

TEST REPORT

Report No.: 18070322HKG-002

Avia International Group Ltd

Application For Certification
(Original Grant)

FCC ID: 2AIDERNRKRCCAR

Transceiver

Prepared and Checked by:

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Date: July 19, 2018

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TEST REPORT

GENERAL INFORMATION

Grantee:	Avia International Group Ltd
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Contact Person:	Kit Chau
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Manufacturer:	Avia International Group Limited
Manufacturer Address:	Unit 1223, Tower 1, Metro Plaza, 32 Lam Hing Street, Kowloon Bay, Kowloon, Hong Kong.
Brand Name:	Red Neck Road Kill RC Truck
Model:	10022RS
Additional Model:	10024Z, 101G, 10001RR, 10002RR, 100001, 10002
Type of EUT:	Transceiver
Description of EUT:	Red Neck Road Kill RC Truck
Serial Number:	N/A
FCC ID:	2AIDERNRKRCCAR
Date of Sample Submitted:	July 06, 2018
Date of Test:	July 06, 2018 to July 16, 2018
Report No.:	18070322HKG-002
Report Date:	July 19, 2018
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%

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SUMMARY OF TEST RESULT

Test Specification	Reference	Results
Radiated Emission	15.249, 15.209	Pass
Radiated Emission on the Bandedge		
Radiated Emission in Restricted Bands	15.205	Pass

The equipment under test is found to be complying with the following standards:
FCC Part 15, October 1, 2016 Edition

Note: 1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the provisions of this section.

2. Pursuant to FCC part 15 Section 15.215(c), the 20 dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered.

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1.0 GENERAL DESCRIPTION

1.1 Product Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Car Unit) for a RC car set. The operation frequency range is between 2420MHz and 2465MHz with following 25 channels used. The EUT is powered by 4 x 1.5V AAA batteries.

Channel	Frequency (MHz)
1	2420
2	2422
3	2424
4	2426
5	2428
6	2430
7	2431
8	2433
9	2435
10	2437
11	2439
12	2441
13	2443
14	2445
15	2446
16	2447
17	2449
18	2451
19	2453
20	2455
21	2457
22	2459
23	2461
24	2463
25	2465

After switching on the EUT, the controller can control the car to move forward or backward and turn left and right.

The Model: 10024Z, 101G, 10001RR, 10002RR, 100001 and 10002 are the same as the Model: 10022RS in hardware aspect. The difference in model number serves as marketing strategy. The models are different in model number, item name, color, packaging and non-conductive accessories only.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

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1.2 Related Submittal(s) Grants

The Certification procedure of transceiver for this transceiver (with FCC ID: 2AIDERNRKRC24G) is being processed as the same time of this application.

1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). All radiated measurements were performed in an 3m Chamber. Preliminary scans were performed in the 3m Chamber only to determine worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the **“Justification Section”** of this Application.

1.4 Test Facility

The 3m Chamber facility used to collect the radiated data is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong. This test facility and site measurement data have been placed on file with the FCC.

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2.0 SYSTEM TEST CONFIGURATION

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2013).

The device was powered by new DC 6.0V (4 x 1.5V AAA batteries).

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

The unit was operated standalone and placed in the center of the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered up, it transmits the RF signal continuously.

2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

2.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

2.5 Support Equipment List and Description

N/A.

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3.0 EMISSION RESULTS

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG - AV$$

where FS = Field Strength in dB μ V/m

RA = Receiver Amplitude (including preamplifier) in dB μ V

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

$$FS = RR + LF$$

where FS = Field Strength in dB μ V/m

RR = RA - AG - AV in dB μ V

LF = CF + AF in dB

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 27 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 52.0 \text{ dB}\mu\text{V/m}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$AV = 5.0 \text{ dB}$$

$$FS = RR + LF$$

$$FS = 18 + 9 = 27 \text{ dB}\mu\text{V/m}$$

$$RR = 18.0 \text{ dB}\mu\text{V}$$

$$LF = 9.0 \text{ dB}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(27 \text{ dB}\mu\text{V/m})/20] = 22.4 \mu\text{V/m}$$

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3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 4840 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Passed by 16.5 dB

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RADIATED EMISSIONS

Model: 10022RS

Date of Test: July 16, 2018

Worst-Case Operating Mode: Transmitting

Table 1
Pursuant to FCC Part 15 Section 15.249 Requirement

Lowest Channel

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
V	2420.000	84.8	33	29.4	81.2	17.2	64.0	94.0	-30.0
V	2400.000	53.3	33	29.4	49.7	17.2	32.5	54.0	-21.5
V	4840.000	52.8	33	34.9	54.7	17.2	37.5	54.0	-16.5
V	7260.000	47.0	33	37.9	51.9	17.2	34.7	54.0	-19.3
V	9680.000	41.8	33	40.4	49.2	17.2	32.0	54.0	-22.0
H	12100.000	44.2	33	40.5	51.7	17.2	34.5	54.0	-19.5
V	14520.000	48.0	33	38.4	53.4	17.2	36.2	54.0	-17.8

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
V	2420.000	84.8	33	29.4	81.2	114.0	-32.8
V	2400.000	53.3	33	29.4	49.7	74.0	-24.3
V	4840.000	52.8	33	34.9	54.7	74.0	-19.3
V	7260.000	47.0	33	37.9	51.9	74.0	-22.1
V	9680.000	41.8	33	40.4	49.2	74.0	-24.8
H	12100.000	44.2	33	40.5	51.7	74.0	-22.3
V	14520.000	48.0	33	38.4	53.4	74.0	-20.6

- NOTES:
1. Peak Detector Data unless otherwise stated.
 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative sign in the column shows value below limit.
 4. Horn antenna is used for the emission over 1000MHz.
 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
 6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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Model: 10022RS

Date of Test: July 16, 2018

Worst-Case Operating Mode: Transmitting

Table 2
Pursuant to FCC Part 15 Section 15.249 Requirement

Middle Channel

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
H	2447.000	85.1	33	29.4	81.5	17.2	64.3	94.0	-29.7
V	4894.000	52.0	33	34.9	53.9	17.2	36.7	54.0	-17.3
V	7341.000	47.4	33	37.9	52.3	17.2	35.1	54.0	-18.9
V	9788.000	41.9	33	40.4	49.3	17.2	32.1	54.0	-21.9
H	12235.000	44.0	33	40.5	51.5	17.2	34.3	54.0	-19.7
V	14682.000	48.1	33	38.4	53.5	17.2	36.3	54.0	-17.7

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
H	2447.000	85.1	33	29.4	81.5	114.0	-32.5
V	4894.000	52.0	33	34.9	53.9	74.0	-20.1
V	7341.000	47.4	33	37.9	52.3	74.0	-21.7
V	9788.000	41.9	33	40.4	49.3	74.0	-24.7
H	12235.000	44.0	33	40.5	51.5	74.0	-22.5
V	14682.000	48.1	33	38.4	53.5	74.0	-20.5

- NOTES:
1. Peak Detector Data unless otherwise stated.
 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative sign in the column shows value below limit.
 4. Horn antenna is used for the emission over 1000MHz.
 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
 6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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Model: 10022RS

Date of Test: July 16, 2018

Worst-Case Operating Mode: Transmitting

Table 3
Pursuant to FCC Part 15 Section 15.249 Requirement

Highest Channel

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
H	2465.000	85.4	33	29.4	81.8	17.2	64.6	94.0	-29.4
H	2483.500	53.9	33	29.4	50.3	17.2	33.1	54.0	-20.9
V	4930.000	51.5	33	34.9	53.4	17.2	36.2	54.0	-17.8
V	7395.000	47.9	33	37.9	52.8	17.2	35.6	54.0	-18.4
V	9860.000	41.7	33	40.4	49.1	17.2	31.9	54.0	-22.1
H	12325.000	44.3	33	40.5	51.8	17.2	34.6	54.0	-19.4
V	14790.000	47.9	33	38.4	53.3	17.2	36.1	54.0	-17.9

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
H	2465.000	85.4	33	29.4	81.8	114.0	-32.2
H	2483.500	53.9	33	29.4	50.3	74.0	-23.7
V	4930.000	51.5	33	34.9	53.4	74.0	-20.6
V	7395.000	47.9	33	37.9	52.8	74.0	-21.2
V	9860.000	41.7	33	40.4	49.1	74.0	-24.9
H	12325.000	44.3	33	40.5	51.8	74.0	-22.2
V	14790.000	47.9	33	38.4	53.3	74.0	-20.7

- NOTES:
1. Peak Detector Data unless otherwise stated.
 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative sign in the column shows value below limit.
 4. Horn antenna is used for the emission over 1000MHz.
 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
 6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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4.0 EQUIPMENT PHOTOGRAPHS

For electronic filing, the photographs are saved with filename: external photos.pdf and internal photos.pdf.

5.0 PRODUCT LABELLING

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

6.0 TECHNICAL SPECIFICATIONS

For electronic filing, the block diagram and schematic of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

7.0 INSTRUCTION MANUAL

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

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8.0 MISCELLANEOUS INFORMATION

The miscellaneous information includes details of the test procedure and measured bandwidth / calculation of factor such as pulse desensitization and averaging factor (calculation and timing diagram).

8.1 Radiated Emission on the Bandedge

The test data of bandedge emissions were shown on the above radiated emissions table 1 & table 3 respectively.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50dB below the level of the fundamental or to the general radiated emissions limits in Section 15.209 , whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

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8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (Teff) is approximately 0.690ms for a digital "1" bit which illustrated on technical specification, with a resolution bandwidth (3dB) of 1MHz, so the pulse desensitivity factor is 0dB.

8.3 Calculation of Average Factor

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 100 ms

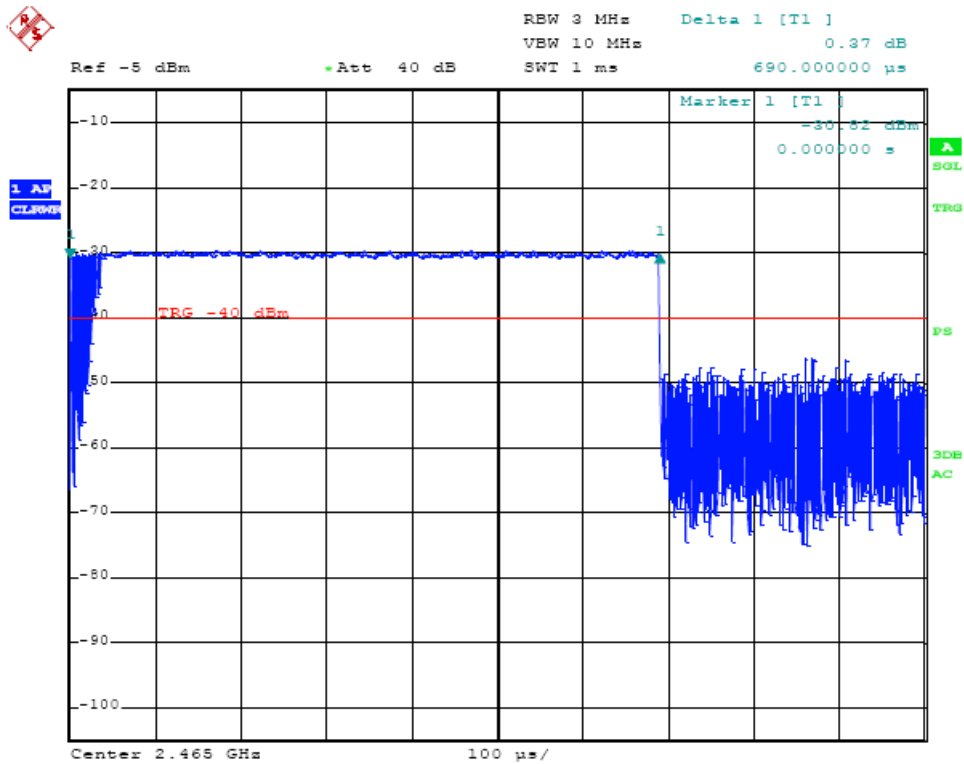
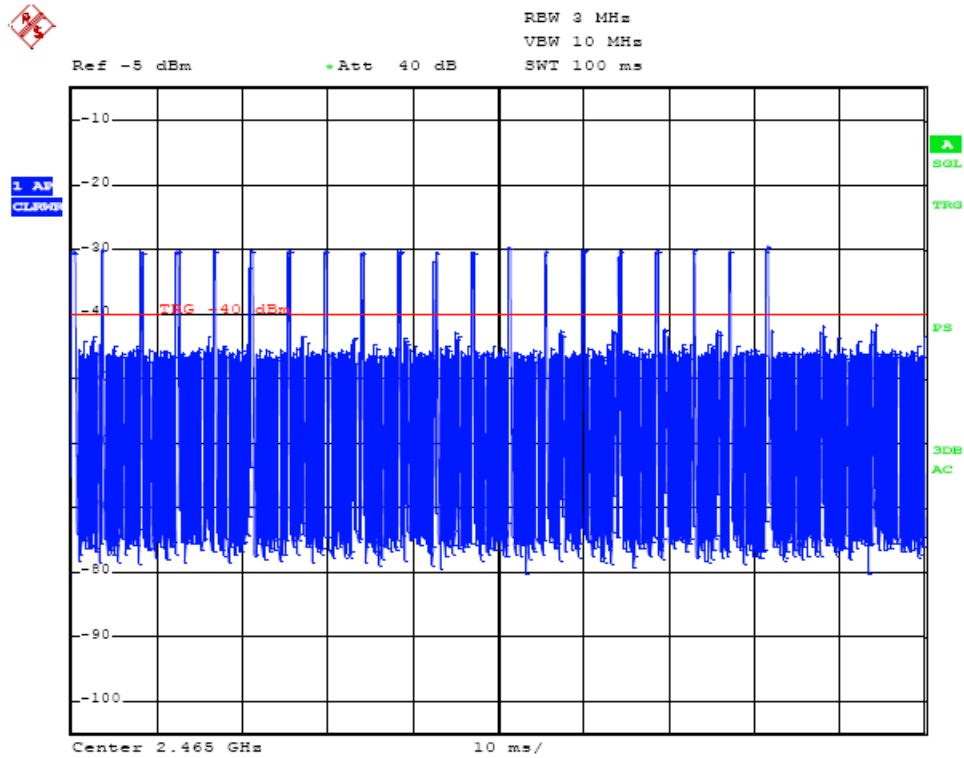
Effective period of the cycle = $20 * 0.690 = 13.80$ ms

DC = $13.8/100 = 0.138$

Therefore, the averaging factor is found by $20\log 0.138 = -17.2$ dB.

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AVERAGE FACTOR



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8.4 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services Hong Kong Ltd. in the measurements of transmitter operating under the Part 15, Subpart C rules.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately 0.8m in height above the ground plane for emission measurement at or below 1GHz and 1.5m in height above the ground plane for emission measurement above 1GHz. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axis to obtain maximum emission levels. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

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8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements were made as described in ANSI C63.10 (2013).

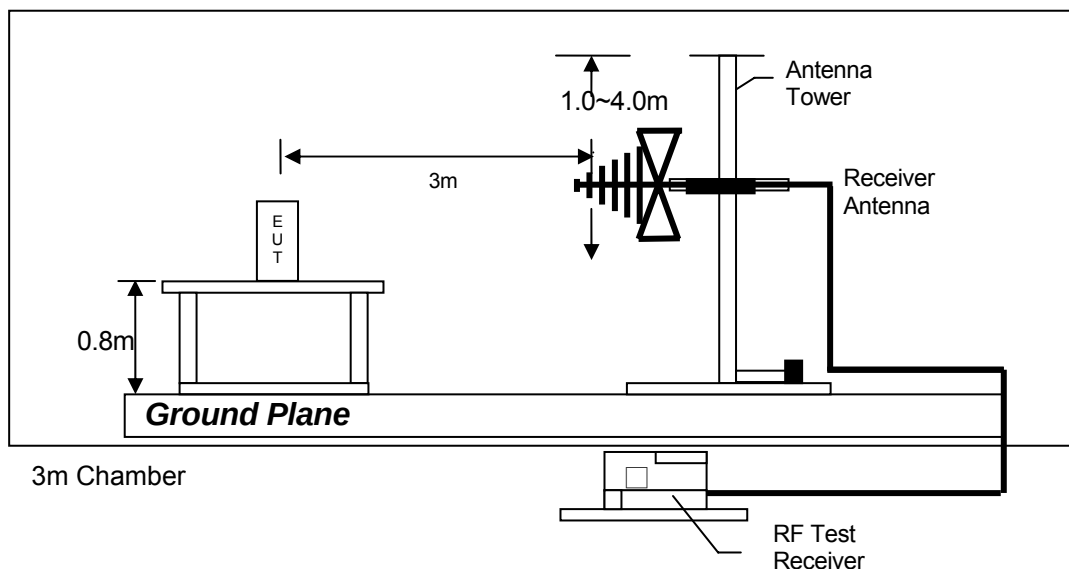
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 3 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, unless otherwise reported. Measurements taken at a closer distance are so marked.

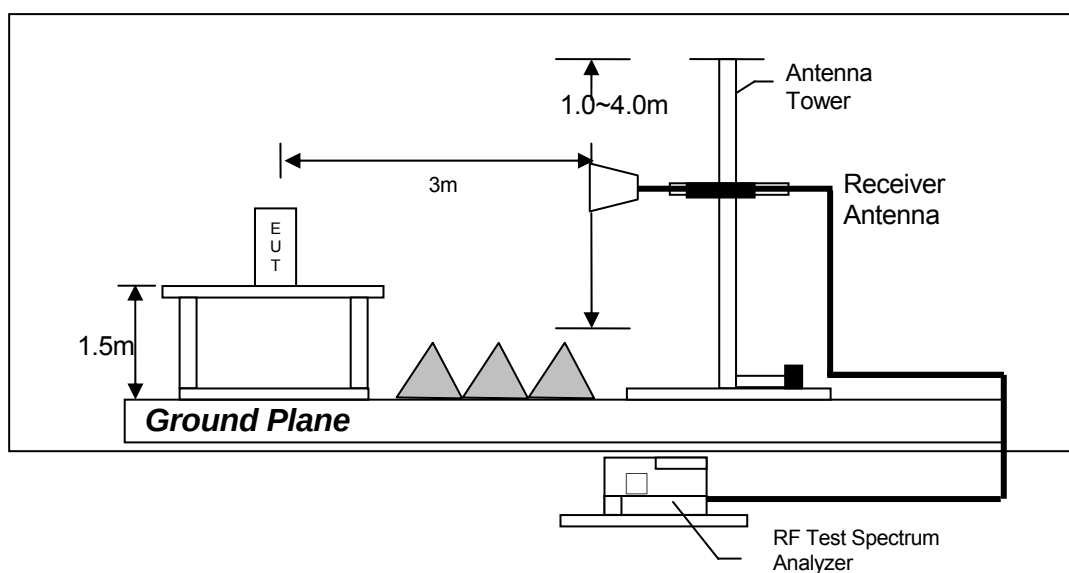
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8.4.1 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.



Test setup of radiated emissions up to 1GHz



Test setup of radiated emissions above 1GHz

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9.0 CONFIDENTIALITY REQUEST

For electronic filing, a preliminary copy of the confidentiality request is saved with filename: request.pdf.

10.0 EQUIPMENT LIST

1) Radiated Emissions Test

Equipment	Spectrum Analyzer	EMI Test Receiver	Pyramidal Horn Antenna
Registration No.	EW-3281	EW-3156	EW-0905
Manufacturer	ROHDESCHWARZ	R&S	EMCO
Model No.	FSV40	ESR26	3160-09
Calibration Date	January 02, 2018	November 10, 2017	May 05, 2017
Calibration Due Date	January 02, 2019	November 10, 2018	November 24, 2018

Equipment	Log Periodic Antenna	Double Ridged Guide Antenna	RF Cable 14m (1GHz to 26.5GHz)
Registration No.	EW-1042	EW-1133	EW-2781
Manufacturer	EMCO	EMCO	GREATBILLION
Model No.	3148	3115	SMA m/SHF5MPU /SMA m ra14m,26G
Calibration Date	June 19, 2017	May 24, 2017	September 25, 2017
Calibration Due Date	December 19, 2018	November 24, 2018	September 25, 2018

Equipment	RF Pre-amplifier 3 pcs (9kHz to 40GHz)	12m Double Shield RF Cable	Biconical Antenna
Registration No.	EW-3006	EW-1852	EW-3235
Manufacturer	SCHWARZBECK	RADIALL	EMCO
Model No.	BBV 9718 BBV9744 BBV 9721	N(m)-RG142 - N(m)	SBA9113-503
Calibration Date	January 30, 2018	January 19, 2018	September 29, 2016
Calibration Due Date	January 30, 2019	January 19, 2019	September 29, 2018

Equipment	High Pass Filter 3GHz to 12GHz (2 Pieces)	14m Double Shield RF Cable (20MHz - 6GHz)	Notch Filter (cutoff frequency 2.4GHz to 2.5GHz) 2 pieces
Registration No.	EW-1835	EW-2505	EW-2213
Manufacturer	KLMICROWAVE	RADIALL	MICROTRONICS
Model No.	11SH10-3000/T12000-0/OP	nm / br5d / sma 14m	BRM50701-02
Calibration Date	May 11, 2018	October 30, 2017	May 11, 2018
Calibration Due Date	May 11, 2019	October 30, 2018	May 11, 2019

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Equipment	Loop Antenna (1000Hz to 30MHz)
Registration No.	EW-3318
Manufacturer	EMCO
Model No.	6905
Calibration Date	August 31, 2017
Calibration Due Date	August 31, 2018

2) Average Factor Measurement

Equipment	RF Cable 30cm (1-26)GHz	Spectrum Analyzer
Registration No.	EW-2268	EW-2329
Manufacturer	RADIALL	R&S
Model No.	SMA(M)/SHF5M/SMA(M) 30cm	FSP3
Calibration Date	August 23, 2017	September 28, 2017
Calibration Due Date	August 23, 2018	September 28, 2018

END OF TEST REPORT