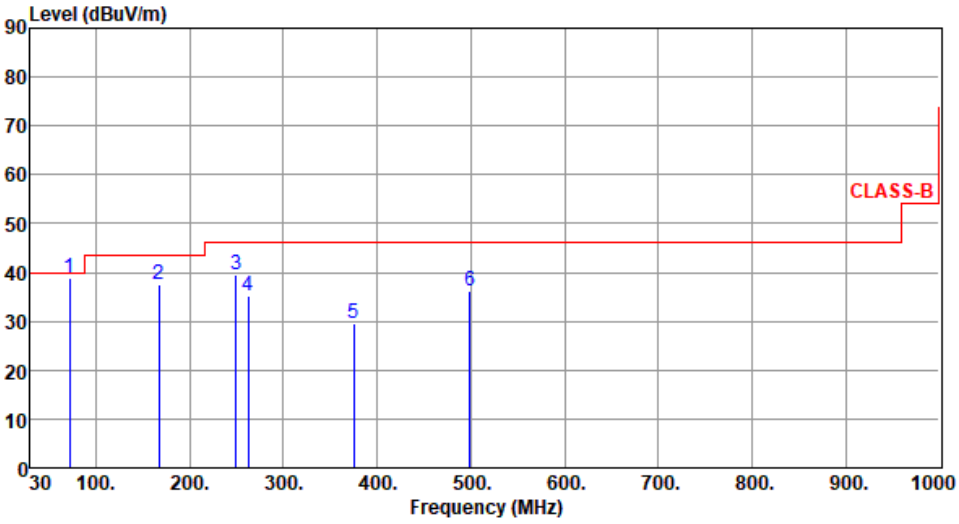


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	70.89	34.68	40.00	-5.32	45.70	-11.02	Peak	---	---
2	167.86	37.59	43.50	-5.91	46.55	-8.96	Peak	---	---
3	217.26	34.59	46.00	-11.41	46.54	-11.95	Peak	---	---
4	249.64	37.15	46.00	-8.85	47.22	-10.07	Peak	---	---
5	264.15	35.64	46.00	-10.36	45.11	-9.47	Peak	---	---
6	546.86	34.53	46.00	-11.47	37.13	-2.60	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test Mode	Mode 3: 5G 11a 1TX (AYF6Y-100185 antenna) CH157 + BT EDR GFSK CH39
Polarization	Vertical

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

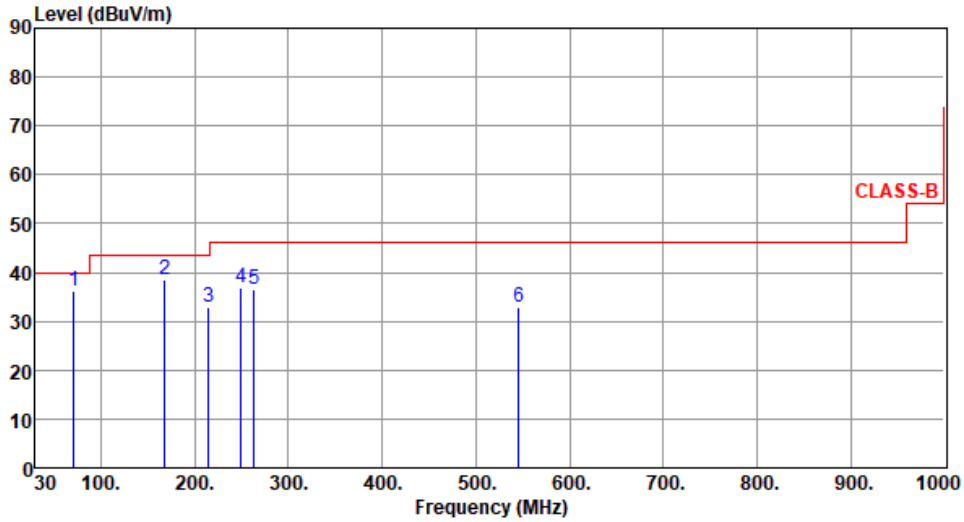


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	71.64	38.88	40.00	-1.12	50.03	-11.15	QP	119	265
2	167.54	37.48	43.50	-6.02	46.44	-8.96	Peak	---	---
3	249.68	39.64	46.00	-6.36	49.71	-10.07	Peak	---	---
4	262.49	35.31	46.00	-10.69	44.89	-9.58	Peak	---	---
5	375.15	29.57	46.00	-16.43	35.90	-6.33	Peak	---	---
6	499.31	36.15	46.00	-9.85	39.45	-3.30	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test Mode	Mode 4: 5G 11ax20 2TX CH40 (AYF6Y-100184 antenna + AYF6Y-100185 antenna) + BT EDR GFSK CH39
Polarization	Horizontal

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

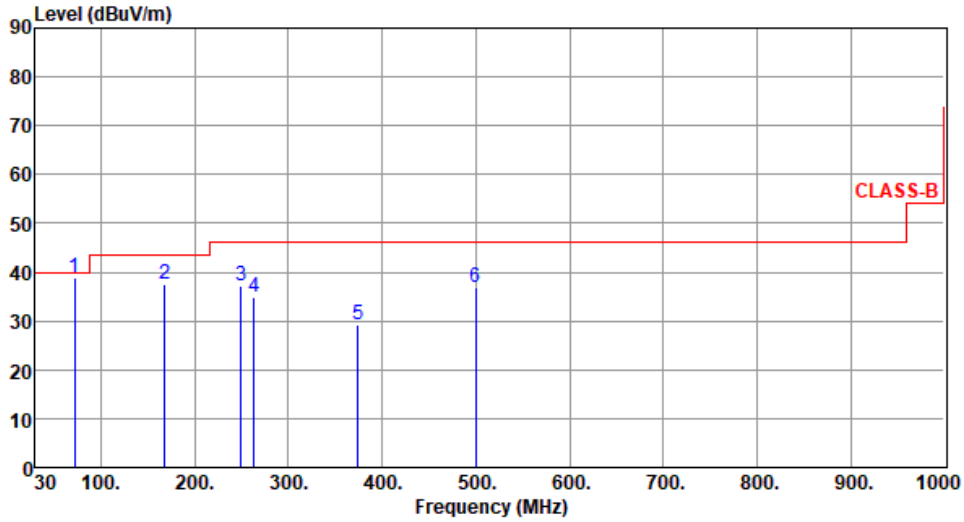


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	70.74	36.17	40.00	-3.83	47.17	-11.00	Peak	---	---
2	167.74	38.67	43.50	-4.83	47.63	-8.96	Peak	---	---
3	215.27	32.93	43.50	-10.57	44.87	-11.94	Peak	---	---
4	249.22	36.71	46.00	-9.29	46.79	-10.08	Peak	---	---
5	263.77	36.66	46.00	-9.34	46.16	-9.50	Peak	---	---
6	546.04	32.74	46.00	-13.26	35.37	-2.63	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test Mode	Mode 4: 5G 11ax20 2TX CH40 (AYF6Y-100184 antenna + AYF6Y-100185 antenna) + BT EDR GFSK CH39
Polarization	Vertical

Test By :Roger Lu Temperature(℃):23 Humidity(%):65



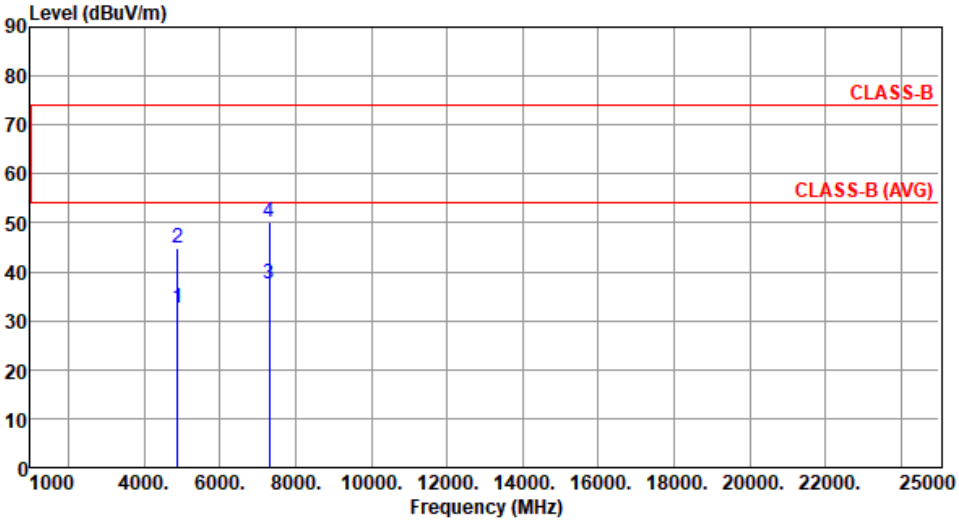
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	72.00	38.96	40.00	-1.04	50.19	-11.23	QP	121	266
2	167.74	37.48	43.50	-6.02	46.44	-8.96	Peak	---	---
3	249.22	37.07	46.00	-8.93	47.15	-10.08	Peak	---	---
4	263.77	34.76	46.00	-11.24	44.26	-9.50	Peak	---	---
5	374.35	29.38	46.00	-16.62	35.72	-6.34	Peak	---	---
6	499.48	36.73	46.00	-9.27	40.03	-3.30	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Unwanted Emissions (Above 1GHz)

Test Mode	Mode 1: 2.4G 11b CH6 1TX (AYF6Y-100185 antenna) + BT EDR GFSK CH39
Polarization	Horizontal

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

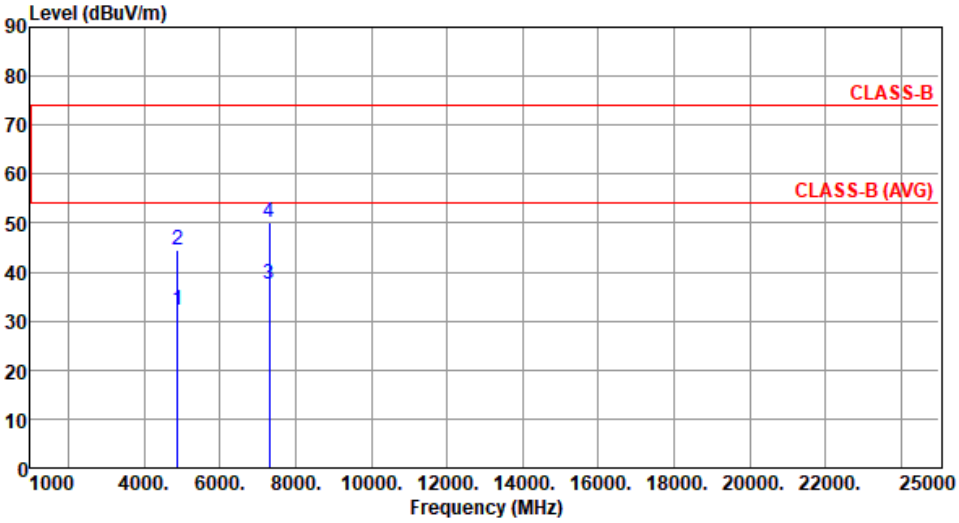


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	4878.00	32.68	54.00	-21.32	28.56	4.12	Average	100	40
2	4878.00	44.71	74.00	-29.29	40.59	4.12	Peak	100	40
3	7315.00	37.55	54.00	-16.45	28.27	9.28	Average	100	60
4	7315.00	50.17	74.00	-23.83	40.89	9.28	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test Mode	Mode 1: 2.4G 11b CH6 1TX (AYF6Y-100185 antenna) + BT EDR GFSK CH39
Polarization	Vertical

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

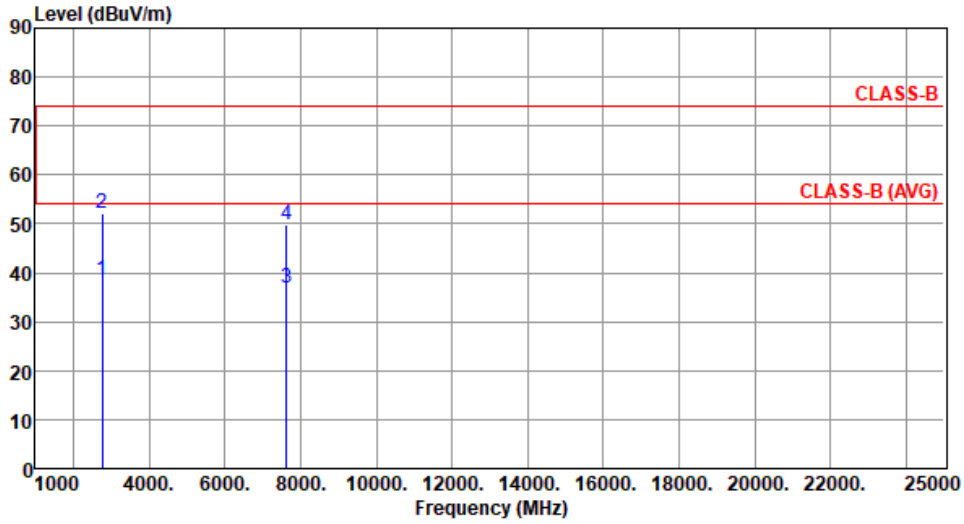


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	4878.00	32.36	54.00	-21.64	28.24	4.12	Average	100	30
2	4878.00	44.54	74.00	-29.46	40.42	4.12	Peak	100	30
3	7315.00	37.39	54.00	-16.61	28.11	9.28	Average	100	90
4	7315.00	50.03	74.00	-23.97	40.75	9.28	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test Mode	Mode 2: 5G 11a 1TX (AYF6Y-100184 antenna) CH40 + BT EDR GFSK CH39
Polarization	Horizontal

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

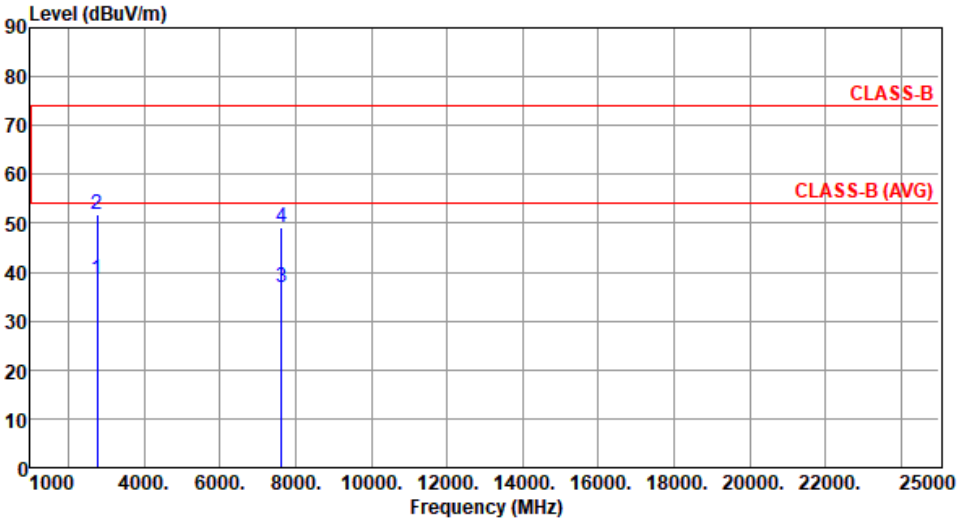


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2759.00	38.63	54.00	-15.37	40.15	-1.52	Average	100	60
2	2759.00	52.04	74.00	-21.96	53.56	-1.52	Peak	100	60
3	7641.00	37.02	54.00	-16.98	28.25	8.77	Average	100	40
4	7641.00	49.66	74.00	-24.34	40.89	8.77	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test Mode	Mode 2: 5G 11a 1TX (AYF6Y-100184 antenna) CH40 + BT EDR GFSK CH39
Polarization	Vertical

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

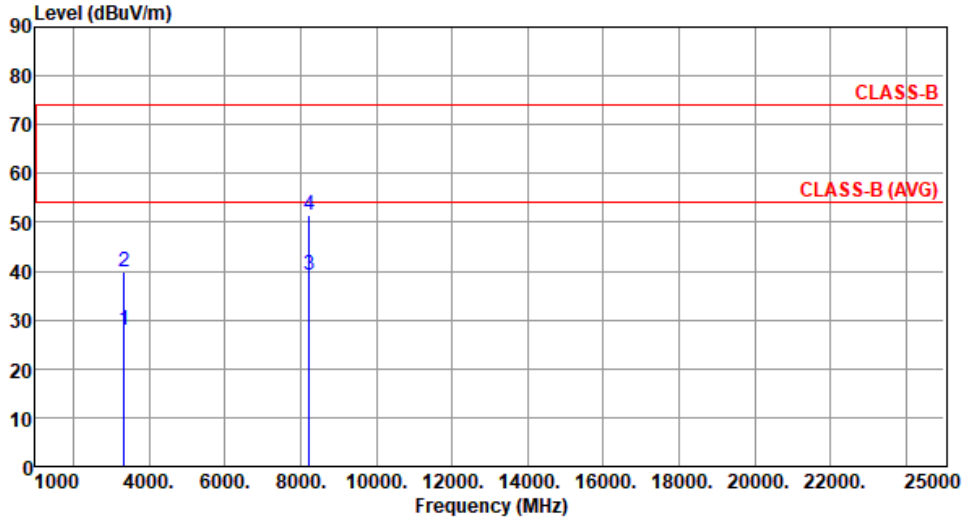


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2759.00	38.50	54.00	-15.50	40.02	-1.52	Average	100	90
2	2759.00	51.76	74.00	-22.24	53.28	-1.52	Peak	100	90
3	7641.00	36.92	54.00	-17.08	28.15	8.77	Average	100	20
4	7641.00	49.26	74.00	-24.74	40.49	8.77	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test Mode	Mode 3: 5G 11a 1TX (AYF6Y-100185 antenna) CH157 + BT EDR GFSK CH39
Polarization	Horizontal

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

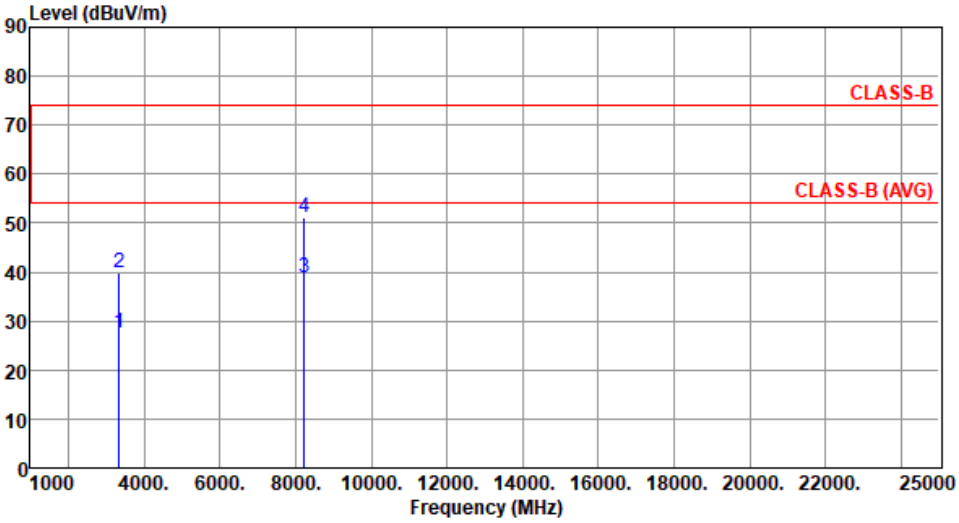


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3344.00	27.74	54.00	-26.26	28.58	-0.84	Average	100	30
2	3344.00	39.90	74.00	-34.10	40.74	-0.84	Peak	100	30
3	8226.00	39.26	54.00	-14.74	29.45	9.81	Average	100	50
4	8226.00	51.60	74.00	-22.40	41.79	9.81	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test Mode	Mode 3: 5G 11a 1TX (AYF6Y-100185 antenna) CH157 + BT EDR GFSK CH39
Polarization	Vertical

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

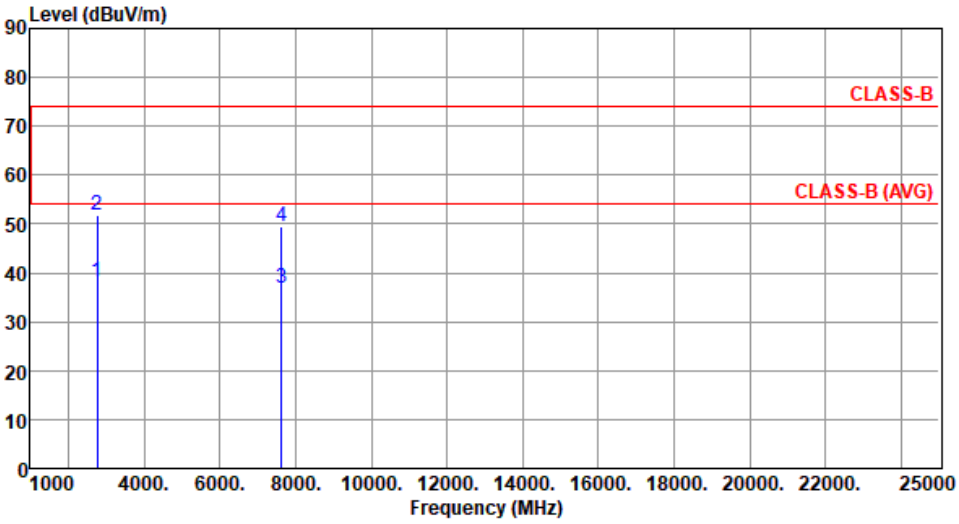


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3344.00	27.64	54.00	-26.36	28.48	-0.84	Average	100	60
2	3344.00	39.82	74.00	-34.18	40.66	-0.84	Peak	100	60
3	8226.00	39.02	54.00	-14.98	29.21	9.81	Average	100	40
4	8226.00	51.19	74.00	-22.81	41.38	9.81	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test Mode	Mode 4: 5G 11ax20 2TX CH40 (AYF6Y-100184 antenna + AYF6Y-100185 antenna) + BT EDR GFSK CH39
Polarization	Horizontal

Test By :Roger Lu Temperature(℃):23 Humidity(%):65

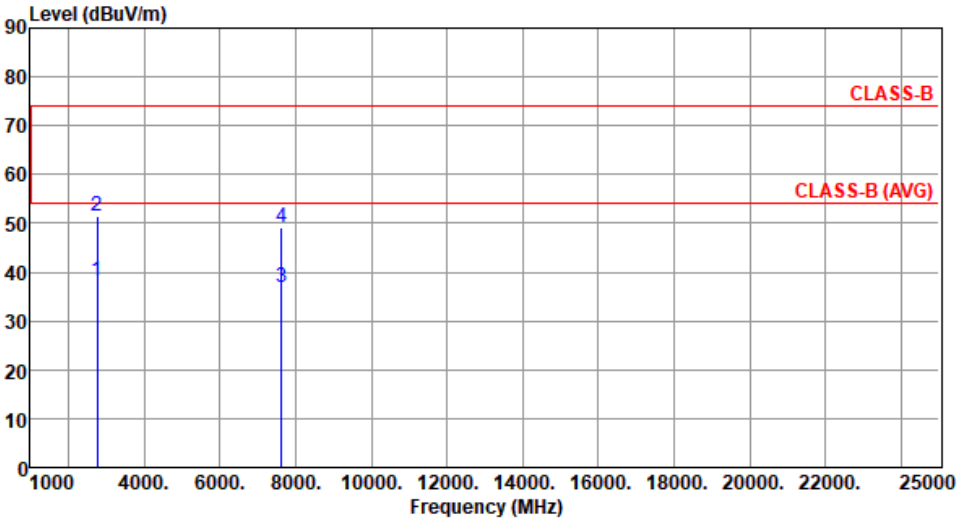


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2759.00	38.26	54.00	-15.74	39.78	-1.52	Average	100	50
2	2759.00	51.93	74.00	-22.07	53.45	-1.52	Peak	100	50
3	7641.00	36.90	54.00	-17.10	28.13	8.77	Average	100	20
4	7641.00	49.42	74.00	-24.58	40.65	8.77	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test Mode	Mode 4: 5G 11ax20 2TX CH40 (AYF6Y-100184 antenna + AYF6Y-100185 antenna) + BT EDR GFSK CH39
Polarization	Vertical

Test By :Roger Lu Temperature(℃):23 Humidity(%):65



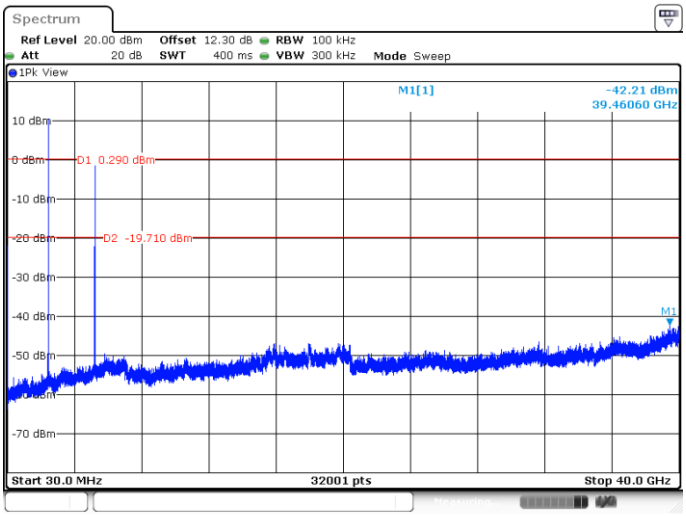
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2759.00	38.13	54.00	-15.87	39.65	-1.52	Average	100	80
2	2759.00	51.63	74.00	-22.37	53.15	-1.52	Peak	100	80
3	7641.00	36.80	54.00	-17.20	28.03	8.77	Average	100	30
4	7641.00	49.02	74.00	-24.98	40.25	8.77	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Conducted Emissions (30MHz~40GHz)

Ambient Condition	23°C / 65%	**Tested By**	Roger Lu

Conducted Emission Plots
(5G 11a 1TX (AYF6Y-100184 antenna) 11a CH40 + BT EDR GFSK CH39)



Conducted Emission Plots
(5G 11ax20 2TX CH40 (AYF6Y-100184 antenna + AYF6Y-100185 antenna) + BT EDR GFSK CH39)