
FCC Test Report

Report No.: AGC08090211103FE03

FCC ID : 2AEVN0754W1124G
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : RC AIRCRAFT
BRAND NAME : N/A
MODEL NAME : Please see page 5
APPLICANT : GUANGDONG ATTOP TECHNOLOGY CO., LTD.
DATE OF ISSUE : Nov. 23, 2021
STANDARD(S) : FCC Part 15 Rules
TEST PROCEDURE(S) :
REPORT VERSION : V1.0



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 23, 2021	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	GUANGDONG ATTOP TECHNOLOGY CO., LTD.
Address	Linghai Industry Zone, Laimei Road, Chenghai District, Shantou, Guangdong, China
Manufacturer	GUANGDONG ATTOP TECHNOLOGY CO., LTD.
Address	Linghai Industry Zone, Laimei Road, Chenghai District, Shantou, Guangdong, China
Factory	GUANGDONG ATTOP TECHNOLOGY CO., LTD.
Address	Linghai Industry Zone, Laimei Road, Chenghai District, Shantou, Guangdong, China
Product Designation	RC AIRCRAFT
Brand Name	N/A
Test Model	W11
Series Model	Please see page 6
Difference Description	The packing is different, but everything else is the same.
Date of test	Nov. 09, 2021 to Nov. 23, 2021
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Prepared By

Bibo Zhang
(Project Engineer)

Nov. 23, 2021

Reviewed By

Calvin Liu
(Reviewer)

Nov. 23, 2021

Approved By

Max Zhang
(Authorized Officer)

Nov. 23, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2407MHz-2478MHz
Maximum field strength	92.21dBuV/m(Average)@3m
Modulation	GFSK
Number of channels	33
Antenna Gain	0dBi
Antenna Designation	Internal antenna
Hardware Version	V1.0
Software Version	V1.0
Power Supply	DC 3.7V by battery

Series Model	X-PACK PRO, X-PACK GPS, X-PACK NANO, W, W NANO, W MINI, W PRO, W PRO E, W PRO ES, W PRO S, W PRO S2, W PRO MINI, W PRO NANO, W8, W8 PRO, W9, W9 PRO, W20, W30, W50, W60, W70, W80, PRO 56, PRO 66, PRO 76, PRO 86, PRO96, AO10, AO11, AO12, AO13, AO15, AO16, AO17, AO18, AO19, AO30, AO31, AO32, AO33, AO35, AO36, AO37, AO38, AO39, G01, G02, G03, G05, G06, G07, G08, G09, G10, G20, G30, G50, G60, G70, G80, G90
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2.2. TABLE OF CARRIER FREQUENCY

Frequency Band	Channel Number	Frequency(MHZ)	Channel Number	Frequency(MHZ)
2400~2483.5MHZ	1	2407	18	2463
	2	2414	19	2464
	3	2428	20	2465
	4	2436	21	2466
	5	2443	22	2467
	6	2451	23	2468
	7	2452	24	2469
	8	2453	25	2470
	9	2454	26	2471
	10	2455	27	2472
	11	2456	28	2473
	12	2457	29	2474
	13	2458	30	2475
	14	2459	31	2476
	15	2460	32	2477
	16	2461	33	2478
	17	2462		

2.3. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $U_c = \pm 3.1 \text{ dB}$
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 4.0 \text{ dB}$
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8 \text{ dB}$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	TX mode at 2407MHz
2	TX mode at 2465MHz
3	TX mode at 2478MHz

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. Set the EUT into the individual test modes by pressing the EUT buttons.
4. For battery operated equipment, the equipment tests are performed using a new battery.

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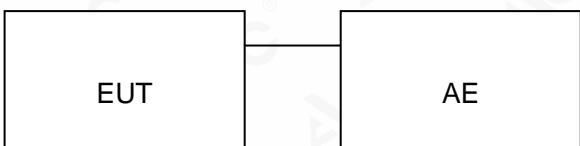
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	RC AIRCRAFT	W11	2AEVN0754W1124G	EUT
2	Adapter	ZL-PCB0100020502000		AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2021	May 14, 2022
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 09, 2020	Oct. 08, 2022
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. RADIATED EMISSION**7.1 TEST LIMIT****Standard FCC15.249**

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		µ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

Remark: (1) Emission level dB µ V = 20 log Emission level µ V/m
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use minimum resolution bandwidth of 1 MHz. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz RBW 2.4MHz/ VBW 8MHz for Peak, RBW 2.4MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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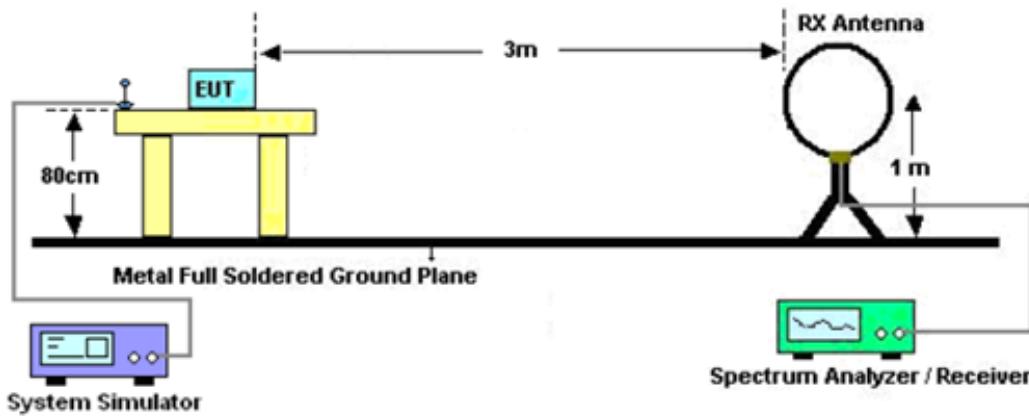
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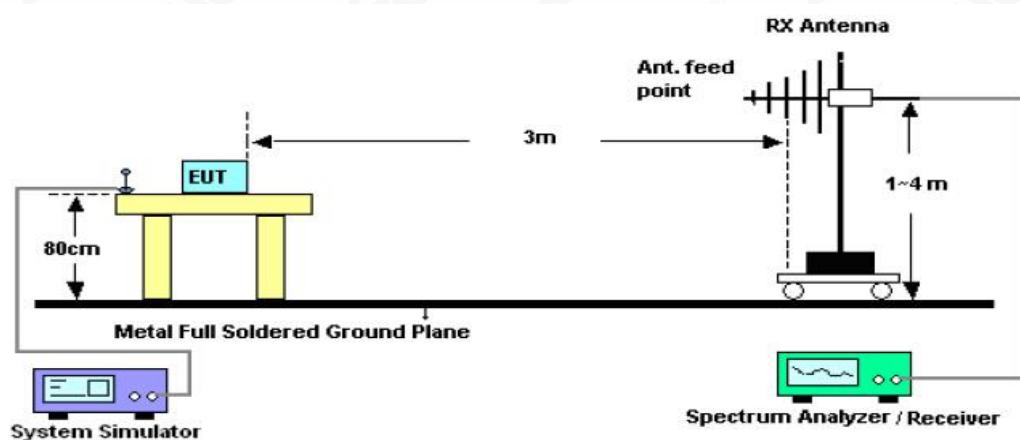


7.3. TEST SETUP

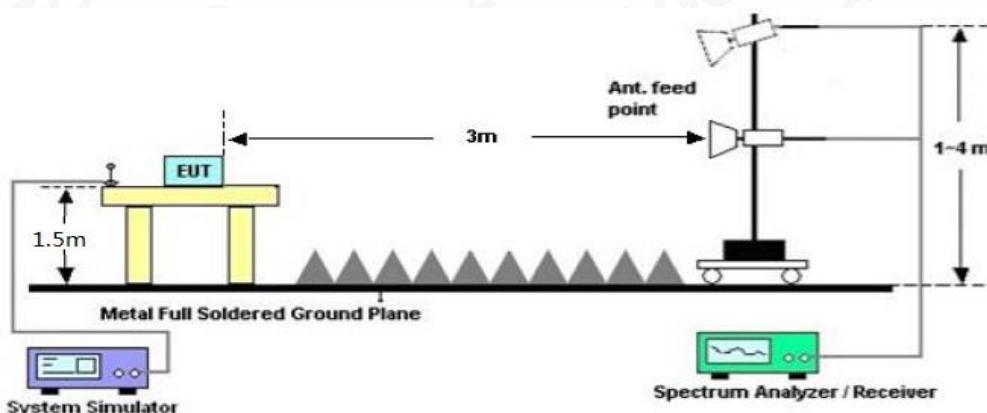
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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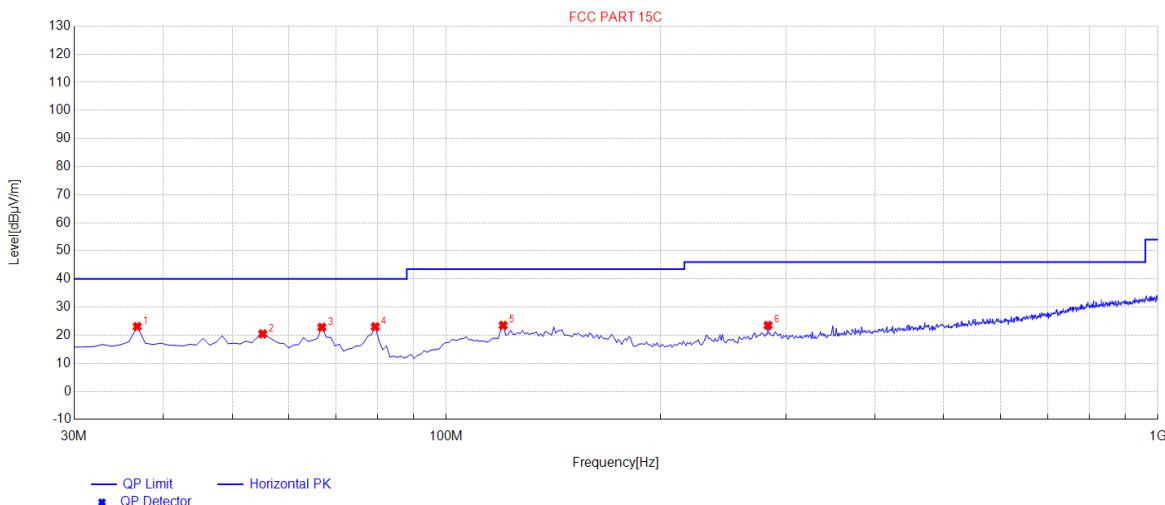
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

RADIATED EMISSION 30MHz- 1GHZ

EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Horizontal



NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.79	23.07	10.73	40.00	16.93	100	357	Horizontal
2	55.22	20.46	11.27	40.00	19.54	100	162	Horizontal
3	66.86	22.81	9.76	40.00	17.19	100	337	Horizontal
4	79.47	23.00	7.26	40.00	17.00	100	215	Horizontal
5	120.21	23.49	13.48	43.50	20.01	100	209	Horizontal
6	283.17	23.49	16.07	46.00	22.51	100	31	Horizontal

RESULT: PASS

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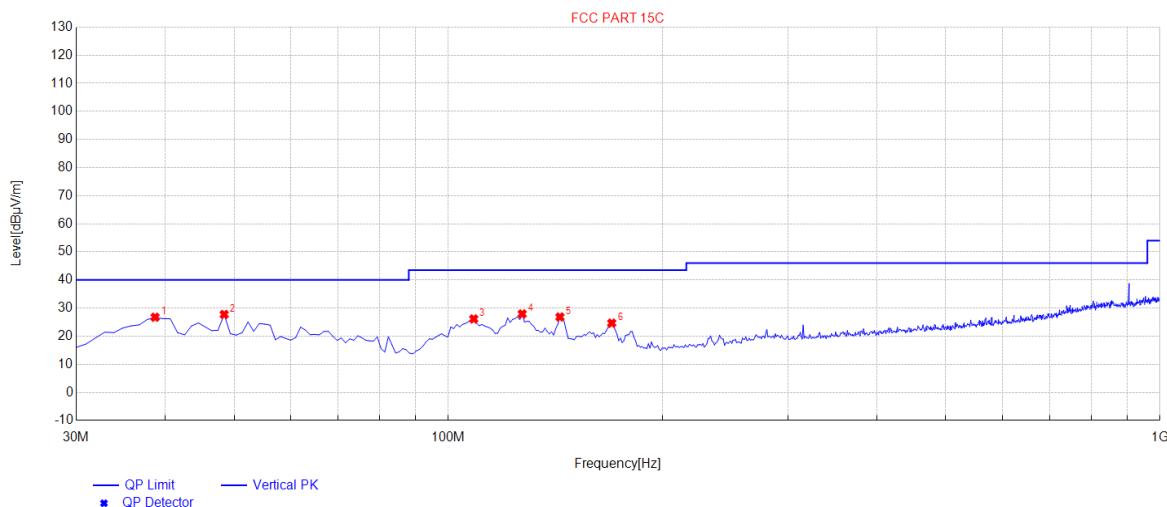
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EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Vertical



NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.73	26.74	10.73	40.00	13.26	100	93	Vertical
2	48.43	27.73	11.53	40.00	12.27	100	271	Vertical
3	108.57	26.13	12.27	43.50	17.37	100	354	Vertical
4	127	27.92	13.95	43.50	15.58	100	221	Vertical
5	143.49	26.83	14.88	43.50	16.67	100	29	Vertical
6	169.68	24.65	13.98	43.50	18.85	100	151	Vertical

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss, Margin=Limit-Level.

The "Factor" value can be calculated automatically by software of measurement system.

All modes of each antenna are tested. The mode 1 is the worst case and recorded in the report.

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FIELD STRENGTH OF FUNDAMENTAL

EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Modulation	GFSK	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2407	46.59	49.05	95.64	114.00	-18.36	peak
2407	43.16	49.05	92.21	94.00	-1.79	AVG
2465	39.29	49.12	88.41	114.00	-25.59	peak
2465	28.52	49.12	77.64	94.00	-16.36	AVG
2478	43.98	49.25	93.23	114.00	-20.77	peak
2478	39.06	49.25	88.31	94.00	-5.69	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Modulation	GFSK	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2407	44.37	49.05	95.44	114.00	-18.56	peak
2407	29.51	49.05	90.74	94.00	-3.26	AVG
2465	45.31	49.12	86.73	114.00	-27.27	peak
2465	30.11	49.12	78.84	94.00	-15.16	AVG
2478	40.78	49.25	92.83	114.00	-21.17	peak
2478	30.48	49.25	88.54	94.00	-5.46	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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RADIATED EMISSION ABOVE 1GHZ

EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4814	41.67	0.08	41.37	74.00	-32.63	peak
4814	35.25	0.08	34.19	54.00	-19.81	AVG
7221	35.93	2.21	37.96	74.00	-36.04	peak
7221	30.97	2.21	34.24	54.00	-19.76	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4814	40.67	0.08	41.86	74.00	-32.14	peak
4814	36.48	0.08	37.14	54.00	-16.86	AVG
7221	36.75	2.21	37.97	74.00	-36.03	peak
7221	32.21	2.21	35.13	54.00	-18.87	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 2	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4930	42.45	0.14	41.96	74.00	-32.04	peak
4930	36.79	0.14	37.94	54.00	-16.06	AVG
7395	35.85	2.36	37.17	74.00	-36.83	peak
7395	31.51	2.36	34.89	54.00	-19.11	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 2	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4930	41.33	0.14	42.38	74.00	-31.62	peak
4930	36.94	0.14	38.19	54.00	-15.81	AVG
7395	35.46	2.36	37.06	74.00	-36.94	peak
7395	31.24	2.36	35.15	54.00	-18.85	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4956	40.24	0.22	39.84	74.00	-34.16	peak
4956	36.46	0.22	36.86	54.00	-17.14	AVG
7434	37.97	2.64	41.08	74.00	-32.92	peak
7434	33.65	2.64	35.37	54.00	-18.63	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
4956	39.78	0.22	39.89	74.00	-34.11	peak
4956	35.34	0.22	36.45	54.00	-17.55	AVG
7434	36.85	2.64	37.17	74.00	-36.83	peak
7434	33.68	2.64	36.78	54.00	-17.22	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Note: The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Level-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

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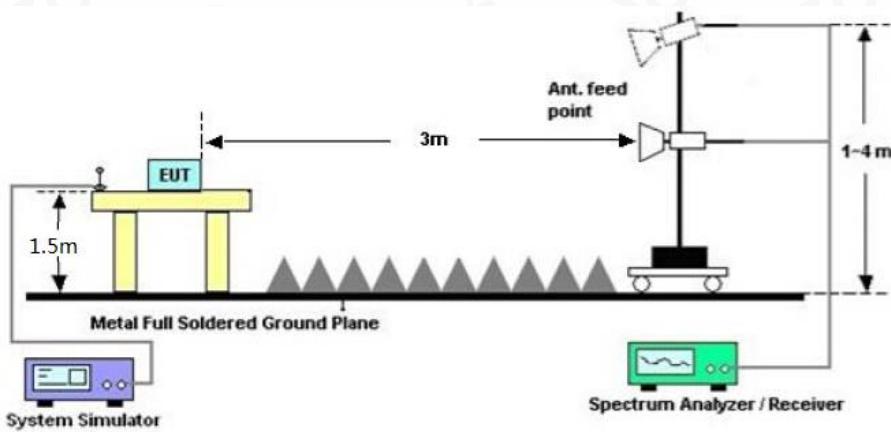
8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz ; VBW=3MHz / Sweep=AUTO
3. Other procedures refer to clause 7.2.

8.2 TEST SETUP

RADIATED EMISSION TEST SETUP



8.3 RADIATED TEST RESULT

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

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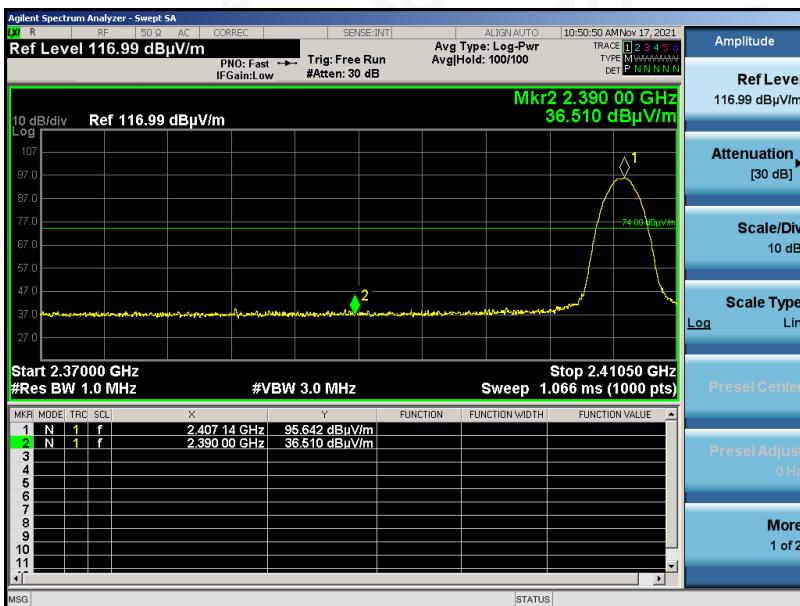
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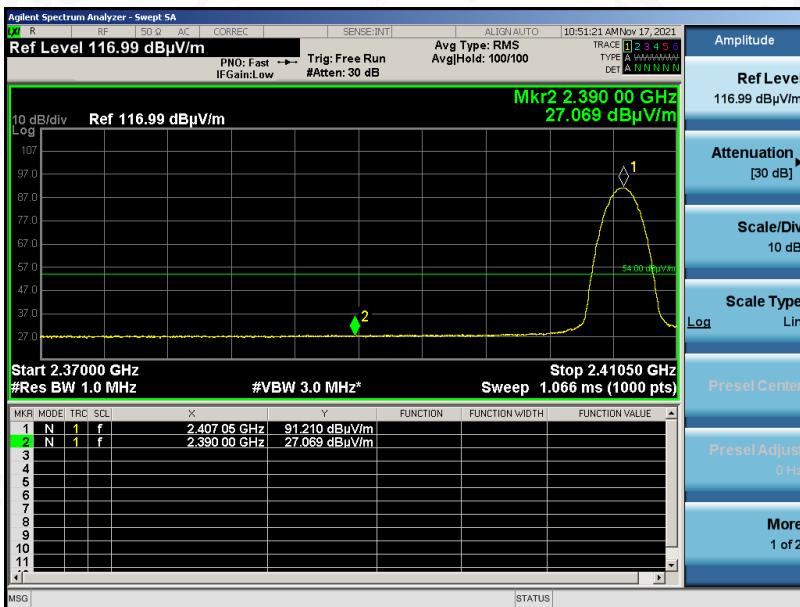


EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Horizontal

Peak Value



Average Value



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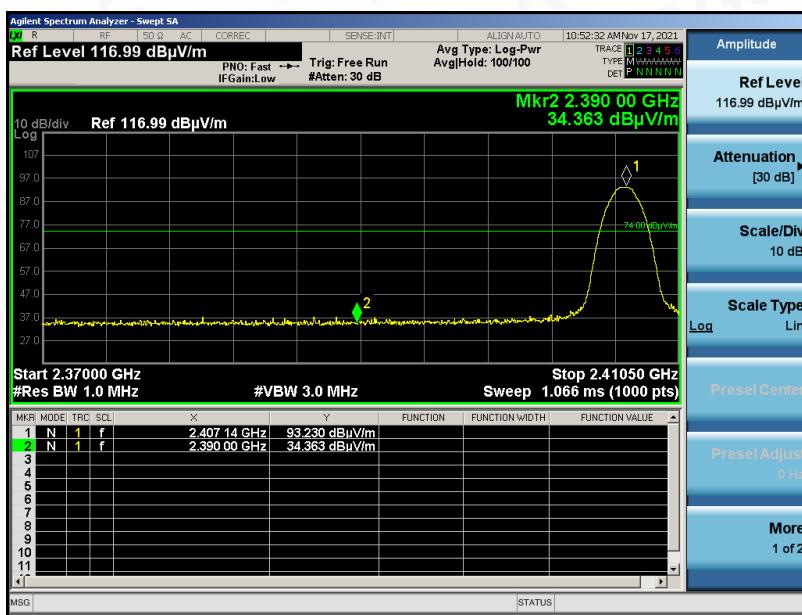
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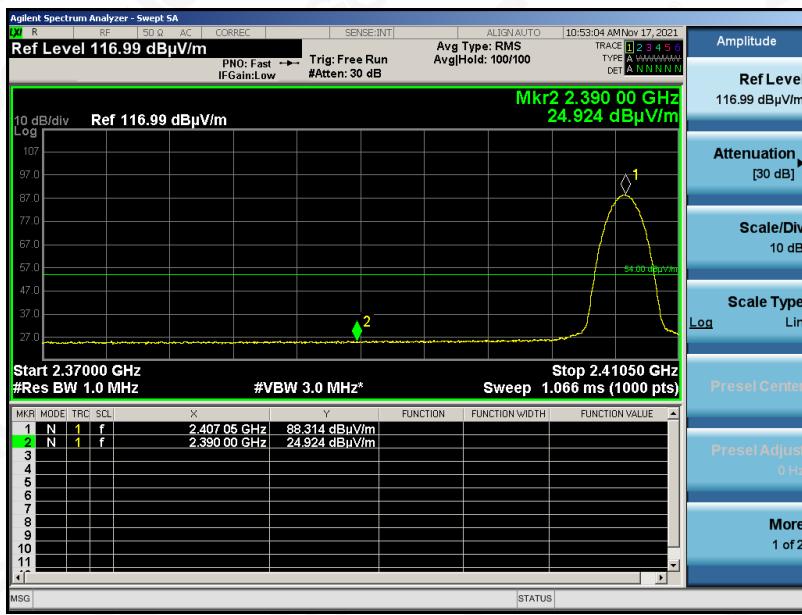


EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Vertical

Peak Value



Average Value



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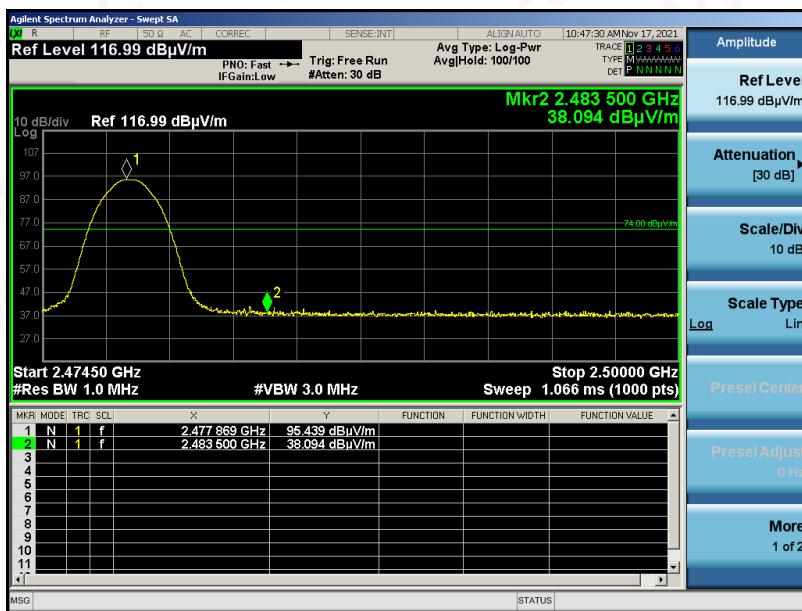
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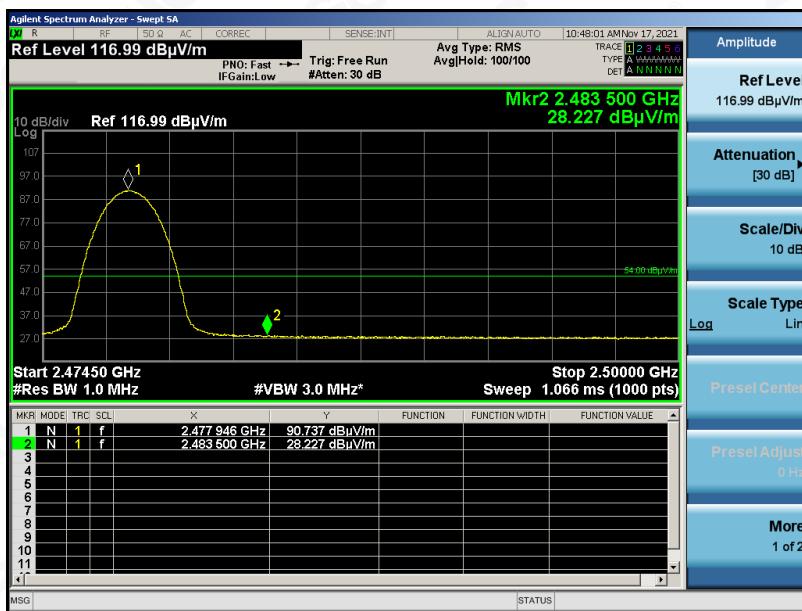


EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Horizontal

Peak Value



Average Value



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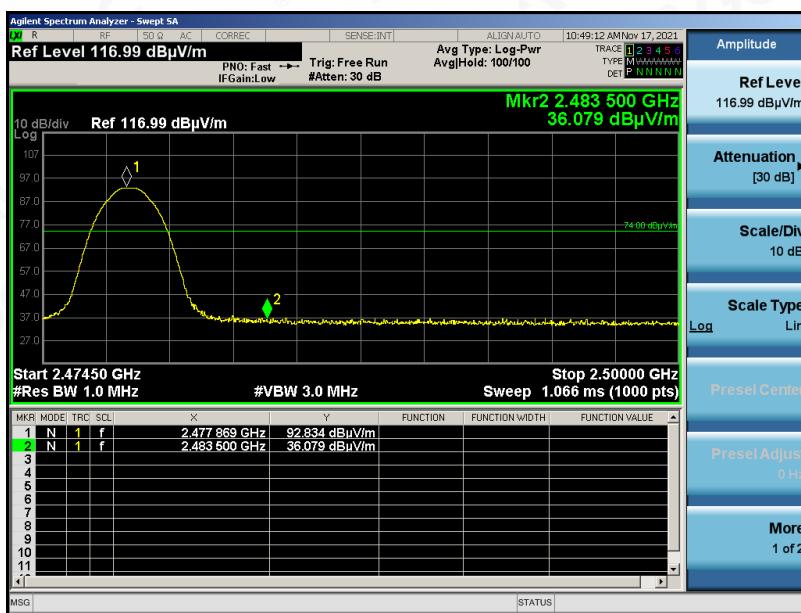
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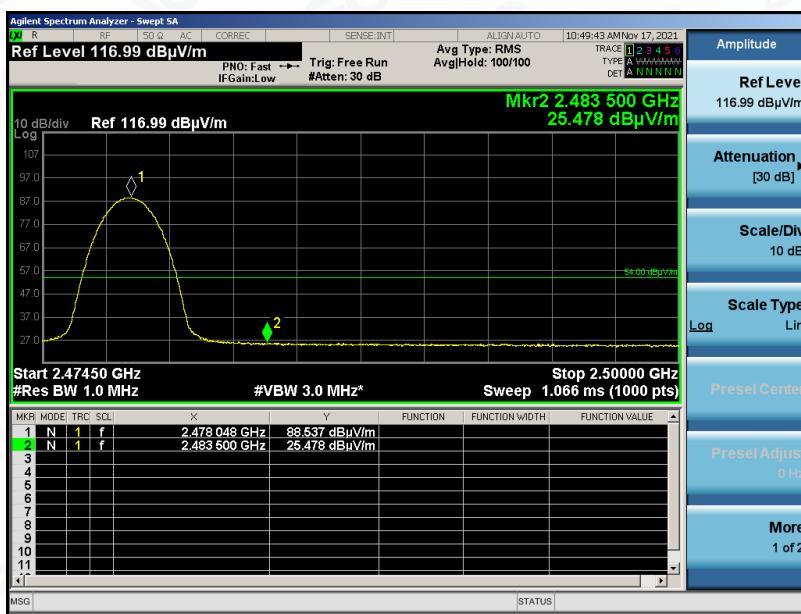


EUT	RC AIRCRAFT	Model Name	W11
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Vertical

Peak Value



Average Value



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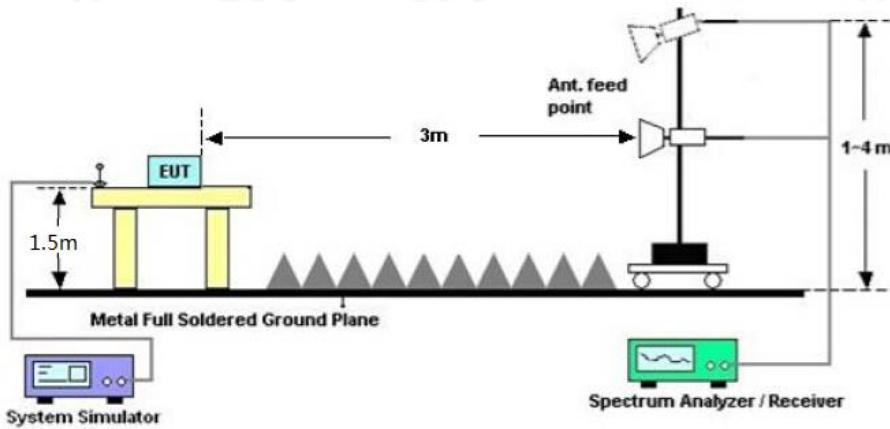


9. 20DB BANDWIDTH

9.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, RBW= 30 KHz, VBW $\geq 3 \times$ RBW.
3. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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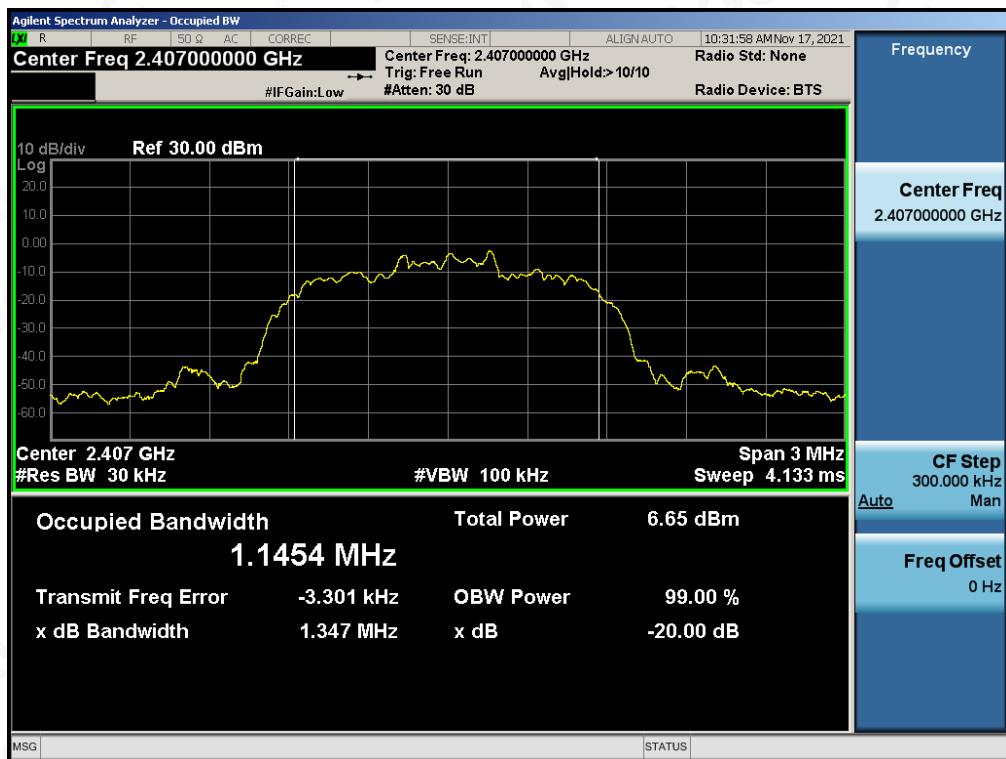


9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK

Test Channel (MHz)	20DB BANDWIDTH (MHz)	99% BANDWIDTH (MHz)	Criteria
2407	1.347	1.1454	PASS
2465	1.355	1.1535	PASS
2478	1.344	1.1433	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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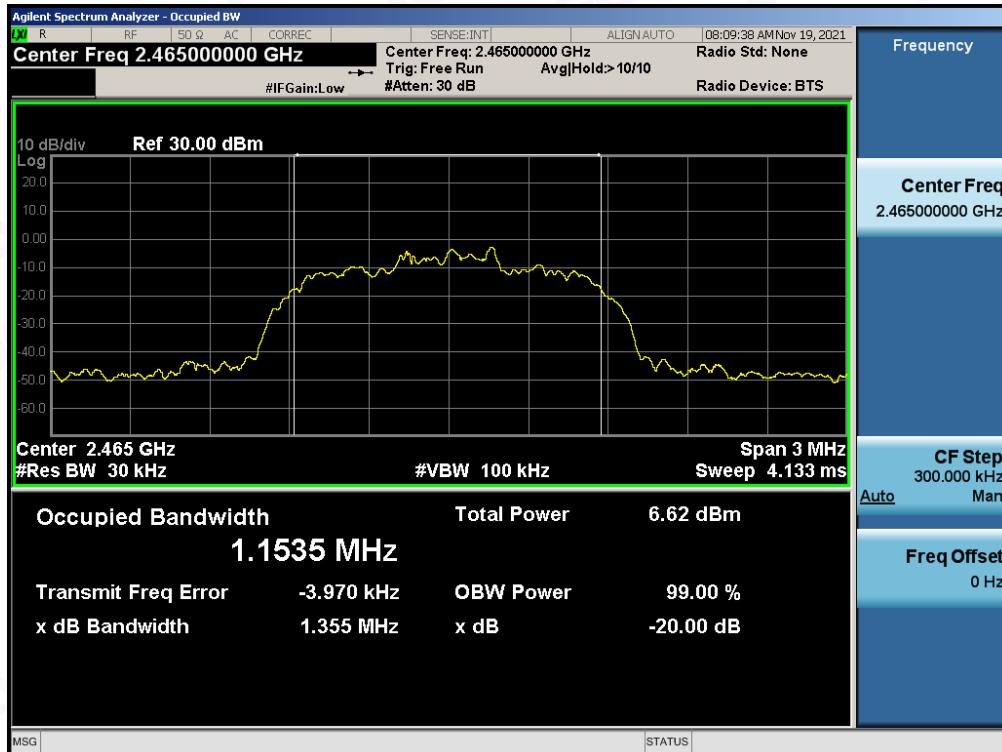
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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10. FCC LINE CONDUCTED EMISSION TEST

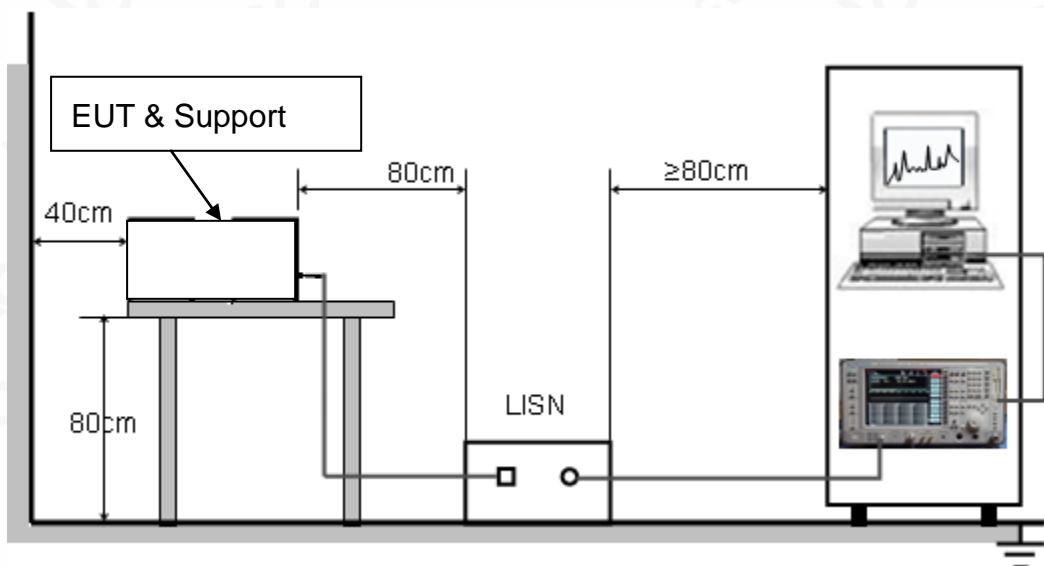
10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P. (dBuV)	Average (dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 3.7V power from PC which received AC120V/60Hz power from a LISN.

6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

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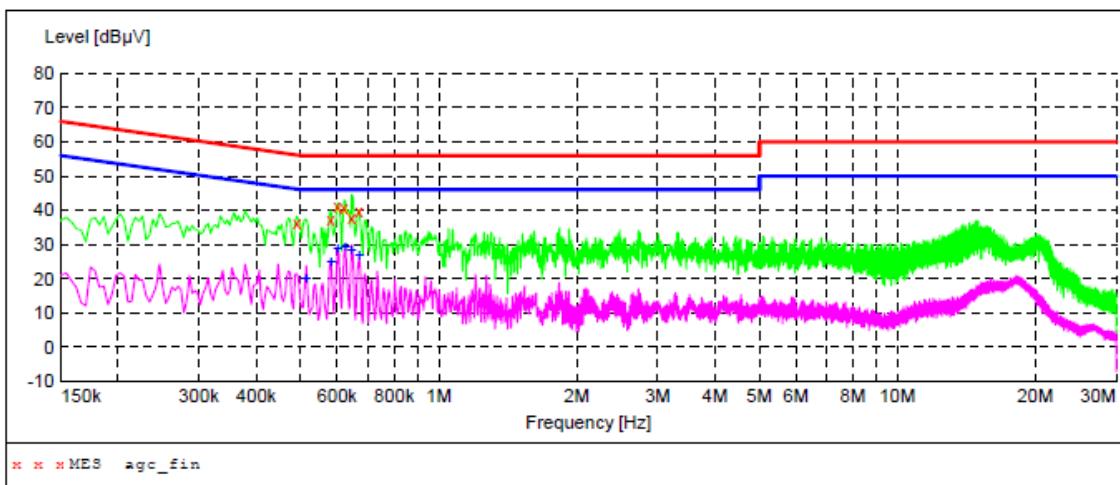
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

2021/11/9 11:25

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.490000	36.50	5.4	56	19.7	QP	L1
0.582000	37.10	5.4	56	18.9	QP	L1
0.602000	41.30	5.4	56	14.7	QP	L1
0.622000	40.60	5.4	56	15.4	QP	L1
0.646000	37.80	5.4	56	18.2	QP	L1
0.670000	39.70	5.4	56	16.3	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2021/11/9 11:25

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.514000	20.50	5.4	46	25.5	AV	L1
0.582000	24.90	5.4	46	21.1	AV	L1
0.602000	28.90	5.4	46	17.1	AV	L1
0.626000	29.70	5.4	46	16.3	AV	L1
0.646000	28.50	5.4	46	17.5	AV	L1
0.670000	27.30	5.4	46	18.7	AV	L1

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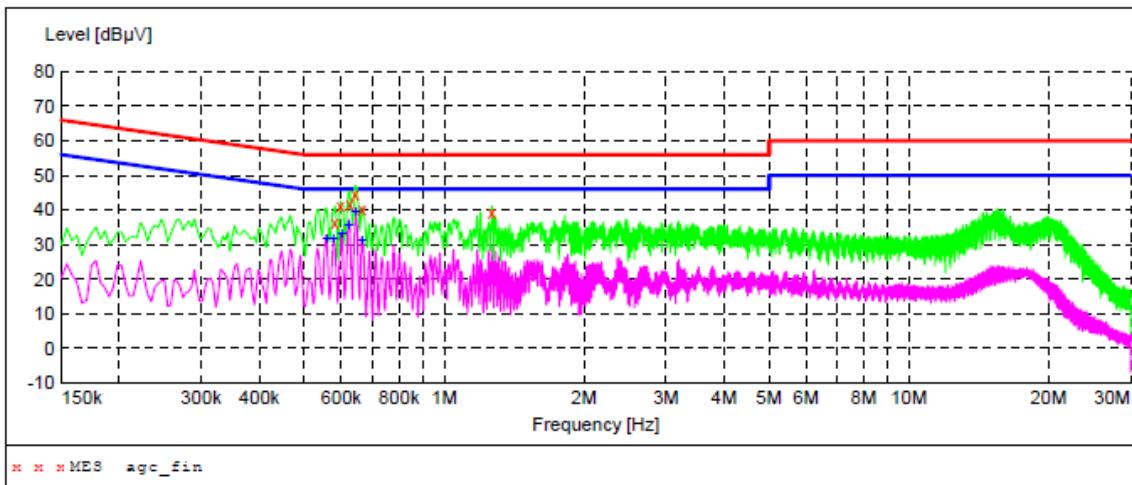
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Line Conducted Emission Test Line 2-N


MEASUREMENT RESULT: "agc_fin"

2021/11/9 11:22

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.582000	36.30	5.4	56	19.7	QP	N
0.598000	40.90	5.4	56	15.1	QP	N
0.626000	41.50	5.4	56	14.5	QP	N
0.642000	44.50	5.4	56	11.5	QP	N
0.666000	40.20	5.4	56	15.8	QP	N
1.266000	39.20	5.8	56	16.8	QP	N

MEASUREMENT RESULT: "agc_fin2"

2021/11/9 11:22

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.558000	31.80	5.4	46	14.2	AV	N
0.578000	32.10	5.4	46	13.9	AV	N
0.602000	33.60	5.4	46	12.4	AV	N
0.622000	36.00	5.4	46	10.0	AV	N
0.646000	39.90	5.4	46	6.1	AV	N
0.666000	31.50	5.4	46	14.5	AV	N

RESULT: PASS

All modes of each antenna are tested. The mode 1 is the worst case and recorded in the report.

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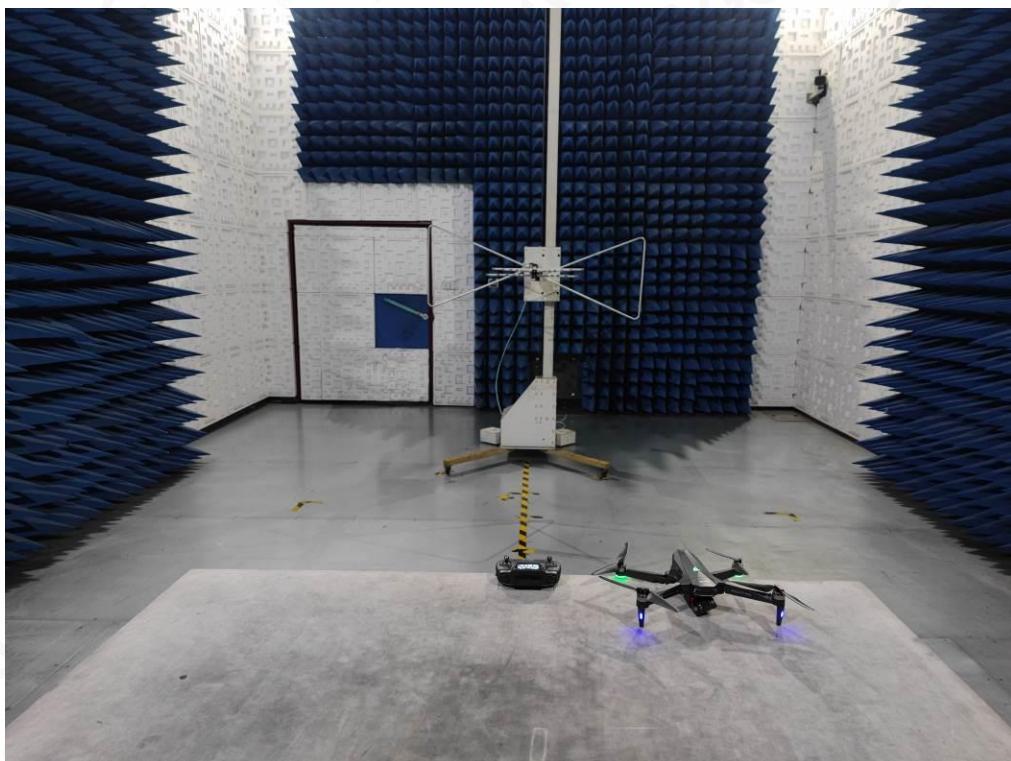
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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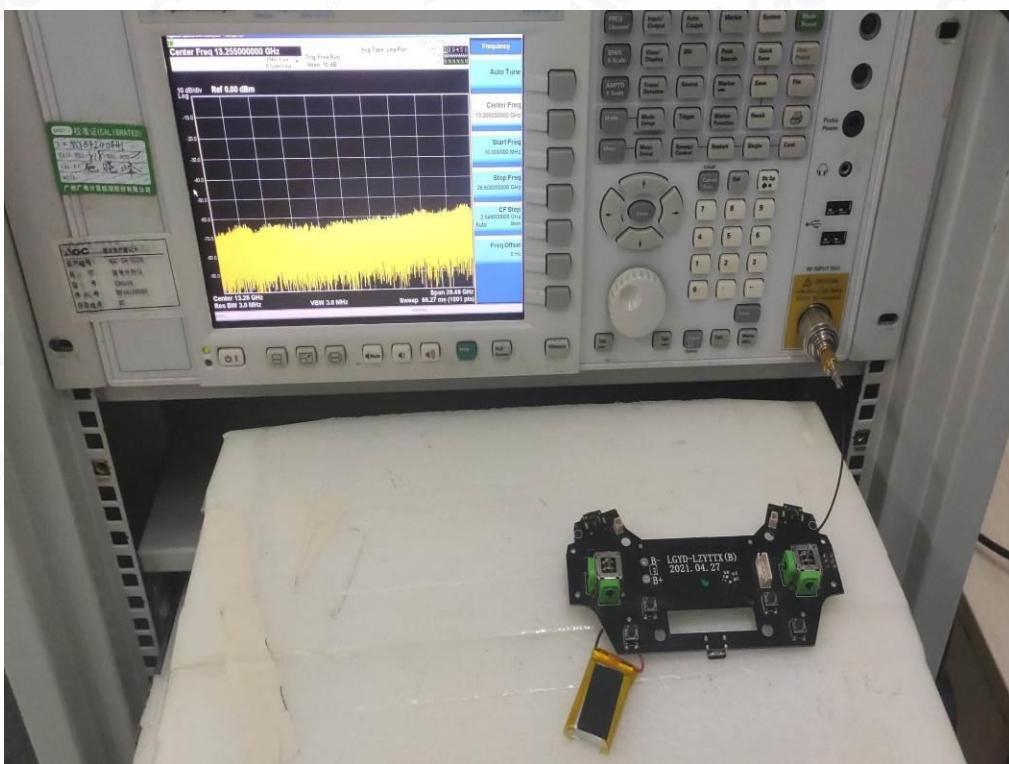
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CONDUCTED EMISSION TEST SETUP



CONDUCTED TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF THE EUT
ALL VIEW OF EUT**OUTSIDE VIEW-1 OF EUT**

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OUTSIDE VIEW-2 OF EUT



OUTSIDE VIEW-3 OF EUT



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OUTSIDE VIEW-4 OF EUT



OUTSIDE VIEW-5 OF EUT



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