

LABORATORY TEST REPORT

RADIO PERFORMANCE MEASUREMENTS

for the

TBCK4D Base Station Transceiver

Tested in accordance with:

FCC 47 CFR Part 90

RSS-119 Issue 12
RSS-Gen Issue 4

Report Revision: 1

Issue Date: 07-July-2016

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Test Technician

CHECKED & APPROVED BY: M. C. James

Laboratory Technical Manager



OATS FCC LISTING REGISTRATION: 837095

All tests reported herein have been performed in accordance with the laboratory's scope of accreditation.

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REVISION

Date	Revision	Comments
07-July-2016	1	Initial test report

INTRODUCTION

Type approval testing of the BASE STATION, 50 Watt, TBCK4D transceiver in order to demonstrate continued compliance with FCC 47 Part 90, and RSS-119 Issue 12 & RSS-Gen Issue 4, after including Analogue FM and FFSK modulation options.
The original test report is TARF 3486

Type Approval Testing of the TBCK4D

Frequency ranges: TX: 762 → 776 MHz, 850 → 870 MHz and RX: 792 → 824 MHz

in accordance with:

FCC 47 CFR Part 90
RSS-119 Issue 12 & RSS-Gen Issue 4

REPORT PREPARED FOR

Tait Ltd
245 Wooldridge Road
Harewood
Christchurch 8051
New Zealand

DESCRIPTION OF SAMPLE

Manufacturer Tait Limited
Equipment: BASE STATION Transceiver
Type: TBCK4D
Quantity: 1

TBCK4D Base Station Transceiver consisting of:

FUNCTIONAL DESCRIPTION	PRODUCT DESIGNATION CODE	SERIAL NUMBER (S)
Reciter	T01-01105-NAAA	18240915
Power Amplifier	T01-01136-NAAA	18241649
Power Management Unit	TBA30A0-0100	18169121
Front Panel	T01-01110-CCAA	18174516

Quantity: 1 of each

HARDWARE & SOFTWARE Details:

FUNCTIONAL DESCRIPTION	FIRMWARE VERSION	HARDWARE VERSION
Reciter	dmr-2.15.00.0006	0.11
Power Amplifier	314	1
Power Management Unit	316	0.03
Front Panel	1.08.00.0002	0.04

TEST CONDITIONS

All testing was performed between 22 June → 06 July-2016, and under the following conditions:

Ambient temperature: 15°C → 30°C

Relative Humidity: 20% → 75%

Standard Test Voltage 120 V_{AC}

STATEMENT OF COMPLIANCE

We, TELTEST LABORATORIES of 558 Wairakei Road, Christchurch, New Zealand, declare under our sole responsibility that the product:

Equipment: BASE STATION Transceiver
Type: TBCK4D
Quantity: 1

FUNCTIONAL DESCRIPTION	PRODUCT DESIGNATION CODE	SERIAL NUMBER (S)
Reciter	T01-01105-NAAA	18240915
Power Amplifier	T01-01136-NAAA	18241649
Power Management Unit	TBA30A0-0100	18169121
Front Panel	T01-01110-CCAA	18174516

FUNCTIONAL DESCRIPTION	FIRMWARE VERSION	HARDWARE VERSION
Reciter	dmr-2.15.00.0006	0.11
Power Amplifier	314	1
Power Management Unit	316	0.03
Front Panel	1.08.00.0002	0.04

to which this declaration relates, is in conformity with the following standards:

FCC 47 CFR Part 90

RSS-119 Issue 12 & RSS-Gen Issue 4

Signature: _____

Mike James
Technical Manager

Date: _____

MODULATION TYPES, NECESSARY BANDWIDTH & EMISSION DESIGNATORS

MODULATION TYPES:

F3E	FM Analogue Voice	-	-
F2D	Fast Frequency Shift Keying	1200 symbols/sec	1200 bps

CHANNEL SPACINGS: 12.5 kHz

EMISSION DESIGNATORS:

Analogue Voice	11K0F3E
FFSK	7K60F2D

Equation: $B_n = 2M + 2Dk$

(M is highest modulating frequency; D is peak allowable deviation; k is a constant of 1 for FM)

Analogue Voice 12.5 kHz Channel Spacing

Necessary bandwidth	Emission Designator
M = 3.0 kHz	11K0F3E
D = 2.5 kHz	F3E represents an FM voice transmission
$B_n = (2 \times 3.0) + (2 \times 2.5) \times 1$	
= 11.0 kHz	

Fast Frequency Shift Keying (FFSK – 1200 bps) 12.5 kHz Channel Spacing

Necessary bandwidth	Emission Designator
M = 1.8 kHz	7K60F2D
D = 2.0 kHz	F2D represents a FM data transmission with the use of a modulating sub carrier
$B_n = (2 \times 1.8) + (2 \times 2.0) \times 1$	
= 7.6 kHz	

TEST RESULTS

ADJACENT CHANNEL POWER RATIO

SPECIFICATION: FCC 47 CFR 90.543

MEASUREMENT PROCEDURE:

1. Refer Annex A for equipment set up.
2. The transmitter is modulated with the standard test pattern for digital modulation, and in accordance with TIA/EIA 603D 2.2.14 for analogue voice.
3. The test is performed in accordance with 47 CFR 90.543

LIMIT CLAUSE: FCC 47 CFR 90.543

MEASUREMENT RESULTS:

ANALOGUE

Tx FREQUENCY: 770.1 MHz 50 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc) Mobile Limits
9.375 kHz	6.25 kHz	-48.25	-48.87	-40
15.625 kHz	6.25 kHz	-76.93	-76.65	-60
21.875 kHz	6.25 kHz	-85.90	-85.89	-60
37.5 kHz	25 kHz	-82.42	-82.69	-60
62.5 kHz	25 kHz	-84.26	-84.60	-65
87.5 kHz	25 kHz	-85.46	-85.54	-65
150 kHz	100 kHz	-78.80	-78.84	-65
250 kHz	100 kHz	-82.14	-82.18	-65
350 kHz	100 kHz	-85.43	-85.45	-65
>400 kHz to 12 MHz	30 kHz (swept)	-88.97		-80
12 MHz to paired receive band	30 kHz (swept)	< -97.89		-80
In the paired receive band	30 kHz (swept)	-110.68		-85

ADJACENT CHANNEL POWER RATIO

SPECIFICATION: FCC 47 CFR 90.543

FFSK

Tx FREQUENCY: 770.1 MHz 50 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc) Mobile Limits
9.375 kHz	6.25 kHz	-50.06	-50.39	-40
15.625 kHz	6.25 kHz	-77.09	-76.85	-60
21.875 kHz	6.25 kHz	-86.32	-86.30	-60
37.5 kHz	25 kHz	-82.62	-82.90	-60
62.5 kHz	25 kHz	-84.34	-84.70	-65
87.5 kHz	25 kHz	-85.72	-85.82	-65
150 kHz	100 kHz	-78.82	-78.92	-65
250 kHz	100 kHz	-82.19	-82.17	-65
350 kHz	100 kHz	-85.48	-85.46	-65
>400 kHz to 12 MHz	30 kHz (swept)	-90.45		-80
12 MHz to paired receive band	30 kHz (swept)	< -94.94		-80
In the paired receive band	30 kHz (swept)	-108.50		-85

ADJACENT CHANNEL POWER RATIO

SPECIFICATION: FCC 47 CFR 90.543

Analogue

Tx FREQUENCY: 774.9 MHz 50 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc) Mobile Limits
9.375 kHz	6.25 kHz	-48.07	-48.95	-40
15.625 kHz	6.25 kHz	-77.32	-77.07	-60
21.875 kHz	6.25 kHz	-85.62	-85.66	-60
37.5 kHz	25 kHz	-82.07	-82.33	-60
62.5 kHz	25 kHz	-83.38	-83.68	-65
87.5 kHz	25 kHz	-84.03	-84.12	-65
150 kHz	100 kHz	-78.75	-78.71	-65
250 kHz	100 kHz	-82.03	-82.09	-65
350 kHz	100 kHz	-85.15	-85.11	-65
>400 kHz to 12 MHz	30 kHz (swept)	-90.00		-80
12 MHz to paired receive band	30 kHz (swept)	< -93.95		-80
In the paired receive band	30 kHz (swept)	-109.88		-85

ADJACENT CHANNEL POWER RATIO

SPECIFICATION: FCC 47 CFR 90.543

FFSK

Tx FREQUENCY: 774.9 MHz 50 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc) Mobile Limits
9.375 kHz	6.25 kHz	-50.03	-50.46	-40
15.625 kHz	6.25 kHz	-77.19	-77.01	-60
21.875 kHz	6.25 kHz	-85.55	-85.61	-60
37.5 kHz	25 kHz	-82.13	-82.40	-60
62.5 kHz	25 kHz	-83.41	83.70	-65
87.5 kHz	25 kHz	-84.25	-84.33	-65
150 kHz	100 kHz	-78.67	-78.69	-65
250 kHz	100 kHz	-81.97	-82.02	-65
350 kHz	100 kHz	-85.12	-85.12	-65
>400 kHz to 12 MHz	30 kHz (swept)	-89.81		-80
12 MHz to paired receive band	30 kHz (swept)	< -94.90		-80
In the paired receive band	30 kHz (swept)	-109.56		-85

TRANSMITTER AUDIO FREQUENCY RESPONSE - PRE-EMPHASIS

SPECIFICATION: FCC 47 CFR 2.1047 (a)

GUIDE: TIA/EIA-603D 2.2.6

MEASUREMENT PROCEDURE:

1. Refer Annex A for Equipment set up.
2. An audio input tone of 1000 Hz was applied with the level set to obtain 20% of maximum deviation. This was used as the 0 dB reference point.
3. The AF was varied while the audio level was held constant.
4. The response in dB relative to 1000 Hz was measured.

MEASUREMENT RESULTS:

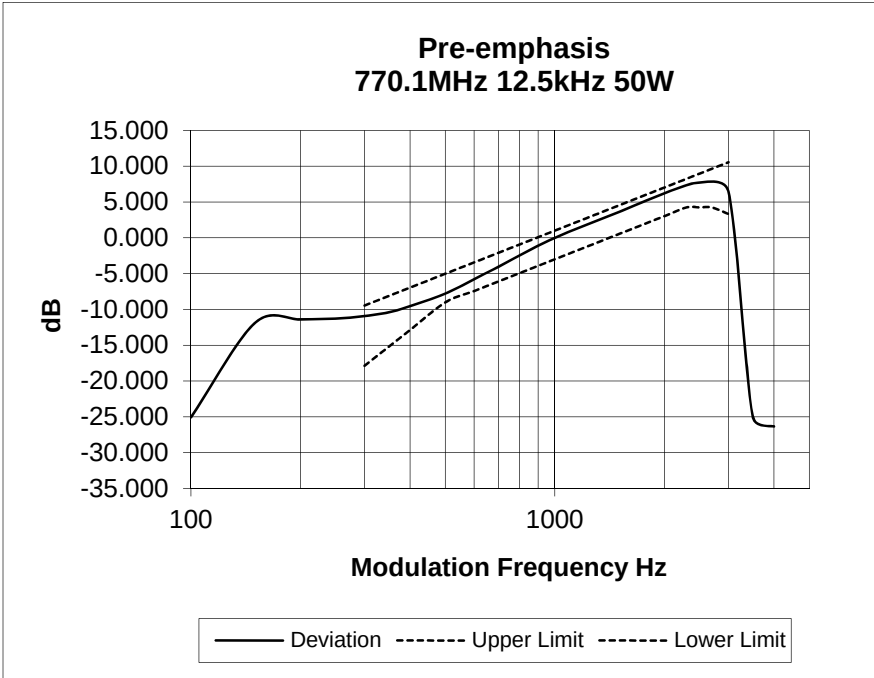
See the plots on the following pages for 12.5 kHz channel spacing tested at 50 W transmit power.

LIMIT CLAUSE: TIA/EIA-603D 3.2.6

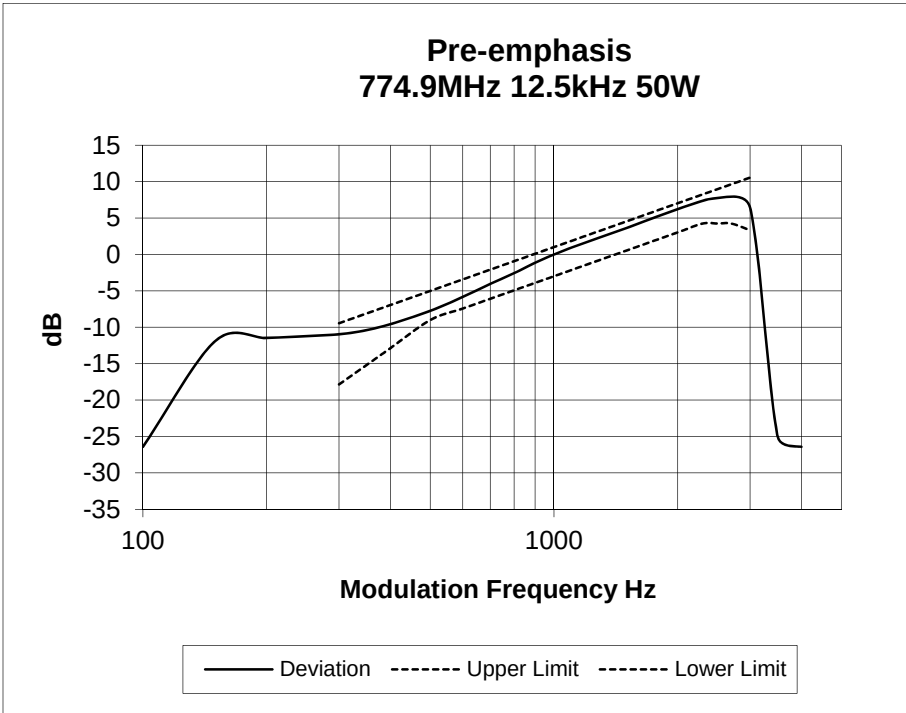
Transmitter Audio Frequency Response – Pre-emphasis

SPECIFICATION: FCC CFR 2.1047 (a)

Tx FREQUENCY: 770.1 MHz 12.5 kHz Channel Spacing



Tx FREQUENCY: 774.9 MHz 12.5 kHz Channel Spacing

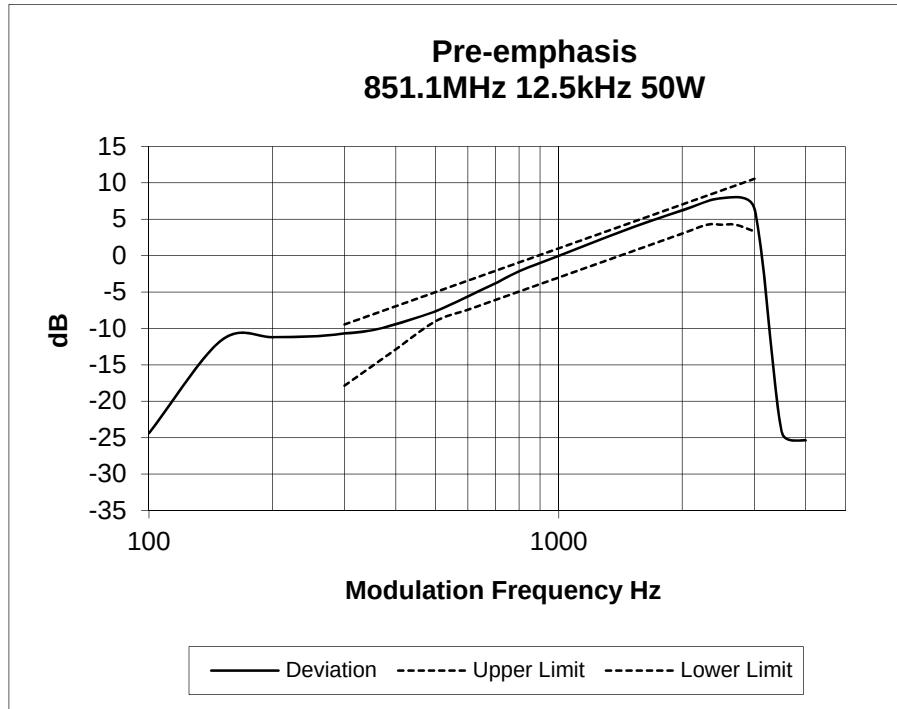


Transmitter Audio Frequency Response – Pre-emphasis

SPECIFICATION: FCC CFR 2.1047 (a)

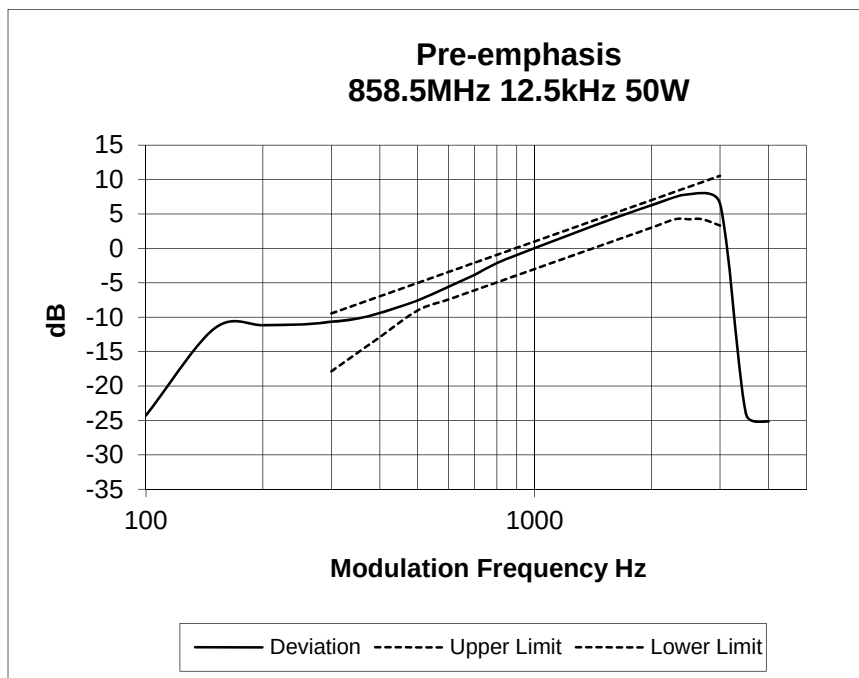
Tx FREQUENCY: 851.1 MHz

12.5 kHz Channel Spacing



Tx FREQUENCY: 858.5 MHz

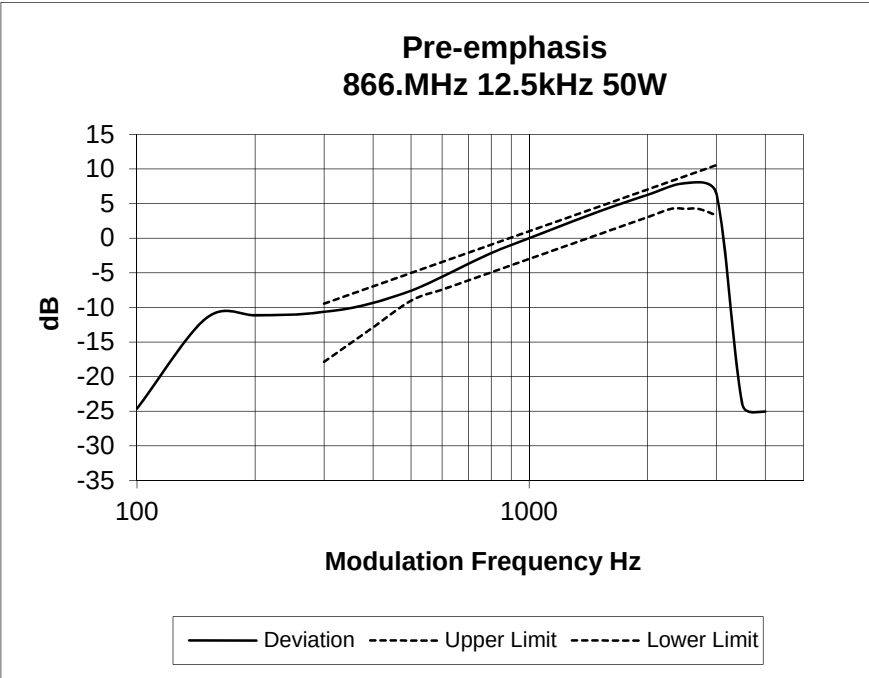
12.5 kHz Channel Spacing



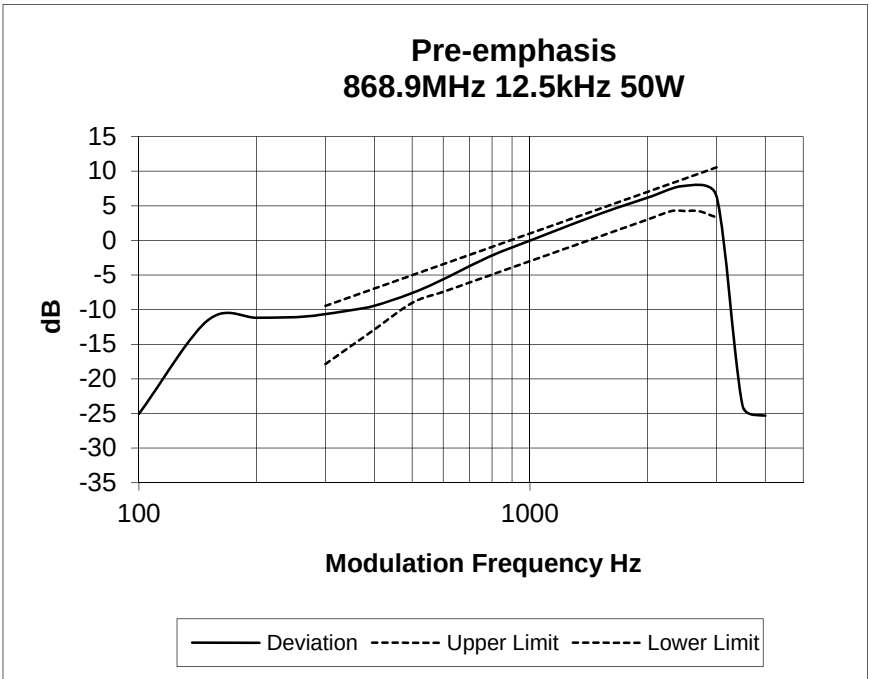
Transmitter Audio Frequency Response – Pre-emphasis

SPECIFICATION: FCC CFR 2.1047 (a)

Tx FREQUENCY: 866.0 MHz 12.5 kHz Channel Spacing



Tx FREQUENCY: 868.9 MHz 12.5 kHz Channel Spacing



TRANSMITTER MODULATION LIMITING

SPECIFICATION: FCC 47 CFR 2.1047 (b)

GUIDE: TIA/EIA-603D 2.2.3

MEASUREMENT PROCEDURE:

1. Refer Annex A for Equipment set up.
2. The modulation response was measured at three audio frequencies while varying the input level.
3. Measurements were made for both Positive and Negative Deviation.

MEASUREMENT RESULTS:

See the plots on the following pages for 12.5 kHz channel spacing.

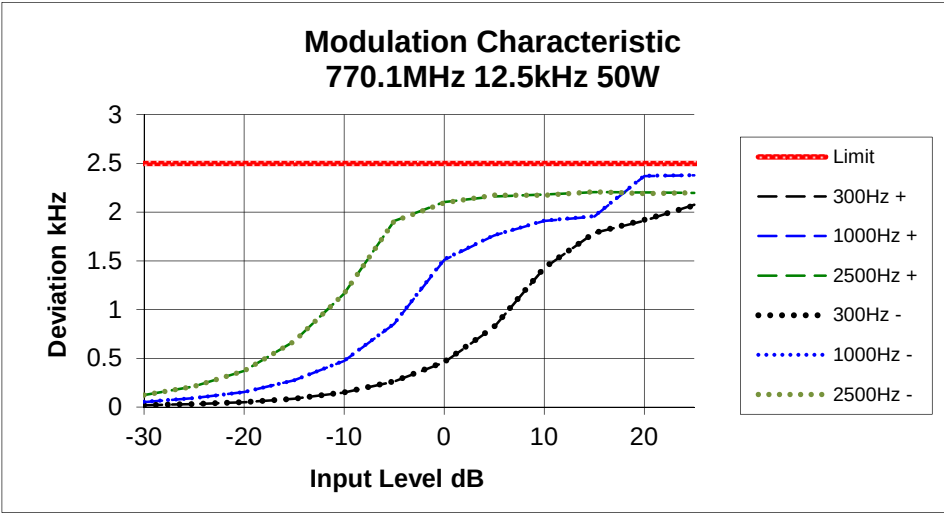
LIMIT CLAUSE: TIA/EIA-603D 1.3.4.4

Transmitter Modulation Limiting

SPECIFICATION: FCC CFR 2.1047 (b)

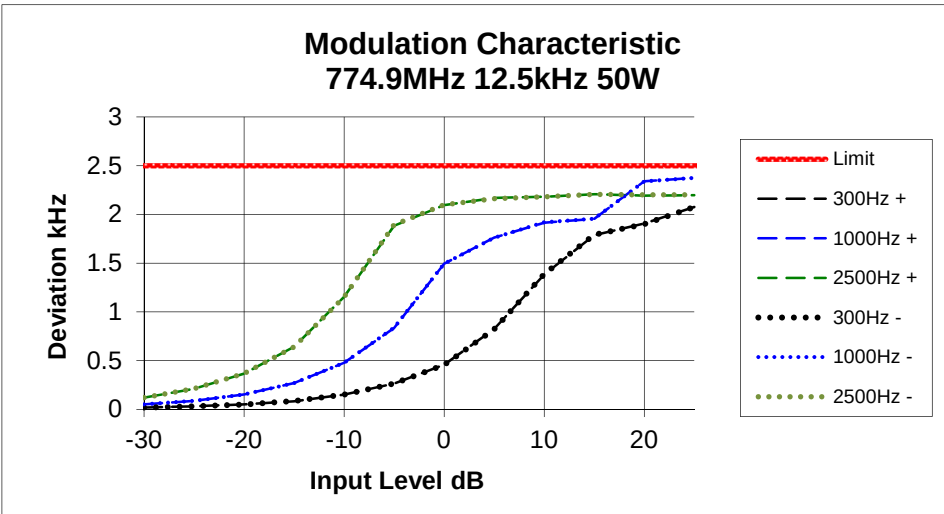
Tx FREQUENCY: 770.1 MHz

12.5 kHz Channel Spacing



Tx FREQUENCY: 774.9 MHz

12.5 kHz Channel Spacing

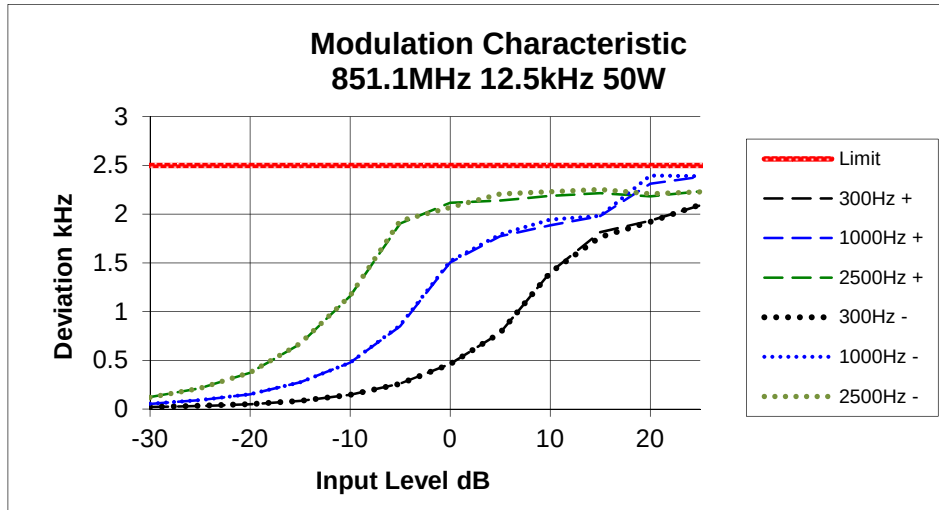


Transmitter Modulation Limiting

SPECIFICATION: FCC CFR 2.1047 (b)

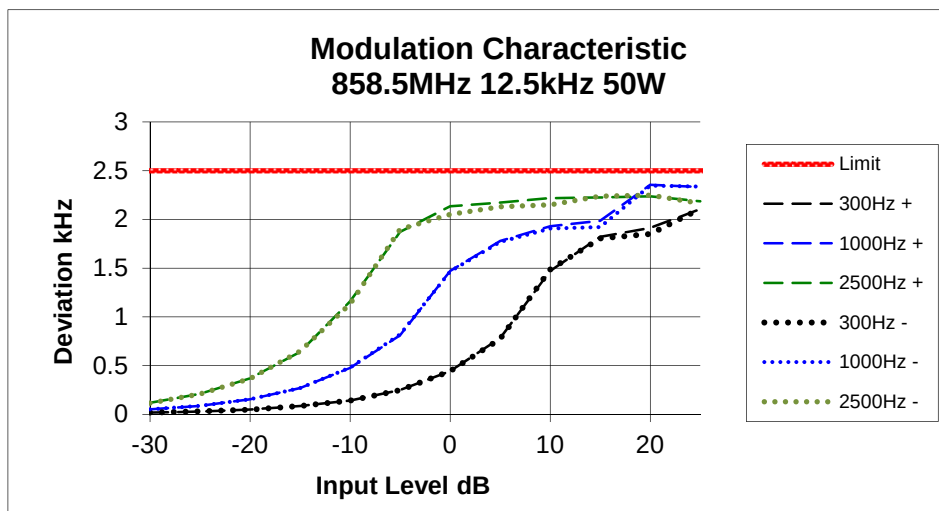
Tx FREQUENCY: 851.1 MHz

12.5 kHz Channel Spacing



Tx FREQUENCY: 858.5 MHz

12.5 kHz Channel Spacing

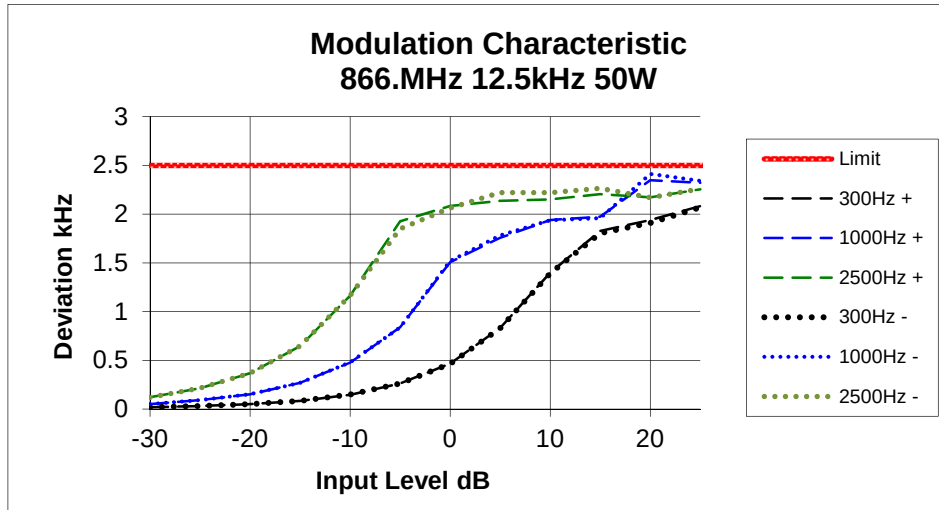


Transmitter Modulation Limiting

SPECIFICATION: FCC CFR 2.1047 (b)

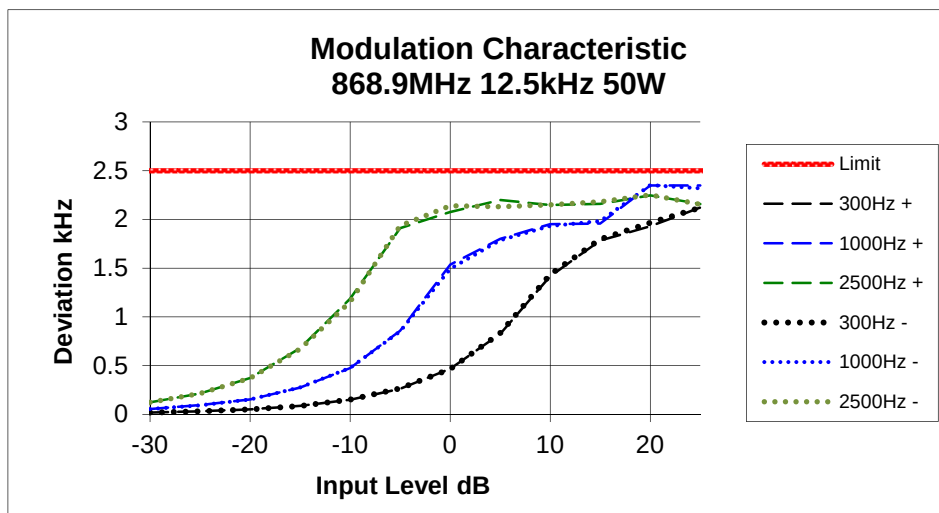
Tx FREQUENCY: 866.0 MHz

12.5 kHz Channel Spacing



Tx FREQUENCY: 868.9 MHz

12.5 kHz Channel Spacing



TRANSMITTER OCCUPIED BANDWIDTH AND SPECTRUM MASKS

SPECIFICATION: FCC 47 CFR 2.1049 (c)

RSS-119 5.5

GUIDE: TIA/EIA-603D 2.2.11 (Analog)
TIA-102.CAAA-C 2.2.5 (Digital)

MEASUREMENT PROCEDURE:

1. Refer Annex A for Equipment Set up.
The EUT was modulated with an internally generated pseudo random bit sequence at the appropriate Baud rates.
2. The Occupied Bandwidth was measured on the Spectrum Analyser, with bandwidth settings as follows.
Emission Mask D – Resolution Bandwidth = 100 Hz, Video Bandwidth = 1 kHz
Emission Mask B – Resolution Bandwidth = 300 Hz, Video Bandwidth = 3 kHz
Emission Mask G – Resolution Bandwidth = 300 Hz, Video Bandwidth = 3 kHz
Emission Mask H – Resolution Bandwidth = 300 Hz, Video Bandwidth = 3 kHz

MEASUREMENT RESULTS:

See the plots on the following pages for 12.5 kHz & 25.0 kHz channel spacings.

LIMIT CLAUSE: FCC 47 CFR 90.210

RSS-119 5.5

EMISSION MASKS APPLICATION TABLE

Standard	Analogue		FFSK	
	RSS-119 5.5	FCC CFR2.1049	RSS-119 5.5	FCC CFR2.1049
851.1MHz	D	B	D	H
858.5MHz	D	-	D	-
866.0MHz	D	B	D	G
868.9MHz	D	-	D	-

DATA SPEED

FFSK

12.5 kHz Channel Spacing

1200 bps

Occupied Bandwidth and Spectrum Masks

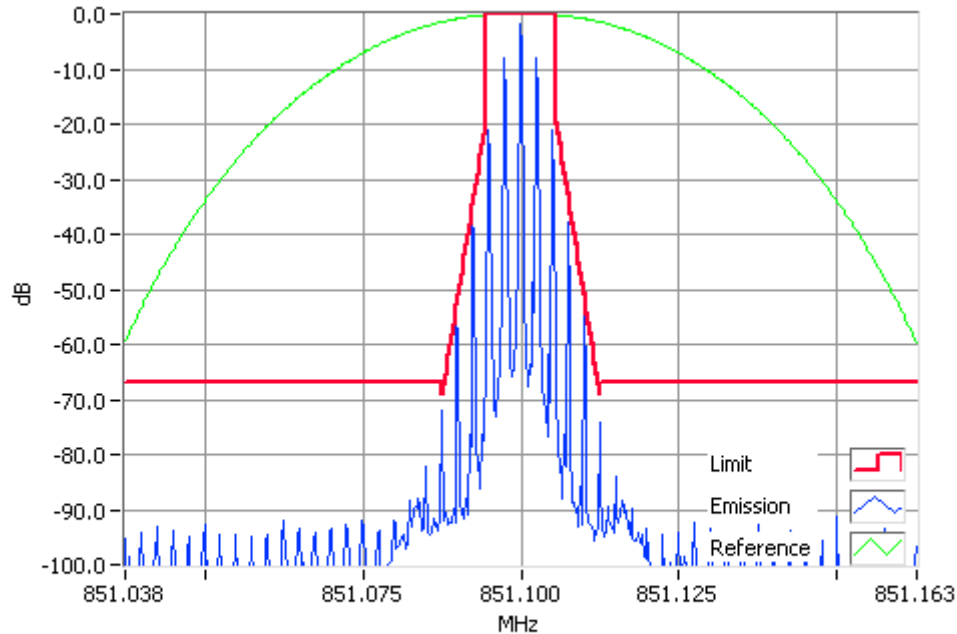
SPECIFICATION:

RSS-119 5.5

Tx FREQUENCY: 851.1 MHz

50 W

12.5 kHz Channel Spacing

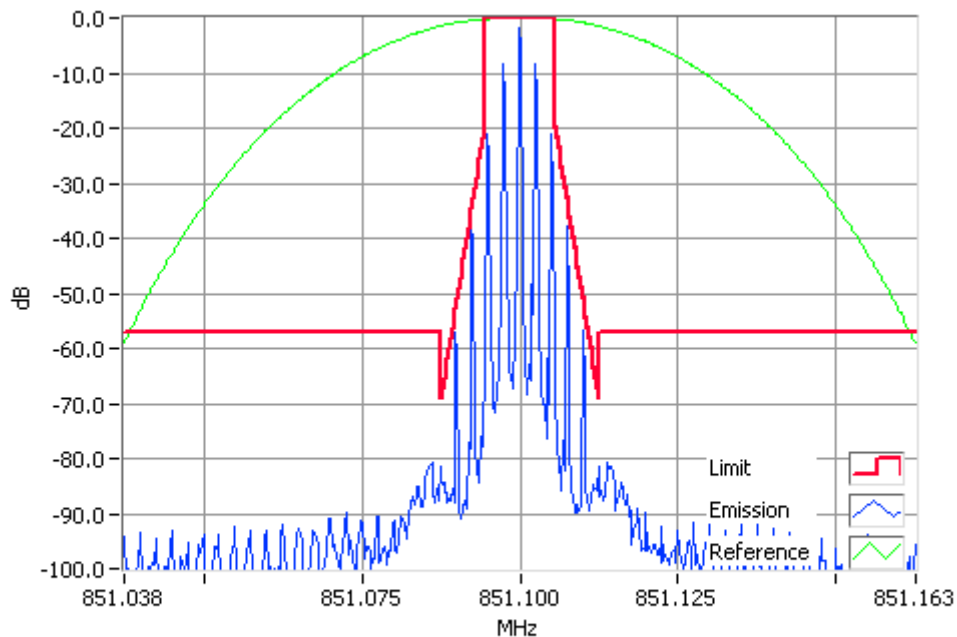


Analogue Modulation 851.1000MHz Mask D 50W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY: 851.1 MHz

5 W

12.5 kHz Channel Spacing



Analogue Modulation 851.1000MHz Mask D 5W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Occupied Bandwidth and Spectrum Masks

SPECIFICATION:

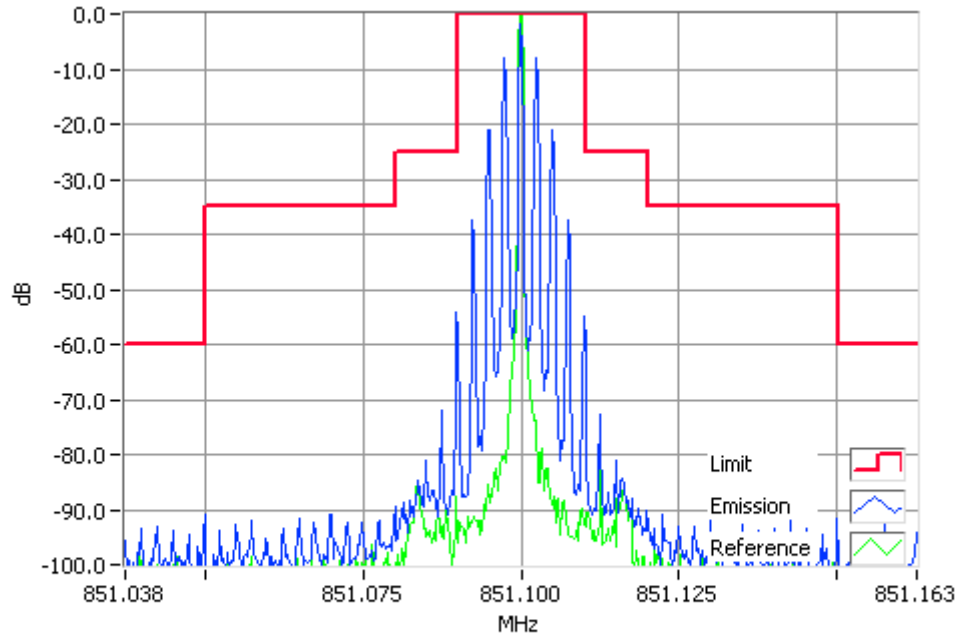
FCC CFR 2.1049 (c)

Tx FREQUENCY:

851.1 MHz

50 W

12.5 kHz Channel Spacing



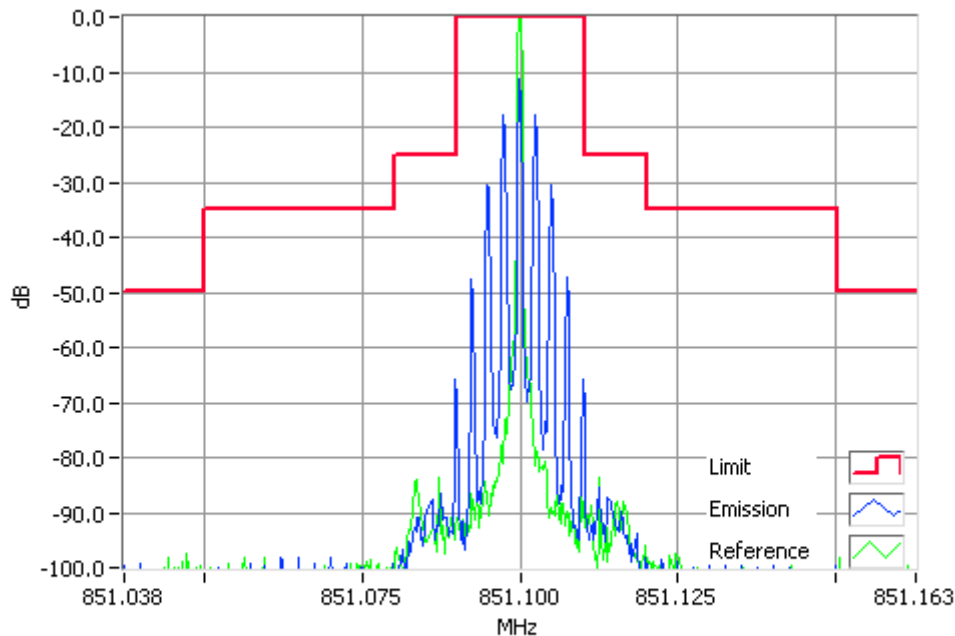
Analogue Modulation 851.1000MHz Mask B 50W
RBW=300Hz, VBW=3000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY:

851.1 MHz

5 W

12.5 kHz Channel Spacing



Analogue Modulation 851.1000MHz Mask B 5W
RBW=300Hz, VBW=3000Hz, Detector Mode=Peak
Result=Pass

Occupied Bandwidth and Spectrum Masks

SPECIFICATION:

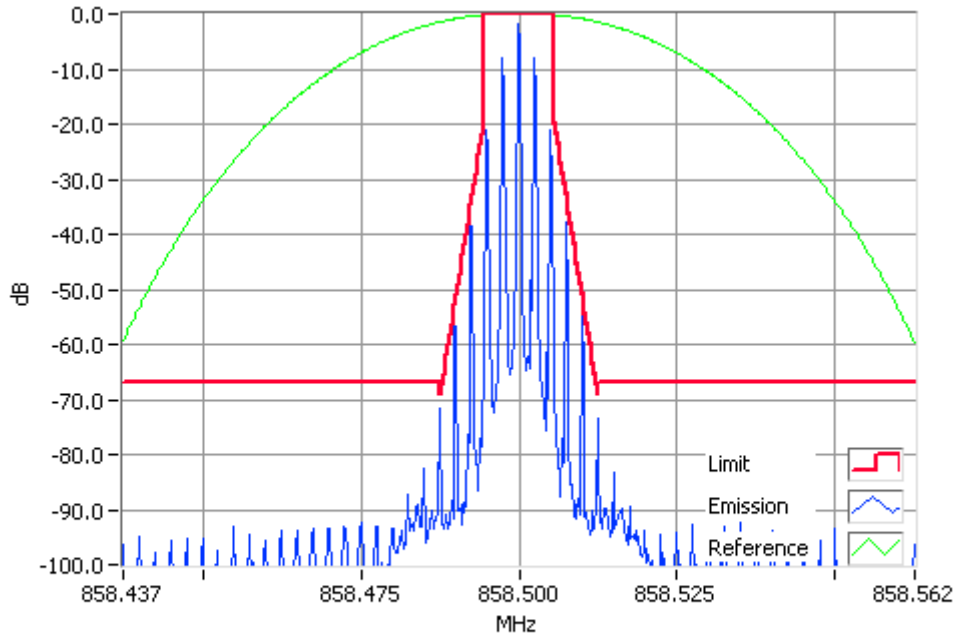
RSS-119 5.5

Tx FREQUENCY:

858.5 MHz

50 W

12.5 kHz Channel Spacing



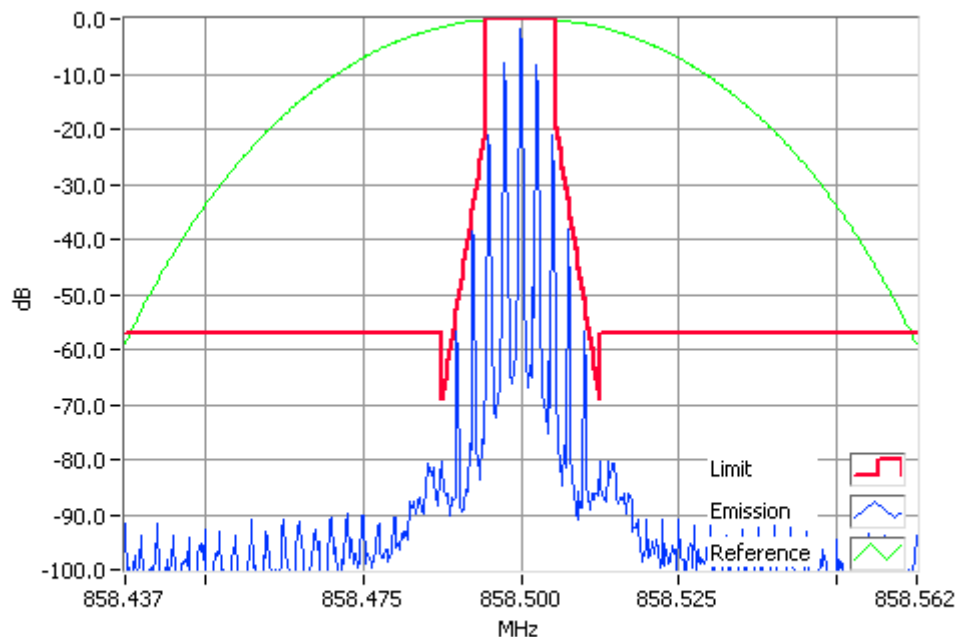
Analogue Modulation 858.5000MHz Mask D 50W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY:

858.5 MHz

5 W

12.5 kHz Channel Spacing



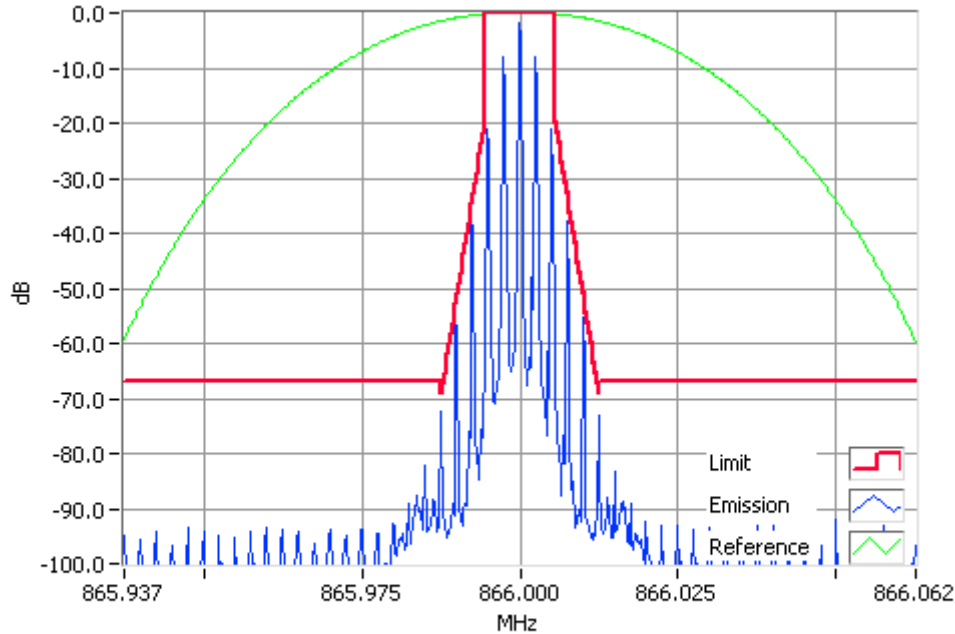
Analogue Modulation 858.5000MHz Mask D 5W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Occupied Bandwidth and Spectrum Masks

SPECIFICATION:

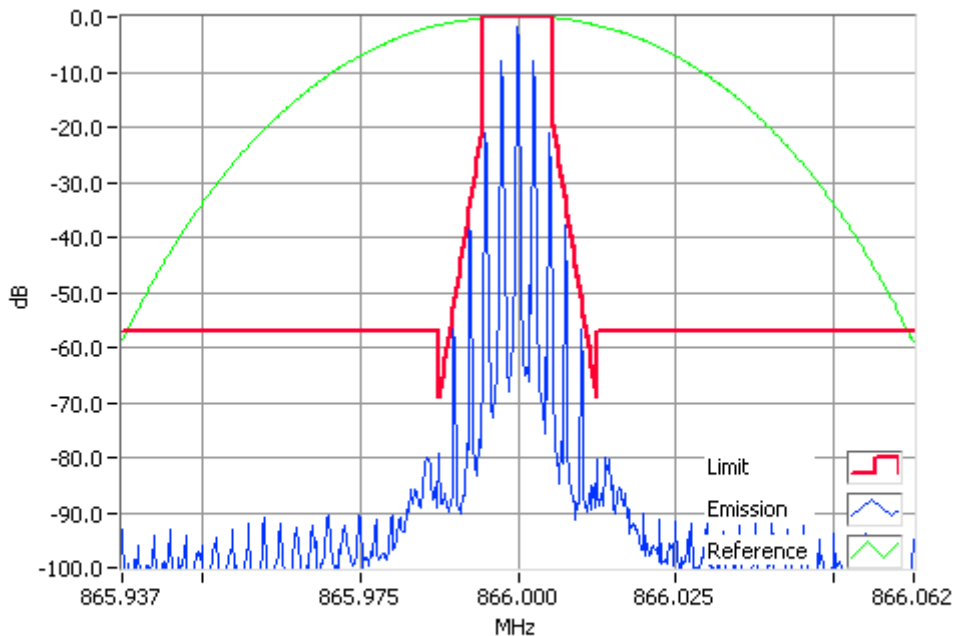
RSS-119 5.5

Tx FREQUENCY: 866.0 MHz 50 W 12.5 kHz Channel Spacing



Analogue Modulation 866.0000MHz Mask D 50W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY: 866.0 MHz 5 W 12.5 kHz Channel Spacing



Analogue Modulation 866.0000MHz Mask D 5W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Occupied Bandwidth and Spectrum Masks

SPECIFICATION:

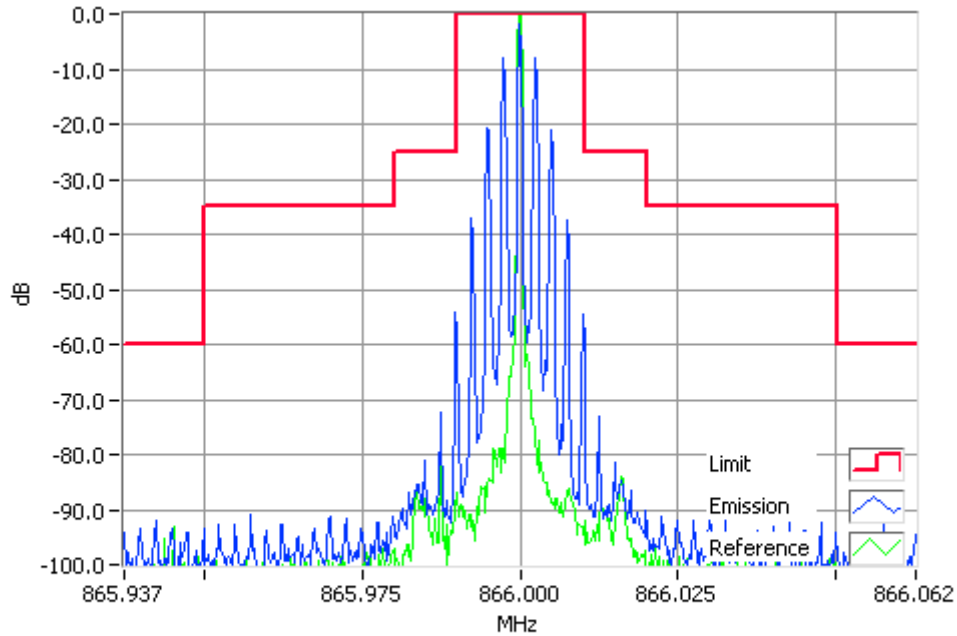
FCC CFR 2.1049 (c)

Tx FREQUENCY:

866.0 MHz

50 W

12.5 kHz Channel Spacing



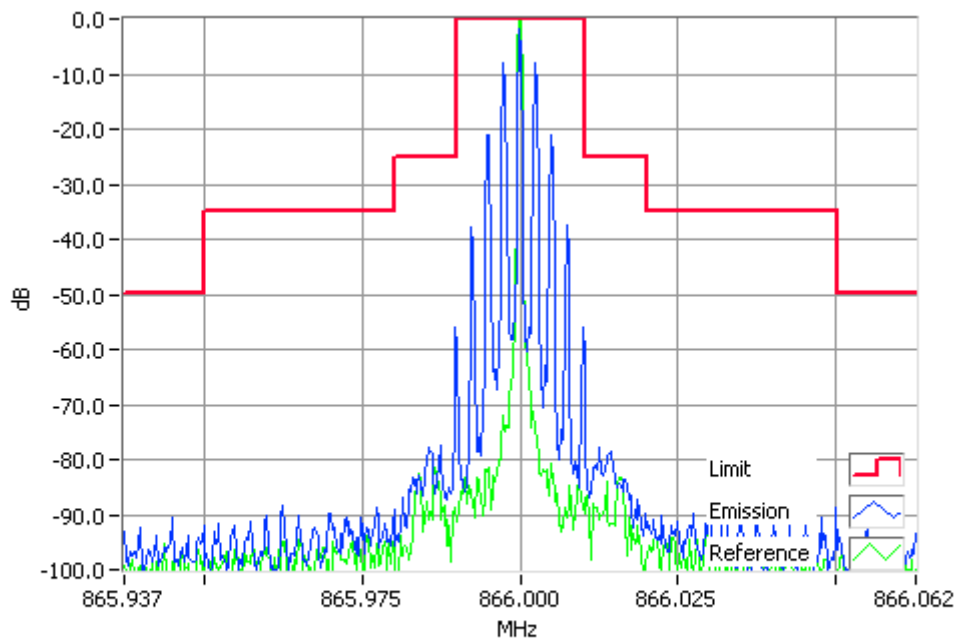
Analogue Modulation 866.0000MHz Mask B 50W
RBW=300Hz, VBW=3000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY:

866.0 MHz

5 W

12.5 kHz Channel Spacing



Analogue Modulation 866.0000MHz Mask B 5W
RBW=300Hz, VBW=3000Hz, Detector Mode=Peak
Result=Pass

Occupied Bandwidth and Spectrum Masks

SPECIFICATION:

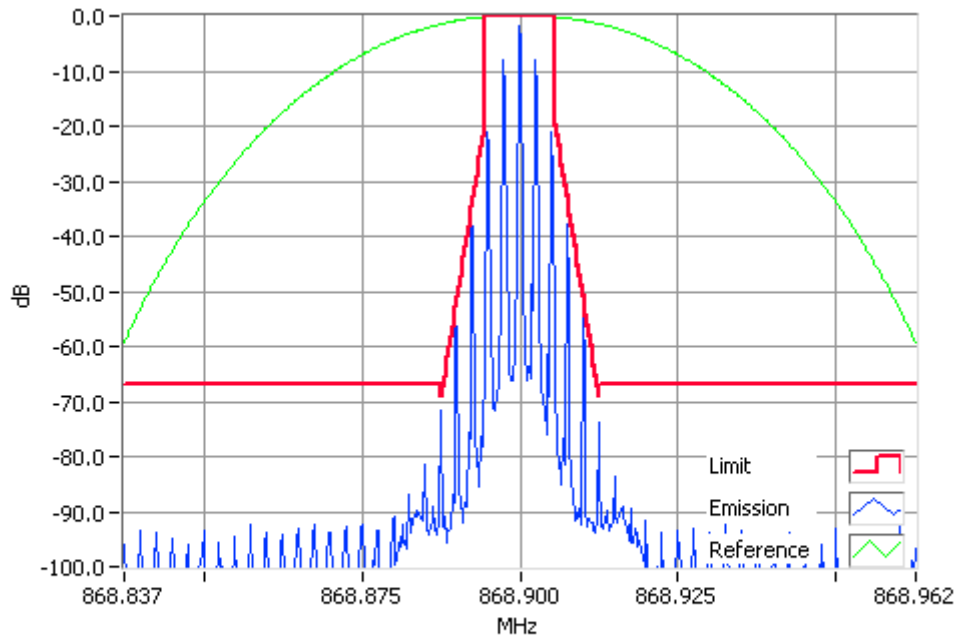
RSS-119 5.5

Tx FREQUENCY:

868.9 MHz

50 W

12.5 kHz Channel Spacing



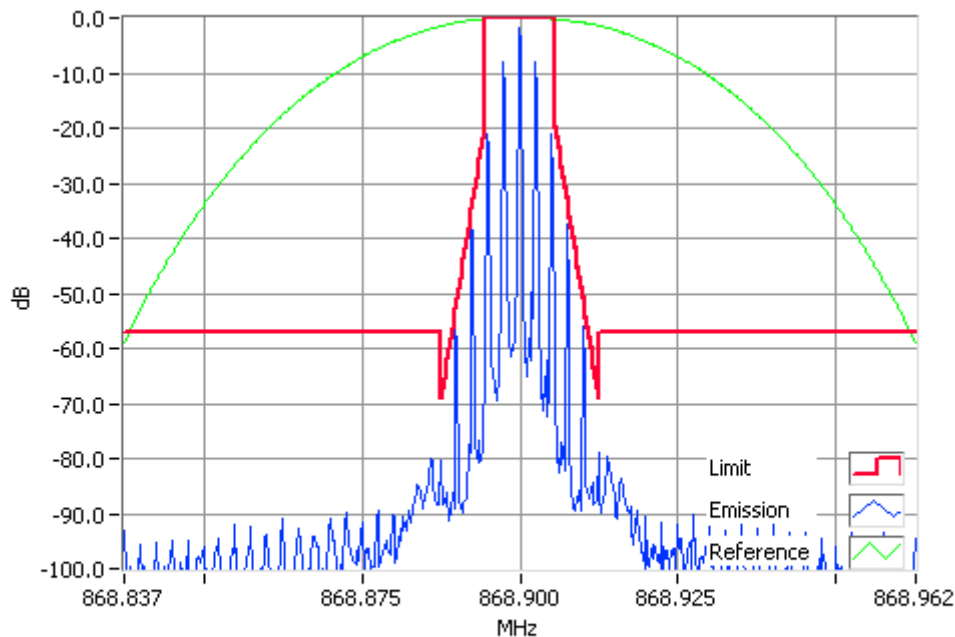
Analogue Modulation 868.9000MHz Mask D 50W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY:

868.9 MHz

5 W

12.5 kHz Channel Spacing



Analogue Modulation 868.9000MHz Mask D 5W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Occupied Bandwidth and Spectrum Masks

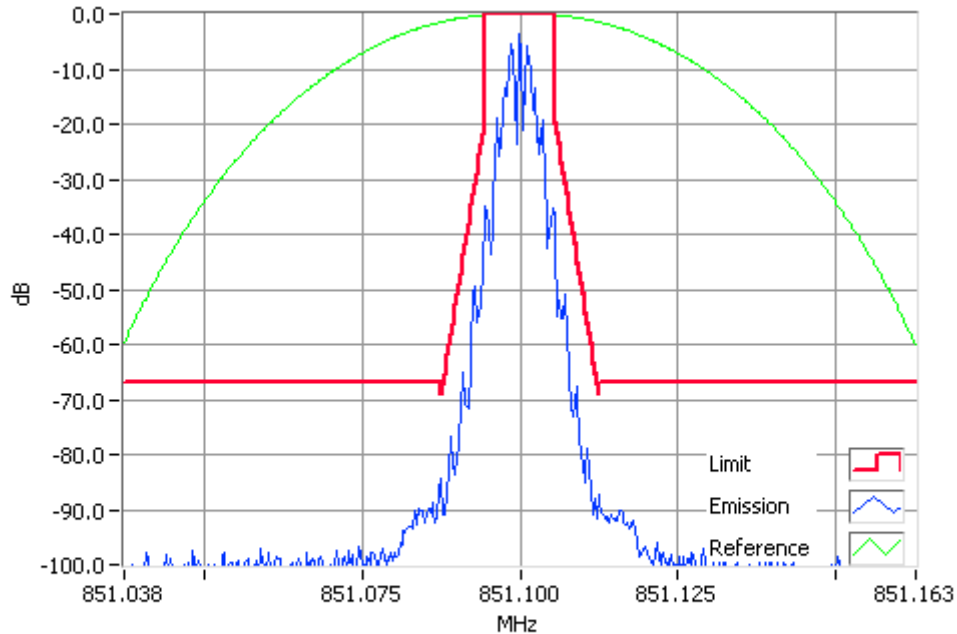
SPECIFICATION:

RSS-119 5.5

Tx FREQUENCY: 851.1 MHz

50 W

12.5 kHz Channel Spacing

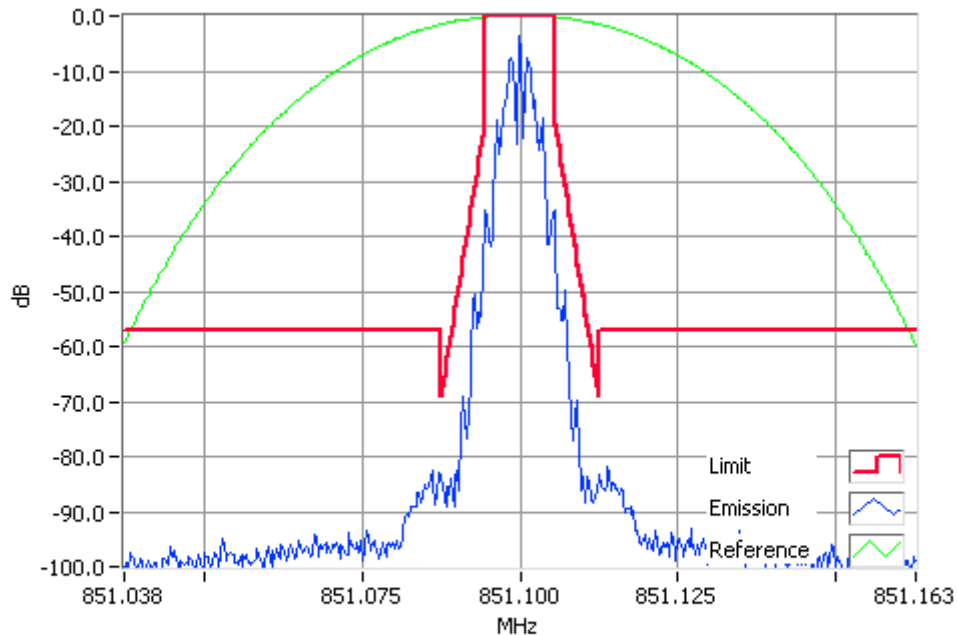


FFSK 851.1000MHz Mask D 50W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY: 851.1 MHz

5 W

12.5 kHz Channel Spacing



FFSK 851.1000MHz Mask D 5W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Occupied Bandwidth and Spectrum Masks

SPECIFICATION:

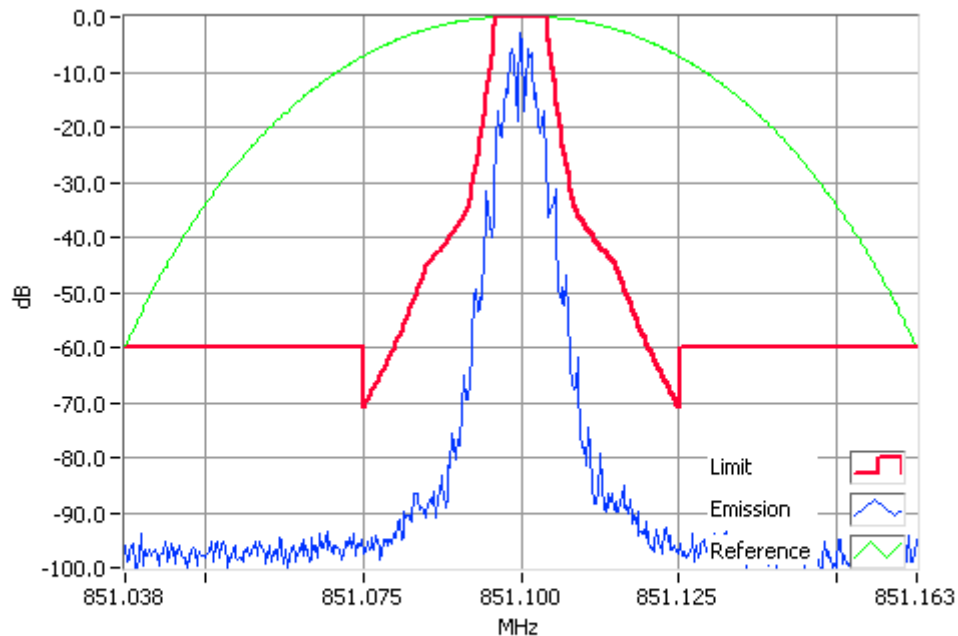
FCC CFR 2.1049 (c)

Tx FREQUENCY:

851.1 MHz

50 W

12.5 kHz Channel Spacing



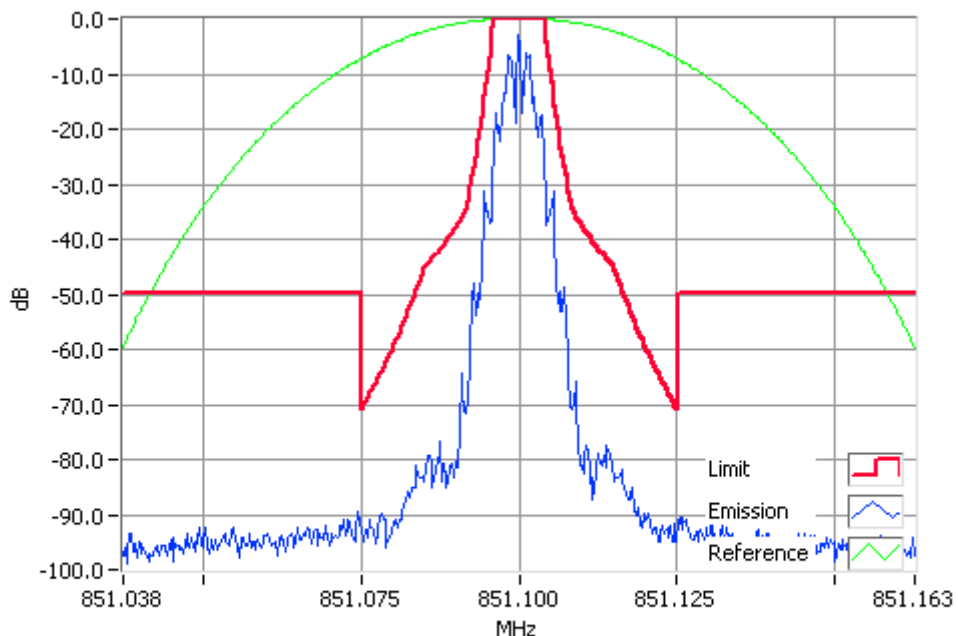
FFSK 851.1000MHz Mask H 50W
RBW=300Hz, VBW=3000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY:

851.1 MHz

5 W

12.5 kHz Channel Spacing



FFSK 851.1000MHz Mask H 5W
RBW=300Hz, VBW=3000Hz, Detector Mode=Peak
Result=Pass

Occupied Bandwidth and Spectrum Masks

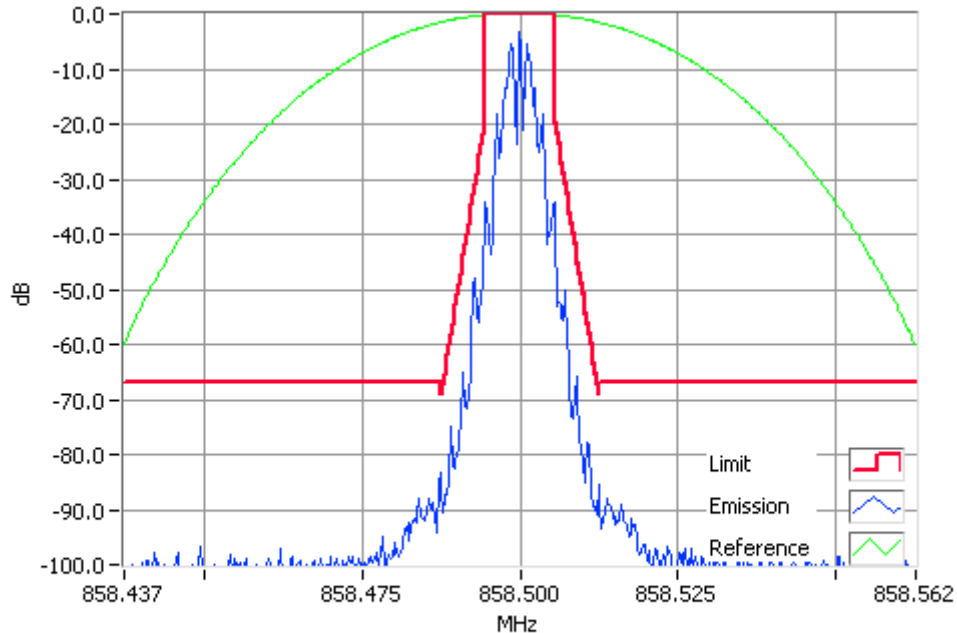
SPECIFICATION:

RSS-119 5.5

Tx FREQUENCY: 858.5 MHz

50 W

12.5 kHz Channel Spacing

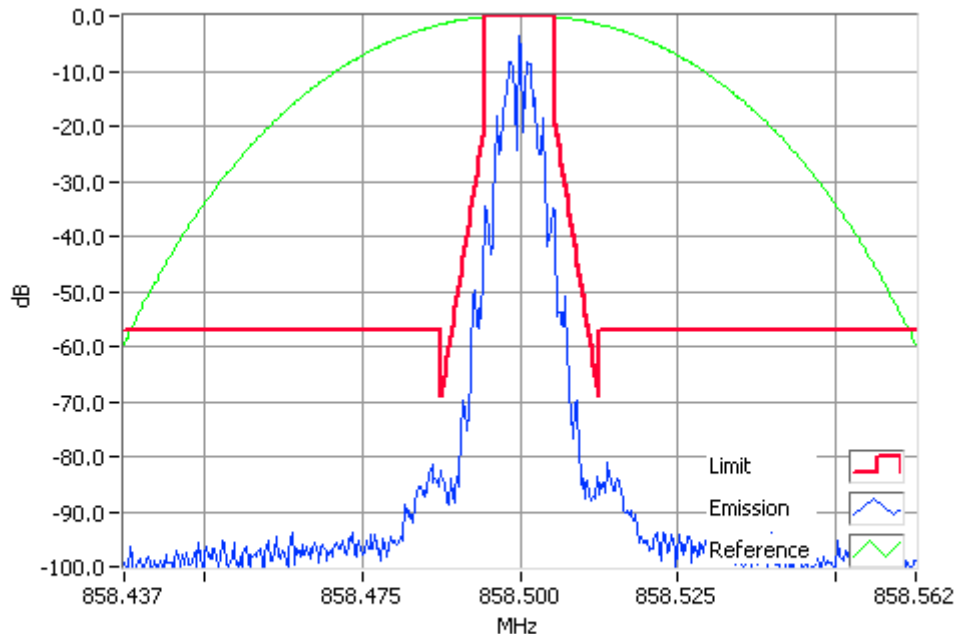


FFSK 858.5000MHz Mask D 50W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY: 858.5 MHz

5 W

12.5 kHz Channel Spacing



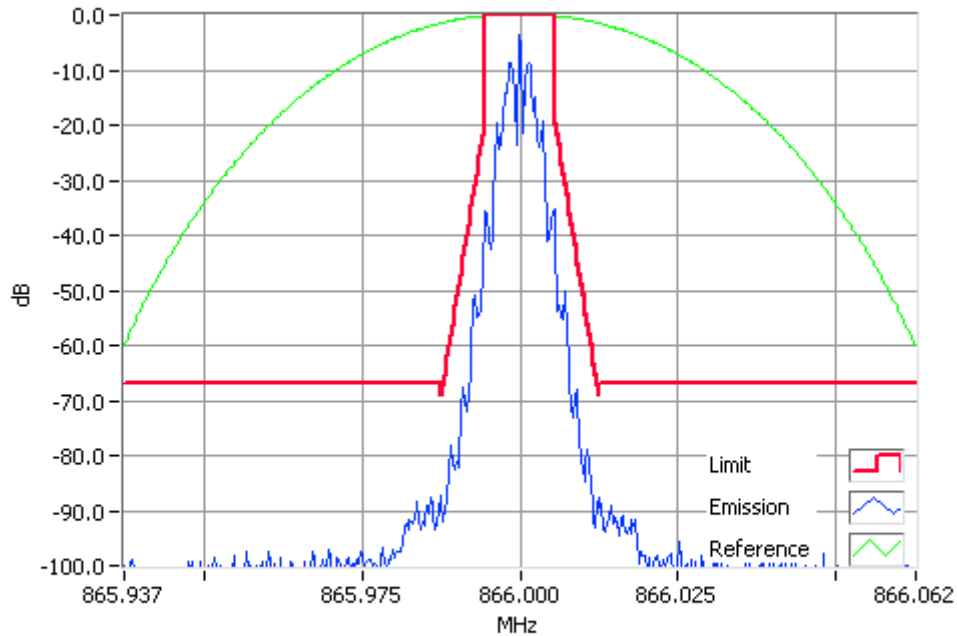
FFSK 858.5000MHz Mask D 5W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Occupied Bandwidth and Spectrum Masks

SPECIFICATION:

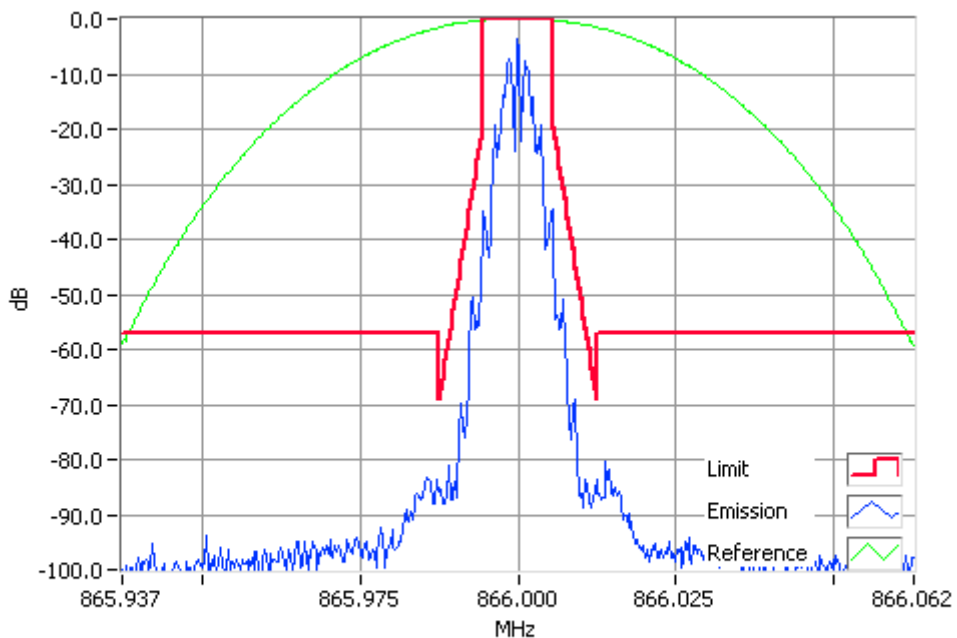
RSS-119 5.5

Tx FREQUENCY: 866.0 MHz 50 W 12.5 kHz Channel Spacing



FFSK 866.0000MHz Mask D 50W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY: 866.0 MHz 5 W 12.5 kHz Channel Spacing



FFSK 866.0000MHz Mask D 5W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Occupied Bandwidth and Spectrum Masks

SPECIFICATION:

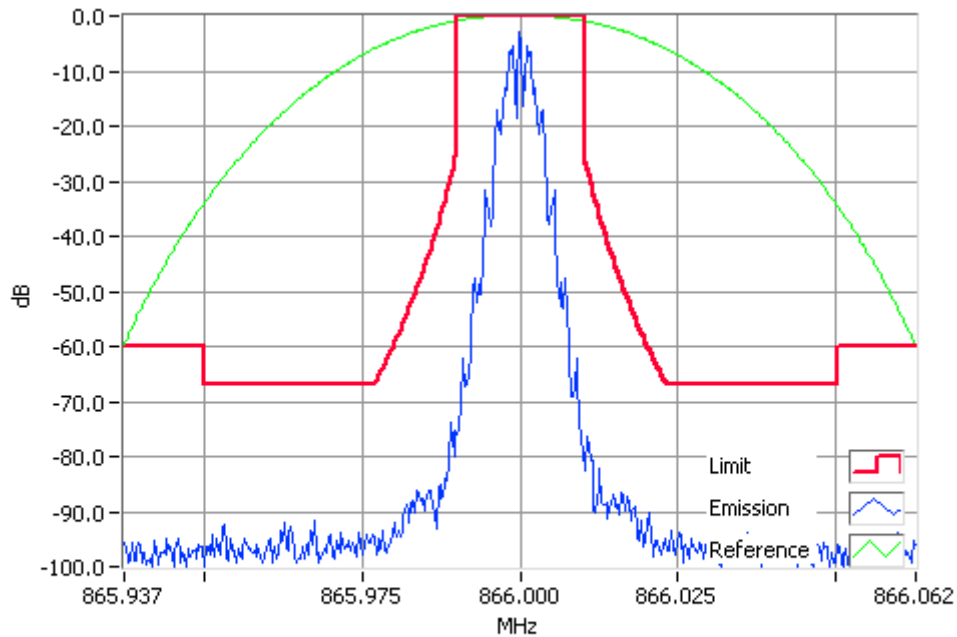
FCC CFR 2.1049 (c)

Tx FREQUENCY:

866.0 MHz

50 W

12.5 kHz Channel Spacing



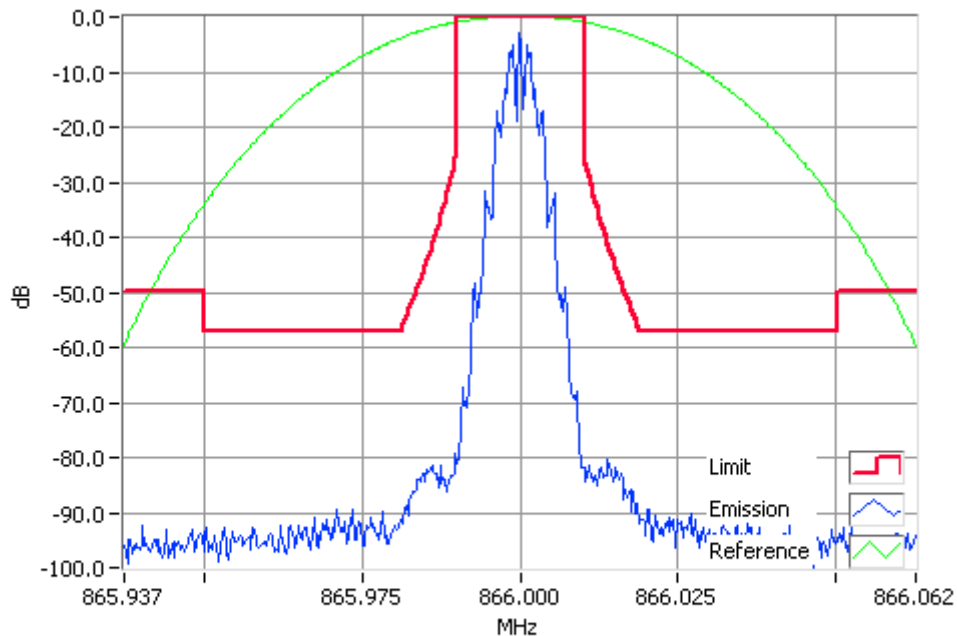
FFSK 866.0000MHz Mask G 50W
RBW=300Hz, VBW=3000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY:

866.0 MHz

5 W

12.5 kHz Channel Spacing



FFSK 866.0000MHz Mask G 5W
RBW=300Hz, VBW=3000Hz, Detector Mode=Peak
Result=Pass

Occupied Bandwidth and Spectrum Masks

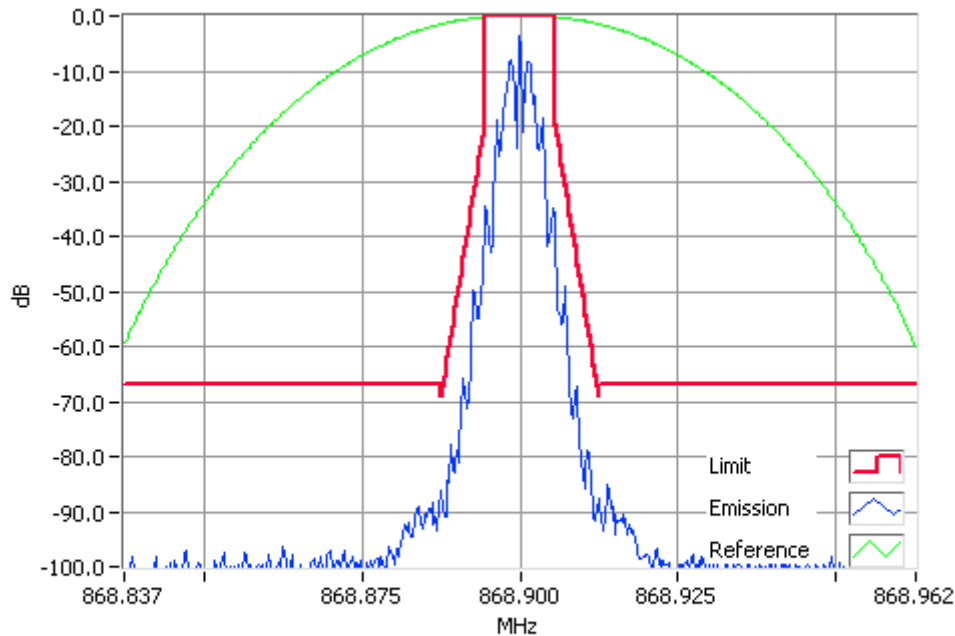
SPECIFICATION:

RSS-119 5.5

Tx FREQUENCY: 868.9 MHz

50 W

12.5 kHz Channel Spacing

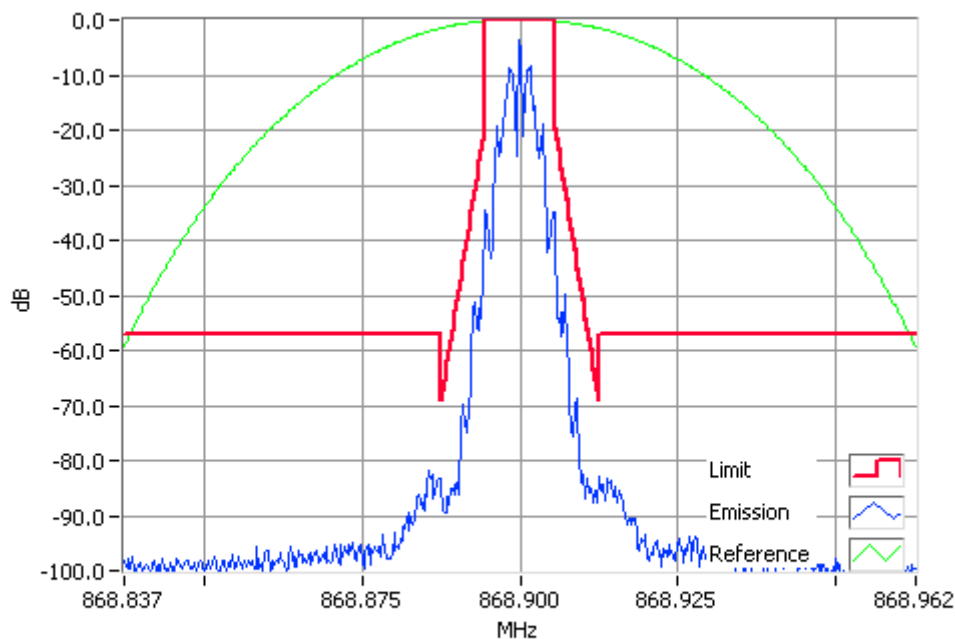


FFSK 868.9000MHz Mask D 50W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY: 868.9 MHz

5 W

12.5 kHz Channel Spacing



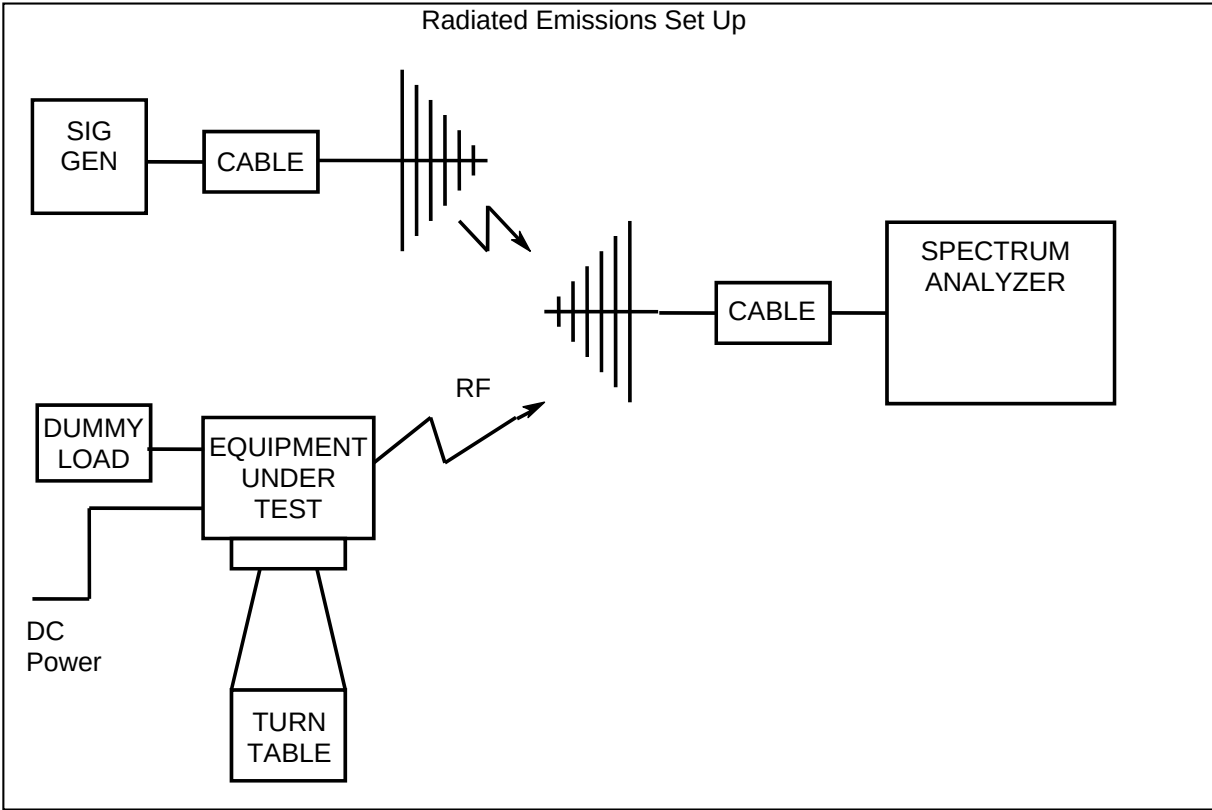
FFSK 868.9000MHz Mask D 5W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

TEST EQUIPMENT LIST

NOTE: Items without calibration dates are calibrated immediately before use, or set using calibrated instruments.

Equipment Type	Information	Manufacturer	Model No	Serial No#	Tait ID	Cal Due
Modulation Analyser	TREVA1	Hewlett Packard	HP8901B (Opt 002)	2441A00393	E3073	21-Oct-16
Audio Analyser	TREVA1	Hewlett Packard	HP8903A	2437A04625	E4986	21-Oct-16
Power Supply	AC Variac	Yamabishi	S-260-5	TX-533	E1737	
Spectrum Analyser	26.5GHz	Agilent	PXA N9030A	MY49432161	E4907	29-Oct-16
Coax Cable	2m Black	Suhner	RG214HF/Nm/Nm/2000	TeltestBlack2	E4623	18-Oct-16
Coax Cable	2m Black	Suhner	RG214HF/Nm/Nm/2000	TeltestBlack4	E4653	16-Oct-16
RF Combiner	TREVA1	Minicircuits	ZFSC-4-1	-	E4083	
RF Attenuator	30dB 350W	Weinschel	67-30-33	BR0531	E4280	18-Oct-16
TREVA 1		Teltest	-	1	-	14-Nov-16

ANNEX A – TEST SETUP DETAILS



All other testing is performed using the Teltest Radio **EVA**luation system (TREVA), which is configured as shown below. The Spectrum Analyser is connected to the EUT via the attenuator network for Conducted Emissions testing, and Occupied Bandwidth.

