



Exhibit 5: EMI Test Report

**External Radio Frequency
Power Amplifier OM2000A+**

Model OM2000A+

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EMI Test Report

for OM Power

Product Name: OM2000A+

Regulation: FCC, Part 97 Sub Part D

Date of test: April 2014

Data verified and report issued: August 2016

Tested by: Eng. Jozef Lang at OM Power s.r.o.

Test Method: FCC, Part 97.317 (a)(1)(2)(3), (b)(1)(2)
Part 97.307 (d), (e)

Responsible Parties

Manufacturer: OM Power - Slovakia

Applicant: Array Solutions

EUT Type/Model #: Linear Amplifier OM2000A+

Test Location: OM Power, Ltd. Laboratory

EUT Description

The EUT (OM2000A+) is a Linear Amplifier for Amateur Radio.

The tests were run in a typical configuration including the following support equipment:

- 1) H.F. Transceiver
- 2) Power Supply for transceiver

Reason for Test

Compliance with FCC Part 97

Changes made during test: none

Deviations from standard test method: none

Test Summary

The OM2000A+ complied with FCC Part 97 Subpart D, 97.307 and 97.317 Limits for Amateur Radio equipment when tested in the system configuration defined herein.

The following table indicates the measurement points and test results for the harmonic emissions to the tenth order:

The following table indicates the measurement results for OM2000A+ power amplifier.

Power Gain per 97.317				Spurious emissions per 97.307d			
Frequency f1, MHz	Input Power, W	Output Power, W	Amplifier Gain, dB	2f1, dBc	3f1, dBc	4f1, dBc	5-10f1, dBc worst case
1,850	72	1500	13,19	52,3	76,0	81,8	85,0
3,750	71	1500	13,25	51,7	77,2	82,7	85,0
7,150	71	1500	13,25	58,0	79,3	81,1	85,0
10,125	73	1500	13,13	58,7	81,7	83,3	85,0
14,175	71	1500	13,25	62,1	81,7	84,2	85,0
18,100	70	1500	13,31	62,9	78,3	80,1	85,0
21,225	64	1500	13,70	63,2	80,4	83,2	85,0
24,930	57	1500	14,20	56,8	73,7	81,5	80,0
28,500	51	1500	14,69	62,7	72,2	78,9	80,0
50,200	61	1500	13,91	71,9	74,7	78,3	85,0
Amplifier was not capable of operation on any frequency or frequencies between 26 and 28MHz as measured at the points below per 97.317-(a) (3).							
26,000	50	48,8	-0,11				
27,000	50	48,7	-0,11				
28,000	50	48,5	-0,13				

The following table indicates the measurement points and test results for the Inter Modulation Distortions to the 11-th order:

Inter-modulation in dB relative to 1500W PEP per 97.307(a)(b)					
Order:	D3	D5	D7	D9	D11 and higher
Freq. MHz	dB	dB	dB	dB	dB
14,200	-34,7	-46,2	-54,8	-62,3	-65

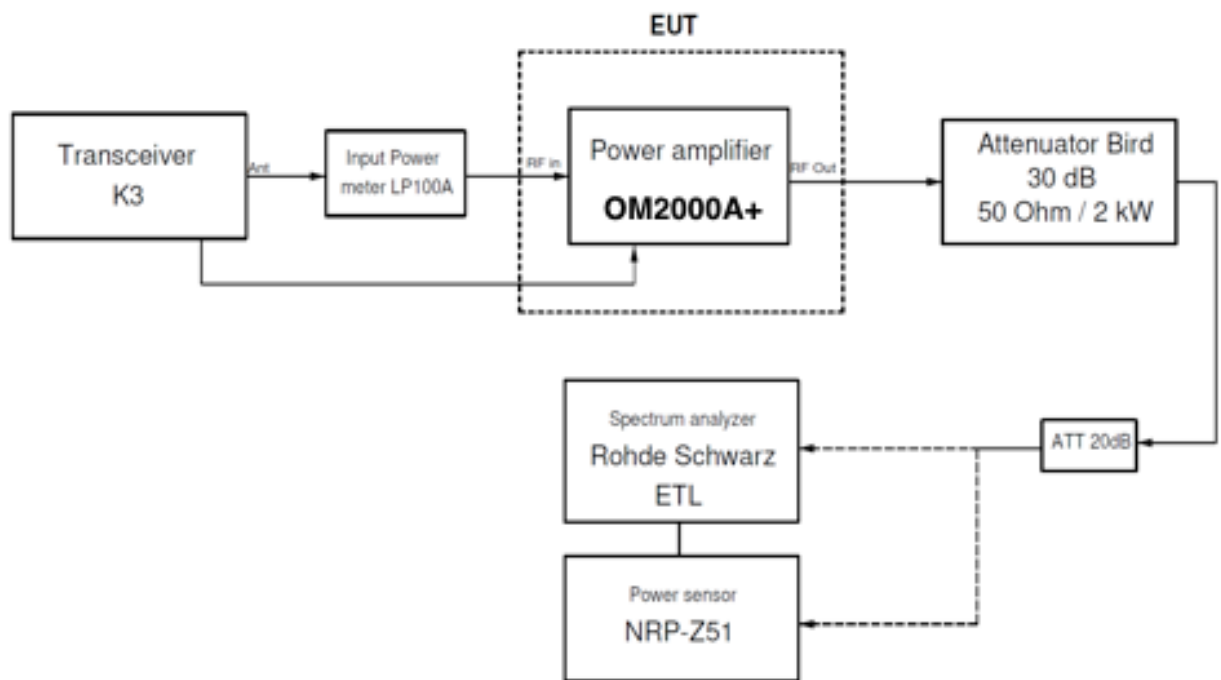


Fig. 1 Setup Block Diagram for **OM2000A+**

EUT Technical Data

Description: Linear Amplifier OM2000A+

Manuf/Model: OM Power Ltd. Slovakia / Model OM2000A+

Serial #: 1424

FCC Ident.: X8NOM2000A+

Power supply (Rated): 240 VAC 50/60Hz

Power supply (Tested): 240VAC 50Hz

Internal Options: None

Frequencies Amplified: Amateur radio bands from 1.8MHz through 54 MHz

Support Equipment Data

Description: HF TransceiverManufacturer / Model: ELECRAFT K3

Serial Number: 4191

Power: 230 VAC 50Hz

Internal Options: None

Frequencies Generated: from 1.8 MHz to 54 MHz

Cables Description

Transceiver Ant. to Input Power Meter - RG58/U, 1,5m length

Input Power Meter to EUT input - RG58/U, 30cm length

Output Power Meter to Dummy Load /Attenuator - RG213/U, 1,5m length

Dummy Load /Attenuator/out to Spectrum Analyzer - RG58/U, 1.5m length

EUT I/O Ports

OM2000A+

Key-In (Transmit/Receive Relay Control)

Key-Out (Not Connected)

RF INPUT 50 Ohm

RF OUTPUT A1 to A3 - 50 Ohm

Mains AC Input 240V 50/60Hz

Test Equipment List

#	Equipment type	Manufacturer	Model #	Serial #	Used
1	Spectrum analyzer	Rohde Schwarz	ETL	102517	Yes
2	2kW 30dB Attenuator	BIRD	8329-300	263	Yes
3	20dB Attenuator	Spinner	BN 52 86 38		Yes
4	Power sensor	Rohde Schwarz	NRP-Z51	103046	Yes
5	HF Transceiver	Elecraft	K3	4191	Yes
6	Two-Tone Generator	Elecraft	build in K3		Yes