

Wireless Test Report 370507-2TRFWL

370507-2TRFWL

Date of issue: August 23, 2019

Applicant:

Barrett Communications Pty Ltd

Product:

4075 HF High Power Transmitter- 500 W

Model:

BC407520

FCC ID:

OW4-BC407520

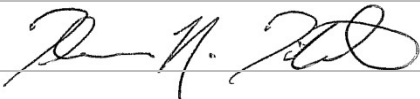
Specifications:

FCC 47 CFR Part 87

Aviation Services

Lab and test locations

| | | | | |
|------------------------|---|--|---|---|
| Company name | Nemko Canada Inc. | | | |
| Facilities | Ottawa site: 303 River Road Ottawa, Ontario Canada K1V 1H2 Tel: +1 613 737 9680 Fax: +1 613 737 9691 | Montréal site: 292 Labrosse Avenue Pointe-Claire, Québec Canada H9R 5L8 Tel: +1 514 694 2684 Fax: +1 514 694 3528 | Cambridge site: 1-130 Saltsman Drive Cambridge, Ontario Canada N3E 0B2 Tel: +1 519 650 4811 | Almonte site: 1500 Peter Robinson Road West Carleton, Ontario Canada KOA 1L0 Tel: +1 613 256-9117 Fax: +1 613 256-8848 |
| Test site registration | Organization FCC/ISED | Recognition numbers and location CA2040 (Ottawa/Almonte); CA2041 (Montreal); CA0101 (Cambridge) | | |
| Website | www.nemko.com | | | |

| | |
|-------------|---|
| Tested by | Fahar Abdul Sukkoor, Wireless/EMC Specialist |
| Reviewed by | Tom Tidwell, Director, Nemko Direct for Telecom |
| Date | August 23, 2019 |
| Signature |  |

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko Canada's ISO/IEC 17025 accreditation.

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Table of contents

| | |
|--|-----------|
| Table of contents | 3 |
| Section 1. Report summary | 4 |
| 1.1 Applicant and manufacturer | 4 |
| 1.2 Test specifications | 4 |
| 1.3 Test methods..... | 4 |
| 1.4 Statement of compliance | 4 |
| 1.5 Exclusions | 4 |
| 1.6 Test report revision history | 4 |
| Section 2. Summary of test results | 5 |
| 2.1 FCC Part 87 test results | 5 |
| Section 3. Equipment under test (EUT) details | 6 |
| 3.1 Sample information..... | 6 |
| 3.2 EUT information | 6 |
| 3.3 Technical information | 6 |
| 3.4 Product description and theory of operation | 6 |
| 3.5 EUT exercise details..... | 6 |
| 3.6 EUT setup diagram | 7 |
| 3.7 EUT sub assemblies | 7 |
| Section 4. Engineering considerations | 8 |
| 4.1 Modifications incorporated in the EUT..... | 8 |
| 4.2 Technical judgment | 8 |
| 4.3 Deviations from laboratory tests procedures | 8 |
| Section 5. Test conditions | 9 |
| 5.1 Atmospheric conditions | 9 |
| 5.2 Power supply range..... | 9 |
| Section 6. Measurement uncertainty | 10 |
| 6.1 Uncertainty of measurement | 10 |
| Section 7. Test equipment | 11 |
| 7.1 Test equipment list..... | 11 |
| Section 8. Testing data | 12 |
| 8.1 FCC 87.131 Power and emissions | 12 |
| 8.2 FCC 2.1047 Modulation characteristics | 14 |
| 8.3 FCC 87.139(c) Emission limits, emission mask, bandwidth..... | 17 |
| 8.4 FCC 87.141(d) Modulation requirements | 20 |
| 8.5 FCC 87.139(c) Emission limits, conducted method..... | 23 |
| 8.6 FCC 87.139(c) Emission limits, radiated method | 26 |
| 8.7 FCC 87.133 Frequency stability | 29 |
| Section 9. Block diagrams of test set-ups | 30 |
| 9.1 Radiated emissions set-up for frequencies from 30 MHz -1 GHz | 30 |
| 9.2 Radiated emissions set-up for frequencies below 30 MHz..... | 30 |
| 9.3 Frequency stability | 31 |
| 9.4 Power limits, Modulation Characteristics, Emission limits, emission mask, bandwidth, Emission limits, conducted method | 31 |

Section 1. Report summary

1.1 Applicant and manufacturer

| | |
|-----------------|--------------------------------|
| Company name | Barrett Communications Pty Ltd |
| Address | 47 Discovery Drive, Bibra Lake |
| City | Perth |
| Province/State | Western Australia |
| Postal/Zip code | 6163 |
| Country | Australia |

1.2 Test specifications

| | |
|--------------------|-------------------|
| FCC 47 CFR Part 87 | Aviation Services |
|--------------------|-------------------|

1.3 Test methods

| | |
|------------------|---|
| ANSI C63.26:2015 | American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services |
|------------------|---|

1.4 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was completed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See "Summary of test results" for full details.

1.5 Exclusions

None

1.6 Test report revision history

| Revision # | Details of changes made to test report |
|------------|--|
| TRF | Original report issued |

Section 2. Summary of test results

2.1 FCC Part 87 test results

| Part | Test description | Verdict |
|-----------|---|----------|
| §87.131 | Power and emissions | Pass |
| 2.1047 | Modulation characteristics | Reported |
| 87.139(c) | Emission limits, emission mask, bandwidth | Pass |
| 87.141(d) | Modulation requirements | Pass |
| 87.139(c) | Emission limits, conducted method | Pass |
| 87.139(c) | Emission limits, radiated method | Pass |
| 87.133(c) | Frequency stability | Pass |

Notes: None

Section 3. Equipment under test (EUT) details

3.1 Sample information

| | |
|------------------------|--------------|
| Receipt date | May 15, 2019 |
| Nemko sample ID number | 1 |

3.2 EUT information

| | |
|---------------|--------------------------------------|
| Product name | 4075 HF High Power Transmitter-500 W |
| Model | BC407520 |
| Serial number | 407510117 |

3.3 Technical information

| | |
|---------------------------|--|
| Operating band | 1.6–30 MHz |
| Test frequencies | 2.182, 11.363, and 21.964 MHz |
| Modulation type | J3E and H3E |
| Occupied bandwidth (99 %) | 2.7 kHz (J3E), 3 kHz (H3E) |
| Power requirements | 120-240 V AC |
| Emission designator | 2K70J3E, 3K00H3E |
| Antenna information | Various types with standard PL-259 connector |

3.4 Product description and theory of operation

The Barrett 4075 Transmitter is a SDR based, 1000 channel HF SSB Transceiver with a frequency range of 1.6 to 30 MHz (250 kHz to 30 MHz in receive) with linear amplifier. The Barrett 4075 is designed using the latest technology including a high-resolution touch screen, IP connectivity, multi-language support, enhanced DSP noise reduction, secure digital voice, integrated GPS interface, ALE and advanced calling features.

3.5 EUT exercise details

The EUT was programmed for the low, mid, and high channels J3E used 400 and 1800 Hz input tone and H3E used 1500 Hz

3.6 EUT setup diagram

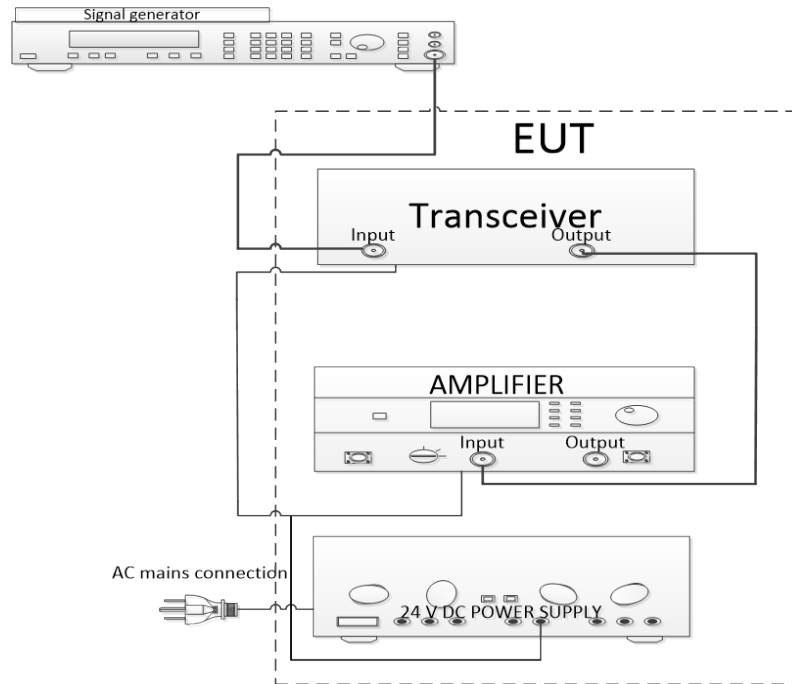


Figure 3.6-1: Setup diagram

3.7 EUT sub assemblies

Table 3.7-1: EUT sub assemblies

| Description | Brand name | Model/Part number | Serial number |
|---------------------------------------|------------|-------------------|---------------|
| Linear Amplifier | Barrett | 4075/BC407501 | 407510110 |
| Break out box | Barrett | 4050/BCA40050 | 405510114 |
| 24 V Power Supply/ 12.5 V 5 A charger | Barrett | 4022/- | - |
| HF Transceiver | Barrett | 4050/BC405000 | 405011528 |

Section 4. Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

None

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 5. Test conditions

5.1 Atmospheric conditions

| | |
|-------------------|---------------|
| Temperature | 15–30 °C |
| Relative humidity | 20–75 % |
| Air pressure | 860–1060 mbar |

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage, or any of the declared voltages $\pm 5\%$, for which the equipment was designed.

Section 6. Measurement uncertainty

6.1 Uncertainty of measurement

UKAS Lab 34 and TIA-603-B have been used as guidance for measurement uncertainty reasonable estimations with regards to previous experience and validation of data. Nemko Canada, Inc. follows these test methods in order to satisfy ISO/IEC 17025 requirements for estimation of uncertainty of measurement for wireless products.

Measurement uncertainty budgets for the tests are detailed below. Measurement uncertainty calculations assume a coverage factor of $K = 2$ with 95% certainty.

| Test name | Measurement uncertainty, dB |
|-----------------------------------|-----------------------------|
| All antenna port measurements | 0.55 |
| Conducted spurious emissions | 1.13 |
| Radiated spurious emissions | 3.78 |
| AC power line conducted emissions | 3.55 |

Section 7. Test equipment

7.1 Test equipment list

Table 7.1-1: Equipment list

| Equipment | Manufacturer | Model no. | Asset no. | Cal cycle | Next cal. |
|------------------------------|-----------------|-----------|-----------|-----------|-------------|
| Receiver/spectrum analyzer | Rohde & Schwarz | ESR 26 | FA002969 | 1 year | Jun-01/2019 |
| 3m EMI Test chamber | TDK | SAC-3 | FA003012 | 1 year | Aug-22/2019 |
| Flush mount table | SUNAR | FM2022 | FA003006 | - | NCR |
| Controller | SUNAR | SC110V | FA002976 | - | NCR |
| Antenna mast | SUNAR | TLT2 | FA003007 | - | NCR |
| Bilog Antenna(20-2000 MHz) | SUNAR | JB1 | FA003009 | 1year | Sep-06/2019 |
| Loop Antenna (9 kHz-30 MHz) | COM-Power | AL-130R | FA003002 | 1 year | Aug-08/2019 |
| Receiver/spectrum analyzer | Rohde & Schwarz | FSW | FA002969 | 1 year | Jun-01/2019 |
| Temperature chamber | Espec | EPX-4H | FA003033 | - | NCR |
| Arbitrary Waveform Generator | HP | 33120A | FA001082 | - | VOU |
| Arbitrary Waveform Generator | GW | GAG-808G | FA001034 | - | VOU |

Note: NCR - no calibration required, VOU - verify on use

Section 8. Testing data

8.1 FCC 87.131 Power and emissions

8.1.1 Definitions and limits

| Class of station | Frequency band/frequency | Authorized emission(s) ² | Maximum power ¹ |
|---|--------------------------|-------------------------------------|----------------------------|
| Aeronautical enroute and aeronautical fixed | HF | R3E, H3E, J3E, J7B, H2B, J2D | 6 kW |

¹The power is measured at the transmitter output terminals and the type of power is determined according to the emission designator as follows:

- (i) Mean power (pY) for amplitude modulated emissions and transmitting both sidebands using unmodulated full carrier.
- (ii) Peak envelope power (pX) for all emission designators other than those referred to in paragraph (i) of this note.

²Excludes automatic link establishment.

8.1.2 Test summary

| | | | |
|---------------|---------------------|-------------------|----------|
| Test date | May 17, 2019 | Temperature | 23 °C |
| Test engineer | Fahar Abdul Sukkoor | Air pressure | 980 mbar |
| Verdict | Pass | Relative humidity | 36 % |

8.1.3 Observations, settings and special notes

J3E – two tones at frequencies of 400 Hz and 1800 Hz, H3E one tone at a frequency of 1500 Hz

Test receiver settings:

| | |
|----------------------|----------|
| Detector mode | Peak |
| Resolution bandwidth | >OBW |
| Video bandwidth | >RBW |
| Trace mode | Max Hold |
| Measurement time | Auto |



8.1.4 Test data

Table 8.1-1: results 500 W system operation

| Modulation | Frequency, MHz | RF output power, dBm | Limit, dBm | Margin, dB |
|------------|----------------|----------------------|------------|------------|
| J3E | 2.182 | 59.29 | 67.78 | 8.49 |
| J3E | 11.363 | 58.36 | 67.78 | 9.42 |
| J3E | 21.964 | 58.48 | 67.78 | 9.30 |

Table 8.1-2: results 500 W system operation

| Modulation | Frequency, MHz | RF output power, dBm | Limit, dBm | Margin, dB |
|------------|----------------|----------------------|------------|------------|
| H3E | 2.182 | 56.55 | 67.78 | 11.23 |
| H3E | 11.363 | 56.03 | 67.78 | 11.75 |
| H3E | 21.964 | 56.08 | 67.78 | 11.70 |

8.2 FCC 2.1047 Modulation characteristics

8.2.1 Definitions and limits

(a) Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter, or of all circuitry installed between the modulation limiter and the modulated stage shall be submitted.

(c) Single sideband and independent sideband radiotelephone transmitters which employ a device or circuit to limit peak envelope power. A curve showing the peak envelope power output versus the modulation input voltage shall be supplied. The modulating signals shall be the same in frequency as specified in paragraph (c) of §2.1049 for the occupied bandwidth tests.

8.2.2 Test summary

| | | | |
|---------------|---------------------|-------------------|----------|
| Test date | May 17, 2019 | Temperature | 23 °C |
| Test engineer | Fahar Abdul Sukkoor | Air pressure | 980 mbar |
| Verdict | Pass | Relative humidity | 36 % |

8.2.3 Observations, settings and special notes

Settings and special notes

| | |
|----------------------|------|
| Detector mode | Peak |
| Resolution bandwidth | >OBW |
| Video bandwidth | >RBW |

8.2.4 Test data

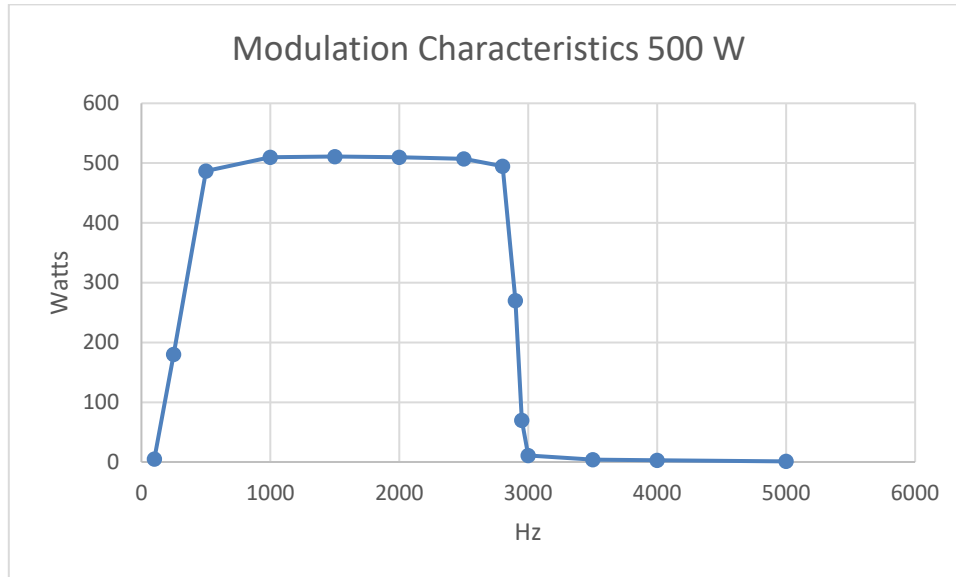


Figure 8.2-1: Modulation Characteristic 500 Watts



Table 8.2-1: Modulation Characteristic results 500 Watts

| Hz | Watts |
|------|-------|
| 100 | 5.25 |
| 250 | 180 |
| 500 | 487 |
| 1000 | 510 |
| 1500 | 511 |
| 2000 | 510 |
| 2500 | 507 |
| 2800 | 495 |
| 2900 | 270 |
| 2950 | 70 |
| 3000 | 11 |
| 3500 | 4 |
| 4000 | 3 |
| 5000 | 1 |

Table 8.2-2: Modulation Limiting results 500 Watts

| 2.182 MHz | | 11.363 MHz | | 21.964 MHz | |
|--------------|---------------------|--------------|---------------------|--------------|---------------------|
| Input Audio, | Output power, Watts | Input Audio, | Output power, Watts | Input Audio, | Output power, Watts |
| 0.03 | 1.9 | 0.03 | 2.5 | 0.01 | 3 |
| 0.04 | 5 | 0.04 | 4.7 | 0.03 | 50 |
| 0.05 | 10 | 0.05 | 6.8 | 0.05 | 90 |
| 0.1 | 125 | 0.08 | 17 | 0.1 | 3.5 |
| 0.15 | 400 | 0.16 | 68 | 0.15 | 13 |
| 0.16 | 470 | 0.2 | 108 | 0.2 | 50 |
| 0.2 | 511 | 0.25 | 168 | 0.25 | 100 |
| 0.25 | 511 | 0.3 | 240 | 0.3 | 200 |
| 0.3 | 511 | 0.35 | 320 | 0.35 | 300 |
| 0.4 | 511 | 0.4 | 470 | 0.4 | 420 |
| 0.45 | 511 | 0.45 | 527 | 0.45 | 500 |

8.3 FCC 87.139(c) Emission limits, emission mask, bandwidth

8.3.1 Definitions and limits

(c) For aircraft station transmitters first installed after February 1, 1983, and for aeronautical station transmitters in use after February 1, 1983, and using H2B, H3E, J3E, J7B or J9W, the peak envelope power of any emissions must be attenuated below the peak envelope power of the transmitter (pX) as follows:

- 1) When the frequency is removed from the assigned frequency by more than 50 percent up to and including 150 percent of the authorized bandwidth of 3.0 kHz, the attenuation must be at least 30 dB.
- 2) When the frequency is removed from the assigned frequency by more than 150 percent up to and including 250 percent of the authorized bandwidth of 3.0 kHz, the attenuation must be at least 38 dB.
- 3) When the frequency is removed from the assigned frequency by more than 250 percent of the authorized bandwidth of 3.0 kHz for aircraft transmitters the attenuation must be at least 43 dB. For aeronautical station transmitters with transmitter power up to and including 50 watts the attenuation must be at least 43 + 10 log₁₀ pX dB and with transmitter power more than 50 watts the attenuation must be at least 60 dB.

8.3.2 Test summary

| | | | |
|---------------|---------------------|-------------------|----------|
| Test date | May 17, 2019 | Temperature | 23 °C |
| Test engineer | Fahar Abdul Sukkoor | Air pressure | 985 mbar |
| Verdict | Pass | Relative humidity | 36 % |

8.3.3 Observations, settings and special notes

Spectrum analyzer settings:

| | |
|----------------------|-----------------|
| Detector mode | Peak |
| Resolution bandwidth | 300 Hz or 30 Hz |
| Video bandwidth | RBW × 3 |
| Trace mode | Max Hold |

8.3.4 Test data

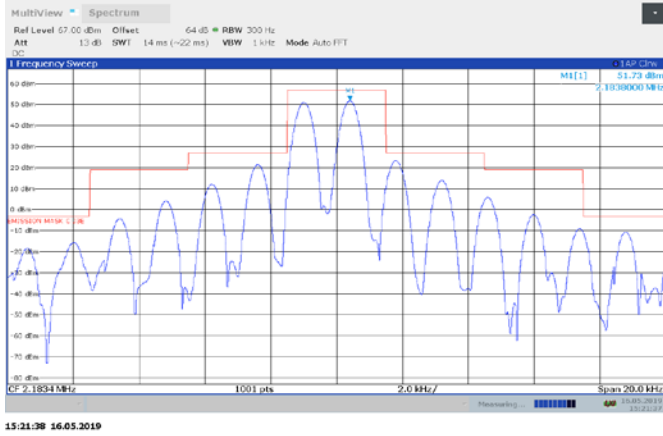


Figure 8.3-1: Low channel Mask 500W J3E

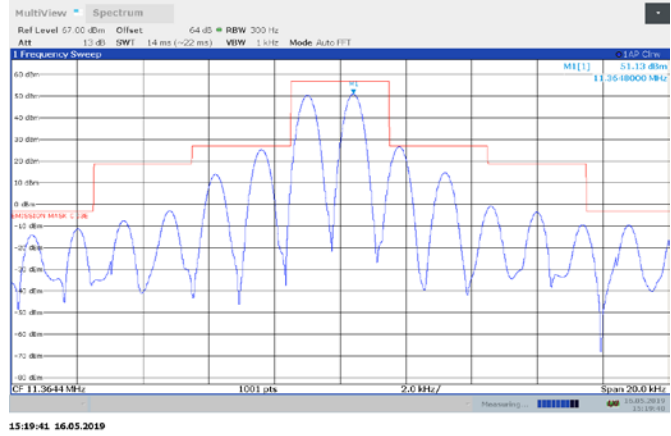


Figure 8.3-2: Mid channel Mask 500W J3E

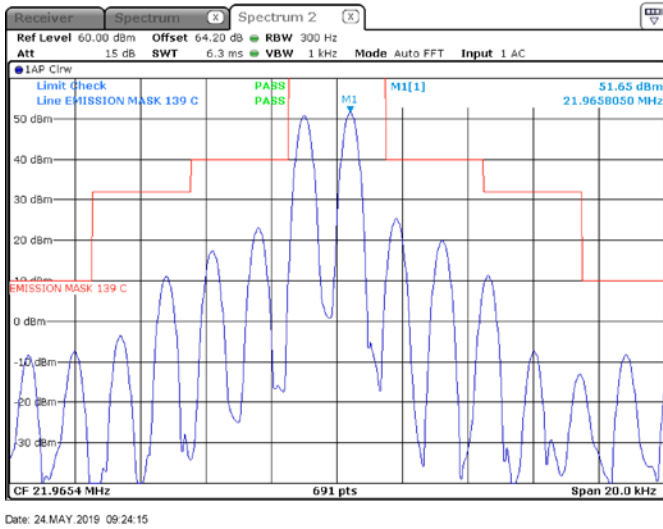


Figure 8.3-3: High channel Mask 500W J3E

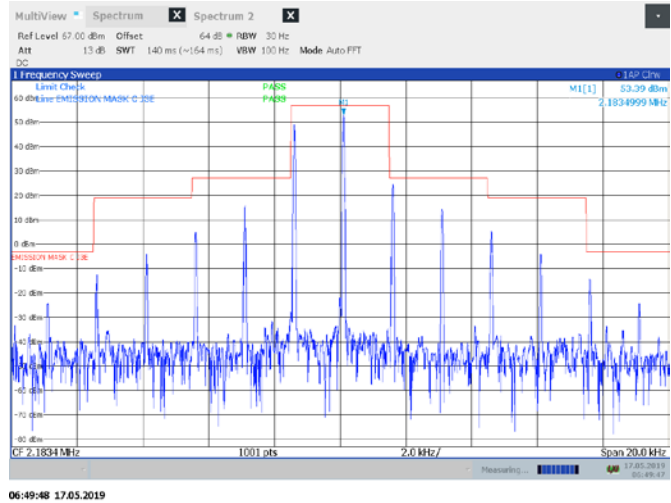


Figure 8.3-4: Low channel Mask 500W 1500 H3E

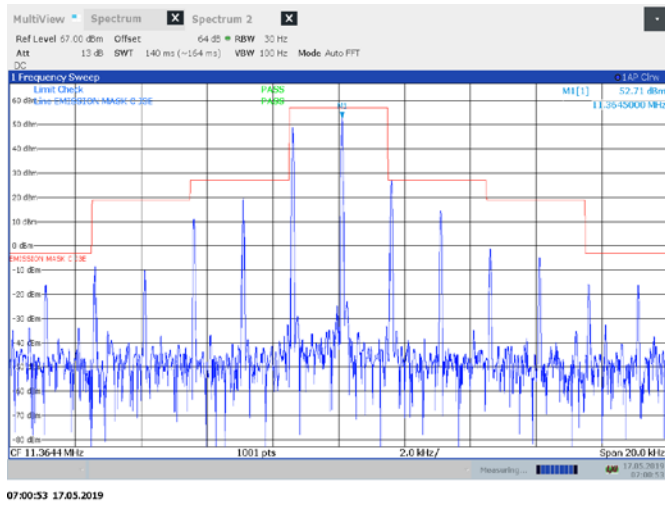


Figure 8.3-5: Mid channel Mask 500W H3E

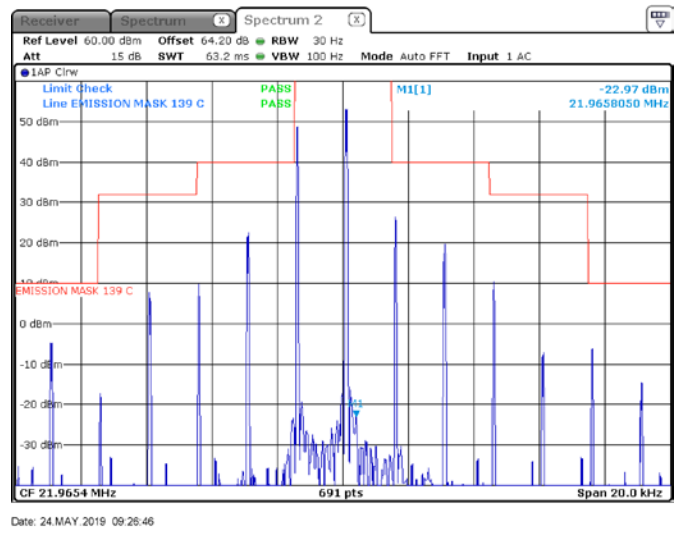


Figure 8.3-6: High channel Mask 500W H3E

8.4 FCC 87.141(d) Modulation requirements

8.4.1 Definitions and limits

(d) Single sideband transmitters must be able to operate in the following modes:

| Carrier mode | Level N(dB) of the carrier with respect to peak envelope power |
|--------------------------|---|
| Full carrier (H3E) | $0 > N > -6$ |
| Suppressed carrier (J3E) | Aeronautical stations $N < -40$. |

8.4.2 Test summary

| | | | |
|---------------|---------------------|-------------------|----------|
| Test date | May 17, 2019 | Temperature | 23 °C |
| Test engineer | Fahar Abdul Sukkoor | Air pressure | 980 mbar |
| Verdict | Pass | Relative humidity | 36 % |

8.4.3 Observations, settings and special notes

Spectrum analyzer settings:

| | |
|----------------------|----------|
| Detector mode | Peak |
| Resolution bandwidth | 30 Hz |
| Video bandwidth | RBW × 3 |
| Trace mode | Max Hold |

8.4.4 Test data

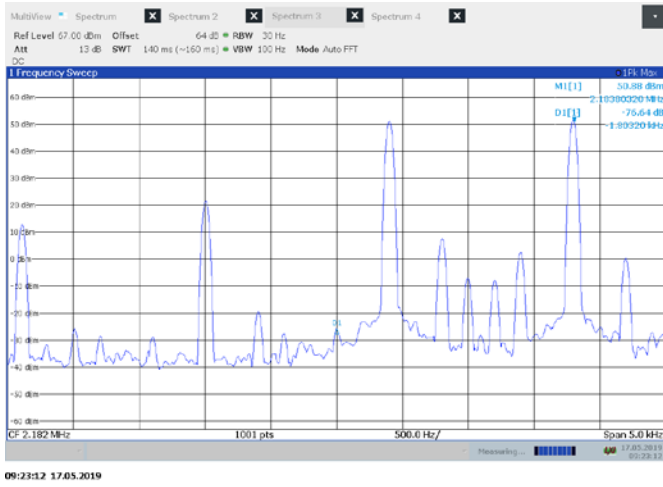


Figure 8.4-1: Low channel 500W J3E 40 dB

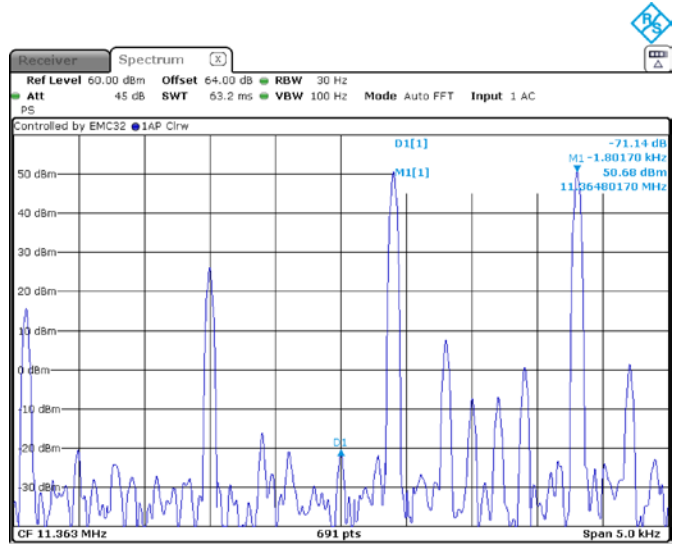


Figure 8.4-2: Mid channel 500W J3Ez 40 dB

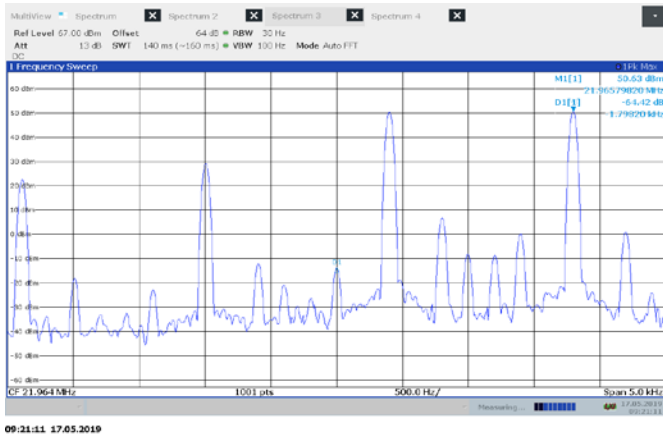


Figure 8.4-3: High channel 500W J3E 40 dB

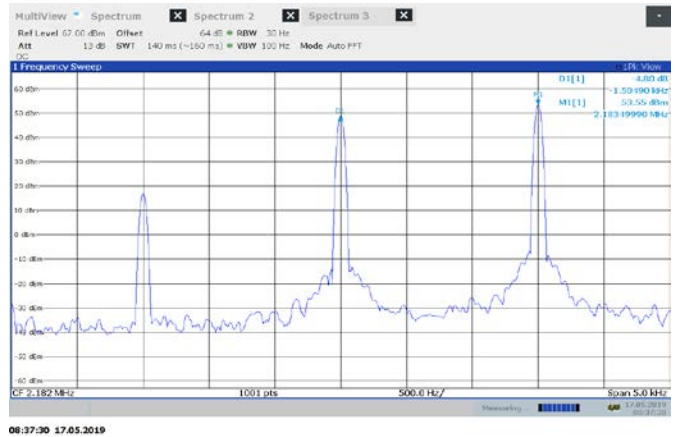


Figure 8.4-4: Low channel 500W H3E 6dB

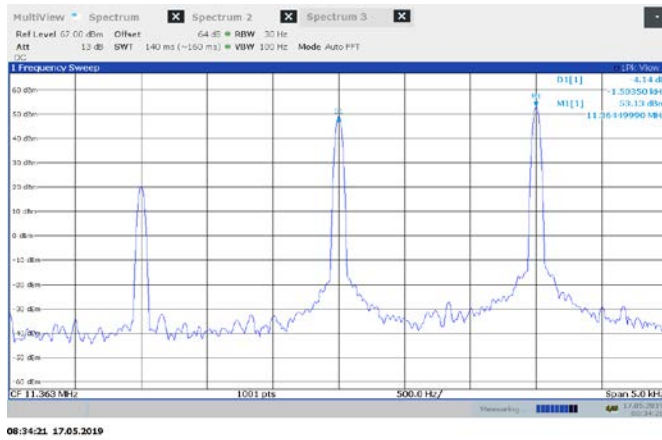


Figure 8.4-5: Mid channel 500W H3E 6 dB

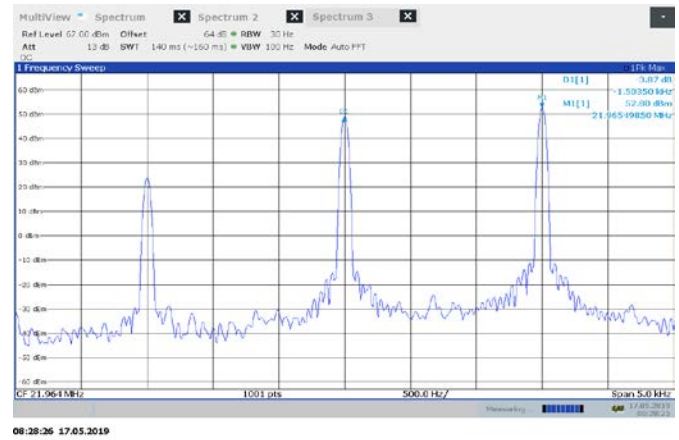


Figure 8.4-6: High channel 500W H3E 6 dB

8.5 FCC 87.139(c) Emission limits, conducted method

8.5.1 Definitions and limits

(c) For aircraft station transmitters first installed after February 1, 1983, and for aeronautical station transmitters in use after February 1, 1983, and using H2B, H3E, J3E, J7B or J9W, the peak envelope power of any emissions must be attenuated below the peak envelope power of the transmitter (pX) as follows:

- 4) When the frequency is removed from the assigned frequency by more than 50 percent up to and including 150 percent of the authorized bandwidth of 3.0 kHz, the attenuation must be at least 30 dB.
- 5) When the frequency is removed from the assigned frequency by more than 150 percent up to and including 250 percent of the authorized bandwidth of 3.0 kHz, the attenuation must be at least 38 dB.
- 6) When the frequency is removed from the assigned frequency by more than 250 percent of the authorized bandwidth of 3.0 kHz for aircraft transmitters the attenuation must be at least 43 dB. For aeronautical station transmitters with transmitter power up to and including 50 watts the attenuation must be at least $43 + 10 \log_{10} pX$ dB and with transmitter power more than 50 watts the attenuation must be at least 60 dB.

8.5.2 Test summary

| | | | |
|---------------|---------------------|-------------------|----------|
| Test date | May 17, 2019 | Temperature | 23 °C |
| Test engineer | Fahar Abdul Sukkoor | Air pressure | 980 mbar |
| Verdict | Pass | Relative humidity | 36 % |

8.5.3 Observations, settings and special notes

Spectrum analyzer settings:

| | |
|----------------------|----------|
| Detector mode | Peak |
| Resolution bandwidth | 10 kHz |
| Video bandwidth | RBW × 3 |
| Trace mode | Max Hold |

8.5.4 Test data

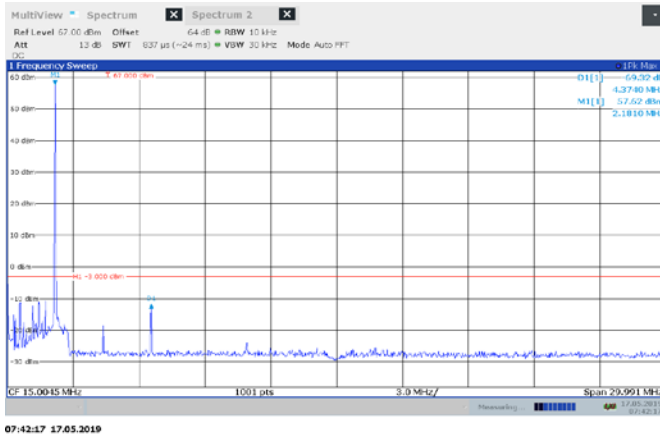


Figure 8.5-1: Low channel Conducted Spurious 500W H3E

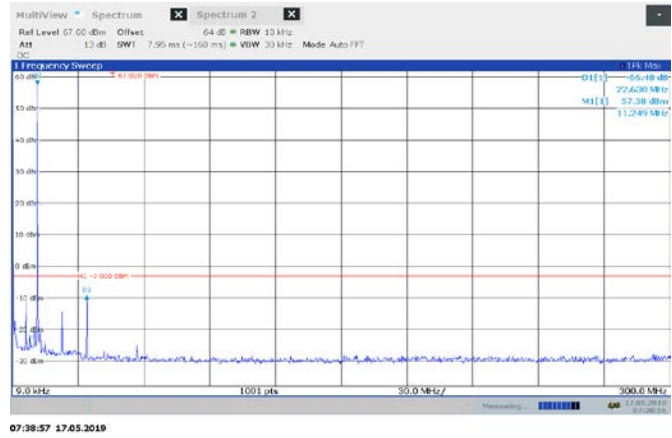


Figure 8.5-2: Mid channel Conducted Spurious 500W H3E

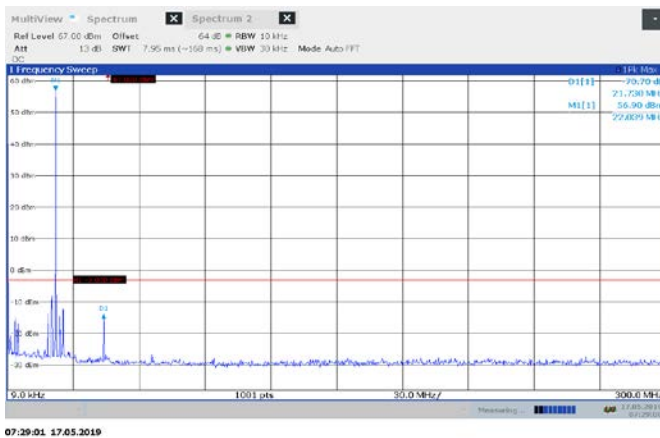


Figure 8.5-3: High channel Conducted Spurious 500W H3E

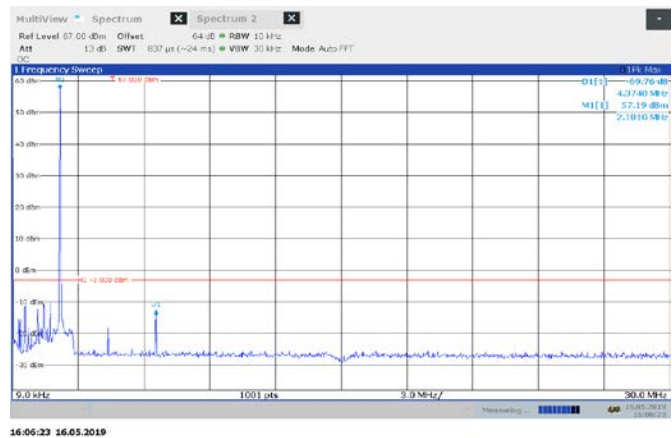


Figure 8.5-4: Low channel Conducted Spurious 500W J3E

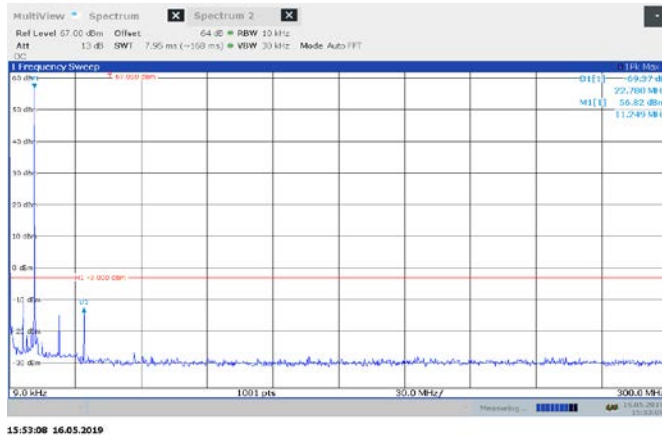


Figure 8.5-5: Mid channel Conducted Spurious 500W J3E

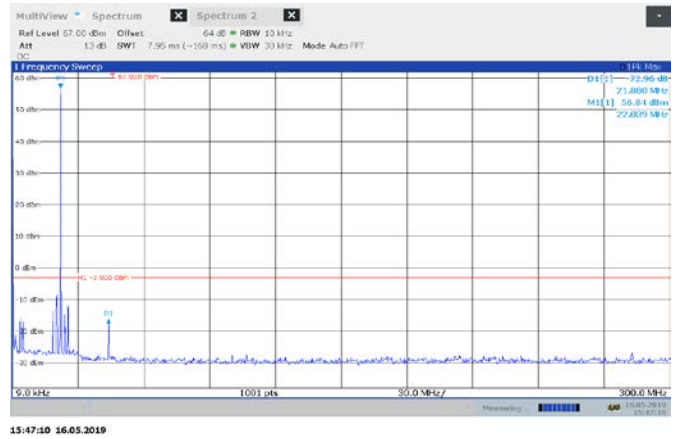


Figure 8.5-6: High channel Conducted Spurious 500W J3E

8.6 FCC 87.139(c) Emission limits, radiated method

8.6.1 Definitions and limits

- (1) When the frequency is removed from the assigned frequency by more than 50 percent up to and including 150 percent of the authorized bandwidth of 3.0 kHz, the attenuation must be at least 30 dB.
- (2) When the frequency is removed from the assigned frequency by more than 150 percent up to and including 250 percent of the authorized bandwidth of 3.0 kHz, the attenuation must be at least 38 dB.
- (c) For aircraft station transmitters first installed after February 1, 1983, and for aeronautical station transmitters in use after February 1, 1983, and using H2B, H3E, J3E, J7B or J9W, the peak envelope power of any emissions must be attenuated below the peak envelope power of the transmitter (pX) as follows:
- (3) When the frequency is removed from the assigned frequency by more than 250 percent of the authorized bandwidth of 3.0 kHz for aircraft transmitters the attenuation must be at least 43 dB. For aeronautical station transmitters with transmitter power up to and including 50 watts the attenuation must be at least $43 + 10 \log_{10} pX$ dB and with transmitter power more than 50 watts the attenuation must be at least 60 dB.

8.6.2 Test summary

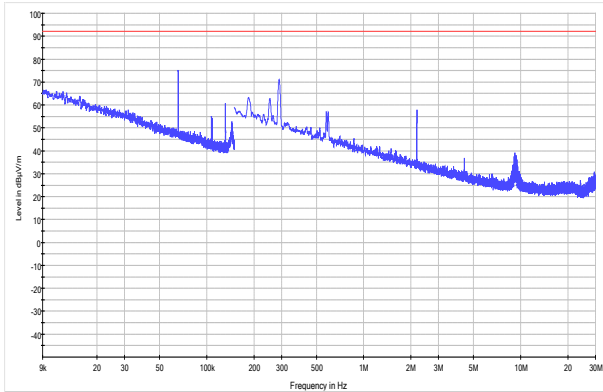
| | | | |
|---------------|---------------------|-------------------|----------|
| Test date | May 21, 2019 | Temperature | 25 °C |
| Test engineer | Fahar Abdul Sukkoor | Air pressure | 985 mbar |
| Verdict | Pass | Relative humidity | 31 % |

8.6.3 Observations, settings and special notes

Spectrum analyzer settings:

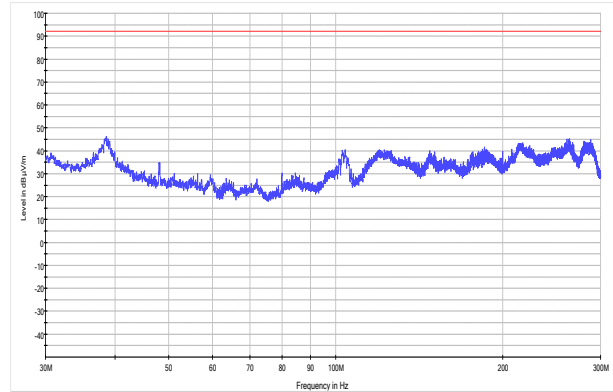
| | |
|----------------------|----------|
| Detector mode | Peak |
| Resolution bandwidth | 10 kHz |
| Video bandwidth | RBW × 3 |
| Trace mode | Max Hold |

8.6.4 Test data



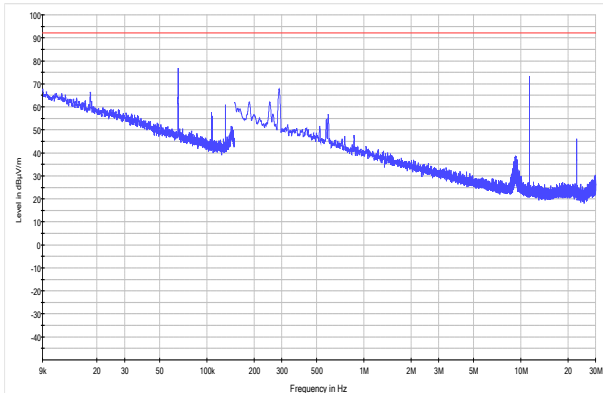
low channel 500 W 9 kHz-30 MHz spurious emission
PKC_MAXH
FCC 87.139(c) 3 Field Strength Limit Line

Figure 8.6-1: Low channel Radiated Spurious 500W



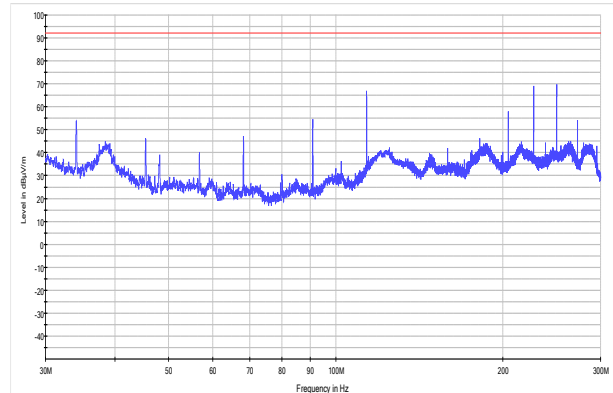
Low channel 500 W 400 Hz and 1800 Hz
FCC 87.139(c) 3 Field Strength Limit Line
PKC_MAXH

Figure 8.6-2: : Low channel Radiated Spurious 500W



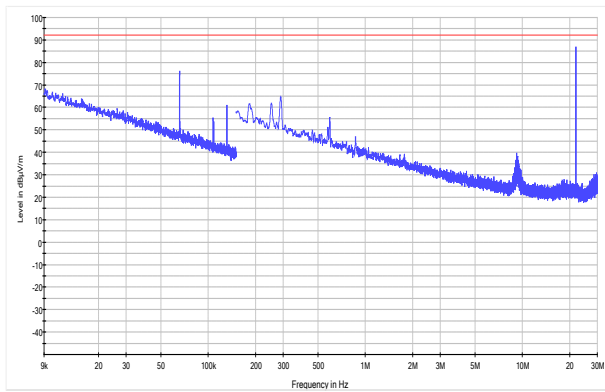
mid channel 500 W 9 kHz-30 MHz spurious emission
PKC_MAXH
FCC 87.139(c) 3 Field Strength Limit Line

Figure 8.6-3: Mid channel Radiated Spurious 500 W



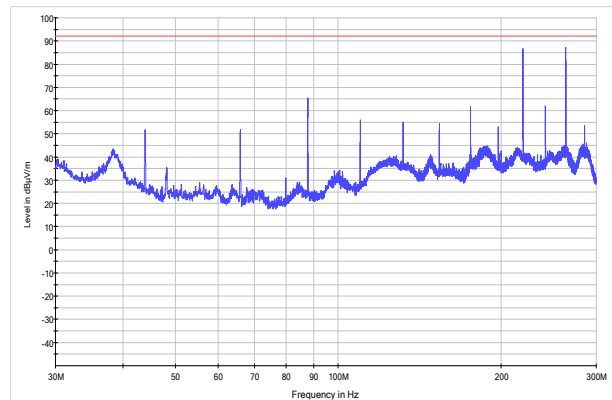
Mid channel 500 W 400 Hz and 1800 Hz
FCC 87.139(c) 3 Field Strength Limit Line
PKC_MAXH

Figure 8.6-4: Mid channel Radiated Spurious 500W



high channel 500 W 9 kHz-30 MHz spurious emission
 PK+ MAXH
 FCC 87.139.c.3 Field Strength Limit Line

Figure 8.6-5: High channel Radiated Spurious 500W



High channel 500 W 400 Hz and 1800 Hz
 FCC 87.139.c.3 Field Strength Limit Line
 PK+ MAXH

Figure 8.6-6: High channel Radiated Spurious 500W

8.7 FCC 87.133 Frequency stability

8.7.1 Definitions and limits

(c) For single-sideband transmitters, the tolerance is:
 (1) All aeronautical stations on land: 10 Hz.

8.7.2 Test summary

| | | | |
|---------------|---------------------|-------------------|----------|
| Test date | May 22, 2019 | Temperature | 23 °C |
| Test engineer | Fahar Abdul Sukkoor | Air pressure | 980 mbar |
| Verdict | Pass | Relative humidity | 35 % |

8.7.3 Observations, settings and special notes

1500 Hz tone was used during testing

8.7.4 Test data

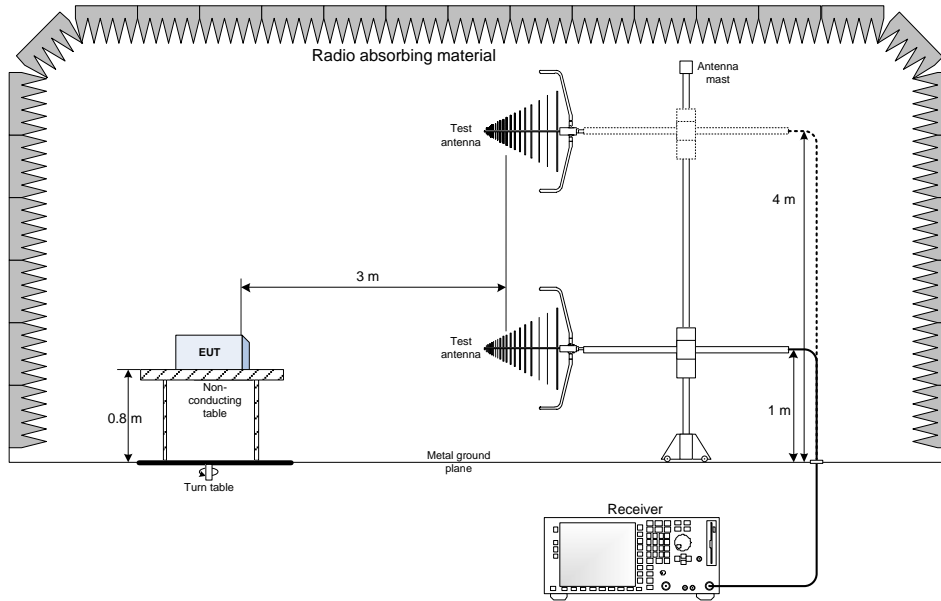
Table 8.7-1: Frequency drift measurement FCC Part 87 results 500 watts

| Test conditions | Frequency, Hz | Drift, Hz | Limit ±10 Hz |
|-----------------|---------------|-----------|--------------|
| +50 °C, Nominal | 11362999 | -1 | ±10 Hz |
| +40 °C, Nominal | 11363000 | 0 | ±10 Hz |
| +30 °C, Nominal | 11363000 | 0 | ±10 Hz |
| +20 °C, +15 % | 11363001 | +1 | ±10 Hz |
| +20 °C, Nominal | 11363000 | - | Reference |
| +20 °C, -15 % | 11363001 | +1 | ±10 Hz |
| +10 °C, Nominal | 11363002 | +2 | ±10 Hz |
| 0 °C, Nominal | 11363002 | +2 | ±10 Hz |
| -10 °C, Nominal | 11363002 | +2 | ±10 Hz |
| -20 °C, Nominal | 11363003 | +3 | ±10 Hz |
| -30 °C, Nominal | 11363003 | +3 | ±10 Hz |

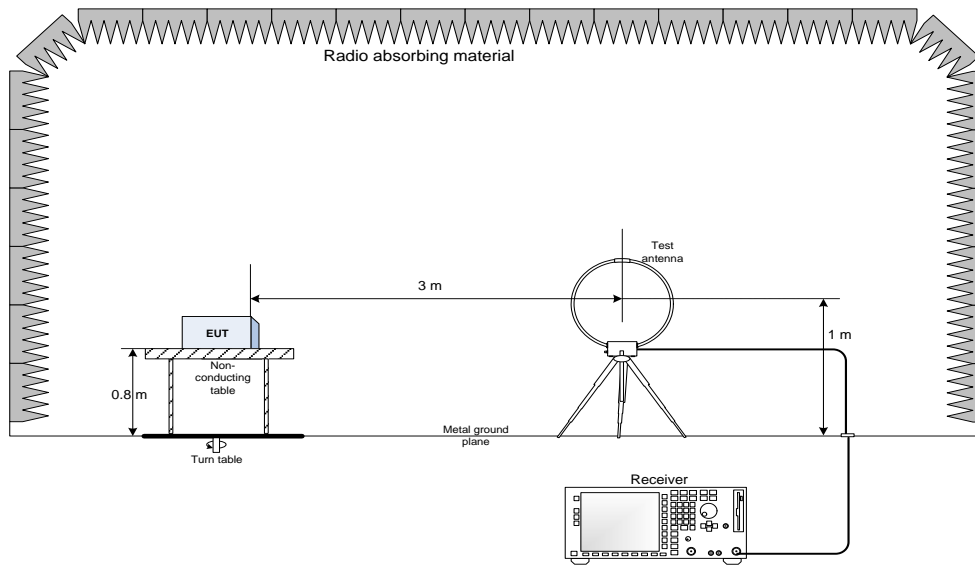
Notes; 1000 W amp is used

Section 9. Block diagrams of test set-ups

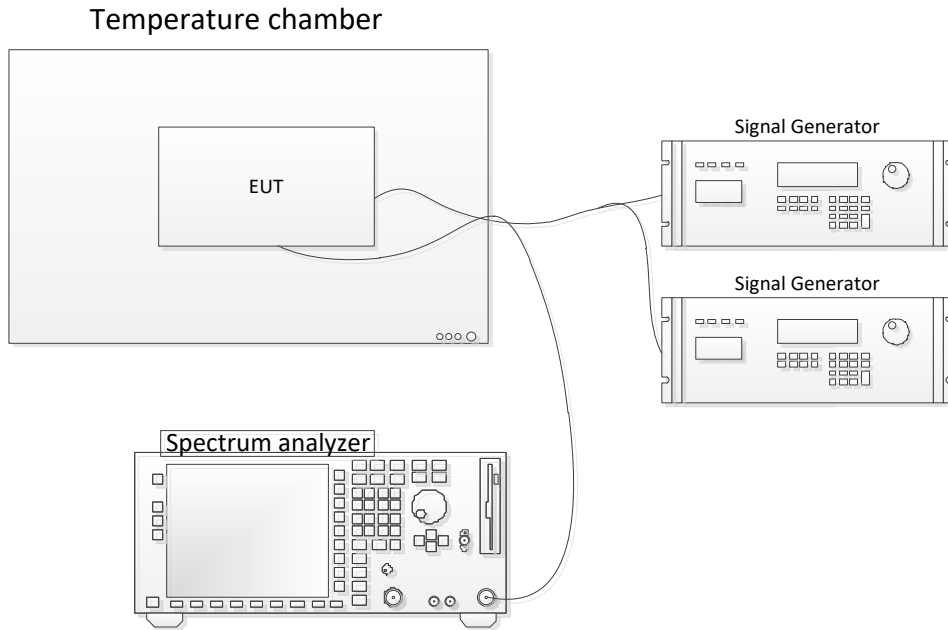
9.1 Radiated emissions set-up for frequencies from 30 MHz -1 GHz



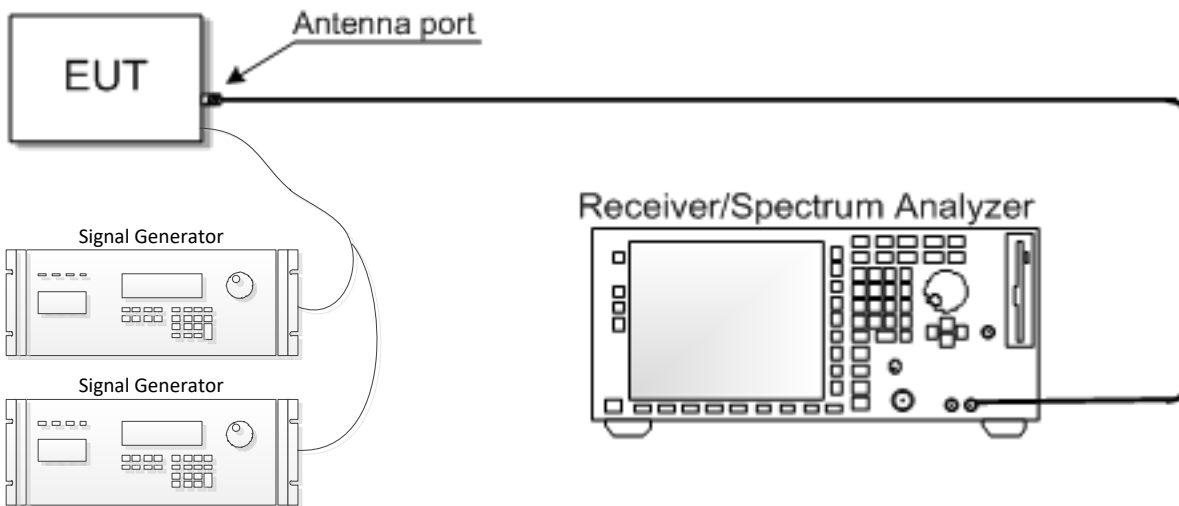
9.2 Radiated emissions set-up for frequencies below 30 MHz



9.3 Frequency stability



9.4 Power limits, Modulation Characteristics, Emission limits, emission mask, bandwidth, Emission limits, conducted method



-End of test report-